TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Index Of Sheets

(SEE SHEET NO. 1A)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ROBERTSON-SUMNER COUNTIES

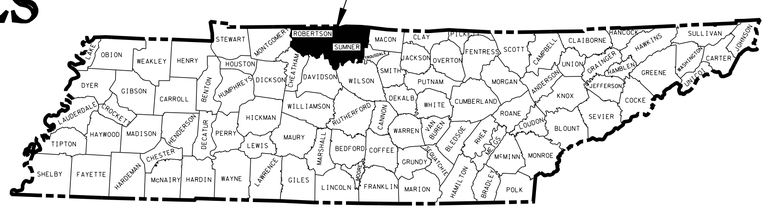
INTERSTATE 65 INTERCHANGE @ STATE ROUTE 109
INCLUDING I-65 WIDENING AND
S.R. 109 EXTENSION

CONSTRUCTION
GRADE, DRAIN, PAVE, BRIDGE, & SIGN

STATE HIGHWAY NO. 109 F.A.H.S. NO. I-65

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	STP/HPP/NH-I-65-3(113)	
STATE PROJ. NO.	ROBERTSON I-65/SR-109 : 74003-3164-44 SUMNER I-65/SR-109: 83001-3143-44 ROBERTSON SR-41 (US-31W): 74096-3201-14 SUMNER SR-41 (US-31W): 83008-3229-14 KENTUCKY I-65: 74003-3168-44	

PROJECT LOCATION



74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65

END PROJ. NO. 74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 74003-3168-44 CONST. SIMPSON CO. KY.
STA. 1881+83.78 I-65

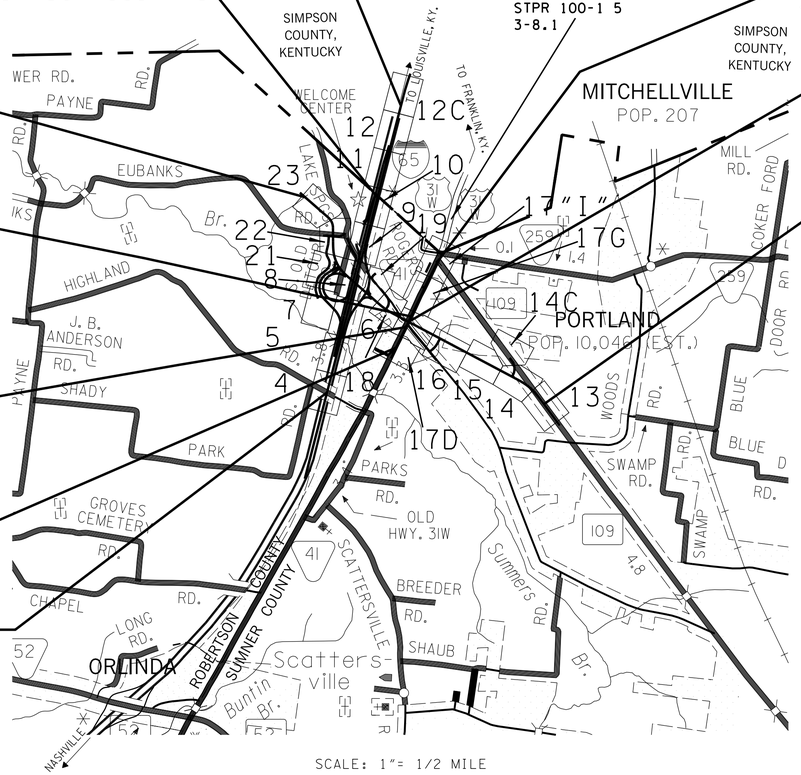
END PROJ. NO. 74003-3164-44
CONST. ROBERTSON CO.
S.R. 109 STA. 420+82.37

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
I-65 STA. 1813+29.95



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83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.

END PROJ. NO. 83001-3143-44
CONST. SUMNER CO.
BEGIN PROJ. NO. 74003-3164-44
CONST. ROBERTSON CO.
STA. 362+36.28 S.R. 109
BEGIN PROJ. NO. 83001-3143-44
CONST. SUMNER CO.
S.R. 109 STA. 308+00.00

NO EXCLUSIONS
NO EQUATIONS

SURVEY DATE: 09/22/2011

I-65 TRAFFIC DATA	
ADT (2014)	56,560
ADT (2034)	89,300
DHV (2034)	10,153
D	55 - 45
T (ADT)	29 %
T (DHV)	19 %
V	70 MPH
SR-109 TRAFFIC DATA	
ADT (2014)	10,300
ADT (2034)	19,260
DHV (2034)	2,478
D	50 - 50
T (ADT)	16 %
T (DHV)	11 %
V	70 MPH

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SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
ARCHITECTURE
COMMERCE
No. 107336
STATE OF TENNESSEE

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER
DATE:
APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED FEBURARY 4, 2014 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT DESIGN MANAGER 1 FREDRICK MILLER, P.E.
DESIGNED BY PALMER ENGINEERING COMPANY
DESIGNER BRIAN LEE, P.E. CHECKED BY TODD KEMP, P.E.
P.E. NO. ROBERTSON : 74003-1160-44
SUMNER : 83001-1140-44
PIN 107338.00

ROBERTSON COUNTY	
ROADWAY LENGTH - I-65	1.298 MILES
ROADWAY LENGTH - S.R. 109	1.041 MILES
BRIDGE LENGTH - S.R. 109	0.066 MILES
•BOX BRIDGE LENGTH	0.024 MILES
PROJECT LENGTH	2.405 MILES
•NOT INCLUDED IN THE PROJECT LENGTH	

SUMNER COUNTY	
ROADWAY LENGTH - S.R. 109	1.030 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	1.030 MILES

SIMPSON COUNTY, KY	
ROADWAY LENGTH - I-65	0.609 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.609 MILES

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	1A

INDEX

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DWG. NO	REV.	DESCRIPTION
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STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' – 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
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STD-17-18		BACKFILL DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-23		SIDEWALK AND MISCELLANEOUS DETAILS
STD-17-24		WARPED SLOPE DETAIL
STD-17-25		STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-6")
STD-17-26		EXTENSION DETAILS
STD-17-27		EXTENSION DETAILS FOR SCOURED OUTLET
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-51		BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL
STD-17-63		BOX BRIDGE, 1 BARREL AT 16', CLEAR HTS. 9' - 12', 0 - 60' FILL
STD-17-65		BOX BRIDGE, 1 BARREL AT 18', CLEAR HTS. 6' - 8', 0 - 60' FILL
STD-17-66		BOX BRIDGE, 1 BARREL AT 18', CLEAR HTS. 9' - 11', 0 - 60' FILL
STD-17-80		BOX BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 8' - 11', 0 - 60' FILL
STD-17-103		BOX BRIDGE, 3 BARRELS AT 16', CLEAR HTS. 9' - 12', 0 - 60' FILL
STD-17-108		BOX BRIDGE, 3 BARRELS AT 18', CLEAR HTS. 15' - 18', 0 - 60' FILL

ROADWAY DESIGN STANDARDS

DWG. NO	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN & SLOPE PROTECTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH DEPRESSED MEDIANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	1A1

STANDARD ROADWAY DRAWINGS

RD01-TS-2B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RD01-TS-7	10-15-02	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RD01-TS-7A	10-15-02	DESIGN STANDARDS 2-LANE CURB & GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE

DRAINAGE - CULVERTS AND ENDWALL

D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-4	01-15-13	STRAIGHT CONCRETE ENDWALL
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
D-PE-18A	06-14-13	18” CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRETE ENDWALL CROSS DRAIN
D-PE-24A	06-14-13	24” CONCRETE ENDWALL CROSS DRAIN
D-PE-24B		24” CONCRETE ENDWALL CROSS DRAIN
D-PE-30A	06-14-13	30” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36A	06-14-13	36” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42A	06-14-13	42” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42B		42” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48B		48” CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR “U” ENDWALLS CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE
D-SEW-1A	06-14-13	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES - 12:1 SLOPE

DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-25LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 25LP CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-31SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-38RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-39S	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-46SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 46 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-99	06-07-13	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, & 17 TYPE CATCH BASINS
D-CBB-12B	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 6" MOUNTABLE INLET DETAILS FOR NOS. 25, 26 & 27 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
D-JBS-3	08-01-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 3 JUNCTION BOX
D-MH-2	08-01-12	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-21-14	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-3A	08-01-12	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE (96" AND 108" DIA.)
D-MH-4	04-01-14	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-TD-1		TRENCH DRAIN

ROADWAY AND PAVEMENT APPURTENANCES

RP-CS-1	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 4-LANE DIVIDED HIGHWAY)
RP-CS-2	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 6-LANE OR WIDER DIVIDED HIGHWAY)
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
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RP-H-4	06-04-13	PERPENDICULAR CURB RAMP
RP-H-6	04-13-11	MEDIAN CROSSING
RP-H-7	06-04-13	PERPENDICULAR CURB RAMP TYPE 1
RP-H-8	06-04-13	PERPENDICULAR CURB RAMP TYPE 2
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	07-01-01	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	01-30-12	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	07-29-96	3/4" AND 1-3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	03-20-91	3/4" AND 1-3/4" ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-J-17	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-18	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-19	02-02-12	DOWEL ASSEMBLY DEVICES
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-S-7	06-04-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS

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S-F-10B	05-14-2010	STANDARD RIGHT-OF-WAY FENCE
S-F-10C	05-14-2010	STANDARD RIGHT-OF-WAY FENCE WITH TIMBER POSTS
S-F-10D		RIGHT-OF-WAY FENCE LOCATIONS AT INTERCHANGE
S-FG-20	01-24-08	EXAMPLES OF WATER GATES AND WATER CROSSINGS
S-RP-2	01-19-1999	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-PL-3		SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-4	04-11-14	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE

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SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	1A2

STANDARD ROADWAY DRAWINGS

S-PL-6		SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-CC-1		CRASH CUSHION
S-GR31-1		W-BEAM GUARDRAIL
S-GR31-2		MEDIAN DIVIDER GUARDRAIL
S-GRS-1		SPECIAL CASE LONG SPAN GUARDRAIL, ONE SPAN OMITTED
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-3		SPECIAL CASE GUARDRAIL FOOTING
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRC-2	04-11-14	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW-VOLUME LOCAL ROADS (ADT<= 400)
S-GRC-3		MEDIAN DIVIDER GUARDRAIL TRANSITION TO CONCRETE MEDIAN BARRIER
S-GRT-1		TYPE 12 GUARDRAIL TERMINAL BURIED-IN-BACKSLOPE
S-GRT-2		TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 TERMINAL (RETROFIT)
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-GRT-4		TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-GRA-1		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS
S-SSMB-1	08-19-2013	32" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-2	08-19-2013	51" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-3	07-16-2013	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-4	07-30-2010	FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL (VERTICAL BACK)
S-SSMB-5		SINGLE SLOPE MEDIAN BARRIER WALL CATCH BASIN DETAIL
S-SSMB-6	10-24-2013	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-7	12-04-2013	FOOTING DETAIL FOR OVERHEAD SIGN STRUCTURES 32" BARRIER WALL
S-SSMB-8	12-04-2013	FOOTING DETAIL FOR OVERHEAD SIGN STRUCTURES 51" BARRIER WALL
S-SSMB-9	07-16-2013	SINGLE SLOPE BARRIER WALL FOR GRADE SEPARATED MEDIAN

TRAFFIC CONTROL APPURTENANCES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-FO-1		FIBER OPTIC AERIAL ENTRANCE DETAILS
T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS
T-FO-3		FIBER OPTIC AERIAL CONNECTION DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS
T-L-1	12-04-13	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	09-11-13	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-1TM		STANDARD LIGHTING DETAILS TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	11-01-11	MARKING DETAILS FOR RAMP INTERSECTIONS
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-15A	11-01-11	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	11-01-11	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	05-27-03	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-21	02-28-13	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-S-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-S-23B	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-19-13	BREAKAWAY U-POST SIGN SUPPORTS
T-S-24	08-02-13	DETAILS OF SIGN WITH SOLAR FLASHING ASSEMBLY
T-SG-2	07-29-04	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A		ALTERNATE DETECTION DETAILS
T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	12-04-13	CONTROLLER CABINET DETAILS
T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-8	12-04-13	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9A	12-04-13	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	12-04-13	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-13-09	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-36	04-02-12	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
T-WZ-55		SIDEWALK TRAFFIC CONTROL

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-8	08-01-12	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)

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INDEX AND STANDARD DRAWINGS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
	ENVIRONMENTAL	THE PROJECT WILL BE DEVELOPED IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION'S (TDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CONSTRUCTION IMPACTS, UTILITY RELOCATION; AND TRAFFIC MAINTENANCE AND DETOURS. BEST MANAGEMENT PRACTICES (BMPs) WILL BE STRINGENTLY IMPLEMENTED THROUGHOUT THE CONSTRUCTION PERIOD.	ENTIRE PROJECT
	ENVIRONMENTAL	TDOT COMMITS TO PERFORM PHASE II PRELIMINARY SITE INVESTIGATION ON TRACT 20, PRIOR TO RIGHT-OF-WAY ACQUITION FOR TRACT 20.	363+00 LT, S.R. 109
	ENVIRONMENTAL	AS A CONDITION OF KY US FISH AND WILDLIFE SERVICE CONCURRENCE THAT THE INDIANA BAT WILL NOT BE ADVERSELY AFFECTED BY THE PROJECT, TDOT WILL PROVIDE A SPECIAL NOTE IN CONSTRUCTION PLANS THAT WILL READ "CUTTING OF TREES WITHIN THE KENTUCKY PORTION OF PROJECT 107338.00 IS PROHIBITED DURING THE PERIOD OF APRIL 1 TO OCTOBER 14."	1881+00 TO 1905+00 LT & RT, I-65
	ENVIRONMENTAL	IF THE PROJECT SHOULD CHANGE AND ANY ROW OR EASEMENTS ARE SHIFTED TO THE SOUTHEAST, TDOT WILL REVIEW IMPACTS TO THE NATIONAL REGISTER DUVALL HOUSE AS REQUESTED BY THE TN STATE HISTORIC PRESERVATION OFFICE (TN SHPO).	

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PROJECT COMMITMENTS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	1A3

STANDARD ROADWAY DRAWINGS

EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-43		CATCH BASIN FILTER ASSEMBLY (TYPE 3)
EC-STR-43A		CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)
EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.2	0.2	0.2	0.2	0.2	1
	201-01	CLEARING AND GRUBBING	LS	0.2	0.2	0.2	0.2	0.2	1
(1)	202-02.01	REMOVAL OF PIPE (24" CMP, STA. 90+83.05 SR-109 TIE)	L.F.		49				49
(1)	202-02.02	REMOVAL OF PIPE (30" RCP, STA. 1131+35.23 SR-41 LT)	L.F.			34	59		93
(1)	202-02.04	REMOVAL OF PIPE (18" RCP, STA. 81+03.15 FRED WHITE)	L.F.	61					61
(1)	202-02.05	REMOVAL OF PIPE (30"X19" HOCP, STA. 82+24.68 FRED WHITE)	L.F.	65					65
(1)	202-02.06	REMOVAL OF PIPE (48" CMP, STA. 35+07.34 S. OLD DETOUR)	L.F.	133					133
(1)	202-02.07	REMOVAL OF PIPE (48" RCP, STA. 1865+99.18 I-65)	L.F.	360					360
(1)	202-02.08	REMOVAL OF PIPE (48" RCP, STA. 499+64.34 RAMP I)	L.F.	127					127
(1)	202-02.09	REMOVAL OF PIPE (24" PLASTIC, 35+04.41 S. OLD DETOUR)	L.F.	16					16
(1)	202-02.10	REMOVAL OF PIPE (30" PLASTIC, 35+06.79 S. OLD DETOUR)	L.F.	16					16
(1)	202-02.11	REMOVAL OF PIPE (42" RCP, STA. 1852+19.54 I-65)	L.F.	174					174
(18)	202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 2)	LS		1				1
(18)	202-06.02	REMOVAL OF BUILDINGS (TRACT NO. 27)	LS	1					1
(18)	202-06.03	REMOVAL OF BUILDINGS (TRACT NO. 29)	LS	1					1
(18)	202-06.04	REMOVAL OF BUILDINGS (TRACT NO. 32)	LS	1					1
(18)	202-06.05	REMOVAL OF BUILDINGS (TRACT NO. 52K)	LS					1	1
(18)	202-06.06	REMOVAL OF BUILDINGS (TRACT NO. 12)	LS		1				1
(18)	202-06.07	REMOVAL OF BUILDINGS (TRACT NO. 33)	LS	1					1
(18)	202-06.08	REMOVAL OF BUILDINGS (TRACT NO. 34)	LS	1					1
	202-08.10	REMOVAL OF CURB (DESCRIPTION)	L.F.	575					575
	202-08.15	REMOVAL OF CURB AND GUTTER (DESCRIPTION)	L.F.	1150					1150
	202-08.28	REMOVAL OF MEDIAN BARRIER (EXISTING I-65 MEDIAN BARRIER)	L.F.	251				81	332
(6)(10)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	135289	76950	4277	3405	4378	224299
5)(7)(10)	203-02.02	BORROW EXCAVATION (GRADED SOLID ROCK)	C.Y.	13584					13584
(10)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	831988	48658		1574	10268	892488
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	29687	8031			846	38564
	203-05	UNDERCUTTING	C.Y.	7658					7658
(21)	204-08	FOUNDATION FILL MATERIAL	C.Y.	497	111				608
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	12018	1083			51	13152
(2)	209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	260	52				312
(2)	209-05	SEDIMENT REMOVAL	C.Y.	3433	888	91	89	101	4602
(2)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	6479	5157			298	11934
(2)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	19288	3470	5730	5449	3759	37696
(2)	209-08.07	ROCK CHECK DAM	EACH	120	15			8	143
(2)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	135	28	5	3	11	182
(2)	209-08.09	FILTER SOCK CHECK DAM	EACH	243	65			5	313
(2)	209-09.01	SANDBAGS	BAG	3612					3612
(2)(3)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	25	21				46
(2)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	28	10	16	15		69
(2)	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	939					939
(2)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	40					40
(2)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	32	6		2		40
(2)	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	37	9		1	5	52
(2)	209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	1	3				4
(2)	209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EACH		1	2			3
(2)	209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	15		1			16
(2)	209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	3	2	11	10		26
(2)	209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	1	2	1	1		5
(2)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	538					538
(2)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	182					182
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	4196	984				5180
(34)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	227	92	5		4	328
	303-10.03	MINERAL AGGREGATE (SIZE 68)	TON	1229					1229
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	22960	280	2428	2428	4856	32952
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	5				1	6
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	1	2				3
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.		1				1
(27)	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	1176	35	281	233	340	2065

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ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
(22)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	1285	314				1599
(23)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	268818	61453				330271
(24)	606-24.13	TEMPORARY SHEET PILES	LS	1					1
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	3209	671	1738	1694	497	7809
	607-03.03	18" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	92					92
	607-03.05	18" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	474					474
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	414	64	158	32		668
	607-05.05	24" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.			33			33
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.		170	18			188
	607-06.03	30" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	405					405
	607-06.04	30" CONCRETE PIPE CULVERT (CLASS V)	L.F.	300					300
	607-06.05	30" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	44	56				100
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	914	98				1012
	607-07.03	36" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	178					178
	607-07.05	36" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	179	33				212
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	102					102
	607-09.05	48" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	208					208
	607-16.01	23"X 14" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	76		30			106
	607-16.04	38"X 24" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.		46				46
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	224	168	232	122		746
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.		108				108
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F.		40				40
	607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.		38				38
(11)	610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	370					370
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	2					2
	611-02.10	JUNCTION BOX, TYPE 1	EACH	2				2	4
	611-05.01	TRENCH DRAINS	L.F.	420	105				525
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	62	11	4	4		81
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1837	377	120	120		2454
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	4	1				5
	611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	2					2
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	1				1	2
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	7	2			1	10
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	4	3			1	8
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	1	2				3
	611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	3					3
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH			1			1
	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	2					2
	611-07.62	30IN ENDWALL (CROSS DRAIN) 6:1	EACH	1					1
	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	2					2
	611-07.64	36IN ENDWALL (CROSS DRAIN) 4:1	EACH		3				3
	611-07.65	36IN ENDWALL (CROSS DRAIN) 6:1	EACH	1	1				2
	611-07.68	42IN ENDWALL (CROSS DRAIN) 6:1	EACH	2					2
	611-07.71	48IN ENDWALL (CROSS DRAIN) 6:1	EACH	1					1
	611-07.73	18IN ENDWALL (MEDIAN DRAIN)	EACH		2				2
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	5		9	10		24
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH			3	1		4
	611-14.01	CATCH BASINS, TYPE 14, 0' - 4' DEPTH	EACH				1		1
	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH			3	2		5
	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1	1				2
	611-25.01	CATCH BASINS, TYPE 25, 0' - 4' DEPTH	EACH	18					18
	611-25.02	CATCH BASINS, TYPE 25, > 4' - 8' DEPTH	EACH	9					9
	611-25.03	CATCH BASINS, TYPE 25, > 8' - 12' DEPTH	EACH	2					2
	611-26.02	CATCH BASINS, TYPE 26, > 4' - 8' DEPTH	EACH	1					1
	611-31.02	CATCH BASINS, TYPE 31, > 4' - 8' DEPTH	EACH	14				1	15
	611-31.03	CATCH BASINS, TYPE 31, > 8' - 12' DEPTH	EACH	2					2
	611-31.04	CATCH BASINS, TYPE 31, > 12' - 16' DEPTH	EACH					1	1
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	1	2				3
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	1	1				2
	611-38.06	CATCH BASINS, TYPE 38, > 20' - 24' DEPTH	EACH	1					1
	611-39.01	CATCH BASINS, TYPE 39, 0' - 4' DEPTH	EACH	1	1				2
	611-39.02	CATCH BASINS, TYPE 39, > 4' - 8' DEPTH	EACH		1				1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	2	2			3	7
	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	7	2				9
	611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	EACH	1					1
	611-46.02	CATCH BASINS, TYPE 46, > 4' - 8' DEPTH	EACH	1					1

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BRIAN T. LEE
REGISTERED ENGINEER
AGRICULTURE
TRANSPORTATION
COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	38					38
	701-01.01	CONCRETE SIDEWALK (4")	S.F.	421		14695	14310		29426
(20)	701-01.02	CONCRETE SIDEWALK (6")	S.F.			1849	2349		4198
	701-02	CONCRETE DRIVEWAY	S.F.	613		1449			2062
	701-02.03	CONCRETE HANDICAP RAMP	S.F.	210	280	152			642
	701-03	CONCRETE MEDIAN PAVEMENT	C.Y.		21				21
	702-01	CONCRETE CURB	C.Y.	386	23				409
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	146	31	244	244		665
	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	54	19				73
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	162					162
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	9868	763				10631
	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	16	2				18
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	13	2				15
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	3	4				7
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	18	2				20
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	6		3	3	0	12
	705-17.97	ATTENUATOR (NARROW- LOW MAINTENANCE)	EACH					1	1
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	9524				1507	11031
	707-01.12	END & CORNER POST ASSEMBLY (CHAIN-LINK FENCE 6')	EACH	53				6	59
	707-01.13	GATE - CHAIN-LINK FENCE-6 FOOT (DESCRIPTION)	EACH	1					1
	707-03.01	STOCK FENCE	L.F.		11403				11403
	707-03.02	END, BRACED LINE, CORNER POST ASSEMBLY (STOCK FENCE)	EACH		47				47
	707-04	WATER CROSSING	L.F.	100					100
(9)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	787	3166				3953
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	82	48			6	136
(11)	709-01.01	RUBBLE STONE RIP-RAP	C.Y.	11					11
)(17)(35)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	400	950	200	200	100	1850
(4)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	3658	634	64		23	4379
(36)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	6142	1633				7775
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	585	100				685
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	31306	10238	2817	2817	1485	48663
	710-05	LATERAL UNDERDRAIN	L.F.	6432	1652			286	8370
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	32					32
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	38	10			4	52
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	102	37			7	146
	711-05.01	REMOVAL & DISPOSAL OF CONCRETE MEDIAN BARRIER	L.F.	210				81	291
	711-05.70	32IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	4105				1072	5177
	711-05.71	51IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	4976					4976
(25)	711-05.77	FLARED S/S CONCRETE MEDIAN BARRIER WALL	L.F.	410				81	491
	712-01	TRAFFIC CONTROL	LS	0.2	0.2	0.2	0.2	0.2	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	30440	260	4766	1351	2254	39071
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	847	50	30	32	145	1104
	712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR	EACH	733				20	753
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	1522	13	239	68	113	1955
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	120	10	10	10		150
	712-06	SIGNS (CONSTRUCTION)	S.F.	1880	188	55	109	620	2852
	712-06.01	VERTICAL PANELS	S.F.	2926	64	471	136		3597
(16)	712-06.16	SIGNS (CONSTRUCTION)(REDUCED SPEED WARNING)	EACH	2				2	4
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	210	40	40	40		330
	712-08.03	ARROW BOARD (TYPE C)	EACH	8		1	1	1	11
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	18310		12119	7415		37844
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	139297				11057	150354
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	9	1	1	1	3	15
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	2648	50	100	50	1066	3914
(26)	713-02.04	DELINEATOR (MILE MARKER) & STEEL POST	EACH	3				1	4
(26)	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH	184	13			21	218
(26)	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	77					77
	713-05	STEEL HOLLOW SQUARE POST (BREAKAWAY) SIGN SUPPORTS	LB.	482					482
	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB.	15441	165	553	165	2185	18509
	713-09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 97'-0")	EACH	1					1
	713-09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN1=110'-0" SPAN2=109'-0")	EACH	1					1
	713-09.03	STEEL OVERHEAD SIGN STRUCTURE (SPAN 56'-0")	EACH	1					1
	713-09.04	STEEL OVERHEAD SIGN STRUCTURE (SPAN 55'-0")	EACH	1					1
	713-09.05	STEEL OVERHEAD SIGN STRUCTURE (SPAN 102'-0")	EACH	1					1
	713-09.06	STEEL OVERHEAD SIGN STRUCTURE (SPAN 75'-3")	EACH	1					1

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A3

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
	713-09.07	STEEL OVERHEAD SIGN STRUCTURE (SPAN 100'-3")	EACH					1	1
	713-09.08	STEEL OVERHEAD SIGN STRUCTURE (SPAN 100'-6")	EACH					1	1
	713-09.09	STEEL OVERHEAD SIGN STRUCTURE (SPAN 156'-0")	EACH		1				1
	713-09.10	STEEL OVERHEAD SIGN STRUCTURE (SPAN 146'-0")	EACH	1					1
	713-11.01	"U" SECTION STEEL POSTS	LB.	734	416	194	69	63	1476
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	3584	1730	237	132		5683
	713-11.05	SQUARE TUBE SIGN SUPPORT	LB.	534				78	612
	713-11.21	P POST SLIP BASE	EACH	3	4				7
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	610	273	63	29		975
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	974	253	40	31	84	1382
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F.	3089	160	135		775	4159
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.2	0.2	0.2	0.2	0.2	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2	1	1	1	1	6
	713-16.07	END OF ROADWAY SIGN AND SUPPORT	EACH	4	2				6
	713-17.02	INSTALL AUXILIARY SUPPORT FOR EXIT NUMBER PANEL	EACH	2					2
	713-17.62	SIGN MOUNTED ON CONCRETE MEDIAN BARRIER (STD.T-S-21)	EACH	20				2	22
	713-30.09	BARRIER MOUNTED SIGN SUPPORT (STD.T-S-21)	EACH	20				1	21
	713-30.10	BARRIER MOUNTED SIGN SUPPORT (STD.T-S-21)	EACH					1	1
	716-01.05	TEMPORARY RAISED PAVEMENT MARKER	EACH	491				17	508
	716-01.22	Snwplwble Pvmt Mrkrs (Mono-Dir) (1 Color)	EACH	202	272	103	102		679
	716-01.23	Snwplwble Pvmt Mrkrs (Bi-Dir) (2 Color)	EACH	498				187	685
	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	433		72			505
	716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	604					604
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	409	251	65	87		812
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	35	12	5	4		56
	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	5626	3511			335	9472
	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	52		227			279
	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	5		2		1	8
	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	3	1			1	5
	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	21	7	2	2	3	35
	716-04.06	PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	3					3
	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	6					6
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1.5	0.5				2
	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	150354					150354
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.		2	1	1		4
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	73520					73520
	716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	11556					11556
	716-08.33	HYDROBLAST REMOVAL OF PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH					2	2
(12)	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	8	7	2	2		19
(12)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	16				5	21
(12)	716-12.06	ENHANCED FLAT LINE THERMO (8IN LINE)	L.F.	5685	356			711	6752
(12)	716-12.08	ENHANCED FLAT LINE THERMO (12IN BARRIER LINE)	L.F.	3732				1003	4735
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2					2
	717-01	MOBILIZATION	LS	0.2	0.2	0.2	0.2	0.2	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	8	3				11
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	5	1				6
	730-02.30	SIGNAL HEAD ASSEMBLY (130 A3 WITH BACKPLATE)	EACH	5	2				7
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	7	1	1	1		10
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	27	7				34
	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	2	1				3
	730-05.02	SERVICE CABLE (2 CONDUCTOR, # 8 AWG)	L.F.	620	85				705
	730-08.01	SIGNAL CABLE - 3 CONDUCTOR	L.F.	630	1205				1835
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	2330	1670				4000
	730-08.30	INTERCONNECT CABLE (COPPER-TWISTED PAIR)	L.F.	3295	70				3365
(31)	730-09.01	SPAN WIRE ASSEMBLY (23,000 LBS.MIN.BRK STRENGTH)	L.F.	245	275				520
(32)	730-09.02	SPAN WIRE ASSEMBLY (24,000 LBS.MIN.BRK STRENGTH)	L.F.	240					240
(33)	730-09.03	SPAN WIRE ASSEMBLY (16,000 LBS.MIN.BRK STRENGTH)	L.F.	480					480
	730-10.02	MESSENGER CABLE - 1/4" DIAMETER	L.F.	100					100
	730-11.10	RISER ASSEMBLY (1", RGS)	EACH	1					1
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	200	60	15	15		290
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	4215	500	146	146		5007
	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	120	100				220
	730-12.07	CONDUIT 1" DIAMETER (RGS)	L.F.	300	85				385
	730-12.08	CONDUIT 2" DIAMETER (RGS)	L.F.	130					130
	730-12.09	CONDUIT 3" DIAMETER (RGS)	L.F.	65					65
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	7795	3090	300	300		11485
	730-14.02	SAW SLOT	L.F.	540	70				610
	730-14.03	LOOP WIRE	L.F.	1280	160				1440
	730-14.10	PREFORMED DETECTION LOOP (6FT x 6FT)	EACH	10	2	2	2		16
	730-14.11	PREFORMED DETECTION LOOP (6FT x 50FT QUADRUPOLE)	EACH	7	1				8
	730-14.12	PREFORMED DETECTION LOOP (6FT x 20FT)	EACH		1				1

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ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A4

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
	730-15.31	CABINET (FOUR PHASE BASE MOUNTED)	EACH	2					2
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH		1				1
	730-16.01	FOUR PHASE ACTUATED CONTROLLER	EACH	2					2
	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH		1				1
	730-18.01	MASTER CONTROLLER	EACH	1					1
	730-23.01	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	9	2				11
	730-26.05	COUNTDOWN PEDESTRIAN SIGNAL	EACH	4	4				8
	730-26.06	PEDESTRIAN PUSHBUTTON POST	EACH	3	4				7
	730-26.09	PEDESTRIAN PUSHBUTTON WITH 15IN SIGN	EACH	4	4				8
(2)	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	7395	4181	343	343	172	12434
	740-10.04	GEOTEXTILE (TYPE IV) (STABILIZATION)	S.Y.	8402					8402
(2)	740-11.04	TEMPORARY SEDIMENT TUBE 20IN (DESCRIPTION)	L.F.	15732	10410	450	450	348	27390
	801-01	SEEDING (WITH MULCH)	UNIT	903	323			40	1266
	801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	679	95			5	779
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2531	668	104	103	72	3478
	801-02	SEEDING (WITHOUT MULCH)	UNIT	68	97	7	7	3	182
	801-02.01	CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	48	20			1	69
(14)	801-03	WATER (SEEDING & SODDING)	M.G.	723	261	148	144	34	1310
	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	203	73			9	285
	801-07.01	CROWN VETCH SEED (SUPPLEMENTAL APPLICATION)	LB.	153	21			1	175
	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	3	1				4
(28)	802-11.09	CARYA OVATA (SHAGBARK HICKORY 2-5FT CNTNR GRWN)	EACH		25				25
(28)	802-11.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM 2-5FT CNTNR GRWN)	EACH		25				25
(28)	802-11.28	PRUNUS SEROTINA (BLACK CHERRY 2-5FT CNTNR GRWN)	EACH		25				25
(28)	802-11.29	QUERCUS ALBA (WHITE OAK 2-5FT CNTNR GRWN)	EACH		25				25
(28)	802-11.31	QUERCUS FALCATA (SOUTHERN RED OAK 2-5FT CNTNR GRWN)	EACH		25				25
	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	EACH		71				71
	802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	EACH		71				71
	802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	EACH		71				71
	802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	EACH		71				71
	802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	EACH		71				71
	802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	EACH		71				71
(29)	802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	EACH		25				25
(29)	802-12.09	CARYA OVATA (SHAGBARK HICKORY SEEDLNG B.R.)	EACH		25				25
(29)	802-12.12	CORNUS FLORIDA (FLOWERING DOGWOOD SEEDLNG B.R.)	EACH		25				25
(29)	802-12.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM SEEDLNG B.R.)	EACH		25				25
(29)	802-12.44	ULMUS AMERICANA (AMERICAN ELM SEEDLNG B.R.)	EACH		25				25
	803-01	SODDING (NEW SOD)	S.Y.	31302	12133	6073	5391	881	55780
	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	14019		1473	58	188	15738
(2)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	69671	8370			1056	79098
(30)(15)	806-2.11	PROJECT MOWING	SITE	0.2	0.2	0.2	0.2	0.2	1

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ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A5

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
		ALT "A" PAVING QUANTITIES							
	203-06	WATER	M.G.	3446	675	34	50	157	4362
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	139574	49848	3398	3866	9414	206100
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3744	388	71	70	300	4573
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	8597	8851	1361	1518		20327
	307-02.02	ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING A-S	TON	164	169	26	29		388
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	4882	5027	773	862		11544
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	4295	4409	1013	1018		10735
	307-03.01	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A	TON	25166				2838	28004
	307-03.02	PERF. GRADE ASPH. CEMENT (PG76-22) GRADING AS	TON	299				34	333
	307-03.03	AGGREGATE (BPMB-HM) GRADING AS	TON	8893				1003	9895
	307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	12295				2088	14383
	313-03	TREATED PERMEABLE BASE	S.Y.	32021					32021
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	301	81	7	8	14	411
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1025	318	28	33	54	1458
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	141	29	6	6	16	198
(19)	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	2157	982			215	3354
	411-01.10	ACS MIX (PG64-22) GRADING D	TON	1014	243	48	48		1353
	411-02.10	ACS MIX (PG70-22) GRADING D	TON	2518	2585	594	597		6294
	411-03.15	ASP CEM (PG76-22) OGFC MIX	TON	363				65	428
	411-03.16	ASP CEM (PG76-22) OGFC MIX	TON	5682				1015	6696
(37)	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	1177	35	280	233	340	2065
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	31895					31895
		ALT "B" PAVING QUANTITIES							
	203-06	WATER	M.G.	3417	644	34	50	157	4302
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	126585	35396	3398	3866	9414	178659
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3744	388	71	70	300	4573
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	8597	8851	1361	1518		20327
	307-02.02	ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING A-S	TON	164	169	26	29		388
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	4882	5027	773	862		11544
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	4295	4409	1013	1018		10735
	307-03.01	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A	TON	25166				2838	28004
	307-03.02	PERF. GRADE ASPH. CEMENT (PG76-22) GRADING AS	TON	299				34	333
	307-03.03	AGGREGATE (BPMB-HM) GRADING AS	TON	8893				1003	9895
	307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	12295				2088	14383
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	9313	9511				18824
	309-01.02	PORTLAND CEMENT (A-CBC)	TON	454	463				917
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	288	294				582
	313-03	TREATED PERMEABLE BASE	S.Y.	32021					32021
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	301	81	7	8	14	411
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1025	318	28	33	54	1458
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	141	29	6	6	16	198
(19)	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	2157	982			215	3354
	411-01.10	ACS MIX (PG64-22) GRADING D	TON	1014	243	48	48		1353
	411-02.10	ACS MIX (PG70-22) GRADING D	TON	2518	2585	594	597		6294
	411-03.15	ASP CEM (PG76-22) OGFC MIX	TON	363				65	428
	411-03.16	ASP CEM (PG76-22) OGFC MIX	TON	5682				1015	6696
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	1177	35	280	233	340	2065
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	31895					31895

ESTIMATED BRIDGE QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	ROBERTSON S.R. 109/I-65 74003-3164-44 QUANTITY	SUMNER S.R. 109 83001-3143-44 QUANTITY	ROBERTSON S.R. 41 74096-3201-14 QUANTITY	SUMNER S.R. 41 83008-3229-14 QUANTITY	KENTUCKY I-65 74003-3168-44 QUANTITY	TOTAL QUANTITY
	204-08	FOUNDATION FILL MATERIAL	C.Y.	791					791
(21)	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	7170					7170
	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	3751					3751
	604-02-02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	514205					514205

(1) SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
(2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT.
(3) QUANTITY INCLUDES ONE REPLACEMENT BAG FOR EACH LOCATION SHOWN IN EPSC PLANS.
(4) INCLUDES 3521 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(5) FOR USE IN FILLING EXISTING PONDS AND STABILIZING UNDERCUT AREAS.
(6) INCLUDES 7658 C.Y. FOR UNDERCUT AREAS, 521 C.Y. FOR EPSC, AND 0 C.Y. FOR TOPSOIL FROM FILL AREAS.
(7) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(8) TO BE USED FOR LINING DIVERSION CHANNELS AND COVERING OF EXCAVATED MATERIAL STOCKPILES.
(9) SEE EPSC SPECIAL NOTES, SHEET 105.
(10) REFER TO SPECIAL NOTES.
(11) STANDARD DRAWING STD-1-7 IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS.
(12) CONTRACTOR SHALL USE THE RIBBON METHOD FOR APPLICATION.
(13) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
(14) INCLUDES 348 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(15) ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.11, PROJECT MOWING,SITE.
(16) ITEM TO BE USED ONLY WHEN THE CONTRACTOR ESTABLISHES A REDUCED SPEED LIMIT WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS, AND TWO TYPE "B" FLASHERS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE.
(17) PER STRUCTURES 550 TONS CLASS "A-3" RIP-RAP REQ'S FOR SR-109 BRIDGE STA. 1851+69.99 I-65
(18) BID PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL. SEE TABULATED QUANTITIES SHEET NO. 2AK FOR REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTIONS BLOCK.
(19) INCLUDES 853 TONS FOR MAINTENANCE OF TRAFFIC ON I-65 TO STABILIZE SHOULDERS.
(20) FOR USE AT DRIVEWAYS
(21) INCLUDES 9 CY PER MODIFIED #3 MANHOLE.
(22) INCLUDES 7 CY PER MODIFIED #3 MANHOLE.
(23) INCLUDES 460 LBS. PER MODIFIED #3 MANHOLE.
(24) FOR USE MAINTAINING TRAFFIC WHILE CONSTRUCTIING RCBC STA. 1865+70.00
(25) INLCLUDES QUANTITY FOR REPLACING SECTIONS OF EXISTING MEDIAN BARRIER WALL STA. 1884+40 AND STA. 1897+00 FOR OH SIGN STRUCTURE INSTALLATION.
(26) SEE STD. DWG. T-S-11.
(27) INCLUDES 1135 TON FOR TRAFFIC CONTROL IN ROBERTSON SR-109/I65 AND 219 TON FOR TRAFFIC CONTROL ALONG I-65 IN KENTUCKY.
(28) ITEMS 802-11.10, CARYA TOMENTOSA (MOCKERNUT HICKORY 2-5FT CNTNR GRWN) OR 802-11.26, PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN) CAN BE USED AS SUBSTITUTE IF ANY OF THESE ARE NOT AVAILABLE.
(29) ITEMS 802-12.29, QUERCUS ALBA (WHITE OAK SEEDLNG B.R.) CAN BE USED AS SUBSTITUTE IF ANY OF THESE ARE NOT AVAILABLE.
(30) INCLUDES 7 MOWING CYCLES PER PROJECT.
(31) SR-109 AT SR-41
(32) SR-109 AT RAMP F
(33) SR-109 AT RAMP A
(34) INCLUDES 243 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(35) INCLUDES 1300 CY FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(36) INCLUDES 1073 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(37) INCLUDES 1136 TONS IN ROBERTSON I-65 & 219 TONS IN KENTUCKY FOR MAINTENANCE OF TRAFFIC.

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ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2C

ROBERTSON COUNTY ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	74003-3164-44 QUANTITY	74096-3201-14 QUANTITY
790-04.01	POLE 45FT CLASS 1 WOOD	EACH	8	
790-05.02	POLE 50FT CLASS 2 WOOD	EACH	1	
790-05.07	POLE 50FT CLASS H1 METAL	EACH	1	
790-06.07	POLE 55FT CLASS H1 METAL	EACH	3	
790-07.07	POLE 60FT CLASS H1 METAL	EACH	5	
790-08.04	POLE 65FT CLASS H2 METAL	EACH	4	
790-10.05	POLE 75FT CLASS H2 METAL	EACH	1	
790-22.01	1Ø SGL PRIMARY SUPPORT 25KV	EACH	4	
790-22.07	1Ø DBL PTS ANGLE 25KV	EACH	2	
790-22.10	1Ø SUSPENSION ANGLE 25KV	EACH	1	
790-22.13	1Ø DEAD END 25KV	EACH	2	
790-22.15	1Ø DEAD END TAP W/ EXTENSION 25KV	EACH	3	
790-22.16	1Ø DDE TANGENT 25KV	EACH	1	
790-26.04	3Ø CROSSARM SGL LRG COND ON ST POLE 25KV	EACH	18	
790-26.22	3Ø VERTICAL DDE ANGLE LRG COND 25KV	EACH	4	
790-26.24	3Ø VERTICAL DEAD END LRG COND 25KV	EACH	7	
790-26.28	3Ø DBL 10FT XARM DDE 25KV	EACH	3	
790-28.02	DBL CKT LRG COND CONST 25KV	EACH	9	
790-30.01	SECONDARY ASSEMBLIES SMALL ANGLE	EACH	4	
790-30.03	SECONDARY ASSEMBLIES DEADEND	EACH	18	
790-30.04	SECONDARY ASSEMBLIES MISC	EACH	12	
790-30.14	SECONDARY CONDUCTOR 1/0 AL TRIPLEX	LF	164	
790-31.02	SERVICE ASSEMBLY-POLE TYPE	EACH	6	
790-32.19	DN GUY HVY CONST - 1 PREFORM	EACH	36	
790-32.21	OH GUY HVY CONST -THROUGH BOLT TYPE	EACH	4	
790-32.23	GUY GUARD	EACH	36	
790-33.04	SCREW TYPE ANCHOR 10,000LB-12,000LB	EACH	10	
790-33.15	1IN TRIPLE EYE	EACH	13	
790-40.05	OH COND 3/0 6/1 ACSR PIGEON	LF	2698	
790-40.09	OH COND 336.4 18/1 ACSR MERLIN	LF	16088	
790-40.73	OH COND 2 6/1 ACSR SPARROW	LF	2630	
790-43.50	SECONDARY RISER W/ 2IN CONDUIT	EACH	0	
790-46.01	1Ø TRANSFORMER	EACH	4	
790-46.03	1Ø TRANSFORMER CONV W/XARM MTD FUSE & LA	EACH	1	
790-59.04	HOOK STICK SWITH LINE TENSION-SNGL 25KV	EACH	0	
790-61.01	1Ø FUSE CUTOUT XARM MOUNT 25KV	EACH	7	
790-65.06	LIGHTNING ARRESTER POLE MTD 18 KV	EACH	2	
790-68.01	POLE GROUND ROD TYPE	EACH	23	
790-68.13	SGL PHASE MOUNTING BRACKET - FIBERGLASS	EACH	6	
790-69.03	10FT DBL CROSSARM	EACH	0	
790-69.04	FIBERGLASS CROSSARM ASSEMBLY	EACH	0	
790-69.31	STICK PIN	EACH	6	
790-70.11	STREET LIGHT - HIGH PRESSURE SODIUM 400W	EACH	0	
790-70.12	STREET LIGHT - HIGH PRESSURE SODIUM 250W 15FT ARM	EACH	0	
790-98.01	REMOVE WIRE	LF	28503	
790-98.02	REMOVE POLES	EACH	28	
790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS	EACH	150	
791-03.02	2IN HDPE GAS MAIN	L.F.	50	0
791-03.04	4IN HDPE GAS MAIN	L.F.	0	104
791-03.05	6IN HDPE GAS MAIN	L.F.	188	0
791-03.06	8IN HDPE GAS MAIN	L.F.	5655	0
791-04.01	HDD <2IN PE PIPE - UNCONSOLIDATED	L.F.	0	121
791-04.04	HDD 4IN PE PIPE - UNCONSOLIDATED	L.F.	0	50
791-04.05	HDD 6IN PE PIPE - UNCONSOLIDATED	L.F.	65	0
791-05.11	BORE/JACK 12IN - STEEL CASING PIPE - UNCON.	L.F.	571	0
791-05.55	12IN STEEL CASING PIPE - OPEN CUT	L.F.	88	0
791-06.02	CONNECT TO 2IN EX. PE MAIN	EACH	2	0

NOTE: SEE SHEET U1-1 FOR INDEX OF UTILITY SHEETS.

ROBERTSON COUNTY ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	74003-3164-44 QUANTITY	74096-3201-14 QUANTITY
791-06.03	CONNECT TO 4IN EX. PE MAIN	EACH	1	1
791-06.04	CONNECT TO 6IN EX. PE MAIN	EACH	4	0
791-06.09	CONNECT TO 3/4IN EX. PE MAIN	EACH	1	4
791-07.02	4IN PE GAS VALVE ASSEMBLY	EACH	1	0
791-07.03	6IN PE GAS VALVE ASSEMBLY	EACH	1	0
791-07.04	8IN PE GAS VALVE ASSEMBLY	EACH	7	0
791-08.07	3/4IN PE SERVICE PIPE	L.F.	100	132
791-10.05	RETIRE IN PLACE 4IN SERV CUT & PLUG	EACH	1	0
791-10.06	RETIRE IN PLACE 6IN SERV CUT & PLUG	EACH	2	0
793-01.41	ANCHOR 1IN	EACH	15	
793-10.20	EXPOSE EXISTING CABLE/CONDUIT (ALL DEPTHS)	L.F.	630	
793-11.19	MARKER POST	EACH	6	
793-13.63	6IN SPLIT STEEL (BSP)	L.F.	30	
793-14.18	LOWER CONDUIT PER 12 IN INCREMENTS	L.F.	598	
793-14.21	ROD DUCTS	L.F.	628	
795-01.08	10" CL 53 DIP SLIP JOINT WATER LINE	L.F.	0	0
795-03.05	6IN PVC WTR LN	L.F.	3600	3600
795-03.08	12IN PVC WTR LN	L.F.	1650	1650
795-05.77	BORE/JACK 12IN STL CSNG PIPE - ROCK	L.F.	700	700
795-05.82	BORE/JACK 24IN STL CSNG PIPE - ROCK	L.F	380	380
795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EACH	2	2
795-08.03	4IN GATE VALVE ASSEMBLY	EACH	2	2
795-08.04	6IN GATE VALVE ASSEMBLY	EACH	10	10
795-08.08	12IN BUTTERFLY VALVE ASSEMBLY	EACH	7	7
795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EACH	4	4
795-09.04	2IN WATER SERVICE METER ASSEMBLY	EACH	0	0
795-09.27	TI OF 2IN PVC CASING PIPE FOR SERVICE PIPE - ROCK	L.F.	100	100
795-09.28	3/4IN COPPER SERVICE PIPE	L.F.	200	200
795-09.29	1IN COPPER SERVICE PIPE	L.F.	0	0
795-11.01	2-1/2IN BLOW-OFF ASSEMBLY	EACH	1	1
795-11.02	4 1/2IN FIRE HYDRANT ASSEMBLY	EACH	3	3
795-13.01	D.I. FITTINGS	LBS	5000	5000
795-14.05	CONCRETE ENCASEMENT	L.F.	100	100
795-14.08	RESTORE ASPHALT	S.Y.	100	100
795-14.10	RESTORE GRAVEL FOR DRIVEWAY CROSSINGS	S.Y.	100	100
797-03.06	4IN PVC FORCE MAIN	L.F.	550	0
797-03.08	6IN PVC FORCE MAIN	L.F.	2400	1600
797-05.01	8IN DIP GRAVITY SEWER 0FT-6FT DEPTH	L.F.	0	0
797-05.02	8IN DIP GRAVITY SEWER 6FT-12FT DEPTH	L.F.	0	0
797-05.03	8IN DIP GRAVITY SEWER 12FT-18FT DEPTH	L.F.	50	0
797-05.51	8IN PVC GRAVITY SEWER 0FT-6FT DEPTH	L.F.	50	0
797-05.52	8IN PVC GRAVITY SEWER 6FT-12FT DEPTH	L.F.	2025	85
797-05.53	8IN PVC GRAVITY SEWER 12FT-18FT DEPTH	L.F.	0	0
797-06.73	BORE/JACK 8IN STEEL CASING ROCK	L.F.	110	0
797-06.75	BORE/JACK 12IN STEEL CASING ROCK	L.F.	50	470
797-06.77	BORE/JACK 16IN STEEL CASING ROCK	L.F.	240	0
797-06.79	BORE/JACK 20IN STEEL CASING ROCK	L.F.	0	0
797-07.02	48 IN MANHOLE 4FT-6FT DEPTH	EACH	0	1
797-07.03	48 IN MANHOLE 6FT-8FT DEPTH	EACH	4	0
797-07.04	48 IN MANHOLE 8FT-10FT DEPTH	EACH	6	0
797-07.05	48 IN MANHOLE 10FT-12FT DEPTH	EACH	0	0
797-07.06	48 IN MANHOLE 12FT-14FT DEPTH	EACH	0	0
797-07.07	48 IN MANHOLE 14FT-16FT DEPTH	EACH	1	0
797-08.01	D.I. FITTINGS	LBS	2500	1200
797-08.05	6" PVC PIPE FOR SERVICE LATERAL	L.F.	400	0
797-08.08	6" CLEAN OUT ASSEMBLY	EACH	6	0
797-09.06	4IN PLUG VALVE ASSEMBLY	EACH	3	0

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ROBERTSON COUNTY ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	74003-3164-44 QUANTITY	74096-3201-14 QUANTITY
797-09.07	6IN PLUG VALVE ASSEMBLY	EACH	3	4
797-09.26	2IN AIR/VAC VALVE ASSEMBLY	EACH	2	1
797-10.01	CONNECT 6IN SEWER TO EXIST MANHOLE	EACH	0	1
797-10.02	CONNECT 8IN SEWER TO EXIST. MANHOLE	EACH	1	1
797-10.16	CONNECT TO 4 IN FORCE MAIN	EACH	1	0
797-10.17	CONNECT TO 6IN FORCE MAIN	EACH	1	1
797-11.15	48IN MANHOLE ADJUSTMENT INCREASE HEIGHT	V.L.F.	5	1
797-11.40	RESTORE ASPHALT	S.Y.	100	100
797-11.41	RESTORE CONCRETE	S.Y.	100	100
797-30.23	OPEN CUT 8IN PVC CASING	L.F.	130	0
797-30.24	OPEN CUT 12IN PVC CASING PIPE	L.F.	0	0
797-30.25	OPEN CUT 16IN PVC CASING	L.F.	0	0

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ESTIMATED UTILITIES QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2C1

SUMNER COUNTY ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	83008-3229-14 QUANTITY	83001-3143-44 QUANTITY
790-04.01	POLE 45FT CLASS 1 WOOD	EACH	2	2
790-05.07	POLE 50FT CLASS H1 METAL	EACH	11	7
790-06.07	POLE 55FT CLASS H1 METAL	EACH	1	4
790-22.13	1Ø DEAD END 25KV	EACH	0	1
790-22.15	1Ø DEAD END TAP W/ EXTENSION 25KV	EACH	1	1
790-22.16	1Ø DDE TANGENT 25KV	EACH	0	1
790-24.06	2Ø DEAD END 25KV	EACH	1	0
790-24.10	2Ø DDE XARM 25KV	EACH	1	0
790-26.01	3Ø CROSSARM 25KV	EACH	1	0
790-26.02	3Ø CROSSARM DBL LRG COND 25KV	EACH	0	2
790-26.04	3Ø CROSSARM SGL LRG COND ON ST POLE 25KV	EACH	9	5
790-26.24	3Ø VERTICAL DEAD END LRG COND 25KV	EACH	0	8
790-26.26	3Ø CROSSARM DEAD END 25KV	EACH	2	0
790-26.28	3Ø DBL 10FT XARM DDE 25KV	EACH	3	0
790-30.01	SECONDARY ASSEMBLIES SMALL ANGLE	EACH	3	1
790-30.03	SECONDARY ASSEMBLIES DEADEND	EACH	15	10
790-30.04	SECONDARY ASSEMBLIES MISC	EACH	9	7
790-30.06	SECONDARY CONDUCTOR 6 AL DUPLEX	LF	305	0
790-30.14	SECONDARY CONDUCTOR 1/0 AL TRIPLEX	LF	0	124
790-31.02	SERVICE ASSEMBLY-POLE TYPE	EACH	7	7
790-32.19	DN GUY HVY CONST - 1 PREFORM	EACH	10	29
790-32.23	GUY GUARD	EACH	10	29
790-33.04	SCREW TYPE ANCHOR 10,000LB-12,000LB	EACH	1	5
790-33.15	1IN TRIPLE EYE	EACH	5	16
790-40.05	OH COND 3/0 6/1 ACSR PIGEON	LF	555	2152
790-40.09	OH COND 336.4 18/1 ACSR MERLIN	LF	1665	6456
790-40.73	OH COND 2 6/1 ACSR SPARROW	LF	232	584
790-46.01	1Ø TRANSFORMER	EACH	0	2
790-46.03	1Ø TRANSFORMER CONV W/XARM MTD FUSE & LA	EACH	4	2
790-61.01	1Ø FUSE CUTOUT XARM MOUNT 25KV	EACH	7	5
790-65.06	LIGHTNING ARRESTER POLE MTD 18 KV	EACH	3	1
790-68.01	POLE GROUND ROD TYPE	EACH	14	13
790-68.13	SGL PHASE MOUNTING BRACKET - FIBERGLASS	EACH	3	4
790-69.04	FIBERGLASS CROSSARM ASSEMBLY	EACH	1	0
790-69.31	STICK PIN	EACH	0	12
790-70.12	STREET LIGHT - HIGH PRESSURE SODIUM 250W 15FT ARM	EACH	4	0
790-70.13	STREET LIGHT - HIGH PRESSURE SODIUM 250W	EACH	0	3
790-98.01	REMOVE WIRE	LF	2577	8930
790-98.02	REMOVE POLES	EACH	14	10
790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS	EACH	102	54
791-01.04	4IN STEEL GAS MAIN	L.F.	2590	0
791-01.06	8IN STEEL GAS MAIN	L.F.	450	0
791-03.02	2IN HDPE GAS MAIN	L.F.	0	2253
791-03.04	4IN HDPE GAS MAIN	L.F.	60	0
791-03.06	8IN HDPE GAS MAIN	L.F.	60	0
791-04.01	HDD <2IN PE PIPE - UNCONSOLIDATED	L.F.	124	95
791-04.04	HDD 4IN PE PIPE - UNCONSOLIDATED	L.F.	50	0
791-04.24	HDD 8IN STEEL PIPE - UNCONSOLIDATED	L.F.	50	0
791-05.11	BORE/JACK 12IN - STEEL CASING PIPE - UNCON.	L.F.	55	0
791-05.52	6IN STEEL CASING PIPE - OPEN CUT	L.F.	0	172
791-05.55	12IN STEEL CASING PIPE - OPEN CUT	L.F.	205	0
791-06.02	CONNECT TO 2IN EX. PE MAIN	EACH	0	2
791-06.09	CONNECT TO 3/4IN EX. PE MAIN	EACH	5	2
791-06.32	CONNECT TO 4IN EX. STL MAIN W/ STOPPLE	EACH	3	0
791-07.01	2IN PE GAS VALVE ASSEMBLY	EACH	0	2
791-07.02	4IN PE GAS VALVE ASSEMBLY	EACH	1	0
791-07.04	8IN PE GAS VALVE ASSEMBLY	EACH	1	0

SUMNER COUNTY ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	83008-3229-14 QUANTITY	83001-3143-44 QUANTITY
791-07.10	4IN STEEL GAS VALVE ASSEMBLY	EACH	7	0
791-07.12	8IN STEEL GAS VALVE ASSEMBLY	EACH	2	0
791-08.07	3/4IN PE SERVICE PIPE	L.F.	112	391
791-10.04	RETIRE IN PLACE 2IN SERV CUT & PLUG	EACH	0	2
791-10.05	RETIRE IN PLACE 4IN SERV CUT & PLUG	EACH	4	0
793-01.41	ANCHOR 1IN	EACH	0	9
793-10.20	EXPOSE EXISTING CABLE/CONDUIT (ALL DEPTH)	L.F.	2040	
793-11.19	MARKER POST	EACH	22	
793-13.67	14IN SPLIT STEEL (BSP)	L.F.	2030	
793-14.18	LOWER CONDUIT PER 12 IN INCREMENTS	L.F.	100	
793-14.21	ROD DUCTS	L.F.	2130	
793-98.04	REMOVE POLES ALL SIZES	EACH	1	0
793-98.04	REMOVE POLES ALL SIZES	EACH	0	1
795-03.05	6IN PVC WTR LN	L.F.	5650	
795-05.77	BORE/JACK 12IN STL CSNG PIPE - ROCK	L.F.	800	
795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EACH	8	
795-08.04	6IN GATE VALVE ASSEMBLY	EACH	8	
795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EACH	16	
795-09.27	TI OF 2IN PVC CASING PIPE FOR SERVICE PIPE - ROCK	L.F.	900	
795-09.28	3/4IN COPPER SERVICE PIPE	L.F.	1250	
795-11.02	4 1/2IN FIRE HYDRANT ASSEMBLY	EACH	1	
795-13.01	D.I. FITTINGS	LBS	2000	
795-14.05	CONCRETE ENCASEMENT	L.F.	100	
795-14.08	RESTORE ASPHALT	S.Y.	250	
795-14.10	RESTORE GRAVEL FOR DRIVEWAY CROSSINGS	S.Y.	250	
795-30.24	OPEN CUT 12IN PVC CASING PIPE	L.F.	325	
797-03.08	6IN PVC FORCE MAIN	L.F.	2350	
797-05.01	8IN DIP GRAVITY SEWER 0FT-6FT DEPTH	L.F.	15	
797-05.02	8IN DIP GRAVITY SEWER 6FT-12FT DEPTH	L.F.	250	
797-05.03	8IN DIP GRAVITY SEWER 12FT-18FT DEPTH	L.F.	175	
797-05.51	8IN PVC GRAVITY SEWER 0FT-6FT DEPTH	L.F.	140	
797-05.52	8IN PVC GRAVITY SEWER 6FT-12FT DEPTH	L.F.	1150	
797-05.53	8IN PVC GRAVITY SEWER 12FT-18FT DEPTH	L.F.	110	
797-06.75	BORE/JACK 12IN STEEL CASING ROCK	L.F.	310	
797-06.77	BORE/JACK 16IN STEEL CASING ROCK	L.F.	45	
797-06.79	BORE/JACK 20IN STEEL CASING ROCK	L.F.	210	
797-07.02	48 IN MANHOLE 4FT-6FT DEPTH	EACH	1	
797-07.04	48 IN MANHOLE 8FT-10FT DEPTH	EACH	2	
797-07.05	48 IN MANHOLE 10FT-12FT DEPTH	EACH	2	
797-07.06	48 IN MANHOLE 12FT-14FT DEPTH	EACH	1	
797-07.07	48 IN MANHOLE 14FT-16FT DEPTH	EACH	1	
797-08.01	D.I. FITTINGS	LBS	1400	
797-08.05	6" PVC PIPE FOR SERVICE LATERAL	L.F.	250	
797-08.08	6" CLEAN OUT ASSEMBLY	EACH	5	
797-09.07	6IN PLUG VALVE ASSEMBLY	EACH	5	
797-09.26	2IN AIR/VAC VALVE ASSEMBLY	EACH	2	
797-10.02	CONNECT 8IN SEWER TO EXIST. MANHOLE	EACH	1	
797-10.17	CONNECT TO 6IN FORCE MAIN	EACH	1	
797-11.15	48IN MANHOLE ADJUSTMENT INCREASE HEIGHT	V.L.F.	5	
797-11.40	RESTORE ASPHALT	S.Y.	100	
797-11.41	RESTORE CONCRETE	S.Y.	100	
797-30.24	OPEN CUT 12IN PVC CASING PIPE	L.F.	220	
797-30.25	OPEN CUT 16IN PVC CASING	L.F.	125	

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ESTIMATED UTILITIES QUANTITIES

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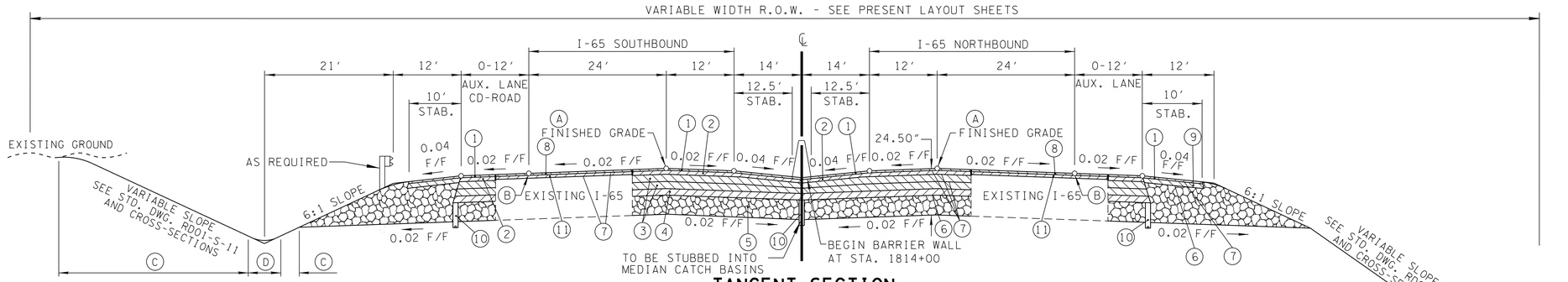
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2
CONST.	2014	STP/HPP/NH-I-65-3(113)	2D

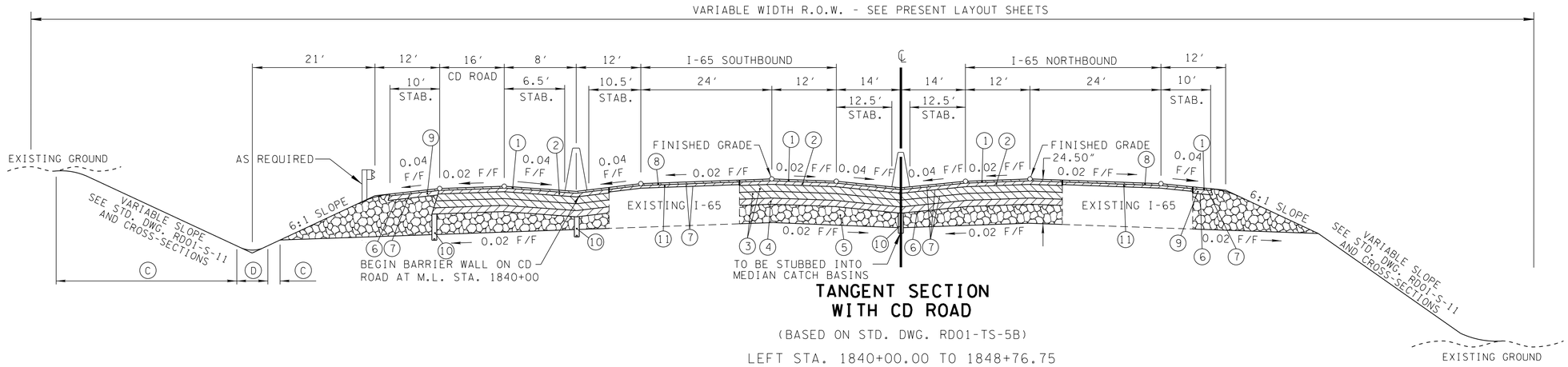
I-65 MAINLINE



TANGENT SECTION WITH AUX. LANE

(BASED ON STD. DWG. RD01-TS-5B)

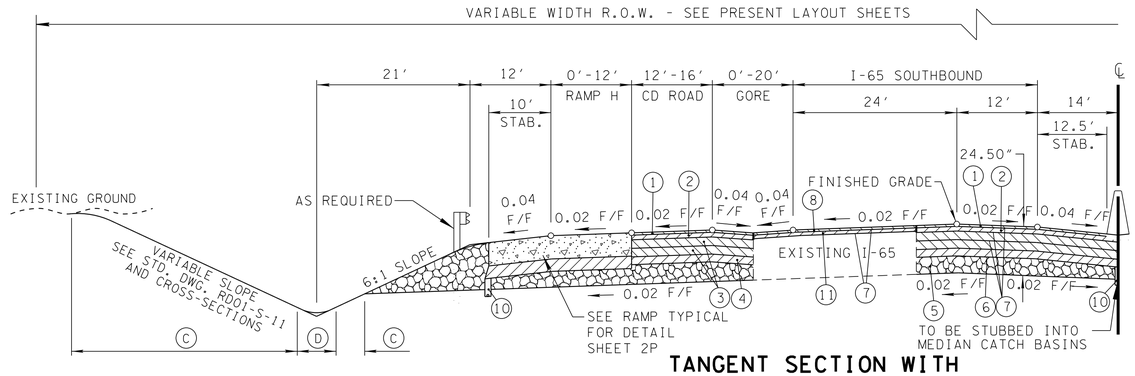
LEFT STA. 1814+00.00 TO 1825+60.00
RIGHT STA. 1814+00.00 TO 1832+50.00



TANGENT SECTION WITH CD ROAD

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1840+00.00 TO 1848+76.75
LEFT STA. 1860+59.70 TO 1865+00.00
RIGHT STA. 1832+50.00 TO 1861+76.66



TANGENT SECTION WITH CD ROAD & RAMP H

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1825+60.00 TO 1840+00.00

(A) FINISHED GRADE POINT TRANSITIONS AT 70:1 RATE TO MATCH EXISTING. BEGIN SOUTHBOUND TRANSITION AT STA. 1814+00, 29.47′ LT. AND ENDS STA. 1816+42.90, 26′ LT. BEGIN NORTHBOUND TRANSITION AT STA. 1814+00, 30.12′ RT. AND ENDS STA. 1816+88.40, 26′ RT.

(B) OUTSIDE EDGES OF PAVEMENT TRANSITION TO MATCH EXISTING AT STA. 1814+00 AS FOLLOWS AT 70:1 RATE:
BEGIN STA. 1814+00, 54′ LT.
END STA. 1816+80, 50′ LT.
BEGIN STA. 1814+00, 55.11′ RT.
END STA. 1817+57.70, 50′ RT.

(C) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(D) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107206
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-65
NOT TO SCALE

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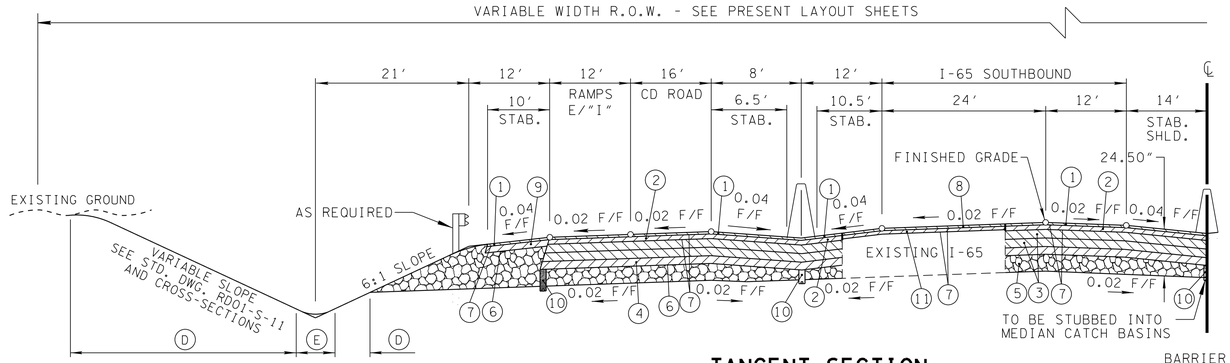
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

I-65 MAINLINE

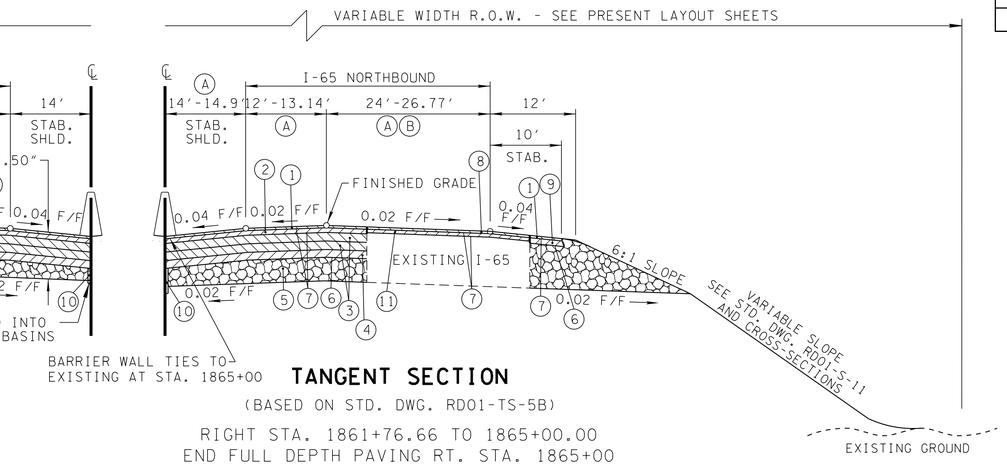
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2A
CONST.	2014	STP/HPP/NH-I-65-3(113)	2E



TANGENT SECTION WITH CD ROAD

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1848+76.75 TO 1860+59.70



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-5B)

RIGHT STA. 1861+76.66 TO 1865+00.00
END FULL DEPTH PAVING RT. STA. 1865+00

TANGENT SECTION OVERLAY WITH CD ROAD & ACCEL/DECEL LANE

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1865+00.00 TO 1893+12.66

RIGHT STA. 1865+00.00 TO 1887+00.00
(OVERLAY FEATHERS OUT TO MATCH EXISTING FROM STA. 1884+00.00 TO STA. 1887+00.00)

TANGENT SECTION WITH CD ROAD

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1893+12.66 TO 1896+94.28

(A) PAVEMENT WIDTHS TRANSITION TO MATCH EXISTING - SEE SECTIONS AND PROPOSED LAYOUTS.

(B) OUTSIDE EDGE OF PAVEMENT STRIPING FROM 50′ RT. AT STA. 1861+76.66 TO MATCH EXISTING AT 55.5′ RT. AT 1865+65.11.

(C) PAVED LANE WIDTH REQUIRED MAY EXCEED 12′ TO ACCOMMODATE VARIANCES IN EXISTING EDGE OF PAVEMENT.

(D) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(E) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

I-65

NOT TO SCALE

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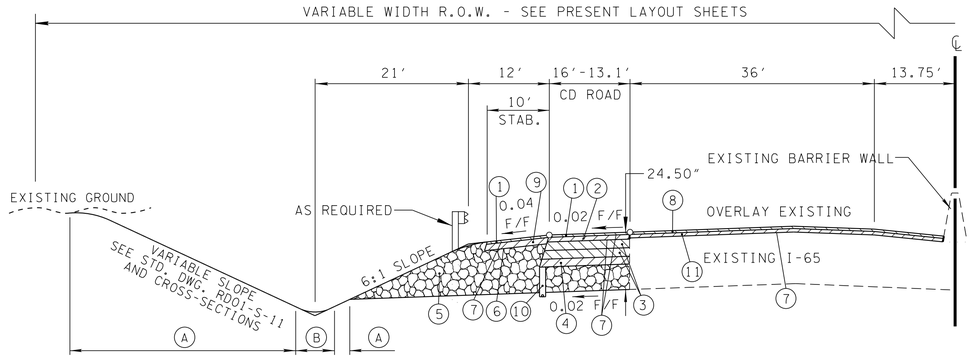
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2B
CONST.	2014	STP/HPP/NH-I-65-3(113)	2F

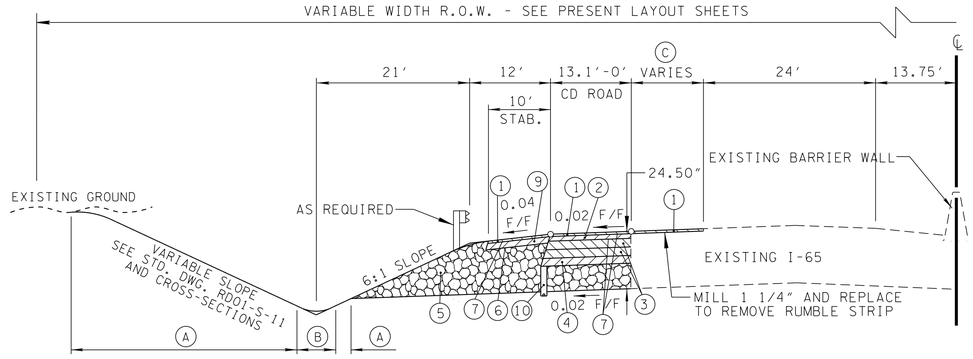
I-65 MAINLINE



TANGENT SECTION WITH CD ROAD

(BASED ON STD. DWG. RD01-TS-5B)

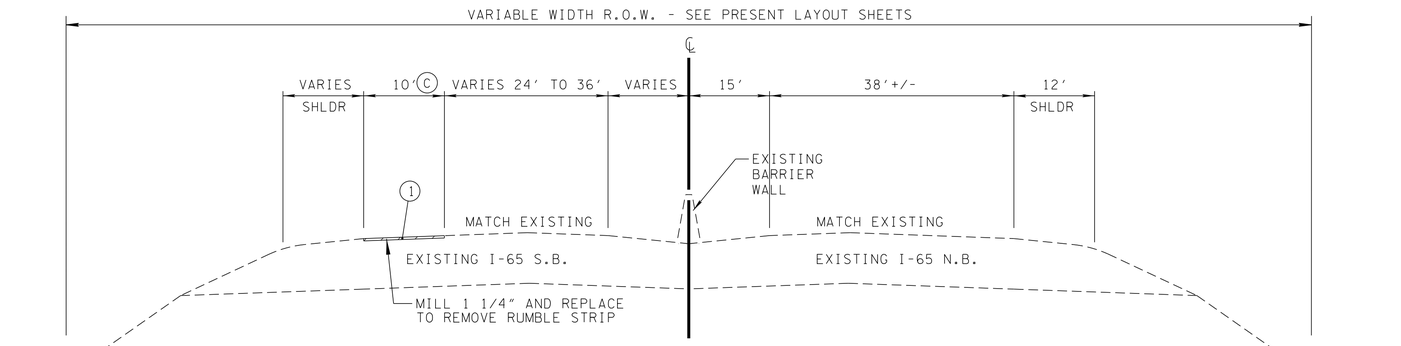
LEFT STA. 1896+94.28 TO 1897+50.00
(OVERLAY FEATHERS OUT TO MATCH EXISTING
FROM STA. 1894+50.00 TO STA. 1897+50.00)



TANGENT SECTION WITH CD ROAD

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1897+50.00 TO 1900+00.00



TANGENT SECTION WITH RUMBLE STRIP OVERLAY

(BASED ON STD. DWG. RD01-TS-5B)

LEFT STA. 1900+00.00 TO 1914+00.00

(A) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(B) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

(C) SEE SHEETS 11A, 12A, & 12D FOR MORE DETAILS.

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COMMERCE
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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-65
NOT TO SCALE

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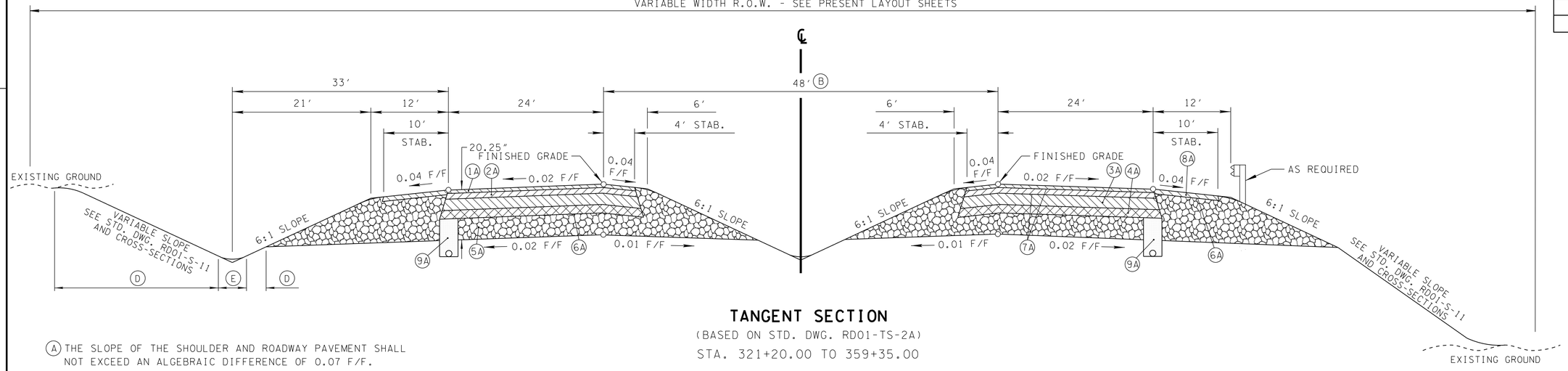
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2G

STATE ROUTE 109 - 4 LN DIVIDED HWY ALTERNATE "A"
STA. 1851+69.99 I-65 = STA. 384+89.99 SR-109



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-2A)

STA. 321+20.00 TO 359+35.00

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-2A FOR DESIGN STANDARDS.

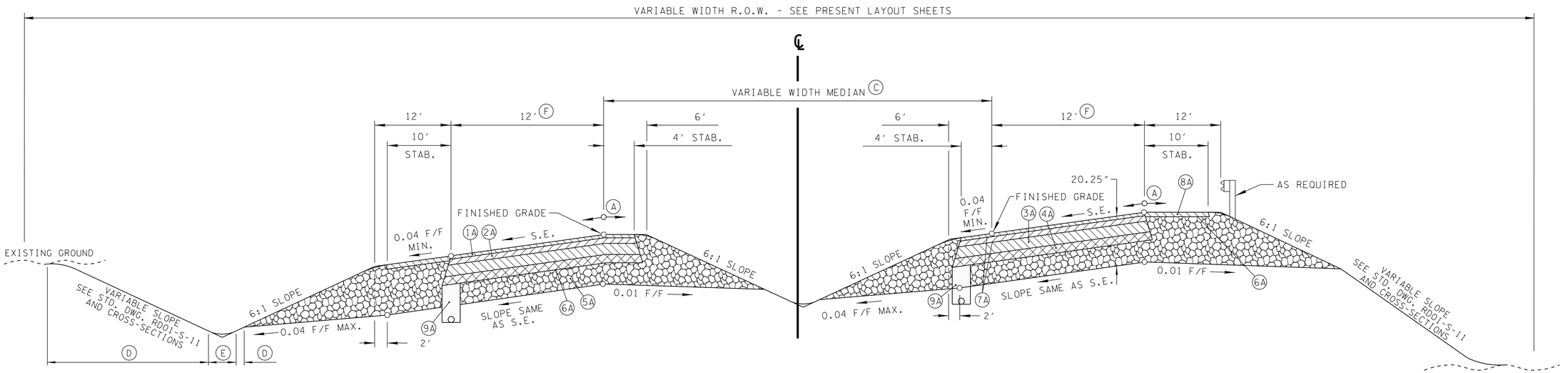
(B) STA. 322+86.72 TO STA. 330+27.72 AND STA. 342+50.00 TO STA. 350+00.00 FOR LEFT TURN LANES. STA. 353+30.00 TO STA. 359+35.00 MEDIAN TRANSITIONS FROM 48′ MEDIAN (STD. DWG. RD01-TS-2A) TO 2′ MEDIAN 4 LN W/RAISED MEDIAN (STD. DWG. RD01-TS-2B) AT STA. 360+50.00.

(C) STA. 308+00.00 TO STA. 321+20.00 MEDIAN TRANSITIONS FROM EXIST. 2 LN TO 48′ MEDIAN (STD. DWG. RD01-TS-2A) 4 LN DIVIDED HWY.

(D) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(E) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

(F) PAVEMENT TRANSITIONS FROM 12′ TO 24′ FROM STA. 320+00.00 TO 321+20.00.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2A)

STA. 308+00.00 TO 321+20.00

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TYPICAL SECTIONS
SR 109
NOT TO SCALE

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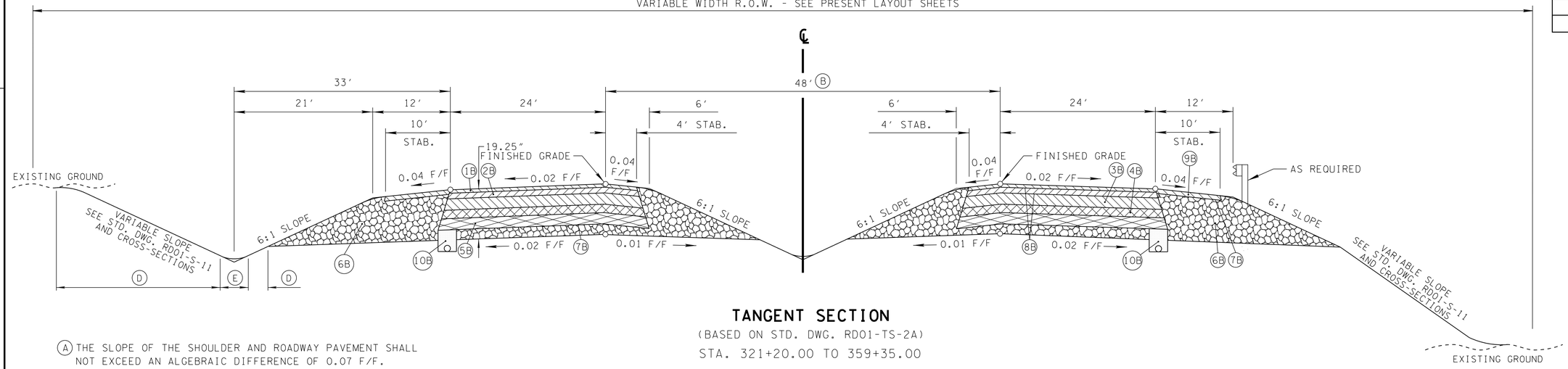
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2G
CONST.	2014	STP/HPP/NH-I-65-3(113)	2H

STATE ROUTE 109 - 4 LN DIVIDED HWY ALTERNATE "B"
STA. 1851+69.99 I-65 = STA. 384+89.99 SR-109



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-2A)

STA. 321+20.00 TO 359+35.00

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-2A FOR DESIGN STANDARDS.

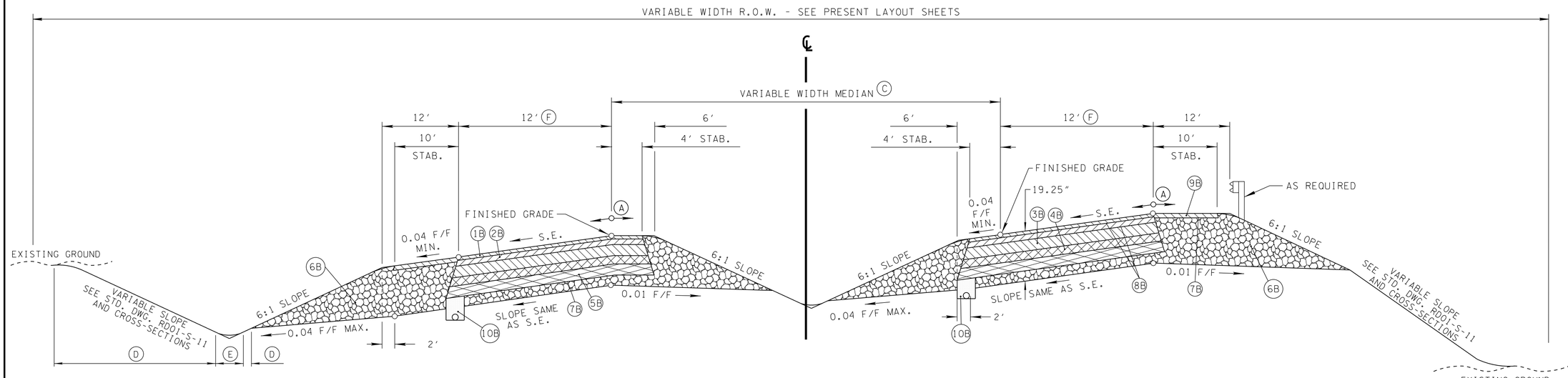
(B) STA. 322+86.72 TO STA. 330+27.72 AND STA. 342+50.00 TO STA. 350+00.00 FOR LEFT TURN LANES. STA. 353+30.00 TO STA. 359+35.00 MEDIAN TRANSITIONS FROM 48′ MEDIAN (STD. DWG. RD01-TS-2A) TO 2′ MEDIAN 4 LN W/RAISED MEDIAN (STD. DWG. RD01-TS-2B) AT STA. 360+50.00.

(C) STA. 308+00.00 TO STA. 321+20.00 MEDIAN TRANSITIONS FROM EXIST. 2 LN TO 48′ MEDIAN (STD. DWG. RD01-TS-2A) 4 LN DIVIDED HWY.

(D) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(E) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

(F) PAVEMENT TRANSITIONS FROM 12′ TO 24′ FROM STA. 320+00.00 TO 321+20.00.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2A)

STA. 308+00.00 TO 321+20.00

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TYPICAL SECTIONS
SR 109
NOT TO SCALE

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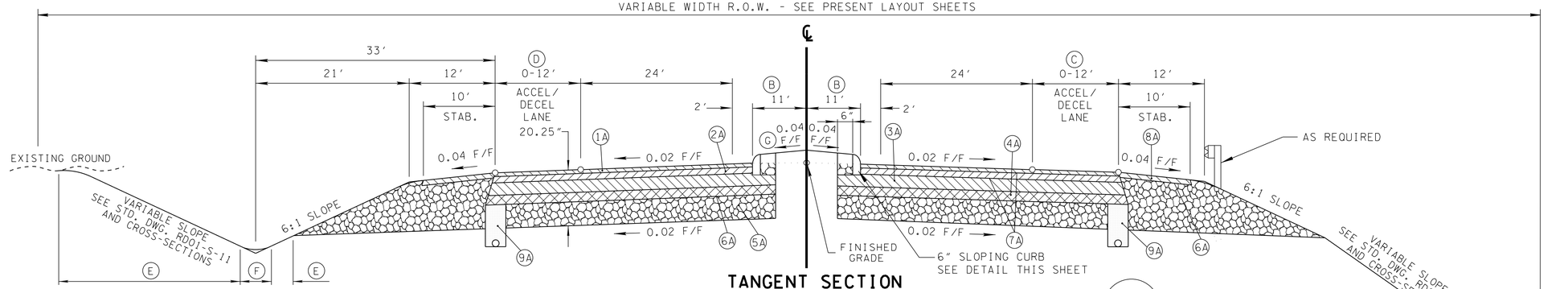
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2"I"

STATE ROUTE 109 - 4 LN W/RAISED MEDIAN ALTERNATE "A"
STA. 1851+69.99 I-65 = STA. 384+89.99 SR-109
STA. 362+36.28 SR-109 = STA. 1132+15.02 SR-41 LT & RT

VARIABLE WIDTH R.O.W. - SEE PRESENT LAYOUT SHEETS



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-2B)

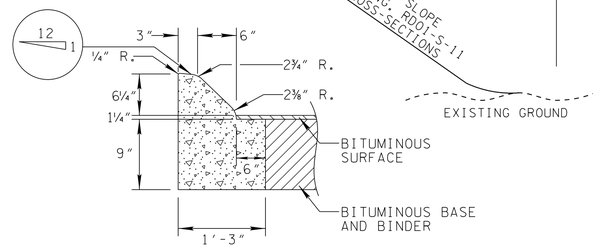
STA. 359+35.00 TO 367+28.14
STA. 375+31.82 TO 387+30.07
STA. 401+67.82 TO 403+27.67

Ⓐ THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-2B FOR DESIGN STANDARDS.

Ⓑ WIDTH OF RAISED MEDIAN VARIES DUE TO LEFT TURN LANES. (SEE LEFT TURN LANE DETAIL THIS SHEET)
2' TOTAL WIDTH
STA. 362+92.00 TO STA. 367+07.50
VARIES 2' TO 23.30'
STA. 367+07.50 TO STA. 370+90.00
10' TOTAL WIDTH
STA. 371+40.00 TO STA. 372+90.00
STA. 381+55.00 TO STA. 382+40.00
STA. 390+60.00 TO STA. 392+10.00
STA. 403+80.00 TO STA. 405+30.00

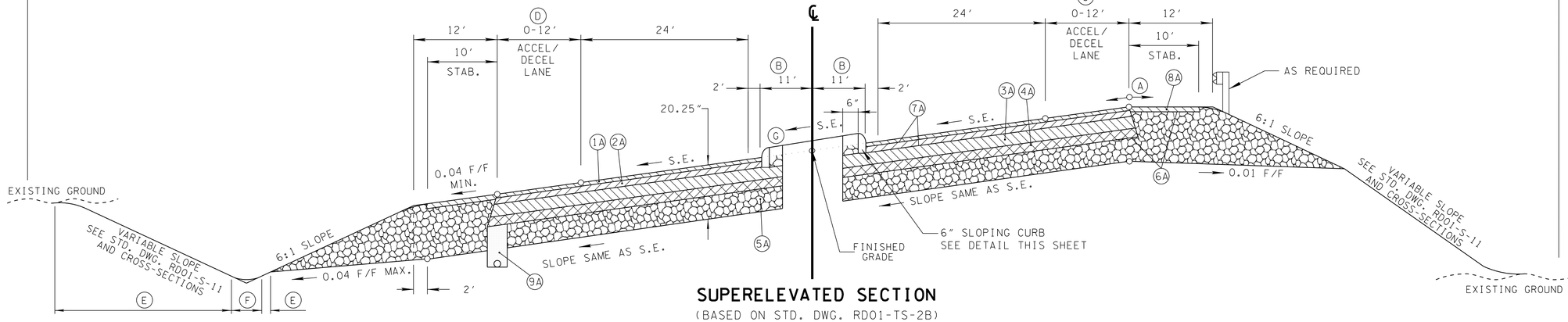
WIDTH OF RAISED MEDIAN VARIES DUE TO LEFT TURN LANES. (SEE LEFT TURN LANE DETAIL THIS SHEET)
VARIES 10' TO 22'
STA. 372+90.00 TO STA. 379+96.00
STA. 382+40.00 TO STA. 384+80.00
STA. 388+20.00 TO STA. 390+60.00
STA. 399+40.64 TO STA. 403+30.64
STA. 405+30.00 TO STA. 406+90.00
VARIES 2' TO 10'
STA. 380+77.00 TO STA. 381+55.00
22' TOTAL WIDTH
STA. 384+80.00 TO STA. 388+20.00
STA. 392+94.00 TO STA. 399+40.64



6" SLOPING DETACHED
CONCRETE CURB TYPE "B"

NOTE: FOR DETAILS NOT SHOWN, SEE STD. DWG. NO. RP-MC-2

VARIABLE WIDTH R.O.W. - SEE PRESENT LAYOUT SHEETS



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2B)

STA. 367+28.14 TO 375+31.82
STA. 387+30.07 TO 401+67.82
STA. 403+27.67 TO 406+90.00

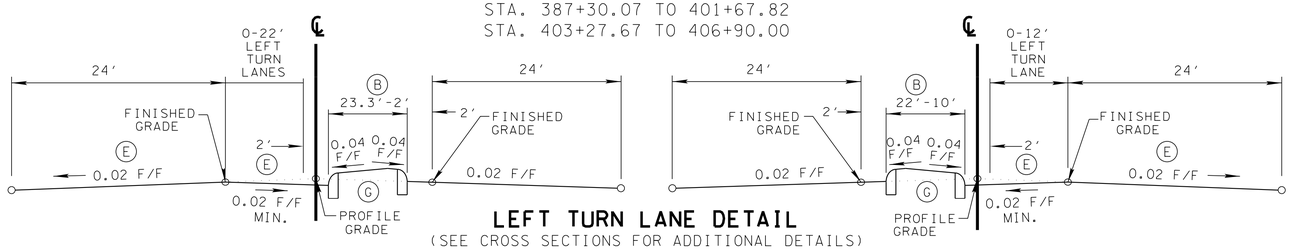
Ⓒ VARIES 0 TO 12'
STA. 372+63.
STA. 375+13.

Ⓓ VARIES 0 TO 12'
STA. 384+32.01 TO STA. 387+32.01
STA. 399+38.30 TO STA. 401+88.30
STA. 387+32.01 TO STA. 388+62.01
STA. 395+08.30 TO STA. 399+38.30

Ⓔ SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

Ⓕ SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

Ⓖ RAISED MEDIAN TO BE SODDED IN ALL AREAS EXCEPT WHERE WIDTH IS LESS THAN 6'. THOSE AREAS WILL BE CONCRETE.



LEFT TURN LANE DETAIL

(SEE CROSS SECTIONS FOR ADDITIONAL DETAILS)

LT.	RT.
STA. 362+96.00 TO STA. 307+07.50	STA. 359+35.00 TO STA. 361+66.00
STA. 371+40.00 TO STA. 372+90.00	STA. 390+60.00 TO STA. 392+10.00
STA. 380+67.00 TO STA. 382+40.00	STA. 403+80.00 TO STA. 405+30.00
STA. 401+80.64 TO STA. 403+30.64	

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SR 109
NOT TO SCALE

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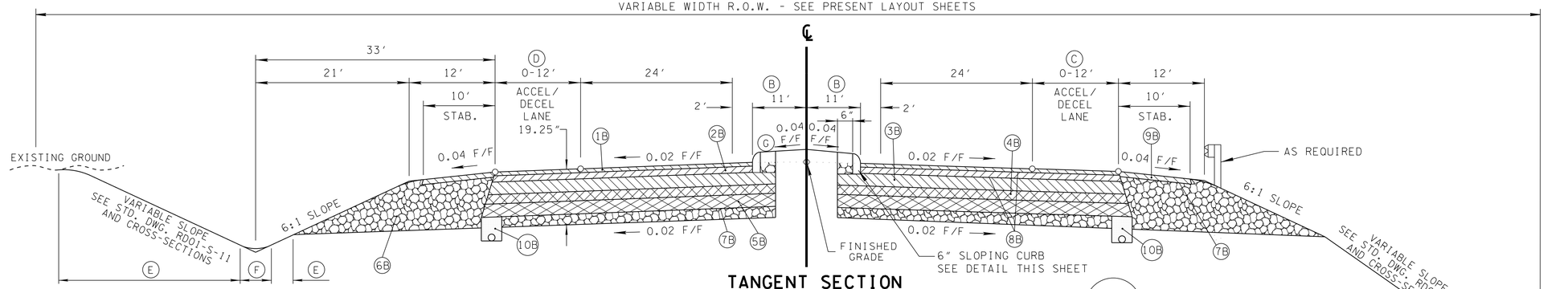
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2J

STATE ROUTE 109 - 4 LN W/RAISED MEDIAN ALTERNATE "B"
STA. 1851+69.99 I-65 = STA. 384+89.99 SR-109
STA. 362+36.28 SR-109 = STA. 1132+15.02 SR-41 LT & RT

VARIABLE WIDTH R.O.W. - SEE PRESENT LAYOUT SHEETS



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-2B)

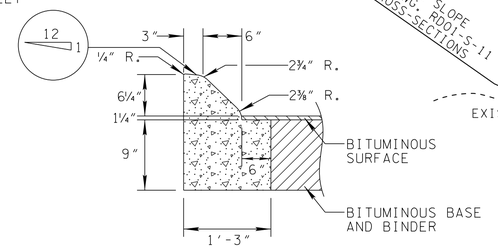
STA. 359+35.00 TO 367+28.14
STA. 375+31.82 TO 387+30.07
STA. 401+67.82 TO 403+27.67

Ⓐ THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-2B FOR DESIGN STANDARDS.

Ⓑ WIDTH OF RAISED MEDIAN VARIES DUE TO LEFT TURN LANES. (SEE LEFT TURN LANE DETAIL THIS SHEET)
2′ TOTAL WIDTH
STA. 362+92.00 TO STA. 367+07.50
VARIES 2′ TO 23.30′
STA. 367+07.50 TO STA. 370+90.00
10′ TOTAL WIDTH
STA. 371+40.00 TO STA. 372+90.00
STA. 381+55.00 TO STA. 382+40.00
STA. 390+60.00 TO STA. 392+10.00
STA. 403+80.00 TO STA. 405+30.00

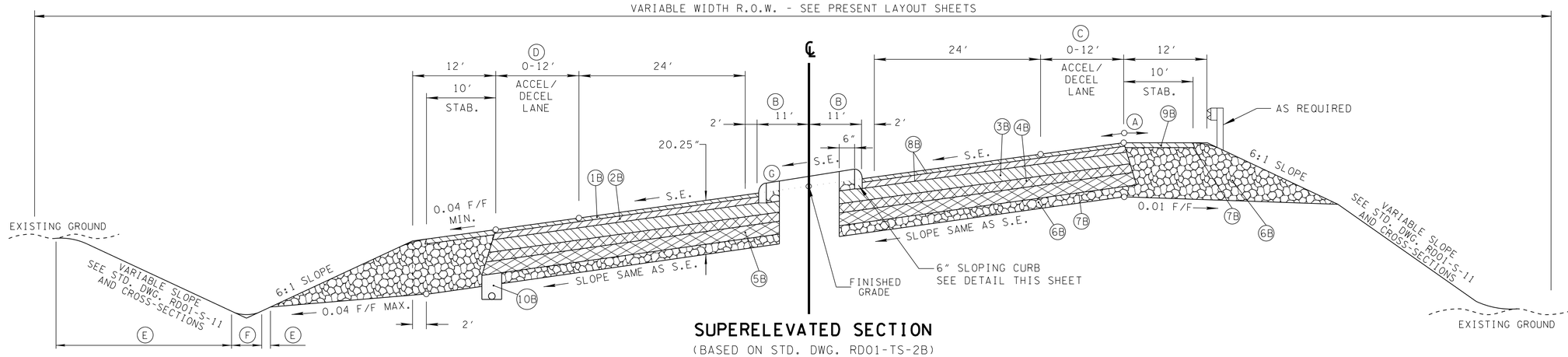
WIDTH OF RAISED MEDIAN VARIES DUE TO LEFT TURN LANES. (SEE LEFT TURN LANE DETAIL THIS SHEET)
VARIES 10′ TO 22′
STA. 372+90.00 TO STA. 379+96.00
STA. 382+40.00 TO STA. 384+80.00
STA. 388+20.00 TO STA. 390+60.00
STA. 399+40.64 TO STA. 403+30.64
STA. 405+30.00 TO STA. 406+90.00
VARIES 2′ TO 10′
STA. 380+77.00 TO STA. 381+55.00
22′ TOTAL WIDTH
STA. 384+80.00 TO STA. 388+20.00
STA. 392+94.00 TO STA. 399+40.64



6″ SLOPING DETACHED
CONCRETE CURB TYPE "B"

NOTE: FOR DETAILS NOT SHOWN, SEE STD. DWG. NO. RP-MC-2

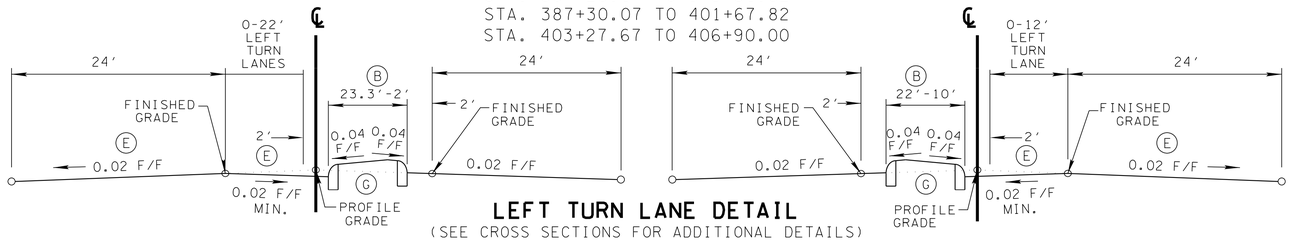
VARIABLE WIDTH R.O.W. - SEE PRESENT LAYOUT SHEETS



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2B)

STA. 367+28.14 TO 375+31.82
STA. 387+30.07 TO 401+67.82
STA. 403+27.67 TO 406+90.00



LEFT TURN LANE DETAIL

(SEE CROSS SECTIONS FOR ADDITIONAL DETAILS)

LT.	RT.
STA. 362+96.00 TO STA. 307+07.50	STA. 359+35.00 TO STA. 361+66.00
STA. 371+40.00 TO STA. 372+90.00	STA. 390+60.00 TO STA. 392+10.00
STA. 380+67.00 TO STA. 382+40.00	STA. 403+80.00 TO STA. 405+30.00
STA. 401+80.64 TO STA. 403+30.64	

Ⓒ VARIES 0 TO 12′
STA. 372+63.
STA. 375+13.

Ⓓ VARIES 0 TO 12′
STA. 384+32.01 TO STA. 387+32.01
STA. 399+38.30 TO STA. 401+88.30
STA. 387+32.01 TO STA. 388+62.01
STA. 395+08.30 TO STA. 399+38.30

Ⓔ SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

Ⓕ SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

Ⓖ RAISED MEDIAN TO BE SODDED IN ALL AREAS EXCEPT WHERE WIDTH IS LESS THAN 6′. THOSE AREAS WILL BE CONCRETE.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SR 109
NOT TO SCALE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2D
CONST.	2014	STP/HPP/NH-I-65-3(113)	2K

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

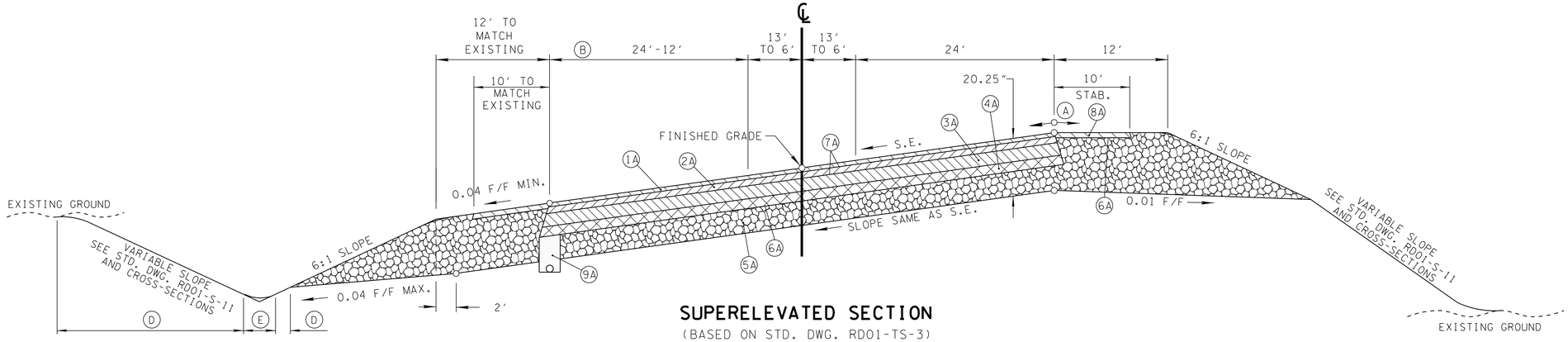
SEE STD. DWG. RD01-TS-3 FOR DESIGN STANDARDS.

(B) VARIES 24 TO 12'
STA. 406+90.00 TO STA. 409+30.00 LT.
12'

(C) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

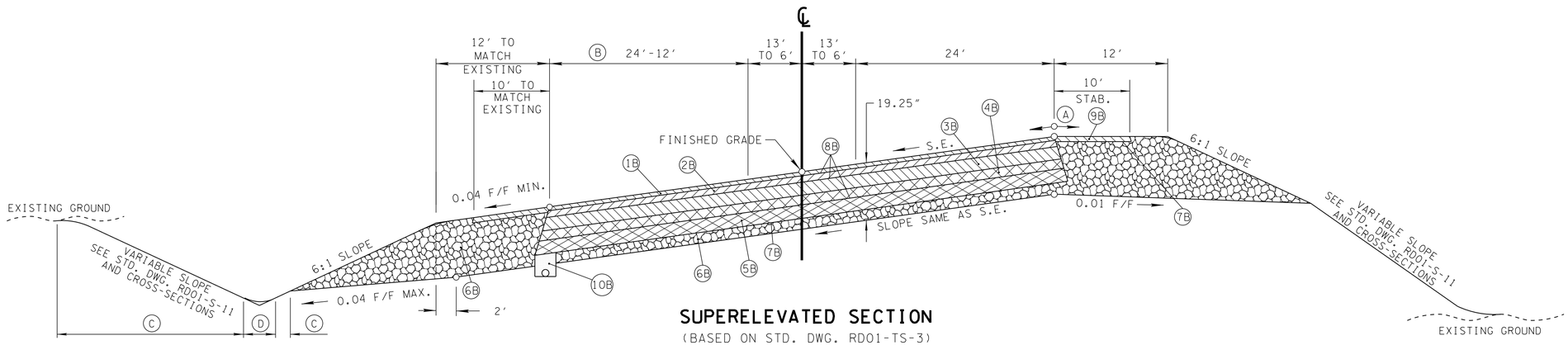
(D) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

STATE ROUTE 109 - 3 LN ALTERNATE "A"
STA. 1851+69.99 I-65 = STA. 384+89.99 SR-109



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-3)
STA. 406+90.00 TO 410+00.00

STATE ROUTE 109 - 3 LN ALTERNATE "B"
STA. 1851+69.99 I-65 = STA. 384+89.99 SR-109



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-3)
STA. 406+90.00 TO 410+00.00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SR 109
NOT TO SCALE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2L

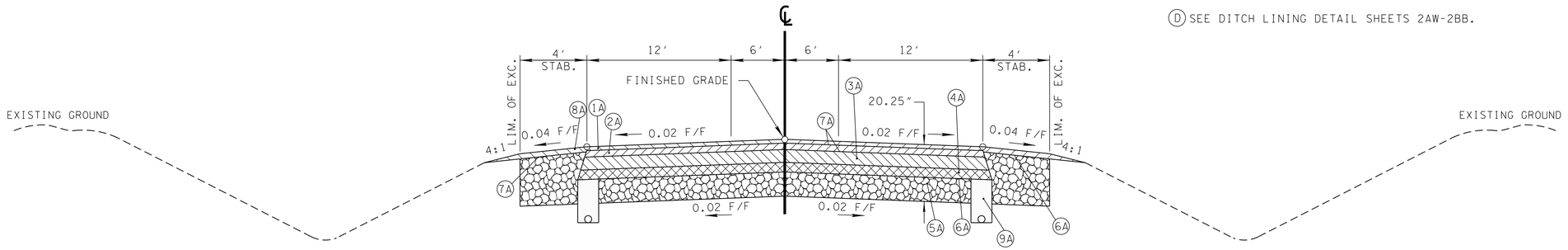
(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-3 FOR DESIGN STANDARDS.

(B) VARIES 24' TO 12'
STA. 414+50.00 TO STA. 417+70.00

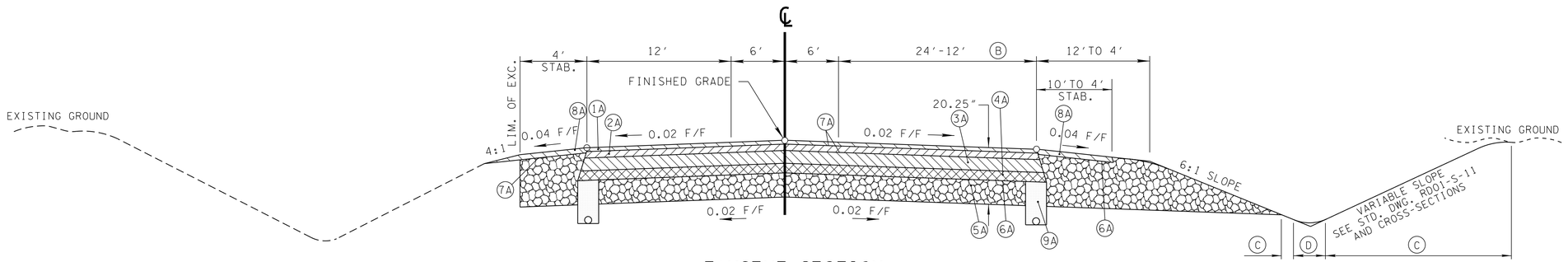
(C) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(D) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.



TANGENT SECTION

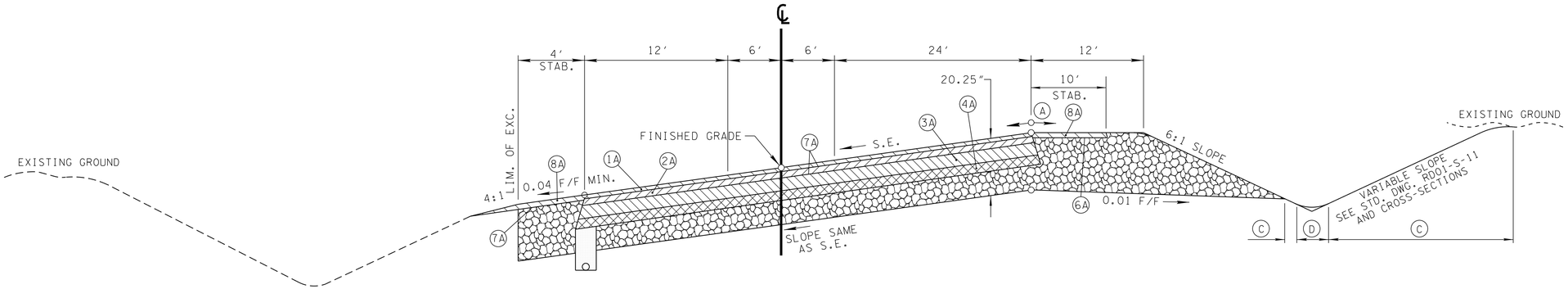
STA. 417+70.00 TO 420+32.50



TANGENT SECTION

(RIGHT SIDE BASED ON STD. DWG. RD01-TS-3)

STA. 411+95.53 TO 417+70.00



SUPERELEVATED SECTION

(RIGHT SIDE BASED ON STD. DWG. RD01-TS-3)

STA. 410+00.00 TO 411+95.53

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SR 109

NOT TO SCALE

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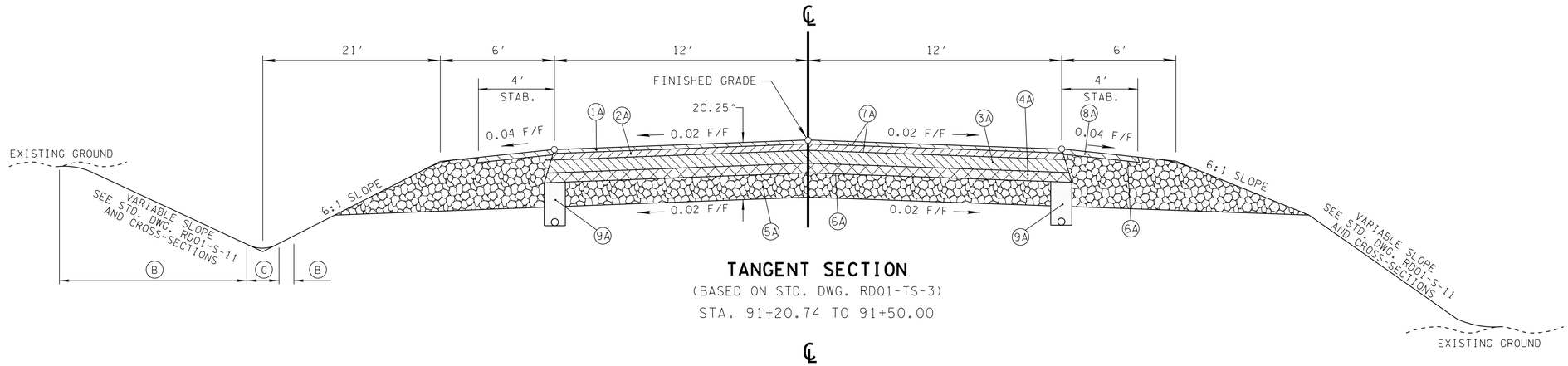
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2M

ALTERNATE "A"

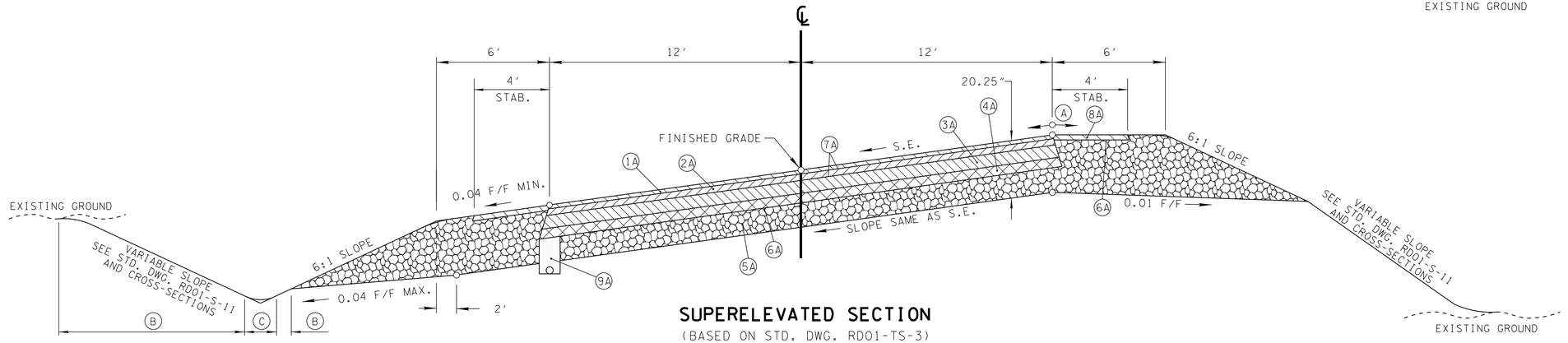
OLD STATE ROUTE 109 TIE 2 LN
RT. STA. 322+52.72



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-3)

STA. 91+20.74 TO 91+50.00



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-3)

STA. 85+00.00 TO 91+20.74

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-3 FOR DESIGN STANDARDS.

(B) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

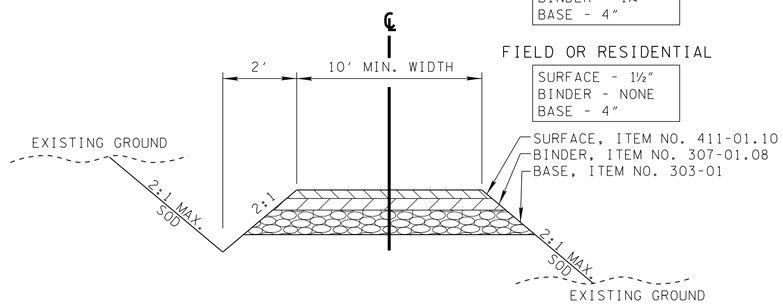
(C) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

BUSINESS

SURFACE - 1¼″
BINDER - 1¾″
BASE - 4″

FIELD OR RESIDENTIAL

SURFACE - 1½″
BINDER - NONE
BASE - 4″



CUT SECTION FILL SECTION

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

NOTE:

1. DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER.
2. WHERE SURFACE OF EXISTING DRIVE IS CONCRETE, SUBSTITUTE 6" CONCRETE FOR SURFACE.
3. 12:1 SLOPE IN ASPHALT PARKING LOTS.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
&
COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
OLD SR 109, DRIVEWAYS

NOT TO SCALE

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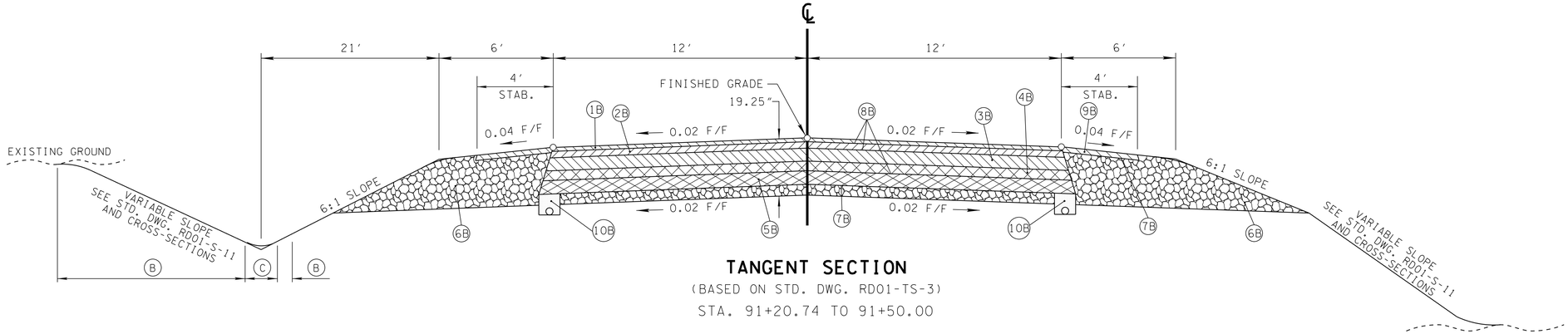
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2E
CONST.	2014	STP/HPP/NH-I-65-3(113)	2N

ALTERNATE "B"

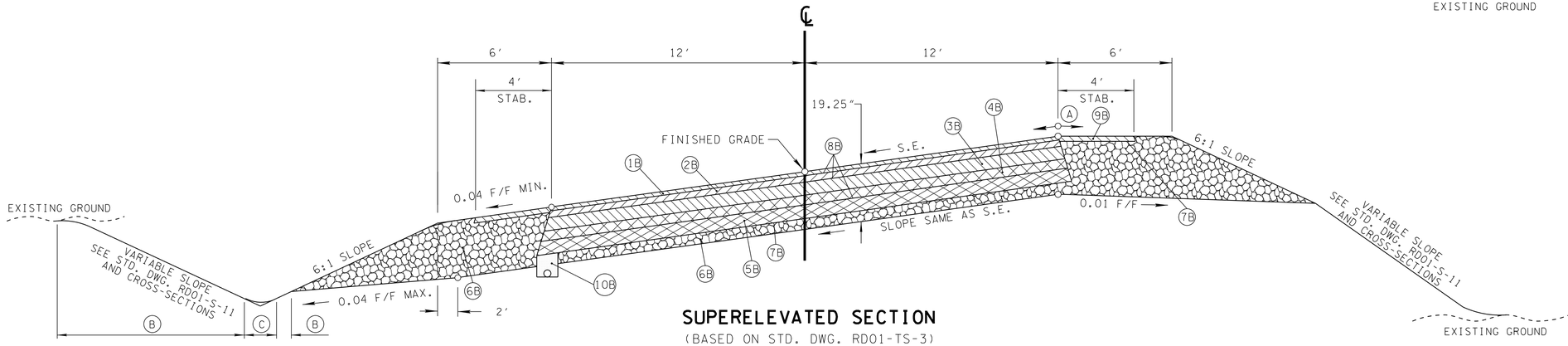
OLD STATE ROUTE 109 TIE 2 LN
RT. STA. 322+52.72



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-3)

STA. 91+20.74 TO 91+50.00



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-3)

STA. 85+00.00 TO 91+20.74

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-3 FOR DESIGN STANDARDS.

(B) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

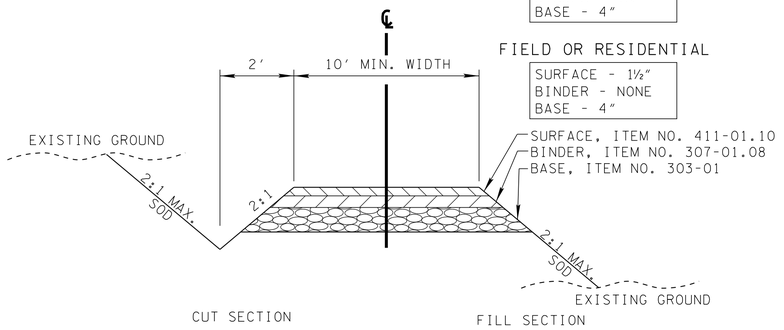
(C) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

BUSINESS

SURFACE - 1¼"
BINDER - 1¾"
BASE - 4"

FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NONE
BASE - 4"



TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

NOTE:

1. DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER.
2. WHERE SURFACE OF EXISTING DRIVE IS CONCRETE, SUBSTITUTE 6" CONCRETE FOR SURFACE.
3. 12:1 SLOPE IN ASPHALT PARKING LOTS.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
OLD SR 109, DRIVEWAYS
NOT TO SCALE

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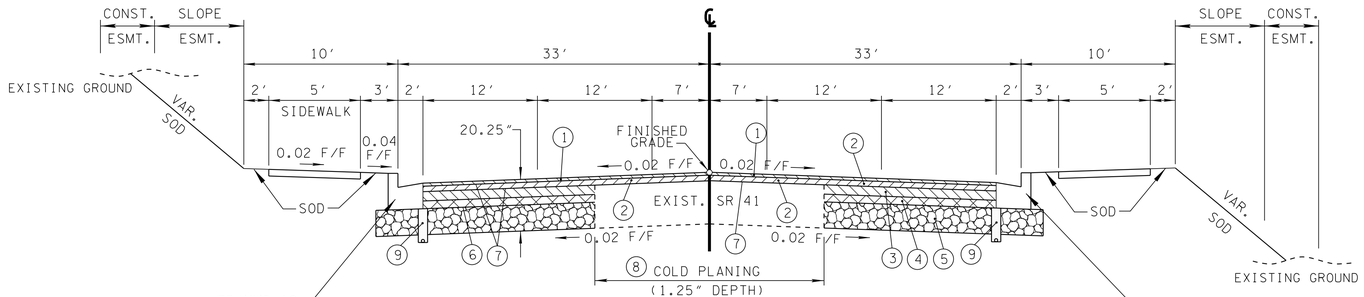
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2F
CONST.	2014	STP/HPP/NH-I-65-3(113)	2"O"

STATE ROUTE 41 RT - LN ADDITIONS
STA. 362+36.28 SR-109 = STA. 1132+15.02 SR-41 RT



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6A)

STA. 1132+72.00 TO 1146+00.00

STATE ROUTE 41 RT - LN ADDITIONS
STA. 362+36.28 SR-109 = STA. 1132+15.02 SR-41 RT

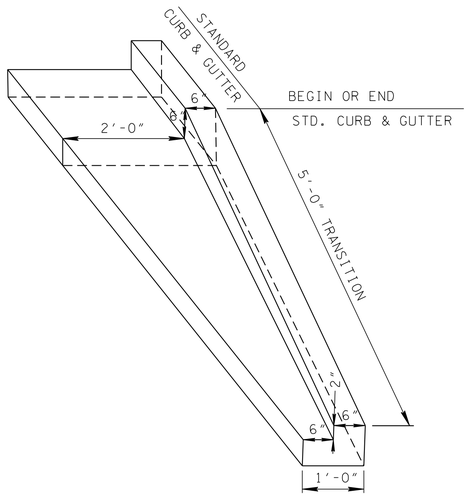
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6A)

STA. 1146+00.00 TO 1154+76.47

NOTE: DISTANCE FINISHED GRADE IS ABOVE EXIST. ROADWAY VARIES FROM 0.46' TO 1.29'+/- REQUIRING USE OF PAVING LAYERS (3) AND SOMETIMES (4) ABOVE THE EXISTING ROADWAY.

UNOFFICIAL SET
NOT FOR BIDDING



TRANSITION DETAIL FOR
CONCRETE CURB & GUTTER

N.T.S.

STATE ROUTE 41 LT - LN ADDITIONS
STA. 362+36.28 SR-109 = STA. 1132+15.02 SR-41 LT

TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6A)

STA. 1122+50.00 TO 1131+60.00

(A) VARIES 0 TO 7'
STA. 1122+90.00 TO STA. 1126+75.00

(B) VARIES 12' TO MATCH EXISTING
STA. 1122+90.00 TO STA. 1122+50.00

(C) VARIES 0' TO 12'
STA. 1126+75.00 TO STA. 1128+55.00
12'
STA. 1128+55.00 TO STA. 1131+60.00

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TYPICAL SECTIONS
SR 41
NOT TO SCALE

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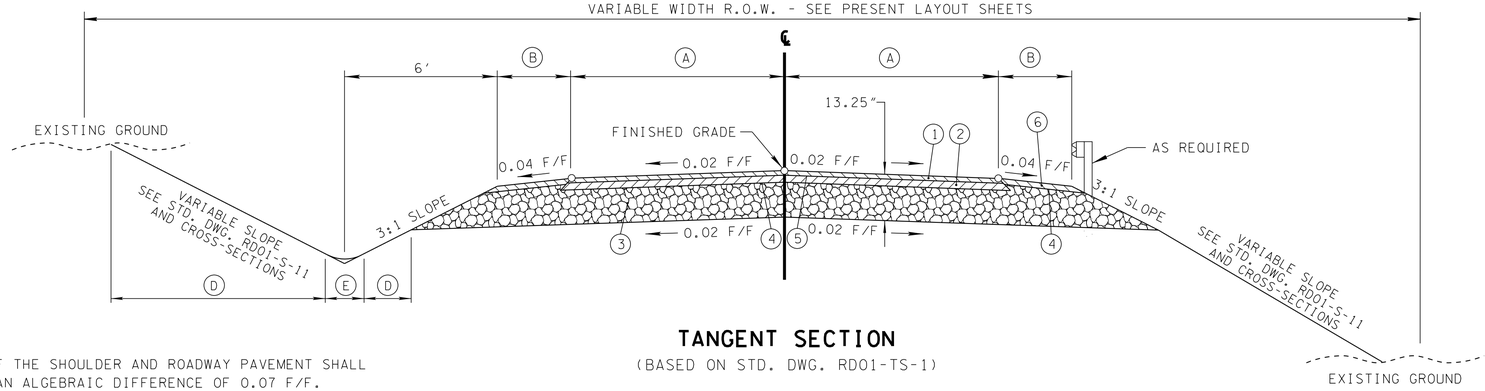
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2G
CONST.	2014	STP/HPP/NH-I-65-3(113)	2P

SIDEROADS



TANGENT SECTION

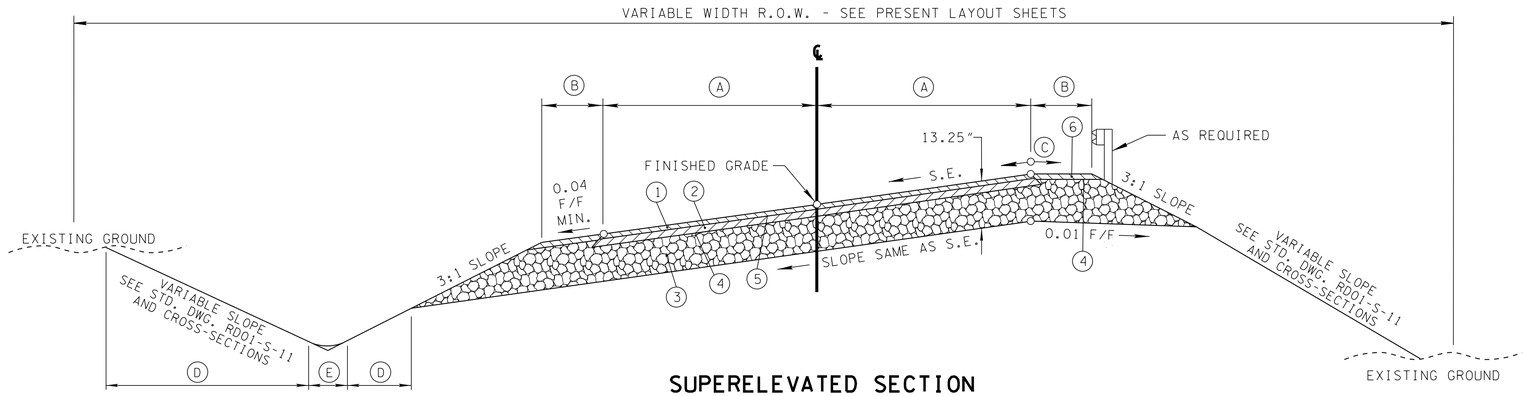
(BASED ON STD. DWG. RD01-TS-1)

(C) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

SEE STD. DWG. RD01-TS-1 FOR DESIGN STANDARDS.

(D) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(E) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1)

ROAD NAME	(A)	(B)
LT. STA. 350+25.00 ..... TGT ROAD TIE	10'	5'
RT. STA. 371+18.00 ..... LAKE SPRINGS ROAD	12'	4'
450.26' RT. STA. 379+86.46 SR-109 ..... LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD.	VARIES	5'
LT. & RT. STA. 403+55.64 ..... EUBANKS ROAD	10'	4'
180.03' LT. STA. 1858+50.80 I-65 ..... S. OLD DETOUR ROAD TIE TO LAKE SPRINGS ROAD	11'	5'
RT. STA. 28+29.86 EUBANKS ROAD LT. ..... FRONTAGE ROAD (STD. DWG. RD-01-TS-1A)	11'	2'

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SIDEROADS
NOT TO SCALE

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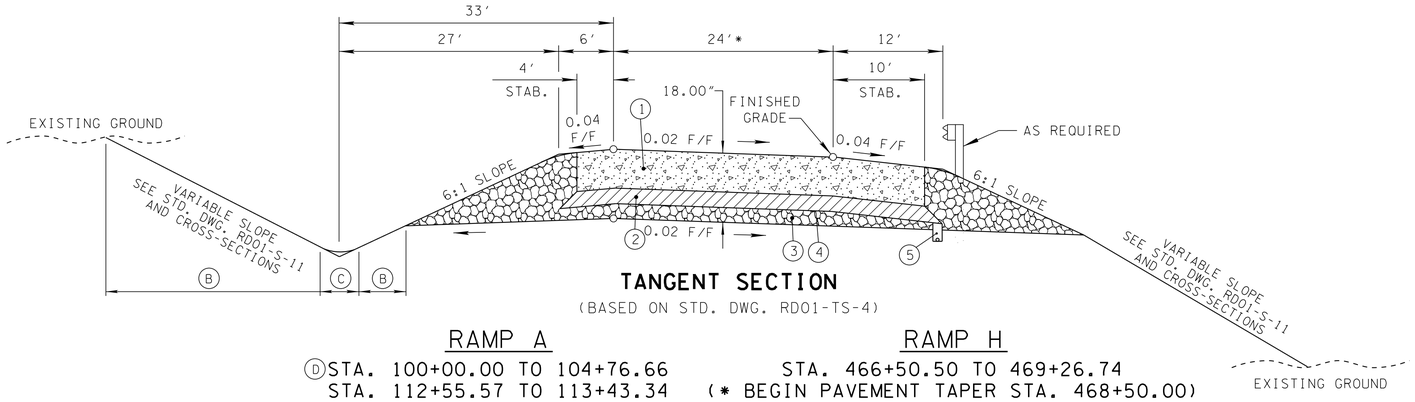
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2H
CONST.	2014	STP/HPP/NH-I-65-3(113)	2O

I-65 INTERCHANGE RAMPS



TANGENT SECTION

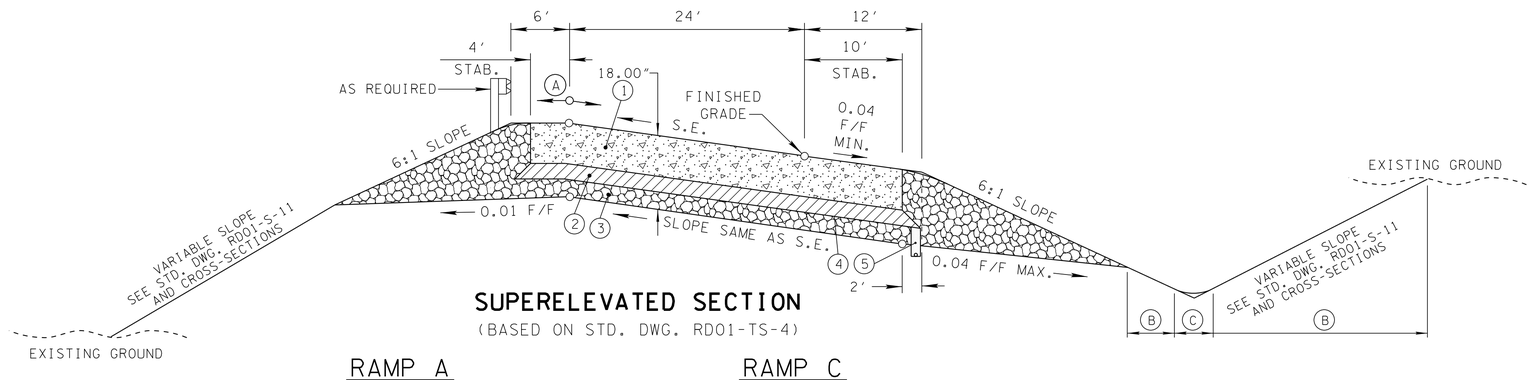
(BASED ON STD. DWG. RD01-TS-4)

RAMP A

(D)STA. 100+00.00 TO 104+76.66
STA. 112+55.57 TO 113+43.34

RAMP H

STA. 466+50.50 TO 469+26.74
(* BEGIN PAVEMENT TAPER STA. 468+50.00)



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4)

RAMP A

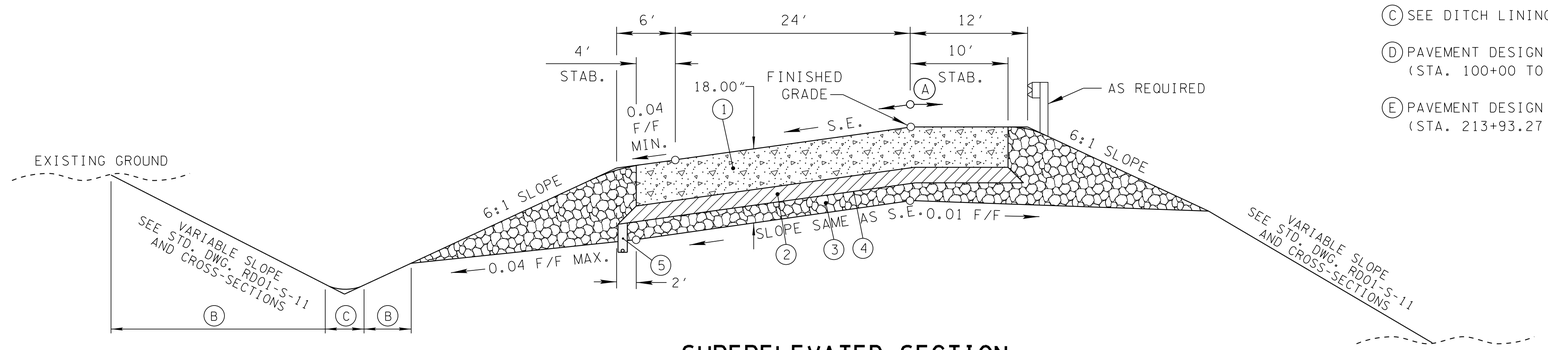
(D)STA. 104+76.66 TO 112+55.57

RAMP C

STA. 202+50.30 TO 203+04.30
(E)STA. 208+36.48 TO 217+84.74

RAMP H

STA. 453+64.12 TO 454+60.87



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4)

RAMP A

STA. 113+43.34 TO 117+20.64

RAMP C

STA. 203+87.83 TO 208+21.70

RAMP H

STA. 454+60.87 TO 466+50.50

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.077 F/F.

(B) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(C) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

(D) PAVEMENT DESIGN FOR RAMP A WILL MATCH I-65 (STA. 100+00 TO 106+15.37).

(E) PAVEMENT DESIGN FOR RAMP C WILL MATCH I-65 (STA. 213+93.27 TO 217+84.74).

UNOFFICIAL SET
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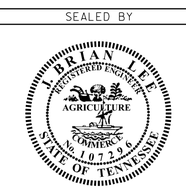

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

RAMPS A,C,H

NOT TO SCALE

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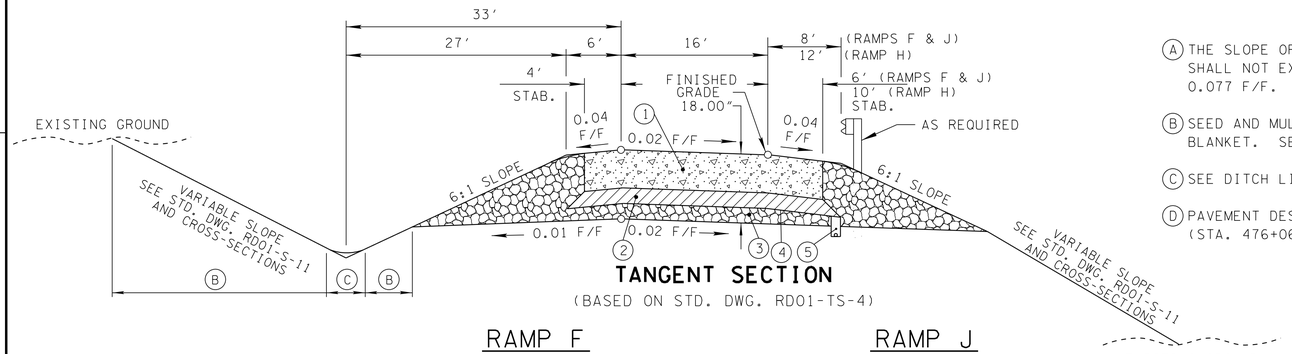
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2"I"
CONST.	2014	STP/HPP/NH-I-65-3(113)	2R

I-65 INTERCHANGE RAMPS



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-4)

Ⓐ THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.077 F/F.

Ⓑ SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

Ⓒ SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

Ⓓ PAVEMENT DESIGN FOR RAMP H WILL MATCH CD-ROAD (STA. 476+06.60 TO 479+35.34).

Ⓔ PAVEMENT DESIGN FOR RAMP J WILL MATCH CD-ROAD (STA. 550+00 TO 555+21.58).

Ⓕ PAVEMENT DESIGN FOR RAMP "I" WILL MATCH CD-ROAD (STA. 501+79.71 TO 503+41).

Ⓖ PAVEMENT DESIGN FOR RAMP E WILL MATCH CD-ROAD (STA. 300+00 TO 301+77.28).

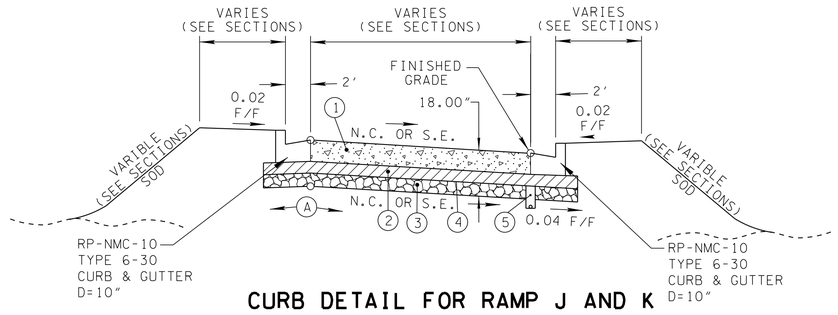
RAMP F

STA. 351+26.00 TO 352+46.00 Ⓔ STA. 550+00.00 TO 556+96.40

RAMP H

STA. 466+50.50 TO 469+26.74

SEE DETAIL BELOW FOR TRANSITION DETAIL FOR CONCRETE CURB & GUTTER



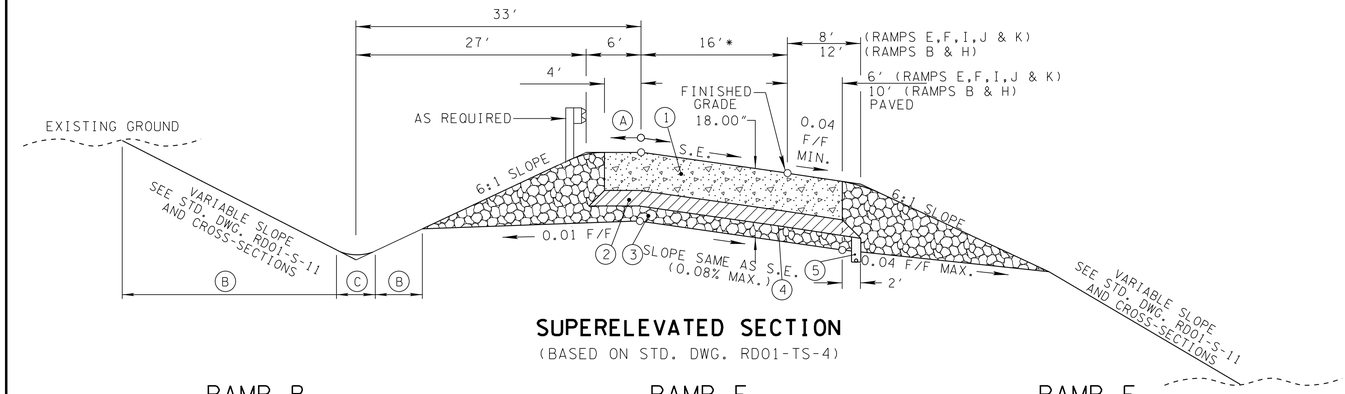
CURB DETAIL FOR RAMP J AND K

RAMP J

STA. 559+50.00 TO 561+83.10

RAMP K

STA. 601+20.00 TO 602+76.61



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4)

RAMP B

STA. 150+82.04 TO 153+29.11

RAMP E

Ⓖ STA. 300+00.00 TO 324+22.28

RAMP F

STA. 350+00.00 TO 351+26.00

RAMP H

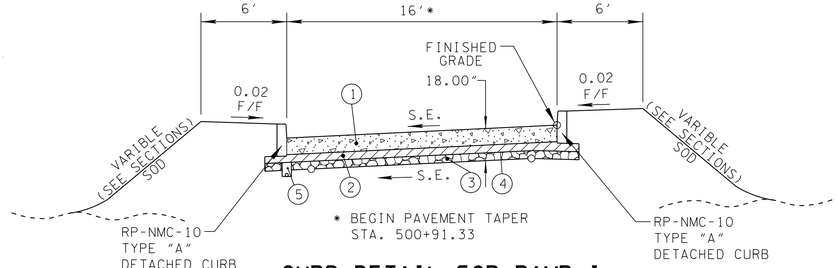
STA. 450+40.13 TO 453+64.12
(* VARIES 16' TO 12')
Ⓓ STA. 469+26.74 TO 479+35.34
(* END PAVEMENT TAPER STA. 472+50.00)

RAMP I

Ⓕ STA. 501+02.45 TO 503+41.00

RAMP K

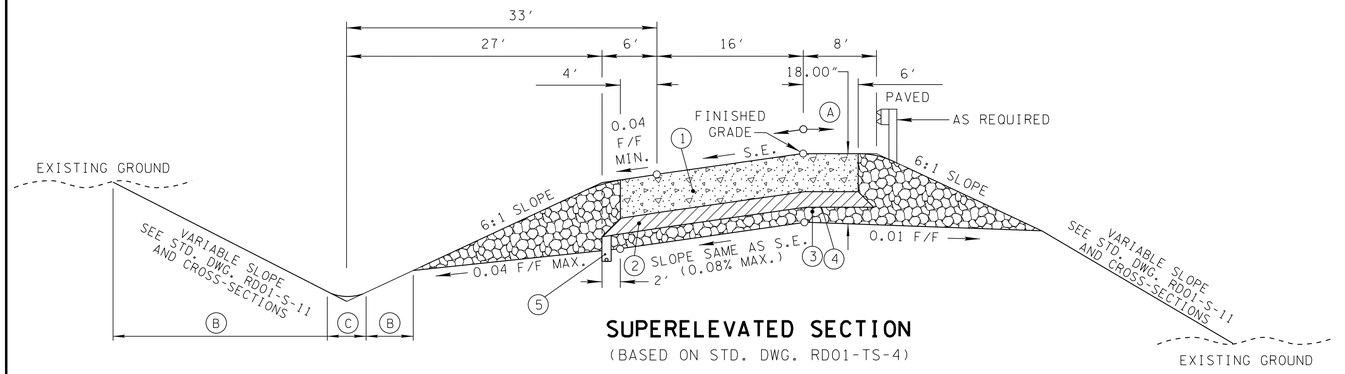
STA. 600+00.00 TO 601+20.00



CURB DETAIL FOR RAMP I

RAMP I

STA. 499+25.00 TO 501+47.00



SUPERELEVATED SECTION

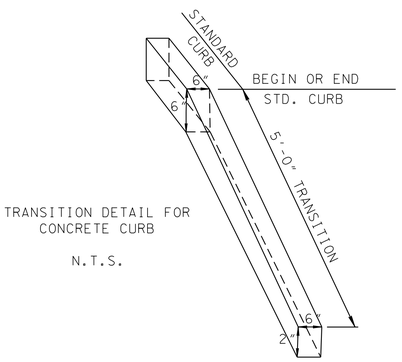
(BASED ON STD. DWG. RD01-TS-4)

RAMP F

STA. 352+46.00 TO 352+98.93

RAMP I

STA. 498+65.00 TO 501+02.45



TRANSITION DETAIL FOR CONCRETE CURB

N.T.S.

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

RAMPS B,E, F,H,I,J,K

NOT TO SCALE

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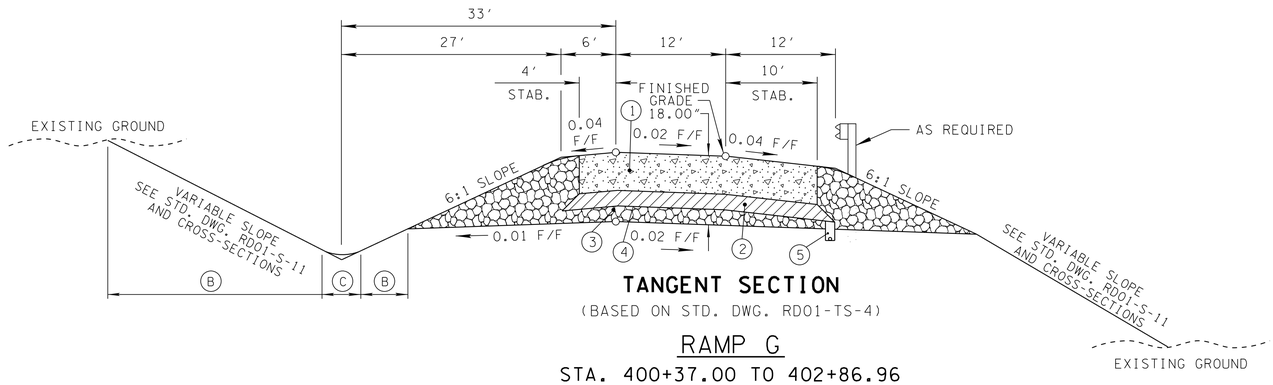
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

I-65 INTERCHANGE RAMPS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2S

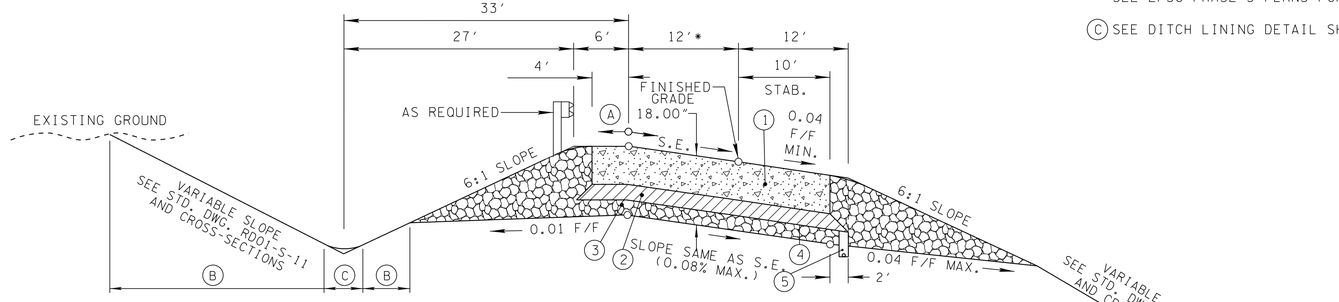


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-4)

RAMP G

STA. 400+37.00 TO 402+86.96



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4)

RAMP C

STA. 200+00.00 TO 202+50.30

RAMP D

STA. 250+37.57 TO 251+66.16

RAMP H

STA. 450+00.00 TO 450+40.13

(* VARIES 12′ TO 16′)

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 F/F.

(B) SEED AND MULCH, OR SEED WITH EROSION CONTROL BLANKET. SEE EPSC PHASE 3 PLANS FOR DETAILS.

(C) SEE DITCH LINING DETAIL SHEETS 2AW-2BB.

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

RAMPS C,D,G,H

NOT TO SCALE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2T

PROPOSED I-65 (FULL DEPTH DESIGN) PAVEMENT SCHEDULE

1	OGFC SURFACE @ 1.25" THICK (110±LB / SY) 411-03.15 - ASPHALT CEMENT (PG76-22) FOR OGFC MIX 411-03.16 - AGGREGATE FOR OGFC MIX	7	TACK COAT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.07 gal./SY)
2	GRADING "B-M2" MIXTURE (BINDER) @ 2.25" THICK (254.3±LB / SY) 307-03.08 - ASPHALT CONCRETE MIX (PG76-22)(BPMB-HM) GRADING B-M2	8	OGFC SURFACE @ 1.00" THICK (88±LB / SY) 411-03.15 - ASPHALT CEMENT (PG76-22) FOR OGFC MIX 411-03.16 - AGGREGATE FOR OGFC MIX
3	GRADING "A" MIXTURE (BLACK BASE) @ 7.5" THICK (862.50±LB / SY) 307-03.01 - ASPHALT CONCRETE MIX (PG76-22)(BPMB-HM) GRADING A	9	GRADING "B-M2" MIXTURE (BINDER) @ 2.25" THICK (254.3±LB / SY) 307-01.08 - ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING B-M2
4	GRADING "A-S" MIXTURE (BLACK BASE) @ 3.50" THICK (315±LB / SY) 307-03.02 - PERF GRADE ASPHALT CEMENT (PG76-22) GRADING AS 307-03.03 - AGGREGATE (BPMB-HM) GRADING AS	10	UNDERDRAIN 710-02 - AGGREGATE UNDERDRAIN W/PIPE
5	MINERAL AGGREGATE BASE @ 10" THICK (ROADWAY), 21.00" THICK (SHOULDER) 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D	11	GRADING "B-M2" MIXTURE (BINDER) @ 2.00" THICK (226.0±LB / SY) 307-01.08 - ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING B-M2
6	PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 gal./SY) 402-02 - AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)		

NOTES: 7.5" OF PERF. "A-MIX" (307-03.01) TO BE APPLIED IN TWO EQUAL LIFTS.

PROPOSED SR-109 ALTERNATE "A" PAVEMENT SCHEDULE

1A	GRADING "D" SURFACE @ 1.25" THICK (132.5±LB / SY) 411-02.10 - ACS MIX (PG70-22) GRADING D	6A	PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 gal./SY) 402-02 - AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)
2A	GRADING "B-M2" MIXTURE (BINDER) @ 2" THICK (226±LB / SY) 307-02.08 - ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING B-M2	7A	TACK COAT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.07 gal./SY)
3A	GRADING "A" MIXTURE (BLACK BASE) @ 4" THICK (460±LB / SY) 307-02.01 - ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A	8A	GRADING "E" SHOULDERS @ 1.50" THICK (154.5±LB / SY) 411-01.07 - ASPHALT CONCRETE MIX (PG64-22) GRADING E (SHOULDER)
4A	GRADING "A-S" MIXTURE (BLACK BASE) @ 3" THICK (270±LB / SY) 307-02.02 - PERF GRADE ASPHALT CEMENT (PG70-22) GRADING AS 307-02.03 - AGGREGATE (BPMB-HM) GRADING AS	9A	UNDERDRAIN 710-02 - AGGREGATE UNDERDRAIN W/PIPE
5A	MINERAL AGGREGATE BASE @ 10" THICK (ROADWAY), 18.75" THICK (SHOULDER) 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D		

PROPOSED SR-109 ALTERNATE "B" PAVEMENT SCHEDULE

1B	GRADING "D" SURFACE @ 1.25" THICK (132.5±LB / SY) 411-02.10 - ACS MIX (PG70-22) GRADING D	7B	PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 gal./SY) 402-02 - AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)
2B	GRADING "B-M2" MIXTURE (BINDER) @ 2" THICK (226±LB / SY) 307-02.08 - ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING B-M2	8B	TACK COAT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.07 gal./SY)
3B	GRADING "A" MIXTURE (BLACK BASE) @ 4" THICK (460±LB / SY) 307-02.01 - ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A	9B	GRADING "E" SHOULDERS @ 1.50" THICK (154.5±LB / SY) 411-01.07 - ASPHALT CONCRETE MIX (PG64-22) GRADING E (SHOULDER)
4B	GRADING "A-S" MIXTURE (BLACK BASE) @ 3" THICK (270±LB / SY) 307-02.02 - PERF GRADE ASPHALT CEMENT (PG70-22) GRADING AS 307-02.03 - AGGREGATE (BPMB-HM) GRADING AS	10B	UNDERDRAIN 710-02 - AGGREGATE UNDERDRAIN W/PIPE
5B	AGGREGATE-CEMENT BASE COURSE @ 5" THICK (ROADWAY) 309-01.01 - MINERAL AGGREGATE (A-CBC) 309-01.02 - PORTLAND CEMENT (A-CBC) 309-02 - BITUMINOUS MATERIAL (A-CBC)		
6B	MINERAL AGGREGATE BASE @ 4" THICK (ROADWAY) 17.75" THICK (SHOULDER) 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D		

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2U

PROPOSED SR-41 PAVEMENT SCHEDULE

1	GRADING "D" SURFACE @ 1.25" THICK (132.5±LB / SY) 411-02.10 - ACS MIX (PG70-22) GRADING D	6	PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 gal./SY) 402-02 - AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)
2	GRADING "B-M2" MIXTURE (BINDER) @ 2" THICK (226±LB / SY) 307-02.08 - ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING B-M2	7	TACK COAT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.07 gal./SY)
3	GRADING "A" MIXTURE (BLACK BASE) @ 4" THICK (460±LB / SY) 307-02.01 - ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A	8	COLD PLANING BITUMINOUS PAVEMENT (1.25") 415-01.01 COLD PLANING BITUMINOUS PAVEMENT (131.25±LB / SY)
4	GRADING "A-S" MIXTURE (BLACK BASE) @ 3" THICK (270±LB / SY) 307-02.02 - PERF GRADE ASPHALT CEMENT (PG70-22) GRADING AS 307-02.03 - AGGREGATE (BPMB-HM) GRADING AS	9	UNDERDRAIN 710-02 - AGGREGATE UNDERDRAIN W/PIPE
5	MINERAL AGGREGATE BASE @ 10" THICK (ROADWAY), 18.75" THICK (SHOULDER) 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D		

PROPOSED RAMP PAVEMENT SCHEDULE

1	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10" THICK (ROADWAY AND SHOULDER) 501-01.03	4	PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 gal./SY) 402-02 - AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)
2	TREATED PERMEABLE BASE @ 4" THICK (ROADWAY AND SHOULDER) 313-03	5	UNDERDRAIN 710-02 - AGGREGATE UNDERDRAIN W/PIPE
3	MINERAL AGGREGATE BASE @ 4" THICK (ROADWAY & SHOULDER) 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D		

PROPOSED SIDEROAD PAVEMENT SCHEDULE

1	GRADING "D" SURFACE @ 1.25" THICK (132.5±LB / SY) 411-01.10 - ACS MIX (PG64-22) GRADING D	4	PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) (0.30-0.35 gal./SY) 402-02 - AGGREGATE FOR COVER MATERIAL (PC) (8-12 LB/SY)
2	GRADING "B-M2" MIXTURE (BINDER) @ 2" THICK (226±LB / SY) 307-01.08 - ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING B-M2	5	TACK COAT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC) (0.07 gal./SY)
3	MINERAL AGGREGATE BASE @ 10" THICK (ROADWAY), 11.75" THICK (SHOULDER) 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D	6	GRADING "E" SHOULDERS @ 1.50" THICK (154.5±LB / SY) 411-01.07 - ASPHALT CONCRETE MIX (PG64-22) GRADING E (SHOULDER)

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2V

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(3) ITEM NO.801-01.02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

(4) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(5) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

(3) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

FENCING

(1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

(2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.

(3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

(4) THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ACCESS CONTROL FENCES PRIOR TO CUTTING EXISTING STOCK FENCES IN AREAS UTILIZED BY DOMESTIC LIVESTOCK OR OTHER AREAS AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

(2) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

(3) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02, PAINTED PAVEMENT MARKING (8" BARRIER LINE), L.F.

(4) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), LIN. FT.

FINAL PAVEMENT MARKING IF 4" ENHANCED FLATLINE THERMOPLASTIC IS USED

(5) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

9/22/2014 7:45:9 AM
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TENNESSEE D.O.T.
DESIGN DIVISION
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GENERAL NOTES

FINAL PAVEMENT MARKING IF 6" ENHANCED FLATLINE THERMOPLASTIC IS USED

(6) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF 8" ENHANCED FLATLINE THERMOPLASTIC IS USED

(7) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.03, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.F. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF 4" SPRAY THERMOPLASTIC (60 mil) IS USED

(8) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

(9) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), L.M.

(10) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20 PAINTED PAVEMENT MARKING (6IN LINE), L.M.

(11) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8IN BARRIER LINE), L.F

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(12) THE PAVEMENT MARKING ON THE LANE SHIFTS, TEMP. RAMP I, AND DETOUR, FOR EDGE LINES AND CENTER LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02, LIN. FT.

(13) BEFORE OPENING THE LANE SHIFTS, TEMP. RAMP I, AND DETOUR TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM 712-09.01 REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

RESURFACING

(4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

(7) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.

(8) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.

(9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(2) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(1) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(2) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE ROADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, TELEPHONE NO. (615)-741-0982. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

(3) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(4) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(5) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE ROADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1300, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

(6) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(7) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

(8) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(9) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(10) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

TRAFFIC CONTROL DIRECTIONAL SIGNING

(1) ON ALL ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL UTILIZE ALL EXISTING DIRECTIONAL SIGNING FOR AS LONG AS POSSIBLE. THESE EXISTING SIGNS CAN BE MOVED USING TEMPORARY SUPPORTS AS NEEDED. AS SOON AS THESE EXISTING DIRECTIONAL SIGNS COME DOWN PERMANENTLY, THE CONTRACTOR SHALL HAVE UP AT LEAST ONE NEW TEMPORARY "ADVANCE GUIDE SIGN" AND ONE NEW TEMPORARY "EXIT DIRECTIONAL SIGN" AT ALL EXIT RAMPS. THESE SIGNS ARE TO BE MAINTAINED WITHIN CLEAR VIEW OF THE PUBLIC ON THE RIGHT SIDE OF THE HIGHWAY AND SHALL BE REPLACED IF DAMAGED, DURING ALL PHASES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.

(2) THE SIZE OF THESE NEW TEMPORARY SIGNS WILL BE DETERMINED BY THE MESSAGE. THE MESSAGE SHALL BE THE SAME AS THE EXISTING SIGN THAT THESE NEW TEMPORARY SIGNS WILL BE REPLACING. THE LETTER SIZE SHALL BE A MINIMUM OF 8 INCH, "D" UPPER CASE LETTER. THE DIRECTIONAL ARROW WILL BE A "B" ARROW AT A 45 DEGREE ANGLE (SAME ANGLE AS THE EXISTING ARROW). THE MATERIAL SHALL BE 0.100 INCH SHEET ALUMINUM; THE COLOR SHALL BE A REFLECTIVE GREEN BACKGROUND WITH REFLECTIVE WHITE COPY.

(3) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

9/22/2014 7:47:00 AM
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TENNESSEE D.O.T.
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GENERAL NOTES

TRAFFIC CONTROL DIRECTIONAL SIGNING (CON'T.)

(4) SOME OF THESE DIRECTIONAL SIGNS WILL NEED AN INTERSTATE, U.S., OR A STATE HIGHWAY SHIELD, A CARDINAL DIRECTION, AND A DIRECTION ARROW TO ACCOMPANY THE DIRECTIONAL SIGN. THESE SIGNS SHALL BE MOUNTED BELOW THE DIRECTIONAL SIGN.

(5) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-06.

(6) WHEN EXISTING "TOURIST ORIENTED DIRECTIONAL SIGNS" (TODS) ARE ON NON-ACCESS CONTROLLED CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING THESE "TODS" AND TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(2) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

(3) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(4) SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7) DAYS PRIOR TO ACTIVATION OF THE SIGNAL.

(5) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.

(6) THE CONTRACTOR SHALL CONTACT THE CITY OF PORTLAND A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE.. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

(7) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(9) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(10) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(11) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(12) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(13) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(14) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM/WETLAND

(15) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(16) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(17) INSTREAM EPSC DEVICES REQUIRE THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.

(18) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(19) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(20) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2Y

GENERAL NOTES

STREAM/WETLAND (CON'T.)

FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(21) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED.

(22) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

SPECIES

(23) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

INSPECTION, MAINTENANCE, REPAIR

(24) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(25) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(26) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(27) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(28) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(29) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(30) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(31) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

(32) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS

(33) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(34) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(35) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(36) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

(37) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(38) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(39) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(40) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(41) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(42) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(43) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

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GENERAL NOTES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2Z

SPECIAL NOTES

PAVEMENT

RESURFACING

(1) TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:

A. THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.

B. THE SURFACE SHALL BE SWEPT AND CLEANED OF ALL LOOSE MATERIALS.

C. THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.

D. THE MILLED SURFACE SHALL BE PAVED WITHIN 48 HOURS.

E. RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.

F. ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGNS (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.

G. IF RAVELING OR DETERIORATION OF THE MILLED SURFACE IS OCCURRING WHILE TRAFFIC IS DRIVING ON THE MILLED SURFACE, THEN THIS PRACTICE WILL NOT BE ALLOWED AND PAVING SHALL BE COMPLETED IMMEDIATELY AFTER MILLING.

H. ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

SIGNALIZATION

(1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 105, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

(2) CUTTING OF TREES WITHIN THE KENTUCKY PORTION OF PROJECT 107338.00 IS PROHIBITED DURING THE PERIOD OF APRIL 1 THROUGH OCTOBER 14.

ENVIRONMENTAL

STREAM RELOCATION

(1) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL THE ECOLOGY SECTION MUST BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE STREAM / CHANNEL IS TO BE SUPPLIED WITH THE NOTIFICATION.

UTILITIES

(1) THIS PROJECT HAS UTILITY PIPELINE RELOCATION WORK, WHICH IS NOT INCLUDED IN THIS CONTRACT, TO BE MOVED BY OTHERS. IT IS KNOWN THAT THIS RELOCATION WORK IS IN CONFLICT WITH CERTAIN ROADWAY WORK TO BE ACCOMPLISHED IN THIS PROJECT. THEREFORE, SEE SPECIAL PROVISION 105C OF THE CONTRACT FOR FURTHER DETAILS REGARDING ANTICIPATED AVAILABILITY DATES IN WHICH THE CONTRACTOR SHOULD HAVE ACCESS TO SPECIFIC LOCATIONS IN AND AROUND THESE PIPELINES. THE PROJECT COMPLETION DATE HAS BEEN ADJUSTED TO TAKE INTO CONSIDERATION THESE CONFLICTS BASED OF THE ANTICIPATED AVAILABILITY DATES SET FORTH IN SP105C.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AA

PROPOSED GUARDRAIL - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL				TERMINAL ANCHORS					REMARKS
		LT	RT	FROM	TO	BRIDGE ENDS 705-01.01 (L.F.)	BRIDGE PIERS 705-01.02 (L.F.)	SINGLE TYPE 2 705-02.02 (L.F.)	MEDIAN TYPE 2 705-03.03 (L.F.)	TYPE 12 705-04.02 (EACH)	TYPE 13 705-04.03 (EACH)	TYPE 21 705-04.04 (EACH)	TYPE IN-LINE 705-04.05 (EACH)	TYPE 38 705-04.07 (EACH)	
4A	I-65	X		1813+29.95	1814+02.02	53.78		46.88							TIE TO EXISTING
5A	I-65	X		1822+00	1825+00			250			1			1	
5A	I-65		X	1826+20	1831+70			500			1			1	
5A/6A	I-65/RAMP H	X		1830+28	477+50			456.25			1			1	
6A/7A	RAMP E	X		305+50	307+50			162.5			1			1	
7A	RAMP H		X	464+50	466+75			181.25			1			1	
7A	RAMP H	X		465+00	468+00			256.25			1			1	
7A/8A	I-65/RAMP E	X		1858+31.25	307+00			1543.75			1			1	
8A	SR-109		X	386+84.74	391+31.49	26.89		368.75						1	END BRIDGE
8A/21A	SR-109/RAMP E	X		386+31.24	319+72.21	26.89		600						1	END BRIDGE
8A/19A	SR-109		X	381+18.49	384+24.74	26.89		231.25						1	BEGIN BRIDGE
8A/19A	RAMP A/SR-109	X		114+02.08	383+75.26	26.89		587.5					2	1	BEGIN BRIDGE
8A	I-65/LAKE SPRINGS	X		1855+20.21	36+13			953.3			1				TIE TO EXISTING
9A	I65	X		1864+75.91	1868+50.94			350			1			1	
8A/9A	LAKE SPR./S.DET.	X		30+30	36+13			568.75				1			TIE TO EXISTING
9A	RAMP C/I65		X	214+68	1866+30			323.39			1			1	
9A	RAMP I	X		498+65	500+00			83.85			1			1	
9A	RAMP I		X	498+65	500+00			77.6			1			1	
19A	RAMP C		X	202+50	204+50			150			1			1	
19A	LAKE SPR./FRED WHITE	X		80+10	82+00			140				2			
19A	LAKE SPR./FRED WHITE		X	80+10	81+50			110				2			
21A/22A	RAMP H/SR-109		X	453+00	400+50			800			1			1	
21A/22A	SR-109		X	396+00	400+00			343.75			1			1	
21A/22A	FRONTAGE	X		15+36.25	19+05			318.75				2			
21A/22A	FRONTAGE		X	15+75	18+56.25			231.25				2			
9A	WELCOME CENTER	X		1869+75	1870+90			90			1	1			
9A/22A	PVT. DR. LT. STA.38+43.61 LAKE SPRINGS/S. DETOUR RD.	X		1+94	2+82			80				1	1		
9A/22A	PVT. DR. LT. STA.38+43.61 LAKE SPRINGS/S. DETOUR RD.		X	1+84	2+96			62				2			
TOTALS						162	0	9868	0	0	16	13	3	18	

SIDE DRAIN TABULATION - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.					RCP CLASS III (L.F) FILL HEIGHT < 10 FT	END TREATMENT		REMARKS
	LT	RT		(L.F.)	15"	18"	24"	30"	36"	23"x14" HOCP	TYPE	DRAWING NO.	
1130+80.00 (S.R.41 LT)	X		PRIVATE DRIVE	12		30							NO EW'S REQ'D
1133+85.00 (S.R.41 RT)	X		FIELD ENT.	20		42							NO EW'S REQ'D
27+19.50 (EUBANKSLT RD.)	X		FIELD ENT.	20						30	SD	D-SEW-1A	USE 24" EW INLET ONLY
27+19.50 (EUBANKSLT RD.)		X	PRIVATE DRIVE	12						22	SD	D-SEW-1A	USE 24" EW OUTLET ONLY
31+30.00 (EUBANKSRT RD.)		X	FIELD ENT.	20		32					SD	D-SEW-1A	OUTLET ONLY
31+30.00 (EUBANKSRT RD.)	X		FIELD ENT.	20		32					SD	D-SEW-1A	INLET ONLY
32+40.00 (EUBANKSRT RD.)		X	PRIVATE DRIVE	12		24					SD	D-SEW-1A	OUTLET ONLY
13+50 (FRONTAGE RD.)		X	FIELD ENT.	20		34					SD	D-SEW-1A	INLET ONLY
2+87 OFF PVT. DR. LT. STA.38+43.61 LAKE SPRINGS/S. DETOUR RD.	X		PRIVATE DRIVE	12		30							NO EW'S REQ'D
TOTALS					0	224	0	0	0	52			

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AB

SIDE DRAIN ENDWALLS - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

LOCATION STATION	DRIVE OR ENTRANCE STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	18 IN. ENDWALL 6:1 611-07.31 (EA.)	24 IN. ENDWALL 6:1 611-07.32 (EA.)	30 IN. ENDWALL 6:1 611-07.33 (EA.)	36 IN. ENDWALL 6:1 611-07.34 (EA.)
EUBANKS RD. LT.	27+19.50	17.10 RT	SD	D-SEW-1A	90		1		
EUBANKS RD. LT.	27+19.50	19.02 LT	SD	D-SEW-1A	90		1		
EUBANKS RD. RT.	31+30	23.71 RT	SD	D-SEW-1A	90	1			
EUBANKS RD. RT.	31+30	24.59 LT	SD	D-SEW-1A	90	1			
EUBANKS RD. RT.	32+40	23.41 RT	SD	D-SEW-1A	90	1			
FRONTAGE RD.	13+50	21.26 RT	SD	D-SEW-1A	90	1			
TOTALS						**4**	**2**	**0**	**0**

CROSS DRAIN TABULATION - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 18 FT.					RCP CLASS IV (L.F.) FILL HEIGHT > 18 FT. AND < OR = 27 FT.					RCP CLASS V (L.F.) FILL HEIGHT > 27 FT.	SKEW	RIP-RAP CLASS A-1 709-05.06 (TON)	RIP-RAP CLASS B 709-05.08 (TON)	RIP-RAP CLASS C 709-05.09 (TON)	CEMENT CONCRETE DITCH PAVING 703-01 (C.Y.)	T.R.M. CL III (S.Y.)	SOD 803-01 (S.Y.)	END TREATMENT				REMARKS
																			INLET		OUTLET		
	18"	24"	30"	36"	48"	18"	24"	30"	36"	48"	30"								TYPE	DRAWING NO.	TYPE	DRAWING NO.	
I-65 1847+70.00									90			90° RT							6:1 "U"	D-PE-36 (A&B)	"CB"	D-CB-31SD	TIE TO M.L. PROP. DITCH - JACK IN PLA
I-65 1847+70.00									56			90° RT							"CB"	D-CB-31SD	"CB"	D-CB-31SD	JACK IN PLACE
I-65 1847+70.00				82								0° 21' 33" LT		103.0			79.5	19.1	"CB"	D-CB-31SD	"B"	D-PE-9(A&B)	RIPRAP APRON
I-65 1852+29.98										208		53° 51' 27" RT							6:1 "U"	D-PE-48 (A&B)	"MH"	D-MH-2	JACK IN PLACE
I-65 1852+29.98					102							53° 51' 27" RT		60.7				6.7	"MH"	D-MH-2	"A"	D-PE-1	
I-65 1877+48.66		17										89° 44' 14" RT							6:1 "U"	D-PE-24 (A&B)	"JB"	D-JBS-1	
I-65 1877+48.66		92										85° 56' 08" RT	8.1					272.9	"JB"	D-JBS-1	4:1 "U"	D-PE-24 (A&B)	
I-65 1882+39.64	18											89° 59' 16" LT							"JB"	D-JBS-1	6:1 "U"	D-PE-18 (A&B)	PART OF PIPE IN KY QUANTS
RAMP A 109+81.65		138										50° 48' 46" LT (TAN TO CURVE)	4.0					10.4	4:1 "U"	D-PE-30 (A&B)	6:1 "U"	D-PE-24 (A&B)	USE 30" EW LT
RAMP A 116+52.80							168					78° 03' 36" RT		102.0				1059.0	"CB"	D-CB-38RB	"ST"	D-PE-4	
RAMP C 204+71.10								178				77° 58' 27" RT		96.0				565.8	"A"	D-PE-1	3:1 "U"	D-PE-36 (A&B)	
RAMP C 211+44.00				90								80° 57' 04" RT (TAN TO CURVE)	8.1					2.2	6:1 "U"	D-PE-42 (A&B)	6:1 "U"	D-PE-42 (A&B)	USE 42" EW
RAMP H 474+26.37		117										64° 14' 53" RT (TAN TO CURVE)		25.1				6.7	6:1 "U"	D-PE-30 (A&B)	4:1 "U"	D-PE-30 (A&B)	USE 30" EW
SR 109 378+92.49							237					62° 55' 03" LT						661.0	3:1 "U"	D-PE-36 (A&B)	"CB"	D-CB-38RB	USE 36" EW
SR 109 388+69.59											300	89° 49' 56" RT		59.0			231.2	111.1	"ST"	D-PE-4	"ST"	D-PE-4	
SR 109 414+92.58				126								41° 06' 36" RT							"A"	D-PE-1	"MH"	D-MH-2	SEE SPECIAL DETAIL ON SHT 23A
TOTALS	**18**	**364**	**0**	**298**	**102**	**0**	**0**	**405**	**324**	**208**	**300**		**21**	**446**	**0**	**0**	**311**	**2715**					

CROSS DRAIN TABULATION - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 18 FT.					RCP CLASS IV OR CMP 14 GA. OR PVC (L.F.) FILL HEIGHT > 18 FT. AND < OR = 27 FT.					RCP CLASS III HOCPC (L.F.) FILL HEIGHT < OR = 18 FT.	SKEW	RIP-RAP CLASS A-1 709-05.06 (TON)	RIP-RAP CLASS B 709-05.08 (TON)	CEMENT CONCRETE DITCH PAVING 703-01 (C.Y.)	SOD 803-01 (S.Y.)	END TREATMENT				REMARKS
																	INLET		OUTLET		
	18"	24"	30"	36"	48"	18"	24"	30"	36"	48"	38" X 24"						TYPE	DRAWING NO.	TYPE	DRAWING NO.	
SR 41 LT 1131+25.00								44				90°					"ST"	D-PE-4			OUTLET IN SUMNER CO. - JACK IN PLACE
SR 41 RT 1133+12.00				18								90°					"A"	D-PE-1	"CB"	D-CB-14S	
SR 41 RT 1133+12.00									33			90°					"CB"	D-CB-14S			OUTLET IN SUMNER CO. - JACK IN PLACE
LAKE-RED 81+00.00				82								90°			45.0	10.7	"A"	D-PE-1	"A"	D-PE-1	
LAKE SPRINGS 73+65.00	52											90°				2.3	"ST"	D-PE-4	"ST"	D-PE-4	
TOTALS	**52**	**0**	**0**	**100**	**0**	**0**	**0**	**44**	**33**	**0**	**0**		**0**	**0**	**45**	**13**					

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AC

CROSS DRAIN ENDWALLS - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

LOCATION	CROSS DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	18 IN. ENDWALL 6:1 611-07.56 (EA.)	24 IN. ENDWALL 4:1 611-07.58 (EA.)	24 IN. ENDWALL 6:1 611-07.59 (EA.)	30 IN. ENDWALL 4:1 611-07.61 (EA.)	30 IN. ENDWALL 6:1 611-07.62 (EA.)	36 IN. ENDWALL 3:1 611-07.63 (EA.)	36 IN. ENDWALL 6:1 611-07.65 (EA.)	42 IN. ENDWALL 6:1 611-07.68 (EA.)	48 IN. ENDWALL 6:1 611-07.71 (EA.)
I-65	1847+70	92.42 RT	6:1 "U"	D-PE-36(A&B)	90°									1		
	1847+70	147.32 LT	"B"	D-PE-9	0° 21' 33" LT	5.08	469									
I-65	1852+26	83.38 RT	6:1 "U"	D-PE-48(A&B)	75°											1
	1852+26	157.03 LT	"A"	D-PE-1		6.05	92									
I-65	1877+48.66	91.86 RT	6:1 "U"	D-PE-24(A&B)	89° 44' 14" RT					1						
	1877+48.66	154.27 LT	4:1 "U"	D-PE-24(A&B)	85° 56' 08" RT				1							
	1882+39.64	124.65 LT	6:1 "U"	D-PE-18(A&B)	89° 59' 16" LT			1								
S.R. 109	378+92.49	125.30 RT	3:1 "U"	D-PE-36(A&B)	62° 55' 03" LT								1			
S.R. 109	388+69.59	135.83 RT	"ST"	D-PE-4	89° 49' 56" RT	2.98	90									
	388+69.59	162.97 LT	"ST"	D-PE-4		2.98	90									
S.R. 109	414+92.58	51.12 RT	"A"	D-PE-1	41° 06' 36" RT	5.16	94									
RAMP A	109+81.65	69.38 LT	4:1 "U"	D-PE-30(A&B)	50° 48' 46" LT (TAN TO CURVE)						1					
	109+81.65	37.46 RT	6:1 "U"	D-PE-24(A&B)						1						
RAMP A	116+52.80	117.28 LT	"ST"	D-PE-4	78° 03' 36" RT	2.98	90									
RAMP C	204+71.10	73.78 RT	"A"	D-PE-1	77° 58' 27" RT	4	73									
	204+71.10	99.06 LT	3:1 "U"	D-PE-36(A&B)									1			
RAMP C	211+44	28.52 RT	6:1 "U"	D-PE-42(A&B)	80° 57' 04" RT (TAN TO CURVE)										1	
	211+44	59.60 LT	6:1 "U"	D-PE-42(A&B)											1	
RAMP H	474+26.37	59.40 LT	6:1 "U"	D-PE-30(A&B)	64° 14' 53" RT (TAN TO CURVE)							1				
	474+26.37	45.70 RT	4:1 "U"	D-PE-30(A&B)							1					
S.R. 41 LT	1131+25	43.57 LT	"ST"	D-PE-4	90°	2.98	90									
S.R. 41 RT	1133+12	53.67 LT	"A"	D-PE-1	90°	3.89	73									
LAKE FRED	81+00	36.11 RT	"A"	D-PE-1	90°	3.89	73									
		45.18 LT	"A"	D-PE-1		3.89	73									
LAKE SPRINGS	73+65	27.09 RT	"ST"	D-PE-4	90°	1.16	40									
		24.77 LT	"ST"	D-PE-4		1.16	40									
TOTALS						**47**	**1387**	**1**	**1**	**2**	**2**	**1**	**2**	**1**	**2**	**1**

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AD

MEDIAN DRAIN TABULATION - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION	CODE	RCP CLASS III OR HDPE 0R PVC (L.F.) FILL HEIGHT < OR = 18 FT.			RCP CLASS IV OR PVC (L.F.) FILL HEIGHT > 18 FT. AND < OR = 27 FT.			RCP CLASS III HOCPC (L.F.) FILL HEIGHT < OR = 18 FT.	SKEW	END TREATMENT				REMARKS
										INLET		OUTLET		
		18"	24"	30"	18"	24"	30"	23" X 14"		TYPE	DRAWING NO.	TYPE	DRAWING NO.	
I-65 1813+85.00	7				80				79° 19' 04" RT	#39S	D-CB-39S	6:1 "U"	D-PE-18(A&B)	JACK IN PLACE
I-65 1825+00.00	1				104				90° RT	#31SD	D-CB-31SD	4:1 "U"	D-PE-18(A&B)	JACK IN PLACE
I-65 1828+50.00	2				94				90° RT	#46SE	D-CB-46SE	"ST"	D-PE-4	JACK IN PLACE
I-65 1829+50.00	3				88				90° RT	#31SD	D-CB-31SD	"ST"	D-PE-4	JACK IN PLACE
I-65 1830+00.00	131	76								#42S	D-CB-42S			STUB INTO BOX
I-65 1831+50.00	4				52				90° LT	#31SD	D-CB-31SD	#42S	D-CB-42S	JACK IN PLACE
I-65 1831+50.00	5	27								#42S	D-CB-42S			STUB INTO BOX
I-65 1832+50.00	6	98								#42S	D-CB-42S			
I-65 1836+00.00					92				90° LT	#42S	D-CB-42S	4:1 "U"	D-PE-18(A&B)	
I-65 1839+70.00		62							90° LT	#42S	D-CB-42S	4:1 "U"	D-PE-18(A&B)	
I-65 1841+50.00					56				90° LT	#31SD	D-CB-31SD	#31SD	D-CB-31SD	JACK IN PLACE
I-65 1841+50.00			50						90° LT	#31SD	D-CB-31SD	6:1 "U"	D-PE-24(A&B)	
I-65 1854+00.00	15	58							90° LT	#31SD	D-CB-31SD	#31SD	D-CB-31SD	JACK IN PLACE
I-65 1854+00.00	16	64							90° LT	#31SD	D-CB-31SD	"ST"	D-PE-4	
I-65 1859+00.00	17	56							90° LT	#31SD	D-CB-31SD	#31SD	D-CB-31SD	JACK IN PLACE
I-65 1859+00.00	18	64							90° LT	#31SD	D-CB-31SD	4:1 "U"	D-PE-18(A&B)	
I-65 1864+75.00	19	84								#31SD	D-CB-31SD			STUB INTO BOX
I-65 1865+82.40	20	30								#31SD	D-CB-31SD			STUB INTO BOX
I-65 1866+26.57	21	45								#31SD	D-CB-31SD			STUB INTO BOX
I-65 1870+00.00	22	50							90° LT	#31SD	D-CB-31SD	4:1 "U"	D-PE-18(A&B)	
I-65 1877+00.00	23	91							90° LT	#31SD	D-CB-31SD	4:1 "U"	D-PE-18(A&B)	
SR 109 372+00.00	61	93							90° LT	#25P	D-CB-25P	3:1 "U"	D-PE-18(A&B)	
SR 109 391+50.00	74	80							90° LT	#25P	D-CB-25P	#38RB	D-CB-38RB	
SR 109 400+75.00	81	74							90° LT	#25P	D-CB-25P	"ST"	D-PE-4	
RAMP E 321+43.88	89	104							90° RT	#38RB	D-CB-38RB	"ST"	D-PE-4	
RAMP H 451+75.00	46	78							90° RT	#38S	D-CB-38S	"ST"	D-PE-4	
RAMP J 559+86.35	29	47							90° LT	#12LP	D-CB-12LP	"ST"	D-PE-4	
RAMP K 601+25.00	30							24	90° RT	#12LP	D-CB-12LP	"ST"	D-PE-5	
TOTALS		1281	50	0	566	0	0	24						

MEDIAN DRAIN ENDWALLS - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

LOCATION	MEDIAN DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	18 IN. ENDWALL 3:1 611-07.54 (EA.)	18 IN. ENDWALL 4:1 611-07.55 (EA.)	18 IN. ENDWALL 6:1 611-07.56 (EA.)	24 IN. ENDWALL 6:1 611-07.59 (EA.)
I-65	1813+85	79.52 RT	6:1 "U"	D-PE-18(A&B)	79° 19' 04" RT					1	
	1825+00	105.66 RT	4:1 "U"	D-PE-18(A&B)	90° RT				1		
	1828+50	97.14 RT	"ST"	D-PE-4	90° RT	1.16	40				
	1829+50	89.94 RT	"ST"	D-PE-4	90° RT	1.16	40				
	1836+00	150.56 LT	4:1 "U"	D-PE-18(A&B)	90° LT				1		
	1839+70	122.54 LT	4:1 "U"	D-PE-18(A&B)	90° LT				1		
	1841+50	115.38 LT	6:1 "U"	D-PE-24(A&B)	90° LT						1
	1854+00	128.39 LT	"ST"	D-PE-4	90° LT	1.16	40				
	1859+00	129.16 LT	4:1 "U"	D-PE-18(A&B)	90° LT				1		
	1870+00	115.37 LT	4:1 "U"	D-PE-18(A&B)	90° LT				1		
	1877+00	154.50 LT	4:1 "U"	D-PE-18(A&B)	90° LT				1		
S.R. 109	372+00	93.12 LT	3:1 "U"	D-PE-18(A&B)	90° LT			1			
	400+75	86.65 LT	"ST"	D-PE-4	90° LT	1.16	40		1		
RAMP E	321+43.88	33.87 RT	"ST"	D-PE-4	90° LT	1.16	40				
RAMP H	451+75	30.78 RT	"ST"	D-PE-4	90° RT	1.16	40				
RAMP J	559+86.35	38.21 LT	"ST"	D-PE-4	90° LT	1.16	40				
RAMP K	601+25	26.52 RT	"ST"	D-PE-5	90° RT	0.8	57				
TOTALS						9	337	1	7	1	1

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AE

STORM DRAINAGE PIPES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					SOD (S.Y.)	CLASS A RIP-RAP 709-05.06 (TON)	CLASS B RIP-RAP 709-05.08 (TON)
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		18"	24"	30"	36"	48"			
9A	30A	736.00	30B	735.00	2.17	46					5.3	9.7	
9A	30C	733.50	30D	732.50	3.7	27					5.3	9.7	
8A	69	753.50	70	753.40	0.81	13							
8A	70	753.20	71	753.00	0.89	23							
8A	71	752.80	72	752.60	0.89	23							
8A	72	752.40	73	751.70	0.72	98							
8A	73	751.50	74	750.20	0.88	148							
21A	74A	751.70	74	750.20	1.88	47							
18A	63	745.20	64	744.30	1.12	78							
18A	64	744.15	65	743.80	0.74	48							
18A	65	743.65	65A	743.00	0.96	68							
18A	65A	742.85	66	742.20	0.84	78							
18A	66	742.05	66A	741.55	0.69	73							
18A	66A	741.40	67	740.90	0.67	73							
17A	67	740.75	67A	740.15	0.84	73							
17A	67A	740.00	68	739.50	0.67	73							
17A	68	739.35	68B	739.00	0.76	48							
17A	68B	738.85	68A	737.65	2.18	49							
17A	68A	737.30	115A	736.80	1.14	44							
17A	113	739.40	115	736.13	2.23	101							
18A	62	746.00	61	745.00	1.18	48							
18A	60	746.75	61	745.00	1.55	98							
18A	59	747.35	60	746.90	0.59	48							
18A	58	748.00	59	747.50	1.12	48							
22A	75	747.65	76	746.62	1.06	97							
22A	76	746.50	77	745.65	0.91	97							
22A	77	745.50	78	745.12	1.01	48							
22A	78	745.00	79	744.72	1.25	23							
22A	79	744.60	80	744.32	1.25	23							
22A	80	744.20	81	743.12	4.97	23							
23A	47	728.75	48	728.48	0.84	32							
23A	127	717.50	128	716.97	0.63				86.00				
23A	128	716.80	128A	716.07	0.70				106.00				
23A	128A	715.90	129	714.82	1.16				94.00				
23A	129	714.65	130	714.07	0.68				86.00				
23A	130	713.90	49	713.15	0.53				143.00		98.7		68
17A	115A	736.60	115	735.93	1.63	41							
TOTALS						**1858**	**0**	**0**	**516**	**0**	**110**	**20**	**68**

STORM DRAINAGE ENDWALLS - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	18 IN. ENDWALL 6:01 611-07.56 (EA.)
9A	RAMP "I"	500+50	31 RT	30B	"U"	D-PE-18(A&B)				1
9A	RAMP "I"	501+45	28 RT	30D	"U"	D-PE-18(A&B)				1
23A	SR-109	409-75	46 LT	47	"ST"	D-PE-4	1.16	40		
23A	SR-109	420+59.60	47 LT	49	"A"	D-PE-1	3.89	73		
TOTALS							**6**	**113**	**0**	**2**

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AF

CATCH BASINS AND MANHOLES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS: NO.1 JB 611-02.10	TYPE 3 611-01.02 4' - 8'	TYPE 12 611-12.01 0' - 4'	TYPE 14 611-14.03 8' - 12'	TYPE 25 611-25.01 0' - 4'	TYPE 25 611-25.02 4' - 8'	TYPE 25 611-25.03 8' - 12'	TYPE 26 611-26.02 4' - 8'	TYPE 31 611-31.02 4' - 8'	TYPE 31 611-31.03 8' - 12'	TYPE 38 611-38.01 0' - 4'	TYPE 38 611-38.02 4' - 8'	TYPE 38 611-38.06 20' - 24'	TYPE 39 611-39.01 0' - 4'	TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'	TYPE 42 611-42.03 8' - 12'	TYPE 46 611-46.02 4' - 8'
	4A	I-65	1813+85	0	7	726.15	#39-S	4'x 4'	3.00	D-CB-39S														1				
	5A	I-65	1825+00	0	1	710.45	#31-SD	7'x 7'	5.95	D-CB-31SD									1									
	5A	I-65	1828+50	0	2	707.00	#46-SE	9'x 9'	6.50	D-CB-46SE																		1
	5A	I-65	1829+50	0	3	707.20	#31-SD	7'x 7'	4.70	D-CB-31SD									1									
	5A	I-65	1830+00	53.80 LT	131	707.70	#42-S	32"x 32"	4.70	D-CB-42S																1		
	5A	I-65	1831+50	0	4	709.10	#31-SD	7'x 7'	4.80	D-CB-31SD									1									
	5A	I-65	1831+50	55.10 LT	5	709.20	#42-S	32"x 32"	6.20	D-CB-42S																1		
	5A	I-65	1832+50	55.90 LT	6	710.50	#42-S	32"x 32"	3.00	D-CB-42S															1			
	6A	I-65	1836+00	58.65 LT	8	715.65	#42-S	32"x 32"	11.70	D-CB-42S																	1	
	6A	I-65	1839+70	60.30 LT	9	721.00	#42-S	32"x 32"	6.85	D-CB-42S																1		
	6A	I-65	1841+50	0	10	723.65	#31-SD	7'x 7'	5.20	D-CB-31SD									1									
	6A	I-65	1841+50	62 LT	11	723.45	#31-SD	7'x 7'	5.65	D-CB-31SD									1									
	8A	I-65	1847+70	0	12	730.20	#31-SD	7'x 7'	9.50	D-CB-31SD										1								
	8A	I-65	1847+70	62 LT	13	730.00	#31-SD	7'x 7'	10.00	D-CB-31SD										1								
	8A	I-65	1851+92.69	123.92 LT	14	726.00	#3-MH	108"	6.50	D-MH-2		1																
	8A	I-65	1854+00	0	15	733.50	#31-SD	7'x 7'	4.35	D-CB-31SD									1									
	8A	I-65	1854+00	62 LT	16	733.30	#31-SD	7'x 7'	5.20	D-CB-31SD									1									
	8A	I-65	1859+00	0	17	736.30	#31-SD	7'x 7'	4.50	D-CB-31SD									1									
	8A	I-65	1859+00	62 LT	18	736.10	#31-SD	7'x 7'	5.50	D-CB-31SD									1									
	9A	I-65	1864+75	0	19	739.30	#31-SD	7'x 7'	5.80	D-CB-31SD									1									
	9A	I-65	1865+82.40	61.75 LT	20	739.90	#31-SD	7'x 7'	6.90	D-CB-31SD									1									
	9A	I-65	1866+26.57	0.65 RT	21	739.60	#31-SD	7'x 7'	6.10	D-CB-31SD									1									
	9A	I-65	1870+00	61.75 LT	22	742.20	#31-SD	7'x 7'	5.20	D-CB-31SD									1									
	9A	RAMP I	500+50	16 LT	30A	740.00	#12-LP	32"x 32"	4.00	D-CB-12LP			1															
	9A	RAMP I	501+45	0	30C	737.40	#12-LP	32"x 32"	3.90	D-CB-12LP			1															
	10A	I-65	1877+49.14	74.65 RT	24	745.15	#1-JB	32"x 32"	3.83	D-JBS-1	1																	
	10A	I-65	1877+48.66	61.75 LT	25	743.90	#1-JB	32"x 32"	3.81	D-JBS-1	1																	
	10A	I-65	1877+00	61.75 LT	23	746.50	#31-SD	7'x 7'	5.25	D-CB-31SD									1									
	19A	SR-109	379+36.20	85.48 LT	57	748.80	#38-RB	72"	22.55	D-CB-38RB													1					
	21A	SR-109	391+50	95 LT	89	750.90	#38-RB	4'x 4'	4.15	D-CB-38SB												1						
	21A	RAMP H	451+75	49 LT	46	752.30	#38-S	32"x 32"	3.05	D-CB-38S											1							
	10A	RAMPJ	559+85	2 RT	29	746.70	#12-LP	32"x 32"	3.75	D-CB-12LP			1															
(1)	10A	RAMPK	601+25	2 RT	30	744.95	#12-LP	32"X32"	3.45	D-CB-12LP			1															
	17A	SR-109	362+97	9 RT	68A	742.40	#26-S	8'x 3'	5.10	D-CB-26S								1										
	17A	SR-109	363+50	9 RT	68B	742.85	#25-LP	32"x 32"	4.00	D-CB-25LP					1													
	17A	SR-109	364+00	9 RT	68	743.30	#25-LP	32"x 32"	3.95	D-CB-25LP					1													
	17A	SR-109	364+75	9 RT	67A	744.00	#25-LP	32"x 32"	4.00	D-CB-25LP					1													
	17A	SR-109	365+50	9 RT	67	744.65	#25-LP	32"x 32"	3.90	D-CB-25LP					1													
	18A	SR-109	366+25	9 RT	66A	745.30	#25-LP	32"x 32"	3.90	D-CB-25LP					1													
	18A	SR-109	367+00	9 RT	66	745.95	#25-LP	32"X32"	3.90	D-CB-25LP					1													
	18A	SR-109	367+80	4.17 RT	65A	746.75	#25-LP	32"X32"	3.90	D-CB-25LP					1													
	18A	SR-109	368+50	0.5 LT	65	747.60	#25-LP	32"X32"	3.95	D-CB-25LP					1													
	18A	SR-109	369+00	3.83 LT	64	748.05	#25-LP	32"X32"	3.90	D-CB-25LP					1													
	18A	SR-109	369+80	7.72 LT	63	748.95	#25-LP	32"X32"	3.75	D-CB-25LP					1													
	18A	SR-109	371+50	1 RT	62	749.75	#25-LP	32"X32"	3.75	D-CB-25LP					1													
	18A	SR-109	372+00	1 RT	61	750.15	#25-P	36"x48"	10.15	D-CB-25P							1											
	18A	SR-109	373+00	0.5 RT	60	750.95	#25-LP	32"X32"	4.20	D-CB-25LP						1												
	18A	SR-109	373+50	2 LT	59	751.40	#25-LP	32"X32"	4.05	D-CB-25LP						1												
	18A	SR-109	374+00	4.5 LT	58	751.75	#25-LP	32"X32"	3.75	D-CB-25LP					1													
	8A	SR-109	388+35	11 LT	69	757.45	#25-LP	32"X32"	3.95	D-CB-25LP					1													
	8A	SR-109	388+50	11 LT	70	757.40	#25-LP	32"X32"	4.20	D-CB-25LP						1												
	8A	SR-109	388+75	11 LT	71	757.25	#25-LP	32"X32"	4.45	D-CB-25LP						1												
	8A	SR-109	389+00	11 LT	72	757.15	#25-LP	32"X32"	4.75	D-CB-25LP						1												
	8A	SR-109	390+00	11 LT	73	756.65	#25-P	4'x 3'	5.15	D-CB-25P						1												
	8A	SR-109	391+50	11 LT	74	755.95	#25-P	4'x 3'	5.95	D-CB-25P						1												
	21A	SR-109	392+00	11 LT	74A	755.60	#25-P	4'x 3'	3.90	D-CB-25P					1													
	22A	SR-109	397+50	11 LT	75	751.45	#25-P	4'x 3'	3.80	D-CB-25P					1													
	22A	SR-109	398+50	11 LT	76	750.40	#25-P	4'x 3'	3.90	D-CB-25P					1													
	22A	SR-109	399+50	11 LT	77	749.40	#25-LP	32"X32"	3.90	D-CB-25LP					1													
	22A	SR-109	400+00	11 LT	78	748.90	#25-LP	32"X32"	3.90	D-CB-25LP					1													
	22A	SR-109	400+25	11 LT	79	748.65	#25-LP	32"X32"	4.05	D-CB-25LP						1												
	22A	SR-109	400+50	11 LT	80	748.40	#25-LP	32"X32"	4.20	D-CB-25LP						1												
	22A	SR-109	400+75	11 LT	81	748.10	#25-P	4'x 3'	8.00	D-CB-25P							1											
	23A	SR-109	410+08.19	32.82 LT	48	731.40	#42-S	32"X32"	3.04	D-CB-42S															1			
(2)	23A	SR-109	415+30	34.25 LT	127	724.25	#3-MH	84"	6.75	D-MH-2		1																
	23A	SR-109	416+20	35.3 LT	128	722.60	#42-SB	48"X48"	5.80	D-CB-42SB																1		
	23A	SR-109	417+29	37 LT	128A	721.40	#42-SB	48"X48"	5.50	D-CB-42SB																1		
	23A	SR-109	418+26	37.4 LT	129	720.15	#42-SB	48"X48"	5.50	D-CB-42SB																1		
	23A	SR-109	419+15	41 LT	130	719.35	#42-SB	48"X48"	5.45	D-CB-42SB																1		
	17A	SR-41 RT	1133+12	33 LT	115	741.85	#14-S	8'x 3'	7.35	D-CB-14S				1														
	17A	SR-41 RT	1132+70	54.42 LT	115A	742.00	#12P	32"x32"	5.40	D-CB-12P			1															
	TOTALS										**2**	**2**	**5**	**1**	**18**	**9**	**2**	**1**	**14**	**2**	**1**	**1**	**1**	**1**	**2**	**7**	**1**	**1**

(1) USES 23"X14" HOCP

(2) SEE SPECIAL DETAIL ON SHEET 23A

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AG

BOX BRIDGE TABULATION - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

	STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX BRIDGE BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
	1831+00	I-65	3@15 (EXT)	10	26.4	90°	9.15 SQ.MI.	197	34819					STD-17-103	966	54
(1)	397+60	SR-109	3 @ 18	9	279.4	75° RT	0.75 SQ.MI.	3203	416810					STD-17-106	5399	633
	17+20	FRONTAGE	2 @ 14	9	82	90°	0.75 SQ.MI.	351	62576					STD-17-80	805	104
	TOTALS							**3751**	**514205**	**0**	**0**	**0**	**0**		**7170**	**791**

NOTE: CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
(1) SKEWED 80^ RT. TO C.L.

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BOX CULVERT TABULATION - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

	STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
	307+06.56	RAMP E	6	4	129.8	51° 51' 25" LT	73.76	86	20495					STD-17-51	739	55
	467+25.37	RAMP H	6	4	198.2	45° LT	80.81	127	30892					STD-17-51	1144	84
(1)	1865+70.00	I-65	18	8	227.3	60° RT	0.75 SQ.MI.	527	102579					STD-17-65	1260	196
	499+77	RAMP I	18	9	62.1	90°	0.75 SQ.MI.	145	36372					STD-17-66	346	54
	35+25	S.DETOUR RD	18	9	105.2	90°	0.75 SQ.MI.	335	67660					STD-17-66	518	92
	2+47 38+43.61 LT. LAKE SPRINGS RD. TIE TO S. DETOUR RD.	PVT. DRIVE	18	9	18.8	90°	0.75 SQ.MI.	65	10820					STD-17-66	189	16
	TOTALS							**1285**	**268818**	**0**	**0**	**0**	**0**		**4196**	**497**

NOTE: CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
(1) SKEWED 65^ RT. TO C.L.

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TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AH

PAVEMENT QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

	LOCATION	303-01 (TON) A	303-01 (TON) B	307-01.08 (TON)	307-02.01 (TON)	307-02.02 (TON)	307-02.03 (TON)	307-02.08 (TON)	307-03.01 (TON)	307-03.02 (TON)	307-03.03 (TON)	307-03.08 (TON)	309-01.01 (TON) B	309-01.02 (TON) B	309-02 (TON) B	313-03 (S.Y.)	402-01 (TON) A	402-01 (TON) B	402-02 (TON) A	402-02 (TON) B	403-01 (TON) A	403-01 (TON) B	411-01.07 (TON)	411-01.10 (TON)	411-02.10 (TON)	411-03.15 (TON)	411-03.16 (TON)	415-01.01 (TON)	501-01.03 (S.Y.)	701-02 (S.F.)	710-02
	INTERSTATE 65	52225	52225	1781					22529	267	7961	11517					94	94	372	372	76	76				331	5188				
	S.R. 109	41882	27961		8499	162	4827	4176					9313	454	288		71	71	280	280	22	22	749		2448						
	SR-41	308	308		98	2	55	119									1	1	3	3	1	1			69			41			
	SIDEROADS & RAMPS	43718	44650	1867					2637	31	932	777				32021	134	134	362	362	38	38	260	844		32	494		31895		
	DRIVES & ENTRANCES	509	509	96																				110						613	
(1)	MAINTENANCE OF TRAFFIC																						1114					1136			
	MOT - TEMP. RAMP "I"	932	932														2	2	8	8	2	2	33	59							
	TOTALS	**139574**	**126585**	**3744**	**8597**	**164**	**4882**	**4295**	**25166**	**299**	**8893**	**12295**	**9313**	**454**	**288**	**32021**	**301**	**301**	**1025**	**1025**	**141**	**141**	**2157**	**1014**	**2518**	**363**	**5682**	**1177**	**31895**	**613**	**31306**

(1) FOR REMOVAL OF EXIST. RUMBLE STRIPS AND SHOULDER STABILIZATION.

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REMOVAL OF BUILDINGS AND OBSTRUCTIONS
DESCRIPTION BLOCK -
ROBERTSON CO SR 109 / I-65 - 74003-3164-44

PAY ITEM	TRACT NO.	DESCRIPTION
202-06.02	27	1-S-F RES., METAL SHED
202-06.03	29	1-S-B RES., WOOD BARN & METAL SHED
202-06.04	32	2-TRAILERS RES.
202-06.07	33	1-METAL SHED, 1-HOT HOUSE, 1-FIBERGLASS HOUSE
202-06.08	34	1-METAL SHED

NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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TENNESSEE D.O.T.
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FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A"T"

PROPOSED CONCRETE MEDIAN BARRIER - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

SHEET NO.	LOCATION	SIDE		STATION		CONCRETE MEDIAN BARRIER WALL (32") 711-05.70 (L.F.)	CONCRETE MEDIAN BARRIER WALL (51") 711-05.71 (L.F.)	FLARED S/S CONCRETE MEDIAN BARRIER WALL 711-05.77 (L.F.)	CONCRETE SIDEWALK (4" THICK) 701-01.01 (S.F.)	MINERAL AGGREGATE SIZE 57 303-10.01 (TON)	REMARKS
		LT	RT	FROM	TO						
4A	I-65			1814+06.40	1820+00		553	40			
5A	I-65			1820+00	1833+00		1300				
6A	I-65			1833+00	1846+00		1260	40			
8A	I-65			1846+00	1859+00		1123	177	421	85	
9A	I-65			1859+00	1866+40		740				
9A	1-65			1869+85	1869+85			40			
6A	CD ROAD			1840+00	1846+00	600					
8A	CD ROAD			1846+00	1859+00	1226		74			
9A	CD ROAD			1859+00	1872+00	1300					
10A	CD ROAD			1872+00	1882+16	979		37			
TOTALS						**4105**	**4976**	**410**	**421**	**85**	

R.O.W. MARKERS - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

SHEET NO.	QUANTITIES			
	"A"	"B"	"C"	TOTALS
4	0	0	0	**0**
5	1	0	0	**1**
6	6	0	0	**6**
7	3	1	1	**5**
8	3	1	1	**5**
9	1	0	0	**1**
10	4	0	0	**4**
11	0	0	0	**0**
12	0	0	0	**0**
17	3	0	2	**5**
18	7	1	1	**9**
19	5	2	4	**11**
21	7	0	0	**7**
22	15	0	5	**20**
23	4	1	3	**8**
TOTALS	**59**	**6**	**17**	**82**

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ESTIMATED GRADING QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.)		BORROW EXCAVATION		CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y. *	EMB. C.Y.
	COMMON - C.Y.	S. ROCK - C.Y.	UNCL. - C.Y.	S. ROCK - C.Y.			
I-65 1813+29.95 - 1906+00	60,196		36,585	965			34,684
SR-109 362+36.28 - 420+82.37	22548		389546	2530			369042
RAMPS	39831		381231	5128		7658	361597
SIDEROADS	12714		24113	4962			23204
TOTALS	**135289**	**0**	**831475**	**13585**	**0**	**7658**	**788527**

* UNDERCUT MATERIAL DISPOSAL

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AJ

PROPOSED GUARDRAIL - SUMNER CO SR 109 - 83001-3143-44

SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL				TERMINAL ANCHORS					REMARKS
		LT	RT	FROM	TO	BRIDGE ENDS 705-01.01 (L.F.)	BRIDGE PIERS 705-01.02 (L.F.)	SINGLE TYPE 2 705-02.02 (L.F.)	MEDIAN TYPE 2 705-03.03 (L.F.)	TYPE 12 705-04.02 (EACH)	TYPE 13 705-04.03 (EACH)	TYPE 21 705-04.04 (EACH)	TYPE IN-LINE 705-04.05 (EACH)	TYPE 38 705-04.07 (EACH)	
16A	SR-109		X	345+42.50	349+30			337.5			1			1	
16A	SR-109/TGT ROAD TIE	X		348+00	14+30			256.25			1	1	2		
16A	TGT ROAD TIE/SR-109	X		14+30	352+12.50			168.75				1	2	1	
TOTALS						0	0	763	0	0	2	2	4	2	

SIDE DRAIN TABULATION - SUMNER CO SR 109 - 83001-3143-44

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.					RCP CLASS III (L.F) FILL HEIGHT < 10 FT	END TREATMENT		REMARKS
	LT	RT			15"	18"	24"	30"	36"	23"x14" HOCP	TYPE	DRAWING NO.	
314+05.00 (S.R.109)	X		FIELD ENT.	20		38							NO EW'S REQ'D
314+05.00 (S.R.109)		X	PRIVATE DRIVE	12			26						NO EW'S REQ'D
316+00.00 (S.R.109)		X	PRIVATE DRIVE	12		30							NO EW'S REQ'D
328+50.00 (S.R.109)		X	FIELD ENT.	20			36						NO EW'S REQ'D
328+50.00 (S.R.109)	X		FIELD ENT.	20			46						NO EW'S REQ'D
336+38.85 (S.R.109)		X	FIELD ENT.	20		32							NO EW'S REQ'D
352+00.00 (S.R.109)		X	FIELD ENT.	20					38				NO EW'S REQ'D
357+60.00 (S.R.109)	X		FIELD ENT.	20				40					NO EW'S REQ'D
12+00.00 (TGT RD. TIE)		X	FIELD ENT.	20		32					SD	D-SEW-1A	OUTLET ONLY
14+00.00 (TGT RD. TIE)	X		FIELD ENT.	20		36							NO EW'S REQ'D
TOTALS					0	168	108	40	38	0			

SIDE DRAIN ENDWALLS - SUMNER CO SR 109 - 83001-3143-44

LOCATION	DRIVE OR ENTRANCE STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	18 IN. ENDWALL 6:1 611-07.31 (EA.)	24 IN. ENDWALL 6:1 611-07.32 (EA.)	30 IN. ENDWALL 6:1 611-07.33 (EA.)	36 IN. ENDWALL 6:1 611-07.34 (EA.)
TGT TIE RD.	12+00	23.38 RT	SD	D-SEW-1A	90	1			
TOTALS						1	0	0	0

CROSS DRAIN TABULATION - SUMNER CO SR 109 - 83001-3143-44

STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 18 FT.					RCP CLASS IV (L.F.) FILL HEIGHT > 18 FT. AND < OR = 27 FT.					RCP CLASS V (L.F.) FILL HEIGHT > 27 FT.	SKEW	RIP-RAP CLASS A-1 709-05.06 (TON)	RIP-RAP CLASS B 709-05.08 (TON)	RIP-RAP CLASS C 709-05.09 (TON)	T.R.M. CL III (S.Y.)	SOD 803-01 (S.Y.)	END TREATMENT				REMARKS
																		INLET		OUTLET		
	18"	24"	30"	36"	48"	18"	24"	30"	36"	48"	30"							TYPE	DRAWING NO.	TYPE	DRAWING NO.	
SR 109 332+36.00			78									74° 40' 20" RT	24.5				8.7	4:1 "U"	D-PE-36 (A&B)	"CB"	D-CB-38RB	USE 36" EW
SR 109 332+36.00			92									74° 40' 20" RT		59.0				"CB"	D-CB-38RB	6:1 "U"	D-PE-36 (A&B)	USE 36" EW
TOTALS	0	0	170	0	0	0	0	0	0	0	0		25	59	0	0	9					

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AGRICULTURE
COMMERCE
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TENNESSEE D.O.T.
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FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AK

CROSS DRAIN TABULATION - SUMNER CO SR 109 - 83001-3143-44

STATION	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 18 FT.					RCP CLASS III HOCP (L.F.) FILL HEIGHT < OR = 18 FT.	RCP CLASS IV (L.F.) FILL HEIGHT > OR = 18 FT. AND < OR = 27 FT.		SKEW	RIP-RAP CLASS A-1 709-05.06 (TON)	RIP-RAP CLASS B 709-05.08 (TON)	SOD 803-01 (S.Y.)	END TREATMENT				REMARKS
													INLET		OUTLET		
	18"	24"	30"	36"	48"	38" X 24"	30"	36"					TYPE	DRAWING NO.	TYPE	DRAWING NO.	
SR 109 TIE 90+75.00		64							90°	6.5		3.6	4:1 "U"	D-PE-24 (A&B)	4:1 "U"	D-PE-24 (A&B)	
SR 41 LT 1131+25.00							56		90°	8.1		2.2			"ST"	D-PE-4	INLET IN ROBERTSON CO. - JACK IN PLACE
SR 41 RT 1133+12.00								33	90°						"CB"	D-CB-14S	INLET IN ROBERTSON CO. - JACK IN PLACE
SR 41 RT 1133+12.00				28					90°		27.0	4.4	"CB"	D-CB-14S	"A"	D-PE-1	
TGT ROAD TIE 10+60.00						46			90°	17.1		419.9	"ST"	D-PE-5	"ST"	D-PE-5	
TGT ROAD TIE 14+70.00				70					90°		27	4.4	4:1 "U"	D-PE-36 (A&B)	4:1 "U"	D-PE-36 (A&B)	
TOTALS	**0**	**64**	**0**	**98**	**0**	**46**	**56**	**33**		**32**	**54**	**435**					

CROSS DRAIN ENDWALLS - SUMNER CO SR 109 - 83001-3143-44

LOCATION	CROSS DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	24 IN. ENDWALL 4:1 611-07.58 (EA.)	36 IN. ENDWALL 4:1 611-07.64 (EA.)	36 IN. ENDWALL 6:1 611-07.65 (EA.)
SR 109	332+36	87.87 LT	4:1 "U"	D-PE-36(A&B)	74° 40' 20" RT				1	
	332+36	76 RT	6:1 "U"	D-PE-36(A&B)						1
SR 109 TIE	90+75	30.22 LT	4:1 "U"	D-PE-24(A&B)	90°			1		
		33.46 RT	4:1 "U"	D-PE-24(A&B)				1		
SR 41 LT	1131+25	55.67 RT	"ST"	D-PE-4	90°	2.98	90			
SR 41 RT	1133+12	62.98 RT	"A"	D-PE-1	90°	3.89	73			
TGT ROAD TIE	10+60	21.84 LT	"ST"	D-PE-5	90°	1.8	107			
		23.57 RT	"ST"	D-PE-5		1.8	107			
TGT ROAD TIE	14+70	33.24 LT	4:1 "U"	D-PE-36(A&B)	90°				1	
		35.86 RT	4:1 "U"	D-PE-36(A&B)					1	
TOTALS						**11**	**377**	**2**	**3**	**1**

STORM DRAINAGE PIPES - SUMNER CO SR 109 - 83001-3143-44

SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					SOD (S.Y.)	RIP-RAP 709-05.06 (TON)
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		18"	24"	30"	36"	48"		
17A	114	739.40	116	735.50	2.57	101						
TOTALS						**101**	**0**	**0**	**0**	**0**	**0**	**0**

REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK - SUMNER CO SR 109 - 83001-3143-44

PAY ITEM	TRACT NO.	DESCRIPTION
202-06.01	2	2-S-B RES. & WOOD BARN
202-06.06	12	1-RES.

NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.

MEDIAN DRAIN TABULATION - SUMNER CO SR 109 - 83001-3143-44

STATION	CODE	RCP CLASS III OR HDPE 0R PVC (L.F.) FILL HEIGHT < OR = 18 FT.			SKEW	END TREATMENT				REMARKS
						INLET		OUTLET		
		18"	24"	30"		TYPE	DRAWING NO.	TYPE	DRAWING NO.	
SR 109 310+50.00	31	42			90° LT	#42S	D-CB-42S	6:1 "U"	D-PE-18(A&B)	
SR 109 312+00.00	32	48			90° LT	#42S	D-CB-42S	6:1 "U"	D-PE-18(A&B)	
SR 109 321+85.00	37	83			90° RT	#38S	D-CB-38S	6:1 "U"	D-PE-18(A&B)	
SR 109 343+50.00	41	88			90° RT	#39S	D-CB-39S	4:1 "U"	D-PE-18(A&B)	
SR 109 347+00.00	42	128			MEDIAN	#38S	D-CB-38S	#42S	D-CB-42S	
SR 109 348+30.00	43	26			MEDIAN	#42S	D-CB-42S			STUB INTO BOX
SR 109 348+79.00	44	5			MEDIAN	#42S	D-CB-42S			STUB INTO BOX
SR 109 336+38.85		70			MEDIAN	"SD"	D-SEW-12D	"SD"	D-SEW-12D	
SR 109 351+00.00	45	80			90° LT	#39S	D-CB-39S	4:1 "U"	D-PE-18(A&B)	
TOTALS		**570**	**0**	**0**						

MEDIAN DRAIN ENDWALLS - SUMNER CO SR 109 - 83001-3143-44

LOCATION	MEDIAN DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	18 IN. ENDWALL 4:1 611-07.55 (EA.)	18 IN. ENDWALL 6:1 611-07.56 (EA.)	18 IN. ENDWALL MEDIAN 611-07.73 (EA.)
SR 109	310+50	42.82 LT	6:1 "U"	D-PE-18(A&B)	90°		1	
SR 109	312+00	47.29 LT	6:1 "U"	D-PE-18(A&B)	90°		1	
SR 109	321+85	83.82 RT	6:1 "U"	D-PE-18(A&B)	90°		1	
SR 109	343+50	86.22 RT	4:1 "U"	D-PE-18(A&B)	90°	1		
SR 109	351+00	80.10 LT	4:1 "U"	D-PE-18(A&B)	90°	1		
SR 109	336+38.85	0	"SD"	D-SEW-12D				1
		0	"SD"	D-SEW-12D				1
TOTALS						**2**	**3**	**2**

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REGISTERED ENGINEER
AGRICULTURE
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AL

CATCH BASINS AND MANHOLES - SUMNER CO SR 109 - 83001-3143-44

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 14 611-14.03 8' - 12'	TYPE 38 611-38.01 0' - 4'	TYPE 38 611-38.02 4' - 8'	TYPE 38 611-38.06 20' - 24'	TYPE 39 611-39.01 0' - 4'	TYPE 39 611-39.02 4' - 8'	TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'
13A	SR-109	310+50	0	31	767.40	#42-S	32"x 32"	3.45	D-CB-42S							1	
13A	SR-109	312+00	1.50 RT	32	769.25	#42-S	32"x 32"	3.65	D-CB-42S							1	
14A	SR-109	321+85	0	37	767.00	#38-S	32"x 32"	3.00	D-CB-38S		1						
15A	SR-109	332+36	0	38	751.75	#38-RB	60"	7.45	D-CB-38RB			1					
16A	SR-109	343+50	2.20 LT	41	736.00	#39-S	4'x 4'	5.20	D-CB-39S						1		
16A	SR-109	347+00	9.89 LT	42	732.00	#38-S	32"x 32"	3.00	D-CB-38S		1						
16A	SR-109	348+30	14.02 LT	43	731.30	#42-S	32"x 32"	6.30	D-CB-42S								1
16A	SR-109	348+79	14.10 LT	44	730.95	#42-S	32"x 32"	6.25	D-CB-42S								1
16A	SR-109	351+00	0	45	729.10	#39-S	4'x 4'	3.10	D-CB-39S					1			
17A	SR-41 RT	1133+12.00	33 RT	116	741.45	#14-S	8'x 3'	8.70	D-CB-14S	1							
TOTALS										**1**	**2**	**1**	**0**	**1**	**1**	**2**	**2**

BOX CULVERT TABULATION - SUMNER CO SR 109 - 83001-3143-44

	STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
(1)	348+65	SR-109	16	10	140.5	75° RT	0.94 SQ.MI.	313.5	61452.5					STD-17-63	984	111
TOTALS								**314**	**61453**	**0**	**0**	**0**	**0**		**984**	**111**

NOTE: CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
(1) SKEWED 80° RT. TO C.L.

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PAVEMENT QUANTITIES - SUMNER CO SR 109 - 83001-3143-44

LOCATION	303-01 (TON) A	303-01 (TON) B	307-01.08 (TON)	307-02.01 (TON)	307-02.02 (TON)	307-02.03 (TON)	307-02.08 (TON)	309-01.01 (TON) B	309-01.02 (TON) B	309-02 (TON) B	402-01 (TON) A	402-01 (TON) B	402-02 (TON) A	402-02 (TON) B	403-01 (TON) A	403-01 (TON) B	411-01.07 (TON)	411-01.10 (TON)	411-02.10 (TON)	415-01.01 (TON)	710-02 (L.F.)
S.R. 109	45114	31342		8284	158	4704	4070	9077	442	281	73	73	286	286	22	22	900		2386		10238
S.R. 109 TIE	2176	1496		396	8	225	195	434	21	13	4	4	14	14	1	1	49		114		
SR-41	486	486		171	3	97	144				1	1	5	5	1	1			85	35	
TGT TIE IN & CUL-DE-SAC	1371	1371	203								3	3	13	13	5	5	32	119			
DRIVES & ENTRANCES	700	700	185															124			
TOTALS	**49848**	**35396**	**388**	**8851**	**169**	**5027**	**4409**	**9511**	**463**	**294**	**81**	**81**	**318**	**318**	**29**	**29**	**982**	**243**	**2585**	**35**	**10238**

R.O.W. MARKERS - SUMNER CO SR 109 - 83001-3143-44

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
13	2	2	2	**6**
14	8	0	1	**9**
14C	1	0	0	**1**
15	6	0	0	**6**
16	11	3	6	**20**
17	3	0	3	**6**
TOTALS	**31**	**5**	**12**	**48**

ESTIMATED GRADING QUANTITIES - SUMNER CO SR 109 - 83001-3143-44

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) COMMON - C.Y.	ROAD & DRAINAGE EXC. (UNCL.) S. ROCK - C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
SR-109 308+00 - 362+36.28	68489		42938				95708
SIDEROADS	8461		5720				2273
TOTALS	**76950**	**0**	**48658**	**0**	**0**	**0**	**97981**

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TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AM

SIDE DRAIN TABULATION - S.R. 41 ROBERTSON CO. - 74096-3201-14

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.					RCP CLASS III (L.F) FILL HEIGHT < 10 FT	END TREATMENT		REMARKS
	LT	RT		(L.F.)	15"	18"	24"	30"	36"	23"x14" HOCP	TYPE	DRAWING NO.	
1123+00.00 (S.R.41 LT)	X		PRIVATE DRIVE	12		30							NO EW'S REQ'D
1123+50.00 (S.R.41 LT)	X		PRIVATE DRIVE	12		28							NO EW'S REQ'D
1124+66.95 (S.R.41 LT)	X		PRIVATE DRIVE	12		24							NO EW'S REQ'D
1127+13.80 (S.R.41 LT)	X		PRIVATE DRIVE	12		26							NO EW'S REQ'D
1129+35.00 (S.R.41 LT)	X		PRIVATE DRIVE	12		24							NO EW'S REQ'D
1134+53.45 (S.R.41 RT)	X		PRIVATE DRIVE	25		44							NO EW'S REQ'D
1136+01.00 (S.R.41 RT)	X		BUS ENT.	40		56							NO EW'S REQ'D
1137+65.00 (S.R.41 RT)	X		FIELD ENT.	20						30			NO EW'S REQ'D
TOTALS					**0**	**232**	**0**	**0**	**0**	**30**			

CATCH BASINS AND MANHOLES - S.R. 41 ROBERTSON CO. - 74096-3201-14

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 14 611-14.01 0' - 4'	TYPE 14 611-14.02 4' - 8'
17A	SR-41 LT	1129+50.00	21 LT	93	740.00	#12-LP	32"X32"	3.80	D-CB-12LP	1			
17A	SR-41 RT	1135+00.00	33 LT	113	743.38	#12-LP	32"X32"	3.98	D-CB-12LP	1			
17E	SR-41 LT	1123+22.00	14.58 LT	99	730.25	#12-LP	32"X32"	3.85	D-CB-12LP	1			
17E	SR-41 LT	1125+00.00	17.82 LT	97	733.10	#12-LP	32"X32"	3.75	D-CB-12LP	1			
17E	SR-41 LT	1126+50.00	20.55 LT	95	735.40	#12-LP	32"X32"	3.75	D-CB-12LP	1			
17H	SR-41 RT	1137+30.00	33 LT	111	747.30	#12-LP	32"X32"	3.80	D-CB-12LP	1			
17H	SR-41 RT	1140+50.00	33 LT	109	750.90	#12-LP	32"X32"	3.90	D-CB-12LP	1			
17H	SR-41 RT	1144+15.00	33 LT	107	750.30	#12-LP	32"X32"	3.80	D-CB-12LP	1			
17H	SR-41 RT	1147+00.00	33 LT	105	747.05	#14-S	8'x 3'	4.55	D-CB-14S				1
17H	SR-41 RT	1148+30.00	33 LT	103A	746.18	#12-LP	32"X32"	4.58	D-CB-12LP		1		
(1) 17H	SR-41 RT	1148+61.00	33 LT	103	746.15	#14-S	8'x 3'	5.15	D-CB-14S				1
17H	SR-41 RT	1148+92.00	33 LT	103B	746.18	#12-LP	32"X32"	4.83	D-CB-12LP		1		
17J	SR-41 RT	1150+00.00	33 LT	101A	746.64	#14-S	8'x 3'	4.64	D-CB-14S				1
17J	SR-41 RT	1152+00.00	33 LT	101	747.39	#12-LP	32"X32"	4.04	D-CB-12LP		1		
17J	SR-41 RT	1153+50.00	33 LT	101B	748.06	#12-LP	32"X32"	3.86	D-CB-12LP	1			
TOTALS										**9**	**3**	**0**	**3**

(1) JACK IN PLACE

PAVEMENT QUANTITIES - S.R. 41 ROBERTSON CO. - 74096-3201-14

LOCATION	303-01 (TON)	307-01.08 (TON)	307-02.01 (TON)	307-02.02 (TON)	307-02.03 (TON)	307-02.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)	411-02.10 (TON)	415-01.01 (TON)	701-02 (S.F.)	710-02 (L.F.)
S.R. 41 LT & RT	3170		1361	26	773	1013	8	28	6		594	280		2817
DRIVES & ENTRANCES	228	71								48			1449	
TOTALS	**3398**	**71**	**1361**	**26**	**773**	**1013**	**8**	**28**	**6**	**48**	**594**	**280**	**1449**	**2817**

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AN

STORM DRAINAGE PIPES - S.R. 41 ROBERTSON CO. - 74096-3201-14

	SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.) 18"	24"	30"	36"	48"	SOD (S.Y.)	RIP-RAP 709-05.06 (TON)	REINFORCED CONC. PIPE - CLASS IV SIZE & LENGTH (L.F.) 24"
	17A	93	736.20	95	731.77	1.49	298							
	17A	113	739.40	115	736.13	2.23	82							
	17E	95	731.65	95A	731.45	1.00	20					1.4		
	17E	97	729.35	97A	729.15	1.00	20					2.7		
	17E	99	726.40	99A	726.20	1.00	20					5.5		
	17H	103	741.00	103C	740.76	0.5			18			13.8	41	
(1)	17H	104	741.50	103	741.20	0.46								33
	17H	105	742.50	103A	741.75	0.6	126							
	17H	107	746.50	105	742.50	1.42	281							
	17H	109	747.00	111	743.62	1.06	318							
	17H	111	743.50	113	739.52	1.75	228							
	17H	103A	741.60	103	741.25	1.36		27						
	17H	103B	741.35	103	741.20	0.58		27						
	17J	101	743.35	101A	742.35	0.51	196							
	17J	101A	742.00	103B	741.50	0.48		104						
	17J	101B	744.20	101	743.50	0.48	148							
	TOTALS						1738	158	18	0	0	24	41	33

(1) TO BE JACKED IN PLACE

STORM DRAINAGE ENDWALLS - S.R. 41 ROBERTSON CO. - 74096-3201-14

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	30 IN. ENDWALL 3:1 611-07.60 (EA.)
17E	SR-41 LT	1123+22	34.12 LT	99A	"ST"	D-PE-4	1.16	40	
17E	SR-41 LT	1125+00	37.22 LT	97A	"ST"	D-PE-4	1.16	40	
17E	SR-41 LT	1126+50	40 LT	95A	"ST"	D-PE-4	1.16	40	
17H	SR-41 RT	1148+63	52.84 LT	103C	"U" W/O GRATE	D-PE-30(A&B)			1
TOTALS							4	120	1

ESTIMATED GRADING QUANTITIES - S.R. 41 ROBERTSON CO. - 74096-3201-14

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) COMMON - C.Y.	ROAD & DRAINAGE EXC. (UNCL.) S. ROCK - C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
1134+15 - 1154+76.47	4277					779	2915
TOTALS	4277	0	0	0	0	779	2915

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2A0

SIDE DRAIN TABULATION - S.R. 41 SUMNER CO. - 83008-3229-14

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.					RCP CLASS III (L.F) FILL HEIGHT < 10 FT	END TREATMENT		REMARKS
	LT	RT		(L.F.)	15"	18"	24"	30"	36"	23"x14" HOCP	TYPE	DRAWING NO.	
1123+25.00 (S.R.41 LT)		X	FIELD ENT.	20		38							NO EW'S REQ'D
1124+66.95 (S.R.41 LT)		X	FIELD ENT.	20		38							NO EW'S REQ'D
1127+13.88 (S.R.41 LT)		X	PRIVATE DRIVE	12		24							NO EW'S REQ'D
1127+35.91 (S.R.41 LT)		X	PRIVATE DRIVE	12		22							NO EW'S REQ'D
TOTALS					0	122	0	0	0	0			

CATCH BASINS AND MANHOLES - S.R. 41 SUMNER CO. - 83008-3229-14

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS			
										TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 14 611-14.01 0' - 4'	TYPE 14 611-14.02 4' - 8'
17A	SR-41 LT	1129+50.00	31 RT	94	739.75	#12-LP	32"X32"	3.95	D-CB-12LP	1			
17A	SR-41 RT	1135+00.00	33 RT	114	743.38	#12-LP	32"X32"	3.98	D-CB-12LP	1			
17E	SR-41 LT	1123+50.00	15.09 RT	100	730.65	#12-LP	32"X32"	4.00	D-CB-12LP	1			
17E	SR-41 LT	1125+00.00	17.82 RT	98	733.10	#12-LP	32"X32"	3.75	D-CB-12LP	1			
17E	SR-41 LT	1126+50.00	20.55 RT	96	735.40	#12-LP	32"X32"	3.75	D-CB-12LP	1			
17H	SR-41 RT	1137+30.00	33 RT	112	747.30	#12-LP	32"X32"	3.80	D-CB-12LP	1			
17H	SR-41 RT	1140+00.00	33 RT	110	750.60	#12-LP	32"X32"	4.00	D-CB-12LP	1			
17H	SR-41 RT	1144+15.00	33 RT	108	750.30	#12-LP	32"X32"	3.80	D-CB-12LP	1			
17H	SR-41 RT	1147+00.00	33 RT	106	747.05	#14-S	8'x 3'	3.95	D-CB-14S			1	
17H	SR-41 RT	1148+30.00	33 RT	104A	746.18	#12-LP	32"X32"	3.93	D-CB-12LP	1			
17H	SR-41 RT	1148+61.00	33 RT	104	746.15	#14-S	8'x 3'	4.65	D-CB-14S				1
17H	SR-41 RT	1148+92.00	33 RT	104B	746.18	#12-LP	32"X32"	4.38	D-CB-12LP		1		
17J	SR-41 RT	1150+00.00	33 RT	102A	746.64	#14-S	8'x 3'	4.24	D-CB-14S				1
17J	SR-41 RT	1152+00.00	33 RT	102	747.39	#12-LP	32"X32"	3.84	D-CB-12LP	1			
TOTALS										10	1	1	2

STORM DRAINAGE PIPES - S.R. 41 SUMNER CO. - 83008-3229-14

SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					SOD (S.Y.)	RIP-RAP 709-05.06 (TON)
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		18"	24"	30"	36"	48"		
17A	94	735.80	96	731.77	1.23	298						
17A	114	739.40	116	735.50	2.57	82						
17E	96	731.65	96A	731.45	1	20					2.7	
17E	98	729.35	98A	729.15	1	20					2.7	
17E	100	726.65	100A	726.50	0.83	18					5.5	
17H	102	743.55	102A	742.75	0.41	196						
17H	104	741.50	103	741.20	0.46		32					
17H	106	743.10	104A	742.40	0.56	126						
17H	108	746.50	106	743.45	1.09	281						
17H	110	746.60	112	743.62	1.12	267						
17H	112	743.50	114	739.52	1.75	228						
17H	102A	742.40	104B	741.95	0.43	104						
17H	104A	742.25	104	741.75	1.95	27						
17H	104B	741.80	104	741.68	0.47	27						
TOTALS						1694	32	0	0	0	11	0

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TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AP

STORM DRAINAGE ENDWALLS - S.R. 41 SUMNER CO. - 83008-3229-14

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	30 IN. ENDWALL 3:1 611-07.60 (EA.)
17E	SR-41 LT	1123+50	35.10 RT	100A	"ST"	D-PE-4	1.16	40	
17E	SR-41 LT	1125+00	37.22 RT	98A	"ST"	D-PE-4	1.16	40	
17E	SR-41 LT	1126+50	40 RT	96A	"ST"	D-PE-4	1.16	40	
TOTALS							**4**	**120**	**0**

PAVEMENT QUANTITIES - S.R. 41 SUMNER CO. - 83008-3229-14

LOCATION	303-01 (TON)	307-01.08 (TON)	307-02.01 (TON)	307-02.02 (TON)	307-02.03 (TON)	307-02.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)	411-02.10 (TON)	415-01.01 (TON)	710-02 (L.F.)
S.R. 41 LT & RT	3606		1518	29	862	1018	9	33	6		597	233	2817
DRIVES & ENTRANCES	260	70								48			
TOTALS	**3866**	**70**	**1518**	**29**	**862**	**1018**	**9**	**33**	**6**	**48**	**597**	**233**	**2817**

ESTIMATED GRADING QUANTITIES - S.R. 41 SUMNER CO. - 83008-3229-14

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.)		BORROW EXCAVATION		CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
	COMMON - C.Y.	S. ROCK - C.Y.	UNCL. - C.Y.	S. ROCK - C.Y.			
1134+15 - 1154+76.47	3405		1574				4150
TOTALS	**3405**	**0**	**1574**	**0**	**0**	**0**	**4150**

UNOFFICIAL SET
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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AQ

CROSS DRAIN TABULATION - SIMPSON CO., KY I-65 - 74003-3168-44

STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 18 FT. 18"	24"	30"	36"	48"	SKEW	RIP-RAP CLASS A-1 709-05.06 (TON)	RIP-RAP CLASS B 709-05.08 (TON)	RIP-RAP CLASS C 709-05.09 (TON)	CEMENT CONCRETE DITCH PAVING 703-01 (C.Y.)	T.R.M. CL III (S.Y.)	SOD 803-01 (S.Y.)	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	REMARKS
I-65 1882+39.64	19					89° 59' 16" LT							4:1 "U"	D-PE-18 (A&B)	"JB"	D-JBS-1	
I-65 1882+39.64	22					89° 59' 16" LT							"JB"	D-JBS-1			OUTLET EW AND PART OF PIPE
																	IN ROBERTSON CO. QUANTS.
TOTALS	**41**	**0**	**0**	**0**	**0**		**0**	**0**	**0**	**0**	**0**	**0**					

CROSS DRAIN ENDWALLS - SIMPSON CO., KY I-65 - 74003-3168-44

LOCATION	CROSS DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	18 IN. ENDWALL 4:1 611-07.55 (EA.)
I-65	1882+39.64	108.17 RT	4:1 "U"	D-PE-18(A&B)	89° 59' 16" LT			1
TOTALS						**0**	**0**	**1**

REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK -

PAY ITEM	TRACT NO.	DESCRIPTION
202-06.05	52K	WOOD SHED

NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.

UNOFFICIAL SET
NOT FOR BIDDING

MEDIAN DRAIN TABULATION - SIMPSON CO., KY I-65 - 74003-3168-44

STATION	CODE	RCP CLASS III OR HDPE 0R PVC (L.F.) FILL HEIGHT < OR = 18 FT. 18"	24"	30"	SKEW	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	REMARKS
I-65 1883+00.00	27	58			90° LT	#31SD	D-CB-31SD	6:1 "U"	D-PE-18(A&B)	
I-65 1891+29.38	33	78			90° LT	#31SD	D-CB-31SD	3:1 "U"	D-PE-18(A&B)	
I-65 1893+20.00	34	190				#42S	D-CB-42S			TIE TO STRUCT. # 33
I-65 1894+00.00	35	80				#42S	D-CB-42S			TIE TO STRUCT. # 34
I-65 1894+50.00	36	50				#42S	D-CB-42S			TIE TO STRUCT. # 35
TOTALS		**456**	**0**	**0**						

MEDIAN DRAIN ENDWALLS - SIMPSON CO., KY I-65 - 74003-3168-44

LOCATION	MEDIAN DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	18 IN. ENDWALL 3:1 611-07.54 (EA.)	18 IN. ENDWALL 6:1 611-07.56 (EA.)
I-65	1883+00.00	123.63 LT	6:1 "U"	D-PE-18(A&B)	90° LT				1
I-65	1891+29.38	144.80 LT	3:1 "U"	D-PE-18(A&B)	90° LT			1	
TOTALS						**0**	**0**	**1**	**1**

R.O.W. MARKERS SIMPSON CO., KY I-65 - 74003-3168-44

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
10	3	0	0	**3**
11	3	0	0	**3**
12	0	0	0	**0**
TOTALS	**6**	**0**	**0**	**6**

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TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AR

CATCH BASINS AND MANHOLES - SIMPSON CO., KY I-65 - 74003-3168-44

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS			
										NO.1 JB 611-02.10	TYPE 31 611-31.02 4' - 8'	TYPE 31 611-31.04 12' - 16'	TYPE 42 611-42.01 0' - 4'
10A	I-65	1882+39.64	89.11 RT	26	746.00	#1-JB	32" x 32"	4.66	D-JBS-1	1			
10A	I-65	1882+39.64	82.91 LT	28	745.00	#1-JB	32" x 32"	4.40	D-JBS-1	1			
10A	I-65	1883+00.00	61.75 LT	27	750.10	#31-SD	7' x 7'	5.10	D-CB-31SD		1		
11A	I-65	1891+29.38	61.75 LT	33	769.50	#31-SD	7' x 7'	15.65	D-CB-31SD			1	
11A	I-65	1893+20	58.40 LT	34	772.35	#42-S	32" x 32"	2.95	D-CB-42S				1
11A	I-65	1894+00	59.51 LT	35	773.10	#42-S	32" x 32"	3.10	D-CB-42S				1
11A	I-65	1894+50	58.10 LT	36	773.55	#42-S	32" x 32"	3.05	D-CB-42S				1
TOTALS										**2**	**1**	**1**	**3**

PAVEMENT QUANTITIES - SIMPSON CO., KY I-65 - 74003-3168-44

LOCATION	303-01 (TON)	307-01.08 (TON)	307-03.01 (TON)	307-03.02 (TON)	307-03.03 (TON)	307-03.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.07 (TON)	411-03.15 (TON)	411-03.16 (TON)	415.01.01 (TON)	710-02 (L.F.)
INTERSTATE 65	9414	300	2838	34	1003	2088	14	54	15		65	1015	121	1485
MAINTENANCE OF TRAFFIC										215			219	
TOTALS	**9414**	**300**	**2838**	**34**	**1003**	**2088**	**14**	**54**	**16**	**215**	**65**	**1015**	**340**	**1485**

PROPOSED CONCRETE MEDIAN BARRIER - SIMPSON CO., KY I-65 - 74003-3168-44

SHEET NO.	LOCATION	SIDE		STATION		CONCRETE MEDIAN BARRIER WALL (32") 711-05.70 (L.F.)	CONCRETE MEDIAN BARRIER WALL (51") 711-05.71 (L.F.)	FLARED S/S CONCRETE MEDIAN BARRIER WALL 711-05.77 (L.F.)	CONCRETE SIDEWALK (4" THICK) 701-01.01 (S.F.)	MINERAL AGGREGATE SIZE 57 303-10.01 (TON)	REMARKS
		LT	RT	FROM	TO						
10A	CD ROAD			1882+16	1885+00	284					
11A	CD ROAD			1885+00	1892+88	788					
10A	I65			1884+40	1884+40			40.3			
11A	I65			1897+00	1897+00			40.3			
TOTALS						**1072**	**0**	**81**	**0**	**0**	

ESTIMATED GRADING QUANTITIES - SIMPSON CO., KY I-65 - 74003-3168-44

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.)		BORROW EXCAVATION		CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
	COMMON - C.Y.	S. ROCK - C.Y.	UNCL. - C.Y.	S. ROCK - C.Y.			
I-65 1813+29.95 - 1906+00	4378		10268				11500
TOTALS	**4378**	**0**	**10268**	**0**	**0**	**0**	**11500**

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2L
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AS

RAMP H

RAMP H
CURVE DC150
PI 452+18.94
N 837,353.5392
E 1,799,476.1079
Δ 80° 06′ 22″ (RT)
D 22° 00′ 00″
R 260.44
L 364.12
T 218.94
SE 0.080 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH SEE SECTIONS

RAMP H
CURVE DC151
PI 462+34.34
N 836,781.6374
E 1,798,549.1757
Δ 102° 28′ 52″ (LT)
D 10° 00′ 00″
R 572.96
L 1,024.81
T 713.65
SE 0.078 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 210

RAMP H
CURVE DC152
PI 474+68.74
N 835,607.2393
E 1,799,689.4372
Δs 57° 38′ 40″ (RT)
θs 9° 00′ 00″
Δc 39° 38′ 40″ (RT)
Dc 7° 30′ 00″
Rc 763.94
Lc 528.59
Ts 542.00
Ls 240.00
SE 0.080 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 240

S.R. 109

S.R. 109
CURVE DC22
PI 394+83.97
N 837,469.4478
E 1,799,352.2771
Δs 48° 20′ 34″ (RT)
θs 9° 58′ 30″
Δc 28° 23′ 34″ (RT)
Dc 4° 45′ 00″
Rc 1,206.23
Lc 597.75
Ts 753.90
Ls 420.00
SE 0.080 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 420

S.R. 109
CURVE DC114
PI 408+53.19
N 838,908.6822
E 1,799,341.5365
Δ 48° 22′ 45″ (LT)
D 12° 15′ 00″
R 467.72
L 394.93
T 210.10
SE 0.080 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 315

RAMP E

RAMP E
CURVE DC108
PI 302+88.14
N 836,833.7106
E 1,800,004.1540
Δ 296° 43′ 47″ (RT)
D 12° 15′ 00″
R 467.72
L 2,422.28
T 288.14
SE 0.080 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH SEE SECTIONS

EUBANKS ROAD

EUBANKS ROAD
CURVE DC115
PI 32+20.20
N 838,393.4188
E 1,799,594.3309
Δ 39° 24′ 20″ (LT)
D 19° 05′ 55″
R 300.00
L 206.33
T 107.43
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH SEE SECTIONS

EUBANKS ROAD

EUBANKS ROAD
CURVE DC31
PI 27+11.37
N 838,429.5226
E 1,799,086.7818
Δ 0° 55′ 44″ (RT)
D 0° 45′ 00″
R 7,639.44
L 123.84
T 61.92
SE NC
DESIGN SPEED 40 MPH

RAMP "I"

RAMP "I"
CURVE DC105
PI 502+51.45
N 837,792.9441
E 1,800,250.6935
Δ 35° 10′ 34″ (RT)
D 19° 00′ 00″
R 301.56
L 185.14
T 95.59
SE 0.079 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH SEE SECTIONS

RAMP "I"

RAMP "I"
CURVE DC109
PI 499+37.72
N 838,088.5114
E 1,800,138.8213
Δ 25° 40′ 50″ (LT)
D 19° 05′ 55″
R 300.00
L 134.46
T 68.38
SE EXISTING
DESIGN SPEED 30 MPH
TRANS. LENGTH SEE SECTIONS

RAMP J

RAMP J
CURVE DC32
PI 560+12.91
N 838,921.5103
E 1,800,480.7110
Δ 21° 52′ 53″ (RT)
D 11° 00′ 00″
R 520.87
L 198.92
T 100.69
SE 0.063 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH SEE SECTIONS

RAMP K

RAMP K
CURVE DC33
PI 600+96.86
N 839,003.1668
E 1,800,507.9818
Δ 30° 16′ 15″ (RT)
D 16° 00′ 00″
R 358.10
L 189.19
T 96.86
SE 0.074 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH SEE SECTIONS

S. OLD DETOUR ROAD TIE TO LAKE SPRINGS ROAD

S. OLD DETOUR ROAD TIE
TO LAKE SPRINGS ROAD
CURVE DC130
PI 28+06.58
N 837,332.0552
E 1,800,044.0585
Δ 1° 37′ 34″ (RT)
D 4° 30′ 00″
R 1,273.24
L 36.14
T 18.07
SE MATCH EXISTING
DESIGN SPEED MATCH EXISTING
TRANS. LENGTH MATCH EXISTING

S. OLD DETOUR ROAD TIE
TO LAKE SPRINGS ROAD
CURVE DC131
PI 29+52.80
N 837,472.6210
E 1,800,084.3378
Δ 2° 33′ 31″ (LT)
D 4° 30′ 00″
R 1,273.24
L 56.86
T 28.43
SE MATCH EXISTING
DESIGN SPEED MATCH EXISTING
TRANS. LENGTH MATCH EXISTING

S. OLD DETOUR ROAD TIE TO LAKE SPRINGS ROAD

S. OLD DETOUR ROAD TIE
TO LAKE SPRINGS ROAD
CURVE DC122
PI 31+94.17
N 837,707.3992
E 1,800,140.4047
Δ 46° 48′ 22″ (LT)
D 28° 00′ 00″
R 204.63
L 167.16
T 88.56
SE 0.036 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 90

S. OLD DETOUR ROAD TIE TO LAKE SPRINGS ROAD

S. OLD DETOUR ROAD TIE
TO LAKE SPRINGS ROAD
CURVE DC123
PI 34+72.53
N 837,948.1725
E 1,799,981.7963
Δ 11° 20′ 10″ (RT)
D 4° 30′ 00″
R 1,273.24
L 251.91
T 126.37
SE 0.025 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 100

S. OLD DETOUR ROAD TIE TO LAKE SPRINGS ROAD FOR REFERENCE ONLY

S. OLD DETOUR ROAD TIE TO
LAKE SPRINGS ROAD
CURVE DC132 - REFERENCE ONLY
PI 37+01.00
N 838,160.7178
E 1,799,895.7558
Δ 2° 02′ 00″ (RT)
D 1° 38′ 13″
R 3,500.00
L 124.21
T 62.11
SE MATCH EXISTING
DESIGN SPEED MATCH EXISTING
TRANS. LENGTH MATCH EXISTING

FRONTAGE ROAD

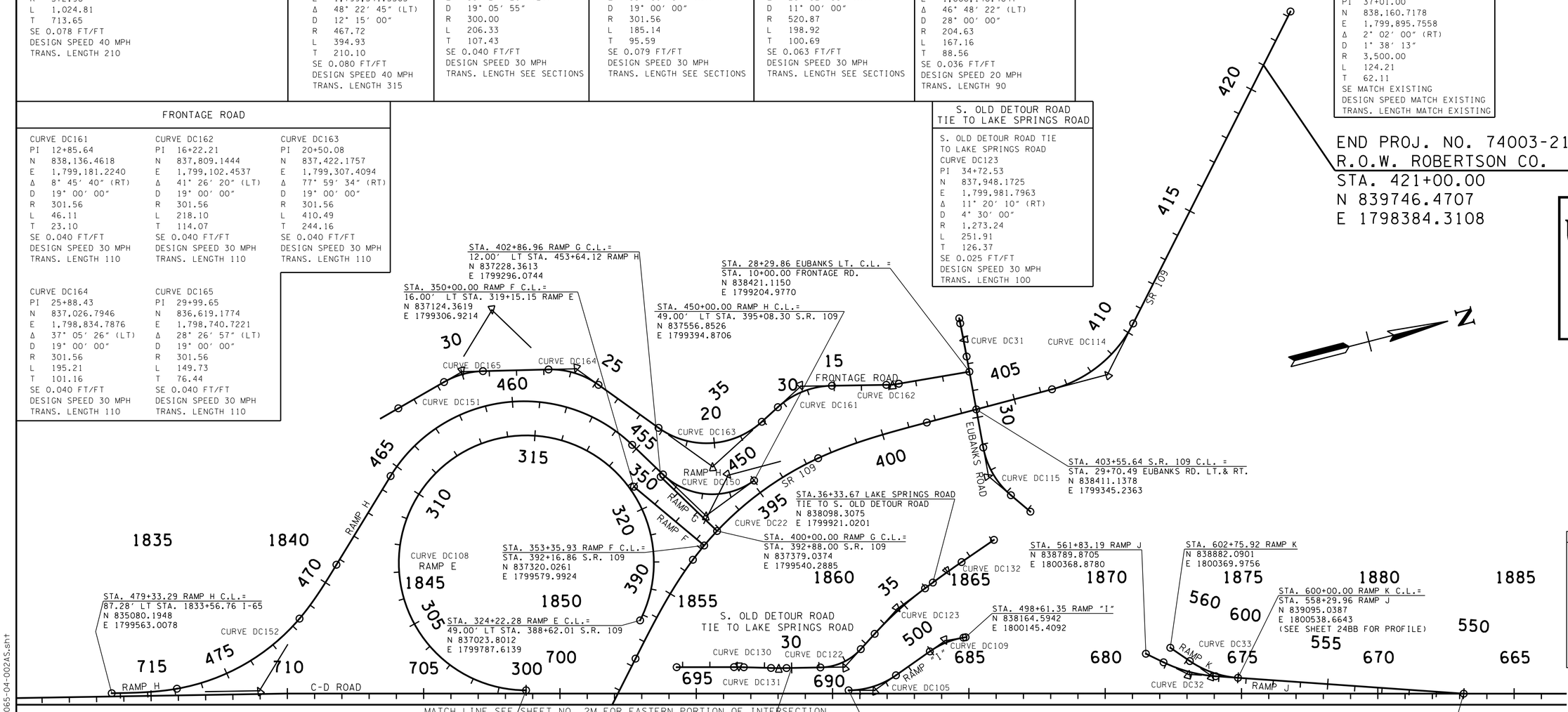
CURVE DC161
PI 12+85.64
N 838,136.4618
E 1,799,181.2240
Δ 8° 45′ 40″ (RT)
D 19° 00′ 00″
R 301.56
L 46.11
T 23.10
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110

CURVE DC162
PI 16+22.21
N 837,809.1444
E 1,799,102.4537
Δ 41° 26′ 20″ (LT)
D 19° 00′ 00″
R 301.56
L 218.10
T 114.07
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110

CURVE DC163
PI 20+50.08
N 837,422.1757
E 1,799,307.4094
Δ 77° 59′ 34″ (RT)
D 19° 00′ 00″
R 301.56
L 410.49
T 244.16
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110

CURVE DC164
PI 25+88.43
N 837,026.7946
E 1,798,834.7876
Δ 37° 05′ 26″ (LT)
D 19° 00′ 00″
R 301.56
L 195.21
T 101.16
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110

CURVE DC165
PI 29+99.65
N 836,619.1774
E 1,798,740.7221
Δ 28° 26′ 57″ (LT)
D 19° 00′ 00″
R 301.56
L 149.73
T 76.44
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110



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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT 1

I-65 AT S.R. 109

SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

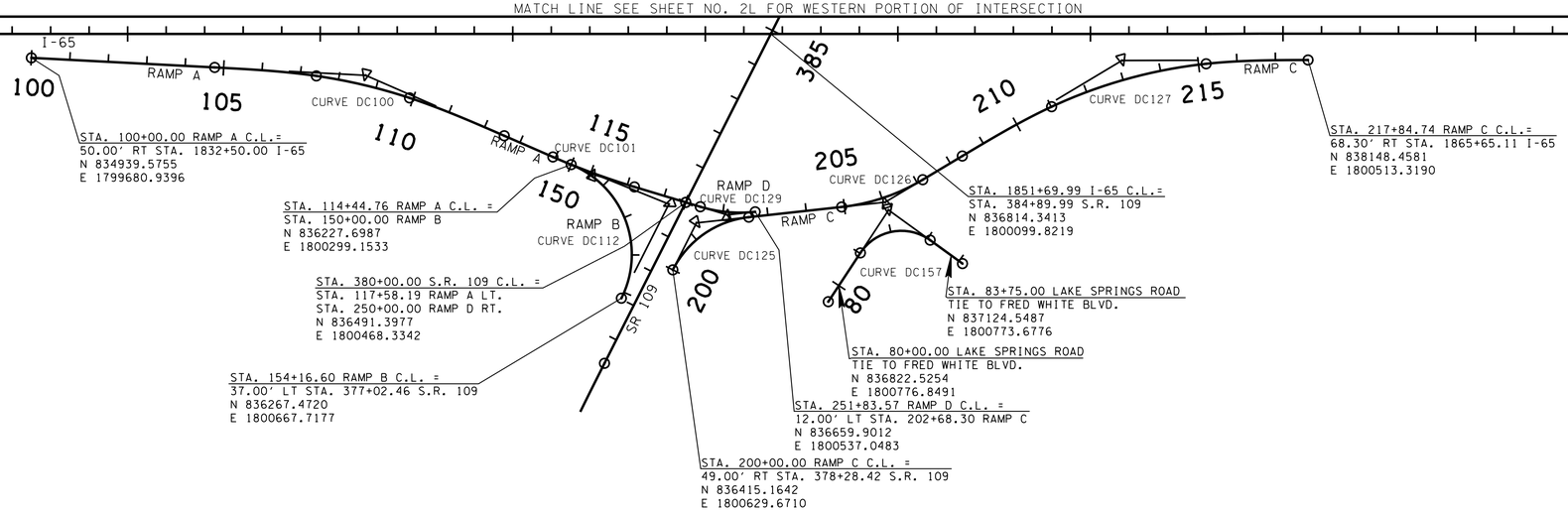
RAMP A	RAMP B	RAMP C	RAMP D
RAMP A CURVE DC100 PI 108+69.24 N 835,768.8373 E 1,799,941.5200 Δs 20° 33′ 23″ (RT) θs 5° 18′ 00″ Δc 9° 57′ 23″ (RT) Dc 4° 00′ 00″ Rc 1,432.39 Lc 248.91 Ts 392.58 Ls 265.00 SE 0.078 FT/FT DESIGN SPEED 60 MPH TRANS. LENGTH 265 RAMP A CURVE DC101 PI 115+06.33 N 836,275.7892 E 1,800,337.6052 Δ 6° 46′ 17″ (LT) D 3° 00′ 00″ R 1,909.86 L 225.71 T 112.99 SE 0.025 FT/FT DESIGN SPEED 30 MPH TRANS. LENGTH 100	RAMP B CURVE DC112 PI 152+73.78 N 836,447.9114 E 1,800,461.8175 Δ 94° 46′ 39″ (RT) D 22° 45′ 00″ R 251.85 L 416.60 T 273.78 SE 0.080 FT/FT DESIGN SPEED 30 MPH TRANS. LENGTH SEE SECTIONS	RAMP C CURVE DC126 PI 206+06.52 N 836,992.9823 E 1,800,597.0065 Δ 24° 37′ 33″ (LT) D 11° 00′ 00″ R 520.87 L 223.87 T 113.69 SE 0.079 FT/FT DESIGN SPEED 40 MPH TRANS. LENGTH 210 RAMP C CURVE DC127 PI 213+19.63 N 837,680.2586 E 1,800,394.0342 Δs 30° 44′ 48″ (RT) θs 5° 57′ 45″ Δc 18° 49′ 18″ (RT) Dc 4° 30′ 00″ Rc 1,273.24 Lc 418.26 Ts 483.16 Ls 265.00 SE 0.078 FT/FT DESIGN SPEED 60 MPH TRANS. LENGTH 265	RAMP D CURVE DC129 PI 251+12.51 N 836,587.6017 E 1,800,526.6651 Δ 23° 03′ 25″ (LT) D 16° 00′ 00″ R 358.10 L 144.11 T 73.04 SE 0.051 FT/FT DESIGN SPEED 20 MPH TRANS. LENGTH 115
RAMP C			LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD.
RAMP C CURVE DC125 PI 201+36.58 N 836,505.1817 E 1,800,526.9516 Δ 56° 56′ 35″ (RT) D 22° 45′ 00″ R 251.85 L 250.30 T 136.58 SE 0.080 FT/FT DESIGN SPEED 30 MPH TRANS. LENGTH SEE SECTIONS			LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD. CURVE DC157 PI 82+34.88 N 836,996.4973 E 1,800,619.0442 Δ 92° 34′ 52″ (RT) D 45° 00′ 00″ R 127.32 L 205.74 T 133.19 SE 0.040 FT/FT DESIGN SPEED 20 MPH TRANS. LENGTH 100

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2M
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AT

N

1835 1840 1845 1850 1855 1860 1865 1870 1875 1880 1885

MATCH LINE SEE SHEET NO. 2L FOR WESTERN PORTION OF INTERSECTION



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT 2

I-65 AT S.R. 109

SCALE: 1"=200′

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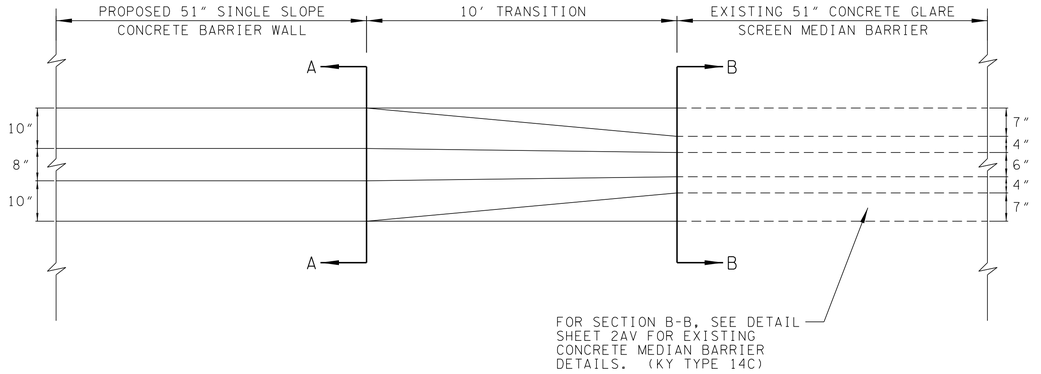
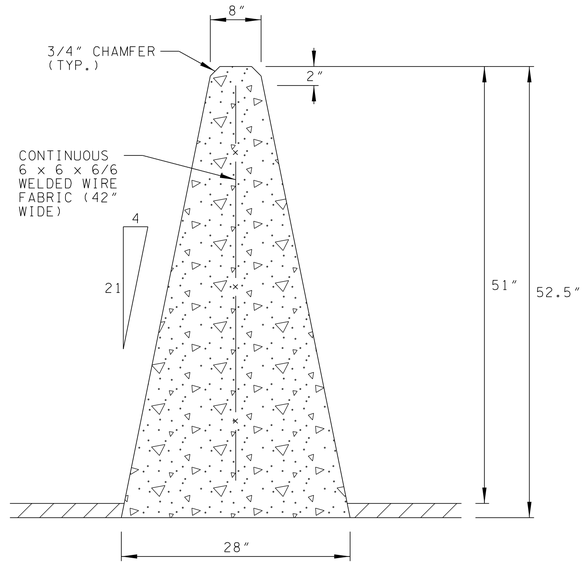
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AU





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DEPARTMENT OF TRANSPORTATION

DETAILS MEDIAN BARRIER TRANSITION

SCALE: N.T.S.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AV

NOTES

TRANSITION CONDITION NO. 1, 2 AND 3 ALONG WITH SYMMETRICAL AND ASYMMETRICAL BARRIER SECTIONS ARE DEPICTED ON THIS DRAWING FOR ILLUSTRATION PURPOSES ONLY AT STRUCTURES AND FIXED OBJECTS. (SEE PLANS FOR ADDITIONAL DETAILS)

ALL PAVEMENT, FILL MATERIAL, PIPE DRAINAGE (EXCLUSIVE OF WEEP HOLE PIPE) PLACED BETWEEN SEGMENTS OF THE BARRIER SHALL BE SHOWN SEPARATELY OR INCLUDED WITH OTHER LIKE PAY ITEMS ON THE PROJECT.

FOR APPLICATION DETAILS SEE DRAWING ENTITLED "CONCRETE MEDIAN BARRIER, FIXED FORM OR SLIP FORM (PERMANENT) (50" TALL WALL)".

THE METHOD OF MEASUREMENT FOR CONCRETE MEDIAN BARRIER FOR EACH TYPE WILL BE IN LINEAR FEET MEASURED ALONG THE TOP CENTERLINE OF THE BARRIER.

THE SEPARATE OR SOLID BARRIER SHALL BE SHOWN IN THE BID ITEM AS FOLLOWS: "CONCRETE MEDIAN BARRIER TYPE ⊕ ⊕ ☆ (50)"

⊕ 12, OR 14 DEPENDING ON "W"

⊕ A, B OR C DEPENDING ON PAVEMENT APPLICATION.

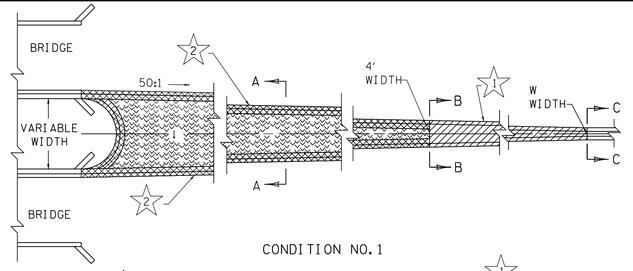
☆ 1 = SOLID SEGMENT- DENOTES BARRIER WALL WITH:
- a. TRANSITION FROM "W" WIDTH TO MAX. WIDTH OF 4'.
- b. CONSTANT WIDTH WALL GREATER THAN "W" WIDE BUT NOT GREATER THAN 4' WIDE. (EX.: WALL BETWEEN BRDG. PIERS).

2 = SEPARATE SEGMENT

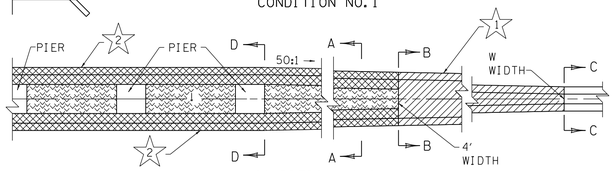
(3) SEE ELSEWHERE IN PLANS FOR SIZE, LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.

(4) 4" PIPE FOR WEEP HOLES SPACED ON 20' CENTERS AND STAGGERED 10' WITH EACH WALL.

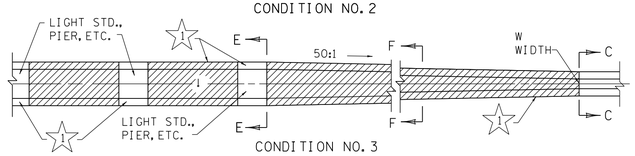
(5) VARIABLE WIDTH



CONDITION NO. 1



CONDITION NO. 2



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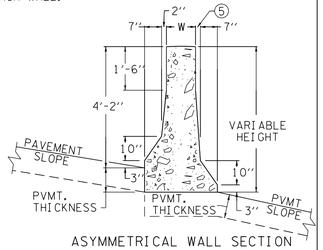
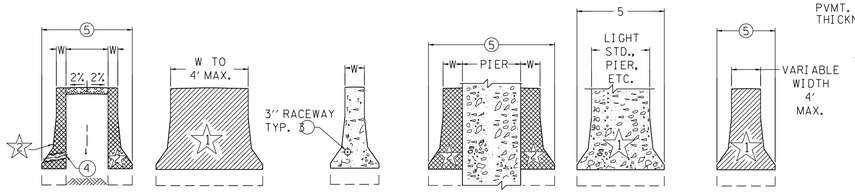
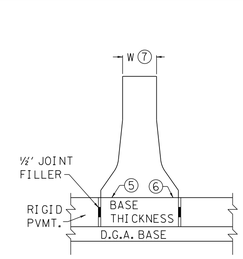


ASYMMETRICAL WALL SECTION

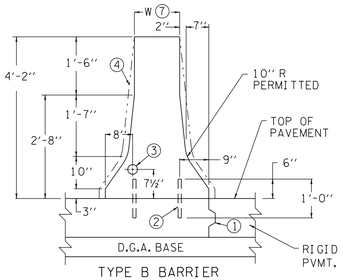


SECTION A-A | SECTION B-B | NORMAL SECTION C-C | SECTION D-D | SECTION E-E | SECTION F-F

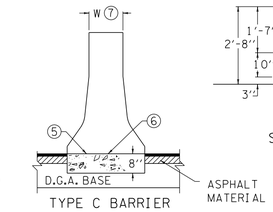
KENTUCKY DEPARTMENT OF HIGHWAYS
CONCRETE MEDIAN BARRIER SYMMETRICAL & ASYMMETRICAL SEPARATE & TRANSITION DETAILS (50" TALL WALL)
STANDARD DRAWING NO. RBM-060
SUBMITTED ____ DIRECTOR DIVISION OF DESIGN ____ DATE
APPROVED ____ STATE HIGHWAY ENGINEER ____ DATE



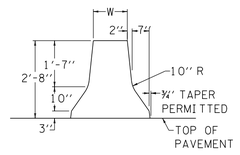
TYPE A BARRIER
(NEW RIGID PAVEMENT)



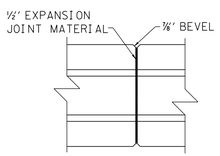
TYPE B BARRIER
(NEW RIGID PAVEMENT)



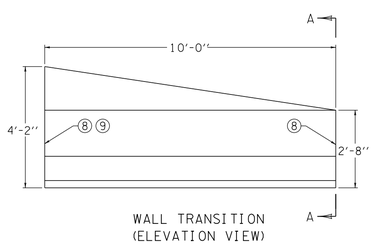
TYPE C BARRIER
(NEW FLEXIBLE PAVEMENT)



SECTION A-A



EXPANSION JOINT DETAIL



WALL TRANSITION
(ELEVATION VIEW)

Δ NOTES Δ

THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR "CONCRETE MEDIAN BARRIER TYP ☆ ⊕ 50" SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

☆ 12 OR 14 DEPENDING ON W.

⊕ A, B OR C DEPENDING ON PAVEMENT TYPE.

(1) LONGITUDINAL CONSTRUCTION JOINT WITHOUT TIE BARS IS REQUIRED AND SHALL BE PLACED AT THE LOCATION SHOWN OR MAY BE INSTALLED AT THE CORRESPONDING POINT ON THE OPPOSITE SIDE OF THE BARRIER, AT THE OPTION OF THE CONTRACTOR. IT SHALL BE REQUIRED ON THE LOW SIDE OF A SUPERELEVATED SECTION.

(2) NO. 8 DOWEL BARS SPACED 4'-0" O.C. AND STAGGERED 2'-0".

(3) 3" RACEWAY (TYPICAL) SEE ELSEWHERE IN THE PLANS FOR LOCATION AND PAYMENT FOR RACEWAY WHEN REQUIRED.

(4) WALL MAY BE FORMED AS DEPICTED BY PHANTOM LINES.

(5) WHEN A CONSTRUCTION JOINT IS USED, DOWEL BARS WILL BE REQUIRED AS SHOWN WITH TYPE B BARRIERS.

(6) CONSTRUCTION JOINT PERMITTED WHEN FIXED FORMS OR SLIP FORMS ARE USED.

(7) A 14" WALL IS REQUIRED ONLY WHEN THE ROADWAY WILL BE LIGHTED FROM THE MEDIAN.

(8) THE WALL TRANSITION DETAILED IS FOR A FIXED-FORM OR SLIP-FORM WALL. SEE CURRENT STANDARD DRAWING RBM-053 FOR CONNECTION DETAILS, STEEL PLACEMENT,

(9) SEE TYPE B BARRIER DETAIL FOR WALL DIMENSIONS.

APPROX. QUANTITIES PER LINEAR FOOT

TYPE	12" WALL		14" WALL	
	CONC. IN CU. YDS.	STEEL IN POUNDS	CONC. IN CU. YDS.	STEEL IN POUNDS
A	0.27	Δ1.34	0.30	Δ1.34
B	0.21	1.34	0.23	1.34
C	0.27	Δ1.34	0.30	Δ1.34

Δ WHEN REQUIRED

CONCRETE QUANTITIES SHOWN INCLUDE 8" BASE THICKNESS FOR TYPE A AND TYPE C.

USE WITH CUR. STD. DWG. RBM-053

KENTUCKY DEPARTMENT OF HIGHWAYS
CONCRETE MEDIAN BARRIER FIXED-FORM OR SLIP-FORM (PERMANENT) (50" TALL WALL)
STANDARD DRAWING NO. RBM-050
SUBMITTED ____ DIRECTOR DIVISION OF DESIGN ____ DATE
APPROVED ____ STATE HIGHWAY ENGINEER ____ DATE

NOTE: SHEETS ARE INCLUDED FOR REFERENCI
EXISTING MEDIAN BARRIER WALL IS REMOVI
NEW MEDIAN BARRIER WALL IS CONSTRUCTED FOR SUPPORT OF THE OVERHEAD SIGN STRUCTURES (STA. 1884+40 & STA. 1897+00). SEE DETAILS ON STD. DWG. S-SSMB-8.
NEW BARRIER WALL WILL NEED TO BE TRANSITIONED BACK DOWN TO MATCH EXISTING.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING MEDIAN BARRIER DETAIL SHEET

9/23/2014 9:11:35 AM
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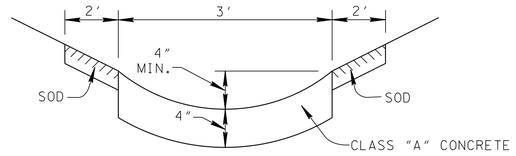
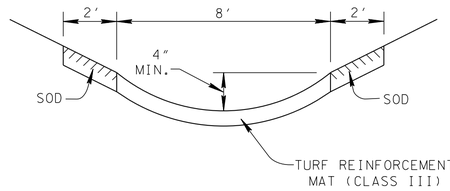
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2N
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AW



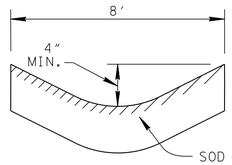
PAVED V-DITCH DETAIL

FOR LOCATIONS SEE TABULATION BLOCK
PAVED DITCH TO BE PAID FOR AS FOLLOWS:
ITEM NO. 703-01, PAVED DITCH, CUBIC YARD



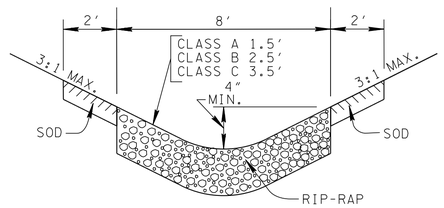
TURF REINFORCEMENT MAT (CLASS III) V-DITCH DETAIL

FOR LOCATIONS SEE TABULATION BLOCK TURF REINFORCEMENT MAT DITCH TO BE PAID FOR AS FOLLOWS:
ITEM NO. 805-01.03, TURF REINFORCEMENT MAT (CLASS III), SQUARE YARD



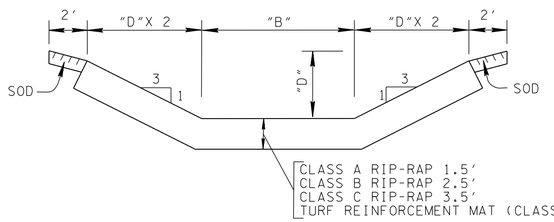
SOD V-DITCH DETAIL

FOR LOCATIONS SEE TABULATION BLOCK
SOD DITCH TO BE PAID FOR AS FOLLOWS:
ITEM NO. 803-01, SODDING (NEW SOD), SQUARE YARD



RIP-RAP V-DITCH DETAIL

FOR LOCATIONS SEE TABULATION BLOCK
RIP-RAP DITCHES TO BE PAID FOR AS FOLLOWS:
ITEM NO. 709-05.06, MACHINED RIP-RAP (CLASS A),TON
ITEM NO. 709-05.08, MACHINED RIP-RAP (CLASS B),TON



TRAPEZOIDAL DITCH DETAIL

FOR DITCH LINING TYPE, LOCATION, DEPTH, AND BOTTOM WIDTH
SEE TABULATION BLOCK

DITCH LINING TABULATED QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		PAVED		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	TON	TON	C.Y.	S.Y.	S.Y.
I-65																
1813+85	PO-RT			2	1							1.6				0.9
1813+87 TO 1814+39	LT-SP							V	0					4.0		58.2
1814+00 TO 1816+50	LT	V	0													222.2
1814+00 TO 1816+50	RT	V	0													222.2
1816+50 TO 1818+00	RT-SP									V					173.3	66.7
1816+50 TO 1826+00	LT-SP									V					1097.8	422.2
1818+00 TO 1820+50	RT	V	0													222.2
1825+00	PO-RT					4	2						4.7			
1826+00 TO 1830+50	LT-SP									V					520.0	200.0
1828+50	PO-RT					2	1						24.3			8.0
1829+50	PO-RT									2	1				26.8	12.9
1830+50 TO 1831+00	LT-SP					V	0						22.2			
1830+99.93	RCBBO-LT															
1831+00 TO 1833+50	LT-SP	4	1													398.9
1831+00.13	RCBBI-RT															
1831+50 TO 1832+00	RT-SP					4	2						167.2			22.2
1832+00 TO 1834+50	RT-SP									4	2				573.3	111.1
1834+50 TO 1839+00	RT-SP									V					520.0	200.0
1837+50 TO 1839+00	LT-SP									V					173.3	66.7
1839+70	PO-LT	2	1													20.7
1840+50 TO 1842+50	RT	V	0													177.8
1841+50	PO-LT			2	1							9.8				5.3
1842+50 TO 1843+00	RT-SP									V					57.8	22.2
1842+50 TO 1843+50	LT	V	0													88.9
1843+00 TO 1844+00	RT-SP	V	0													88.9
1844+00 TO 1845+00	RT-SP									V					115.6	44.4
1845+00 TO 1846+00	RT	V	0													88.9
1846+00 TO 1848+50	RT-SP	V	0													222.2
1848+50 TO 1851+50	RT	V	0													266.7
1849+00 TO 1851+00	LT-SP	6	3													643.9
1852+50 TO 1853+00	RT-SP									V					57.8	22.2
1853+00 TO 1858+50	RT-SP	V	0													488.9
1853+50 TO 1859+00	LT-SP	V	0													488.9
1854+00	PO-LT															
1858+50 TO 1861+50	RT-SP									V					346.7	133.3
1859+00	PO-LT					2	1						18.9			6.2
1859+00 TO 1859+50	LT-SP									V					57.8	22.2
1859+50 TO 1860+50	LT	V	0													88.9
1862+50 TO 1865+00	LT-SP	V	0													222.2
1862+50 TO 1864+00	RT-SP									V					173.3	66.7
1864+00 TO 1865+15	RT-SP	V	0													102.2
1865+16.06	RCBBO-LT					10	varies						838.7			45.8
1866+00 TO 1867+00	LT-SP	V	0													88.9
1866+00 TO 1869+00	RT-SP									V					346.7	133.3
1866+12.12	RCBBI-RT					10	varies						140.7			26.7
1867+00 TO 1870+00	LT-SP	V	0													266.6
1869+00 TO 1874+50	RT-SP	V	0													488.9
1870+00	PO-LT			2	1							1.6				0.9
1870+00 TO 1870+50	LT-SP	V	0													44.4
1870+50 TO 1873+50	LT	V	0													266.7
1873+50 TO 1874+00	LT									V					57.8	22.2
1874+00 TO 1875+50	LT	V	0													133.3
1874+50 TO 1876+50	RT-SP									V					231.1	88.9
1876+50 TO 1880+50	RT-SP	V	0													355.6
1880+50 TO 1881+27.68	RT-SP									V					89.8	34.5
I-65 SUBTOTAL												13.0	1216.7	4.0	4618.9	7542.8

UNOFFICIAL SET
NOT FOR BIDDING

* LOCATION LEGEND

LT.	LEFT
RT.	RIGHT
M	MEDIAN DITCH
MO	MEDIAN OUTLET
PO	PIPE OUTLET
PI	PIPE INLET
RCBCO	BOX CULVERT OUTLET
RCBCI	BOX CULVERT INLET
RCBBO	BOX BRIDGE OUTLET
RCBBI	BOX BRIDGE INLET
SP	SPECIAL DITCH

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DITCH DETAIL SHEET

9/24/2014 10:56:54 PM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2"O"
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AX

DITCH LINING TABULATED QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		PAVED		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	TON	TON	C.Y.	S.Y.	S.Y.
STATE ROUTE 109																
363+00 TO 365+00	LT-SP	4	2													417.7
363+00 TO 368+50	RT-SP	V	0													488.9
365+00 TO 366+00	LT-SP									4	1				104.4	44.4
366+00 TO 367+00	LT	V	0													88.9
368+50 TO 370+50	RT-SP	V	0													177.8
372+00	PO-LT					4	1						8			
387+12 TO 387+50	RT-SP									V	0				43.9	16.9
387+50 TO 388+00	RT-SP	V	0													44.4
388+00 TO 388+70	RT-SP									V	0				80.9	31.1
388+70 TO 392+50	RT-SP									2	1				351.5	168.9
394+00 TO 398+50	RT-SP									2	1				416.2	200.0
397+35.48	RCBBO-LT					10	varies						169			10.1
397+82.95	RCBBI-RT					10	varies						387			45.3
398+00 TO 399+50	RT-SP					4	2.5						435			66.7
398+00 TO 400+00	LT-SP					4	1						334.6			88.9
400+75	PO-LT					2	1						28.3			9.3
399+50 TO 401+50	RT-SP									V	0				231.1	88.9
400+00 TO 401+50	LT-SP									V	0				173.3	66.7
401+50 TO 402+50	RT	V	0													88.9
401+50 TO 403+00	LT-SP	V	0													133.3
404+00 TO 408+50	RT	V	0													400.0
404+50 TO 409+50	LT	V	0													444.4
409+50 TO 409+75	LT-SP	V	0													22.2
409+50 TO 413+00	RT	V	0													311.1
413+00 TO 414+34	RT-SP									V	0				154.8	59.6
420+59 TO 420+73	PO-LT					4	2						66.4			8.9
420+73 TO 420+82	PO-LT	4	2													89.8
SR 109 SUBTOTAL												0.0	1428.3	0.0	1556.1	3613.0

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

* LOCATION LEGEND

LT.	LEFT
RT.	RIGHT
M	MEDIAN DITCH
MO	MEDIAN OUTLET
PO	PIPE OUTLET
PI	PIPE INLET
RCBCO	BOX CULVERT OUTLET
RCBCI	BOX CULVERT INLET
RCBBO	BOX BRIDGE OUTLET
RCBBI	BOX BRIDGE INLET
SP	SPECIAL DITCH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DITCH DETAIL SHEET

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	2P
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AY

DITCH LINING TABULATED QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		CLASS C		PAVED		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	MACHINED RIP-RAP CLASS C 709-05.09	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	B	D	TON	TON	TON	C.Y.	S.Y.	S.Y.
SIDEROADS																			
LAKE SPRINGS ROAD																			
71+00 TO 73+50	LT-SP											V	0					288.9	111.1
73+50 TO 76+00	LT-SP											2	1					257.9	111.1
76+00 TO 78+00	LT-SP	2	1.5																376.2
71+00 TO 72+50	RT-SP	V	0																133.3
72+50 TO 73+00	RT-SP											V	0					57.8	22.2
73+00 TO 73+65	RT-SP	V	0																57.8
FRED WHITE BLVD. / LAKE SPRINGS ROAD																			
80+50 TO 81+00	RT	V	0																
81+00	PO-LT	4	2														5.0		10.7
82+50 TO 83+00	LT-SP	V	0																
82+50 TO 83+50	RT	V	0																
83+00 TO 83+50	LT	V	0																
S. OLD DETOUR ROAD / LAKE SPRINGS ROAD																			
27+00 TO 30+50	RT											V	0					404.4	155.6
30+50 TO 32+00	RT	V	0																
35+25.00	RCBBO-LT					10	varies								122.0				12.0
35+25.00	RCBBI-RT					10	varies								196.8				13.1
PVT. DRIVE LT. LAKE SPRINGS ROAD																			
2+47	RCBBI-RT					10	varies								122.0				12.0
2+47	RCBBO-RT							10	varies							439.1			20.7
EUBANKS ROAD LT																			
26+50 TO 29+00	LT	V	0																222.1
26+50 TO 27+50	RT-SP	V	0																88.9
EUBANKS ROAD RT																			
30+50 TO 33+50	LT-SP	V	0																266.7
30+50 TO 31+00	RT-SP											V						57.8	22.2
31+00 TO 33+50	RT-SP	V	0																222.2
FRONTAGE ROAD																			
10+00 TO 17+17	RT-SP	V	0																637.3
10+50 TO 12+50	LT-SP	V	0																177.8
17+20	RCBBI-LT					10	varies								169.0				10.1
16+85 TO 18+50	LT-SP	4	1																262.6
17+20	RCBBO-RT					10	varies								282.3				33.1
18+50 TO 21+00	LT-SP											V						288.9	111.1
21+00 TO 23+00	LT-SP	V	0									V							177.8
SIDEROAD SUBTOTAL														0.0	892.1	439.1	5.0	951.3	3112.2

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

* LOCATION LEGEND

LT.	LEFT
RT.	RIGHT
M	MEDIAN DITCH
MO	MEDIAN OUTLET
PO	PIPE OUTLET
PI	PIPE INLET
RCBCO	BOX CULVERT OUTLET
RCBCI	BOX CULVERT INLET
RCBBO	BOX BRIDGE OUTLET
RCBBI	BOX BRIDGE INLET
SP	SPECIAL DITCH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DITCH DETAIL SHEET

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	20
CONST.	2014	STP/HPP/NH-I-65-3(113)	2AZ

DITCH LINING TABULATED QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		CLASS C		PAVED		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	MACHINED RIP-RAP CLASS C 709-05.09	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	B	D	TON	TON	TON	C.Y.	S.Y.	S.Y.
RAMPS																			
RAMP A																			
106+50 TO 115+00	RT-SP											V						982.2	377.8
RAMP B																			
151+00 TO 154+00	RT-SP											V						346.7	133.3
RAMP C																			
200+00 TO 204+90	RT-SP	2	1																495.4
204+90 TO 206+00	RT-SP											2	1					101.7	48.9
207+50 TO 210+00	RT											V						288.9	111.1
210+00 TO 211+50	RT-SP											V						173.3	66.7
211+50 TO 214+50	RT-SP	V	0																266.7
RAMP E																			
300+00 TO 302+00	RT-SP	6	3																643.9
302+00 TO 304+50	RT-SP											6	2					518	111.1
304+00 TO 307+50	LT-SP											2	1					323.7	155.6
304+50 TO 306+50	RT-SP											6	3					555	88.9
306+73.30	RCBBI-RT											6	1					32.9	10.7
307+00 TO 313+50	RT-SP											2	1					601.2	288.9
307+52.70	RCBBO-LT					6	3								210.4				23.1
321+43.88	PO-RT									3	0.5				6.5				
RAMP H																			
450+00 TO 451+50	RT-SP	4	?																
451+75	PO-RT			2	1									41.7					18.4
453+50 TO 468+00	LT-SP											V						1675.6	644.4
458+17 TO 460+00	RT-SP	V	0																185.8
460+00 TO 466+50	RT-SP											V						751.1	288.9
466+59.34	RCBBO-RT							8	2							145.2			13.8
468+00 TO 470+50	LT-SP											2	1					231.2	111.1
470+50 TO 473+00	LT-SP	V	1																222.2
473+00 TO 474+00	LT-SP	2	1																136.9
474+50 TO 479+00	RT-SP	4	1																718.0
476+98.59	PO-RT			2	1									8.9					4.9
RAMP I																			
499+77.00	RCBBI-LT					10	varies								565.9				26.2
499+77.00	RCBBO-RT					10	varies								235.0				23.1
500+50 TO 502+00	RT-SP	4	1																238.7
503+00 TO 503+41	RT	V	0																36.4
RAMP J																			
555+68 TO 559+43	RT-SP	2	1																635.2
556+14.12	PO-RT			4	2									23.9					6.2
559+86.39	PO-LT			2	1									8.1					4.4
RAMP K																			
601+25 TO 600+79	RT-SP	2	1																63.0
					RAMP SUBTOTAL									82.6	1017.8	145.2		6581.5	6199.8
					I-65 SUBTOTAL									13.0	1216.7		4.0	4618.9	7542.8
					SR 109 SUBTOTAL									0.0	1428.3			1556.1	3613.0
					SIDEROAD SUBTOTAL									0.0	892.1	439.1	5.0	951.3	3112.2
					RAMP SUBTOTAL									82.6	1017.8	145.2		6581.5	6199.8
					ROBERTSON SR 109 / I-65 TOTAL									96.0	4555.0	585.0	9.0	13708.0	20468.0

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NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

* LOCATION LEGEND

LT.	LEFT
RT.	RIGHT
M	MEDIAN DITCH
MO	MEDIAN OUTLET
PO	PIPE OUTLET
PI	PIPE INLET
RCBCO	BOX CULVERT OUTLET
RCBCI	BOX CULVERT INLET
RCBBO	BOX BRIDGE OUTLET
RCBBI	BOX BRIDGE INLET
SP	SPECIAL DITCH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DITCH DETAIL SHEET

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2BA

DITCH LINING TABULATED QUANTITIES - SUMNER CO SR 109 - 83001-3143-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		TURF REINF. MAT CLASS III		PAVED		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	TON	TON	C.Y.	S.Y.	S.Y.
STATE ROUTE 109																
308+00 TO 314+50	RT-SP							V	0						751.1	288.9
308+50 TO 313+00	LT	V	0													400.0
310+50	PO-LT															
312+00	PO-LT															
313+00 TO 319+00	LT-SP	V	0													533.3
314+50 TO 317+50	RT-SP	V	0													266.7
317+50 TO 319+00	RT-SP	V	0													133.3
319+00 TO 320+00	RT	V	0													88.9
319+00 TO 320+50	LT-SP	V	0													133.3
320+00 TO 321+50	RT-SP	V	0													133.3
320+50 TO 326+50	LT	V	0													533.3
321+85	PO-RT															
323+00 TO 328+00	MEDIAN									V				18.4		222.2
323+50 TO 326+50	RT	V	0													266.7
326+50 TO 328+00	RT-SP							V	0						173.3	66.7
326+50 TO 329+50	LT-SP							V	0						346.7	133.3
328+00 TO 332+57	RT-SP	V	0													406.2
329+50 TO 335+50	LT-SP	V	0													533.3
332+57 TO 334+00	RT-SP	V	0													127.1
334+00 TO 337+50	RT	V	0													311.1
337+50 TO 342+50	RT-SP							V	0						577.8	222.2
341+50.88 TO 343+50	LT-SP					5							446.2			
342+50 TO 349+00	RT-SP							4	1						956.6	288.9
343+50	PO-RT			2	1							4.1				2.2
348+58.44	RCBCO-LT															
348+71.12	RCBCI-RT															
348+50 TO 349+50	LT-SP	4	2													294.3
349+00 TO 351+00	RT-SP	4	3													794.1
350+50 TO 355+50	LT-SP	4	2													1044.3
351+00	PO-LT			2	1							10.1				5.6
351+00 TO 356+50	RT-SP	4	2													1148.7
355+50 TO 358+00	LT-SP							4	1						261.1	111.1
356+50 TO 359+50	RT-SP							4	2						493.2	133.3
358+00 TO 361+50	LT-SP	4	1													521.0
359+50 TO 362+00	RT-SP							4	2						411	111.1
STATE ROUTE 109 SUBTOTAL												14.2	446.2	18.4	3970.8	9254.6

DITCH LINING TABULATED QUANTITIES - SUMNER CO SR 109 - 83001-3143-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		TURF REINF. MAT CLASS III		PAVED		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	TON	TON	C.Y.	S.Y.	S.Y.
SIDEROADS																
OLD STATE ROUTE 109 TIE																
86+00 TO 88+00	LT-SP	V	0													177.8
88+00 TO 90+75	LT-SP							V							317.8	122.2
86+00 TO 89+00	RT-SP	V	0													266.7
89+00 TO 90+75	RT-SP							2	1						218.7	77.8
TGT ROAD TIE																
10+60 TO 11+00	LT-SP							4	1						50.2	17.8
11+00 TO 14+50	LT-SP	4	1													594.4
10+60 TO 11+50	RT-SP							V	0						104	40.0
11+50 TO 14+00	RT-SP	V	0													222.2
SIDEROAD SUBTOTAL												0.0	0.0	0.0	690.7	1518.9
SR 109 SUBTOTAL												14.2	446.2	18.4	3970.8	9254.6
SIDEROAD SUBTOTAL												0.0	0.0	0.0	690.7	1518.9
SUMNER CO SR 109 TOTAL												15.0	447.0	19.0	4662.0	10774.0

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

* LOCATION LEGEND

LT.	LEFT
RT.	RIGHT
M	MEDIAN DITCH
MO	MEDIAN OUTLET
PO	PIPE OUTLET
PI	PIPE INLET
RCBCO	BOX CULVERT OUTLET
RCBCI	BOX CULVERT INLET
RCBBO	BOX BRIDGE OUTLET
RCBBI	BOX BRIDGE INLET
SP	SPECIAL DITCH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DITCH DETAIL SHEET

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	2BB

DITCH LINING TABULATED QUANTITIES - SR 41 ROBERTSON CO. - 74096-3201-14

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	TON	TON	S.Y.	S.Y.
SIDEROADS													
STATE ROUTE 41 LT													
1122+50 TO 1128+00	LT-SP							V	0			635.5	244.5
1128+00 TO 1130+00	LT-SP	V	0										177.8
1130+00 TO 1131+25	LT-SP							V	0			144.4	55.6
STATE ROUTE 41 RT													
1133+10 TO 1138+00	LT							V	0			566.2	217.8
1147+50 TO 1148+60	LT							V	0			127.1	48.9
					SR 41 LT SUBTOTAL					0.0	0.0	779.9	477.9
					SR 41 RT SUBTOTAL					0.0	0.0	693.3	266.7
					SR 41 TOTAL					0.0	0.0	1473.2	744.6

DITCH LINING TABULATED QUANTITIES - SR 41 SUMNER CO. - 83008-3229-14

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	TON	TON	S.Y.	S.Y.
SIDEROADS													
STATE ROUTE 41 LT													
1122+50 TO 1126+00	RT-SP	V	0										311.1
1126+00 TO 1126+50	RT-SP							V	0			57.8	22.2
1126+50 TO 1129+00	RT-SP	V	0										266.7
1130+50 TO 1131+15	RT-SP	V	0										66.7
STATE ROUTE 41 RT													
					SR 41 LT SUBTOTAL					0.0	0.0	57.8	666.7
					SR 41 RT SUBTOTAL					0.0	0.0	0.0	0.0
					SR 41 TOTAL					0.0	0.0	57.8	666.7

DITCH LINING TABULATED QUANTITIES - SIMPSON CO., KY. I-65 - 74003-3168-44

STATION TO STATION	* LOCATION	SOD		CLASS A-1		CLASS B		PAVED		TURF REINF. MAT CLASS III		MACHINED RIP-RAP CLASS A-1 709-05.06	MACHINED RIP-RAP CLASS B 709-05.08	CEMENT CONCRETE DITCH PAVING 703-01	TURF REINF. MAT CLASS III 805-01.03	SODDING 803-01
		B	D	B	D	B	D	B	D	B	D	TON	TON	C.Y.	S.Y.	S.Y.
I-65																
1881+27.68 TO 1882+40	RT-SP									V					129.8	49.9
1882+40 TO 1883+50	RT	V	0													97.8
1883+00 TO 1884+50	LT	V	0													133.3
1883+50 TO 1884+00	RT-SP									V					57.8	22.2
1884+50 TO 1886+00	LT	V	0													133.3
1886+00 TO 1888+50	LT	V	0													222.2
1891+29.38	PO-LT			5	1.5							2.4				
1895+50 TO 1898+00	LT	V	0													222.2
					SIMPSON CO. KY. I-65 TOTAL							2.4	0.0	0.0	187.6	881.0

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

* LOCATION LEGEND

LT.	LEFT
RT.	RIGHT
M	MEDIAN DITCH
MO	MEDIAN OUTLET
PO	PIPE OUTLET
PI	PIPE INLET
RCBCO	BOX CULVERT OUTLET
RCBCI	BOX CULVERT INLET
RCBBO	BOX BRIDGE OUTLET
RCBBI	BOX BRIDGE INLET
SP	SPECIAL DITCH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DITCH DETAIL SHEET

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3
CONST.	2014	STP/HPP/NH-I-65-3(113)	3

UTILITY OWNERS

UTILITY	OWNER	PHONE NO. (OFFICE)	CONTACT	PHONE NO. (CELL)	EMAIL ADDRESS	ADDRESS	CITY	STATE	ZIP CODE
POWER	CUMBERLAND ELECTRIC MEMBERSHIP CORP.	(931)645-2481 X1117	MARK COOK		mcook@cemc.org	1940 MADISON STREET	CLARKSVILLE	TN	37043
	CITY OF HENDERSONVILLE, OPERATIONS, P & W	(615)590-4633	JERRY HORTON			101 MAPLE DRIVE NORTH	HENDERSONVILLE	TN	37075
	GALLATIN ELECTRIC	(615)452-5152	MIKE TAYLOR		mtaylor@gallatinelectric.com	135 JONES STREET	GALLATIN	TN	37066
	TENNESSEE VALLEY AUTHORITY	(423)751-7673	RANDAL PETTY	(423)827-8530	rlpetty@tva.gov	1101 MARKET STREET MR3F-C	CHATTANOOGA	TN	37402
TELEPHONE	AT&T (FORMERLY BELLSOUTH)	(615)214-7318	KIM BEAN		kb1078@att.com	333 COMMERCE STREET, RM 23C-142	NASHVILLE	TN	37201
WATER	WHITEHOUSE UTILITY DISTRICT	(615)672-4110 X232	PAT HARRELL		pharrell@whud.org	3303 HIGHWAY 31 W	WHITEHOUSE	TN	37188
	CITY OF PORTLAND (WATER)	(615)325-6776	THOMAS McCORMICK		tmccormick@cityofportlandtn.gov	100 SOUTH RUSSELL	PORTLAND	TN	37148
	SIMPSON COUNTY UTILITY DISTRICT	(270)842-0052 X514	JOHN M. DIX		johnd@warrenwater.com	523 HIGHWAY US-31 W BY-PASS	BOWLING GREEN	KY	42101
GAS	CITY OF PORTLAND (GAS)	(615)325-6776	THOMAS McCORMICK		tmccormick@cityofportlandtn.gov	100 SOUTH RUSSELL	PORTLAND	TN	37148
	MIDWESTERN GAS TRANSMISSION COMPANY	(815)467-4633 (ext 130)	STEVE DAILEY		Steven.Dailey@oneok.com	23823 AMOCO ROAD	CHANNAHON	IL	60410
	MIDWESTERN GAS TRANSMISSION COMPANY	(815)467-4633 (ext 106)	AMIR GADID	(972)742-1893	Amir.Gadid@oneok.com	23823 AMOCO ROAD	CHANNAHON	IL	60410
	MIDWESTERN GAS TRANSMISSION COMPANY	(615)325-2001	KENNY CLINE		Kenny.cline@oneok.com	220 TGT ROAD	PORTLAND	TN	37148
	TEXAS GAS TRANSMISSION	(225)292-6644 X1003	JEFF PENDLETON		jeff.pendleton@bwpmlp.com	11115 INDUSTRIPLEX BLVD. STE # 800	BATON ROUGE	LA	70809
	TENNESSEE GAS PIPELINE CO.	(615)221-1527	JOHN HUTCHINGS	(615)714-1944	John.Hutchings@ELPaso.com	TWO BRENTWOOD COMMONS, 750 OLD HICKORY BLVD, SUITE 190	BRENTWOOD	TN	37027
SEWER	ADENUS (SUSTAINABLE WASTEWATER SOLUTIONS)	(615)220-7176	MARSHALL FALL	(615)428-0923	marshall.fall@adenus.com	849 AVIATION PARKWAY	SMYRNA	TN	37167
	CITY OF PORTLAND (SEWER)	(615)325-6776	THOMAS McCORMICK		tmccormick@cityofportlandtn.gov	100 SOUTH RUSSELL	PORTLAND	TN	37148
CABLE	COMCAST (XFINITY)	(615)244-7462 X-1115141	LARRY K. WINBURN	(615)394-7728	larry_winburn@cable.comcast.com	2501 McGAVOCK PIKE	NASHVILLE	TN	37214
FIBER OPTICS	AT&T FIBER OPTIC CABLE	(770)335-8255	SCOTT LOGEMAN		sl1213@att.com	360 GEES MILL BUSINESS PKWY	CONYERS	GA	30013
	LEVEL III COMMUNICATIONS	(720)888-7280	TIM BOYKIN		tim.boykin@level3.com level3.networkrelocations@level3.com (required)	1025 ELDORADO BOULEVARD, 43C-420	BROOMFIELD	CO	80021

UNOFFICIAL SET
NOT FOR BIDDING

RIGHT - OF - WAY NOTES

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(7) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP NOTES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3A
CONST.	2014	STP/HPP/NH-I-65-3(113)	3A

REV. 04-02-14: REMOVED PROP. R.O.W. AND TEMP. CONST. ESMT. FOR EPSC DEVICES ON TRACT 50. UPDATED R.O.W. BEGIN PROJ. STATION.

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

INSET
TRACT NO. 62

MATCH LINE THIS SHEET

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726

STA. 479+33.29 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456

STA. 114+44.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177

STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3884
E 1801142.4702

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

MATCH LINE STA. 362+85.00 SEE SHEET NO. 3D

SEE SHEET NO. 3B

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

B.O.P. TO STA. 1850+00
SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3B
CONST.	2014	STP/HPP/NH-I-65-3(113)	3B

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED. UPDATED PROP. R.O.W. FOR TRACTS 40, 41, 42, 44, & 45. ADDED PERM. DRAIN. ESMT. FOR TRACT 44.

REV. 01-27-14: UPDATED PROP. R.O.W FOR TRACT 40 RIGHT.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT FOR TRACTS 32 & 37.

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837320.0374
E 1799340.2885

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924

STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.48 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2183

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT. STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491

STA. 83+75.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776

STA. 251+83.57 RAMP D C.L.=
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483

STA. 36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201

PORTLAND CITY LIMITS
STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

STA. 600+00.00 RAMP K C.L.=
STA. 558+29.96 RAMP J
N 839095.0387
E 1800538.6643

STA. 650+00.00 C D ROAD =
49.35' LT STA. 1900+00.00 I-65
N 841503.8166
E 1801257.5539

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718

STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

INSET TRACT NO. 44
TO SHOW PERM. DRAIN ESMT.

MATCH LINE STA. 1850+00.00 SEE SHEET NO. 3A

MATCH LINE THIS SHEET

MATCH LINE FRED WHITE BLVD. THIS SHEET

MATCH LINE FRED WHITE BLVD. THIS SHEET

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
ARCHITECTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.

83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP
STA. 1850+00 TO E.O.P.
SCALE: 1"=200'

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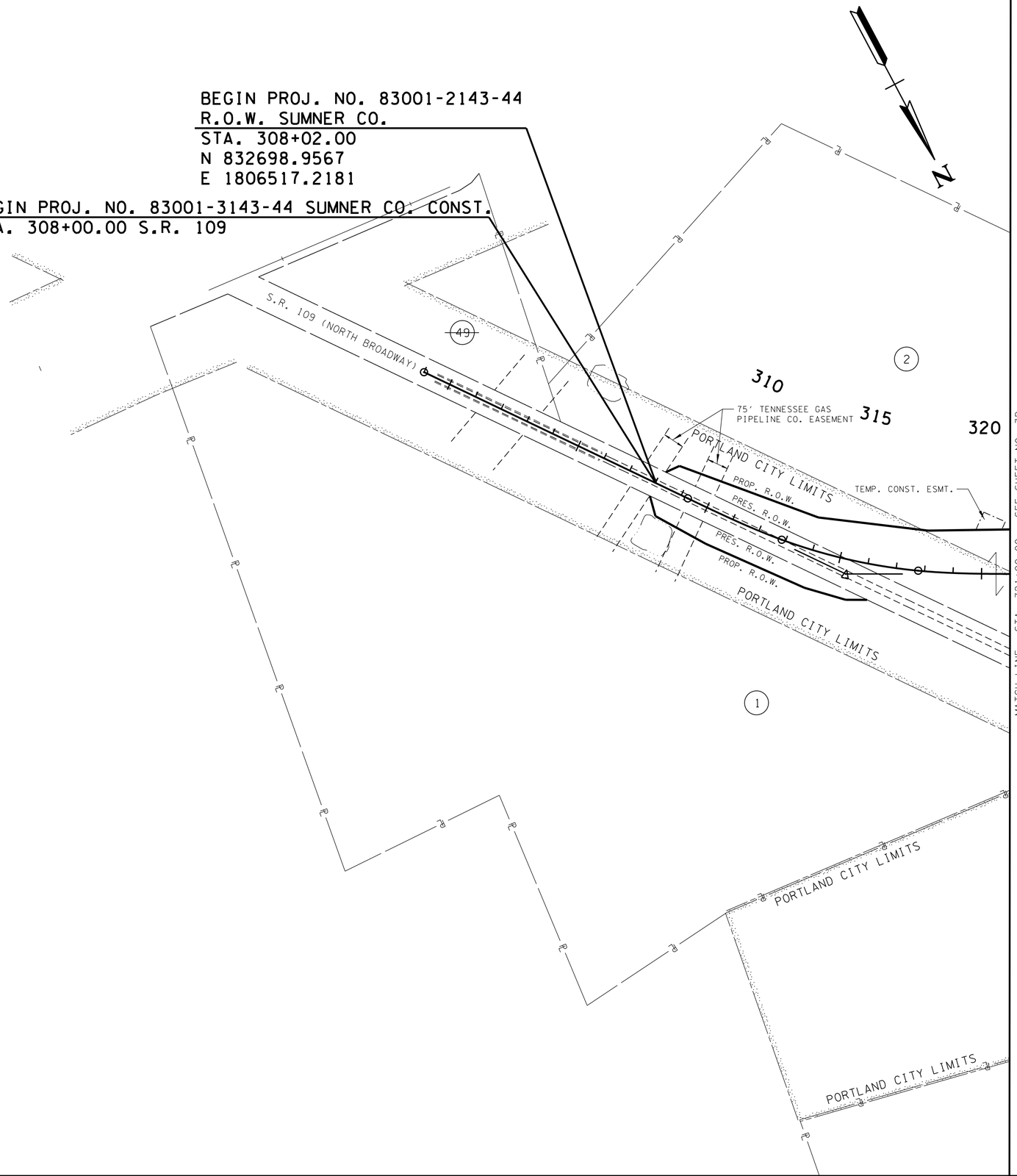
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3C
CONST.	2014	STP/HPP/NH-I-65-3(113)	3C

REV. 09-29-14: ADDED TEMP. CONST. ESMT. FOR TRACT 2.

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109



SEE SHEET NO. 3D
MATCH LINE STA. 321+00.00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

S.R. 109
B.O.P. TO STA. 321+00
SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3D
CONST.	2014	STP/HPP/NH-I-65-3(113)	3D

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

NOTE #1
20' PUBLIC DRAINAGE AND UTILITY EASEMENT
NOTE #2
10' PUBLIC DRAINAGE AND UTILITY EASEMENT

LIMIT OF CONST. 1122+50.00

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 S.R. 109 TIE
N 833632.8824
E 1805434.3376

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767

MATCH LINE STA. 321+00.00 SEE SHEET NO. 3C

MATCH LINE STA. 362+85.00 SEE SHEET NO. 3A

PORTLAND CITY LIMITS
PRES. R.O.W.
TGT ROAD
S.R. 41 (U.S. 31W)
NOTE #1
NOTE #2
CURTAIN DRAIN EASEMENT
TEMP. CONST. ESMT. FOR REMOVAL OF IMPROVEMENTS
10' CONST. ESMT.
PROP. R.O.W.
MIDWESTERN GAS TRANSMISSION CO. EASEMENT
TEMP. CONST. ESMT. FOR EPSC DEVICES
POND
WTL-1
WTL-2
STR-2
STR-3
50' MIDWESTERN GAS TRANSMISSION CO. EASEMENT
20' P.D. & U.E.
10' P.D. & U.E.
SLOPE ESMT.
SUMNER COUNTY
S.R. 109 (NORTH BROADWAY)
TENNESSEE VALLEY AUTHORITY EASEMENT
100'

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
74003-3164-44 CONST.
STA. 362+36.28 S.R. 109

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581

LIMIT OF CONST. 1154+76.47

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

S.R. 109
STA. 321+00 TO STA. 362+85.00
SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3E
CONST.	2014	STP/HPP/NH-I-65-3(113)	3E

REV. 12-09-13: UPDATED PROP. R.O.W. TAKE FOR TRACTS 40, 41, 42, 44, & 45. ADDED PERM. DRAIN. ESMT. FOR TRACT 44.

REV. 01-27-14: UPDATED PROP. R.O.W TAKE FOR TRACT 40.

REV. 02-05-14: CHANGED PROPERTY OWNER NAME FOR TRACT 27 FROM "LYNNE S. MOSELY" TO "JOHN Z. WILKINSON & LUCAS T. WILKINSON".

REV. 04-02-14: REMOVED PROP. R.O.W. AND TEMP. CONST. ESMT. FOR EPSC DEVICES TAKE ON TRACT 50.

REV. 04-09-14: CHANGED OWNER NAME FROM "CHARLES HAYNES, TRUSTEE" TO "ELM TREE PARTNERS, LLC." FOR TRACT 6. ADDED PARCEL 42.02 TO TRACT 7.

REV. 07-10-14: CHANGED TOTAL AREA FROM 20.537 TO 11.88 ACRES AND AREA REMAINING FROM 20.228 TO 11.571 ACRES FOR TRACT 44. CHANGED OWNERS NAME FROM BC RACING GROUP, LLC. C/O CLIFF REED TO KENTUCKY DOWNS, LLC. FOR TRACT 51.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT AREAS FOR TRACTS 32 & 37.

REV. 09-29-14: ADDED CONST. EASEMENT FOR TRACT 2.

SUMNER COUNTY R.O.W. (83001-2143-44) ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
1	THURMAN NEAL GARRETT	16	46	126,134	143,127		89.000	89.000		1.022	1.022		87.978			2614	(1)
2	PATRICK L. VEJR AND PEGGY V. BISHOP	16	44	834	210	66.489	11.941	78.430	7.413	6.610	14.023	59.076	5.331			4064	(4)
~~3~~	~~PEGGY V. BISHOP AND PATRICK L. VEJR~~	~~16~~	~~45~~	~~520~~	~~577~~	~~311 S.F.~~	~~0.568~~	~~0.575~~				~~311 S.F.~~	~~0.568~~				
~~4~~	~~JERRY GROVES, ETUX PEGGY GROVES~~	~~16~~	~~31.04 / 31.06~~	~~360~~	~~527~~		~~3.407~~	~~3.407~~					~~3.407~~				
~~5~~	~~SUSAN ROGERS, ETVIR DEWAYNE ROGERS~~	~~16~~	~~31.01 / 31.05~~	~~1797~~	~~873~~		~~2.315~~	~~2.315~~					~~2.315~~				
6	ELM TREE PARTNERS, LLC.	16	31	3696	282	2.679	39.787	42.466	1.919	3.244	5.163	0.760	36.543			2867	(2)
7	REBECCA V. JOHNSON	16	42, 42.02	837	829	30.918	0.386	31.304	1.954	0.386	2.340	28.964				3351	(2)
9	LOU VERNE BOND	16	41	397	746	4.128		4.128	0.937		0.937	3.191					
~~10~~	~~DANNY STEVEN KEY~~	~~16~~	~~34.02~~	~~2169~~	~~580~~	~~1.000~~		~~1.000~~				~~1.000~~					
11	DANNY STEVEN KEY	16	34.01	2169	580	1.000		1.000	3194 S.F.		3194 S.F.	0.927					
~~13~~	~~KYLA MORALES~~	~~16~~	~~37.01~~	~~994~~	~~275~~	~~0.935~~		~~0.935~~				~~0.935~~					
~~49~~	~~JOSEPH KESSLER, JR.~~	~~16~~	~~70~~	~~1565~~	~~169~~	~~0.002~~		~~0.002~~				~~0.002~~					

(1) FOR WORKING ROOM
(2) FOR EROSION CONTROL
(4) FOR USE TO REMOVE WOOD BARN

ROBERTSON COUNTY (74003-2164-44) R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
27	JOHN Z. WILKINSON & LUCAS T. WILKINSON	26	12	1554	679	0.559	0.513	1.072	0.559	0.513	1.072						
28	JAMES H. CUMMINGS	26	11	204	235	60.039	11.332	71.371	9.293	11.332	20.625	50.746	0 S.F.			0.161 AC	(3)
29	SAMMY W. COOK, JERRY A. BURNETTE AND GAIL I. BURNETTE	26	10	1154	673		1.562	1.562		1.562	1.562						
30	L & W PROPERTIES GROUP C/O LARRY COLLINS	26	9	1113	447		4.170	4.170		0.195	0.195		3.975				
31	L & W PROPERTIES GROUP C/O LARRY COLLINS	26	1	1113	447		8.195	8.195		1.454	1.454		6.741				
32	JAMES C. ANDERSON, ETUX MARILYN K. ANDERSON	12	55	773	426	41.531	8.092	49.623	29.767	5.118	34.885	11.764	2.974	0.646 AC		1603	(3)
33	CHARLES H. KEEN, ETUX EVELYN KEEN	25	23	197	349		0.945	0.945		0.200	0.200		0.745				
34	CHERYLL EVERETT JAMES	12	51	285	779		2.014	2.014		3791 S.F.	3791 S.F.		1.927				
~~35~~	~~JOSEPH EARL HOPKINS~~	~~12~~	~~52~~	~~316~~	~~711~~		~~0.470~~	~~0.470~~					~~0.470~~				
~~36~~	~~JOSEPH EARL HOPKINS~~	~~12~~	~~53~~	~~224~~	~~456~~		~~1.104~~	~~1.104~~					~~1.104~~				
37	LOU HALL	12	54	523	892		0.825	0.825					0.825	0.251 AC			
38	GREG MARTIN	12	56	1069	912		1.177	1.177		497 S.F.	497 S.F.		1.166				
39	LLOYD SHORT, ETUX MARTHA SHORT	12	57	188	300	0.787		0.787	0.205		0.205	0.582					
40	L & W PROPERTIES GROUP	12	59.03	1113	447	4.078	2.070	6.148	1.419	1.123	2.542	2.659	0.947				
41	L & W PROPERTIES GROUP	12	44	1113	447		12.625	12.625		0.740	0.740		11.885				
42	III REAL ESTATE, LLC	12	59.02	1272	420	8.442		8.442	0.173		0.173	8.269					
43	JAMES H. CUMMINGS, ETUX JOYCE J. CUMMINGS	26	11	204	235	26.816		26.816	9.104		9.104	17.712					
44	THE INDUSTRIAL DEVELOPMENT BOARD CITY OF SPRINGFIELD	12	59	1041	232	11.880		11.880	0.309		0.309	11.571		1556			
45	THE INDUSTRIAL DEVELOPMENT BOARD CITY OF SPRINGFIELD	12	44.02	1382	560		9.446	9.446		0.150	0.150		9.296				
~~46~~	~~L & W PROPERTIES GROUP~~	~~12~~	~~44.03~~	~~1113~~	~~447~~		~~1.389~~	~~1.389~~					~~1.389~~				
~~47~~	~~THE INDUSTRIAL DEVELOPMENT BOARD CITY OF SPRINGFIELD~~	~~12~~	~~44.01~~	~~1185~~	~~386~~		~~12.811~~	~~12.811~~					~~12.811~~				
~~48~~	~~THE INDUSTRIAL DEVELOPMENT BOARD CITY OF SPRINGFIELD~~	~~12~~	~~59.01~~	~~1240~~	~~420~~	~~18.405~~		~~18.405~~				~~18.405~~					
~~50~~	~~JENNIFER MOODY~~	~~25~~	~~20~~	~~639~~	~~654~~	~~30.770~~		~~30.770~~				~~30.770~~					
51	KENTUCKY DOWNS, LLC.	12	50	356	512	10.591		10.591	0.535		0.535	10.056		3215			
~~52~~	~~CHARLES McHENRY, ETUX CLARE E. McHENRY~~	~~13~~	~~1~~	~~666~~	~~667~~	~~0.632~~		~~0.632~~				~~0.632~~					
62	PAUL M. GROVES, ETUX REBECCA EARLENE GROVES, C/O PAUL M. GROVES JR.	25	16	145	198	61.710		61.710	3791 S.F.		3791 S.F.	61.623					

(3) FOR WORKING ROOM

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

SUMNER & ROBERTSON CO'S I-65/SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	3F
CONST.	2014	STP/HPP/NH-I-65-3(113)	3F

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.

REV. 01-27-14: REMOVED THE DUPLICATE SUMNER COUNTY R.O.W. ACQUISITION TABLE AND REPLACED WITH THE ROBERTSON COUNTY R.O.W. ACQUISITION TABLE.

REV. 02-05-14: CHANGED PROPERTY OWNER NAME FOR TRACT 20 FROM "A. C. BRYANT" TO "L & W PROPERTIES GROUP".

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

REV. 07-10-14: CHANGED OWNERS NAME FROM BC RACING GROUP, LLC. C/O CLIFF REED TO KENTUCKY DOWNS, LLC. FOR TRACTS 51K & 54.

SUMNER COUNTY R.O.W. (83008-2229-14) ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
8	ROBERT E. FREEMAN, ETUX BEVERLY B. FREEMAN	16	33	544	279	4.079	59.285	63.364	3.339	3.904	7.243	0.740	55.381		3261	0.285 AC	(1)
12	SANDRA FREEDLE THOMERSON, VIVIAN FREEDLE HARRIS, GLENDA FREEDLE PIKE	16	34	201,237	386,259	1.043		1.043	0.507		0.507	0.536				0.536 AC	(3)
~~14~~	~~ROBERT ALLISON, ETUX PATTI ALLISON~~	~~16~~	~~37~~	~~1009~~	~~153~~	~~0.961~~		~~0.961~~				~~0.961~~					
15	GEARLDINE GROVES	16	36	311	213	0.298		0.298				0.298				636	(2)
16	DAVID A GRAVES , SR. AND DAVID A. GRAVES, JR.	16	35	3447	659	0.361		0.361				0.361				356	(2)
17	JERRY L. HAMMONDS, ETUX PATSY S. HAMMONDS	16	33.01	347	322		0.828	0.828					0.828		410	2222	(2)
~~56~~	~~JAMES H. CUMMINGS JR.~~	~~16~~	~~37.03~~	~~994~~	~~271~~	~~1.110~~		~~1.110~~				~~1.110~~					
~~57~~	~~JOE DAVID CUMMINGS~~	~~16~~	~~37.02~~	~~994~~	~~249~~	~~1.090~~		~~1.090~~				~~1.090~~					

(1) 4221 S.F. FOR EROSION CONTROL & 8194 S.F. FOR WORKING ROOM
(2) FOR WORKING ROOM
(3) TEMPORARY CONSTRUCTION EASEMENT FOR DEMOLITION OF THE EXISTING IMPROVEMENTS LASTING A DURATION OF 180 DAYS.

ROBERTSON COUNTY R.O.W. (74096-2201-14) ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
18	GARY T. FERGUSON, ETUX JANA FERGUSON	26	20	347	322	0.762		0.762				0.762				975	(3)
19	LINDA B. WATKINS, ETAL CLYDE E. WATKINS	26	19	572	611	0.719		0.719				0.719				739	(3)
20	L & W PROPERTIES GROUP	26	18	1515	354	0.625		0.625	0.128		0.128	0.497				17	(3)
21	L & W PROPERTIES GROUP	26	17	912	586	0.273	1.058	1.331	0.273	0.345	0.618		0.713		152	1258	(3)
22	MICHAEL E. LOGAN, ETUX LISA D. LOGAN	26	16	611	468	0.996		0.996				0.996			4	1597	(3)
23	L & W PROPERTIES GROUP	26	13.01	1113	447	1.446		1.446				1.446				1162	(3)
~~24~~	~~CEMETERY~~	~~26~~	~~14~~			~~400 S.F.~~		~~400 S.F.~~				~~400 S.F.~~					
25	L & W PROPERTIES GROUP	26	13	1113	447	1.723		1.723				1.723			707	2898	(3)
26	KTR NASHVILLE, LLC	26	15	1185	546		21.735	21.735		2560 S.F.	2560 S.F.		21.676				
~~55~~	~~JAMES H. CUMMINGS, ETUX JOYCE J. CUMMINGS~~	~~26~~	~~23 & 24~~	~~250,196~~	~~33,147~~	~~2.000~~		~~2.000~~				~~2.000~~					
58	ROBERT J. HUFFINES	26	22	1173	832	0.410		0.410				0.410				153	(3)
59	JAMES H. CUMMINGS JR., ETUX TRESA L. CUMMINGS	26	21	309	803	0.720		0.720				0.720				1065	(3)
60	L & W PROPERTIES GROUP C/O LARRY COLLINS	26	6	1113	447	3.550		3.550				3.550			141	764	(3)
61	L & W PROPERTIES GROUP C/O LARRY COLLINS	26	5	1113	447	8.500		8.500				8.500		0.310 AC	760	3035	(3)

(3) FOR WORKING ROOM

KENTUCKY R.O.W. (74003-2165-44) ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
51K	KENTUCKY DOWNS, LLC.	12	50	356	512	0.909		0.909	0.129		0.129	0.780					
52K	CHARLES McHENRY, ETUX CLARE E. McHENRY	13	1	666	667	4.368		4.368	0.234		0.234	4.134				3261	(5)
53	RODRIGO LEDESMA, JOSE LEDESMA, AND RODOLFO LEDESMA	38	36	243	268	18.615		18.615	0.577		0.577	18.038				0.102 AC	(4)
54	KENTUCKY DOWNS, LLC.	38	45	209	123		262.440	262.440		0.230	0.230		262.210				

(4) FOR DRAINING, FILLING, & STABILIZING POND
(5) FOR USE TO REMOVE WOOD SHED

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

SUMNER & ROBERTSON CO'S
SR-41 (US-31W) & KENTUCKY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	4
CONST.	2014	STP/HPP/NH-I-65-3(113)	4

REV. 04-02-14: ADJUSTED DITCHES AND TOES, SHORTENED BOX CULVERT EXTENSION TO REMOVE PROP. R.O.W. AND TEMP. CONST. ESMT. TAKE ON TRACT 50.

74003-3164-44

BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1809+83.54
260.00'

1810

1813+39.15
260.00'

S 9° 22' 28" W
339.48'

P/T

P/T

S 14° 26' 40" W
355.61'

PRES. R.O.W. (C.A.) & FENCE

WATER OK

INV-726.16

CITY OF PORTLAND

ASP.

SHADY PARK ROAD

WATER OK

WOVEN WIRE

INV-725.10

TREES / BRUSH

NO CITY GAS

TREES / BRUSH

ASS

INV-721.43

I-65

N 14° 26' 40" E

TOP-728.41
INV-724.06

15" RCP

42" RCP

BOTTOM BEAM

BOTTOM BEAM

BOTTOM BEAM

BOTTOM BEAM

BOTTOM BEAM

BOTTOM BEAM

GRASS

GRASS

I-65 SOUTHBOUND (ASP.)

I-65 NORTHBOUND (ASP.)

CP-S20

CP-S38

4"CPP
INV-733.03

4"CPP
INV-729.66

CONC. DITCH

INV-720.78

4"CPP
INV-725.64

4"CPP
INV-723.80
XCP * S20
MAG SPICE
N 833163.7828
E 1799227.0871
EL. 726.26

3'X10'CONC

4"CPP
INV-720.29

GRASS

GRASS

GRASS

WOVEN WIRE

PRES. R.O.W. (C.A.) & FENCE

WOVENWIRE

F (UG)

20' AT&T F.O.C. ESMT.

N 14° 25' 53" E - 583.93'

PORTLAND CITY LIMITS

N 14° 22' 25" E
745.79'

F (UG)

20' AT&T F.O.C. ESMT.

NO. 74-0221

1811+84.18
150.00'

1813+54.85
150.00'

POND

PRES. R.O.W.

HIGHLAND ROAD

ASP.

PRES. R.O.W.

S 60° 44' 35" E
422.34'

N 60° 44' 35" W
465.97'

WOOD SHED

CULTIVATED FIELD

CULTIVATED FIELD

M.C. GROVES, JR.
ETUX ELIZABETH D. GROVES

WAYNE BANDY

WOOD BARN

4" W

4" W

4" W

4" W

PRES. R.O.W.

CITY OF PORTLAND

N 60° 44' 35" W
291.57'

S 60° 44' 35" E
241.64'

PRES. R.O.W.

CITY OF PORTLAND

S 54° 47' 29" E
230.39'

1820

PER THE CITY OF PORTLAND THEY DO NOT KNOW THE EXACT LOCATION OF THIS LINE AND COULD NOT FIELD LOCATE (SHOWN AT APPROX. LOCATION PER CITY OF PORTLAND GIS MAP)

1815
STRATTON FAMILY PROPERTIES, LP

S 55° 59' 1" W
64.93'

TREES / BRUSH

1816+78.35
233.50'

GRASS

1814+08.56
190.00'

LIGHTS
NO. 74-0219
NO. 74-0227
LIGHTS

20' U.E.

PRES. R.O.W. (C.A.) & FENCE

WOVENWIRE

S 14° 21' 55" W
318.39'

CONC. DITCH

STAKE

1817+26.95
190.44'

50

JENNIFER MOODY

1817+72.94
150.28'

S 55° 46' 24" W
61.24'

S 14° 27' 36" W
1026.94'

ALL TRUCKS MUST STOP FOR WEIGHING AND INSPECTION BYPASS RAMP WHEN FULL

TREES

XCP * S38
MAG SPIKE
N 833502.6770
E 1799180.4940
EL. 721.77

GRASS

CP-S38

SEE SHEET NO. 5

MATCH LINE STA. 1820+00.00

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S20	833163.7828	1799227.0871	726.26	1814+17.13	65.45' (RT)
S38	833502.6770	1799180.4940	721.77	1817+33.69	64.21' (LT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
B.O.P. TO STA. 1820+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	4A
CONST.	2014	STP/HPP/NH-I-65-3(113)	4A

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1810 1815 1820

N

HIGHLAND ROAD

I-65 SOUTHBOUND

I-65
N 14° 26' 40" E

I-65 NORTHBOUND

TIE TO EXISTING GUARDRAIL

7 #39

18" RCP

GT. EL. 726.15
OUT.EL. 723.15

OUT.EL. 722.80

SOD

STA. 1814+00.00
BEGIN LANE SHIFTS AND PAVEMENT TAPER

CLASS "A"
B=2'
D=1'
(2' LENGTH)

STA. 1813+70.00
BEGIN OVERLAY
LT. & RT.

BEGIN MEDIAN BARRIER
STA. 1814+06.40

CONC. DITCH

280' LANE TAPER

STA. 1814+00.00
BEGIN LANE SHIFT

STA. 1816+80.00 (50' LT)
END LANE SHIFT (70:1)
BEGIN LANE TAPER

STA. 1816+34.24 (26' LT)
END LANE SHIFT (70:1)

300' LANE TAPER

STA. 1819+80.00 (62' LT)
END LANE TAPER

TRM (CL III)

ASP.

MEDIAN BARRIER

12'
24'
12'
14'
14'
12'
24'
12'

STA. 1816+88.40 (26' RT)
END LANE SHIFT (70:1)

STA. 1817+57.70 (62' RT)
END LANE TAPER

PROP. FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL. (SEE STD. DWG. S-SSMB-8)

STA. 1817+57.70 (50' RT)
END LANE SHIFT (70:1)

SOD

MATCH LINE STA. 1820+00.00 SEE SHEET NO. 5A

PORTLAND CITY LIMITS

HIGHLAND ROAD

POND

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
B.O.P. TO STA.1820+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	4B
CONST.	2014	STP/HPP/NH-I-65-3(113)	4B

74003-3164-44

BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65

I-65 STA. 1813+11.77 = HIGHLAND ROAD STA. 10+50.00

OH WIRE
STA. 1813+34.60
LOW WIRE EL. 773.92'
TEMP. 52 DEG.
4 POWER

STA. 1813+85.00
#39-S C.B.
80' OF 18" RCP
SKEW 79°19'04" RT.
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-39S,
D-PE-18(A&B)
D.A. = 0.35 AC.
Q50 = 1.56 CFS
Q100 = 1.66 CFS
W.S. ELEV. (50) = 726.33(C.B.)
W.S. ELEV. (100) = 726.33(C.B.)

SOUTHBOUND LANES

VPI 1814+00.00 EL. 727.88
VPI 1814+50.00 EL. 727.09
VPI 1815+00.00 EL. 726.31
VPI 1815+50.00 EL. 725.64
VPI 1816+00.00 EL. 724.94
VPI 1816+50.00 EL. 724.21
VPI 1817+00.00 EL. 723.41
VPI 1817+50.00 EL. 722.63
VPI 1818+00.00 EL. 721.84
VPI 1818+50.00 EL. 721.05
VPI 1819+00.00 EL. 720.26
VPI 1819+50.00 EL. 719.48
VPI 1820+00.00 EL. 718.70

XCP-S20
STA. 1814+17.13, 65.45'(RT)
N 833163.7828
E 1799227.0871
ELEV 726.26
MAG SPIKE

XCP-S38
STA. 1817+33.69, -64.21'(LT)
N 833502.6770
E 1799180.4940
ELEV 721.77
MAG SPIKE

EXISTING GROUND
℄ C.L.

OVERLAY EXISTING SOUTHBOUND LANES
OVERLAY EXISTING NORTHBOUND LANES

EXIST. C.B.
STA. 1811+49.99
0.66' (LT)
TOP 728.41
INVERT 724.06

15"RCP

STA 1811+85.45
EXISTING 42RCP
SKEW 74° 56' 13" RT
FLOWS RIGHT
INLET 721.43
OUTLET 720.78

-1.58% -1.56% -1.52% -1.38% -1.40% -1.44% -1.60% -1.50% -1.60% -1.66% -1.56% -1.48% -1.42%
-1.34% -1.40% -1.46% -1.34% -1.56% -1.58% -1.58% -1.56% -1.56%
-0.96%
-0.80% V DT. RT.
-2.84% V DT. RT.
-1.62% -1.64% -1.66% V DT. LT. -1.66% -1.64% -1.60%
-4.00% -4.00% -2.00% V DT. RT. -2.00%

VPI 1814+00.00 EL. 727.43
VPI 1814+50.00 EL. 726.95
VPI 1815+00.00 EL. 726.19
VPI 1815+50.00 EL. 725.50
VPI 1816+00.00 EL. 724.80
VPI 1816+50.00 EL. 724.08
VPI 1817+00.00 EL. 723.41
VPI 1817+50.00 EL. 722.66
VPI 1818+00.00 EL. 721.86
VPI 1818+50.00 EL. 721.03
VPI 1819+00.00 EL. 720.25
VPI 1819+50.00 EL. 719.51
VPI 1820+00.00 EL. 718.80

NORTHBOUND LANES

EXC. (UNCLASSIFIED)
135,391 C.Y.

COMMON 135,289 C.Y. INCL. 64,499 C.Y. MAINLINE COMMON (SHR. 20%)
33,445 C.Y. SIDEROAD COMMON (SHR. 20%)
29,687 C.Y. TOPSOIL FROM CUT AREAS
7,658 C.Y. UNDERCUTTING

ROCK 0 C.Y. (SWELL 15%)

EXC.
EMB.

EMB. 788,527 C.Y. INCL. 403,727 C.Y. FROM MAINLINE (INCLUDES 3,494 C.Y. GSR)
384,800 C.Y. FROM SIDE ROAD (INCLUDES 10,090 C.Y. GSR)

135,289 C.Y. EXC. (COM.)
-29,687 C.Y. TOPSOIL FROM EXC. AREAS
- 0 C.Y. TOPSOIL FROM EMB. AREAS
- 7,658 C.Y. FROM UNDERCUTTING
97,944 C.Y. EXC. (COM.) AVAILABLE FOR BALANCE

$\frac{\text{EXC. (COM.)}}{1.20}$ + [EXC. (ROCK) x 1.15] VS. EMB.

$\frac{97,944}{1.20}$ + [0 C.Y. x 1.15] VS. 788,527 C.Y.

81,620 VS. 788,527 C.Y.

706,907 C.Y. BORROW (INCLUDES 13,584 C.Y. SELECT EMB.)
706,907 C.Y. BORROW - 13,584 C.Y. SELECT EMB. = 693,323 C.Y. (BORROW - UNCLASSIFIED)
693,323 C.Y. BORROW X 1.20 = 831,988 C.Y. (TOTAL BORROW - UNCLASSIFIED REQ'D.)
13,584 C.Y. (SELECT EMB. REQ'D.)

1807+00 1808+00 1809+00 1810+00 1811+00 1812+00 1813+00 1814+00 1815+00 1816+00 1817+00 1818+00 1819+00 1820+00

770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

B.O.P. TO STA.1820+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S21	834362.0912	1799534.1851	708.04	1826+54.16	63.93' (RT)
S37	834682.9900	1799485.4650	706.90	1829+52.77	63.29' (LT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	5
CONST.	2014	STP/HPP/NH-I-65-3(113)	5

REV. 01-27-14: ADDED NOTE "DO NOT DISTURB BILLBOARD" ON TRACT. 28 STA. 1832+00 +/- RT.

REV. 04-02-14: ADJUSTED DITCHES AND TOES, SHORTENED BOX CULVERT EXTENSION TO REMOVE PROP. R.O.W. AND TEMP. CONST. ESMT. TAKE ON TRACT 50. UPDATED R.O.W. BEGIN PROJ. STATION.

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

1820
CITY OF PORTLAND
4" W
STA. 724+41.18 "CD ROAD= 62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456
(SEE SHEETS 34-39 FOR PROFILE)
POT 724+41.18
TREES / BRUSH
1827+99.87
149.72'
PRES. R.O.W. (C.A.) & FENCE
WOVEN WIRE
TREES / BRUSH
S 14° 27' 36" W
1026.94'
ALL TRUCKS MUST STOP FOR INSPECTION
CONC. DITCH
GRASS
ASP.
I-65 SOUTHBOUND (ASP.)
EXIST. C.B. TO BE REMOVED.
TOP-712.81
BOT-710.84
N 14° 26' 40" E
I-65
GRASS
EXIST. 15" RCP TO BE PLUGGED
ASP.
I-65 NORTHBOUND (ASP.)
CP-S21 XCP = S21
MAG SPIKE
N 834362.0912
E 1799534.1851
EL. 708.04
4"CPP INV-704.80
4"CPP INV-707.17
4"CPP INV-710.82
INV-709.70
N 14° 22' 25" E
745.79'
N 14° 29' 14" E
849.23'
PRES. R.O.W. (C.A.) & FENCE
P (UG)
PORTLAND CITY LIMITS
20' AT&T F.O.C. ESMT.
1821+00.64
149.08'
CULTIVATED FIELD
TREES / BRUSH
M.C. GROVES, JR.
ETUX ELIZABETH D. GROVES
NO. 74-0319
SEE SHEET NO. 4
MATCH LINE STA. 1820+00.00

PER THE CITY OF PORTLAND THEY DO NOT KNOW THE EXACT LOCATION OF THIS LINE AND COULD NOT FIELD LOCATE(SHOWN AT APPROX. LOCATION PER CITY OF PORTLAND GIS MAP)

1825
50
JENNIFER MOODY

Ⓟ S 14° 26' 40" W - 75.79'
Ⓠ 1831+05.79 - 150.00'
Ⓡ S 14° 26' 40" W - 84.21'
Ⓢ N 80° 35' 55" W - 22.45'
Ⓣ N 68° 55' 14" W - 65.43'
Ⓤ S 68° 55' 14" E - 30.46'
Ⓥ N 19° 25' 08" W - 182.52'
Ⓦ S 14° 26' 40" W - 1248.95'

Ⓐ 1829+49.87 - 149.71'
Ⓑ N 14° 40' 38" E - 70.13'
Ⓒ N 14° 26' 40" E - 25.28'
Ⓓ N 14° 26' 40" E - 82.58'
Ⓔ 1831+28.66 - 150.00'
Ⓕ N 14° 26' 40" E - 16.06'
Ⓖ N 14° 27' 13" E - 49.00'
Ⓗ N 75° 33' 20" W - 110.00'
Ⓘ N 14° 26' 40" E - 26.08'
Ⓙ S 14° 26' 40" W - 58.45'
Ⓚ N 42° 11' 19" W - 72.05'
Ⓛ N 39° 31' 17" W - 22.34'
Ⓜ S 14° 26' 40" W - 41.55'
Ⓝ N 39° 31' 17" W - 47.52'
Ⓞ N 80° 08' 53" W - 31.87'
Ⓧ N 1° 21' 55" E - 101.64'
Ⓨ N 75° 33' 20" W - 86.99'

WOODS
N 48° 16' 49" W 152.39'
SUMMERS BRANCH STR-1
43
JAMES H. CUMMINGS
ETUX JOYCE J. CUMMINGS
1831+05.85 300.00'
N 14° 26' 40" E 75.85'
1830
1830+30.00 300.00'
N 14° 26' 40" E 84.15'
1831+90.00 300.00'
EXIST. PERMANMENT DRAINAGE EASEMENT
PROP. 3 @ 15'x 10' RCBB EXTENSION (22.8 L.F.)
S 80° 35' 55" E 62.88'
WOODS
1831+03.82 172.36'
1831+57.40 176.77'
N 75° 33' 20" W 150.00'
N 75° 33' 20" W 120.56'
PROP. R.O.W.
BEGIN PROJ. C.A. FENCE
1830+18.14 - 149.46'
S 14° 22' 29" W 230.13'
EIP
1831+90.00 179.44'
N 9° 44' 55" E-517.30'
N 75° 33' 20" W 29.44'
CLOSE DOWN-689.48
1831+90.00 150.00'
N 9° 44' 55" E-32.71'
N 9° 44' 55" E TRUCK INSPECTION AND WEIGHING STATION 1 MILE
53.76'
INV-689.71
720
XCP = S37
MAG SPIKE
N 834682.9900
E 1799485.4650
EL. 706.90
CP-S37
S 13° 29' 22" W
1830+30.00 150.00'
EXIST. C.B. TO BE REMOVED.
TOP-702.39
INV-700.50
EXIST. 3 @ 15'x 10' RCBB (185.2 L.F.)
3 @ 15'x 10' RCBB (TO REMAIN)
PROP. 3 @ 15'x 10' RCBB EXTENSION (3.6 L.F.)
3° DIVERGENCE
RAMP A
4"CPP INV-703.39
INV-696.84
3'X10'CONC. C
INV-690.89
EW
4"CPP INV-705.00
4"CPP INV-705.85
1832+19.00 150.01'
WOVEN WIRE
N 14° 27' 13" E 381.37'
1831+70.00 150.00'
1830+20.00 150.00'
1830+46.08 150.00'
DO NOT DISTURB BILLBOARD
NO. 74-0159
NO. 71-0135
S 51° 6' 42" E 120.83'
1831+53.94 150.00'
TEMP. CONST. ESMT.
EXIST. PERMANMENT DRAINAGE EASEMENT
1830+20.00 260.00'
1831+20.00 260.00'
1832+19.00 237.00'
JAMES H. CUMMINGS
28
STA. 100+00.00 RAMP A C.L.= 50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396
(SEE SHEETS 40-41 FOR PROFILE)
SEE SHEET NO. 6
MATCH LINE STA. 1833+00.00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA. 1820+00 TO STA. 1833+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	5A
CONST.	2014	STP/HPP/NH-I-65-3(113)	5A

REV. 01-27-14: ADDED NOTE "DO NOT DISTURB BILLBOARD" ON TRACT. 28 STA. 1832+00 +/- RT.

REV. 04-02-14: ADJUSTED DITCHES AND TOES, SHORTENED BOX CULVERT EXTENSION TO REMOVE PROP. R.O.W. AND TEMP. CONST. ESMT. TAKE ON TRACT 50. UPDATED R.O.W. BEGIN PROJ. STATION.

STP/HPP/NH-I-65-3(113)

BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

1820 1825 1830

SECTION A-A
695 690 685 680
EXISTING/ PROPOSED GROUND LINE
3.5 EMBEDDED CLASS "C" RIP-RAP
-40 -20 0 20 40

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHING THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

STREAM IMPACTS WILL BE MITIGATED USING THE IN-LIEU FEE PROGRAM

NOTE:
APPLY GRADED SOLID ROCK ON 2:1 SIDE SLOPES FROM LT. AND RT. STA. 1830+60 TO STA. 1831+40.

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456
(SEE SHEETS 34-39 FOR PROFILE)

END TRENCH DRAIN
53.6' LT. STA. 1829+97.50
T.G. = 707.63
F.L. = 704.63

FOR TRENCH DRAIN INFO & DETAILS SEE CROSS SECTIONS AND STD. DWG. D-TD-1

BEGIN TRENCH DRAIN
52.8' LT. STA. 1828+97.50
T.G. = 707.31
F.L. = 706.80

STA. 1828+60.00
END PAVEMENT TAPER

300' PAVEMENT TAPER

STA. 1825+60.00
BEGIN PAVEMENT TAPER

SEE DETAIL #1

BEGIN GUARDRAIL
STA. 1822+00
TYPE 13

BEGIN GUARDRAIL
STA. 1825+00
TYPE 38

BEGIN GUARDRAIL
STA. 1830+28
TYPE 13

TRM (CL III)

CLASS "B"

SOD B=4' D=1'

PROP. 3 @ 15'x 10' RCBB EXTENSION (22.8 L.F.)

30' LENGTH CLASS "C" RIP-RAP IN STREAM AND ON BANK

OUT.EL. 689.20

18" RCP OUT.EL. 697.00 STUB INTO BOX

INV-689.71

720
S 13° 29' 22" W

RAMP H
CD ROAD
18"RCP
ASP.

MEDIAN BARRIER

I-65 SOUTHBOUND

N 14° 26' 40" E

I-65

I-65 NORTHBOUND

MEDIAN BARRIER

18" RCP OUT.EL. 697.00 STUB INTO BOX

EXIST. 3 @ 15' x 10' RCBB (185.2 L.F.)

3 @ 15' x 10' RCBB (TO REMAIN)

3° DIVERGENCE

STA. 1820+57.70 (26' RT)
BEGIN STRIPING TRANSITION

STA. 1823+57.70 (14' RT)
END STRIPING TRANSITION

BEGIN GUARDRAIL
STA. 1826+20
TYPE 38

FOR TRENCH DRAIN INFO & DETAILS SEE CROSS SECTIONS AND STD. DWG. D-TD-1

OUT.EL. 701.40

CLASS "B" B=4' D=2' (1' UP BACKSLOPE 5' WIDE)

OUT.EL. 700.00

EXIST. CONC. DT. TO REMAIN

CLASS "B" B=2' D=1' (18' LENGTH)

OUT.EL. 702.00

TRM (CL III) B=2' D=1' (29' LENGTH)

INV-690.89
IN. EL. 691.00

END GUARDRAIL
STA. 1831+70
TYPE 13

EXIST. DITCH

TRM (CL III) B=4' D=1'

TIE TO EXIST. DITCH

PROP. 3 @ 15'x 10' RCBB EXTENSION (3.6 L.F.)

35' LENGTH CLASS "C" RIP-RAP ON BANK

DO NOT DISTURB BILLBOARD

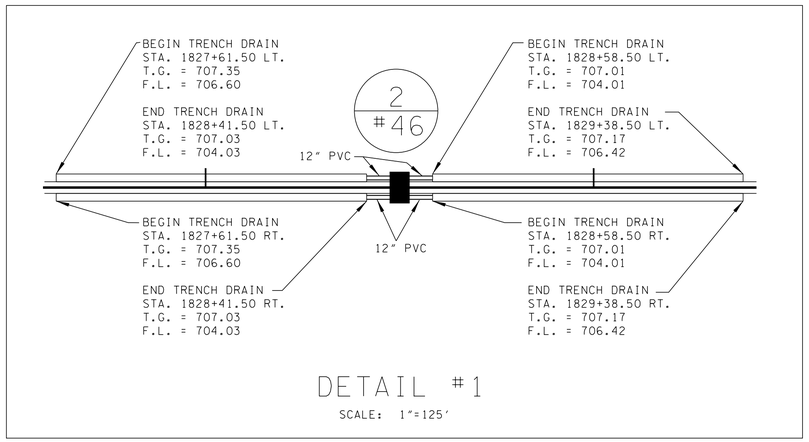
SUMMERS BRANCH STR-1

PORTLAND CITY LIMITS

MATCH LINE STA. 1820+00.00 SEE SHEET NO. 4A

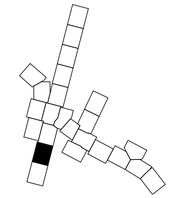
MATCH LINE STA. 1833+00.00 SEE SHEET NO. 6A

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396
(SEE SHEETS 40-41 FOR PROFILE)



DETAIL #1
SCALE: 1"=125'

I-65 STORM DRAINAGE STRUCTURES				
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
1	710.45			704.50
2	707.00	703.90	703.90	700.50
3	707.20			702.50
131	707.70	704.00		703.00
4	709.10			704.30
5	709.20	706.20	703.90	703.00
6	710.50			707.50



SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA. 1820+00 TO STA. 1833+00

SCALE: 1"=50'

UNOFFICIAL SET
NOT FOR BIDDING

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	5B
CONST.	2014	STP/HPP/NH-I-65-3(113)	5B

STA. 1828+50.00
#46-SE C.B.
94' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-46SE, D-PE-4
D.A. = 0.56 AC.
Q50 = 5.60 CFS
Q100 = 6.11 CFS
W.S. ELEV. (50) = 707.39(C.B.)
W.S. ELEV. (100) = 707.42(C.B.)

STA. 1829+50.00
#31-SD C.B.
88' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD, D-PE-4
D.A. = 0.24 AC.
Q50 = 3.03 CFS
Q100 = 3.34 CFS
W.S. ELEV. (50) = 707.47(C.B.)
W.S. ELEV. (100) = 707.48(C.B.)

STA. 1830+00.00
#42-S C.B. @ 53.80' LT.
76' OF 18" RCP STUBBED INTO BOX @ STA. 1830+76.69
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-42S
D.A. = 0.22 AC.
Q50 = 1.67 CFS
Q100 = 1.78 CFS
W.S. ELEV. (50) = 707.79(C.B.)
W.S. ELEV. (100) = 707.79(C.B.)

STA. 1831+50.00
#42-S C.B. @ 55.10' LT.
27' OF 18" RCP STUBBED INTO BOX @ STA. 1831+23.30
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-42S
D.A. = 0.39 AC.
Q50 = 2.91 CFS
Q100 = 3.10 CFS
W.S. ELEV. (50) = 709.34(C.B.)
W.S. ELEV. (100) = 709.40(C.B.)

STA. 1831+50.00
#31-SD C.B.
52' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-31SD
D.A. = 1.21 AC.
Q50 = 9.04 CFS
Q100 = 9.64 CFS
W.S. ELEV. (50) = 709.40(C.B.)
W.S. ELEV. (100) = 709.42(C.B.)

STA. 1832+50.00
#42-S C.B. @ 55.90' LT.
98' OF 18" RCP
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-42S
D.A. = 0.31 AC.
Q50 = 2.32 CFS
Q100 = 2.47 CFS
W.S. ELEV. (50) = 710.66(C.B.)
W.S. ELEV. (100) = 710.66(C.B.)

VPI 1820+00.00 EL. 718.70
VPI 1820+50.00 EL. 717.92
VPI 1821+00.00 EL. 717.16
VPI 1821+50.00 EL. 716.42
VPI 1822+00.00 EL. 715.69
VPI 1822+50.00 EL. 714.95
VPI 1823+00.00 EL. 714.22
VPI 1823+50.00 EL. 713.48
VPI 1824+00.00 EL. 712.72
VPI 1824+50.00 EL. 711.97
VPI 1825+00.00 EL. 711.24
VPI 1825+50.00 EL. 710.51
VPI 1826+00.00 EL. 709.80
VPI 1826+50.00 EL. 709.13
VPI 1827+00.00 EL. 708.61
VPI 1827+50.00 EL. 708.22
VPI 1828+00.00 EL. 707.99
VPI 1828+50.00 EL. 707.88
VPI 1829+00.00 EL. 707.90
VPI 1829+50.00 EL. 708.01
VPI 1830+00.00 EL. 708.27
VPI 1830+50.00 EL. 708.66
VPI 1831+00.00 EL. 709.25
VPI 1831+50.00 EL. 709.85
VPI 1832+00.00 EL. 710.47
VPI 1832+50.00 EL. 711.21
VPI 1833+00.00 EL. 711.96

SOUTHBOUND LANES

-1.56% -1.44% -1.52% -1.44% -1.48% -1.52% -1.46% -1.60% -1.48% -1.64% -1.46% -1.38% -1.48% -1.38% -1.52% -1.46% -1.50% -1.58% -1.46% -1.56% -1.46% -1.52% -1.42% -1.38% -1.34% -1.22% -1.04% -0.78% -0.46% -0.22% 0.04% 0.22% 0.52% 0.78% 1.18% 1.24% 1.06% 1.24% 1.48% 1.14% 1.32% 1.50%

-2.00% V DT. RT. -2.00% -2.00% V DT. LT. -2.00% -2.00% V DT. LT. -2.00% -2.00% -1.00% V DT. LT. -3.00% -1.00% -2.00% V DT. LT. -2.00% -1.00% -1.04% -0.90% -0.64% -0.36% 0.10% 0.30% 0.52% 1.00% 1.16% 1.20% 1.24% -1.30% 2.00% 4' F.B. DT. RT. 4.00% 8.94% 4' F.B. DT. RT. 7.89% -4.00% -11.86% 10.92% 9.36% 2.00% 1.50% 4' F.B. DT. LT. 1.00%

VPI 1820+00.00 EL. 718.80
VPI 1820+50.00 EL. 718.08
VPI 1821+00.00 EL. 717.36
VPI 1821+50.00 EL. 716.60
VPI 1822+00.00 EL. 715.80
VPI 1822+50.00 EL. 714.98
VPI 1823+00.00 EL. 714.29
VPI 1823+50.00 EL. 713.60
VPI 1824+00.00 EL. 712.87
VPI 1824+50.00 EL. 712.08
VPI 1825+00.00 EL. 711.30
VPI 1825+50.00 EL. 710.54
VPI 1826+00.00 EL. 709.85
VPI 1826+50.00 EL. 709.24
VPI 1827+00.00 EL. 708.72
VPI 1827+50.00 EL. 708.27
VPI 1828+00.00 EL. 707.95
VPI 1828+50.00 EL. 707.77
VPI 1829+00.00 EL. 707.82
VPI 1829+50.00 EL. 707.97
VPI 1830+00.00 EL. 708.23
VPI 1830+50.00 EL. 708.73
VPI 1831+00.00 EL. 709.31
VPI 1831+50.00 EL. 709.93
VPI 1832+00.00 EL. 710.46
VPI 1832+50.00 EL. 711.08
VPI 1833+00.00 EL. 711.69

NORTHBOUND LANES

EXIST. C.B.
STA. 1820+00.07
0.69' (LT)
TOP 712.81
INVERT 710.84

STA. 1825+00.00
#31-SD C.B.
104' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD, D-PE-18(A&B)
D.A. = 1.29 AC.
Q50 = 9.62 CFS
Q100 = 10.28 CFS
W.S. ELEV. (50) = 710.74(C.B.)
W.S. ELEV. (100) = 710.75(C.B.)

XCP-S21
STA. 1826+54.16, 63.93'(RT)
N 834362.0912
E 1799534.1851
ELEV 708.04
MAG SPIKE

FOR PROPOSED TRENCH DRAIN INFO & DETAILS SEE CROSS SECTIONS AND STD. DWG. D-TD-1

PROP. TRENCH DRAIN

EXIST. C.B.
STA. 1828+79.82
0.76' (LT)
TOP 702.39
INVERT 700.50

PROP. 18" RCP STUB INTO BOX

XCP-S37
STA. 1829+52.77, -63.29'(LT)
N 834682.9900
E 1799485.4650
ELEV 706.90
MAG SPIKE

PROP. TRENCH DRAIN

EXISTING GROUND @ C.L.

PROP. 18" RCP

PROP. 18" RCP -23.08% STUB INTO BOX

EXTREME HIGH WATER LEVEL (EL. 700.42) (DEBRIS IN TREES)

NORMAL WATER LEVEL (0.4' DEEP) EL. 691.29

STA 1831+00.00
EXISTING 3 @ 15'X10' BOX CULVERT
SKEW 90°00'00" LT
FLOWS LEFT
INLET 690.89
OUTLET 689.71

STATION 1831+00	
3 @ 15'X10', 90°SKEW RCBB TO BE EXTENDED BOTH INLET AND OUTLET (TO BE BUILD USING STANDARD FOR 3 @ 16'X10' RCBB)	
DRAINAGE AREA	9.15 SQ. MI.
DESIGN DISCHARGE (100 YR)	3360 CFS
100 YR BACKWATER	0.83 FT AT EL 699.66
100 YR VELOCITY	18.34 FPS
500 YR DISCHARGE	4500 CFS AT EL 701.89
INLET INVERT ELEVATION	691.00
OUTLET INVERT ELEVATION	689.20
APPROACH OVERTOPPING ELEVATION	707.88
STANDARD DRAWING NUMBERS	STD-17-103, STD-17-10
CLASS "A" CONCRETE	157.7 C.Y.
STEEL BAR REINFORCING	30067 LB.
FOUNDATION FILL MATERIAL	682 C.Y.

1820+00 1821+00 1822+00 1823+00 1824+00 1825+00 1826+00 1827+00 1828+00 1829+00 1830+00 1831+00 1832+00 1833+00

755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675 670 665 660

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1820+00 TO STA.1833+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	6
CONST.	2014	STP/HPP/NH-I-65-3(113)	6

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 7

MATCH LINE - RAMP E
STA. 306+54.27

43
JAMES H. CUMMINGS
ETUX JOYCE J. CUMMINGS

JAMES C. ANDERSON, ETUX
MARILYN K. ANDERSON
32

SC 471+66.74
N 44° 53' 02" W
719.30'
PROP. R.O.W. & C.A. FENCE

472+25.00
75.00'

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 48-50 FOR PROFILE)

ST 479+35.34

CS 476+95.34

PASTURE

1835

N 16° 39' 35" W
288.34'

475

475+50.00
85.00'

PROP. R.O.W. & C.A. FENCE

N 9° 44' 55" E
517.30'

CITY OF PORTLAND

20' U.E.

PRES. R.O.W. (C.A.) & FENCE

WOVEN WIRE

CONC. DITCH

CONC. DITCH

INV-706.10

PRE PASS FOLLOW
IN CAB SIGNALS

S 13° 29' 22" W

S 13° 29' 22" W

GRASS

SPEED
LIMIT
70

1840

PER THE CITY OF PORTLAND THEY DO NOT KNOW THE EXACT LOCATION OF THIS LINE AND COULD NOT FIELD LOCATE(SHOWN AT APPROX. LOCATION PER CITY OF PORTLAND GIS MAP)

POT 710+00.98

XCP = S36
MAG SPIKE
N 835797.3860
E 1799771.6670
EL. 722.51

710

N 14° 26' 40" E
1248.95'

INV-714.85

CP-S36

PASTURE

D 5.0

D 5.2

D 5.5

D 5.0

D 8.4

D 11.2

D 9.2

N 73° 6' 45" W
928.34'

1845

305

CULTIVATED
FIELD

POTENTIAL SINKHOLE LOCATION
1844+42.37
230.00'
OLD REST STOP SEWER (ABANDONED)
SCARIFY, ADD TOPSOIL & SEED
NO. ID VISIBLE

1844+38.95
150.00'

TOP-716.40
INV-711.91
INV-711.67

N 14°26'40"E
843.73'

8" SA

WWC-1

CONC

WWC-2

INV-715.21

CP-S14

24"RCP

N 73° 6' 12" W
80.07'

INV-715.79
WWC-4

VENT

705

GRASS

IRON PIN W/ CAP
N 836216.1791
E 1799771.2917
EL. 720.21

EXIST. 15" RCP
TO BE PLUGGED

15" RCP

715

EXIST. C.B. TO
BE REMOVED.

TOP-709.40
INV-706.70

I-65 SOUTHBOUND (ASP.)

EXIST. 15" RCP
TO BE PLUGGED

15" RCP

N 14° 26' 40" E

I-65

GRASS

TOP-720.43
INV-718.14

EXIST. C.B. TO
BE REMOVED.

I-65 NORTHBOUND (ASP.)

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 5

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 8

CP-S22
XCP = S22
MAG SPIKE
N 835542.8011
E 1799839.4235
EL. 719.13

3° DIVERGENCE N 17° 26' 40" E

3'X6'CONC

4"CPP
INV-708.85

4"CPP
INV-712.39

4"CPP
INV-716.29

4"CPP
INV-719.42

4"CPP
INV-722.35

4"CPP
INV-724.59

CONC. DITCH

REST AREA
WELCOME CENTER
1 MILE

TREES / BRUSH

RAMP A

GRASS

N 14° 27' 13" E
381.27'

PRES. R.O.W. (C.A.) & FENCE

ATT CABLE

N 14° 27' 41" E
902.28'

GAS LOCATOR BOX

N 14° 25' 46" W
671.45'

PRES. R.O.W. (C.A.) & FENCE

ATT CABLE

F (UG)

PORTLAND CITY LIMITS

20' AT&T F.O.C. ESMT.

1836+00.27
150.07'

BEGIN PROP. C.A. FENCE
1836+00.27 - 150.07'

TS 104+76.66

105

PROP. R.O.W. & C.A. FENCE
N 22° 47' 06" E
387.48'

1844+22.75
150.31'

NO. 74-0132

JAMES H.
CUMMINGS
28

CULTIVATED
FIELD

D 4.8

SC 107+41.66

D 5.6

50' TEXAS GAS TRANSMISSION EASEMENT

1839+83.65
206.28'

N 33° 42' 06" E
231.88'

110

1842+02.56
282.75'

N 15° 39' 17" E
120.49'

CS 109+90.57

CULTIVATED
FIELD

1843+23.02
285.30'

N 46° 32' 15" E
379.30'

PROP. R.O.W. & C.A. FENCE

ST 112+55.57

D 5.5

RAMP A
N 38° 00' 03" E

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 19

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S22	835542.8011	1799839.4235	719.13	1838+73.69	65.01' (RT)
S36	835797.3860	1799771.6670	722.51	1841+03.33	64.11' (LT)
S14	836216.1791	1799771.2917	720.21	1845+08.79	168.94' (LT)

SEE SHEET NO. 2AS OR 2AT
FOR RAMP CURVE DATA

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA.1833+00 TO STA.1846+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	6A
CONST.	2014	STP/HPP/NH-I-65-3(113)	6A

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 7A

MATCH LINE - RAMP E
STA. 306+54.27

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 48-50 FOR PROFILE)

1835

475

STA. 474+50.00 (16' LT.)
BEGIN PAVEMENT TAPER

CLASS "B"
B=4'
D=1'
(15' LENGTH)

OUT.EL. 705.50

1840

STA. 472+50.00
END PAVEMENT TAPER

RAMP H

CONC. 400' TAPER

SOD
B=4'
D=1'

END CONC. BEGIN ASP.
STA. 476+06.60

STA. 476+50.00 (12' LT.)
END PAVEMENT TAPER

CLASS "A"
B=2'
D=1'

OUT.EL. 703.20

END GUARDRAIL
STA. 477+50
TYPE 38

18"RCP

12' ASP.

CONC. 200' TAPER

STA. 712+40.98
END PAVEMENT TAPER

IN. EL. 709.70

SOD
B=2'
D=1'

OUT.EL. 713.50

710

STA. 710+00.98
BEGIN PAVEMENT TAPER

BEGIN BARRIER WALL
STA. 1840+00.00
LT. 62'

CLASS "A"
B=2'
D=1'

OUT.EL. 717.45

24"RCP

VENT

705

BEGIN GUARDRAIL
STA. 305+50
TYPE 38

TRM (CL III)
B=6'
D=3'

TRM (CL III)
B=6'
D=2'

TRM (CL III)
B=6'
D=3'

305

1845

RAMP E CONC.

RELOCATED
WWC-2 & WWC-4

S 13° 29' 22" W

715

CD ROAD

I-65 SOUTHBOUND

MEDIAN BARRIER

BARRIER WALL

N 14° 26' 40" E

I-65

I-65 NORTHBOUND

3° DIVERGENCE N 17° 26' 40" E

STA. 1840+00.00 (26' LT)
BEGIN (70:1) STRIPING TRANSITION

PROP. FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL. (SEE STD. DWG. S-SSMB-8)

END ASP. BEGIN CONC.
STA. 106+15.37

PORTLAND CITY LIMITS

105

GAS LOCATOR BOX

50' TEXAS GAS TRANSMISSION EASEMENT

OUT.EL. 717.70

CLASS "A"
B=2'
D=1'
(5' LENGTH)

110

IN. EL. 718.50

N 38° 00' 03" E

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 19A

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 5A

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 8A

I-65 STORM DRAINAGE STRUCTURES			
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(OUT)
8	715.65		703.95
9	721.00		714.15
10	723.65		718.45
11	723.45	718.10	717.80

SEE SHEET NO. 2AS OR 2AT
FOR RAMP CURVE DATA

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NOVEMBER 6
1979
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1833+00 TO STA.1846+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	6B
CONST.	2014	STP/HPP/NH-I-65-3(113)	6B

SOUTHBOUND LANES

XCP-S22
STA. 1838+73.69, 65.01'(RT)
N 835542.8011
E 1799839.4235
ELEV 719.13
MAG SPIKE

XCP-S36
STA. 1841+03.33, -64.11'(LT)
N 835797.3860
E 1799771.6670
ELEV 722.51
MAG SPIKE

#31 SD

EXISTING GROUND @ C.L.

EXIST. C.B.
STA. 1835+00.03
0.95' (LT)
TOP 709.40
INVERT 706.70

EXIST. C.B.
STA. 1840+95.28
1.26' (LT)
TOP 720.43
INVERT 718.14

STA. 1841+63
10" GAS

STA. 1841+50.00
#31-SD C.B.
56' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-31SD,
D.A. = 0.78 AC.
Q50 = 6.14 CFS
Q100 = 6.60 CFS
W.S. ELEV. (50) = 723.90(C.B.)
W.S. ELEV. (100) = 723.90(C.B.)

XCP-S14
STA. 1845+08.79, -168.94'(LT)
N 836216.1791
E 1799771.2917
ELEV 720.21
IRON PIN W/ CAP

NORTHBOUND LANES

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107396
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 1833+00 TO STA. 1846+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	7
CONST.	2014	STP/HPP/NH-I-65-3(113)	7

PAUL M. GROVES,
ETUX REBECCA EARLENE GROVES,
C/O PAUL M. GROVES JR
62

JAMES C. ANDERSON,
ETUX MARILYN K.
ANDERSON
32

JAMES H. CUMMINGS
ETUX JOYCE J. CUMMINGS
43

N 72° 26' 8" W
319.50'

N 13° 33' 52" E
970.69'

N 73° 23' 45" W
976.73'

S 12° 54' 20" W
397.01'

PT 30+72.94

PROP. R.O.W.

S 31° 34" W
114.16'

30+50.00
48.00'

29+50.00
38.00'

31+53.43
42.91'

S 15° 27' 16" E

S 17° 38' 17" E
107.13'

S 17° 38' 17" E
132.55'

POT 33+43.78

463+70.29
183.19'

N 13° 33' 52" E
110.06'

N 73° 23' 45" W
68.98'

FRONTAGE ROAD

31+98.04
15.55'

461+50.00
100.00'

S 12° 59' 41" W

S 17° 38' 17" E
60.61'

464+15.00
195.00'
PROP. R.O.W.

PROP. C.A. FENCE

N 75° 45' 32" E
95.68'

464+38.50
104.00'

463+42.00
110.00'

464+96.00
108.50'

N 32° 33' 32" W
PROP. R.O.W. &
C.A. FENCE

PT 465+45.50

465

WWC-2

N 44° 53' 02" W
719.30'

S 44° 09' 18" E

TS 469+26.74

PROP. R.O.W. &
C.A. FENCE

470

N 73° 6' 45" W
928.34'

310

D-3

D 4.4

D-4

D 5.2

D-5

10' TEXAS GAS TRANSMISSION EASEMENT

POTENTIAL SINKHOLE LOCATION

WWC-3 ENDS AT CULTIVATED FIELD

WWC-3

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 6

MATCH LINE - RAMP E
STA. 306+54.27

MATCH LINE - RAMP E
STA. 312+82.16

MATCH LINE - RAMP H
STA. 461+34.86
SEE SHEET NO. 21

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

RAMPS E & H

SCALE: 1"=50'

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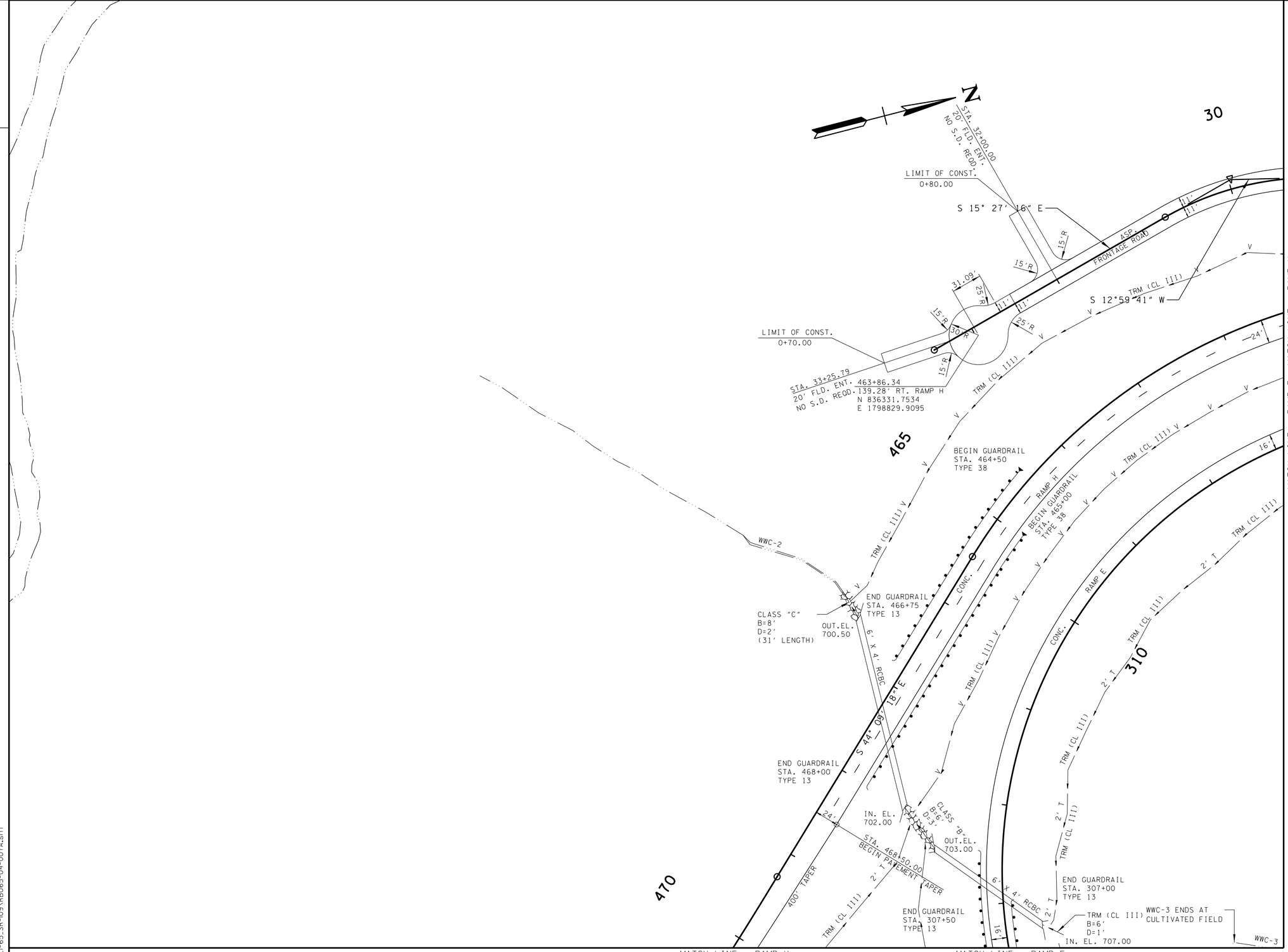
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	7A
CONST.	2014	STP/HPP/NH-I-65-3(113)	7A



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

RAMPS E & H

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	8
CONST.	2014	STP/HPP/NH-I-65-3(113)	8

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 21

SEE SHEET NO. 7

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S23	836694.6530	1800135.4540	731.47	1850+62.97	64.36' (RT)
S35	836919.9620	1800051.5990	732.03	1852+60.24	73.04' (LT)
S15	837013.1261	1799973.8977	730.40	1853+31.08	171.53' (LT)

POTENTIAL SINKHOLE LOCATION

WWC-3

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139
(SEE SHEETS 45-46 FOR PROFILE)

JAMES C. ANDERSON, ETUX
MARILYN K. ANDERSON
32

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726
(SEE SHEETS 45-46 FOR PROFILE)

1850

CULTIVATED FIELD

XCP = S15
IRON PIN W/ CAP
N 837013.1261
E 1799973.8977
EL. 730.40

JOSEPH E. HOPKINS
35

METAL SHED

1855

HOT HOUSE

METAL SHED

PROPANE TANK

DOG PEN

GRASS

CHERYLL EVERETT JAMES
34

1-S-F (RES.)

CHAINLINK

WOVENWIRE

CONC. WALK

CAR PORT

GRV

BARBED WIRE

33

CHARLES H. KEEN, ETUX
EVELYN KEEN

WOOD DECK

WOOD GAR.

GRASS

PORTLAND CITY LIMITS

10' GRV

11' GRV

TREES 30

METAL POST

TOP-724.62
INV-713.26
INV-713.20

POTENTIAL SINKHOLE LOCATION

TOP-719.52
INV-715.06
INV-714.91

NO LID

8" SA

3" WATER (ABANDONED)

OLD REST STOP SEWER (ABANDONED)

GRAVEL

INV-717.00

WWC-2

CITY OF PORTLAND

SHOT & CHIP SURFACE

CP-S15

4" W

INV-717.36

TOP-733.45
INV-719.95
INV-719.83

TREES INV-733.69

18" CMP INV-735.90

LIMIT OF CONST. 30+00.00

S. OLD DETOUR ROAD

PORTLAND CITY LIMITS

WWC-4

300

385

700

695

N 14° 21' 49" E

WOVENWIRE

N 13° 25' 52" E

TREES

N 15° 59' 23" E

NO PARKING ANYTIME

NO PARKING ANYTIME

GRASS

I-65

EISENHOWER INTERSTATE SYSTEM

CONC. DITCH

INV-722.85

S 14° 26' 40" W

INV-719.90

CP-S35

CONC. DITCH
STATE LAW MOVE OVER FOR STOPPED EMERGENCY VEHILES $500 MAXIMUN FINE

EXIST. 24" RCP TO BE PLUGGED

RUMBLE STRIP

ASP

XCP = S35
MAG SPIKE
N 836919.9620
E 1800051.5990
EL. 732.03

NO ATT/D

I-65 SOUTHBOUND (ASP.)

ASP.

EXIST. 12"x18" CMP AND ENDWALL TO BE REMOVED

12"X18"CMP

INV-723.95

N 14° 26' 40" E

I-65

GRASS

EXIST. 42" RCP AND ENDWALLS TO BE REMOVED

42" RCP

EXIST. C.B. TO BE REMOVED.

15" RCP

TOP-728.12
INV-725.98

AUTHORIZED VEHICLES ONLY

EXIST. GUARDRAIL TO BE REMOVED

I-65 NORTHBOUND (ASP.)

EXIST. 15" RCP TO BE REMOVED

ASP.

31

L & W PROPERTIES GROUP
C/O LARRY COLLINS

4"CPP
INV-726.62

4"CPP
INV-726.01

INV-724.51

CONC. DITCH

XCP = S23
MAG SPIKE
N 836694.6530
E 1800135.4540
EL. 731.47

NO FEATURE TO CULVERT INLET-STORMWATER DRAINAGE ONLY

4"CPP
INV-729.23

CONC. DITCH

INV-724.67

4"CPP
INV-730.74

4"CPP
INV-732.56

CONC.

CONC. DITCH

GRASS

TREES / BRUSH

ATT CABLE

F (UG)

PORTLAND CITY LIMITS

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

NO. 74-0016

N 48° 46' 14" W

S.R. 109

CITY OF PORTLAND

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

JAMES H. CUMMINGS
28

CULTIVATED FIELD

TREES / BRUSH

210

6" G

10" W

6" FMS

RAMP C

OPEN FIELD

N 16° 27' 12" W

CITY OF PORTLAND

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

MATCH LINE - S.R. 109
STA. 381+50.00
SEE SHEET NO. 19

MATCH LINE - RAMP C
STA. 207+53.64

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 6

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 9

SEE SHEET 20 FOR S.R. 109 PROFILE

SEE SHEET 8C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	8A
CONST.	2014	STP/HPP/NH-I-65-3(113)	8A

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 21A

SEE SHEET NO. 7A

N

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139
(SEE SHEETS 45-46 FOR PROFILE)

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726
(SEE SHEETS 45-46 FOR PROFILE)

1850 1855 1700 1695 1705 1710 1715 1720 1725 1730 1735 1740 1745 1750

PC 300+00.00

STA. 321+82.28
BEGIN PAVEMENT TAPER
CONC. DT.
DOWN SLOPE
B=3'
D=0.5'

5'x10' CLASS "B"
ENERGY DISSIPATOR

GT. EL. 755.95
IN. EL. 750.20
IN. EL. 750.20
OUT.EL. 750.00

74 #25

18" RCP

10' RAISED MEDIAN

RAMP E

SC 391+50.07

POLE B (PROP.)

POLE C (PROP.)

END GUARDRAIL
STA. 391+31.49
TYPE 38

STA. 390+60 (1' RT)
END BAY TAPER

GT. EL. 756.65
IN. EL. 751.70
OUT.EL. 751.50

73 #25

GT. EL. 757.15
IN. EL. 752.60
OUT.EL. 752.40

72 #25

WWC-3

TRM (CL III)
B=2.0'
D=1.0'

15'x18' CLASS "B" APRON

OUT.EL. 722.00

PT 324+22.28

STA. 324+22.28 (RAMP E)
END PAVEMENT TAPER

12" CONC. ASP.

GT. EL. 757.40
IN. EL. 753.40
OUT.EL. 753.20

70 #25

GT. EL. 757.45
OUT.EL. 753.50

69 #25

STA. 387+32.01 (S.R. 109)
END PAVEMENT TAPER

TS 387+30.07

30" RCP

GT. EL. 757.25
IN. EL. 753.00
OUT.EL. 752.80

71 #25

POT 25+78.13

IN. EL. 726.00
STA. 388+20 (13' RT)
BEGIN BAY TAPER

BEGIN GUARDRAIL
STA. 1855+20.21
TYPE 13

12' PVT. DR.
NO S.D. REQD.

LIMIT OF CONST.
1+10.00

PORTLAND CITY LIMITS

PC 27+88.51

PT 28+24.65

PC 29+24.37

PT 29+81.22

30

CLASS "B" 4'
WIDE PAD
GOING UP 2:1 BEGIN GUARDRAIL
BACKSLOPE TO STA. 30+30.00
WALL TYPE 21

22' RAISED MEDIAN

END BIRDGE
STA. 386+91.99 ±

TRM (CL III)
B=6'
D=2'

SOD
B=6'
D=3'

6' T

RELOCATED WWC-2 & WWC-4

TRM (CL III)
B=4'
D=2'

WWC-2

CLASS "B"
B=6'
D=3'
(15' LENGTH)

C.L. BENT NO. 2
STA. 386+35.49 ±

TRM (CL III)
1854+65.00
206.66' LT.
N 837151.5733
E 1799973.2862

P.I. = 0+95
Δ = 41° RT.
R = 25'

P.I. = 0+55 1855+25.00
Δ = 35° LT.
R = 25'
151' LT.
CENTER OF WALL

PROPOSED LIMIT OF CONST.
RETAINING 30+00.00
WALL S. OLD DETOUR ROAD

6.34'

STA. 302+40.00
END PAVEMENT TAPER

21'x24' CLASS "B" APRON

OUT.EL. 719.50

300

OUT.EL. 719.00

48" RCP

14 MH

STA. 300+00.00
BEGIN PAVEMENT TAPER

GT. EL. 728.60
IN. EL. 720.00
OUT.EL. 719.50

385 700

54.53'

N 14° 21' 49" E

OUT.EL. 727.60

695

CLASS "A" RIP-RAP
4' WIDE 2' PAST
DITCH UP BACKSLOPE

N 15° 59' 23" E

END GUARDRAIL
STA. 1858+31.25
TYPE 38

120' PVMT. & SH. TAPER

OUT.EL. 730.15

SEE SHEET 20 FOR S.R. 109 PROFILE

UNOFFICIAL SET
NOT FOR BIDDING

END ASP.
BEGIN CONC.
STA. 301+77.28

16' CONC. ASP. RAMP E

RAMP E / RAMP "I"
CD ROAD

S 14° 26' 40" W

N 14° 26' 40" E

I-65

I-65 SOUTHBOUND

I-65 NORTHBOUND

C.L. BENT NO. 1
STA. 384+89.99 ±

BARRIER WALL ASP.

MEDIAN BARRIER

BARRIER WALL

PROP. FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL. (SEE STD. DWG. S-SSMB-4)

PROP. FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL. (SEE STD. DWG. S-SSMB-7)

STA. 1848+40.00 (14' LT)
END (70:1) STRIPING TRANSITION

IN. EL. 722.00

STA. 384+32.01
BEGIN PAVEMENT TAPER

STA. 384+80 (13' LT)
END BAY TAPER

IN. EL. 724.00

TRM (CL III)

CLASS "A"
B=4'
D=2'
(5' LENGTH)

BEGIN BIRDGE
STA. 383+45.99 ±

PORTLAND CITY LIMITS

STA. 210+64.74
BEGIN PAVEMENT TAPER

120' TAPER

210

SC 211+01.48

TS 208+36.48

RAMP C

N 16° 27' 12" W

MATCH LINE - RAMP C
STA. 207+53.64

N 48° 46' 14" W

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 382+40 (1' LT)
BEGIN BAY TAPER

STA. 381+55 (13' RT)
END PAVEMENT TAPER

MATCH LINE - S.R. 109
STA. 381+50.00
SEE SHEET NO. 19A

20'x23' CLASS "B" APRON
OUT.EL. 729.25

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 6A

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 9A

2741 [2749]
2141 [4791]
600 [2700]
S.R. 109
1418 [3171]
1144 [2557]
1144 [2557]
844 [1036]
1578 [3529]
458 [1470]
105 [97]
105 [97]
1063 [1567]
1063 [1567]
958 [1470]
5684 [3643]
4004 [3097]
4004 [3097]
5067 [4664]
10,153 [9856]
I-65
I-65
10,366 [10,241]
4469 [6213]
3894 [4608]
3894 [4608]
5299 [5577]
575 [1605]
405 [897]
405 [897]
1405 [3693]
REST AREA
2034 DHV PM [AM]
1337 [11959]
1243 [13333]
2580 [2532]

I-65 STORM DRAINAGE STRUCTURES			
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(OUT)
12	730.20	721.00	720.70
13	730.00	720.30	720.00
14		720.00	719.50
15	733.50		729.15
16	733.30	728.40	728.10
17	736.30		731.80
18	736.10	730.90	730.60

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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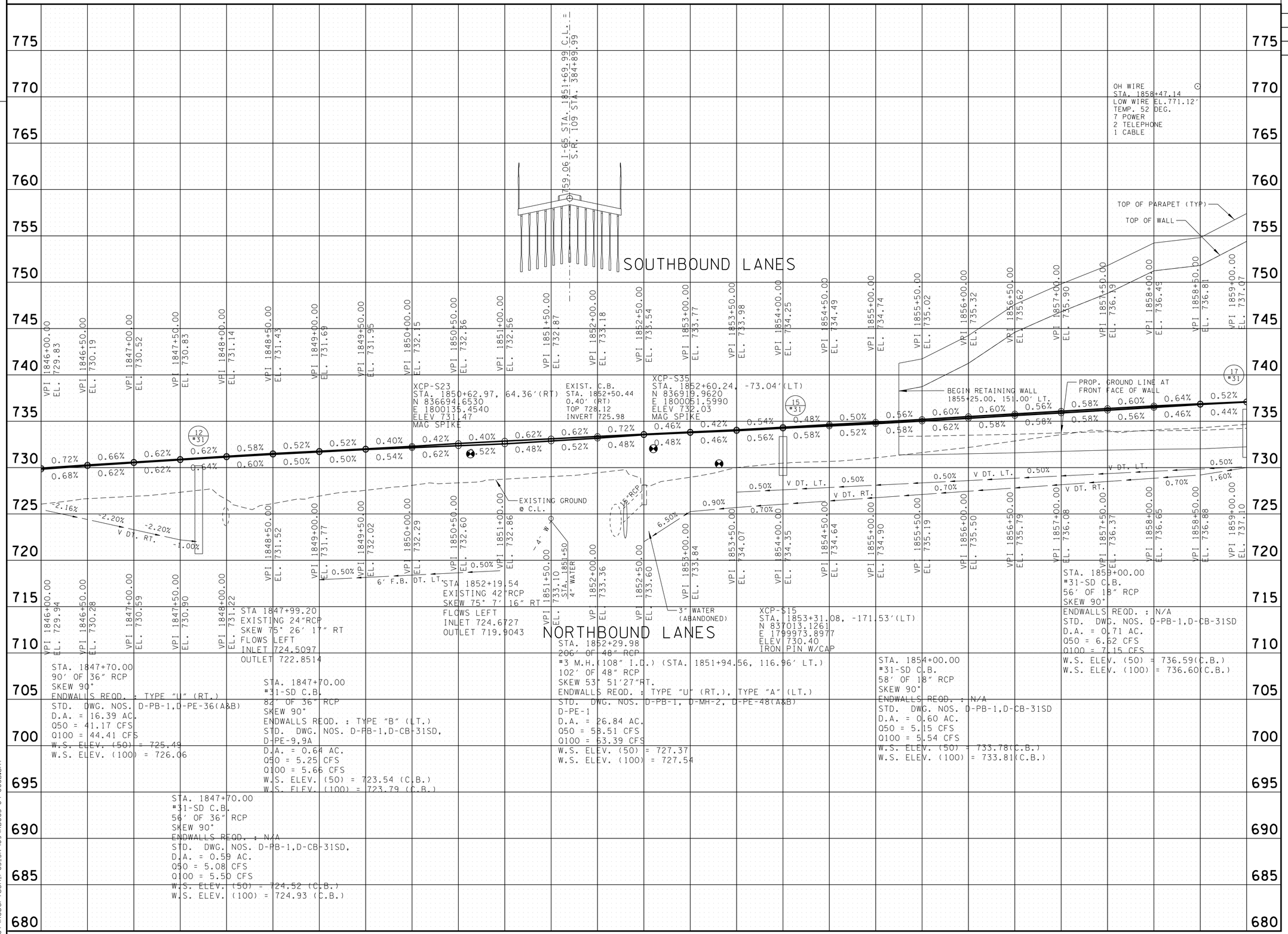
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	8B
CONST.	2014	STP/HPP/NH-I-65-3(113)	8B



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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1846+00 TO STA.1859+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	8C
CONST.	2014	STP/HPP/NH-I-65-3(113)	8C

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 21

SEE SHEET NO. 7

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S23	836694.6530	1800135.4540	731.47	1850+62.97	64.36' (RT)
S35	836919.9620	1800051.5990	732.03	1852+60.24	73.04' (LT)
S15	837013.1261	1799973.8977	730.40	1853+31.08	171.53' (LT)

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139
(SEE SHEETS 45-46 FOR PROFILE)

JAMES C. ANDERSON, ETUX
MARILYN K. ANDERSON
(32)

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726
(SEE SHEETS 45-46 FOR PROFILE)

1850

390

RAMP E

S.R. 109

N 82° 20' 58" W
68.39'
392+75.00
130.00'

392+55.33
133.70'

391+45.87
148.77'

N 10° 48' 38" E
113.52'

391+91.27
193.17'

390+69.14
59.89'

1855

JOSEPH E. HOPKINS
(35)

N 82° 50' 26" W
432.93'

(A) N 21° 11' 03" W - 130.09'
(B) N 45° 15' 17" W - 17.90'
(C) N 82° 20' 58" W - 81.25'
(D) N 10° 48' 38" E - 59.07'
(L) N 5° 59' 06" W - 31.98'

PROP. R.O.W. & C.A. FENCE

CHERYLL EVERETT JAMES
(34)

15' INGRESS AND EGRESS ESMT.

S 82° 56' 30" E
154.07'

N 45° 15' 17" W
185.30'

389+41.36
155.90'

N 82° 56' 30" W
91.86'

XCP = S15
IRON PIN W/ CAP
N 837013.1261
E 1799973.8977
EL. 730.40

CHARLES H. KEEN, ETUX
EVELYN KEEN
(33)

N 82° 31' 33" W
250.65'

1856+94.94
240.12'

30

S 12° 25' 23" W
216.19'

387+47.64
0.00'

1854+08.29
230.00'

PRES. R.O.W. (C.A.) & FENCE

N 14° 26' 40" E
843.73'

N 14° 26' 40" E
122.19'

N 12° 25' 23" E
115.69'

N 12° 25' 23" E
171.15'

EIP

1855+23.30
234.08

LIMIT OF CONST.
30+00.00

S.OLD DETOUR ROAD

CP-S15

300

385

700

695

RAMP E

N 14° 21' 49" E

N 13° 25' 52" E

N 15° 59' 23" E

CD ROAD

S 14° 26' 40" W

CP-S35

XCP = S35
MAG SPIKE
N 836919.9620
E 1800051.5990
EL. 732.03

N 14° 26' 40" E
I-65

I-65

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 6

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 9

CP-S23

XCP = S23
MAG SPIKE
N 836694.6530
E 1800135.4540
EL. 731.47

383+21.81
0.00'

PRES. R.O.W. (C.A.) & FENCE

20' AT&T F.O.C. ESMT.

N 14° 25' 46" E
671.45'

N 14° 25' 46" E
538.31'

1856+32.51
150.00'

N 14°23'00" E
438.09'

1858+49.92
150.78'

210

(31)

L & W PROPERTIES GROUP
C/O LARRY COLLINS

N 48° 46' 14" W

S.R. 109

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

S 39° 52' 5" E
575.73'

S 34° 50' 47" E
360.17'

N 16° 27' 12" W

N 7° 40' 15" W
726.44'

PROP. R.O.W. & C.A. FENCE

PRES. R.O.W.

JAMES H. CUMMINGS
(28)

MATCH LINE - S.R. 109
STA. 381+50.00
SEE SHEET NO. 19

MATCH LINE - RAMP C
STA. 207+53.64

SEE SHEET 20 FOR S.R. 109 PROFILE

UNOFFICIAL SET
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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

I-65
STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

MATCH LINE SEE SHEET NO. 22

JOSEPH E. HOPKINS
JOSEPH E. HOPKINS
35
36
FIELD LINES
METAL SHED
1860
EXIST. PIPE TO BE REMOVED
INV-726.50
24"PLASTIC
INV-726.45
WWC-1 CONVEYANCE BEGINS AT CULVERT OUTLET
INV-726.81
INV-726.63
30"PLASTIC TO BE REMOVED
CORRAL
WOOD FB BARN
PORTLAND CITY LIMITS
1-S-F (RES.)
GRASS
SHED
TOP-733.18
INV-723.12
INV-723.02
22" HDPE
EXIST. PIPE TO BE REMOVED
INV-727.38
LIMIT OF CONST. 36+13.00
LOU HALL
37
STA. 36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)
OLD REC. 8" PIPE SEWER (ABANDONED)
OLD REC. 8" PIPE SEWER (ABANDONED)
TOP-738.90
INV-731.34
INV-731.24
DISTRUBED
N 13° 25' 52" E
N 33° 22' 28" W
LAKE SPRINGS ROAD
JAMES C. ANDERSON, ETUX MARILYN K. ANDERSON
32
LIMIT OF CONST. 498+65.00
TOP-730.14
INV-728.09
EXIST. PIPE TO BE REMOVED
1865
PORTLAND CITY LIMITS
S 4° 56' 56" W
500
CONC DITCH
CITY OF PORTLAND CHAINLINK
SCARIFY, ADD TOPSOIL & SEED
NO CITY GAS
STOP
TOP-737.85
INV-734.52
INV-734.42
S 20° 43' 54" E
TOP-738.58
INV-727.96
INV-727.94
48" ST
TOP-733.99
INV-728.51
INV-728.47
STA. 499+25.00 RAMP "I"
N 838101.0549
E 1800145.0757
(SEE SHEET 51 FOR PROFILE)
PEDESTRIAN
NON-MOTORIZED TRAFFIC
MOTOR DRIVEN CYCLES
PROHIBITED
690
TRAVEL INFO
NO PARKING
ANY TIME
CALL 511
CONC.
S 14° 26' 40" W
TOP-738.26
INV-734.47
SCARIFY, ADD GRASS
TOPSOIL & SEED
685
S 14° 19' 12" W
EXIST. PIPE TO BE REMOVED
TOP-734.80
INV-730.81
TOP-736.39
INV-729.56
INV-729.11
INV-729.09
EXIST. PIPE TO BE REMOVED
MM121
ASP.
CP-S34
MERGE
XCP # S34
MAG SPIKE
N 837849.4350
E 1800290.4880
EL. 737.54
EXIST. GUARDRAIL TO BE REMOVED
I-65 SOUTHBOUND (ASP.)
N 14° 26' 40" E
GRASS / GRV
ASP.
N 14° 06' 39" E
I-65
ASP.
CONC. BARRIER RAIL
EXIST. C.B. TO BE REMOVED.
15" RCP
TOP-739.60
INV-733.30
N 14° 28' 04" E
I-65 NORTHBOUND (ASP.)
EXIST. 15" RCP TO BE REMOVED
CP-S24
4"CPP INV-734.02
MM 121
4"CPP INV-734.34
4"CPP INV-735.45
XCP # S24
MAG SPIKE
N 837820.0460
E 1800426.6980
EL. 737.83
4"CPP INV-735.54
N 14° 17' 36" E
N 16° 27' 12" W
RAMP C
48" RCP
INV-730.56
CONC. DITCH
CONC. DITCH
GRASS
WOVENWIRE
NO FEATURE TO CULVERT INLET-STORMWATER DRAINAGE ONLY
PORTLAND CITY LIMITS
PORTLAND CITY LIMITS
CITY OF PORTLAND 6" G
CITY OF PORTLAND 10" W
CITY OF PORTLAND 6" G
6" FMS
215
EXIST. CONCRETE DITCH TO BE REMOVED
OPEN FIELD
STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190
(SEE SHEETS 43-44 FOR PROFILE)
CULTIVATED FIELD
SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA
31
L & W PROPERTIES GROUP
C/O LARRY COLLINS
KENTUCKY DOWNS, LLC.
SOFA WAREHOUSE OF PORTLAND & KLAUSSNER CORP. SERVICES
METAL / BLOCK WAREHOUSE

PICNIC TABLE
1-S-LOG
1-S-LOG
1-S-B (REST AREA)
PICNIC TABLE
GRASS
CONC.
GRASS
RW
CONC.
SOLAR PANEL
1870
ASP.
TOP-747.94
TOP-749.64
C&G
TOP-749.94
TOP-750.05
TOP-743.97
TOP-743.72
CONC
TOP-745.16
TOP-749.59
S 40° 50' 57" W
GRASS
680
STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780
TOP-746.01
TOP-747.02
GRASS
CONC. DITCH
18" RCP
INV-741.84
SEN. AL GORE SR. MEMORIAL
CP-S33
XCP # S33
MAG SPIKE
N 838757.3620
E 1800535.2010
EL. 742.98

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 8
MATCH LINE STA. 1872+00.00 SEE SHEET NO. 10

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S34	837849.4350	1800290.4880	737.54	1862+19.93	73.55' (LT)
S24	837820.0460	1800426.6980	737.83	1862+25.44	65.68' (RT)
S33	838757.3620	1800535.2010	742.98	1871+60.17	62.64' (LT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	9
CONST.	2014	STP/HPP/NH-I-65-3(113)	9

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 07-10-14: CHANGED OWNERS NAME FROM BC RACING GROUP, LLC. C/O CLIFF REED TO KENTUCKY DOWNS, LLC.

SEE SHEET 9C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
FARMER
No. 107209
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA. 1859+00 TO STA. 1872+00

SCALE: 1"=50'

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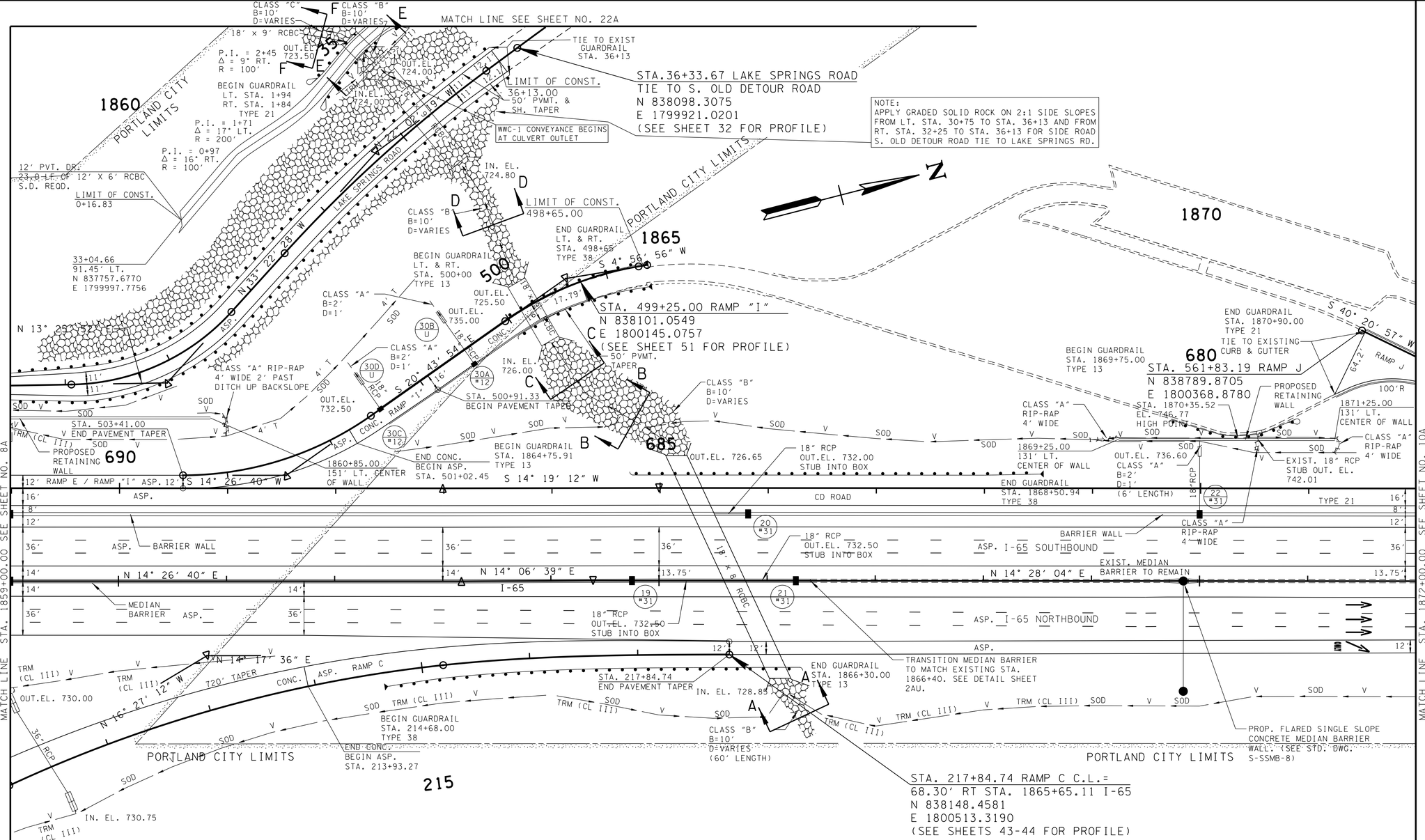
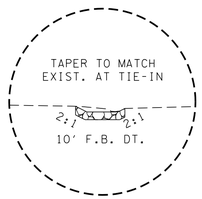
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	9A
CONST.	2014	STP/HPP/NH-I-65-3(113)	9A

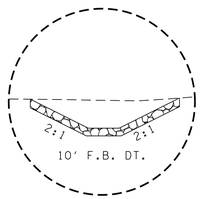
REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.



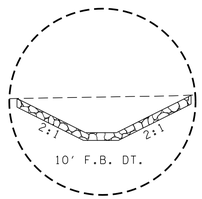
SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA



SECTION A-A
EXISTING & PROPOSED
2X SIZE

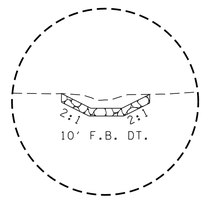


SECTION B-B
EXISTING & PROPOSED
2X SIZE

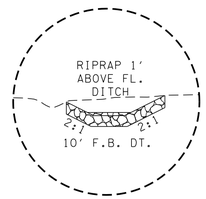


SECTION C-C
EXISTING & PROPOSED
2X SIZE

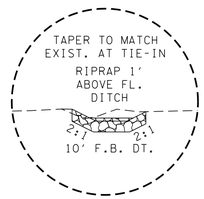
I-65 STORM DRAINAGE STRUCTURES				
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
19	739.30			733.50
20	739.90			733.00
21	739.60			733.50
22	742.20			737.00
30A	740.00			736.00
30C	737.40			733.50



SECTION D-D
EXISTING & PROPOSED
2X SIZE



SECTION E-E
EXISTING & PROPOSED
2X SIZE



SECTION F-F
EXISTING & PROPOSED
2X SIZE

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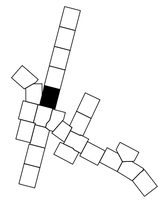

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1859+00 TO STA.1872+00

SCALE: 1"=50'

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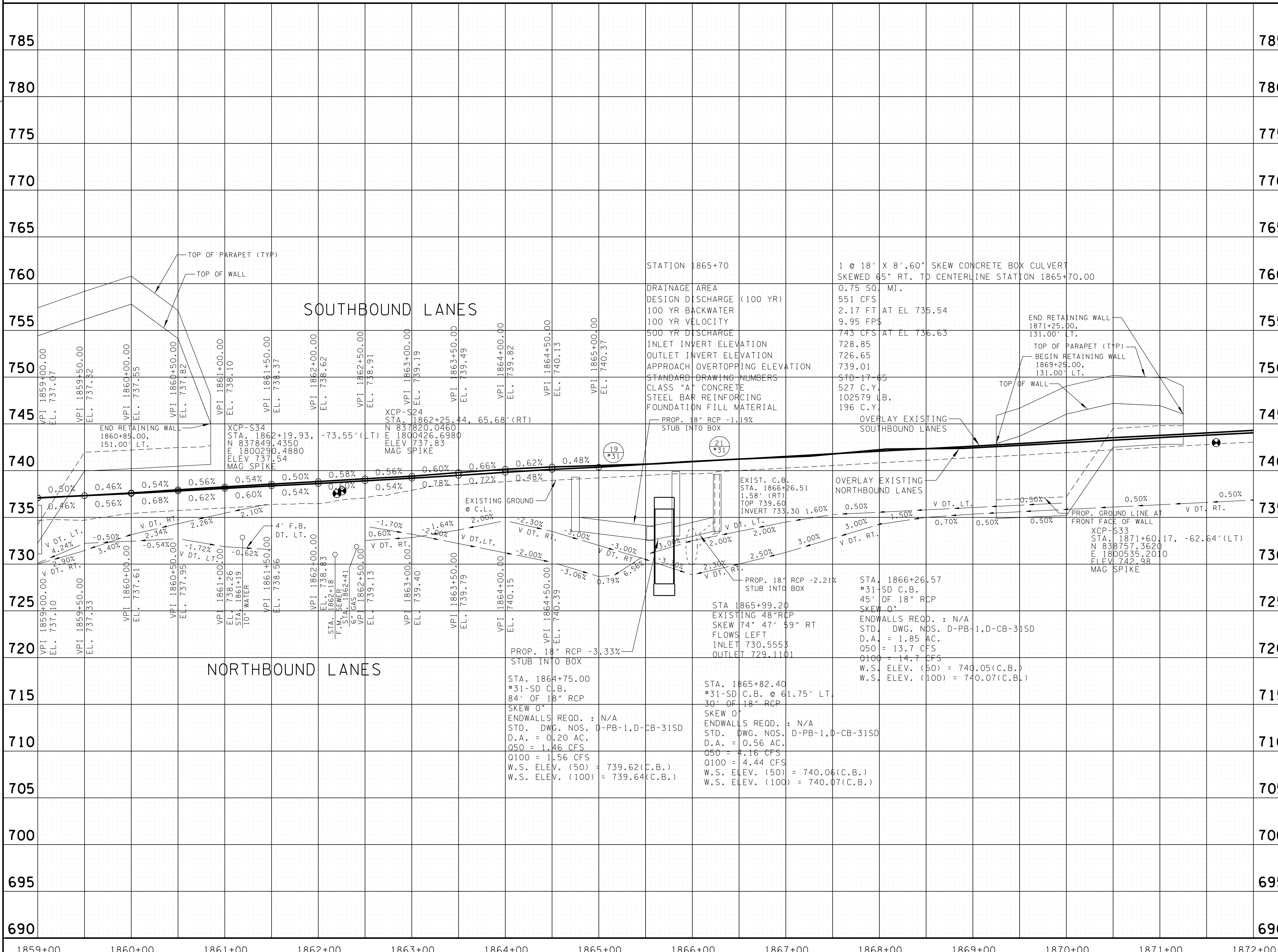
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	9B
CONST.	2014	STP/HPP/NH-I-65-3(113)	9B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 107296 STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1859+00 TO STA.1872+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

MATCH LINE SEE SHEET NO. 22

JOSEPH E. HOPKINS
35 36
JOSEPH E. HOPKINS
S 85° 49' 48" W 105.40'
PERM. DRAIN. ESMT.
34+40.00 80.66'
20' INGRESS AND EGRESS ESMT.
N 87° 13' 25" W 440.79'
1860
N 29° 1' 0" W 8.79'
2"PIPE ELEV.
N 22° 02' 19" W
LAKE SPRINGS ROAD
LIMIT OF CONST. 36+13.00
LOU HALL
37
STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)
S 56° 12' 37" W 577.13'
LIMIT OF CONST. 498+65.00
1865
1870
S 4° 56' 56" W
500
N 33° 22' 28" W
JAMES C. ANDERSON, ETUX MARILYN K. ANDERSON
32
PRES. R.O.W.
DISTRUBED
N 13° 25' 52" E
STA. 499+25.00 RAMP "I"
N 838101.0549
E 1800145.0757
(SEE SHEET 51 FOR PROFILE)
S 40° 20' 57" W
RAMP J
680
STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780
S 20° 43' 54" E
RAMP "I"
690
685
S 14° 26' 40" W
S 14° 19' 12" W
CP-S34
XCP # S34
MAG SPIKE
N 837849.4350
E 1800290.4880
EL. 737.54
CD ROAD
CP-S33
XCP # S33
MAG SPIKE
N 838757.3620
E 1800535.2010
EL. 742.98
N 14° 26' 40" E
N 14° 06' 39" E
I-65
N 14° 28' 04" E
MATCH LINE STA. 1859+00.00 SEE SHEET NO. 8
MATCH LINE STA. 1872+00.00 SEE SHEET NO. 10

CP-S24
N 16° 27' 12" W
N 14° 17' 36" E
RAMP C
XCP # S24
MAG SPIKE
N 837820.0460
E 1800426.6980
EL. 737.83
N 14° 23' 0" E 401.20'
1866+89.28 150.49'
N 14° 26' 57" E 1416.42'
20' AT&T F.O.C. ESMT.
END PROP. C.A. FENCE 1862+88.01 - 150.31'
215
P.U.E.
N 7° 40' 15" W 726.44'
PROP. R.O.W. & C.A. FENCE
STA. 217+84.74 RAMP C C.L.= 68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190
(SEE SHEETS 43-44 FOR PROFILE)
S 79° 4' 46" E 239.64'
20' P.U.E.
S 79° 27' 24" E 500.00'
S 9° 49' 3" W 750.00'
S 79° 27' 24" E 350.00'

Ⓐ N 14° 23' 0" E - 438.09'
Ⓑ S 12° 25' 23" W - 216.19'
Ⓒ 1859+11.00 - 247.74'
Ⓓ N 11° 46' 3" E - 64.88'
Ⓔ 1859+75.81 - 250.77'
Ⓕ N 82° 50' 26" W - 432.99'
Ⓖ S 89° 51' 41" W - 276.09'
Ⓗ S 86° 34' 31" W - 78.98'
Ⓘ S 86° 27' 43" W - 117.29'
Ⓙ S 28° 58' 55" E - 164.05'
Ⓚ S 29° 14' 26" E - 86.08'
Ⓛ S 29° 1' 0" E - 122.59'
Ⓜ 1860+94.96 - 363.54'
Ⓝ 1861+57.21 - 423.00'

31
L & W PROPERTIES GROUP
C/O LARRY COLLINS

KENTUCKY DOWNS, LLC.

SOFA WAREHOUSE OF PORTLAND & KLAUSSNER CORP. SERVICES

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S34	837849.4350	1800290.4880	737.54	1862+19.93	73.55' (LT)
S24	837820.0460	1800426.6980	737.83	1862+25.44	65.68' (RT)
S33	838757.3620	1800535.2010	742.98	1871+60.17	62.64' (LT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	9C
CONST.	2014	STP/HPP/NH-I-65-3(113)	9C

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 07-10-14: CHANGED OWNERS NAME FROM BC RACING GROUP, LLC. C/O CLIFF REED TO KENTUCKY DOWNS, LLC.

REV. 08-26-14: ADJUSTED DISTANCES BETWEEN ALONG PROPERTY AND EASEMENT LINES FOR TRACTS 32 & 37 BECAUSE OF CHANGE TO DRAINAGE EASEMENT.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

I-65
STA.1859+00 TO STA.1872+00

SCALE: 1"=50'

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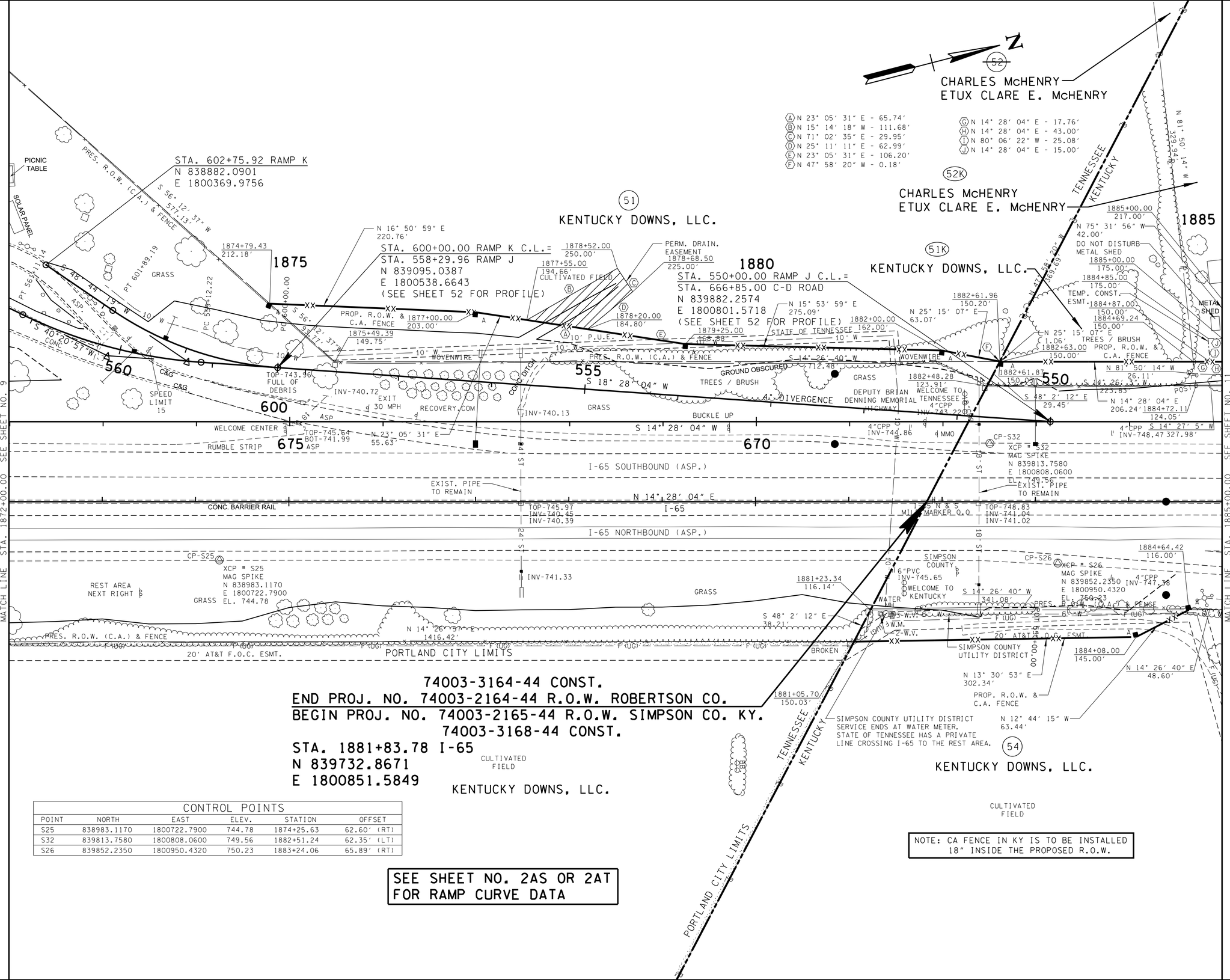
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	10
CONST.	2014	STP/HPP/NH-I-65-3(113)	10

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.

REV. 04-02-14: ADDED 6" EXIST. SIMPSON COUNTY UTILITY DISTRICT WATER LINE TO TRACT 54.

REV. 07-10-14: CHANGED OWNERS NAME FROM BC RACING GROUP, LLC. C/O CLIFF REED TO KENTUCKY DOWNS, LLC. FOR TRACT 51, 51K, & 54.



74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.

STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S25	838983.1170	1800722.7900	744.78	1874+25.63	62.60' (RT)
S32	839813.7580	1800808.0600	749.56	1882+51.24	62.35' (LT)
S26	839852.2350	1800950.4320	750.23	1883+24.06	65.89' (RT)

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107236
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA. 1872+00 TO STA. 1885+00
SCALE: 1"=50'

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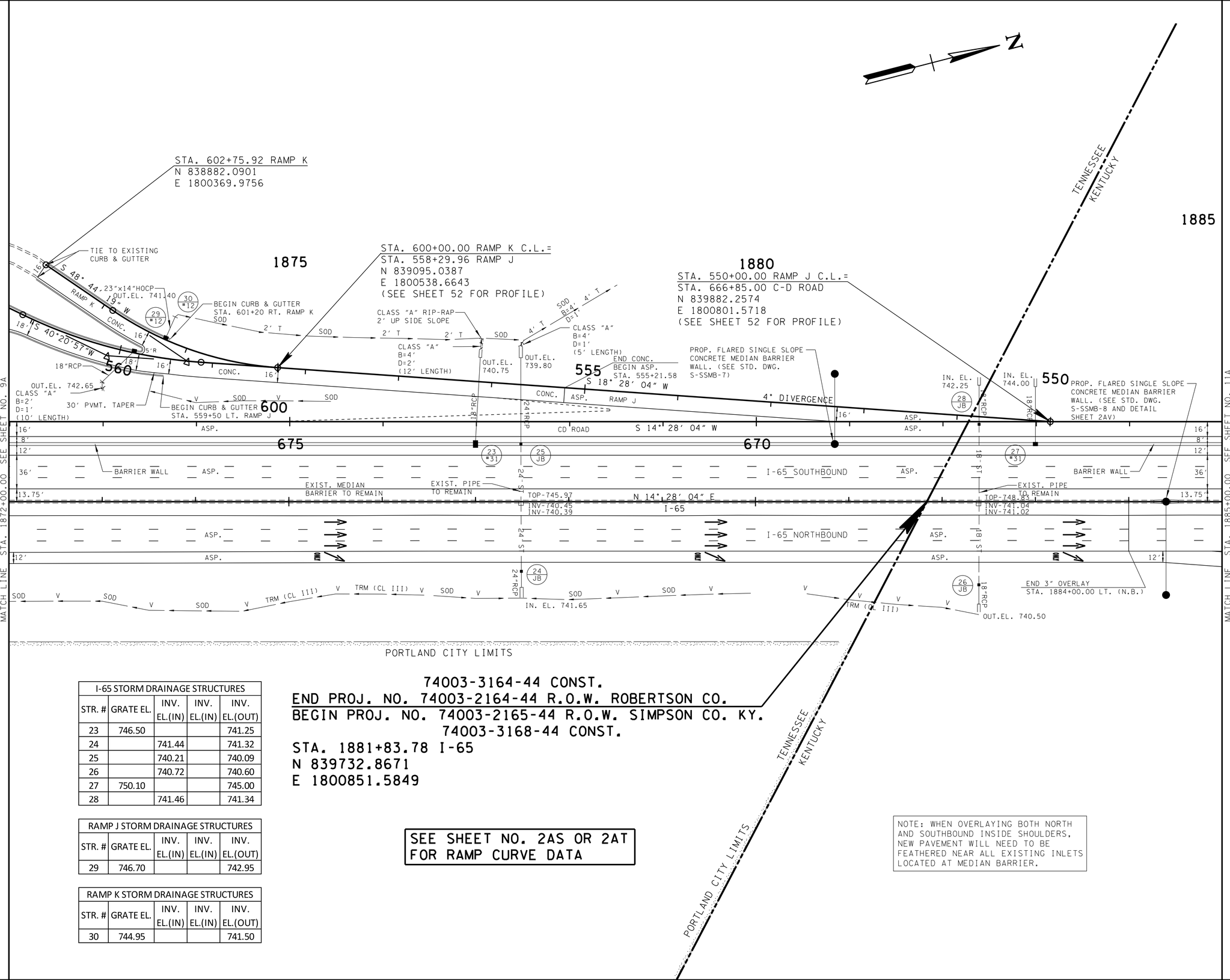
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	10A
CONST.	2014	STP/HPP/NH-I-65-3(113)	10A



I-65 STORM DRAINAGE STRUCTURES				
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
23	746.50			741.25
24		741.44		741.32
25		740.21		740.09
26		740.72		740.60
27	750.10			745.00
28		741.46		741.34

RAMP J STORM DRAINAGE STRUCTURES				
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
29	746.70			742.95

RAMP K STORM DRAINAGE STRUCTURES				
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
30	744.95			741.50

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

NOTE: WHEN OVERLAYING BOTH NORTH AND SOUTHBOUND INSIDE SHOULDERS, NEW PAVEMENT WILL NEED TO BE FEATHERED NEAR ALL EXISTING INLETS LOCATED AT MEDIAN BARRIER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1872+00 TO STA.1885+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	10B
CONST.	2014	STP/HPP/NH-I-65-3(113)	10B

REV. 04-02-14: ADDED 6" EXIST. SIMPSON COUNTY UTILITY DISTRICT WATER LINE TO PROFILE STA. 1881+35 TO 1885+00.

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65

XCP-S25
STA. 1874+25.63, 62.60'(RT)
N 838983.1170
E 1800722.7900
ELEV 744.78
MAG SPIKE

STA 1877+48.81
EXISTING 24"RCP
SKEW 89° 44' 14" RT
FLOWS LEFT
INLET 741.3292
OUTLET 740.1335

OVERLAY EXISTING SOUTHBOUND LANES
OVERLAY EXISTING NORTHBOUND LANES
EXISTING GROUND @ C.L.

STA. 1877+48.66
#1 J.B. @ 74.65' RT.
17' OF 24" RCP (EXT.)
SKEW 89°44'14" RT.
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-JBS-1,
D-PE-24(A&B)
D.A. = 1.15 AC.
Q50 = 3.12 CFS
Q100 = 3.33FS
W.S. ELEV. (50) = 742.46
W.S. ELEV. (100) = 742.49

XCP-S32
STA. 1882+51.24, -62.35'(LT)
N 839813.7580
E 1800808.0600
ELEV 749.56
MAG SPIKE

STA. 1883+00.00
#31-SD C.B. @ 61.75' LT.
58' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (LT.)
STD. DWG. NOS. D-PE-1,D-CB-31SD,
D-PE-18(A&B)
D.A. = 0.63 AC.
Q50 = 4.66 CFS
Q100 = 4.99 CFS
W.S. ELEV. (50) = 750.38(C.B.)
W.S. ELEV. (100) = 750.41(C.B.)

XCP-S26
STA. 1883+24.06, 65.89'(RT)
N 839852.2350
E 1800950.4320
ELEV 750.23
MAG SPIKE

END 3" OVERLAY
STA. 1884+00.00 RT. (N.B.)

STA. 1881+46
10" WATER

STA 1882+39.06
EXISTING 18"RCP
SKEW 89° 49' 06" RT
FLOWS LEFT
INLET 741.4182
OUTLET 740.7203

STA. 1882+39.63
#1 J.B. @ 82.91' LT.
40' OF 18" RCP (EXT.INLET)
#1 J.B. @ 89.11' RT.
19' OF 18" RCP (EXT.OUTLET)
SKEW 89°49'06" RT.
ENDWALLS REQD. : TYPE "U" (LT.& RT.)
STD. DWG. NOS. D-PB-1,D-JBS-1,
D-PE-18(A&B)
D.A. = 1.21 AC.
Q50 = 8.5 CFS
Q100 = 9.1 FS

EXC. (UNCLASSIFIED)
4,378 C.Y.

COMMON 4,378 C.Y. INCL. 3,532 C.Y. MAINLINE COMMON (SHR. 20%)
0 C.Y. SIDEROAD COMMON (SHR. 20%)
846 C.Y. TOPSOIL FROM CUT AREAS

ROCK 0 C.Y. (SWELL 15%)

EXC.
EMB.

EMB. 11,500 C.Y. INCL. 11,500 C.Y. FROM MAINLINE
0 C.Y. FROM SIDE ROAD

4,378 C.Y. EXC. (COM.)
- 846 C.Y. TOPSOIL FROM EXC. AREAS
3,532 C.Y. EXC. (COM.) AVAILABLE FOR BALANCE

$\frac{\text{EXC. (COM.)}}{1.20}$ + [EXC. (ROCK) x 1.15] VS. EMB.

$\frac{3,532}{1.20}$ + [0 C.Y. x 1.15] VS. 11,500 C.Y.

2,943 VS. 11,500 C.Y.

8,557 C.Y. (BORROW) X 1.20 = 10,268 C.Y. BORROW UNCLASSIFIED REQ'D.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1872+00 TO STA.1885+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	11
CONST.	2014	STP/HPP/NH-I-65-3(113)	11

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.

REV. 07-10-14: CHANGED OWNERS NAME FROM BC RACING GROUP, LLC. C/O CLIFF REED TO KENTUCKY DOWNS, LLC. FOR TRACT 54.

NOTE: CA FENCE IN KY IS TO BE INSTALLED 18" INSIDE THE PROPOSED R.O.W.

N

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S27	840959.2410	1801232.2610	773.46	1894+66.37	62.21' (RT)
S31	841037.1260	1801125.0190	773.81	1895+15.00	61.09' (LT)

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

(52K) CHARLES McHENRY
ETUX CLARE E. McHENRY
(A) 1885+00.00 - 175.00'

(53) RODRIGO LEDESMA, JOSE LEDESMA, & RODOLFO LEDESMA

ZEAGER HARDWOOD COMPANY

(54) KENTUCKY DOWNS, LLC.

1885 | 1890 | 1895 | 665 | 660 | 655

1885+00.00 217.00' N 75° 31' 56" W 42.00' N 10° 10' 43" E 40.11' TEMP. CONST. ESMT. 1885+40.00 220.00' N 79° 39' 34" W 69.47' N 14° 28' 04" E 43.00' 1885+30.00 150.00' 1885+45.00 150.71'

WOOD SHED

PROP. R.O.W. & C.A. FENCE

N 11° 46' 02" E 251.67' N 81° 1' 22" W 38.60' 1888+00.09 124.14'

N 81° 1' 22" W 633.40' WOVENWIRE

PASTURE

1887+96.39 162.57'

N 11° 46' 02" E 259.90' N 11° 46' 02" E 4.00'

N 14° 28' 04" E 46.00'

1890+60.00 175.00' 1890+56.00 174.81' 1891+02.00 224.00' N 32° 27' 03" W 67.35' N 10° 39' 13" E 150.33' 1891+48.00 224.00' TEMP. CONST. ESMT.

N 46° 38' 20" E 73.25' 1892+10.00 185.00' N 27° 45' 36" E 193.55' 1893+98.37 140.50'

POND

PROP. R.O.W. & C.A. FENCE

N 81° 18' 20" W 370.89'

MIDWESTERN GAS TRANSMISSION CO.

N 14° 26' 40" E 409.02'

PRES. R.O.W. (C.A.) & FENCE

S 14° 27' 5" W 327.98' N 11° 46' 02" E GRASS 15.02'

S 14° 26' 40" W 330.73' N 10° 59' 51" E 268.05' 1891+30.81 124.27' WELCOME CENTER NEXT RIGHT

INV-751.97 4"CPP INV-753.42 4"CPP INV-764.20 4"CPP INV-769.60

WOVENWIRE GRASS

S 17° 28' 04" W

CP-S31

XCP = S31
MAG SPIKE
N 841037.1260
E 1801125.0190
EL. 773.81

18" ST

I-65 SOUTHBOUND (ASP.)

EXIST. PIPE TO REMAIN

TOP-761.87 INV-753.73

N 14° 28' 04" E

PVMT JOINT

I-65 N & S MILE MARKER 0.2

TOP-768.72 INV-756.70

CONC. BARRIER RAIL

I-65

EXIST. PIPE TO REMAIN

I-65 NORTHBOUND (ASP.)

15" ST

TOP-763.74 INV-758.27

REST AREA

4"CPP INV-766.58

18" SD

ABRAHAM LINCOLN EXPRESSWAY

TOP-764.29 INV-760.98

CP-S27

4"CPP INV-770.11

XCP = S27
MAG SPIKE
N 840959.2410
E 1801232.2610
EL. 773.46

SPEED LIMIT 70

1885+13.02 115.98' N 14° 26' 40" E 48.60' N 19° 17' 13" E 433.98'

4"CPP INV-751.76 EXIT 45 MPH CONC MARKER

NO PARKING

CONCRETE CHAMBER INV-753.73 CONC MARKER

TREES / BRUSH

1889+45.47 152.44'

SPEED LIMIT 15

PARKING RESTRICTIONS

LIGHTING

WRONG WAY

ASP.

CONC.

GRASS

EW INV-770.43 18"RCP MH STORM

LIVE LINE

LEVEL 3

N 32° 52' 4" E 260.30'

BLOCK SHED

F (UG)

20' AT&T F.O.C. ESMT.

MIDWESTERN GAS TRANSMISSION CO.

CULTIVATED FIELD

TREES / BRUSH

N 60° 46' 29" E 446.83'

CONC. DITCH

TREES / GRASS

MATCH LINE STA. 1885+00.00 SEE SHEET NO. 10

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 12

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA.1885+00 TO STA.1898+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	11A
CONST.	2014	STP/HPP/NH-I-65-3(113)	11A

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

1885 1890 1895

665 660 655

MATCH LINE STA. 1885+00.00 SEE SHEET NO. 10A

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 12A

BARRIER WALL

16′ 8′ 12′ 36′ 13.75′ ASP.

CD ROAD

I-65 SOUTHBOUND

EXIST. MEDIAN BARRIER TO REMAIN

N 14° 28′ 04″ E

I-65

I-65 NORTHBOUND

5′x5′ CLASS "A" RIP-RAP PAD

POND TO BE DRAINED, FILLED AND STABILIZED

POND

OUT.EL. 753.30

18"RCP

33 #31

END BARRIER WALL STA. 1892+88 LT. 61.75′

34 #42

LOW MAINTENANCE NON-GATING CRASH CUSHION (NARROW)

35 #42

36 #42

18" ST

30" G

TOP-768.72

INV-756.70

TOP-764.29

INV-760.98

D-5.0′

D-5.9′

STA. 1897+50 TO STA. 1914+00 TO REMOVE RUMBLE STRIP, MILL 1 1/4" OVER A 10′ WIDTH AND REPLACE WITH 1 1/4" SURFACE MIX.

MIDWESTERN GAS TRANSMISSION CO.

END OVERLAY MATCH EXISTING
STA. 1897+50.00 LT. (S.B.)

END 3" OVERLAY
STA. 1894+50.00 LT. (S.B.)

SOD V

S 17° 28′ 04″ W

PROP. FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL. (SEE STD. DWG. S-SSMB-8 AND DETAIL SHEET 2AV)

END OVERLAY MATCH EXISTING
STA. 1887+00.00 LT. (N.B.)

D-13.5′

D-6.0′

30" G

LIVE LINE

MIDWESTERN GAS TRANSMISSION CO.

I-65 STORM DRAINAGE STRUCTURES				
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
33	769.50	754.15	764.50	753.85
34	772.35	769.52		769.40
35	773.10	770.12		770.00
36	773.55			770.50

NOTE: WHEN OVERLAYING BOTH NORTH AND SOUTHBOUND INSIDE SHOULDERS, NEW PAVEMENT WILL NEED TO BE FEATHERED NEAR ALL EXISTING INLETS LOCATED AT MEDIAN BARRIER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1885+00 TO STA.1898+00

SCALE: 1"=50′

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	11B
CONST.	2014	STP/HPP/NH-I-65-3(113)	11B

STA. 1891+29.38 I-65 (658+71.51 CD RD.)
#31-SD C.B. @ 61.75' LT.
(TIES TO EXIST. 18" PIPE)
78' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD,
D-PE-18(A&B)
D.A. = 0.12 AC.
Q50 = 0.35 CFS
Q100 = 1.01 CFS
W.S. ELEV. (50) = 769.64(C.B.)
W.S. ELEV. (100) = 769.64(C.B.)

STA. 1893+20.00
#42-SD C.B. @ 58.40' LT.
190' OF 18" RCP
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-42SD
D.A. = 0.05 AC.
Q50 = 0.37 CFS
Q100 = 0.39 CFS
W.S. ELEV. (50) = 772.43(C.B.)
W.S. ELEV. (100) = 772.43(C.B.)

STA. 1894+00.00
#31-SD C.B. @ 59.51' LT.
80' OF 18" RCP
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-31SD
D.A. = 0.03 AC.
Q50 = 0.20 CFS
Q100 = 0.22 CFS
W.S. ELEV. (50) = 773.17(C.B.)
W.S. ELEV. (100) = 773.17(C.B.)

STA. 1894+50.00
#31-SD C.B. @ 58.10' LT.
50' OF 18" RCP
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-31SD
D.A. = 0.05 AC.
Q50 = 0.34 CFS
Q100 = 0.36 CFS
W.S. ELEV. (50) = 773.64(C.B.)
W.S. ELEV. (100) = 773.64(C.B.)

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37

END 3" OVERLAY
STA. 1894+50.00 LT. (S.B.)

END OVERLAY MATCH EXISTING
STA. 1897+50.00 LT. (S.B.)

XCP-S31
STA. 1895+15.00, -61.09'(LT)
N 840037.1260
E 1801125.0190
ELEV 773.81
MAG SPIKE

OH WIRE
STA. 1885+22.63
LOW WIRE EL.775.25'
TEMP. 85° DEG.
2 POWER

OVERLAY EXISTING
SOUTHBOUND LANES

EXISTING GROUND
@ C.L.

EXISTING
NORTHBOUND LANES

XCP-S27
STA. 1894+66.37, 62.21'(RT)
N 840959.2410
E 1801232.2610
ELEV 773.46
MAG SPIKE

0.50% V DT.LT. 0.50% 0.50% V DT.LT.

EXIST. C.B.
STA. 1888+27.13
1.98' (LT)
TOP 761.87
INVERT 753.73

END OVERLAY MATCH EXISTING
STA. 1887+00.00 RT. (N.B.)

EXIST. C.B.
STA. 1891+29.48
1.16' (LT)
TOP 768.72
INVERT 756.70

STA. 1893+72
U.G.F.

STA. 1892+92
30" GAS

STA 1891+29.57
EXISTING 18"RCP
SKEW 89° 49' 48" LT
FLOWS LEFT
INLET 760.9842
OUTLET 751.9706

PROPOSED STORMSEWER

STR	PIPE SIZE	SLOPE
S1	18" RCP	-2.61%
S2	18" RCP	-0.62%
S3	18" RCP	-0.80%

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1885+00 TO STA.1898+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	12
CONST.	2014	STP/HPP/NH-I-65-3(113)	12

N

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S28	842081.9130	1801521.8240	766.93	1906+25.79	62.11' (RT)

1900 1905 1910

TREES / BRUSH

ZEAGER HARDWOOD COMPANY

CULTIVATED FIELD

CULTIVATED FIELD

53

RODRIGO LEDESMA,
JOSE LEDESMA,
& RODOLFO LEDESMA

N 81° 18' 20" W
320.89'

1898+07.39
140.67'

PRES. R.O.W. (C.A.) & FENCE

POT 650+00.00

650

STA. 650+00.00 C D ROAD =
49.35' LT STA. 1900+00.00 I-65
N 841503.8166
E 1801257.5539
(SEE SHEETS 34-39 FOR PROFILE)

N 14° 26' 40" E
2175.15'

WOVENWIRE

CONC. DITCH

INV-759.13

INV-757.12

INV-758.33

GRASS

4"CPP INV-768.99

4"CPP INV-765.20

4"CPP INV-763.07

4"CPP INV-766.09

PVMT JOINT

RUMBLE STRIP

EXIST. PIPE TO REMAIN

18" S.T.

15" S.T.

TOP-766.25
INV-758.92
INV-759.11
BOT-758.91

I-65 SOUTHBOUND (ASP.)

N 14° 28' 04" E

I-65 I-65 N & S MILE MARKER 0.4

18" CMP

TOP-770.41
INV-762.65
INV-762.51

TOP-766.22
INV-760.75

TOP-766.29
INV-760.93

I-65 NORTHBOUND (ASP.)

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 11

MATCH LINE STA. 1911+00.00 SEE SHEET NO. 12C

PGA TOUR PLAYER
KENNY PERRY'S
COUNTRY CREEK
EXIT 2

4"CPP INV-770.02

TOP-767.46
INV-765.12

4"CPP INV-766.70

CP-S28

XCP = S28
MAG SPIKE
N 842081.9130
E 1801521.8240
EL. 766.93

4"CPP INV-764.26

NO FEATURE

EXIT 2
HOSPITAL
NEXT RIGHT

GRASS

MERGE

4"CPP INV-766.09

KY ITS

ITS

GRASS

INV-773.19
15"CMP

CHAINLINK

EW INV-770.33
15"RCP

MH

STORM

CONC.

P (UG)

UGP CONC MKR

P (UG)

4"CPP INV-766.90

CONC.

ASP.

ITS

4"CPP INV-765.49

ITS

UGP CONC MKR

FLAG

GRASS

TREES / BRUSH

1-S-B (CONCESSION)

1-S-B (REST AREA)

CONC.

GRASS

CB

MH

EW

GRASS

CONC. DITCH

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA.1898+00 TO STA.1911+00

SCALE: 1"=50'

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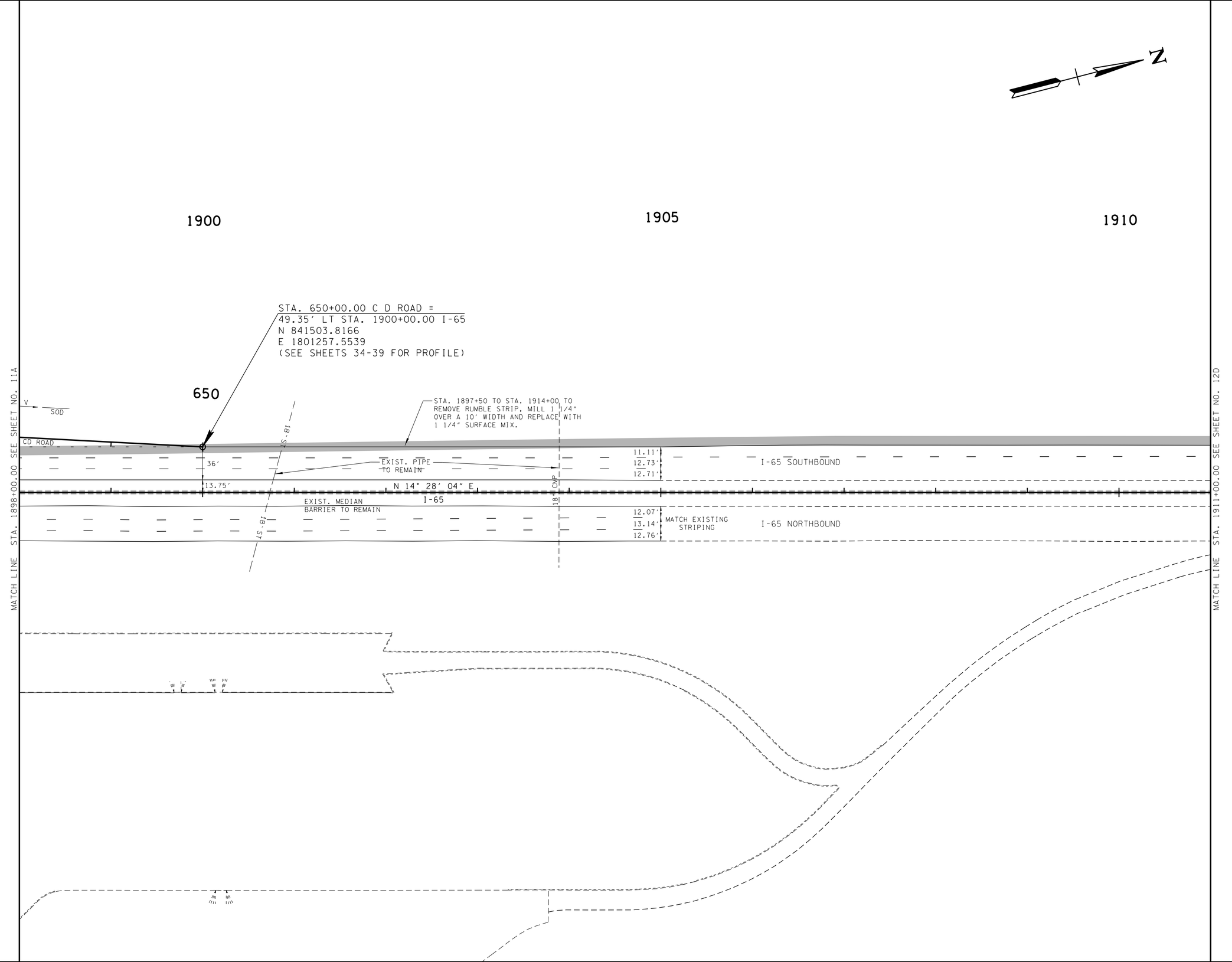
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	12A
CONST.	2014	STP/HPP/NH-I-65-3(113)	12A



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1898+00 TO STA.1911+00

SCALE: 1"=50'

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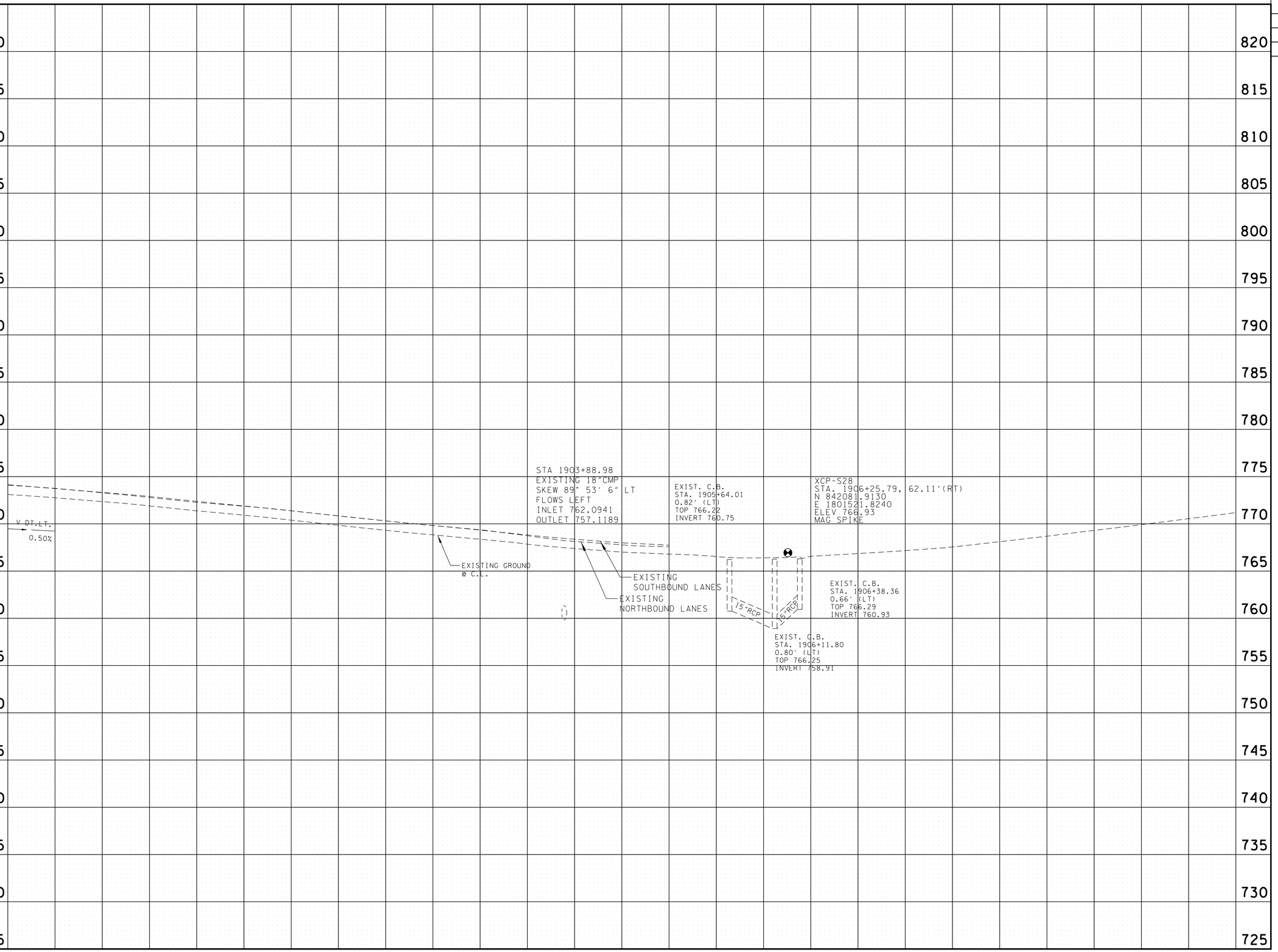
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	12B
CONST.	2014	STP/HPP/NH-I-65-3(113)	12B



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1898+00 TO STA.1911+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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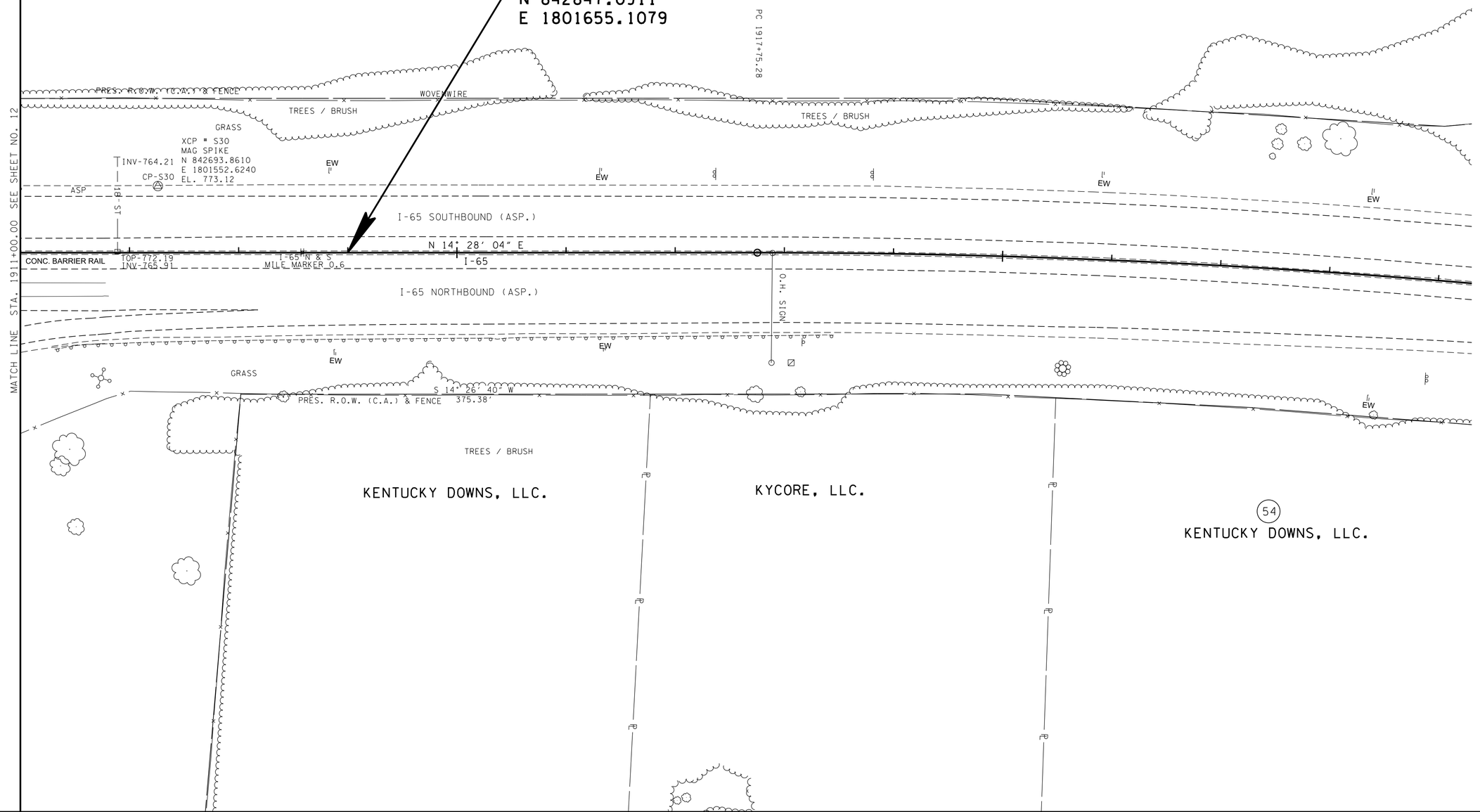
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	12C

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S30	842693.8610	1801552.6240	773.12	1912+26.03	60.95' (LT)



UNOFFICIAL SET
NOT FOR BIDDING

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

I-65
STA.1911+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	12D

N

1915

74003-3168-44

1920

END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

STA. 1897+50 TO STA. 1914+00 TO REMOVE RUMBLE STRIP, MILL 1 1/4" OVER A 10' WIDTH AND REPLACE WITH 1 1/4" SURFACE MIX.

HYDROBLAST EXISTING PAVEMENT ARROW

I-65 SOUTHBOUND

N 14° 28' 04" E

I-65

I-65 NORTHBOUND

MATCH LINE STA. 1911+00.00 SEE SHEET NO. 12A

MATCH LINE STA. 1922+00.00 SEE THIS SHEET

1925

1930

MATCH LINE STA. 1922+00.00 SEE THIS SHEET

I-65 SOUTHBOUND

HYDROBLAST EXISTING PAVEMENT ARROW

I-65 NORTHBOUND

UNOFFICIAL SET
NOT FOR BIDDING

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1911+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	12E

74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65

XCP-S30
STA. 1912+26.03, -60.95'(LT)
N 842693.8610
E 1801552.6240
ELEV 773.12
MAG SPIKE

EXISTING GROUND
@ C.L.

820 815 810 805 800 795 790 785 780 775 770 765 760 755 750 745 740 735 730 725

1911+00 1912+00 1913+00 1914+00 1915+00 1916+00 1917+00 1918+00 1919+00 1920+00 1921+00 1922+00 1923+00 1924+00

UNOFFICIAL SET
NOT FOR BIDDING

CONSTRUCTABILITY FIELD REVIEW

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 1911+00 TO E.O.P.
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	13
CONST.	2014	STP/HPP/NH-I-65-3(113)	13

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

305

310

PORTLAND CITY LIMITS

POND

WOODS

JOSEPH KESSLER, JR.
49

PATRICK L. VEJR AND
PEGGY V. BISHOP
2

PASTURE

N 9° 39' 35" E
771.50'

CORNER POST

303+11.71
150.97'

S 10° 4' 34" W
139.51'

304+07.59
49.62'

CORNER POST

GAS LINE MARKER TGP 1-1

GAS LINE MARKER TGP 8-1

S 36° 28' 14" E
1175.14'

GAS LINE MARKER TGP 1-2

S 36° 28' 14" E
408.41'

GAS LINE MARKER TGP 1-4

CITY OF PORTLAND P/T/C/F

AT&T P/T/C/F

INV-756.13

3'X 2'BOX CULV.

N 36° 30' 58" W

S.R. 109

POLE MOUNTED CONTROLLER TGP

CP-S2

INV-756.66

CITY OF PORTLAND

GAS LINE MARKER TGP 8-1

BARBED WIRE

GAS LINE MARKER TGP 1-2

GAS LINE MARKER TGP 1-1

GPS # 83-065-02
N 832461.8554
E 1806715.8226
EL. 761.15

N 36° 31' 9" W
1641.12'

GAS LINE MARKER TGP 1-4

N 12° 24' 59" E
73.07'

PRES. R.O.W.
308+02.00
49.91'

B

PROP. R.O.W.

308+50.00
105.00'

N 33° 14' 23" W
201.65'

A

310+50.00
117.00'

PASTURE

N 38° 04' 20" W
378.91'

PROP. R.O.W.

BARBED WIRE

INV-768.9

SEE SHEET NO. 14

37.5'

37.5'

TENNESSEE GAS PIPELINE CO. EASEMENT
(WIDTH VARIES)

75' TENNESSEE GAS PIPELINE CO. EASEMENT

100-3 Pipeline
30' C

PASTURE

POND

THURMAN NEAL GARRETT
1

PORTLAND CITY LIMITS

WOOD BARN

TRAIL

N 86° 38' 53" W
53.04'

308+50.00
90.00'

B

308+16.00
49.29'
PRES. R.O.W.

D=5.3°

D=4.5°

D=5.4°

D=5.2°

GAS LINE MARKER TGP 1-3

WOVEN WIRE

S 36° 28' 14" E
705.63'

P/T/C/F

BARBED WIRE N 36° 31' 9" W
844.05'

PASTURE

PROP. R.O.W.

N 41° 42' 38" W
519.31'

313+85.00
115.00'

A

N 55° 14' 56" W
387.26'

SC 312+85.48

IS 309+25.48

MATCH LINE
STA. 314+00.00

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S2	832461.8554	1806715.8226	761.15	304+93.26	18.53' (RT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMISSION NO. 19726
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
B.O.P. TO STA.314+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	13A
CONST.	2014	STP/HPP/NH-I-65-3(113)	13A

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

305

310

PORTLAND CITY LIMITS

30" C
24" C
26" C

100-3 Pipeline
30" C

SEE TDOT STD. DWG. T-M-3 FOR
DETAILS ON PAINT STRIPING

SOD

OUT.EL. 762.75
OUT.EL. 763.95

18" RCP

1320' TAPER

15'

MATCH LINE
STA. 314+00.00
SEE SHEET NO. 14A

N 36° 30' 58" W
S.R. 109

11.5'
11.1'
12'
12'

STA. 308+50.00
BEGIN 1320' MEDIAN TAPER

31 #42 GT. EL. 767.40
OUT.EL. 763.95

32 #42 GT. EL. 769.25
OUT.EL. 765.60

TRM (CL III)

LIMIT OF CONST.
1+40.00

STA. 314+05.00
12' PVT. DR.
26 LF OF 24"
S.D. REQD.

PORTLAND CITY LIMITS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
B.O.P. TO STA.314+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	13B
CONST.	2014	STP/HPP/NH-I-65-3(113)	13B

MATCH EXISTING | NORMAL CROWN | S.E. RUNOFF | FULL S.E. 0.068 FT/FT

STA. 308+00.00
END MATCH EXISTING
BEGIN NORMAL CROWN

STA. 309+25.48
END NORMAL CROWN
BEGIN S.E. RUNOFF

STA. 312+85.48
END S.E. RUNOFF
BEGIN FULL S.E.

VPC 313+25.00
EL. 770.98

OH WIRE
STA. 303+31.82
LOW WIRE EL.788.60'
TEMP. 70° DEG.
1 POWER

STP/HPP/NH-65-3(113)
BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
STA. 308+02.00

VPI 308+00.00
EL. 764.33

STA. 310+50.00
#42-S C.B.
42' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-42S,
D-PE-18(A&B)
D.A. = 0.08 AC.
Q50 = 1.19 CFS
Q100 = 1.30 CFS
W.S. ELEV. (50) = 767.47(C.B.)
W.S. ELEV. (100) = 767.48(C.B.)

(31) #42
(32) #42

EXISTING GROUND

XCP-S2
STA. 304+93.26, 18.53'(RT)
N 832461.8554
E 1806715.8226
ELEV 761.15
ALUM. DISK

EXIST. 3' X 2' BOX CULV.

STA 305+12.47
EXISTING 3' X 2' BOX CULVERT
SKEW 60°03'43" RT
FLOWS LEFT
INLET 756.66
OUTLET 756.13

STA. 301+76
30" GAS

STA. 302+26
24" GAS

STA. 302+83
26" GAS

STA. 307+70
30" GAS

STA. 309+69
30" GAS

STA. 312+00.00
#42-S C.B. @ 1.5' RT.
48' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-42S,
D-PE-18(A&B)
D.A. = 0.34 AC.
Q50 = 2.52 CFS
Q100 = 2.69 CFS
W.S. ELEV. (50) = 769.34(C.B.)
W.S. ELEV. (100) = 769.35(C.B.)

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

EXC. (UNCLASSIFIED)
76,624 C.Y.

COMMON 76,950 C.Y. INCL. 61,261 C.Y. MAINLINE COMMON (SHR. 20%)
7,658 C.Y. SIDEROAD COMMON (SHR. 20%)
8,031 C.Y. TOPSOIL FROM CUT AREAS

ROCK 0 C.Y. (SWELL 15%)

EXC.
EMB.

EMB. 97,981 C.Y. INCL. 95,708 C.Y. FROM MAINLINE
2,273 C.Y. FROM SIDE ROAD

76,950 C.Y. EXC. (COM.)
-8,031 C.Y. TOPSOIL FROM EXC. AREAS
68,919 C.Y. EXC. (COM.) AVAILABLE FOR BALANCE

$\frac{\text{EXC. (COM.)}}{1.20}$ + [EXC. (ROCK) x 1.15] VS. EMB.

$\frac{68,919}{1.20}$ + [0 C.Y. x 1.15] VS. 97,981 C.Y.

57,433 VS. 97,981 C.Y.

40,548 C.Y. (BORROW) X 1.20 = 48,658 C.Y. BORROW UNCLASSIFIED REQ'D.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

B.O.P. TO STA. 314+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	14
CONST.	2014	STP/HPP/NH-I-65-3(113)	14

REV. 09-29-14: ADDED TEMP. CONST. ESMT. FOR TRACT 2.

PATRICK L. VEJR AND
PEGGY V. BISHOP
(2)

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S1	833220.0714	1806172.7354	773.38	314+17.12	62.25' (RT)
S44	833564.8573	1805853.5940	774.87	318+58.35	141.71' (RT)

315

325

320

TRAIL

METAL BARN

1-S-BLOCK BLDG.

TEMP. CONST. ESMT.

CS 317+77.63

ST 321+37.63

N 38° 11' 6" W
82.72'

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 OLD S.R. 109 TIE
N 833632.8824
E 1805434.3376
(SEE SHEET 24 FOR PROFILE)

320+05.00
216.00'

S 52° 2' 43" W
68.22'

319+77.00
153.31'

PORTLAND CITY LIMITS

PROP. R.O.W.

N 55° 14' 56" W
387.26'

PASTURE

318+00.00
143.00'

N 62° 55' 10" W
167.83'

WOOD BARN

320+83.00
183.00'

321+65.00
157.00'

N 62° 55' 10" W
93.85'

N 51° 58' 47" E
30.02'

320+70.65
155.55'

N 62° 55' 10" W
91.28'

N 67° 47' 29" W
100.50'

326+50.00
115.00'

N 57° 07' 53" W
486.82'

PROP. R.O.W.

MATCH LINE STA. 327+00.00 SEE SHEET NO. 15

MATCH LINE STA. 314+00.00 SEE SHEET NO. 13

S 36° 28' 14" E
106.63'

315+25.05
0.00'

S 36° 28' 14" E
105.91'

316+27.06
25.92'

S.R. 109

N 62° 04' 51" W

N 36° 30' 58" W

TOP-769.39
INV-769.39

CP-S1

N 38° 04' 20" W
378.91'

N 36° 31' 9" W
844.05'

PROP. R.O.W.

N 45° 50' 40" W
150.13'

314+10.00
135.00'

GRASS

GPS = 83-065-01
N 833220.0714
E 1806172.7354
EL. 773.38

315+50.00
140.00'

CONC. S.W.

1-S-B (RES.)

P/T

WOOD

BLOCK BLDG.

CONNECTED TO CITY'S SAN. SEWER

316+18.86
125.80'

N 61° 47' 52" W
75.00'

S.R. 109
CURVE DC20
PI 315+39.36
N 833,291.5626
E 1,806,078.4555
Δs 25° 33' 53" (LT)
θs 5° 24' 00"
Δc 14° 45' 53" (LT)
Dc 3° 00' 00"
Rc 1,909.86
Lc 492.16
Ts 613.88
Ls 360.00
SE 0.068 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 360

BARBED WIRE

WOVEN WIRE

2-S-B (RES.)

CONNECTED TO CITY'S SAN. SEWER

CP-S44

XCP = S44
IRON PIN W/ CAP
N 833564.8573
E 1805853.5940
EL. 774.87

CLARIFY, ADD TOPSOIL & SEED

N 36° 31' 9" W
816.09'

PRES. R.O.W.

THURMAN NEAL GARRETT
(1)

PORTLAND CITY LIMITS

S.R. 109 TIE
CURVE DC24
PI 88+48.71
N 833,941.0042
E 1,805,597.6121
Δ 64° 26' 07" (LT)
D 12° 54' 16"
R 444.00
L 499.33
T 279.79
SE 0.037 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 105

N 27° 55' 09" E
PASTURE
N 36° 30' 58" W

S.R. 109

N 62° 04' 51" W

PC 85+68.92

N 68° 55' 25" W
251.79'

PROP. R.O.W.

326+00.00
105.00'

N 57° 30' 25" W
150.48'

323+50.00
135.00'

N 11° 40' 54" E
161.63'

PROP. R.O.W.

N 22° 28' 41" W
266.23'

88+50.00
70.00'

OLD S.R. 109 TIE

TOP-769.37
INV-763.86
INV-763.84

WOVEN WIRE

MATCH LINE - OLD S.R. 109 TIE
STA. 89+00.00
SEE SHEET NO. 14C

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.314+00 TO STA.327+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	14A
CONST.	2014	STP/HPP/NH-I-65-3(113)	14A

315

320

325

N

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 OLD S.R. 109 TIE
N 833632.8824
E 1805434.3376
(SEE SHEET 24 FOR PROFILE)

PORTLAND CITY LIMITS

SEE SHEET NO. 13A

MATCH LINE STA. 314+00.00

STA. 314+05.00
20' FLD. ENT.
38 LF OF 18" S.D. REQD.
LIMIT OF CONST.
1+20.00

STA. 319+24.00
20' FLD. ENT.
NO S.D. REQD.
LIMIT OF CONST.
1+60.00

STA. 320+00.00 (32.91' LT & RT)
BEGIN PAVEMENT TAPER

STA. 321+20.00 (48' LT & RT)
END PAVEMENT TAPER

720' TAPER

STA. 324+50.00 (36' LT)
BEGIN 720' TAPER

STA. 324+27.72 (6' RT)
BEGIN BAY TAPER

TRM (CL III)

MATCH LINE STA. 327+00.00 SEE SHEET NO. 15A

SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING

720' TAPER

1320' TAPER

120' TAPER

S.R. 109

GT. EL. 767.00
OUT.EL. 764.00

N 62° 04' 51" W

3' CONC

9'R 3' CONC

180' TAPER

STA. 324+50.00 (36' RT)
BEGIN 180' TAPER

STA. 326+30.00 (48' RT)
END 180' TAPER

SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING

TRM (CL III)

N 36° 30' 58" W

P.I. = 0+67
Δ = 7° RT.
R = 25'

P.I. = 0+93
Δ = 17° RT.
R = 25'

SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING

STA. 321+70.00 (24' LT & RT)
END 1320' MEDIAN TAPER

OUT.EL. 763.55

LIMIT OF CONST.
1+40.00

STA. 316+00.00
12" PVT. DR.
30 LF OF 18"
S.D. REQD.

OLD S.R. 109 TIE

TRM (CL III)

N 27° 55' 09" E

N 36° 30' 58" W

MATCH LINE - S.R. 109 TIE
STA. 89+00.00
SEE SHEET NO. 14D

PORTLAND CITY LIMITS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.314+00 TO STA.327+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	14B
CONST.	2014	STP/HPP/NH-I-65-3(113)	14B

FULL S.E. 0.068 FT/FT

S.E. RUNOFF

NORMAL CROWN

STA. 317+77.63
END FULL S.E.
BEGIN S.E. RUNOFF

STA. 321+37.63
END S.E. RUNOFF
BEGIN NORMAL CROWN

⊙ OH WIRE
STA. 315+15.56
LOW WIRE EL.795.64'
TEMP. 96 DEG.
3 POWER
1 TELEPHONE
1 CABLE
1 FIBER OPTIC

VPI 317+50.00
EL. 776.36

XCP-S1
STA. 314+17.12, 62.25'(RT)
N 833220.0714
E 1806172.7354
ELEV 773.38
ALUM. DISK

XCP-S44
STA. 318+58.35, 141.71'(RT)
N 833564.8573
E 1805853.5940
ELEV 774.87
ALUM. DISK

VPT 321+75.00
EL. 770.15

S.R. 109 STA. 322+52.72 =
OLD S.R. 109 TIE STA. 85+00.00

EXISTING GROUND

6" W 1.27%
T (UG) 2" G
6" FMS
V DT. RT.
V DT. LT.
0.50%
0.54%
-0.54%
-0.36%
-0.38%
0.82%
-0.52%
-0.50%
-3.20%
-2.50%
-3.00%
8" SA
2" GAS
STA. 314+72
STA. 314+62
UG T
STA. 314+03
6" FMS

MH
STA. 315+07.44
21.82' (RT)
TOP 771.16
INVERT 766.31

MH
STA. 318+31.70
121.73' (RT)
TOP 772.78
INVERT 765.18

VC = 650.00'
K = 311
V = 70 MPH

37
#38

STA. 321+85.00
#38-S C.B.
83' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-38S,
D-PE-18(A&B)
D.A. = 0.63 AC.
Q50 = 2.04 CFS
Q100 = 2.17 CFS
W.S. ELEV. (50) = 767.27(C.B.)
W.S. ELEV. (100) = 767.29(C.B.)

815 810 805 800 795 790 785 780 775 770 765 760 755 750 745 740 735 730 725 720

314+00 315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 314+00 TO STA. 327+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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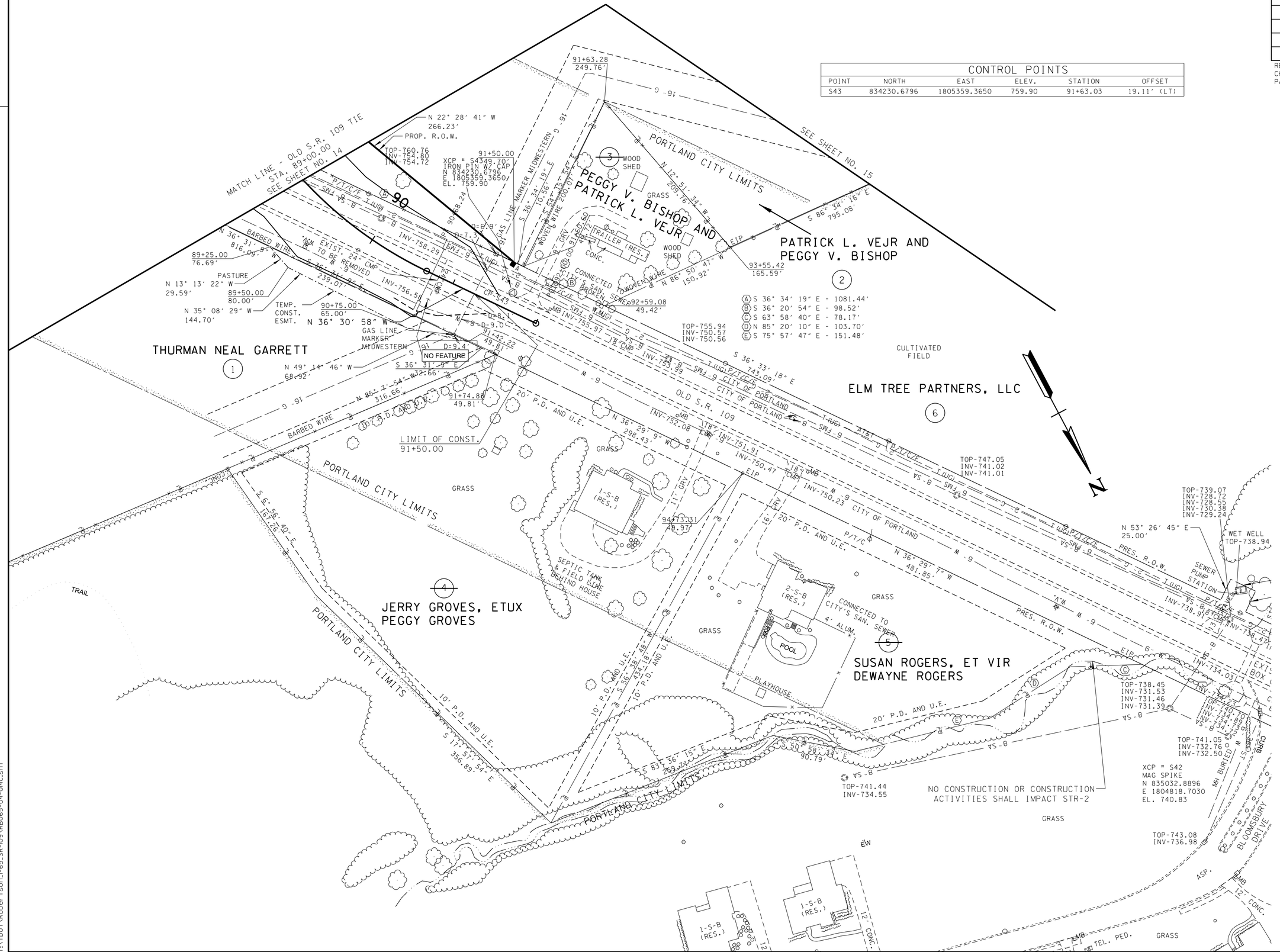
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	14C
CONST.	2014	STP/HPP/NH-I-65-3(113)	14C

REV. 04-09-14: CHANGED OWNER NAME FROM CHARLES HAYNES, TRUSTEE TO ELM TREE PARTNERS, LLC. FOR TRACT 6.

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S43	834230.6796	1805359.3650	759.90	91+63.03	19.11' (LT)



UNOFFICIAL SET
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SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109 TIE
STA.89+00 TO STA. 91+50

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	14D
CONST.	2014	STP/HPP/NH-I-65-3(113)	14D

MATCH LINE - OLD S.R. 109 TIE
STA. 89+00.00
SEE SHEET NO. 14A

SEE SHEET NO. 15A

PORTLAND CITY LIMITS

16' G

50' MIDWESTERN GAS TRANSMISSION CO. EASEMENT

TRM (CL III)

90°

IN. EL. 758.00

2' T
B=2'
D=1'

2' T

TRM (CL III)

CLASS "A" 2' T
B=2'
D=1'
(8' LENGTH)

N 36° 30' 58" W

OUT.EL. 757.00

50' PVMT. & SH. TAPER

24' R

11.0'
11.5'

OLD S.R. 109

LIMIT OF CONST.
91+50.00

PORTLAND CITY LIMITS

PORTLAND CITY LIMITS

STR-2

UNNAMED TRIBUTARY

NO CONSTRUCTION OR CONSTRUCTION ACTIVITIES SHALL IMPACT STR-2

N

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109 TIE
STA.89+00 TO STA. 91+50

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	15
CONST.	2014	STP/HPP/NH-I-65-3(113)	15

REV. 04-09-14: CHANGED OWNER NAME FROM "CHARLES HAYNES, TRUSTEE" TO "ELM TREE PARTNERS, LLC." FOR TRACT 6.

330 335 340

THE AREA OF WETLAND PAST THE SLOPE SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND RESEEDED AS SOON AS POSSIBLE FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES.

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

PATRICK L. VEJR AND PEGGY V. BISHOP (2)

REBECCA V. JOHNSON (7)

ELM TREE PARTNERS, LLC. (6)

WETLAND AREA DO NOT DISTURB

POND

WOODS

PASTURE

CULTIVATED FIELD

CULTIVATED FIELD

N 67° 47' 29" W 100.50'

327+50.00 125.00'

N 63° 7' 21" W 550.09'

PROP. R.O.W.

WTL-1

333+00.00 135.00'

N 56° 22' 13" W 150.75'

334+50.00 120.00'

335+33.86 119.48'

N 61° 43' 32" W 83.86'

335+75.39 0.00'

N 8° 45' 1" E 126.49'

N 61° 43' 32" W 581.15'

PERM. WETLAND IMPACT

N 77° 37' 46" W 436.41'

WTL-2

339+39.56 0.00'

N 77° 37' 46" W 344.67'

N 8° 45' 1" E 97.81'

336+07.55 92.42'

S 86° 34' 16" E 53.10'

335+59.18 114.40'

337+50.00 110.00'

N 63° 24' 10" W 190.87'

N 58° 54' 3" W 450.69'

PROP. R.O.W.

S.R. 109

N 62° 04' 51" W

N 63° 24' 10" W 459.30'

N 60° 46' 17" W 350.09'

327+50.00 117.00'

N 57° 30' 25" W 150.48'

331+00.00 125.00'

R = 8,45,1" 493.71'

D=4.9

D=4.8

D=4.7

D=4.5

D=4.5

D=4.6

D=4.6

16" G

50' MIDWESTERN GAS TRANSMISSION CO. EASEMENT

PORTLAND CITY LIMITS

S 86° 34' 16" E 795.08'

SEE SHEET NO. 14C

MATCH LINE STA. 327+00.00 SEE SHEET NO. 14

MATCH LINE STA. 340+00.00 SEE SHEET NO. 16

STR-3

LEGEND	WTL-1 WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.175 AC.
	VOLUME OF PERMANENT IMPACT = 282.6 C.Y.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 107296 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.327+00 TO STA.340+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	15A
CONST.	2014	STP/HPP/NH-I-65-3(113)	15A

330

335

340

THE AREA OF WETLAND PAST THE SLOPE SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND RESEEDED AS SOON AS POSSIBLE FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES.

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

POND

N

720' TAPER

STA. 328+50.00
20' FLD. ENT.
46 LF OF 24"
S.D. REQD.

LIMIT OF CONST.
1+60.00

HIGH VISIBILITY FENCE

STA. 330+27.72 (24' LT)
END BAY TAPER

STA. 331+70.04 (48' LT)
END TAPER

WTL-1

WETLAND AREA
DO NOT DISTURB

STA. 336+38.85
20' FLD. ENT.
NO S.D. REQD.

LIMIT OF CONST.
1+30.00

HIGH VISIBILITY FENCE

STR-3

TRM (CL III) V

SOD

SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING

15'R

720' TAPER

24'

20:1

30" RCP

OUT.EL. 743.70

15'x18' CLASS "B" APRON

S.R. 109

N 62° 04' 51" W

38 #38 GT. EL. 751.75
IN. EL. 744.51
OUT.EL. 744.30

50'R

5'R

336+18.86

336+58.86

18" RCP

IN. EL. 746.01

39 12D

40 12D

OUT.EL. 744.98

D=4.8'

D=4.9'

D=5.0'

D=4.7'

D=4.5'

D=4.6'

16' C

24' 3' CONC

IN. EL. 747.00

CLASS "A"
B=4'
D=2'

BERM @ 749.25

STA. 328+50.00
20' FLD. ENT.
36 LF OF 24"
S.D. REQD.

LIMIT OF CONST.
1+23.00

STA. 336+38.85
20' FLD. ENT.
32 LF OF 18"
S.D. REQD.

LIMIT OF CONST.
1+20.00

50' MIDWESTERN GAS TRANSMISSION CO. EASEMENT

PORTLAND CITY LIMITS

SEE SHEET NO. 14D

MATCH LINE STA. 327+00.00 SEE SHEET NO. 14A

MATCH LINE STA. 340+00.00 SEE SHEET NO. 16A

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.327+00 TO STA.340+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	15B
CONST.	2014	STP/HPP/NH-I-65-3(113)	15B

NORMAL CROWN

-5.50%
-3.00%
V DT. RT.
-1.50%
-4.50%
V DT. RT.
-3.00%
-3.50%
V DT. LT.
-3.50%
-2.00%
-1.00%
V DT. RT.
-1.50%
-1.50%
-3.66%
0.58%
0.50%
V DT. RT.
-1.33%
0.50%
V DT. LT.
0.50%
-2.25%
-1.46%
V DT. RT.
-2.50%
-3.00%

38
*38

39
*120

40
*120

EXISTING GROUND

16" G
16" G
16" G

STA. 338+01
16" GAS

STA. 332+36.00
78' OF 30" RCP
SKEW 74°40'20" RT.
ENDWALLS REQD. : TYPE "U" (RT.)(USE 36")
STD. DWG. NOS. D-PB-1,D-PE-36(A&B)
D.A. = 9.70 AC.
Q50 = 19.56 CFS
Q100 = 20.59 CFS
W.S. ELEV. (50) = 749.00
W.S. ELEV. (100) = 749.08

STA. 332+36.00
*38-RB C.B.
92' OF 30" RCP
SKEW 74°40'20" RT.
ENDWALLS REQD. : TYPE "U" (LT.)(USE 36")
STD. DWG. NOS. D-PB-1,D-CB-38RB,
D-PE-36(A&B)
D.A. = 10.83 AC.
Q50 = 23.11 CFS
Q100 = 24.72 CFS
W.S. ELEV. (50) = 752.30(C.B.)
W.S. ELEV. (100) = 752.32(C.B.)

795 790 785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700

327+00 328+00 329+00 330+00 331+00 332+00 333+00 334+00 335+00 336+00 337+00 338+00 339+00 340+00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 327+00 TO STA. 340+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	16
CONST.	2014	STP/HPP/NH-I-65-3(113)	16

REV. 04-09-14: CHANGED OWNER NAME FROM "CHARLES HAYNES, TRUSTEE" TO "ELM TREE PARTNERS, LLC." FOR TRACT 6.

XCP = S12
IRON PIN W/ CAP
N 834108.1081
E 1802968.6997
EL. 735.20

RONALD A. BOISVERT ETUX
SHIRLEY B. BOISVERT

ROBERT L. NICHOLS ETUX
DONNA M. NICHOLS

JOSEPH K. DOYLE

GREGORY A. SHREEVE

MELVIN STEWART, ETUX BRENDA K. STEWART

PORTLAND CITY LIMITS

OPEN FIELD

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 26-27 FOR PROFILE)

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S12	834108.1081	1802968.6997	735.20	346+53.89	734.56' (LT)

THE AREA OF WETLAND PAST THE SLOPE SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND RESEEDED AS SOON AS POSSIBLE FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES.

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

REBECCA V. JOHNSON (7)

N 51° 57' 29" E

N 27° 55' 09" E

N 62° 04' 51" W

N 40° 06' 11" W

N 18° 02' 31" W

N 39° 23' 17" W

LOU VERNE BOND (9)

ELM TREE PARTNERS, LLC. (6)

ROBERT E. FREEMAN, ETUX BEVERLY B. FREEMAN (8)

GAS LINE MARKER MIDWESTERN

UNNAMED TRIBUTARY

CULTIVATED FIELD

PASTURE

PERM. WETLAND IMPACT

PIPE EXPOSED

LEGEND	WTL-2 WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.208 AC.
	VOLUME OF PERMANENT IMPACT = 335.6 C.Y.

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

MATCH LINE STA. 340+00.00 SEE SHEET NO. 15

MATCH LINE STA. 353+00.00 SEE SHEET NO. 17

SEE SHEET 16A FOR ALIGNMENT CURVE DATA.

SEE SHEET 16C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.340+00 TO STA.353+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	16A
CONST.	2014	STP/HPP/NH-I-65-3(113)	16A

Live stake species for stream banks

ESTIMATED TREE QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	71	EACH
802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	71	EACH
802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	71	EACH
802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	71	EACH
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	71	EACH
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	71	EACH
TOTAL		426	

Bare root seedlings for stream:

ESTIMATED TREE QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-12.12	CORNUS FLORIDA (FLOWERING DOGWOOD SEEDLNG B.R.)	25	EACH
802-12.44	ULMUS AMERICANA (AMERICAN ELM SEEDLNG B.R.)	25	EACH
802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	25	EACH
802-12.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM SEEDLNG B.R.)	25	EACH
802-12.09	CARYA OVATA (SHAGBARK HICKORY SEEDLNG B.R.)	25	EACH
802-12.29	QUERCUS ALBA (WHITE OAK SEEDLNG B.R.)	0	EACH
TOTAL		125	

Trees lsited in order of dominance. The first five should be used for mitigation;if any of these are not available, the last one on the list can be substituted.

Tree and shrub species for stream:

ESTIMATED TREE QUANTITIES

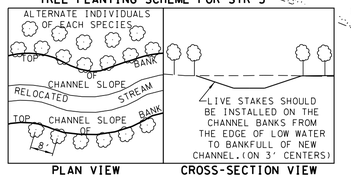
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-11.29	QUERCUS ALBA (WHITE OAK 2-5FT CNTNR GRWN)	25	EACH
802-11.09	CARYA OVATA (SHAGBARK HICKORY 2-5FT CNTNR GRWN)	25	EACH
802-11.28	PRUNUS SEROTINA (BLACK CHERRY 2-5FT CNTNR GRWN)	25	EACH
802-11.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM 2-5FT CNTNR GRWN)	25	EACH
802-11.31	QUERCUS FALCATA (SOUTHERN RED OAK 2-5FT CNTNR GRWN)	25	EACH
802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	0	EACH
802-11.10	CARYA TOMENTOSA (MOCKERNUT HICKORY 2-5FT CNTNR GRWN)	0	EACH
TOTAL		125	

Trees listed in order of dominance. The first five should be used for mitigation;if any of these are not available, either of the last two on the list can be substituted.

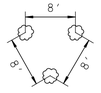
PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

THE AREA OF WETLAND PAST THE SLOPE SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND RESEEDED AS SOON AS POSSIBLE FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES.

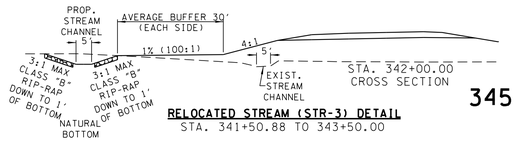
TREE PLANTING SCHEME FOR STR-3



PLAN VIEW CROSS-SECTION VIEW



PLANTING DETAIL



RELOCATED STREAM (STR-3) DETAIL
STA. 341+50.88 TO 343+50.00

TGT ROAD
CURVE DC11
PI 51+82.09
N 834,320.1742
E 1,802,757.1263
Δ 2° 03′ 40″ (RT)
D 1° 30′ 00″
R 3,819.72
L 137.40
T 68.71
SE EXISTING
DESIGN SPEED N/A
TRANS. LENGTH N/A

TGT ROAD
CURVE DC12
PI 54+01.62
N 834,493.0762
E 1,802,621.8361
Δ 1° 20′ 45″ (LT)
D 1° 00′ 00″
R 5,729.58
L 134.59
T 67.30
SE EXISTING
DESIGN SPEED N/A
TRANS. LENGTH N/A

TGT ROAD TIE
CURVE DC507
PI 12+55.33
N 834,640.3896
E 1,802,830.7644
Δ 24° 02′ 20″ (LT)
D 8° 00′ 00″
R 716.20
L 300.49
T 152.49
SE 0.039 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 135

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 26-27 FOR PROFILE)

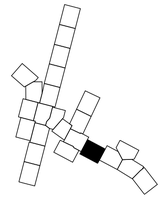
STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

MATCH LINE - TGT ROAD STA. 55+74.35

MATCH LINE STA. 340+00.00 SEE SHEET NO. 15A

MATCH LINE STA. 353+00.00 SEE SHEET NO. 17A

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.340+00 TO STA.353+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	16B
CONST.	2014	STP/HPP/NH-I-65-3(113)	16B

NORMAL CROWN

S.R. 109 STA. 346+99.99 = TGT TIE ROAD STA. 17+11.07

VC = 400.00'
K = 169
V = 65 MPH

VPC 347+11.06
EL. 733.13

VPT 351+11.06
EL. 732.01

VPI 349+11.06
EL. 730.21

STA. 348+33.24
30" GAS

STA. 349+24
30" GAS

V DT. RT. -2.50%
-2.00%
-2.80%
-1.53%
V DT. RT. -1.60%
4' F.B. DT. RT. -0.20%
-0.60%
-0.50%
5' F.B. DT. LT. -1.53%
16" G
EXISTING GROUND
-0.50%
-0.70%
0.50%
4' F.B. DT. RT. -1.10%
-1.00%
-1.00%
PROP. 18" RCP -3.04%
-1.46%
0.90%
PROP. 18" RCP -1.92% STUB INTO BOX
-6.50%
-18.77%
UNNAMED TRIBUTARY
-7.53%
2.00%
0.50%
4' F.B. 2.00%
2.12%
4' F.B. DT. LT.
PROP. 18" RCP -4.30% STUB INTO BOX
-9.90%
DT. RT. 0.50%
0.50%
4' F.B. DT. RT.
0.50%
0.50%
4' F.B. DT. LT.

41 #39
42 #38
43 #42
44 #42
45 #39

STA. 343+50.00
#39-S C.B. @ 2.20' LT.
88' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-39S,
D-PE-18(A&B)
D.A. = 1.23 AC.
Q50 = 3.34 CFS
Q100 = 3.63 CFS
W.S. ELEV. (50) = 736.51(C.B.)
W.S. ELEV. (100) = 736.53(C.B.)

STA. 347+00.00
#38-S C.B. @ 9.89' LT.
128' OF 18" RCP
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-38S
D.A. = 0.38 AC.
Q50 = 2.08 CFS
Q100 = 2.23 CFS
W.S. ELEV. (50) = 732.30(C.B.)
W.S. ELEV. (100) = 732.31(C.B.)

STA. 348+30.00
#42-S C.B. @ 14.02' LT.
26' OF 18" RCP STUBBED INTO
BOX @ STA. 348+57.00
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-42S
D.A. = 0.15 AC.
Q50 = 1.11 CFS
Q100 = 1.19 CFS
W.S. ELEV. (50) = 731.51(C.B.)
W.S. ELEV. (100) = 731.51(C.B.)

FOR PROPOSED TRENCH DRAIN INFO & DETAILS SEE CROSS SECTIONS AND STD. DWG. D-TD-1
PROP. TRENCH DRAIN

STA. 348+79.00
#42-S C.B. @ 14.10' LT.
5' OF 18" RCP STUBBED INTO
BOX @ STA. 348+73.00
SKEW 0°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-42S,
D.A. = 0.26 AC.
Q50 = 0.70 CFS
Q100 = 0.76 CFS
W.S. ELEV. (50) = 728.38(C.B.)
W.S. ELEV. (100) = 728.56(C.B.)

STA. 351+00.00
#39-S C.B.
80' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-39S,
D-PE-18(A&B)
D.A. = 0.89 AC.
Q50 = 3.59 CFS
Q100 = 3.87 CFS
W.S. ELEV. (50) = 729.50(C.B.)
W.S. ELEV. (100) = 729.52(C.B.)

STATION	348+65
DRAINAGE AREA	
DESIGN DISCHARGE (100 YR)	
100 YR BACKWATER	
100 YR VELOCITY	
500 YR DISCHARGE	
INLET ELEVATION	
OUTLET ELEVATION	
APPROACH OVERTOPPING ELEVATION	
STANDARD DRAWING NUMBERS	
CLASS "A" CONCRETE	
STEEL BAR REINFORCING	
FOUNDATION FILL MATERIAL	

1 @ 16'X 10',75° SKEW CONCRETE BOX CULVERT
SKEWED 80° RT. TO CENTERLINE STATION 348+65.00
0.94 SQ. MI.
597 CFS
0 FT AT EL 725.87
5.07 FPS
808 CFS AT EL 727.22
718.20
717.50
731.51
STD-17-63,& STD-17-20
313.5 C.Y.
61452.5 LB.
111 C.Y.

785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690

340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102796
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 340+00 TO STA. 353+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	16C
CONST.	2014	STP/HPP/NH-I-65-3(113)	16C

REV. 04-09-14: CHANGED OWNER NAME FROM "CHARLES HAYNES, TRUSTEE" TO "ELM TREE PARTNERS, LLC." FOR TRACT 6.

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S12	834108.1081	1802968.6997	735.20	346+53.89	734.56' (LT)

XCP = S12
IRON PIN W/ CAP
N 834108.1081
E 1802968.6997
EL. 735.20

PRES. R.O.W.
CP-S12
N 39° 54' 0" W
465.41'

RONALD A. BOISVERT ETUX
SHIRLEY B. BOISVERT

ROBERT L. NICHOLS ETUX
DONNA M. NICHOLS

JOSEPH K. DOYLE

GREGORY A. SHREEVE

MELVIN STEWART, ETUX BRENDA K. STEWART

NOTE #1
20' PUBLIC DRAINAGE AND UTILITY EASEMENT
NOTE #2
10' PUBLIC DRAINAGE AND UTILITY EASEMENT

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 26-27 FOR PROFILE)

Ⓐ S 39° 49' 18" E - 144.72'
Ⓑ 49+65.08 - 25.44' (TGT ROAD)
Ⓒ S 61° 12' 34" W - 299.17'
Ⓓ S 39° 48' 47" E - 118.20'
Ⓔ S 61° 54' 3" W - 379.82'
Ⓕ S 39° 49' 3" E - 59.21'
Ⓗ N 39° 54' 0" W - 66.28'
Ⓘ 51+46.26 - 24.86' (TGT ROAD)
Ⓙ S 40° 38' 3" E - 41.06'
Ⓚ N 40° 6' 11" W - 35.60'
Ⓛ S 38° 2' 51" E - 100.72'
Ⓝ N 62° 30' 20" W - 73.41'
Ⓞ S 27° 55' 09" W - 36.06'
Ⓟ N 73° 14' 08" W - 51.98'
Ⓠ N 29° 43' 10" E - 67.82'

REBECCA V. JOHNSON
7

340
345
350
15
9
LOU VERNE BOND
6
ELM TREE PARTNERS, LLC.
8
ROBERT E. FREEMAN, ETUX BEVERLY B. FREEMAN

MATCH LINE STA. 340+00.00 SEE SHEET NO. 15
MATCH LINE STA. 353+00.00 SEE SHEET NO. 17
MATCH LINE - TGT ROAD STA. 55+74.35

S.R. 109
TGT ROAD TIE
TEMP. CONST. ESMT.
PROP. R.O.W.
MIDWESTERN GAS TRANSMISSION CO. EASEMENT

Ⓡ N 27° 55' 09" E - 34.79'
Ⓢ N 62° 04' 51" W - 69.44'
Ⓣ N 27° 55' 09" E - 42.00'
Ⓤ N 56° 22' 13" W - 5.97'

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

S.R. 109
STA.340+00 TO STA.353+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17
CONST.	2014	STP/HPP/NH-I-65-3(113)	17

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.

REV. 02-05-14: CHANGED PROPERTY OWNER NAME FOR TRACT 20 FROM "A. C. BRYANT" TO "L & W PROPERTIES GROUP" & FOR TRACT 27 FROM "LYNNE S. MOSELY" TO "JOHN Z. WILKINSON & LUCAS T. WILKINSON". REMOVED STRUCTURES FROM TRACT 20 BASED ON FIELD OBSERVATION.

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

REV. 07-10-14: ADDED SEPTIC SYSTEM FIELD LINES TRACT 59.

REV. 08-26-14: ADDED NOTE "CONTRACTOR NOT TO DISTURB GUTTER AND BASEMENT DRAINS LEFT OF APPROXIMATE STATION 1127+00".

NOTE: CONTRACTOR NOT TO DISTURB GUTTER AND BASEMENT DRAINS LEFT OF APPROXIMATE STATION 1127+00.

SEE SHEET 17A FOR ALIGNMENT CURVE DATA.

SEE SHEET 17C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

MELVIN STEWART, ETUX BRENDA K. STEWART
JAMES PAUL STEWART, ETUX MONA STEWART
HOWARD HENSON, ETUX NELLIE HENSON
ANTONIO R. FITTS
ROBERT ALLISON, ETUX PATTI ALLISON
GERALDINE GROVES
KYLA MORALES
DAVID A. GRAVES, SR. AND DAVID A GRAVES, JR.
GARY T. FERGUSON, ETUX JANA FERGUSON
JAMES H. CUMMINGS JR., ETUX TRESA L. CUMMINGS
JAMES H. CUMMINGS
LINDA B. WATKINS, ETAL
CLYDE E. WATKINS
L & W PROPERTIES GROUP
DANNY STEVEN KEY
DANNY STEVEN KEY
SANDRA FREEDLE THOMERSON, VIVIAN FREEDLE HARRIS, AND GLENDA FREEDLE PIKE
LOU VERNE BOND
ROBERT E. FREEMAN, ETUX BEVERLY B. FREEMAN
JOHN Z. WILKINSON & LUCAS T. WILKINSON
MICHAEL E. LOGAN, ETUX LISA D. LOGAN
KTR NASHVILLE, LLC

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815
STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S10	835524.3821	1801875.0927	740.15	362+83.35	4.81' (RT)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.353+00 TO STA.366+00
SCALE: 1"=50'

MATCH LINE STA. 353+00.00 SEE SHEET NO. 16
MATCH LINE STA. 366+00.00 SEE SHEET NO. 18
MATCH LINE STA. 1126+50.00 SEE SHEET NO. 17D
MATCH LINE STA. 1136+00.00 SEE SHEET NO. 17G

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17A
CONST.	2014	STP/HPP/NH-I-65-3(113)	17A

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

PORTLAND CITY LIMITS

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 17E

N 39° 23' 17" W

PT 58+20.72

N 40° 20' 57" W

PC 57+24.61

PC 61+88.42

PT 63+57.58

TGT ROAD
CURVE DC13
PI 57+72.67
N 834,779.8508
E 1,802,386.3777
Δ 0° 57' 40" (LT)
D 1° 00' 00"
R 5,729.58
L 96.11
T 48.05
SE EXISTING
DESIGN SPEED N/A
TRANS. LENGTH N/A

TGT ROAD
CURVE DC14
PI 62+73.05
N 835,161.1995
E 1,802,062.4091
Δ 4° 43' 36" (RT)
D 2° 47' 39"
R 2,050.56
L 169.17
T 84.63
SE EXISTING
DESIGN SPEED N/A
TRANS. LENGTH N/A

TGT ROAD N 35° 37' 20" W

355 360 365 1130

60 65

BEGIN CURB. 4" HEIGHT
4" MIN. - 6" MAX.
4' LANDING (MIN.)
GRASS/SHLD
SIDEWALK
A-A
LANDING
RAMP
FLARED SIDE
GRASS STRIP
6" CURB
B-B
4" MIN. - 6" MAX.
SIDEWALK END AT RAMP DETAIL
SEE STD. DWG. RP-H-4, RP-H-7, AND RP-H-8 FOR RAMP DETAILS.

385' PAVEMENT TAPER (LT & RT)
STA. 1126+75 (19' RT)
END 385' PAVEMENT TAPER
BEGIN 180' PAVEMENT TAPER
STA. 1127+13.88
12' PVT. DR.
24 LF OF 18" S.D. REQD.
LIMIT OF CONST. 0+70.00
STA. 1127+35.91
12' PVT. DR.
22 LF OF 18" S.D. REQD.
LIMIT OF CONST. 0+70.00
180' PAVEMENT TAPER
STA. 1126+75 (7' RT)
BEGIN BAY TAPER
STA. 1126+75 (19' LT)
END PAVEMENT TAPER
STA. 1127+13.80
12' PVT. DR.
26 LF OF 18" S.D. REQD.
LIMIT OF CONST. 0+70.00
PORTLAND CITY LIMITS
SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING
STA. 1128+55 (31' RT)
END 180' PAVEMENT TAPER
N 25° 19' 17" E
P.I. = 0+51
Δ = 16° RT.
R = 25'
LIMIT OF CONST. 0+70.00
STA. 1129+35.00
12' PVT. DR.
24 LF OF 18" S.D. REQD.
STA. 1129+35 (7' LT)
END BAY TAPER
STA. 64+12.86
25' PVT. DR.
NO S.D. REQD.
LIMIT OF CONST. 0+50.00
P.I. = 0+30
Δ = 29° LT.
R = 25'
64+40.65
20.85'
N 835309.6606
E 1801981.6806
P.I. = 0+50
Δ = 12° RT.
R = 25'
LIMIT OF CONST. 0+70.00
STA. 1130+80.00
12' PVT. DR.
30 LF OF 18" S.D. REQD.
TRM (CL III)
SOD
BERM
SOD POLE B
B=4' (PROP.)
D=1'
OUT.EL. 734.90
CLASS "A"
B=4'
D=2'
(5' LENGTH)
POLE C (PROP.)
362+96
IN. EL. 735.50
SOD B=4' D=2'
SOD B=4' D=2'
TRM (CL III) B=4' D=1'
2' RAISED CONC. MEDIAN
10' RAISED MEDIAN
S.R. 109
N 62° 04' 51" W
SOD B=4' D=2'
TRM (CL III) B=4' D=1'
BEGIN PAVEMENT TAPER (48' LT & RT)
STA. 353+30.00
LIMIT OF CONST. 1+20.00
STA. 357+60.00
20' FLD. ENT.
40 LF OF 30" S.D. REQD.
STA. 359+35.00 (LT & RT)
END PAVEMENT TAPER
STA. 359+35 (1' RT)
END BAY TAPER
STA. 354+30.00 (46.18' RT)
BEGIN 250' PAVEMENT TAPER
STA. 355+57.86 (19.86' RT)
BEGIN BAY TAPER
STA. 356+80.00 (53.64' RT)
END 250' PAVEMENT TAPER
250' TAPER
SOD B=4' D=2'
TRM (CL III) B=4' D=2'
OUT. EL. 732.60
POLE A (PROP.)
CLASS "B" B=4' D=2' (10' LENGTH)
IN. EL. 736.00
POLE D (PROP.)
HANDICAP RAMPS ARE TYPE 1 UNLESS NOTED OTHERWISE
STA. 1133+85.00
20' FLD. ENT.
42 LF OF 18" S.D. REQD.
LIMIT OF CONST. 1+10.00
STA. 1134+53.45
25' PVT. DR.
44 LF OF 18" S.D. REQD.
LIMIT OF CONST. 0+90.00
S.R. 41 (U.S. 31W)
N 25° 19' 17" E
1135
MATCH LINE STA. 353+00.00 SEE SHEET NO. 16A
MATCH LINE STA. 366+00.00 SEE SHEET NO. 18A
MATCH LINE STA. 1136+00.00 SEE SHEET NO. 17H

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

SR-41 LT. STORM DRAINAGE STRUCTURES					
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
93	740.00				736.20
94	739.75				735.80
SR-41 RT. STORM DRAINAGE STRUCTURES					
113	743.38	739.52			739.40
114	743.38	739.52			739.40
115	741.85	734.83	735.93	736.13	734.50
115A	742.00	736.80			736.60
116	741.45	733.08		735.50	732.75
SR-109 STORM DRAINAGE STRUCTURES					
68A	742.40	737.65			737.30
68B	742.85	739.00			738.85
68	743.30	739.50			739.35
67A	744.00	740.15			740.00
67	744.65	740.90			740.75

1215 [1165]
633 [676] S.R. 41 (US-31W) 582 [489]
1171 [895] 1337 [1199]
2236 [2030] S.R. 109 2580 [2532]
1065 [1135] 1243 [1333]
1031 [1144] S.R. 41 (US-31W) 992 [851]
2034 DHV
PM [AM]

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.353+00 TO STA.366+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17B
CONST.	2014	STP/HPP/NH-I-65-3(113)	17B

NORMAL CROWN

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST.
STA. 362+36.28 S.R. 109

OH WIRE
STA. 361+83.13
LOW WIRE EL.763.85'
TEMP. 96° DEG.
4 POWER
1 CABLE

S.R. 41 (U.S. 31W) STA. 1132+15.02 =
S.R. 109 STA. 362+36.28

OH WIRE
STA. 363+02.74
LOW WIRE EL.761.91'
TEMP. 96° DEG.
7 BRACE
1 TELEPHONE
2 CABLE

VPC 366+00.00
EL. 745.67

XCP-S10
STA. 362+83.35, 4.81'(RT)
N 835524.3821
E 1801875.0927
ELEV 740.15
IRON PIN W/ CAP

ELEV. 739.69
STA. 359+35.00 (AHEAD)
STA. 359+35.00 (BACK)
ELEV. 739.43

EXISTING GROUND

4' F.B. DT. RT.
4' F.B. DT. LT.
V DT. RT.

STA. 361+89
4" GAS

STA. 362+02
6" WATER

STA. 362+12
U.G.F.

STA. 362+76
12" WATER

STA. 362+76
U.G.F.

STA. 365+44
6" WATER

NOTE: PROFILE ELEVATION CHANGE IS DUE TO LOCATION OF GRADE POINT CHANGING FROM INSIDE EDGE OF PAVEMENT TO CENTERLINE. THIS CHANGE IS THE RESULT OF CHANGING FROM A 4-LANE DIVIDED HIGHWAY TYPICAL SECTION TO A RAISED MEDIAN TYPICAL SECTION. SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR MORE DETAILS.

PROPOSED STORMSEWER

STR	PIPE SIZE	SLOPE
S1	18" RCP	-2.18%
S2	18" RCP	-0.76%
S3	18" RCP	-0.67%
S4	18" RCP	-0.84%
S5	18" RCP	-0.67%

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 353+00 TO STA. 366+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17C
CONST.	2014	STP/HPP/NH-I-65-3(113)	17C

REV. 02-05-14: UPDATED BEARINGS AND DISTANCES FOR TRACT 59.

REV. 02-05-14: CHANGED PROPERTY OWNER NAME FOR TRACT 20 FROM "A. C. BRYANT" TO "L & W PROPERTIES GROUP" & FOR TRACT 27 FROM "LYNNE S. MOSELY" TO "JOHN Z. WILKINSON & LUCAS T. WILKINSON".

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

MELVIN STEWART, ETUX BRENDA K. STEWART
JAMES PAUL STEWART, ETUX MONA STEWART
HOWARD HENSON, ETUX NELLIE HENSON
ANTONIO R. FITTS
ROBERT ALLISON, ETUX PATTI ALLISON
GERALDINE GROVES
KYLA MORALES
DAVID A. GRAVES, SR. AND DAVID A GRAVES, JR.
DANNY STEVEN KEY
SANDRA FREEDLE THOMERSON, VIVIAN FREEDLE HARRIS, AND GLENDA FREEDLE PIKE
LOU VERNE BOND
ROBERT E. FREEMAN, ETUX BEVERLY B. FREEMAN
GARY T. FERGUSON, ETUX JANA FERGUSON
JAMES H. CUMMINGS JR., ETUX TRESA L. CUMMINGS
JAMES H. CUMMINGS
LINDA B. WATKINS, ETAL
CLYDE E. WATKINS
L & W PROPERTIES GROUP
MICHAEL E. LOGAN, ETUX LISA D. LOGAN
KTR NASHVILLE, LLC
JOHN Z. WILKINSON & LUCAS T. WILKINSON

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 17F
MATCH LINE STA. 353+00.00 SEE SHEET NO. 16
MATCH LINE STA. 366+00.00 SEE SHEET NO. 18
MATCH LINE STA. 1136+00.00 SEE SHEET NO. 17G

(A) 65+18.51 - 25.00' (TGT ROAD)
(B) R=30.00' - L=32.08'
(C) N 25° 39' 4" E - 49.79'
(D) N 25° 19' 4" E - 21.21'
(E) N 73° 56' 24" W - 30.42'
(F) R=119.94'- L=49.98'
(G) N 73° 56' 24" W - 174.29'
(H) S 25° 59' 18" W - 19.91'
(I) S 25° 12' 33" W - 37.21'
(J) S 25° 12' 33" W - 19.71'
(K) N 45° 22' 26" W - 76.06'
(L) S 25° 37' 40" W - 17.98'
(M) S 25° 37' 40" W - 7.02'
(N) N 14°09'36" W - 27.52'
(O) N 56° 38' 39" W - 8.80'
(P) N 56° 38' 39" W - 163.80'
(Q) N 69° 05' 58" W - 98.03'
(R) N 40° 03' 17" W - 69.33'
(S) N 65° 37' 57" W - 145.28'

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815
STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S10	835524.3821	1801875.0927	740.15	362+83.35	4.81' (RT)

REMAINING PRES.R.O.W. FROM RELOCATED LAKE SPRINGS ROAD BELONGS TO THE CITY OF PORTLAND

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS
S.R. 109
STA.353+00 TO STA.366+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17D
CONST.	2014	STP/HPP/NH-I-65-3(113)	17D

REV. 07-10-14: ADDED SEPTIC SYSTEM FIELD LINES TRACTS 55 & 59 AND UPDATED FIELD LINE LOCATION FOR TRACT 58.

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

POT 1118+33.17

CARL R. FREEMAN, ETUX DONNA JO FREEMAN

CHARLES R. GROVES

MICHAEL D. SWIFT

JAMES H. CUMMINGS JR.

JOE DAVID CUMMINGS

ANTONIO R. FITTS

ROBERT ALLISON, ETUX PATTI ALLISON

JAMES H. CUMMINGS, ETUX JOYCE J. CUMMINGS

ROBERT J. HUFFINES

JAMES H. CUMMINGS JR., ETUX TRESA L. CUMMINGS

JAMES H. CUMMINGS

PORTLAND CITY LIMITS

CITY OF PORTLAND

SUMNER COUNTY

ROBERTSON COUNTY

S.R. 41 (U.S. 31 W)

N 25° 19' 17" E

LIMIT OF CONST. 1122+50.00

1120

1125

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 17

SEE SHEET 17F (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 41
B.O.P. TO STA.1126+50

SCALE: 1"=50'

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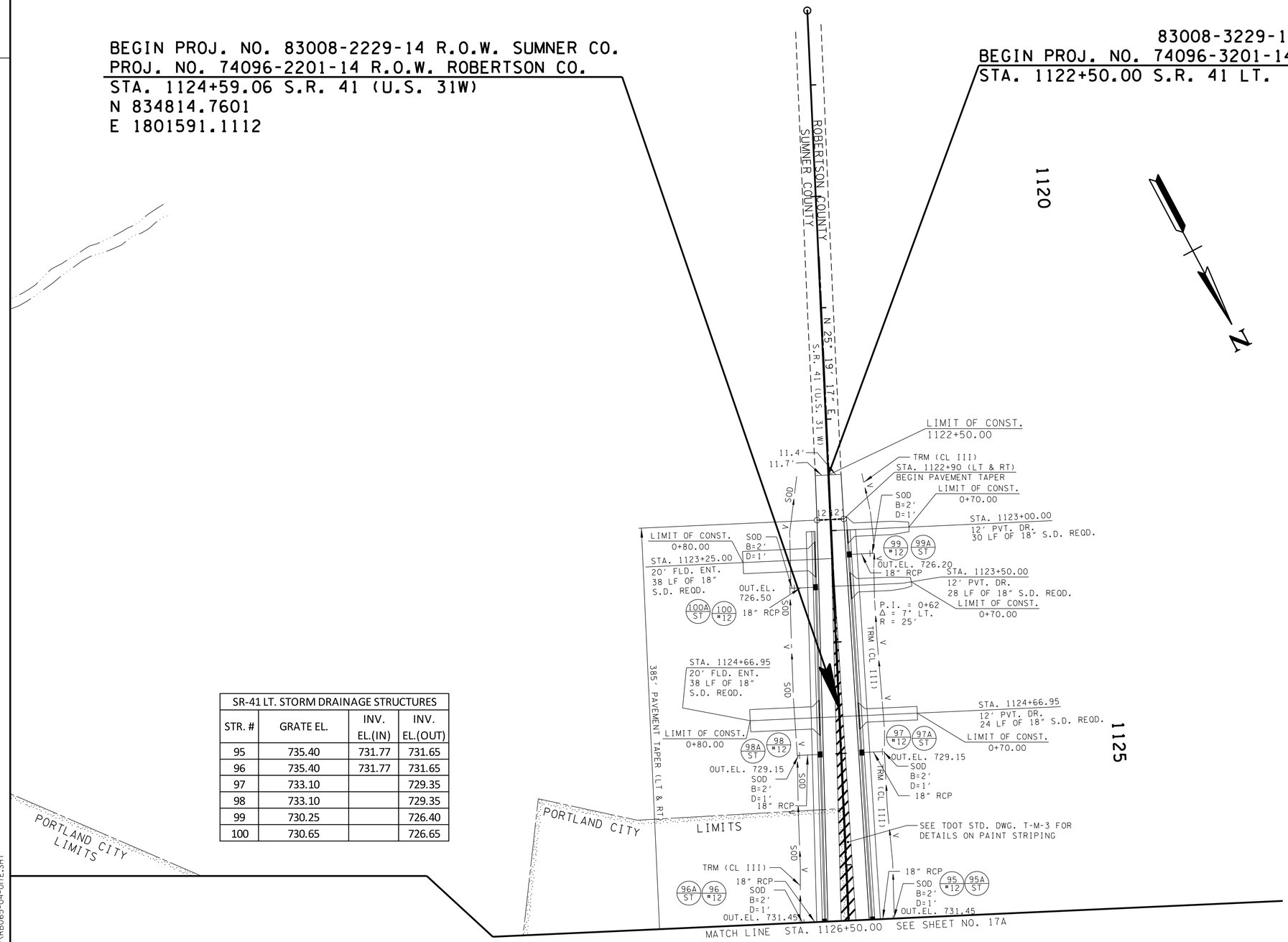
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17E
CONST.	2014	STP/HPP/NH-I-65-3(113)	17E

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.



SR-41 LT. STORM DRAINAGE STRUCTURES			
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(OUT)
95	735.40	731.77	731.65
96	735.40	731.77	731.65
97	733.10		729.35
98	733.10		729.35
99	730.25		726.40
100	730.65		726.65

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 41
B.O.P. TO STA.1126+50

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17F
CONST.	2014	STP/HPP/NH-I-65-3(113)	17F

REV. 02-05-14: UPDATED BEARINGS AND DISTANCES FOR TRACTS 58 AND 59.

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

S 66° 9' 55" E 293.00'
1119+05.20 59.19'
N 25° 33' 26" E 150.49'
N 20° 29' 5" E 174.38'
CHARLES R. GROVES
1120+55.69 59.81'
S 71° 1' 28" E 16.04'
S 71° 1' 28" E 263.25'
MICHAEL D. SWIFT
N 25° 17' 38" E 164.93'
S 33° 30' 37" W 141.80'
S 65° 35' 49" E 281.95'
1122+20.63 59.73'
56
N 25° 24' 20" E 164.60'
N 33° 36' 4" E 161.94'
JAMES H. CUMMINGS JR.
1123+85.23 59.97'
S 64° 42' 37" E 304.99'
JOE DAVID CUMMINGS
57
N 25° 17' 24" E 164.89'
S 33° 27' 58" E 115.45'
ANTONIO R. FITTS
14
ROBERT ALLISON, ETUX PATTI ALLISON
N 49° 50' 45" W 112.00'
N 49° 50' 45" W 90.65'
1125+50.12 59.88'
N 65° 20' 12" W 125.55'
PORTLAND CITY LIMITS
PORTLAND CITY LIMITS
S 34° 16' 10" W 180.00'
20' PUBLIC UTILITY EASEMENT
N 25° 17' 24" E 175.45'
PREV. R.O.W.

ROBERTSON COUNTY
SUMNER COUNTY
S.R. 41 (U.S. 31 W)
N 25° 19' 17" E

S 66° 41' 22" E 198.00'
N 25° 22' 20" E 223.00'
CARL R. FREEMAN, ETUX DONNA JO FREEMAN
1120
N 25° 28' 20" E 227.00'
1120+48.68 30.13'
S 65° 32' 3" E 197.50'
S 65° 32' 3" E 9.50'
N 25° 28' 43" E 174.00'
LIMIT OF CONST. 1122+50.00
JAMES H. CUMMINGS, ETUX JOYCE J. CUMMINGS
55
N 25° 18' 44" E 410.37'
N 31° 32' 4" E 196.21'
JAMES H. CUMMINGS
28
1124+59.06 60.20'
N 72° 14' 13" W 185.00'
10' CONST. ESMT.
58
98.00'
N 22° 58' 49" E
ROBERT J. HUFFINES
1125
N 25° 20' 0" E 98.00'
PREV. R.O.W.
N 72° 06' 04" W 189.00'
JAMES H. CUMMINGS JR., ETUX TRESA L. CUMMINGS
1125+57.06 60.18'
59
10' CONST. ESMT.
N 25° 20' 0" E 152.30'
N 21° 30' 24" E 172.96'

N

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 17C

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

S.R. 41
B.O.P. TO STA.1126+50

SCALE: 1"=50'

9/22/2014 4:50:53 PM
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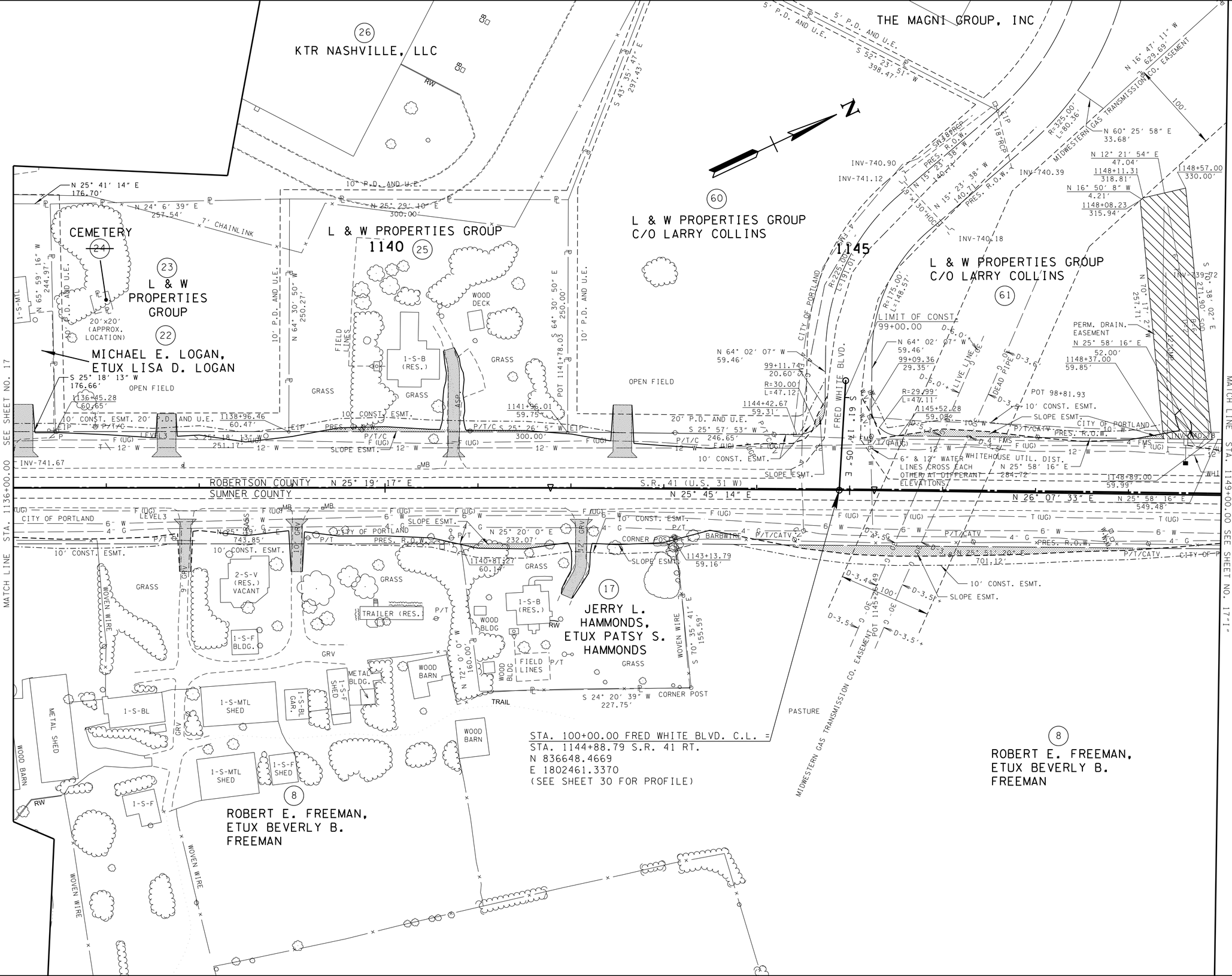
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17G
CONST.	2014	STP/HPP/NH-I-65-3(113)	17G

REV. 02-05-14: UPDATED BEARINGS AND DISTANCES FOR TRACTS 60 AND 61.



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NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CARMEL
NO. 107290
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 41
STA.1136+00 TO STA.1149+00

SCALE: 1"=50'

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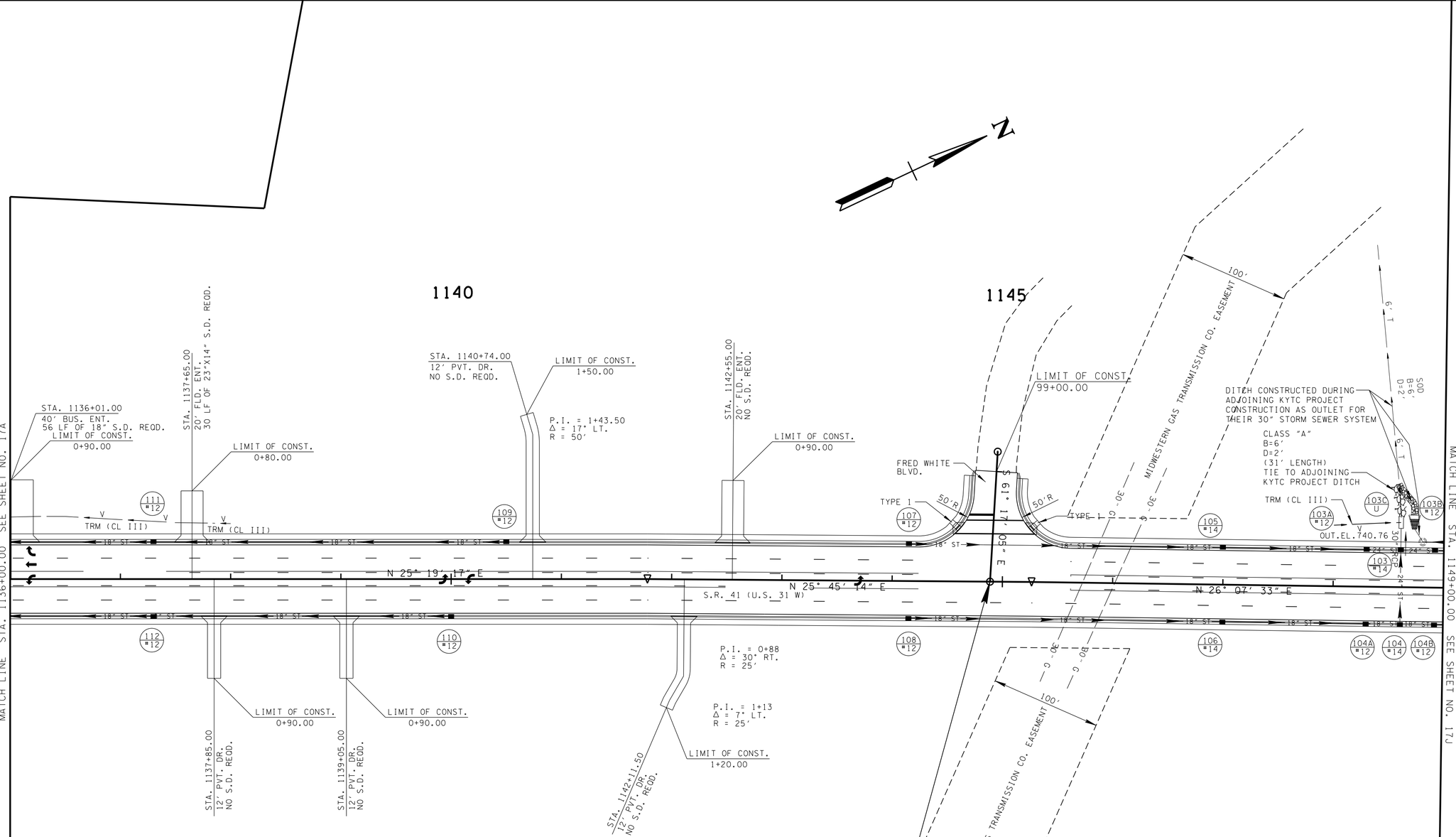
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17H
CONST.	2014	STP/HPP/NH-I-65-3(113)	17H



SR-41 RT. STORM DRAINAGE STRUCTURES					
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(IN)	INV. EL.(OUT)
103	746.15	741.25	741.20	741.20	741.00
103A	746.18	741.75			741.60
103B	746.18	741.50			741.35
104	746.15	741.75	741.68		741.50
104A	746.18	742.40			742.25
104B	746.18	741.95			741.80
105	747.05	742.85			742.50
106	747.05	743.45			743.10
107	750.30				746.50
108	750.30				746.50
109	750.90				747.00
110	750.60				746.60
111	747.30	743.62			743.50
112	747.30	743.62			743.50

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 41
STA.1136+00 TO STA.1149+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17"I"
CONST.	2014	STP/HPP/NH-I-65-3(113)	17"I"

REV. 02-05-14: UPDATED BEARINGS AND DISTANCES FOR TRACTS 60 AND 61.

MIDWESTERN GAS TRANSMISSION CO. EASEMENT
100'
N 89° 34' 7" W
443.00'
CUMBERLAND ELECTRIC MEMBERSHIP CORPORATION
N 25° 58' 19" E
100.00'
20' P.O. AND U.E.
N
TENNESSEE VALLEY AUTHORITY EASEMENT
L & W PROPERTIES GROUP
C/O LARRY COLLINS
61
DANIEL W. COATES, ETAL
1150
1155
END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581
100'
83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.
PORTLAND CITY LIMITS TENNESSEE KENTUCKY
18"PIPE TOP-747.20
INV-744.53
N 81° 02' 01" W
400.00'
LIMIT OF CONST.
1154+76.47
CONC. VAULT & METER ASSY.
CONC. VAULT & METER ASSY.
ELECT. METERS
N 25° 58' 19" E
300.00'
30"CMP INV-744.86
24"PIPE TOP-751.19
TOP(M.H.)-750.18
GUTTER LINE-749.61
INV-744.98
INV-744.93
WHITEHOUSE UTIL. DIST.
1154+38.48
61.47
WHITEHOUSE UTIL. DIST. (ACTIVE)
WHITEHOUSE UTIL. DIST.(ABANDONED)
INV-744.47
INV-744.58
CITY OF PORTLAND
TOP-747.79
BOT-743.38
CONC. DRIVE
CONC. DRIVE
MATCH LINE STA. 1149+00.00 SEE SHEET NO. 17G
N 26° 07' 33" E
S.R. 41 (U.S. 31 W)
ROBERTSON COUNTY
SUMNER COUNTY
12"CMP INV-743.13
INV-743.39
BORNER POST
PORTLAND PRES. R.O.W.
N 26° 34' 6" W
174.64'
FIREWORKS STAND
1181+89.92
58.60'
N 26° 16' 07" E
129.50'
1153+19.42
58.93'
1154+25.61
60.06'
PC 50+51.61
LEVEL3
1155+99.09
60.76'
1150+15.29
57.23'
10' CONST. ESMT.
N 25° 51' 20" E
701.12'
S 75° 19' 14" E
192.21'
1-S-F BUS.
CHAIN LINK
JERRY JOHNS
1-S-F BUS.
BUCCANEER'S IMPORTED WINES & SPIRITS
JU JU'S CORNER AT 109 & 31-W
S 30° 43' 55" E
106.19'
S 60° 20' 21" E
121.37'
S 25° 25' 25" E
86.54'
TOP-747.36
BOT-741.78
METAL
0.98
CONSTANCE DECARL
HIGH TIDE INC.
WILMA L. STINSON
CONSTANCE DECARL
S 72° 33' 47" E
140.59'
OLD S.R. 109
R=100.00'
L=109.74'
PI STA 50+90.73
Delta 12°24'12"
C 77.78
T 39.12
L 77.93
R 360.00
E 2.12
emax 0.08
e N/A
Runoff N/A
Runout N/A
AJAYKUMAR C. PARIKH, ETUX RAMIL V. PATEL
N 36° 30' 58" W
146.82'
KENTUCKY TENNESSEE
8
ROBERT E. FREEMAN, ETUX BEVERLY B. FREEMAN
TENNESSEE VALLEY AUTHORITY EASEMENT
100'
S 75° 22' 43" E
280.06'

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 41
STA.1149+00 TO E.O.P.

SCALE: 1"=50'

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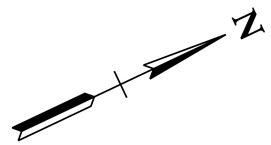
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	17J
CONST.	2014	STP/HPP/NH-I-65-3(113)	17J



1150

END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581

1155
83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.

MATCH LINE STA. 1149+00.00 SEE SHEET NO. 17H

STA. 1150+76.47
20' FLD. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+70.00

MH AND 30" STORM SEWER SYSTEM
TO BE CONSTRUCTED AS PART OF
ADJOINING KYTC PROJECT

LIMIT OF CONST.
1154+76.47

101A #14 | 101 #12 | 101B #12 | 102A #14 | 102 #12

30" ST | 24" ST | 18" ST

N 26°-07'-33"E

S.R. 41 (U.S. 31 W)

ADJOINING PROJECT
KENTUCKY
FD52-107-031W-000-006
STPR-100-15

24' | 24' | 50' R

24" STOP BAR

O/D S.R. 109

STA. 1150+55.00
14' BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+60.00

STA. 1151+67.39
35' BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+60.00

STA. 1152+31.47
34' BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+60.00

STA. 1152+91.47
28' BUS. ENT.
NO S.D. REQD.

STA. 1153+71.47
40' BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+60.00

LIMIT OF CONST.
0+60.00

SR-41 RT. STORM DRAINAGE STRUCTURES			
STR. #	GRATE EL.	INV. EL.(IN)	INV. EL.(OUT)
101	747.39	743.50	743.35
101A	746.64	742.35	742.00
101B	748.06		744.20
102	747.39		743.55
102A	746.64	742.75	742.40

UNOFFICIAL SET
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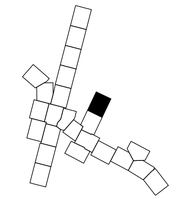

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 41
STA.1149+00 TO E.O.P.

SCALE: 1"=50'

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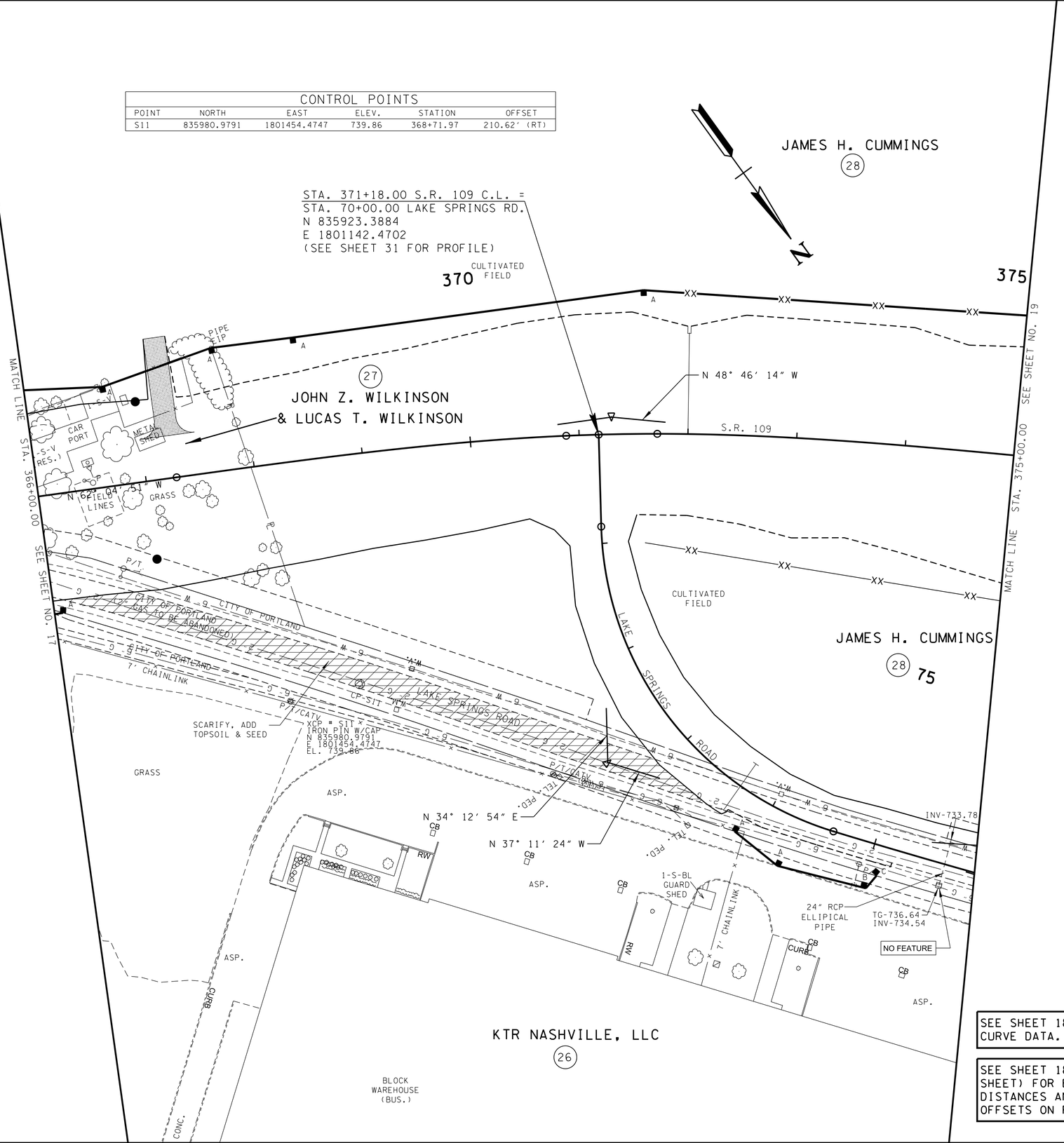
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	18
CONST.	2014	STP/HPP/NH-I-65-3(113)	18

REV. 02-05-14: CHANGED PROPERTY OWNER NAME FOR TRACT 27 FROM "LYNNE S. MOSELY" TO "JOHN Z. WILKINSON & LUCAS T. WILKINSON".

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S11	835980.9791	1801454.4747	739.86	368+71.97	210.62' (RT)



SEE SHEET 18A FOR ALIGNMENT CURVE DATA.

SEE SHEET 18C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.366+00 TO STA.375+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	18A
CONST.	2014	STP/HPP/NH-I-65-3(113)	18A

S.R. 109
CURVE DC21
PI 371+31.26
N 835,917.1448
E 1,801,123.6166
Δs 13° 18′ 37″ (RT)
θs 5° 24′ 00″
Δc 2° 30′ 37″ (RT)
Dc 3° 00′ 00″
Rc 1,909.86
Lc 83.68
Ts 403.12
Ls 360.00
SE 0.068 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 360

STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3884
E 1801142.4702
(SEE SHEET 31 FOR PROFILE)

SC 370+88.14
CS 371+71.82
TS 367+28.14

370
375

STA. 367+25.00
20′ FLD. ENT.
NO S.D. REQD.

LIMIT OF CONST.
1+30.00

STA. 370+37.50 (39′ LT)
BEGIN 110′ PAVEMENT TAPER

STA. 370+37.50 (15′ LT)
END BAY TAPER

STA. 371+47.50 (37′ LT)
END 110′ PAVEMENT TAPER

4′x5′ CLASS "B" APRON
OUT.EL. 737.80

STA. 372+90 (1′ LT)
BEGIN BAY TAPER

2′ RAISED CONC. MEDIAN
GT. EL. 745.30
IN. EL. 741.55
OUT.EL. 741.40

66A #25
66 #25
65A #25 GT. EL. 746.75 IN. EL. 743.00 OUT.EL. 742.85
64 #25 GT. EL. 748.05 IN. EL. 744.30 OUT.EL. 744.15
65 #25 GT. EL. 747.60 IN. EL. 743.80 OUT.EL. 743.65
63 #25 GT. EL. 748.95 OUT.EL. 745.20
62 #25 GT. EL. 749.75 OUT. EL. 746.00
60 #25 GT. EL. 750.95 IN. EL. 746.90 OUT.EL. 746.75
58 #25 GT. EL. 751.75 OUT.EL. 748.00
61 #25 PC 70+84.56 GT. EL. 750.15 IN. EL. 745.00 IN. EL. 745.00 OUT.EL. 740.00
59 #25 GT. EL. 751.40 IN. EL. 747.50 OUT.EL. 747.35

66 #25 GT. EL. 745.95 IN. EL. 742.20 OUT.EL. 742.05

N 42° 04′ 15″ W

110′ TAPER
18′ ROP
14′R
16′R
15′R
50′R
24′
23.31′
15:1
20:1
SOD
S.R. 109
370+90
371+40
10′ RAISED MEDIAN
STA. 372+63.42 BEGIN PAVEMENT TAPER
STA. 367+07.50 (7′ RT) BEGIN BAY TAPER

MATCH LINE STA. 366+00.00 SEE SHEET NO. 17A

MATCH LINE STA. 375+00.00 SEE SHEET NO. 19A

LAKE SPRINGS ROAD
CURVE DC155
PI 73+01.27
N 836,172.5186
E 1,801,311.8743
Δ 71° 24′ 18″ (LT)
D 19° 00′ 00″
R 301.56
L 375.82
T 216.71
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110

12′
TRM (CL III)
LAKE SPRINGS ROAD
SOD
V

N 34° 12′ 54″ E
N 37° 11′ 24″ W

SOD B=2′ D=1′ OUT.EL. 737.00
TRM (CL III) B=2′ D=1.5′
IN.EL. 737.40
EXISTING RETAINING WALL TO REMAIN
11.9′
12.4′
INV-733.78
24″ RCP ELLIPICAL PIPE
EXIST.CATCH BASIN (APPROX. LOCATION)

PCC 74+60.38

75

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SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.366+00 TO STA.375+00

SCALE: 1"=50'

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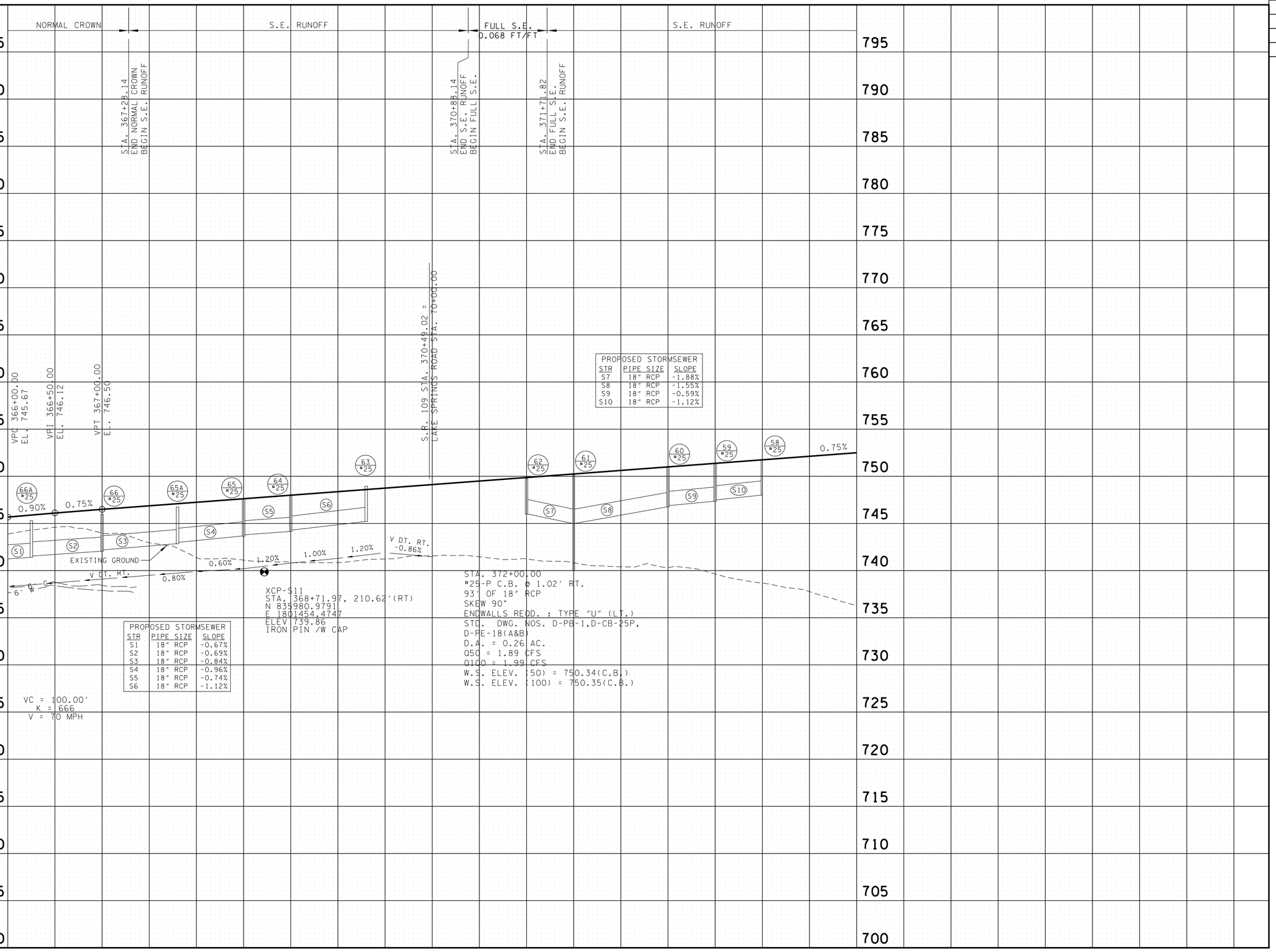
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	18B
CONST.	2014	STP/HPP/NH-I-65-3(113)	18B



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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 366+00 TO STA. 375+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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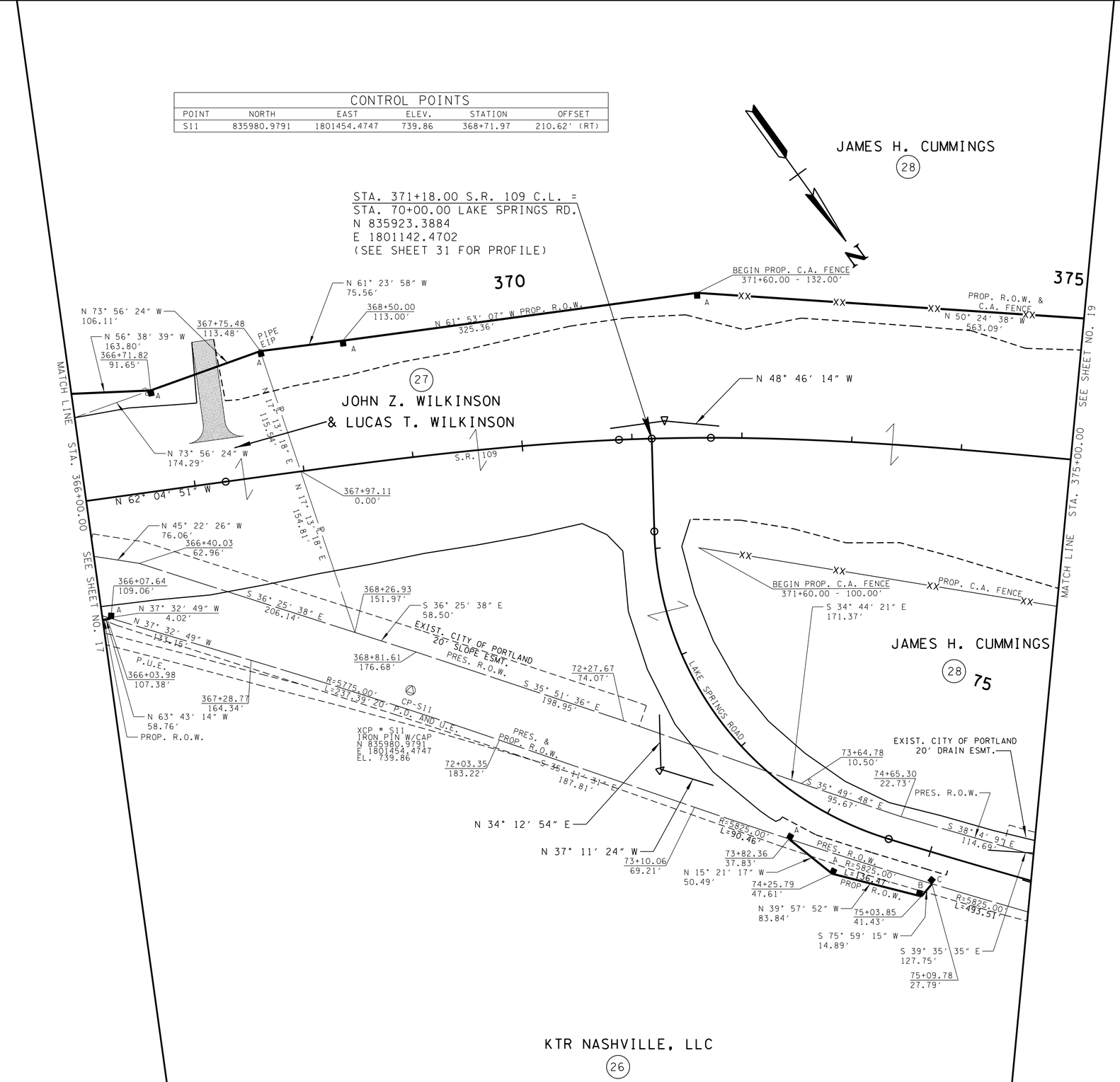
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	18C
CONST.	2014	STP/HPP/NH-I-65-3(113)	18C

REV. 02-05-14: CHANGED PROPERTY OWNER NAME FOR TRACT 27 FROM "LYNNE S. MOSELY" TO "JOHN Z. WILKINSON & LUCAS T. WILKINSON".

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S11	835980.9791	1801454.4747	739.86	368+71.97	210.62' (RT)



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No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

S.R. 109
STA.366+00 TO STA.375+00

SCALE: 1"=50'

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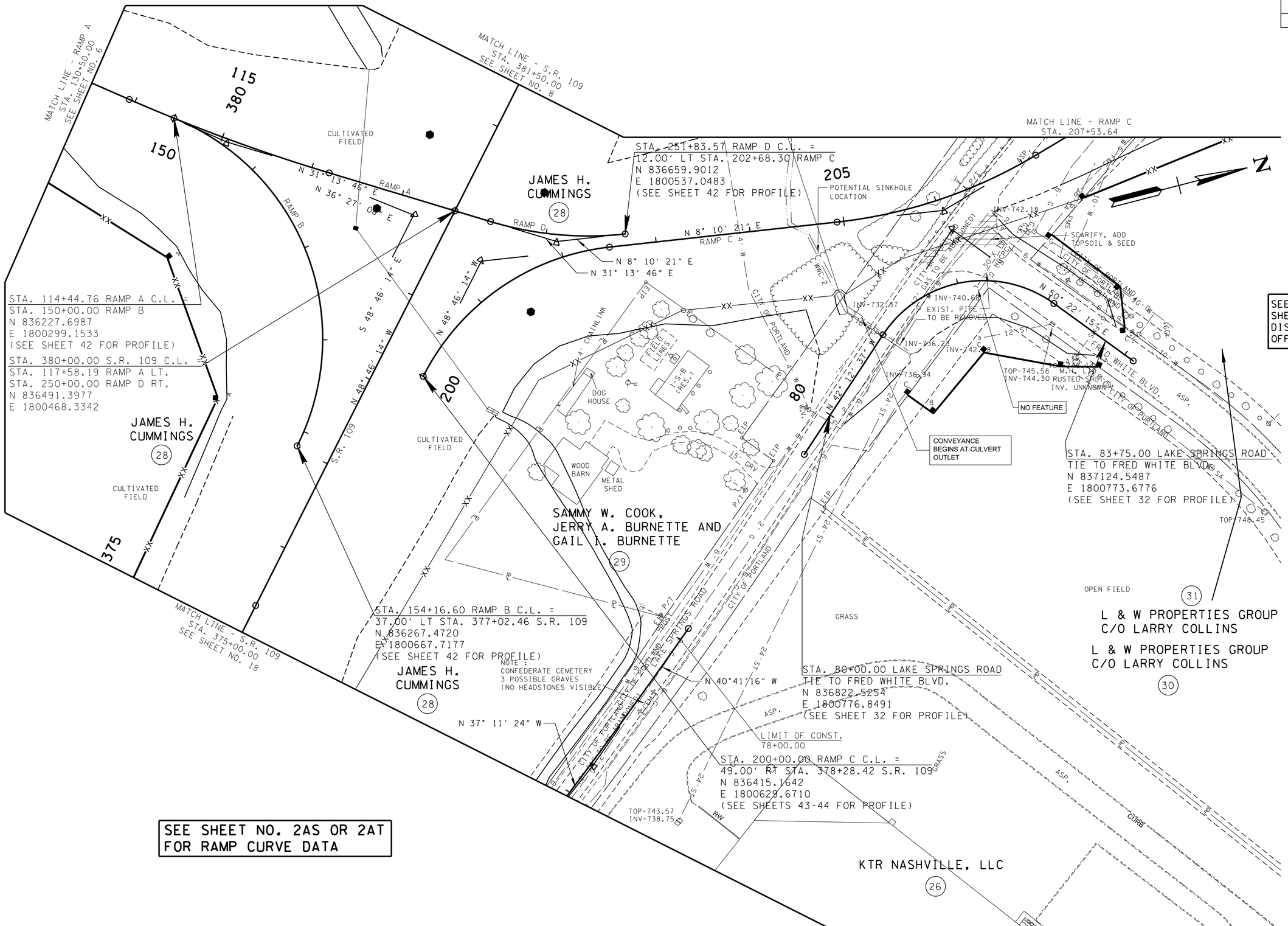
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	19
CONST.	2014	STP/HPP/NH-I-65-3(113)	19



SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

SEE SHEET 19C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.375+00 TO STA.381+50

SCALE: 1"=50'

9/22/2014 1:51:38 PM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	19A
CONST.	2014	STP/HPP/NH-I-65-3(113)	19A

ADD UNIFORM GRADED ROCK
IN 8' WIDE TRENCH DRAINING
GRADED SOLID ROCK AREA
(SEE SOILS REPORT FOR MORE DETAIL)

AREA OF SOFT SOILS AS NOTED IN GEOTECHNICAL REPORT
(SEE SOILS REPORT ON DETAILS OF EXCAVATION AND ADDING
BACK GRADED SOLID ROCK.)

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 6A

MATCH LINE - S.R. 109
STA. 381+50.00
SEE SHEET NO. 8A

MATCH LINE - RAMP C
STA. 207+53.64

MATCH LINE - S.R. 109
STA. 375+00.00
SEE SHEET NO. 18A

STA. 114+44.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533
(SEE SHEET 42 FOR PROFILE)

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483
(SEE SHEET 42 FOR PROFILE)

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177
(SEE SHEET 42 FOR PROFILE)

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710
(SEE SHEETS 43-44 FOR PROFILE)

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491
(SEE SHEET 32 FOR PROFILE)

STA. 83+75.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776
(SEE SHEET 32 FOR PROFILE)

LAKE SPRINGS ROAD
CURVE DC156
PI 76+37.47
N 836,486.2416
E 1,801,073.8319
Δ 3° 29' 52" (LT)
D 0° 59' 16"
R 5,800.00
L 354.08
T 177.09

SEE SHEET NO. 2AS OR 2AT
FOR RAMP CURVE DATA

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.375+00 TO STA.381+50

SCALE: 1"=50'

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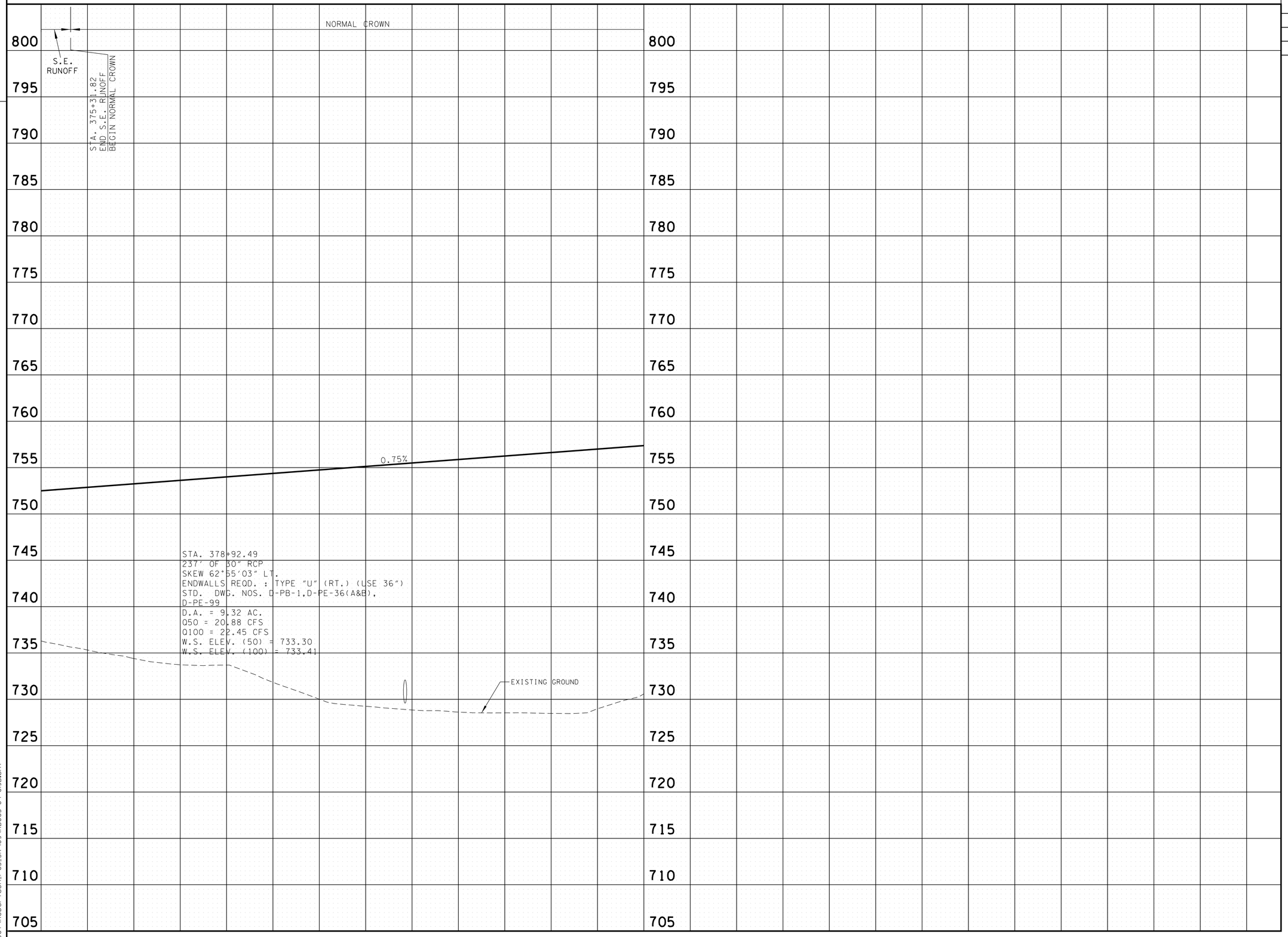
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	19B
CONST.	2014	STP/HPP/NH-I-65-3(113)	19B



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 375+00 TO STA. 381+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

9/22/2014 7:50:27 PM
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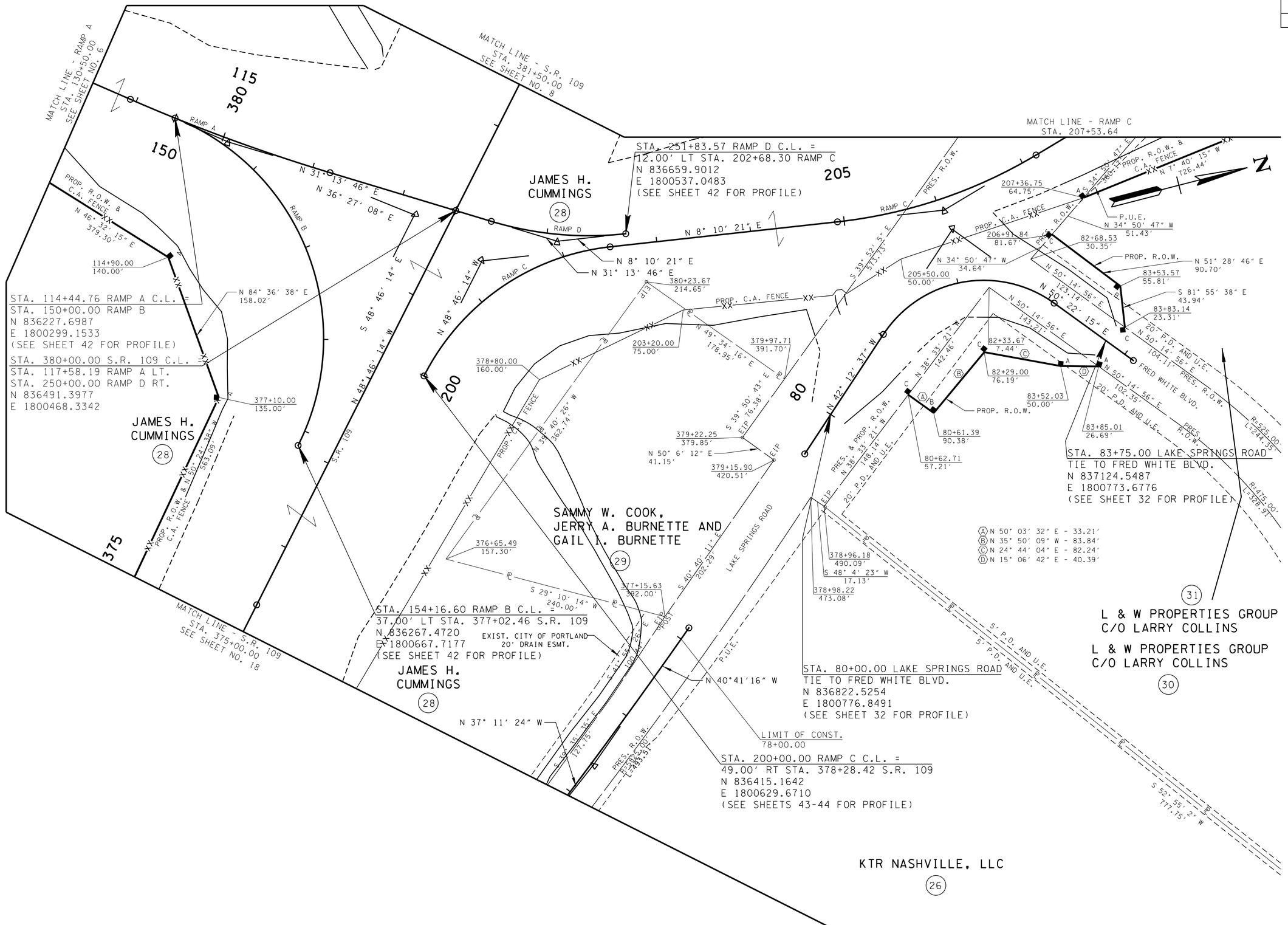
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	19C
CONST.	2014	STP/HPP/NH-I-65-3(113)	19C



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
TRANSPORTATION
COMMERCE
No. 107206
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

S.R. 109
STA.375+00 TO STA.381+50

SCALE: 1"=50'

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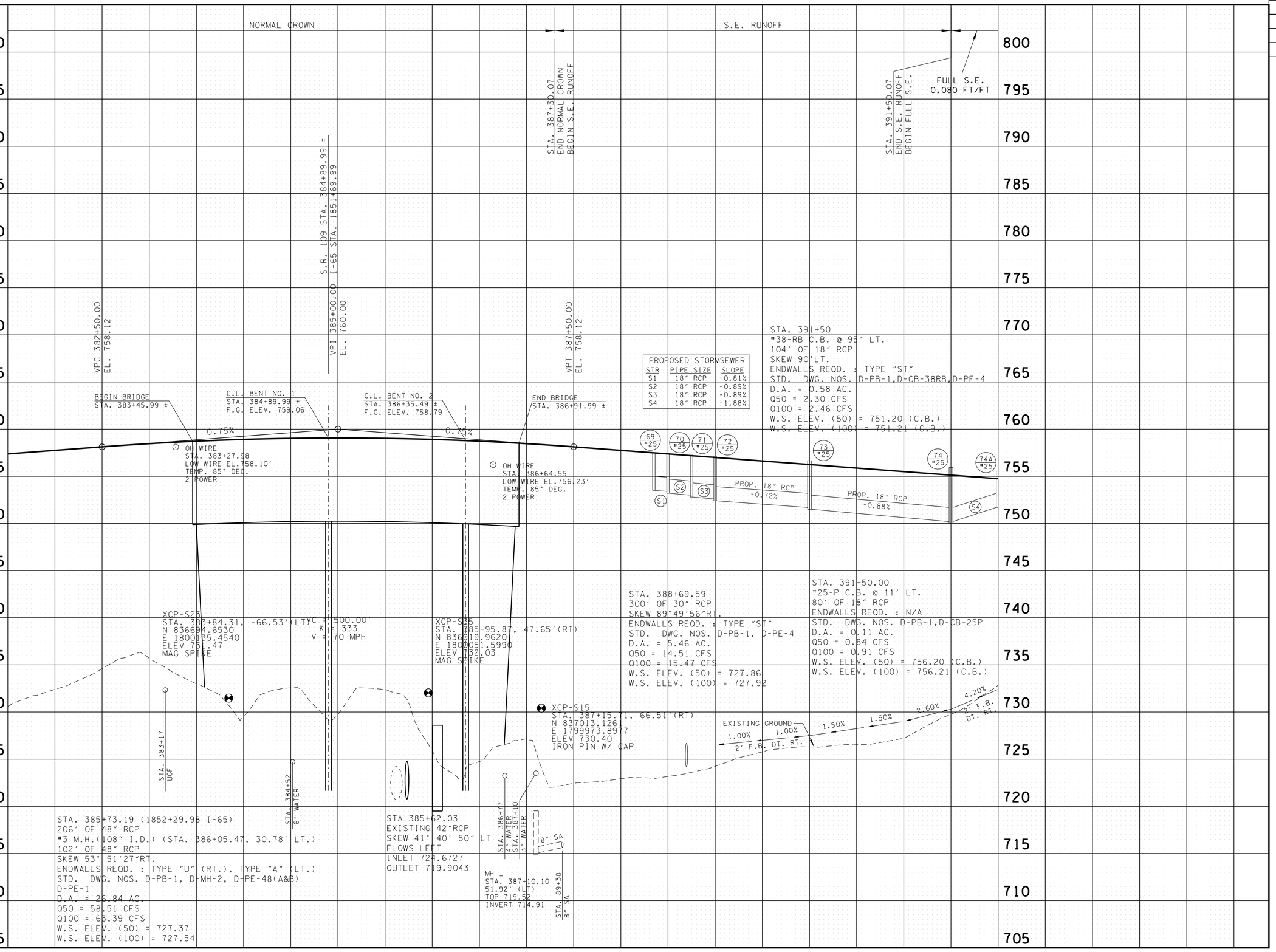
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	20
CONST.	2014	STP/HPP/NH-I-65-3(113)	20



SEE SHEET 109 FOR LAYOUT

.R.
D

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 381+50 TO STA. 392+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	21
CONST.	2014	STP/HPP/NH-I-65-3(113)	21

N

WOODS

N 84° 21' 43" W
754.50'

S 44° 09' 18" E
S 58° 19' 34" W

PC 29+23.20

PT 26+82.48

50' TEXAS GAS TRANSMISSION EASEMENT

N 13° 9' 4" E
1408.53'

WOODS

PROP. R.O.W.

S 12° 54' 20" W
397.00'

S 12° 59' 41" W

25+75.00
60.00'

SEE SOIL SHEET 138C FOR TYPICAL SINKHOLE TREATMENT

PC 24+87.27

25

PROP.C.A. FENCE

SINKHOLE 2 (FILLED WITH DEBRIS)

460

458+82.00
78.00'

457+37.00
65.00'

D-4.5°

D-41.2'

D-39.1'

D-31.8'

D-31.7'

10.0'

MATCH LINE - RAMP H
STA. 461+34.86
SEE SHEET NO. 7

MATCH LINE - RAMP E
STA. 312+82.16

315

455

350

320

S 50° 54' 51" W
406.48'

S 50° 05' 07" W
FRONTAGE ROAD

S 58° 19' 34" W

PC 455+20.69

PT 453+64.2

POT 350+00.00

POT 402+86.96

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706
(SEE SHEETS 48-50 FOR PROFILES)

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

21+80.00
37.00'

PT 22+16.40

32

JAMES C. ANDERSON,
ETUX MARILYN K.
ANDERSON 20

PROP. R.O.W.

S 29° 19' 38" W
172.56'

20+50.00
40.00'

S 1° 46' 43" W
97.74'

PERM. DRAIN. ESMT.

PT 17+26.25

PC 18+05.91

WWC-1

N 24° 28' 00" E
100.00'

17+30.00
160.00'

17+65.00
160.00'

17+00.00
78.00'

N 38° 19' 21" E
91.17'

S 15° 04' 32" W
330.24'

16+10.00
70.00'

S 10° 19' 06" E
111.95'

S 62° 05' 32" W
45.00'

17+65.00
115.00'

S 27° 54' 28" E
40.00'

18+05.00
115.00'

N 62° 05' 32" E
40.43'

TEMP. CONST. ESMT.

19+35.00
50.00'

S 28° 55' 28" E
105.35'

17+65.00
75.29'

S 62° 05' 32" W
39.71'

S 28° 55' 28" E
40.01'

18+05.00
74.57'

S 13° 31' 52" W

BARBED WIRE

397+88.00
204.00'

POND
PND-1
(DRAINED)

396+92.00
173.00'
PASTURE

Ⓐ N 82° 20' 58" W - 68.39'
Ⓑ 393+03.90 - 81.52'
Ⓒ N 3° 41' 34" E - 87.95'
Ⓓ 395+11.42 - 189.24'
Ⓔ N 4° 45' 11" E - 31.01'
Ⓕ 395+44.81 - 202.64'
Ⓖ N 4° 45' 11" E - 101.42'
Ⓗ N 82° 50' 26" W - 432.99'
Ⓘ N 87° 13' 25" W - 440.79'
Ⓙ N 21° 11' 03" W - 157.00'
Ⓚ N 21° 11' 03" W - 130.09'

PROP. R.O.W. & C.A. FENCE

394+20.66
148.63'

N 3° 41' 34" E
125.06'

WOVENWIRE

PROP.C.A. FENCE

S 27° 54' 28" E

WOVENWIRE

451+70.00
93.00'

N 0° 25' 39" W

395

450

N 48° 46' 14" W

BB.

NO. 74-0142

S 21° 42' 15" E

S.R. 109

36
JOSEPH E. HOPKINS

396+00.00
150.00'

35
JOSEPH E. HOPKINS

PASTURE

CHERYLL EVERETT JAMES

34

CULTIVATED FIELD

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885
(SEE SHEET 47 FOR PROFILE)

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924
(SEE SHEET 47 FOR PROFILE)

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 8

MATCH LINE - S.R. 109
STA. 397+00.00
SEE SHEET NO. 22

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.392+00 TO STA.397+00
RAMPS E, F, G, & H
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	21A
CONST.	2014	STP/HPP/NH-I-65-3(113)	21A

RIPRAP 1' ABOVE FL. DITCH
2:1 2:1
10' F.B. DT.

SECTION A-A
EXISTING & PROPOSED
2X SIZE

TAPER TO MATCH EXIST. AT TIE-IN
RIPRAP 1' ABOVE FL. DITCH
2:1 2:1
10' F.B. DT.

SECTION B-B
EXISTING & PROPOSED
2X SIZE

N

S 44° 09' 18" E
S 58° 19' 34" W
STA. 29+00.00
20' FLD. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+60.00
15'R
15'R
11'
11'
S 12° 59' 41" W
50' TEXAS GAS TRANSMISSION EASEMENT
D-4.2°
10'G
D-4.5°
SOD
V
TRM (CL III)
460
MATCH LINE - RAMP H
STA. 461+34.86
SEE SHEET NO. 7A
24'
RAMP H
CONC.
D-4.2°
D-3.9°
10'G
RAMP E
CONC.
16'
2' T
D-3.8°
D-3.4°
9'-0"
9'-0"
50' TEXAS GAS TRANSMISSION EASEMENT
MATCH LINE - RAMP E
STA. 312+82.16
315
25
455
S 50° 05' 07" W
FRONTAGE ROAD
S 58° 19' 34" W
350
STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214
STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706
(SEE SHEETS 48-50 FOR PROFILES)
STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744
20
WWC-1
B
B
CLASS "B"
B=10'
D=VARIES
SOD
V
S 13° 31' 52" W
OUT.EL.
713.50
2 @ 14' x 9' RCBB
A
CLASS "B"
B=4'
D=1'
IN.EL.
713.80
END GUARDRAIL
LT. STA. 18+56.25
RT. STA. 19+05.00
TYPE 21
A
A'
T
OUT.EL.
714.00
CLASS "B"
B=10'
D=VARIES
2 @ 18' x 9' RCBB
ASP.
TRM (CL III)
BEGIN GUARDRAIL
STA. 453+00.00
TYPE 13
4' CLASS "A"
RIP-RAP DOWN
SLOPE TO 5'
PAST TOE
STA. 453+40.00 (12' LT)
END PAVEMENT TAPER
S 27° 54' 28" E
395
STA. 452+80.00 (16' LT)
BEGIN PAVEMENT TAPER
N 48° 46' 14" W
N 0° 25' 39" W
450
OUT.EL.
748.50
18" RCP
RAMP H
CONC.
ASP.
16'
12'
24'
13'
MATCH LINE - S.R. 109
STA. 397+00.00
SEE SHEET NO. 22A
GT. EL. 752.30
OUT.EL. 749.25
46
#38
S 21° 42' 15" E
BEGIN GUARDRAIL
STA. 396+00.00
TYPE 38
STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885
(SEE SHEET 47 FOR PROFILE)
BEGIN GUARDRAIL
STA. 319+72.21
TYPE 38
320
RAMP E
RAMP F
N 54° 22' 38" E
CONC.
POLE A
(PROP.)
10'R
50'R
22' RAISED MEDIAN
STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924
(SEE SHEET 47 FOR PROFILE)
CONC. DT.
DOWN SLOPE
B=3'
D=0.5'
POLE D
(PROP.)
GT. EL. 750.90
IN. EL. 747.00
OUT.EL. 746.75
89
#38
OUT.EL.
746.10
18" RCP
18" RCP
MATCH LINE - RAMP E
STA. 321+52.32
392+91
392+10
7'R
74A
#25
10' RAISED MEDIAN
GT. EL. 755.60
OUT.EL. 751.70
MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 8A
2' T
TRM (CL III)
B=2'
D=1'

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 19726
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.392+00 TO STA.397+00
RAMPS E, F, G, & H
SCALE: 1"=50'

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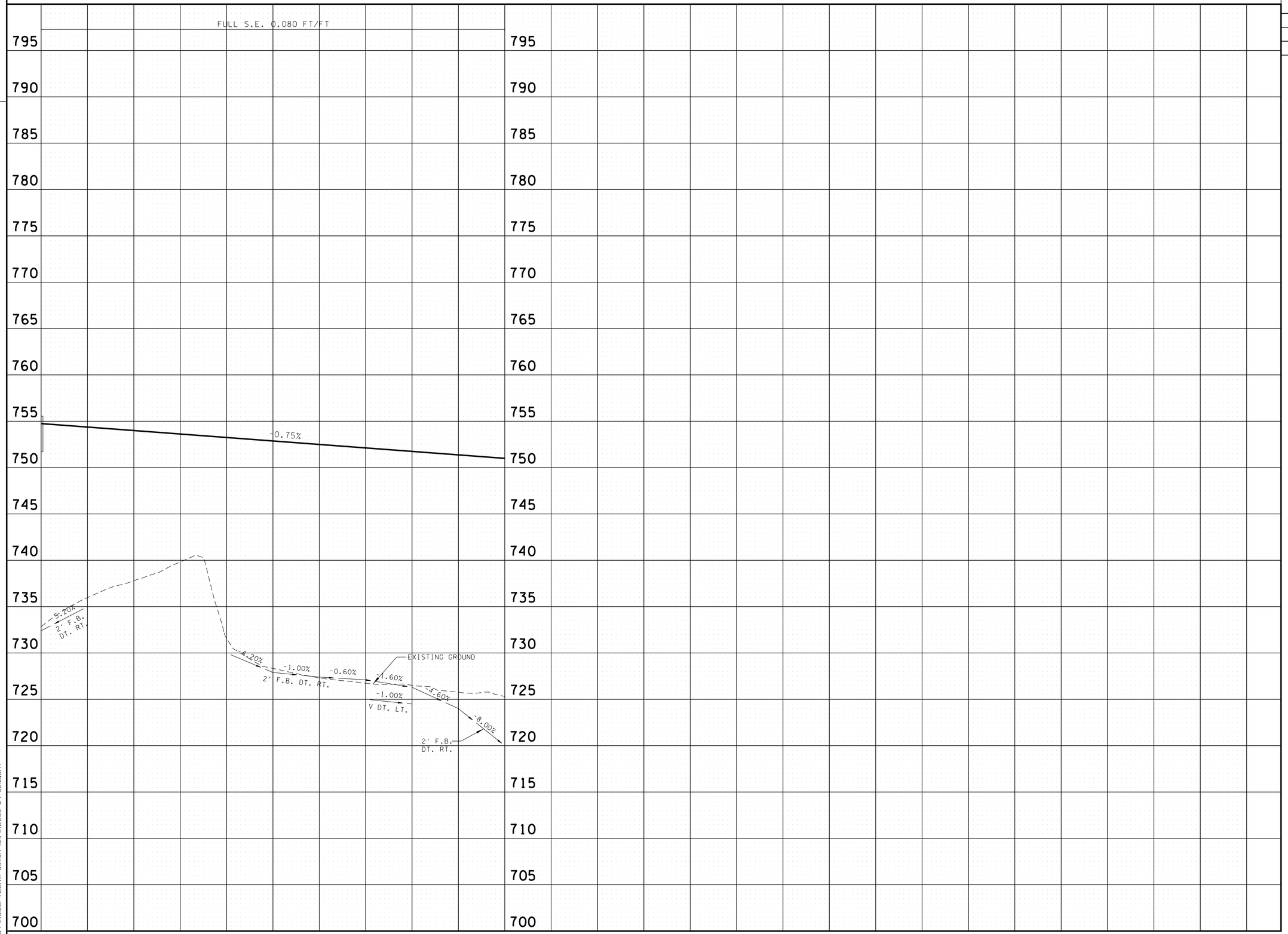
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	21B
CONST.	2014	STP/HPP/NH-I-65-3(113)	21B



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NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 392+00 TO STA. 397+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S17	838429.2180	1799218.2280	747.54	28+42.50 EUBANKS LT.	9.02' (LT)
S16	838430.6230	1799604.4080	750.59	32+36.63 EUBANKS RT.	13.78' (LT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	22
CONST.	2014	STP/HPP/NH-I-65-3(113)	22

REV. 12-09-13: UPDATED PROP. R.O.W. & TOE OF SLOPES FOR TRACT 40. REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: REMOVED CUL-DE-SAC RT. STA. 407+00 SR-109 ON VAUGHN DRIVE, AND UPDATED PROP. R.O.W. FOR TRACT 40 RT. EXTENDED SCARIFICATION OF VAUGHN DRIVE TO THE INTERSECTION OF VAUGHN DRIVE AND LAKE SPRINGS INTERSECTION.

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT FOR TRACTS 32, & 37.

N

WOODS

EUBANKS ROAD

PORTLAND CITY LIMITS

III REAL ESTATE, LLC (42)

(40) L & W PROPERTIES GROUP

GRASS

S 86° 51' 36" E
POT 26+30.38

PC 15+08.15

(39) LLOYD SHORT, ETUX
MARTHA SHORT

JAMES C. ANDERSON, ETUX
MARILYN K. ANDERSON

15

(32)

PT 13+08.65

PC 12+62.54

METAL SHED

TRAILER (RES.)

RC 26+49.45

FIELD LINES

2"PIPE

PT 27+73.29

S 13° 31' 52" W

FRONTAGE ROAD

S 4°46' 12" W

S 85° 55' 52" E

400

405

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770
(SEE SHEETS 53 & 54 FOR PROFILE)
STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.49 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2495
(SEE SHEET 33 FOR PROFILE)

CULTIVATED FIELD

XCP # S17
IRON PIN W/ CAP
N 838429.2180
E 1799218.2280
EL. 747.54

MATCH LINE - STA. 409+00.00 SEE SHEET NO. 23

MATCH LINE - S.R. 109 STA. 397+00.00 SEE SHEET NO. 21

S.R. 109

STOP AHEAD

SINKHOLE

POND PND-1 (DRAINED)

SEE SOIL SHEET 138C FOR TYPICAL SINKHOLE TREATMENT

SEE SOIL SHEET 138C FOR TYPICAL SINKHOLE TREATMENT

SINKHOLE 1

N 0° 25' 39" W

N 48° 48' 24" W

TOP-739.74
INV-733.49

PC 406+43.09

S 85° 55' 52" E

PC 31+12.77

(40)

JAMES C. ANDERSON, ETUX
MARILYN K. ANDERSON

(32)

WOVEN WIRE

WOOD BARN

NO SEPTIC AT THIS TIME IN PROCESS OF SETTING UP

XCP # S16
IRON PIN W/ CAP
N 838430.6230
E 1799604.4080
EL. 750.59

ST 401+67.82

N 54° 39' 48" E

TOP-745.60

PT 33+19.10

VAUGHN DRIVE

SCARIFY, ADD TOPSOIL & SEED

SEE SHEET 22C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

JOSEPH E. HOPKINS (36)

LOU HALL (37)

GREG MARTIN (38)

L & W PROPERTIES GROUP (41)

DOG PEN

WOOD SHED

1-S-F (RES.)

CISTERN 16' DEEP

(160' DEEP) WELL

FENCE POST

INV-745.50

INV-745.95

NO GAS

LIMIT OF CONST. 33+60.00

TOP-747.04

LAKE SPRINGS ROAD

N 20° 00' 19" W

MIDWEST GAS TRANS OK
NO CEMC
ATT/D OK

SEWER PUMP

MATCH LINE SEE SHEET NO. 9

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA. 397+00 TO STA. 409+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	22A
CONST.	2014	STP/HPP/NH-I-65-3(113)	22A

REV. 12-09-13: REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: REMOVED CUL-DE-SAC RT. STA. 407+00 SR-109 ON VAUGHN DRIVE.

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

N

PORTLAND CITY

EUBANKS ROAD

S 86° 51' 36" E

7.3'

100' PVMT. & SH. TAPER

LIMIT OF CONST. 0+50.00

STA. 27+19.50
20' FLD. ENT.
30 LF OF 23"X14"
HOCP S.D. REQD.

405

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770
(SEE SHEETS 53 & 54 FOR PROFILE)

STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.49 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2495
(SEE SHEET 33 FOR PROFILE)

LIMIT OF CONST. 0+70.00

STA. 27+19.50
12' PVT. DR.
22 LF OF 23"X14"
HOCP S.D. REQD.

LIMIT OF CONST. 0+60.00

STA. 13+50.00
20' FLD. ENT.
34 LF OF 18" S.D. REQD.

BEGIN GUARDRAIL
STA. 15+75.00
TYPE 21

15

S 13° 31' 52" W
FRONTAGE ROAD

BEGIN GUARDRAIL
STA. 15+36.25
TYPE 21

CLASS "B"
B=4'
D=1'

400

S 4° 46' 12" W

S 85° 55' 52" E

CLASS "B"
B=2'
D=1'

TRM (CL III)

END GUARDRAIL
STA. 400+50.00
TYPE 38

75 #25 GT. EL. 751.45 OUT.EL. 747.65

78 #25 GT. EL. 748.90 IN. EL. 745.12 OUT.EL. 745.00

79 #25 GT. EL. 748.65 IN. EL. 744.72 OUT.EL. 744.60

81 #25 GT. EL. 748.10 IN. EL. 743.12 OUT.EL. 740.10

OUT.EL. 739.65

STA. 399+38.30
BEGIN PAVEMENT TAPER

22' RAISED MEDIAN

STA. 401+88.30
END PAVEMENT TAPER

18" RCP

S.R. 109

MATCH LINE - S.R. 109
STA. 397+00.00
SEE SHEET NO. 21A

20:1

403+30.64

10' RAISED MEDIAN

80 #25 GT. EL. 748.40 IN. EL. 744.32 OUT.EL. 744.20

76 #25 GT. EL. 750.40 IN. EL. 746.62 OUT.EL. 746.50

77 #25 GT. EL. 749.40 IN .EL. 745.62 OUT.EL. 745.50

CLASS "B"
B=4'
D=2.5'

TRM (CL III)

STA. 401+80.64 (1' RT)
END BAY TAPER

IN.EL. 715.00

END GUARDRAIL
STA. 400+00.00
TYPE 13

STA. 399+40.64 (13' RT)
BEGIN BAY TAPER

A

CLASS "B"
B=10'
D=VARIES

TAPER TO MATCH EXIST. AT TIE-IN

2:1

10' F.B. DT.

SECTION A-A
EXISTING & PROPOSED
2X SIZE

WWC-1

STA. 405+30.00 (1' LT)
BEGIN BAY TAPER

STA. 406+90.00 (13' LT)
END BAY TAPER

240' PAVEMENT TAPER

MATCH LINE STA. 409+00.00
SEE SHEET NO. 23A

N 0° 25' 39" W

N 48° 48' 24" W

STA. 406+90.00 (37' LT & RT)
BEGIN PAVEMENT AND MEDIAN TAPER

SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING

10' RAISED MEDIAN

S 85° 55' 52" E

STA. 31+30.00
20' FLD. ENT.
32 LF OF 18" S.D. REQD.
LIMIT OF CONST. 0+60.00

STA. 31+30.00
20' FLD. ENT.
32 LF OF 18" S.D. REQD.
LIMIT OF CONST. 0+70.00

N 54° 39' 48" E

P.I. = 0+51
Δ = 12° RT.
R = 25'

STA. 32+40.00
12' PVT. DR.
24 LF OF 18"
S.D. REQD.
LIMIT OF CONST. 0+80.00

100' PVMT. & SH. TAPER

EUBANKS ROAD

100' PVMT. & SH. TAPER

SEE SHEET NO. 2AS OR 2AT FOR RAMP CURVE DATA

LIMIT OF CONST. 0+65.00

12' PVT. DR.
23.0 LF OF 12' X 6'
RCBC S.D. REQD.

STA. 2+87.00
12' PVT. DR.
30 LF OF 18"S.D REQD.

P.I. = 2+83
Δ = 19° RT.
R = 100'

END GUARDRAIL
LT. STA. 2+82
TYPE IN-LINE

CLASS "C"
B=10'
D=5'

P.I. = 0+27
Δ = 14° RT.
R = 25'

36+08.78
78.06' LT.
N 838045.9427
E 1799858.0009

P.I. = 4+01
Δ = 12° LT.
R = 400'

LIMIT OF CONST. 3+42.00

END GUARDRAIL
RT. STA. 2+96
TYPE 21

MATCH LINE
SEE SHEET NO. 9A

P.I. = 5+19
Δ = 7° RT.
R = 100'

P.I. = 5+81
Δ = 82° RT.
R = 35'

PORTLAND CITY LIMITS

LIMIT OF CONST. 33+60.00

LAKE SPRINGS ROAD
N 20° 00' 19" W

STA. 38+43.61 LAKE SPRINGS ROAD =
STA. 6+23.82 PRIVATE DRIVE

LAKE SPRINGS ROAD

PORTLAND CITY LIMITS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA. 397+00 TO STA. 409+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	22B
CONST.	2014	STP/HPP/NH-I-65-3(113)	22B

S.E. RUNOFF | NORMAL CROWN | S.E. RUNOFF | FULL S.E. 0.080 FT/FT

FULL S.E. 0.080 FT/FT

STA. 397+47.82
END FULL S.E.
BEGIN S.E. RUNOFF

STA. 401+67.82
END S.E. RUNOFF
BEGIN NORMAL CROWN

STA. 403+27.67
END NORMAL CROWN
BEGIN S.E. RUNOFF

STA. 406+87.67
END S.E. RUNOFF
BEGIN FULL S.E.

OH WIRE
STA. 403+36.63
LOW WIRE EL. 765.32'
TEMP. 85° DEG.
2 POWER
1 TELEPHONE

PROPOSED STORMSEWER		
STR	PIPE SIZE	SLOPE
S1	18" RCP	-1.01%
S2	18" RCP	-1.25%
S3	18" RCP	-1.25%
S4	18" RCP	-4.97%
S5	18" RCP	-1.06%
S6	18" RCP	-0.91%

STA. 400+75.00
#25-P C.B. @ 11' LT.
74' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE ST (LT.)
STD. DWG. NOS. D-PB-1,D-CB-25P,
D-PE-18(A&B), D-PE-4
D.A. = 0.78 AC.
Q50 = 4.64 CFS
Q100 = 5.98 CFS
W.S. ELEV. (50) = 748.13(C.B.)
W.S. ELEV. (100) = 748.13(C.B.)

VPC 401+75.00
EL. 747.43

VPI 403+50.00
EL. 746.12
S.R. 109 STA. 403+55.64 =
ELBANKS ROAD STA. 29+70.49

VPT 405+25.00
EL. 743.14

VPC 406+50.00
EL. 741.02

VPI 407+50.00
EL. 739.32

VPT 408+50.00
EL. 736.86

XCP-S16
STA. 403+73.19, 259.30'(RT)
N 838430.6230
E 1799604.4080
ELEV 750.59
IRON PIN W/ CAP

XCP-S17
STA. 403+74.66, -126.88'(LT)
N 838429.2180
E 1799218.2280
ELEV 747.54
IRON PIN W/ CAP

STA. 403+46
3" WATER

MH
STA. 407+09.10
88.59' (RT)
TOP 739.74
INVERT 733.49

6" FMS

STA. 408+32
8" SA
STA. 408+85
6" FMS

EXISTING GROUND

-0.75% | -1.70% | -1.70% | -2.46%

VC = 350.00'
K = 368
V = 70 MPH

VC = 200.00'
K = 263
V = 70 MPH

4' F.B. DT. LT. | 3.00% | V DT. LT. | 6.00% | 1.00% V DT. RT. | 1.50% | 0.50% | 2.00% | 1.00% V DT. LT. | 1.00% | 2.00% V DT. RT. | 4.40% | 6.50% V DT. RT. | 9.00% | 4' F.B. DT. RT. | 12.00% | 10.00% | 15.50% | 4' F.B. DT. LT. | 13.50% | 4.50% | 4' F.B. DT. RT. | -10.00% | 2' F.B. DT. RT.

STATION 397+60	
DRAINAGE AREA	3 @ 18'X 9',75° SKEW CONCRETE BOX BRIDGE
DESIGN DISCHARGE (100 YR)	SKEWED 80° RT. TO CENTERLINE STATION 397+60.00
100 YR BACKWATER	0.75 SQ. MI.
100 YR VELOCITY	551 CFS
500 YR DISCHARGE	1.89 FT AT EL 722.39
INLET ELEVATION	2.61 FPS
OUTLET ELEVATION	743 CFS AT EL 722.89
APPROACH OVERTOPPING ELEVATION	715.00
STANDARD DRAWING NUMBERS	714.00
CLASS "A" CONCRETE	747.25
STEEL BAR REINFORCING	STD-17-106
FOUNDATION FILL MATERIAL	3203 C.Y.
	416810 LB.
	633 C.Y.

795 790 785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700

397+00 | 398+00 | 399+00 | 400+00 | 401+00 | 402+00 | 403+00 | 404+00 | 405+00 | 406+00 | 407+00 | 408+00 | 409+00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 397+00 TO STA. 409+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

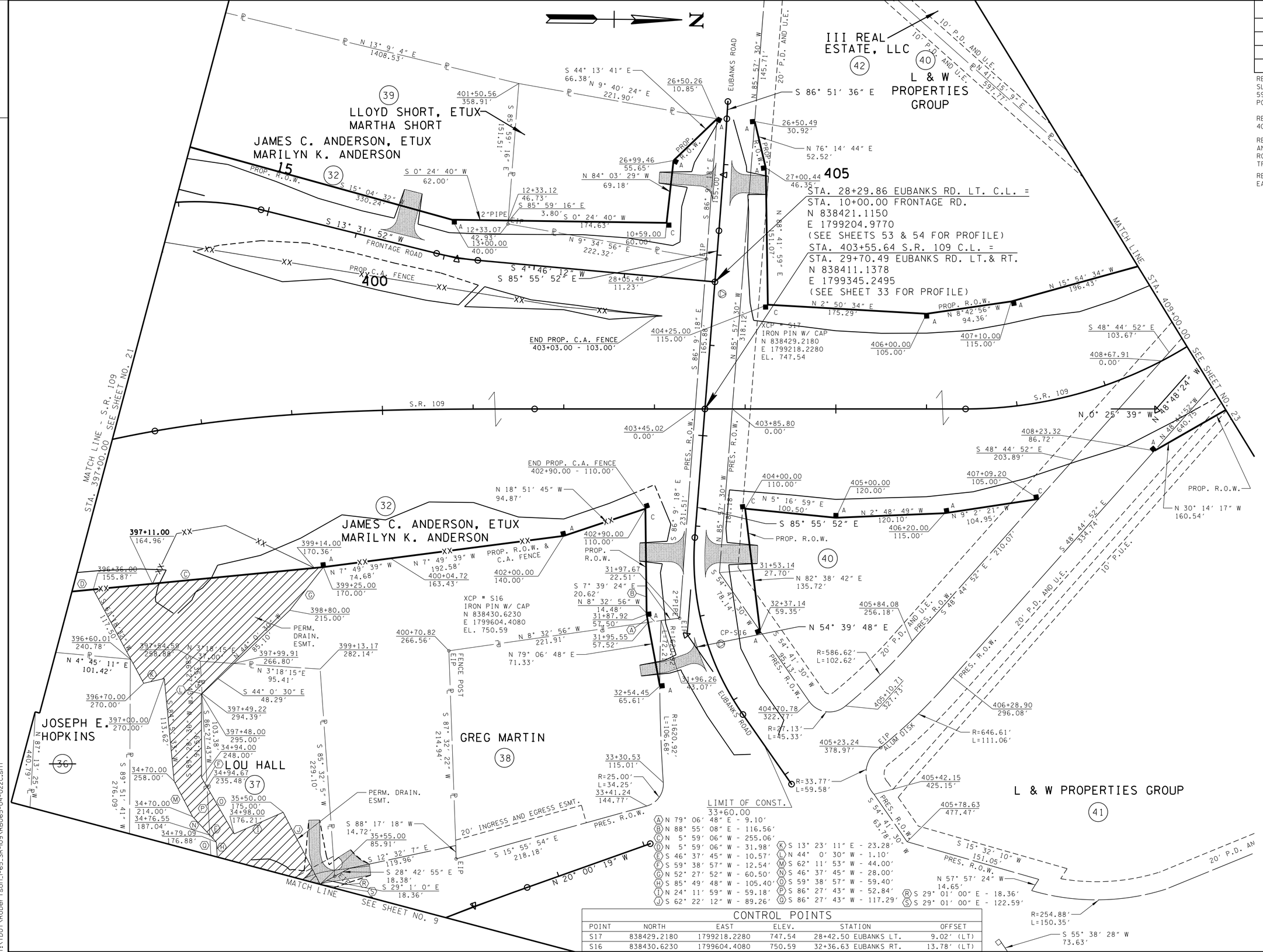
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	22C
CONST.	2014	STP/HPP/NH-I-65-3(113)	22C

REV. 12-09-13: UPDATED PROP. R.O.W., TOE OF SLOPES, & CHANGED DISTANCE FROM 516.98' TO 597.77' FOR TRACT 40. REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: UPDATED PROP. R.O.W FOR TRACT 40 RIGHT.

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT FOR TRACTS 32, & 37.



LIMIT OF CONST.
33+60.00

(A) N 79° 06' 48" E - 9.10'
(B) N 88° 55' 08" E - 116.56'
(C) N 5° 59' 06" W - 255.06'
(D) N 5° 59' 06" W - 31.98'
(E) S 46° 37' 45" W - 10.57'
(F) S 59° 38' 57" W - 12.54'
(G) N 52° 27' 52" W - 60.50'
(H) S 85° 49' 48" W - 105.40'
(I) N 24° 11' 59" W - 59.18'
(J) S 62° 22' 12" W - 89.26'
(K) S 13° 23' 11" E - 23.28'
(L) N 44° 0' 30" W - 1.10'
(M) S 62° 11' 53" W - 44.00'
(N) S 46° 37' 45" W - 28.00'
(O) S 59° 38' 57" W - 59.40'
(P) S 86° 27' 43" W - 52.84'
(Q) S 86° 27' 43" W - 117.29'
(R) S 29° 01' 00" E - 18.36'
(S) S 29° 01' 00" E - 122.59'

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S17	838429.2180	1799218.2280	747.54	28+42.50 EUBANKS LT.	9.02' (LT)
S16	838430.6230	1799604.4080	750.59	32+36.63 EUBANKS RT.	13.78' (LT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

S.R. 109
STA. 397+00 TO STA. 409+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	23
CONST.	2014	STP/HPP/NH-I-65-3(113)	23

REV. 12-09-13: UPDATED PROP. R.O.W. FOR TRACTS 40, 41, 42, 44, & 45. REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED PERM. DRAIN. ESMT. LT. STA. 420+80 FOR TRACT 44. ADDED FLD. ENT. RT. STA. 414+56 FOR TRACT 45.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.

III REAL ESTATE, LLC
42
L & W PROPERTIES GROUP
ASP.
410
40
1-S-MTL AND CONC.
INTERNATIONAL
INNOVATION
(BUS.)
THE INDUSTRIAL DEVELOPMENT
BOARD CITY OF SPRINGFIELD
44
1-S-CONC.
GASTITE
(BUS.)
THE INDUSTRIAL DEVELOPMENT
BOARD CITY OF SPRINGFIELD
48
420
CONC.
415
SILOS
END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109
CONC. RETAINING WALL
GRASS
CURB
RW
ASP.
GASTITE SERVICE
DOCKS 1-8 VISTOR
AND EMPLOYEE
PARKING SIGN
GASTITE
DOCKS 9-21
SHIPPING AND
RECEIVING
SIGN
GRAVEL
GRV
PILE OF
CONC. SLABS
METER
CP-S6
GPS = 74-065-05
N 839279.8614
E 1798870.9579
EL. 725.77
GPS = 74-065-06
N 839774.4751
E 1798306.1977
EL. 721.75
FLAG
GASTITE
SIGN
CITY OF PORTLAND
VAUGHN DRIVE
MIDWEST GAS TRANS OK
MATCH LINE STA. 409+00.00 SEE SHEET NO. 22
EXIST. PIPE
TO REMAIN
EXIST. TO
REMAIN
N 48° 48' 24" W
PT 410+38.03
METAL QUEST SIGN (LITE)
YARD HYDRANT
LANDSCAPING
NEW BREED
TRUCK
ENTRANCE
SIGN
CONC.
S.W.
L & W PROPERTIES GROUP
41
THE INDUSTRIAL
DEVELOPMENT BOARD
CITY OF SPRINGFIELD
45
THE INDUSTRIAL
DEVELOPMENT
BOARD CITY OF
SPRINGFIELD
47
L & W PROPERTIES GROUP
46
1-S-MTL AND CONC.
METAL QUEST
(BUS.)
END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

SEE SHEET 23C (R.O.W. DETAIL SHEET) FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S5	839279.8614	1798870.9579	725.77	414+26.49	30.61' (LT)
S6	839774.4751	1798306.1977	721.75	421+77.22	30.37' (LT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

S.R. 109
STA.409+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	23A
CONST.	2014	STP/HPP/NH-I-65-3(113)	23A

REV. 12-09-13: REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED FLD. ENT. RT. STA. 414+56 FOR TRACT 45. ADDED STORM SEWER LT. STA. 409+50 TO LT. STA. 415+30 & LT. STA. 415+30 TO STA. 420+80.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.

410 415 420

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

N

RW

STA. 410+56.00
24' BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
0+75.00

STA. 413+88.00
40' BUS. ENT.
NO S.D. REQD.
LIMIT OF CONST.
0+46.00

STA. 414+73.00
40' BUS. ENT.
NO S.D. REQD.
GT. EL. 724.25
IN. EL. 721.44
IN. EL. 717.67
OUT.EL. 717.50

STA. 419+67.00
40' BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
0+54.00

STA. 420+31.00
40' BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
0+55.00

GT. EL. 731.40
IN. EL. 728.48
OUT.EL. 728.36
18" RCP
IN.EL. 728.75

(48 #42S)

(47 ST)

EXIST. TO REMAIN
TOP-727.69
INV-725.05
INV-724.98

EXIST. TO REMAIN
TOP-725.28
INV-722.81
INV-722.79

EXIST. TO REMAIN

GT. EL. 722.60
IN. EL. 716.97
OUT.EL. 716.80

GT. EL. 721.40
IN. EL. 716.07
OUT.EL. 715.90

GT. EL. 720.15
IN. EL. 714.82
OUT.EL. 714.65

GT. EL. 719.35
IN. EL. 714.07
OUT.EL. 713.90

(128 #42SB) (128A #42SB) (129 #42SB) (130 #42SB)

LIMIT OF CONST.
(127 #3MH) 0+48.00

(49 A)

4:1 SOD

CLASS "B"
B=4'
OUT.EL. D=2.0'
713.15 (14' LENGTH)

MATCH LINE STA. 409+00.00 SEE SHEET NO. 22A

24'

12'

STA. 409+30.00 (18' LT, 30' RT)
END PAVEMENT AND MEDIAN TAPER

240' PAVEMENT TAPER

36" RCP

IN.EL. 720.50

V TRM (CL III) V

N 48° 48' 24" W

STA. 414+50.00
BEGIN PAVEMENT TAPER

EXIST. TO REMAIN

LIMIT OF CONST.
1+20.00
STA. 414+56.00
20' FLD. ENT.
NO S.D. REQD.

320' PAVEMENT TAPER

LIMIT OF CONST.
0+80.00

STA. 416+36.00
18' BUS. ENT.
NO S.D. REQD.

STA. 417+70.00
END PAVEMENT TAPER
MATCH EXISTING

S.R. 109

STA. 419+95.00
40' BUS. ENT.
NO S.D. REQD.

LIMIT OF CONST.
0+30.50

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

A A

EXIST. 18" RCP

36" RCP

36" RCP

REINF. SLAB

ELEV. 724.25

4" MAX EXPOSED

24"

9" SLAB TOP

FOR LID AND LID REINFORCING DETAILS, SEE STANDARD DRAWINGS D-MH-3, D-MH-3A, & D-MH-3B

EXIST. 18" RCP

INV. 721.44

INV. 717.50

36" RCP

8"

84"

8"

SECTION A-A

36" RCP

NOTES:
1. REFER TO STANDARD DRAWING D-MH-2 FOR DETAILS NOT SHOWN.
2. ALL COST FOR MATERIALS AND LABOR FOR PLACEMENT OF MANHOLE TO BE PAID UNDER ITEMS:
   604-01.01 CLASS "A" CONCRETE (ROADWAY)
   604-01.02 STEEL BAR REINFORCEMENT (ROADWAY)
   204-08 FOUNDATION FILL MATERIAL
3. CONTRACTOR TO GRADE AROUND MANHOLE SUCH THAT NO MORE THAN 4" OF TOP SLAB IS EXPOSED.

SPECIAL DETAIL STRUCTURE 127
#3 MANHOLE (MODIFIED)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.409+00 TO E.O.P.

SCALE: 1"=50'

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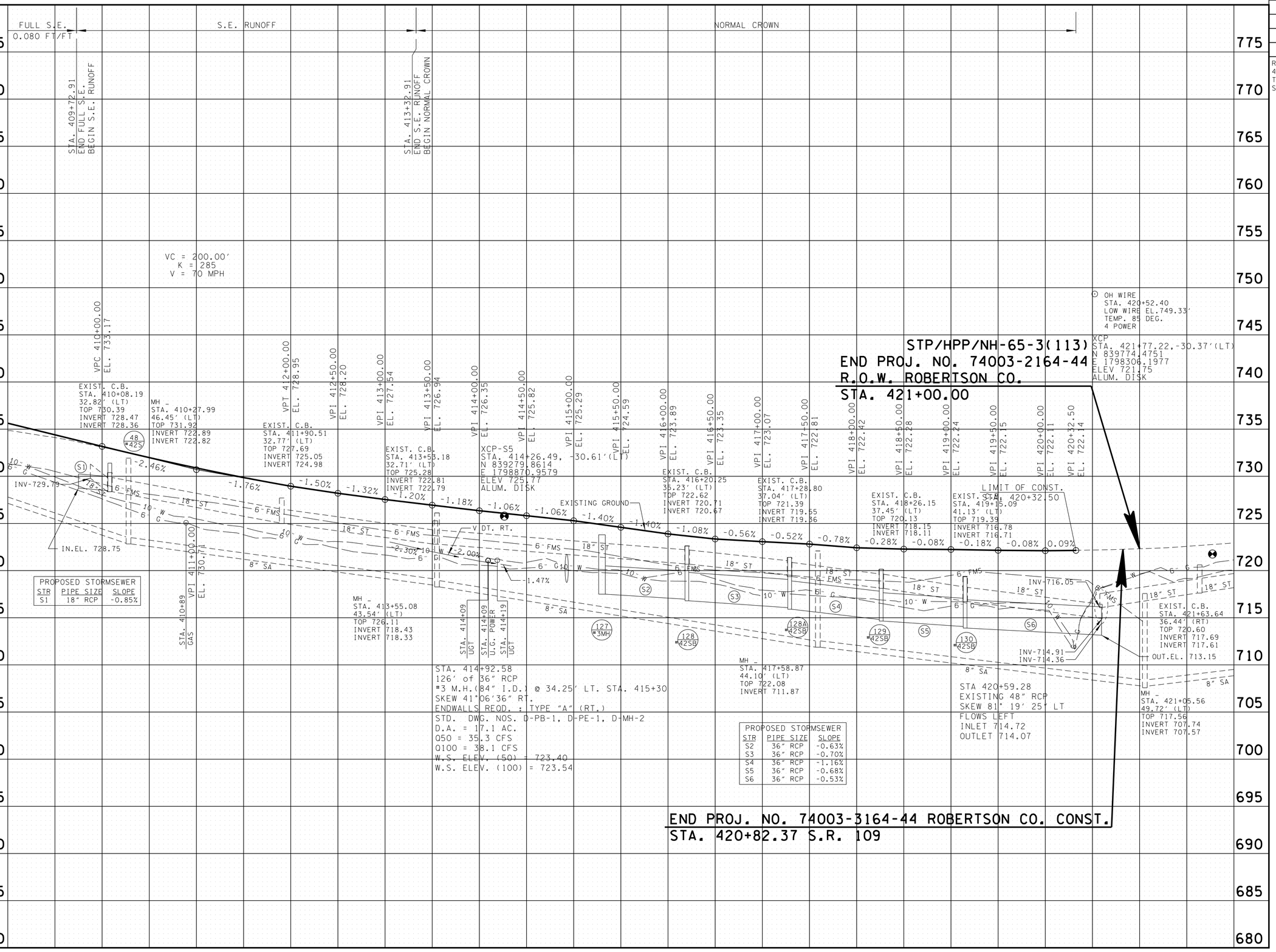
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	23B
CONST.	2014	STP/HPP/NH-I-65-3(113)	23B

REV. 12-09-13: ADDED STORM SEWER LT. STA. 409+50 TO LT. STA. 415+30 & LT. STA. 415+30 TO RT. STA. 420+80. ADDED SPECIAL DITCH RT. STA. 413+00 TO RT. STA. 414+34.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 409+00 TO E.O.P.
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	23C
CONST.	2014	STP/HPP/NH-I-65-3(113)	23C

REV. 12-09-13: UPDATED PROP. R.O.W. FOR TRACTS 40, 41, 42, 44, & 45. REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED PERM. DRAIN. ESMT. LT. STA. 420+80 FOR TRACT 44. ADDED FLD. ENT. RT. STA. 414+56 FOR TRACT 45.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.

III REAL ESTATE, LLC
(42)

L & W PROPERTIES GROUP
(40)

410

415

THE INDUSTRIAL DEVELOPMENT
BOARD CITY OF SPRINGFIELD
(44)

THE INDUSTRIAL DEVELOPMENT
BOARD CITY OF SPRINGFIELD
(48)

420

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

N

MATCH LINE STA. 409+00.00 SEE SHEET NO. 22

Ⓐ S 48° 44′ 52″ E - 103.67′
Ⓑ N 41° 15′ 09″ E - 61.07′

Ⓒ 420+55.00 - 54.80′
Ⓓ N 49°33′58″ W - 15.00′
Ⓔ S 59°33′09″ W - 47.62′
Ⓕ N 30°22′18″ W - 31.62′
Ⓖ N 62°36′22″ E - 54.78′
Ⓗ 420+80.00 - 39.00′
Ⓘ N 87°14′43″ E - 13.89′
Ⓙ N 41°11′36″ E - 25.64′
Ⓚ 420+70.00 - 55.00′

N 41° 15′ 9″ E
597.77′

10′ P.D. AND U.E.

N 15° 54′ 34″ W
196.43′

409+60.83
86.38′

N 15° 54′ 34″ W
26.68′

409+90.00
75.00′

N 2° 52′ 36″ E
45.76′

10′ P.D. AND U.E.
N 41° 15′ 9″ E
938.28′

GPS = 74-065-05
N 839279.8614
E 1798870.9579
EL. 725.77

414+30.67
46.53′

N 41° 15′ 9″ E
16.51′

414+30.66
30.02′

PROP. R.O.W.
20′ P.D. AND U.E. N 49° 33′ 58″ W - 404.57′
S 48° 44′ 52″ E PRES. R.O.W.
455.35′

N 49° 33′ 58″ W - 624.38′
N 48° 44′ 51″ W
639.34′
PRES. & PROP. R.O.W.

421+00.00
90.00′

420+70.00
100.00′

PERM. DRAIN. ESMT.

DRAINAGE EASEMENT FOR RETENTION AREA

S 47° 55′ 52″ W
1236.97′

GPS = 74-065-06
N 839774.4751
E 1798306.1977
EL. 721.75

CP-S6
N 48° 44′ 51″ W
54.40′

421+24.40
29.30′

419+37.53
30.50′

420+70.00
29.36′

409+71.39
26.01′

410+25.00
41.00′

N 48° 44′ 52″ W
640.75′

20′ P.D. AND U.E.

10′ P.U.E.
PROP. R.O.W.
N 46° 24′ 4″ W
227.66′

409+59.02
88.36′

N 30° 14′ 17″ W
160.54′

411+72.00
90.00′

N 48° 48′ 24″ W
261.05′

N 48° 48′ 24″ W

414+33.05
90.00′

414+33.11
29.98′

S.R. 109
N 41° 15′ 9″ E
60.02′EIP

N 48° 44′ 52″ W
396.89′

PRES. R.O.W.

N 52° 33′ 32″ W
360.77′

414+70.00
54.00′

S 41° 11′ 36″ W
36.00′

414+70.00
90.00′

N 48° 48′ 24″ W
36.95′

N 48° 44′ 52″ W
107.53′

418+30.00
30.39′

R=30.00′
L=47.13′

N 48° 44′ 52″ W
90.00′

420+27.53
30.59′

419+67.50
60.53′

N 48° 44′ 52″ W
500.00′

10′ P.U.E.

20′ P.D. AND U.E.

L & W PROPERTIES GROUP
(41)

(45)

THE INDUSTRIAL
DEVELOPMENT BOARD
CITY OF SPRINGFIELD

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

10′ P.D. AND U.E.
N 41° 15′ 9″ E
564.96′

10′ P.D. AND U.E.

N 41° 15′ 8″ E
888.09′

N 41° 15′ 8″ E
1019.66′

25′ P.D. AND U.E.

THE INDUSTRIAL
DEVELOPMENT
BOARD CITY OF
SPRINGFIELD
(47)

L & W PROPERTIES GROUP
(46)

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S5	839279.8614	1798870.9579	725.77	414+26.49	30.61′ (LT)
S6	839774.4751	1798306.1977	721.75	421+77.22	30.37′ (LT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

S.R. 109
STA.409+00 TO E.O.P.

SCALE: 1″=50′

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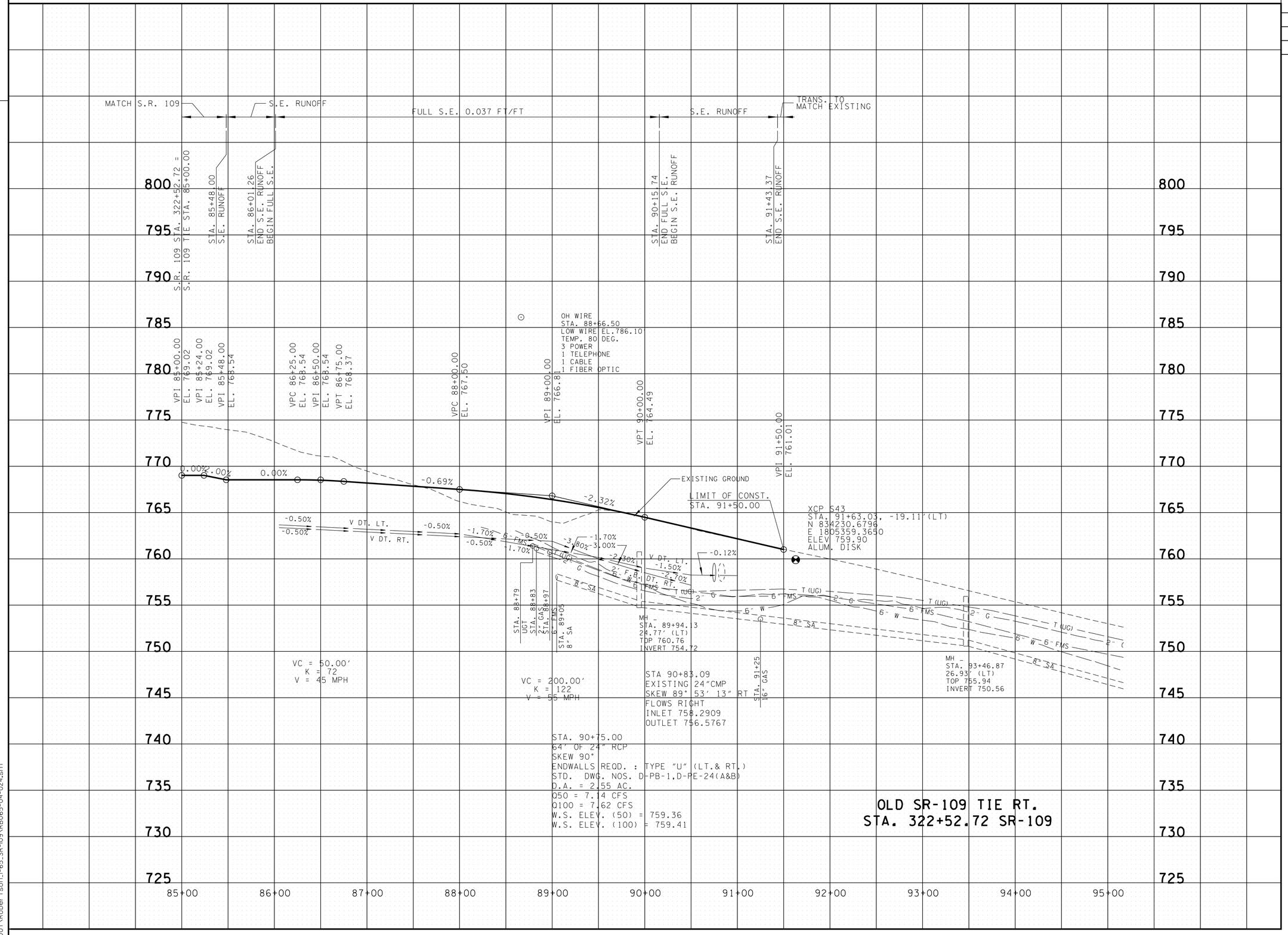
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24
CONST.	2014	STP/HPP/NH-I-65-3(113)	24



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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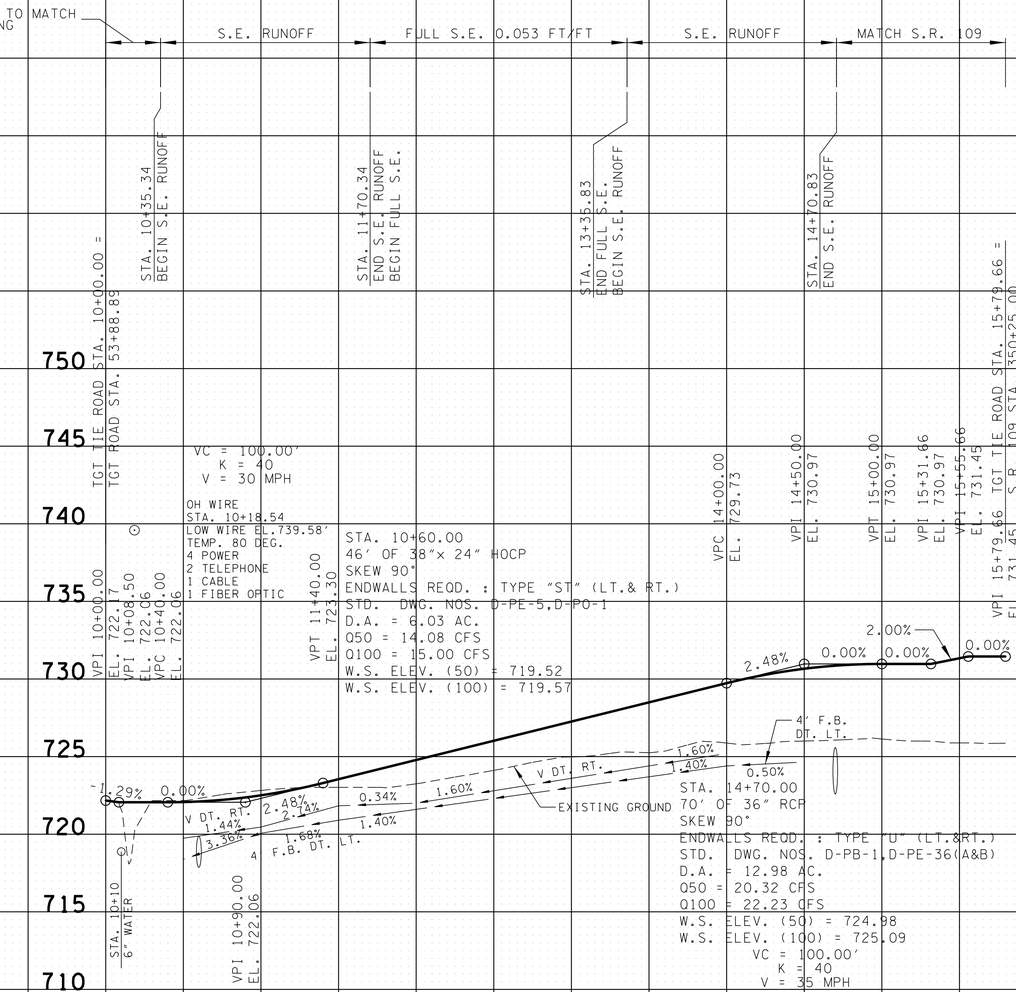
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24A
CONST.	2014	STP/HPP/NH-I-65-3(113)	25



TGT ROAD TIE LT.
STA. 350+25.00 SR-109

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

TGT ROAD TIE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24B
CONST.	2014	STP/HPP/NH-I-65-3(113)	26

770
765
760
755
750
745
740
735
730
725
720
715
710
705
700
695
690

OH WIRE
STA. 49+02.23
LOW WIRE EL.749.07'
TEMP. 70° DEG.
1 POWER
1 TELEPHONE
2 CABLE

OH WIRE
STA. 51+60.03
LOW WIRE EL.742.82'
TEMP. 96° DEG.
1 POWER
2 CABLE

OH WIRE
STA. 53+52.46
LOW WIRE EL.738.96'
TEMP. 96° DEG.
4 POWER
1 TELEPHONE
2 CABLE

TGT TIE ROAD STA. 10+00.00 = TGT ROAD STA. 53+88.89

OH WIRE
STA. 55+16.25
LOW WIRE EL.756.76'
TEMP. 96° DEG.
2 POWER

OH WIRE
STA. 57+04.88
LOW WIRE EL.745.49'
TEMP. 96° DEG.
1 TELEPHONE
1 CABLE

OH WIRE
STA. 59+75.03
LOW WIRE EL.746.39'
TEMP. 96° DEG.
1 TELEPHONE

XCP-S12
STA. 48+83.97, 25.82'(RT)
N 834108.1081
E 1802968.6997
ELEV 735.20
ALUM. DISK

EXISTING GROUND

EXIST. 14' X 9' BOX CULV.

STA 52+77.53
EXISTING 14'X9' BOX CULVERT
SKEW 90°00'00" LT
FLOWS LEFT
INLET 714.32
OUTLET 714.38

MATCH LINE SEE SHEET 27

48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

EXISTING TGT ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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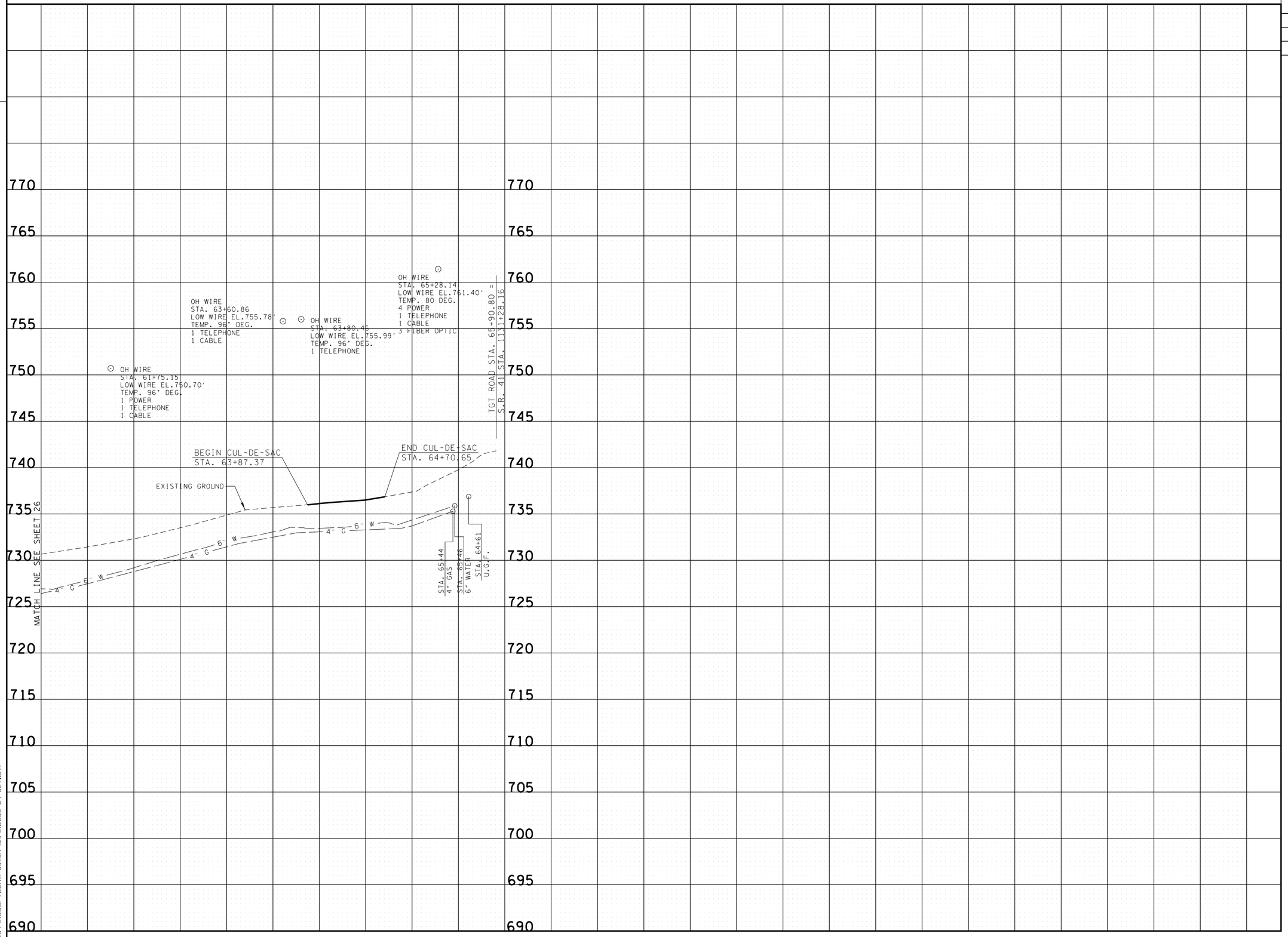
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24C
CONST.	2014	STP/HPP/NH-I-65-3(113)	27



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

EXISTING TGT ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24D
CONST.	2014	STP/HPP/NH-I-65-3(113)	28

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

STA. 1126+50.00
20' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.)
STD. DWG. NOS. D-CB-12LP,D-PB-1,D-PE-4
D.A. = 0.21 AC.
Q10 = 1.39 CFS
W.S. ELEV. (10) = 732.27

OH WIRE
STA. 1125+49.38
LOW WIRE EL.755.60'
TEMP. 96° DEG.
1 POWER

STA. 1125+00.00
20' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.)
STD. DWG. NOS. D-CB-12LP,D-PB-1,D-PE-4
D.A. = 0.11 AC.
Q10 = 0.84 CFS
W.S. ELEV. (10) = 729.98

STA. 1123+50.00
18' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST"
STD. DWG. NOS. D-CB-12LP,D-PB-1,D-PE-4
D.A. = 0.09 AC.
Q10 = 0.59 CFS
W.S. ELEV. (10) = 727.73

STA. 1122+50.00
LIMIT OF CONST.

STA. 1123+22.00
20' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.)
STD. DWG. NOS. D-CB-12LP,D-PB-1,D-PE-4
D.A. = 0.11 AC.
Q10 = 0.67 CFS
W.S. ELEV. (10) = 726.97

STA. 1125+00.00
20' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (RT.)
STD. DWG. NOS. D-CB-12LP,D-PB-1,D-PE-4
D.A. = 0.10 AC.
Q10 = 0.99 CFS
W.S. ELEV. (10) = 730.44

STA. 1126+50.00
20' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (RT.)
STD. DWG. NOS. D-CB-12LP,D-PB-1,D-PE-4
D.A. = 0.53 AC.
Q10 = 3.07 CFS
W.S. ELEV. (10) = 732.92

STA. 1129+50.00 LT.
STD. DWG. NOS. D-CB-12LP,D-PB-1
D.A. = 0.22 AC.
Q10 = 1.32 CFS
W.S. ELEV. (10) = 737.81

STA. 1129+50.00 RT.
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-CB-12LP,D-PB-1
D.A. = 0.26 AC.
Q10 = 1.55 CFS
W.S. ELEV. (10) = 739.96

OH WIRE
STA. 1127+24.81
LOW WIRE EL.754.10'
TEMP. 96° DEG.
2 POWER
2 TELEPHONE
1 CABLE

OH WIRE
STA. 1130+11.71
LOW WIRE EL.758.09'
TEMP. 96° DEG.
2 POWER
1 TELEPHONE
1 CABLE

OH WIRE
STA. 1131+75.26
LOW WIRE EL.760.56'
TEMP. 96° DEG.
1 TELEPHONE
2 CABLE

OH WIRE
STA. 1131+89.18
LOW WIRE EL.762.01'
TEMP. 96° DEG.
7 BRACE
1 TELEPHONE

VPI 1130+59.50
EL. 741.64

S.R. 41 (U.S. 31W) STA. 1131+28.16 =
TGT ROAD STA. 65+90.80
VPI 1131+45.00
EL. 741.91

S.R. 41 (U.S. 31W) STA. 1132+15.02 =
S.R. 109 STA. 362+36.28 EL. 742.40

STA. 1129+42
2" GAS

STA. 1131+83
6" WATER

STA 1131+34.23
EXISTING 24"RCP
SKEW 81° 23' 37" LT
FLOWS RIGHT

INLET 736.1775
OUTLET 736.1542

STA. 1131+25.00
100' OF 30" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.& RT.)
STD. DWG. NOS. D-PB-1,D-PE-4
D.A. = 8.89 AC.
Q50 = 13.09 CFS
Q100 = 14.23 CFS
W.S. ELEV. (50) = 737.25
W.S. ELEV. (100) = 737.33

EXISTING GROUND
OVERLAY EXISTING
PROP. 18" RCP (RT.)
PROP. 18" RCP (LT.)
V DT. RT.
V DT. LT.
F (UG)

SR-41 (US-31W) LT.
STA. 1132+15.02 SR-109

770 765 760 755 750 745 740 735 730 725 720 715 710 705 700

1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00 1131+00 1132+00

SR41 ROBERTSON CO.

EXC. (UNCLASSIFIED) 4,277 C.Y.

COMMON 4,277 C.Y. INCL. 0 C.Y. MAINLINE COMMON (SHR. 20%)
4,277 C.Y. SIDEROAD COMMON (SHR. 20%)

ROCK 0 C.Y. (SWELL 15%)

EXC. / EMB.

EMB. 2,915 C.Y. INCL. 0 C.Y. FROM MAINLINE
2,915 C.Y. FROM SIDE ROAD

$\frac{\text{EXC. (COM.)}}{1.20}$ + [EXC. (ROCK) x 1.15] VS. EMB.

$\frac{4,277}{1.20}$ + [0 C.Y. x 1.15] VS. 2,915 C.Y.

3,564 VS. 2,915 C.Y.

649 C.Y. X 1.20 = 779 C.Y. UNSHRUNK EXCESS

SR41 SUMNER CO.

EXC. (UNCLASSIFIED) 3,405 C.Y.

COMMON 3,405 C.Y. INCL. 0 C.Y. MAINLINE COMMON (SHR. 20%)
3,405 C.Y. SIDEROAD COMMON (SHR. 20%)

ROCK 0 C.Y. (SWELL 15%)

EXC. / EMB.

EMB. 4,150 C.Y. INCL. 0 C.Y. FROM MAINLINE
4,150 C.Y. FROM SIDE ROAD

$\frac{\text{EXC. (COM.)}}{1.20}$ + [EXC. (ROCK) x 1.15] VS. EMB.

$\frac{3,405}{1.20}$ + [0 C.Y. x 1.15] VS. 4,150 C.Y.

2,838 VS. 4,150 C.Y.

1,312 C.Y. (BORROW) X 1.20 = 1,574 C.Y. BORROW UNCLASSIFIED REQ'D.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

SR-41 (US-31W) LT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24E
CONST.	2014	STP/HPP/NH-I-65-3(113)	29

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

S.R. 41 (U.S. 31W) STA. 1132+15.02 = S.R. 109 STA. 362+36.28 EL. 742.40

VPI 1132+64.07 EL. 742.08
VPC 1132+65.00 EL. 742.08

STA. 1133+12.00
18' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "A" (LT.)
STD. DWG. NOS. D-PB-1,D-PE-1
D.A. = 8.24 AC.
Q50 = 24.47 CFS
Q100 = 26.10 CFS
W.S. ELEV. (50) = 738.22
W.S. ELEV. (100) = 738.30

VC = 170.00'
K = 121
V = 55 MPH

VPT 1134+35.00 EL. 743.27

OH WIRE
STA. 1134+91.40
LOW WIRE EL.769.94'
TEMP. 96° DEG.
1 POWER

OH WIRE
STA. 1135+77.76
LOW WIRE EL.763.75'
TEMP. 96° DEG.
1 POWER

OH WIRE
STA. 1137+34.94
LOW WIRE EL.766.07'
TEMP. 96° DEG.
TELEPHONE

OH WIRE
STA. 1140+24.40
LOW WIRE EL.777.34'
TEMP. 96° DEG.
1 TELEPHONE

VPI 1135+50.00 EL. 744.87
VPI 1136+00.00 EL. 745.80
VPI 1136+50.00 EL. 746.75
VPI 1137+00.00 EL. 747.63
VPI 1137+50.00 EL. 748.50
VPI 1138+00.00 EL. 749.30
VPI 1138+50.00 EL. 750.00
VPI 1139+00.00 EL. 750.56
VPI 1139+50.00 EL. 751.03
VPI 1140+00.00 EL. 751.41
VPI 1140+50.00 EL. 751.73
VPI 1141+00.00 EL. 751.90
VPI 1141+50.00 EL. 752.06
VPI 1142+00.00 EL. 752.11
VPI 1142+50.00 EL. 752.00
VPI 1143+00.00 EL. 751.80

OVERLAY EXISTING
EXISTING GROUND

-0.65% 0.00% 1.40% 1.86% 1.89% 1.77% 1.73% 1.61% 1.40% 1.12% 0.94% 0.75%W 0.65% 0.33% 0.32%W 0.11% -0.22% -0.40%

V DT. LT.
LT. PROP. 18" RCP -2.23%
RT. PROP. 18" RCP -2.51%
LT. PROP. 18" RCP -1.75%
RT. PROP. 18" RCP -1.75%
LT. PROP. 18" RCP -1.06%
RT. PROP. 18" RCP -1.12%
2.63% 0.50% 1.20% 2.00% 2.20% 0.58% 3.70% 3.42% 2.30%

F (UG) 12" W 6" W 4" G

115 #14 | 115A #12 | 116 #14 | 68A #26 | 113 #12 | 114 #12 | 111 #12 | 112 #12 | 109 #12 | 110 #12

S1 S2

STA. 1132+38 6" CMS

VPI 1133+50.00 EL. 742.08

XCP-S10
STA. 1132+21.96, -46.81'(LT)
N 835524.3821
E 1801875.0927
ELEV 740.15
IRON PIN W/ CAP

PROPOSED STORMSEWER LT.

STR	PIPE SIZE	SLOPE
S1	18" RCP	-1.63%
S2	18" RCP	-1.14%

STA. 1133+12.00
#14-S C.B. @ 33' LT.
65' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-14S
D.A. = 8.55 AC.
Q50 = 26.56 CFS
Q100 = 28.39 CFS
W.S. ELEV. (50) = 742.11 (C.B.)
W.S. ELEV. (100) = 742.12 (C.B.)

STA. 1133+12.00
#14-S C.B. @ 33' RT.
28' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "A" (RT.)
STD. DWG. NOS. D-PB-1,D-PE-1
D-CB-14S
D.A. = 8.87 AC.
Q50 = 27.94 CFS
Q100 = 29.87 CFS
W.S. ELEV. (50) = 742.00 (C.B.)
W.S. ELEV. (100) = 742.02 (C.B.)

770 765 760 755 750 745 740 735 730 725 720 715

1133+00 1134+00 1135+00 1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1143+00

MATCH LINE SEE SHEET 30

SR-41 (US-31W) RT.
STA.1132+15.02 SR-109

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107296
STATE OF TENNESSEE

SR-41 (US-31W) RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24F
CONST.	2014	STP/HPP/NH-I-65-3(113)	30

REV. 01-27-14: CORRECTED TVA LOW WIRE ELEVATION OF POWER LINES CROSSING AT STA. 1150+01.32 FROM 856.28 TO 801.28.

VC = 900.00'
K = 1698
V = 70 MPH

OH WIRE
STA. 1155+64.46
LOW WIRE EL.771.02'
TEMP. 90 DEG.
4 POWER
1 TELEPHONE

VPT 1161+25.29
EL. 754.39

ADJOINING PROJECT
KENTUCKY
DF52 107 031W 000-006
STPR 100-15

MH AND 30" STORM SEWER SYSTEM TO BE CONSTRUCTED AS PART OF ADJOINING KYTC PROJECT

MATCHLINE THIS SHEET

0.94%

APPROX. EXIST. GROUND

VPI 1156+75.29
EL. 750.18

LIMIT OF CONST.
STA. 99+00.00

OVERLAY EXISTING

EXISTING GROUND

STA. 99+44
4" FMS
STA. 99+45
U.G.F.O.

STA. 99+55
12" WATER

99+00 100+00

FRED WHITE BLVD. LT.
STA. 1144+88.79 S.R. 41

OH WIRE
STA. 1143+63.93
LOW WIRE EL.777.71'
TEMP. 90 DEG.
4 POWER
1 TELEPHONE

OH WIRE
STA. 1144+78.45
LOW WIRE EL.772.62'
TEMP. 90 DEG.
1 POWER

OH WIRE
STA. 1150+01.32
LOW WIRE EL.801.28'(NTS)
TEMP. 90 DEG.
3 POWER (TVA)

OH WIRE
STA. 1155+18.51
LOW WIRE EL.768.78'
TEMP. 90 DEG.
1 CABLE

OH WIRE
STA. 1153+45.48
LOW WIRE EL.766.55'
TEMP. 90 DEG.
1 CABLE

OH WIRE
STA. 1150+65.76
LOW WIRE EL.763.52'
TEMP. 90 DEG.
1 CABLE

VC = 180.00'
K = 134
V = 55 MPH

VPI 1143+00.00 EL. 751.80
VPI 1143+50.00 EL. 751.57
VPI 1144+00.00 EL. 751.30
VPI 1144+50.00 EL. 750.72
VPI 1145+00.00 EL. 750.09
VPI 1146+00.00 EL. 748.87
VPI 1146+51.47 EL. 748.30
VPC 1147+36.47 EL. 747.51
VPT 1149+16.47 EL. 747.05
VPC 1152+25.29 EL. 748.32

STA. 1148+61.00
#14-S C.B. @ 33' LT.
18' OF 30" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (LT.) W/O GRATE
STD. DWG. NOS. D-RB-1,D-PE-30 (A&B)(LT.)
ID-CB-14S
D.A. = 2.38 AC.
Q50 = 12.28 CFS
Q100 = 14.86 CFS
W.S. ELEV. (50) = 746.32 (C.B.)
W.S. ELEV. (100) = 746.37 (C.B.)

OVERLAY EXISTING

MANHOLE, ENDWALL AND 30" STORM SEWER SYSTEM TO BE CONSTRUCTED AS PART OF ADJOINING KYTC PROJECT

ADJOINING PROJECT
KENTUCKY
DF52 107 031W 000-006
STPR 100-15

LIMIT OF CONST.
STA. 1154+76.47

EXISTING GROUND

LT. PROP. 24" RCP -1.36%
LT. PROP. 18" RCP -1.42%
RT. PROP. 18" RCP -1.05%
LT. PROP. 18" RCP -0.60%
RT. PROP. 18" RCP -0.56%
LT. PROP. 24" RCP -0.58%
LT. PROP. 24" RCP -0.48%
LT. PROP. 18" RCP -0.51%
LT. PROP. 18" RCP -0.48%
RT. PROP. 18" RCP -0.41%
RT. PROP. 18" RCP -0.43%
RT. PROP. 18" RCP -0.47%
RT. PROP. 18" RCP -1.95%

-0.46% -0.54% -1.26% -1.22% -1.11% -0.93% 0.41% 0.41% 0.41%

107 #12 | 108 #12 | 106 #14 | 105 #14 | 104A #12 | 103A #12 | 103 #14 | 104 #14 | 103B #12 | 104B #12 | 101A #14 | 102A #14 | 101 #12 | 102 #12 | 101B #12

STA. 1144+49
4" GAS

STA. 1145+24
6" WATER

STA. 1145+73
30" GAS

STA. 1146+02
30" GAS

VPI 1148+26.47
EL. 746.68

STA. 1154+38
8" SAN SEWER

MATCH LINE SEE SHEET 29

MATCHLINE THIS SHEET

83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.

NOTE: ELEVATION AT TIE-IN LOCATION IS TO BE FIELD ADJUSTED TO MATCH ADJOINING KENTUCKY PROJECT.

SR-41 (US-31W) RT.
STA.1132+15.02 SR-109

UNOFFICIAL SET
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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
BY COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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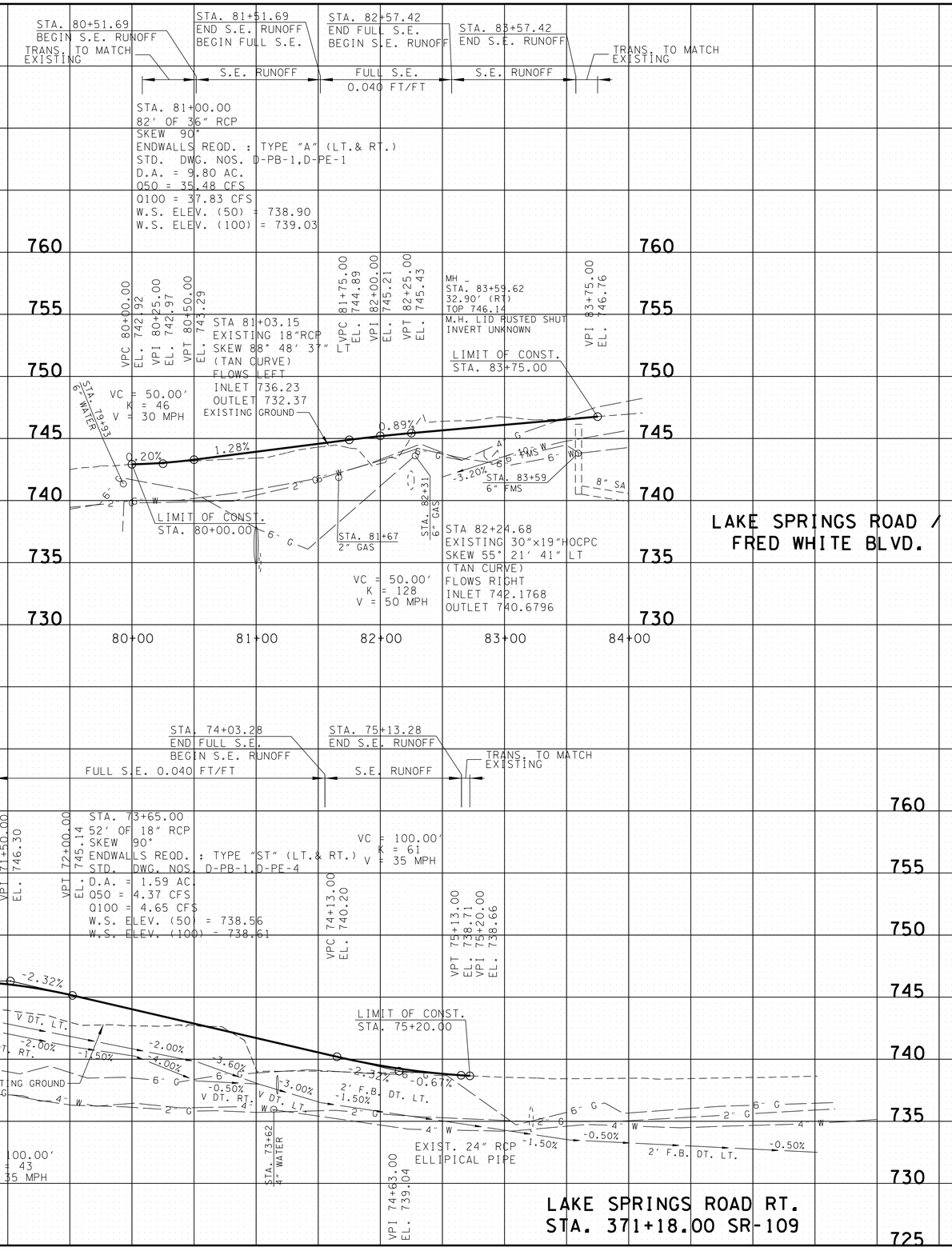
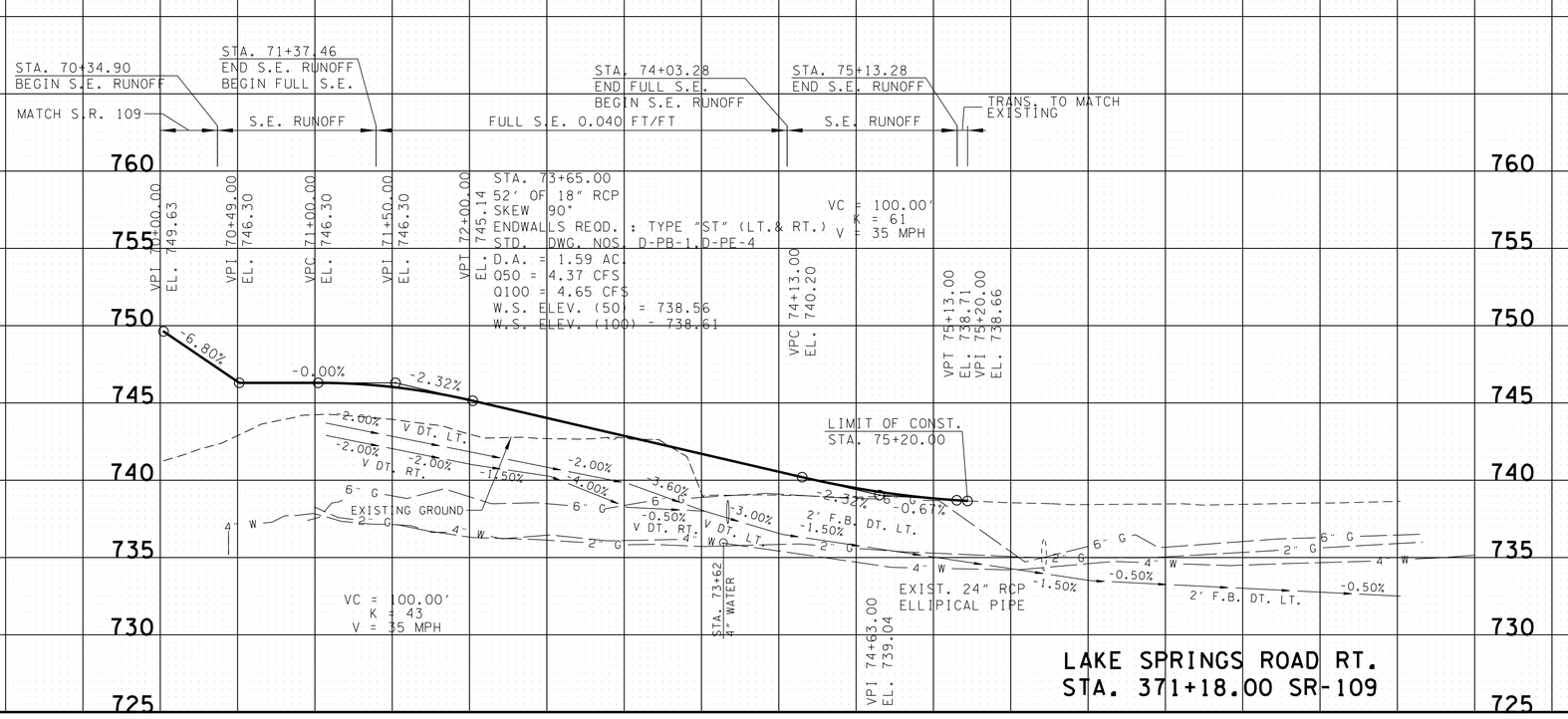
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24G
CONST.	2014	STP/HPP/NH-I-65-3(113)	31





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DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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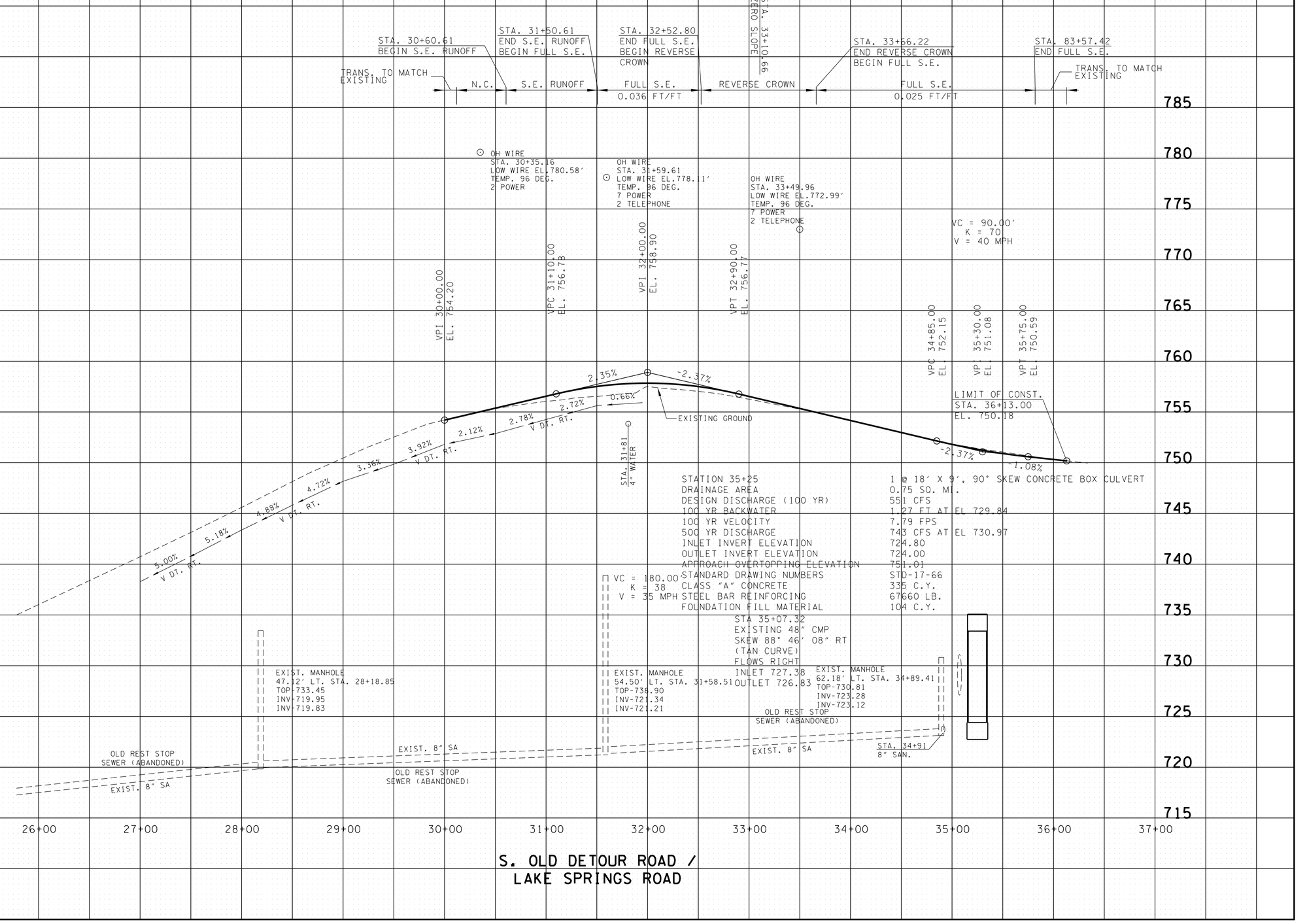
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24H
CONST.	2014	STP/HPP/NH-I-65-3(113)	32



S. OLD DETOUR ROAD /
LAKE SPRINGS ROAD

UNOFFICIAL SET
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COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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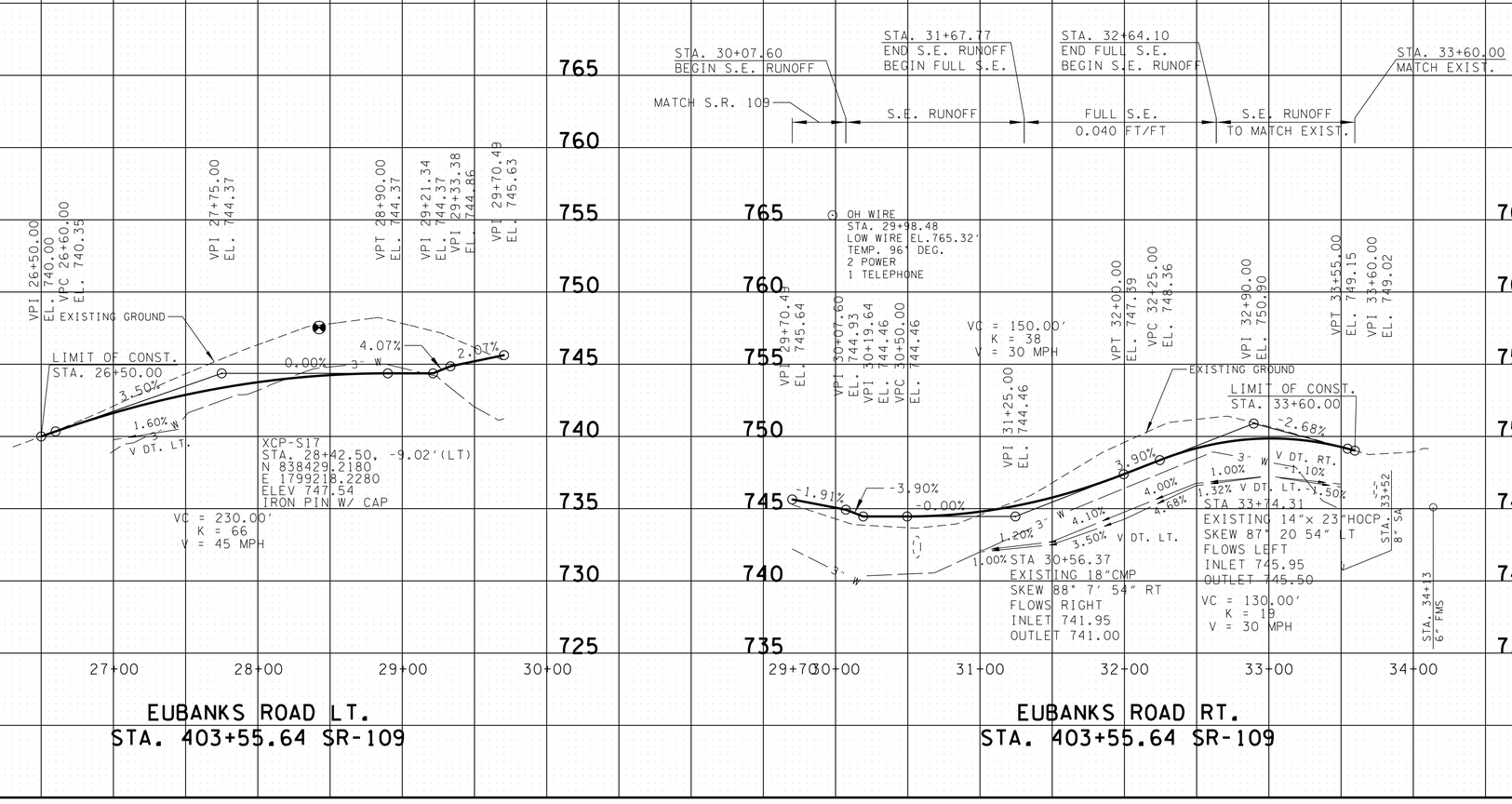
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24
CONST.	2014	STP/HPP/NH-I-65-3(113)	33

UNOFFICIAL SET
NOT FOR BIDDING



EUBANKS ROAD LT.
STA. 403+55.64 SR-109

EUBANKS ROAD RT.
STA. 403+55.64 SR-109

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

EUBANKS ROAD
LT. & RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
SIDE ROADS
AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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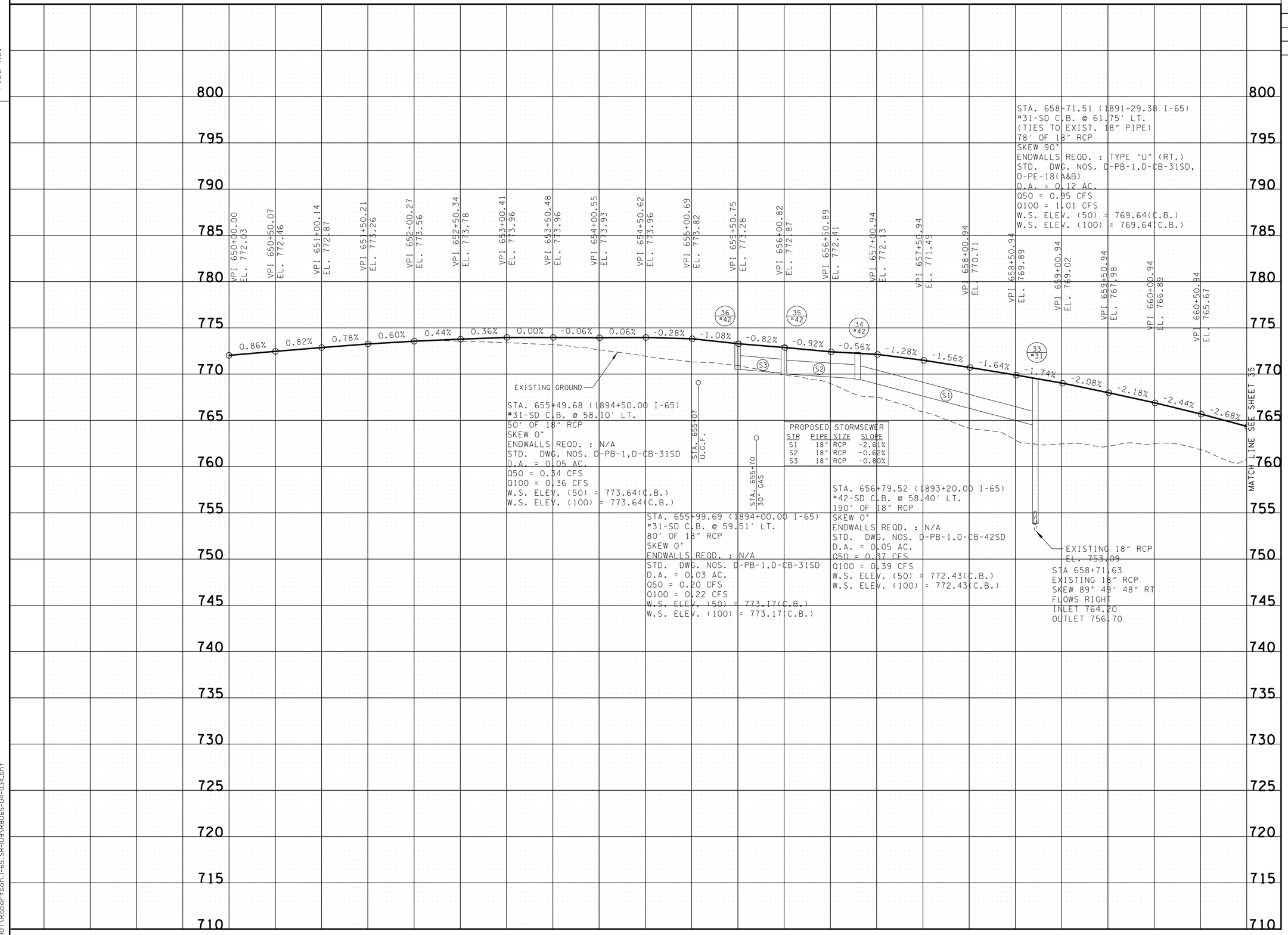
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24J
CONST.	2014	STP/HPP/NH-I-65-3(113)	34



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COMMERCE
No. 107206
STATE OF TENNESSEE

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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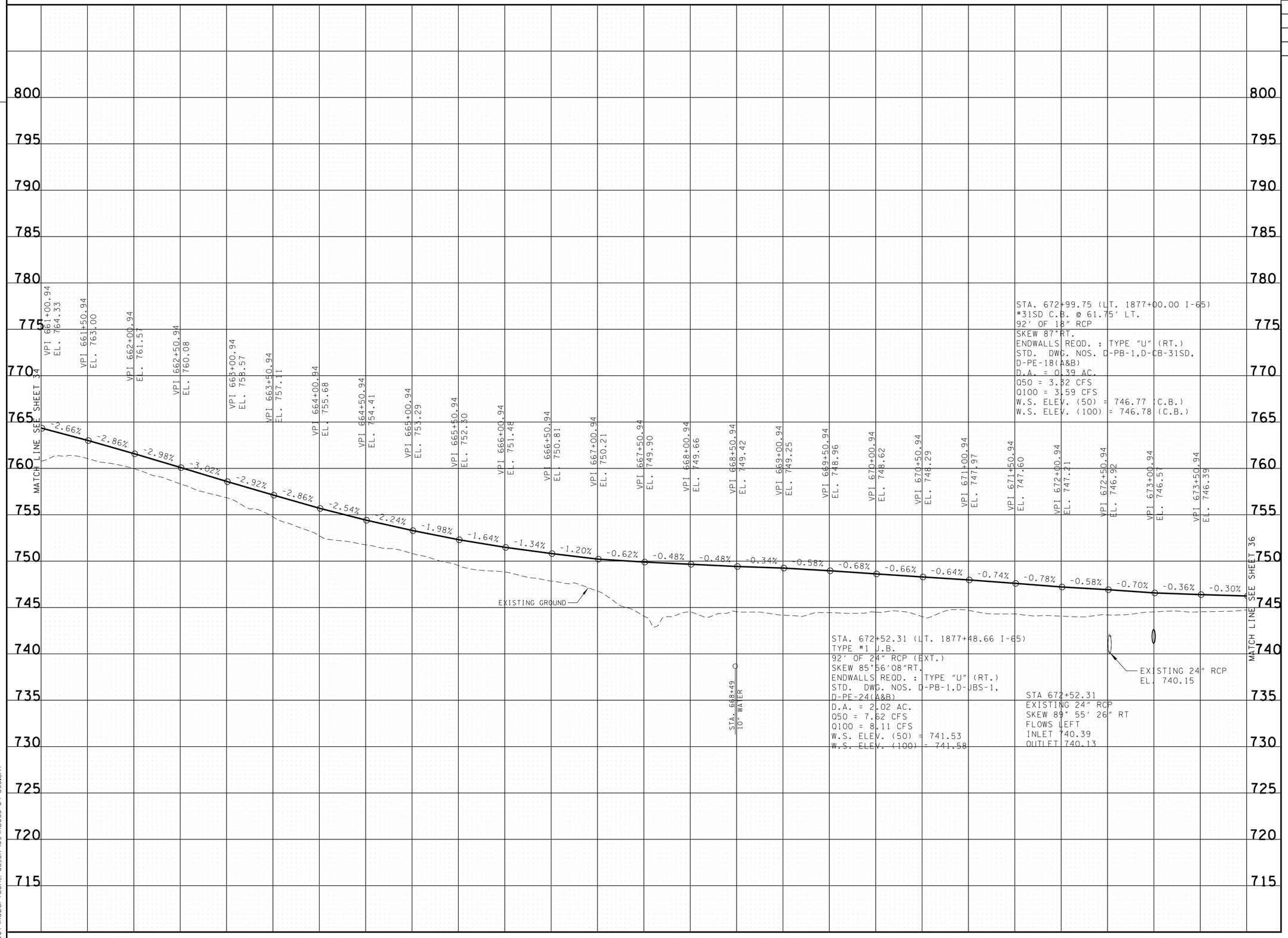
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24K
CONST.	2014	STP/HPP/NH-I-65-3(113)	35



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STATE OF TENNESSEE

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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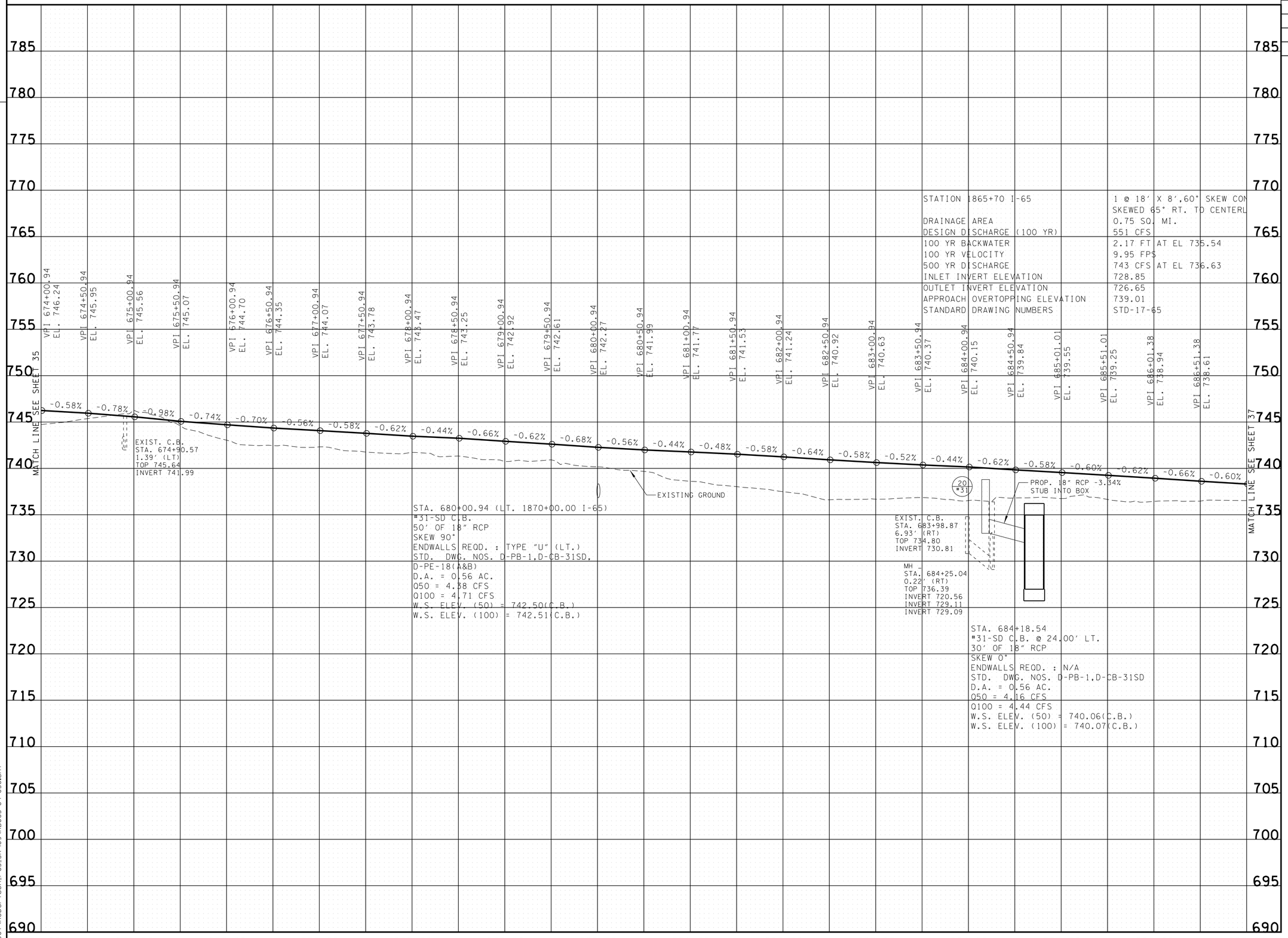
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24L
CONST.	2014	STP/HPP/NH-I-65-3(113)	36



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AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24M
CONST.	2014	STP/HPP/NH-I-65-3(113)	37

NCRETE BOX BRIDGE
INE STATION 1865+70.00 I-65

STA. 697+97.04 (LT. 1852+29.98 I-65)
206' OF 48" RCP
#3 M.H.(108" I.D.) (STA. 1851+94.96, 116.96' LT.)
102' OF 48" RCP
SKEW 53° 51'27"RT.
ENDWALLS REQD. : TYPE "U" (RT.), TYPE "A" (LT.)
STD. DWG. NOS. D-PB-1, D-MH-2, D-PE-48(A&B)
D-PE-1
D.A. = 26.84 AC.
Q50 = 58.51 CFS
Q100 = 63.39 CFS
W.S. ELEV. (50) = 727.37
W.S. ELEV. (100) = 727.54

LAKE SPRINGS ROAD

C-D ROAD STA. 697+87.57 = S.R. 109 STA. 385+86.33

MATCH LINE SEE SHEET 36

MATCH LINE SEE SHEET 38

VPI 687+00.98 EL. 738.31
VPI 687+50.98 EL. 738.03
VPI 688+00.98 EL. 737.74
VPI 688+50.98 EL. 737.49
VPI 689+00.98 EL. 737.22
VPI 689+50.98 EL. 736.94
VPI 690+00.98 EL. 736.67
VPI 690+50.98 EL. 736.44
VPI 691+00.98 EL. 736.19
VPI 691+50.98 EL. 735.93
VPI 692+00.98 EL. 735.61
VPI 692+50.98 EL. 735.31
VPI 693+00.98 EL. 735.02
VPI 693+50.98 EL. 734.74
VPI 694+00.98 EL. 734.44
VPI 694+50.98 EL. 734.14
VPI 695+00.98 EL. 733.86
VPI 695+50.98 EL. 733.61
VPI 696+00.98 EL. 733.37
VPI 696+50.98 EL. 733.10
VPI 697+00.98 EL. 732.89
VPI 697+50.98 EL. 732.66
VPI 698+00.98 EL. 732.30
VPI 698+50.98 EL. 731.99
VPI 699+00.98 EL. 731.68
VPI 699+50.98 EL. 731.48

-0.56% -0.58% -0.50% -0.54% -0.56% -0.54% -0.46% -0.50% -0.52% -0.64% -0.60% -0.58% -0.56% -0.60% -0.60% -0.56% -0.50% -0.48% -0.54% -0.42% -0.46% -0.72% -0.62% -0.62% -0.40% -0.42%

STA. 687+76
6" GAS
STA. 687+90
6" FMS
STA. 688+45
10" WATER

EXISTING GROUND

8" SAN. SEWER
GOES FROM LAKE SPRINGS
ROAD TIE TO S. OLD DETOUR ROAD

8" SA

STA. 691+00.98 CD RD. (LT. 1859+00.00 I-65)
#31-SD C.B.
64' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD,
D-PE-18(A&B)
D.A. = 1.40 AC.
Q50 = 10.43 CFS
Q100 = 11.13 CFS
W.S. ELEV. (50) = 736.45(C.B.)
W.S. ELEV. (100) = 736.46(C.B.)

STA. 696+00.98 (LT. 1854+00.00 I-65)
#31-SD C.B.
64' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD,
D-PE-4
D.A. = 1.11 AC.
Q50 = 8.28 CFS
Q100 = 8.82 CFS
W.S. ELEV. (50) = 733.62(C.B.)
W.S. ELEV. (100) = 733.63(C.B.)

EXISTING 42" RCP
EL. 720.10

STA 698+04.28
EXISTING 42" RCP
SKEW 75° 07' 36" RT
FLOWS RIGHT
INLET 724.67
OUTLET 719.90

STA. 698+61
6" WATER

6" W

785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690

687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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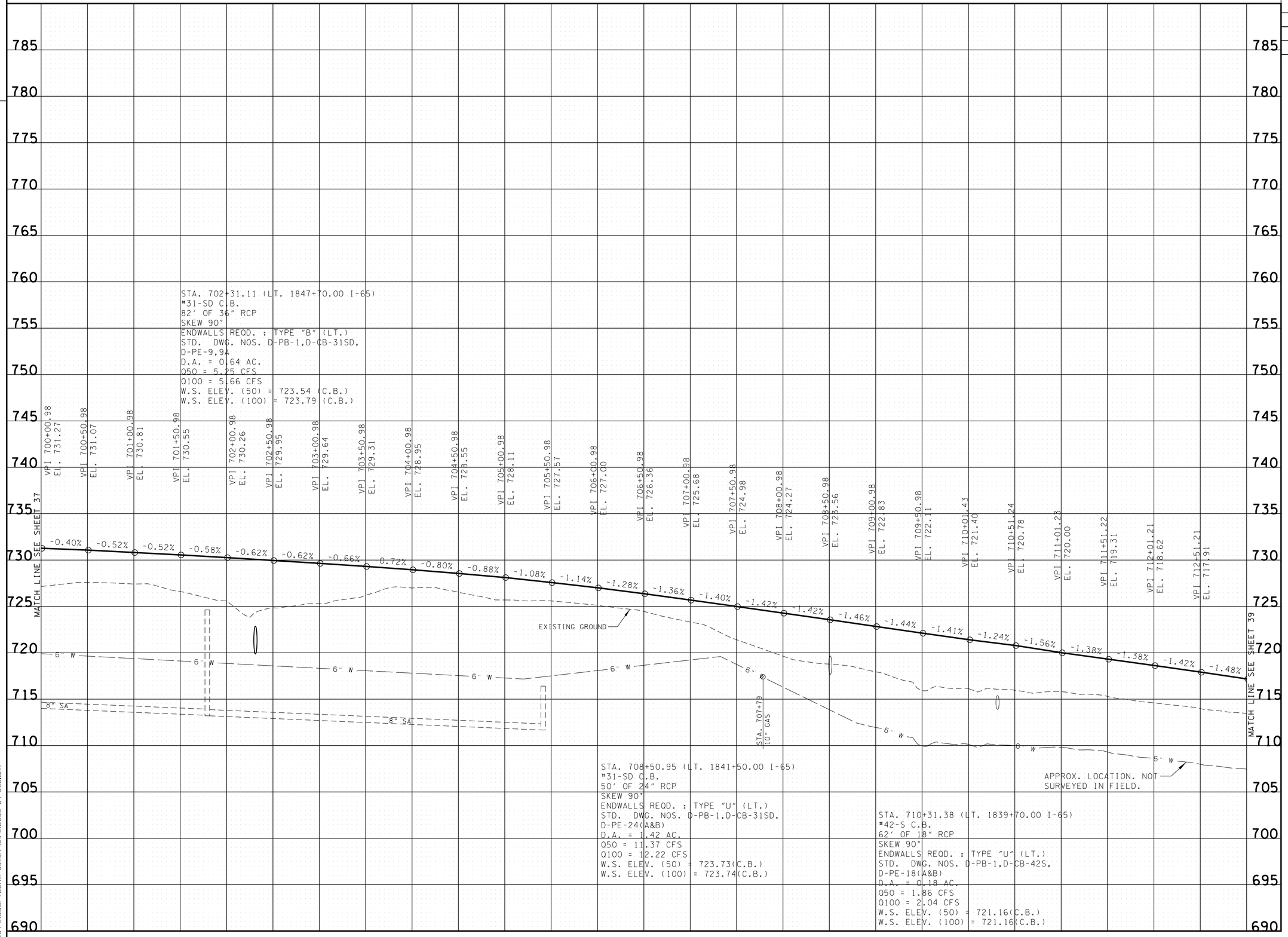
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24N
CONST.	2014	STP/HPP/NH-I-65-3(113)	38



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REGISTERED ENGINEER
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COMMERCE
No. 107296
STATE OF TENNESSEE

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24"0"
CONST.	2014	STP/HPP/NH-I-65-3(113)	39

STA. 714+04.48 (476+98.77 RAMP H)
#42S C.B.
92' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-42S,
D-PE-18(A&B)
D.A. = 0.37 AC.
Q50 = 3.28 CFS
Q100 = 3.56 CFS
W.S. ELEV. (50) = 715.82(C.B.)
W.S. ELEV. (100) = 715.85(C.B.)

VPI 713+01.22 EL. 717.17
VPI 713+51.22 EL. 716.43
VPI 714+01.23 EL. 715.73
VPI 714+51.24 EL. 714.96
VPI 715+01.25 EL. 714.17
VPI 715+51.25 EL. 713.50
VPI 716+01.26 EL. 712.77
VPI 716+51.27 EL. 712.00
VPI 717+01.07 EL. 711.23
VPI 717+51.08 EL. 710.48
VPI 718+01.09 EL. 709.74
VPI 718+51.09 EL. 709.12
VPI 719+01.10 EL. 708.52
VPI 719+51.11 EL. 707.93
VPI 720+01.31 EL. 707.54
VPI 720+51.32 EL. 707.28
VPI 721+01.33 EL. 707.17
VPI 721+51.34 EL. 706.90
VPI 722+01.34 EL. 707.03
VPI 722+51.34 EL. 707.29
VPI 723+01.36 EL. 707.70
VPI 723+51.36 EL. 708.25
VPI 724+01.37 EL. 708.94
VPI 724+41.18 EL. 709.53

MATCH LINE SEE SHEET 38

-1.48% -1.40% -1.54% -1.58% -1.34% -1.46% -1.54% -1.55% -1.50% -1.48% -1.24% -1.20% -1.18% -0.78% -0.52% -0.22% -0.54% 0.26% 0.52% 0.82% 1.10% 1.38% 1.48%

EXISTING GROUND
PROP. 18" RCP -1.30%
PROP. TRENCH DRAIN
FOR PROPOSED TRENCH DRAIN INFO & DETAILS SEE CROSS SECTIONS AND STD. DWG. D-TD-1
6" W

EXISTING 15" RCP
EL. 702.77
STA 715+00.31
EXISTING 15" RCP
SKEW 88° 35' 51" LT
FLOWS RIGHT
INLET 706.70
OUTLET 701.10

APPROX. LOCATION. NOT SURVEYED IN FIELD.

PROP. 18" RCP -23.08%
STUB INTO BOX

PROP. 18" RCP -7.89%
STUB INTO BOX

EXTREME HIGH WATER LEVEL (EL. 700.42)
(DEBRIS IN TREES)

EXIST. 3 @ 15' X 10' BOX CULV.
NORMAL WATER LEVEL (0.4' DEEP)
EL. 690.27

STA 719+01.13
EXISTING 3 @ 15'X10' BOX CULVERT
SKEW 89° 03' 29" LT
FLOWS RIGHT
INLET 690.89
OUTLET 689.71

755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675 670 665 660

713+00 714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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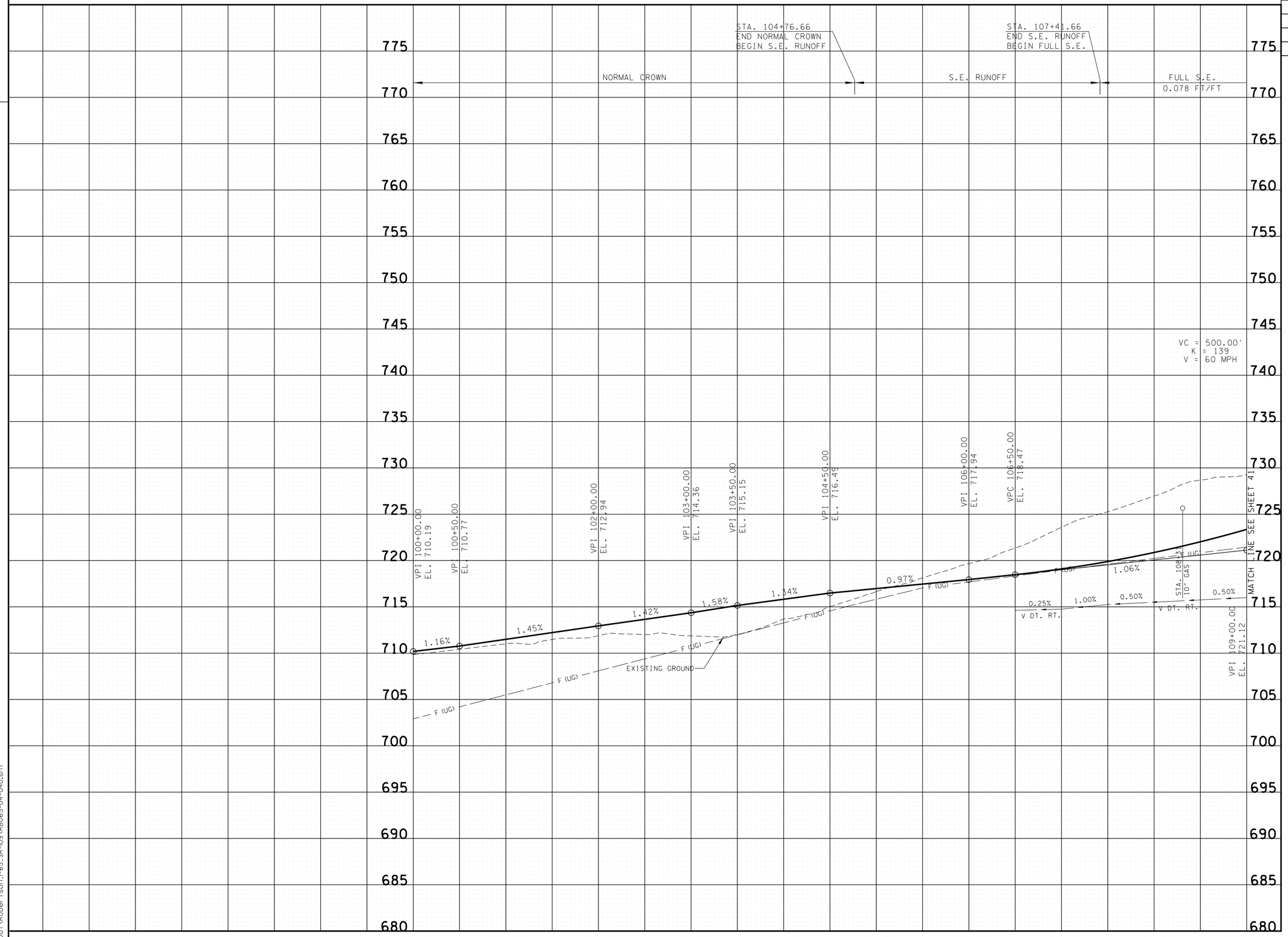
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24P
CONST.	2014	STP/HPP/NH-I-65-3(113)	40



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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

RAMP A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	240
CONST.	2014	STP/HPP/NH-I-65-3(113)	41

STA. 109+90.57
END FULL S.E.
BEGIN S.E. RUNOFF

STA. 112+55.57
END S.E. RUNOFF
BEGIN NORMAL CROWN

STA. 113+43.34
END NORMAL CROWN
BEGIN S.E. RUNOFF

STA. 114+43.34
END S.E. RUNOFF
BEGIN FULL S.E.

STA. 115+69.05
END FULL S.E.
BEGIN S.E. RUNOFF

STA. 116+69.05
END S.E. RUNOFF
BEGIN TRANS.

TRANS. TO MATCH S.R. 109

FULL S.E.
0.078 FT/FT

S.E. RUNOFF

NORMAL CROWN

S.E. RUNOFF

FULL S.E.
0.025 FT/FT

S.E. RUNOFF

VPC 115+90.00
EL. 753.14

VPI 116+40.00
EL. 755.46

VPT 116+90.00
EL. 755.46

VPI 117+20.64
EL. 755.46

VPI 117+58.21
EL. 756.25

4.64%

0.00%

0.00%

2.10%

VPT 111+50.00
EL. 732.72

VC = 500.00'
K = 139
V = 60 MPH

STA. 116+52.80
#38RB C.B.(STA. 379+36.20 SR-109 @ 85.48' LT)
168' OF 30" RCP
SKEW 78°01'25" RT.
ENDWALLS REQD. : TYPE "ST" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-38RB,
D-PE-4
D.A. = 9.79 AC.
Q50 = 22.00 CFS
Q100 = 23.20 CFS
W.S. ELEV. (50) = 749.10(C.B.)
W.S. ELEV. (100) = 749.11(C.B.)

VC = 100.00'
K = 21
V = 30 MPH

EXISTING GROUND

V DT. RT.

2.00%

1.00%

0.50%

V DT. RT.

0.50%

F (UG)

4.64%

4.00%

3.00%

2.00%

4.00%

3.40%

2.60%

MATCH LINE SEE SHEET 40

VPI 109+00.00
EL. 721.12

STA. 109+50
U.C.E.

STA. 109+81.65
138' OF 24" RCP
SKEW 50° 48' 46" (TAN. TO CURVE)
ENDWALLS REQD. : TYPE "U" (LT.& RT.)
STD. DWG. NOS. D-PB-1, D-PE-24(A&B)(RT.),
D-PE-30(A&B)(LT.), D-PE-99
D.A. = 2.20 AC.
Q50 = 7.83 CFS
Q100 = 8.38 CFS
W.S. ELEV. (50) = 719.93
W.S. ELEV. (100) = 719.99

775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680

109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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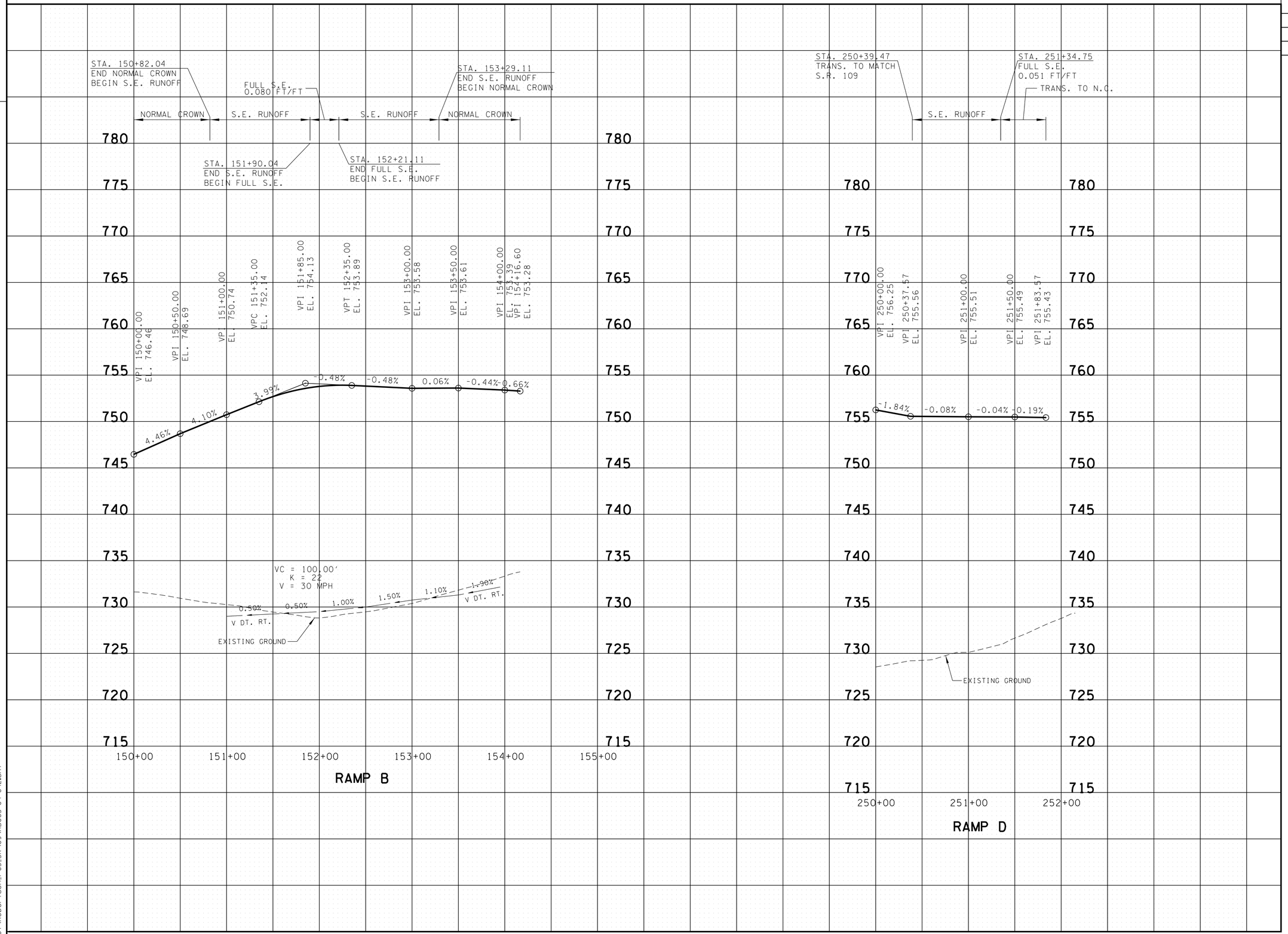
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24R
CONST.	2014	STP/HPP/NH-I-65-3(113)	42



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

RAMPS B & D

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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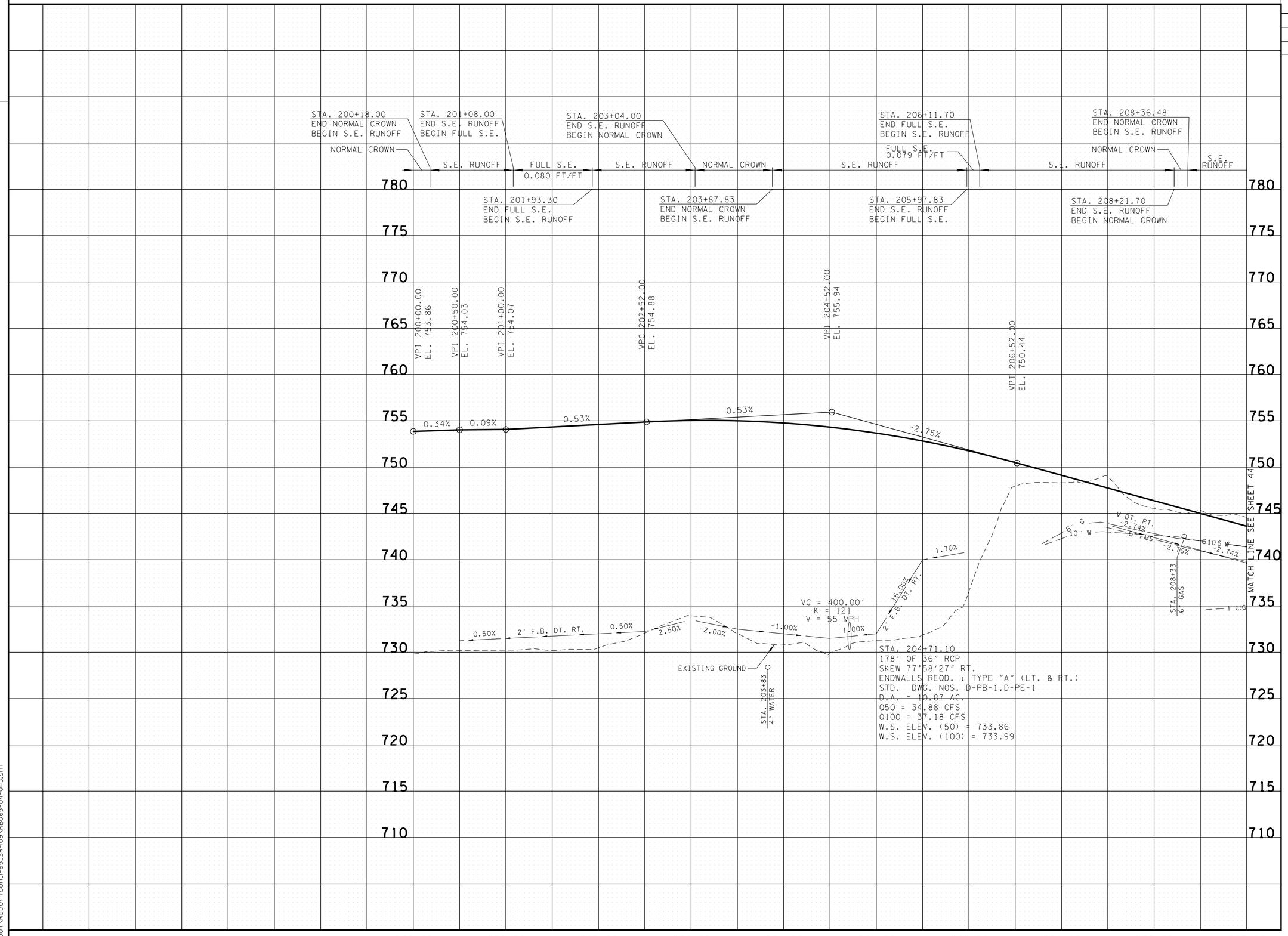
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	245
CONST.	2014	STP/HPP/NH-I-65-3(113)	43



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

RAMP C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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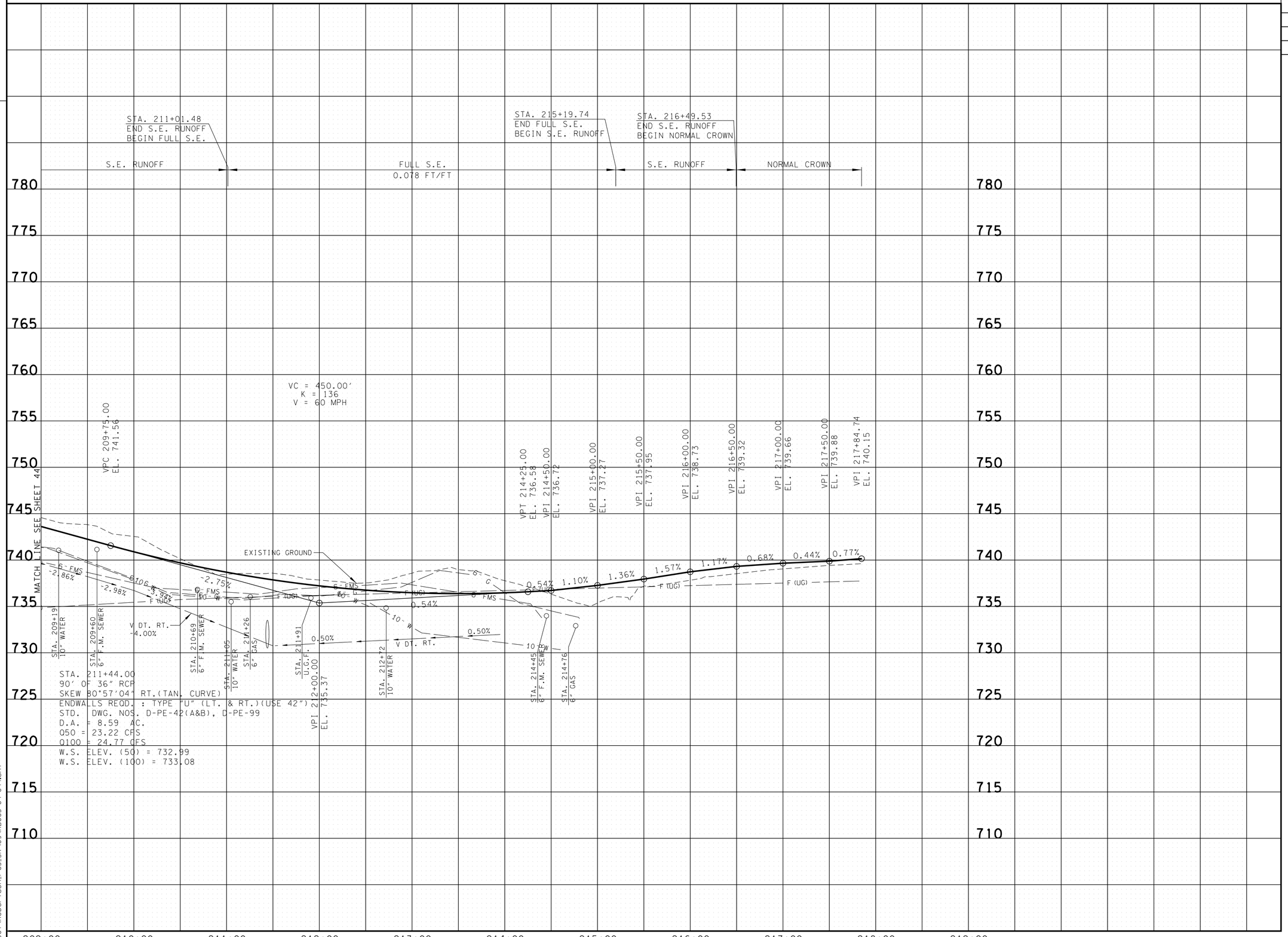
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24T
CONST.	2014	STP/HPP/NH-I-65-3(113)	44



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

RAMP C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24U
CONST.	2014	STP/HPP/NH-I-65-3(113)	45

STA. 301+26.00
END S.E. RUNOFF
BEGIN FULL S.E.

S.E. RUNOFF

FULL S.E.
0.080 FT/FT

VPI 300+00.00
EL. 730.45

VPI 300+50.00
EL. 729.77

VPI 301+00.00
EL. 728.94

VPI 301+50.00
EL. 728.33

VPI 302+00.00
EL. 727.57

OH WIRE
STA. 302+22.62
LOW WIRE EL.738.91'
TEMP. 80 DEG.
2 POWER

VC = 400.00'
K = 83
V = 45 MPH

VPC 305+49.50
EL. 720.96

VPT 309+49.50
EL. 722.96

MATCH LINE SEE SHEET 46

-1.36% -1.66% -1.22% -1.53% -1.89% 2.89%

-0.50% -0.50% -0.50% -3.80% 4.00% -4.00% -2.00% -2.70% -0.50% -0.50% -3.00% -2.80% 0.70% 0.70% 1.30% 1.60% 1.60% 2.00% 6.00%

6' F.B. DT. RT. 6' F.B. DT. RT. 6' F.B. DT. RT.

-8.44% V DT. LT. 2' F.B. -6.00% -3.00% -5.00% -3.00% 2' F.B. DT. LT. -0.60% 0.00% 2' F.B. DT. LT. 2' F.B. DT. RT. 2' F.B. DT. RT.

4" W 4" W 4" W 4" W 4" W

EXISTING GROUND

STA. 301+08.01 (LT. 1847+70.00 I-65)
#31-SD C.B.
82' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "B" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD, D-PE-9,9A
D.A. = 0.64 AC.
Q50 = 5.25 CFS
Q100 = 5.66 CFS
W.S. ELEV. (50) = 723.54 (C.B.)
W.S. ELEV. (100) = 723.79 (C.B.)

STA. 302+54
4" WATER

STA. 303+45
8" SA

MH
STA. 310+10.64
74.85' (LT)
TOP 716.40
INVERT 711.91
INVERT 711.67

STA. 305+66
10" GAS

VPT 307+49.50
EL. 717.18

STATION	307+06.56
STRUCTURE	129.8' OF 6' X 4' RCBC
SKEW	50°51'25" SK.LT. (TAN.CURVE)
DRAINAGE AREA	73.76 AC.
DESIGN DISCHARGE (Q50)	122.89 CFS
DESIGN DISCHARGE (Q100)	134.59 CFS
OVERTOPPING ELEV.	719.54
ALLOWABLE HEADWATER ELEV.	717.54
Q50 HEADWATER ELEV.	710.66
Q100 HEADWATER ELEV.	710.92
VELOCITY (Q50)	7.00 FT/S
VELOCITY (Q100)	7.00 FT/S
INLET ELEVATION	707.00
OUTLET ELEVATION	703.00
STANDARD DRAWING NUMBERS	STD-17-51
CLASS "A" CONCRETE	79 C.Y.
STEEL BAR REINFORCING	17912 LB.
FOUNDATION FILL MATERIAL	28 C.Y.

775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680

300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00

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COMMERCE
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STATE OF TENNESSEE

RAMP E

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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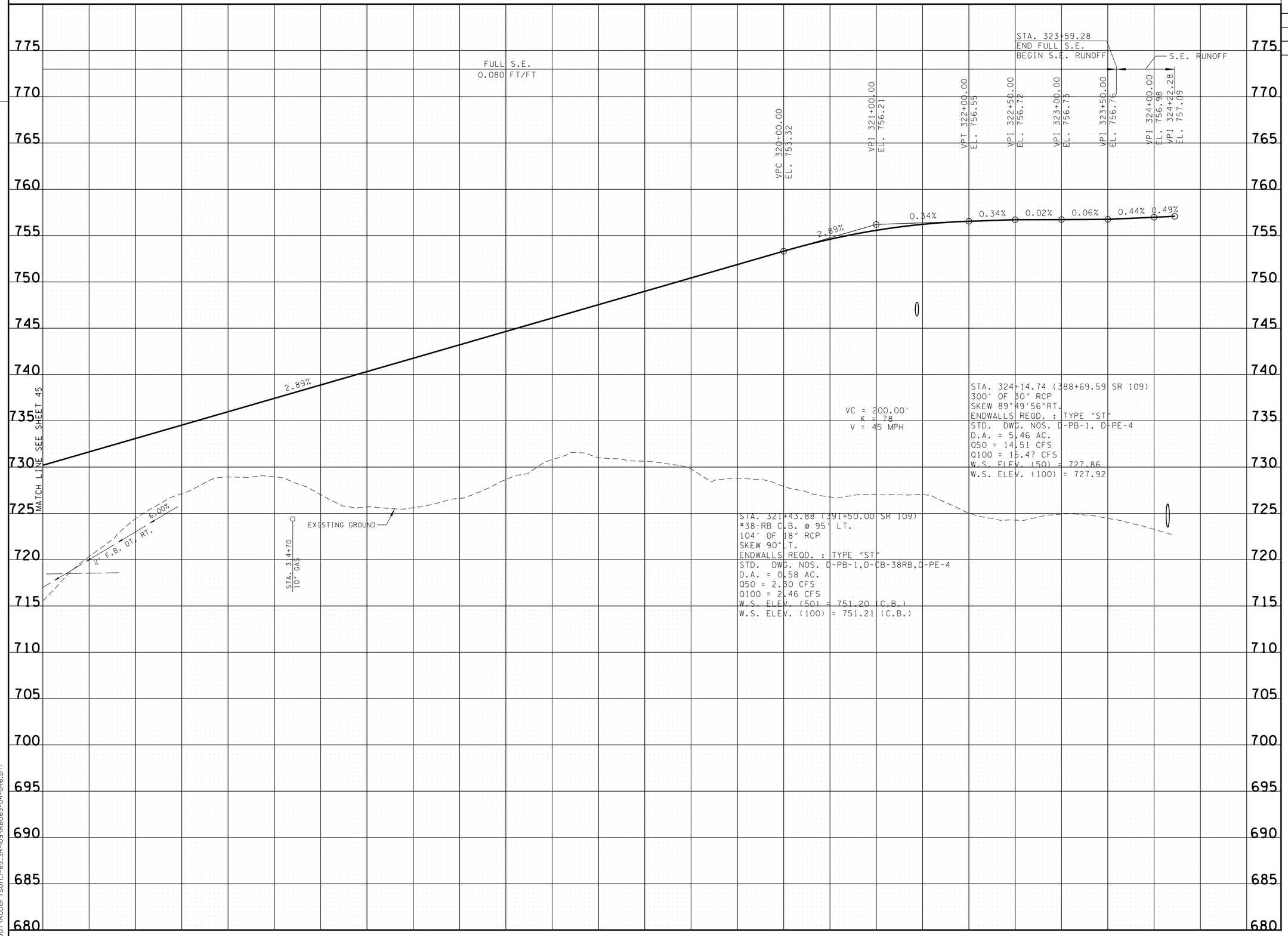
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24V
CONST.	2014	STP/HPP/NH-I-65-3(113)	46



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AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

RAMP E

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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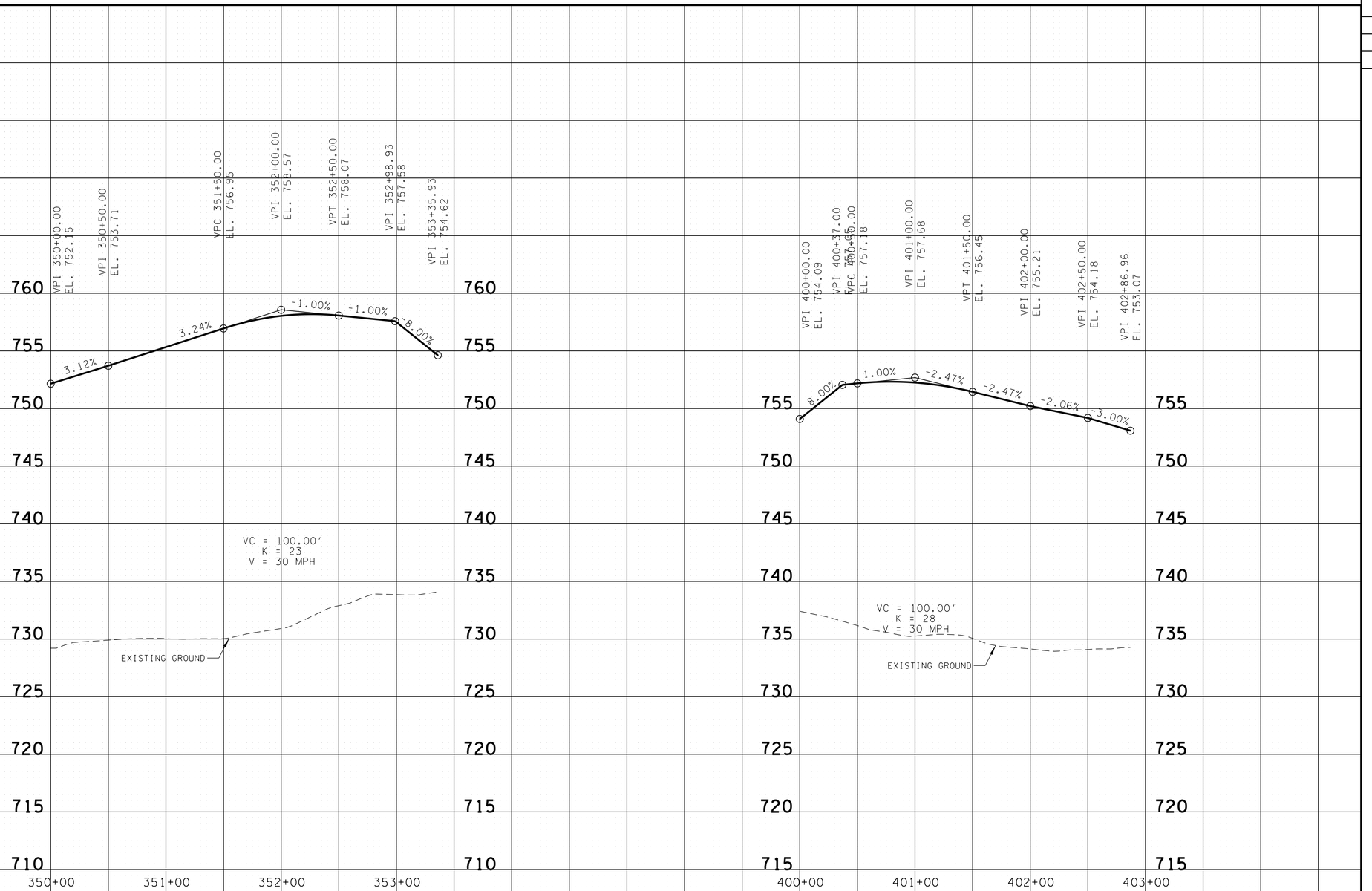
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24W
CONST.	2014	STP/HPP/NH-I-65-3(113)	47



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AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

RAMPS F & G

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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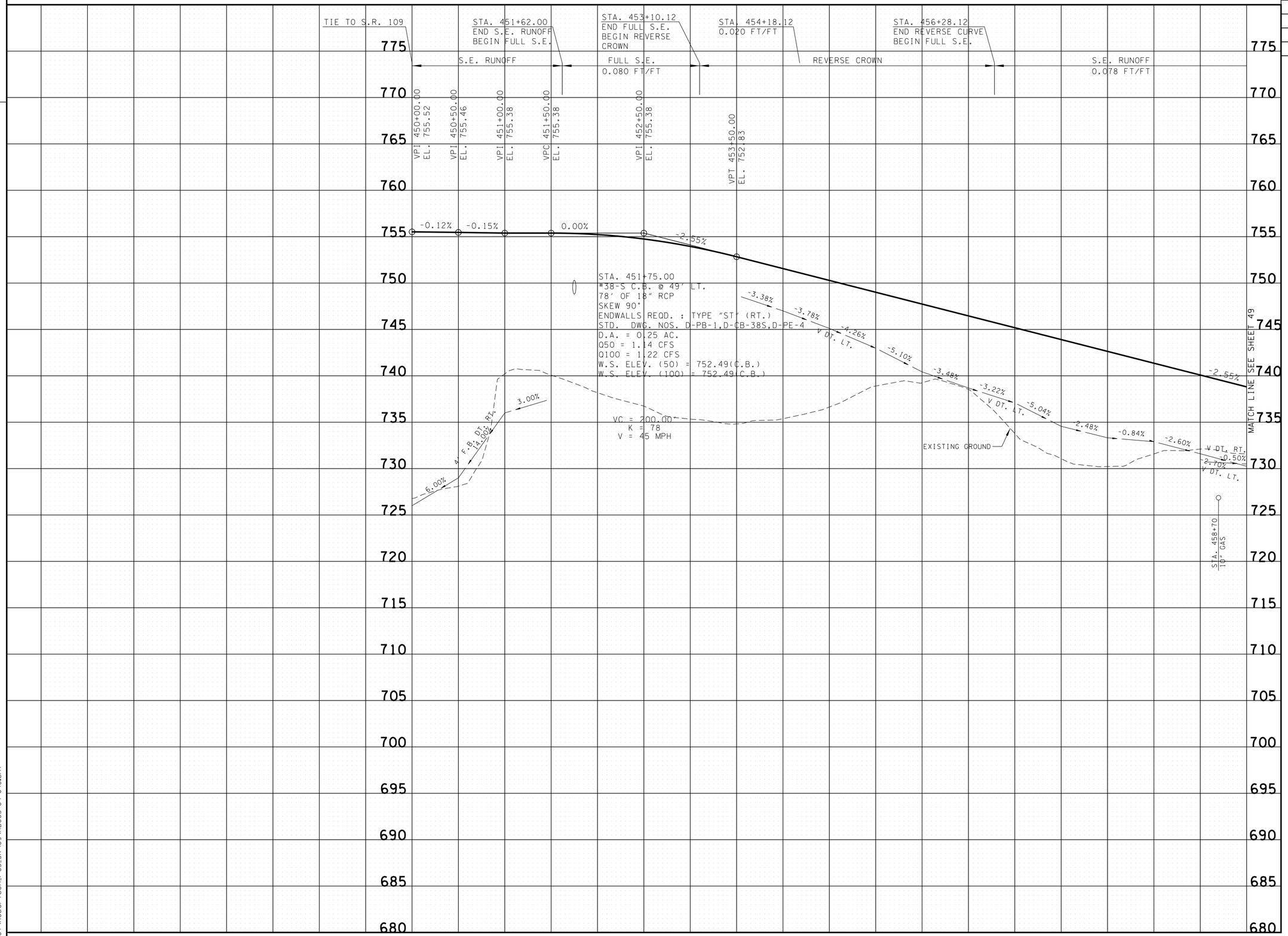
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24X
CONST.	2014	STP/HPP/NH-I-65-3(113)	48



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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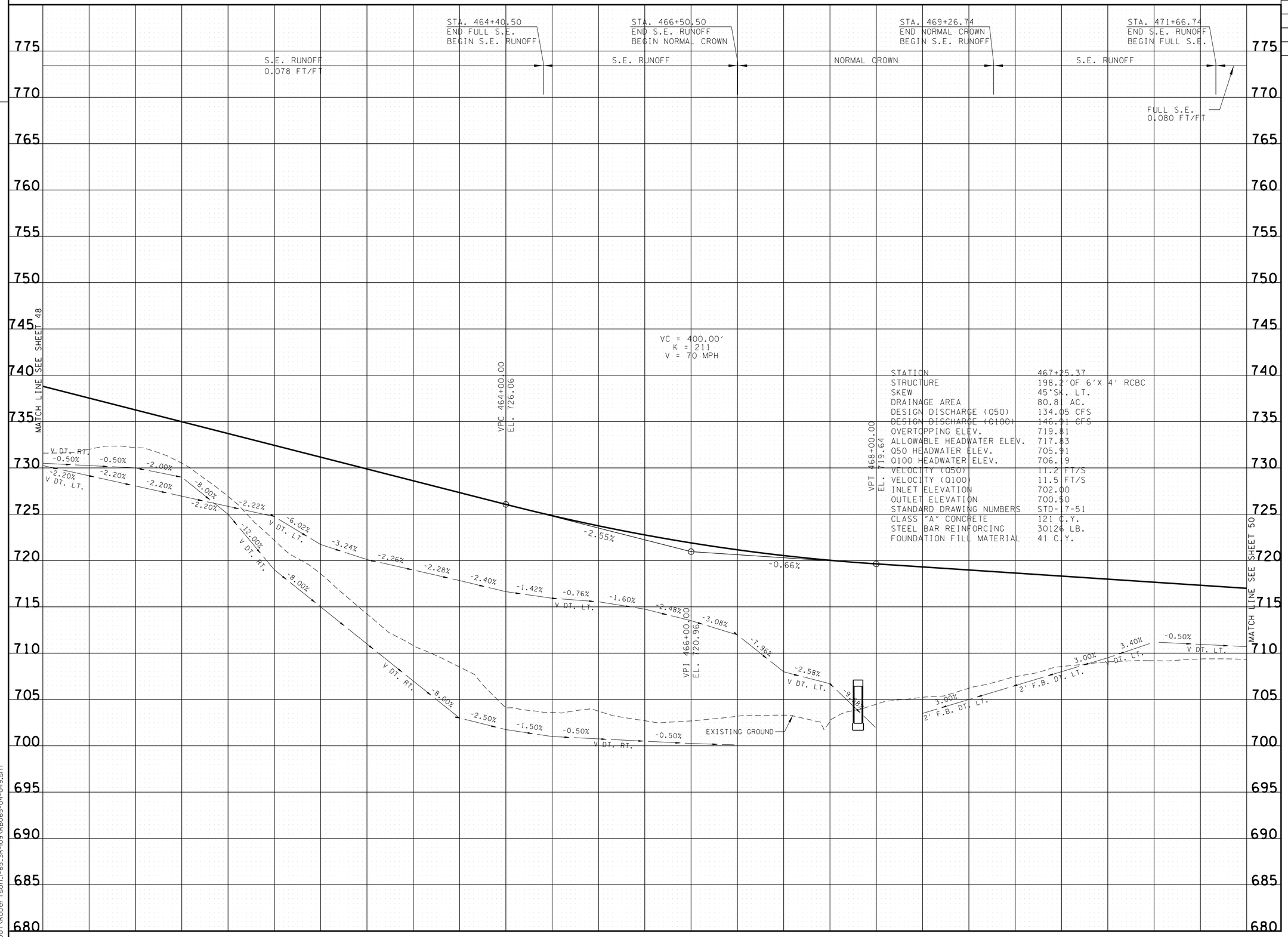
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24Y
CONST.	2014	STP/HPP/NH-I-65-3(113)	49



STATION	467+25.37
STRUCTURE	198.2'OF 6'X 4' RCBC
SKEW	45°SK. LT.
DRAINAGE AREA	80.81 AC.
DESIGN DISCHARGE (Q50)	134.05 CFS
DESIGN DISCHARGE (Q100)	146.91 CFS
OVERTOPPING ELEV.	719.81
ALLOWABLE HEADWATER ELEV.	717.83
Q50 HEADWATER ELEV.	705.91
Q100 HEADWATER ELEV.	706.19
VELOCITY (Q50)	11.2 FT/S
VELOCITY (Q100)	11.5 FT/S
INLET ELEVATION	702.00
OUTLET ELEVATION	700.50
STANDARD DRAWING NUMBERS	STD-17-51
CLASS "A" CONCRETE	121 C.Y.
STEEL BAR REINFORCING	30126 LB.
FOUNDATION FILL MATERIAL	41 C.Y.

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AGRICULTURE
COMMERCE
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STATE OF TENNESSEE

RAMP H

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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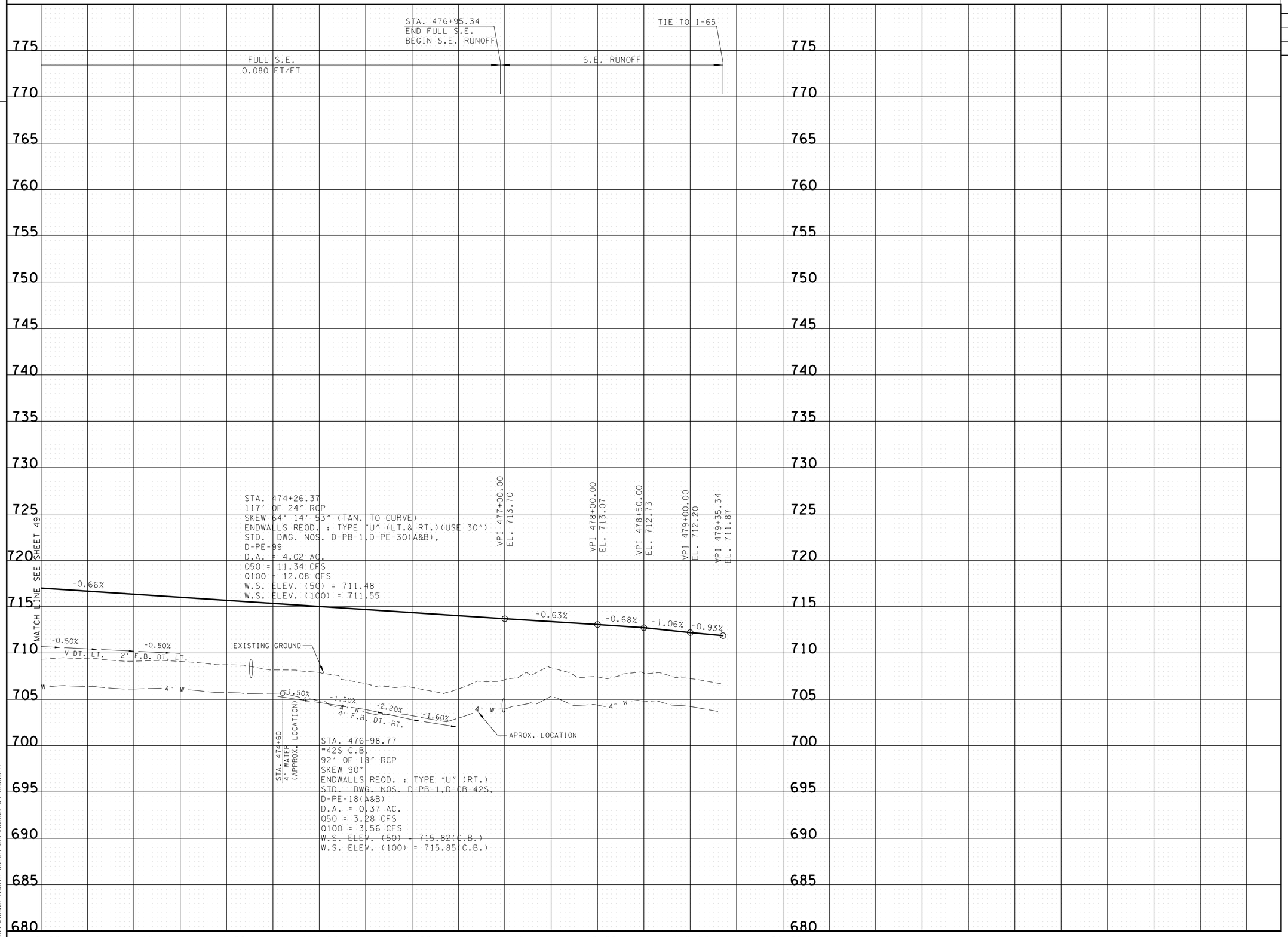
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24Z
CONST.	2014	STP/HPP/NH-I-65-3(113)	50



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

RAMP H

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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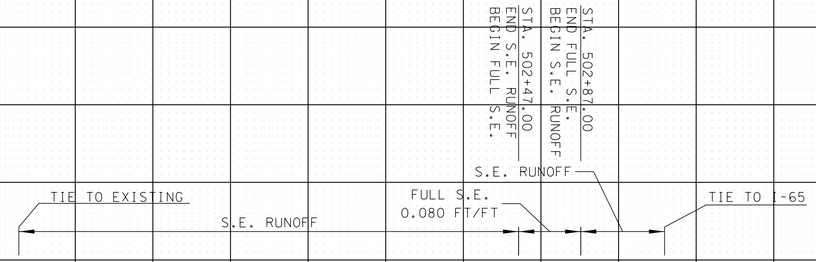
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AA
CONST.	2014	STP/HPP/NH-I-65-3(113)	51

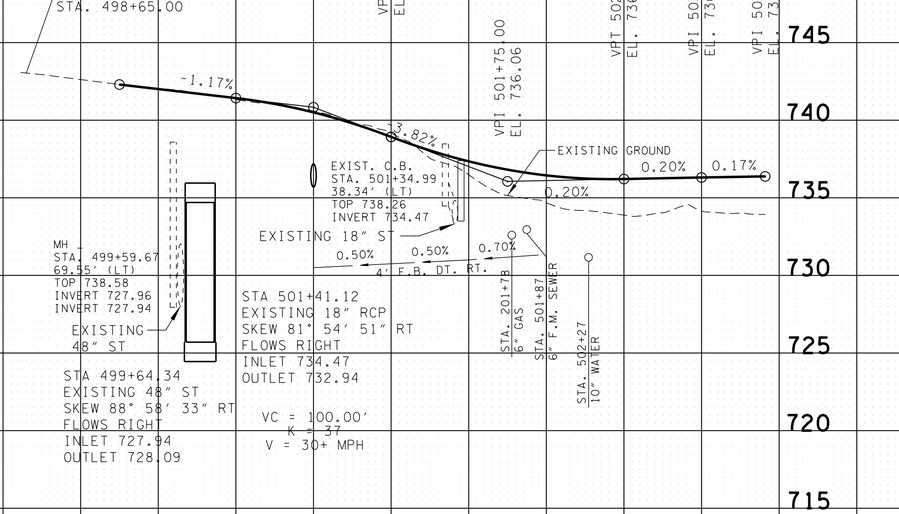


STATION 499+77
DRAINAGE AREA
DESIGN DISCHARGE (100 YR)
100 YR BACKWATER
100 YR VELOCITY
500 YR DISCHARGE
INLET INVERT ELEVATION
OUTLET INVERT ELEVATION
APPROACH OVERTOPPING ELEVATION
STANDARD DRAWING NUMBERS
CLASS "A" CONCRETE
STEEL BAR REINFORCING
FOUNDATION FILL MATERIAL

1 @ 18' X 9', 90° SKEW CONCRETE BOX CULVERT
0.75 SQ. MI.
551 CFS
1.41 FT AT EL 730.97
8.23 FPS
743 CFS AT EL 732.18
726.00
725.50
736.22
STD-17-66
145 C.Y.
36372 LB.
92 C.Y.
VC = 150.00'
K = 37
V = 30 MPH

STA. 500+50.00
12LP C.B. @ 16' LT.
46' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PB-1,D-CB-12LP,
D-PE-18(A&B)
D.A. = 0.13 AC.
Q50 = 0.97 CFS
Q100 = 1.03 FS
W.S. ELEV. (50) = 740.21 (C.B.)
W.S. ELEV. (100) = 740.22 (C.B.)

STA. 501+45.00
12LP C.B.
27' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U"
STD. DWG. NOS. D-PB-1,D-CB-12LP,
D-PE-18(A&B)
D.A. = 0.03 AC.
Q50 = 0.22 CFS
Q100 = 0.24 FS
W.S. ELEV. (50) = 737.49 (C.B.)
W.S. ELEV. (100) = 737.49 (C.B.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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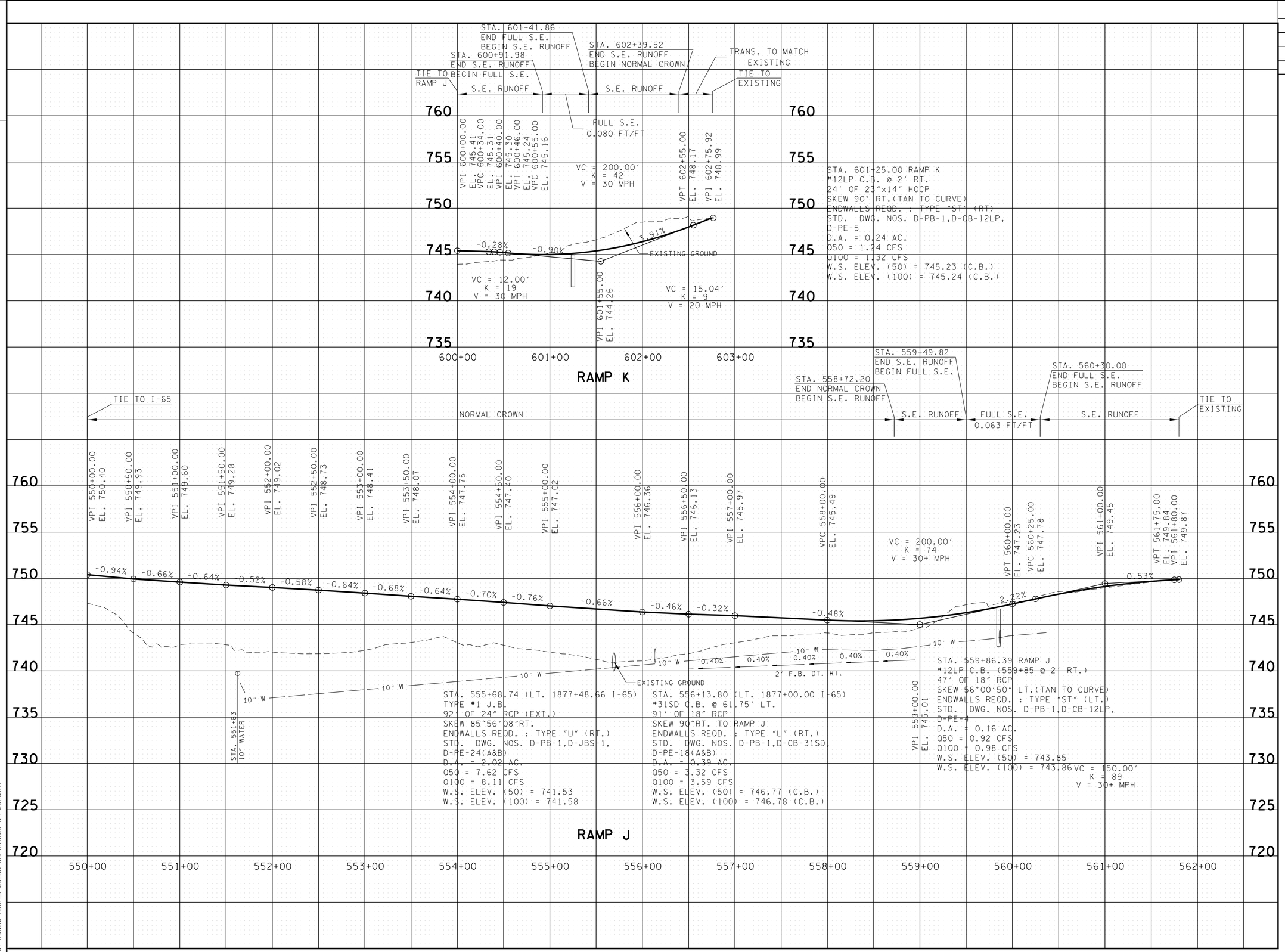
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AB
CONST.	2014	STP/HPP/NH-I-65-3(113)	52



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AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

RAMP J & K

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

9/22/2014 8:15:01 PM
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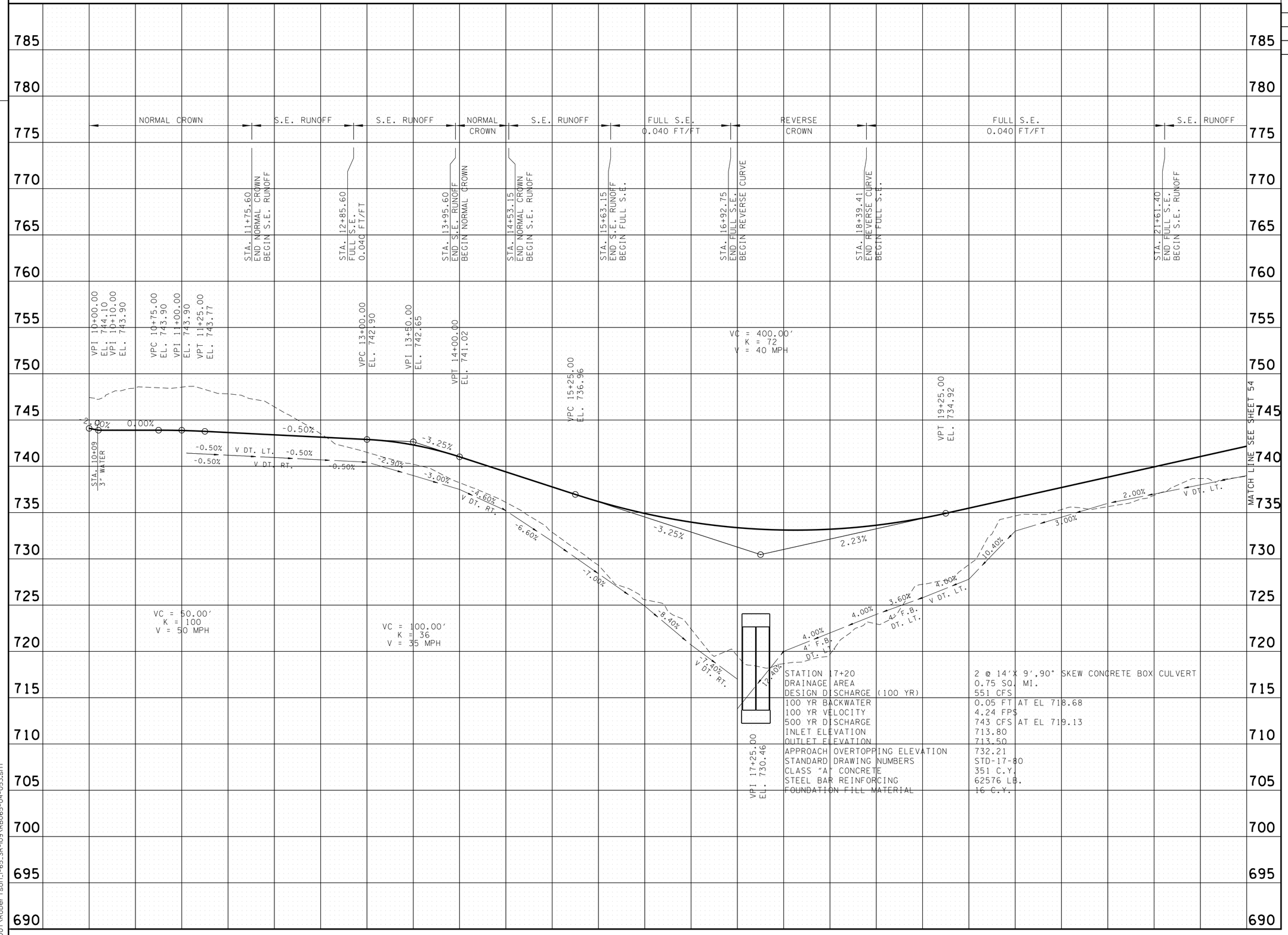
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AC
CONST.	2014	STP/HPP/NH-I-65-3(113)	53



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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

FRONTAGE ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

9/22/2014 8:15:04 PM
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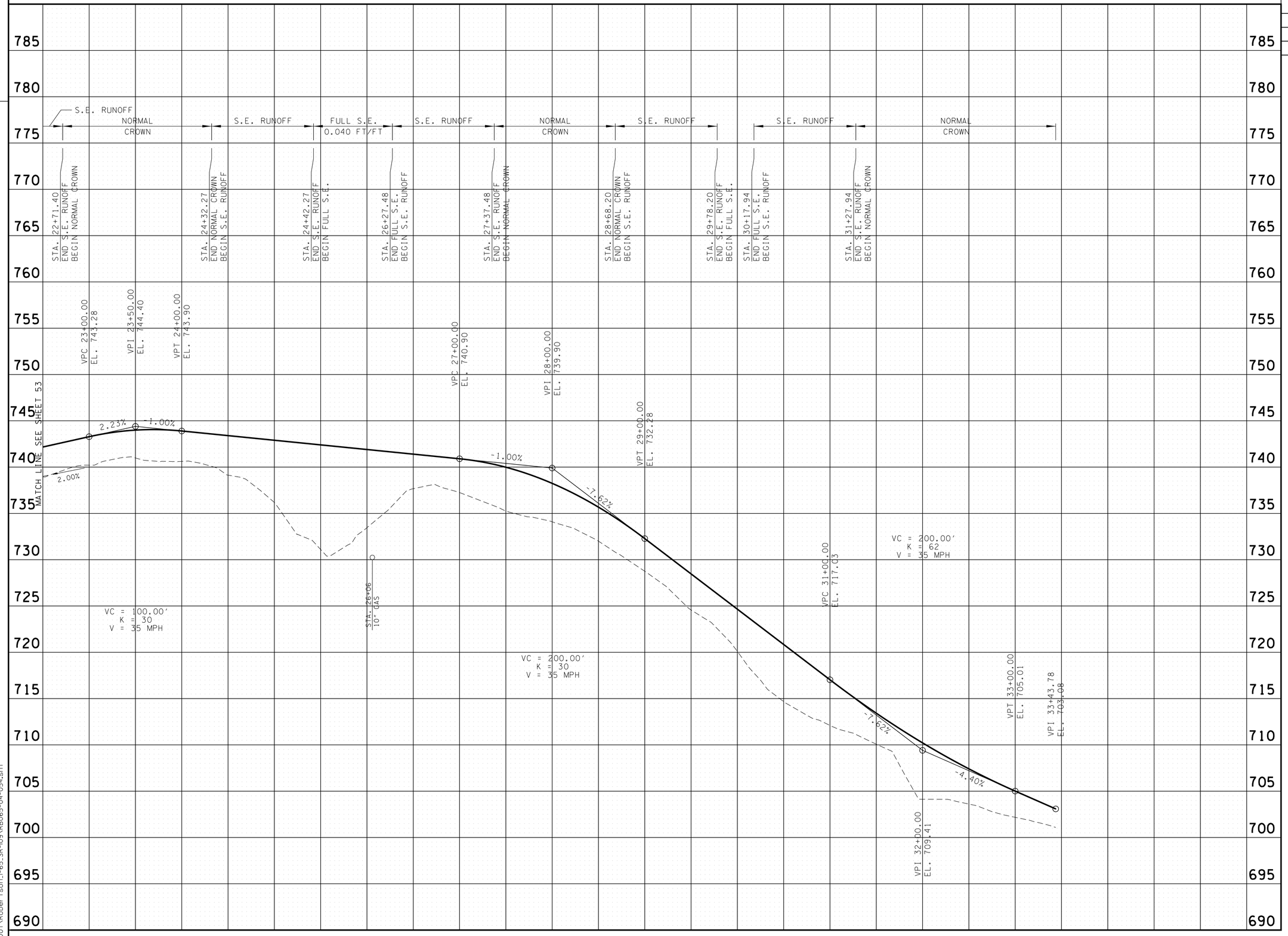
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AD
CONST.	2014	STP/HPP/NH-I-65-3(113)	54



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

FRONTAGE ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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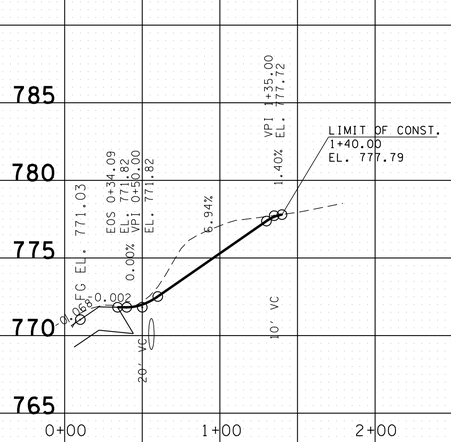
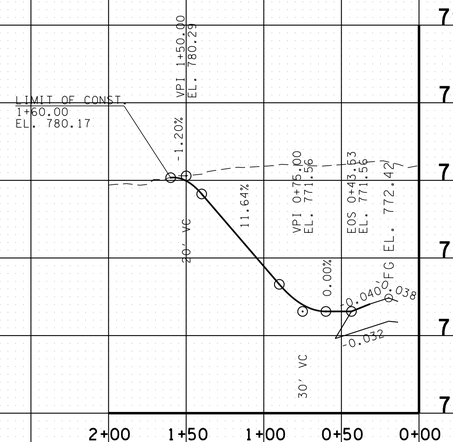
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

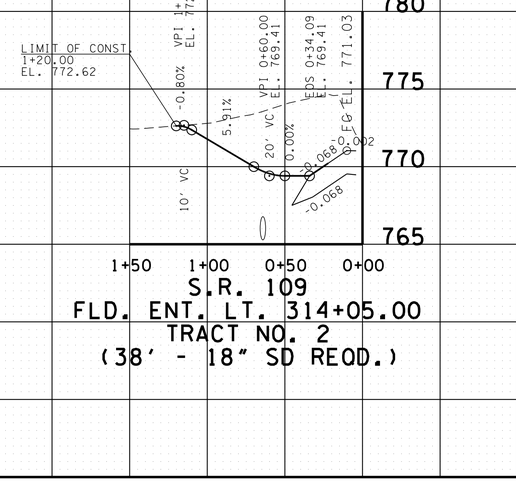
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AE
CONST.	2014	STP/HPP/NH-I-65-3(113)	55



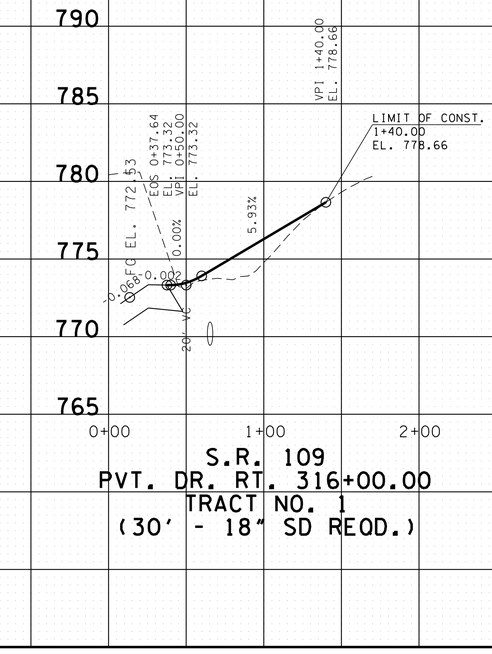
S.R. 109
PVT. DR. RT. 314+05.00
TRACT NO. 1
(26' - 24" SD REQD.)



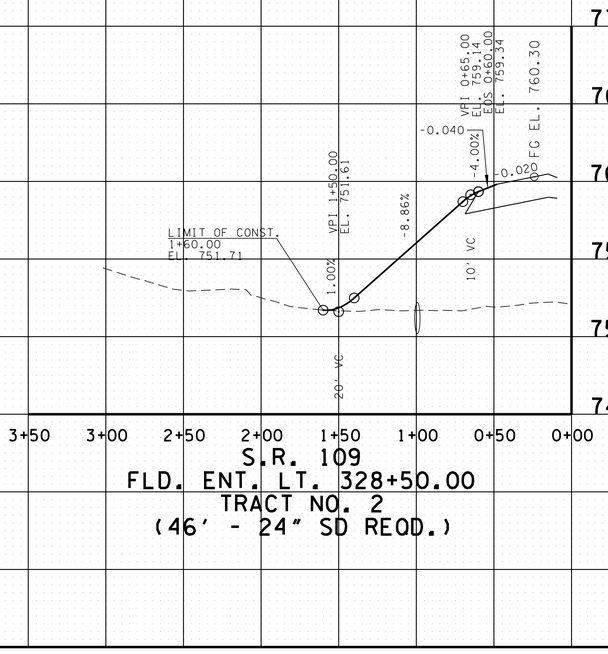
S.R. 109
FLD. ENT. LT. 319+24.00
TRACT NO. 2
(NO SD REQD.)



S.R. 109
FLD. ENT. LT. 314+05.00
TRACT NO. 2
(38' - 18" SD REQD.)



S.R. 109
PVT. DR. RT. 316+00.00
TRACT NO. 1
(30' - 18" SD REQD.)



S.R. 109
FLD. ENT. LT. 328+50.00
TRACT NO. 2
(46' - 24" SD REQD.)

UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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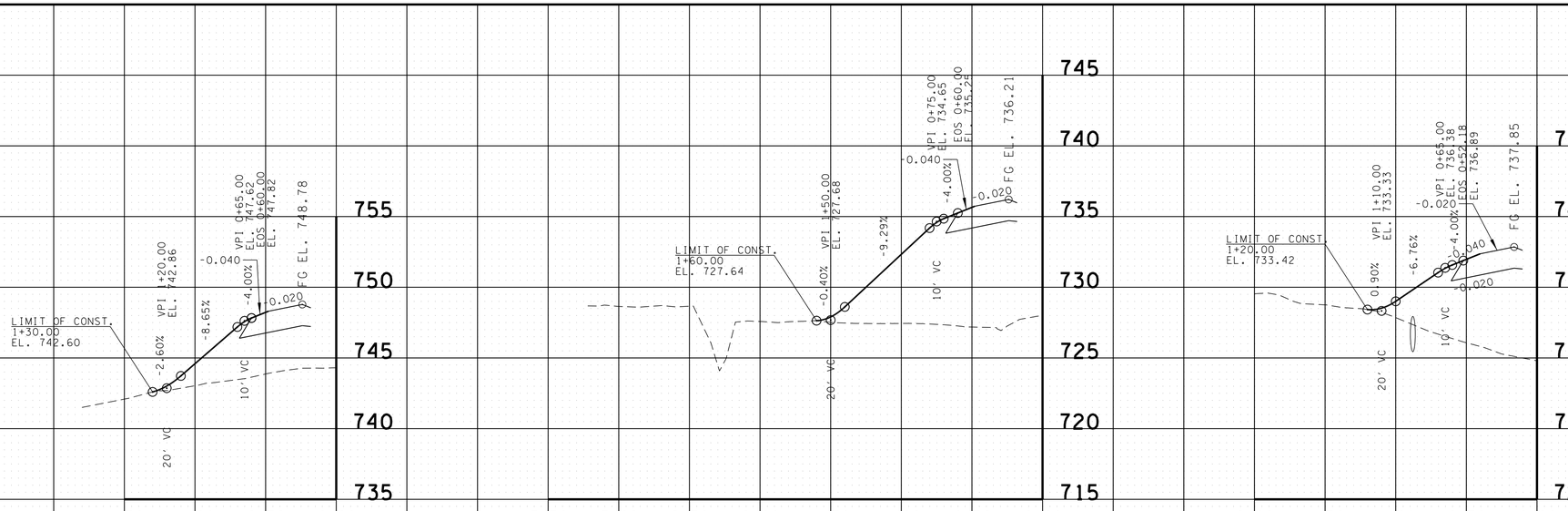
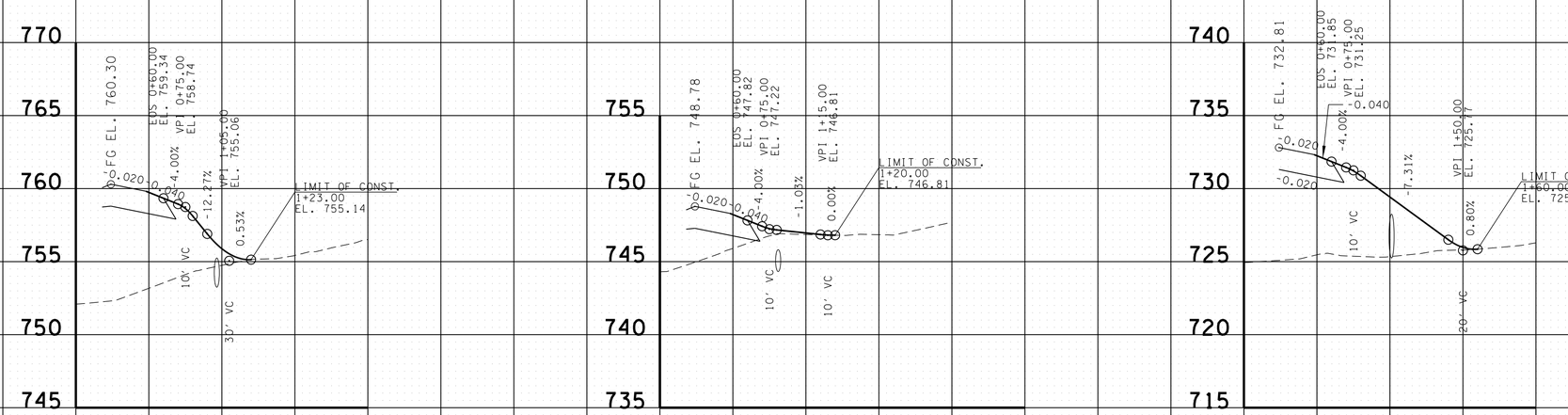
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AF
CONST.	2014	STP/HPP/NH-I-65-3(113)	56

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.





UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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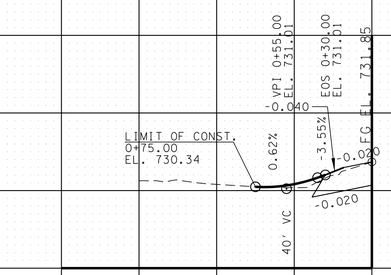
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

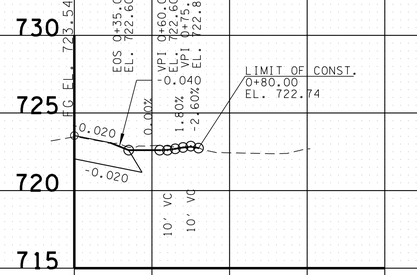
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AG
CONST.	2014	STP/HPP/NH-I-65-3(113)	57

REV. 12-09-13: REMOVED BUS. ENT. LT. STA. 413+88, 414+73, 419+60 & RT. STA. 420+00. ADDED FLD. ENT. RT. STA. 414+56.

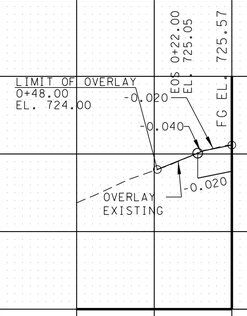
REV. 7-10-14: ADDED BUS. ENT. LT. STA. 413+88, 414+73, 419+67 & RT. STA. 419+95.



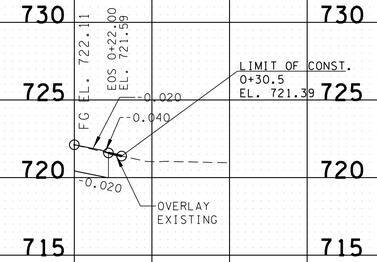
S.R. 109
BUS. ENT. LT. 410+56.00
TRACT NO. 42
(NO SD REQD.)



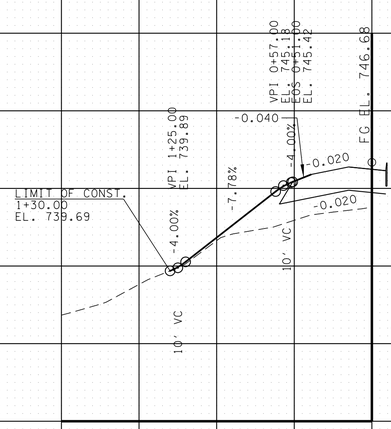
S.R. 109
BUS. ENT. RT. 416+36.00
TRACT NO. 45
(NO SD REQD.)



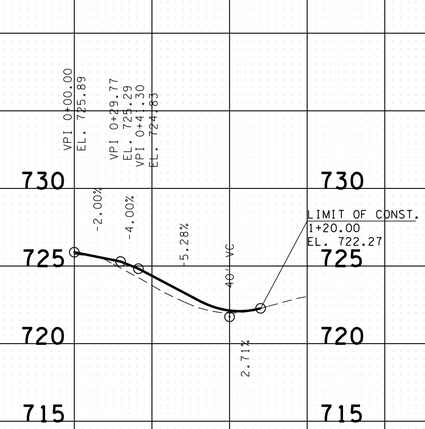
S.R. 109
BUS. ENT. LT. 414+73.00
TRACT NO. 44
(NO SD REQD.)



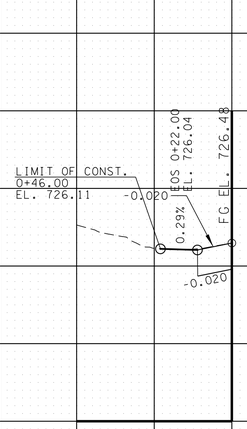
S.R. 109
BUS. ENT. RT. 419+95.00
L & W PROPERTIES GROUP
(NO SD REQD.)



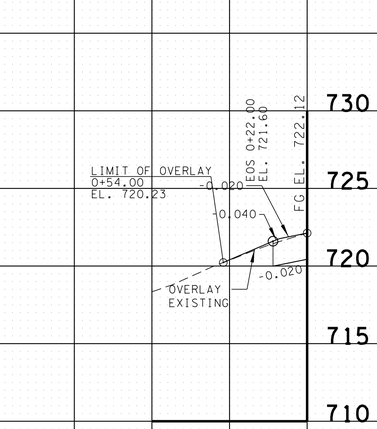
S.R. 109
PVT. DR. LT. 367+25.00
TRACT NO. 28
(NO SD REQD.)



S.R. 109
FLD. ENT. RT. 414+56.00
TRACT NO. 45
(NO SD REQD.)



S.R. 109
BUS. ENT. LT. 413+88.00
TRACT NO. 42
(NO SD REQD.)



S.R. 109
BUS. ENT. LT. 419+67.00
TRACT NO. 44
(NO SD REQD.)

UNOFFICIAL SET
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DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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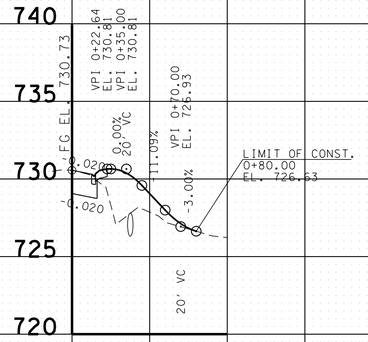
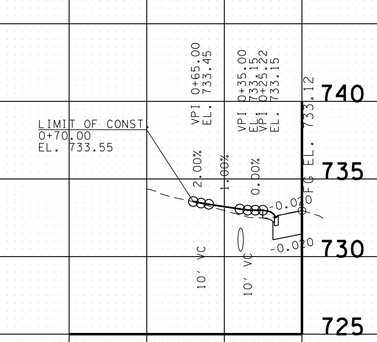
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AH
CONST.	2014	STP/HPP/NH-I-65-3(113)	58

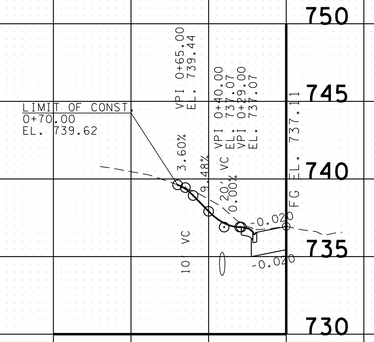
REV. 7-10-14: ADDED BUS. ENT. LT. STA. 420+31.



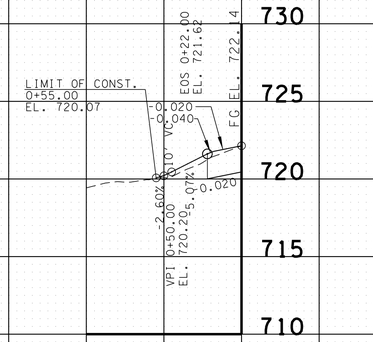
S.R. 41 LT
FLD. ENT. RT. 1123+25.00
JAMES H. CUMMINGS JR.
(38' - 18" SD REQD.)



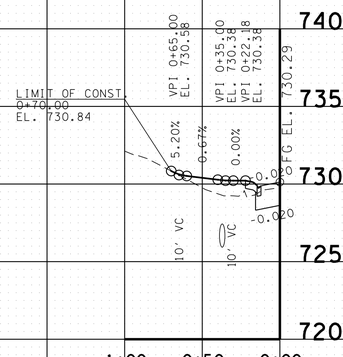
S.R. 41 LT
PVT. DR. LT. 1124+66.95
TRACT 58
(24' - 18" SD REQD.)



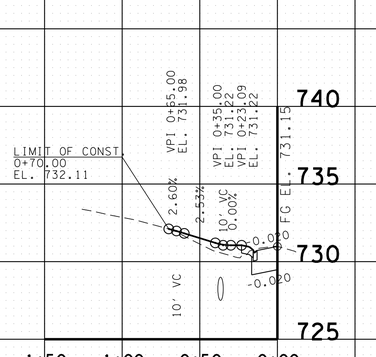
S.R. 41 LT
PVT. DR. LT. 1127+13.80
GARY T. FERGUSON, ETUX JANA FERGUSON
(26' - 18" SD REQD.)



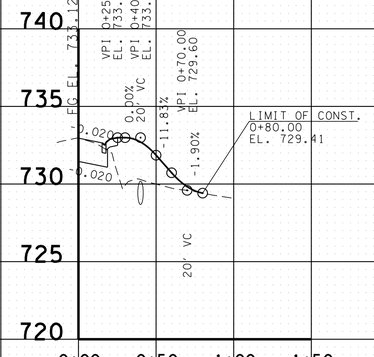
S.R. 109
BUS. ENT. LT. 420+31.00
TRACT NO. 44
(NO SD REQD.)



S.R. 41 LT
PVT. DR. LT. 1123+00.00
JAMES H. CUMMINGS, ETUX JOYCE CUMMINGS
(30' - 18" SD REQD.)



S.R. 41 LT
PVT. DR. LT. 1123+50.00
JAMES H. CUMMINGS, ETUX JOYCE CUMMINGS
(28' - 18" SD REQD.)



S.R. 41 LT
FLD. ENT. RT. 1124+66.95
JOE DAVID CUMMINGS
(38' - 18" SD REQD.)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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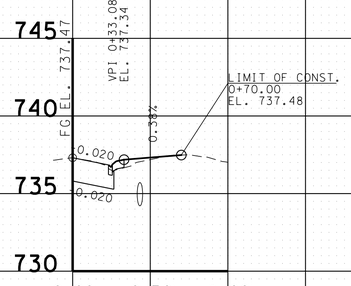
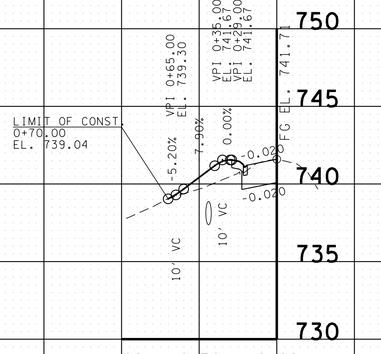
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

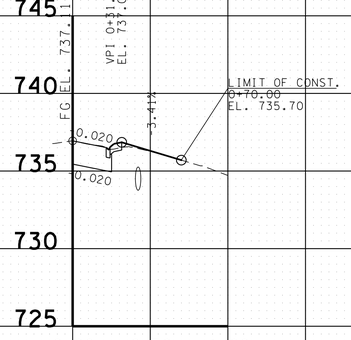
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24A1
CONST.	2014	STP/HPP/NH-I-65-3(113)	59



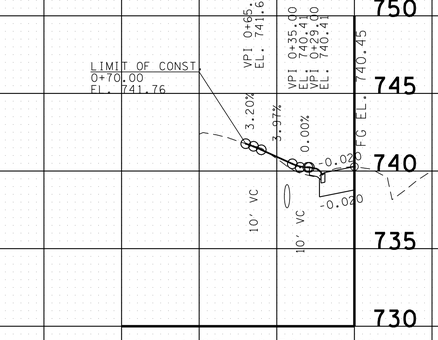
S.R. 41 LT
PVT. DR. RT. 1127+35.91
TRACT NO. 15
(22' - 18" SD REQD.)



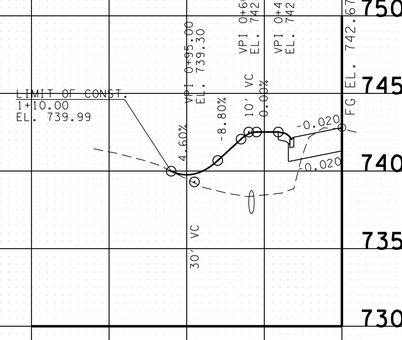
S.R. 41 LT
PVT. DR. LT. 1130+80.00
TRACT NO. 20
(30' - 18" SD REQD.)



S.R. 41 LT
PVT. DR. RT. 1127+13.88
ROBERT ALLISON, ETUX PATTI ALLISON
(24' - 18" SD REQD.)



S.R. 41 LT
PVT. DR. LT. 1129+35.00
TRACT 19
(24' - 18" SD REQD.)



S.R. 41 RT
FLD. ENT. LT. 1133+85.00
TRACT NO. 21
(42' - 18" SD REQD.)

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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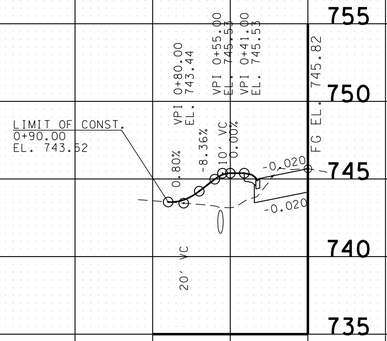
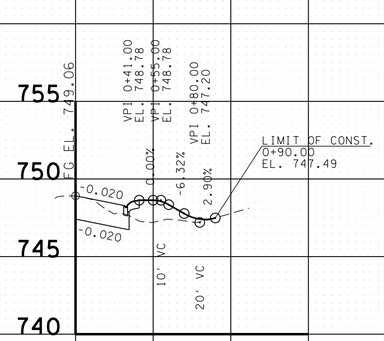
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

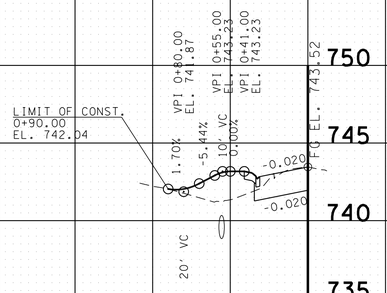
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AJ
CONST.	2014	STP/HPP/NH-I-65-3(113)	60



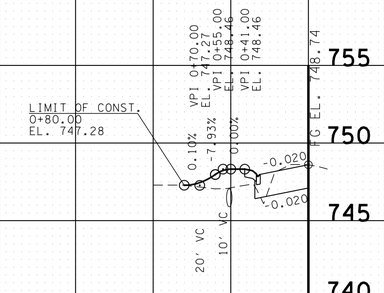
S.R. 41 RT
BUS. ENT. LT. 1136+01.00
TRACT NO. 22
(56' - 18" SD REQD.)



S.R. 41 RT
PVT. DR. RT. 1137+85.00
TRACT NO. 8
(NO SD REQD.)



S.R. 41 RT
PVT. DR. LT. 1134+53.45
TRACT NO. 21
(44' - 18" SD REQD.)



S.R. 41 RT
FLD. ENT. LT. 1137+65.00
TRACT NO. 23
(30' - 23"X14" HOCP SD REQD.)

UNOFFICIAL SET
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SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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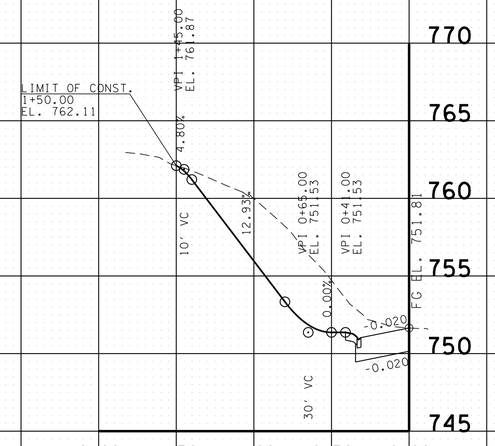
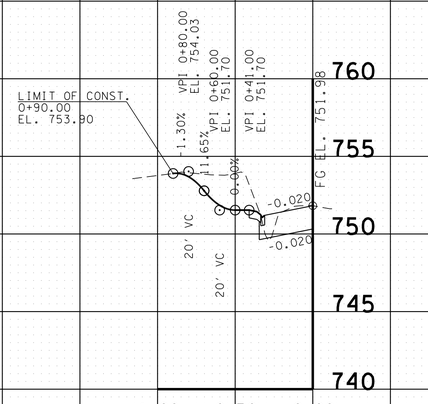
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

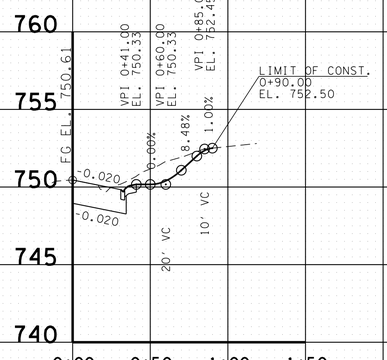
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AK
CONST.	2014	STP/HPP/NH-I-65-3(113)	61



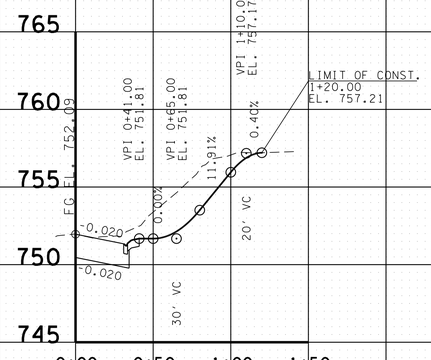
S.R. 41 RT
PVT. DR. LT. 1140+74.00
TRACT NO. 25
(NO SD REQD.)



S.R. 41 RT
FLD. ENT. LT. 1142+55.00
TRACT NO. 60
(NO SD REQD.)



S.R. 41 RT
PVT. DR. RT. 1139+05.00
TRACT NO. 8
(NO SD REQD.)



S.R. 41 RT
PVT. DR. RT. 1142+11.50
TRACT NO. 17
(NO SD REQD.)

UNOFFICIAL SET
NOT FOR BIDDING

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DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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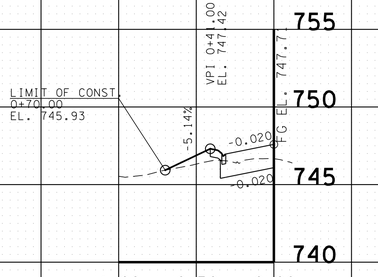
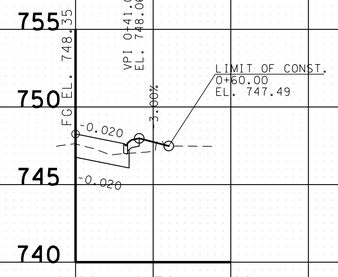
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

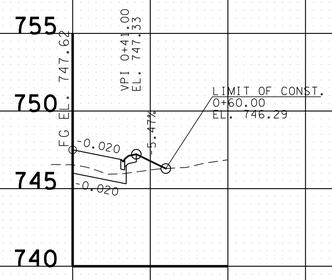
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AL
CONST.	2014	STP/HPP/NH-I-65-3(113)	62



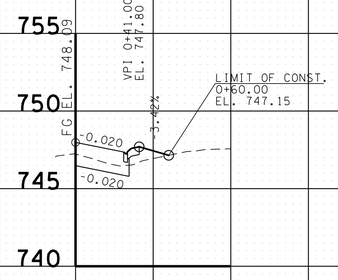
S.R. 41 RT
FLD. ENT. LT. 1150+76.47
TRACT NO. 61
(NO SD REQD.)



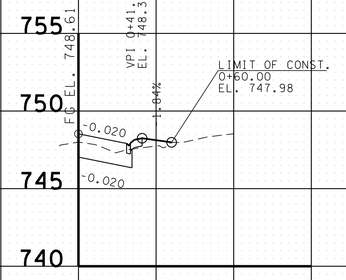
S.R. 41 RT
BUS. ENT. RT. 1152+31.47
JERRY JOHNS
(NO SD REQD.)



S.R. 41 RT
BUS. ENT. RT. 1150+55.00
CONSTANCE DECARL
(NO SD REQD.)



S.R. 41 RT
BUS. ENT. RT. 1151+67.39
CONSTANCE DECARL
(NO SD REQD.)



S.R. 41 RT
BUS. ENT. RT. 1152+91.47
JERRY JOHNS
(NO SD REQD.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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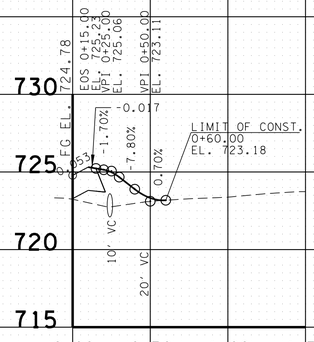
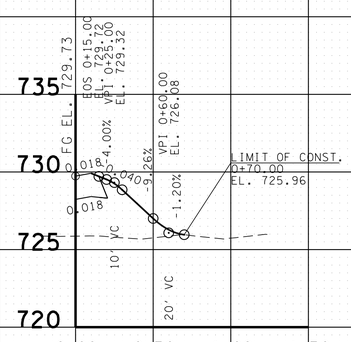
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

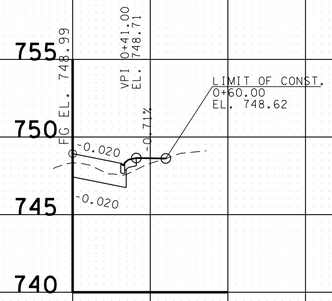
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AM
CONST.	2014	STP/HPP/NH-I-65-3(113)	63



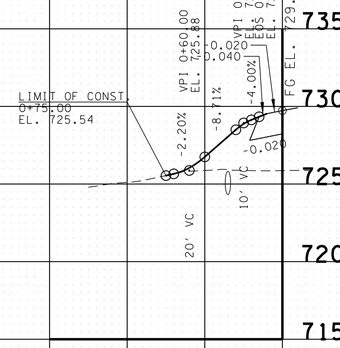
TGT ROAD TIE
FLD. ENT. RT. 12+00.00
TRACT NO. 9
(32' - 18" SD REQD.)



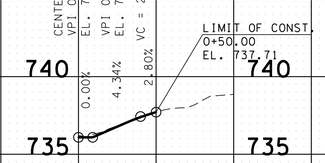
TGT ROAD TIE
FLD. ENT. RT. 14+00.00
TRACT NO. 8
(NO SD REQD.)



S.R. 41 RT
BUS. ENT. RT. 1153+71.47
HIGH TIDE INC.
(NO SD REQD.)



TGT ROAD TIE
FLD. ENT. LT. 14+00.00
TRACT NO. 8
(36' - 18" SD REQD.)



PVT. DRV. LT.
OFF CUL-DE-SAC
STA. 64+12.86 OF EXIST. TGT RD.
TRACT NO. 16
(NO SD REQD.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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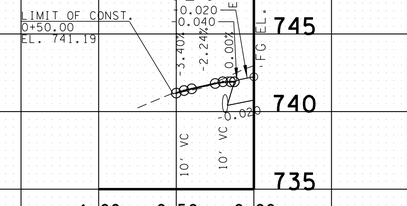
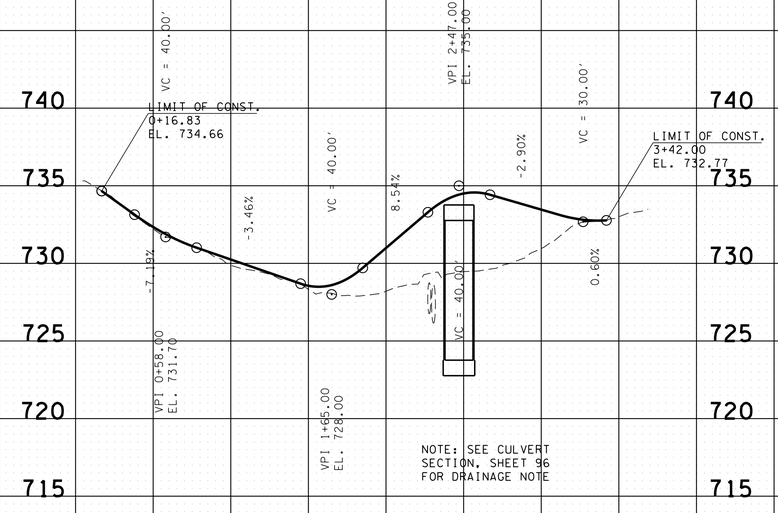
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24AN
CONST.	2014	STP/HPP/NH-I-65-3(113)	64

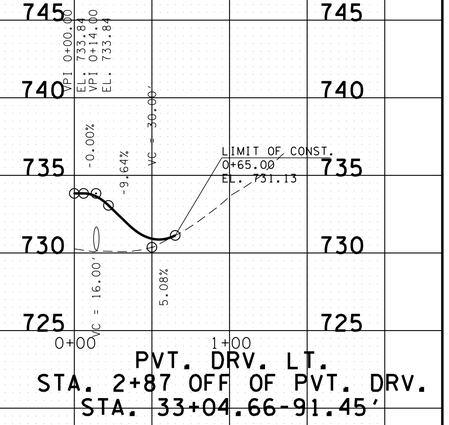
REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.



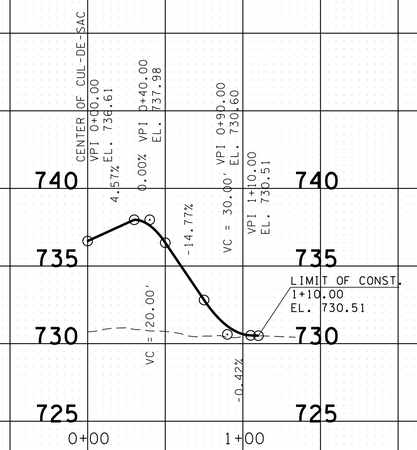
EUBANKS ROAD
FLD. ENT. LT. 27+19.50
TRACT NO. 40
(30' - 23"X14" HOCP SD REQD.)



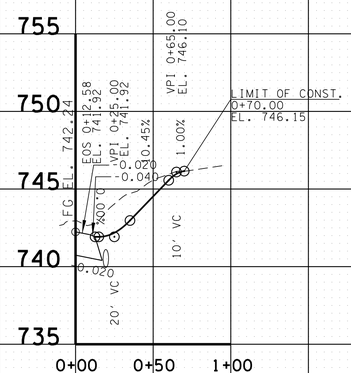
PVT. DRV.
STA. 38+43.61 LT. OF
LAKE SPRINGS ROAD TIE TO S. DETOUR RD.
TRACTS NO. 32 & 36
(18.8 LF. OF 18' X 9' RCBB REQD.)



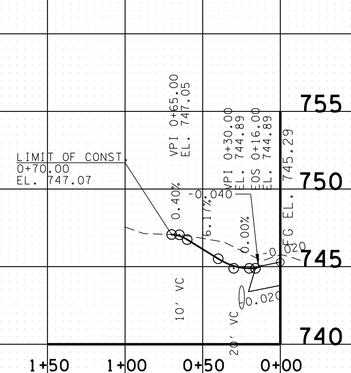
PVT. DRV. LT.
STA. 2+87 OFF OF PVT. DRV.
STA. 33+04.66-91.45'
LT. OF LAKE SPRINGS ROAD
TIE TO S. DETOUR RD.
TRACT NO. 37
(30 LF. OF 18" S.D. REQD.)



S. OLD DETOUR RD. OFF CUL-DE-SAC
PVT. DRV. LT. 206.66'
STA. 1854+65 OF I-65
TRACT NO. 33
(NO SD REQD.)



EUBANKS ROAD
PVT. DR. RT. 27+19.50
TRACT NO. 39
(22' - 23"X14" HOCP SD REQD.)



EUBANKS ROAD
FLD. ENT. LT. 31+30.00
TRACT NO. 40
(32' - 18" SD REQD.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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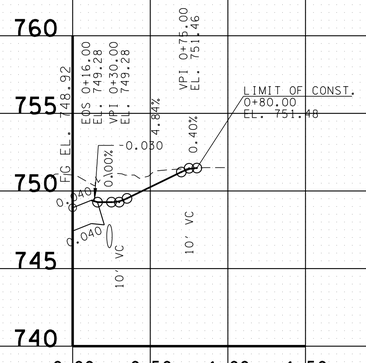
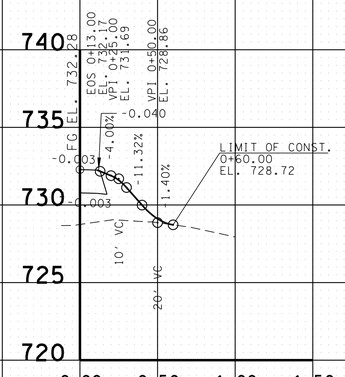
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

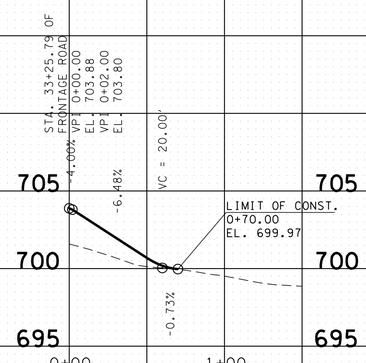
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	24A0
CONST.	2014	STP/HPP/NH-I-65-3(113)	65



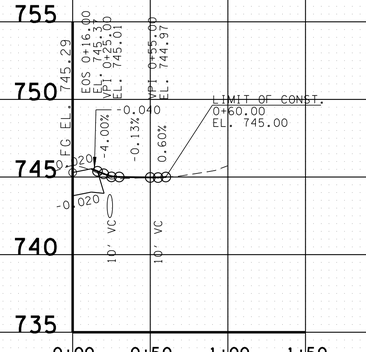
EUBANKS ROAD
PVT. DR. RT. 32+40.00
TRACT NO. 38
(24' - 18" SD REQD.)



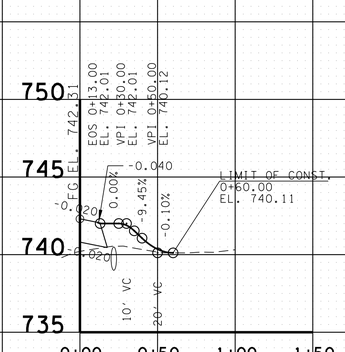
FRONTAGE ROAD
FLD. ENT. RT. 29+00.00
TRACT NO. 32
(NO SD REQD.)



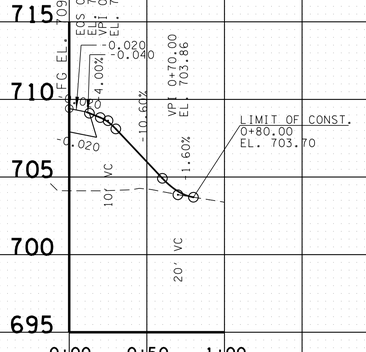
FLD. ENT.
OFF CUL-DE-SAC
FRONTAGE ROAD
TRACT NO. 43
(NO SD REQD.)



EUBANKS ROAD
FLD. ENT. RT. 31+30.00
TRACT NO. 32
(32' - 18"SD REQD.)



FRONTAGE ROAD
FLD. ENT. RT. 13+50.00
TRACT NO. 32
(34' - 18" SD REQD.)



FRONTAGE ROAD
FLD. ENT. RT. 32+00.00
TRACT NO. 62
(NO SD REQD.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	66

N

FRONTAGE ROAD
RAMP H
RAMP G
RAMP F
RAMP E
S.R. 99
RAMP A
RAMP B
RAMP C
RAMP D
RAMP "I"
I-65 (S.B.)
I-65 (N.B.)
EXIST. 15" RCP TO BE PLUGGED
EXIST. C.B. TO BE REMOVED.
EXIST. 24" RCP TO BE PLUGGED
EXIST. 12"x18" ARCH AND ENDWALL TO BE REMOVED

1840 1845 1850 1855 1860

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

I-65/S.R. 109 INTERCHANGE GRADING PLAN

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	25
CONST.	2014	STP/HPP/NH-I-65-3(113)	67

REV. 04-02-14: UPDATED R.O.W. BEGIN PROJ. STATION.

74003-3164-44

BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

DRAINAGE DATA FOR PIPE

STATION 1802+01
DIRECTION OF FLOW RT. (EAST)
DRAINAGE AREA 30.16 AC. (FLAT.) ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 30" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS:

DRAINAGE DATA FOR PIPE

STATION 1811+85
DIRECTION OF FLOW RT. (EAST)
DRAINAGE AREA 45.78 AC. (FLAT.) ROLLING, HILLY, MTNS.
PRESENT STRUCTURE: 42" R.C.P.
EXISTING STRUCTURE CONDITION:
REMARKS:

STA. 724+41.18 CD ROAD =
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456

STA. 479+33.29 RAMP H C.L. =
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078

STA. 300+00.00 RAMP E C.L. =
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726

STA. 114+14.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6387
E 1800299.1533

STA. 380+00.00 S.R. 109 C.L. =
STA. 137+58.49 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 100+00.00 RAMP A C.L. =
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177

STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3384
E 1801142.4102

6'x4' RCBC
RAMP H 467+25.37
DA = 80.81 AC.
Tc = 52.00 min
C = 0.52
Q50 = 134.05 CFS
Q100 = 146.91 CFS

24" RCP
RAMP H 474+26.37
DA = 4.02 AC.
Tc = 16 min
C = 0.52
Q50 = 11.34 CFS
Q100 = 12.08 CFS

6'x4' RCBC
RAMP E 307+06.56
DA = 73.76 AC.
Tc = 51.00 min
C = 0.52
Q50 = 122.89 CFS
Q100 = 134.59 CFS

36" RCP
I-65 1847+70
DA = 16.39 AC.
Tc = 26.80 min
C = 0.56
Q50 = 41.17 CFS

24" RCP
RAMP A 109+81.65
DA = 2.20 AC.
Tc = 11.00 min
C = 0.56
Q50 = 7.83 CFS
Q100 = 8.35 CFS

30" RCP
SR-109 378+92.49
DA = 9.32 AC.
Tc = 24 min
C = 0.475
Q50 = 20.88 CFS
Q100 = 22.45 CFS

18" RCP
LAKE SPRINGS RD 73+65.00
DA = 1.59 AC.
Tc = 15.50 min
C = 0.50
Q50 = 4.37 CFS
Q100 = 4.65 CFS

30" RCP
SR-41 LT. 1131+25.00
DA = 8.89 AC.
Tc = 37 min
C = 0.38
Q50 = 13.09 CFS
Q100 = 14.23 CFS

36" RCP
SR-41 RT. 1133+12.00
DA = 8.24 AC.
Tc = 16.80 min
C = 0.55
Q50 = 24.47 CFS
Q100 = 26.10 CFS

POTENTIAL SINKHOLE LOCATIONS

POND

SUMMERS BRANCH

STR-1

WWC-2 WWC-3 WWC-4

MATCH LINE STA. 362+85.00 SEE SHEET NO. 69

MATCH LINE SEE SHEET NO. 68

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

STATION 1831+00
3 @ 15'X10', 90°SKEW RCBB TO BE EXTENDED BOTH INLET AND OUTLET

DRAINAGE AREA	9.15 SQ. MI.
DESIGN DISCHARGE (100 YR)	3360 CFS
100 YR BACKWATER	0.83 FT AT EL 699.66
100 YR VELOCITY	18.34 FPS
500 YR DISCHARGE	4500 CFS AT EL 701.89
INLET ELEVATION	691.00
OUTLET ELEVATION	689.20
APPROACH OVERTOPPING ELEVATION	707.88
STANDARD DRAWING NUMBERS	STD-17-103, STD-17-10

CATCH BASIN	D.A.	C	TC	Q10	Q50	Q100
CB-12	0.35	0.54	5		1.56	1.66
CB-13	0.65	0.90	5		4.81	5.14
CB-14	0.65	0.90	5		4.81	5.15
CB-21	0.26	0.90	5		1.95	2.09
CB-22	0.26	0.90	5		1.96	2.09
CB-23	0.39	0.90	5		2.89	3.09
CB-24	0.39	0.90	5		2.89	3.09
CB-25	0.61	0.90	5		4.51	4.82
CB-26	0.61	0.90	5		4.51	4.82
CB-27	0.28	0.90	5		2.10	2.24
CB-28	0.28	0.90	5		2.09	2.24
CB-29	0.12	0.90	5		0.88	0.94
CB-30	0.12	0.90	5		0.88	0.94
CB-131	0.22	0.90	5		1.67	1.78
CB-48	0.11	0.90	5		0.84	0.90
CB-49	0.51	0.90	5		3.78	4.05
CB-50	0.12	0.90	5		0.86	0.92
CB-51	0.52	0.90	5		3.86	4.13
CB-52	0.18	0.90	5		1.35	1.45
CB-53	0.37	0.90	5		3.28	3.56
CB-54	0.31	0.90	5		2.31	2.47
CB-55	0.08	0.90	5		0.58	0.62
CB-58	0.04	0.9	5	0.23		
CB-59	0.05	0.90	5	0.29		
CB-60	0.05	0.90	5	0.28		
CB-61	0.26	0.90	6	0.56		
CB-62	0.04	0.90	5	0.27		
CB-63	0.07	0.90	5	0.43		
CB-64	0.06	0.90	5	0.38		
CB-65	0.05	0.90	5	0.32		
CB-66	0.07	0.07	5	0.41		
CB-67	0.05	0.90	5	0.32		
CB-68	0.08	0.90	5	0.49		
CB-68A	0.08	0.90	5	0.51		
CB-88	0.47	0.90	5		2.32	2.48

UNOFFICIAL SET
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SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

B.O.P. TO STA. 1850+00
SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	25A
CONST.	2014	STP/HPP/NH-I-65-3(113)	68

REV. 12-09-13: UPDATED DRAINAGE FOR S.R. 109 FROM STA. 409+00 TO STA. 421+00.

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8708

SINKHOLE 2 (FILLED WITH DEBRIS)

RMPH 451+75 CB

POND PND-1 (DRY)

SINKHOLE 1

SINKHOLE 3

SINKHOLE 4

POTENTIAL SINKHOLE LOCATION

2 @ 14'x9' RCBB
FRONTAGE ROAD 11+20
DA = 0.75 SQ. MI.
Q100 = 551 CFS

3 @ 18'x9' RCBB
SR109 397+60
DA = 0.75 SQ. MI.
Q100 = 551 CFS

18" RCP
409+85
DA = 1.60 AC.
Tc = 8.05 min
C = 0.71
Q10 = 6.82
Q50 = 8.19

36" RCP
414+92.58
DA = 17.12 AC.
Tc = 22.30 min
C = 0.43
Q50 = 35.53
Q100 = 38.11

STA. 400+00.00 RAMP G C.L.=
49.00' RT STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885

STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.48 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2363

30" RCP
386+69.59
DA = 5.46 AC.
Tc = 13.30 min
C = 0.45
Q50 = 14.51 CFS
Q100 = 15.47 CFS

18"x9" RCBC
PVT.DRIVE 2+47
DA = 0.75 SQ. MI.
Q100 = 551 CFS

18"x9" RCBC
LAKE SPRINGS RDS. TIE TO OLD DETOUR RD.
DA = 0.75 SQ. MI.
Q100 = 551 CFS

18"x9" RCBC
RAMP I 499+27
DA = 0.75 SQ. MI.
Q100 = 551 CFS

STA. 353+35.93 RAMP F C.L.=
STA. 382+10.86 S.R. 109
N 837320.0261
E 1799579.9824

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201

STA. 650+00.00 C D ROAD =
49.35' LT STA. 1900+00.00 I-65
N 841503.8166
E 1801257.5539

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718

48" RCP
I-65 1852+29.98
DA = 26.84 AC.
Tc = 29.70 min
C = 0.52
Q50 = 58.51 CFS
Q100 = 63.39 CFS

36" RCP
RAMP C 211+44.00
DA = 8.59 AC.
Tc = 16.95 min
C = 0.50
Q50 = 23.22 CFS
Q100 = 24.77 CFS

19"x30" HDSP
FRED WHITE 82+34.00
DA = 0.75 AC.
Tc = 5.00 min
C = 0.39
Q50 = 2.79 CFS
Q100 = 2.95 CFS

36" RCP
RAMP C 204+71.10
DA = 10.87 AC.
Tc = 16.00 min
C = 0.59
Q50 = 34.88 CFS
Q100 = 37.18 CFS

36" RCP
FRED WHITE 81+00.00
DA = 9.80 AC.
Tc = 12.00 min
C = 0.58
Q50 = 35.48 CFS
Q100 = 37.83 CFS

18' X 8' RCBC
I65 1865+70
DA = 0.75 SQ. MI.
Q100 = 551 CFS

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

STA. 600+00.00 RAMP K C.L.=
STA. 558+29.96 RAMP J
N 839095.0387
E 1800538.0643

24" RCP EXT.
1877+48.66
DA = 1.15 AC.
Tc = 13.78 min
C = 0.47
Q50 = 3.12 CFS
Q100 = 3.33 CFS

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491

STA. 83+75.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.

STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

MATCH LINE STA. 1850+00.00 SEE SHEET NO. 67

MATCH LINE THIS SHEET

TENNESSEE
KENTUCKY

CATCH BASIN	D.A.	C	TC	Q10	Q50	Q100
CB-10	1.85	0.90	5		13.75	14.70
CB-15	0.6	0.90	5		5.15	5.54
CB-16	0.2	0.90	5		1.46	1.56
CB-18	0.71	0.90	5		5.26	5.63
CB-20	0.77	0.90	5		5.73	6.13
CB-22	0.53	0.90	5		3.91	4.18
CB-30	0.16	0.71	5		0.92	0.99
CB-30A	0.13	0.90	5		0.97	1.03
CB-30C	0.03	0.90	5		0.22	0.24

CATCH BASIN	D.A.	C	TC	Q10	Q50	Q100
CB-31	0.05	0.9	5		0.337	0.361
CB-32	0.03	0.90	5		0.20	0.22
CB-34	1.20	0.90	5		0.89	0.95
CB-36	0.63	0.90	5		4.67	4.99
CB-38	0.39	0.90	5		2.89	3.08
CB-40	0.56	0.90	5		4.16	4.44
CB-42	0.41	0.90	5		3.03	3.23
CB-44	0.69	0.90	5		5.11	5.47
CB-46	0.51	0.90	5		3.76	4.02
CB-48	0.62	0.90	5		4.63	4.95
CB-69	0.02	0.90	5	0.105	0.13	
CB-70	0.01	0.90	5	0.08	0.10	
CB-71	0.02	0.90	5	0.137	0.17	
CB-72	0.02	0.90	5	0.119	0.14	

CATCH BASIN	D.A.	C	TC	Q10	Q50	Q100
CB-73	0.07	0.9	5	0.442	0.532	
CB-74	0.11	0.90	5	0.67	0.80	
CB-74A	0.05	0.90	5	0.32	0.38	
CB-75	0.50	0.90	5	3.09	3.72	
CB-89	0.58	0.35	5		2.30	2.46
CB-123	0.16	0.71	5		0.92	0.98
CB-124	0.09	0.68	5	0.40	0.49	
CB-125 EXISTING	0.42	0.72	5	2.09	2.52	
CB-126 EXISTING	0.50	0.60	5.55	2.00	2.41	
CB-128	0.20	0.49	5	0.69	0.83	
CB-128A	0.24	0.51	5	0.84	1.01	
CB-129	0.14	0.40	5	0.38	0.45	
CB-130	0.53	0.73	5	2.65	3.19	
CB-RAMPH 451+75	0.25	0.55	5		1.14	1.22

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SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 1850+00 TO E.O.P.
SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CATCH BASIN	D.A.	C	TC	Q10	Q50	Q100
CB-1	1.12	0.69	16		4.21	4.49
CB-56	1.23	0.55	28.26		2.94	3.18
CB-57	0.89	0.90	26.92		2.29	2.47
CB-92	0.63	0.51	11.5		2.04	2.17
CB-93	0.22	0.81	5	1.316		
CB-95	0.21	0.82	5	1.39		
CB-96	0.53	0.85	5	3.07		
CB-97	0.11	0.82	5	0.84		
CB-98	0.10	0.81	5	0.99		
CB-99	0.11	0.81	5	0.67		
CB-100	0.09	0.78	6.84	0.59		
CB-101	0.24	0.80	5	1.32		
CB-101A	0.14	0.84	5	0.799		
CB-102	0.21	0.85	5	1.226		
CB-102A	0.20	0.84	5	1.174		
CB-103	2.38	0.83	6.9	12.28	14.86	
CB-104	0.47	0.84	5	2.68		
CB-106	0.44	0.84	5	2.564		
CB-107	0.22	0.82	5	1.253		

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	25B
CONST.	2014	STP/HPP/NH-I-65-3(113)	69

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

DRAINAGE/ HYDRAULIC DATA FOR BRIDGE
STATION 52+77.53 EX.TGT RD. STREAM NAME UNNAMED TRIBUTARY
STREAM BED LINING: DIRT AND GRAVEL
DIRECTION OF FLOW SOUTH
DRAINAGE AREA 714 AC. FLAT, (ROLLING) HILLY, MTNS.
PRESENT STRUCTURE: SPAN 14' HEIGHT 9' STRUCTURE CONCRETE BOX SUPERSTRUCTURE
BEGIN STATION-OFFSET 52+71 END STATION-OFFSET 52+85
LOW BEAM ELEV. LOCATION.
INLET INVERT ELEV. 714.38 OUTLET INVERT 714.32
NORMAL WATER ELEV. 714.68 EXTREME HIGHWATER ELEV. 723.31 DATE. MAY 2010
HOW OBTAINED. FROM PROPERTY OWNER
BACKWATER FROM WHAT STREAM (IF APPLICABLE):
EXISTING STRUCTURE CONDITION: GOOD
SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER. SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.
SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.
REMARKS:

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 S.R. 109 TIE
N 833632.8824
E 1805484.3376

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767

STA. 341+50.88 - 118.92 LT
BEGIN STR-3 CHANNEL CHANGE

STA. 343+50.00 - 117.38 LT
BEGIN STR-3 CHANNEL CHANGE

38" X 24" HOCP
TGT TIE 10+60
DA = 6.03 AC.
Tc = 15.30 min
C = 0.42
Q50 = 14.08 CFS
Q100 = 15.00 CFS

36" RCP
TGT TIE 14+70
DA = 12.98 AC.
Tc = 49 min
C = 0.47
Q50 = 20.32 CFS
Q100 = 22.23 CFS

30" RCP
S.R.41 LT. 1131+25
DA = 8.89 AC.
Tc = 37 min
C = 0.38
Q50 = 13.09 CFS
Q100 = 14.23 CFS

30" RCP
SR-109 332+36
DA = 9.70 AC.
Tc = 20.01 min
C = 0.39
Q50 = 19.56 CFS
Q100 = 20.59 CFS

24" RCP
SR-109 TIE 90+75
DA = 2.55 AC.
Tc = 11.79 min
C = 0.45
Q50 = 7.14 CFS
Q100 = 7.62 CFS

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331

MATCH LINE STA. 362+85.00 SEE SHEET NO. 67

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44
SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

DRAINAGE DATA FOR PIPE
STATION 316+90 S.R. 109
DIRECTION OF FLOW RT. (NORTH)
DRAINAGE AREA 2.77 AC. FLAT, (ROLLING) HILLY, MTNS.
PRESENT STRUCTURE: 18" C.M.P.
EXISTING STRUCTURE CONDITION:
REMARKS:

STATION 348+65
DRAINAGE AREA 0.94 SQ.MI.
DESIGN DISCHARGE (100 YR) 597 CFS
100 YR BACKWATER 0 FT AT EL 725.87
100 YR VELOCITY 5.07 FPS
500 YR DISCHARGE 808 CFS AT EL 727.22
INLET ELEVATION 718.20
OUTLET ELEVATION 717.50
APPROACH OVERTOPPING ELEVATION 731.51
STANDARD DRAWING NUMBERS STD-17-63,STD-17-16A

140'-5 L.F. OF 16'x10'-7"
75° RT. SKEW RCBC SKEWED 180° TO CENTERLINE

CATCH BASIN	D.A.	C	TC	Q10	Q50	Q100
CB-108	0.47	0.80	5	2.54		
CB-109	0.41	0.40	5	1.11		
CB-110	0.36	0.61	5.0	1.49		
CB-112	1.07	0.60	5	4.71		
CB-114	0.46	0.84	5.00	2.66		
CB-115	0.31	0.85	5		2.96	
CB-116	0.32	0.82	5		2.90	
CB-117	0.08	0.90	5		1.19	1.30
CB-118	0.34	0.90	5.00		2.52	2.70
CB-119	0.08	0.90	5.00		0.60	0.65
CB-120	0.15	0.90	5		1.09	1.17
CB-121	0.38	0.67	5		2.08	2.22

DRAINAGE DATA FOR PIPE
STATION S.R. 109 TIE
DIRECTION OF FLOW RT. (SOUTH)
DRAINAGE AREA 367 AC. FLAT, (ROLLING) HILLY, MTNS.
PRESENT STRUCTURE: 8' X 4' BOX CULV
EXISTING STRUCTURE CONDITION:
REMARKS:

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
74003-3164-44 CONST.
STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29 83008-3229-14 CONST. SUMNER CO.
N 837121.2810 END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
E 1802692.9581 STA. 1154+76.47 S.R. 41 RT.

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 120726
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP
S.R. 109
B.O.P. TO STA.362+85
SCALE: 1"=200'

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TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	26
CONST.	2014	STP/HPP/NH-I-65-3(113)	70

UNOFFICIAL SET

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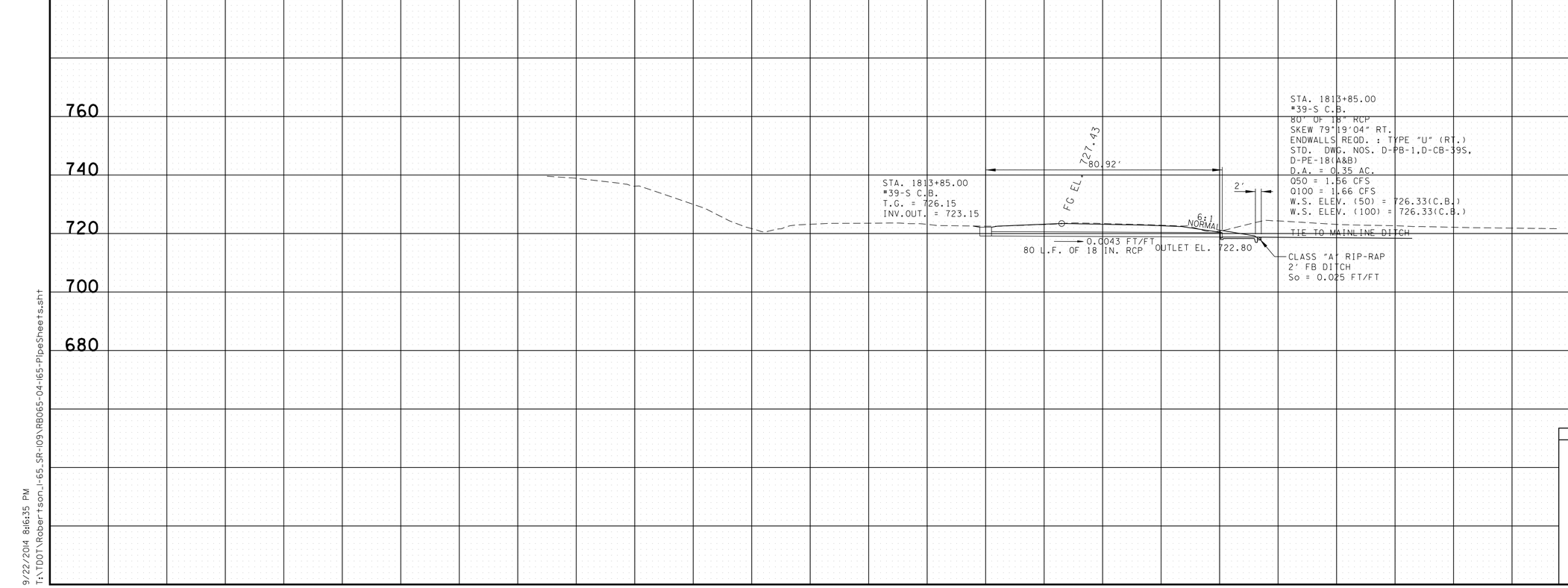

1813+85.00
I-65

SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1813+85.00
TO
STA.1813+85.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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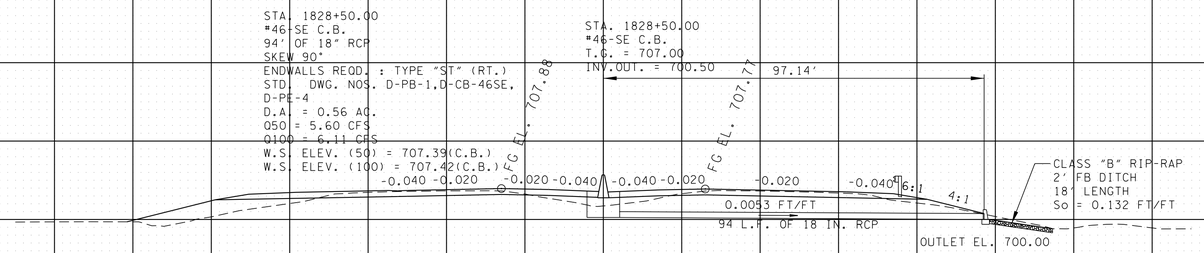
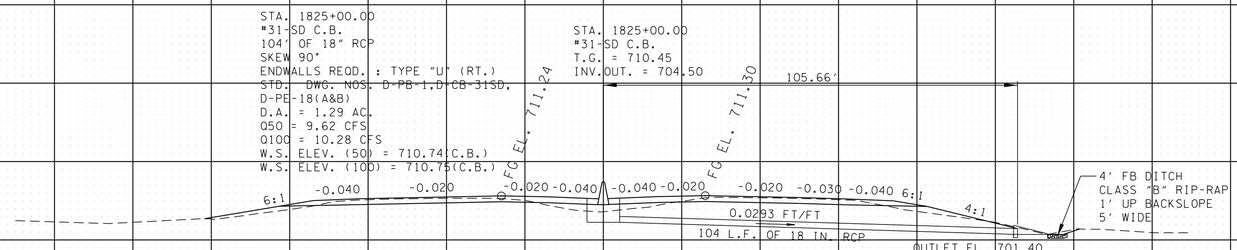
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	27
CONST.	2014	STP/HPP/NH-I-65-3(113)	71

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1828+50.00
I-65



1825+00.00
I-65

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
19796
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1825+00.00
TO
STA.1828+50.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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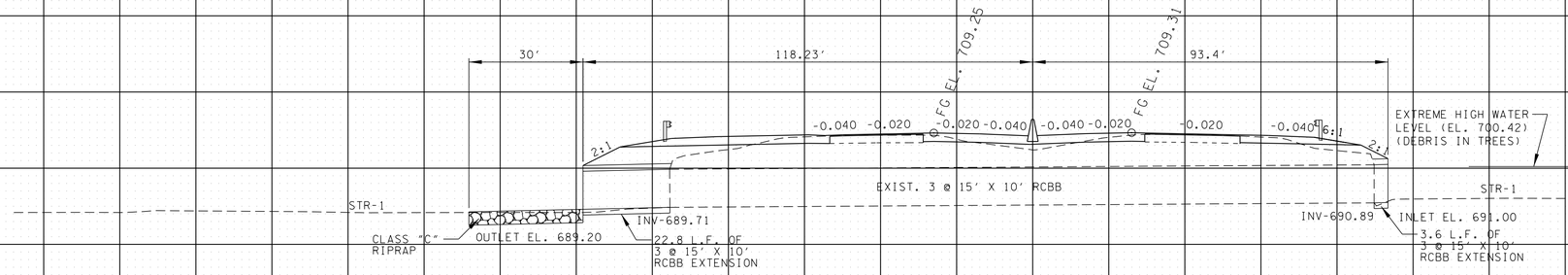
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	28
CONST.	2014	STP/HPP/NH-I-65-3(113)	72

FILE NO.

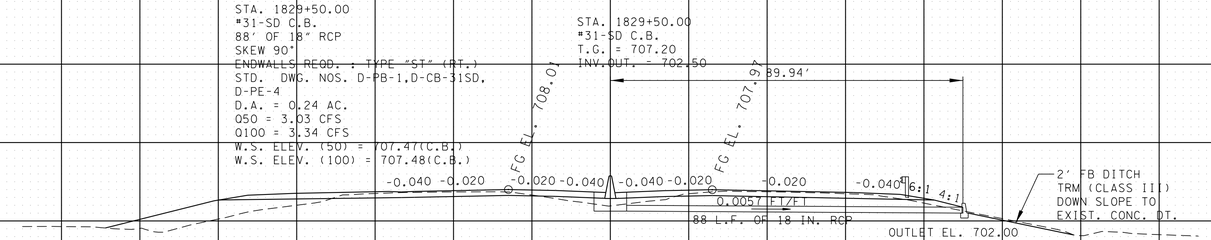
TENNESSEE D.O.T.
DESIGN DIVISION



STATION 1831+00
3 @ 15'X10', 30°SKEW RCBB TO BE EXTENDED BOTH INLET AND OUTLET

TO BE BUILT USING STANDARD FOR 3 @ 16' X 10' BOX BRIDGE	
DRAINAGE AREA	9.15 SQ. MI.
DESIGN DISCHARGE (100 YR)	3360 CFS
100 YR BACKWATER	0.83 FT AT EL 699.66
100 YR VELOCITY	18.34 FPS
500 YR DISCHARGE	4500 CFS AT EL 701.89
INLET ELEVATION	691.00
OUTLET ELEVATION	689.20
APPROACH OVERTOPPING ELEVATION	707.88
STANDARD DRAWING NUMBERS	STD-17-103, STD-17-10

1831+00.00



1829+50.00

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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1829+50.00
TO
STA.1831+00.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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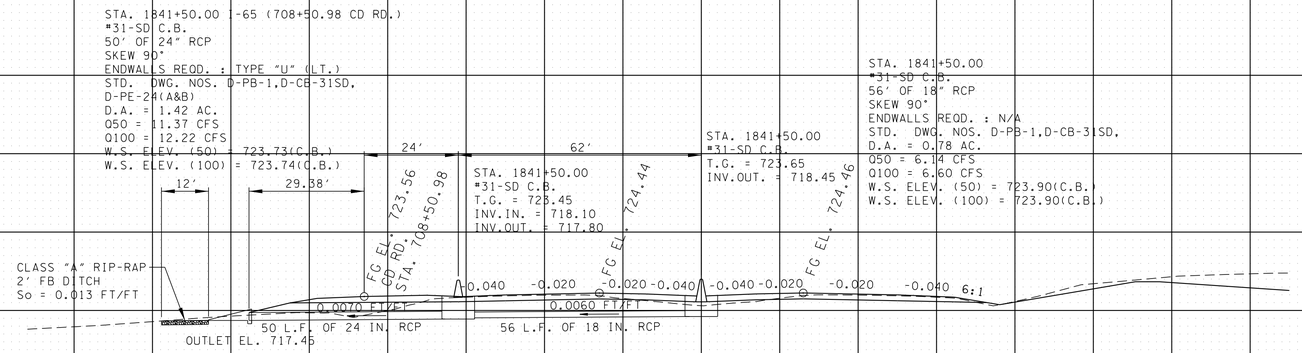
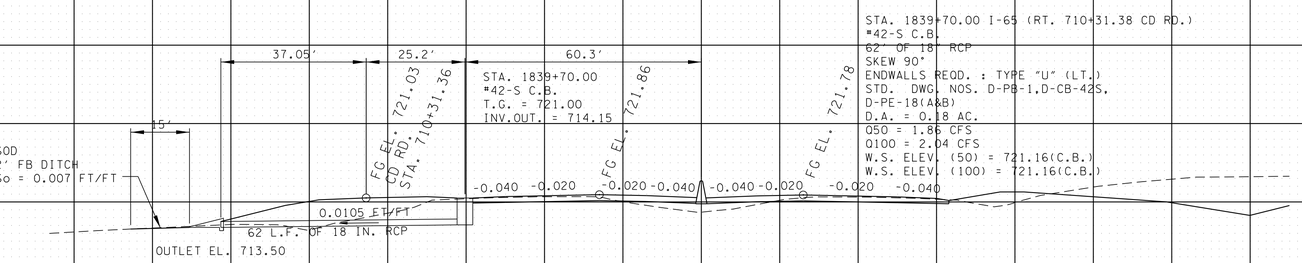
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	29
CONST.	2014	STP/HPP/NH-I-65-3(113)	73

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1841+50.00
I-65



1839+70.00
I-65

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
19739
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1839+70.00
TO
STA.1841+50.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	30
CONST.	2014	STP/HPP/NH-I-65-3(113)	74

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

760

820

800

780

760

740

720

700

680

STA. 1847+70.00
"31-SD C.B.
82' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "B" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-31SD,
D-PE-9(A&B)
D.A. = 0.64 AC.
Q50 = 5.25 CFS
Q100 = 5.66 CFS
W.S. ELEV. (50) = 723.54 (C.B.)
W.S. ELEV. (100) = 723.79 (C.B.)

STA. 1847+70.00
"31-SD C.B.
56' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-PB-1,D-CB-31SD.
D.A. = 0.59 AC.
Q50 = 5.08 CFS
Q100 = 5.50 CFS
W.S. ELEV. (50) = 724.52 (C.B.)
W.S. ELEV. (100) = 724.93 (C.B.)

STA. 1847+70.00
90' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-FB-1,D-PE-36(A&B)
D.A. = 16.39 AC.
Q50 = 41.17 CFS
Q100 = 44.41 CFS
W.S. ELEV. (50) = 725.49
W.S. ELEV. (100) = 726.06

STA. 1847+70.00
"31-SD C.B.
T.G. = 730.20
INV.IN. = 721.00
INV.OUT. = 720.70

36.71' 24.61' 24' 62' 92.42'

43' 21'

FG EL. 728.84
RAMP E
STA. 301+08.01

FG EL. 730.07
CD RD.
STA. 702+31.11

0+21.33 @ 1.1%

STA. 1847+70.00
"31-SD C.B.
T.G. = 730.00
INV.IN. = 720.30
INV.OUT. = 720.00

FG EL. 730.95

FG EL. 731.03

-0.020 -0.020 -0.040 6:1 6:1

TIE TO PROPOSED
I-65 MAINLINE
DITCH

0.006 FT/FT

0.0070 FT/FT

0.011 FT/FT

82 L.F. OF 36 IN. RCP

56 L.F. OF 36 IN. RCP

90 L.F. OF 36 IN. RCP

OUTLET EL. 719.50

INLET EL. 722.00

TRM (CL III)
4' FB DITCH
So = 0.038 FT/FT

CLASS "B"
RIP-RAP
APRON

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

1847+70.00
I-65

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L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
107290
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1847+70.00
TO
STA.1847+70.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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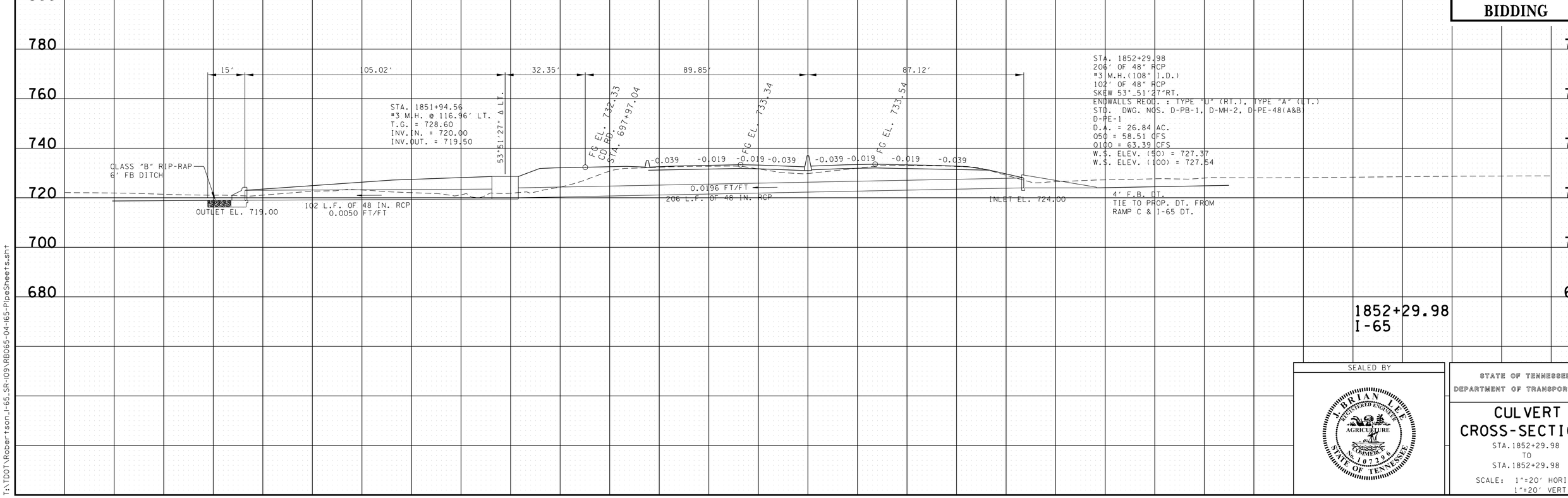
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	31
CONST.	2014	STP/HPP/NH-I-65-3(113)	75

UNOFFICIAL SET

NOT FOR BIDDING



1852+29.98
I-65

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L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1852+29.98
TO
STA.1852+29.98

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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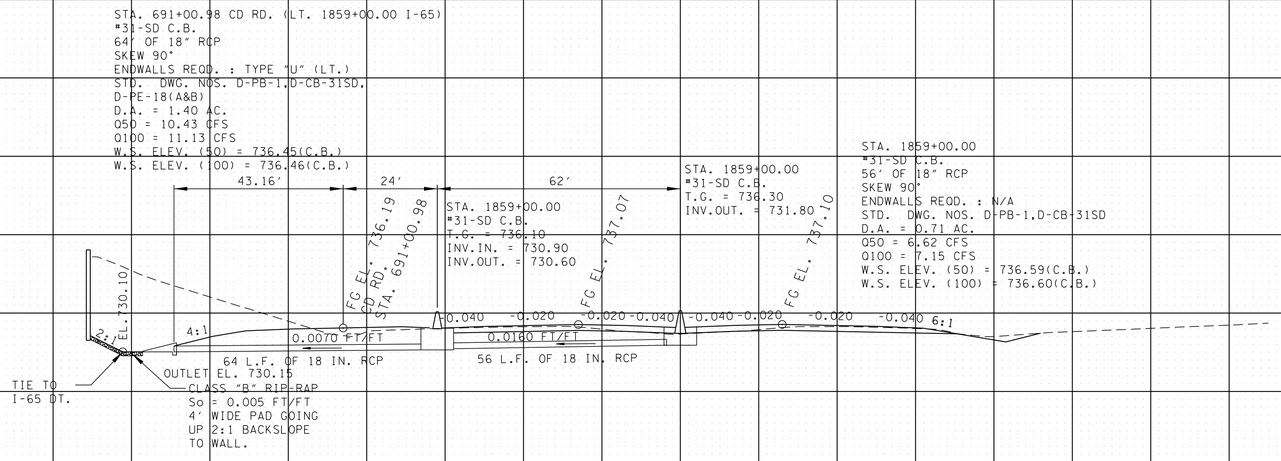
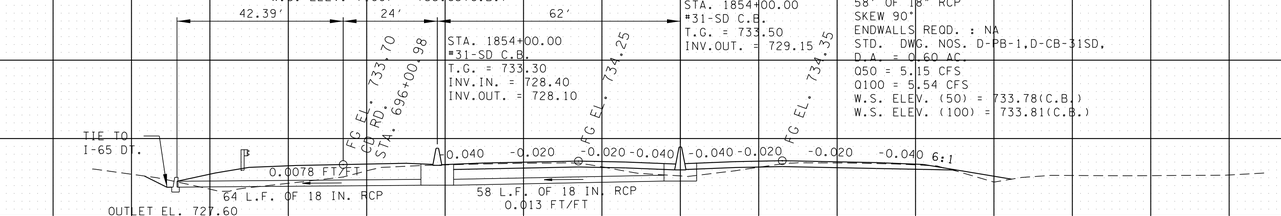
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	32
CONST.	2014	STP/HPP/NH-I-65-3(113)	76

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1859+00.00
I-65



1854+00.00
I-65

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
ORMERO
No. 107229
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1854+00.00
TO
STA.1859+00.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

9/22/2014 8:6:45 PM
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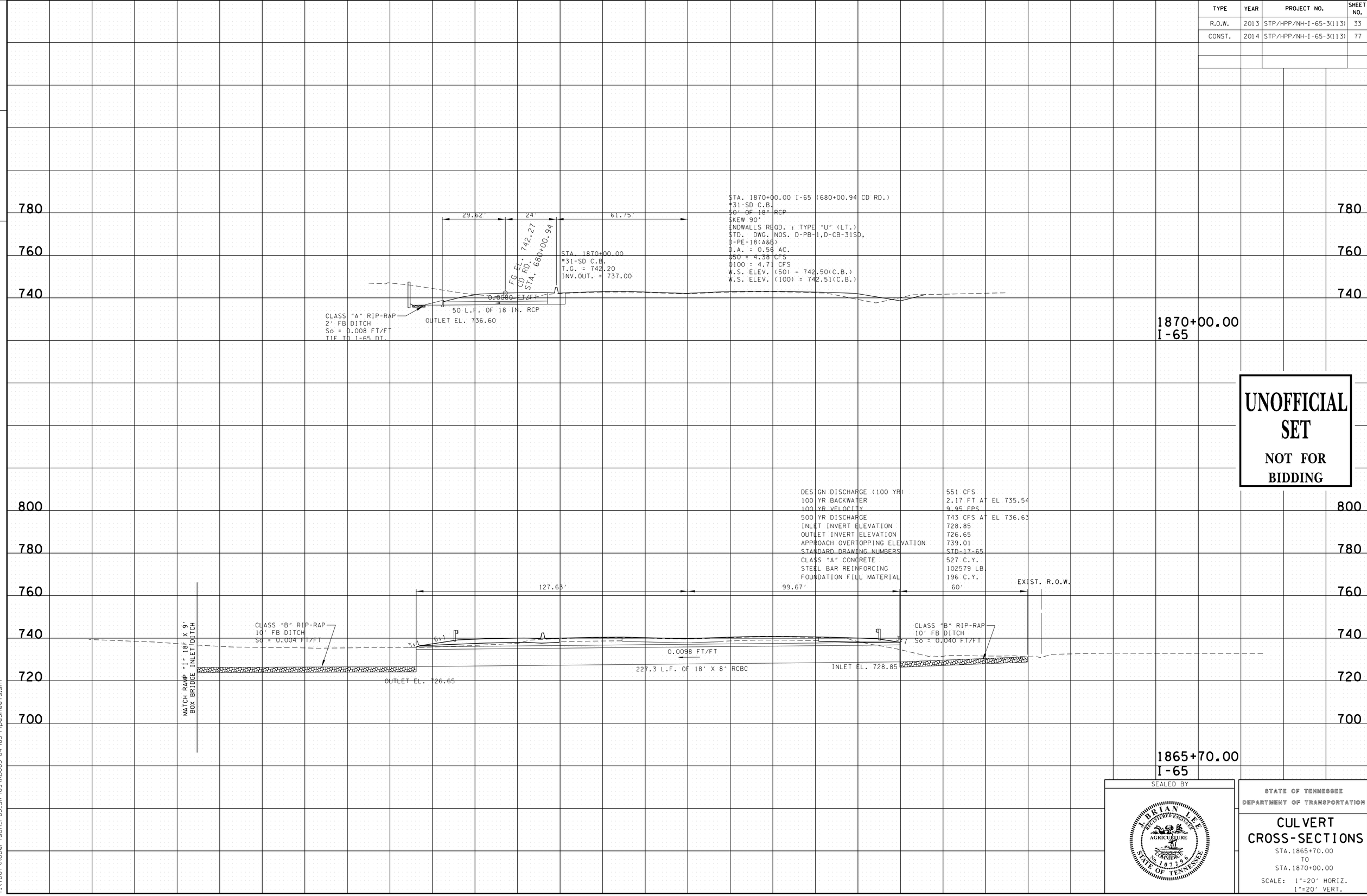
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	33
CONST.	2014	STP/HPP/NH-I-65-3(113)	77



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L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1865+70.00
TO
STA.1870+00.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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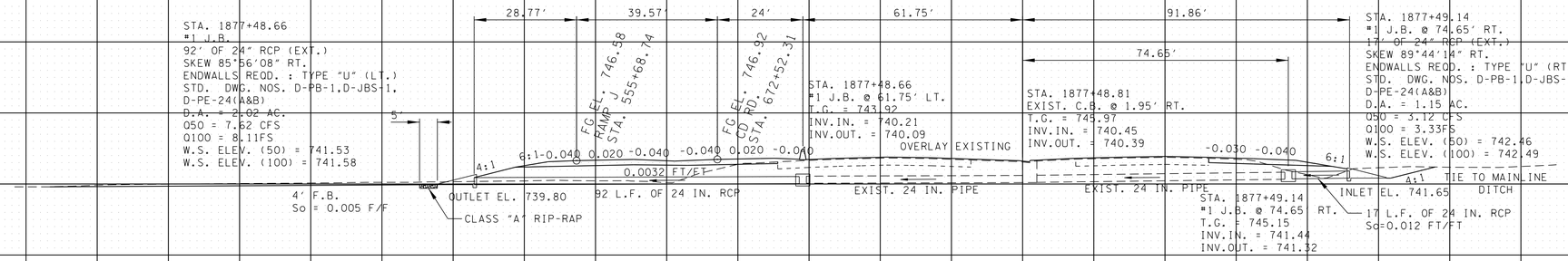
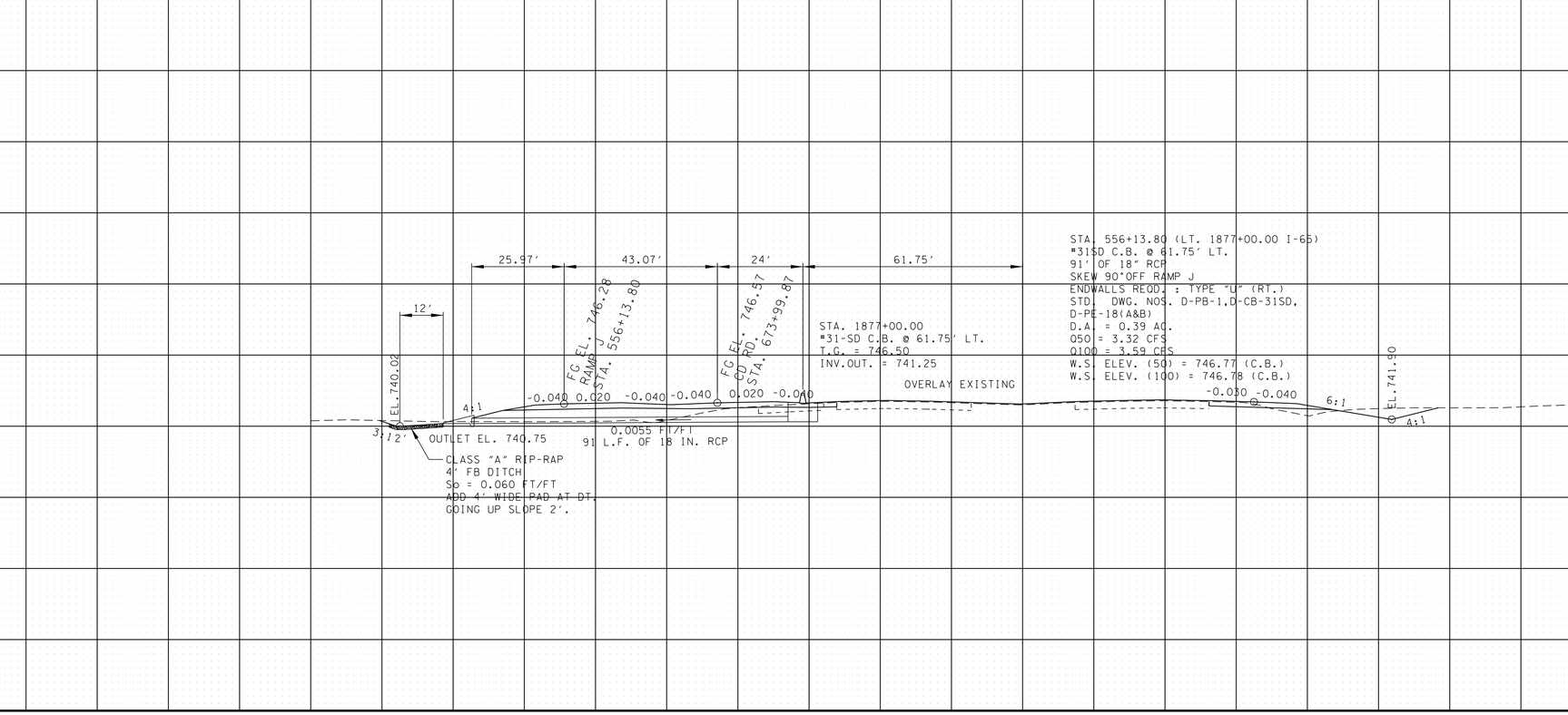
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	34
CONST.	2014	STP/HPP/NH-I-65-3(113)	78

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION





UNOFFICIAL SET
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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1877+00.00
TO
STA.1877+48.66

SCALE: 1"=20' HORIZ.
1"=20' VERT.

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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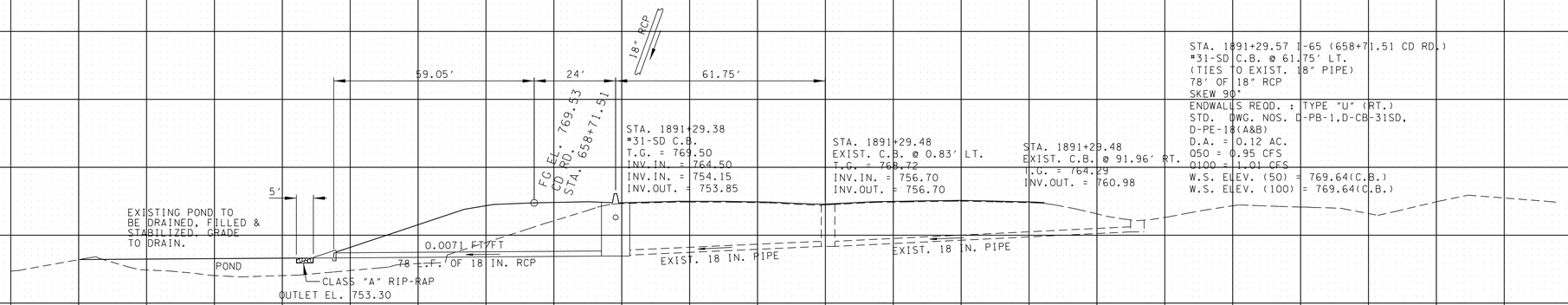
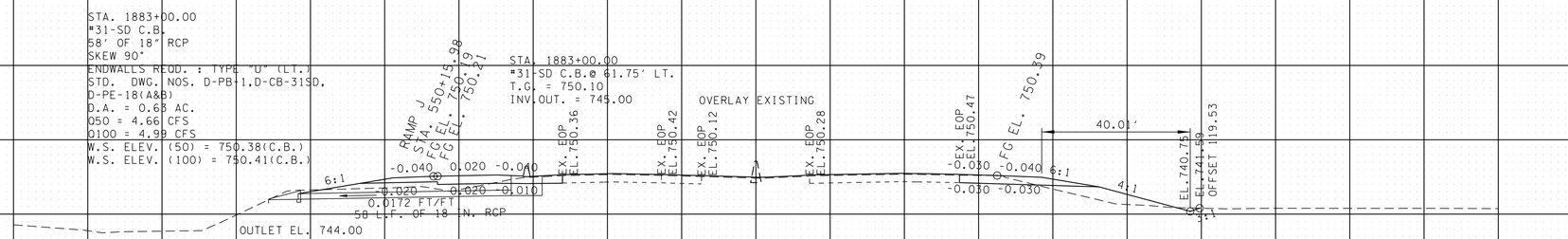
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	35
CONST.	2014	STP/HPP/NH-I-65-3(113)	79

FILE NO.

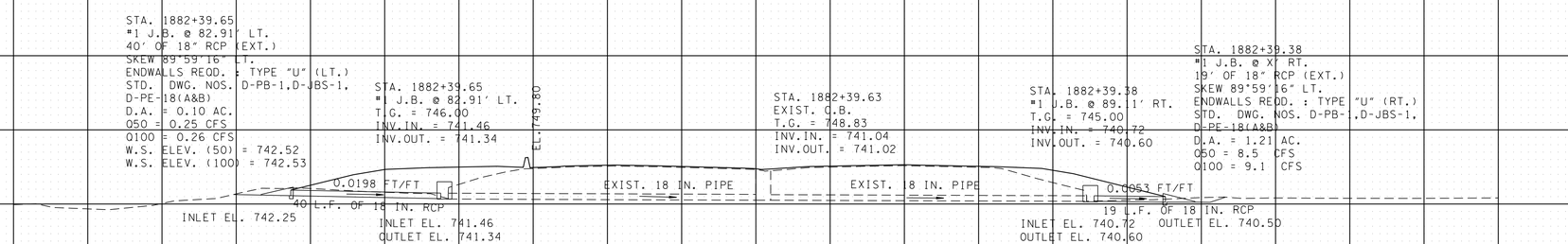
TENNESSEE D.O.T.
DESIGN DIVISION



1891+29.57
I-65



1883+00.00
I-65



1882+39.63
I-65

UNOFFICIAL SET
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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
ONMERCY
No. 107290
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.1882+39.63
TO
STA.1891+29.57

SCALE: 1"=20' HORIZ.
1"=20' VERT.

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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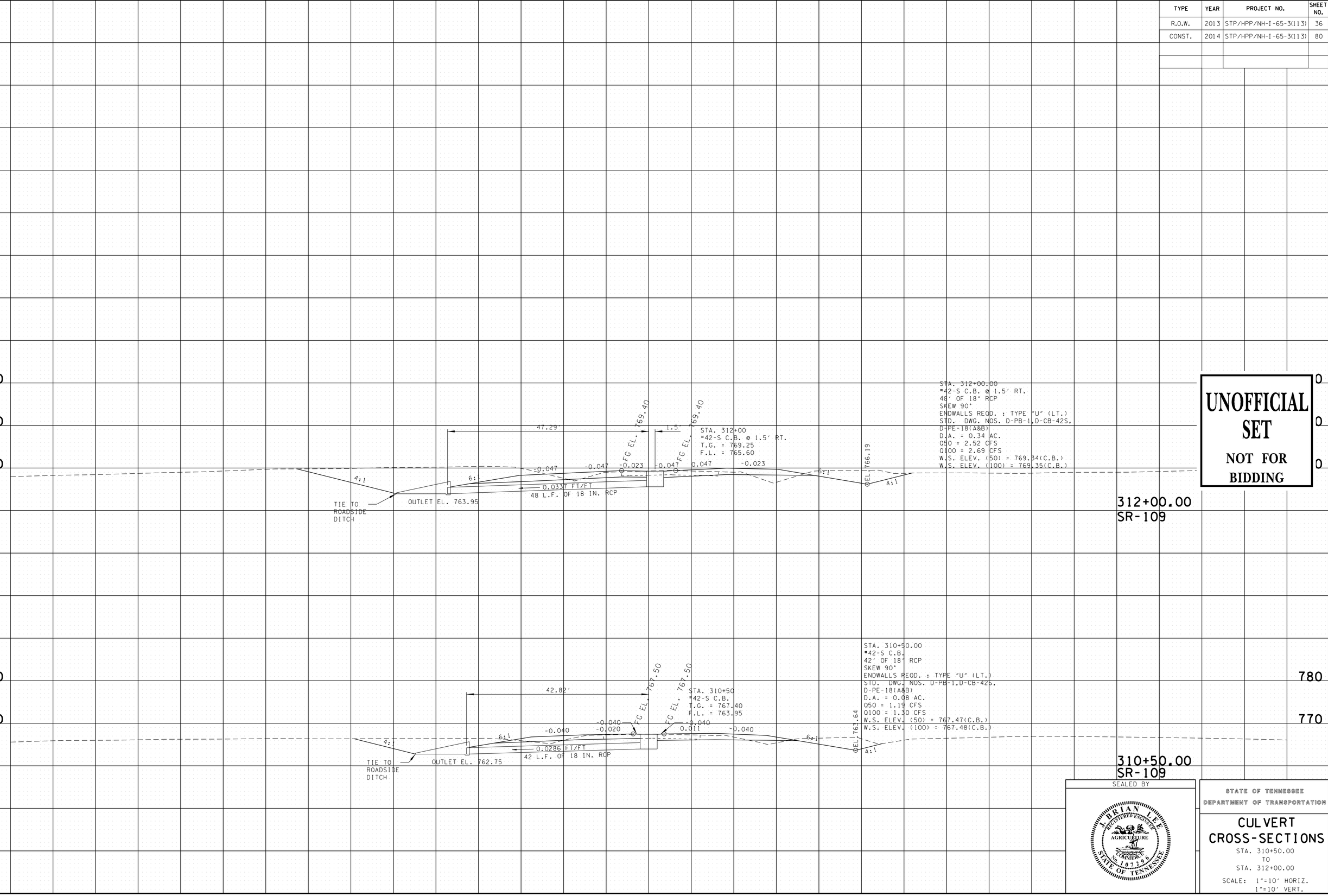
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	36
CONST.	2014	STP/HPP/NH-I-65-3(113)	80



UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 310+50.00
TO
STA. 312+00.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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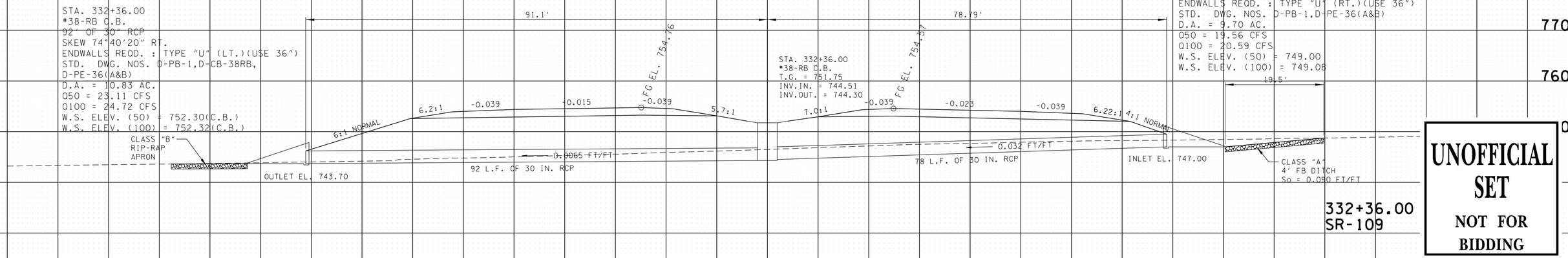
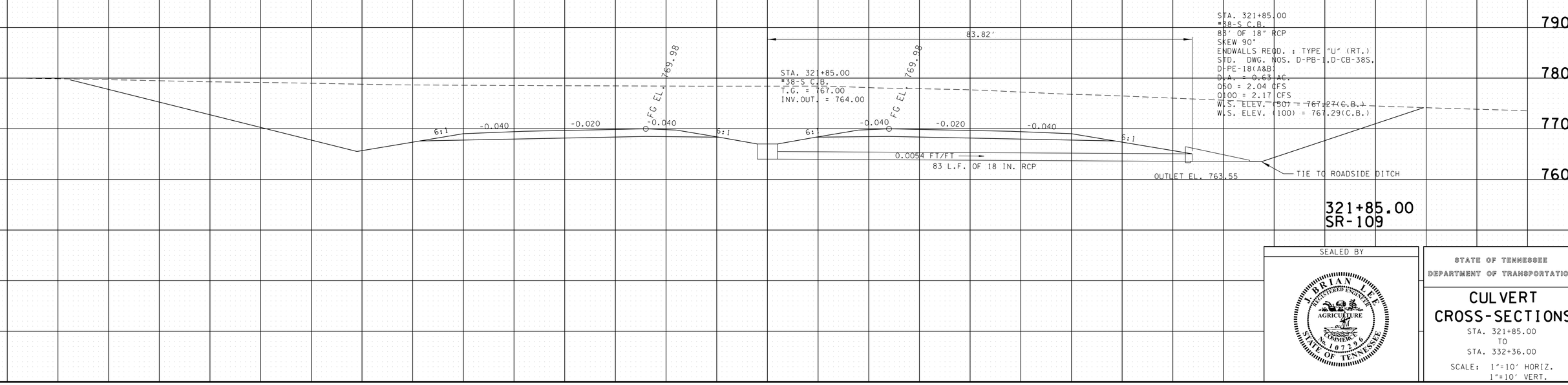
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	37
CONST.	2014	STP/HPP/NH-I-65-3(113)	81

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



332+36.00
SR-109

UNOFFICIAL SET
NOT FOR BIDDING



321+85.00
SR-109

SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 321+85.00
TO
STA. 332+36.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

9/23/2014 9:24:25 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	38
CONST.	2014	STP/HPP/NH-I-65-3(113)	82

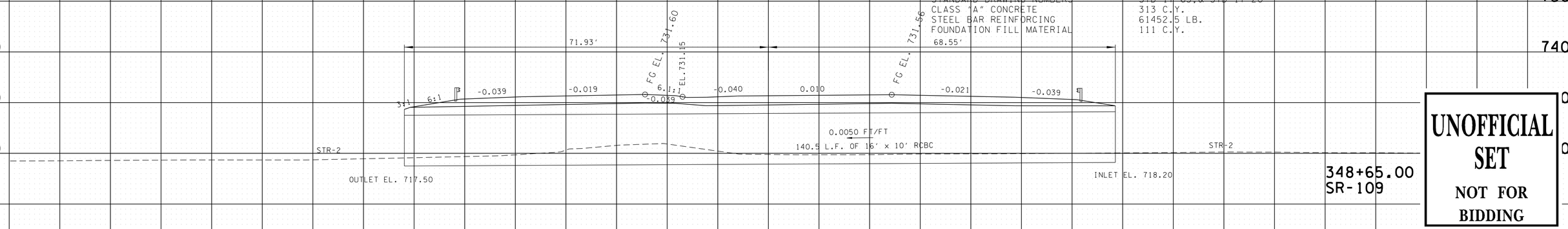
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

STATION 348+65

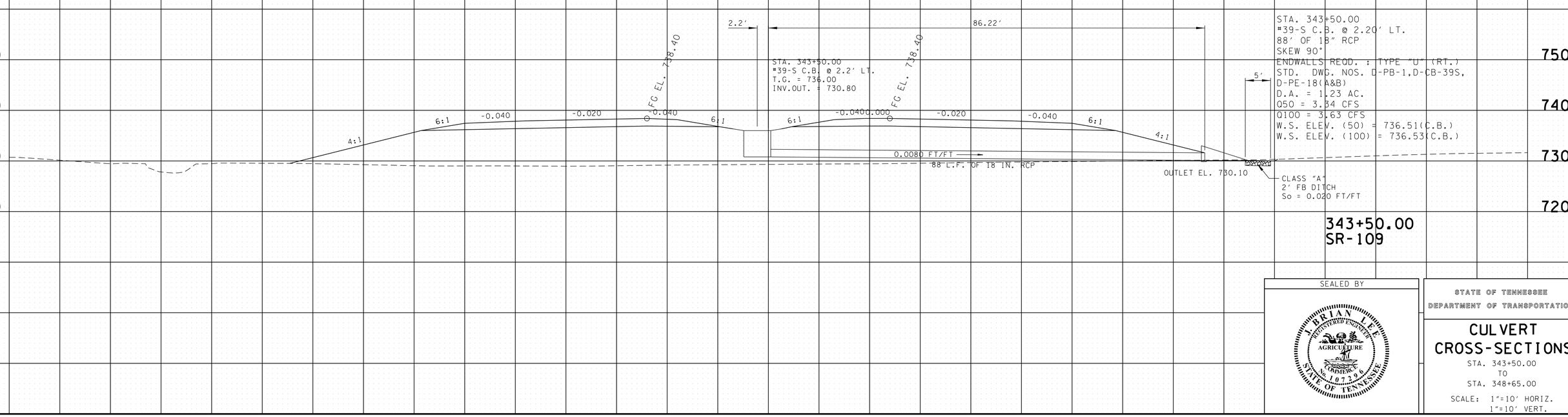
DRAINAGE AREA
DESIGN DISCHARGE (100 YR)
100 YR BACKWATER
100 YR VELOCITY
500 YR DISCHARGE
INLET ELEVATION
OUTLET ELEVATION
APPROACH OVERTOPPING ELEVATION
STANDARD DRAWING NUMBERS
CLASS "A" CONCRETE
STEEL BAR REINFORCING
FOUNDATION FILL MATERIAL

1 @ 16'X 10',75° SKEW CONCRETE BOX CULV.
SKEWED 80° RT. TO CENTERLINE STATION 348+65.00
0.94 SQ. MI.
597 CFS
0 FT AT EL 725.87
5.07 FPS
808 CFS AT EL 727.22
718.20
717.50
731.51
STD-17-63,& STD-17-20
313 C.Y.
61452.5 LB.
111 C.Y.



348+65.00
SR-109

UNOFFICIAL SET
NOT FOR BIDDING



STA. 343+50.00
#39-S C.B. @ 2.20' LT.
88' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" (RT.)
STD. DWG. NOS. D-PB-1,D-CB-39S,
D-PE-18(A&B)
D.A. = 1.23 AC.
Q50 = 3.34 CFS
Q100 = 3.63 CFS
W.S. ELEV. (50) = 736.51(C.B.)
W.S. ELEV. (100) = 736.53(C.B.)

343+50.00
SR-109

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 343+50.00
TO
STA. 348+65.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

9/23/2014 9:24:27 AM
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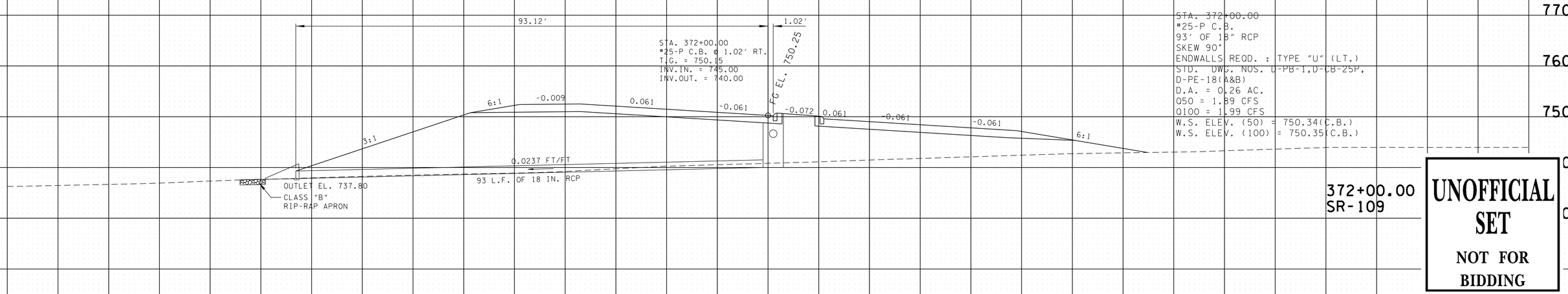
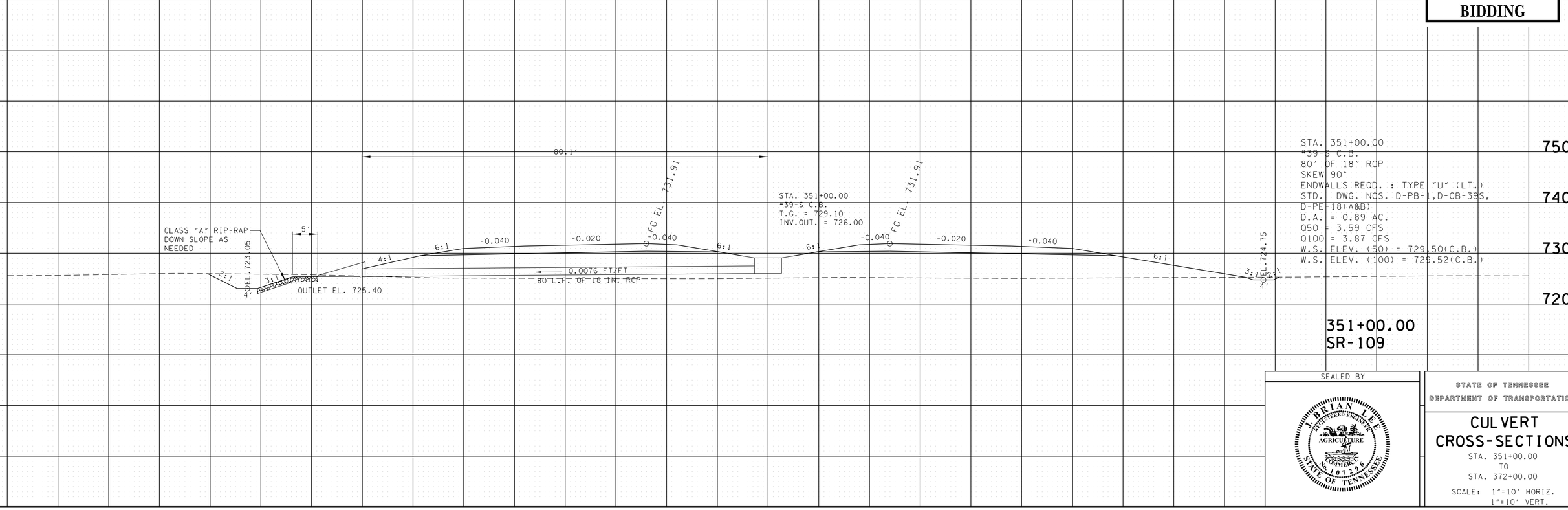
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	39
CONST.	2014	STP/HPP/NH-I-65-3(113)	83

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





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L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 351+00.00
TO
STA. 372+00.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

9/23/2014 9:24:29 AM
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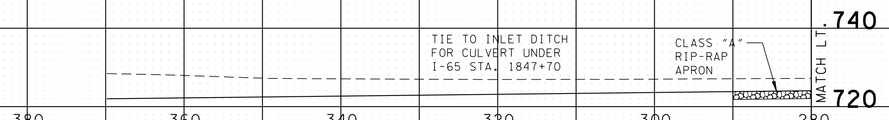
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

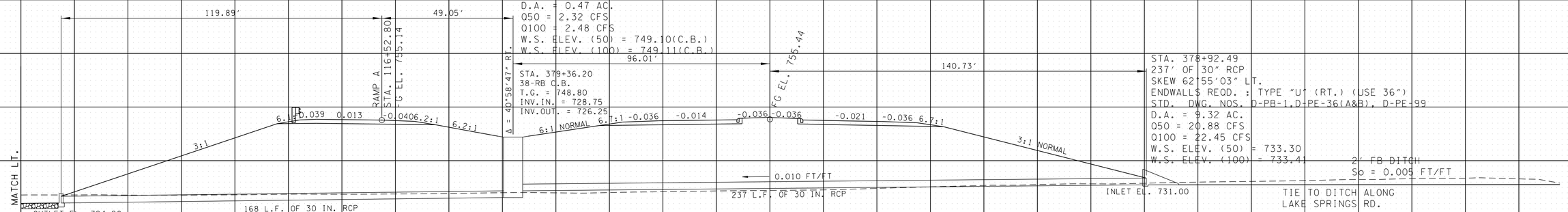
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	40
CONST.	2014	STP/HPP/NH-I-65-3(113)	84



STA. 379+36.20
"38-RB C.B. @ 83.48' LT.
168' OF 30" RCP
ENDWALLS REQD. : TYPE "ST" (LT.)
STD. DWG. NOS. D-PB-1,D-CB-38RB,
D-PE-4
D.A. = 0.47 AC.
Q50 = 2.32 CFS
Q100 = 2.48 CFS
W.S. ELEV. (50) = 749.10(C.B.)
W.S. ELEV. (100) = 749.11(C.B.)

STA. 379+36.20
38-RB C.B.
T.G. = 748.80
INV.IN. = 728.75
INV.OUT. = 726.25

STA. 378+92.49
237' OF 30" RCP
SKEW 62°55'03" LT.
ENDWALLS REQD. : TYPE "U" (RT.) (USE 36")
STD. DWG. NOS. D-PB-1,D-PE-36(A&B), D-PE-99
D.A. = 9.32 AC.
Q50 = 20.88 CFS
Q100 = 22.45 CFS
W.S. ELEV. (50) = 733.30
W.S. ELEV. (100) = 733.41



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378+92.49
SR-109

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CULVERT CROSS-SECTIONS

STA. 378+92.49
TO
STA. 378+92.49

SCALE: 1"=20' HORIZ.
1"=20' VERT.

9/23/2014 9:24:30 AM
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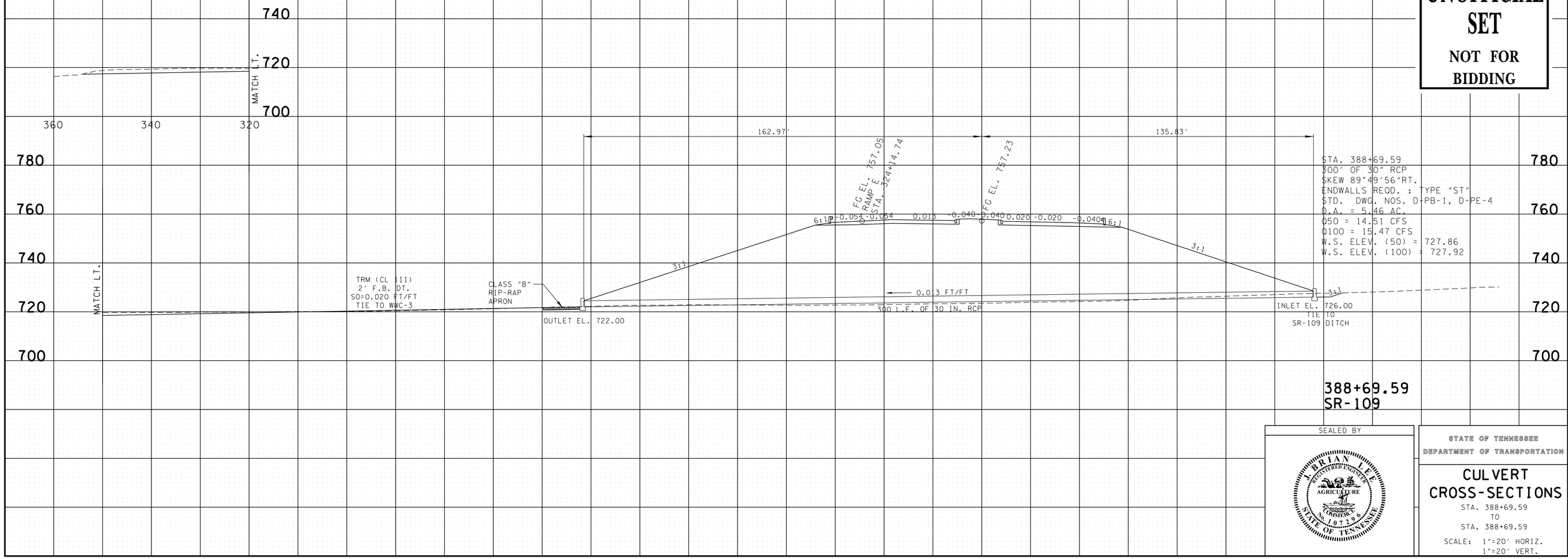
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	41
CONST.	2014	STP/HPP/NH-I-65-3(113)	85

UNOFFICIAL SET

NOT FOR BIDDING



388+69.59
SR-109

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 388+69.59
TO
STA. 388+69.59

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	42
CONST.	2014	STP/HPP/NH-I-65-3(113)	86

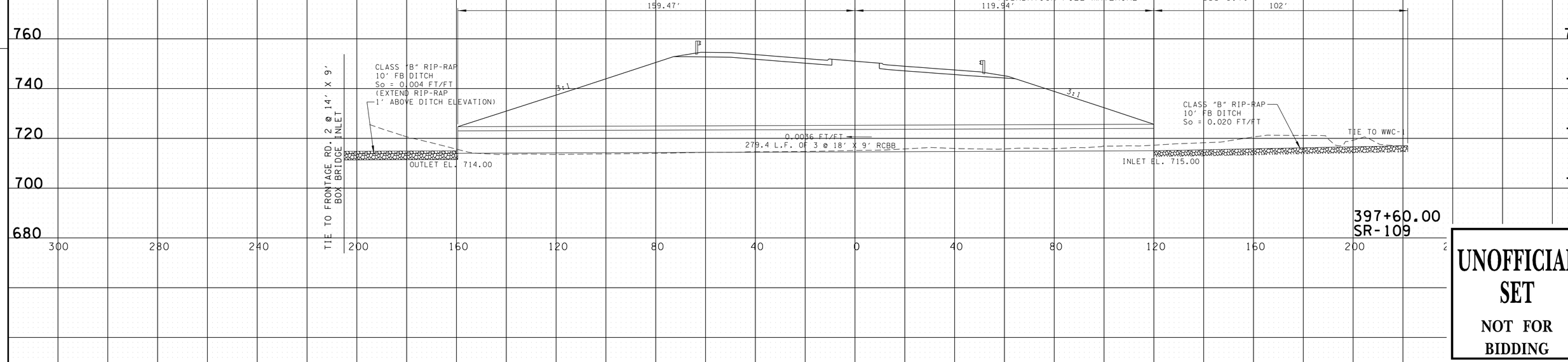
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

STATION 397+60

DRAINAGE AREA	0.75 SQ. MI.
DESIGN DISCHARGE (100 YR)	551 CFS
100 YR BACKWATER	1.89 FT AT EL 722.39
100 YR VELOCITY	2.61 FPS
500 YR DISCHARGE	743 CFS AT EL 722.89
INLET ELEVATION	715.00
OUTLET ELEVATION	714.00
APPROACH OVERTOPPING ELEVATION	747.25
STANDARD DRAWING NUMBERS	STD-17-106
CLASS "A" CONCRETE	3203 C.Y.
STEEL BAR REINFORCING	416810 LB.
FOUNDATION FILL MATERIAL	633 C.Y.

3 @ 18'X 9',75° SKEW CONCRETE BOX BRIDGE
SKEWED 80° RT. TO CENTERLINE STATION 397+60.00



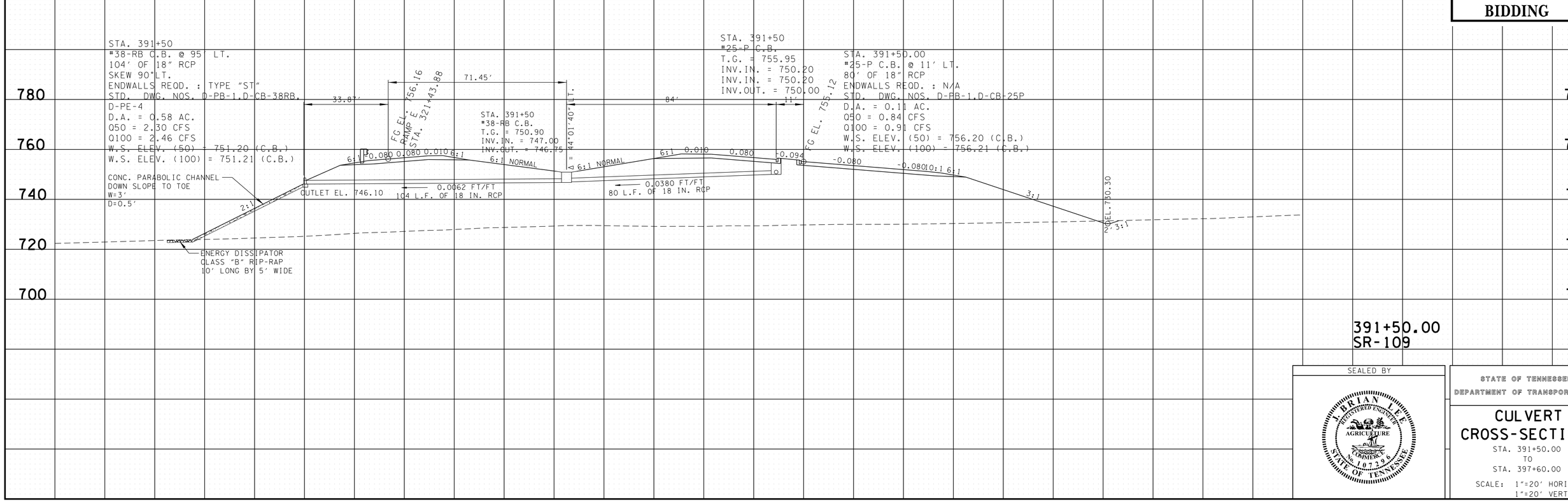
397+60.00
SR-109

UNOFFICIAL SET
NOT FOR BIDDING

STA. 391+50
#38-RB C.B. @ 95° LT.
104' OF 18" RCP
SKEW 90° LT.
ENDWALLS REQD. : TYPE "ST"
STD. DWG. NOS. D-PB-1,D-CB-38RB,
D-PE-4
D.A. = 0.58 AC.
Q50 = 2.30 CFS
Q100 = 2.46 CFS
W.S. ELEV. (50) = 751.20 (C.B.)
W.S. ELEV. (100) = 751.21 (C.B.)

STA. 391+50
#25-P C.B.
T.G. = 755.95
INV.IN. = 750.20
INV.IN. = 750.20
INV.OUT. = 750.00

STA. 391+50.00
#25-P C.B. @ 11° LT.
80' OF 18" RCP
ENDWALLS REQD. : N/A
STD. DWG. NOS. D-RB-1,D-CB-25P
D.A. = 0.11 AC.
Q50 = 0.84 CFS
Q100 = 0.91 CFS
W.S. ELEV. (50) = 756.20 (C.B.)
W.S. ELEV. (100) = 756.21 (C.B.)



391+50.00
SR-109

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NUMBER
STATE OF TENNESSEE

STATE OF TENNESSEE
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CULVERT CROSS-SECTIONS

STA. 391+50.00
TO
STA. 397+60.00

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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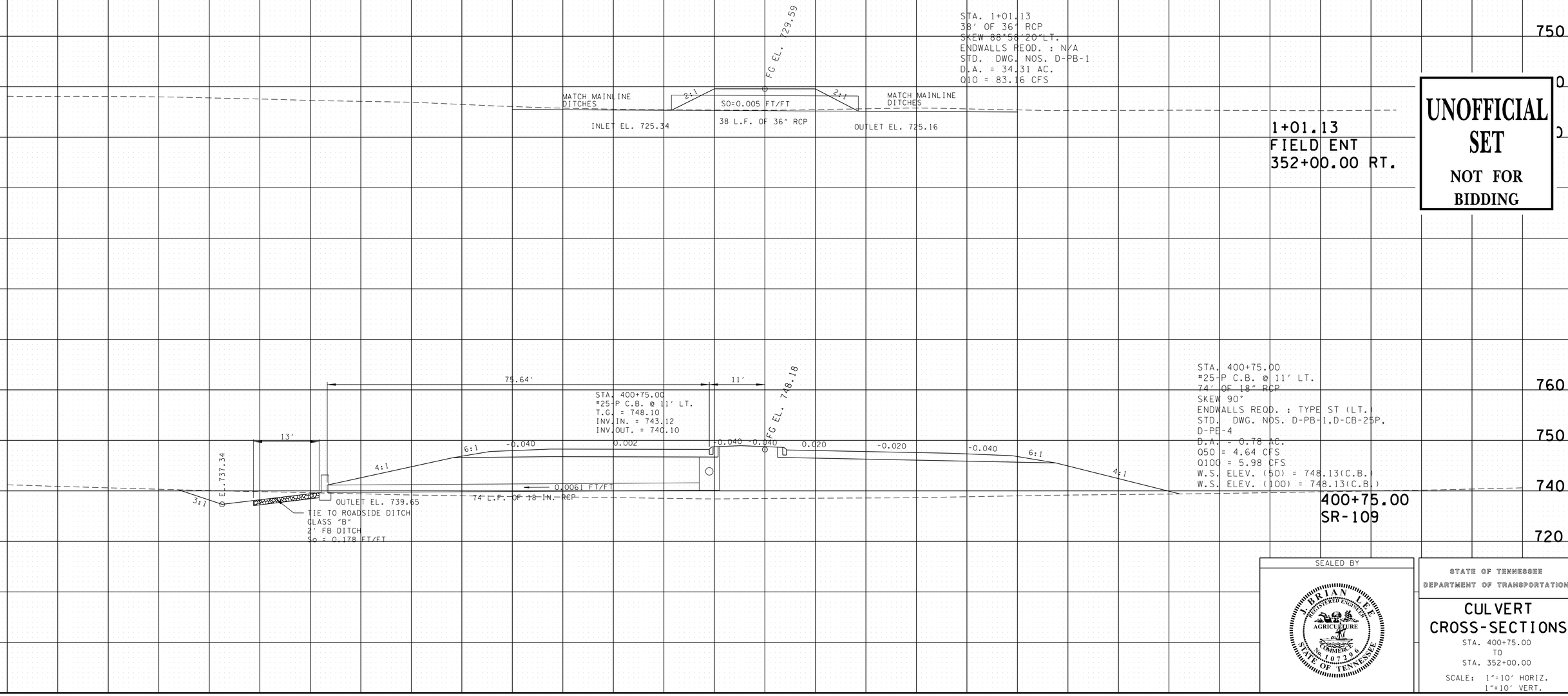
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	43
CONST.	2014	STP/HPP/NH-I-65-3(113)	87



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AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

STA. 400+75.00
TO
STA. 352+00.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

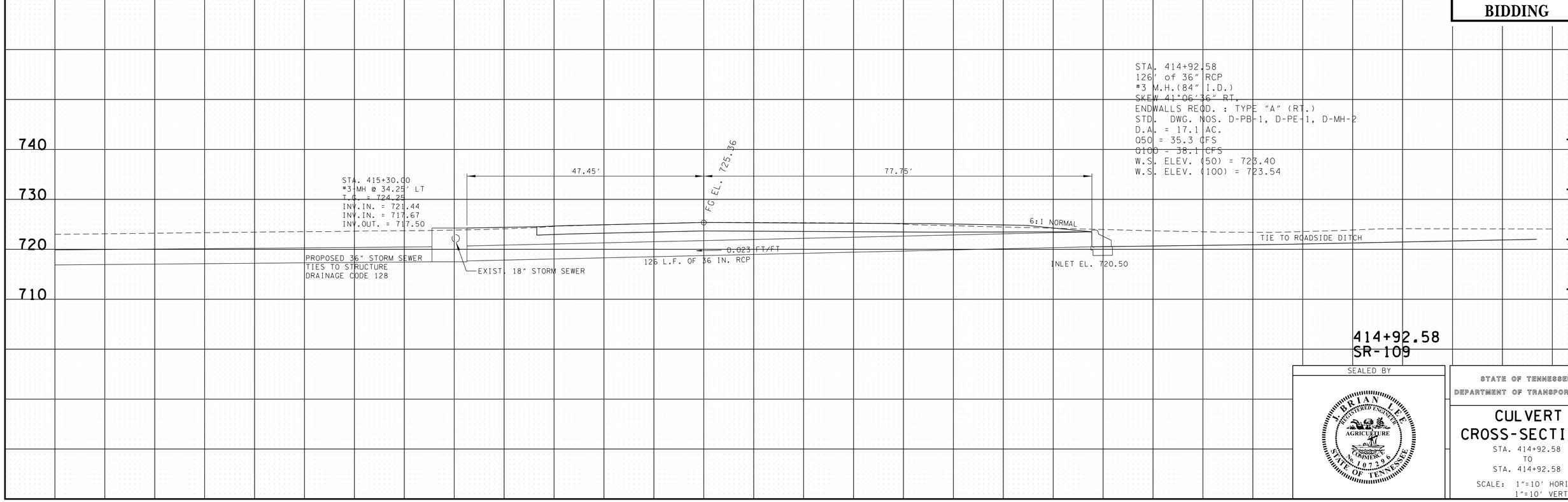
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	44
CONST.	2014	STP/HPP/NH-I-65-3(113)	88

REV. 12-09-13: ADDED CULVERT SECTION STA. 414+92.58. REMOVED CULVERT SECTION STA. 413+00.00.

UNOFFICIAL SET

NOT FOR BIDDING

STA. 414+92.58
126' of 36" RCP
#3 M.H.(84" I.D.)
SKEW 41°06'36" RT.
ENDWALLS REQD. : TYPE "A" (RT.)
STD. DWG. NOS. D-PB-1, D-PE-1, D-MH-2
D.A. = 17.1 AC.
Q50 = 35.3 CFS
Q100 = 38.1 CFS
W.S. ELEV. (50) = 723.40
W.S. ELEV. (100) = 723.54



414+92.58
SR-109

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CULVERT CROSS-SECTIONS

STA. 414+92.58
TO
STA. 414+92.58

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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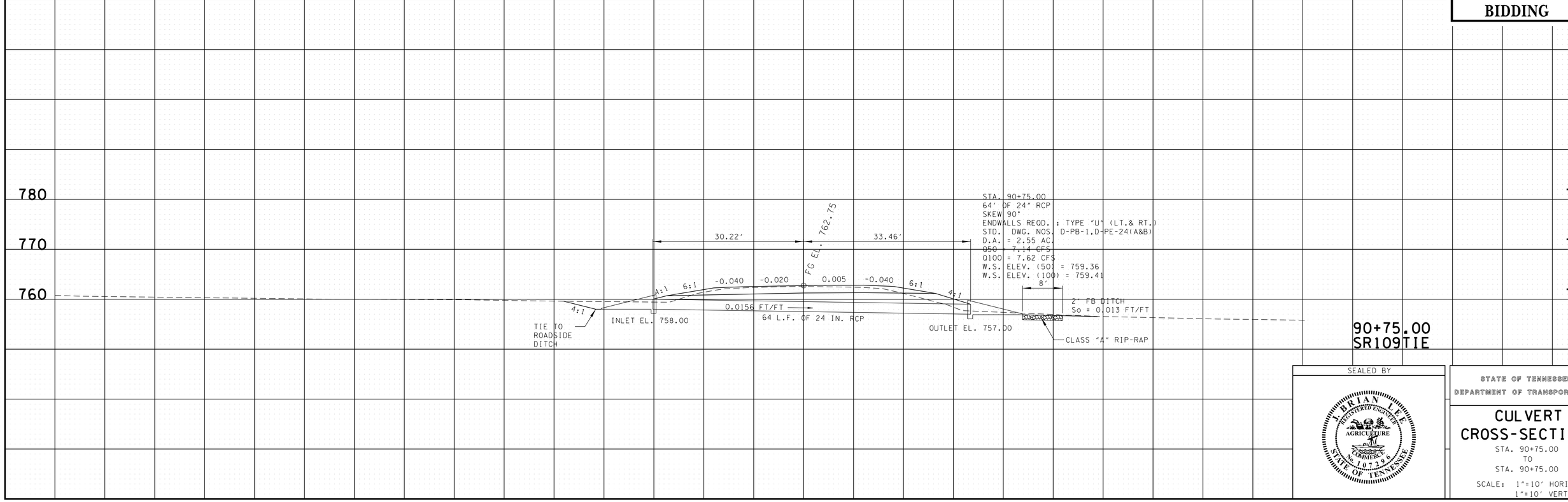
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	45
CONST.	2014	STP/HPP/NH-I-65-3(113)	89

UNOFFICIAL SET

NOT FOR BIDDING



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SUMMER
No. 107390
STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

STA. 90+75.00
TO
STA. 90+75.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

9/22/2014 8:20:18 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	46
CONST.	2014	STP/HPP/NH-I-65-3(113)	90

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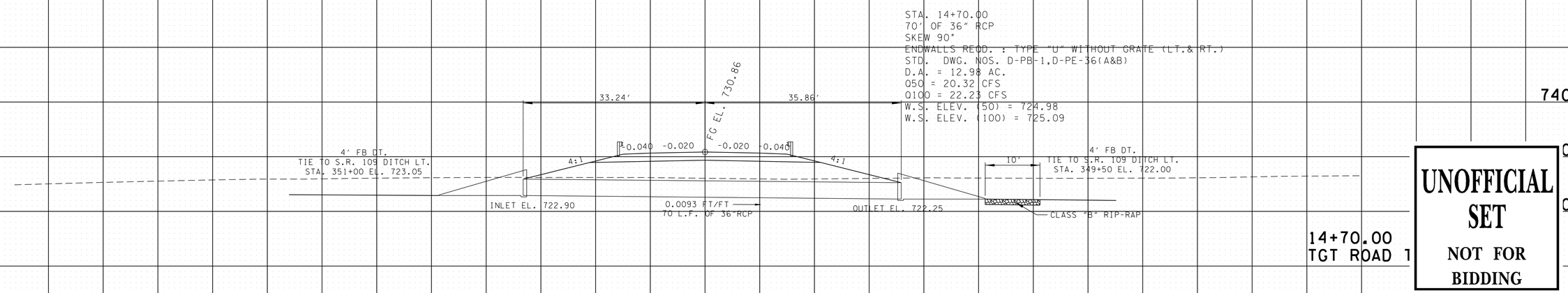
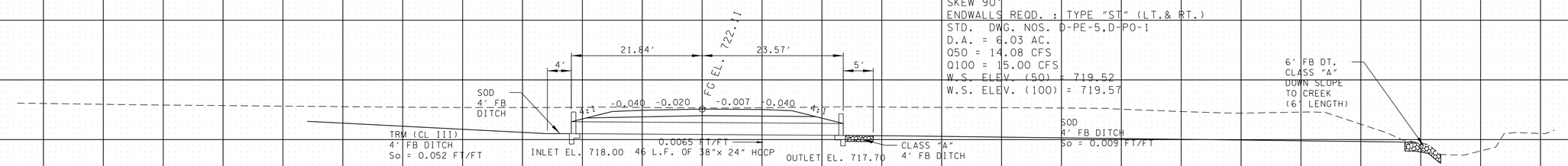
DESIGN DIVISION
FILE NO.



STA. 14+70.00
70' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "U" WITHOUT GRATE (LT.& RT.)
STD. DWG. NOS. D-PB-1,D-PE-36(A&B)
D.A. = 12.98 AC.
Q50 = 20.32 CFS
Q100 = 22.23 CFS
W.S. ELEV. (50) = 724.98
W.S. ELEV. (100) = 725.09

14+70.00
TGT ROAD TIE



STA. 10+60.00
46' OF 38"x 24" HOCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.& RT.)
STD. DWG. NOS. D-PE-5,D-PO-1
D.A. = 6.03 AC.
Q50 = 14.08 CFS
Q100 = 15.00 CFS
W.S. ELEV. (50) = 719.52
W.S. ELEV. (100) = 719.57

10+60.00
TGT ROAD TIE

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CULVERT CROSS-SECTIONS

STA. 10+60.00
TO
STA. 14+70.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	47
CONST.	2014	STP/HPP/NH-I-65-3(113)	91

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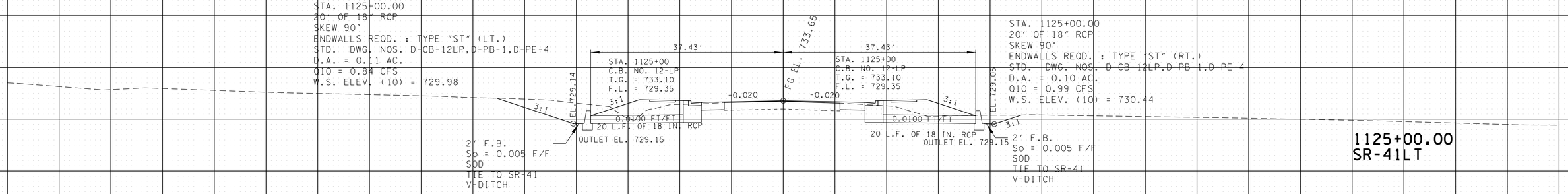
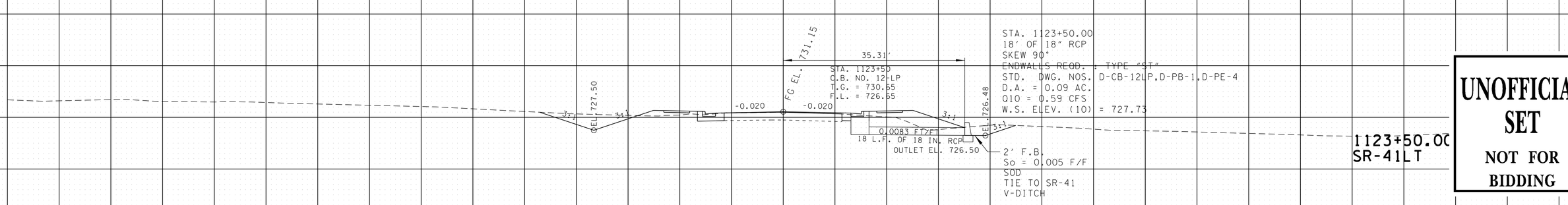
DESIGN DIVISION

FILE NO.





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STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

STA. 1123+22.00
TO
STA. 1125+00.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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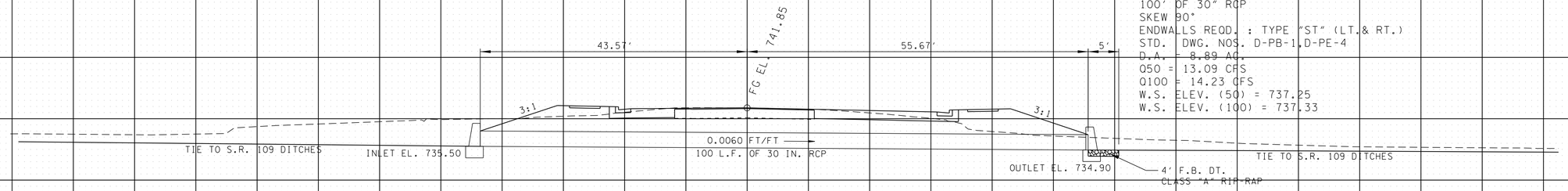
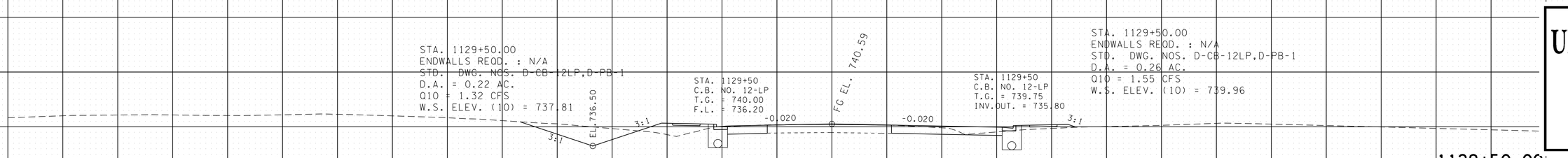
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	48
CONST.	2014	STP/HPP/NH-I-65-3(113)	92

FILE NO.

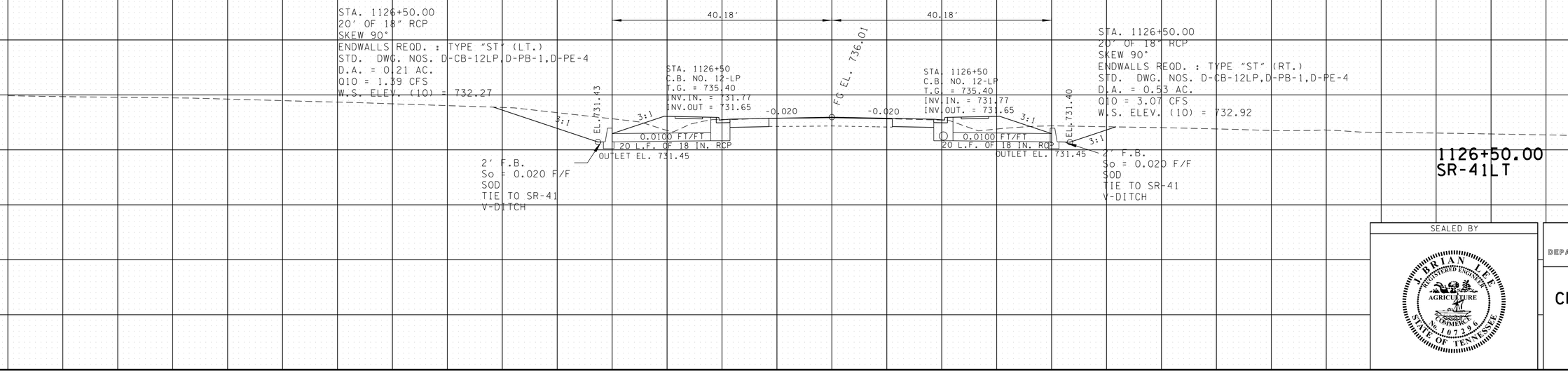
TENNESSEE D.O.T.
DESIGN DIVISION



1131+25.00
SR-41LT



1129+50.00
SR-41LT



1126+50.00
SR-41LT

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COMMERCE
No. 107396
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CULVERT CROSS-SECTIONS

STA. 1126+50.00
TO
STA. 1131+25.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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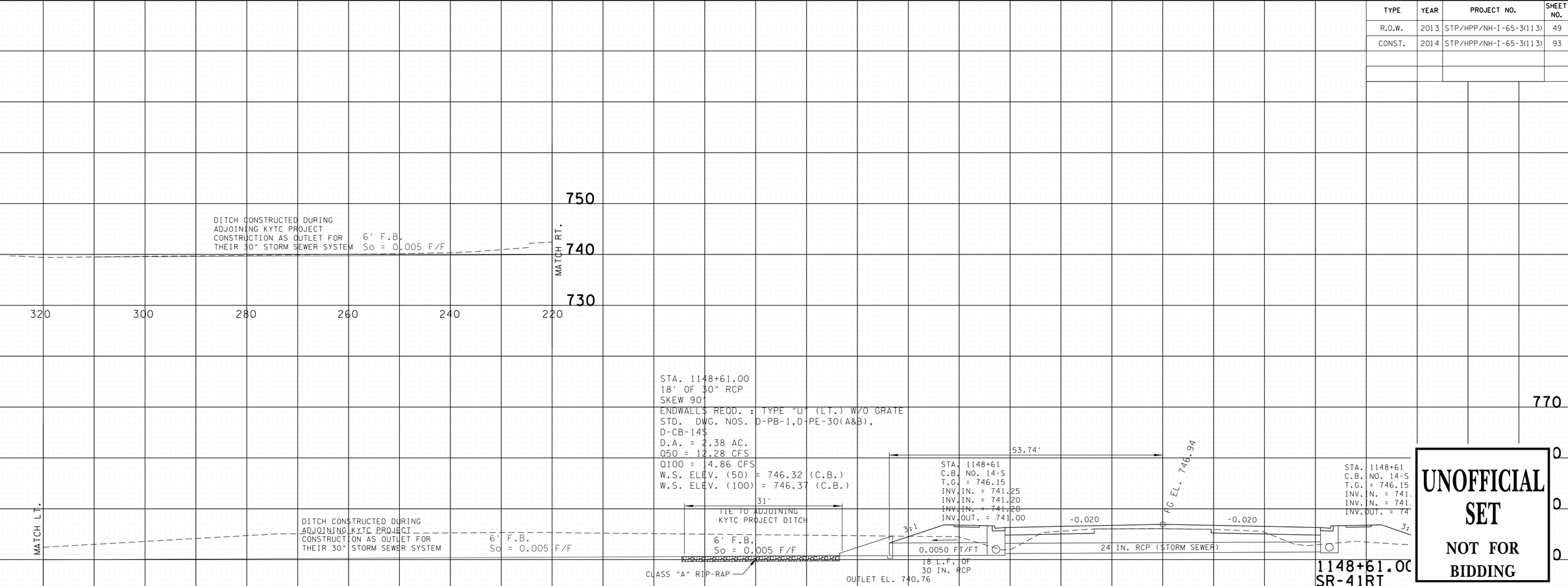
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	49
CONST.	2014	STP/HPP/NH-I-65-3(113)	93

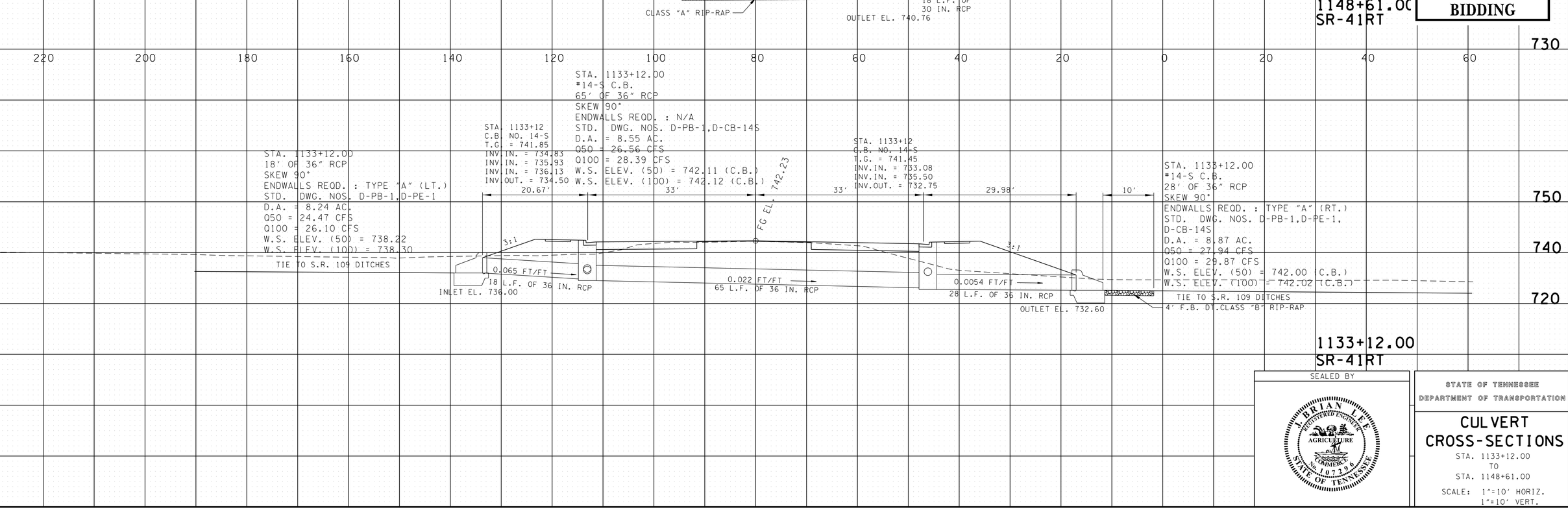
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1148+61.00
SR-41RT

UNOFFICIAL SET
NOT FOR BIDDING



1133+12.00
SR-41RT

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CULVERT CROSS-SECTIONS

STA. 1133+12.00
TO
STA. 1148+61.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION

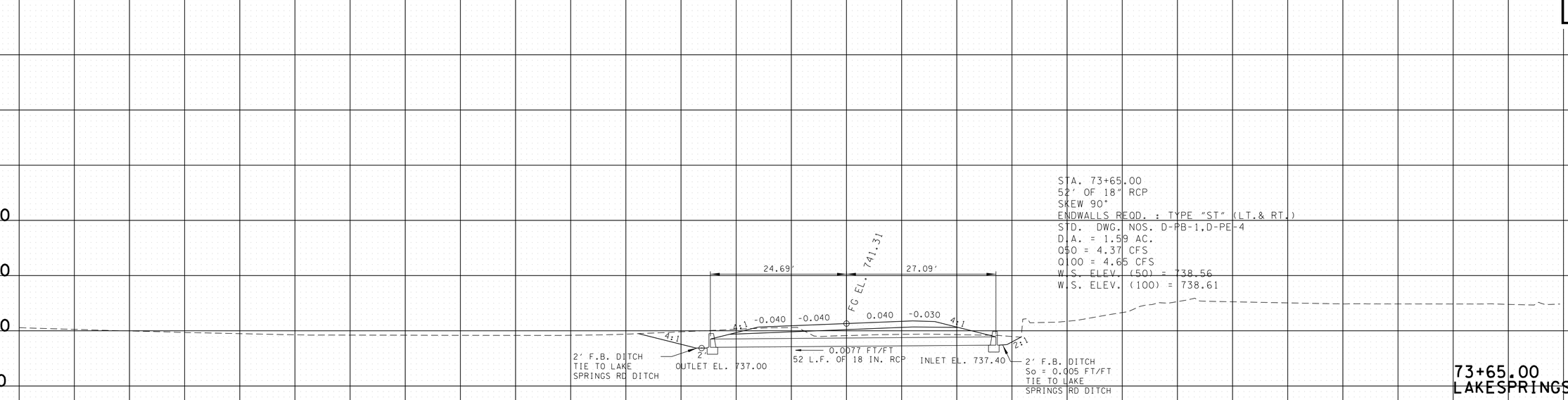
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	50
CONST.	2014	STP/HPP/NH-I-65-3(113)	94

UNOFFICIAL SET

NOT FOR BIDDING

STA. 73+65.00
52' OF 18" RCP
SKEW 90°
ENDWALLS REQD. : TYPE "ST" (LT.& RT.)
STD. DWG. NOS. D-PB-1,D-PE-4
D.A. = 1.59 AC.
Q50 = 4.37 CFS
Q100 = 4.65 CFS
W.S. ELEV. (50) = 738.56
W.S. ELEV. (100) = 738.61



73+65.00
LAKESPRINGS

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AGRICULTURE
SUMMER
No. 107396
STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

STA. 73+65.00
TO
STA. 73+65.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

9/22/2014 8:20:27 PM
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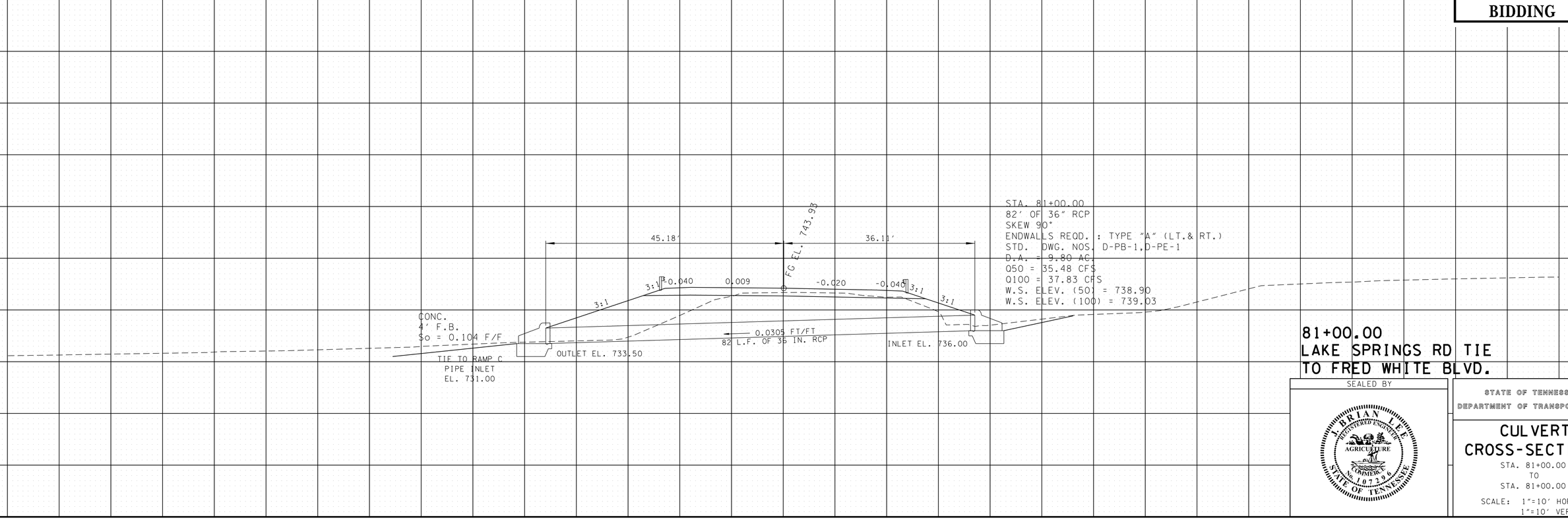
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	51
CONST.	2014	STP/HPP/NH-I-65-3(113)	95

UNOFFICIAL SET

NOT FOR BIDDING



81+00.00 LAKE SPRINGS RD TIE TO FRED WHITE BLVD.

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NUMBER
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CULVERT CROSS-SECTIONS

STA. 81+00.00
TO
STA. 81+00.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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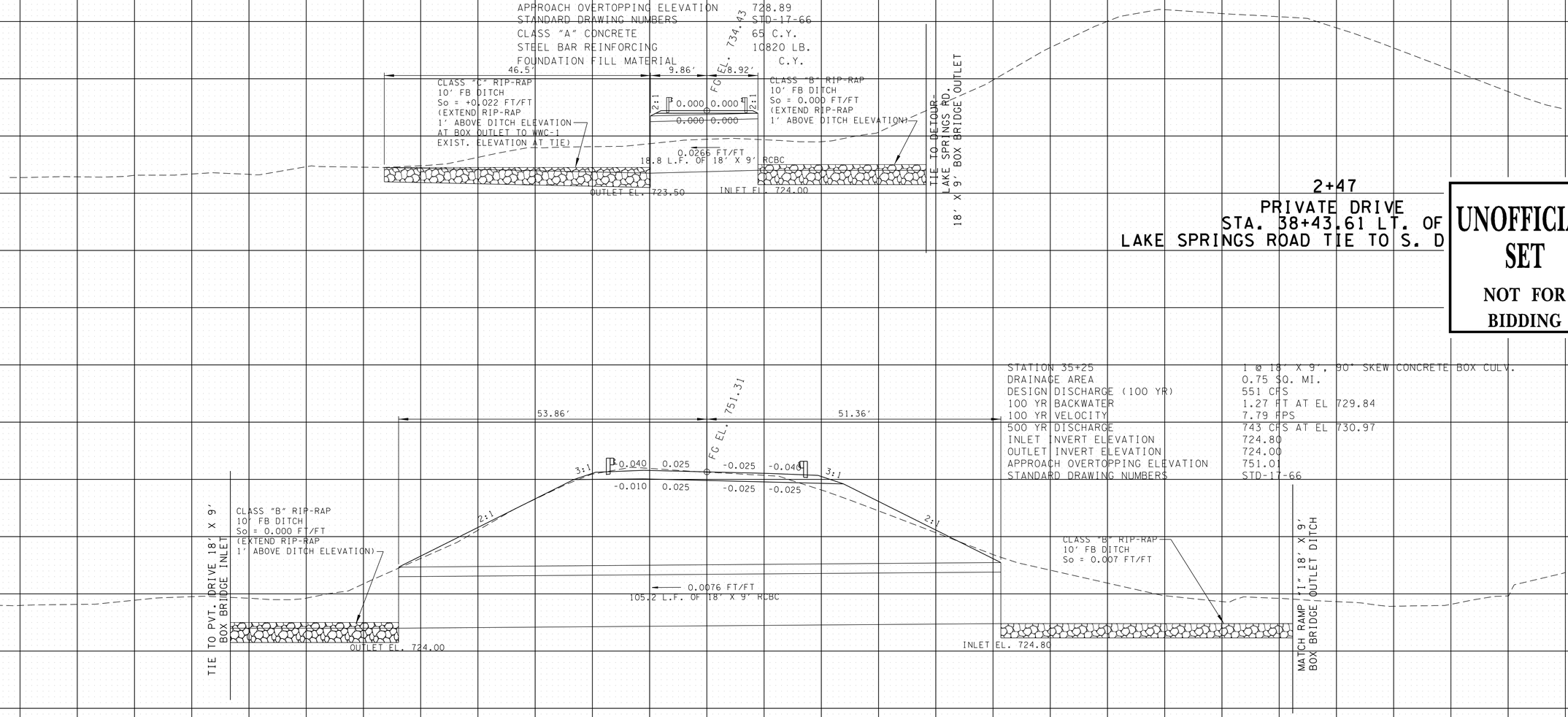
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	51A
CONST.	2014	STP/HPP/NH-I-65-3(113)	96

REV. 4-02-14: ADDED 12' X 6' RCBC STA. 33+04.66 - 91.45 LT. LAKE SPRINGS ROAD TIE TO S. DETOUR RD.

STATION 2+47	1 @ 18' X 9', 90° SKEW CONCRETE BOX CULV.
DRAINAGE AREA	0.75 SQ. MI.
DESIGN DISCHARGE (100 YR)	551 CFS
100 YR BACKWATER	1.68 FT AT EL 728.79
100 YR VELOCITY	9.95 FPS
500 YR DISCHARGE	743 CFS AT EL 729.71
INLET INVERT ELEVATION	724.00
OUTLET INVERT ELEVATION	723.50
APPROACH OVERTOPPING ELEVATION	728.89
STANDARD DRAWING NUMBERS	STD-17-66
CLASS "A" CONCRETE	65 C.Y.
STEEL BAR REINFORCING	10820 LB.
FOUNDATION FILL MATERIAL	C.Y.



2+47
PRIVATE DRIVE
STA. 38+43.61 LT. OF
LAKE SPRINGS ROAD TIE TO S. D

UNOFFICIAL SET
NOT FOR BIDDING

STATION 35+25	1 @ 18' X 9', 90° SKEW CONCRETE BOX CULV.
DRAINAGE AREA	0.75 SQ. MI.
DESIGN DISCHARGE (100 YR)	551 CFS
100 YR BACKWATER	1.27 FT AT EL 729.84
100 YR VELOCITY	7.79 FPS
500 YR DISCHARGE	743 CFS AT EL 730.97
INLET INVERT ELEVATION	724.80
OUTLET INVERT ELEVATION	724.00
APPROACH OVERTOPPING ELEVATION	751.01
STANDARD DRAWING NUMBERS	STD-17-66

35+25.00
LAKE SPRINGS RD TIE TO S. OLD DETOUR RD

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AGRICULTURE
NUMBER
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STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

STA. 35+21.00
TO
STA. 2+47.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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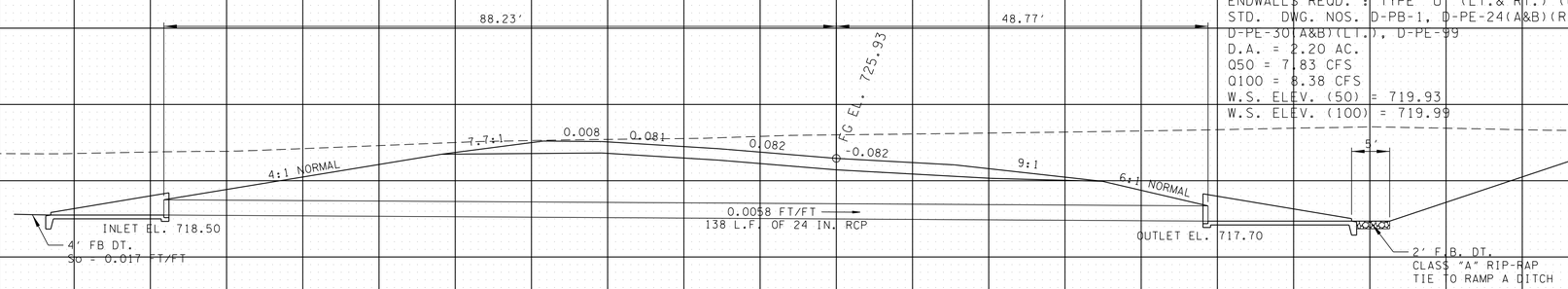
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	52
CONST.	2014	STP/HPP/NH-I-65-3(113)	97

UNOFFICIAL SET

NOT FOR BIDDING



STA. 109+81.65
138' OF 24" RCP
SKEW 50° 48' 46" (TAN. TO CURVE)
ENDWALLS REQD. : TYPE "U" (LT.& RT.) (USE 30" LT.)
STD. DWG. NOS. D-PB-1, D-PE-24(A&B)(RT.), D-PE-30(A&B)(LT.), D-PE-99
D.A. = 2.20 AC.
Q50 = 7.83 CFS
Q100 = 8.38 CFS
W.S. ELEV. (50) = 719.93
W.S. ELEV. (100) = 719.99

109+81.65
RAMP A

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CULVERT CROSS-SECTIONS

STA. 109+91.65
TO
STA. 109+91.65

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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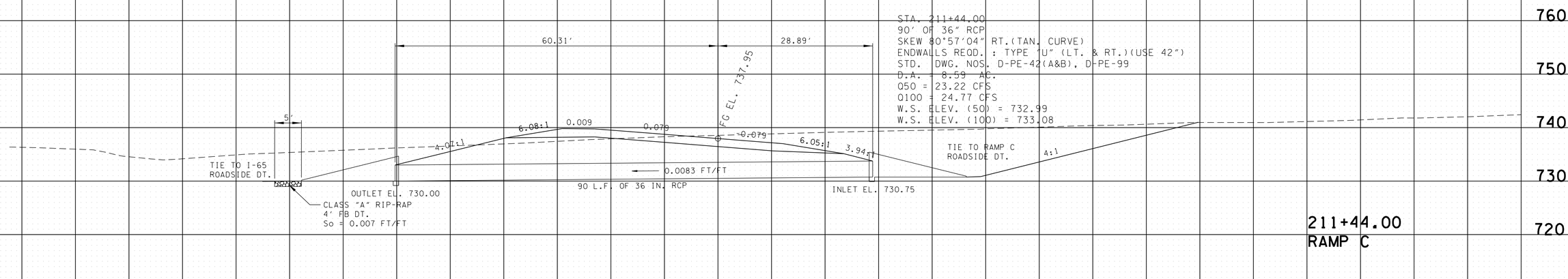
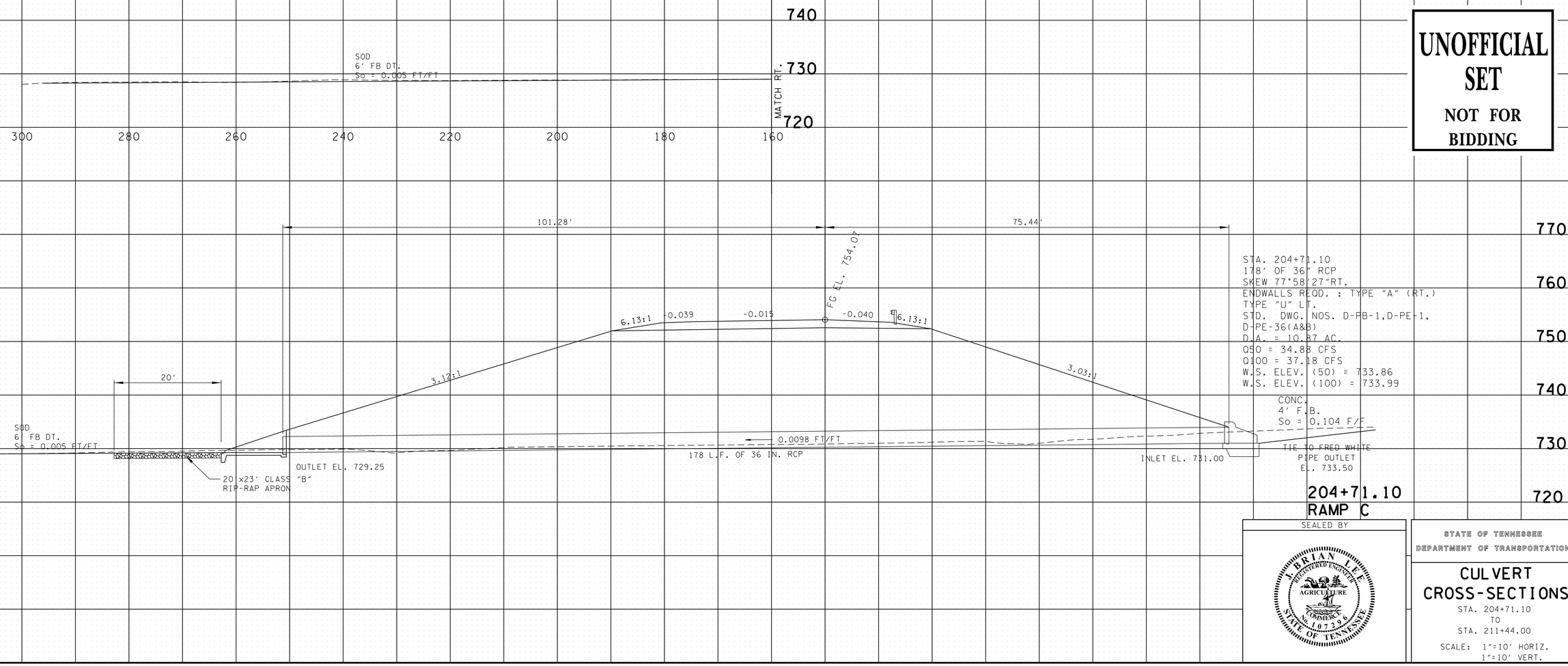
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	53
CONST.	2014	STP/HPP/NH-I-65-3(113)	98

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





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SUMMER
No. 107296
STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

STA. 204+71.10
TO
STA. 211+44.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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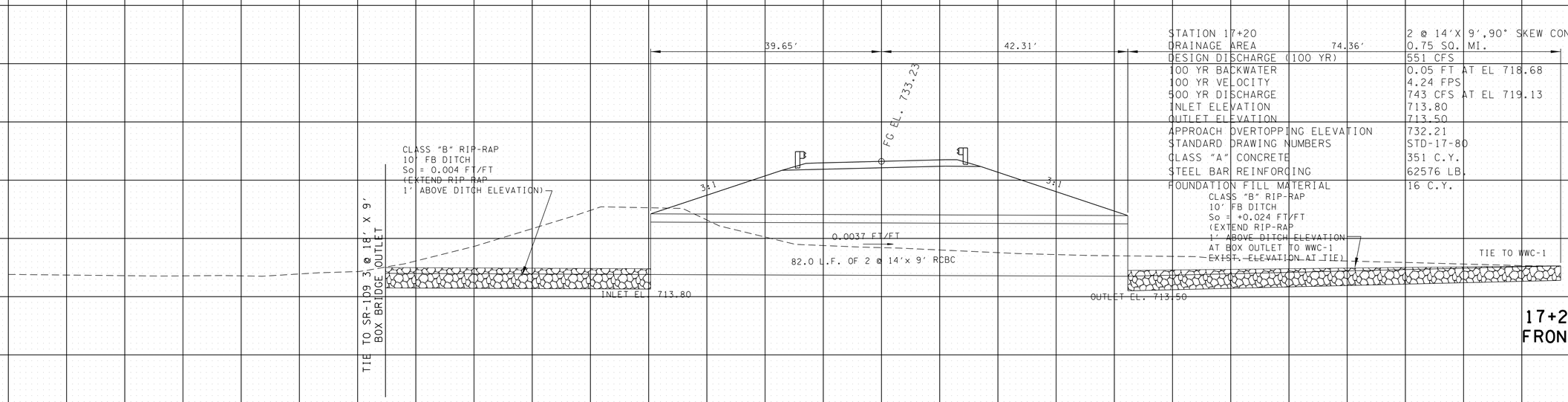
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	55
CONST.	2014	STP/HPP/NH-I-65-3(113)	99

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



STATION	17+20
DRAINAGE AREA	2 @ 14'X 9',90° SKEW CONCRETE BOX CULV.
DESIGN DISCHARGE (100 YR)	0.75 SQ. MI.
100 YR BACKWATER	551 CFS
100 YR VELOCITY	0.05 FT AT EL 718.68
500 YR DISCHARGE	4.24 FPS
INLET ELEVATION	743 CFS AT EL 719.13
OUTLET ELEVATION	713.80
APPROACH OVERTOPPING ELEVATION	713.50
STANDARD DRAWING NUMBERS	732.21
CLASS "A" CONCRETE	STD-17-80
STEEL BAR REINFORCING	351 C.Y.
FOUNDATION FILL MATERIAL	62576 LB.
	16 C.Y.

17+20.00
FRONTAGE ROAD

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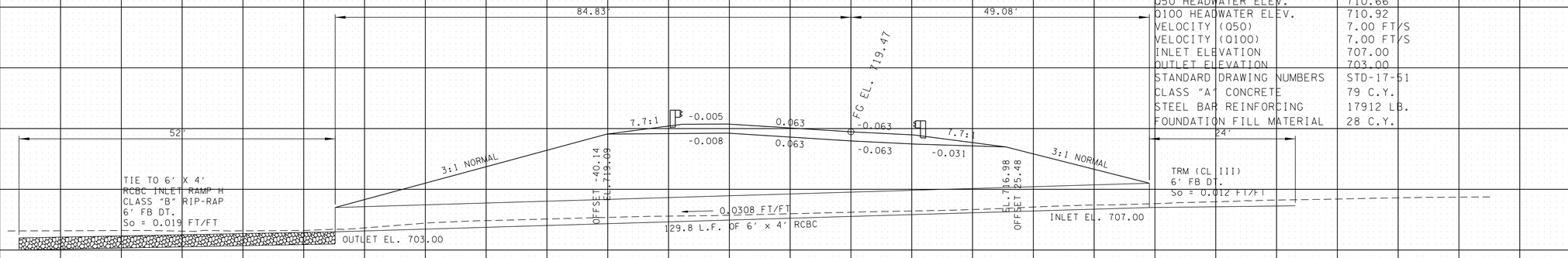

STATION	307+06.56
STRUCTURE	129.8' OF 6' X 4' BOX CULV.
SKEW	50°51'25" SK.LT. (TAN.CURVE)
DRAINAGE AREA	73.76 AC.
DESIGN DISCHARGE (Q50)	122.89 CFS
DESIGN DISCHARGE (Q100)	134.59 CFS
OVERTOPPING ELEV.	719.54
ALLOWABLE HEADWATER ELEV.	717.54
Q50 HEADWATER ELEV.	710.66
Q100 HEADWATER ELEV.	710.92
VELOCITY (Q50)	7.00 FT/S
VELOCITY (Q100)	7.00 FT/S
INLET ELEVATION	707.00
OUTLET ELEVATION	703.00
STANDARD DRAWING NUMBERS	STD-17-51
CLASS "A" CONCRETE	79 C.Y.
STEEL BAR REINFORCING	17912 LB.
FOUNDATION FILL MATERIAL	28 C.Y.

307+06.56
RAMP E

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107209
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 307+06.56
AND
STA. 17+20.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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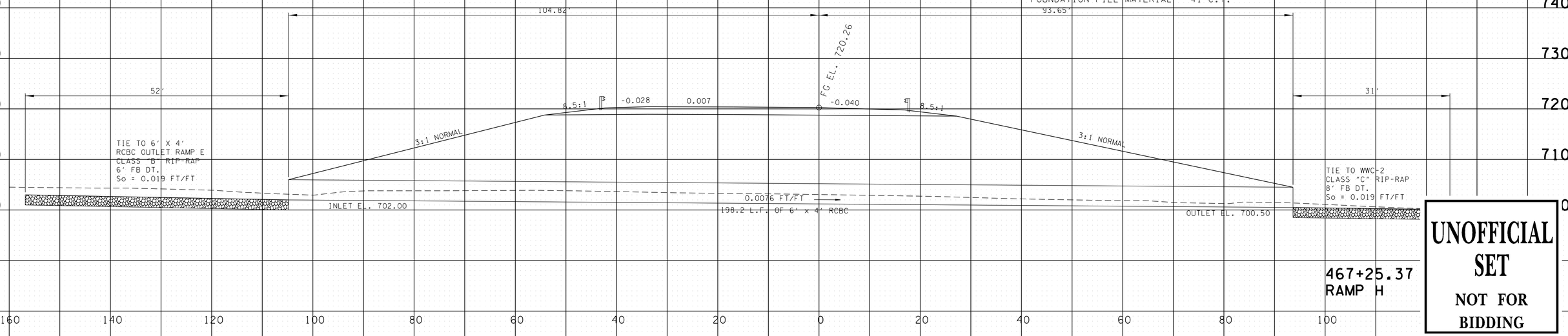
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	56
CONST.	2014	STP/HPP/NH-I-65-3(113)	100

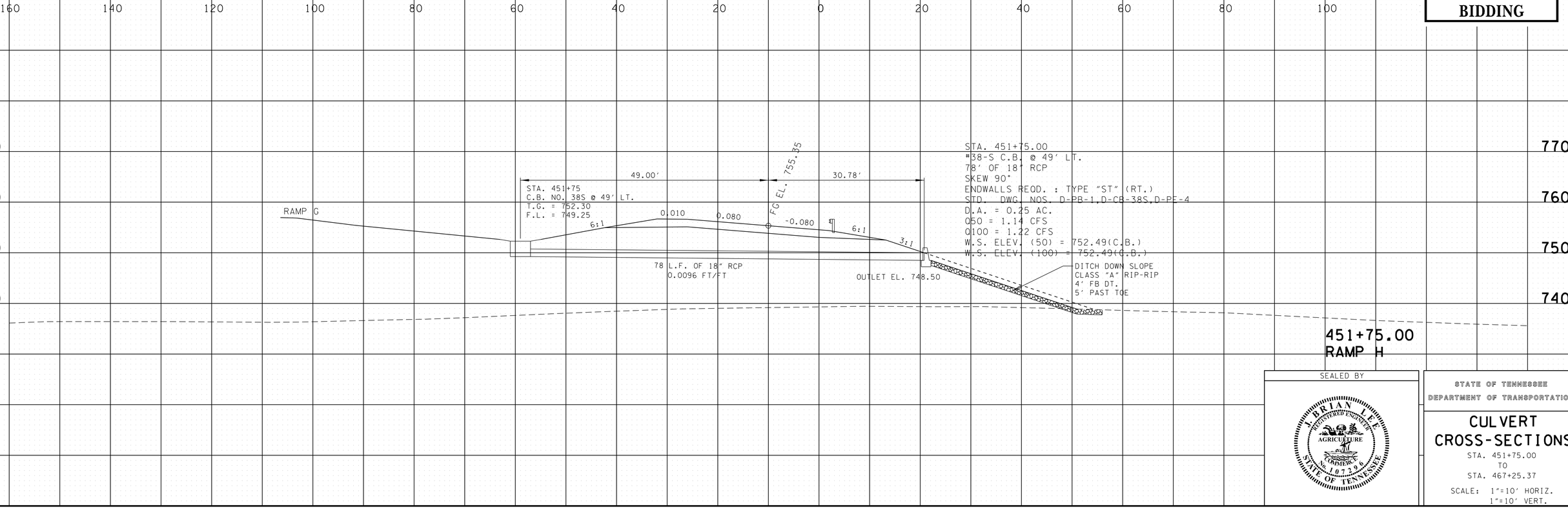
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

STATION	467+25.37
STRUCTURE	198.2' OF 6'X 4' BOX CULV.
SKEW	45°SK. LT.
DRAINAGE AREA	80.81 AC.
DESIGN DISCHARGE (Q50)	134.05 CFS
DESIGN DISCHARGE (Q100)	146.91 CFS
OVERTOPPING ELEV.	719.81
ALLOWABLE HEADWATER ELEV.	717.83
Q50 HEADWATER ELEV.	705.91
Q100 HEADWATER ELEV.	706.19
VELOCITY (Q50)	11.2 FT/S
VELOCITY (Q100)	11.5 FT/S
INLET ELEVATION	702.00
OUTLET ELEVATION	700.50
STANDARD DRAWING NUMBERS	STD-17-51
CLASS "A" CONCRETE	121 C.Y.
STEEL BAR REINFORCING	30126 LB.
FOUNDATION FILL MATERIAL	41 C.Y.



467+25.37
RAMP H



451+75.00
RAMP H

UNOFFICIAL SET
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SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 451+75.00
TO
STA. 467+25.37

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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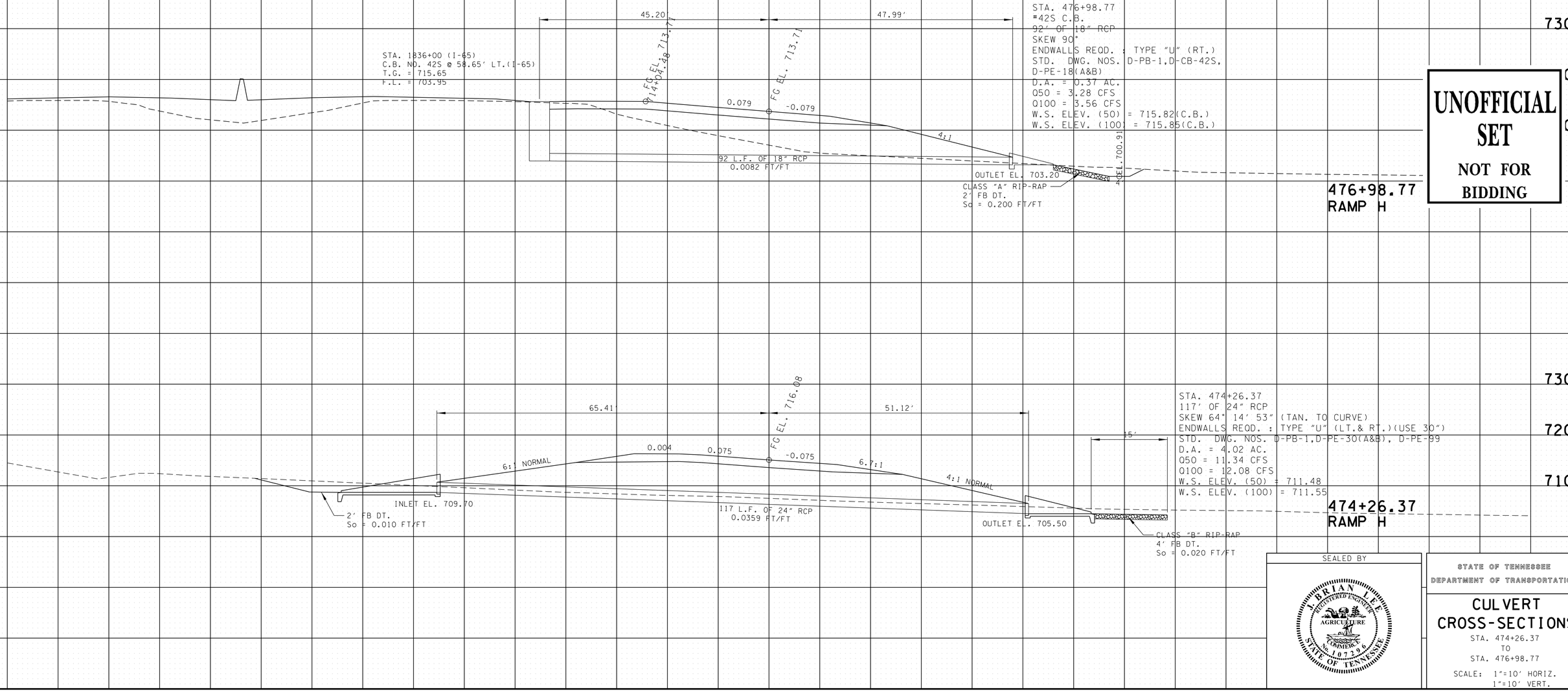
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	57
CONST.	2014	STP/HPP/NH-I-65-3(113)	101

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107290
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 474+26.37
TO
STA. 476+98.77

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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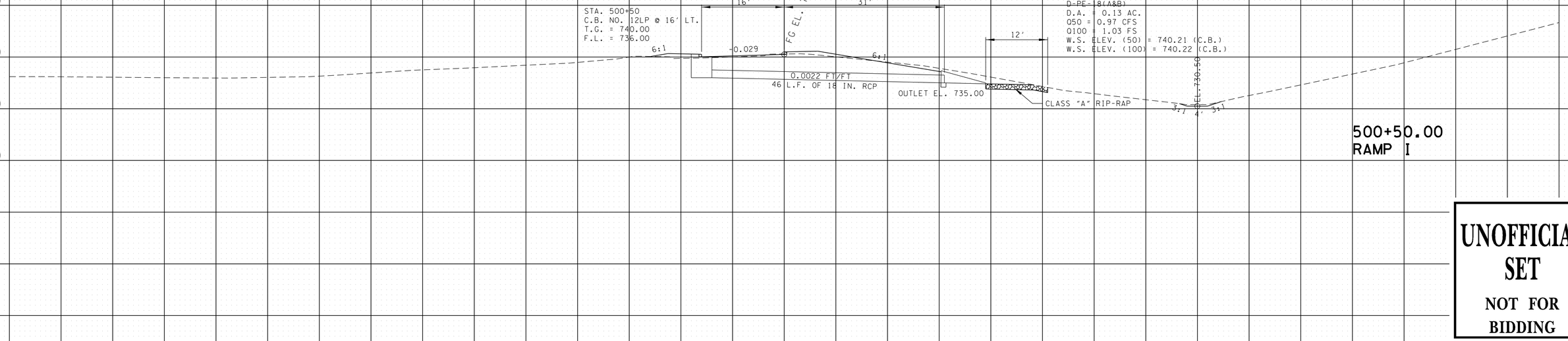
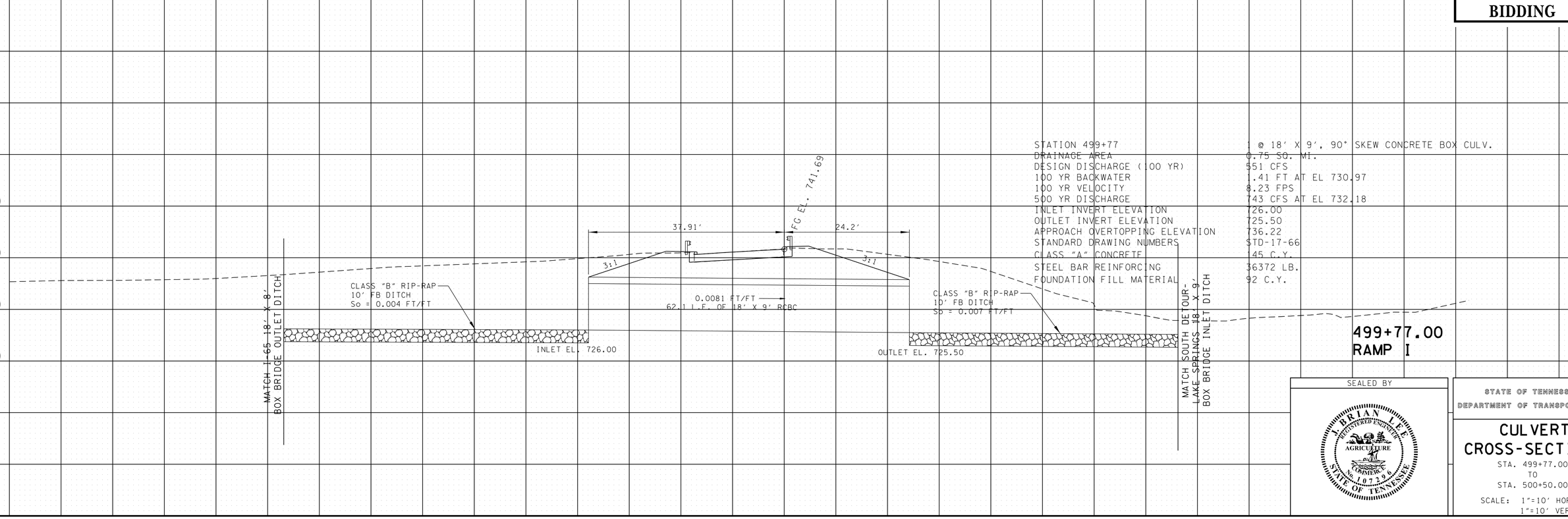
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	57A
CONST.	2014	STP/HPP/NH-I-65-3(113)	102

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





UNOFFICIAL SET
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SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
19796
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 499+77.00
TO
STA. 500+50.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	54
CONST.	2014	STP/HPP/NH-I-65-3(113)	103

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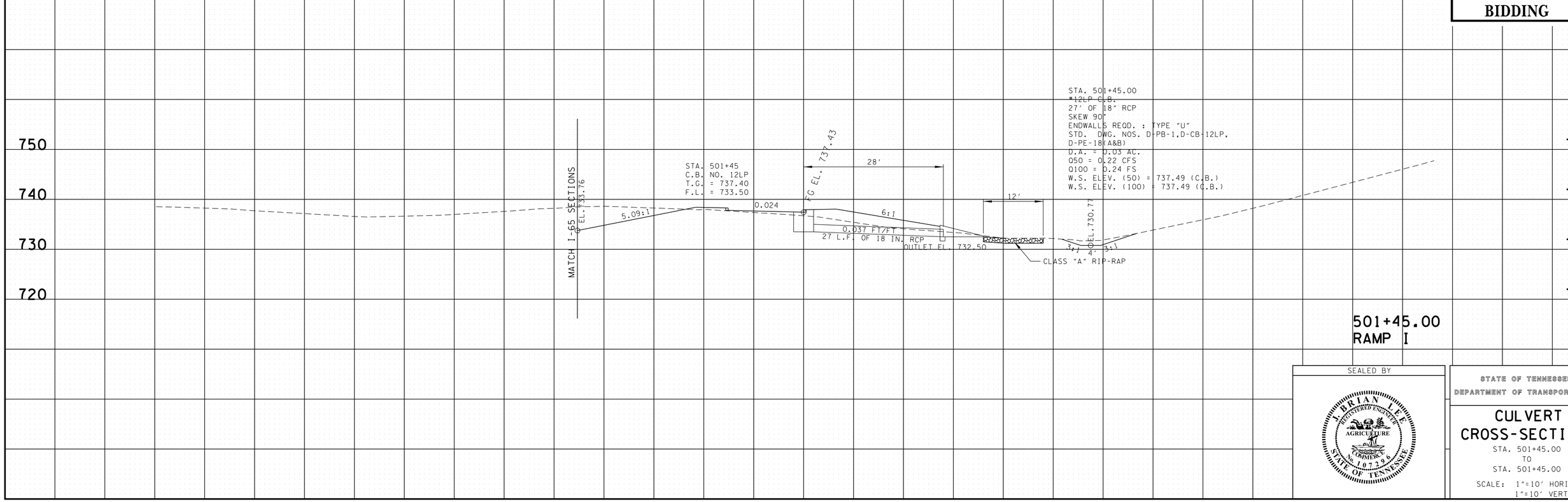

501+45.00
RAMP I

SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
NUMBER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 501+45.00
TO
STA. 501+45.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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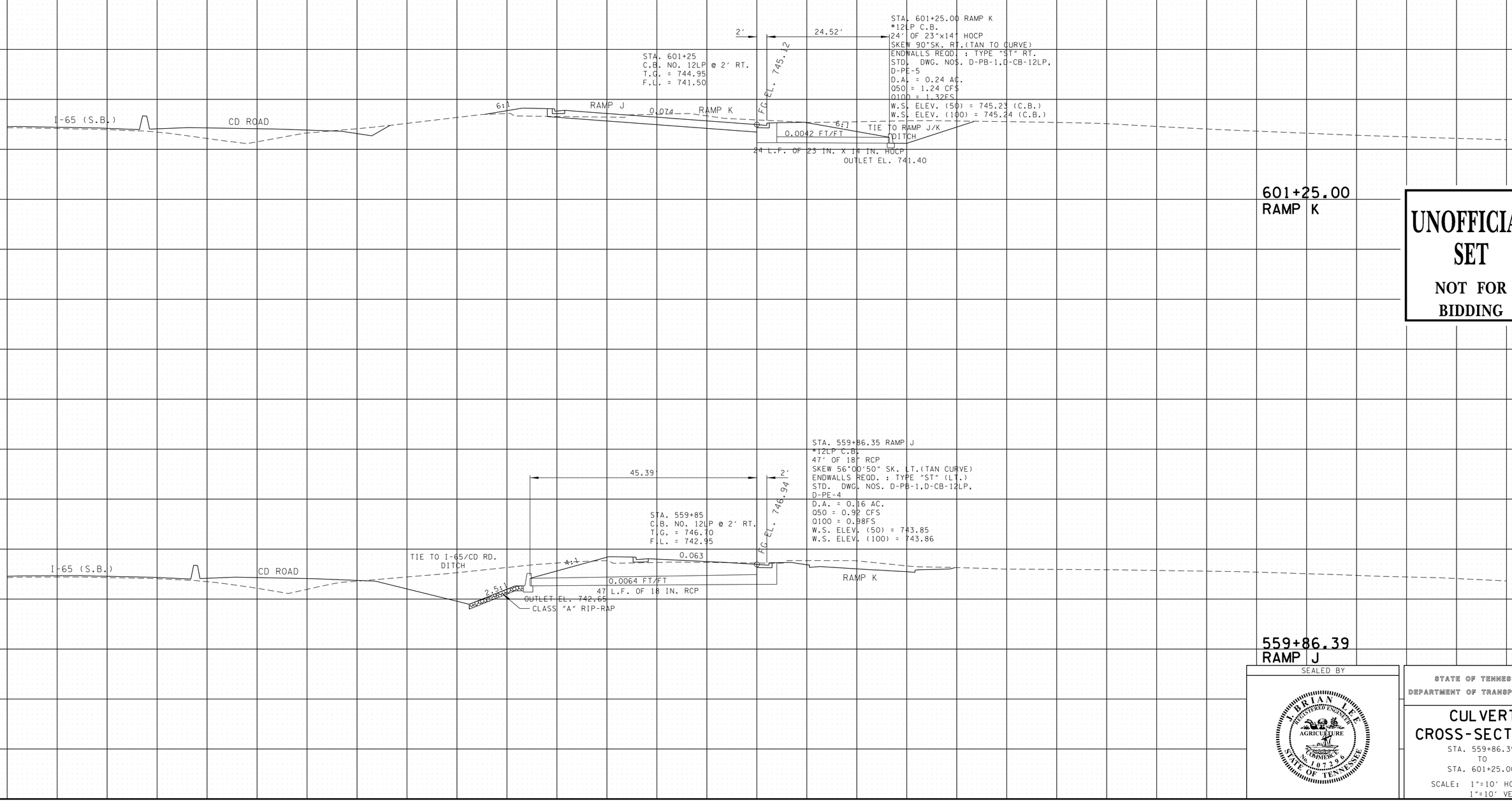
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	58
CONST.	2014	STP/HPP/NH-I-65-3(113)	104

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



UNOFFICIAL SET

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SEALED BY

L. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
SUMMER
No. 107390
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 559+86.39
TO
STA. 601+25.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	59
CONST.	2014	STP/HPP/NH-I-65-3(113)	105

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

KNOWN EXCEPTIONAL TENNESSEE WATERS

(3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(4) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(5) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(6) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(7) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(8) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(9) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(10) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(11) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

UTILITY RELOCATION

(12) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(13) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY

(14) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(15) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(16) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(17) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(18) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(19) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

(20) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(21) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	59A
CONST.	2014	STP/HPP/NH-I-65-3(113)	105A

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ROBERTSON CO. S.R. 109 / I-65 - 74003-3164-44

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	517
209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	260
209-05	SEDIMENT REMOVAL	C.Y.	3433
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	6479
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	19288
209-08.07	ROCK CHECK DAM	EACH	120
209-08-08	ENHANCED ROCK CHECK DAM	EACH	135
209-08.09	FILTER SOCK CHECK DAM	EACH	243
209-09.01	SANDBAGS	BAG	3612
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	25
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	28
209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	939
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	40
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	32
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	37
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	1
209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	15
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	3
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	1
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	538
209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	182
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	142
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	787
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	400
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	2913
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	7395
740-10.04	GEOTEXTILE (TYPE IV) (STABILIZATION)	S.Y.	8402
740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION AND SEDIMENT CONTROL)	L.F.	15732
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2531
801-03	WATER (SEEDING & SODDING)	M.G.	723
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	69671

EROSION PREVENTION AND SEDIMENT CONTROL

QUANTITIES - SUMNER CO. S.R. 109 - 83001-3143-44

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	90
209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	52
209-05	SEDIMENT REMOVAL	C.Y.	888
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	5157
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	3470
209-08.07	ROCK CHECK DAM	EACH	15
209-08-08	ENHANCED ROCK CHECK DAM	EACH	28
209-08.09	FILTER SOCK CHECK DAM	EACH	65
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	21
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	10
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	6
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	9
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	3
209-40.43	CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	1
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	2
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	2
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	92
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	3166
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	400
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	562
709-05.08	MACHINED RIP-RAP (CLASS B)	TON	1073
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	4181
740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION AND SEDIMENT CONTROL)	L.F.	10410
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	668
801-03	WATER (SEEDING & SODDING)	M.G.	261
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	8370

EROSION PREVENTION AND SEDIMENT CONTROL

QUANTITIES - S.R. 41 ROBERTSON CO. - 74096-3201-14

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	29
209-05	SEDIMENT REMOVAL	C.Y.	91
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	5730
209-08-08	ENHANCED ROCK CHECK DAM	EACH	5
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	16
209-40.43	CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	2
209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	1
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	11
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	1
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	5
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	23
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	343
740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION AND SEDIMENT CONTROL)	L.F.	450
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	104
801-03	WATER (SEEDING & SODDING)	M.G.	148

EROSION PREVENTION AND SEDIMENT CONTROL

QUANTITIES - S.R. 41 SUMNER CO. - 83008-3229-14

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	29
209-05	SEDIMENT REMOVAL	C.Y.	89
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	5449
209-08-08	ENHANCED ROCK CHECK DAM	EACH	3
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	15
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	1
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	10
209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	1
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	343
740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION AND SEDIMENT CONTROL)	L.F.	450
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	103
801-03	WATER (SEEDING & SODDING)	M.G.	144

EROSION PREVENTION AND SEDIMENT CONTROL

QUANTITIES - SIMPSON CO., KY I-65 - 74003-3168-44

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-05	SEDIMENT REMOVAL	C.Y.	101
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	298
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	3759
209-08.07	ROCK CHECK DAM	EACH	8
209-08-08	ENHANCED ROCK CHECK DAM	EACH	11
209-08.09	FILTER SOCK CHECK DAM	EACH	5
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	5
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	4
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	23
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	172
740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION AND SEDIMENT CONTROL)	L.F.	348
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	72
801-03	WATER (SEEDING & SODDING)	M.G.	34
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	1056

NOTE:
FOR FOOTNOTES ASSOCIATED WITH EPSC ITEMS SEE ESTIMATED ROADWAY QUANTITY SHEETS.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
ENVIRONMENT
COMMERCE
No. 107295
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	60
CONST.	2014	STP/HPP/NH-I-65-3(113)	106

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1810 1815 1820

N

SHADY PARK ROAD
HIGHLAND ROAD
PRES. R.O.W. (C.A.) & FENCE
GRASS
TREES / BRUSH
TREES
I-65 SOUTHBOUND (ASP.)
I-65 NORTHBOUND (ASP.)
I-65
N 14° 26' 40" E
POND
CULTIVATED FIELD
FLAG

SEE SHEET NO. 107
MATCH LINE STA. 1820+00.00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

B.O.P. TO STA.1820+00
SCALE: 1"=50'

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	60A
CONST.	2014	STP/HPP/NH-I-65-3(113)	106A

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1810 1815 1820

SHADY PARK ROAD
HIGHLAND ROAD
PRES. R.O.W. (C.A.) & FENCE
I-65 SOUTHBOUND (ASP.)
I-65 NORTHBOUND (ASP.)
I-65
N 14° 26' 40" E
POND
TUBE
SOCK
SF
MATCH LINE STA. 1820+00.00 SEE SHEET NO. 107A

GENERAL NOTE: ALL EPSC MEASURES FROM PREVIOUS PHASES ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
□ (2)	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
×× SOCK ×× SOCK ××	FILTER SOCK	EC-STR-8
×× TUBE ×× TUBE ××	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
B.O.P. TO STA.1820+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	60B
CONST.	2014	STP/HPP/NH-I-65-3(113)	106B

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1810

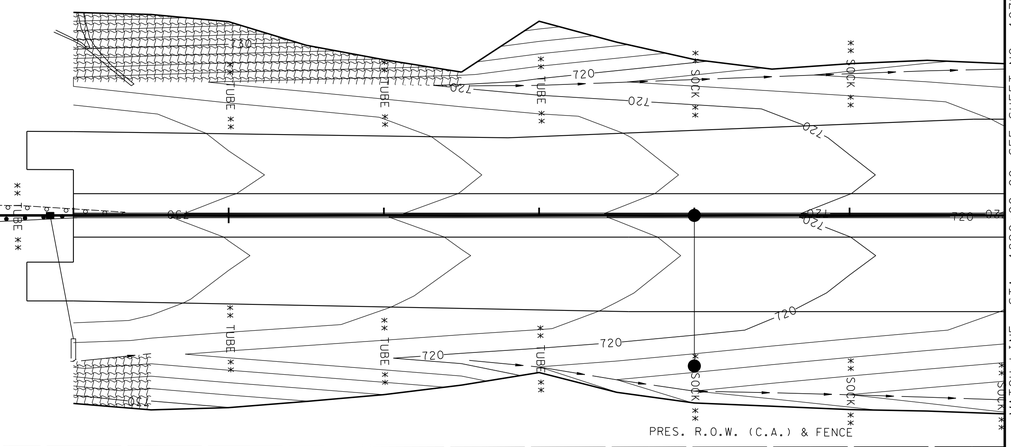
1815

1820

N

I-65
N 14° 26' 40" E

PRES. R.O.W. (C.A.) & FENCE



PRES. R.O.W. (C.A.) & FENCE

MATCH LINE STA. 1820+00.00 SEE SHEET NO. 107B

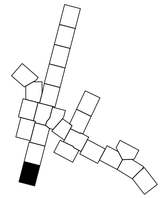
POND

GENERAL NOTE: ALL EPSC MEASURES FROM PREVIOUS PHASES ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
B.O.P. TO STA.1820+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	61
CONST.	2014	STP/HPP/NH-I-65-3(113)	107

REV. 04-02-14: REMOVED PROP. R.O.W. AND TEMP. CONST. ESMT. FOR EPSC DEVICES ON TRACT 50. UPDATED R.O.W. BEGIN PROJ. STATION.

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456
(SEE SHEETS 34-39 FOR PROFILE)

POT STA. 724+41.18

SEE SHEET NO. 106 STA. 1820+00.00

SEE SHEET NO. 108 STA. 1833+00.00

MATCH LINE

1820 1825 1830

WOODS
TREES / BRUSH
PRES. R.O.W. (C.A.) & FENCE
GRASS
I-65 SOUTHBOUND (ASP.)
I-65 NORTHBOUND (ASP.)
I-65
N 14° 26' 40" E
S 13° 29' 22" W
720
SUMMERS BRANCH STR-1
EXIST. PERMANMENT DRAINAGE EASEMENT
OUT - 1 PH 1
OUT - 2 PH 1
OUT - 3 PH 1
OUT - 4 PH 1
OUT - 4A PH 1
3° DIVERGENCE
RAMP A
20' AT&T F.O.C. ESMT.
TEMP. CONST. ESMT.
CULTIVATED FIELD

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396
(SEE SHEETS 40-41 FOR PROFILE)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	TEMPORARY BERM	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-1	6.8	2
OUT-2	5.3	3
OUT-3	4.8	4
OUT-4	8.8	2
OUT-4A	11.0 (UNDISTURBED)	2

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.1820+00 TO STA.1833+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	61A
CONST.	2014	STP/HPP/NH-I-65-3(113)	107A

REV. 01-27-14: ADDED NOTE "DO NOT DISTURB BILLBOARD" ON TRACT. 28 STA. 1832+00 +/- RT.

REV. 04-02-14: REMOVED PROP. R.O.W. AND TEMP. CONST. ESMT. FOR EPSC DEVICES ON TRACT 50. UPDATED R.O.W. BEGIN PROJ. STATION.

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

APPLICABLE TO INLET; OUTLET

PHASE 2A: INSTALL TEMP. STR. DIVERSION CHANNEL SO THAT THE SOUTHERN MOST BARREL OF THE RCBB CAN BE CONSTRUCTED IN THE DRY

PHASE 2B: ADJUST TEMP. DIVERSION CHANNEL TO DIVERT FLOW INTO THE NEW SOUTHERN BARREL BUILT IN PHASE 2A. CONSTRUCT REMAINING PORTION OF RCBB

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456
(SEE SHEETS 34-39 FOR PROFILE)

POT 724+41.18

1820 1825 1830

MATCH LINE STA. 1820+00.00 SEE SHEET NO. 106A

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 108A

PRES. R.O.W. (C.A.) & FENCE

I-65 SOUTHBOUND (ASP.)

I-65 NORTHBOUND (ASP.)

N 14° 26' 40" E
I-65

S 13° 29' 22" W

3° DIVERGENCE

RAMP A

20' AT&T F.O.C. ESMT.

PRES. R.O.W. (C.A.) & FENCE

SUMMERS BRANCH STR-1

EXIST. PERMANMENT DRAINAGE EASEMENT

PHASE 2A

PHASE 2B

OUT - 1 PH 2 & 3
OUT - 2 PH 2 & 3
OUT - 3 PH 2 & 3
OUT - 4 PH 2 & 3
OUT - 40 PH 2 & 3
OUT - 44 PH 2 & 3

DO NOT DISTURB BILLBOARD

TEMP. CONST. ESMT.

TEMP. CONST. ESMT.

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396
(SEE SHEETS 40-41 FOR PROFILE)

DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
1831+50 LT	45	22.5	2.5	1.5	115

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-1	6.0	6
OUT-2	5.6	3
OUT-3	6.4	5
OUT-4	21.3 (11.5 UNDISTURBED)	6
OUT-40	1.3	1
OUT-44		

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 1820+00 TO STA. 1833+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	61B
CONST.	2014	STP/HPP/NH-I-65-3(113)	107B

REV. 04-02-14: REMOVED PROP. R.O.W. AND TEMP. CONST. ESMT. FOR EPSC DEVICES ON TRACT 50. UPDATED R.O.W. BEGIN PROJ. STATION.

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

1820 1825 1830

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456
(SEE SHEETS 34-39 FOR PROFILE)

SUMMERS BRANCH STR-1

EXIST. PERMANMENT DRAINAGE EASEMENT

OUT - 2 PH 2 & 3
OUT - 3 PH 2 & 3
OUT - 40 PH 2 & 3
OUT - 44 PH 2 & 3
OUT - 1 PH 2 & 3
OUT - 4 PH 2 & 3

PRES. R.O.W. (C.A.) & FENCE

720

S 13° 29' 22" W

N 14° 26' 40" E
I-65

30' DIVERGENCE

TEMP. CONST. ESMT.

EXIST. PERMANMENT DRAINAGE EASEMENT

SUMMERS BRANCH STR-1

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396
(SEE SHEETS 40-41 FOR PROFILE)

MATCH LINE STA. 1820+00.00 SEE SHEET NO. 106B

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 108B

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	EROSION CONTROL BLANKET	EC-STR-34
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	ROCK CHECK DAM (V-DITCH)	EC-STR-6

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-1	6.0	6
OUT-2	5.6	3
OUT-3	6.4	5
OUT-4	21.3 (11.5 UNDISTURBED)	6
OUT-40	1.3	1
OUT-44		

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.1820+00 TO STA.1833+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	62
CONST.	2014	STP/HPP/NH-I-65-3(113)	108

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 109

MATCH LINE - RAMP E
STA. 306+54.27

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 48-50 FOR PROFILE)

PASTURE

PROP. R.O.W. & C.A. FENCE

PRES. R.O.W. (C.A.) & FENCE

POTENTIAL SINKHOLE LOCATION

CULTIVATED FIELD

GRASS

TREES W/BRUSH

I-65 SOUTHBOUND (ASP.)

I-65 NORTHBOUND (ASP.)

I-65

RAMP A

N 38° 00' 03" E

S 13° 29' 22" W

N 14° 26' 40" E

3° DIVERGENCE N 17° 26' 40" E

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 107

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 110

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 125

ST 479+35.34
CS 476+95.34
SC 471+66.74
TS 104+76.66
SC 107+41.66
CS 109+90.57
ST 112+55.57
POT 710+00.08

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	TEMPORARY BERM	EC-STR-27
	TEMPORARY SLOPE DRAIN	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1833+00 TO STA.1846+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	62A
CONST.	2014	STP/HPP/NH-I-65-3(113)	108A

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 109A

MATCH LINE - RAMP E
STA. 306+54.27

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 48-50 FOR PROFILE)

TEMP. DIV. CHANNEL
(GEOTEXTILE TYPE III)
B=2'
D=2'

POTENTIAL SINKHOLE LOCATION

PROP. R.O.W. & C.A. FENCE

PRES. R.O.W. (C.A.) & FENCE

I-65 SOUTHBOUND (ASP.)

I-65

I-65 NORTHBOUND (ASP.)

RAMP A

RAMP H

RAMP E

24" RCP

18" RCP

OUT. EL. 717.45

POT 710+00.98

SC 107+41.66

CS 109+90.57

ST 112+55.57

TS 104+76.66

ST 479+35.34

CS 476+95.34

SC 471+66.74

3.10° DIVERGENCE N 17° 26' 40" E

S 13° 29' 22" W

N 14° 26' 40" E

N 38° 00' 03" E

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 107A

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 110A

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 125A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1833+00 TO STA.1846+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	62B
CONST.	2014	STP/HPP/NH-I-65-3(113)	108B

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 109B

MATCH LINE - RAMP E
STA. 306+54.27

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 48-50 FOR PROFILE)

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 107B

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 110B

PROP. R.O.W. & C.A. FENCE

PRES. R.O.W. (C.A.) & FENCE

S 13° 29' 22" W

N 14° 26' 40" E
I-65

3° DIVERGENCE N 17° 26' 40" E

N 38° 00' 03" E

24" RCP

18" RCP

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 125B

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1833+00 TO STA.1846+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	63
CONST.	2014	STP/HPP/NH-I-65-3(113)	109

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-5	41.3 (32.2 UNDISTURBED)	3

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
SFB SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
	TEMPORARY BERM	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUT - 5

TEMP. DIV. CHANNEL (GEOTEXTILE TYPE III) B=2' D=2'

TEMP. DIV. CHANNEL (GEOTEXTILE TYPE III) B=2' D=2'

TEMP. DIV. CHANNEL (GEOTEXTILE TYPE III) B=2' D=2'

POTENTIAL SINKHOLE LOCATION

WWC-3 ENDS AT CULTIVATED FIELD

WWC-2

PROP. R.O.W.

PROP. C.A. FENCE

POT 33+43.78

PT 30+72.94

TS 469+26.74

S 15° 27' 16" E

S 12° 59' 41" W

S 09° 18' 1" E

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 108

MATCH LINE - RAMP E
STA. 306+54.27

MATCH LINE - RAMP H
STA. 461+34.86
SEE SHEET NO. 126

MATCH LINE - RAMP E
STA. 312+82.16

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

RAMPS E & H

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	63A
CONST.	2014	STP/HPP/NH-I-65-3(113)	109A

DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
467+75 LT RAMP H	42	21	4	2.5	180

DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
468+75 LT RMP H	49	24.5	4	2.5	236

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	SEDIMENT TRAP	EC-STR-7
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	TEMPORARY SLOPE DRAIN	EC-STR-27
TTTTTTTTT	TEMPORARY BERM	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-5	83.8 (46.8 UNDISTURBED)	5

OUT - 5

WWC-2

WWC-3

POTENTIAL SINKHOLE LOCATION
WWC-3 ENDS AT CULTIVATED FIELD

S 15° 27' 16" E

S 12° 39' 41" W

S 04° 08' 18" E

PROP. R.O.W.

PROP. C.A. FENCE

PROP. R.O.W. & C.A. FENCE

465

470

30

310

MATCH LINE - RAMP H
STA. 461+34.86
SEE SHEET NO. 126A

MATCH LINE - RAMP E
STA. 312+82.16

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 108A

MATCH LINE - RAMP E
STA. 306+54.27

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107209
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

RAMPS E & H

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	63B
CONST.	2014	STP/HPP/NH-I-65-3(113)	109B

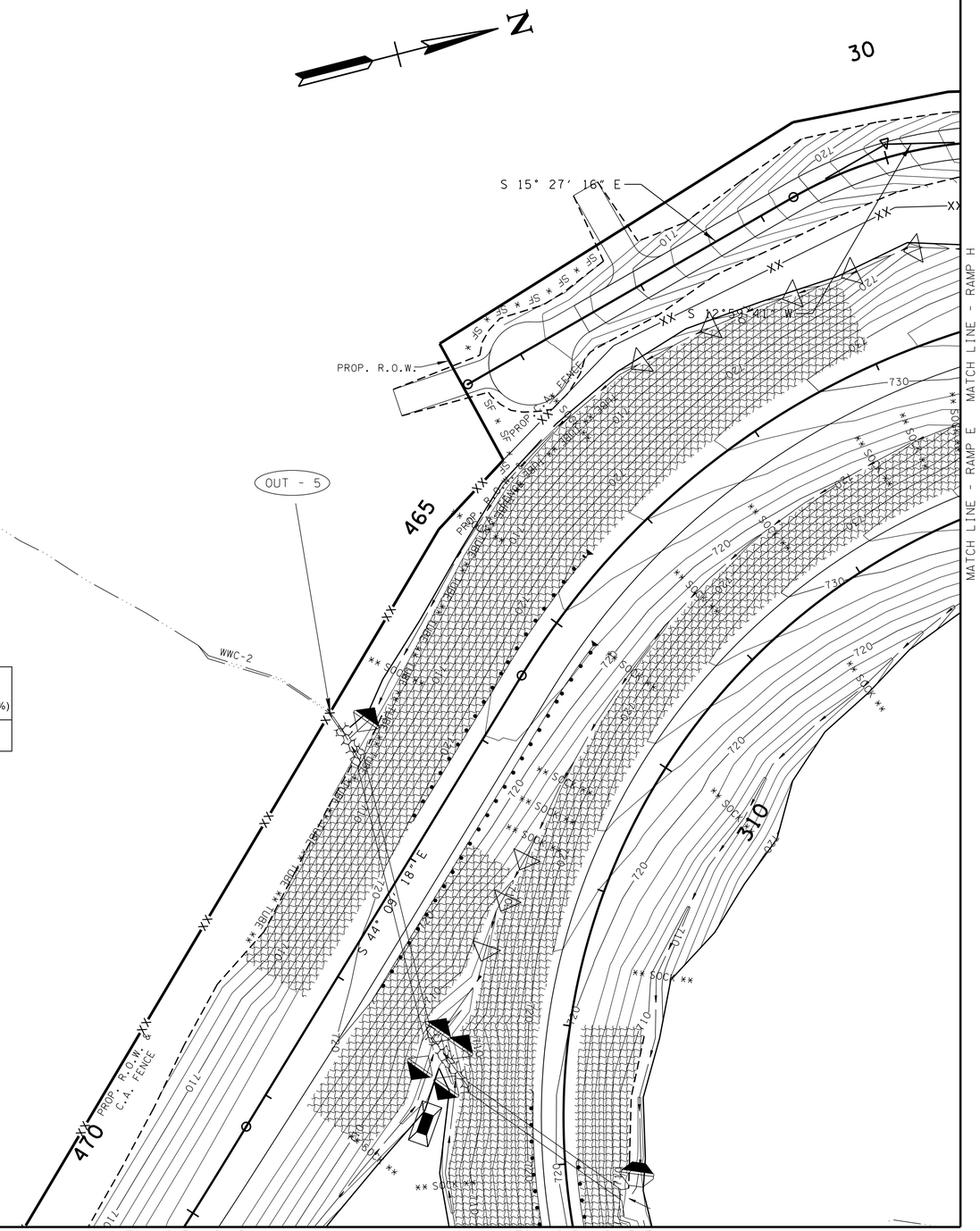
DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
467+75 LT RAMP H	42	21	4	2.5	180

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	EROSION CONTROL BLANKET	EC-STR-34
	SEDIMENT TRAP	EC-STR-7
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-5	83.8 (46.8 UNDISTURBED)	5



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

RAMPS E & H
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	64
CONST.	2014	STP/HPP/NH-I-65-3(113)	110

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 126

SEE SHEET NO. 109

POTENTIAL SINKHOLE LOCATION

WWC-3

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139
(SEE SHEETS 45-46 FOR PROFILE)

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726
(SEE SHEETS 45-46 FOR PROFILE)

1850

1855

CULTIVATED FIELD

PC 300+00.00

TS 387+50.07

POT 25+78.13

PROP. R.O.W. & C.A. FENCE

PRES. R.O.W. (C.A.) & FENCE

POTENTIAL SINKHOLE LOCATION

WWC-2

GRASS

TREES

LIMIT OF CONST. 30+00.000

S. OLD DETOUR ROAD

PC 3+24.65

PT 2

TREES 30

N 14° 21' 49" E

N 13° 25' 52" E

N 15° 59' 23" E

695

700

300

385

S 14° 26' 40" W

N 14° 26' 40" E

I-65 SOUTHBOUND (ASP.)

I-65

I-65 NORTHBOUND (ASP.)

EXIST. 42" RCP AND ENDWALLS TO BE REMOVED

EXIST. C.B. TO BE REMOVED.

EXIST. 15" RCP TO BE REMOVED

TREES / BRUSH

PRES. R.O.W. (C.A.) & FENCE

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

N 48° 46' 14" W

S.R. 109

MATCH LINE - S.R. 109
STA. 381+50.00
SEE SHEET NO. 125

CULTIVATED FIELD

RAMP C

SC 211+01.48

OPEN FIELD

N 16° 27' 12" W

PROP. R.O.W. & C.A. FENCE

MATCH LINE - RAMP C
STA. 207+53.64

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 108

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 111

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107229
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	64A
CONST.	2014	STP/HPP/NH-I-65-3(113)	110A

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 126A

SEE SHEET NO. 109A

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 108A

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 111A

MATCH LINE - S.R. 109
STA. 381+50.00
SEE SHEET NO. 125A

MATCH LINE - RAMP C
STA. 207+53.64

N

POTENTIAL SINKHOLE LOCATION

POTENTIAL SINKHOLE LOCATION

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139
(SEE SHEETS 45-46 FOR PROFILE)

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726
(SEE SHEETS 45-46 FOR PROFILE)

PC 300+00.00

TS 387+50.07

POT 25+78.13

PT 28+24.65

PC 29+

PT 29+81

1850

1855

300

385

700

695

210

30

WWC-1

WWC-2

WWC-3

WWC-4

S.R. 109

PROP. R.O.W. & C.A. FENCE

PRES. R.O.W. (C.A.) & FENCE

S. OLD DETOUR ROAD

LIMIT OF CONST. 30+00.00

RAMP C

I-65 SOUTHBOUND (ASP.)

I-65 NORTHBOUND (ASP.)

I-65

EXIST. 42" RCP AND ENDWALLS TO BE REMOVED

EXIST. C.B. TO BE REMOVED.

EXIST. 15" RCP TO BE REMOVED

S 14° 26' 40" W

N 14° 26' 40" E

N 48° 46' 14" W

N 145° 21' 49" E

N 13° 25' 52" E

N 15° 59' 23" E

N 16° 27' 12" W

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
(1)	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
(D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TTTTTTTTT	TEMPORARY BERM	EC-STR-27
	TEMPORARY SLOPE DRAIN	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
TRANSPORTATION
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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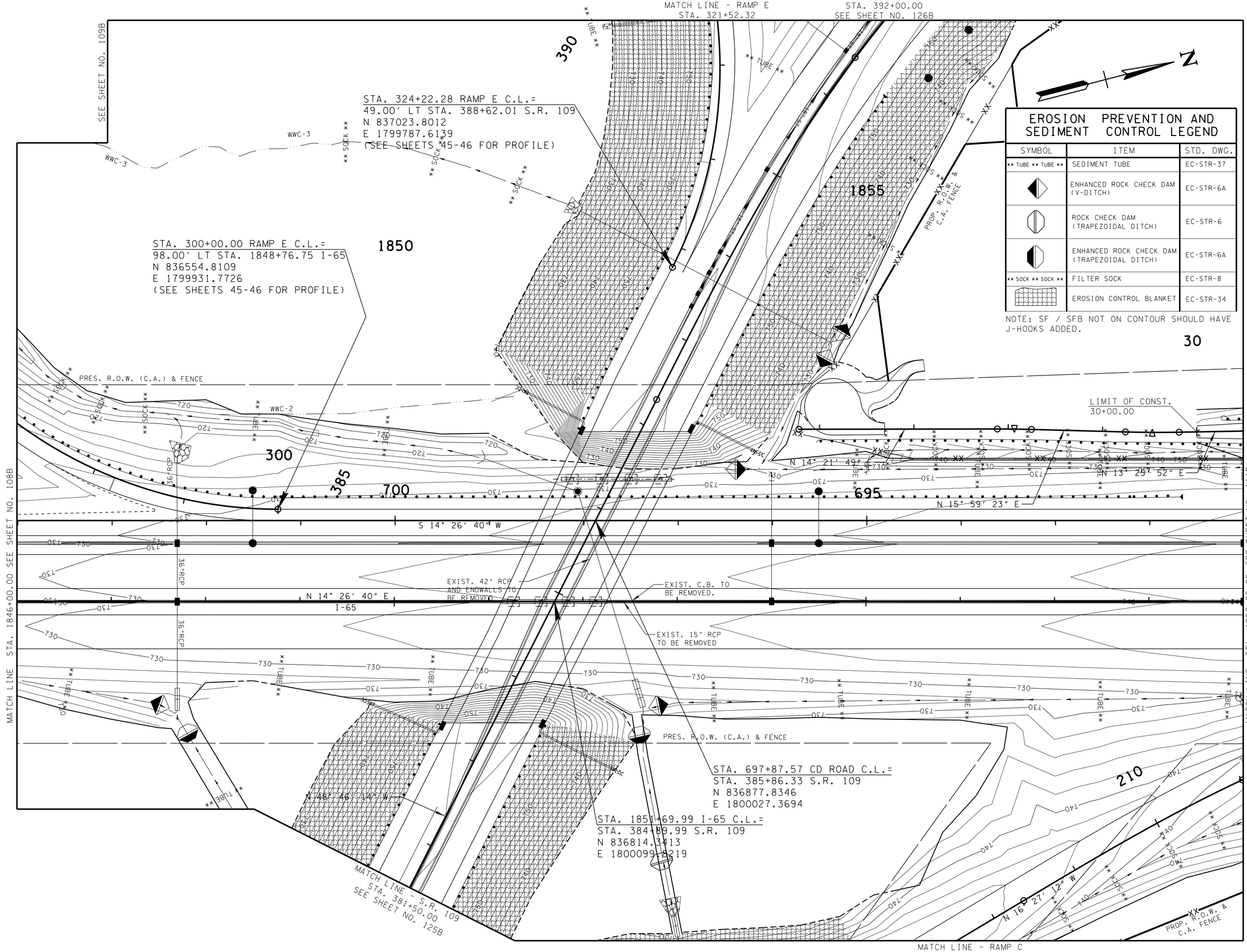
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	64B
CONST.	2014	STP/HPP/NH-I-65-3(113)	110B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	65
CONST.	2014	STP/HPP/NH-I-65-3(113)	111

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

MATCH LINE SEE SHEET NO. 127

EXIST. PIPE TO BE REMOVED

PERM. DRAIN ESMT.

WWC-1 CONVEYANCE BEGINS AT CULVERT OUTLET

EXIST. PIPE TO BE REMOVED

LIMIT OF CONST. 36+13.00

STA. 36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

1860

GRASS

PT 32+72

PT 11+05.61

N 33° 22' 28" W LAKE SPRINGS ROAD

N 22° 02' 19" W

EXIST. PIPE TO BE REMOVED

PT 35+98.07

POT 498+48.84

LIMIT OF CONST. 498+65.00

1865

EXIST. PIPE TO BE REMOVED

S 4° 58' 56" W

500

PRES. R.O.W. (C.A.) & FENCE

N 33° 25' 55" E

STA. 499+25.00 RAMP "I"
N 838101.0549
E 1800145.0757
(SEE SHEET 51 FOR PROFILE)

S 20° 43' 57" E

155.86'

POT 685+40.94

48" ST

685

690

S 14° 26' 40" W

POT 1863+17.25

S 14° 19' 12" W

POT 1864+39.00

EXIST. PIPE TO BE REMOVED

EXIST. PIPE TO BE REMOVED

I-65 SOUTHBOUND (ASP.)

EXIST. C.B. TO BE REMOVED.

N 14° 26' 40" E

GRASS / GRV

N 14° 06' 39" E

I-65

N 14° 28' 04" E

I-65 NORTHBOUND (ASP.)

EXIST. 15" RCP TO BE REMOVED

N 14° 17' 36" E

N 16° 27' 12" W

RAMP C

PRES. R.O.W. (C.A.) & FENCE

215

CS 215+19.74

OPEN FIELD

PROP. R.O.W. & C.A. FENCE

EXIST. CONCRETE DITCH TO BE REMOVED

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190
(SEE SHEETS 43-44 FOR PROFILE)

1870

TOP-747.94

TOP-749.64

TOP-750.05

TOP-749.94

TOP-749.59

TOP-743.97

TOP-743.72

TOP-745.16

TOP-746.01

TOP-747.02

680
STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

S 40° 20' 57" W

C&G

GRASS

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 110

MATCH LINE STA. 1872+00.00 SEE SHEET NO. 112

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
✱ SFB ✱ SFB ✱ SFB ✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
Ⓓ	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 1859+00 TO STA. 1872+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	65A
CONST.	2014	STP/HPP/NH-I-65-3(113)	111A

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

MATCH LINE SEE SHEET NO. 127A

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3675
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

STA. 499+25.00 RAMP "I"
N 838101.0549
E 1800145.0757
(SEE SHEET 51 FOR PROFILE)

STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190
(SEE SHEETS 43-44 FOR PROFILE)

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 110A

MATCH LINE STA. 1872+00.00 SEE SHEET NO. 112A

LAKE SPRINGS ROAD
RAMP C
RAMP J
I-65
I-65 SOUTHBOUND (ASP.)
I-65 NORTHBOUND (ASP.)
PRES. R.O.W. (C.A.) & FENCE
PROP. R.O.W. & C.A. FENCE

EXIST. PIPE TO BE REMOVED
EXIST. C.B. TO BE REMOVED.
EXIST. 15" RCP TO BE REMOVED
EXIST. CONCRETE DITCH TO BE REMOVED
PERM. DRAIN ESMT.
WWC-1 CONVEYANCE BEGINS AT CULVERT OUTLET

1860 1865 1870 680 685 690 500 215

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
×× TUBE ×× TUBE ××	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
(1)	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
×× SOCK ×× SOCK ××	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
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I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.1859+00 TO STA.1872+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

MATCH LINE SEE SHEET NO. 127B

PERM. DRAIN. ESMT.

1860

LIMIT OF CONST. 36+13.00

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

LIMIT OF CONST. 498+65.00

1865

1870

PRES. R.O.W.

N 13° 25' 57" E

N 33° 22' 28" W

S 4° 56' 56" W

STA. 499+25.00 RAMP "I"
N 838101.0549
E 1800145.0757
(SEE SHEET 51 FOR PROFILE)

S 20° 45' 54" E

680
STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

S 40° 20' 57" W

690

685

S 14° 26' 40" W

S 14° 19' 12" W

N 14° 26' 40" E

N 14° 06' 39" E

I-65

N 14° 28' 04" E

N 18° 17' 36" E

N 16° 27' 12" W

PRES. R.O.W. (C.A.) & FENCE

215

PROP. R.O.W. & C.A. FENCE

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190
(SEE SHEETS 43-44 FOR PROFILE)

MATCH LINE STA. 1859+00.00 SEE SHEET NO. 110B

MATCH LINE STA. 1872+00.00 SEE SHEET NO. 112B

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	65B
CONST.	2014	STP/HPP/NH-I-65-3(113)	111B

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.1859+00 TO STA.1872+00
SCALE: 1"=50'

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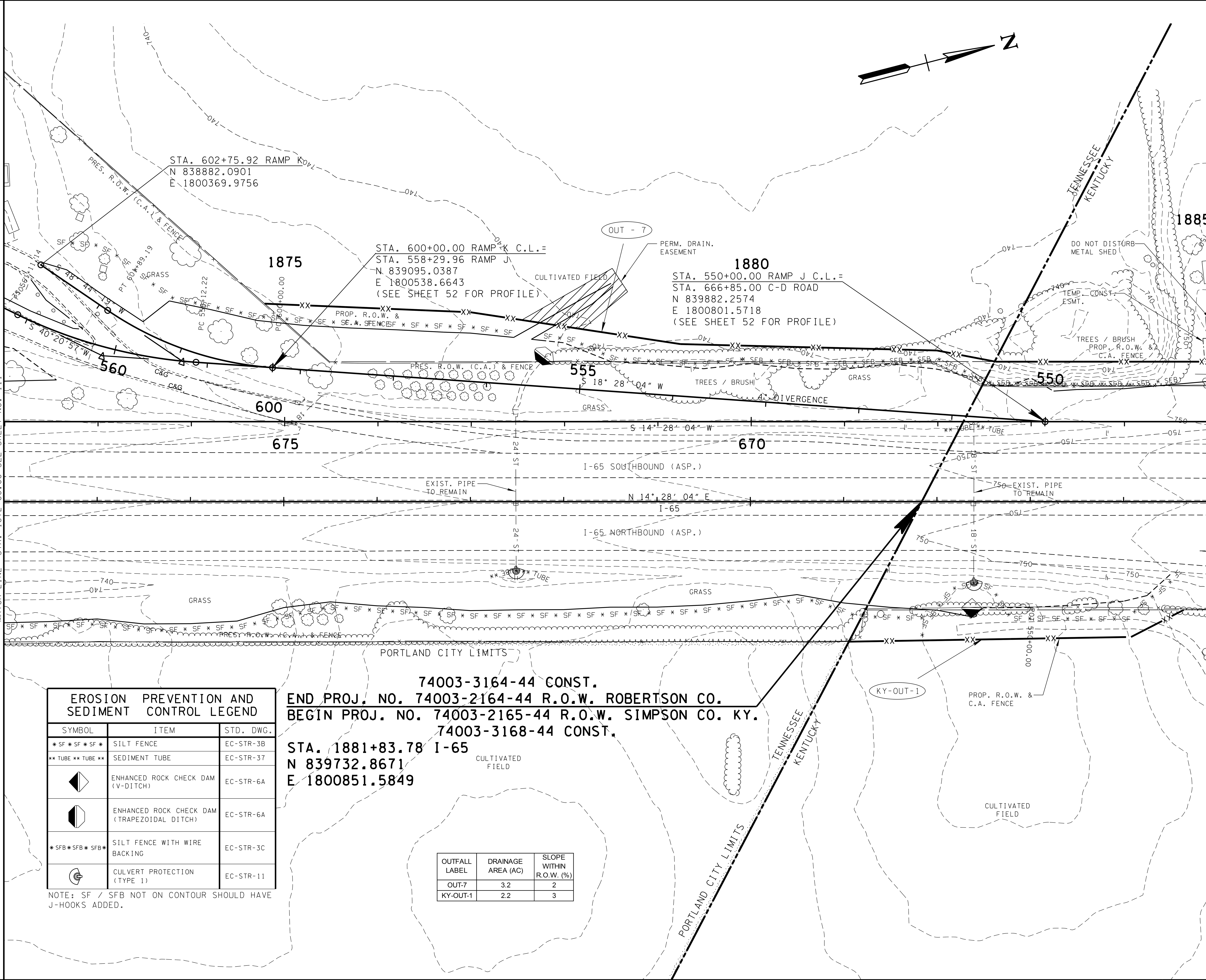
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	66
CONST.	2014	STP/HPP/NH-I-65-3(113)	112

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-7	3.2	2
KY-OUT-1	2.2	3

UNOFFICIAL SET
NOT FOR BIDDING

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J. BRIAN LEE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 107296 STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1872+00 TO STA. 1885+00
SCALE: 1"=50'

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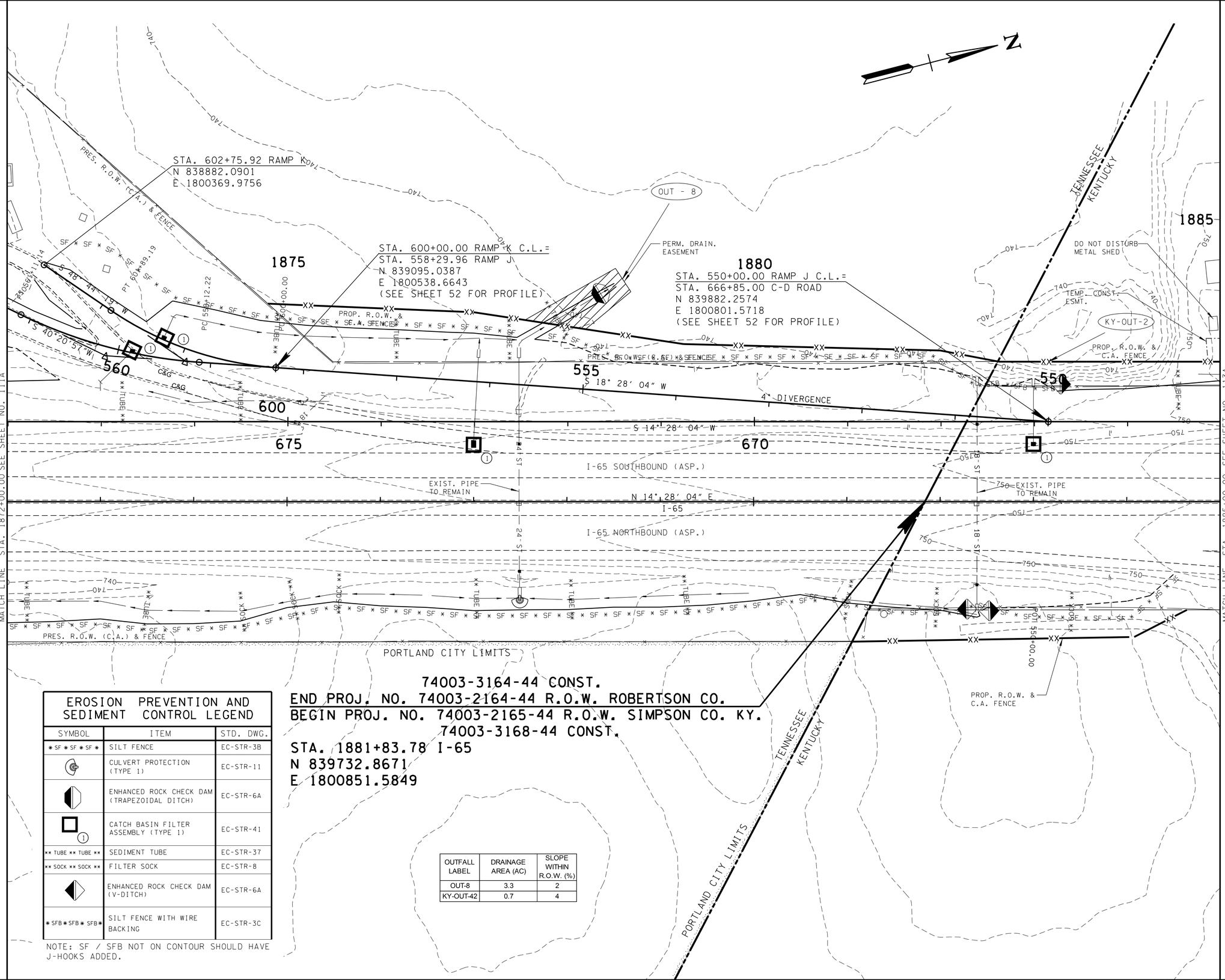
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	66A
CONST.	2014	STP/HPP/NH-I-65-3(113)	112A

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-8	3.3	2
KY-OUT-42	0.7	4

UNOFFICIAL SET
NOT FOR BIDDING

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1872+00 TO STA. 1885+00
SCALE: 1"=50'

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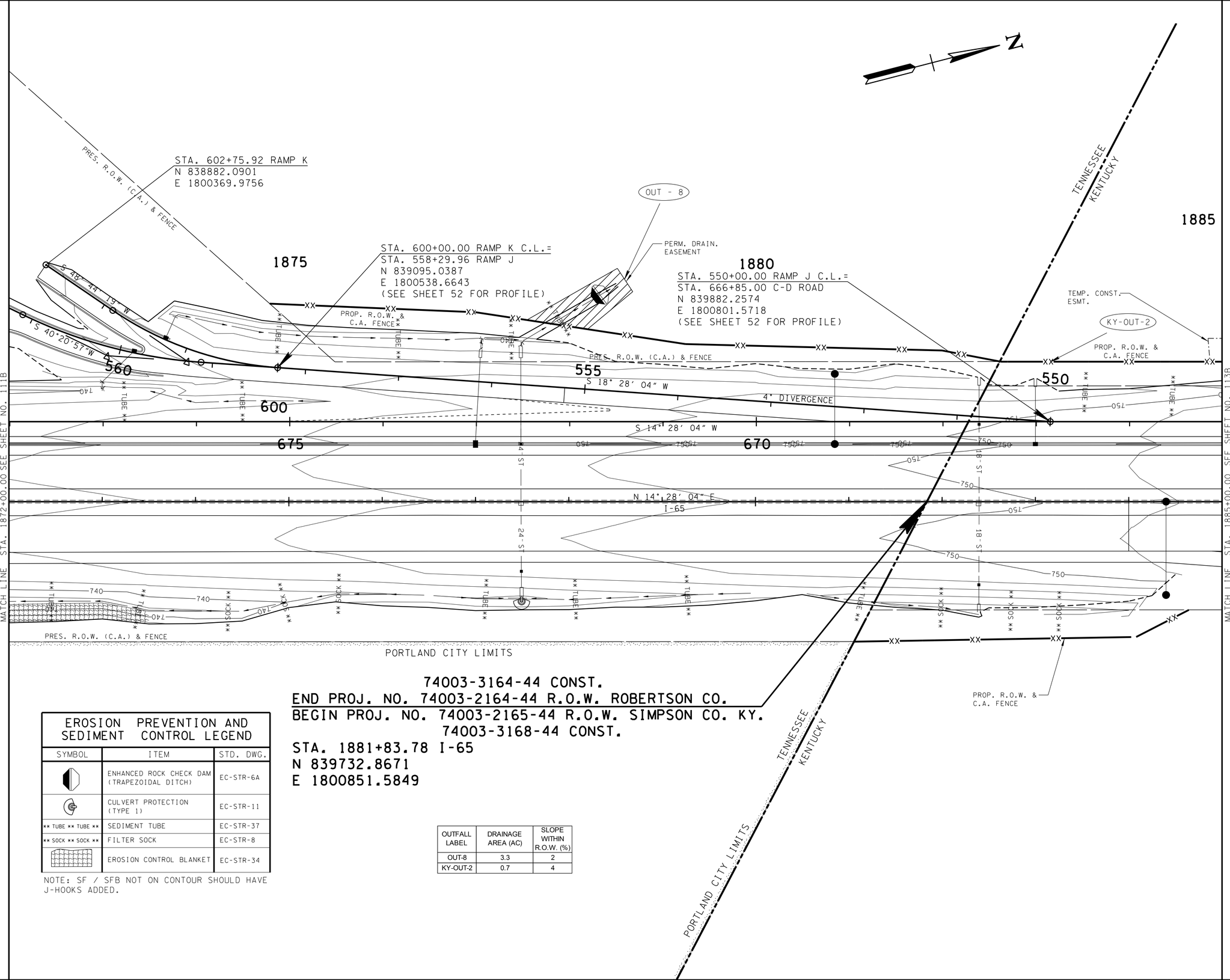
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	66B
CONST.	2014	STP/HPP/NH-I-65-3(113)	112B

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.



74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-8	3.3	2
KY-OUT-2	0.7	4

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 1872+00 TO STA. 1885+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	67
CONST.	2014	STP/HPP/NH-I-65-3(113)	113

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

1885 1890 1895

TEMP. CONST. ESMT.
KY-OUT-4
TEMP. CONST. ESMT.
PASTURE
PROP. R.O.W. & C.A. FENCE
POND
PROP. R.O.W. & C.A. FENCE
PRES. R.O.W. (C.A.) & FENCE
665 660 655
GRASS
S 17° 28' 04" W
I-65 SOUTHBOUND (ASP.)
EXIST. PIPE TO REMAIN
N 14° 28' 04" E
I-65
I-65 NORTHBOUND (ASP.)
EXIST. PIPE TO REMAIN
15" ST
18" STD
TREES / BRUSH
KY-OUT-3
CULTIVATED FIELD
TREES / GRASS

MATCH LINE STA. 1885+00.00 SEE SHEET NO. 112

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 114

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
KY-OUT-3	1.3	4
KY-OUT-4	5.0	4

UNOFFICIAL SET
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AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 1885+00 TO STA. 1898+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	67A
CONST.	2014	STP/HPP/NH-I-65-3(113)	113A

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

1885 1890 1895

TEMP. CONST. ESMT.

KY-OUT-4

TEMP. CONST. ESMT.

PROP. R.O.W. & C.A. FENCE

POND

PROP. R.O.W. FENCE

PRES. R.O.W. (C.A.) & FENCE

665 660 655

TUBE

18" ST

S 17° 28' 04" W

I-65 SOUTHBOUND (ASP.)

EXIST. PIPE TO REMAIN

N 14° 28' 04" E

I-65

I-65 NORTHBOUND (ASP.)

15" ST

EXIST. PIPE TO REMAIN

PRES. R.O.W. (C.A.) & FENCE

KY-OUT-3

MATCH LINE STA. 1885+00.00 SEE SHEET NO. 112A

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 114A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* SF * SF * SF *	SILT FECNCE	EC-STR-3B
(1)	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
KY-OUT-3	1.3	4
KY-OUT-4	3.2	7

UNOFFICIAL SET
NOT FOR BIDDING

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1885+00 TO STA. 1898+00

SCALE: 1"=50'

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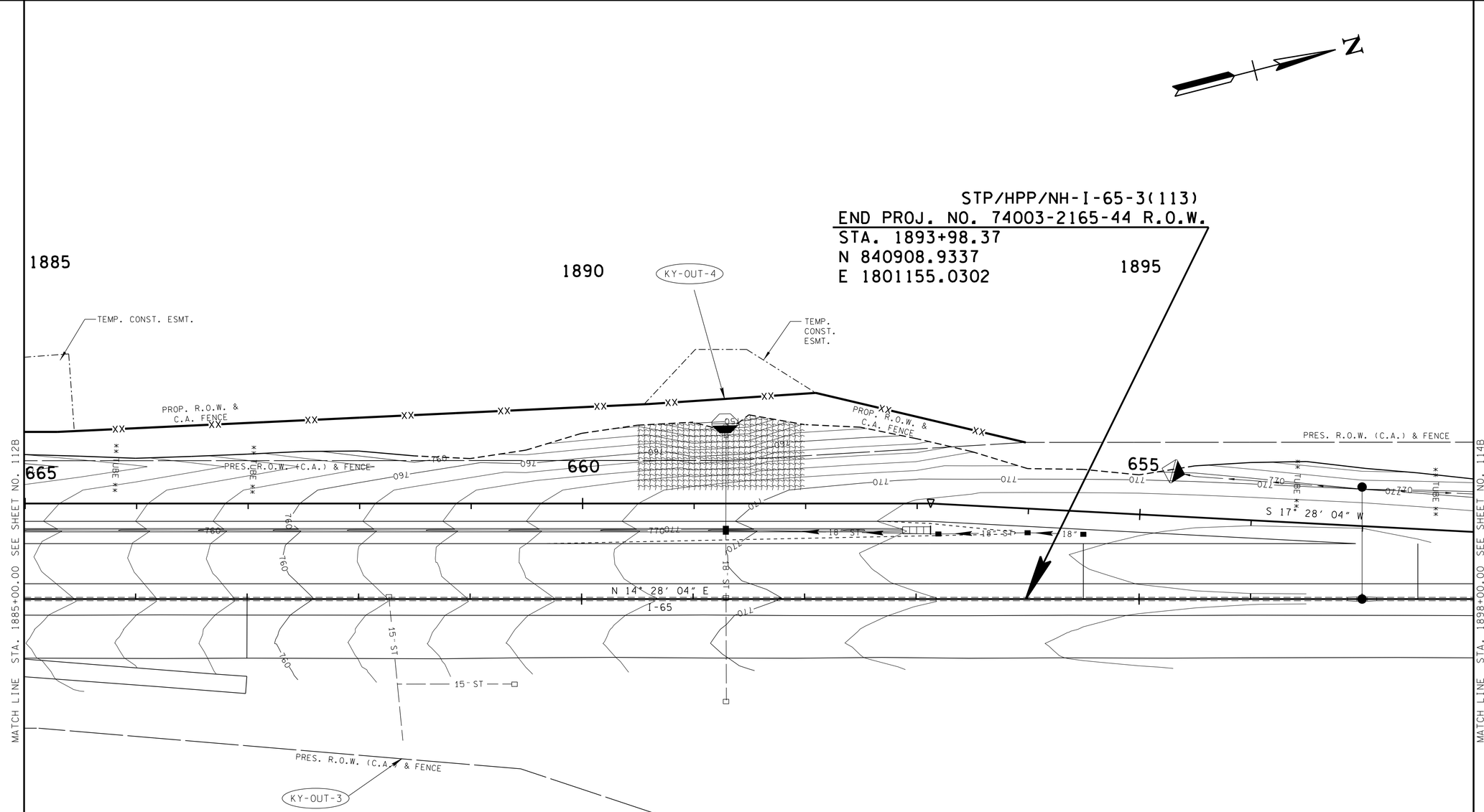
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	67B
CONST.	2014	STP/HPP/NH-I-65-3(113)	113B

REV. 12-09-13: ADDED TEMP. CONST. ESMT. TRACT 52K TO REMOVE WOOD SHED.



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
KY-OUT-3	1.3	4
KY-OUT-4	3.2	7

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1885+00 TO STA. 1898+00

SCALE: 1"=50'

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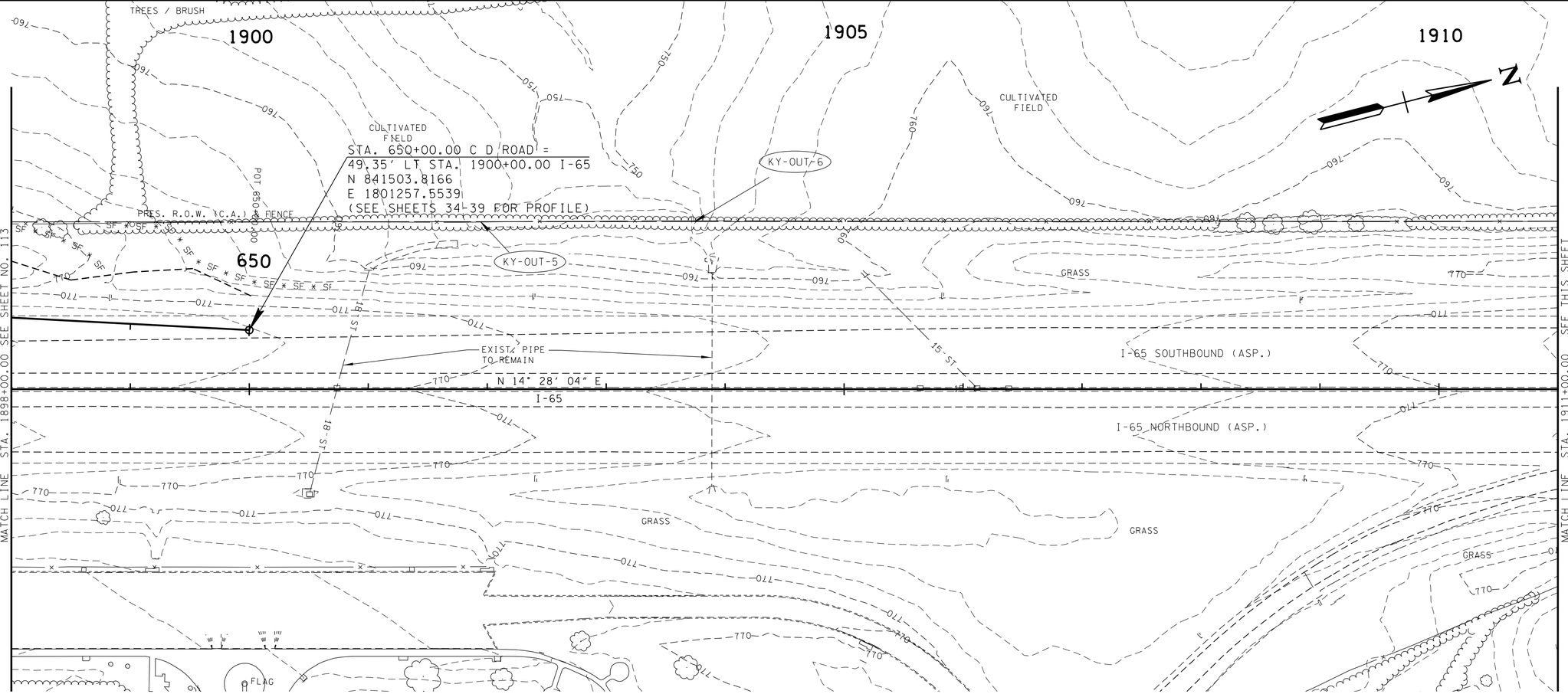
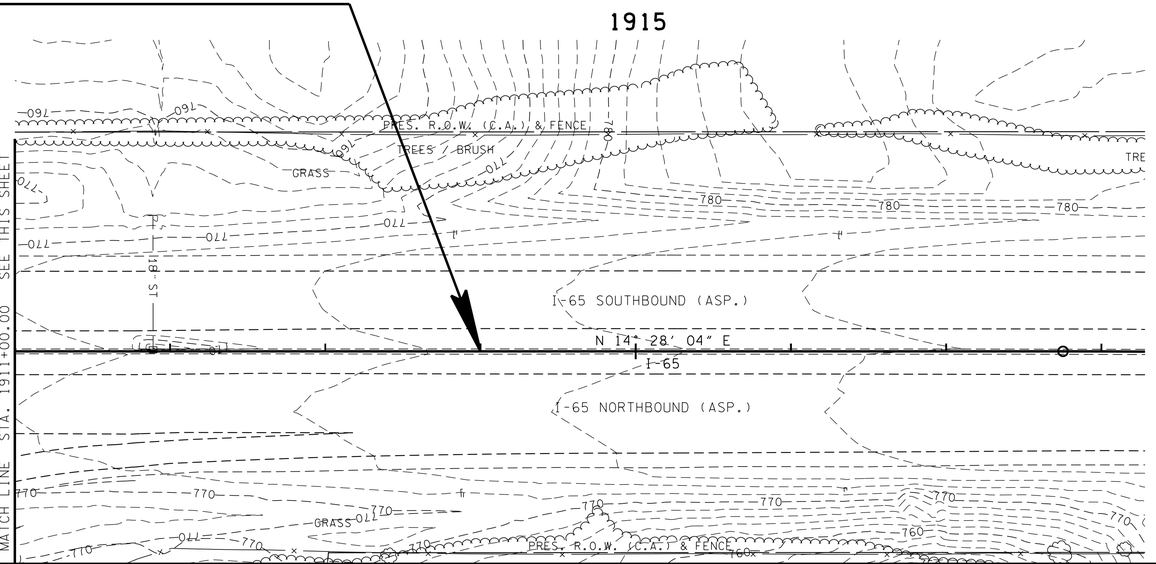
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	68
CONST.	2014	STP/HPP/NH-I-65-3(113)	114



74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

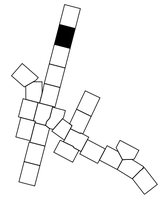


OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
KY-OUT-5	2.9	6
KY-OUT-6	6.2	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING



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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1898+00 TO E.O.P.
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	68A
CONST.	2014	STP/HPP/NH-I-65-3(113)	114A

1900 1905 1910

STA. 650+00.00 C D ROAD =
49.35' LT STA. 1900+00.00 I-65
N 841503.8166
E 1801257.5539
(SEE SHEETS 34-39 FOR PROFILE)

KY-OUT-5 KY-OUT-6

POT 650+00.00

PRES. R.O.W. (C.A.) & FENCE

650

EXIST. PIPE TO REMAIN

N 14° 28' 04" E

I-65

I-65 SOUTHBOUND (ASP.)

I-65 NORTHBOUND (ASP.)

18-ST 15-ST

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 113A

MATCH LINE STA. 1911+00.00 SEE THIS SHEET

FLAG

74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

1915

MATCH LINE STA. 1911+00.00 SEE THIS SHEET

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
KY-OUT-5	2.9	6
KY-OUT-6	6.2	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107290
STATE OF TENNESSEE

I-65
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.1898+00 TO E.O.P.
SCALE: 1"=50'

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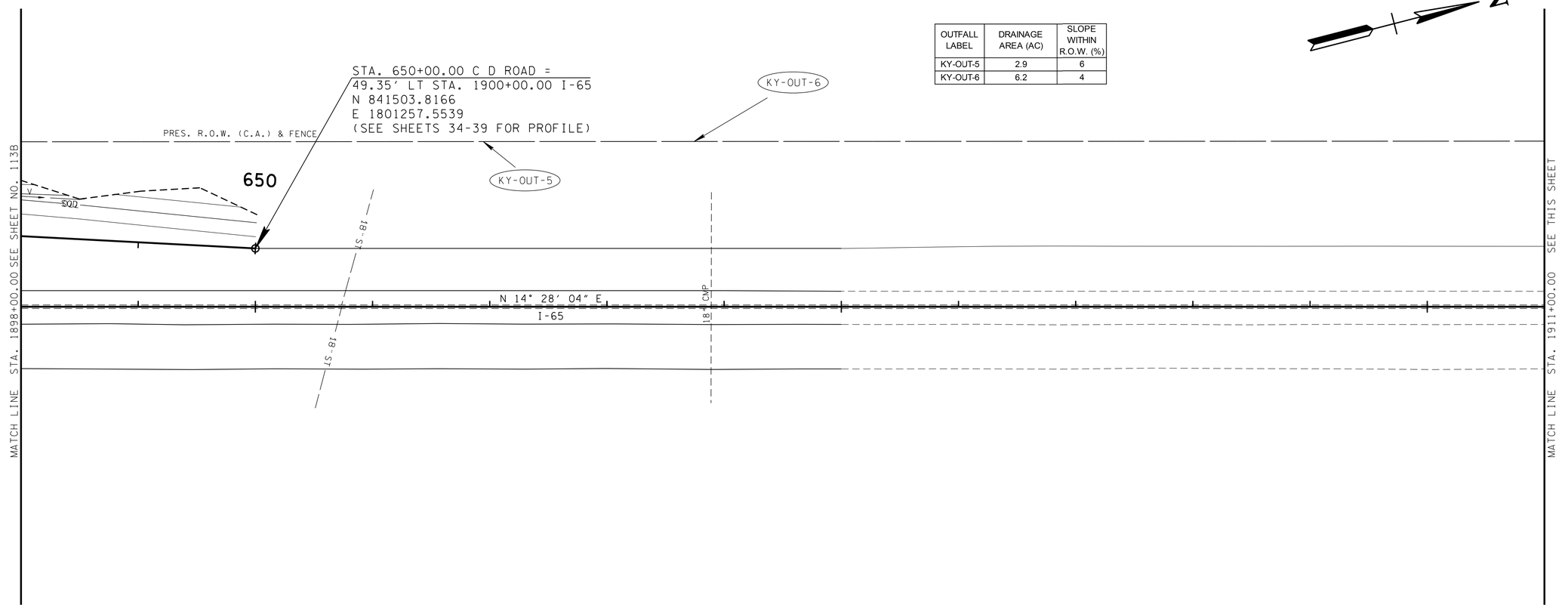
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	68B
CONST.	2014	STP/HPP/NH-I-65-3(113)	114B

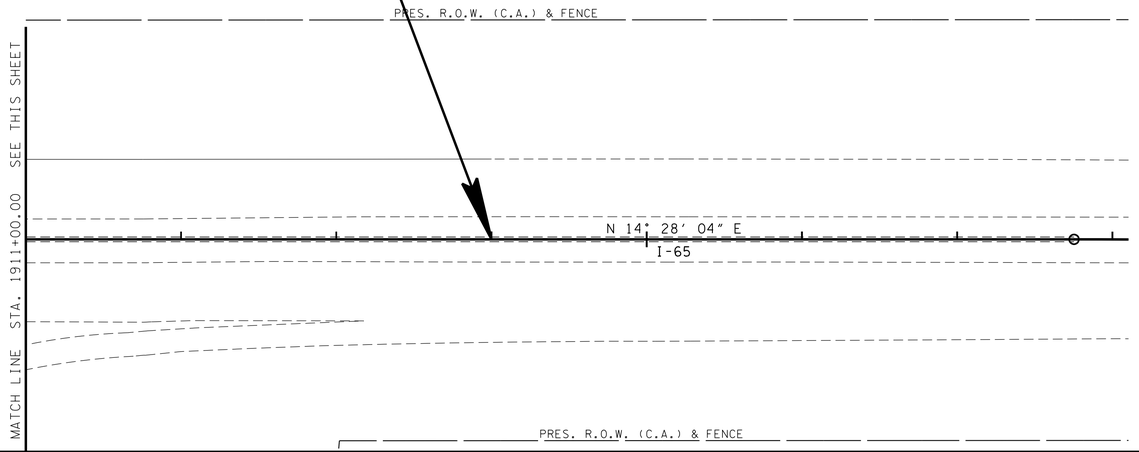
1900 1905 1910

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
KY-OUT-5	2.9	6
KY-OUT-6	6.2	4



74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

1915



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.1898+00 TO E.O.P.
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	69
CONST.	2014	STP/HPP/NH-I-65-3(113)	115

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

305
POND
WOODS
OUT - 11
310
WOODS
IS 309+25.48
SC 312+85.48
PASTURE
PROP. R.O.W.
MATCH LINE STA. 314+00.00 SEE SHEET NO. 116
PRES. R.O.W.
N 36° 30' 58" W
S.R. 109
OUT - 12
PH 1
TENNESSEE GAS PIPELINE CO. EASEMENT (WIDTH VARIES)
75' TENNESSEE GAS PIPELINE CO. EASEMENT
POND
TRAIL

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-11	2.4	2
OUT-12	2.2	2

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF SF	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

B.O.P. TO STA.314+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	69A
CONST.	2014	STP/HPP/NH-I-65-3(113)	115A

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

305
POND

310

OUT - 11
PH 2 & 3

OUT - 12
PH 2 & 3

IS 309+25.48

SC 312+85.48

MATCH LINE STA. 314+00.00 SEE SHEET NO. 116A

PROP. R.O.W.

PRES. R.O.W.

S.R. 109

N 36° 30' 58" W

TENNESSEE GAS PIPELINE CO. EASEMENT (WIDTH VARIES)

75' TENNESSEE GAS PIPELINE CO. EASEMENT

37.5'

POND

TRAIL

N

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-11	2.3	3
OUT-12	4.0	2

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
B.O.P. TO STA.314+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	69B
CONST.	2014	STP/HPP/NH-I-65-3(113)	115B

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

305

310

N

OUT - 11
PH 2 & 3

PROP. R.O.W.

PRES. R.O.W.

MATCH LINE
STA. 314+00.00
SEE SHEET NO. 116B

** TUBE **

** SOCK **

770

710

N 36° 30' 58" W

PRES. R.O.W.

37.5'

37.5'

TENNESSEE GAS PIPELINE CO. EASEMENT
(WIDTH VARIES)

OUT - 12
PH 2 & 3

75' TENNESSEE GAS PIPELINE CO. EASEMENT

PROP. R.O.W.

75' TENNESSEE GAS PIPELINE CO. EASEMENT

PROP. R.O.W.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-11	2.3	3
OUT-12	4.0	2

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

B.O.P. TO STA.314+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	70
CONST.	2014	STP/HPP/NH-I-65-3(113)	116

REV. 09-29-14: ADDED TEMP. CONST. ESMT. FOR TRACT 2.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-13	1.1	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

315

320

325

TRAIL

TEMP. CONST. ESMT.

CS 317+77.63

ST 321+37.63

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 OLD S.R. 109 TIE
N 833632.8824
E 1805434.3376
(SEE SHEET 24 FOR PROFILE)

PROP. R.O.W.

PASTURE

MATCH LINE STA. 314+00.00 SEE SHEET NO. 115

MATCH LINE STA. 327+00.00 SEE SHEET NO. 118

S.R. 109

N 36° 30' 58" W

N 62° 04' 31" W

PC 85+68.92

GRASS

PRES. R.O.W.

OLD S.R. 109 TIE

OUT - 13

S.R. 109
CURVE DC20
PI 315+39.36
N 833,291.5626
E 1,806,078.4555
Δs 25° 33' 53" (LT)
θs 5° 24' 00"
Δc 14° 45' 53" (LT)
Dc 3° 00' 00"
Rc 1,909.86
Lc 492.16
Ts 613.88
Ls 360.00
SE 0.068 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 360

S.R. 109 TIE
CURVE DC24
PI 88+48.71
N 833,941.0042
E 1,805,597.6121
Δ 64° 26' 07" (LT)
D 12° 54' 16"
R 444.00
L 499.33
T 279.79
SE 0.037 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 105

N 27° 55' 09" E

N 36° 30' 58" W

MATCH LINE - S.R. 109 TIE STA. 89+00.00 SEE SHEET NO. 117

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

S.R. 109 PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.314+00 TO STA.327+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	70A
CONST.	2014	STP/HPP/NH-I-65-3(113)	116A

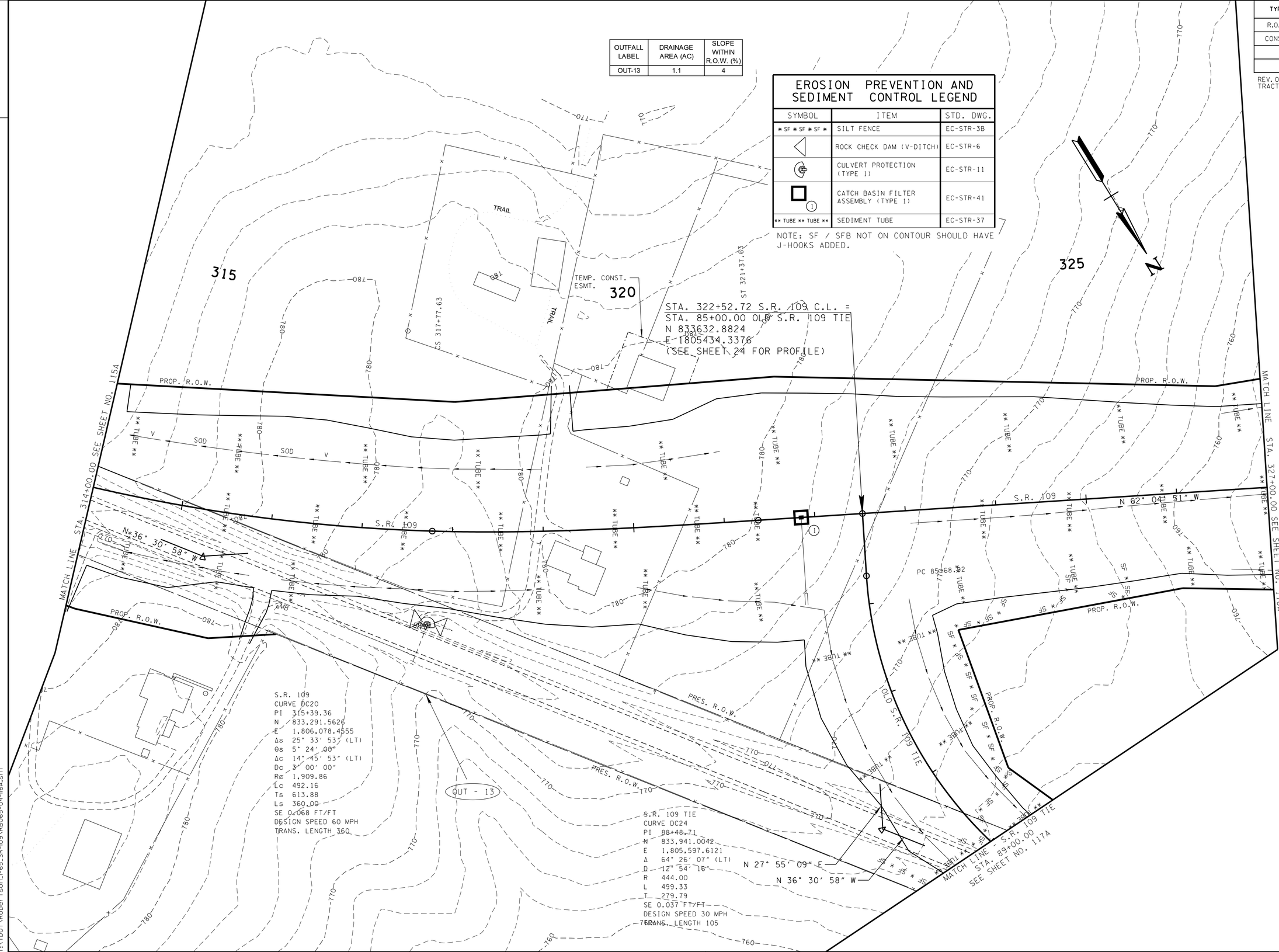
REV. 09-29-14: ADDED TEMP. CONST. ESMT. FOR TRACT 2.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-13	1.1	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.



S.R. 109
CURVE DC20
PI 315+39.36
N 833,291.5626
E 1,806,078.4555
Δs 25° 33' 53" (LT)
θs 5° 24' 00"
Δc 14° 45' 53" (LT)
Dc 3° 00' 00"
Rc 1,909.86
Lc 492.16
Ts 613.88
Ls 360.00
SE 0.068 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 360

S.R. 109 TIE
CURVE DC24
PI 88+48.71
N 833,941.0042
E 1,805,597.6121
Δ 64° 26' 07" (LT)
D 12° 54' 16"
R 444.00
L 499.33
T 279.79
SE 0.037 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 105

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
10-20-14
STATE OF TENNESSEE

S.R. 109 PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.314+00 TO STA.327+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	70B
CONST.	2014	STP/HPP/NH-I-65-3(113)	116B

REV. 09-29-14: ADDED TEMP. CONST. ESMT. FOR TRACT 2.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-13	1.1	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

315

320

325

TEMP. CONST. ESMT.

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 OLD S.R. 109 TIE
N 833632.8824
E 1805434.3376
(SEE SHEET 24 FOR PROFILE)

PROP. R.O.W.

MATCH LINE STA. 314+00.00 SEE SHEET NO. 115B

MATCH LINE STA. 327+00.00 SEE SHEET NO. 118B

N 36° 30' 58" W

N 62° 04' 51" W

PRES. R.O.W.

N 27° 55' 09" E

N 36° 30' 58" W

MATCH LINE - S.R. 109 TIE STA. 89+00.00 SEE SHEET NO. 117B

770 ** TUBE **

760 ** TUBE **

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

S.R. 109 PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.314+00 TO STA.327+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-14	4.6	3

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

TEMP. CONST. EXIT TO BE PLACED AS DIRECTED BY THE ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	71
CONST.	2014	STP/HPP/NH-I-65-3(113)	117

MATCH LINE - S.R. 109 TIE
STA. 89+00.00
SEE SHEET NO. 116

SEE SHEET NO. 118

PROP. R.O.W.

EXIST. 24" CMP TO BE REMOVED

TEMP. CONST. ESMT.

N 36° 30' 58" W

OUT - 14

LIMIT OF CONST.
91+50.00

PASTURE

GRASS

CULTIVATED FIELD

OLD S.R. 109

PRES. R.O.W.

SEWER PUMP STATION

EXIST. CURB INLET BOX

TRAIL

STR-2

NO CONSTRUCTION OR CONSTRUCTION ACTIVITIES SHALL IMPACT STR-2

BLOOMSBURY DRIVE

N

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

S.R. 109 TIE PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.89+00 TO STA.91+50

SCALE: 1"=50'

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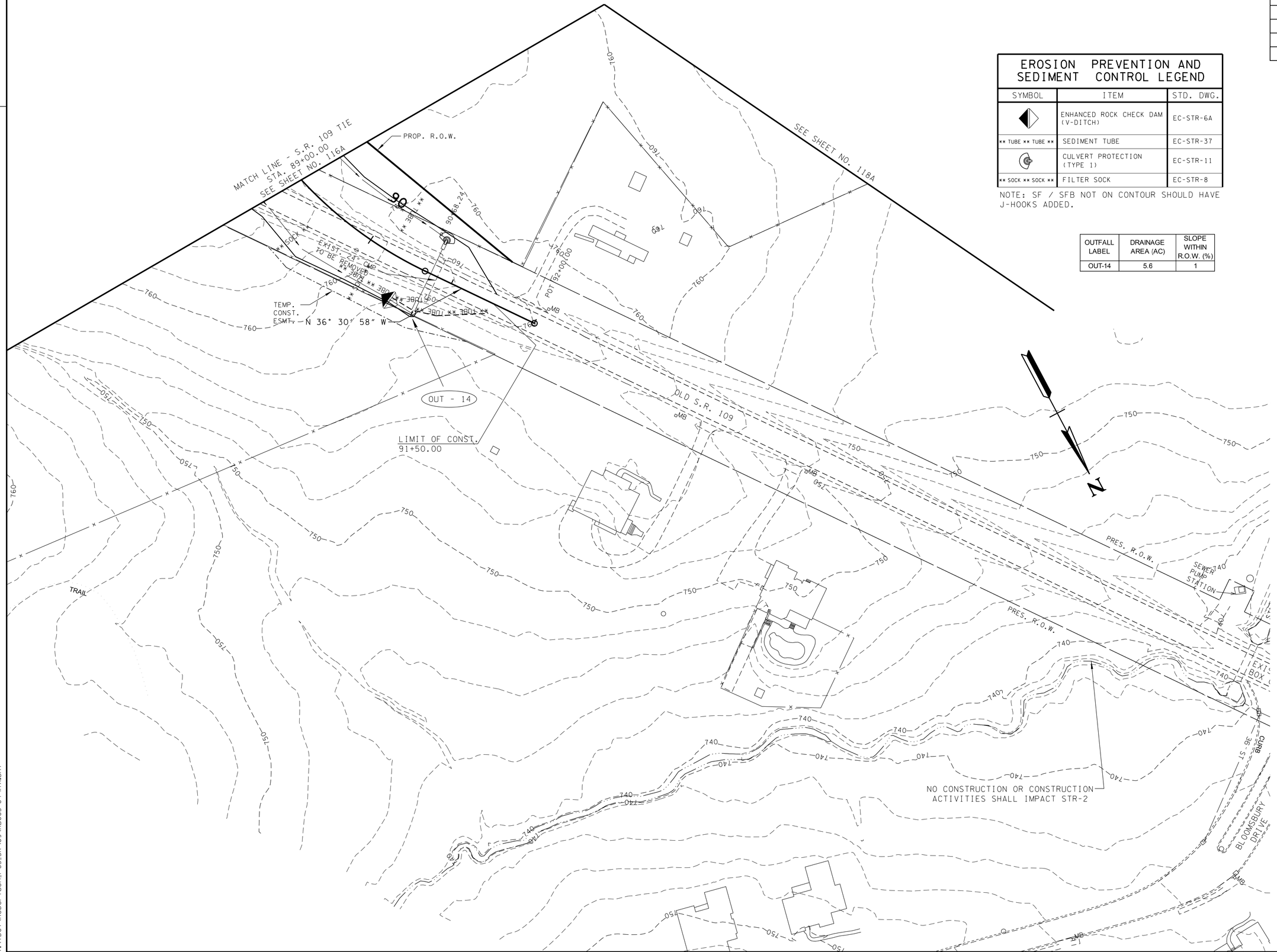
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	71A
CONST.	2014	STP/HPP/NH-I-65-3(113)	117A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-14	5.6	1

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109 TIE PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.89+00 TO STA.91+50
SCALE: 1"=50'

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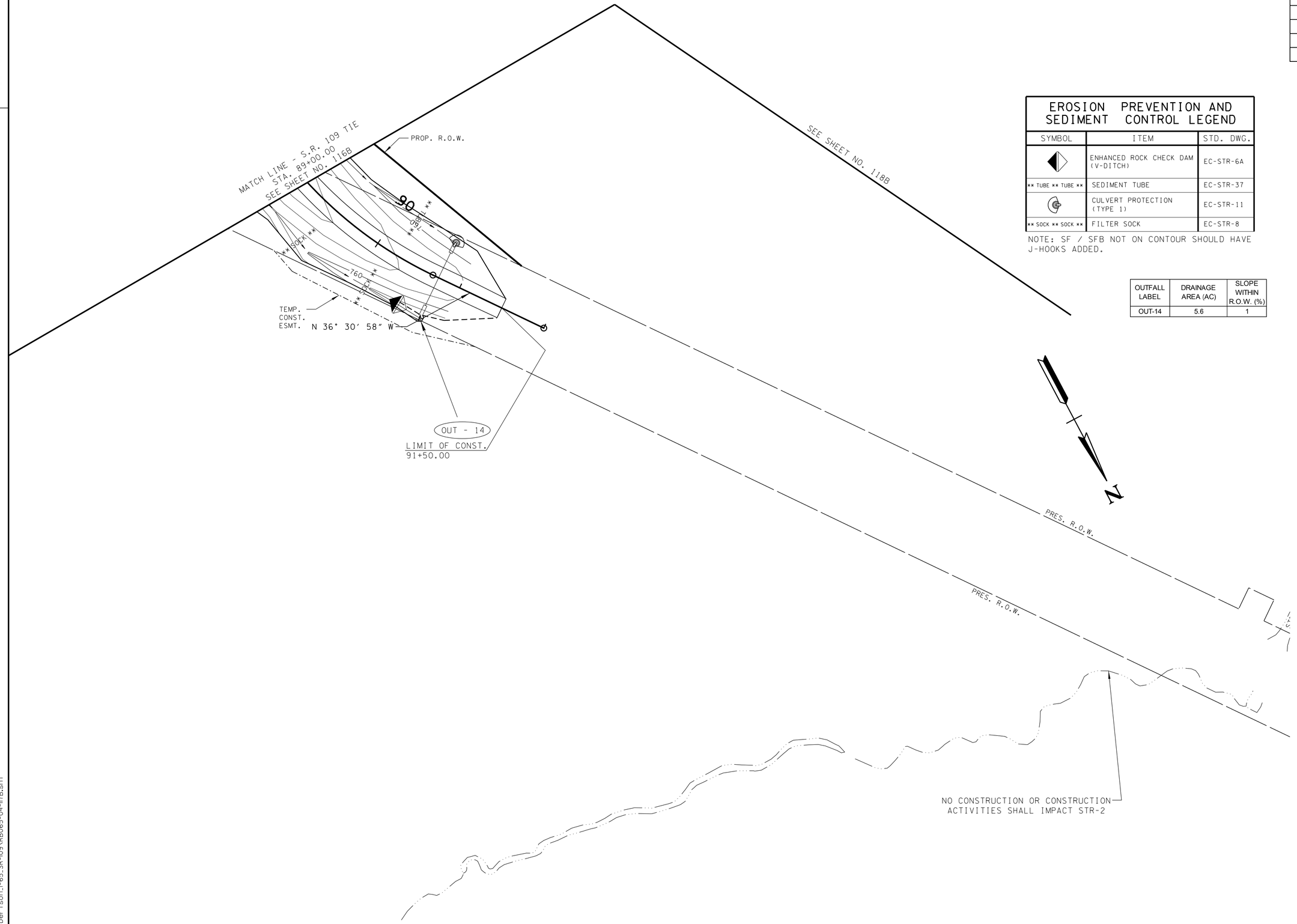
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	71B
CONST.	2014	STP/HPP/NH-I-65-3(113)	117B



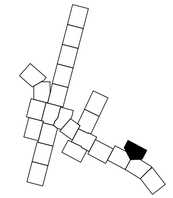
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-14	5.6	1

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

S.R. 109 TIE PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.89+00 TO STA.91+50

SCALE: 1"=50'

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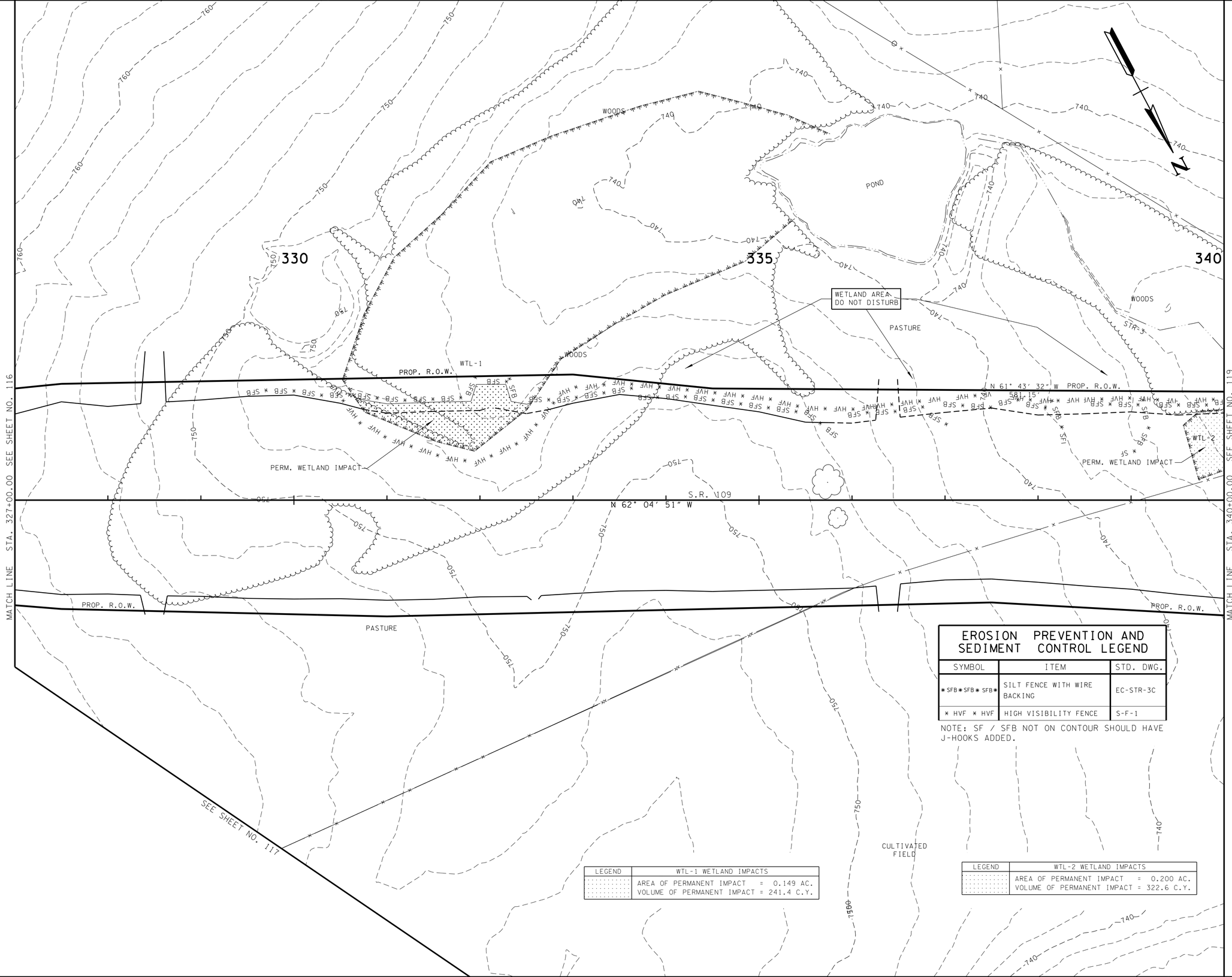
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	72
CONST.	2014	STP/HPP/NH-I-65-3(113)	118



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

LEGEND	WTL-1 WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.149 AC.
	VOLUME OF PERMANENT IMPACT = 241.4 C.Y.

LEGEND	WTL-2 WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.200 AC.
	VOLUME OF PERMANENT IMPACT = 322.6 C.Y.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109 PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.327+00 TO STA.340+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	72A
CONST.	2014	STP/HPP/NH-I-65-3(113)	118A

MATCH LINE STA. 327+00.00 SEE SHEET NO. 116A

MATCH LINE STA. 340+00.00 SEE SHEET NO. 119A

330 335 340

THE AREA OF WETLAND PAST THE SLOPE SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND RESEEDED AS SOON AS POSSIBLE FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES.

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

OUT - 16 PH 2 & 3

OUT - 15 PH 2 & 3

OUT - 17 PH 2 & 3

WETLAND AREA DO NOT DISTURB

WTL-1

WTL-2

STR-3

POND

PROP. R.O.W.

S.R. 109

N 61° 43' 32" W

581.15'

N 62° 04' 51" W

SEE SHEET NO. 117A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	TEMPORARY BERM	EC-STR-27
	TEMPORARY SLOPE DRAIN	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-15	3.6	5
OUT-16	10.8 (7.7 UNDISTRUBED)	6
OUT-17	0.6	3

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN T. LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107209
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.327+00 TO STA.340+00

SCALE: 1"=50'

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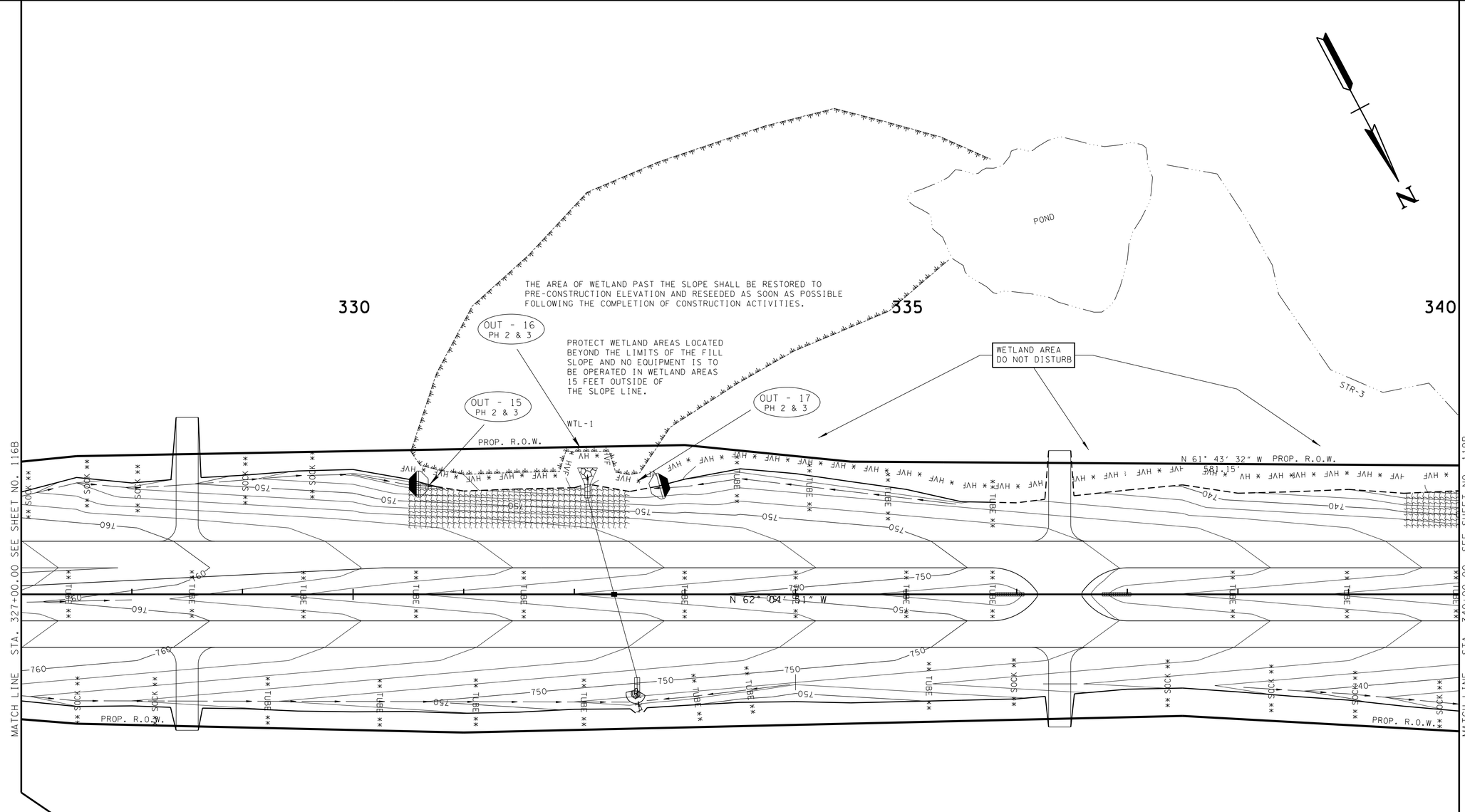
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	72B
CONST.	2014	STP/HPP/NH-I-65-3(113)	118B



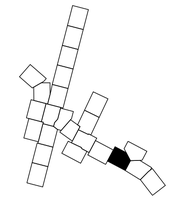
OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-15	3.6	5
OUT-16	10.8 (7.7 UNDISTRUBED)	6
OUT-17	0.6	3

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	EROSION CONTROL BLANKET	EC-STR-34
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.327+00 TO STA.340+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	73
CONST.	2014	STP/HPP/NH-I-65-3(113)	119

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	SEDIMENT FILTER BAG	EC-STR-2
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
	TEMPORARY BERM	EC-STR-27

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-6	0.4	2
OUT-39	0.9	2
OUT-19	5.3	2
OUT-20	2.3	2

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 26-27 FOR PROFILE)

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

SEQUENCE:
PHASE 1:
(1) INSTALL TEMP. DIVERSION CHANNELS AT EACH END OF PROP. CHANNEL CHANGE
(2) DIVERT FLOW INTO TEMP. DIVERSION CHANNEL
(3) CONSTRUCT PROP. CHANNEL CHANGE & STABILIZE
(4) ONCE STABILIZED DIVERT FLOW INTO NEW CHANNEL

SEQUENCE:
(1) INSTALL TEMP. DIVERSION CHANNEL
(2) DIVERT STR. FLOW
(3) BUILD PROP. RCBC IN DRY
(4) STABILIZE INLET & OUTLET DITCHES
(5) RETURN FLOW TO CHANNEL& NEW RCBC& REMOVE TEMP. DIVERSION CHANNEL

LEGEND	WTL-2 WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.208 AC.
	VOLUME OF PERMANENT IMPACT = 335.6 C.Y.

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

MATCH LINE STA. 340+00.00 SEE SHEET NO. 118
MATCH LINE STA. 353+00.00 SEE SHEET NO. 120

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.340+00 TO STA.353+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	73A
CONST.	2014	STP/HPP/NH-I-65-3(113)	119A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
①	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
②	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-19	0.9	7
OUT-20	6.5	3
OUT-22	13.4 (7.8 UNDISTURBED)	7
OUT-23	13.1 (8.8 UNDISTURBED)	2
OUT-24	23.4 (15.0 UNDISTURBED)	3
OUT-37	0.5	1
OUT-38	0.2	1

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 26-27 FOR PROFILE)

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

N 40° 06' 11" W
N 38° 02' 51" W
N 51° 57' 29" E
N 39° 23' 17" W
N 27° 55' 09" E
N 62° 04' 51" W

OUT - 19
OUT - 20
OUT - 22
OUT - 23 PH 2 & 3
OUT - 24 PH 2 & 3
OUT - 37 PH 2 & 3
OUT - 38 PH 2 & 3

INSTALL & STABILIZE CUT DITCH TO ACT AS DIVERSION FOR RUN ON WATER

TEMP. CONST. ESMT.

PROP. R.O.W.
PRES. R.O.W.
S.R. 109
TRAIL
STR-2
STR-3
WTL-2
WWC-6

MATCH LINE STA. 340+00.00 SEE SHEET NO. 118A
MATCH LINE STA. 353+00.00 SEE SHEET NO. 120A

340 345 350 55 15

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 120796
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.340+00 TO STA.353+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	73B
CONST.	2014	STP/HPP/NH-I-65-3(113)	119B

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-19	0.9	7
OUT-20	6.5	3
OUT-22	13.4 (7.8 UNDISTURBED)	7
OUT-23	13.1 (8.8 UNDISTURBED)	2
OUT-24	23.4 (15.0 UNDISTURBED)	3
OUT-37	0.5	1
OUT-38	0.2	1

340 345 350

PROTECT WETLAND AREAS LOCATED BEYOND THE LIMITS OF THE FILL SLOPE AND NO EQUIPMENT IS TO BE OPERATED IN WETLAND AREAS 15 FEET OUTSIDE OF THE SLOPE LINE.

PRES. R.O.W. PRES. R.O.W. N 40° 06' 11" W N 38° 02' 31" W N 39° 23' 17" W 55 STR-2 STR-3 WTL-2 WWC-6 OUT - 19 OUT - 20 OUT - 22 OUT - 23 PH 2 & 3 OUT - 24 PH 2 & 3 OUT - 37 PH 2 & 3 OUT - 38 PH 2 & 3 TEMP. CONST. ESMT. PROP. R.O.W. N 62° 04' 51" W N 51° 57' 29" E N 27° 55' 09" E 15 UNNAMED TRIBUTARY

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 26-27 FOR PROFILE)

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

MATCH LINE STA. 340+00.00 SEE SHEET NO. 118B

MATCH LINE STA. 353+00.00 SEE SHEET NO. 120B

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.340+00 TO STA.353+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	74
CONST.	2014	STP/HPP/NH-I-65-3(113)	120

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 121

MATCH LINE STA. 353+00.00 SEE SHEET NO. 119

MATCH LINE STA. 366+00.00 SEE SHEET NO. 124

MATCH LINE STA. 1136+00.00 SEE SHEET NO. 122

N 39° 23' 17" W 1041.40'

N 40° 20' 57" W

TGT ROAD C.L.

R = 1145.92'

N 35° 37' 20" W

S.R. 41 (U.S. 31 W)

N 25° 19' 17" E

S.R. 109
N 62° 04' 51" W

LAKE SPRINGS ROAD

60 65 355 360 365 1130 1135

GRASS
OPEN FIELD
PASTURE
PROP. R.O.W.
PRES. R.O.W.
EXIST. PIPE TO BE REMOVED
EXIST. PIPE TO BE PLUGGED
SLOPE ESMT.
10' CONST. ESMT.
TEMP. CONST. ESMT. FOR REMOVAL OF IMPROVEMENTS
W.S. 727.67 POND
W.S. 732.00 POND

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

TEMP. CONST. EXIT TO BE PLACED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 353+00 TO STA. 366+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	74A
CONST.	2014	STP/HPP/NH-I-65-3(113)	120A

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 121A

MATCH LINE STA. 353+00.00 SEE SHEET NO. 119A

MATCH LINE STA. 366+00.00 SEE SHEET NO. 124A

MATCH LINE STA. 1136+00.00 SEE SHEET NO. 122A

N 39° 23' 17" W

N 40° 20' 57" W

(G) ROAD

N 35° 37' 20" W

N 25° 19' 17" E

S.R. 109
N 62° 04' 51" W

S.R. 41 (U.S. 31 W)

PROP. R.O.W.

PRES. R.O.W.

10' CONST. ESMT.

SLOPE ESMT.

TEMP. CONST. ESMT. FOR REMOVAL OF IMPROVEMENTS

EXIST. PIPE TO BE REMOVED

EXIST. PIPE TO BE PLUGGED

LAKE SPRINGS ROAD

355 360 365 1130 1135

60 65

W.S. 727.67
POND

W.S. 732.00
POND

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
(C)	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
(D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
(6)	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
(7)	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.353+00 TO STA.366+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	74B
CONST.	2014	STP/HPP/NH-I-65-3(113)	120B

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.

REV. 05-08-14: ADDED 0.536 ACRES OF CONST. ESMT. AROUND THE ENTIRE REMAINDER AREA OF TRACT 12 FOR THE REMOVAL OF THE TRACTS IMPROVEMENTS.

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 121B

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

N 39° 23' 17" W

N 40° 20' 57" W

N 35° 37' 20" W

N 25° 19' 17" E

N 62° 04' 51" W

N 26° 19' 17" E

PRES. R.O.W.

TEMP. CONST. ESMT. FOR REMOVAL OF IMPROVEMENTS

355 360 365 1130 1135

60 65

MATCH LINE STA. 353+00.00 SEE SHEET NO. 119B

MATCH LINE STA. 366+00.00 SEE SHEET NO. 124B

MATCH LINE STA. 1136+00.00 SEE SHEET NO. 122B

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.353+00 TO STA.366+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	75
CONST.	2014	STP/HPP/NH-I-65-3(113)	121

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

POT 1118+33.17

OPEN FIELD

OUT - 25

OUT - 26

GRASS

PRES. R.O.W.

N 25° 19' 17" E

1120

1125

LIMIT OF CONST. 1122+50.00

10' CONST. ESMT.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-25	1.0	2
OUT-26	3.7	2

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

PORTLAND CITY LIMITS

S.R. 41 (U.S. 31W)

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 120

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

S.R. 41
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
S.R. 41
B.O.P. TO STA.1126+50
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	75A
CONST.	2014	STP/HPP/NH-I-65-3(113)	121A

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

POT 1118+33.17

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-25	1.0	2
OUT-26	3.4	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✱SF✱SF✱SF✱	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
✱✱TUBE✱✱TUBE✱✱	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUT - 25
OUT - 26
LIMIT OF CONST. 1122+50.00
10' CONST. ESMT.
10' CONST. ESMT
PRES. R.O.W.
PORTLAND CITY LIMITS
S.R. 41 (U.S. 31 W)
N 25° 19' 17" E
1120
1125
MATCH LINE STA. 1126+50.00 SEE SHEET NO. 120A

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 41
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

S.R. 41
B.O.P. TO STA. 1126+50
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	75B
CONST.	2014	STP/HPP/NH-I-65-3(113)	121B

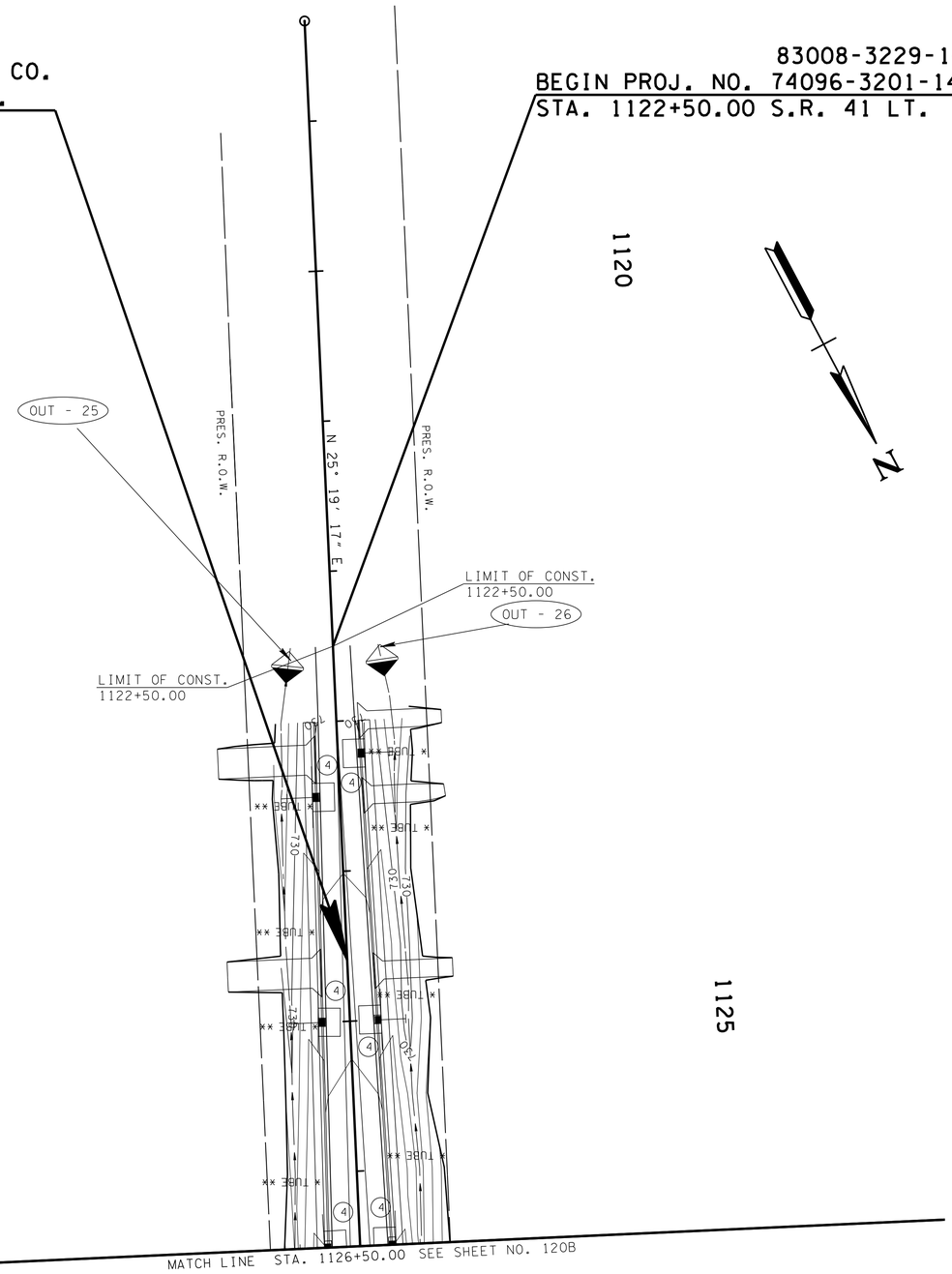
BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

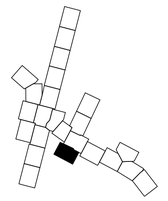
OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-25	1.0	2
OUT-26	3.4	4

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.



UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 41
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
S.R. 41
B.O.P. TO STA.1126+50
SCALE: 1"=50'

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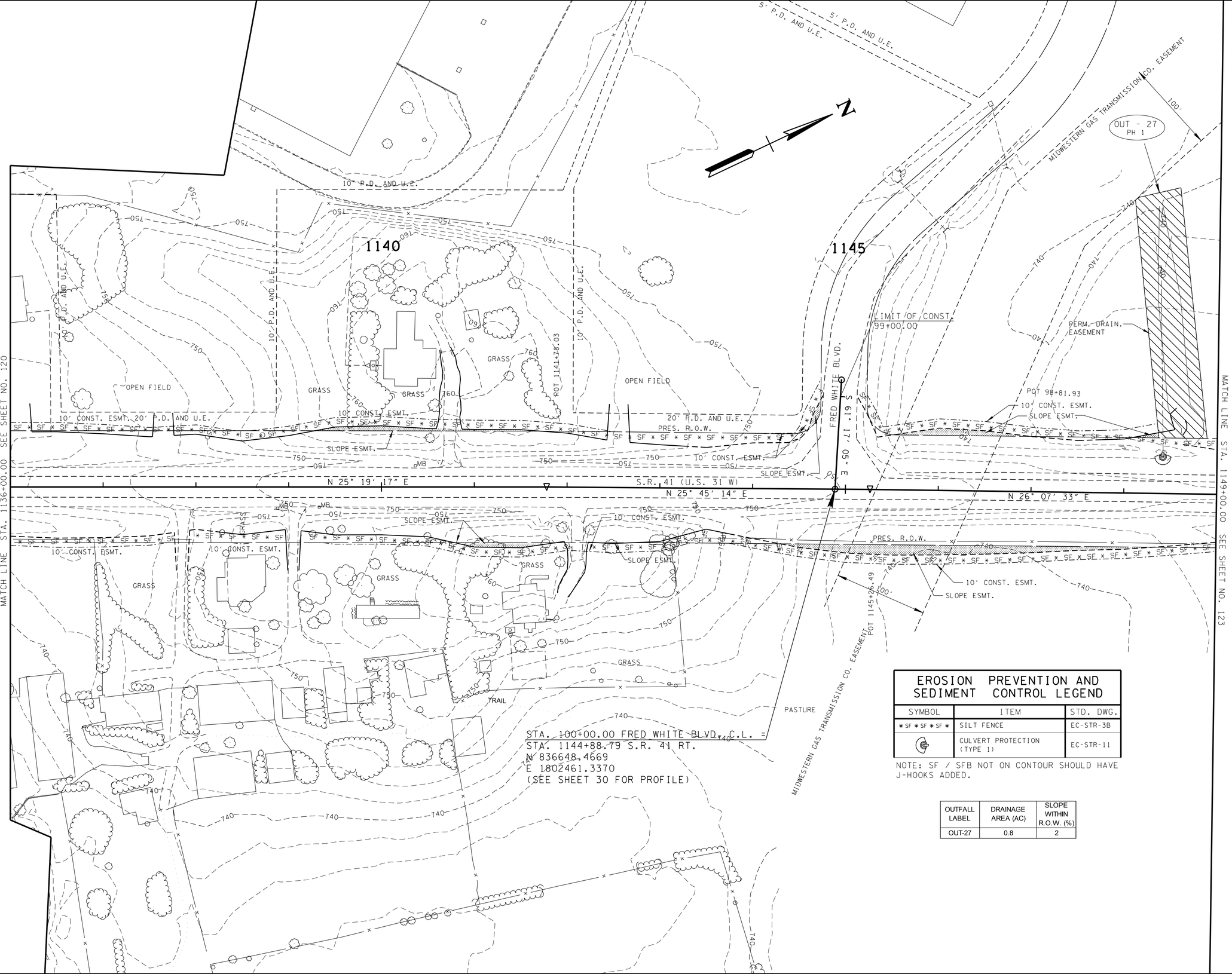
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	76
CONST.	2014	STP/HPP/NH-I-65-3(113)	122



STA. 100+00.00 FRED WHITE BLVD. C.L. =
STA. 1144+88.79 S.R. 41 RT.
N 836648.4669
E 1802461.3370
(SEE SHEET 30 FOR PROFILE)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-27	0.8	2

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107206
STATE OF TENNESSEE

S.R. 41
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
S.R. 41
STA.1136+00 TO STA.1149+00
SCALE: 1"=50'

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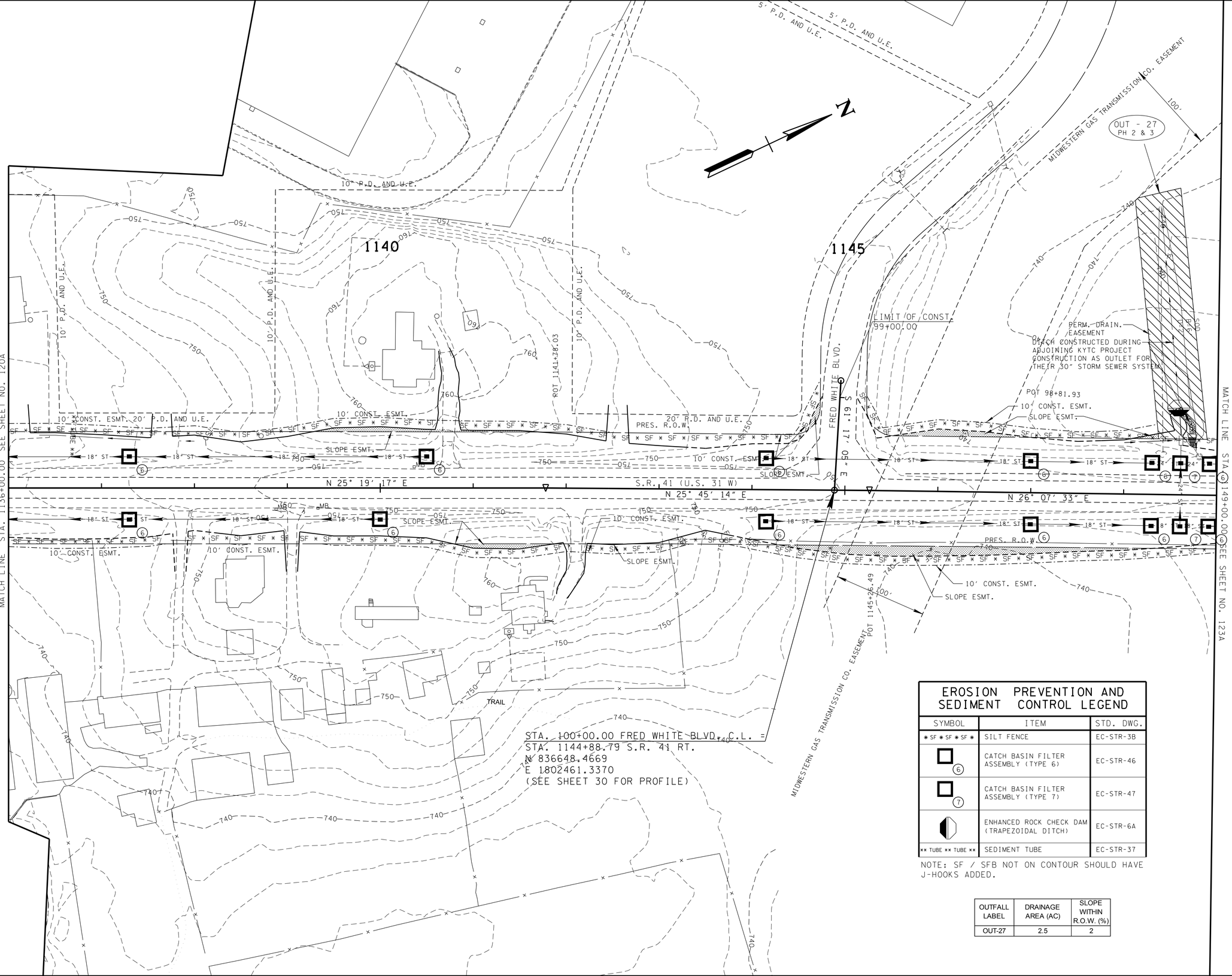
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	76A
CONST.	2014	STP/HPP/NH-I-65-3(113)	122A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-27	2.5	2

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

S.R. 41 PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

S.R. 41
STA. 1136+00 TO STA. 1149+00
SCALE: 1"=50'

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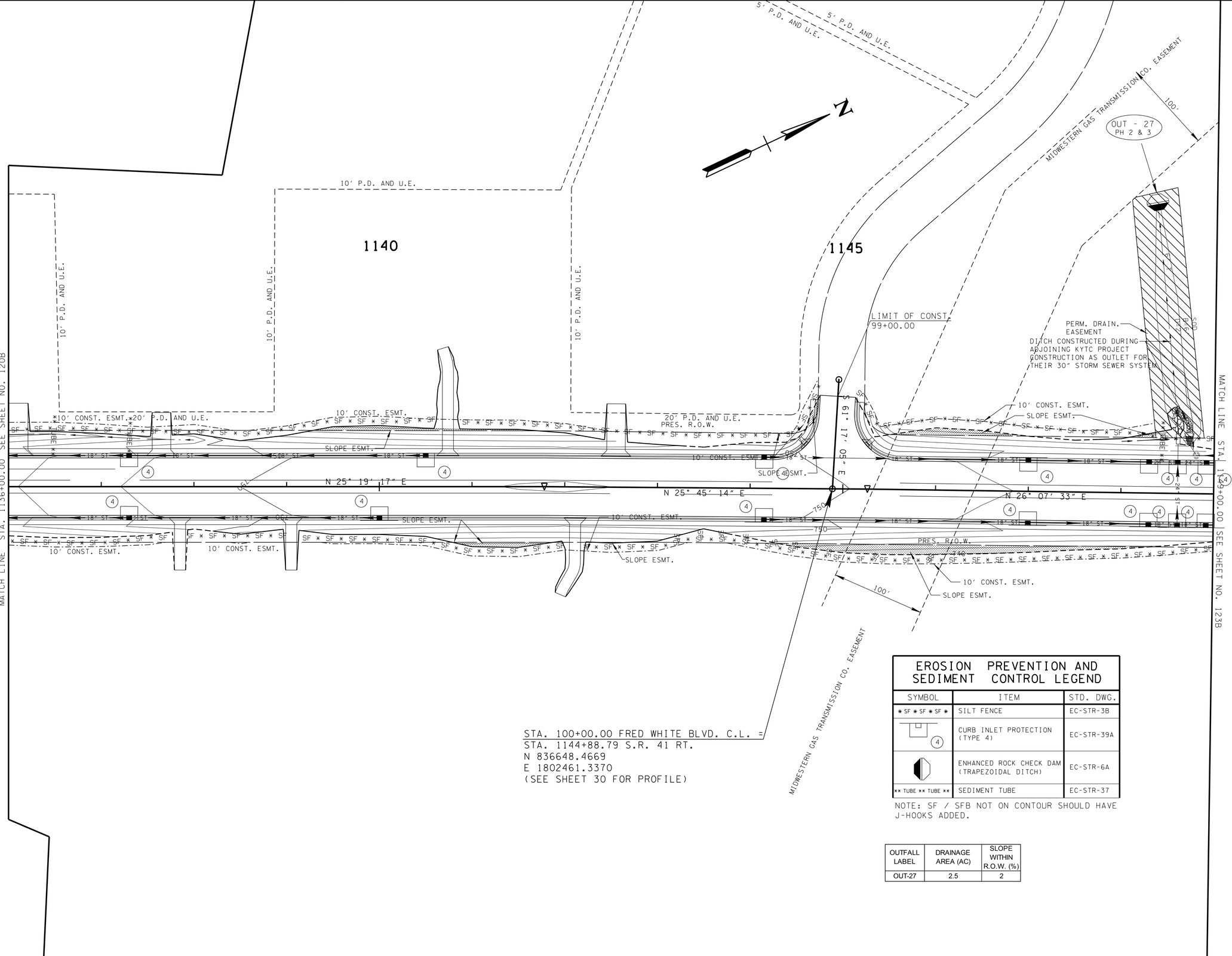
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	76B
CONST.	2014	STP/HPP/NH-I-65-3(113)	122B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
(4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-27	2.5	2

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 41 PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

S.R. 41
STA.1136+00 TO STA.1149+00
SCALE: 1"=50'

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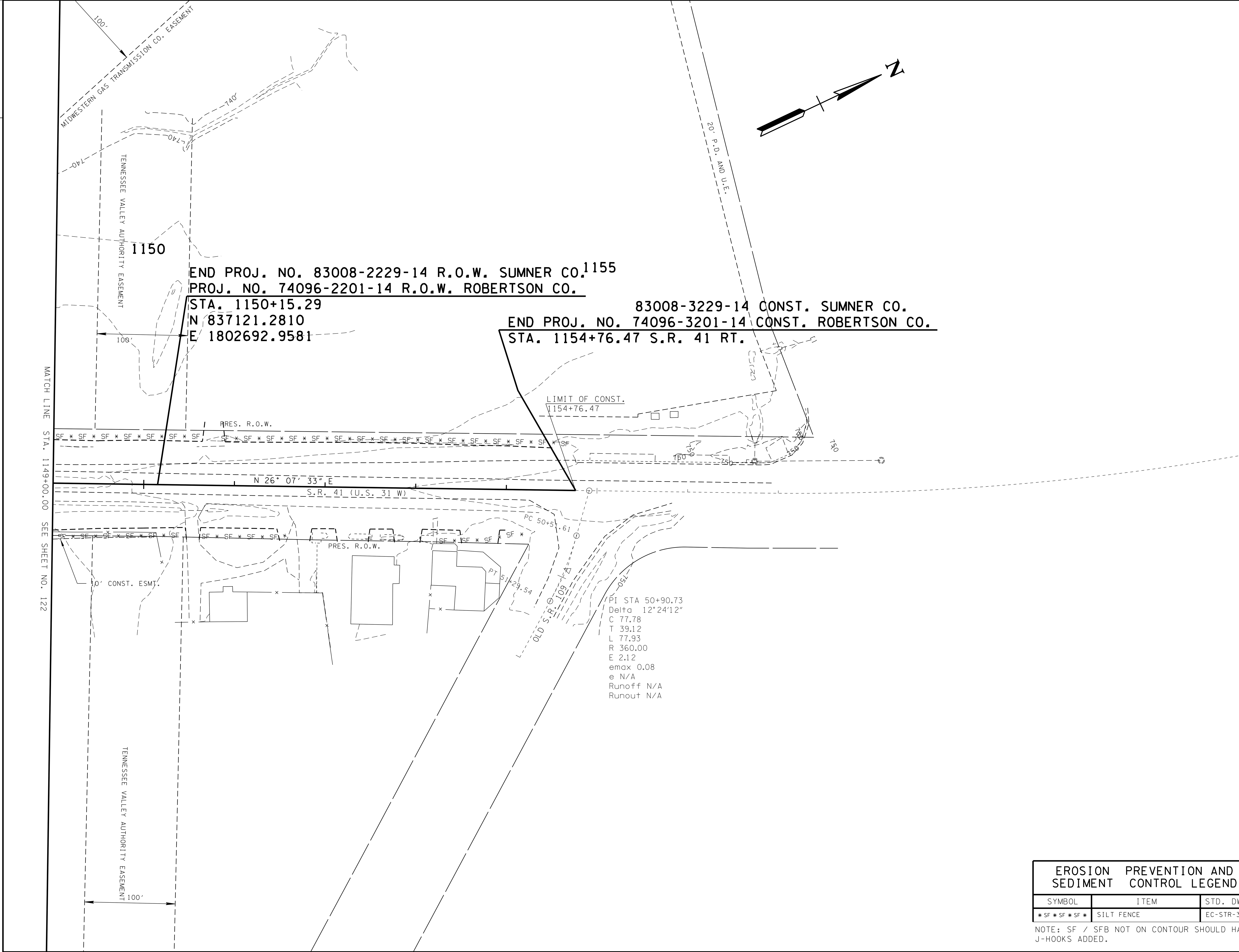
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	77
CONST.	2014	STP/HPP/NH-I-65-3(113)	123



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE REGISTERED ENGINEER No. 107296 STATE OF TENNESSEE AGRICULTURE COMMERCE

S.R. 41
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

S.R. 41
STA.1149+00 TO E.O.P.
SCALE: 1"=50'

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	77A
CONST.	2014	STP/HPP/NH-I-65-3(113)	123A

100'
MIDWESTERN GAS TRANSMISSION CO. EASEMENT
740'
740'
TENNESSEE VALLEY AUTHORITY EASEMENT
1150
100'
END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581
1155
83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.
MH AND 30" STORM SEWER SYSTEM TO BE CONSTRUCTED AS PART OF ADJOINING KYTC PROJECT
LIMIT OF CONST.
1154+76.47
20' P.O. AND U.E.
PRES. R.O.W.
30" ST
24" ST
18" ST
N 26° 07' 33" E
S.R. 41 (U.S. 31 W)
10' CONST. ESMT.
OLD S.R. 109
750
MATCH LINE STA. 1149+00.00 SEE SHEET NO. 122A
TENNESSEE VALLEY AUTHORITY EASEMENT
100'

N

UNOFFICIAL SET
NOT FOR BIDDING

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(6)	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 41
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
S.R. 41
STA. 1149+00 TO E.O.P.
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	77B
CONST.	2014	STP/HPP/NH-I-65-3(113)	123B

100'
MIDWESTERN GAS TRANSMISSION CO. EASEMENT

TENNESSEE VALLEY AUTHORITY EASEMENT

1150

END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581

100'

MATCH LINE STA. 1149+00.00 SEE SHEET NO. 122B

MH AND 30" STORM SEWER SYSTEM TO BE CONSTRUCTED AS PART OF ADJOINING KYTC PROJECT

PRES. R.O.W.

30" ST
24" ST
18" ST

4

N 26° 07' 33" E

PRES. R.O.W.

TENNESSEE VALLEY AUTHORITY EASEMENT

100'

20' P.O. AND U.E.

1155

83008-3229-14 CONST. SUMNER CO.
END PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.

LIMIT OF CONST.
1154+76.47

N

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

S.R. 41
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

S.R. 41
STA.1149+00 TO E.O.P.
SCALE: 1"=50'

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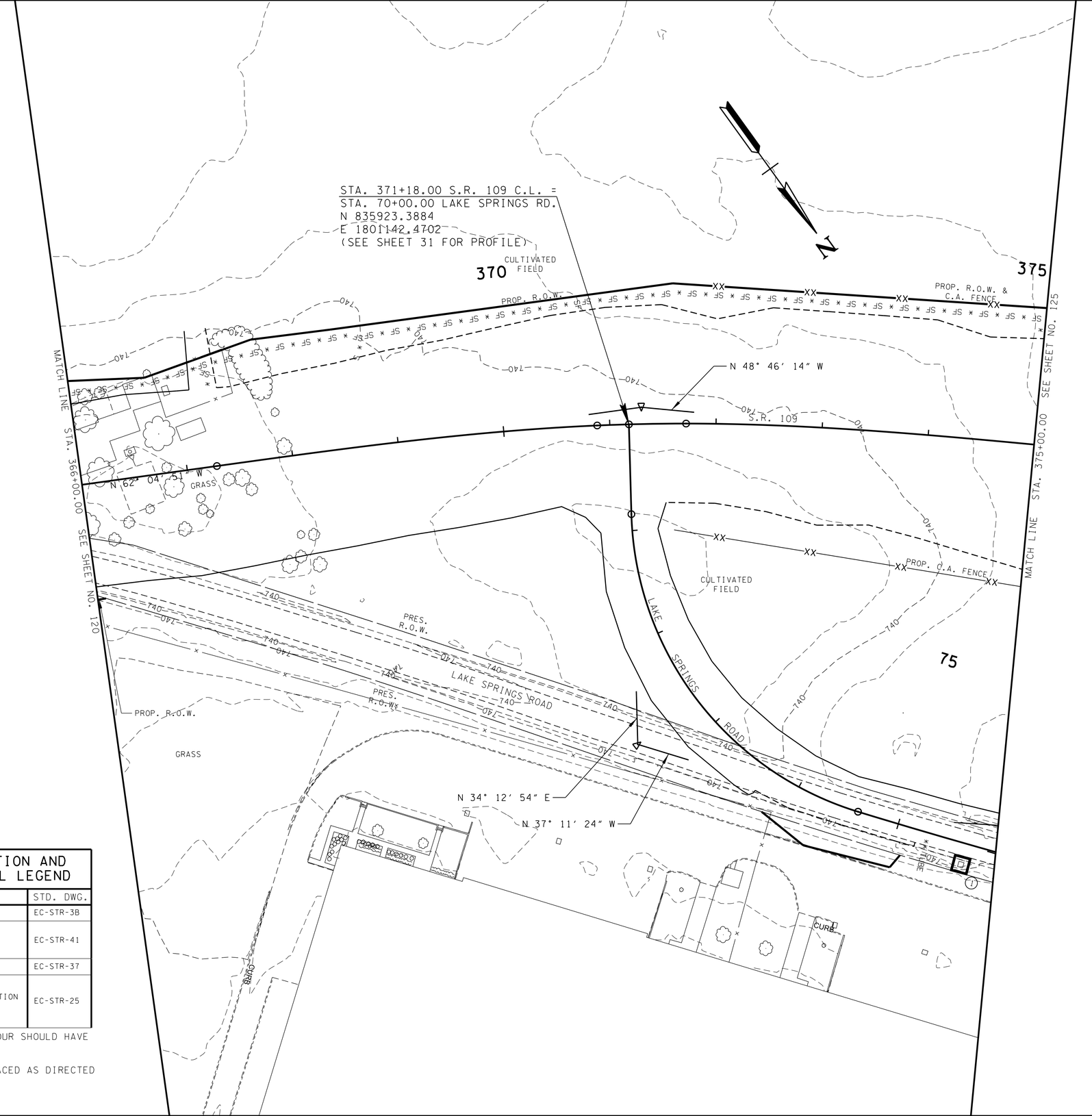
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	78
CONST.	2014	STP/HPP/NH-I-65-3(113)	124



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
×× TUBE ×× TUBE ××	SEDIMENT TUBE	EC-STR-37
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

TEMP. CONST. EXIT TO BE PLACED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.366+00 TO STA.375+00

SCALE: 1"=50'

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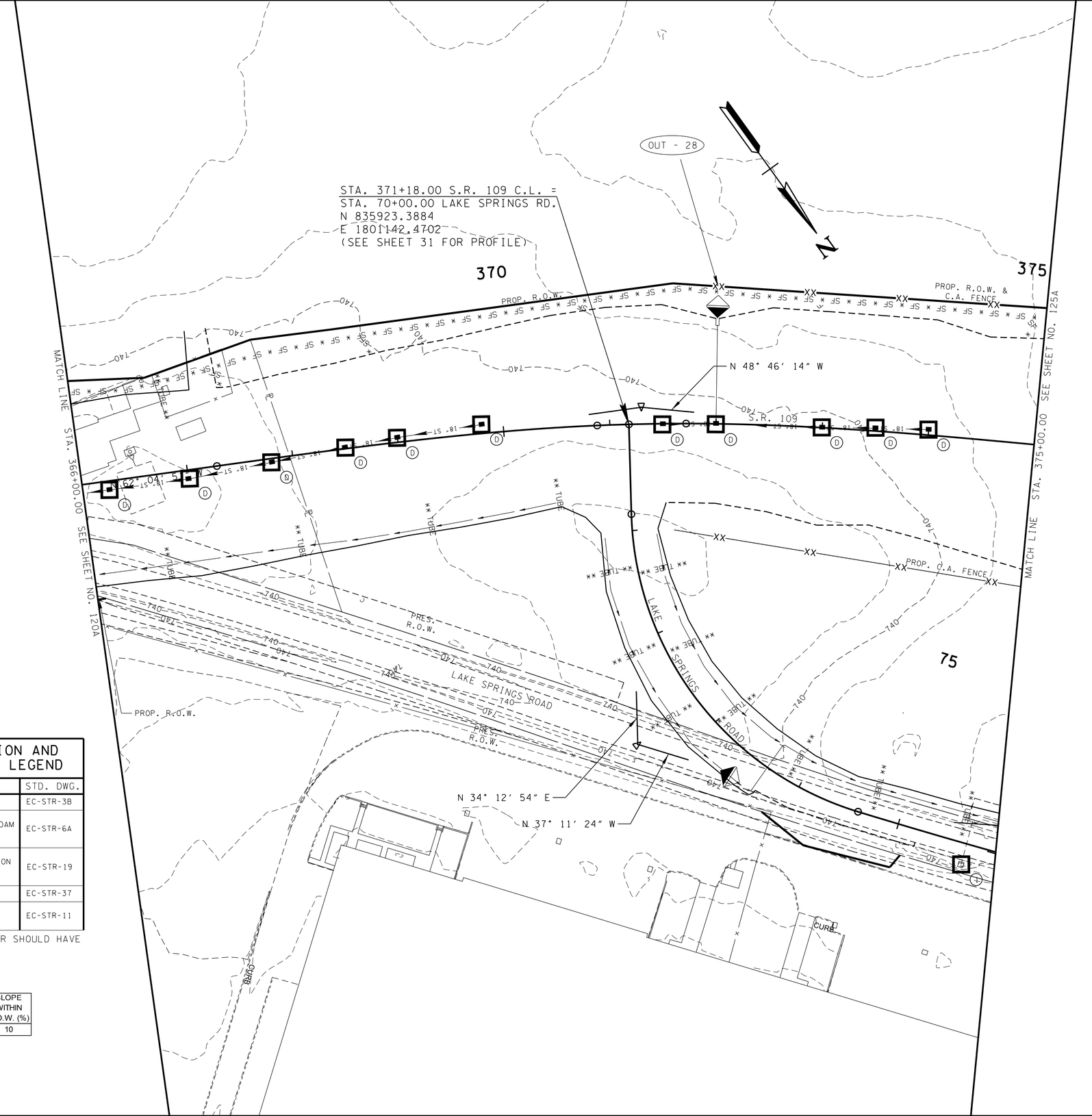
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	78A
CONST.	2014	STP/HPP/NH-I-65-3(113)	124A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-28	0.30	10

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107396
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.366+00 TO STA.375+00

SCALE: 1"=50'

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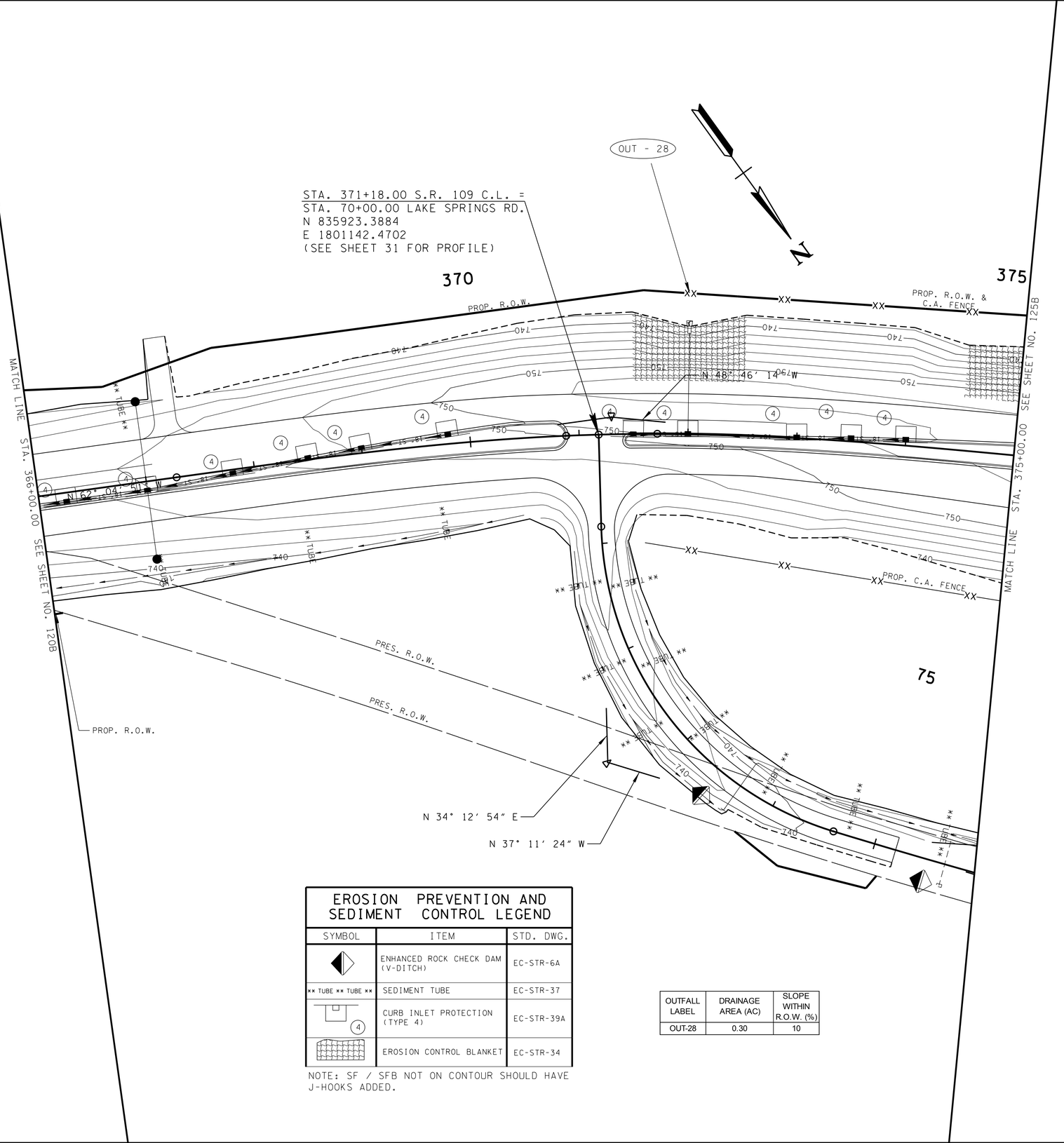
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	78B
CONST.	2014	STP/HPP/NH-I-65-3(113)	124B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-28	0.30	10

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.366+00 TO STA.375+00

SCALE: 1"=50'

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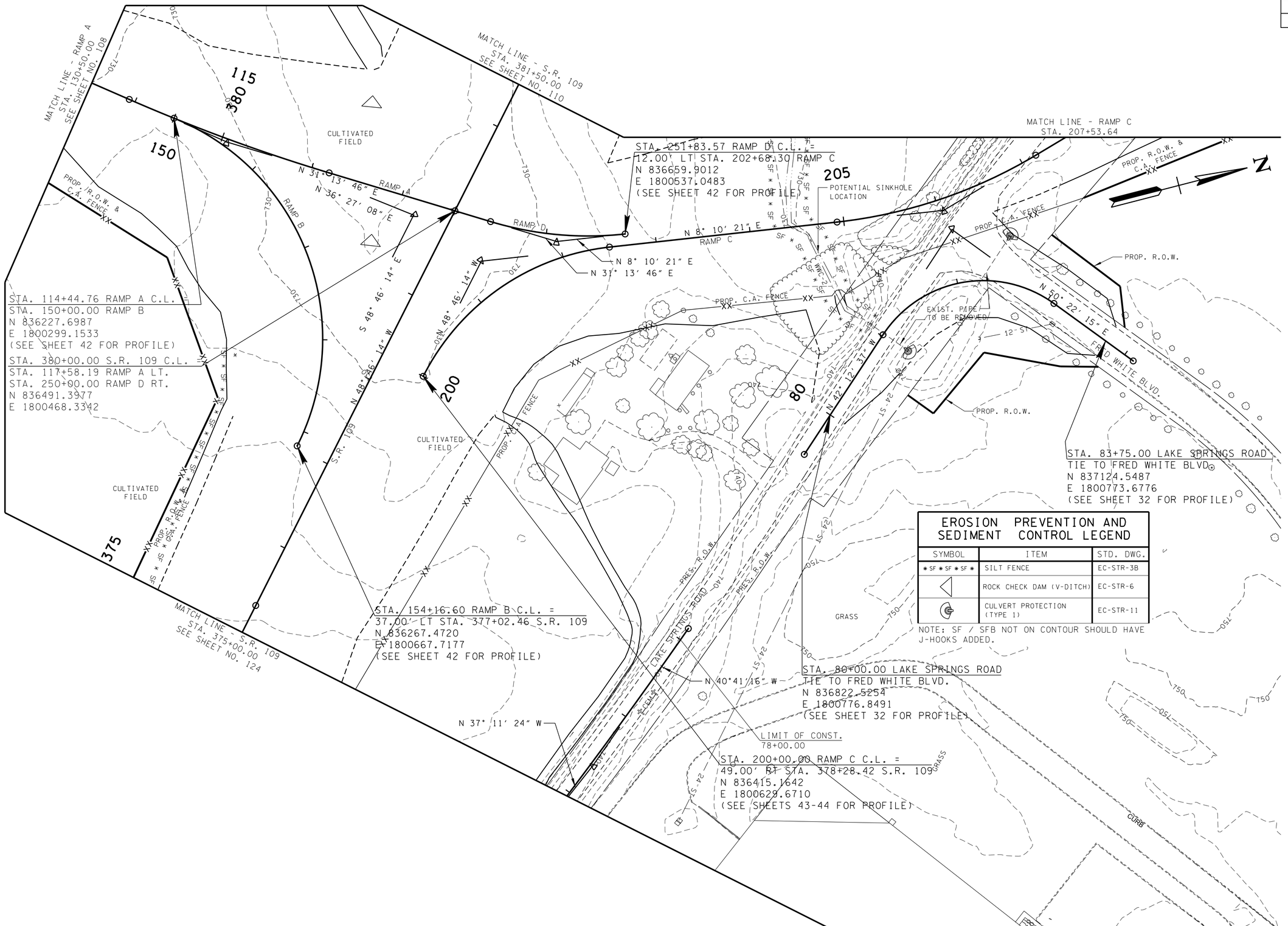
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	79
CONST.	2014	STP/HPP/NH-I-65-3(113)	125



STA. 114+44.76 RAMP A C.L.
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533
(SEE SHEET 42 FOR PROFILE)

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483
(SEE SHEET 42 FOR PROFILE)

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177
(SEE SHEET 42 FOR PROFILE)

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710
(SEE SHEETS 43-44 FOR PROFILE)

STA. 83+75.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776
(SEE SHEET 32 FOR PROFILE)

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491
(SEE SHEET 32 FOR PROFILE)

LIMIT OF CONST.
78+00.00

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.375+00 TO STA.381+50
SCALE: 1"=50'

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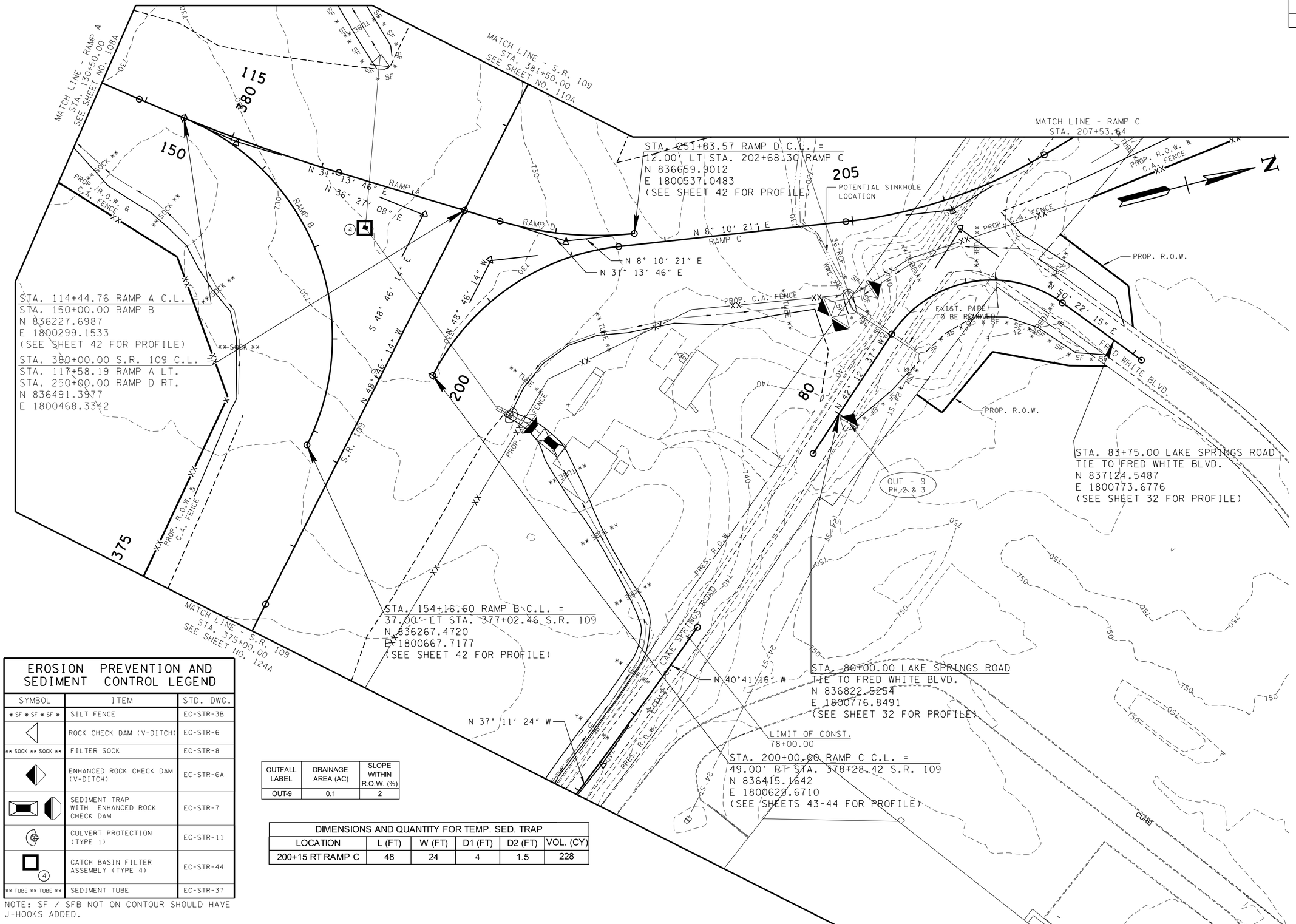
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	79A
CONST.	2014	STP/HPP/NH-I-65-3(113)	125A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
SOCK SOCK	FILTER SOCK	EC-STR-8
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
TUBE TUBE	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-9	0.1	2

DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
200+15 RT RAMP C	48	24	4	1.5	228

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109 PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.375+00 TO STA.381+50

SCALE: 1"=50'

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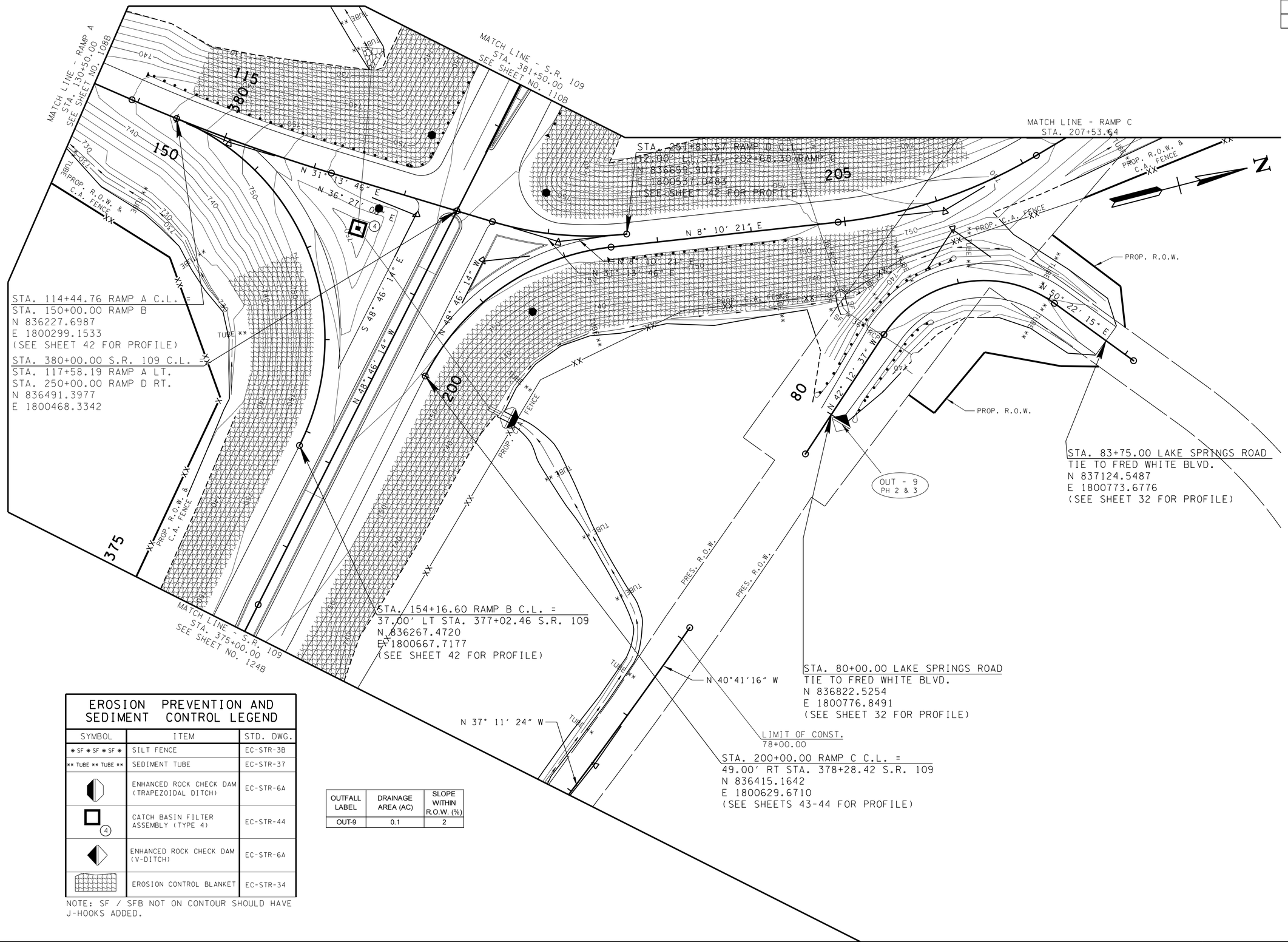
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	79B
CONST.	2014	STP/HPP/NH-I-65-3(113)	125B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
TUBE TUBE TUBE	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-9	0.1	2

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109 PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.375+00 TO STA.381+50
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

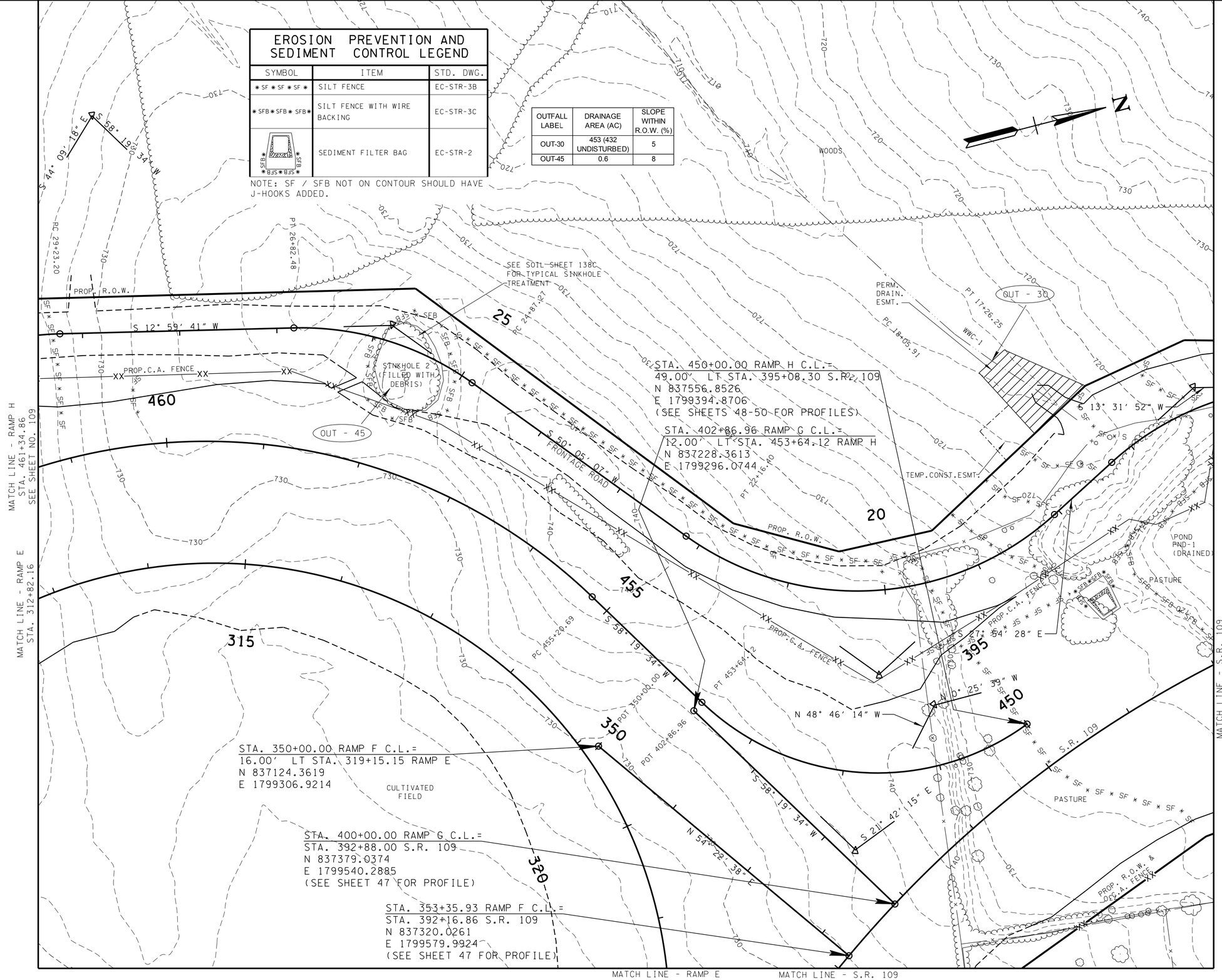
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	80
CONST.	2014	STP/HPP/NH-I-65-3(113)	126

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✱SF✱SF✱SF✱	SILT FENCE	EC-STR-3B
✱SFB✱SFB✱SFB✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	SEDIMENT FILTER BAG	EC-STR-2

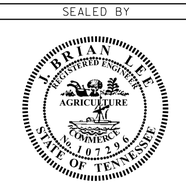
OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-30	453 (432 UNDISTURBED)	5
OUT-45	0.6	8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



S.R. 109
RAMPS E,F,G,H
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.392+00 TO STA.397+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

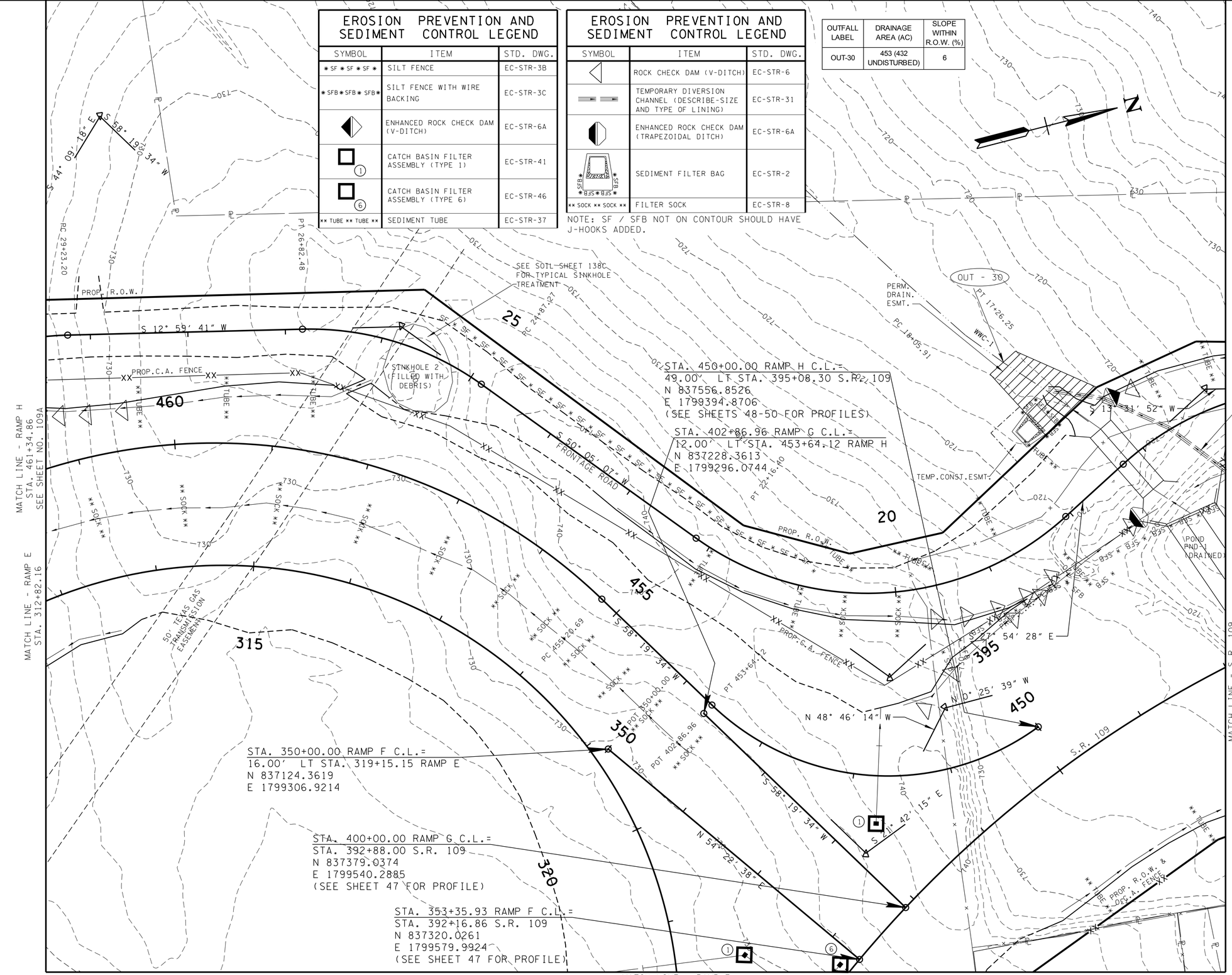
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
* SFB * SFB * SFB * SFB *	SEDIMENT FILTER BAG	EC-STR-2
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-30	453 (432 UNDISTURBED)	6

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	80A
CONST.	2014	STP/HPP/NH-I-65-3(113)	126A



STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706
(SEE SHEETS 48-50 FOR PROFILES)

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885
(SEE SHEET 47 FOR PROFILE)

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924
(SEE SHEET 47 FOR PROFILE)

TEMP. DIV. CHANNEL
(GEOTEXTILE TYPE III)
B=7'
D=7"
CL

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

S.R. 109
RAMPS E,F,G,H
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.392+00 TO STA.397+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

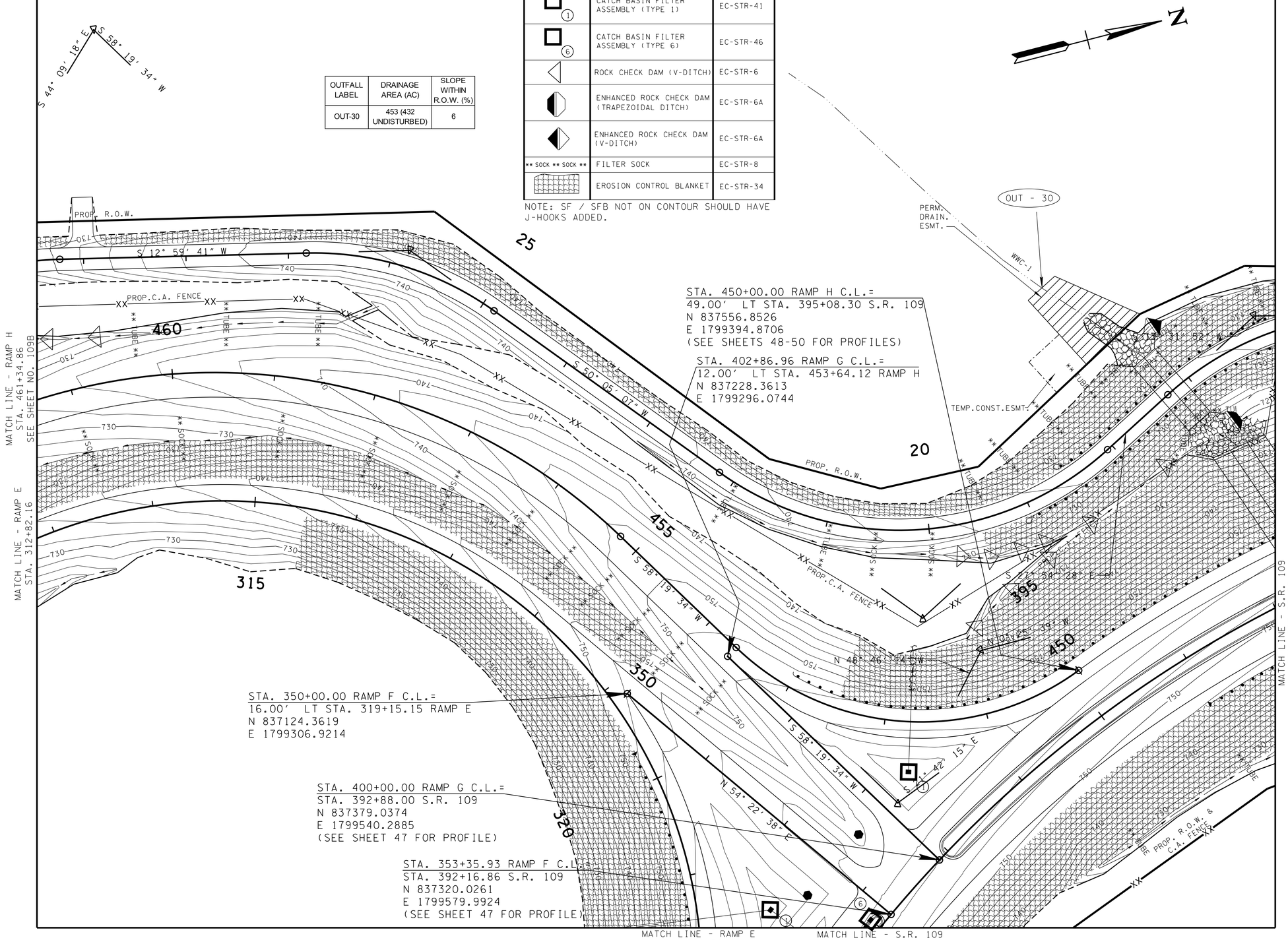
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	80B
CONST.	2014	STP/HPP/NH-I-65-3(113)	126B

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-30	453 (432 UNDISTURBED)	6



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

S.R. 109
RAMPS E,F,G,H
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.392+00 TO STA.397+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	81
CONST.	2014	STP/HPP/NH-I-65-3(113)	127

REV. 12-09-13: UPDATED PROP. R.O.W., TOE OF SLOPES, & REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: REMOVED CUL-DE-SAC ON VAUGHN DRIVE AND UPDATED PROP. R.O.W. RT. STA. 407+00 SR-109.

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT FOR TRACTS 32, & 37.

UNOFFICIAL SET
NOT FOR BIDDING

WOODS
GRASS
CULTIVATED FIELD
EUBANKS ROAD
PROP. R.O.W.
PRES. R.O.W.
PROP. C.A. FENCE
PROP. R.O.W. & C.A. FENCE
PERM. DRAIN. ESMT.
PERM. STORM DRAIN. ESMT.
VAUGHN DRIVE
LAKE SPRINGS ROAD
FRONTAGE ROAD
S.R. 109
SINKHOLE
POND PND-1 (DRAINED)
SEE SOIL SHEET 138C FOR TYPICAL SINKHOLE TREATMENT
LIMIT OF CONST. 33+60.00
MATCH LINE - S.R. 109 STA. 397+00.00 SEE SHEET NO. 126
MATCH LINE STA. 409+00.00 SEE SHEET NO. 128
MATCH LINE SEE SHEET NO. 111

OUT - 6, OUT - 31, OUT - 32, OUT - 33, OUT - 34, OUT - 46, OUT - 47, OUT - 48

S 86° 51' 36" E
POT 26+30.38
S 13° 31' 52" W
S 4° 46' 12" W
S 85° 55' 52" E
N 54° 39' 48" E
N 20° 00' 19" W
N 0° 25' 39" W
N 48° 48' 24" W

PC 15+08.15
PT 13+08.65
PC 12+62.54
PT 27+73.29
PC 26+49.45
PC 31+12.77
PT 43+19.40
PC 406+43.09
ST 401+67.28
POT 34+12.79

405

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770
(SEE SHEETS 53 & 54 FOR PROFILE)
STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.49 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2495
(SEE SHEET 33 FOR PROFILE)

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-6	403.4	1
OUT-31	0.1	2
OUT-32	0.5	5
OUT-33	0.0	4
OUT-34	0.2	2
OUT-46	1.1	7
OUT-47	0.8	9
OUT-48	0.8	12

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF	SILT FENCE	EC-STR-3B
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

TEMP. CONST. EXIT TO BE PLACED AS DIRECTED BY THE ENGINEER.

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CAMERON
NO. 107290
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 397+00 TO STA. 409+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	81A
CONST.	2014	STP/HPP/NH-I-65-3(113)	127A

REV. 12-09-13: UPDATED PROP. R.O.W., TOE OF SLOPES, & REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: REMOVED CUL-DE-SAC AND SEDIMENT TUBE ON VAUGHN DRIVE AND UPDATED PROP. R.O.W. RT. STA. 407+00 SR-109.

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT FOR TRACTS 32, & 37.

N

OUT - 32

OUT - 33

EUBANKS ROAD

S 86° 51' 36" E
POT 26+30.38

PC 15+08.15

PC 26+49.45

PT 13+08.65

PC 12+62.54

PT 27+73.29

PROP. R.O.W.

15

S 13° 31' 52" W

FRONTAGE ROAD

PROP. C.A. FENCE

400

S 4° 46' 12" W

S 85° 55' 52" E

405

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770
(SEE SHEETS 53 & 54 FOR PROFILE)
STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.49 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2495
(SEE SHEET 33 FOR PROFILE)

MATCH LINE
STA. 409+00.00 SEE SHEET NO. 128A

TEMP. DIV. CHANNEL
(GEOTEXTILE TYPE III)
B=7'
D=3.4'
CLASS A-1 RIPRAP

S.R. 109

MATCH LINE - S.R. 109
STA. 397+00.00 SEE SHEET NO. 126A

SINKHOLE

POND
PND-II
(DRAINED)

SEE SOIL SHEET 138C
FOR TYPICAL SINKHOLE
TREATMENT

PRES. R.O.W.

PC 406+43.09

S 85° 55' 52" E

PC 31+12.77

PROP. R.O.W.

PROP. R.O.W. & C.A. FENCE

PROP. R.O.W.

ST 401+67.82

PERM. DRAIN. ESMT.

N 54° 39' 48" E

PT 33+19.40

EUBANKS ROAD

VAUGHN DRIVE

PRES. R.O.W.

POT 34+12.23

LIMIT OF CONST.
33+60.00

OUT - 6

OUT - 31

OUT - 34

LAKE SPRINGS ROAD

N 20° 00' 19" W

N 0° 25' 39" W

N 48° 48' 24" W

SCARIFY, ADD TOPSOIL & SEED

MATCH LINE SEE SHEET NO. 111A

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-6		
OUT-31	0.1	9
OUT-32	0.3	7
OUT-33	0.1	4
OUT-34	0.1	7

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SF SF SF SF	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
TUBE TUBE	SEDIMENT TUBE	EC-STR-37
SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
SOCK SOCK	FILTER SOCK	EC-STR-8

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 397+00 TO STA. 409+00
SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	81B
CONST.	2014	STP/HPP/NH-I-65-3(113)	127B

REV. 12-09-13: UPDATED PROP. R.O.W., TOE OF SLOPES, & REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: REMOVED CUL-DE-SAC FROM VAUGHN DRIVE AND UPDATED PROP. R.O.W RT. STA. 407+00 SR-109.

REV. 04-02-14: ADDED PRIVATE DRIVE AND 12' X 6' RCBC SOUTH OF LAKE SPRINGS ROAD TIE TO S. DETOUR ROAD SERVING TRACTS 32, 36, & 37.

REV. 08-26-14: UPDATED DRAINAGE EASEMENT FOR TRACTS 32, & 37.

N

OUT - 32

OUT - 33

S 86° 51' 36" E

405

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770
(SEE SHEETS 53 & 54 FOR PROFILE)
STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.49 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2495
(SEE SHEET 33 FOR PROFILE)

400

S 13° 31' 52" W

S 4° 46' 12" W

S 85° 55' 52" E

N 0° 25' 39" W

N 48° 48' 28" E

N 54° 39' 48" E

S 85° 55' 52" E

N 20° 00' 19" W

PROP. R.O.W.

PRES. R.O.W.

PROP. C.A. FENCE

PROP. R.O.W. & C.A. FENCE

PROP. R.O.W.

PERM. DRAIN. ESMT.

PERM. DRAIN. ESMT.

OUT - 6

OUT - 31

OUT - 34

L.IMIT OF CONST. 33+60.00

MATCH LINE - S.R. 109 STA. 397+00.00 SEE SHEET NO. 126B

MATCH LINE STA. 409+00.00 SEE SHEET NO. 128B

MATCH LINE SEE SHEET NO. 111B

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-6		
OUT-31	0.1	9
OUT-32	0.3	7
OUT-33	0.1	4
OUT-34	0.1	7

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	EROSION CONTROL BLANKET	EC-STR-34

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 397+00 TO STA. 409+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	82
CONST.	2014	STP/HPP/NH-I-65-3(113)	128

REV. 12-09-13: UPDATED PROP. R.O.W. REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED PERM. DRAIN. ESMT. LT. STA. 420+80. ADDED FLD. ENT. RT. STA. 414+56.

410 415 420

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

STA. 409+00.00 SEE SHEET NO. 127

MATCH LINE

OUT - 35A
OUT - 35B
OUT - 35C
OUT - 35D
OUT - 35E
OUT - 35F
OUT - 35G
OUT - 35H
OUT - 35
OUT - 36
OUT - 18 PH 1

GRASS
GRAVEL
CURB
PROP. R.O.W.
PRES. R.O.W.
VAUGHN DRIVE
SF * SF * SF * SF
** TUBE ** TUBE **
FLAG
INV. 714.60
PY 410+38.03
N 48° 48' 24" W

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-18	1.0	3
OUT-35	236.5 (215.6 UNDISTURBED)	1
OUT-35A	1.9	3
OUT-35B	0.1	0
OUT-35C	0.4	3
OUT-35D	0.5	2
OUT-35E	0.2	0
OUT-35F	0.2	1
OUT-35G	0.1	2
OUT-35H	0.5	0
OUT-36	12.9	2

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

S.R. 109
PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 409+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	82A
CONST.	2014	STP/HPP/NH-I-65-3(113)	128A

REV. 12-09-13: UPDATED PROP. R.O.W. REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED PERM. DRAIN. ESMT. LT. STA. 420+80. ADDED FLD. ENT. RT. STA. 414+56.

410 415 420

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

MATCH LINE STA. 409+00.00 SEE SHEET NO. 127A

OUT - 35"I" | OUT - 35B | OUT - 35C | OUT - 35D | OUT - 35E | OUT - 35F | OUT - 35G | OUT - 35H | OUT - 35

EXIST. TO REMAIN TOP-727.69 INV-725.05 INV-724.98

EXIST. TO REMAIN TOP-725.28 INV-722.81 INV-722.79

PRES. R.O.W.

VAUGHN DRIVE

FLAG FLAG FLAG

INV-714.60

CURB | GRAVEL | TUBE | 18" ST | 36" ST | SF * SF * SF

N 48° 48' 24" W

PT 410+38.03

OUT - 36

OUT - 35J PH 2 & 3

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-35	236.5 (215.6 UNDISTURBED)	1
OUT-35B	0.1	0
OUT-35C	0.4	3
OUT-35D	0.5	2
OUT-35E	0.2	0
OUT-35F	0.2	1
OUT-35G	0.1	2
OUT-35H	0.5	0
OUT-35"I"	1.6	3
OUT-35J	17.1	3
OUT-36	12.0	2

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SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

S.R. 109
PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 409+00 TO E.O.P.
SCALE: 1"=50'

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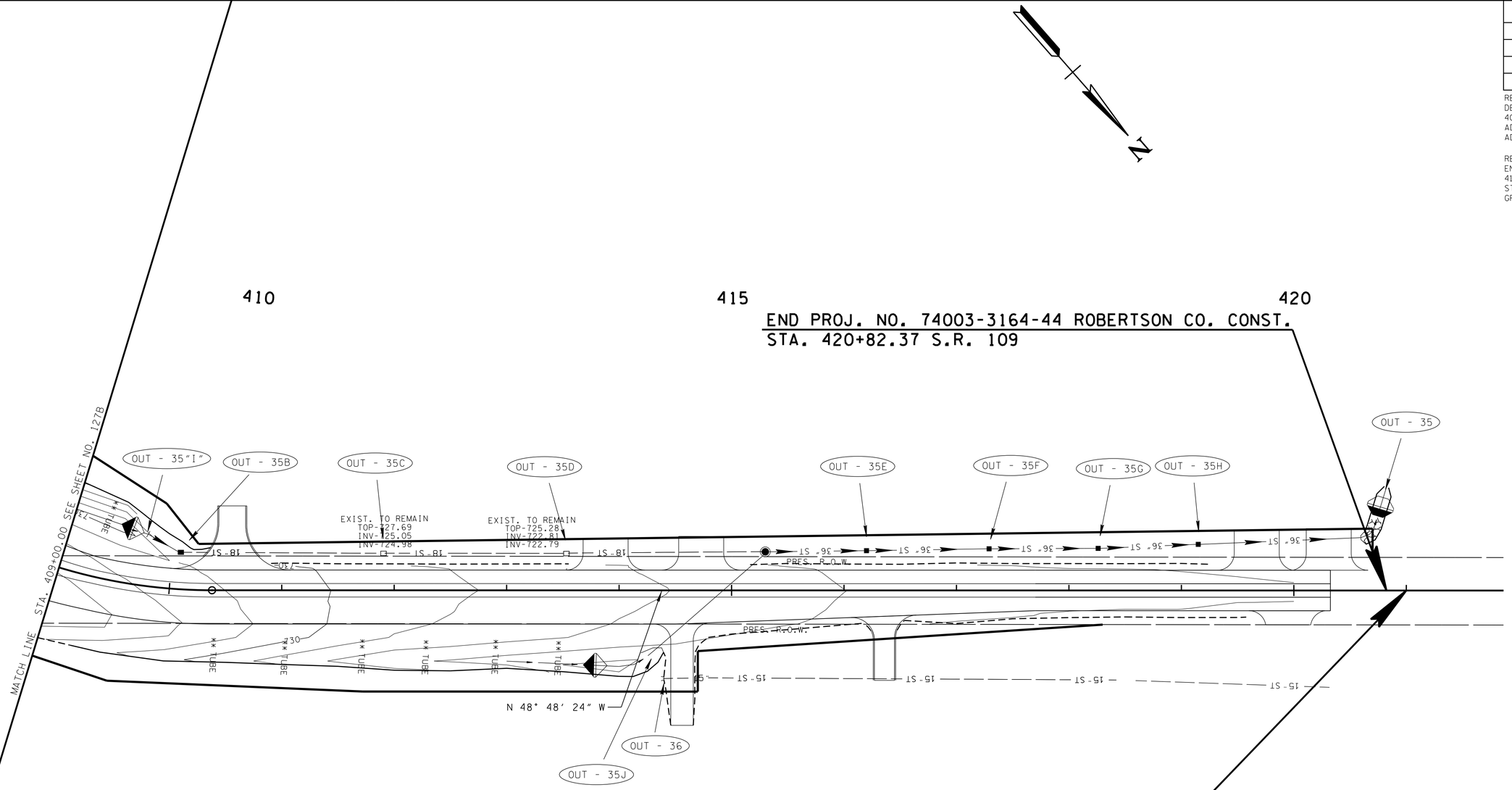
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	82B
CONST.	2014	STP/HPP/NH-I-65-3(113)	128B

REV. 12-09-13: UPDATED PROP. R.O.W. REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED PERM. DRAIN. ESMT. LT. STA. 420+80. ADDED FLD. ENT. RT. STA. 414+56.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.



END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
◆	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
◐	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A

NOTE: SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-35	236.5 (215.6 UNDISTURBED)	1
OUT-35B	0.1	0
OUT-35C	0.4	3
OUT-35D	0.5	2
OUT-35E	0.2	0
OUT-35F	0.2	1
OUT-35G	0.1	2
OUT-35H	0.5	0
OUT-35"I"	1.6	3
OUT-35J	17.1	3
OUT-36	12.0	2

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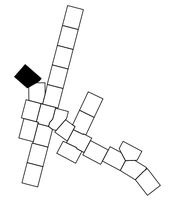
NOT FOR BIDDING



SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107209
STATE OF TENNESSEE

S.R. 109
PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 409+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

   IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

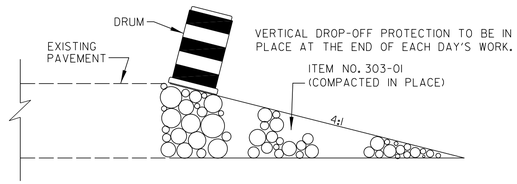
C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.



VERTICAL DROP-OFF PROTECTION DETAIL

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132A

TRAFFIC CONTROL QUANTITIES - ROBERTSON CO SR 109 / I-65 - 74003-3164-44

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SIGN SIZE S.F.	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	12					
712-01	TRAFFIC CONTROL	LS	0.20					
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	30440					
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	847					
712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR	EACH	733					
712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	1522					
712-05.01	WARNING LIGHTS (TYPE A)	EACH	120					
712-06	SIGNS (CONSTRUCTION)	S.F.	1	30	30	72" X 60"	E5-1	EXIT
712-06	SIGNS (CONSTRUCTION)	S.F.	1	12	12	48" X 36"	E5-2	EXIT OPEN
712-06	SIGNS (CONSTRUCTION)	S.F.	0	8	0	48" X 24"	G20-1	ROAD WORK NEXT 2 MILES
712-06	SIGNS (CONSTRUCTION)	S.F.	8	8	64	48" X 24"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	S.F.	4	4.5	18	36" x 18"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	S.F.	2	6	12	48" X 18"	M4-10	DETOUR ARROW LEFT
712-06	SIGNS (CONSTRUCTION)	S.F.	2	5	10	24" X 30"	M4-9	DETOUR (STRAIGHT ARROW)
712-06	SIGNS (CONSTRUCTION)	S.F.	1	5	5	24" X 30"	M4-9	DETOUR (LEFT ARROW)
712-06	SIGNS (CONSTRUCTION)	S.F.	2	12.5	25	60" X 60" X 60"	R1-2	YIELD
712-06	SIGNS (CONSTRUCTION)	S.F.	2	35	70	120" X 42"	R4-1(MOD)	DO NOT PASS IN RIGHT LANE
712-06	SIGNS (CONSTRUCTION)	S.F.	14	10	140	48" X 30"	R11-2	ROAD CLOSED
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	SPEC5	MERGE NOW
712-06	SIGNS (CONSTRUCTION)	S.F.	1	32	32	96" X 48"	TN-55A	TDOT CONSTRUCTION RECORD-A-COMMENT
712-06	SIGNS (CONSTRUCTION)	S.F.	4	16	64	48" X 48"	TN-64	GROOVED PAVEMENT
712-06	SIGNS (CONSTRUCTION)	S.F.	3	16	48	48" X 48"	W1-4	REVERSE CURVE LT
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" x 36"	W1-4	REVERSE CURVE LT
712-06	SIGNS (CONSTRUCTION)	S.F.	6	16	96	48" X 48"	W1-4	TWO LANE SHIFT LEFT
712-06	SIGNS (CONSTRUCTION)	S.F.	8	16	128	48" X 48"	W1-4	TWO LANE SHIFT RIGHT
712-06	SIGNS (CONSTRUCTION)	S.F.	6	16	96	48" X 48"	W1-4B(MOD)	LANE SHIFT 1/2 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W1-4B(MOD)	LANE SHIFT AHEAD
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W3-2S	YIELD AHEAD SYMBOL
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W4-1	RAMP MERGE ARROW
712-06	SIGNS (CONSTRUCTION)	S.F.	7	16	112	48" X 48"	W4-2	MERGE RT SYMBOL
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" x 36"	W6-3	TWO WAY TRAFFIC
712-06	SIGNS (CONSTRUCTION)	S.F.	2	4.5	9	36" X 18"	W7-3AP	NEXT 1 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	4.5	9	36" X 18"	W7-3AP	NEXT 0.5 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	4	16	64	48" X 48"	W20-1	ROAD WORK 1 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-1	ROAD WORK 1/2 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	3	9	27	36" x 36"	W20-1	ROAD WORK 1000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" x 36"	W20-1	ROAD WORK 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-1	ROAD WORK 2 MILES
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" x 36"	W20-1	ROAD WORK 500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	5	16	80	48" X 48"	W20-1	ROAD WORK AHEAD
712-06	SIGNS (CONSTRUCTION)	S.F.	6	9	54	36" X 36"	W20-1	ROAD WORK AHEAD
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" x 36"	W20-2	DETOUR 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" x 36"	W20-4	ONE LANE ROAD 1000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT LANE CLOSED 1 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT LANE CLOSED 1/2 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT LANE CLOSED 2000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT LANE CLOSED 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT 2 LANES CLOSED 1/2 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT 2 LANES CLOSED 1 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" x 36"	W20-7	FLAGGER SYMBOL
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W21-5	RIGHT SHOULDER CLOSED 1500 FT
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W21-5	RIGHT SHOULDER CLOSED
712-06	SIGNS (CONSTRUCTION)	S.F.	4	16	64	48" X 48"	W21-5	LEFT SHOULDER CLOSED 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	1	16	16	48" X 48"	W21-5	LEFT SHOULDER CLOSED
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W21-5	BOTH SHOULDERS CLOSED
712-06	SIGNS (CONSTRUCTION)	S.F.	1	16	16	48" X 48"	W21-5	BOTH SHOULDERS CLOSED 1500 FEET
712-06.01	VERTICAL PANELS	S.F.	2926					
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	210					
712-08.03	ARROW BOARD (TYPE C)	EACH	8					
712-09.01	REMOVABLE PAVEMENT MARKING	L.F.	18310					
712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	139297					
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2					
TOTAL					**1880**			

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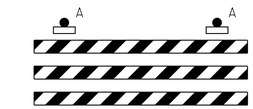

TYPE III BARRICADE
w/ TYPE A
WARNING LIGHTS

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TABULATED QUANTITIES

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132B

TRAFFIC CONTROL QUANTITIES - SUMNER CO SR 109 - 83001-3143-44

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SIGN SIZE S.F.	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	2					
712-01	TRAFFIC CONTROL	LS	0.20					
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	260					
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	50					
712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	13					
712-05.01	WARNING LIGHTS (TYPE A)	EACH	10					
712-06	SIGNS (CONSTRUCTION)	S.F.	3	4.5	13.5	36" X 18"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	S.F.	1	6	6	48" X 18"	M4-10L,R	DETOUR (INSIDE ARROW)
712-06	SIGNS (CONSTRUCTION)	S.F.	3	10	30	48" X 30"	R11-2	ROAD CLOSED
712-06	SIGNS (CONSTRUCTION)	S.F.	1	12.5	12.5	60" X 30"	R11-4	ROAD CLOSED - TO THRU TRAFFIC
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W3-4	BE PREPARED TO STOP
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK AHEAD
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 1 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" X 36"	W20-1	ROAD WORK 1/2 MILE
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	3	9	27	36" X 36"	W20-1	ROAD WORK 1000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	4	9	36	36" X 36"	W20-7	FLAGGER (SYMBOL)
712-06.01	VERTICAL PANELS	S.F.	64					
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40					
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1					
TOTAL					188			

TRAFFIC CONTROL QUANTITIES - SIMPSON CO., KY I-65 - 74003-3168-44

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SIGN SIZE S.F.	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	2					
712-01	TRAFFIC CONTROL	LS	0.20					
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	2254					
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	145					
712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR	EACH	20					
712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	113					
712-06	SIGNS (CONSTRUCTION)	S.F.	2	30	60	72" X 60"	E5-1	EXIT
712-06	SIGNS (CONSTRUCTION)	S.F.	2	12	24	48" X 36"	E5-2	EXIT OPEN
712-06	SIGNS (CONSTRUCTION)	S.F.	2	8	16	48" X 24"	G20-1	ROAD WORK NEXT 2 MILES
712-06	SIGNS (CONSTRUCTION)	S.F.	2	8	16	48" X 24"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	S.F.	2	35	70	120" X 42"	R4-1(MOD)	DO NOT PASS IN RIGHT LANE
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	SPEC5	
712-06	SIGNS (CONSTRUCTION)	S.F.	1	32	32	96" X 48"	TN-55A	TDOT CONS
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W1-4	
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W4-2	
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-1	
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-1	
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" x 36"	W20-1	R
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-1	
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIG
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGH
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT
712-06	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT
712-07	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT 2 LANES CLOSED 1/2 MILE
712-07	SIGNS (CONSTRUCTION)	S.F.	2	16	32	48" X 48"	W20-5	RIGHT 2 LANES CLOSED 1 MILE
712-08.03	ARROW BOARD (TYPE C)	EACH	1					
712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	11057					
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1					
716-08.33	HYDROBLAST REMOVAL OF PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	2					
TOTAL					620			

TRAFFIC CONTROL QUANTITIES - S.R. 41 SUMNER CO. - 83008-3229-14

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SIGN SIZE S.F.	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	4					
712-01	TRAFFIC CONTROL	LS	0.2					
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1351					
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	32					
712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	68					
712-05.01	WARNING LIGHTS (TYPE A)	EACH	10					
712-06	SIGNS (CONSTRUCTION)	S.F.	4	4.5	18	36" X 18"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	S.F.	1	5	5	24" X 30"	M4-9	DETOUR (LEFT ARROW)
712-06	SIGNS (CONSTRUCTION)	S.F.	1	5	5	24" X 30"	M4-9	DETOUR (STRAIGHT ARROW)
712-06	SIGNS (CONSTRUCTION)	S.F.	2	9	18	36" X 36"	W1-4	REVERSE CURVE (SYMBOL)
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W1-4	LANE SHIFT 1000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	3	9	27	36" X 36"	W20-1	ROAD WORK AHEAD
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 1000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 500 FEET
712-06.01	VERTICAL PANELS	S.F.	136					
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40					
712-08.03	ARROW BOARD (TYPE C)	EACH	1					
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	7415					
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1					
TOTAL					109			

TRAFFIC CONTROL QUANTITIES - S.R. 41 ROBERTSON CO. - 74096-3201-14

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	SIGN SIZE S.F.	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	4					
712-01	TRAFFIC CONTROL	LS	0.2					
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	4766					
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	30					
712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	239					
712-05.01	WARNING LIGHTS (TYPE A)	EACH	10					
712-06	SIGNS (CONSTRUCTION)	S.F.	3	4.5	13.5	36" X 18"	G20-2	END ROAD WORK
712-06	SIGNS (CONSTRUCTION)	S.F.	1	5	5	24" X 30"	M4-9	DETOUR (STRAIGHT ARROW)
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK AHEAD
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 1500 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 1000 FEET
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9	9	36" X 36"	W20-1	ROAD WORK 500 FEET
712-06.01	VERTICAL PANELS	S.F.	471					
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40					
712-08.03	ARROW BOARD (TYPE C)	EACH	1					
712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	12119					
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1					
TOTAL					55			

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107295
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TABULATED QUANTITIES

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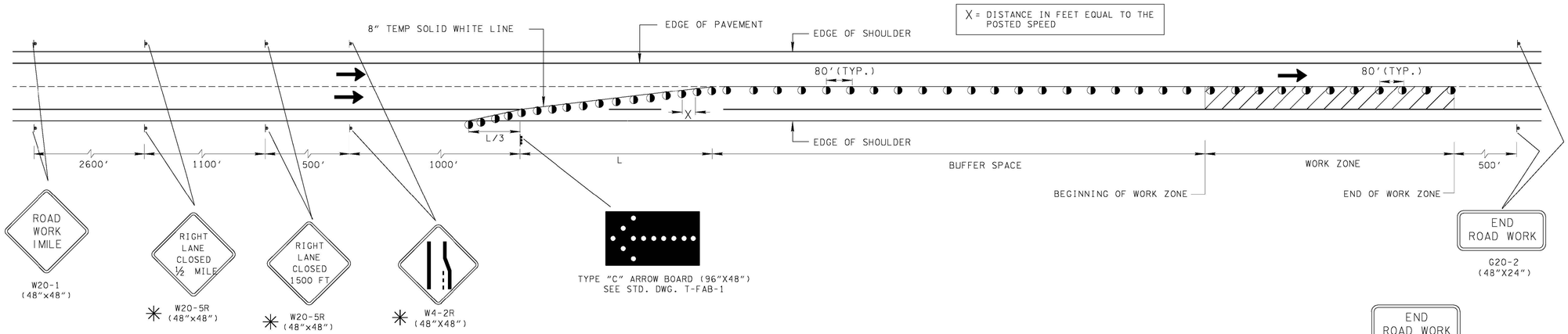
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

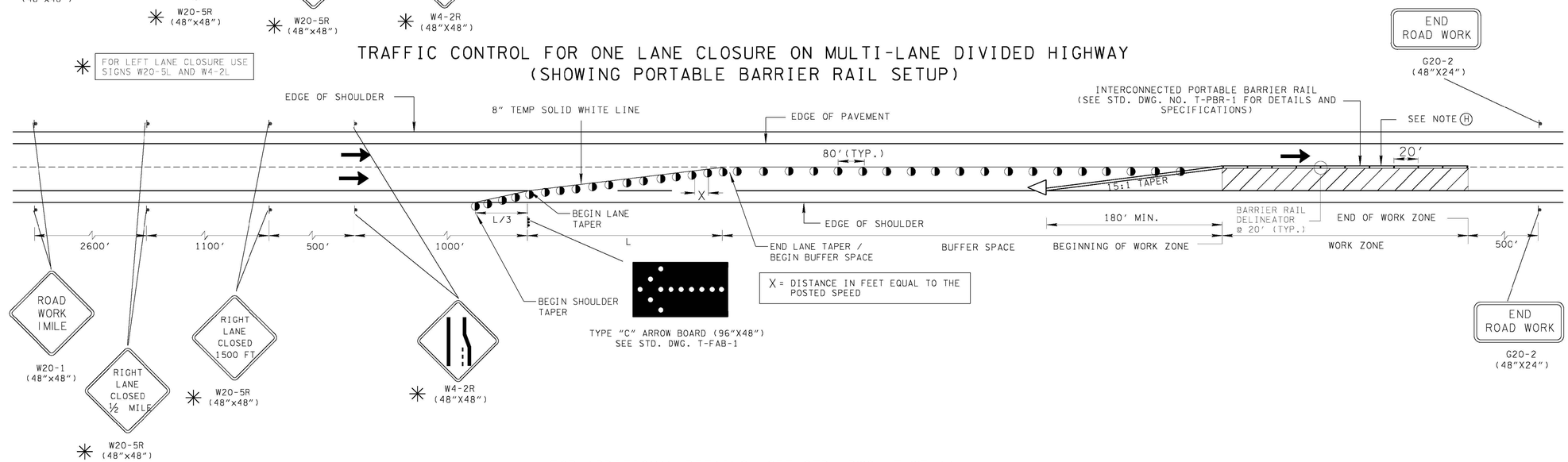
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132C

TRAFFIC CONTROL FOR ONE LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY
(NO PORTABLE BARRIER RAIL SETUP)



✳ FOR LEFT LANE CLOSURE USE SIGNS W20-5L AND W4-2L

TRAFFIC CONTROL FOR ONE LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY
(SHOWING PORTABLE BARRIER RAIL SETUP)



FOR ADDITIONAL DETAILS, SEE STD. DWG. T-WZ-11

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS

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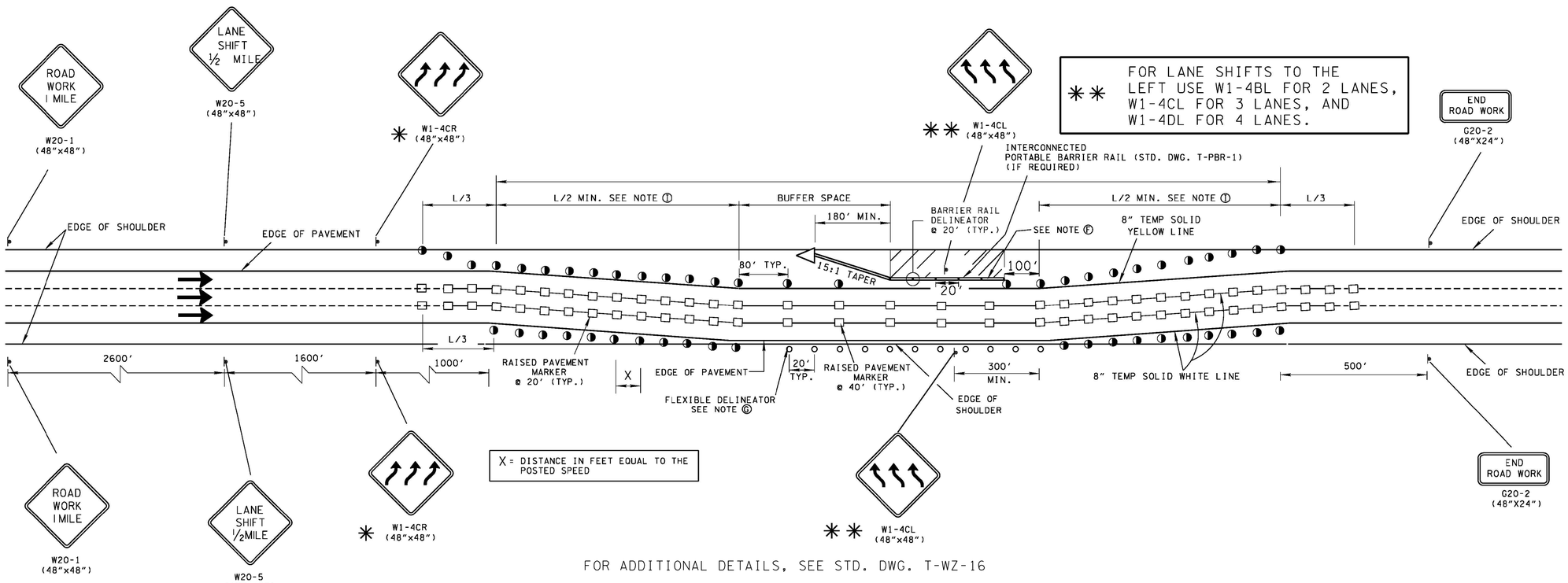
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

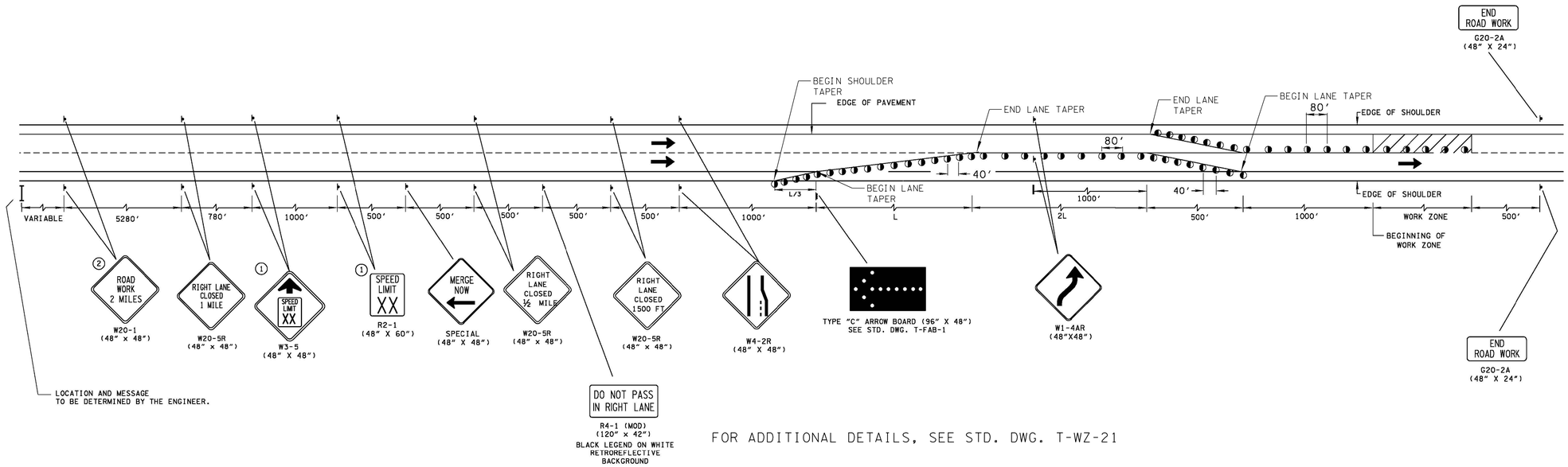
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132D

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION



FOR ADDITIONAL DETAILS, SEE STD. DWG. T-WZ-16

TRAFFIC CONTROL FOR ONE LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY (WITH EARLY MERGE)



FOR ADDITIONAL DETAILS, SEE STD. DWG. T-WZ-21

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83
CONST.	2014	STP/HPP/NH-I-65-3(113)	132E

REV. 04-02-14: UPDATED R.O.W. BEGIN PROJ. STATION.

PHASE 1 NOTES:

PHASE 1A:
I-65: CONSTRUCT AS MUCH OF PROPOSED CULVERT EXTENSIONS AND NEW DRAINAGE STRUCTURES AS POSSIBLE WITHOUT DISTURBING TRAFFIC ON EXISTING ROADWAY.

SR-109: CONSTRUCT NEW BRIDGE OVER I-65, INSTALL PROPOSED DRAINAGE STRUCTURES, AND CONSTRUCT AS MUCH OF THE PROPOSED SR-109 ROADWAY WITHOUT DISTURBING TRAFFIC ON ANY EXISTING ROADWAYS.

PHASE 1B:
COMPLETE SR-109 TIE-INS AND INTERSECTIONS WITH EXISTING SR-109 TIE-IN, US-31W (SR-41), TGT RD., LAKE SPRINGS RD., AND EUBANKS RD. UNDER TRAFFIC USING FLAGGERS.

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

N

1810 1815 1820 1825 1830

TN-55A
96" X 48"
TDOT Construction
Record-A-Comment
1-877-SmartWay

SHADY PARK ROAD
HIGHLAND ROAD
1000'
N.T.S.

I-65 SOUTHBOUND
I-65 NORTHBOUND

8" TEMP. SOLID WHITE LINE

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456

LEFT SHOULDER CLOSED 1500 FT
W21-5L
48" X 48"

720

ROAD WORK 1 MILE
W20-1
48" X 48"
ROAD WORK 1/2 MILE
W20-1
48" X 48"
2600'
(N.T.S.)

RIGHT SHOULDER CLOSED 1500 FT
W21-5R
48" X 48"
END ROAD WORK
G20-2
48" X 24"
1100'
(N.T.S.)

RIGHT SHOULDER CLOSED
W21-5R
48" X 48"
NEXT 1 MILE
W7-3AP
36" X 18"
1000'
(N.T.S.)

500'

TYPE "C" ARROW BOARD (96"X48")
SEE STD. DWG. T-FAB-1

SEE SHEET NO. 132F
STA. 1833+00
MATCH LINE

SUMMERS BRANCH STR-1
STR-1
SUMMERS BRANCH

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C
	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
B.O.P TO STA. 1833+00
SCALE: 1"=100'

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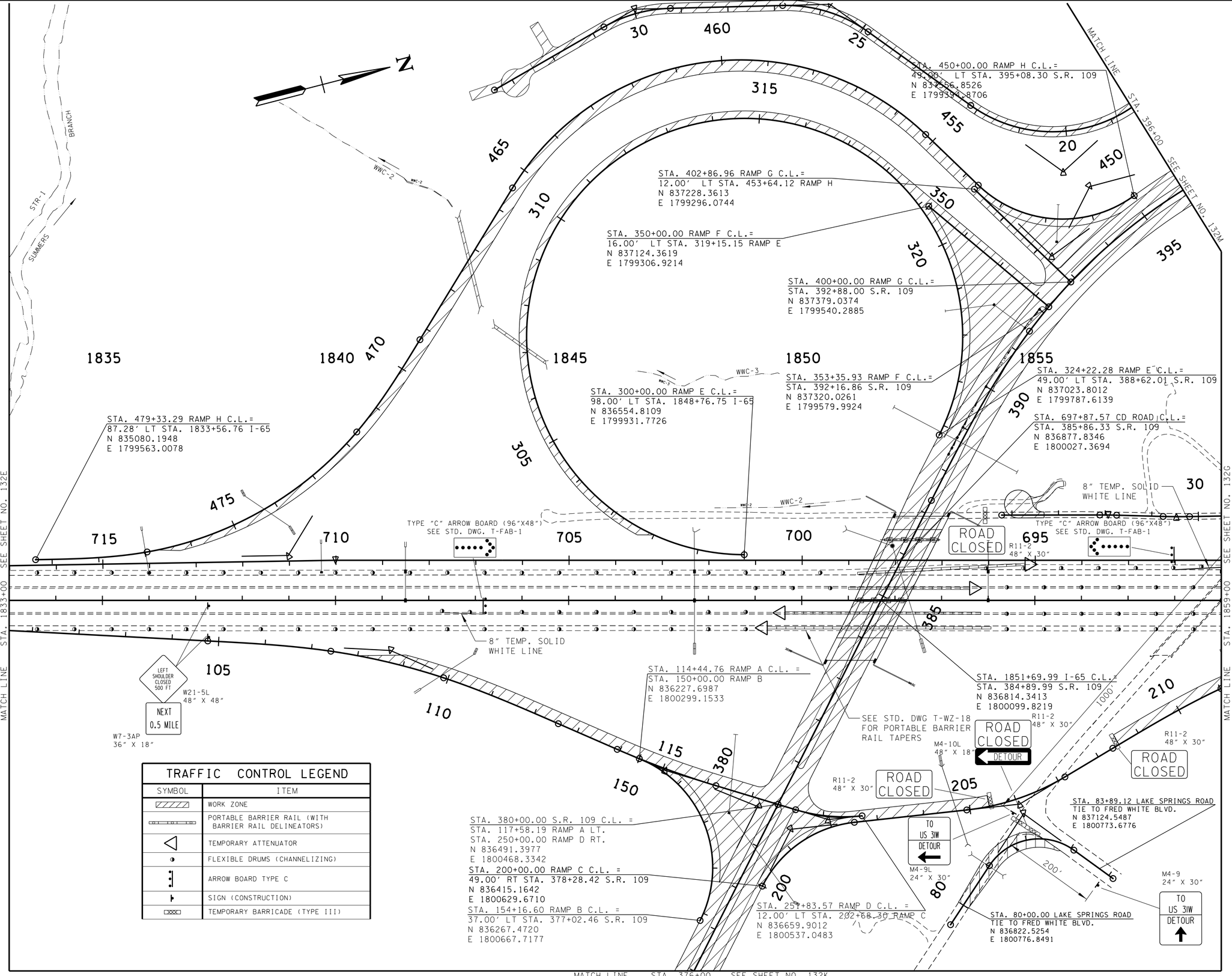
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83A
CONST.	2014	STP/HPP/NH-I-65-3(113)	132F



TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1833+00 TO STA.1859+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83B
CONST.	2014	STP/HPP/NH-I-65-3(113)	132G

MATCH LINE SEE SHEET NO. 132M

N

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

WNC-1

1860 1865 1870 1875 1880 18

TO US 31W DETOUR
M4-9
24" X 30"

35

500'

DETOUR 1500 FT
W20-2
36" X 36"

W21-5R
48" X 48"

RIGHT SHOULDER CLOSED

LAKE SPRINGS ROAD

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718
(SEE SHEET 52 FOR PROFILE)

500

560

600

555

670

550

1000'

8" TEMP. SOLID WHITE LINE

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT. STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

690 685 680 675

I-65 SOUTHBOUND

I-65 NORTHBOUND

215

BOTH SHOULDERS CLOSED

W21-5B
48" X 48"

BOTH SHOULDERS CLOSED I500 FT

W21-5B
48" X 48"

TYPE "C" ARROW BOARD (96"X48")
SEE STD. DWG. T-FAB-1

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

TENNESSEE
KENTUCKY

MATCH LINE STA. 1859+00 SEE SHEET NO. 132F

MATCH LINE STA. 1885+00 SEE SHEET NO. 132H

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C
	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1859+00 TO STA.1885+00

SCALE: 1"=100'

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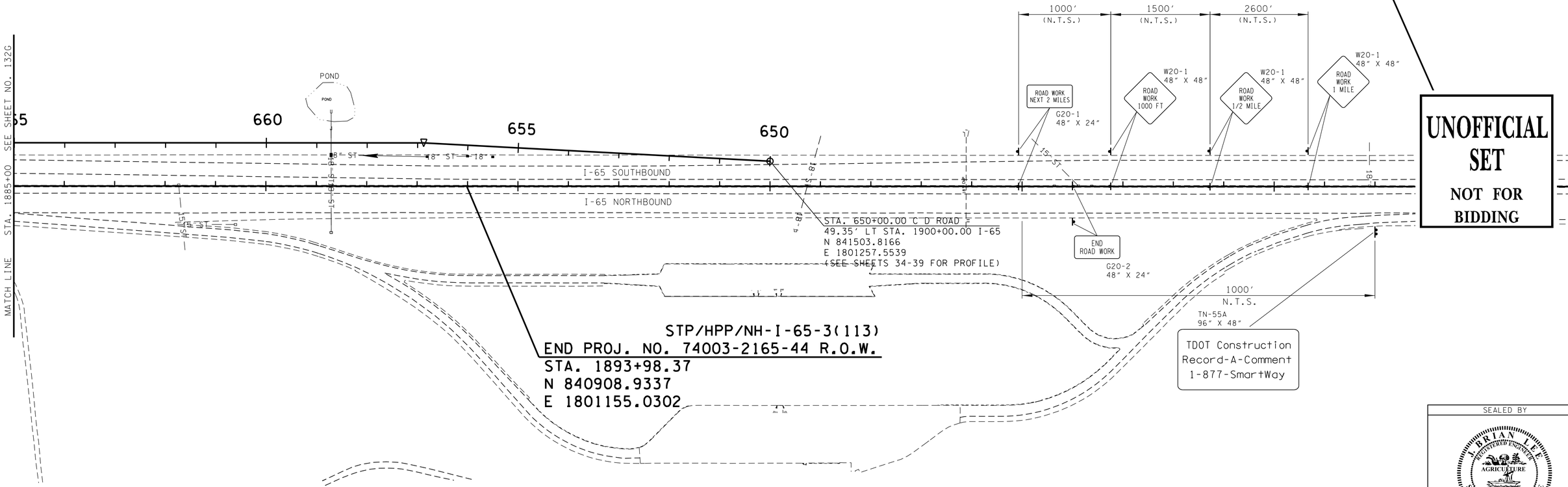
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83C
CONST.	2014	STP/HPP/NH-I-65-3(113)	132H

N

74003-3168-44
END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

85 1890 1895 1900 1905 1910 1915



UNOFFICIAL SET
NOT FOR BIDDING

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
⊢	SIGN (CONSTRUCTION)

SEALED BY

I-65
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1885+00 TO E.O.P.
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83D
CONST.	2014	STP/HPP/NH-I-65-3(113)	132"1"

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
STA. 308+02.00
N 832698.9567
E 1806517.2181

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 S.R. 109 TIE
N 833632.8824
E 1805434.3376

MATCH LINE STA. 327+00

SEE SHEET NO. 132J

305 310 315 320 325 90

2600' (N.T.S.)
1500' (N.T.S.)
S.R. 109

G20-1
36" X 18"
END ROAD WORK

ROAD WORK 1 MILE
W20-1
36" X 36"

ROAD WORK 1/2 MILE
W20-1
36" X 36"

ROAD WORK 1000 FT
W20-1
36" X 36"

R11-2
48" X 30"
ROAD CLOSED

R11-2
48" X 30"
ROAD CLOSED

G20-1
36" X 18"
END ROAD WORK

SR-109 TRAFFIC CONTROL PLAN

PHASE 1A: INSTALL LAKE SPRINGS RD. DETOUR. CONSTRUCTING AS MUCH AS POSSIBLE OF THE RELOCATED SR-109 AND OTHER SIDE ROADS WITHOUT DISTURBING TRAFFIC ON EXISTING ROADS, EXCEPT FOR LAKE SPRINGS RD. DETOUR.

PHASE 1B: CONSTRUCT RELOCATED SR-109 TIE INS UNDER TRAFFIC USING FLAGGERS AT BEGINNING (EASTERN TIE-IN) AT THE (WESTERN TIE-IN) MAINTAIN EAST BOUND TRAFFIC IN EXISTING LANE WHILE SHIFITNG WEST BOUND TRAFFIC INTO WHAT WAS PREVIOUSLY THE CONTINUOUS LEFFT TURN LANE WHILE CONSTRUCTING THE WIDENING ON THE NORTH SIDE OF THE ROADWAY.

- CONSTRUCT OLD SR-109 TIE, TGT ROAD TIE, AND EUBANKS RD TIE UNDER TRAFFIC USING FLAGGERS.

- CONSTRUCT RCBC UNDER DRIVE TO TRACTS 32, 37, AND 38 OFF LAKE SPRINGS RD. AND RECONSTRUCT THE DRIVEWAY.

PHASE 1C: SHIFT TRAFFIC ONTO NEW SR-109 ROADWAY.

-MAINTAIN ACCESS TO TRACTS 32, 37, AND 38 ON NEW DRIVE BUILT IN PHASE 1B WHILE SHUTTING DOWN THE PORTION OF LAKE SPRINGS RD. BETWEEN S. OLD DETOUR RD. AND THE NEW DRIVE, WHILE THE NEW RCBC IS BUILT AND THE ROADWAY RE-CONSTRUCTED.

PHASE 1D: DEMO OLD SR-109 BRIDGE AND OLD ROADBEDS.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
B.O.P. TO STA. 327+00
SCALE: 1"=100'

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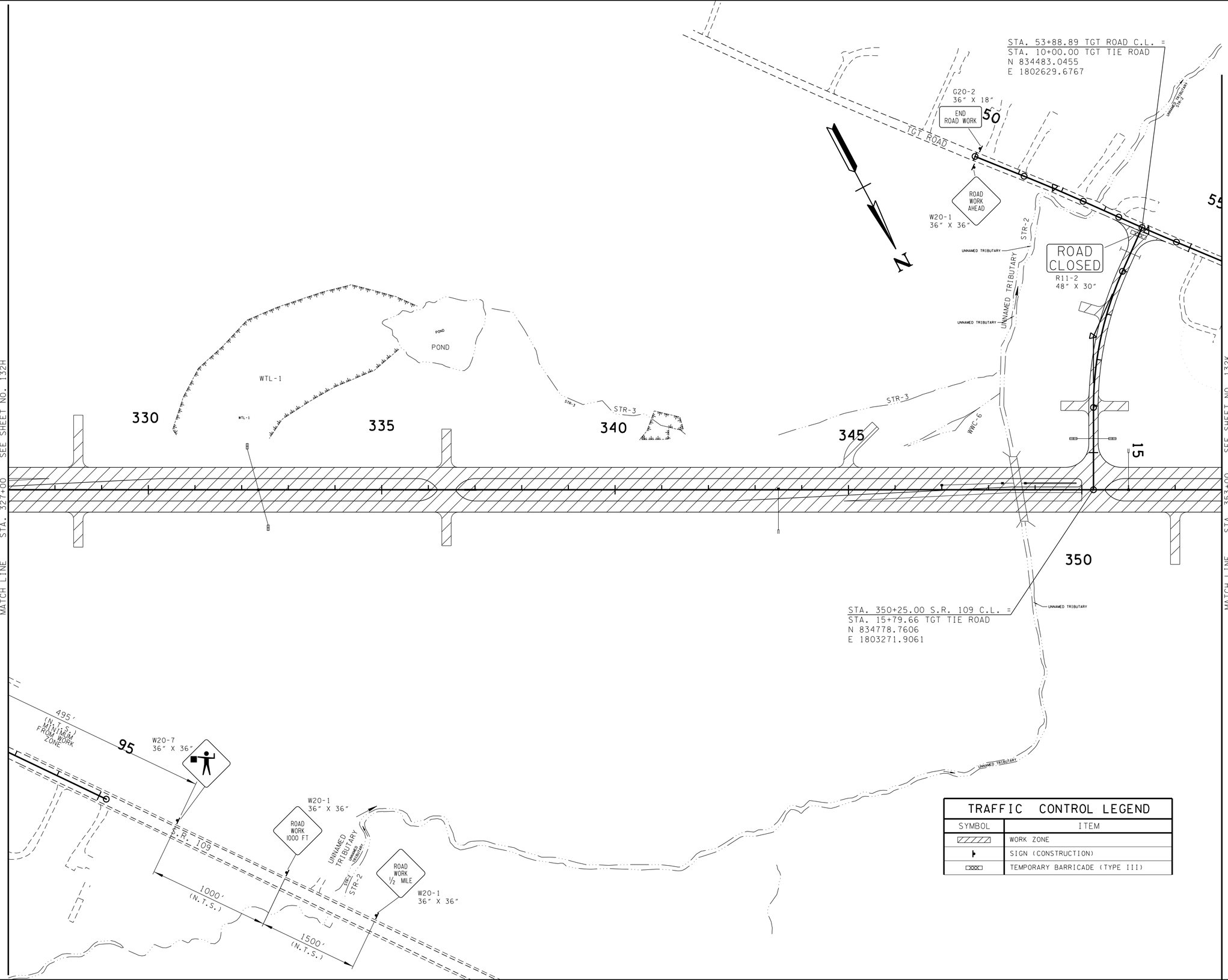
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83F
CONST.	2014	STP/HPP/NH-I-65-3(113)	132J



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

S.R. 109 PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.327+00 TO STA.353+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83G
CONST.	2014	STP/HPP/NH-I-65-3(113)	132K

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

W20-1 36" X 36" ROAD WORK 1500 FT
ROAD WORK 1000 FT (N.T.S.) 500'
W20-1 36" X 36"
500'
W20-1 36" X 36" ROAD WORK 500 FT
G20-1 36" X 18" END ROAD WORK
500'

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3884
E 1801142.4702

1120 1125 1130 1135

MATCH LINE STA. 353+00 SEE SHEET NO. 132"I"

355 360 365 370 375 MATCH LINE STA. 376+00

R11-2 48" X 30" ROAD CLOSED
R11-2 48" X 30" ROAD CLOSED
65 60 75

M4-9 24" X 30" TO LAKE SPRINGS ROAD DETOUR

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"
DETOUR
M4-10R 48" X 18"

200'
500'
1000'

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
74003-3164-44 CONST.
STA. 362+36.28 S.R. 109

G20-1 36" X 18" END ROAD WORK
ROAD WORK 500 FT W20-1 36" X 36"

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

MATCH LINE STA. 1138+00 SEE SHEET NO. 132L

N

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.353+00 TO STA.376+00
SCALE: 1"=100'

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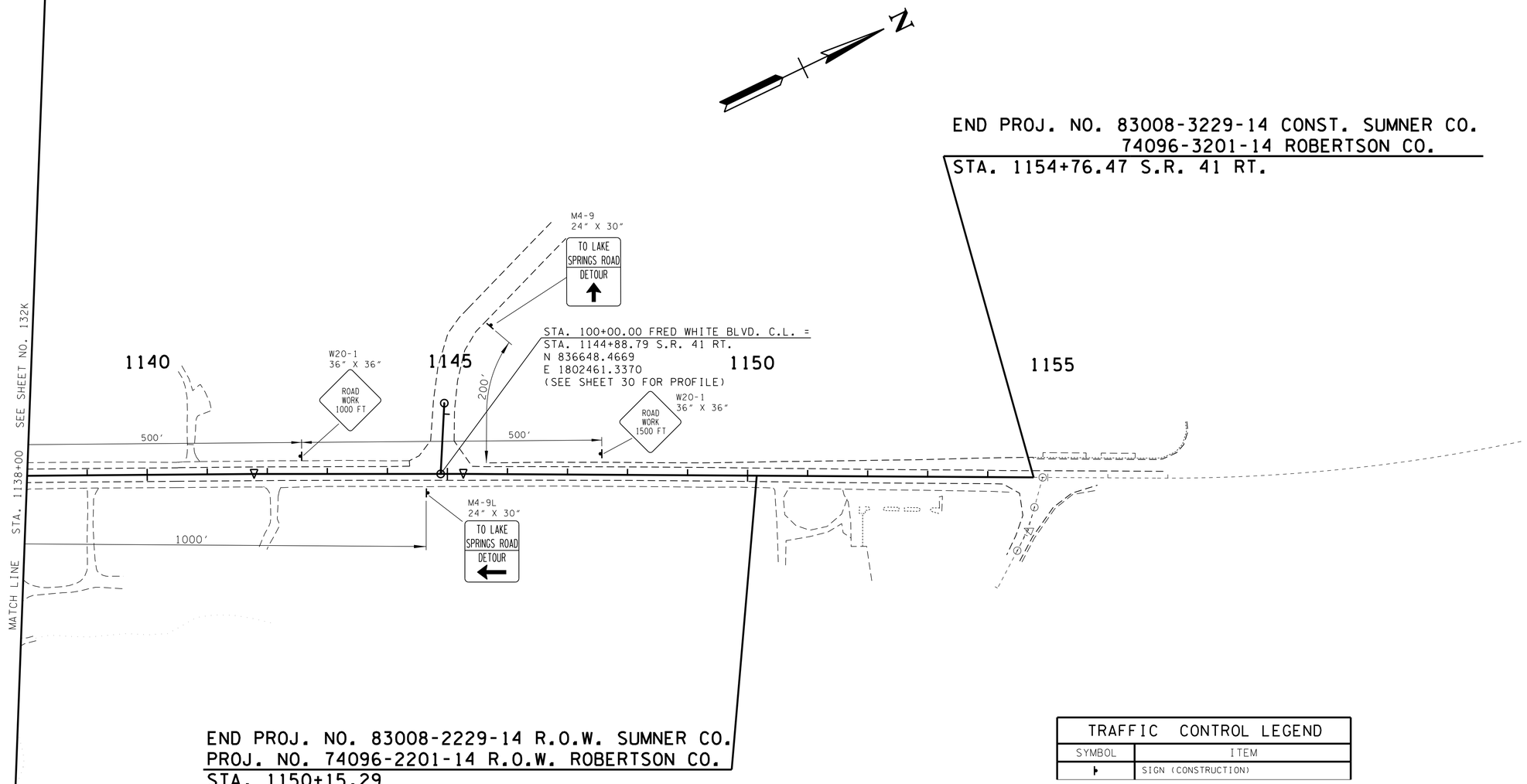
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132L

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.



STA. 100+00.00 FRED WHITE BLVD. C.L. =
STA. 1144+88.79 S.R. 41 RT.
N 836648.4669
E 1802461.3370
(SEE SHEET 30 FOR PROFILE)

END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
⊢	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

S.R. 41
(U.S. 31 W)
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1138+00 TO E.O.P.
SCALE: 1"=100'

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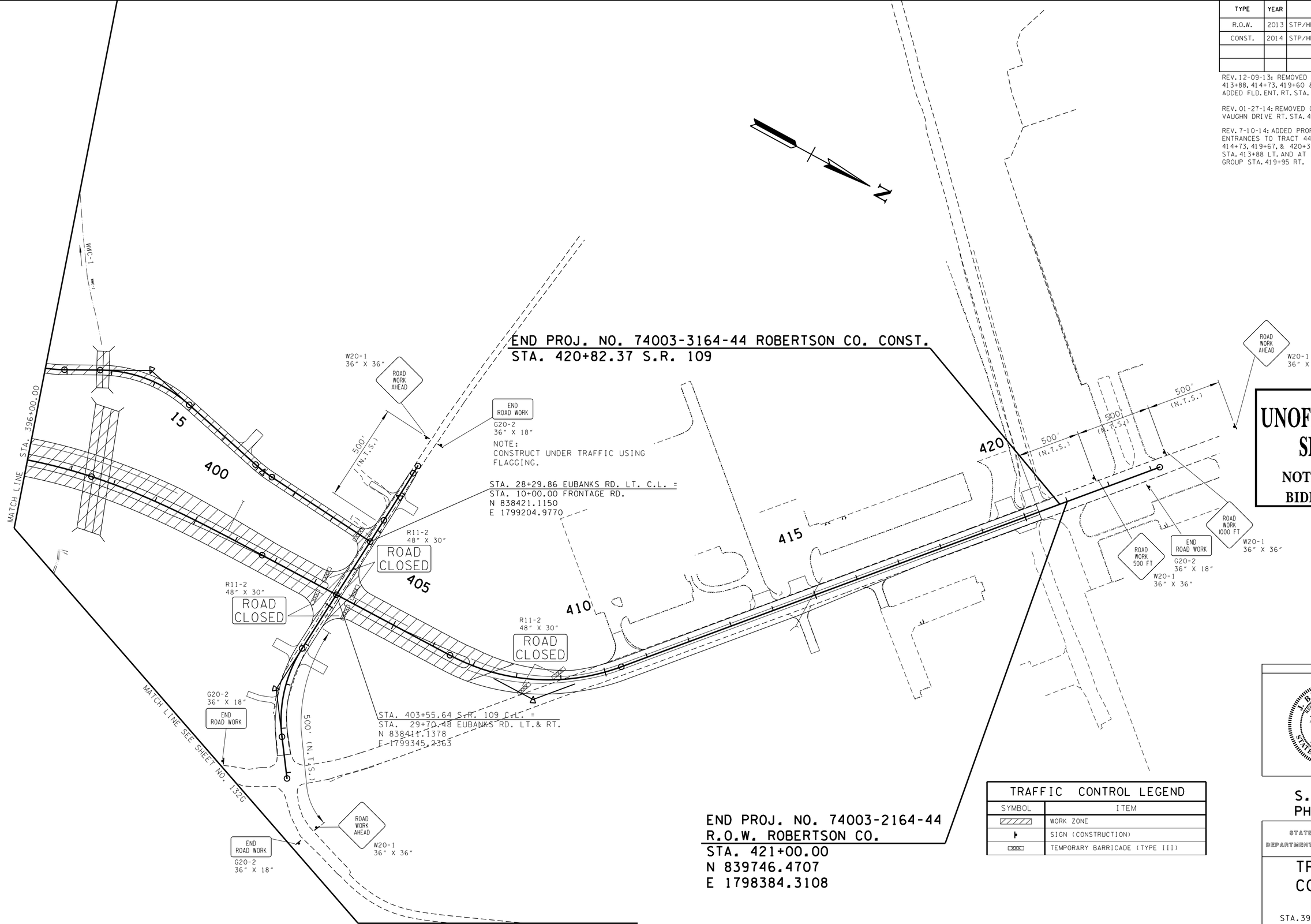
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83L
CONST.	2014	STP/HPP/NH-I-65-3(113)	132M

REV. 12-09-13: REMOVED BUS. ENT. LT. STA. 413+88, 414+73, 419+60 & RT. STA. 420+00. ADDED FLD. ENT. RT. STA. 414+56.

REV. 01-27-14: REMOVED CUL-DE-SAC FROM VAUGHN DRIVE RT. STA. 407+00 SR-109.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
▸	SIGN (CONSTRUCTION)
▭	TEMPORARY BARRICADE (TYPE III)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA. 396+00 TO E.O.P.

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132N

MATCH LINE

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

LAKE SPRINGS ROAD

1860 1865 1870 1875 1880 18

BUILD RCBC AND
DRIVE THIS PHASE

35

W1-4AL
36" X 36"

W20-1
36" X 36"

ROAD WORK AHEAD

500'

500

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

560

600

555

550

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718
(SEE SHEET 52 FOR PROFILE)

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT. STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

690 680 670 66

685 675

STA. 1859+00

STA. 1885+00

I-65 SOUTHBOUND

I-65 NORTHBOUND

MATCH LINE

215

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

TENNESSEE
KENTUCKY

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C
	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1859+00 TO STA.1885+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83E
CONST.	2014	STP/HPP/NH-I-65-3(113)	132"OT

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
STA. 308+02.00
N 832698.9567
E 1806517.2181

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 S.R. 109 TIE
N 833632.8824
E 1805434.3376

MATCH LINE STA. 327+00.00

305 310 315 320 325 90

S.R. 109

2600' (N.T.S.)
1500' (N.T.S.)
500' (N.T.S.)
500' (N.T.S.)
495' (N.T.S.) FROM WORK ZONE

G20-1 36" X 18"
END ROAD WORK

BE PREPARED TO STOP
W3-4 36" X 36"

W20-7 36" X 36"

ROAD WORK 1 MILE
W20-1 36" X 36"

ROAD WORK 1/2 MILE
W20-1 36" X 36"

ROAD WORK 1000 FT

ROAD CLOSED
R11-2 48" X 30"

W20-7 36" X 36"

W20-7 36" X 36"

ROAD CLOSED
R11-2 48" X 30"

END ROAD WORK
G20-1 36" X 18"

NOTE: BARRELS TO BE PLACED AND MOVED AS NEEDED

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMPORARY BARRICADE (TYPE III)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
B.O.P. TO STA. 327+00
SCALE: 1"=100'

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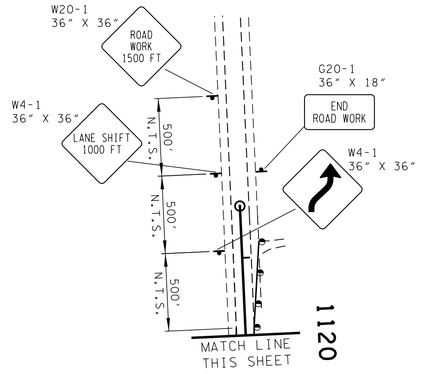
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83H
CONST.	2014	STP/HPP/NH-I-65-3(113)	132P

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.



83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

MATCH LINE THIS SHEET

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

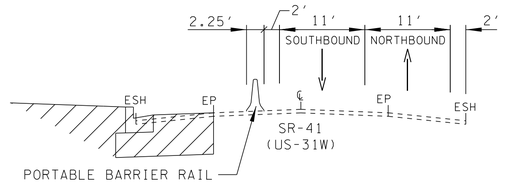
END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

NOTE:
CONSTRUCT WIDENING ALONG SR-41 ONE SIDE AT TIME USING TYPICAL SHOWN BELOW.

DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES.

PORTABLE BARRIER RAIL WITH ATTENUATORS AT ALL OPENINGS.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	TEMPORARY ATTENUATOR
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	FLEXIBLE DRUMS (CHANNELIZING)

NOTE:
IF ENDS OF PORTABLE BARRIER RAIL AT ANY OPENINGS ARE INSIDE THE ROADWAY AND CLEAR ZONE THEN PORTABLE IMPACT ATTENUATORS , TO BE INSTALLED.

UNOFFICIAL SET
NOT FOR BIDDING

PORTABLE BARRIER RAIL

STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3884
E 1801142.4702

STA. 353+00

MATCH LINE

R11-2
48" X 30"
ROAD CLOSED

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
74003-3164-44 CONST.
STA. 362+36.28 S.R. 109

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

MATCH LINE STA. 376+00

MATCH LINE STA. 1138+00 SEE SHEET NO. 132Q

SEALED BY

S.R. 109
PHASE 1B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.353+00 TO STA.376+00

SCALE: 1"=100'

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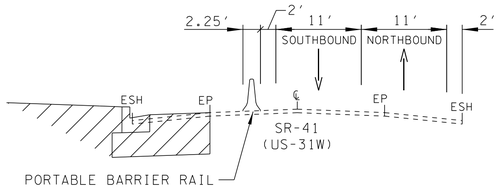
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83
CONST.	2014	STP/HPP/NH-I-65-3(113)	132

NOTE:
CONSTRUCT WIDENING ALONG SR-41 ONE SIDE AT TIME USING TYPICAL SHOWN BELOW.

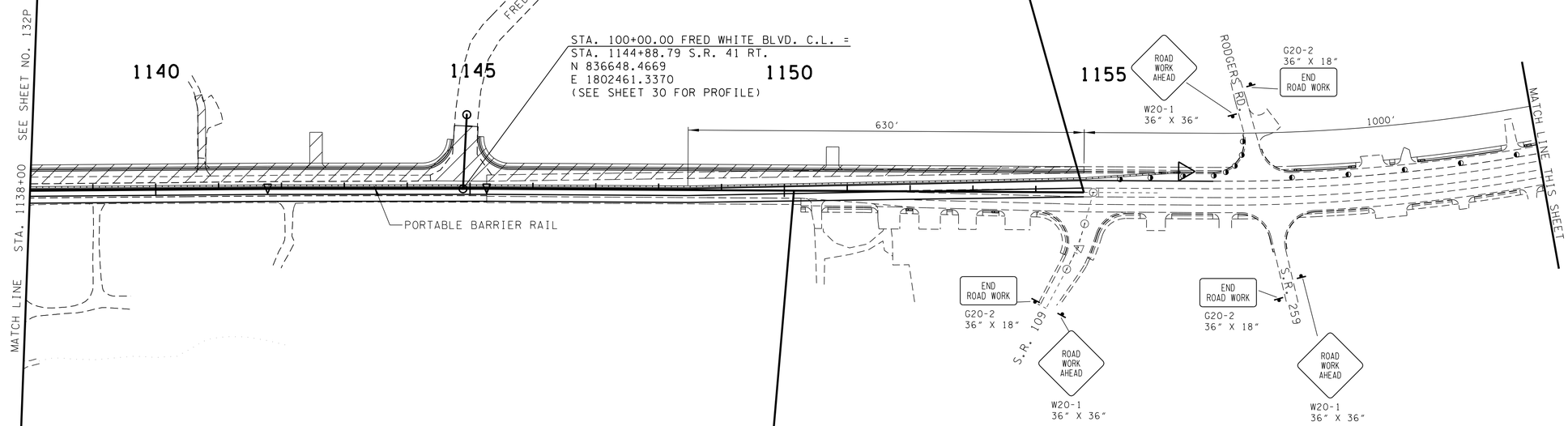
DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES.

PORTABLE BARRIER RAIL WITH ATTENUATORS AT ALL OPENINGS.

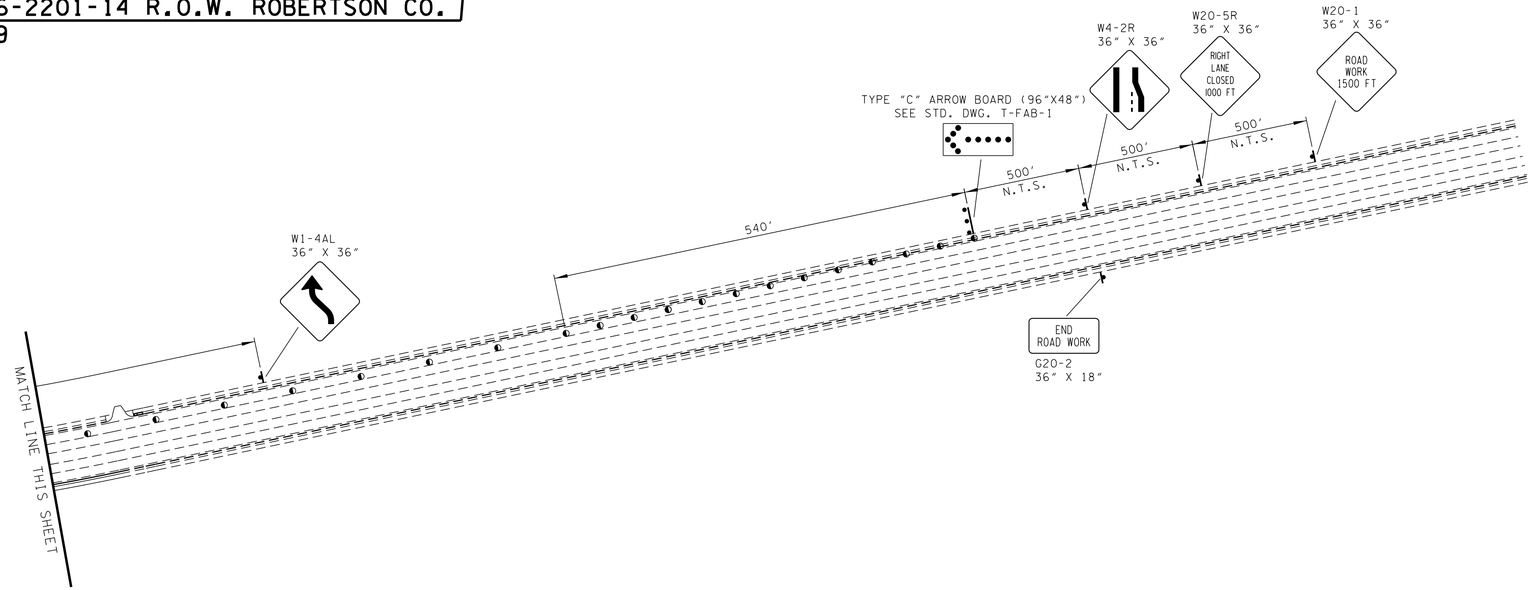


NOTE:
IF ENDS OF PORTABLE BARRIER RAIL AT ANY OPENINGS ARE INSIDE THE ROADWAY AND CLEAR ZONE THEN PORTABLE IMPACT ATTENUATORS ARE TO BE INSTALLED.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.



END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C
	TEMPORARY ATTENUATOR
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

S.R. 41
(U.S. 31 W)
PHASE 1B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1138+00 TO E.O.P.
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83M
CONST.	2014	STP/HPP/NH-I-65-3(113)	132R

REV. 12-09-13: REMOVED BUS. ENT. LT. STA. 413+88, 414+73, 419+60 & RT. STA. 420+00. ADDED FLD. ENT. RT. STA. 414+56.

REV. 01-27-14: REMOVED CUL-DE-SAC FROM VAUGHN DRIVE RT. STA. 407+00 SR-109.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.

SR-109

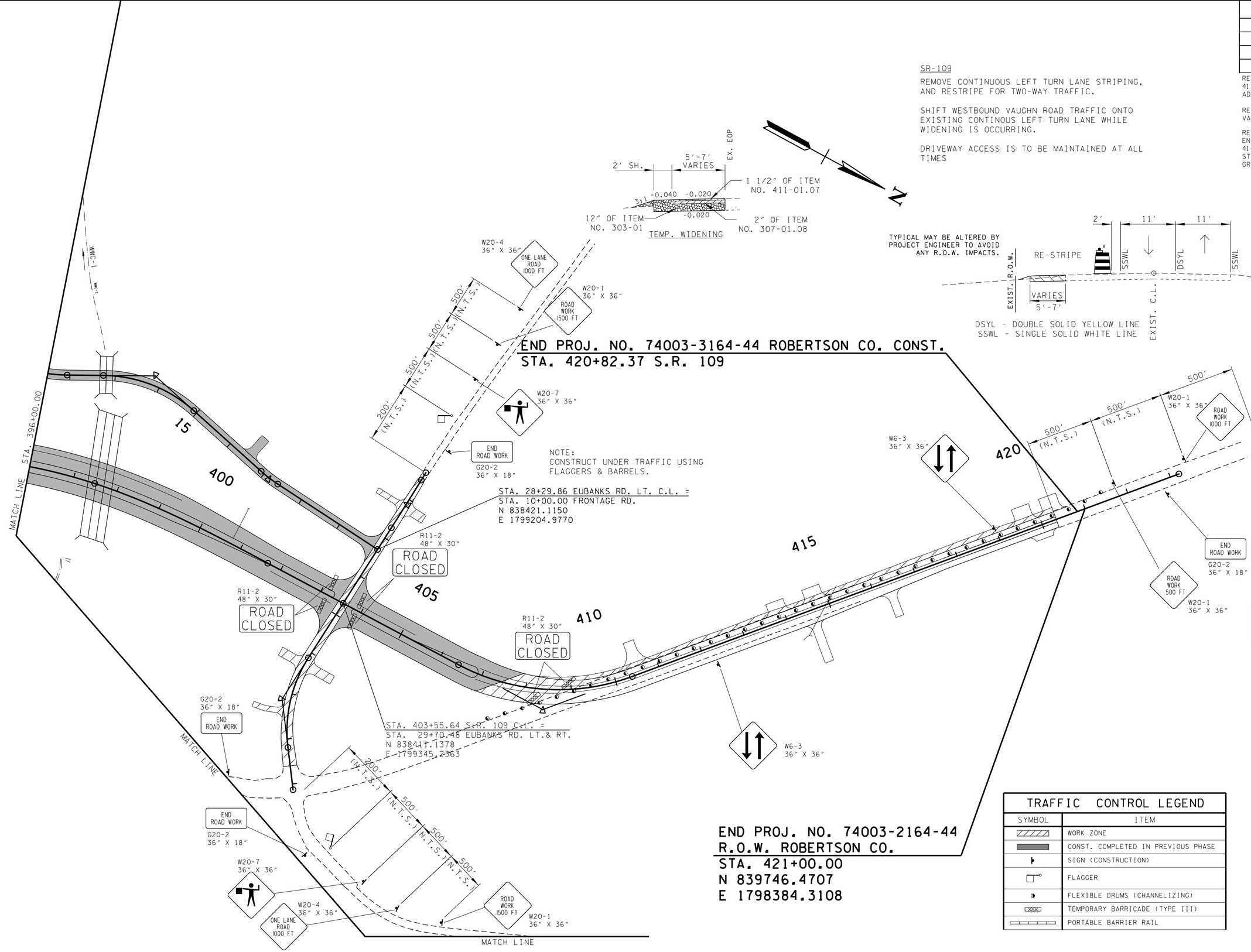
REMOVE CONTINUOUS LEFT TURN LANE STRIPING, AND RESTRIPE FOR TWO-WAY TRAFFIC.

SHIFT WESTBOUND VAUGHN ROAD TRAFFIC ONTO EXISTING CONTINOUS LEFT TURN LANE WHILE WIDENING IS OCCURRING.

DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES

TEMP. WIDENING

DSYL - DOUBLE SOLID YELLOW LINE
SSWL - SINGLE SOLID WHITE LINE



END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770

STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.48 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2363

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

NOTE:
BUSINESS ENTRANCES MUST BE MAINTAINED DURING ALL PHASES OF TRAFFIC CONTROL

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	FLAGGER
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMPORARY BARRICADE (TYPE III)
	PORTABLE BARRIER RAIL

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA. 396+00 TO E.O.P.
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132S

MATCH LINE SEE SHEET NO. 132X

MATCH LINE SEE SHEET NO. 132X

N

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

LAKE SPRINGS ROAD

1860 1865 1870 1875 1880 18

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718
(SEE SHEET 52 FOR PROFILE)

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT. STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

STA. 1859+00

MATCH LINE

690 680 685 675 670 555 550 66

I-65 SOUTHBOUND

I-65 NORTHBOUND

215

STA. 1885+00

MATCH LINE

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

TENNESSEE
KENTUCKY

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 1C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1859+00 TO STA.1885+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132T

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767

G20-2
36" X 18"
END
ROAD WORK

R11-4
60" X 30"
ROAD CLOSED
TO
THRU TRAFFIC

M4-10R
48" X 18"
DETOUR

W20-1
36" X 36"
ROAD
WORK
1500 FT

TGT ROAD

50

55

500'

STR-2

UNNAMED TRIBUTARY

UNNAMED TRIBUTARY

UNNAMED TRIBUTARY

ROAD
WORK
1000 FT

W20-1
36" X 36"

N

POND

POND

WTL-1

WTL-1

330

335

340

345

350

STR-3

STR-3

STR-3

WMC-6

15

95

UNNAMED TRIBUTARY

STR-2

UNNAMED TRIBUTARY

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061

UNNAMED TRIBUTARY

UNNAMED TRIBUTARY

MATCH LINE STA. 327+00

MATCH LINE STA. 353+00

SEE SHEET NO. 132U

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)
	CONST. COMPLETED IN PREVIOUS PHASE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109 PHASE 1C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.327+00 TO STA.353+00

SCALE: 1"=100'

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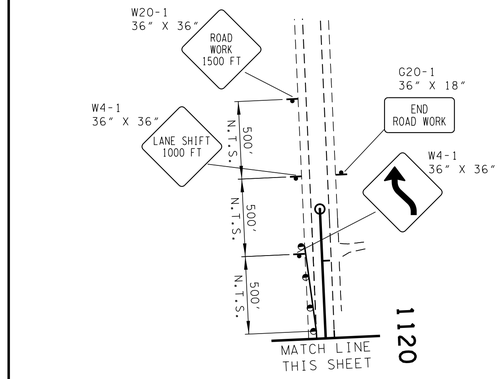
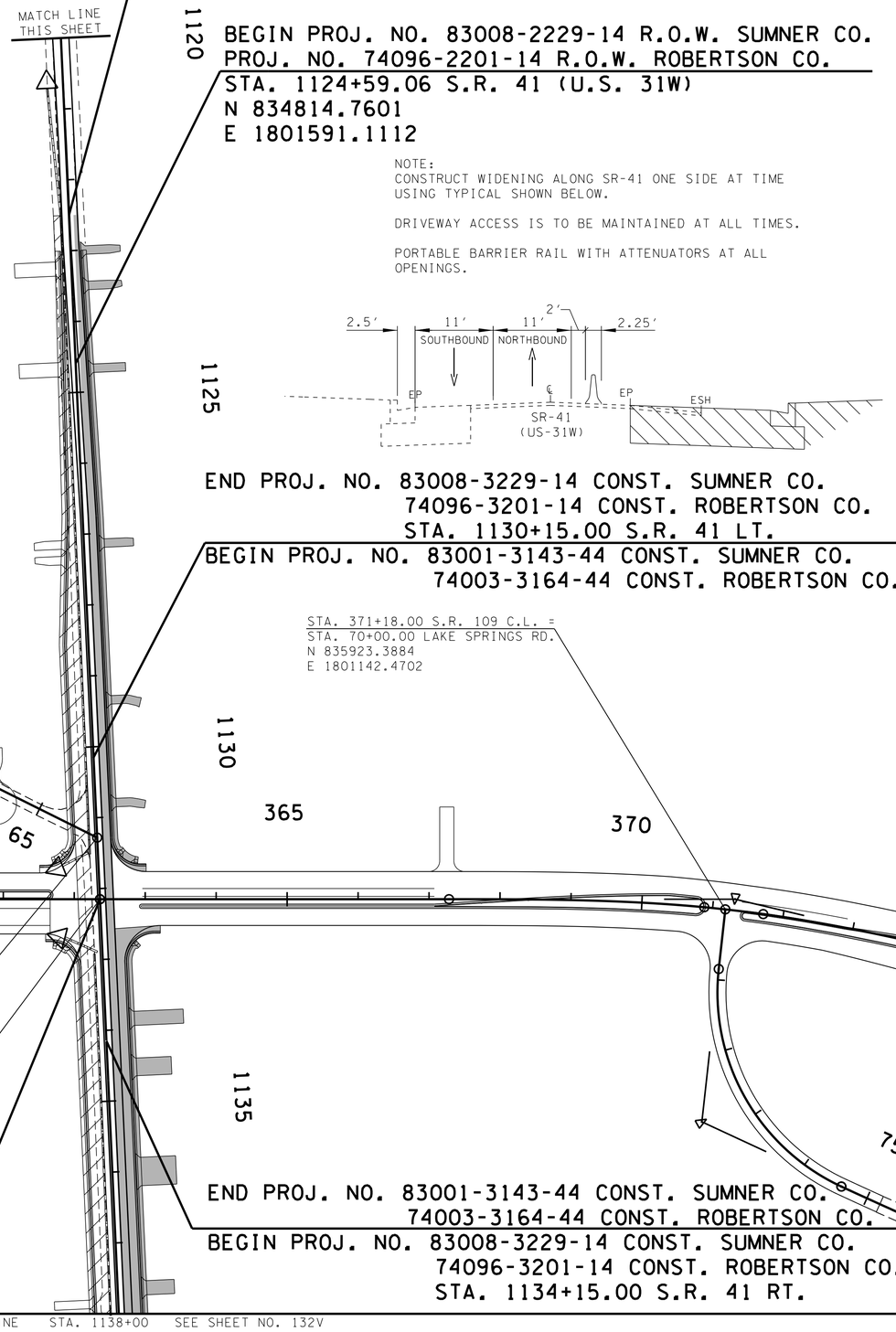
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83T
CONST.	2014	STP/HPP/NH-I-65-3(113)	132U

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.





83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

NOTE:
CONSTRUCT WIDENING ALONG SR-41 ONE SIDE AT TIME USING TYPICAL SHOWN BELOW.

DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES.

PORTABLE BARRIER RAIL WITH ATTENUATORS AT ALL OPENINGS.

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3884
E 1801142.4702

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
74003-3164-44 CONST.
STA. 362+36.28 S.R. 109

END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	TEMPORARY ATTENUATOR
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.353+00 TO STA.376+00
SCALE: 1"=100'

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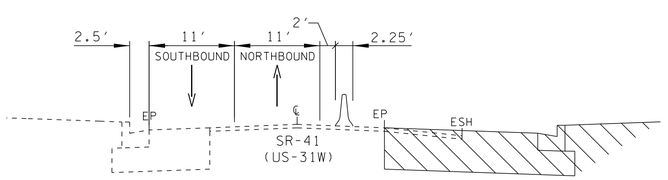
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83K
CONST.	2014	STP/HPP/NH-I-65-3(113)	132V

NOTE:
CONSTRUCT WIDENING ALONG SR-41 ONE SIDE AT TIME USING TYPICAL SHOWN BELOW.

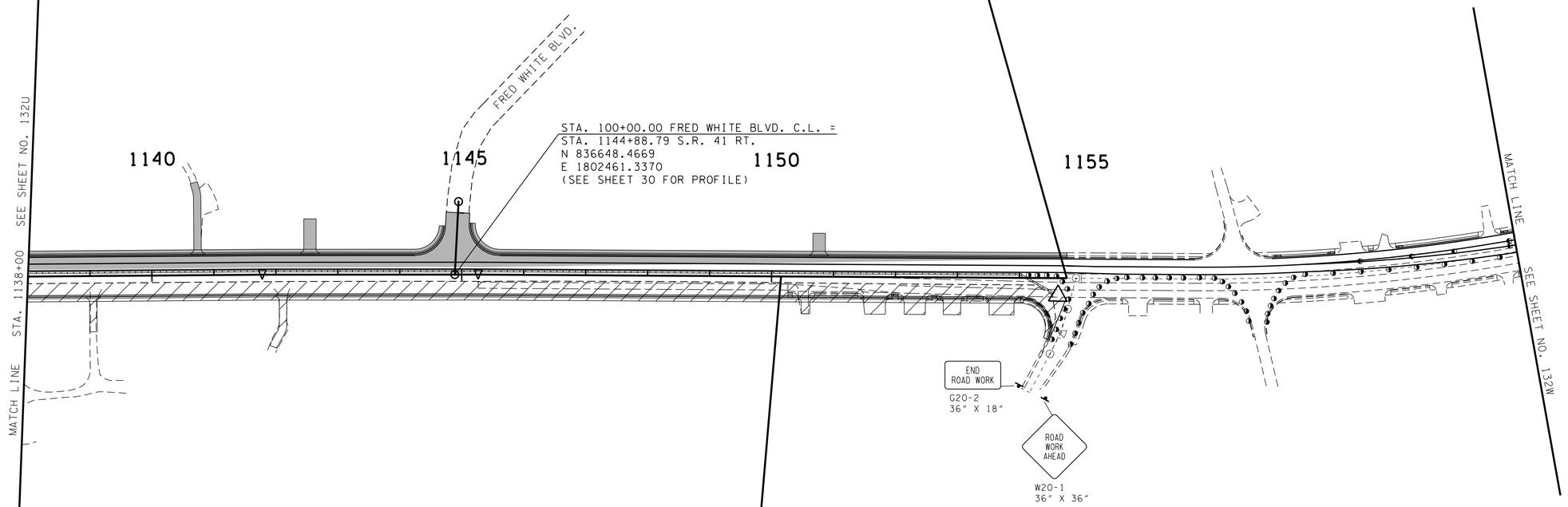
DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES.

PORTABLE BARRIER RAIL WITH ATTENUATORS AT ALL OPENINGS.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 ROBERTSON CO.
STA. 1154+76.47 S.R. 41 RT.



END PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1150+15.29
N 837121.2810
E 1802692.9581

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

S.R. 41
(U.S. 31 W)
PHASE 1C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1138+00 TO E.O.P.

SCALE: 1"=100'

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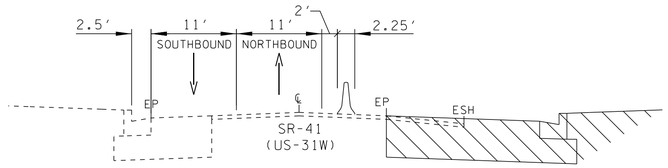
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132W

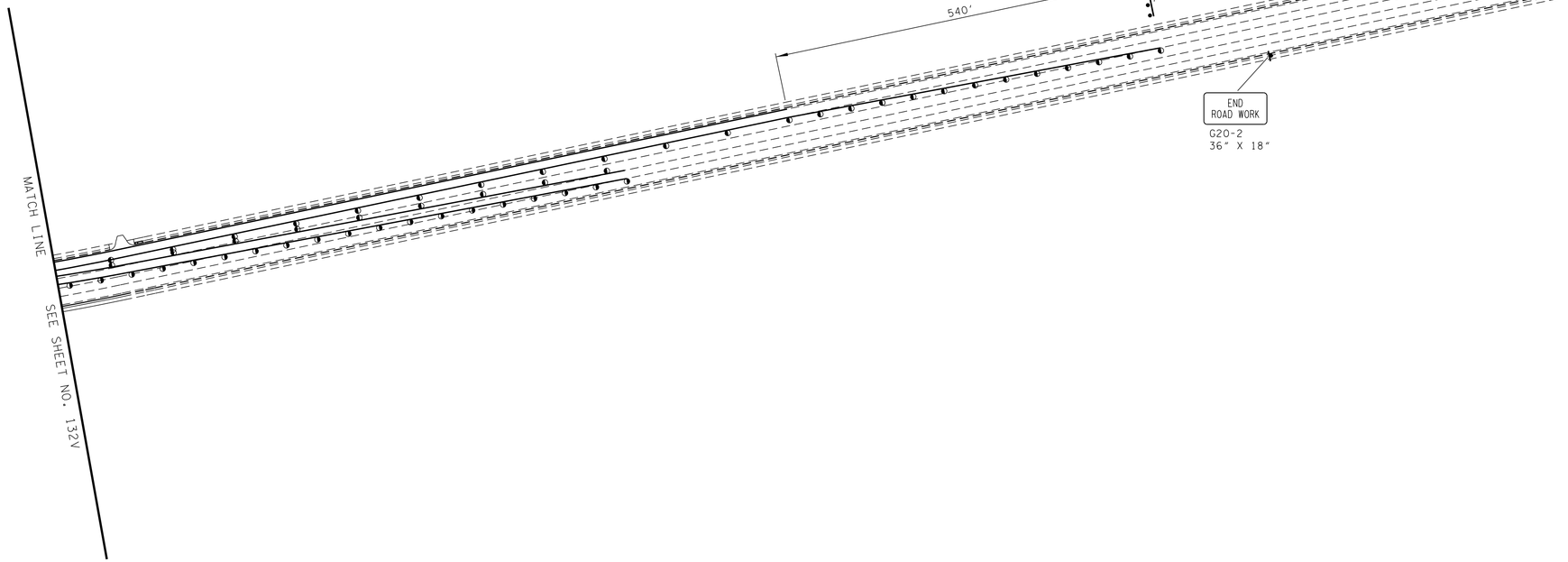
NOTE:
CONSTRUCT WIDENING ALONG SR-41 ONE SIDE AT TIME USING TYPICAL SHOWN BELOW.

DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES.

PORTABLE BARRIER RAIL WITH ATTENUATORS AT ALL OPENINGS.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	ARROW BOARD TYPE C
	FLEXIBLE DRUMS (CHANNELIZING)



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

S.R. 41
(U.S. 31 W)
PHASE 1C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PAST E.O.P.
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132X

SR-109
SHIFT TRAFFIC ONTO NEWLY WIDENED PAVEMENT AND EXISTING LANE.

DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES.

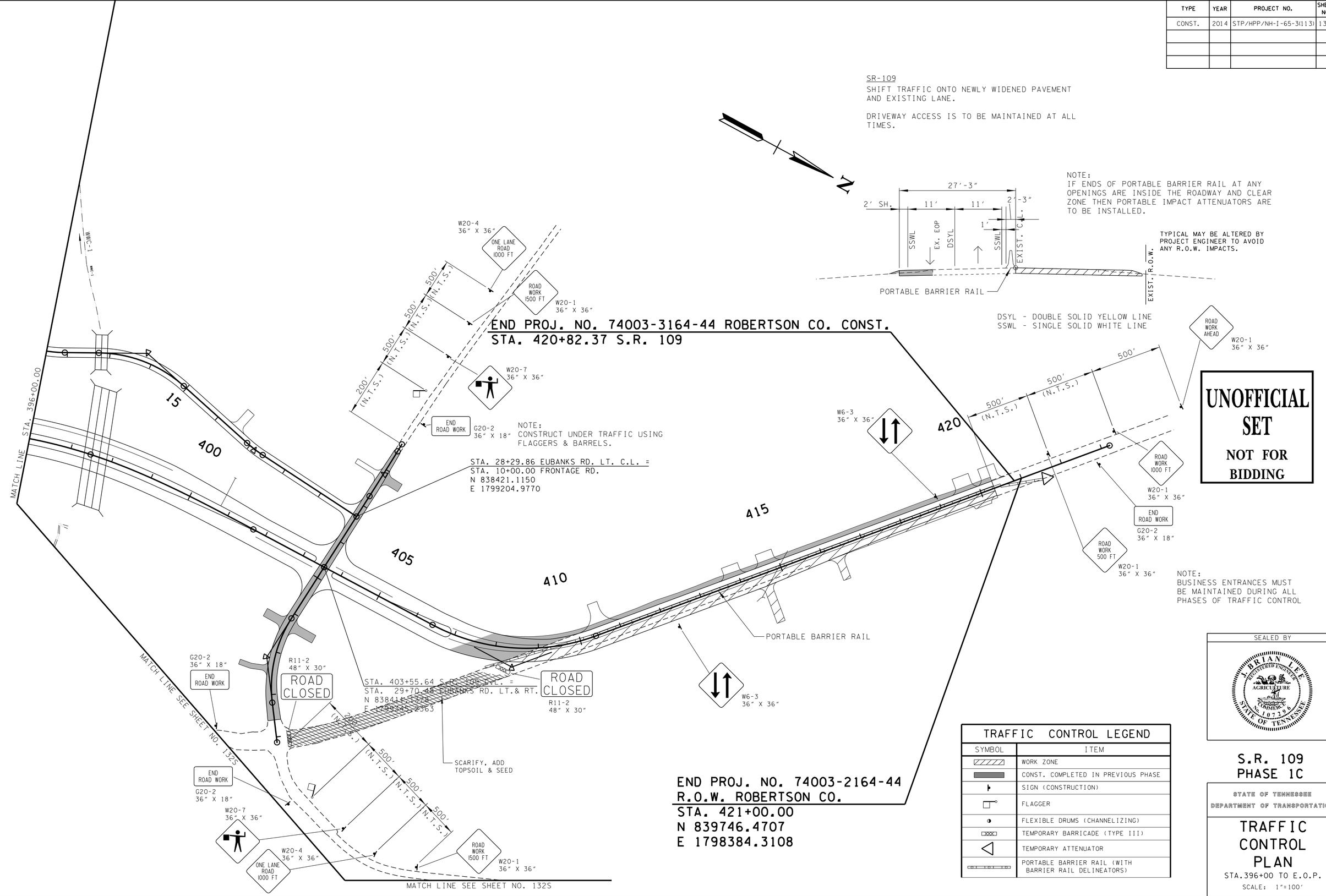
N

NOTE:
IF ENDS OF PORTABLE BARRIER RAIL AT ANY OPENINGS ARE INSIDE THE ROADWAY AND CLEAR ZONE THEN PORTABLE IMPACT ATTENUATORS ARE TO BE INSTALLED.

TYPICAL MAY BE ALTERED BY PROJECT ENGINEER TO AVOID ANY R.O.W. IMPACTS.

DSYL - DOUBLE SOLID YELLOW LINE
SSWL - SINGLE SOLID WHITE LINE

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109



STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770

NOTE:
CONSTRUCT UNDER TRAFFIC USING FLAGGERS & BARRELS.

STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.48 EUBANKS RD. LT.& RT.
N 838411.1178
E 1798384.2363

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

NOTE:
BUSINESS ENTRANCES MUST BE MAINTAINED DURING ALL PHASES OF TRAFFIC CONTROL

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	FLAGGER
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMPORARY BARRICADE (TYPE III)
	TEMPORARY ATTENUATOR
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

S.R. 109
PHASE 1C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.396+00 TO E.O.P.
SCALE: 1"=100'

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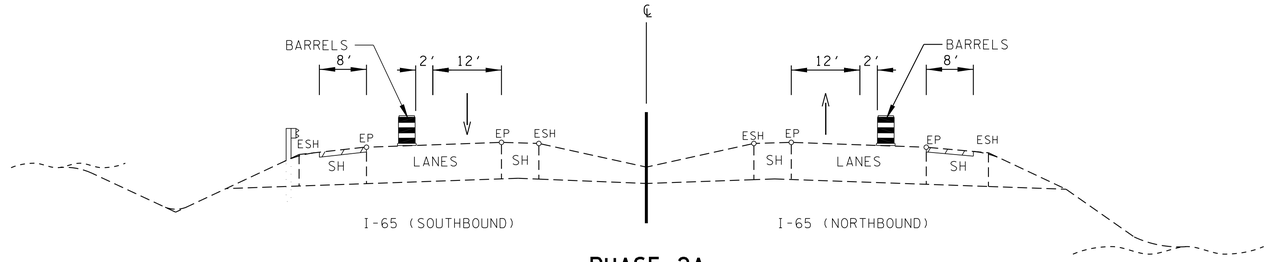
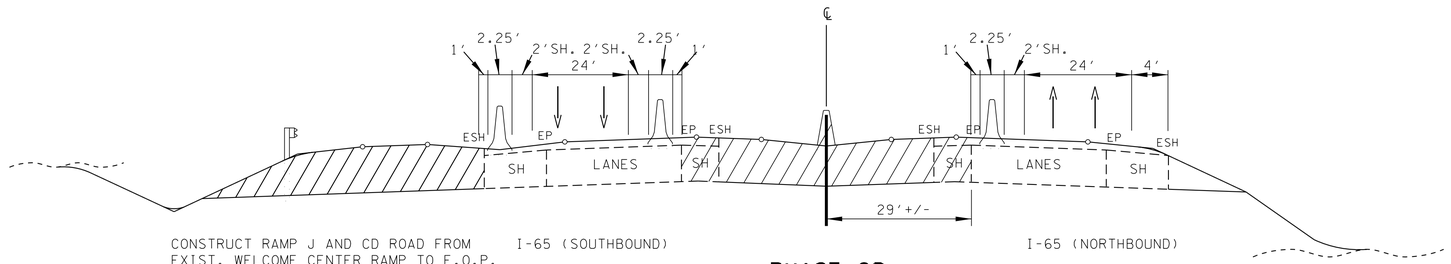
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83Y
CONST.	2014	STP/HPP/NH-I-65-3(113)	132Y



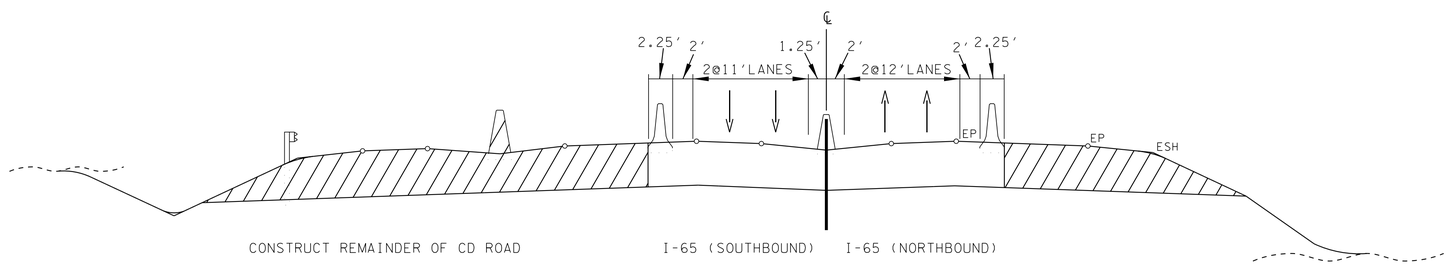
PHASE 2A

PHASE 2A:
REDUCE I-65 TO 1-LANE IN EACH DIRECTION WHILE THE OUTSIDE SHOULDERS ARE MILLED 1.5" TO REMOVE THE RUMBLE STRIPS AND PLACE BACK 1.5" OF "E" MIX.



PHASE 2B

PHASE 2B:
SHIFT I-65 TRAFFIC LANES OUT ONTO PORTION OF EXISTING SHOULDER RE-CONSTRUCTED ON PHASE 2A. DO ALL MEDIAN WORK.



PHASE 2C

PHASE 2C:
SHIFT TRAFFIC ONTO NEW ROADWAY AND SHOULDERS CONSTRUCTED IN PHASE 2B. CONSTRUCT OUTER LANES, SHOULDERS, CD ROAD, AND RAMP TIE-INS.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65 PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

TYPICAL SECTIONS
NOT TO SCALE

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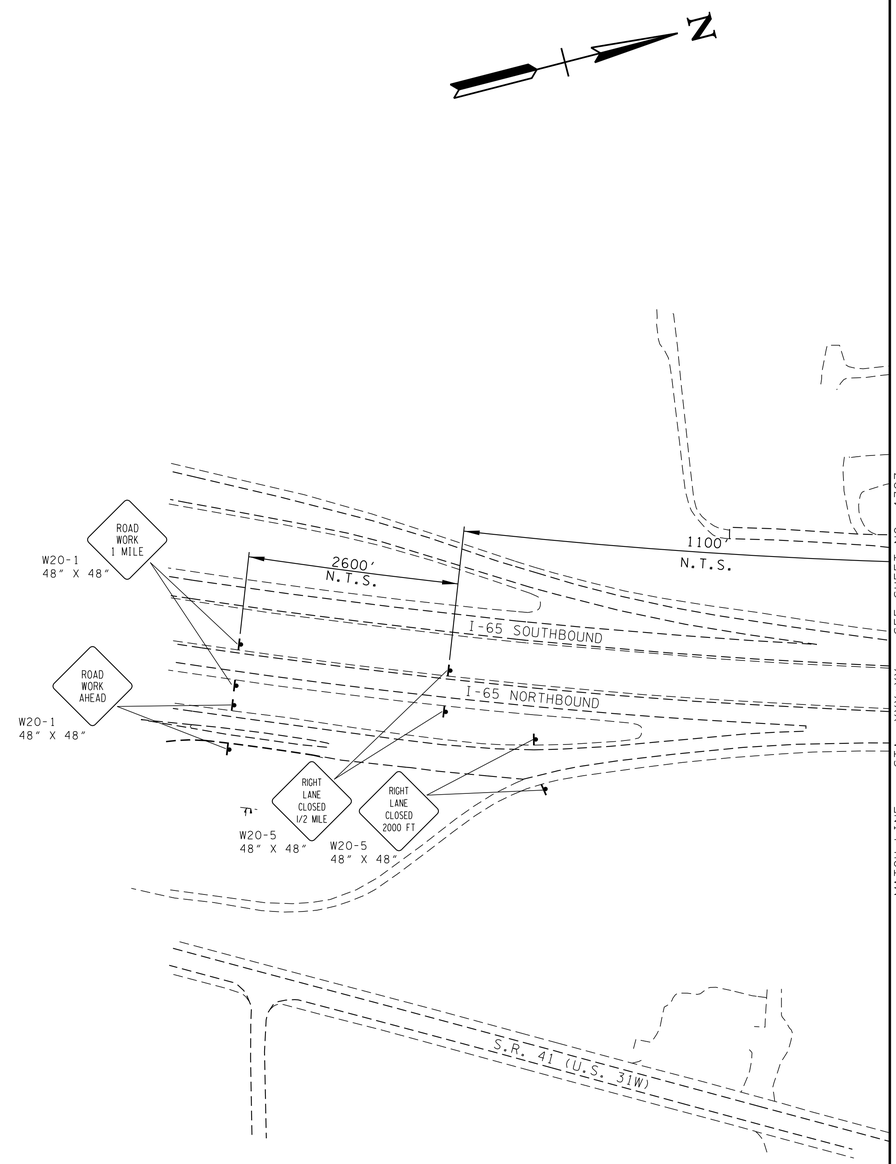
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132Z



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
⊢	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

I-65 PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

PRIOR TO B.O.P

SCALE: 1"=100'

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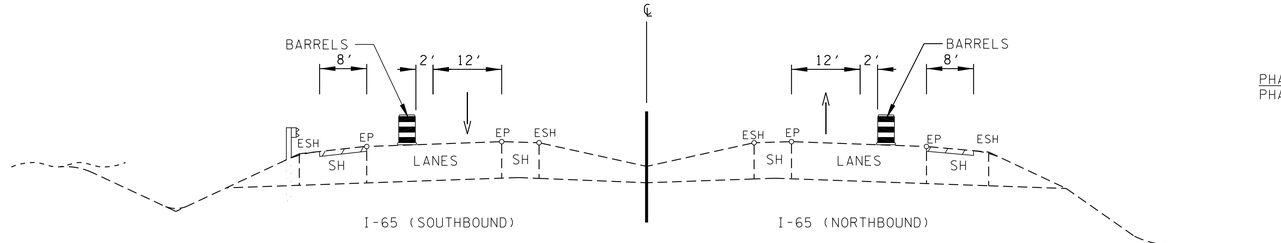
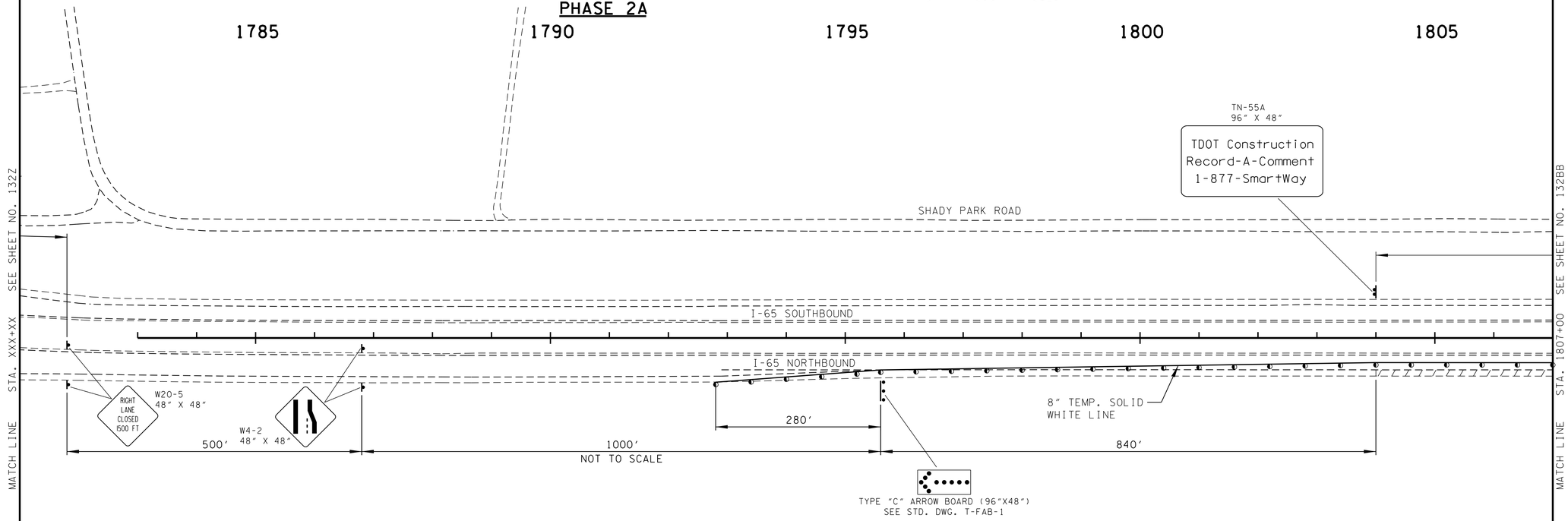
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AA



PHASE 2 NOTES:
PHASE 2A:
REDUCE I-65 TO 1-LANE IN EACH DIRECTION WHILE THE OUTSIDE SHOULDERS ARE MILLED 1.5" TO REMOVE THE RUMBLE STRIPS AND PLACE BACK 1.5" OF "E" MIX.

PHASE 2A



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

I-65
PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

B.O.P TO STA.1807+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83N
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AB

REV. 04-02-14: UPDATED R.O.W. BEGIN PROJ. STATION.

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

N

1810 1815 1820 1825 1830

HIGHLAND ROAD
SHADY PARK ROAD
1000'

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456

720

I-65 SOUTHBOUND
I-65 NORTHBOUND
8" TEMP. SOLID WHITE LINE

END ROAD WORK
G20-2
48" X 24"

SUMMERS BRANCH STR-1
STR-1
SUMMERS BRANCH

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

MATCH LINE STA. 1807+00 SEE SHEET NO. 132AA

MATCH LINE STA. 1833+00 SEE SHEET NO. 132AC

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
⊢	SIGN (CONSTRUCTION)
◑	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1807+00 TO STA.1833+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	830
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AC

PHASE 2 NOTES:
PHASE 2A:
MAINTAIN TRAFFIC EXITING WELCOME CENTER ON EXISTING RAMP.

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 479+33.29 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078

STA. 114+44.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483

STA. 83+89.12 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491

R1-2
60" X 60" X 60"
YIELD

W4-1
48" X 48"

W3-2
48" X 48"

8" TEMP. SOLID WHITE LINE

WWC-2

WWC-3

MATCH LINE STA. 1833+00 SEE SHEET NO. 132AB

MATCH LINE STA. 1859+00 SEE SHEET NO. 132AD

MATCH LINE STA. 376+00

MATCH LINE STA. 396+00

STR-1

SUMMERS BRANCH

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
◑	FLEXIBLE DRUMS (CHANNELIZING)
▸	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1833+00 TO STA.1859+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83T
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AD

PHASE 2 NOTES:
PHASE 2A:
MAINTAIN TRAFFIC EXITING WELCOME CENTER ON EXISTING RAMP WHILE CONSTRUCTING TEMP. RUN-AROUND.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)

N

MATCH LINE

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 52 FOR PROFILE)

LAKE SPRINGS ROAD

W20-1
48" X 48"
ROAD WORK AHEAD

STA. 7+12.03
N 837755.7785
E 1800265.2597

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 1+00.00
N 838362.8357
E 1800203.1113

STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718
(SEE SHEET 52 FOR PROFILE)

TEMP. 18" RCP
SOD
V-DT
200'R

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT. STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

8" TEMP. SOLID WHITE LINE

I-65 SOUTHBOUND
I-65 NORTHBOUND

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

EXIT
E5-1
72" X 60"

EXIT OPEN
E5-2
48" X 36"

MATCH LINE STA. 1859+00 SEE SHEET NO. 132AC

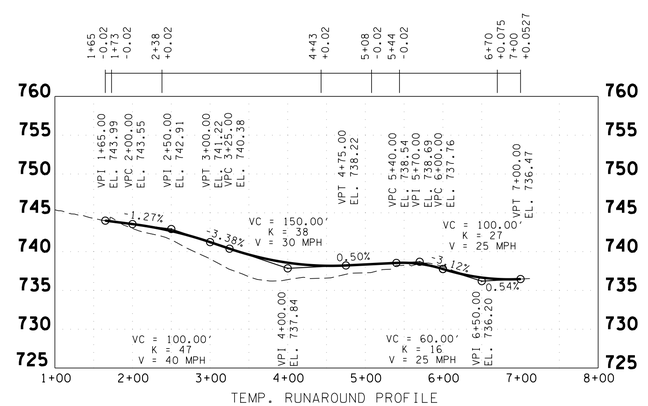
MATCH LINE STA. 1885+00 SEE SHEET NO. 132AE

4' 16' 4' 12'
FINISHED GRADE
0.04 F/F
0.02 F/F
EXISTING GROUND
4:1
3:1
0.01 F/F
10" 303-01
2" 307-01.08
1.25" 411-01.01
1.5" 411-01.07

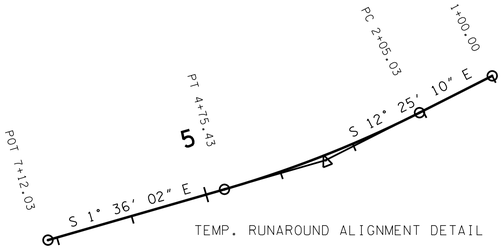
TEMP. RUNAROUND TYPICAL

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

TENNESSEE
KENTUCKY



TEMP. RUNAROUND PROFILE



TEMP. RUNAROUND ALIGNMENT DETAIL

TEMP. RUNAROUND
PI 3+40.63
N 838,127.8373
E 1,800,254.8631
Δ 10° 49' 08" (RT)
D 4° 00' 04"
R 1,432.00
L 270.40
T 135.60
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107239
STATE OF TENNESSEE

I-65
PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1859+00 TO STA.1885+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83W
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AE

N

E
S
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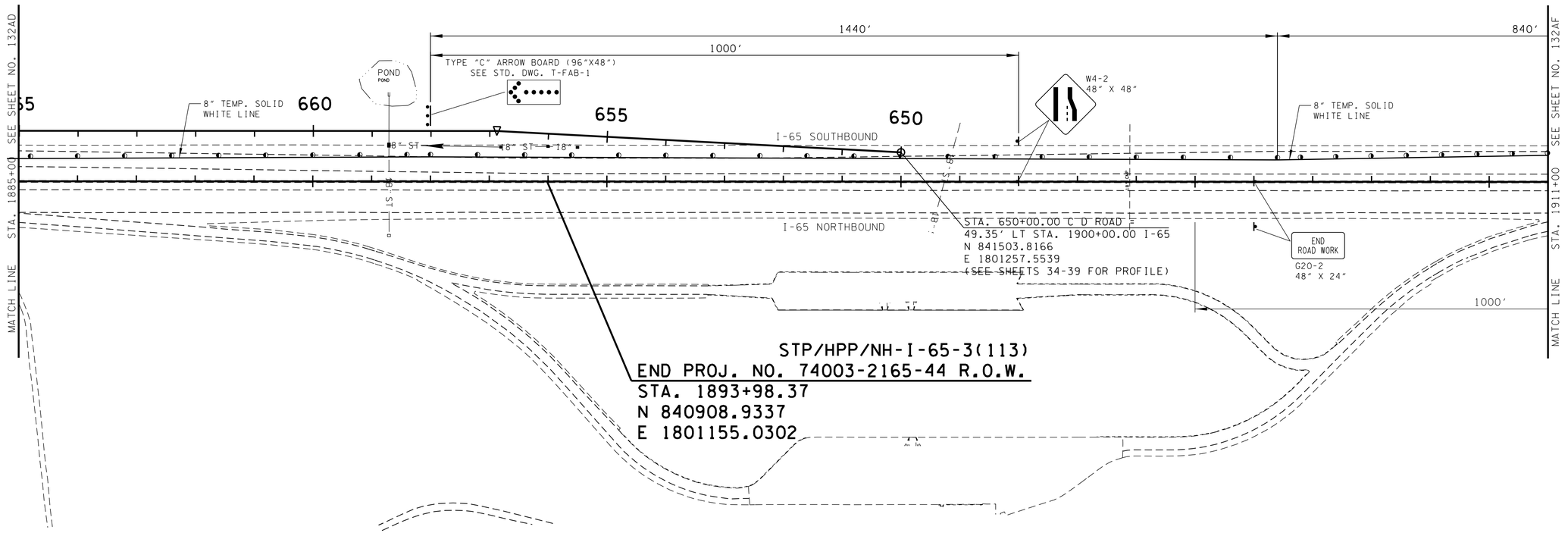
N
E

85 1890 1895 1900 1905 1910



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	ARROW BOARD TYPE C
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1885+00 TO 1911+00

SCALE: 1"=100′

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AF

1915

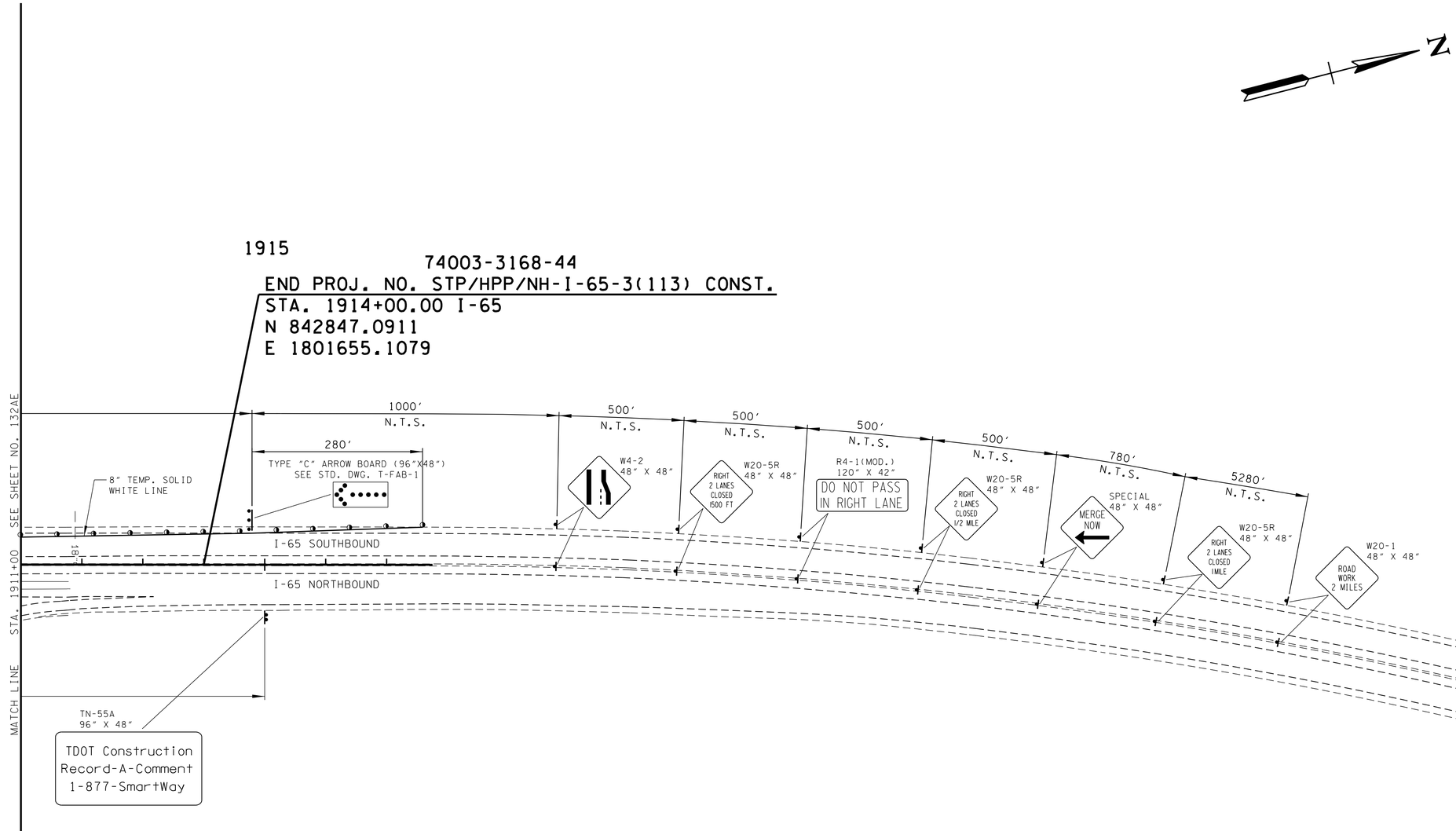
74003-3168-44

END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST.

STA. 1914+00.00 I-65

N 842847.0911

E 1801655.1079



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	ARROW BOARD TYPE C
	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1911+00 TO E.O.P.

SCALE: 1"=100'

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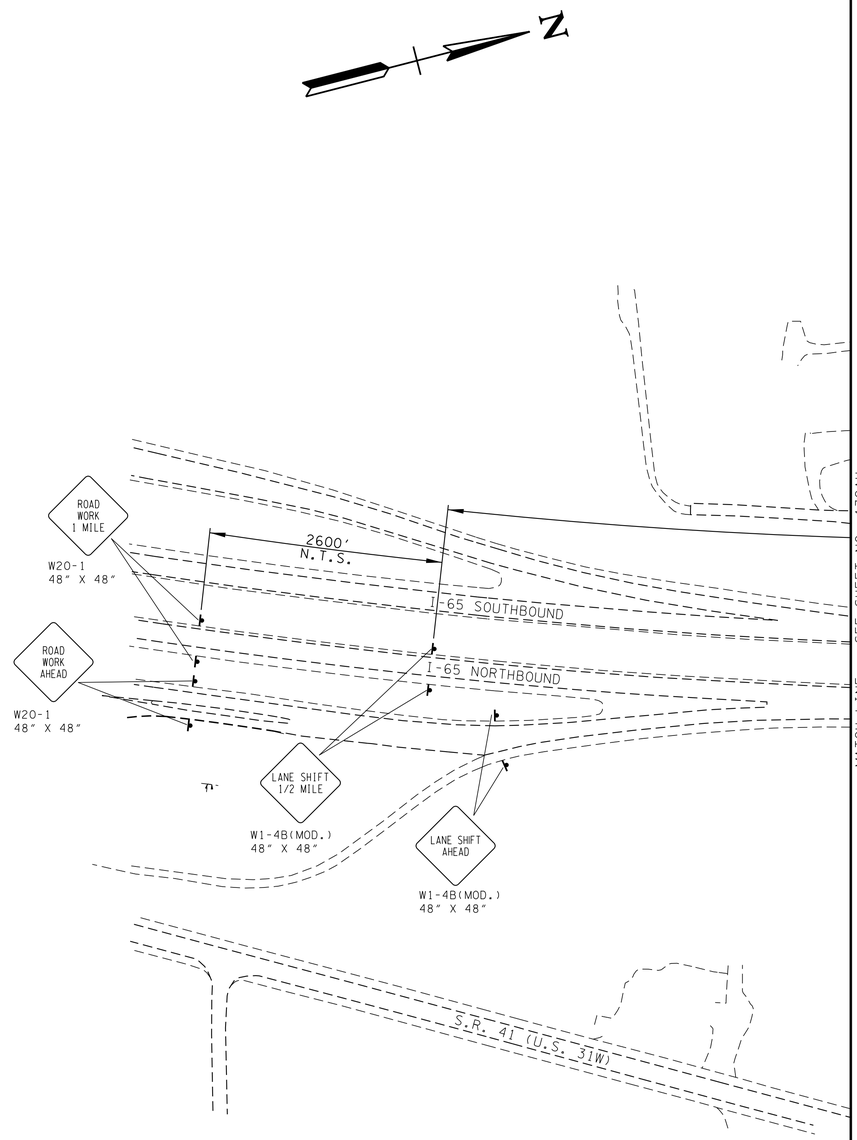
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AG



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
⊢	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

I-65
PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PRIOR TO B.O.P
SCALE: 1"=100'

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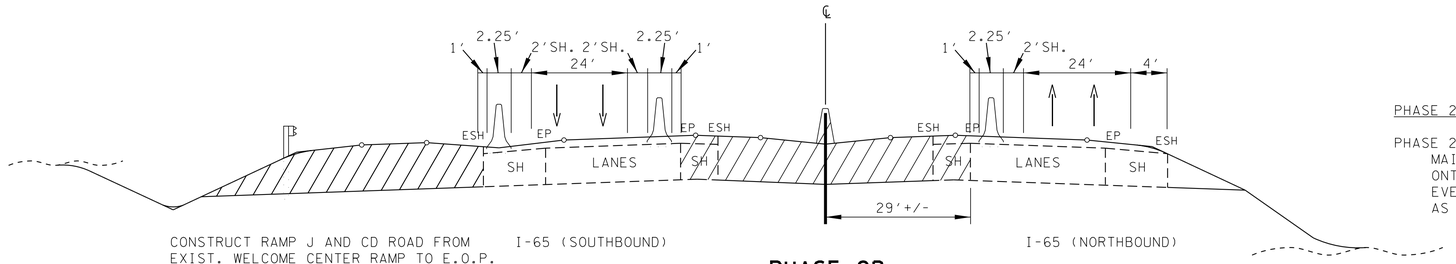
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AH



CONSTRUCT RAMP J AND CD ROAD FROM EXIST. WELCOME CENTER RAMP TO E.O.P.

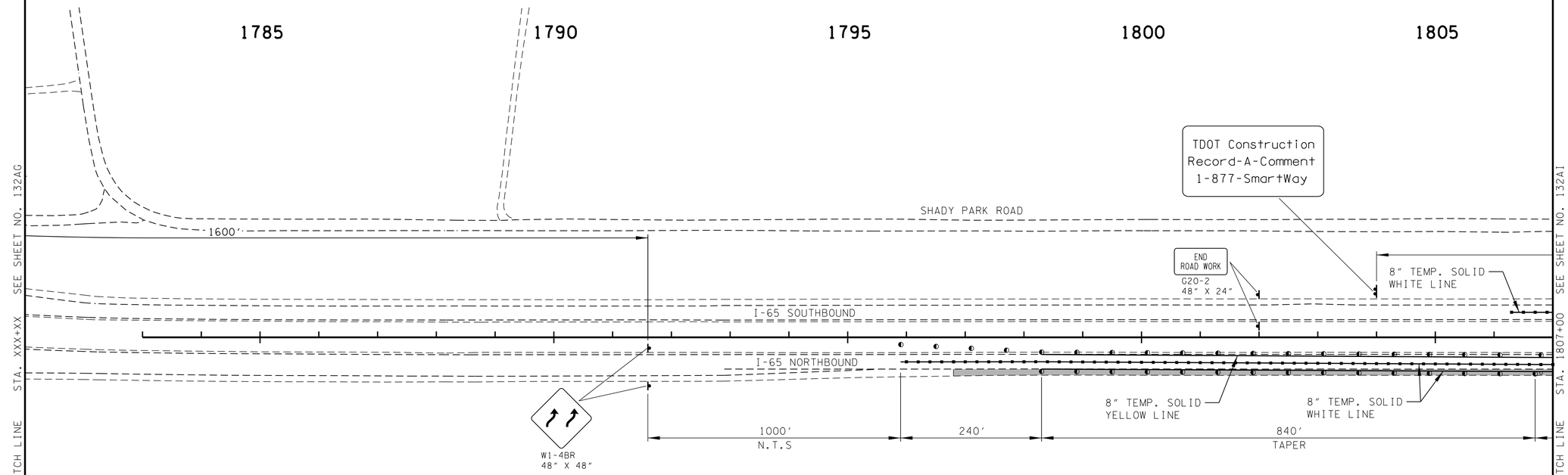
I-65 (SOUTHBOUND)

I-65 (NORTHBOUND)

PHASE 2B

PHASE 2 NOTES:

PHASE 2B:
MAINTAIN TWO LANES OF TRAFFIC BY SHIFTING TRAFFIC OUT ONTO SHOULDERS CONSTRUCTED IN PHASE 2A. CONSTRUCT EVERYTHING IN MEDIAN AND AS MUCH OF NEW INSIDE LANES AS POSSIBLE.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
▬	CONST. COMPLETED IN PREVIOUS PHASE
▸	SIGN (CONSTRUCTION)
■	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
○	FLEXIBLE DELINEATOR (GROUND MOUNTED)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65
PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

B.O.P TO STA.1807+00

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83"O"
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AI

REV. 04-02-14: UPDATED R.O.W. BEGIN PROJ. STATION.

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

N

1810 1815 1820 1825 1830

HIGHLAND ROAD
SHADY PARK ROAD
1000'
730'
BUFFER

W1-4BL
48" X 48"

8" TEMP. SOLID YELLOW LINE
8" TEMP. SOLID WHITE LINE
I-65 SOUTHBOUND
I-65 NORTHBOUND
SEE STD. DWG T-WZ-18 FOR PORTABLE BARRIER RAIL TAPERS

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456

720

SUMMERS BRANCH STR-1

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

SEE SHEET NO. 132AH FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

MATCH LINE STA. 1807+00 SEE SHEET NO. 132AH
MATCH LINE STA. 1833+00 SEE SHEET NO. 132AJ

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	SIGN (CONSTRUCTION)
	FLEXIBLE DELINEATOR (GROUND MOUNTED)
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1807+00 TO STA.1833+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83R
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AJ

N

PHASE 2 NOTES:
PHASE 2B:
CONSTRUCT ENOUGH OF OUTSIDE PORTION OF C-D ROAD/RAMP E TO CARRY WELCOME CENTER TRAFFIC IN PHASE 2C WITH 12' TRAVEL LANE AND 2' INSIDE SHOULDER.

STA. 479+33.29 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 114+44.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483

STA. 83+89.12 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491

R1-2
60" X 60" X 60"
YIELD

W3-2
48" X 48"

500'

WWC-2
WWC-3

SEE STD. DWG T-WZ-18 FOR PORTABLE BARRIER RAIL TAPERS

8" TEMP. SOLID YELLOW LINE
8" TEMP. SOLID WHITE LINE
8" TEMP. DASHED WHITE LINE

STR-1
BRANCH
SUMMERS

MATCH LINE STA. 1833+00 SEE SHEET NO. 132AI
MATCH LINE STA. 1859+00 SEE SHEET NO. 132AK
MATCH LINE STA. 376+00

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
○	FLEXIBLE DELINEATOR (GROUND MOUNTED)
■	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
◑	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)

SEE SHEET NO. 132AH FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1833+00 TO STA.1859+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83U
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AK

MATCH LINE

STA.36+33.67 LAKE SPRINGS ROAD
TIE TO S. OLD DETOUR ROAD
N 838098.3075
E 1799921.0201
(SEE SHEET 32 FOR PROFILE)

LAKE SPRINGS ROAD

PHASE 2 NOTES:
PHASE 2B:
ROUTE TRAFFIC EXITING WELCOME CENTER ONTO TEMPORARY RUNAROUND TYING TO EXISTING RAMP. SHIFT TRAVEL LANE ON EXISTING RAMP OUT TO MAINTAIN 12' TRAVEL LANE ADJACENT TO I-65 SB TRAVEL LANES.

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

W20-1
48" X 48"
ROAD WORK AHEAD

STA. 498+61.35 RAMP "I" C.L.=
N 838164.5942
E 1800145.4092

STA. 561+83.19 RAMP J
N 838789.8705
E 1800368.8780

ROAD CLOSED
DETOUR
R11-2
48" X 30"
M4-10L
48" X 18"

STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718
(SEE SHEET 52 FOR PROFILE)

8" TEMP. DASHED WHITE LINE

STA. 503+41.00 RAMP "I" C.L.=
12.00' RT. STA. 689+41.27 C-D ROAD
N 837700.3757
E 1800226.8495

8" TEMP. SOLID YELLOW LINE
I-65 SOUTHBOUND

8" TEMP. SOLID WHITE LINE

8" TEMP. SOLID YELLOW LINE

I-65 NORTHBOUND

SEE STD. DWG T-WZ-18 FOR PORTABLE BARRIER RAIL TAPERS

8" TEMP. SOLID WHITE LINE

W1-4BL
48" X 48"

EXIT
E5-1
72" X 60"

EXIT OPEN
E5-2
48" X 36"

1000'

STA. 217+84.74 RAMP C C.L.=
68.30' RT STA. 1865+65.11 I-65
N 838148.4581
E 1800513.3190

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

TENNESSEE
KENTUCKY

MATCH LINE STA. 1859+00 SEE SHEET NO. 132AJ

MATCH LINE STA. 1885+00 SEE SHEET NO. 132AL

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMPORARY BARRICADE (TYPE III)
	SIGN (CONSTRUCTION)
	TEMPORARY ATTENUATOR
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
	FLEXIBLE DELINEATOR (GROUND MOUNTED)

SEE SHEET NO. 132AH FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

I-65
PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1859+00 TO STA.1885+00
SCALE: 1"=100'

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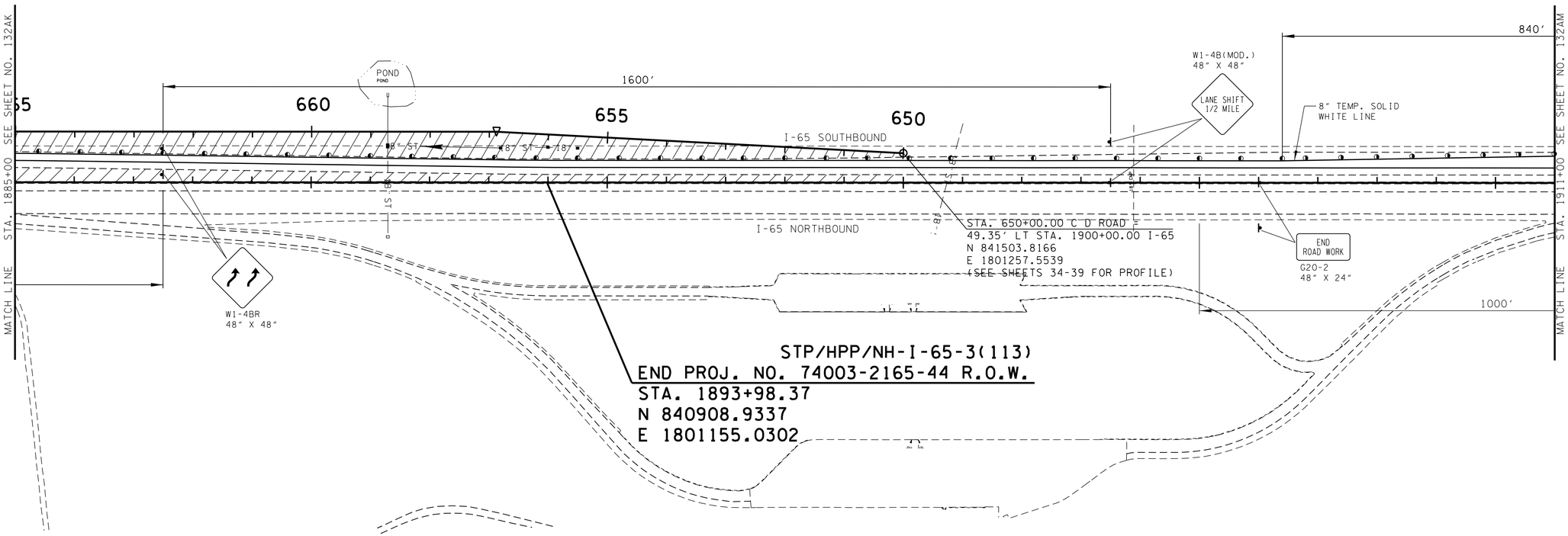
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83W
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AL

N

85 1890 1895 1900 1905 1910



SEE SHEET NO. 132AH
FOR TRAFFIC CONTROL
TYPICAL SECTION
DETAILS

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

I-65
PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.1885+00 TO 1911+00
SCALE: 1"=100'

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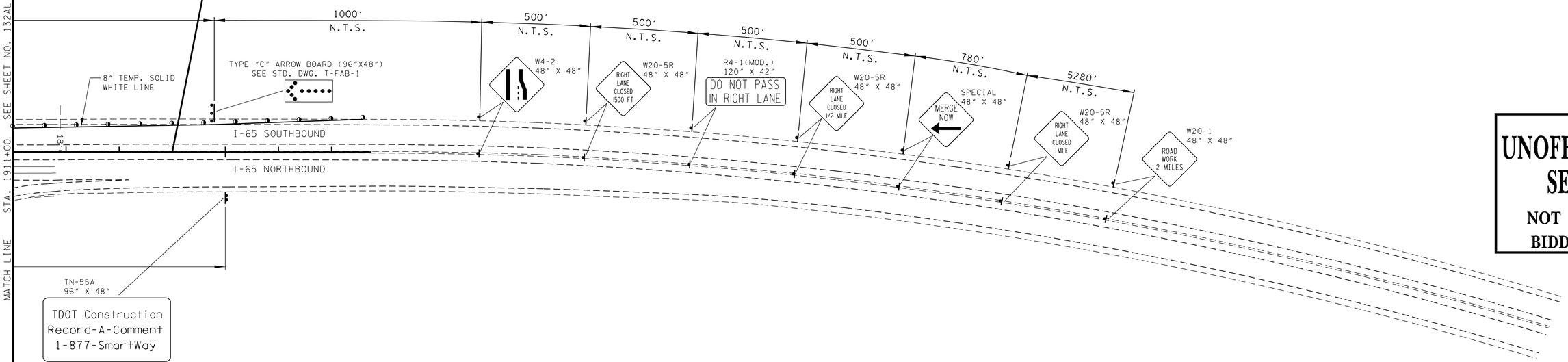
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AM

1915

74003-3168-44

END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
▮	SIGN (CONSTRUCTION)
■	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
⋮	ARROW BOARD TYPE C

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65 PHASE 2B

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA. 1885+00 TO E.O.P.

SCALE: 1″=100′

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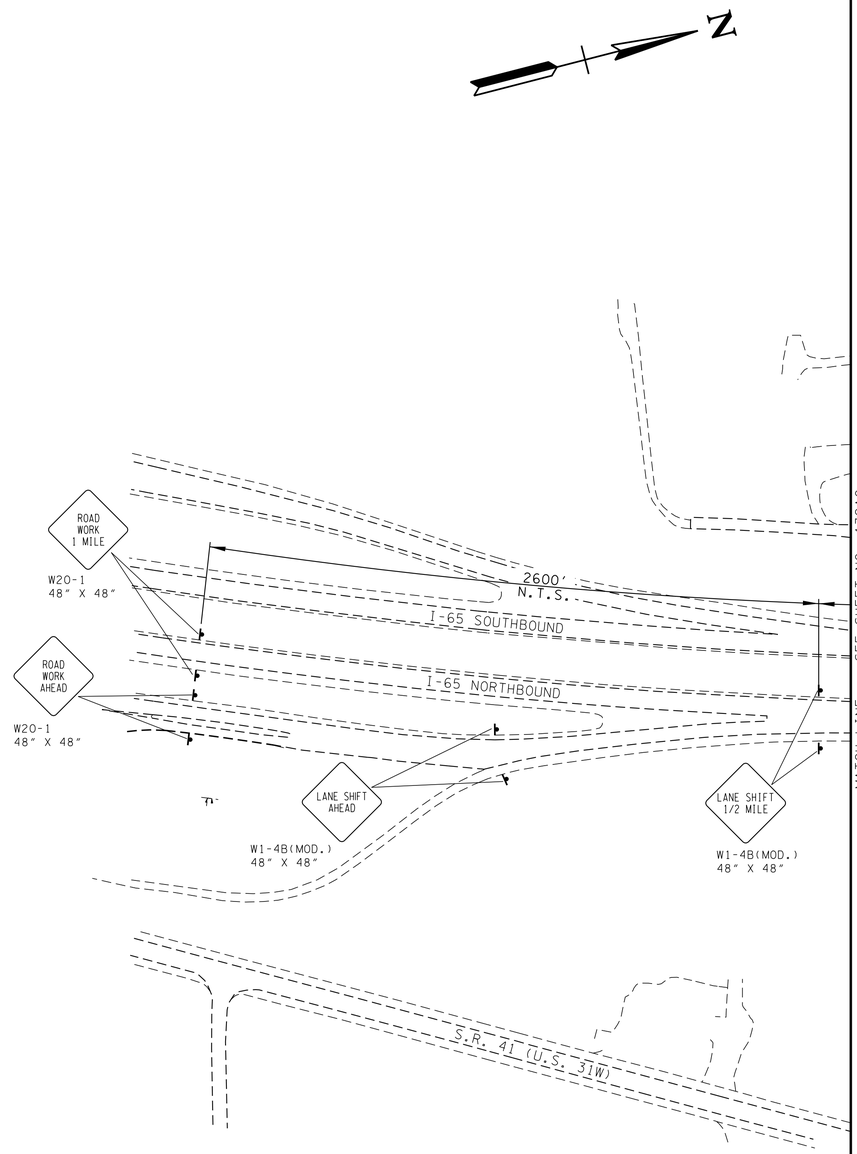
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AN



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
⊢	SIGN (CONSTRUCTION)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

PRIOR TO B.O.P

SCALE: 1"=100'

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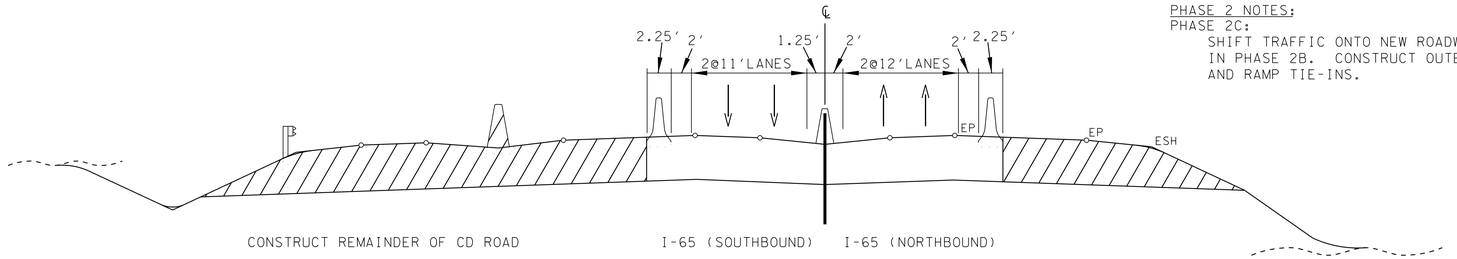
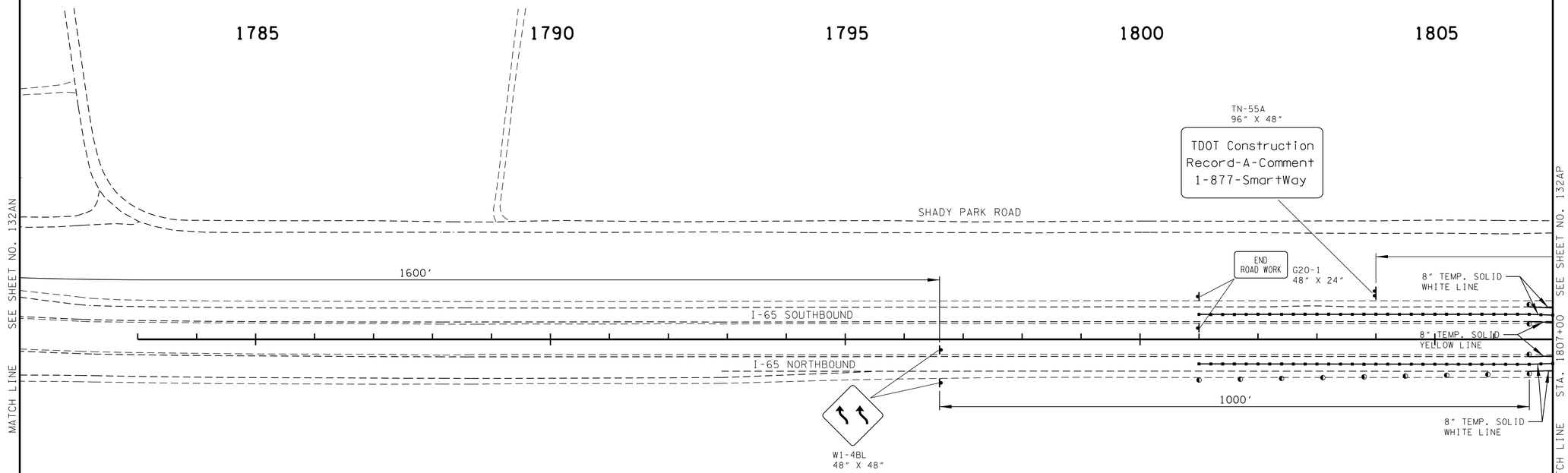
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132A0

PHASE 2 NOTES:
PHASE 2C:
SHIFT TRAFFIC ONTO NEW ROADWAY AND SHOULDERS CONSTRUCTED IN PHASE 2B. CONSTRUCT OUTER LANES, SHOULDERS, CD ROAD, AND RAMP TIE-INS.



PHASE 2C



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
⊦	SIGN (CONSTRUCTION)
■	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
◑	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

B.O.P TO STA.1807+00

SCALE: 1"=100'

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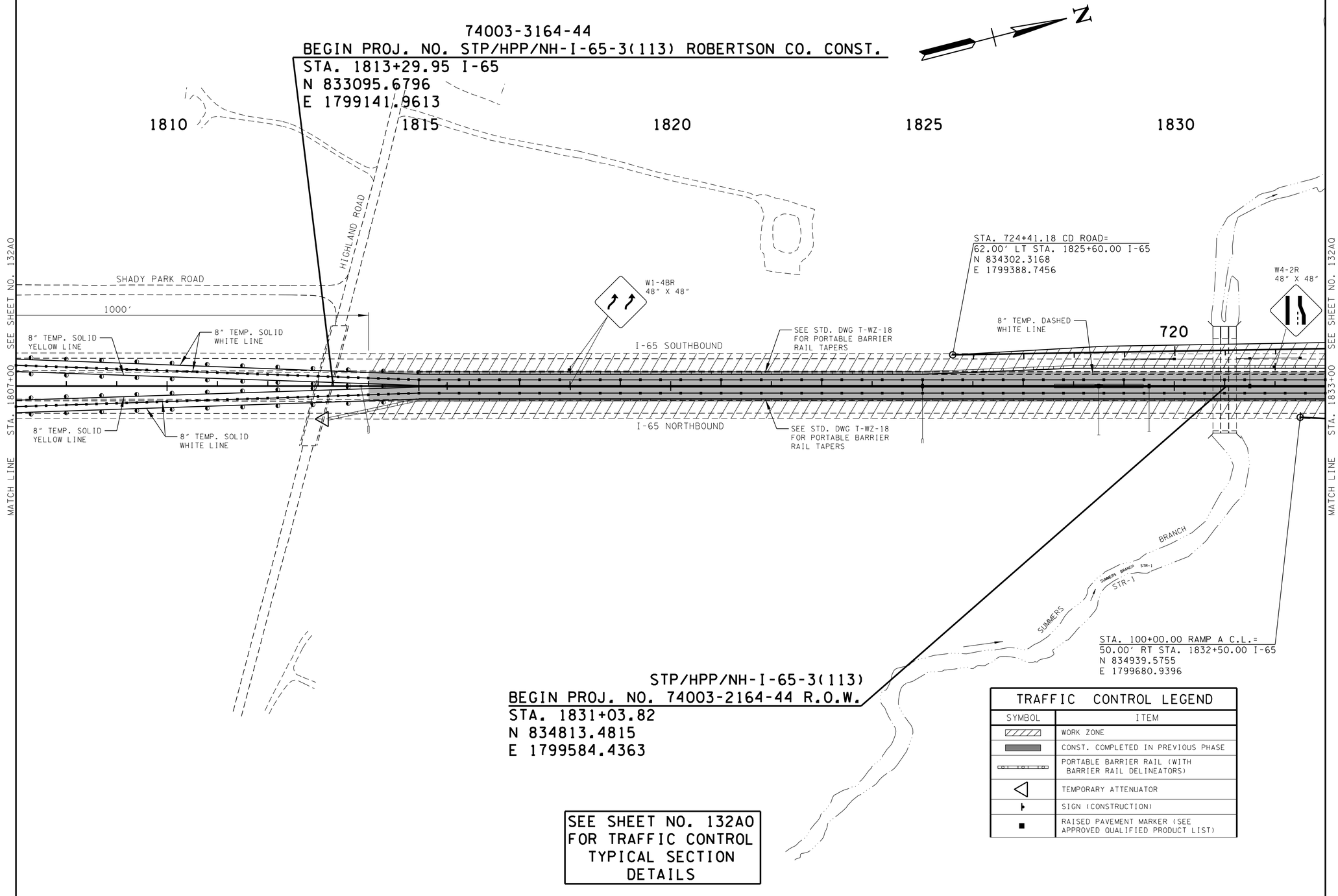
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83P
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AP

REV. 04-02-14: UPDATED R.O.W. BEGIN PROJ. STATION.

PHASE 2 NOTES:
PHASE 2C:
MAINTAIN WELCOME CENTER TRAFFIC ON PORTION OF C-D ROAD/RAMP E CONSTRUCTED IN PHASE 2B THEN SHIFT TO AUXILLRY LANE ADJACENT TO I-65 SB TRAFFIC THIS PHASE.

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613



STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

SEE SHEET NO. 132AO FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	SIGN (CONSTRUCTION)
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA. 1807+00 TO STA. 1833+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83S
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AO

N

BRANCH
STR-1
SUMMERS

PHASE 2 NOTES:
PHASE 2C:
MAINTAIN WELCOME CENTER TRAFFIC ON PORTION OF C-D ROAD/RAMP E CONSTRUCTED IN PHASE 2B THEN SHIFT TO AUXILLRY LANE ADJACENT TO I-65 SB TRAFFIC THIS PHASE.

STA. 479+33.29 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

W4-1
48" X 48"

W1-4L
48" X 48"

W1-4L
36" X 36"

SEE STD. DWG T-WZ-18 FOR PORTABLE BARRIER RAIL TAPERS

8" TEMP. SOLID YELLOW LINE
8" TEMP. SOLID WHITE LINE

8" TEMP. DASHED WHITE LINE

STA. 114+44.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483

STA. 83+89.12 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491

MATCH LINE STA. 396+00

MATCH LINE STA. 376+00

STA. 1833+00 SEE SHEET NO. 132AP

STA. 1859+00 SEE SHEET NO. 132AR

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
	TEMPORARY ATTENUATOR
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)

SEE SHEET NO. 132AO FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1833+00 TO STA.1859+00
SCALE: 1"=100'

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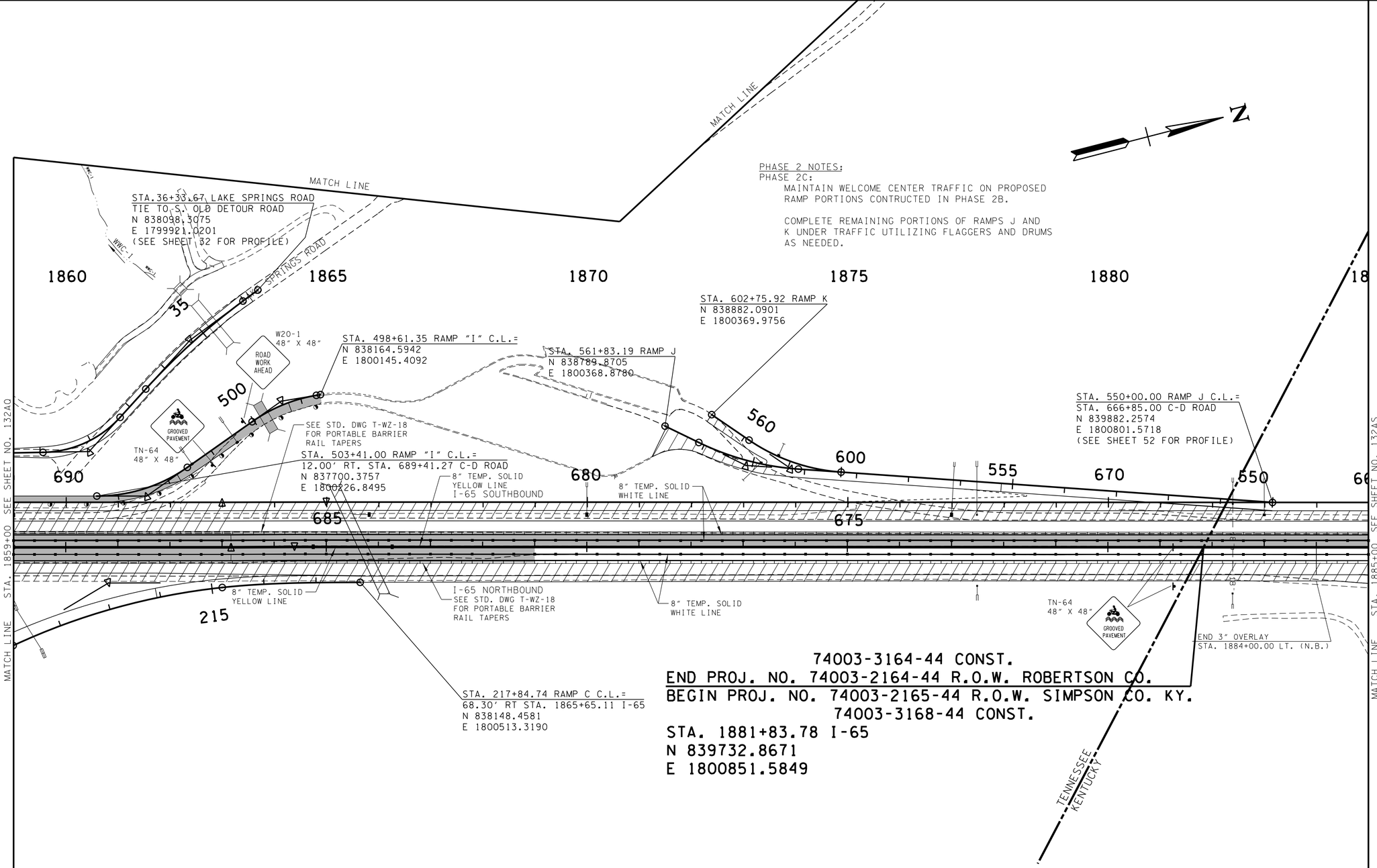
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83V
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AR



PHASE 2 NOTES:
PHASE 2C:
MAINTAIN WELCOME CENTER TRAFFIC ON PROPOSED RAMP PORTIONS CONTRUCTED IN PHASE 2B.

COMPLETE REMAINING PORTIONS OF RAMPS J AND K UNDER TRAFFIC UTILIZING FLAGGERS AND DRUMS AS NEEDED.

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

SEE SHEET NO. 132AO FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1859+00 TO STA.1885+00
SCALE: 1"=100'

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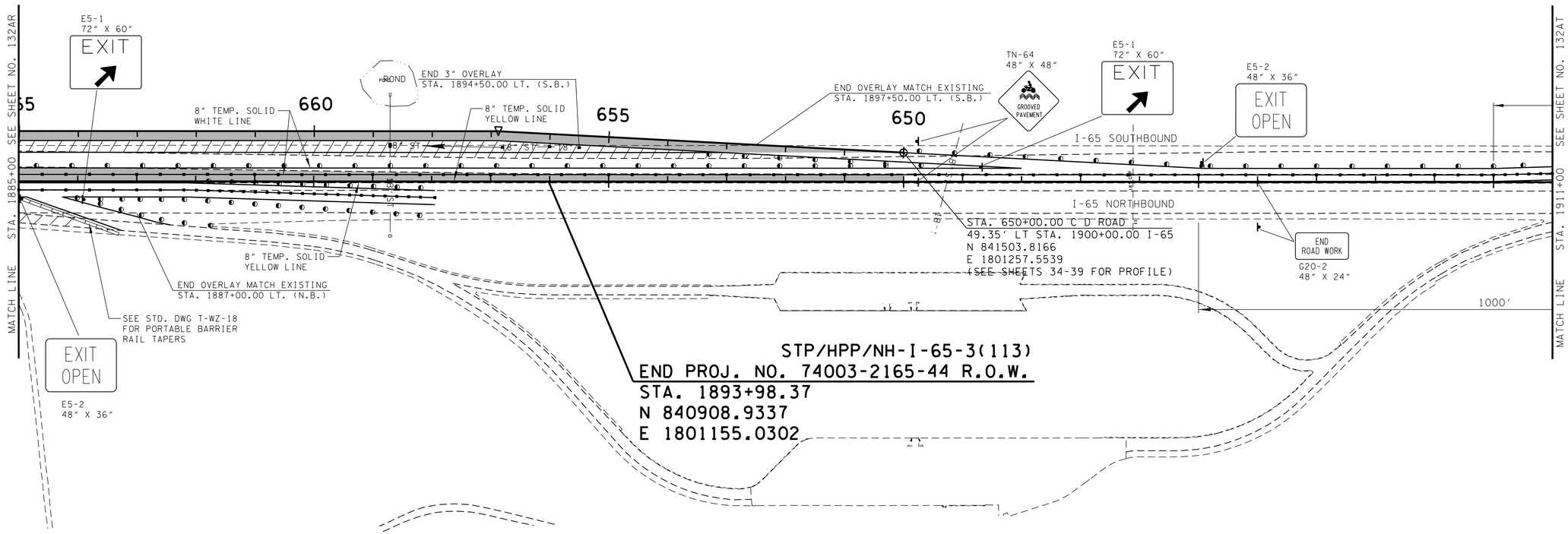
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83X
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AS

PHASE 2 NOTES:
PHASE 2C:
MAINTAIN WELCOME CENTER TRAFFIC ON PROPOSED C-D ROAD CONSTRUCTED IN PHASE 2B.

N

1885 1890 1895 1900 1905 1910



STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

SEE SHEET NO. 132AO FOR TRAFFIC CONTROL TYPICAL SECTION DETAILS

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1885+00 TO E.O.P.
SCALE: 1"=100'

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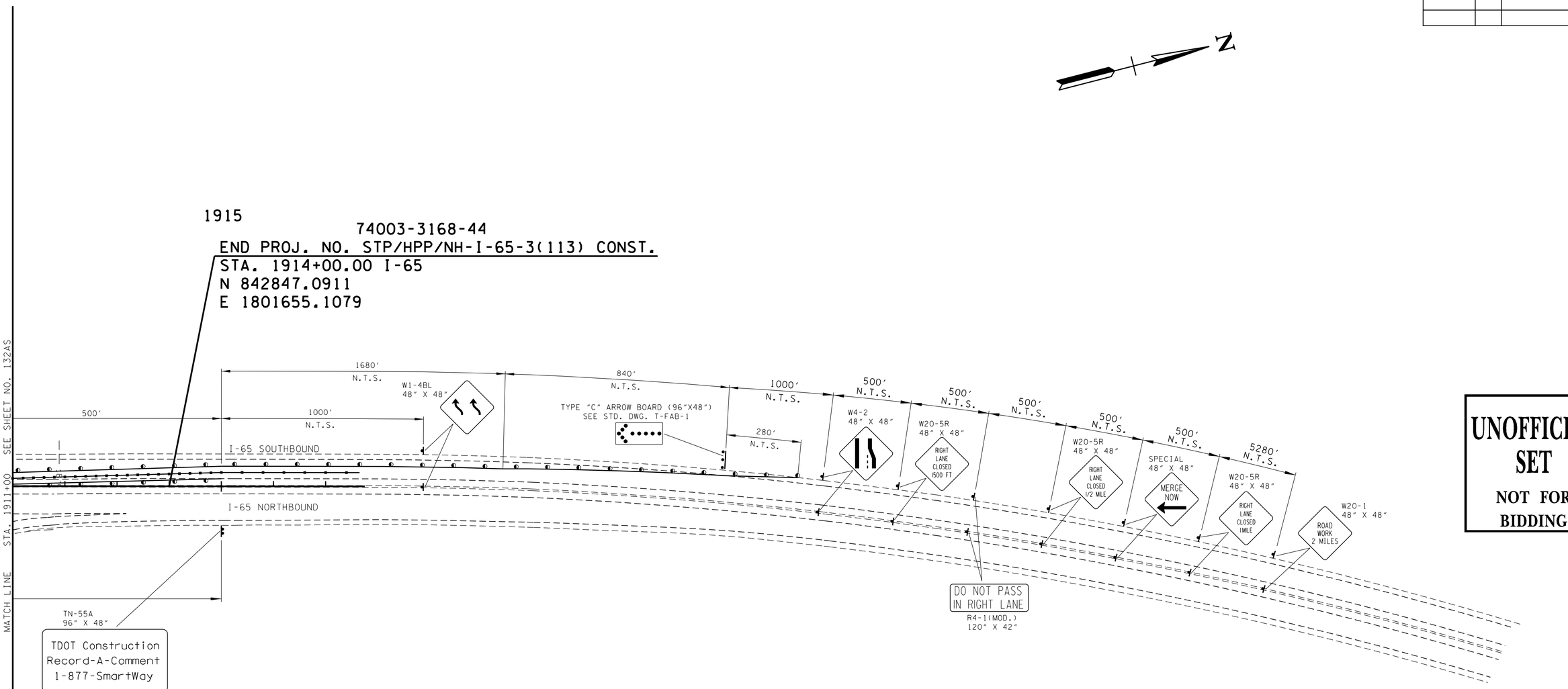
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AT

1915

74003-3168-44

END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▨	WORK ZONE
▸	SIGN (CONSTRUCTION)
■	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
◑	FLEXIBLE DRUMS (CHANNELIZING)
⁞	ARROW BOARD TYPE C

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA. 1911+00 TO E.O.P.

SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AU

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1810 1815 1820 1825 1830

PHASE 2 NOTES:
PHASE 2D:
MAINTAIN TRAFFIC EXITING WELCOME CENTER ON COMPLETED C-D ROAD ALIGNMENT AND COMPLETE THE REMAINING PORTION OF CONSTRUCTION IN AREA OF SLIP RAMP USED FOR PHASE 2C.

I-65 SB TRAFFIC CONTROL SAME AS PHASE 2C FROM 1835+00 TO E.O.P.

TN-55A
96" X 48"
TDOT Construction
Record-A-Comment
1-877-SmartWay

1000'
N.T.S.

HIGHLAND ROAD

I-65 SOUTHBOUND

I-65 NORTHBOUND

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456

8" TEMP. SOLID YELLOW LINE

8" TEMP. SOLID YELLOW LINE

720

SUMMERS BRANCH STR-1

STR-1

SUMMERS BRANCH

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	SIGN (CONSTRUCTION)
	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)

MATCH LINE STA. 1833+00 SEE SHEET NO. 132AV

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2D

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1807+00 TO STA.1833+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	83S
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AV

N

PHASE 2 NOTES:
PHASE 2D:
MAINTAIN TRAFFIC EXITING WELCOME CENTER ON COMPLETED C-D ROAD ALIGNMENT AND COMPLETE THE REMAINING PORTION OF CONSTRUCTION IN AREA OF SLIP RAMP USED FOR PHASE 2C.

I-65 SB TRAFFIC CONTROL SAME AS PHASE 2C FROM 1835+00 TO E.O.P.

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706

STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885

STA. 300+00.00 RAMP E C.L.=
98.00' LT STA. 1848+76.75 I-65
N 836554.8109
E 1799931.7726

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139

STA. 697+87.57 CD ROAD C.L.=
STA. 385+86.33 S.R. 109
N 836877.8346
E 1800027.3694

STA. 479+33.29 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078

W1-4BR
48" X 48"

SEE STD. DWG T-WZ-18 FOR PORTABLE BARRIER RAIL TAPERS

8" TEMP. SOLID WHITE LINE

8" TEMP. SOLID YELLOW LINE

8" TEMP. SOLID YELLOW LINE

8" TEMP. SOLID WHITE LINE

STA. 114+44.76 RAMP A C.L. =
STA. 150+00.00 RAMP B
N 836227.6987
E 1800299.1533

STA. 1851+69.99 I-65 C.L.=
STA. 384+89.99 S.R. 109
N 836814.3413
E 1800099.8219

STA. 380+00.00 S.R. 109 C.L. =
STA. 117+58.19 RAMP A LT.
STA. 250+00.00 RAMP D RT.
N 836491.3977
E 1800468.3342

STA. 200+00.00 RAMP C C.L. =
49.00' RT STA. 378+28.42 S.R. 109
N 836415.1642
E 1800629.6710

STA. 154+16.60 RAMP B C.L. =
37.00' LT STA. 377+02.46 S.R. 109
N 836267.4720
E 1800667.7177

STA. 251+83.57 RAMP D C.L. =
12.00' LT STA. 202+68.30 RAMP C
N 836659.9012
E 1800537.0483

STA. 83+89.12 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 837124.5487
E 1800773.6776

STA. 80+00.00 LAKE SPRINGS ROAD
TIE TO FRED WHITE BLVD.
N 836822.5254
E 1800776.8491

MATCH LINE STA. 1833+00 SEE SHEET NO. 132AU

MATCH LINE STA. 1859+00

MATCH LINE STA. 396+00

MATCH LINE STA. 376+00

STR-1

SUMMERS BRANCH

WWC-2

WWC-3

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
■	RAISED PAVEMENT MARKER (SEE APPROVED QUALIFIED PRODUCT LIST)
	TEMPORARY ATTENUATOR
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

I-65
PHASE 2D

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.1833+00 TO STA.1859+00
SCALE: 1"=100'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

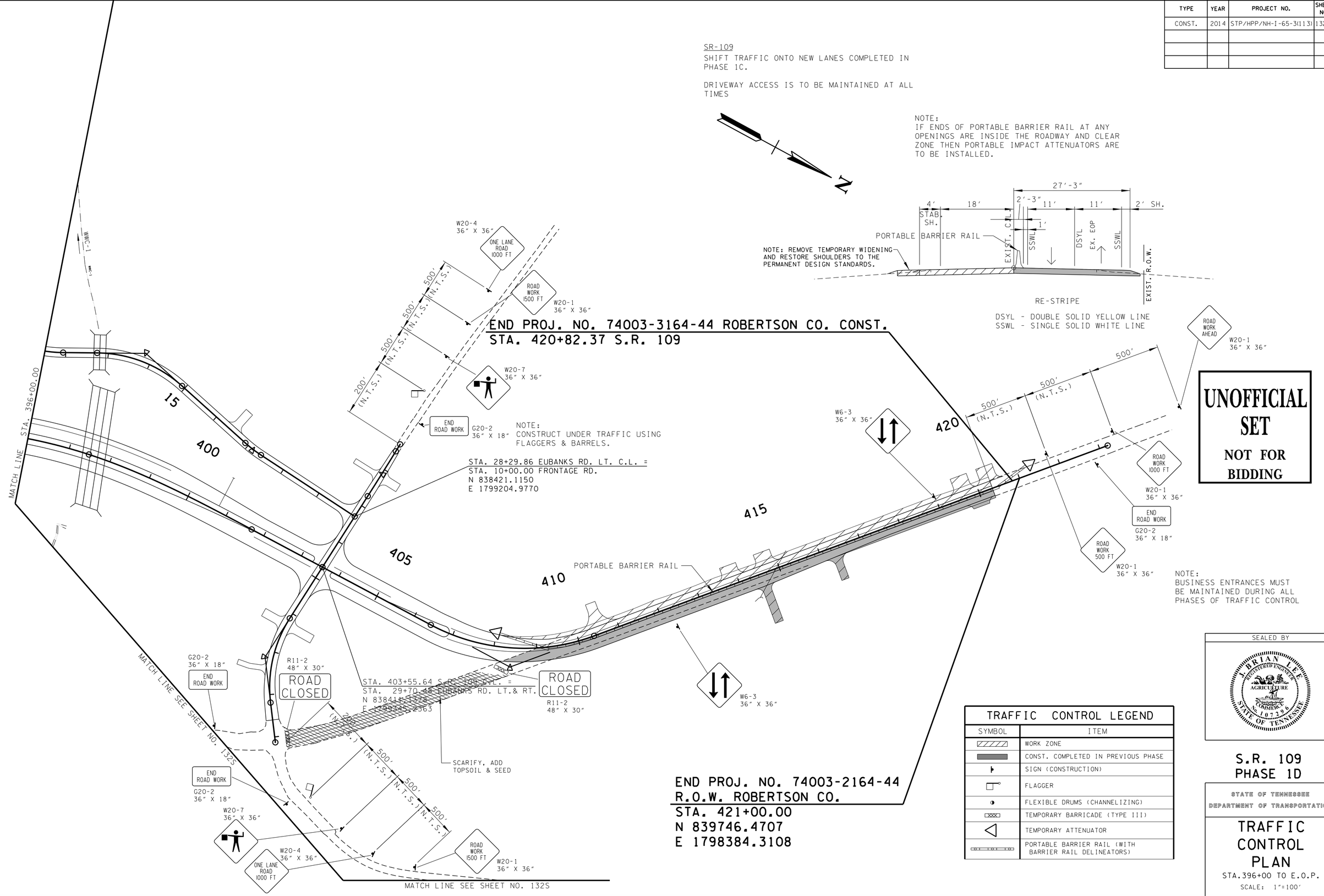
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	132AW

SR-109
SHIFT TRAFFIC ONTO NEW LANES COMPLETED IN PHASE 1C.

DRIVEWAY ACCESS IS TO BE MAINTAINED AT ALL TIMES

NOTE:
IF ENDS OF PORTABLE BARRIER RAIL AT ANY OPENINGS ARE INSIDE THE ROADWAY AND CLEAR ZONE THEN PORTABLE IMPACT ATTENUATORS ARE TO BE INSTALLED.

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109



END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	CONST. COMPLETED IN PREVIOUS PHASE
	SIGN (CONSTRUCTION)
	FLAGGER
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMPORARY BARRICADE (TYPE III)
	TEMPORARY ATTENUATOR
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

S.R. 109
PHASE 1D

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STA.396+00 TO E.O.P.
SCALE: 1"=100'

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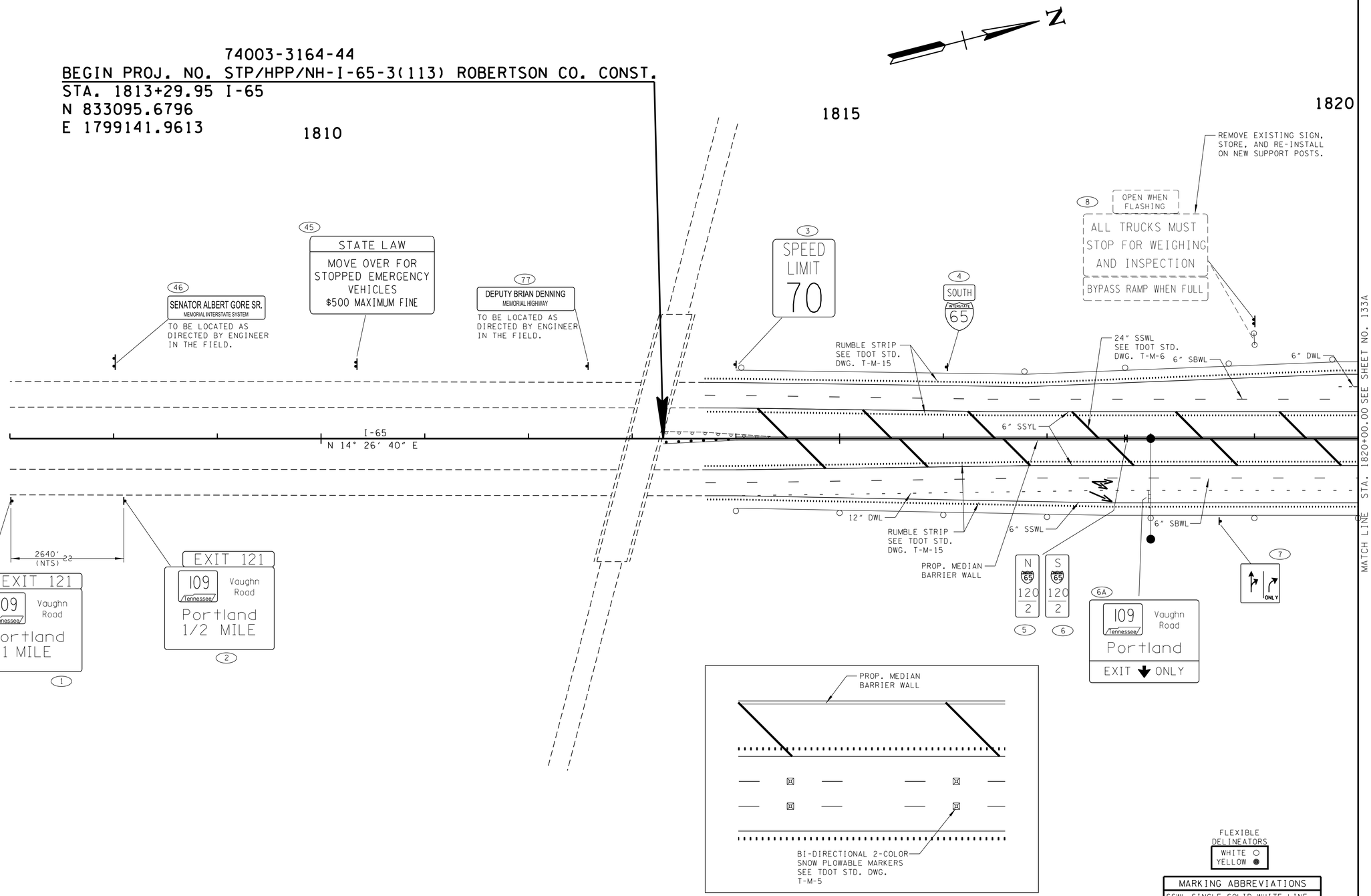
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84
CONST.	2014	STP/HPP/NH-I-65-3(113)	133

74003-3164-44
BEGIN PROJ. NO. STP/HPP/NH-I-65-3(113) ROBERTSON CO. CONST.
STA. 1813+29.95 I-65
N 833095.6796
E 1799141.9613

1810 1815 1820



SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ◉

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
B.O.P. TO STA.1820+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84A
CONST.	2014	STP/HPP/NH-I-65-3(113)	133A

REV. 04-02-14: UPDATED R.O.W. BEGIN PROJ. STATION.

STP/HPP/NH-I-65-3(113)
BEGIN PROJ. NO. 74003-2164-44 R.O.W.
STA. 1831+03.82
N 834813.4815
E 1799584.4363

1820 1825 1830

STA. 724+41.18 CD ROAD=
62.00' LT STA. 1825+60.00 I-65
N 834302.3168
E 1799388.7456
(SEE SHEETS 34-39 FOR PROFILE)

N I-65 120 4 (12)
S I-65 120 4 (13)

(14) TRUCK INSPECTION & WEIGH STATION 1 MILE

TO BE REMOVED
TRUCK INSPECTION & WEIGHING STATION 1 MILE

(9) ALL TRUCKS MUST STOP FOR INSPECTION

REMOVE EXISTING SIGN, STORE, AND RE-INSTALL ON NEW SUPPORT POSTS.

RELOCATE SENSOR AS DIRECTED BY ENGINEER IN THE FIELD.

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15

6" SSWL
6" DWL
6" SBWL
100'
24" SSWL SEE TDOT STD. DWG. T-M-6
8" SSWL
6" SSWL
720
S 13° 29' 22" W
6" DWL
6" SSWL
24" SSWL SEE TDOT STD. DWG. T-M-6
6" SSYL

MATCH LINE STA. 1820+00.00 SEE SHEET NO. 133

6" SSYL
N 14° 26' 40" E
I-65

3° DIVERGENCE

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 133B

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15
12" DWL
6" SSWL
(10) ONLY
6" SBWL
(11) EXIT 50 M.P.H
PROP. MEDIAN BARRIER WALL
RUMBLE STRIP SEE TDOT STD. DWG. T-M-15
12" SSWL
100'

PROP. MEDIAN BARRIER WALL
BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS SEE TDOT STD. DWG. T-M-5

SNOWPLOWABLE MARKERS DETAIL
SCALE: 2X

STA. 100+00.00 RAMP A C.L.=
50.00' RT STA. 1832+50.00 I-65
N 834939.5755
E 1799680.9396
(SEE SHEETS 40-41 FOR PROFILE)

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE REGISTERED ENGINEER AGRICULTURE No. 107296 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1820+00 TO STA.1833+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84B
CONST.	2014	STP/HPP/NH-I-65-3(113)	133B

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 133C

MATCH LINE - RAMP E
STA. 306+54.27

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 48-50 FOR PROFILE)

N

1835

LANE ENDS 600 FEET (22)

TRUCK INSPECTION & WEIGHT STATION 1 MILE

LANE ENDS MERGE LEFT (20)

(21)

24" SSWL SEE TDOT STD. DWG. T-M-6 TO BE REMOVED

PrePass FOLLOW IN-CAB SIGNALS

8" SSWL

6" SSWL

24" SSWL SEE TDOT STD. DWG. T-M-6

475 (23)

(324)

RAMP H

1840

TO BE REMOVED

SPEED LIMIT 70

710

(27)

N 65 120 6 (24)

S 65 120 6 (25)

S 13° 29' 22" W

S 13° 29' 22" W

24" SSWL SEE TDOT STD. DWG. T-M-6

6" SSWL

6" SSWL

6" SSYL

6" SBWL

PROP. BARRIER WALL

6" SSYL

715

6" DWL

N 14° 36' 40" E

I-65

8" SSWL

6" SSWL

6" SSYL

PROP. MEDIAN BARRIER WALL

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15

6" SBWL

SEE T-M-5 FOR TYPICAL LANE REDUCTION TRANSITION

3° DIVERGENCE N 17° 26' 40" E

12" SSWL

12" SSWL

24" SSWL SEE TDOT STD. DWG. T-M-7

6" SBWL

RAMP A

6" SSWL

6" SBWL

6" SSYL

105

EXIT 121

109 Tennessee Vaughn Road

Portland

↗ EXIT ONLY ↗

(15)

REST AREA

WELCOME CENTER 1 MILE

TO BE REMOVED

REST AREA

WELCOME CENTER 1 MILE

(16)

EXIT 121 ↗

(17)

110

(18)

109 Tennessee SOUTH ↗

← Vaughn Rd

(19)

RAMP 30 MPH

N 38° 00' 03" E

MATCH LINE - RAMP A
STA. 113+50.00
SEE SHEET NO. 133S

305

1845

6" SSWL

6" SSYL

RAMP E

(28) (29) (30)

(31)

SOUTH INTERSTATE 65

705

TO BE REMOVED

SOUTH INTERSTATE 65

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 133A

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 133D

PROP. MEDIAN BARRIER WALL

BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS SEE TDOT STD. DWG. T-M-5

SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1833+00 TO STA.1846+00

SCALE: 1"=50'

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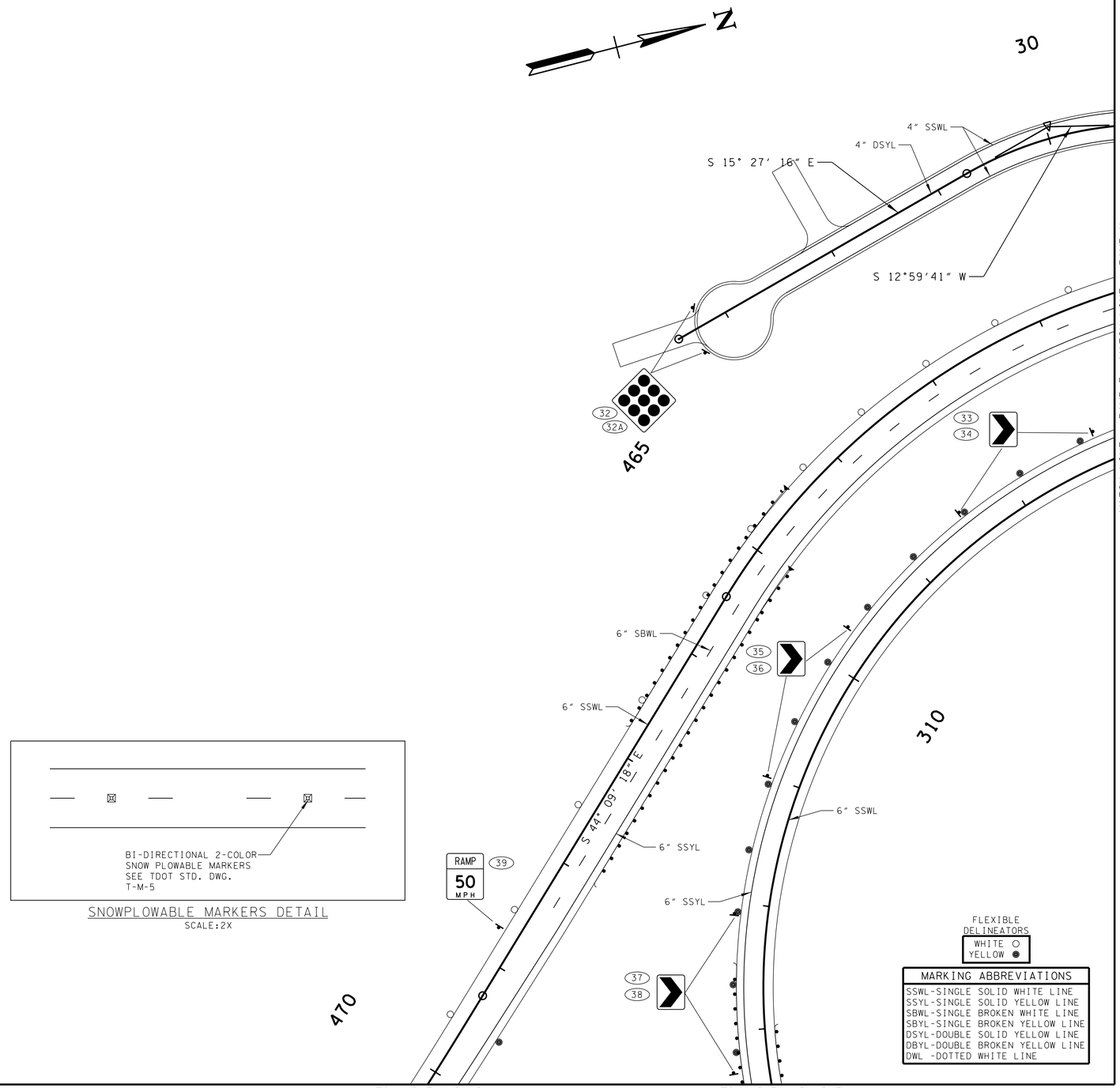
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84C
CONST.	2014	STP/HPP/NH-I-65-3(113)	133C

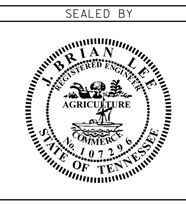


BI-DIRECTIONAL 2-COLOR
SNOW PLOWABLE MARKERS
SEE TDOT STD. DWG.
T-M-5

SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

RAMPS E & H

SCALE: 1"=50'

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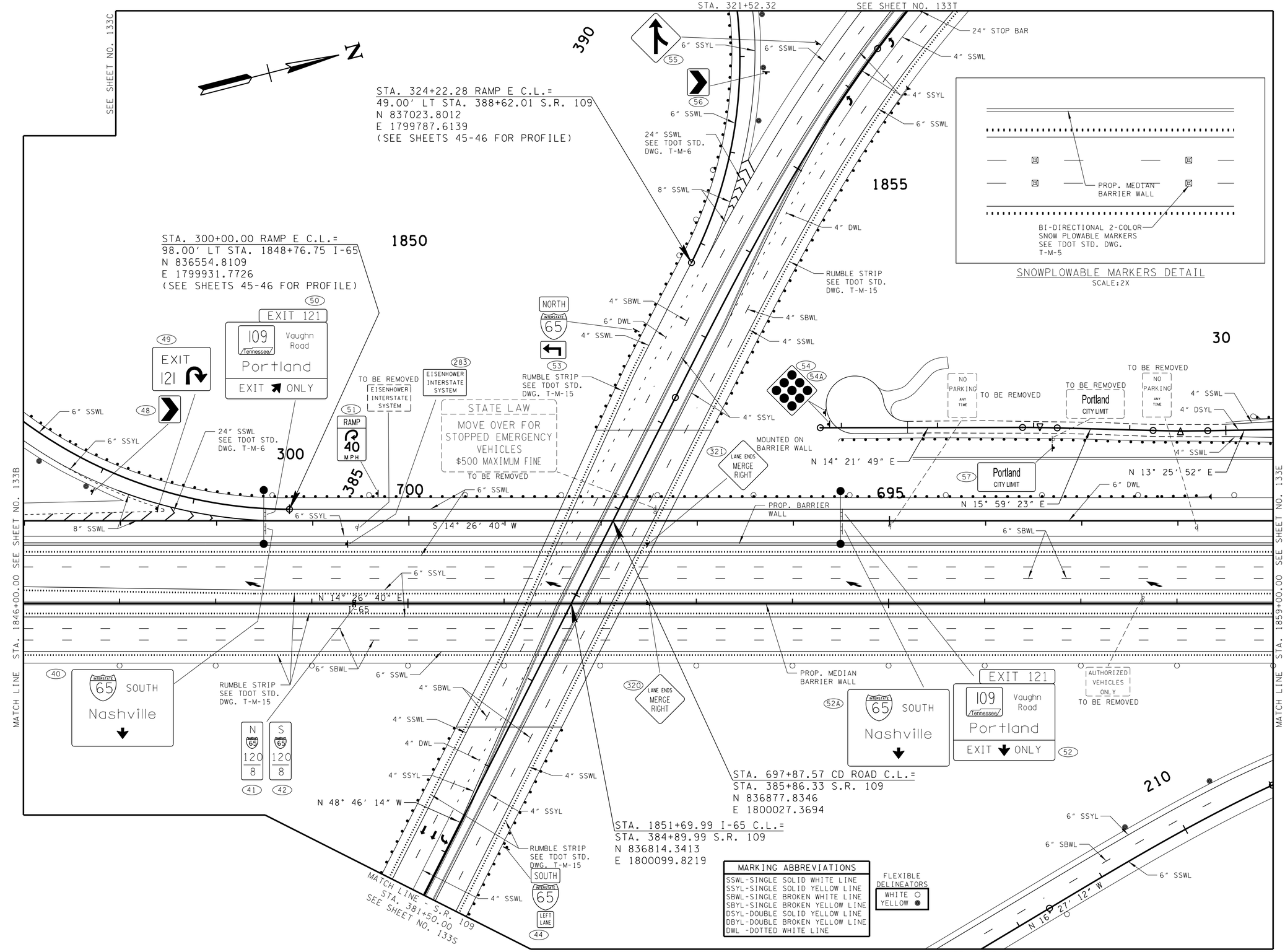
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84D
CONST.	2014	STP/HPP/NH-I-65-3(113)	133D



MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

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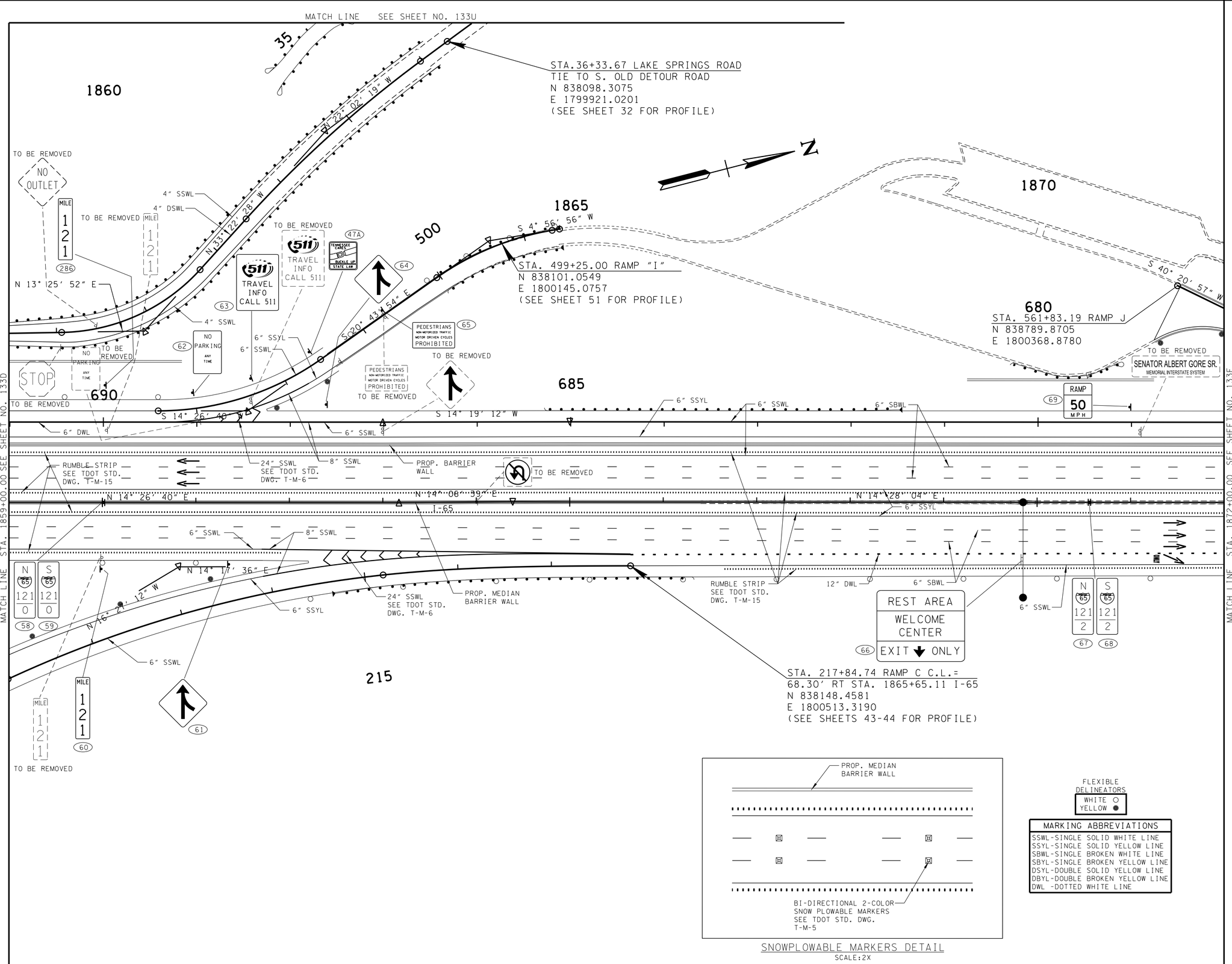
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84E
CONST.	2014	STP/HPP/NH-I-65-3(113)	133E

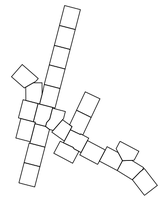


SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ◉

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1859+00 TO STA.1872+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84F
CONST.	2014	STP/HPP/NH-I-65-3(113)	133F

N

STA. 602+75.92 RAMP K
N 838882.0901
E 1800369.9756

TRUCKS-TRUCKS WITH TRAILERS ↖ CAMPERS
CARS ↗
72
1875

S 48° 44' 19" W

TO BE REMOVED
SPEED LIMIT 15
SPEED LIMIT 15
71

TO BE REMOVED
WELCOME CENTER

TO BE REMOVED
EXIT 30 M.P.H.

WELCOME CENTER
73

6" SSWL
6" SSYL
6" SBWL
6" SSWL
6" SSYL
6" SSWL
6" SSWL
6" SSWL
6" SSYL
6" SSWL
6" SBWL
6" SSWL
12" DWL

560
600
675
555
S 18° 28' 04" W
S 14° 28' 04" W
670
N 14° 28' 04" E

STA. 600+00.00 RAMP K C.L.=
STA. 558+29.96 RAMP J
N 839095.0387
E 1800538.6643
(SEE SHEET 52 FOR PROFILE)

47
TENNESSEE CARES 901 BICYCLE UP STATE LAW

RAMP 30 MPH
74

24" SSWL
SEE TDOT STD. DWG. T-M-6

TO BE REMOVED
TENNESSEE CARES 901 BICYCLE UP STATE LAW

4" DIVERGENCE

EXIT 121
75
109 Tennessee
Vaughn Road
Portland

1880
STA. 550+00.00 RAMP J C.L.=
STA. 666+85.00 C-D ROAD
N 839882.2574
E 1800801.5718
(SEE SHEET 52 FOR PROFILE)

76
WELCOME CENTER

TO BE REMOVED
DEPUTY BRIAN DENNING MEMORIAL HIGHWAY

TO BE REMOVED
MILE 0

78
MILE 0

PROP. BARRIER WALL

TO BE REMOVED
Tennessee The Volunteer State Welcomes You

TENNESSEE
KENTUCKY

1885
Tennessee The Volunteer State Welcomes You
79

TO BE REMOVED
END TRUCK LANE RESTRICTION

550
END TRUCK LANE RESTRICTION
80

TO REMAIN
END TRUCK LANE RESTRICTION

MATCH LINE STA. 1872+00.00 SEE SHEET NO. 133E

MATCH LINE STA. 1885+00.00 SEE SHEET NO. 133G

LEFT LANE ENDS 1/2 MILE
322
323

REST AREA NEXT RIGHT
TO BE REMOVED

81
NORTH INTERSTATE 65

RUMBLE STRIP
SEE TDOT STD. DWG. T-M-15

N 65 121 4
S 65 121 4
82
83

TO BE REMOVED
MILE 0
85

MILE 0

NORTH 65 MILE 0 0
SOUTH 65 MILE 0 0
TO REMAIN

Simpson COUNTY
86

REMOVE EXISTING SIGN, STORE, AND RE-INSTALL ON NEW SUPPORT POSTS.

12" SSWL
87

REST AREA
WELCOME CENTER
EXIT ↗ ONLY

WELCOME TO
Kentucky
UNBRIDLED SPIRIT
Steven L. Beshear, Governor
Birthplace of Abraham Lincoln
84

END 3" OVERLAY
STA. 1884+00.00 LT. (N.B.)

TENNESSEE
KENTUCKY

74003-3164-44 CONST.
END PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
BEGIN PROJ. NO. 74003-2165-44 R.O.W. SIMPSON CO. KY.
74003-3168-44 CONST.
STA. 1881+83.78 I-65
N 839732.8671
E 1800851.5849

BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS SEE TDOT STD. DWG. T-M-5

SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ◉

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107206
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1872+00 TO STA.1885+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84G
CONST.	2014	STP/HPP/NH-I-65-3(113)	133G

STP/HPP/NH-I-65-3(113)
END PROJ. NO. 74003-2165-44 R.O.W.
STA. 1893+98.37
N 840908.9337
E 1801155.0302

1885 1890 1895

MATCH LINE STA. 1885+00.00 SEE SHEET NO. 133F

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 133H

665 660 655

90 EXIT 121

88 WELCOME CENTER NEXT RIGHT

TO BE REMOVED
WECOME CENTER NEXT RIGHT

89A RAMP 50 M.P.H

NORTH 65 MILE 0.2 TO REMAIN

SOUTH 65 MILE 0.2 TO REMAIN

91 EXIT 121
109 Tennessee
Vaughn Road
Portland
WELCOME CENTER

END OVERLAY MATCH EXISTING
STA. 1887+00.00 LT. (N.B.)

PROP. BARRIER WALL

6" SSWL

6" SSYL

6" SSWL

6" SBWL

6" SSWL

8" SSWL

24" SSWL
SEE TDOT STD.
DWG. T-M-6

6" DWL

S 17° 28' 04" W

N 14° 28' 04" E

I-65

6" SSYL

12" SSWL

24" SSWL
SEE TDOT STD.
DWG. T-M-6

6" SSWL

EXIT 45 MPH TO REMAIN

TO REMAIN
REST AREA

NO PARKING TO REMAIN

SPEED LIMIT 15 TO REMAIN

PARKING RESTRICTIONS TO REMAIN

NO PARKING TO REMAIN

PARKING RESTRICTIONS

WRONG WAY

RUMBLE STRIP
SEE TDOT STD.
DWG. T-M-15

6" SBWL

TO REMAIN
ABRAHAM LINCOLN MEMORIAL EXPRESSWAY

TO REMAIN
SPEED LIMIT 70

END OVERLAY MATCH EXISTING
STA. 1897+50.00 LT. (S.B.)

END 3" OVERLAY
STA. 1894+50.00 LT. (S.B.)

BI-DIRECTIONAL 2-COLOR
SNOW PLOWABLE MARKERS
SEE TDOT STD. DWG.
T-M-5

SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1885+00 TO STA.1898+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84H
CONST.	2014	STP/HPP/NH-I-65-3(113)	133H

1900

1905

1910

2640' (NTS) 22

2640' (NTS) 22

SIGN (91) SEE SHEET 133G

(92) EXIT 121

109 Tennessee Vaughn Road

Portland

WELCOME CENTER

1/2 MILE

(93) EXIT 121

109 Tennessee Vaughn Road

Portland

WELCOME CENTER

1 MILE

N

STA. 650+00.00 C D ROAD =
49.35' LT STA. 1900+00.00 I-65
N 841503.8166
E 1801257.5539
(SEE SHEETS 34-39 FOR PROFILE)

650

EXIT (89) 50 MPH

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15

6" SSWL

6" DWL

6" SBWL

6" SSWL

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15

END 6" SBWL & 6" SSYL STA. 1905+00 MATCH EXISTING

N 14° 28' 04" E

6" SSYL

I-65

6" SBWL

6" SSWL

END 6" SSWL, 6" SBWL, & 6" SSYL STA. 1905+00 MATCH EXISTING

TO REMAIN

PGA TOUR PLAYER KENNY PERRY'S COUNTRY CREEK EXIT 2

TO REMAIN

NORTH 65 MILE 0.4

SOUTH 65 MILE 0.4

TO REMAIN

EXIT 2

HOSPITAL NEXT RIGHT

TO REMAIN

MATCH LINE STA. 1898+00.00 SEE SHEET NO. 133G

MATCH LINE STA. 1911+00.00 SEE THIS SHEET

74003-3168-44

END PROJ. NO. STP/HPP/NH-I-65-3(113) CONST. SIMPSON CO. KY.
STA. 1914+00.00 I-65
N 842847.0911
E 1801655.1079

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS SEE TDOT STD. DWG. T-M-5

SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

1915

TO BE REMOVED KY MILEPOINT 0.8

WECOME CENTER 1 MILE

TO BE REMOVED KY MILEPOINT 0.9

TO BE REMOVED KY MILEPOINT 1.0

LANE ENDS MERGE LEFT

RIGHT LANE ENDS 1/2 MILE

TO BE REMOVED KY MILEPOINT 1.1

1920

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15

6" SSWL

6" SBWL

END 6" SSWL STA. 1914+00 MATCH EXISTING

END 6" SBWL STA. 1914+00 MATCH EXISTING

N 14° 28' 04" E

I-65

MATCH LINE STA. 1911+00.00 SEE THIS SHEET

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

BRIAN LEE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 107296 STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

I-65
STA.1898+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84"I"
CONST.	2014	STP/HPP/NH-I-65-3(113)	133"I"

BEGIN PROJ. NO. 83001-2143-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+02.00
N 832698.9567
E 1806517.2181

BEGIN PROJ. NO. 83001-3143-44 SUMNER CO. CONST.
STA. 308+00.00 S.R. 109

305

310

PORTLAND CITY LIMITS

291 SPEED LIMIT 55

N 36° 30' 58" W

289 SPEED LIMIT 40

290 SPEED LIMIT 40

94

95 DO NOT ENTER

96

4" DSYL

4" DSYL

4" SSWL

RUMBLE STRIP
SEE TDOT STD.
DWG. T-M-15A

SEE TDOT STD. DWG'S. T-M-2 &
T-M-3 FOR DETAILS ON PAINT
STRIPING AND BI-DIRECTIONAL
2-COLOR SNOW PLOWABLE MARKERS

MATCH LINE STA. 314+00.00 SEE SHEET NO. 133J

PORTLAND CITY LIMITS

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ◉

MARKING ABBREVIATIONS

SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
B.O.P. TO STA.314+00

SCALE: 1"=50'

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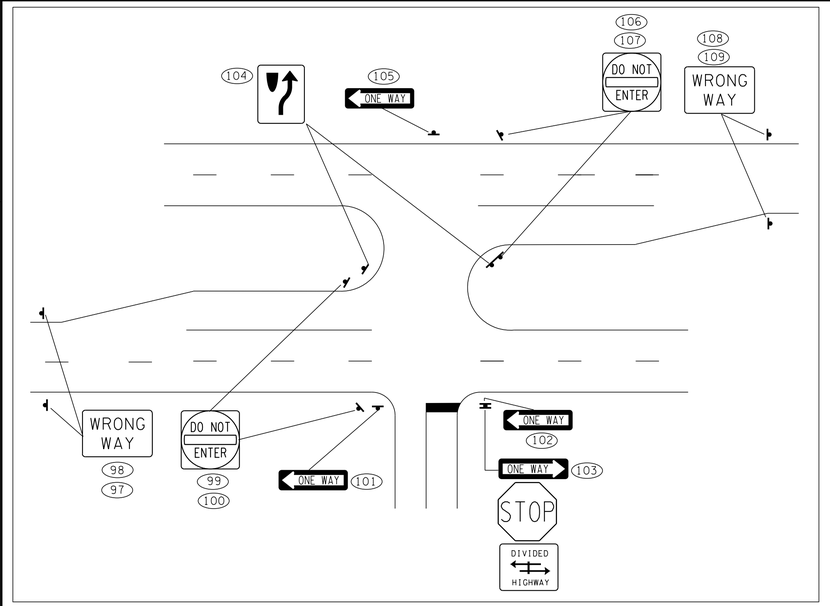
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84J
CONST.	2014	STP/HPP/NH-I-65-3(113)	133J



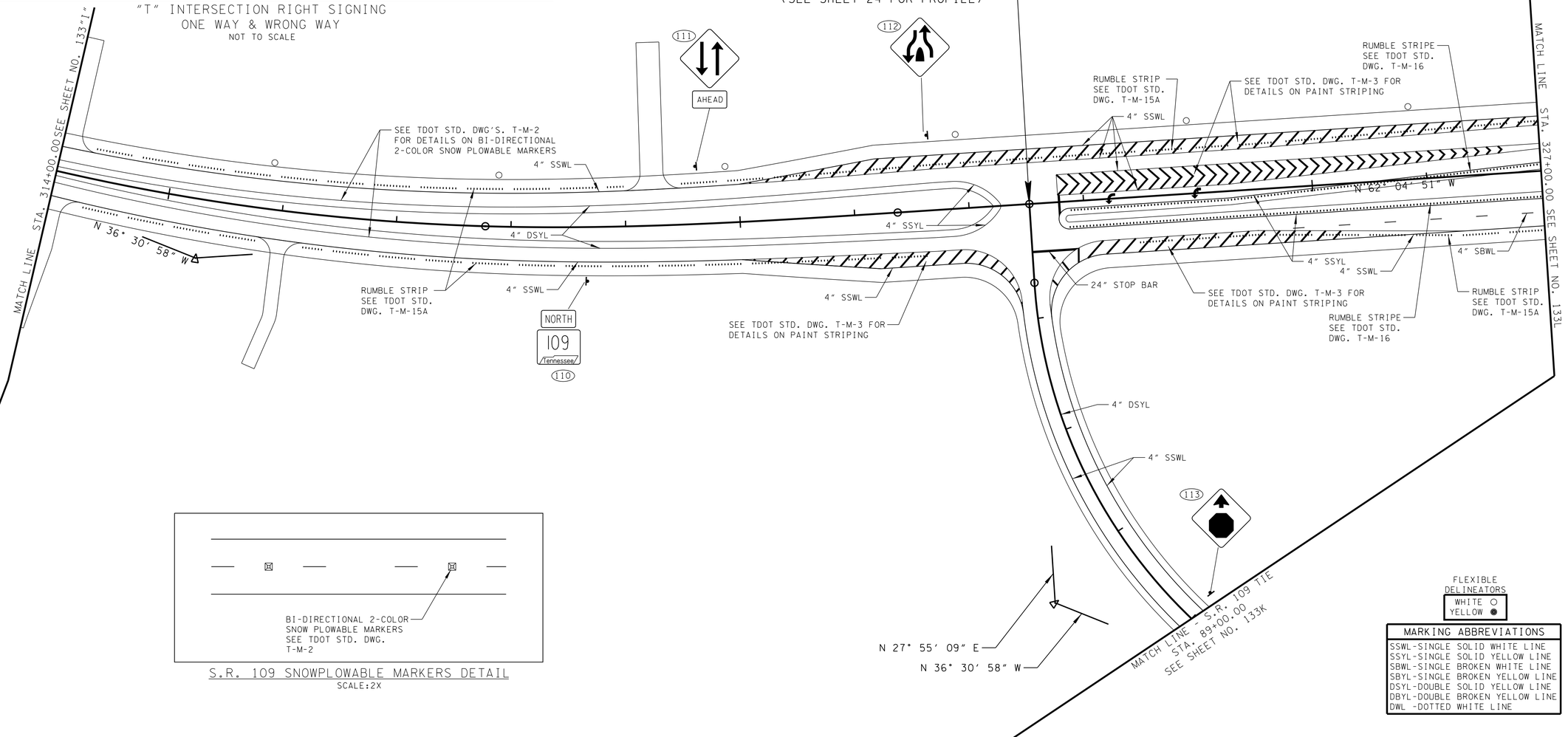
"T" INTERSECTION RIGHT SIGNING
ONE WAY & WRONG WAY
NOT TO SCALE

320

325

N

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 OLD S.R. 109 TIE
N 833632.8824
E 1805434.3376
(SEE SHEET 24 FOR PROFILE)



S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ◉

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.314+00 TO STA.327+00

SCALE: 1"=50'

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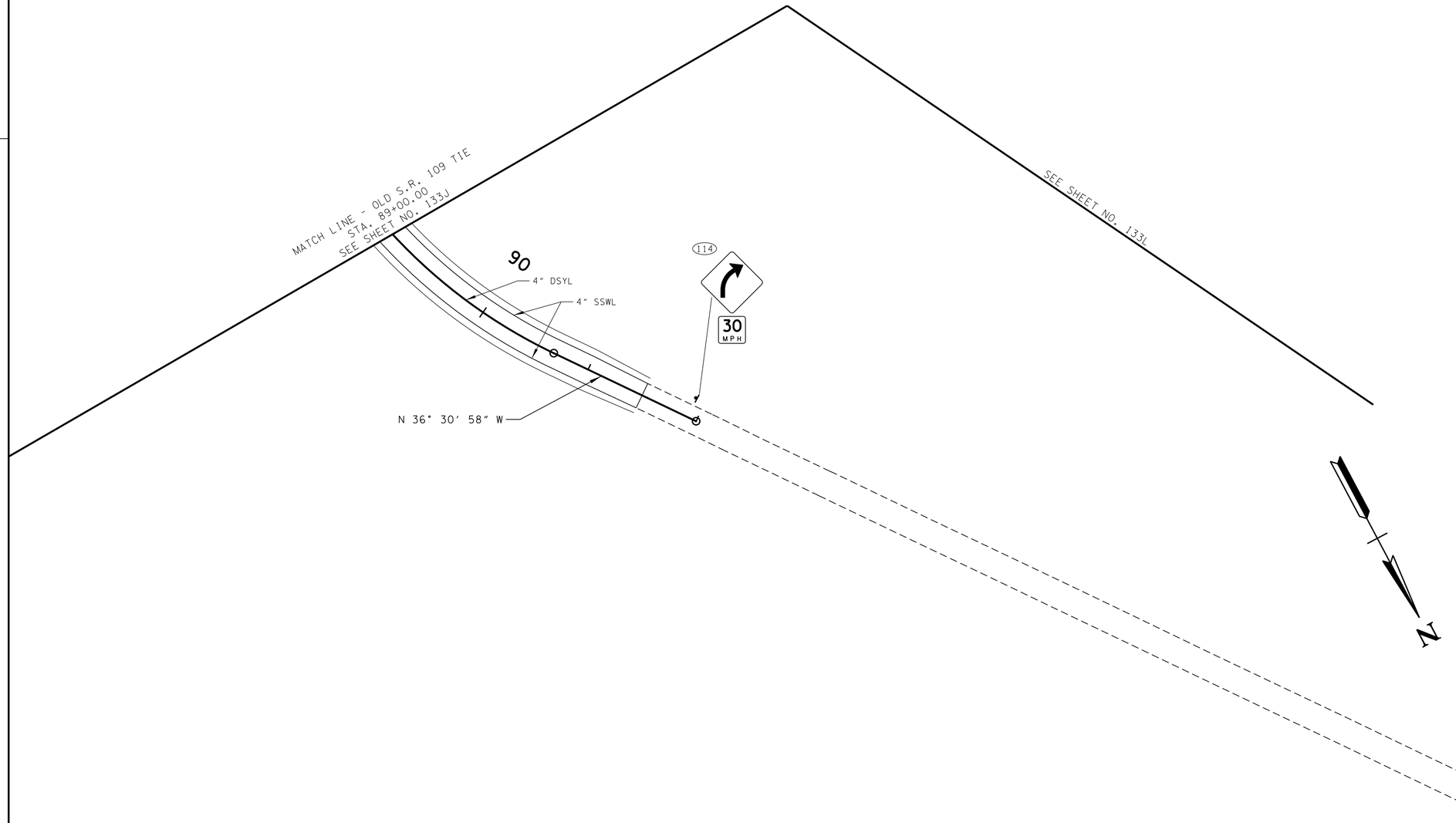
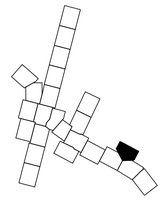
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84K
CONST.	2014	STP/HPP/NH-I-65-3(113)	133K



UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

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MARKING ABBREVIATIONS

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DWL -DOTTED WHITE LINE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109 TIE
STA.89+00 TO STA.91+50

SCALE: 1"=50'

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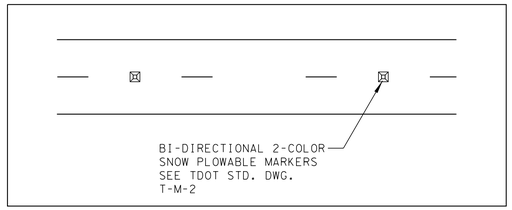
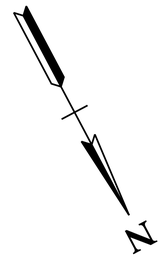
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

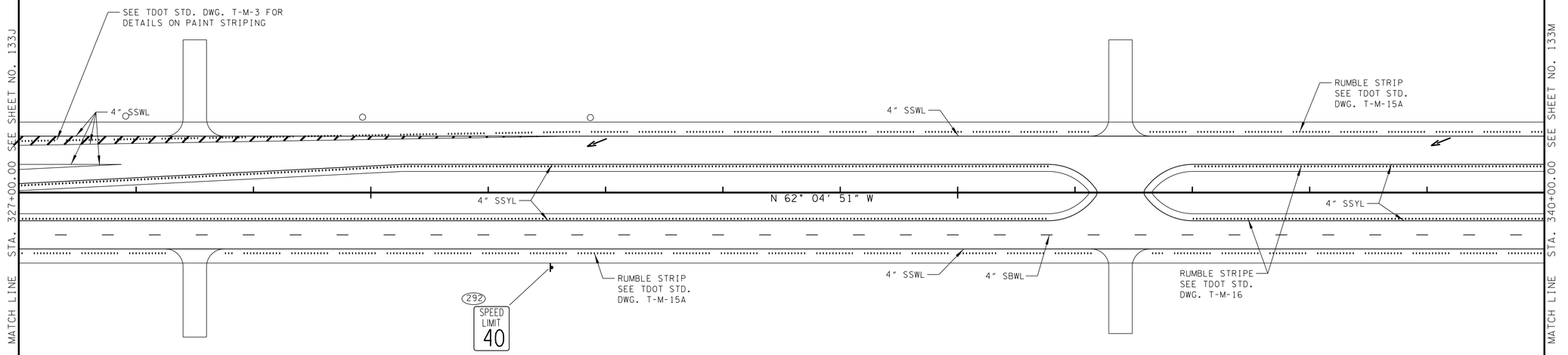
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84L
CONST.	2014	STP/HPP/NH-I-65-3(113)	133L

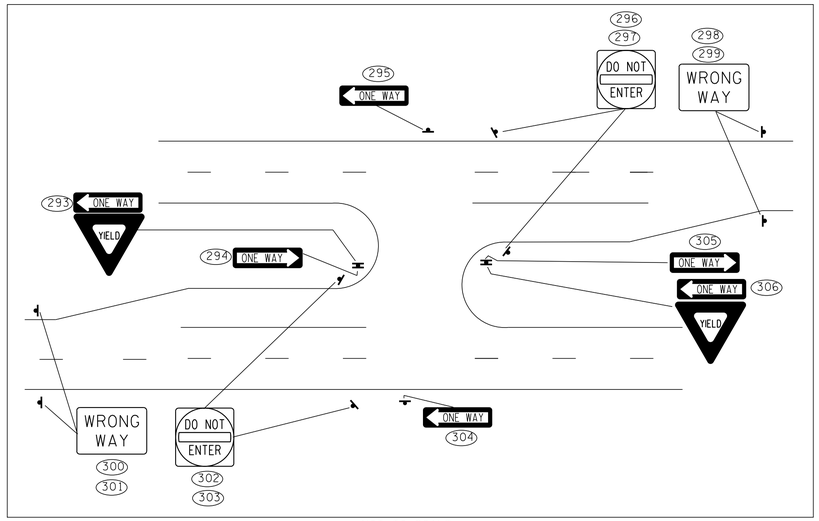


S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X



330 335 340





NOT TO SCALE

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS

SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
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DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.327+00 TO STA.340+00
SCALE: 1"=50'

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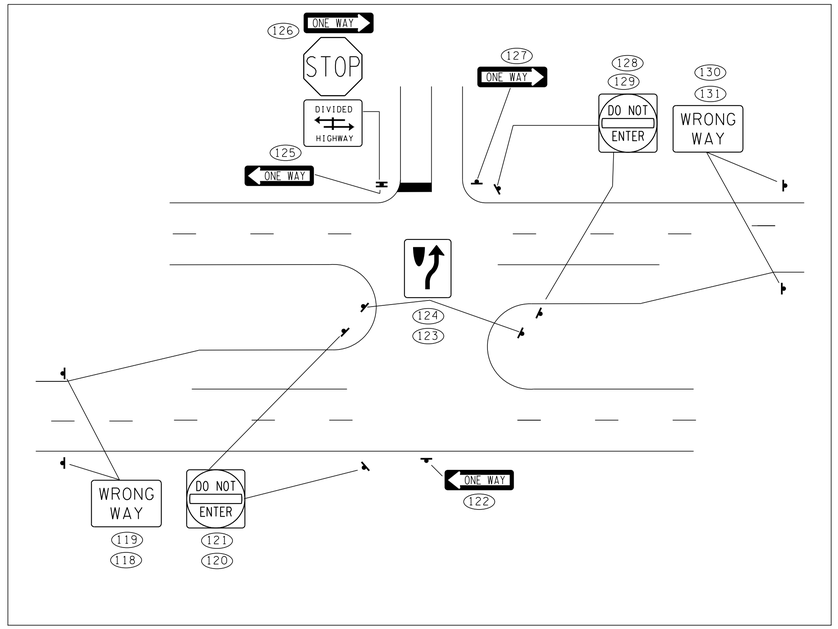
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

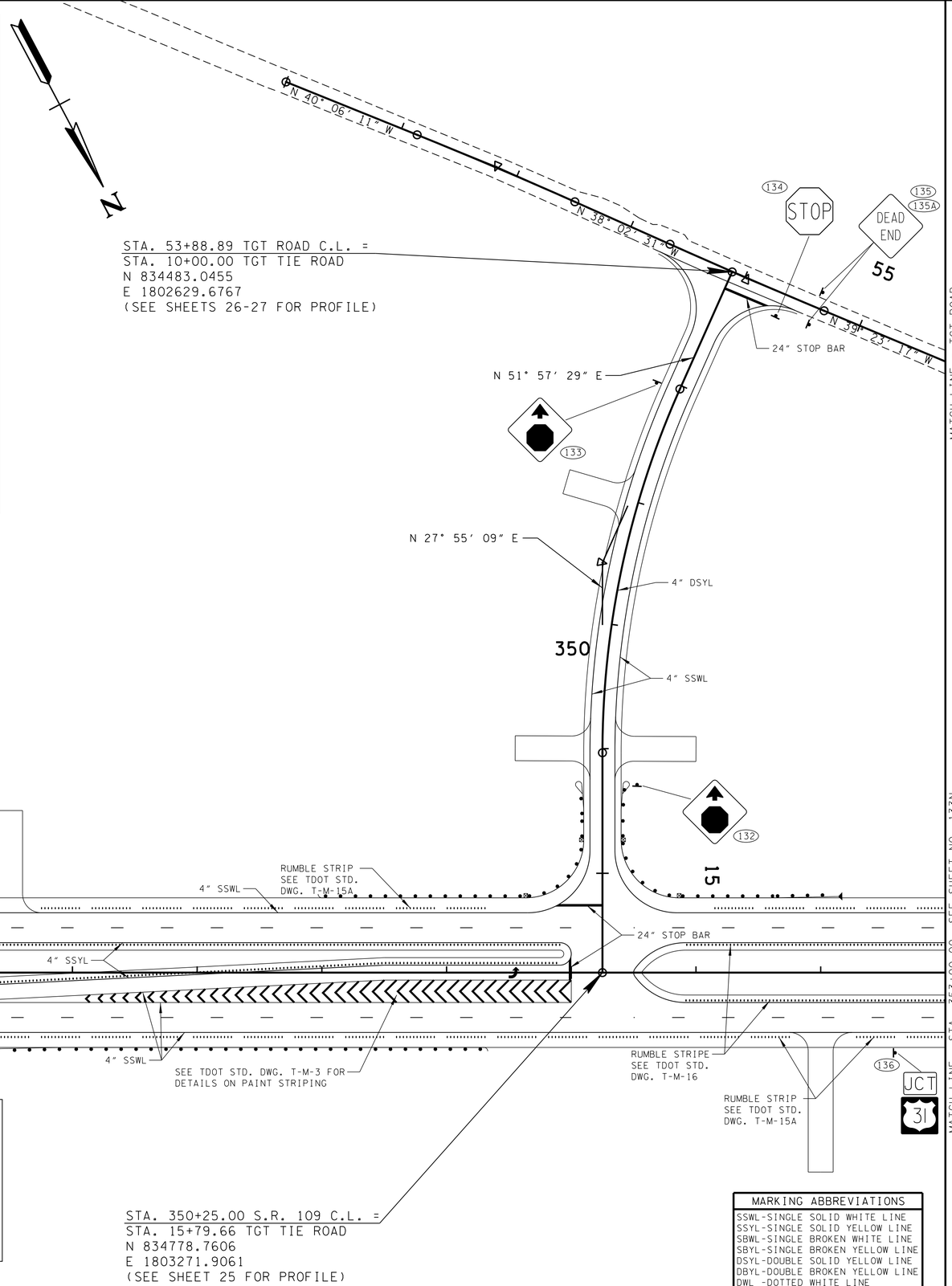
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84M
CONST.	2014	STP/HPP/NH-I-65-3(113)	133M

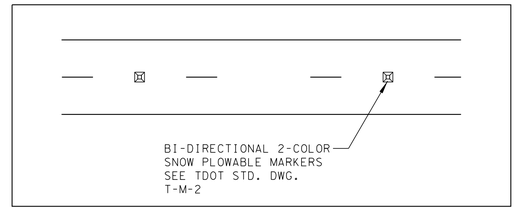


"T" INTERSECTION LEFT SIGNING
ONE WAY & WRONG WAY
NOT TO SCALE

340

345



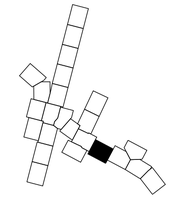


S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 25 FOR PROFILE)

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.340+00 TO STA.353+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84N
CONST.	2014	STP/HPP/NH-I-65-3(113)	133N

REV. 12-09-13: ADDED FLD. ENT. LT. STA. 357+60.

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 133"O"

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

N 39° 23' 17" W

BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS SEE TDOT STD. DWG. T-M-1

S.R. 41 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

355

JCT 109 Tennessee (157)

4" DSYL

4" SSWL

SEE TDOT STD. DWG. T-M-3 FOR DETAILS ON PAINT STRIPING

4" DWL

(156) ONLY ONLY ONLY

N 25° 19' 17" E

(153) TO INTERSTATE 65 (154) NORTH 109 Tennessee (155) NORTH 31W SOUTH 109 Tennessee

360

TO BE REMOVED SPEED LIMIT 35 NO LITTERING $50.00 FINE

S 57° W

N 35° 37' 20" W

60

65

SOUTH (310) 31W

1130

4" SSWL

4" DSYL

4" SSWL

SEE TDOT STD. DWG. T-M-4 FOR STD. INTERSECTION PAVEMENT MARKINGS TYPE 1

24" STOP BAR

TO BE REMOVED

STOP

(152) (152A)

(308) SOUTH 109 Tennessee

(151) SOUTH 31W ONLY | NORTH 109 Tennessee ONLY | NORTH 109 Tennessee ONLY | NORTH 31W ONLY

(307) SPEED LIMIT 40

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15A

(150) (115) WRONG WAY

RUMBLE STRIPE SEE TDOT STD. DWG. T-M-16

4" SSWL 4" SBWL

MATCH LINE STA. 353+00.00 SEE SHEET NO. 133M

N 22° 04' 51" W

4" SSYL

4" DWL 4" SSWL 4" SBWL 4" SSWL

24" STOP BAR

BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS SEE TDOT STD. DWG. T-M-2

S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

365

NORTH 31W (158) | SOUTH 109 Tennessee (159) | SOUTH 31W (160)

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15A

24" STOP BAR

4" SSWL 4" SBWL

4" SSYL

8" DWL

STOP TO BE REMOVED

24" STOP BAR

4" SSWL 4" SBWL

TO BE REMOVED SPEED LIMIT 30

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15A

NORTH 109 Tennessee (311)

N 22° 19' 17" E

8" SSWL

TO INTERSTATE 65

SOUTH 109 Tennessee (161) | SOUTH 31W (162) | NORTH 109 Tennessee (163)

1135

4" DSYL

4" SSWL

4" SBWL

4" SSWL

RIGHT LANE MUST TURN RIGHT (164)

MARKING ABBREVIATIONS

SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DWL	DOTTED WHITE LINE

MATCH LINE STA. 366+00.00 SEE SHEET NO. 133R

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331

(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

(309) NORTH 31W

MATCH LINE STA. 1136+00.00 SEE SHEET NO. 133P

(138) ONE WAY | DIVIDED HIGHWAY | (137) ONE WAY

(139) (140) DO NOT ENTER | (141) (142) WRONG WAY

(143) (144)

(145) DO NOT ENTER | (147) ONE WAY

(146) ONE WAY (148) | ONE WAY (149) | DIVIDED HIGHWAY

CROSS ROAD SIGNING
ONE WAY & WRONG WAY
WITH CHANNELIZED TURN LANES
NOT TO SCALE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
DEC. 19, 2013
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.353+00 TO STA.366+00
SCALE: 1"=50'

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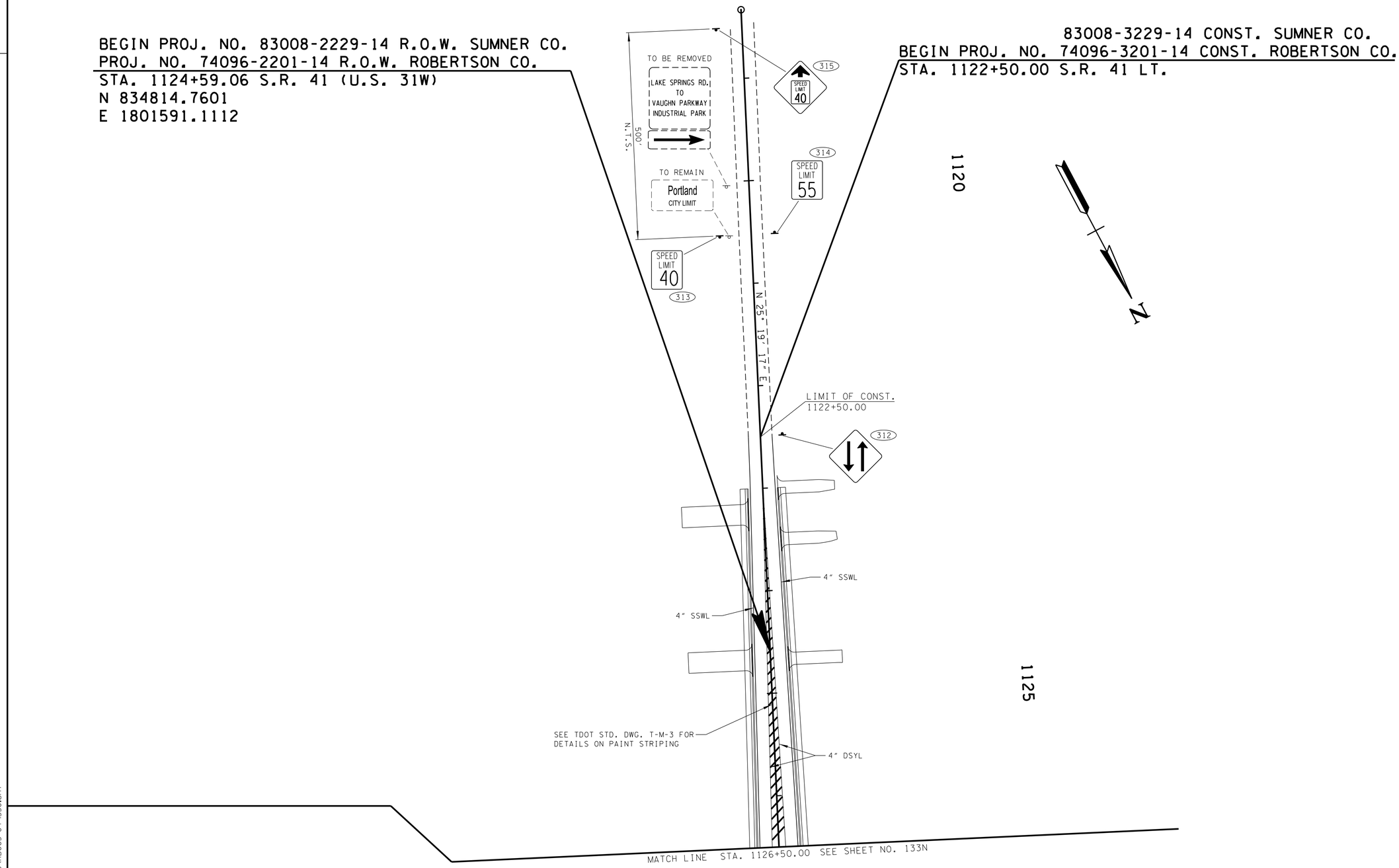
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84"07
CONST.	2014	STP/HPP/NH-I-65-3(113)	133"07

BEGIN PROJ. NO. 83008-2229-14 R.O.W. SUMNER CO.
PROJ. NO. 74096-2201-14 R.O.W. ROBERTSON CO.
STA. 1124+59.06 S.R. 41 (U.S. 31W)
N 834814.7601
E 1801591.1112

83008-3229-14 CONST. SUMNER CO.
BEGIN PROJ. NO. 74096-3201-14 CONST. ROBERTSON CO.
STA. 1122+50.00 S.R. 41 LT.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 41
B.O.P. TO STA.1126+50
SCALE: 1"=50'

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

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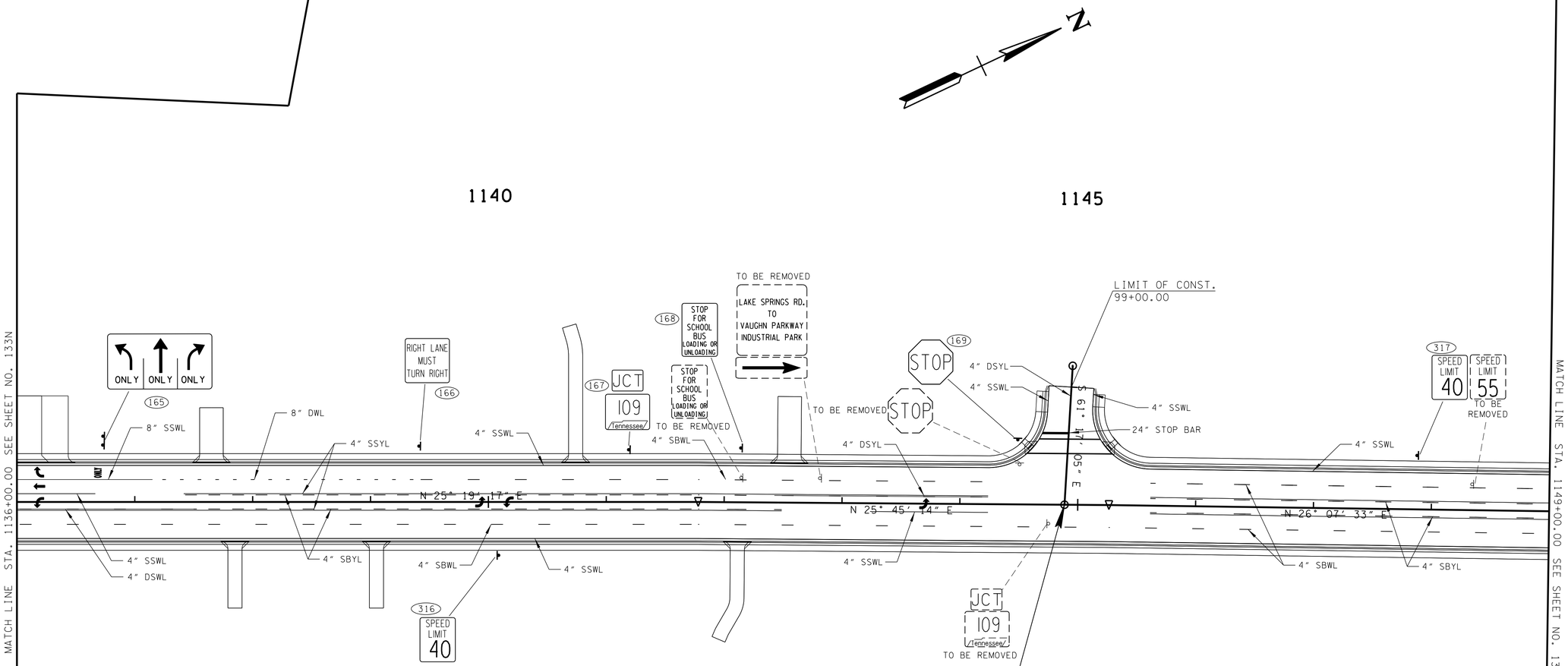
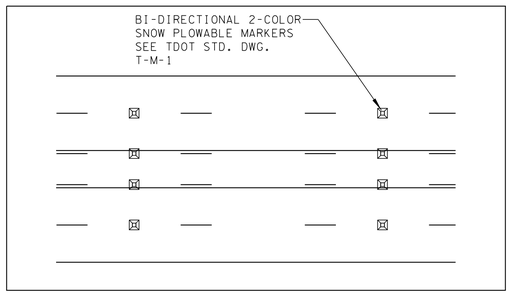
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84P
CONST.	2014	STP/HPP/NH-I-65-3(113)	133P



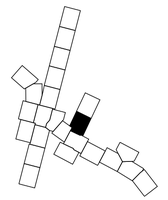


SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

STA. 100+00.00 FRED WHITE BLVD. C.L. =
STA. 1144+88.79 S.R. 41 RT.
N 836648.4669
E 1802461.3370
(SEE SHEET 30 FOR PROFILE)

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 41
STA.1136+00 TO STA.1149+00
SCALE: 1"=50'

9/23/2014 6:30:40 PM
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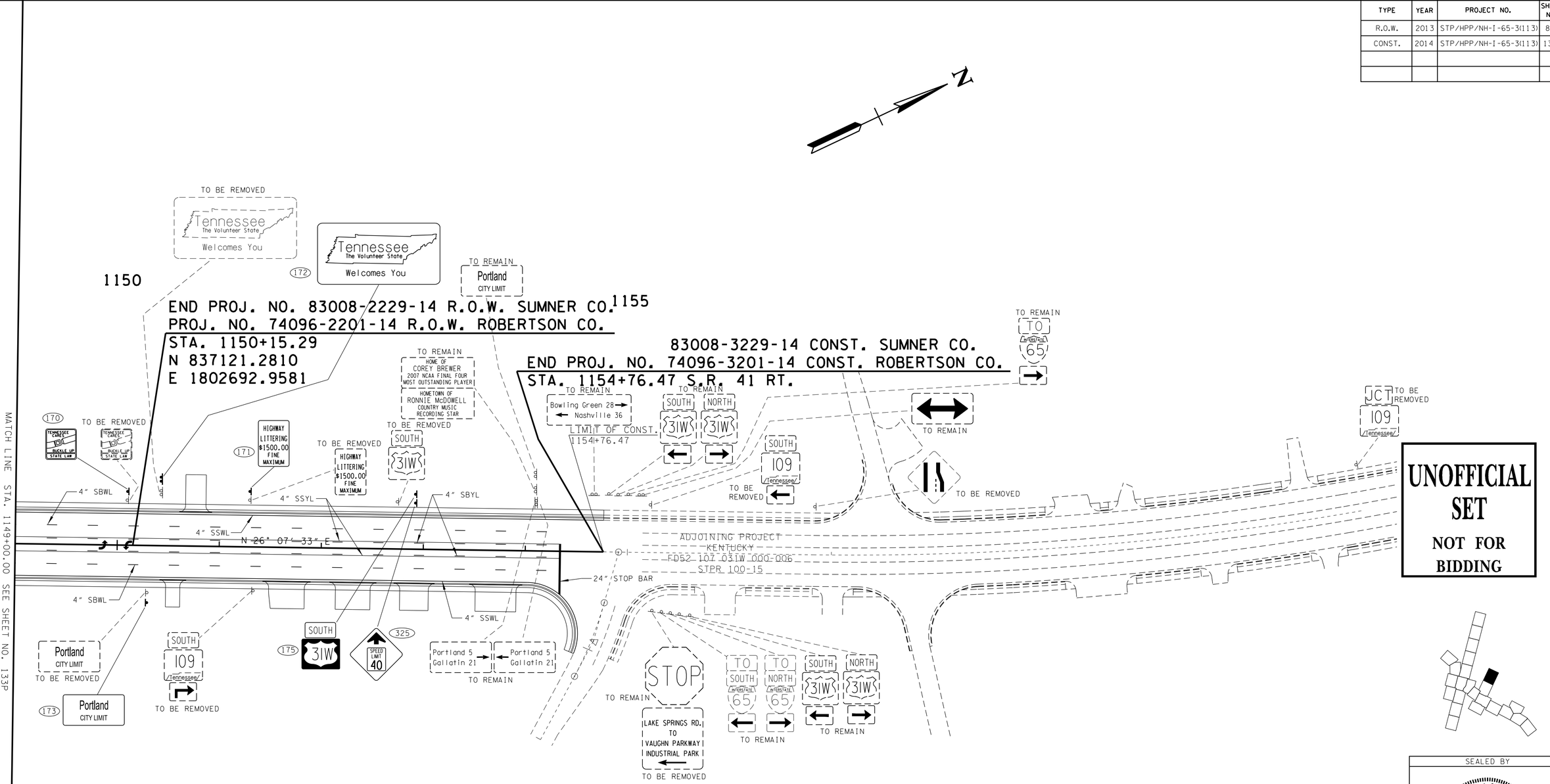
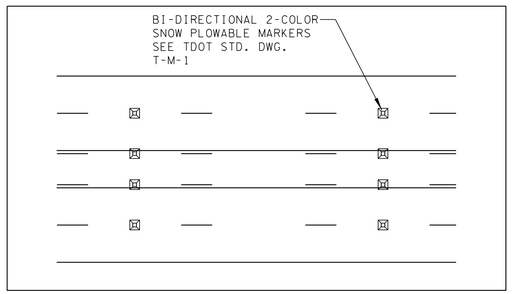
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	840
CONST.	2014	STP/HPP/NH-I-65-3(113)	1330





SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 41
STA.1149+00 TO E.O.P.
SCALE: 1"=50'

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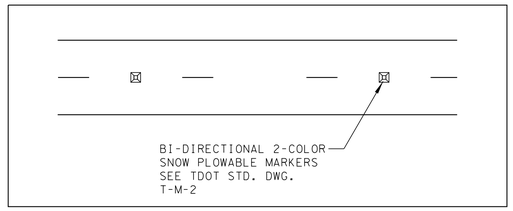
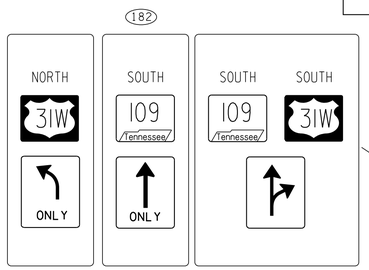
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

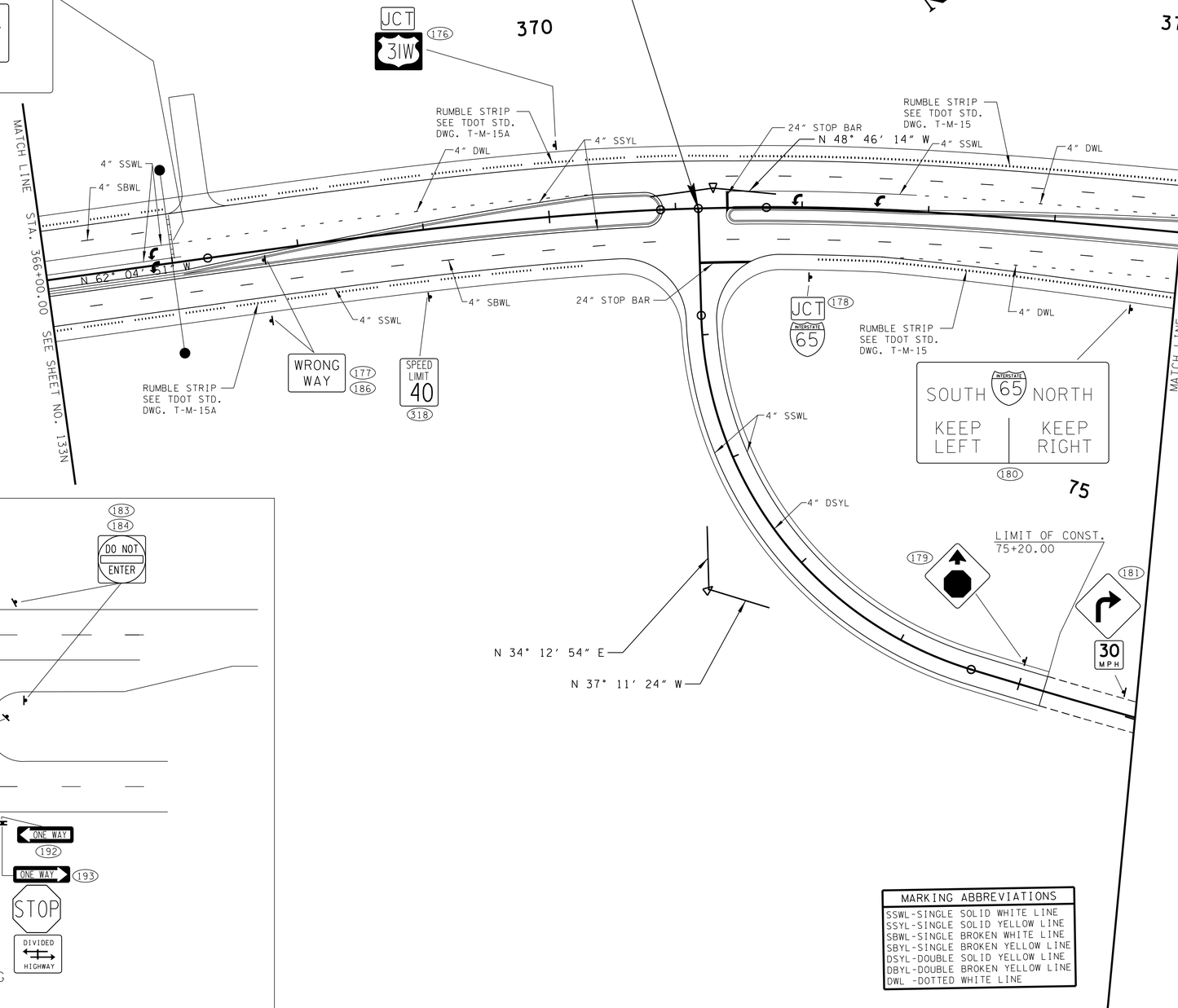
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84R
CONST.	2014	STP/HPP/NH-I-65-3(113)	133R

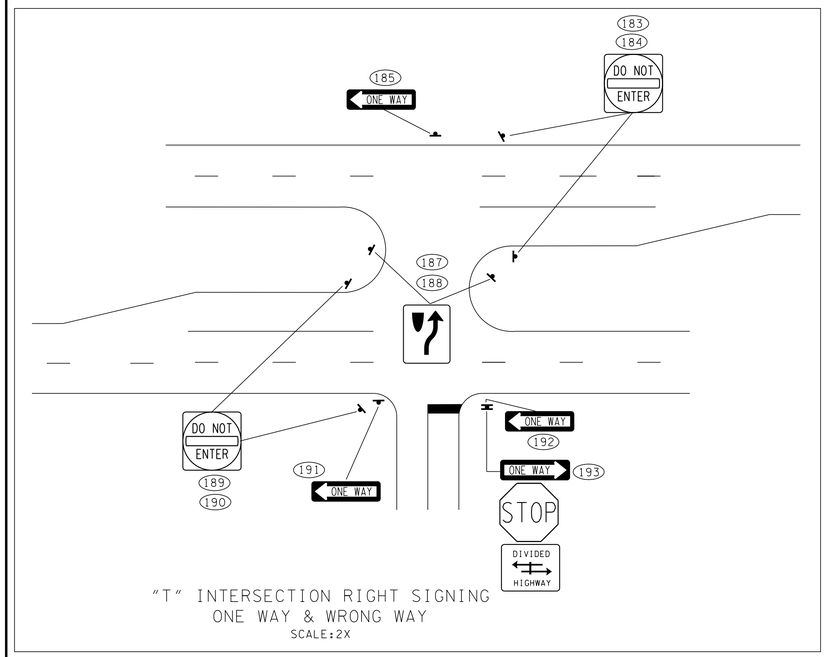


S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X



STA. 371+18.00 S.R. 109 C.L. =
STA. 70+00.00 LAKE SPRINGS RD.
N 835923.3884
E 1801142.4702
(SEE SHEET 31 FOR PROFILE)

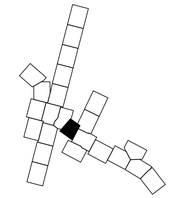




"T" INTERSECTION RIGHT SIGNING
ONE WAY & WRONG WAY
SCALE:2X

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.366+00 TO STA.375+00
SCALE: 1"=50'

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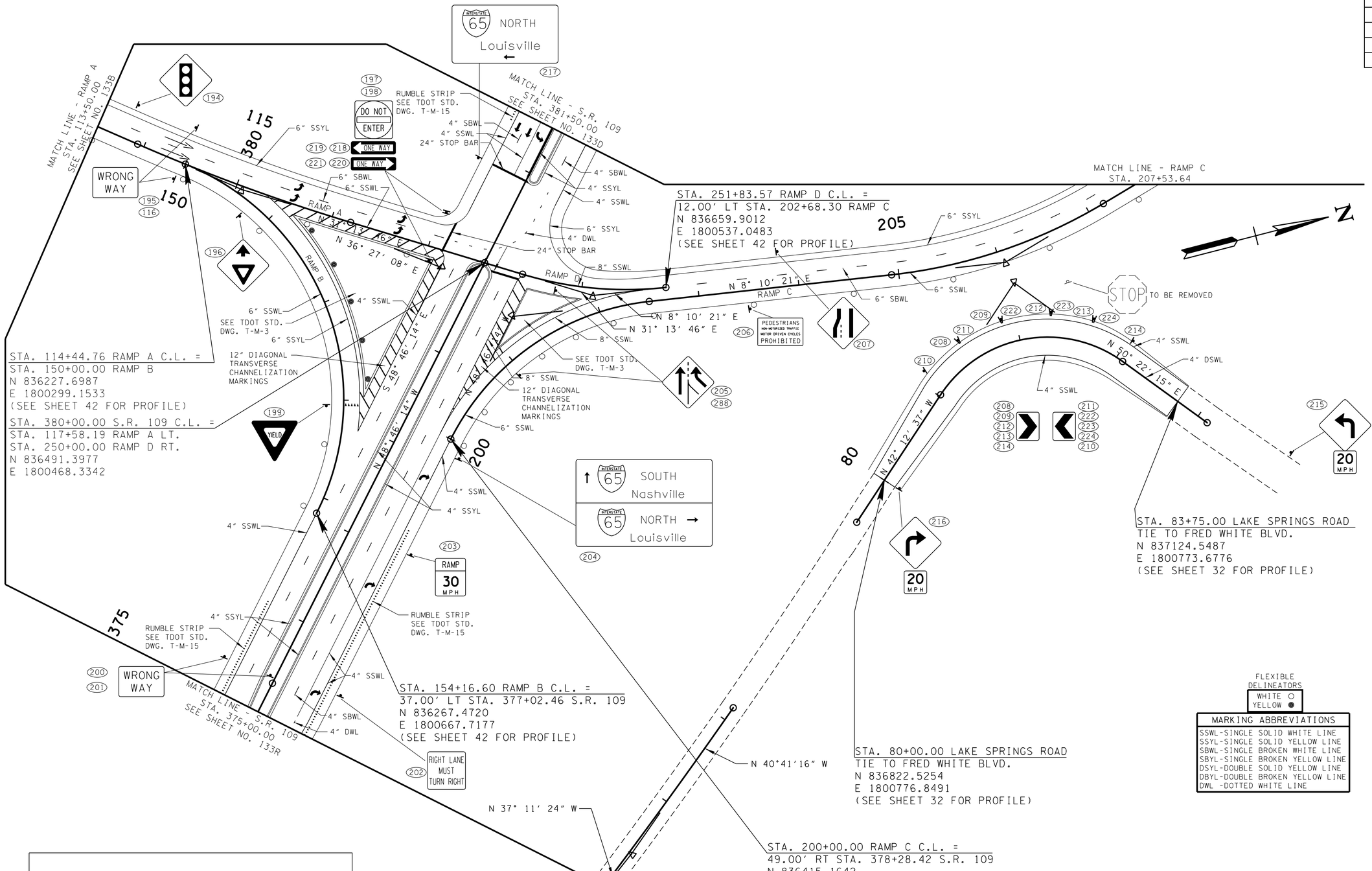
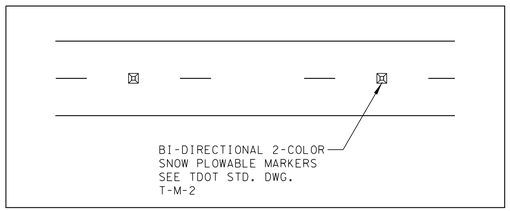
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84S
CONST.	2014	STP/HPP/NH-I-65-3(113)	133S



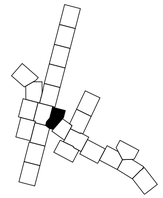


S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.375+00 TO STA.381+50
SCALE: 1"=50'

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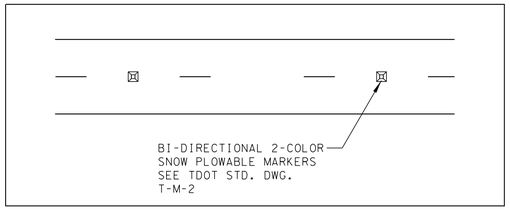
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84T
CONST.	2014	STP/HPP/NH-I-65-3(113)	133T



S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE:2X

S 44° 09′ 18″ E
S 58° 19′ 34″ W

N

MATCH LINE - RAMP H
STA. 461+34.86
SEE SHEET NO. 133C

MATCH LINE - RAMP E
STA. 312+82.16

S 12° 59′ 41″ W

225

460

4″ SSWL
4″ DSYL

S 50° 05′ 07″ W

6″ SSWL

RAMP H

226
227

6″ SBWL

230
RAMP
40
MPH

6″ SSYL
228
229

RAMP E

6″ SSWL

315

455

S 58° 19′ 34″ W

109
/Tennessee/
SOUTH
Vaughn Rd
235

231
PEDESTRIANS
NON-MOTORIZED TRAFFIC
MOTOR DRIVEN CYCLES
PROHIBITED

232

319

238

350

N 48° 46′ 14″ W

STA. 450+00.00 RAMP H C.L.=
49.00′ LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706
(SEE SHEETS 48-50 FOR PROFILES)

STA. 402+86.96 RAMP G C.L.=
12.00′ LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

20

233
INTERSTATE 65 NORTH
Louisville
INTERSTATE 65 SOUTH →
Nashville

S 13° 31′ 52″ W

234
RAMP
30
MPH

RUMBLE STRIP
SEE TDOT STD.
DWG. T-M-15

S 27° 54′ 28″ E
395

4″ SSWL

N 0° 25′ 39″ W
450

6″ SSWL

8″ SSWL

RAMP H

4″ SSWL

15′

S 21° 42′

4″ SBWL

RUMBLE STRIP
SEE TDOT STD.
DWG. T-M-15

4″ SSYL

MATCH LINE - S.R. 109
STA. 397+00.00
SEE SHEET NO. 133U

STA. 350+00.00 RAMP F C.L.=
16.00′ LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

236
237
WRONG WAY

RAMP G

S 58° 19′ 34″ W

RAMP F

N 54° 22′ 38″ E

240
241
DO NOT ENTER

242
243
ONE WAY

244
245
ONE WAY

320

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885
(SEE SHEET 47 FOR PROFILE)

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924
(SEE SHEET 47 FOR PROFILE)

8″ SSWL

24″ STOP BAR

4″ SSYL
4″ SBWL
4″ SSWL

4″ SSWL

24″ STOP BAR

239
INTERSTATE 65 SOUTH
Nashville ←

FLEXIBLE DELINEATORS
WHITE ○
YELLOW ●

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

MATCH LINE - RAMP E
STA. 321+52.32

MATCH LINE - S.R. 109
STA. 392+00.00
SEE SHEET NO. 133D

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA.392+00 TO STA.397+00
RAMPS E, F, G, & H
SCALE: 1″=50′

9/22/2014 9:26:00 PM
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84U
CONST.	2014	STP/HPP/NH-I-65-3(113)	133U

REV. 12-09-13: REMOVED DETENTION POND LT. STA. 407+50 TO STA. 409+00.

REV. 01-27-14: REMOVED CUL-DE-SAC FROM VAUGHN DRIVE RT. STA. 407+00 SR-109.

N

15

400

405

S 86° 51′ 36″ E

S 13° 31′ 52″ W

S 4° 46′ 12″ W

S 85° 55′ 52″ E

STA. 28+29.86 EUBANKS RD. LT. C.L. =
STA. 10+00.00 FRONTAGE RD.
N 838421.1150
E 1799204.9770
(SEE SHEETS 53 & 54 FOR PROFILE)
STA. 403+55.64 S.R. 109 C.L. =
STA. 29+70.49 EUBANKS RD. LT.& RT.
N 838411.1378
E 1799345.2495
(SEE SHEET 33 FOR PROFILE)

MATCH LINE STA. 409+00.00 SEE SHEET NO. 133V

MATCH LINE - S.R. 109 STA. 397+00.00 SEE SHEET NO. 133T

N 0° 25′ 39″ W

N 48° 24′ 21″ E

N 54° 39′ 48″ E

S 85° 55′ 52″ E

OLD SOUTH DETOUR/LAKE SPRINGS ROAD
N 20° 00′ 19″ W

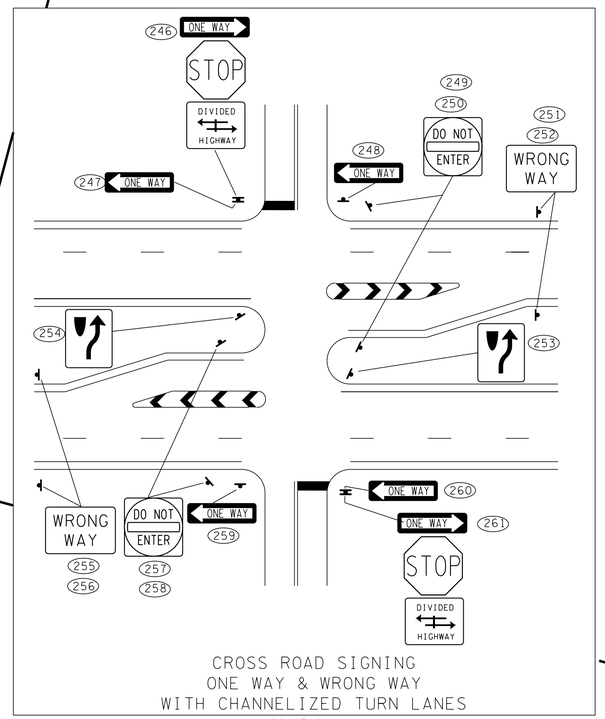
LAKE SPRINGS ROAD

LIMIT OF CONST. 33+60.00

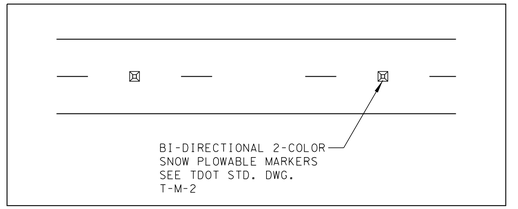
MATCH LINE SEE SHEET NO. 133E

(262) SPEED LIMIT 40
(263) RIGHT LANE MUST TURN RIGHT
(264) NORTH INTERSTATE 65 SOUTH — KEEP LEFT | KEEP RIGHT
(265) JCT INTERSTATE 65
(266) STOP
(267) DEAD END
(268)
(269) ONE WAY / YIELD
(270)
(271) ONE WAY / YIELD
(272)
(273)
(274)
(275)
(276) STOP
(277)
(278) TO BE REMOVED — STOP
(279) DEAD END
(280) STOP
(285)
(326) SPEED LIMIT 40

4″ SSWL
4″ DSYL
4″ DWL
4″ SSYL
4″ SBWL
4″ SBYL
4″ DWL 4″ DSYL
24″ STOP BAR
RUMBLE STRIP SEE TDOT STD. DWG. T-M-15
RUMBLE STRIP SEE TDOT STD. DWG. T-M-15A
SEE TDOT STD. DWG'S. T-M-2 & T-M-3 FOR DETAILS ON PAINT STRIPING AND BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS



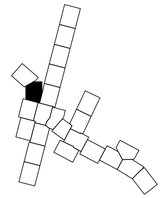
CROSS ROAD SIGNING
ONE WAY & WRONG WAY
WITH CHANNELIZED TURN LANES
SCALE: 2X



S.R. 109 SNOWPLOWABLE MARKERS DETAIL
SCALE: 2X

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING



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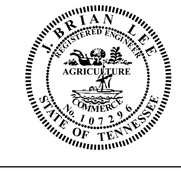

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA. 397+00 TO STA. 409+00

SCALE: 1″=50′

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	84V
CONST.	2014	STP/HPP/NH-I-65-3(113)	133V

REV. 12-09-13: REMOVED DETENTION POND LT. STA. 409+00 TO STA. 409+25 & RT. STA. 412+00 TO STA. 414+00. ADDED FLD. ENT. RT. STA. 414+56 FOR TRACT 45.

REV. 7-10-14: ADDED PROPOSED BUSINESS ENTRANCES TO TRACT 44 AT STATIONS 414+73, 419+67, & 420+31 LT., TRACT 42 AT STA. 413+88 LT. AND AT L&W PROPERTIES GROUP STA. 419+95 RT.

410

415

420

END PROJ. NO. 74003-3164-44 ROBERTSON CO. CONST.
STA. 420+82.37 S.R. 109

N

282
SPEED LIMIT 40

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15A

4" DSYL

4" SSWL

MATCH LINE STA. 409+00.00 SEE SHEET NO. 133U

4" SBWL

281
CENTER LANE
ONLY

4" SSWL

RUMBLE STRIP SEE TDOT STD. DWG. T-M-15A

4" SBYL

4" SSYL

4" SSWL

N 48° 48' 24" W

SEE TDOT STD. DWG'S. T-M-2 & T-M-3 FOR DETAILS ON PAINT STRIPING AND BI-DIRECTIONAL 2-COLOR SNOW PLOWABLE MARKERS

END PROJ. NO. 74003-2164-44
R.O.W. ROBERTSON CO.
STA. 421+00.00
N 839746.4707
E 1798384.3108

MARKING ABBREVIATIONS
SSWL-SINGLE SOLID WHITE LINE
SSYL-SINGLE SOLID YELLOW LINE
SBWL-SINGLE BROKEN WHITE LINE
SBYL-SINGLE BROKEN YELLOW LINE
DSYL-DOUBLE SOLID YELLOW LINE
DBYL-DOUBLE BROKEN YELLOW LINE
DWL -DOTTED WHITE LINE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAILS & SIGNING

S.R. 109
STA. 409+00 TO E.O.P.

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
1	EXIT 121 109 Tennessee Vaughn Road Portland 1 MILE	133	11'-0"	2'-0"	6" TOP ONLY	2"	10"		15"	EMOD	45"x36"		WHITE (REF)	GREEN (REF)	2-12" ALUM. EXT.	W8X24	h1=24'-0" h2=25'-3"	TYPE 6 D=1'-6"	0.27	76.7	7'-0"	
			13'-0"	10'-0"	12"	2"	13.33"	10"		EMOD					10-12" ALUM. EXT.							
							13.33"	10"		EMOD												
							16"	12"		EMOD												
							10"		15"	EMOD												
2	EXIT 121 109 Tennessee Vaughn Road Portland 1/2 MILE	133	11'-0"	2'-0"	6" TOP ONLY	2"	10"		15"	EMOD	45"x36"		WHITE (REF)	GREEN (REF)	2-12" ALUM. EXT.	W8X24	h1=24'-0" h2=25'-3"	TYPE 6 D=1'-6"	0.27	76.7	7'-0"	
			13'-0"	10'-0"	12"	2"	13.33"	10"		EMOD					10-12" ALUM. EXT.							
							13.33"	10"		EMOD												
							16"	12"		EMOD												
							10"		15"	EMOD												
3	SPEED LIMIT 70 R2-1	133	48"	60"									BLACK	WHITE (REF)	0.100" SHEET ALUM.	S3x5.7	h1=15'-6" h2=16'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
4	SOUTH INTERSTATE 65 M3-3	133	36"	18"							36"x36"		WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUM.	2.5" SQ. @ 3.98#/FT.	h=16'-0"	TYPE 4 D=1'-0"	0.12	26.4	7'-0"	
31	M1-1	133B															h=16'-0"					
5	N 65 TN45-A	133	18"	48"									WHITE (REF)	BLUE (REF)	0.080" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21						SIGN NO. 5 IS LOG MILE 120.2
12		133A																				SIGN NO. 12 IS LOG MILE 120.4
24		133B																				SIGN NO. 24 IS LOG MILE 120.6
41		133D																				SIGN NO. 41 IS LOG MILE 120.8
58		133E																				SIGN NO. 58 IS LOG MILE 121.0
67		133E																				SIGN NO. 67 IS LOG MILE 121.2
82		133F																				SIGN NO. 82 IS LOG MILE 121.4
6	S 65 TN45-A	133	18"	48"									WHITE (REF)	BLUE (REF)	0.080" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21						SIGN NO. 6 IS LOG MILE 120.2
13		133A																				SIGN NO. 13 IS LOG MILE 120.4
25		133B																				SIGN NO. 25 IS LOG MILE 120.6
42		133D																				SIGN NO. 42 IS LOG MILE 120.8
59		133E																				SIGN NO. 59 IS LOG MILE 121.0
68		133E																				SIGN NO. 68 IS LOG MILE 121.2
83		133F																				SIGN NO. 83 IS LOG MILE 121.4
6A	109 Tennessee Vaughn Road Portland EXIT ONLY E6-2a E11-1	133	19'-0"	11'-0"	12"	2"	13.33"	10"		EMOD	45"x36"		WHITE (REF.)	GREEN (REF.)	11-12" ALUM. EXT.	OVERHEAD SIGN						
							13.33"	10"		EMOD												
							16"	12"		EMOD												
							12"			EMOD		TYPE "H"	BLACK	YELLOW (FLOR.)								
7	ONLY R3-8(MOD)	133	48"	30"									BLACK	WHITE (REF)	0.080" SHEET ALUM.	S3x5.7	h1=14'-0" h2=14'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
10		133A															h1=14'-0" h2=14'-6"					
8	OPEN WHEN FLASHING ALL TRUCKS MUST STOP FOR WEIGHING AND INSPECTION BYPASS RAMP WHEN FULL	133	8'-0" 18'-0" 18'-0"	3'-0" 6'-0" 2'-0"												W8x24	h1=22'-0" h2=20'-6"	TYPE 6 D=1'-6"	0.27	76.7	7'-0"	REMOVE EXISTING SIGN, STORE, AND REINSTALL ON NEW SUPPORT POSTS.

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U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

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SIGN SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134A

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
9	ALL TRUCKS MUST STOP FOR INSPECTION	133A	60"	30"												U3	h1=12'-6" h2=13'-0"				7'-0"	REMOVE EXISTING SIGN, STORE, AND REINSTALL ON NEW SUPPORT POSTS.
11	EXIT 50 MPH W13-2	133A	48"	60"									BLACK	WHITE (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=16'-6" h2=17'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
89		133G																				
14	TRUCK INSPECTION & WEIGH STATION 1 MILE	133A	16'-0"	6'-0"	8"	2"	12"			EMOD			WHITE (REF)	GREEN (REF)	6-12" ALUM. EXT.	W6x15	h1=17'-3" h2=19'-3"	TYPE 6 D=1'-3"	0.27	76.7	7'-0"	
21		133B					10"		15"							OVERHEAD SIGN						
15	EXIT 121 109 Tennessee Vaughn Road Portland EXIT ONLY	133B	10'-0"	2'-0"	6" TOP ONLY	2"	10"		15"	EMOD	45"x36"	TYPE "H" (45 DEG)	WHITE (REF)	GREEN (REF)	2-12" ALUM. EXT.	OVERHEAD SIGN						
			19'-0"	11'-0"	12"	2"	13.33"	10"		EMOD					11-12" ALUM. EXT.							
							13.33"	10"		EMOD												
							16"	12"		EMOD												
							10"			EMOD			BLACK	YELLOW (FLOR.)								
16	REST AREA WELCOME CENTER 1 MILE DS-7	133B	11'-0"	9'-0"	12"	2"	12"			EMOD			WHITE (REF)	BLUE (REF)	9-12" ALUM. EXT.	OVERHEAD SIGN						
							12"															
							12"															
							10"		15"													
17	EXIT 121 E5-1A	133B	96"	60"	6"	1.5"	12"			EMOD		TYPE "F" (45 DEG)	WHITE (REF)	GREEN (REF)	5-12" ALUM. EXT.	S5x10	h1=16'-3" h2=16'-3"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
18	109 Tennessee SOUTH Vaughn Rd	133B	8'-0"	5'-0"	6"	1.5"	8"			EMOD	30"x24"	TYPE "A" (45 DEG)	WHITE (REF)	GREEN (REF)	6-16" ALUM. EXT.	S5x10	h1=16'-9" h2=18'-3"	TYPE 6 D=1'-3"	0.27	76.7	7'-0"	
							8"	6"		EMOD												
235		133T					8"	6"		EMOD		TYPE "A"										
19	RAMP W13-3 MPH	133B	48"	60"									BLACK	YELLOW (FLOR)	0.100" SHEET ALUM.	S3x5.7	h1=16'-9" h2=17'-3"	TYPE 5 D=1'-3"	0.18	50.1	6'-0"	SIGN NO. 19 IS NUMERAL 30
39		133C																				SIGN NO. 39 IS NUMERAL 50
69		133E																				SIGN NO. 69 IS NUMERAL 50
74		133F																				SIGN NO. 74 IS NUMERAL 30
89A		133G																				SIGN NO. 89A IS NUMERAL 50
203		133S																				SIGN NO. 203 IS NUMERAL 30
230		133T																				SIGN NO. 230 IS NUMERAL 40
234		133T																				SIGN NO. 234 IS NUMERAL 30
20	LANE ENDS MERGE LEFT W9-2L	133B	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=14'-3" h2=14'-9"				7'-0"	
22	LANE ENDS 600 FEET	133B	6'-0"	10'-0"	12'	2"	12"		15"	EMOD		TYPE "H"	BLACK	YELLOW (FLOR)	10-12" ALUM. EXT.	OVERHEAD SIGN						
23	W4-1	133B	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=14'-3" h2=14'-9"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
27		133B																				
55		133D																				
61		133E																				
64		133E																				

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SIGN SCHEDULE

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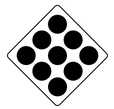
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134B

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
28	W1-8R	133B	36"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	P5	h1=12'-0"				7'-0"	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.
29		133B																				
30		133B																				
33		133C																				
34		133C																				
35		133C																				
36		133C																				
37		133C																				
38		133C																				
48		133D																				
56		133D																				
226		133T																				
227		133T																				
228		133T																				
229		133T																				
208	W1-8R	133S	18"	24"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	U1	h1=12'-6"				7'-0"	
209		133S																				
212		133S																				
213		133S																				
214		133S																				
32	 OM4-1	133C	30"	30"	SEE STANDARD DRAWING T-S-18																	ITEM NO. 713-16.07
32A		133C																				
54		133D																				
54A		133D																				
152		133N																				
152A		133N																				
40		133D	12'-0"	10'-0"	12"	2"	15"/12"	12"		EMOD	36"x36"	TYPE "H"	WHITE (REF.)	GREEN (REF.)	10-12" ALUM. EXT.	OVERHEAD SIGN						
52A		133D					16"			EMOD												
44	M3-3 M1-1 M5-4	133D	24" 30"	12" 24"							24"x24"		WHITE (REF.) BLACK	BLUE (REF.) WHITE (REF.)	0.080" SHEET ALUM.	P8	h1=15'-0"				7'-0"	
45	STATE LAW MOVE OVER FOR STOPPED EMERGENCY VEHICLES $500 MAXIMUM FINE TN-61	133	96"	60"									BLACK	WHITE (REF.)	5-12" ALUM. EXT.	S5x10	h1=15'-3" h2=15'-9"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
46	SENATOR ALBERT GORE SR. MEMORIAL INTERSTATE SYSTEM TN-26	133	78"	18"						EMOD			WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=10'-9" h2=11'-3"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	REDUCE SPACING TO FIT.
47	TN-30	133F	24"	24"									WHITE (REF.) RED (REF.) BLACK	BLUE (REF.)	0.080" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21						
47A		133E														P2	h=14'-0"				5'-0"	
170		133Q																				
49	E5-1A(MOD.)	133D	8'-0"	5'-0"	6"	2"	12"		18"	EMOD		RAMP LOOP (SEE DETAIL)	WHITE (REF.)	GREEN (REF.)	5-12" ALUM. EXT.	S5x10	h1=15'-0" h2=15'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	

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DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND		SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
				LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
50	EXIT 121 109 Tennessee Vaughn Road Portland EXIT ONLY	E5-16P E6-2a	133D	11'-0" 16'-0"	2'-0" 10'-0"	6" TOP ONLY 12"	2" 2"	10" 13.33" 13.33" 16" 12"	 10" 10" 12" 	15" 15"	 EMOD EMOD EMOD EMOD	45"x36"	TYPE "H" (45 DEG)	WHITE (REF.) BLACK	GREEN (REF.) YELLOW (FLOR.)	2-12" ALUM. EXT. 10-12" ALUM. EXT.	OVERHEAD SIGN						
51	RAMP 40 MPH	W13-7	133D	48"	84"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUM.	S4x7.7	h1=18'-0" h2=18'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
52	EXIT 121 109 Tennessee Vaughn Road Portland EXIT ONLY	E5-16P E6-2a	133D	11'-0" 16'-0"	2'-0" 10'-0"	6" TOP ONLY 12"	2" 2"	10" 13.33" 13.33" 16" 12"	 10" 10" 12" 	15" 15"	 EMOD EMOD EMOD EMOD	45"x36"	TYPE "H"	WHITE (REF.) BLACK	GREEN (REF.) YELLOW (FLOR.)	2-12" ALUM. EXT. 10-12" ALUM. EXT.	OVERHEAD SIGN						
53	NORTH INTERSTATE 65 ↰	M3-1 M1-1 M5-1L	133D	24" 24" 21"	12" 24" 15"							24"x24"		WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUM.	P8	h=15'-0"				7'-0"	
57 173	Portland CITY LIMIT	TN-3	133D 133Q	48"	24"									WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUM.	U3	h1=12'-6" h2=12'-6"				5'-0"	
60 286	MILE 1 2 1	D10-3	133E 133E	12"	48"		SEE STANDARD DRAWING T-S-11							WHITE (REF.)	GREEN (REF.)	0.080" SHEET ALUM.	ITEM NO. 712-02.04						
62	NO PARKING ANY TIME	R7-1(MOD.)	133E	12"	18"									RED	WHITE (REF.)	0.100" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21						
																	U1	h1=4'-3"				7'-0"	
63	511 TRAVEL INFO CALL 511	TN-62b	133E	60"	72"									WHITE (REF.)	BLUE (REF.)	8-12" ALUM. EXT.	S4x7.7	h1=18'-0" h2=18'-3"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
65 206 231	PEDESTRIANS NON-MOTORIZED TRAFFIC MOTOR DRIVEN CYCLES PROHIBITED	TN-21	133E 133S 133T	36"	30"									BLACK	WHITE (REF.)	0.100" SHEET ALUM.	2" SQ. @ 3.12#/FT.	h=15'-0"	TYPE 4 D=1'-0"	0.12	26.4	7'-0"	
66	REST AREA WELCOME CENTER EXIT ONLY	E11-1	133E	13'-0"	10'-0"	9"	2"	12" 12" 12"	 	 	EMOD		TYPE "H"	WHITE (REF.) BLACK	BLUE (REF.) YELLOW (FLOR.)	10-12" ALUM. EXT.	OVERHEAD SIGN						
71	SPEED LIMIT 15	R2-1	133F	24"	30"						EMOD			BLACK	WHITE (REF.)	0.100" SHEET ALUM.	P2	h1=12'-0"				7'-0"	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134C

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BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134D

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
72	TRUCKS-TRUCKS WITH TRAILERS CAMPERS CARS	133F	7'-0"	5'-0"	3"	1"	6" 6" 6" 6"			"D"		TYPE "A" TYPE "A"	WHITE (REF.)	GREEN (REF.)	5-12" ALUM. EXT.	S4x7.7	h1=15'-9" h2=15'-9"	TYPE 5 D=1'-0"	0.18	50.1	7'-0"	
73	WELCOME CENTER	133F	7'-0"	6'-0"	9"	2"	10"			EMOD		TYPE "F" (45 DEG)	WHITE (REF.)	BLUE (REF.)	6-12" ALUM. EXT.	S5x10	h1=16'-0" h2=16'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
75	EXIT 121 I09 Tennessee Vaughn Road Portland	133F	11'-0"	2'-0"	6" TOP ONLY	2"	10"		15"		45"x36"	TYPE "H"	WHITE (REF.)	GREEN (REF.)	2-12" ALUM. EXT.	OVERHEAD SIGN						
			13'-0"	10'-0"	12"	2"	13.33"	10"		EMOD					10-12" ALUM. EXT.							
							13.33"	10"		EMOD												
							16"	12"		EMOD												
76	WELCOME CENTER D5-8	133F	14'-0"	6'-0"	12"	2"	12"			EMOD		TYPE "G"	WHITE (REF.)	BLUE (REF.)	6-12" ALUM. EXT.	OVERHEAD SIGN						
77	DEPUTY BRIAN DENNING MEMORIAL HIGHWAY TN-26	133	66"	18"						EMOD			WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=13'-6" h2=14'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	REDUCE SPACING OF LETTERS TO FIT.
78 85	MILE 0 D10-1	133F 133F	12"	24"			SEE STANDARD DRAWING T-S-11						WHITE (REF.)	GREEN (REF.)	0.080" SHEET ALUM.	ITEM NO. 713-02.04						
79	Tennessee The Volunteer State Welcomes You TN-50a	133F	28'-0"	10'-0"												W10x33	h1=25'-0" h2=26'-3" h3=27'-0"	TYPE 6 D=2'-0"	0.99	370.1	7'-0"	CONTACT STATE TRAFFIC ENGINEERS OFFICE FOR SPECIFIC GUIDANCE IN FABRICATING THIS SIGN.
172	TN-50b	133Q	15'-0"	6'-0"												S6x12.5	h1=15'-6" h2=15'-6"	TYPE 5 D=1'-3"	0.18	50.1	5'-0"	
80	END TRUCK LANE RESTRICTION TN-60F	133F	48"	60"									BLACK	WHITE (REF.)	0.100" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21						
81	NORTH INTERSTATE 65 M3-1 M1-1	133F	36"	18"							36"x36"		WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUM.	2.5" SQ. @ 3.98 #/FT.	h=14'-6"	TYPE 4 D=1'-0"	0.12	26.4	7'-0"	
84	WELCOME TO Kentucky UNBRIDLED SPIRIT Steven L. Beshear, Governor Birthplace of Abraham Lincoln	133F	18'-0"	6'-0"			EXISTING				EXISTING					W8x24	h1=25'-0" h2=25'-0" h3=25'-0"	TYPE 6 D=1'-6"	0.56	149	7'-0"	REMOVE EXISTING SIGN, STORE, AND REINSTALL ON NEW SUPPORT POSTS.
			18'-0"	2'-0"																		
86	Simpson COUNTY	133F	6'-0"	2'-6"			EXISTING				EXISTING					U3	h1=12'-6" h2=12'-6"				7'-0"	REMOVE EXISTING SIGN, STORE, AND REINSTALL ON NEW SUPPORT POSTS.
87	REST AREA WELCOME CENTER EXIT ONLY D5-2 E11-1c	133F	13'-0"	10'-0"	12"	2"	12"			EMOD		TYPE "G"	WHITE (REF.)	BLUE (REF.)	10-12" ALUM. EXT.	OVERHEAD SIGN						
							12"						BLACK	YELLOW (FLOR.)								
							12"															

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No. 107296
STATE OF TENNESSEE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
88	WELCOME CENTER NEXT RIGHT D5-11	133G	12′-0″	6′-0″	12″	2″	12″ 12″ 12″			EMOD			WHITE (REF.)	BLUE (REF.)	6-12″ ALUM. EXT.	W6x20	h1=20′-6″ h2=22′-6″	TYPE 6 D=1′-3″	0.27	76.7	7′-0″	
90	EXIT 121 E5-1	133G	48″	72″	8″	1.5″	10″		12″	EMOD		TYPE "F" (45 DEG)	WHITE (REF)	GREEN (REF)	0.100″ SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21						
91	EXIT 121 109 Tennessee Vaughn Road Portland WELCOME CENTER	133G	11′-0″	2′-0″	6″ TOP ONLY	2″	10″		15″	EMOD	45″x36″	TYPE "G" (45 DEG)	WHITE (REF.)	GREEN (REF.)	2-12″ ALUM. EXT.	OVERHEAD SIGN						
			15′-0″	11′-0″	12″	2″	13.33″	10″						BLUE (REF.)	11-12″ ALUM. EXT.							
							16″	12″														
							12″					TYPE "G" (45 DEG)	WHITE (REF.)	BLUE (REF.)								
92	EXIT 121 109 Tennessee Vaughn Road Portland WELCOME CENTER 1/2 MILE	133H	11′-0″	2′-0″	6″ TOP ONLY	2″	10″		15″	EMOD	45″x36″	TYPE "G" (45 DEG)	WHITE (REF.)	GREEN (REF.)	2-12″ ALUM. EXT.	W10x33	h1=28′-0″ h2=29′-3″	TYPE 6 D=2′-0″	0.99	370.1	7′-0″	
			13′-0″	14′-0″			13.33″	10″							14-12″ ALUM. EXT.							
							13.33″	10″														
							16″	12″														
							12″						WHITE (REF.)	BLUE (REF.)								
							12″															
							12″		15″				WHITE (REF.)	GREEN (REF.)								
93	EXIT 121 109 Tennessee Vaughn Road Portland WELCOME CENTER 1 MILE	133H	11′-0″	2′-0″	6″ TOP ONLY	2″	10″		15″	EMOD	45″x36″	TYPE "G" (45 DEG)	WHITE (REF.)	GREEN (REF.)	2-12″ ALUM. EXT.	W10x33	h1=28′-0″ h2=29′-3″	TYPE 6 D=2′-0″	0.99	370.1	7′-0″	
			13′-0″	14′-0″			13.33″	10″							14-12″ ALUM. EXT.							
							13.33″	10″														
							16″	12″														
							12″						WHITE (REF.)	BLUE (REF.)								
							12″															
							12″		15″				WHITE (REF.)	GREEN (REF.)								
94 312	W6-3	133″I″ 133″O″	36″	36″									BLACK	YELLOW (REF.)	0.100″ SHEET ALUM.	P8	h1=15′-9″				5′-0″	
95 99 100 106 107 120 121 128 129 139 140 145 146 183 184 189 190 249 250 257 258 296 297 302 303 197 198 240 241	DO NOT ENTER R5-1	133″I″ 133J 133J 133J 133J 133M 133M 133M 133M 133N 133N 133N 133N 133R 133R 133R 133R 133U 133U 133U 133U 133L 133L 133L 133L 133S 133S 133T 133T	36″	36″									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100″ SHEET ALUM.	P8	h=12′-6″				7′-0″	
																P5	h=12′-6″				7′-0″	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134E

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DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134F

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
96	W6-1	133"I"	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUM.	P8	h=13'-6"				5'-0"	
273		133U																				
97	WRONG WAY R5-1A	133J	36"	24"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUM.	P8	h=12'-6"				7'-0"	
98		133J																				
108		133J																				
109		133J																				
115		133N																				
118		133M																				
119		133M																				
130		133M																				
131		133M																				
141		133N																				
142		133N																				
150		133N																				
177		133R																				
186		133R																				
200		133S																				
201		133S																				
251		133U																				
252		133U																				
255		133U																				
256		133U																				
298		133L																				
299		133L																				
300		133L																				
301		133L																				
116		133S														2" SQ. @ 3.12 #/FT.	h=12'-6"	TYPE 4 D=1'-0"	0.12	26.4	7'-0"	
195		133S																				
236		133T																				
237		133T																				
101	ONE WAY R6-1L	133J	36"	12"									BLACK	WHITE (REF.) BLACK	0.080" SHEET ALUM.	U1	h=11'-6"				7'-0"	
102		133J																				
105		133J																				
122		133M																				
125		133M																				
137		133N																				
147		133N																				
148		133N																				
185		133R																				
191		133R																				
192		133R																				
294		133L																				MOUNTED ON SAME POST WITH NO. 293
295		133L																				
304		133L																				
305		133L																				MOUNTED ON SAME POST WITH NO. 306
218		133S																			5'-0"	MOUNTED UNDER SIGN NO. 197
219		133S																				MOUNTED UNDER SIGN NO. 198
242		133T																				MOUNTED UNDER SIGN NO. 240
243		133T																				MOUNTED UNDER SIGN NO. 241
247		133U														U1	h=11'-6"				7'-0"	
248		133U																				
259		133U																				
260		133U																				
103	ONE WAY R6-1R	133J	36"	12"									BLACK	WHITE (REF.) BLACK	0.080" SHEET ALUM.	P5	h1=16'-0"				5'-0"	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.
126	STOP R1-1	133M	36"	36"									WHITE (REF.)	RED (REF.)	0.100" SHEET ALUM.							
193		133R																				
246	DIVIDED HIGHWAY R6-3	133U	30"	24"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.							
261		133U																				

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FILE NO.

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SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	STEEL DESIGN (BREAK-AWAY) SUPPORT LENGTH	STEEL DESIGN (BREAK-AWAY) FOOTING	STEEL DESIGN (BREAK-AWAY) CONC. CU. YD.	STEEL DESIGN (BREAK-AWAY) REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
104	R4-7	133J	24″	30″									BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	U2	h1=12′-0″				7′-0″	
123		133M																				
124		133M																				
143		133N																				
144		133N																				
187		133R																				
188		133R																				
253		133U																				
254		133U																				
110	NORTH	133J	24″	12″									BLACK	(REF.) WHITE	0.080″ SHEET ALUM.	P8	h1=14′-9″				5′-0″	
311	I09 Tennessee	133N	30″	24″									BLACK	(REF.) WHITE								
111	W6-3	133J	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUM.	P5	h1=16′-6″				5′-0″	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.
	AHEAD W16-9P		30″	18″									BLACK	YELLOW (FLOR.)	0.080″ SHEET ALUM.							
112	W6-2	133J	36″	36″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUM.	P8	h1=15′-0″				5′-0″	
272		133U																				
113	W3-1	133J	36″	36″									BLACK (ARROW) RED (STOP) (REF.)	YELLOW (FLOR.)	0.080″ SHEET ALUM.	P8	h1=15′-0″				5′-0″	
132		133M																				
133		133M																				
179		133R																				
268		133U																				
270		133U																				
275		133U																				
277		133U																				
285		133U																				
114	W1-2R	133K	30″	30″									BLACK	YELLOW (FLOR.)	0.080″ SHEET ALUM.	P8	h1=15′-6″				5′-0″	
	30 MPH W13-1P		18″	18″									BLACK	YELLOW (FLOR.)	0.080″ SHEET ALUM.							
117	W4-2R	133M	48″	48″									BLACK	YELLOW (FLOR.)	0.100″ SHEET ALUM.	U3	h1=15′-0″ h2=15′-6″				5′-0″	
274		133U																				
127	ONE WAY R6-1L	133M	36″	12″									BLACK	WHITE (REF.) BLACK	0.080″ SHEET ALUM.	U1	h1=11′-6″				5′-0″	
220		133S																				MOUNTED UNDER SIGN NO. 197
221		133S																			5′-0″	MOUNTED UNDER SIGN NO. 198
244		133T																				MOUNTED UNDER SIGN NO. 240
245		133T																				MOUNTED UNDER SIGN NO. 241
134	STOP R1-1	133M	36″	36″									WHITE (REF.)	RED (REF.)	0.080″ SHEET ALUM.	P8	h1=15′-0″				5′-0″	
169		133P																				
266		133U																				
276		133U																				
278		133U																				
280		133U																				
135	DEAD END W14-1	133M	30″	30″									BLACK	YELLOW (REF.)	0.080″ SHEET ALUM.	P8	h1=15′-0″				5′-0″	
135A		133M																				
267		133U																				
279		133U																				

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134G

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STATE OF TENNESSEE

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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134H

SIGN NO	LEGEND		SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)				MINIMUM VERTICAL CLEARANCE	REMARKS
				LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	
136	JCT 31	M2-1 M1-4	133M	21″ 24″	15″ 24″									BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	P8	h=14′-0″				5′-0″	
138 149	ONE WAY DIVIDED HIGHWAY	R6-1R R6-3	133N 133N	36″ 30″	12″ 24″									BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	P8	h=13′-0″				5′-0″	
151	SOUTH 31W ONLY	D15-1 (MOD)	133N	5′-0″	8′-0″	9″	2″	8″			EMOD	24″x24″	R3-5L 30″x36″	WHITE (REF.)	GREEN (REF.)	8-12″ ALUM. EXT.	OVERHEAD SIGN					5′-0″	
	NORTH 109 Tennessee ONLY	D15-1		5′-0″	8′-0″	9″	2″	8″			EMOD	24″x24″	R3-5a 30″x36″	WHITE (REF.)	GREEN (REF.)	8-12″ ALUM. EXT.							
	NORTH 109 Tennessee ONLY	D15-1		5′-0″	8′-0″	9″	2″	8″			EMOD	24″x24″	R3-5a 30″x36″	WHITE (REF.)	GREEN (REF.)	8-12″ ALUM. EXT.							
	NORTH 31W ONLY	D15-1 (MOD)		5′-0″	8′-0″	9″	2″	8″			EMOD	24″x24″	R3-5R 30″x36″	WHITE (REF.)	GREEN (REF.)	8-12″ ALUM. EXT.							

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134I

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND		SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
				LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
153	TO INTERSTATE 65 / NORTH / 109 Tennessee / ←	M4-5	133N	24"	12"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUM.	P6	h=19'-0"				5'-0"	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.
		M1-1		24"	24"																		
		M3-1		24"	12"																		
		TN-6D		30"	24"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.							
		M6-1L		21"	15"																		
154	NORTH / 31W / ↑	M3-1	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		M1-4		30"	24"																		
		M6-3		21"	15"																		
155	SOUTH / 109 Tennessee / →	M3-3	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		TN-6D		30"	24"																		
		M6-1R		21"	15"																		
156	ONLY ONLY ONLY	R3-8a (MOD)	133N	60"	36"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	U3	h1=13'-6" h2=14'-0"				5'-0"	
157 / 167	JCT / 109 Tennessee	M2-1	133N	21"	15"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-0"				5'-0"	
		TN-6D	133P	30"	24"																		
158	NORTH / 31W / ←	M3-1	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		M1-4		30"	24"																		
		M6-1L		21"	15"																		
159	SOUTH / 109 Tennessee / ↑	M3-3	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		TN-6D		30"	24"																		
		M6-3		21"	15"																		
160	SOUTH / 31W / →	M3-3	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		M1-4		30"	24"																		
		M6-1R		21"	15"																		
161	SOUTH / 109 Tennessee / ←	M3-3	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		TN-6D		30"	24"																		
		M6-1L		21"	15"																		
162	SOUTH / 31W / ↑	M3-3	133N	24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
		M1-4		30"	24"																		
		M6-3		21"	15"																		

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J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
CIVIL
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134J

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	STEEL DESIGN (BREAK-AWAY) SUPPORT LENGTH	STEEL DESIGN (BREAK-AWAY) FOOTING	STEEL DESIGN (BREAK-AWAY) CONC. CU. YD.	STEEL DESIGN (BREAK-AWAY) REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
163	TO INTERSTATE 65 / NORTH / 109 Tennessee / →	M4-5 M1-1 M3-1 TN-6D M6-1R	133N	24″ 24″ 24″ 30″ 21″	12″ 24″ 12″ 24″ 15″								WHITE (REF.) BLACK	BLUE (REF.) WHITE (REF.)	0.080″ SHEET ALUM.	P6	h=19′-0″				5′-0″	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.
164 166	RIGHT LANE MUST TURN RIGHT	R3-7R	133N 133P	30″	30″								BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	U3	h=12′-6″				5′-0″	
165	ONLY ONLY ONLY	R3-8b	133P	60″	36″								BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	U3	h1=13′-0″ h2=13′-0″				5′-0″	
168	STOP FOR SCHOOL BUS LOADING OR UNLOADING	TN-10	133P	24″	30″								BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	U3	h=12′-6″				5′-0″	
171	HIGHWAY LITTERING $1500.00 FINE MAXIMUM	TN-13	133Q	24″	30″								BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	U3	h=12′-6″				5′-0″	
175 310	SOUTH / 31W	M3-3 M1-4	133Q 133N	24″ 30″	12″ 24″								BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	P8	h=14′-0″				5′-0″	
176	JCT / 31W	M2-1 M1-4	133R	21″ 30″	15″ 24″								BLACK	WHITE (REF.)	0.080″ SHEET ALUM.	P8	h=14′-0″				5′-0″	
178 265	JCT / INTERSTATE 65	M2-1 M1-1	133R 133U	21″ 24″	15″ 24″								WHITE (REF.)	BLUE (REF.)	0.080″ SHEET ALUM.	P8	h=13′-6″				5′-0″	
180	SOUTH INTERSTATE 65 NORTH / KEEP LEFT / KEEP RIGHT		133R	9′-0″	5′-0″	6″	1″	6″ 8″ 8″			EMOD	24″x24″	WHITE (REF.)	GREEN (REF.)	5-12″ ALUM. EXT.	S5x10	h1=15′-9″ h2=16′-3″	TYPE 5 D=1′-0″	0.18	50.1	7′-0″	
181	W1-1R / 30 MPH	W13-1P	133R	30″ 18″	30″ 18″								BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.080″ SHEET ALUM. 0.080″ SHEET ALUM.	P8	h=15′-0″				5′-0″	

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BRIAN LEE
REGISTERED ENGINEER
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COMMERCE
No. 107296
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS
DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134K

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
182	NORTH 31W ONLY D15-1 (MOD)		5′-0″	8′-0″	9″	2″	8″				24″x24″	R3-5L 30″x36″	WHITE (REF.)	GREEN (REF.)	8-12″ ALUM. EXT.	OVERHEAD SIGN						
	SOUTH 109 Tennessee ONLY D15-1	133R	5′-0″	8′-0″	9″	2″	8″				24″x24″	R3-5a 30″x36″	WHITE (REF.)	GREEN (REF.)	8-12″ ALUM. EXT.							
	SOUTH 31W 41 Tennessee D15-1 (MOD)		5′-0″	11′-0″	9″	2″	8″				24″x24″ 24″x24″ 24″x24″	R3-6R 30″x36″	WHITE (REF.)	GREEN (REF.)	11-12″ ALUM. EXT.							
194 238	W3-3	133S 133T	36″	36″									BLACK RED (REF.) GREEN (REF.)	YELLOW (FLOR.)	0.100″ SHEET ALUM.	P8	h=15′-0″				5′-0″	
196	W3-2	133S	36″	36″									BLACK RED (REF.) WHITE (REF)	YELLOW (FLOR.)	0.100″ SHEET ALUM.	P8	h=15′-0″				5′-0″	
199	YIELD R1-2	133S	36″X36″X36″										RED (REF.)	WHITE (REF.)	0.100″ SHEET ALUM.	P8	h1=12′-6″				5′-0″	
202 263	RIGHT LANE MUST TURN RIGHT R3-7	133S 133U	30″	30″									BLACK	WHITE (REF.)	0.100″ SHEET ALUM.	U3	h1=15′-3″				5′-0″	

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134L

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
204	↑ INTERSTATE 65 SOUTH Nashville INTERSTATE 65 NORTH → Louisville	133S	8'-0"	8'-0"	9"	1"	6" 8" 6" 8"	6" 6"		EMOD	24"x24" 24"x24"	TYPE "A"	WHITE (REF.)	GREEN (REF.)	8-12" ALUM. EXT.	S6x12.5	h1=19'-0" h2=19'-6"	TYPE 5 D=1'-0"	0.18	50.1	5'-0"	
205	W4-3R	133S	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUM.	P8	h=15'-0"				7'-0"	
288		133S																				
232		133T																				
207	W4-2L	133S	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUM.	P8	h=16'-0"				7'-0"	
225		133T																				
210	W1-8L	133S	18"	24"									BLACK	YELLOW (FLOR.)	0.080" SHEET ALUM.	U1	h1=12'-0"				5'-0"	
211		133S														USE ANGLE BRACKET ITEM NO. XX						MOUNTED ON BACK OF SIGN #208
222		133S																				MOUNTED ON BACK OF SIGN #209
223		133S																				MOUNTED ON BACK OF SIGN #212
224		133S																				MOUNTED ON BACK OF SIGN #213
215	W1-1L 20 MPH W13-1P	133S	30" 18"	30" 18"									BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.080" SHEET ALUM. 0.080" SHEET ALUM.	P8	h=15'-0"				5'-0"	
216	W1-1R 20 MPH W13-1P	133S	30" 18"	30" 18"									BLACK BLACK	YELLOW (FLOR.) YELLOW (FLOR.)	0.080" SHEET ALUM. 0.080" SHEET ALUM.	P8	h=15'-0"				5'-0"	
217	INTERSTATE 65 NORTH Louisville ←	133S	7'-0"	5'-0"	9"	1"	6" 8"	6"		EMOD	24"x24"	TYPE "A"	WHITE (REF.)	GREEN (REF.)	5-12" ALUM. EXT.	S4x7	h1=15'-0" h2=15'-6"	TYPE 5 D=1'-3"	0.18	50.1	5'-0"	
233	↑ INTERSTATE 65 NORTH Louisville INTERSTATE 65 SOUTH → Nashville	133T	8'-0"	8'-0"	12"	2"	6" 8" 6" 8"	6" 6"		EMOD	24"x24" 24"x24"	TYPE "A"	WHITE (REF.)	GREEN (REF.)	8-12" ALUM. EXT.	S6x12.5	h1=18'-0" h2=19'-6"	TYPE 6 D=1'-3"	0.27	76.7	5'-0"	
239	INTERSTATE 65 SOUTH Nashville ←	133T	7'-0"	5'-0"	9"	1"	6" 8"	6"		EMOD	24"x24"	TYPE "A"	WHITE (REF.)	GREEN (REF.)	5-12" ALUM. EXT.	S4x7.7	h1=15'-9" h2=16'-3"	TYPE 5 D=1'-3"	0.18	50.1	5'-0"	
262	SPEED LIMIT 40 R2-1	133U	30"	36"									BLACK	WHITE (REF.)	0.100" SHEET ALUM.	P8	h1=13'-0"				5'-0"	
282		133V																				
290		133"I"																				
292		133L																				
307		133N																				
313		133"O"																				
316		133P																				
317		133P																				
318		133R																				
326		133U																				

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SEALED BY

BRIAN J. LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107296
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
264	NORTH INTERSTATE 65 SOUTH KEEP LEFT | KEEP RIGHT	133U	9'-0"	5'-0"	9"	1"	6" 8" 8"			EMOD	24"x24"		WHITE (REF.)	GREEN (REF.)	5-12" ALUM. EXT.	S5x10	h1=15'-9" h2=16'-3"	TYPE 5 D=1'-3"	0.18	50.1	5'-0"	
269	ONE WAY R6-1L	133U	36"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	p5	h1=14'-0"				5'-0"	SLIP BASE REQUIRED ITEM NO. 713-11.21. SEE STD. DWG. T-S-23A.
271	YIELD R1-2	133U	36"X36"										RED (REF.)	WHITE (REF.)	0.100" SHEET ALUM.							
281	CENTER LANE ONLY R3-9B	133V	24"	36"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h1=13'-0"				5'-0"	
283	EISENHOWER INTERSTATE SYSTEM M1-10a	133D	36"	36"									WHITE (REF.)	BLUE (REF.)	0.100" SHEET ALUM.						7'-0"	MOUNT ON BARRIER WALL ITEM NO. 713-30.09 (3"x3")
291	SPEED LIMIT 55 R2-1	133"I"	30"	36"									BLACK	WHITE (REF.)	0.100" SHEET ALUM.	P8	h1=13'-0"				5'-0"	
314		133"O"																				
308	SOUTH 109 Tennessee M3-3 TN-6D	133N	24" 30"	12" 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
309	NORTH 31W M3-1 M1-4	133N	24" 30"	12" 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUM.	P8	h=14'-6"				5'-0"	
319	W4-3L	133T	36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUM.	P8	h=15'-0"				7'-0"	
320	LANE ENDS MERGE RIGHT W9-2R	133D	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21					PLACED AT 30 DEG. ANGLE AND INCLUDES SIGN STIFFENERS (SEE STD. DWG. T-S-10)	
321																MOUNTED ON BARRIER WALL BETWEEN I-65 AND CD-ROAD SEE STD. DWG. T-S-21						
322	LEFT LANE ENDS 1/2 MILE W4-2	133D	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	MOUNTED ON MEDIAN BARRIER SEE STD. DWG. T-S-21					PLACED AT 30 DEG. ANGLE AND INCLUDES SIGN STIFFENERS (SEE STD. DWG. T-S-10)	
323																MOUNTED ON BARRIER WALL BETWEEN I-65 AND CD-ROAD SEE STD. DWG. T-S-21						
324	W4-5	133B	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=14'-3" h2=14'-9"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
289	SPEED LIMIT 40 W3-5	133"I"	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUM.	S3x5.7	h1=14'-3" h2=14'-9"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
315		133"O"																				
325		133Q																				

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	134M

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

J. BRIAN LEE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 107396
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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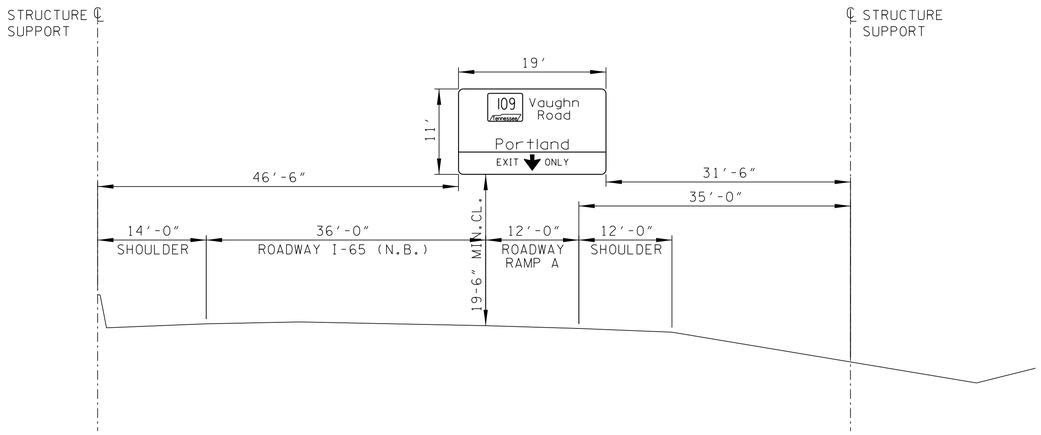
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXX

SPAN = 97'-0"



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 6A
STA. 1818+00.00 +/- I-65 N.B.L.

DESIGN DATA

SIGN DESIGN AREA = 528 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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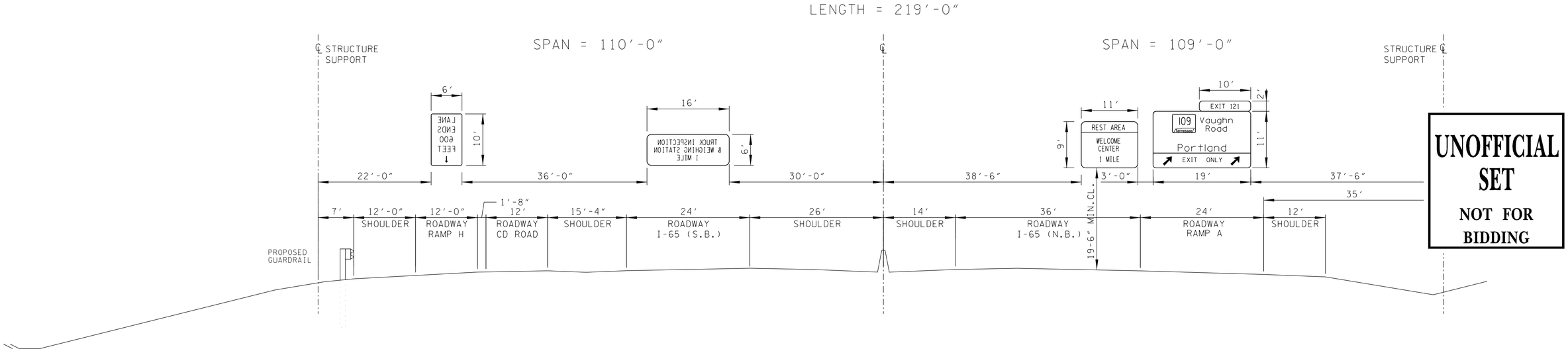
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135A

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 15, 16, 21, 22
STA. 1834+80.00 +/- I-65 BOTH N.B.L. AND S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 1188 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

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DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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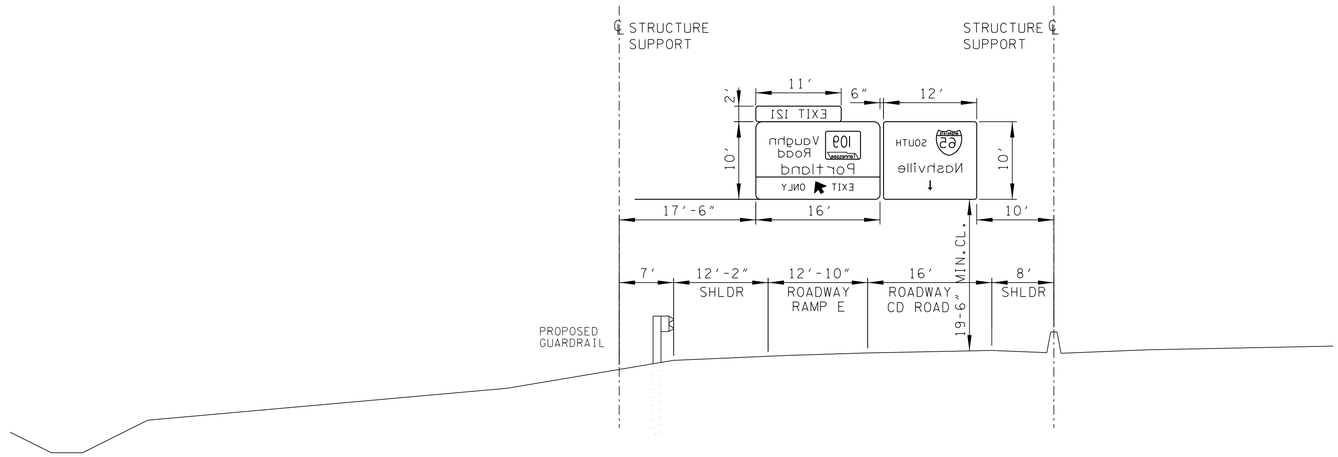
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135B

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX

SPAN = 56′-0″



OVERHEAD STRUCTURE

SIGN NO. 40, 50
STA. 1848+50.00 +/- I-65 S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 288 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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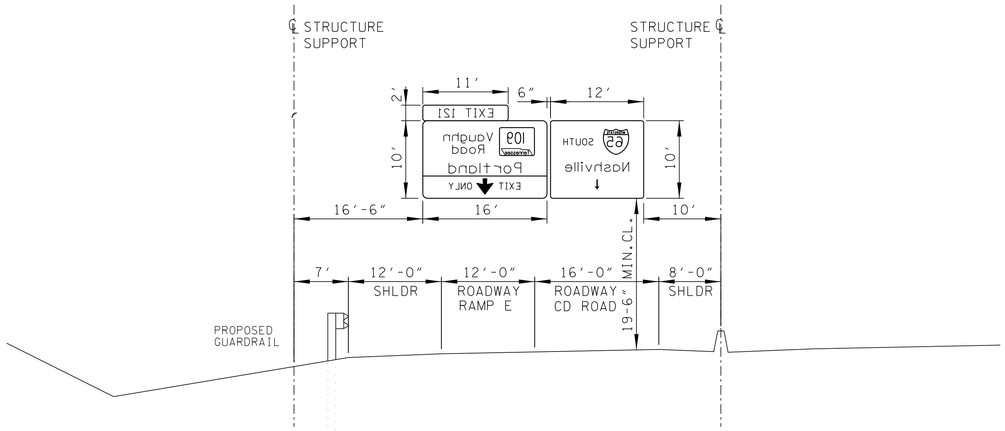
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135C

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX

SPAN = 55′-0″



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 52, 52A
STA. 1854+50.00 +/- I-65 S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 280 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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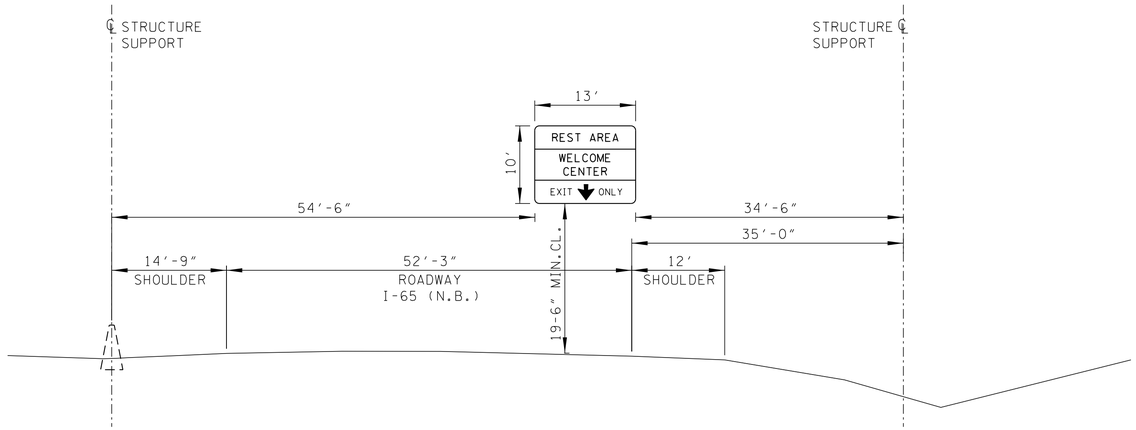
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135D

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX

SPAN = 102′-0″



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 66
STA. 1869+85.00 +/- I-65 S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 523 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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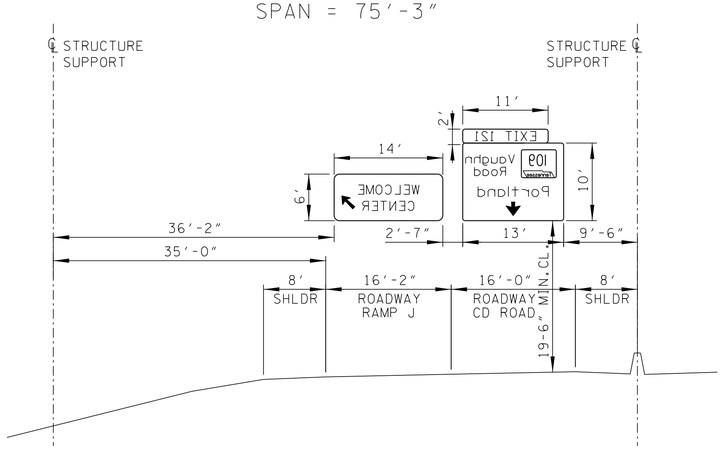
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135E

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX

SPAN = 75′-3″



OVERHEAD STRUCTURE

SIGN NO. 75, 76
STA. 1880+85.00 +/- I-65 S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 322 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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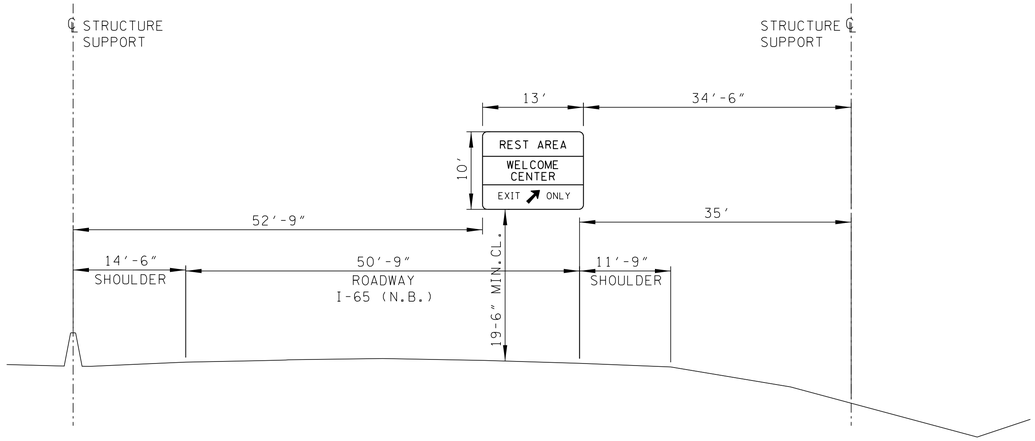
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135F

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX

SPAN = 100′-3″



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 87
STA. 1884+40.00 +/- I-65 N.B.L.

DESIGN DATA

SIGN DESIGN AREA = 508 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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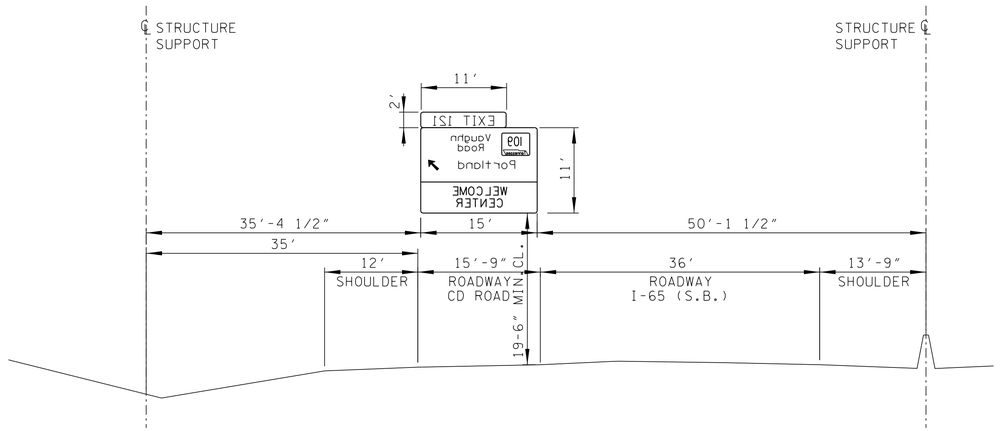
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135G

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX

SPAN = 100′-6″



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 91
STA. 1897+00.00 +/- I-65 BOTH N.B.L. AND S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 569 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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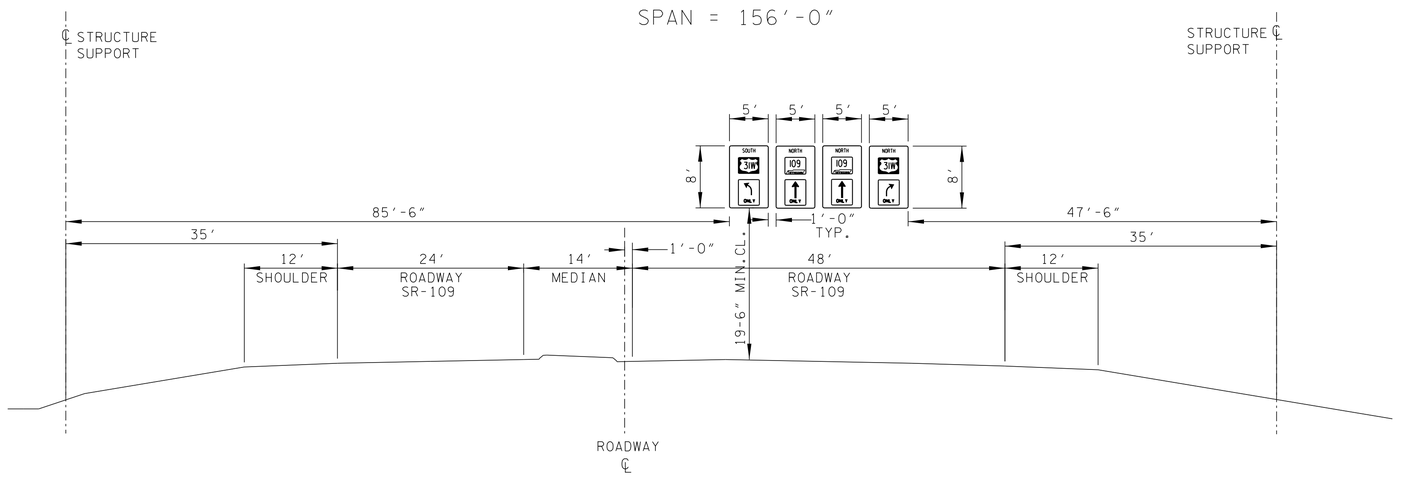
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135H

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 151
STA. 359+37.00 +/- SR-109 BOTH N.B.L. AND S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 576 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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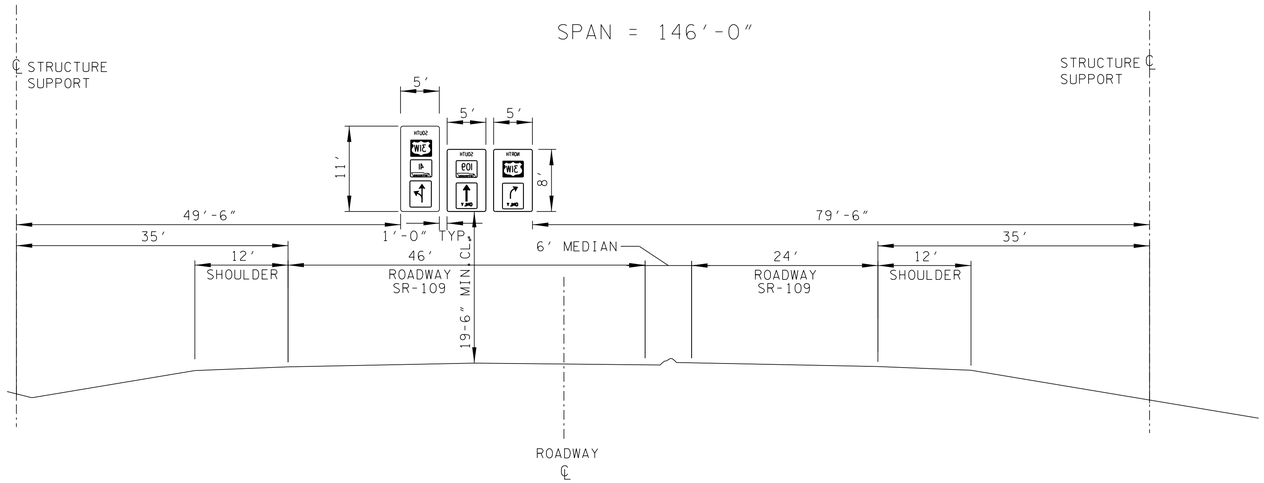
PROJECT NO.	YEAR	SHEET NO.
STP/HPP/NH-I-65-3(113)	2014	135"I"

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SIGN STRUCTURE
ID NUMBER
XXXXXXXXXXXXXX



PRIOR TO ORDERING ANY MATERIAL THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO STANDARD BRIDGE DRAWING "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS DRAWING ON THE T.D.O.T. WEBSITE.

THE COST OF THE FOOTINGS ARE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

OVERHEAD SIGN SHEETING TO BE TYPE III PRISMATIC OR BETTER.

LOCATION AND LENGTH OF THIS STRUCTURE CAN BE ADJUSTED TO MISS ANY EXISTING UTILITIES AND/OR DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

OVERHEAD STRUCTURE

SIGN NO. 182
STA. 367+00.00 +/- SR-109 BOTH N.B.L. AND S.B.L.

DESIGN DATA

SIGN DESIGN AREA = 770 sq.ft.
WIND VELOCITY=90mph
SOIL DATA:N=12,Pp=1.89Ksf & K=94.3Kcf

** THIS SIGN STRUCTURE LOCATION CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

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TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	136

END PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1130+15.00 S.R. 41 LT.

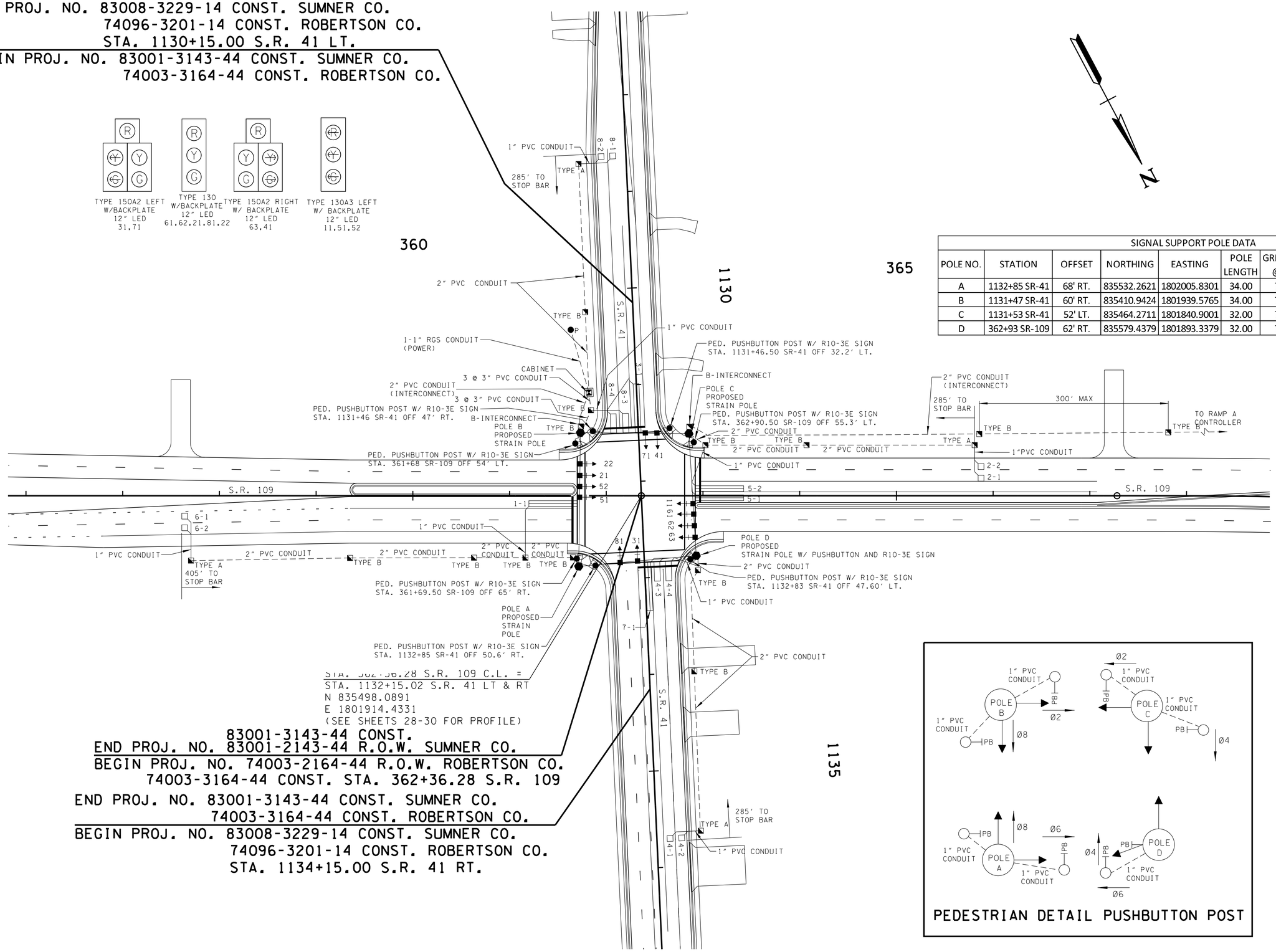
BEGIN PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.

TYPE 150A2 LEFT W/BACKPLATE 12" LED 31,71

TYPE 130 W/BACKPLATE 12" LED 61,62,21,81,22

TYPE 150A2 RIGHT W/ BACKPLATE 12" LED 63,41

TYPE 130A3 LEFT W/ BACKPLATE 12" LED 11,51,52



STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 28-30 FOR PROFILE)

83001-3143-44 CONST.
END PROJ. NO. 83001-2143-44 R.O.W. SUMNER CO.
BEGIN PROJ. NO. 74003-2164-44 R.O.W. ROBERTSON CO.
74003-3164-44 CONST. STA. 362+36.28 S.R. 109
END PROJ. NO. 83001-3143-44 CONST. SUMNER CO.
74003-3164-44 CONST. ROBERTSON CO.
BEGIN PROJ. NO. 83008-3229-14 CONST. SUMNER CO.
74096-3201-14 CONST. ROBERTSON CO.
STA. 1134+15.00 S.R. 41 RT.

SIGNAL SUPPORT POLE DATA

POLE NO.	STATION	OFFSET	NORTHING	EASTING	POLE LENGTH	GRND ELEV. @ POLE	ATTACH ELEV.	MOMENT CAPACITY	FOOTING DEPTH
A	1132+85 SR-41	68' RT.	835532.2621	1802005.8301	34.00	740.40	771.40	304	21'(4'DIA.)
B	1131+47 SR-41	60' RT.	835410.9424	1801939.5765	34.00	740.30	771.30	293	24'
C	1131+53 SR-41	52' LT.	835464.2711	1801840.9001	32.00	741.90	770.90	254	22'
D	362+93 SR-109	62' RT.	835579.4379	1801893.3379	32.00	742.40	771.40	247	22'

PEDESTRIAN DETAIL PUSHBUTTON POST

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

MATTHEW C. EVERETT
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT

SR-109 AT SR-41
ROBERTSON/SUMNER CO'S

SCALE: 1"=50'

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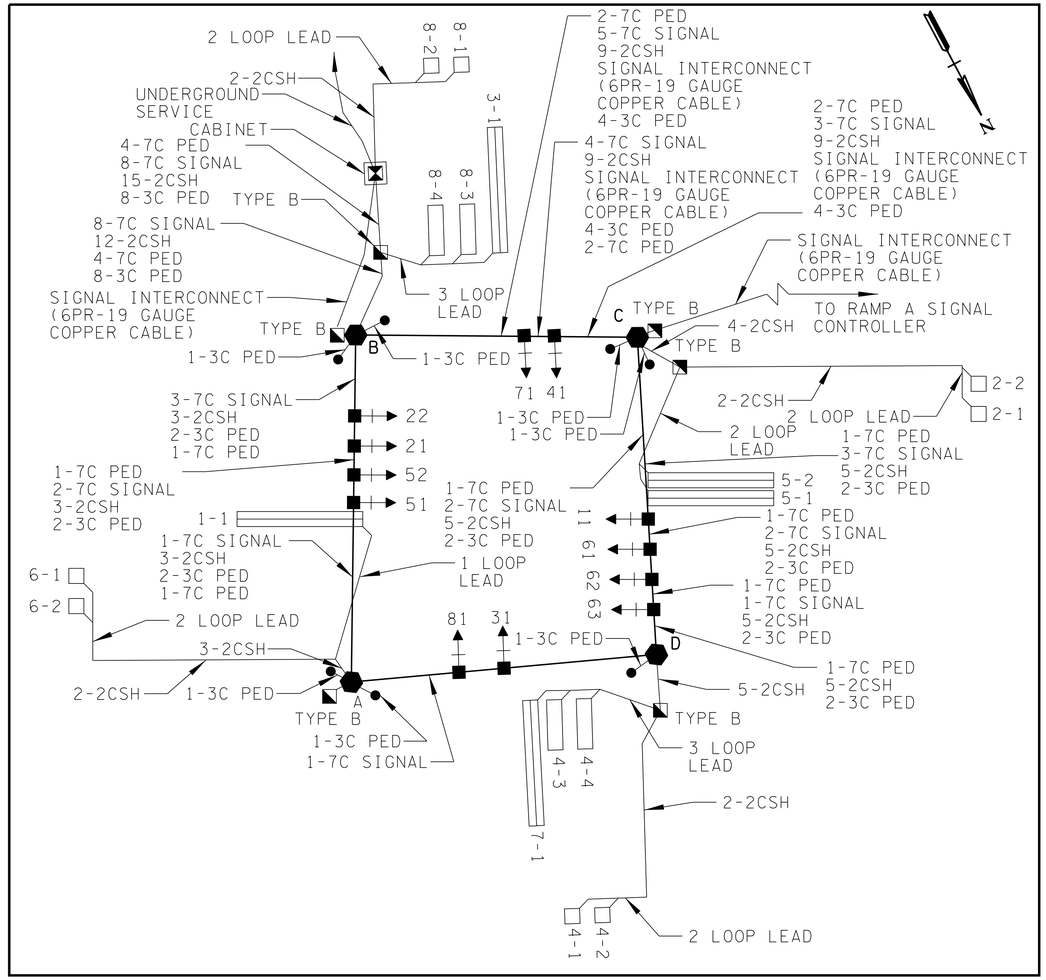
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	136A

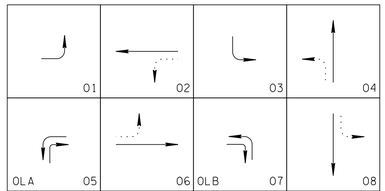


WIRING DIAGRAM

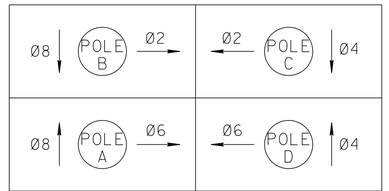
LOOP AND DETECTOR ASSIGNMENTS							
LOOP NO.	DETECTOR	TURNS	LOOP LENGTH	MODE	TIMING	ASSOCIATED PHASE	COMMENTS
1-1	1	2-4-2	50 FT	PRES		1	QUADRUPOLE
2-1	2	3	6 FT	PULSE		2	IN SERIES WITH 2-2
2-2	3	3	6 FT	PULSE		2	IN SERIES WITH 2-1
3-1	4	2-4-2	50 FT	PRES		3	QUADRUPOLE
4-1	5	3	6 FT	PULSE		4	IN SERIES WITH 4-2
4-2	6	3	6 FT	PULSE		4	IN SERIES WITH 4-1
4-3	7	3	20 FT	PRES		4	IN SERIES WITH 4-4
4-4	8	3	20 FT	PRES		4	IN SERIES WITH 4-3
5-1	9	2-4-2	50 FT	PRES		5	QUADRUPOLE
5-2	10	2-4-2	50 FT	PRES		5	QUADRUPOLE
6-1	11	3	6 FT	PULSE		6	IN SERIES WITH 6-2
6-2	12	3	6 FT	PULSE		6	IN SERIES WITH 6-1
7-1	13	2-4-2	50 FT	PRES		7	QUADRUPOLE
8-1	14	3	6 FT	PULSE		8	IN SERIES WITH 8-2
8-2	15	3	6 FT	PULSE		8	IN SERIES WITH 8-1
8-3	16	3	20 FT	PRES		8	IN SERIES WITH 8-4
8-4	17	3	20 FT	PRES		8	IN SERIES WITH 8-3

- ALL LOOPS TO BE PREFORMED AND PLACED WITHIN LOWER LIFTS OF ASPHALT PRIOR TO FINAL PAVING. MINIMUM DEPTH 3".
- LOOPS ARE 6 FT IN WIDTH AND TO CENTERED IN TRAVEL LANE.
- LOOP WIRE CONNECTIONS SHALL BE WIRED TO PROVIDE THE APPROPRIATE INDUCTANCE AS REQUIRED BY STD. DWG. T-SG-3.

SIGNAL PHASING DIAGRAM



PEDESTRIAN PHASING DIAGRAM



UNOFFICIAL SET
NOT FOR BIDDING

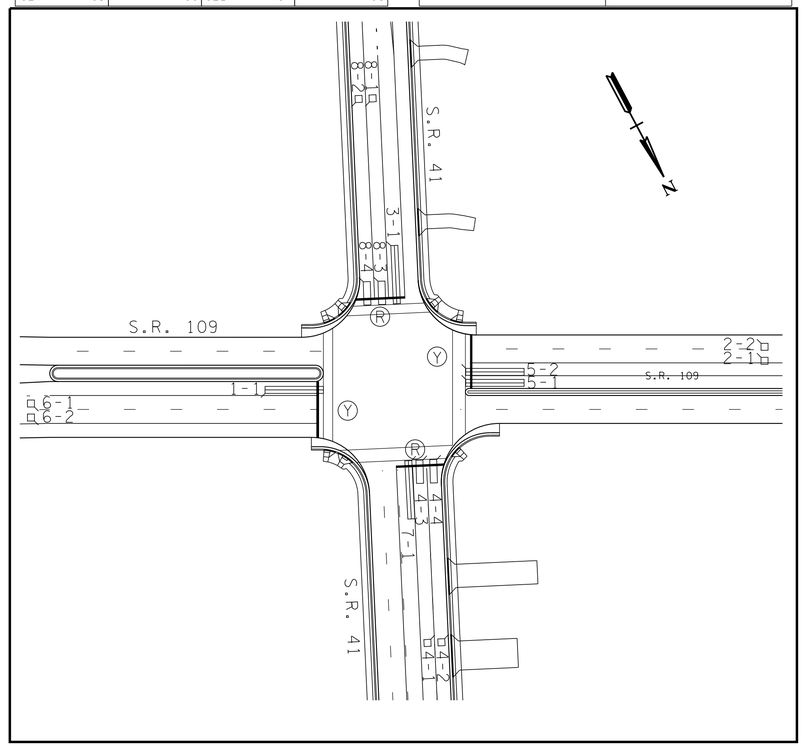
VOLUME - DENSITY TIMINGS (SECS)														
PHASE	INITIAL INTERVAL	ADDED INITIAL PER ACTUATION	PASSAGE TIME	MINIMUM GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MAX	MAX II	CLEARANCE		PEDESTRAIN		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED	WALK	FLASHING DON'T		
1	5	-	5	3	-	-	7.0	-	5	1.5	-	-	-	NL
2	15	-	5	3	14	14	34.0	-	4.5	1.5	7	14	MAX	L
3	5	-	5	3	-	-	6	-	4.5	2	-	-	-	NL
4	15	-	5	3	9	9	38.0	-	4.5	2	7	21.5	-	L
5	5	-	5	3	-	-	15	-	4.5	1.5	-	-	-	NL
6	15	-	5	3	9	9	26	-	5	1.5	7	18	MAX	L
7	5	-	5	3	-	-	5.5	-	4.5	2	-	-	-	NL
8	15	-	5	3	7	7	38	-	4.5	2	7	21.5	-	L

CYCLE LENGTH: 110 SECONDS OFFSET: 83 SECONDS

NOTES:

(1) NL = NONLOCK; L = LOCK

(2) THESE TIMINGS ARE INITIAL AND SHOULD BE ADJUSTED BY THE ENGINEER BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.



FLASHING OPERATION AND DETECTION LOOP NUMBERING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, AND DETECTOR ASSIGNMENT

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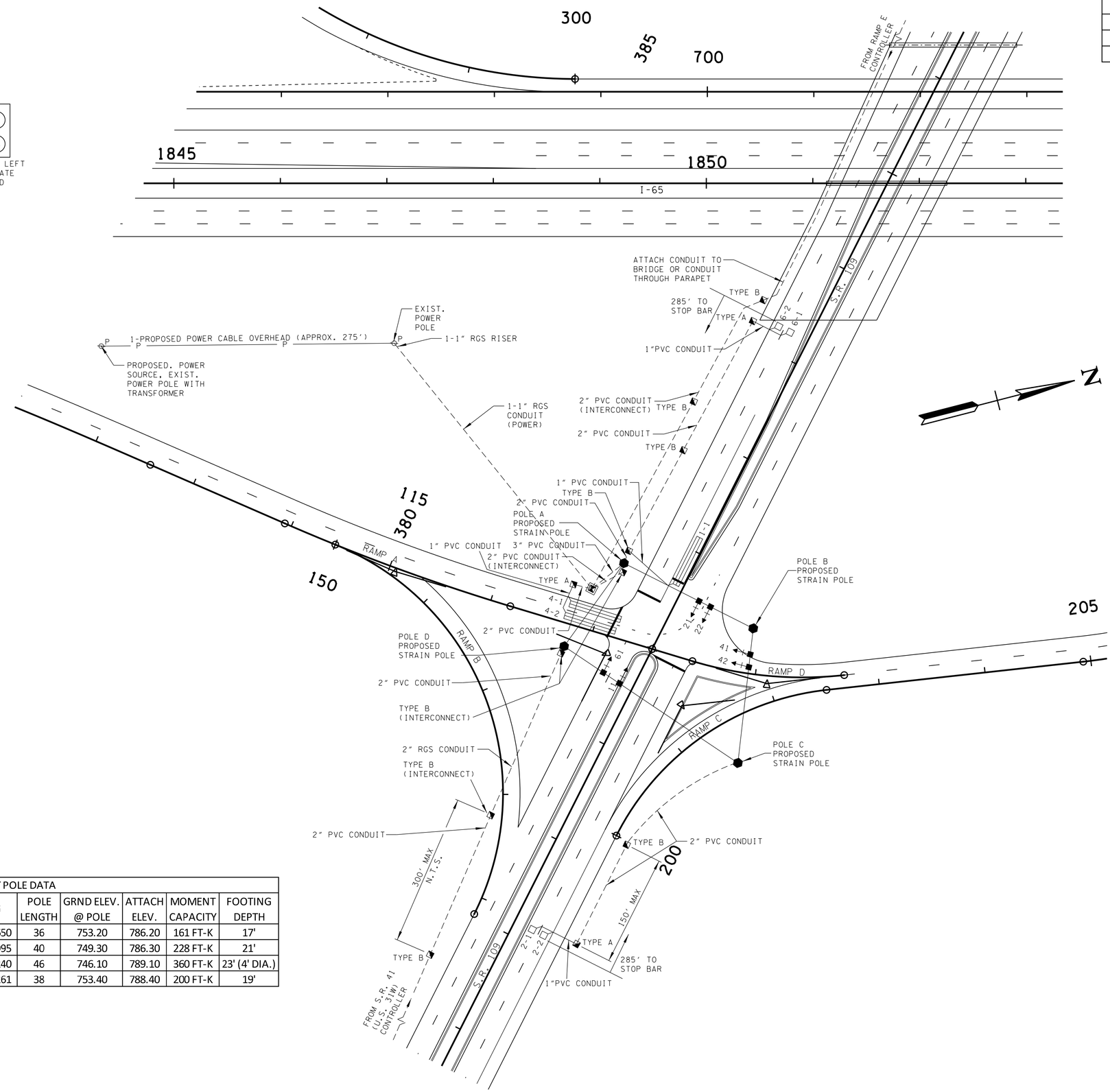
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	136B

TYPE 130A3 LEFT W/BACKPLATE 12" LED 41, 42

TYPE 130 W/BACKPLATE 12" LED 21, 22, 61

TYPE 150A2 LEFT W/BACKPLATE 12" LED 11



SIGNAL SUPPORT POLE DATA									
POLE NO.	STATION	OFFSET	NORTHING	EASTING	POLE LENGTH	GRND ELEV. @ POLE	ATTACH ELEV.	MOMENT CAPACITY	FOOTING DEPTH
A	380+60	60' LT.	836485.8178	1800383.6650	36	753.20	786.20	161 FT-K	17'
B	380+60	76' RT.	836588.1001	1800473.2995	40	749.30	786.30	228 FT-K	21'
C	201+40 RAMP C	39' RT.	836542.6254	1800592.0240	46	746.10	789.10	360 FT-K	23' (4' DIA.)
D	379+65	75' LT.	836411.9244	1800445.2261	38	753.40	788.40	200 FT-K	19'

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DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT

SR-109 @ RAMPS A & D
ROBERTSON COUNTY

SCALE: 1"=50'

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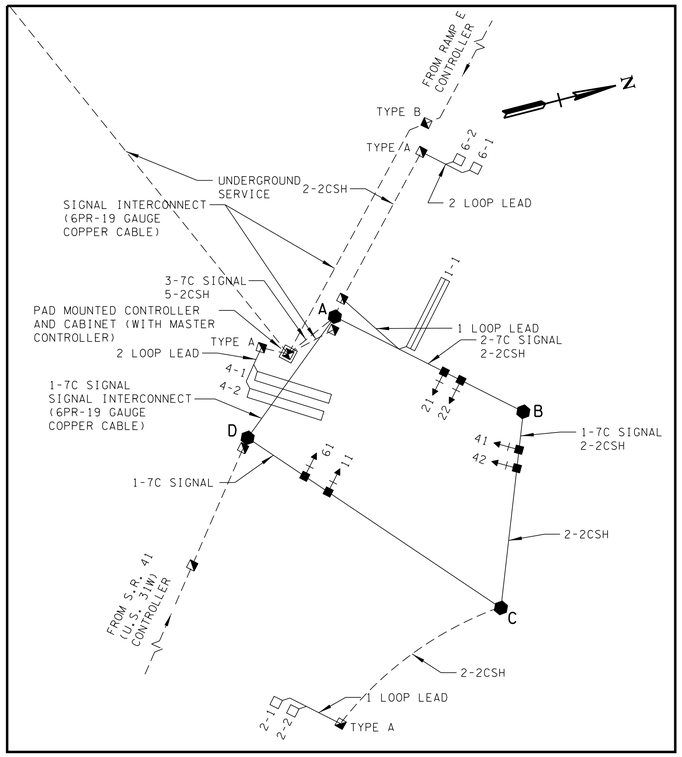
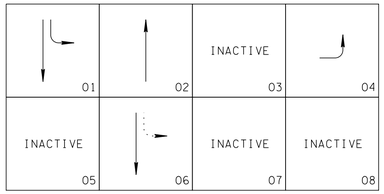
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	136C



WIRING DIAGRAM

SIGNAL PHASING DIAGRAM



LOOP AND DETECTOR ASSIGNMENTS							
LOOP NO.	DETECTOR	TURNS	LOOP LENGTH	MODE	TIMING	ASSOCIATED PHASE	COMMENTS
1-1	1	2-4-2	50 FT	PRES		1	QUADRUPOLE
2-1	2	3	6 FT	PULSE		2	IN SERIES WITH 2-2
2-2	3	3	6 FT	PULSE		2	IN SERIES WITH 2-1
4-1	4	3	50 FT	PRES		4	IN SERIES WITH 4-2
4-2	5	3	50 FT	PRES		4	IN SERIES WITH 4-1
6-1	6	3	6 FT	PULSE		6	IN SERIES WITH 6-2
6-2	7	3	6 FT	PULSE		6	IN SERIES WITH 6-1

- ALL LOOPS TO BE PREFORMED AND PLACED WITHIN CONCRETE OR IN LOWER LIFTS OF ASPHALT PRIOR TO FINAL PAVING. MINIMUM DEPTH IN ASPHALT 3". 4" TYPICAL DEPTH IN CONCRETE.
- LOOP ARE 6 FT IN WIDTH AND BE CENTERED IN TRAVEL LANE.
- LOOP WIRE CONNECTIONS SHALL BE WIRED TO PROVIDE THE APPROPRIATE INDUCTANCE AS REQUIRED BY STD. DWG. T-SG-3.

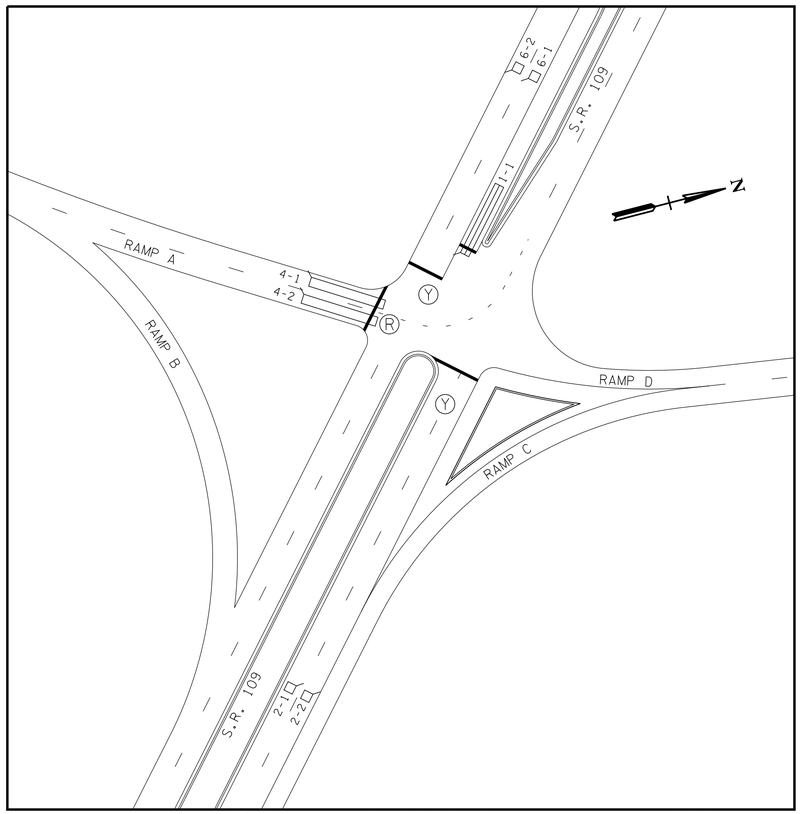
VOLUME - DENSITY TIMINGS (SECS)														
PHASE	INITIAL INTERVAL	ADDED INITIAL PER ACTUATION	PASSAGE TIME	MINIMUM GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MAX	MAX II	CLEARANCE		PEDESTRAIN		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED	WALK	FLASHING DON'T		
1	5	-	5	3	-	-	37.5	-	4.5	1	-	-	-	NL
2	15	-	5	3	9	9	26.5	-	4.5	1	-	-	MAX	L
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	5	-	5	3	-	-	29.5	-	4	1.5	-	-	-	L
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	15	-	5	3	23	23	69.5	-	4.5	1	-	-	MAX	L
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CYCLE LENGTH: 110 SECONDS OFFSET: 0 SECONDS

NOTES:

(1) NL = NONLOCK; L = LOCK

(2) THESE TIMINGS ARE INITIAL AND SHOULD BE ADJUSTED BY THE ENGINEER BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.



FLASHING OPERATION AND DETECTION LOOP NUMBERING

UNOFFICIAL SET
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DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, AND DETECTOR ASSIGNMENT

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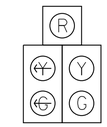
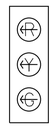
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

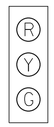
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	136D



TYPE 150A2 LEFT W/BACKPLATE 12" LED 11



TYPE 130A3 LEFT W/ BACKPLATE 12" LED 41,42



TYPE 130 W/BACKPLATE 12" LED 21,22,61

STA. 450+00.00 RAMP H C.L.=
49.00' LT STA. 395+08.30 S.R. 109
N 837556.8526
E 1799394.8706
(SEE SHEETS 24X-24Z FOR PROFILES)

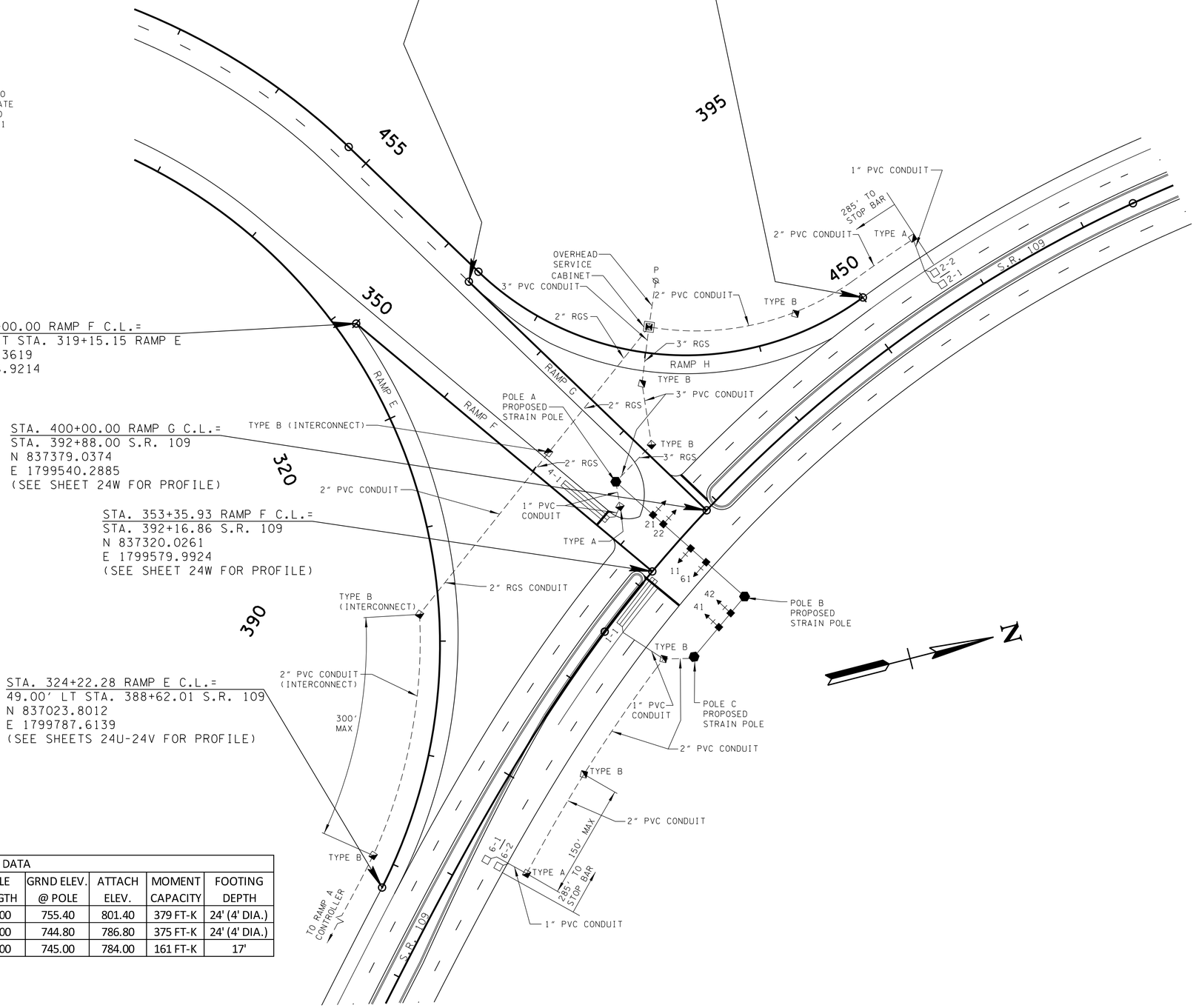
STA. 402+86.96 RAMP G C.L.=
12.00' LT STA. 453+64.12 RAMP H
N 837228.3613
E 1799296.0744

STA. 350+00.00 RAMP F C.L.=
16.00' LT STA. 319+15.15 RAMP E
N 837124.3619
E 1799306.9214

STA. 400+00.00 RAMP G C.L.=
STA. 392+88.00 S.R. 109
N 837379.0374
E 1799540.2885
(SEE SHEET 24W FOR PROFILE)

STA. 353+35.93 RAMP F C.L.=
STA. 392+16.86 S.R. 109
N 837320.0261
E 1799579.9924
(SEE SHEET 24W FOR PROFILE)

STA. 324+22.28 RAMP E C.L.=
49.00' LT STA. 388+62.01 S.R. 109
N 837023.8012
E 1799787.6139
(SEE SHEETS 24U-24V FOR PROFILE)



SIGNAL SUPPORT POLE DATA								
POLE NO.	STATION	OFFSET	NORTHING	EASTING	POLE LENGTH	GRND ELEV. @ POLE	ATTACH ELEV.	MOMENT CAPACITY	FOOTING DEPTH
A	392+54	75' LT.	837308.7541	1799496.5502	48.00	755.40	801.40	379 FT-K	24' (4' DIA.)
B	392+54	75' RT.	837392.3265	1799621.1120	44.00	744.80	786.80	375 FT-K	24' (4' DIA.)
C	391+81	75' RT.	837336.6642	1799660.9515	42.00	745.00	784.00	161 FT-K	17'

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT

SR-109 @ RAMP F
ROBERTSON COUNTY

SCALE: 1"=50'

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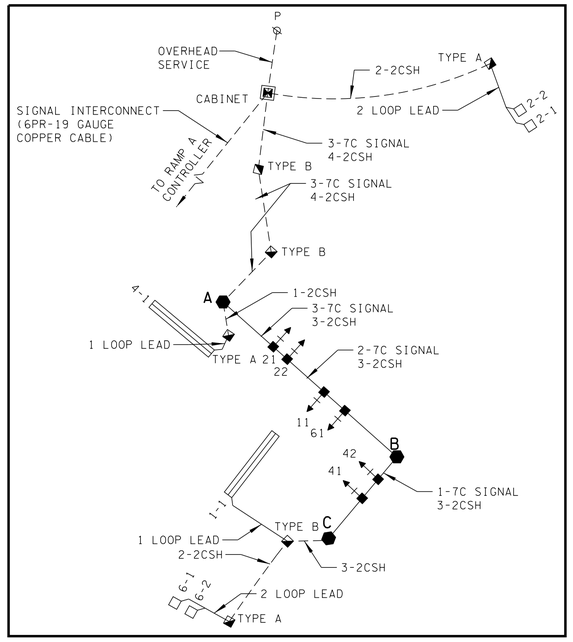
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	STP/HPP/NH-I-65-3(113)	136E



WIRING DIAGRAM

LOOP AND DETECTOR ASSIGNMENTS							
LOOP NO.	DETECTOR	TURNS	LOOP LENGTH	MODE	TIMING	ASSOCIATED PHASE	COMMENTS
1-1	1	2-4-2	50 FT	PRES		1	QUADRUPOLE
2-1	2	3	6 FT	PULSE		2	IN SERIES WITH 2-2
2-2	3	3	6 FT	PULSE		2	IN SERIES WITH 2-1
4-1	4	3-6-3	50 FT	PRES		4	QUADRUPOLE
6-1	5	3	6 FT	PULSE		6	IN SERIES WITH 6-2
6-2	6	3	6 FT	PULSE		6	IN SERIES WITH 6-1

- ALL LOOPS TO BE PREFORMED AND PLACED WITHIN CONCRETE OR IN LOWER LIFTS OF ASPHALT PRIOR TO FINAL PAVING. MINIMUM DEPTH IN ASPHALT 3". 4" TYPICAL DEPTH IN CONCRETE.
- LOOP ARE 6 FT IN WIDTH AND CENTERED IN TRAVEL LANE.
- LOOP WIRE CONNECTIONS SHALL BE WIRED TO PROVIDE THE APPROPRIATE INDUCTANCE AS REQUIRED BY STD. DWG. T-SG-3.

SIGNAL PHASING DIAGRAM

01	02	INACTIVE 03	04
INACTIVE 05	06	INACTIVE 07	INACTIVE 08

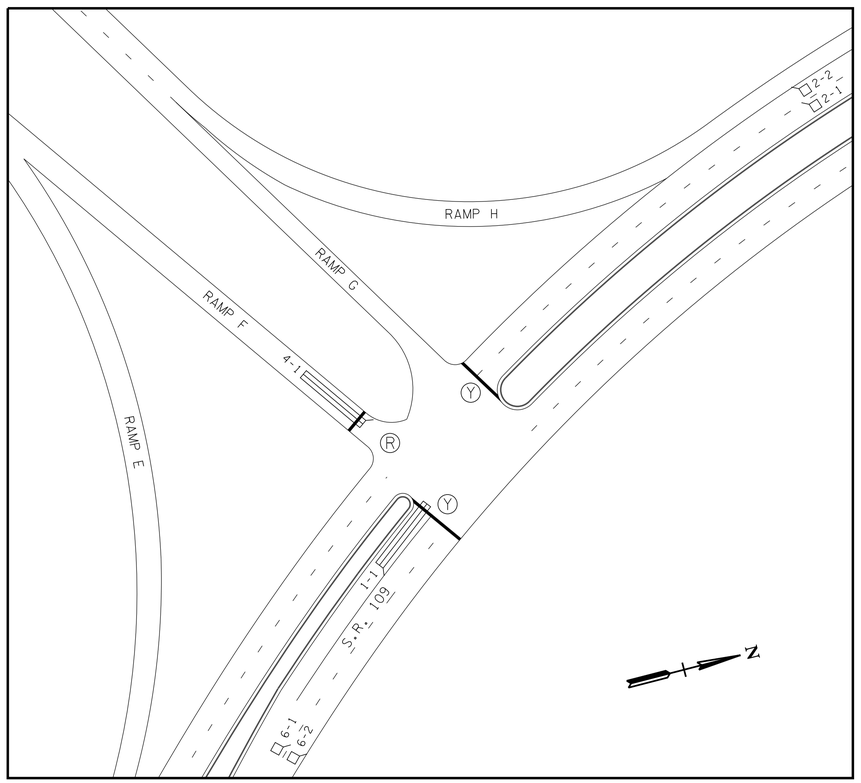
VOLUME - DENSITY TIMINGS (SECS)														
PHASE	INITIAL INTERVAL	ADDED INITIAL PER ACTUATION	PASSAGE TIME	MINIMUM GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MAX	MAX II	CLEARANCE		PEDESTRAIN		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED	WALK	FLASHING DON'T		
1	5	-	5	3	-	-	9.5	-	4.5	1.5	-	-	-	NL
2	15	-	5	3	9	9	27.5	-	4.5	1.5	-	-	MAX	L
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	5	-	5	3	-	-	55	-	4	2	-	-	-	L
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	15	-	5	3	14	14	43	-	4.5	1.5	-	-	MAX	L
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CYCLE LENGTH: 110 SECONDS OFFSET: 92 SECONDS

NOTES:

(1) NL = NONLOCK; L = LOCK

(2) THESE TIMINGS ARE INITIAL AND SHOULD BE ADJUSTED BY THE ENGINEER BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.



FLASHING OPERATION AND DETECTION LOOP NUMBERING

UNOFFICIAL SET
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SEALED BY

MATTHEW C. EVERETT
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 121126
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, AND DETECTOR ASSIGNMENT

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TENN.	YEAR	SHEET NO.
	2012	138
FED. AID PROJ. NO.	STP/HPP/NH-65-3(113)	
STATE PROJ. NO.	ROBERTSON : 74003-1160-44 SUMNER : 83001-1140-44	

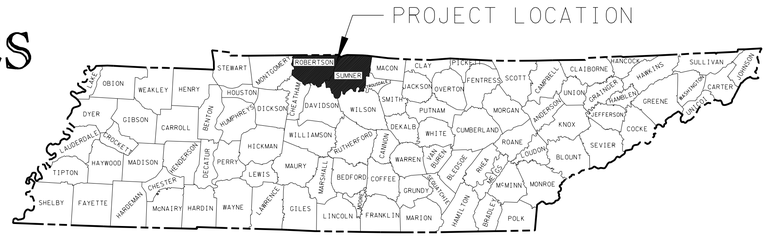
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ROBERTSON-SUMNER COUNTIES

INTERSTATE 65 INTERCHANGE @ STATE ROUTE 109
INCLUDING I-65 WIDENING AND
S.R. 109 EXTENSION

PRELIMINARY PLANS

STATE HIGHWAY NO. 109 F.A.H.S. NO. I-65



END PROJ. NO. 74003-1160-44 R.O.W.
STA. 1881+83.78

END PROJ. NO. 74003-1160-44
R.O.W. ROBERTSON CO.
S.R. 109 STA. 420+78.00

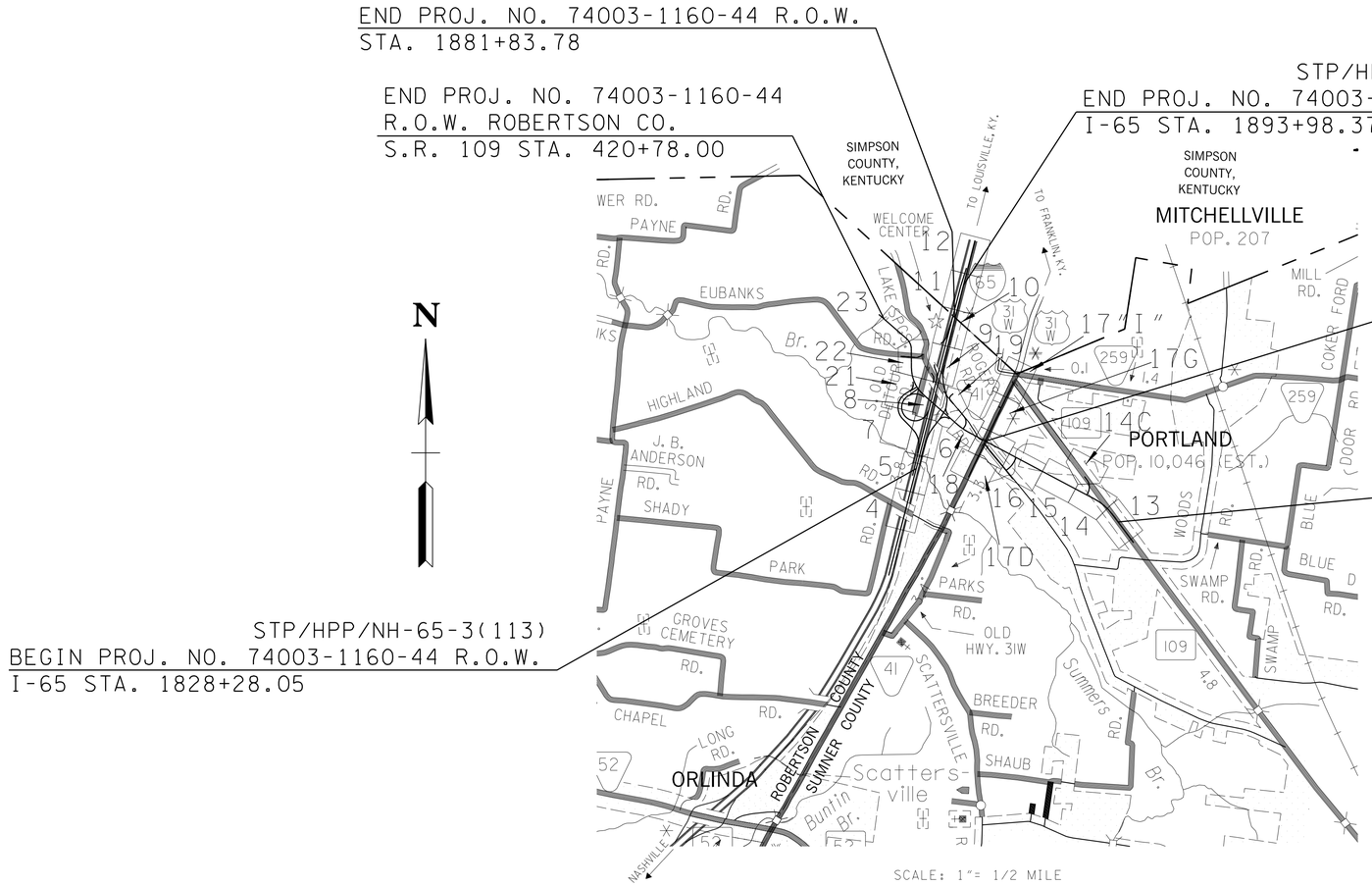
STP/HPP/NH-65-3(113)
END PROJ. NO. 74003-1160-44 R.O.W.
I-65 STA. 1893+98.37

END PROJ. NO. 83001-1140-44
R.O.W. SUMNER CO.

BEGIN PROJ. NO. 74003-1160-44
R.O.W. ROBERTSON CO.

BEGIN PROJ. NO. 83001-1140-44
R.O.W. SUMNER CO.
S.R. 109 STA. 308+00.00

STP/HPP/NH-65-3(113)
BEGIN PROJ. NO. 74003-1160-44 R.O.W.
I-65 STA. 1828+28.05



R.O.W. LENGTH - I-65 1.244 MILES
R.O.W. LENGTH - S.R. 109 2.136 MILES

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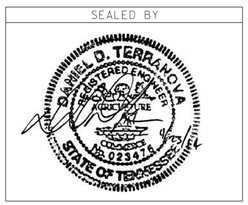

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
			138A

GENERAL GEOTECHNICAL NOTES

General Roadway Construction

1. Clearing and grubbing operations should be completed in accordance with Section 201 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

2. Removal of existing structures and other obstructions should be completed in accordance with Section 202 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

3. Procedures should be performed as required to control erosion and siltation in accordance with Section 209 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

4. Embankment construction should be conducted in accordance with Section 205 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

5. All soils, whether from roadway excavation or borrow, may require manipulation to obtain the proper moisture range prior to compaction. Laboratory test results indicate that the natural moisture contents of numerous samples collected during the subsurface exploration were at or above the soil's optimum moisture content. The results of the natural moisture content testing are shown adjacent to the graphical boring logs depicted on the Profile Sheets. The optimum moisture contents and maximum dry densities resulting from standard Proctor testing performed on representative bag samples collected from cut sections are summarized on the Soil Description Sheet. The compaction curves are presented in the appendix of the geotechnical report. The Contractor should be aware that manipulation and/or aeration will be necessary in certain areas to achieve the moisture content requirements set forth in Section 205 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

6. Grade adjustments are planned for numerous intersecting roads to accommodate the new SR-109 alignment. As such, existing bituminous pavement should be broken until all cleavage planes are destroyed, or the pavement shall be removed entirely as conditions warrant, in accordance with Section 205 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

7. Soil should not be stored/stock-piled at the top of any cut slopes.

8. Graded Solid Rock shall consist of the removal and satisfactory placement of sound, non-degradable rock with a maximum size of 3 feet. At least 50 percent of the rock shall be uniformly distributed between 1 foot and 3 feet in diameter and no greater than 10 percent shall be less than 2 inches in diameter. The material shall be roughly equi-dimensional in shape. Thin, slabby material will not be accepted. When the material is subjected to five alterations of the sodium sulfate soundness test (AASHTO T104), the weighted percentage of loss shall not be more than 12. The material shall be approved by the Engineer.

SOIL DESCRIPTION TABLE

Sample Number	Description	LL	PI	Classification	
				AASHTO	USCS
1	Red brown lean clay with chert, moist, stiff	32-43	13-27	A-7-6	CL
2	Brown lean clay with chert, moist, stiff	28-34	8-21	A-7-6	CL
3	Red brown fat clay with chert, moist to wet, stiff to very stiff	53-68	28-47	A-6	CH
4	Gray lean clay with sand, moist to wet, stiff			A-7-6	CL

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL GEOTECHNICAL NOTES AND SOIL DESCRIPTIONS

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
			138

GEOTECHNICAL SYMBOL SHEET

AASHTO Classification of Soils and Soil-Aggregate Mixtures

General Classification	Granular Materials (35% or less passing 0.075 mm)							Silt-Clay Materials (More than 35% passing 0.075 mm)			
Group Classification	A-1		A-3	A-2				A-4	A-5	A-6	A-7
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6
Sieve Analyses, percent Passing											
2.00 mm (No. 10)	50 max	---	---	---	---	---	---	---	---	---	---
0.425 mm (No. 40)	30 max	50 max	51 min	---	---	---	---	---	---	---	---
0.075 mm (No. 200)	15 max	25 max	10 max	35 max	35 max	35 max	35 max	36 min	36 min	36 min	36 min
Characteristics of Fraction Passing 0.425 mm (No. 40)											
Liquid Limit	---		---	40 max	41 min	40 max	41 min	40 max	41 min	40 max	41 min
Plasticity index	6 max		N.P.	10 max	10 max	11 min	11 min	10 max	10 max	11 min	11 min

Unified Soil Classifications

MAJOR DIVISIONS		SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel-sand mixtures, little or no fines.
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GM	Silty gravels, gravel-sand-silt mixtures.
		GC	Clayey gravels, gravel-sand-clay mixtures.
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines.
		SP	Poorly graded sands or gravelly sands, little or no fines.
		SM	Silty sands, sand-silt mixtures.
		SC	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS	SILTS AND CLAYS LL IS LESS THAN 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	SILTS AND CLAYS LL IS GREATER THAN 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
		CH	Inorganic clays of high plasticity, fat clays.
UNCLASSIFIED MATERIAL		NONE	Non-classified material (i.e. overburden, pavement, slag, etc.) Include visual description.

(1) 18' — Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

● 18' Boring 1 — Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

[1] — Sample Number (The number inside the box indicates Sample Number from the Soil Description Sheet.)

▼ (Date) — Water Elevation

■ — Thin-walled Tube Sample

< — Standard Penetration Test Sample

N — Penetration Resistance

Reason for Termination	Recorded in Drill Log	Reported "N-Value"
50 Blows in Seating Increment	50/4 in.	R/0.33 ft.
50 Blows in 2nd Increment	25-50/4 in.	50/0.33 ft.
50 Blows in 3rd Increment	25-25-50/4 in.	75/0.83 ft.
Total of 100 Blows	20-40-40/4 in.	80/0.83 ft.

Qu (psf)	Unconfined Compressive Strength
UU (psf)	Unconsolidated Undrained Triaxial Strength
w%	Moisture Content
S+C	Silt + Clay (% finer than No. 200 Sieve)
STD RQD	Rock Quality Designation (Standard Method)
SDI(JS)	Slake Durability Index (Jar Slake Test)
REC	Core Recovery
R	Refusal - Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.
NR	Refusal Not Encountered
ϕ	Angle of Internal Friction (Total Stress)
$\overline{\phi}$	Angle of Internal Friction (Effective Stress)
c (psf)	Cohesion (Total Stress)
$\overline{c}$ (psf)	Cohesion (Effective Stress)
γ (psf)	Total Unit Weight
TSR	Top of Solid Rock Suitable for Presplit
TWR	Top of Weathered Rock Zone
OB	Overburden Bench

LIMESTONE

SANDSTONE

DURABLE SHALE (SDI ≥ 95)

NONDURABLE SHALE (SDI < 95)

COAL

GRADED SOLID ROCK

NO. 357 STONE

UNOFFICIAL SET
NOT FOR BIDDING

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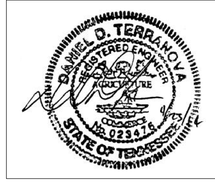

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LEGEND SHEET

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
			138C

SINKHOLE TREATMENT 4, INACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE NO. 57 STONE FILL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION

1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK AS DEFINED BY THE ENGINEER OR GEOLOGIST MAKING SURE TO REMOVE ALL SOIL DEBRIS.

2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.

3. ALTERNATE LAYERS OF GRADED SOLID ROCK (CLASIFICATION 203.02, BORROW EXCAVATION) (3-5 FT. IN DEPTH) AND HIGH SLUMP CONCRETE (OR FLOWABLE FILL).
   HIGH SLUMP CONCRETE SHALL BE CONCRETE WITH A SLUMP OF 7-9".

   HIGHT SLUMP CONCRETE OR FLOWABLE FILL SHALL BE APPLIED AFTER A LAYER OF GRADED SOLID ROCK UNTIL THE CONCRETE (OR FLOWABLE FILL) JUST COVERS THE GRADED ROCK LAYER. THE NEXT LAYER OF GRADED SOLID ROCK SHALL BE PLACED IMMEDIATELY AFTER THE PLACEMENT OF THE CONCRETE (OR FLOWABLE FILL). THE PURPOSE OF THIS IS TO INTERMIX THE MATERIALS. THE WORK SHALL NOT BE INTERRUPTED AFTER THE PLACEMENT OF CONCRETE (OR FLOWABLE FILL) EXCEPT FOR THE TOP LAYER. IF WORK CANNOT BE FINISHED IN A SPECIFIED INTERVAL, WORK MAY BE STOPPED ONLY AFTER A COMPLETE LAYER OF GRADED SOLID ROCK HAS BEEN PLACE.

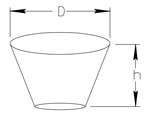
4. AFTER THE FINAL LAYER OF CONCRETE (OR FLOWABLE FILL) HAS BEEN SET, BACKFILL TO GRADE WITH TYPE "A" BASE GRADING (ITEM NO. 303.01) OR OTHER MATERIAL APPROVED BY THE ENGINEER OR GEOLOGIST.

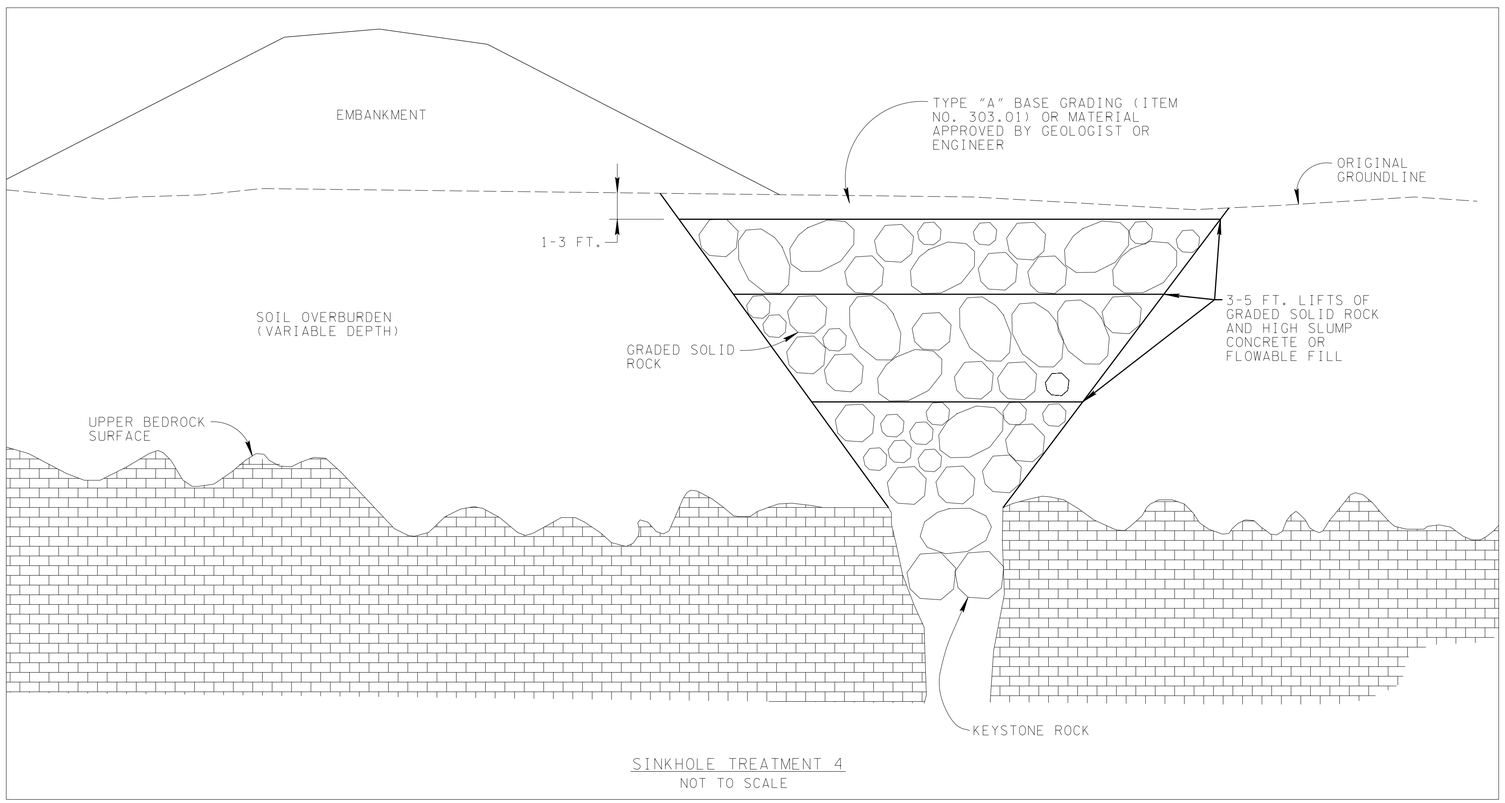
GRADED SOLID ROCK

BORROW EXCAVATION (GRADED SOLID ROCK) SHALL CONSIST OF THE REMOVAL AND SATISFACTORY PLACEMENT OF SOUND, NON-DEGRADABLE ROCK WITH A MAXIMUM SIZE OF 3 FEET. AT LEAST 50 PERCENT OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1 FOOT AND 3 FEET IN DIAMETER AND NO GREATER THAN 10 PERCENT SHALL BE LESS THAN 2 INCHES IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUI-DIMENSIONAL IN SHAPE. THIN, SLABBY MATERIAL WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL SCREENING PROCESS THAT PRODUCES THE REQUIRED GRADATION. WHEN THE MATERIAL IS SUBJECTED TO FIVE ALTERATIONS OF THE SODIUM SULFATE SOUNDNESS TEST (AASHTO T 104), THE WEIGHTED PERCENTAGE OF LOSS SHALL BE NOT MORE THAN 12. THE MATERIAL SHALL BE APPROVED BY THE ENGINEER BEFORE USE.

EQUATION FOR ESTIMATING SINKHOLE VOLUME WHERE THE SIDES OF THE SINKHOLE ARE AT 1:1 SLOPES.

VOL. $1{:}1 \approx 0.13D^3 - (0.5D - h)^3$





SINKHOLE TREATMENT 4
NOT TO SCALE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SINKHOLE TREATMENT

STATE ROUTE 109
ROBERTSON-SUMNER COUNTIES

4/30/2014
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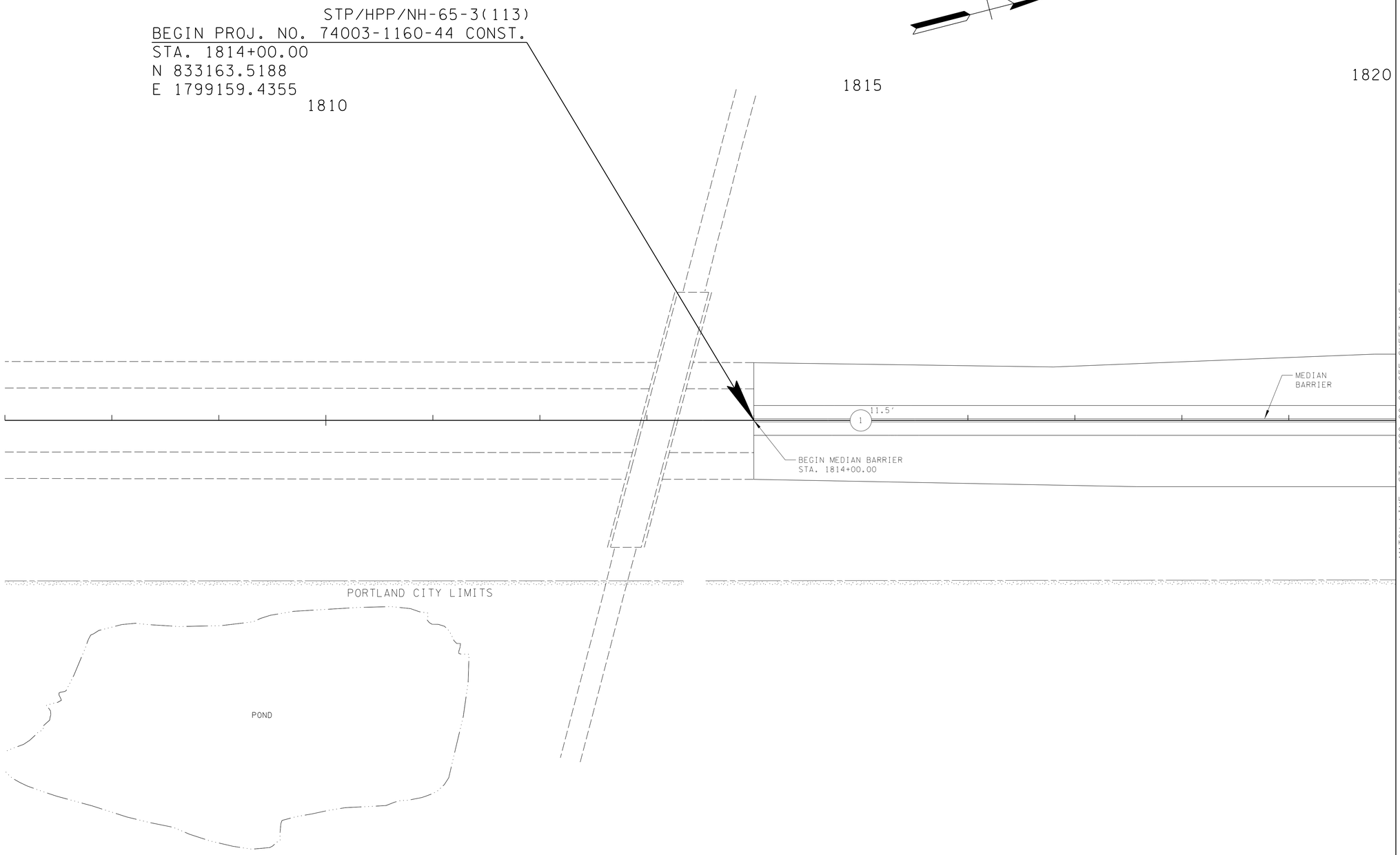
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
1	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-4.5	CL	-	-	108.5	14.5%-21.5%
	4.5-7.0	CL	-	-	108.5	16.5%-21.5%
	7.0-11.5	CH	-	-	101.6	19.2%-26.2%



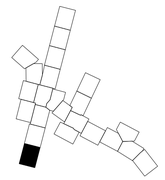
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138D

LEGEND

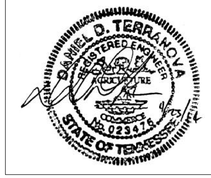
(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
B.O.P. TO STA.1820+00

SCALE: 1"=50'

4/30/2014
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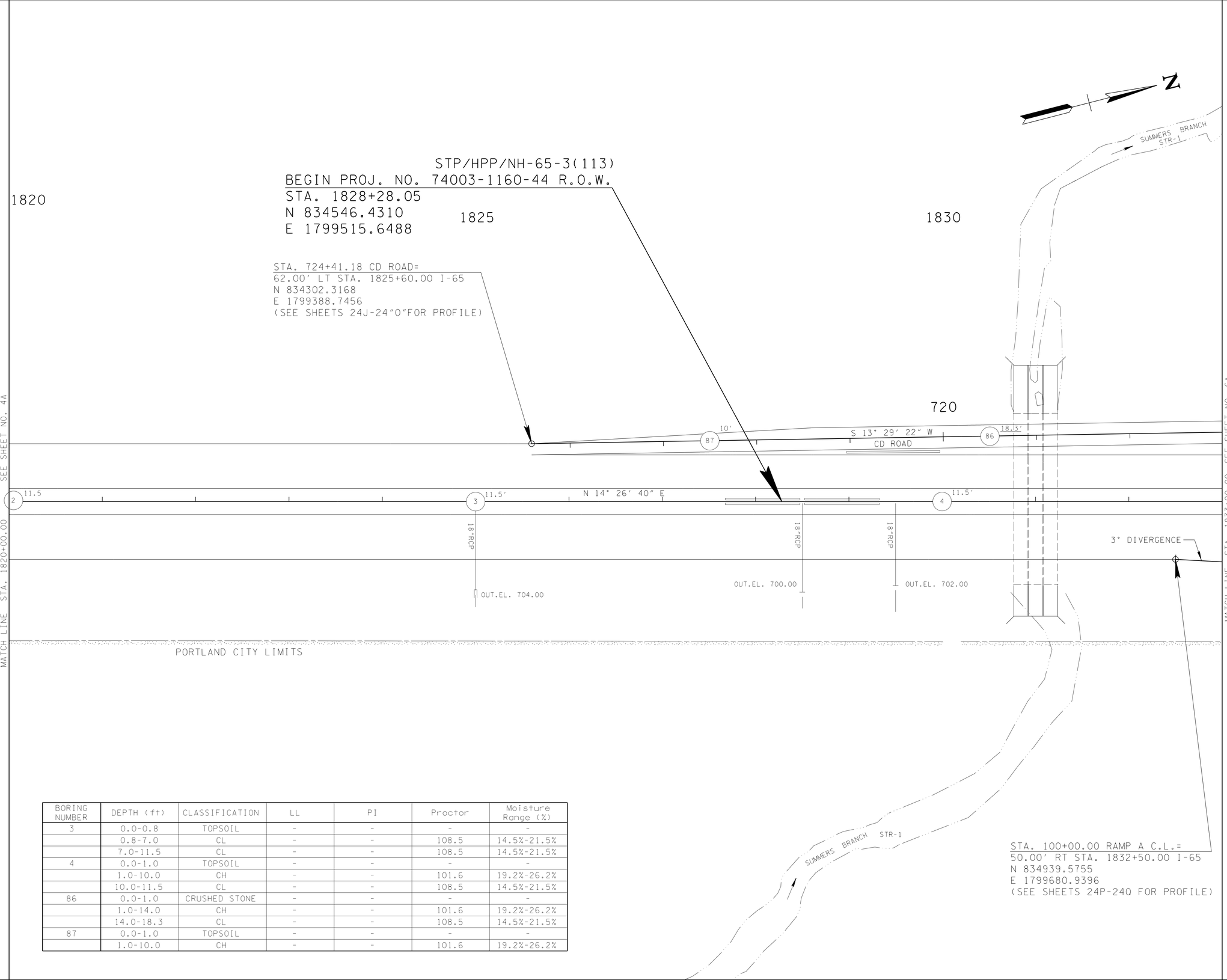
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138E



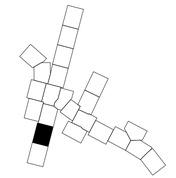
BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
3	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-7.0	CL	-	-	108.5	14.5%-21.5%
	7.0-11.5	CL	-	-	108.5	14.5%-21.5%
4	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%
	10.0-11.5	CL	-	-	108.5	14.5%-21.5%
86	0.0-1.0	CRUSHED STONE	-	-	-	-
	1.0-14.0	CH	-	-	101.6	19.2%-26.2%
	14.0-18.3	CL	-	-	108.5	14.5%-21.5%
87	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1820+00 TO STA.1833+00

SCALE: 1"=50'

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138F

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
5	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-7.0	CH	-	-	101.6	19.2%-26.2%
	7.0-11.5	CL	-	-	108.5	14.5%-21.5%
6	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-11.5	CH	-	-	101.6	19.2%-26.2%
7	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-11.5	CH	-	-	101.6	19.2%-26.2%
19	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-10.0	CH	-	-	101.6	19.2%-26.2%
20	0.0-0.6	TOPSOIL	-	-	-	-
	0.6-15.0	CL	-	-	108.5	14.5%-21.5%
21	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-25.0	CH	53	28	101.6	19.2%-26.2%
22	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-25.0	CH	-	-	101.6	19.2%-26.2%

MATCH LINE - RAMP H
STA. 470+08.18 SEE SHEET NO. 7A

MATCH LINE - RAMP E
STA. 306+54.27

1835

STA. 479+35.34 RAMP H C.L.=
87.28' LT STA. 1833+56.76 I-65
N 835080.1948
E 1799563.0078
(SEE SHEETS 24X-24Z FOR PROFILE)

475

RAMP H

1840

N

305

1845

RAMP E

10' C

10' C

10' C

10' C

10' C

10' C

41 10'

40 10'

710

705

VENT

67 25'

85 10'

S 13° 29' 22" W

CD ROAD

84 8'

83 8'

715

5 11.5'

6 11.5'

7 11.5'

MATCH LINE STA. 1833+00.00 SEE SHEET NO. 5A

MATCH LINE STA. 1846+00.00 SEE SHEET NO. 8A

3° DIVERGENCE N 17° 26' 40" E

19 10'

RAMP A

20 15'

21 25'

22 25'

10' C

GAS LOCATOR BOX 25'

Boring 23

PORTLAND CITY LIMITS

105

50' TEXAS GAS TRANSMISSION EASEMENT

110

24 15'

25 15'

RAMP A
N 38° 00' 03" E

28

26

27 11'

MATCH LINE - RAMP A
STA. 130+50.00
SEE SHEET NO. 19A

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
23	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-25.0	CH	44	27	101.6	19.2%-26.2%
24	0.0-1.2	TOPSOIL	-	-	-	-
	1.2-15.0	CH	-	-	101.6	19.2%-26.2%
25	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-15.0	CH	-	-	101.6	19.2%-26.2%
26	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CL	-	-	108.5	14.5%-21.5%
	8.0-28.0	CH	-	-	101.6	19.2%-26.2%
27	0.0-1.5	TOPSOIL	-	-	-	-
	1.5-11.0	CH	-	-	101.6	19.2%-26.2%
40	0.0-0.5	ASPHALT/ CRUSHEDSTONE	-	-	-	-
	0.5-10.0	CL	-	-	108.5	14.5%-21.5%
41	0.0-6.0	CL	-	-	108.5	14.5%-21.5%
	6.0-10.0	CH	-	-	101.6	19.2%-26.2%
67	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-10.0	CL	-	-	108.5	14.5%-21.5%
	10.0-15.6	CL	-	-	108.5	14.5%-21.5%
	15.6-25.0	CH	-	-	101.6	19.2%-26.2%

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
83	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CH	-	-	101.6	19.2%-26.2%
84	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CH	-	-	101.6	19.2%-26.2%
85	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-10.0	CL	-	-	108.5	14.5%-21.5%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1

● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023416
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA. 1833+00 TO STA. 1846+00

SCALE: 1"=50'

4/30/2014
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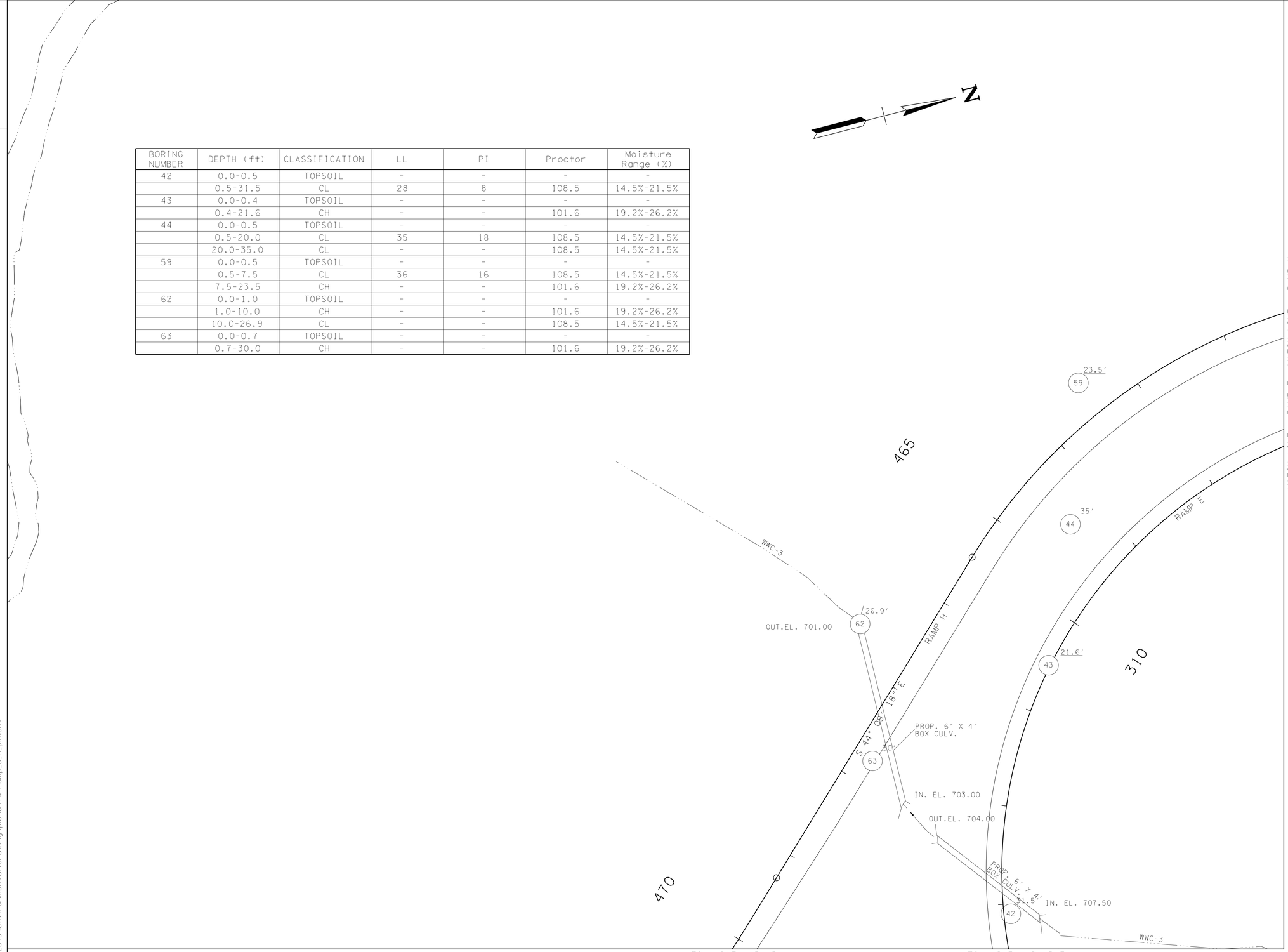
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138G

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
42	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-31.5	CL	28	8	108.5	14.5%-21.5%
43	0.0-0.4	TOPSOIL	-	-	-	-
	0.4-21.6	CH	-	-	101.6	19.2%-26.2%
44	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-20.0	CL	35	18	108.5	14.5%-21.5%
	20.0-35.0	CL	-	-	108.5	14.5%-21.5%
59	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-7.5	CL	36	16	108.5	14.5%-21.5%
	7.5-23.5	CH	-	-	101.6	19.2%-26.2%
62	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%
	10.0-26.9	CL	-	-	108.5	14.5%-21.5%
63	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-30.0	CH	-	-	101.6	19.2%-26.2%



LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAKOVA
REGISTERED ENGINEER
No. 023415
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

RAMPS E & H

SCALE: 1"=50'

4/30/2014
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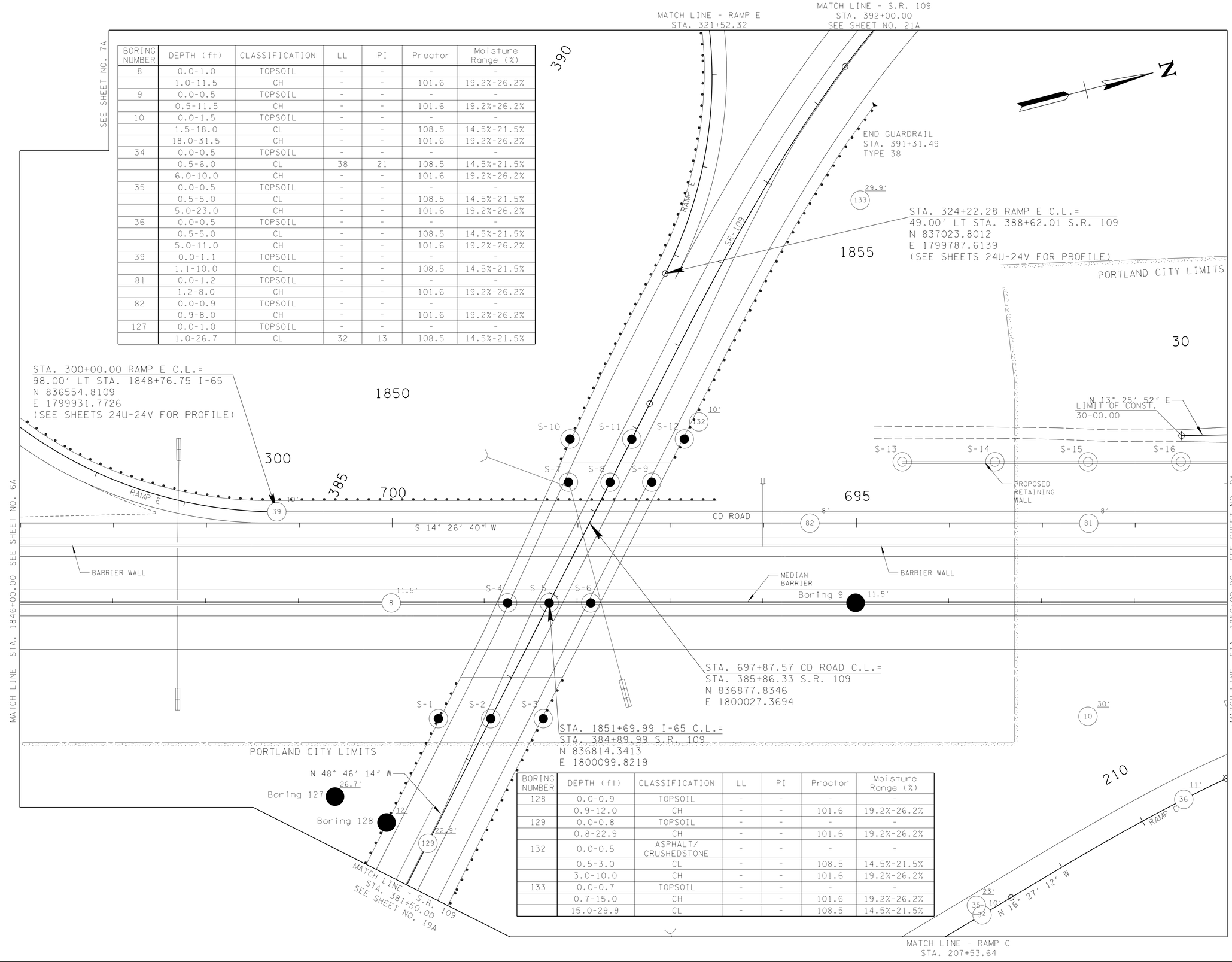
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138H



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
8	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-11.5	CH	-	-	101.6	19.2%-26.2%
9	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-11.5	CH	-	-	101.6	19.2%-26.2%
10	0.0-1.5	TOPSOIL	-	-	-	-
	1.5-18.0	CL	-	-	108.5	14.5%-21.5%
	18.0-31.5	CH	-	-	101.6	19.2%-26.2%
34	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-6.0	CL	38	21	108.5	14.5%-21.5%
	6.0-10.0	CH	-	-	101.6	19.2%-26.2%
35	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-23.0	CH	-	-	101.6	19.2%-26.2%
36	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-11.0	CH	-	-	101.6	19.2%-26.2%
39	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-10.0	CL	-	-	108.5	14.5%-21.5%
81	0.0-1.2	TOPSOIL	-	-	-	-
	1.2-8.0	CH	-	-	101.6	19.2%-26.2%
82	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-8.0	CH	-	-	101.6	19.2%-26.2%
127	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-26.7	CL	32	13	108.5	14.5%-21.5%

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
128	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-12.0	CH	-	-	101.6	19.2%-26.2%
129	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-22.9	CH	-	-	101.6	19.2%-26.2%
132	0.0-0.5	ASPHALT/ CRUSHEDSTONE	-	-	-	-
	0.5-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-10.0	CH	-	-	101.6	19.2%-26.2%
133	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-15.0	CH	-	-	101.6	19.2%-26.2%
	15.0-29.9	CL	-	-	108.5	14.5%-21.5%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

◎ Soil Sample Boring at Proposed Retaining Wall Location

◉ Soil Sample Boring with Rock Core at Proposed Bridge Alignment

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1846+00 TO STA.1859+00

SCALE: 1"=50'

4/30/2014
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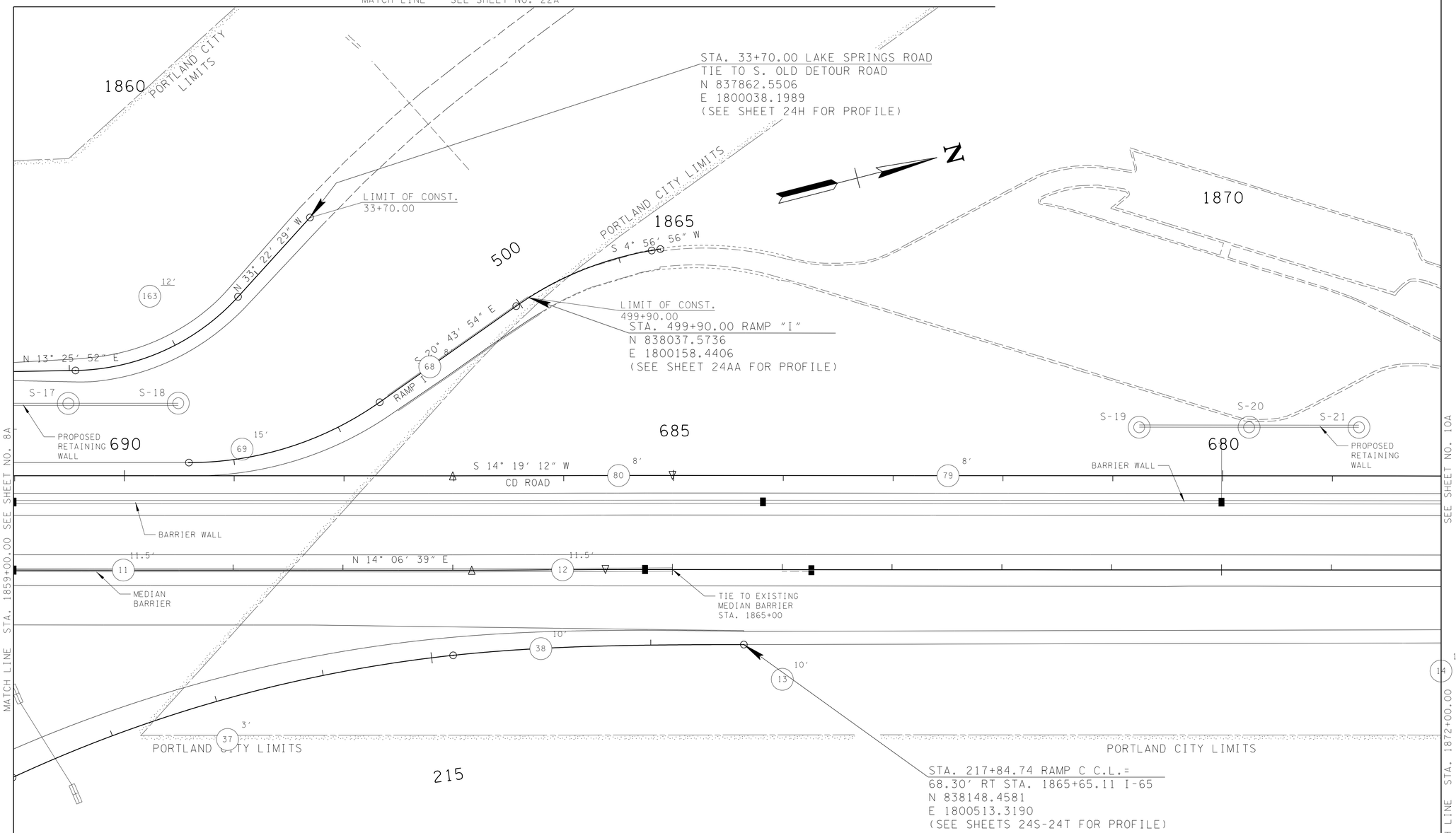
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	1381



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
11	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-11.5	CH	-	-	101.6	19.2%-26.2%
12	0.0-1.5	ASPHALT	-	-	-	-
	1.5-2.5	CRUSHED STONE	-	-	-	-
	2.5-4.0	CL	-	-	108.5	14.5%-21.5%
	4.0-11.5	CH	-	-	101.6	19.2%-26.2%
13	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-10.0	CL	-	-	108.5	14.5%-21.5%
14	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%
37	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-3.0	CH	-	-	101.6	19.2%-26.2%
38	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
68	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-8.0	CH	-	-	101.6	19.2%-26.2%
69	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-15.0	CH	68	47	101.6	19.2%-26.2%
79	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-6.5	CL	-	-	108.5	14.5%-21.5%
	6.5-8.0	CL	-	-	108.5	14.5%-21.5%
80	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-8.0	CL	-	-	108.5	14.5%-21.5%
163	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-12.0	CH	-	-	101.6	19.2%-26.2%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

◎ Soil Sample Boring at Proposed Retaining Wall Location

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAKOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1859+00 TO STA.1872+00

SCALE: 1"=50'

4/30/2014
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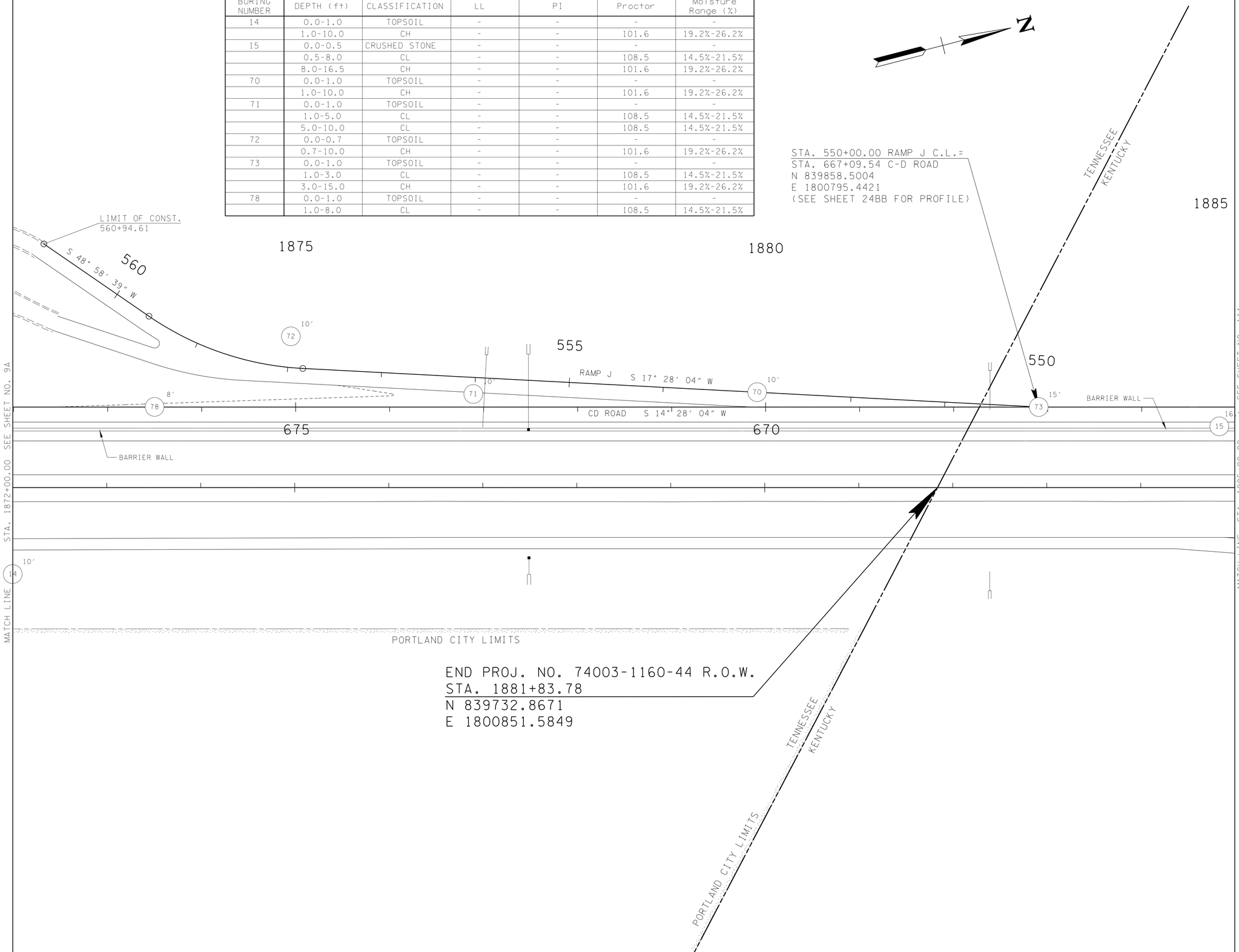
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
14	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%
15	0.0-0.5	CRUSHED STONE	-	-	-	-
	0.5-8.0	CL	-	-	108.5	14.5%-21.5%
	8.0-16.5	CH	-	-	101.6	19.2%-26.2%
70	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%
71	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-10.0	CL	-	-	108.5	14.5%-21.5%
72	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-10.0	CH	-	-	101.6	19.2%-26.2%
73	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-15.0	CH	-	-	101.6	19.2%-26.2%
78	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CL	-	-	108.5	14.5%-21.5%



TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138J

LEGEND

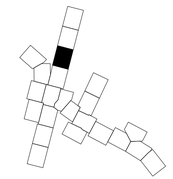
(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1

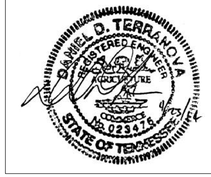
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET

NOT FOR BIDDING



SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1872+00 TO STA.1885+00

SCALE: 1"=50'

4/30/2014
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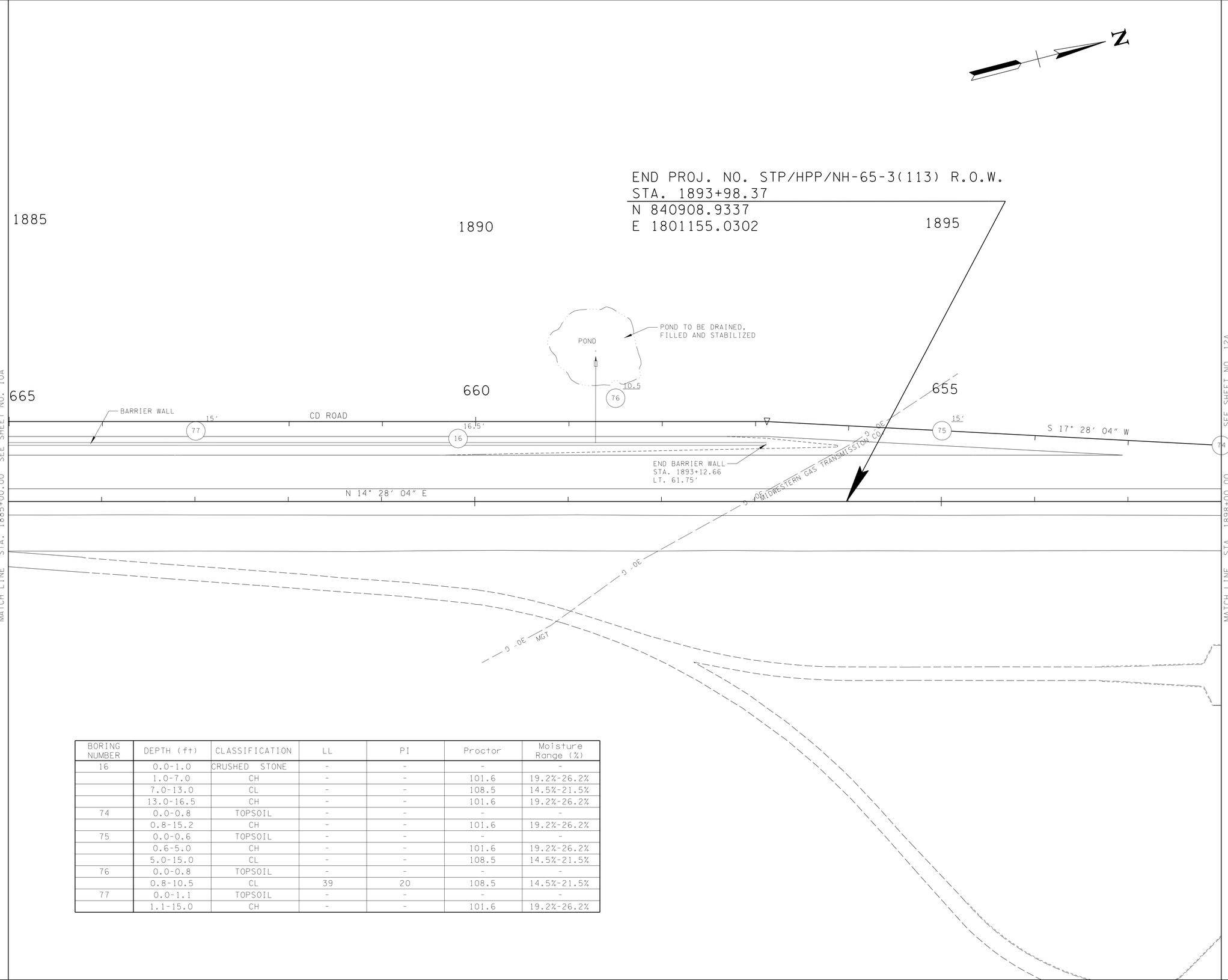
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138K



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
16	0.0-1.0	CRUSHED STONE	-	-	-	-
	1.0-7.0	CH	-	-	101.6	19.2%-26.2%
	7.0-13.0	CL	-	-	108.5	14.5%-21.5%
	13.0-16.5	CH	-	-	101.6	19.2%-26.2%
74	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-15.2	CH	-	-	101.6	19.2%-26.2%
75	0.0-0.6	TOPSOIL	-	-	-	-
	0.6-5.0	CH	-	-	101.6	19.2%-26.2%
	5.0-15.0	CL	-	-	108.5	14.5%-21.5%
76	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-10.5	CL	39	20	108.5	14.5%-21.5%
77	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-15.0	CH	-	-	101.6	19.2%-26.2%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA.1885+00 TO STA.1898+00

SCALE: 1"=50'

4/30/2014
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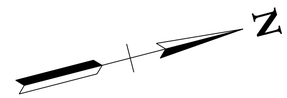
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138L

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
17	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-7.0	CL	-	-	108.5	14.5%-21.5%
	7.0-13.5	CH	-	-	101.6	19.2%-26.2%
18	0.0-1.0	TOPSOIL /GRAVEL	-	-	-	-
	1.0-16.5	CH	-	-	101.6	19.2%-26.2%
74	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-15.2	CH	-	-	101.6	19.2%-26.2%



1900 1905 1910

STA. 650+00.00 C D ROAD =
49.35' LT STA. 1900+00.00 I-65
N 841503.8166
E 1801257.5539
(SEE SHEETS 24J-24"O" FOR PROFILE)

STP/HPP/NH-65-3(113)
END PROJ. NO. 74003-1160-44 CONST.
STA. 1905+00.00
N 841975.6315
E 1801430.2564

650

15.2' 74 CD ROAD
13.5' 17
16.5' 18

SEE SHEET NO. 11A

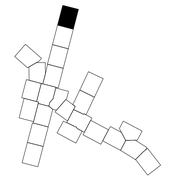
MATCH LINE STA. 1898+00.00

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING



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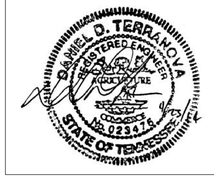

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

I-65
STA. 1898+00 TO E.O.P.

SCALE: 1"=50'

4/30/2014
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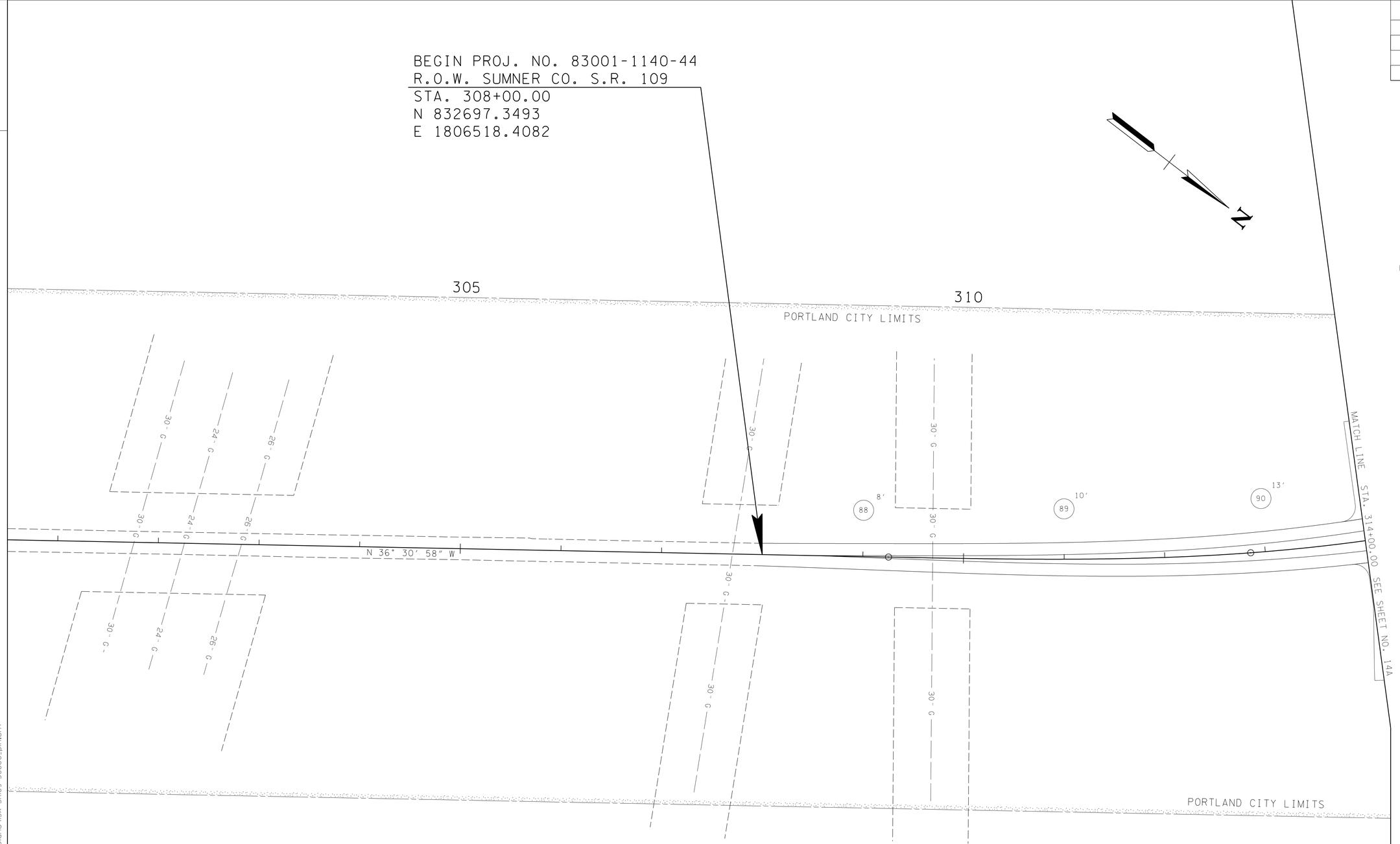
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138M

BEGIN PROJ. NO. 83001-1140-44
R.O.W. SUMNER CO. S.R. 109
STA. 308+00.00
N 832697.3493
E 1806518.4082



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
88	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-8.0	CH	-	-	95.2	22.75%-31%
89	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	95.2	22.75%-31%
90	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-13.0	CH	-	-	95.2	22.75%-31%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

SAMUEL D. TERRALKOVA
REGISTERED ENGINEER
NASHVILLE
TENNESSEE
No. 023476
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
B.O.P. TO STA.314+00

SCALE: 1"=50'

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
91	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-16.0	CH	-	-	95.2	22.75%-31%
92	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-16.0	CH	-	-	95.2	22.75%-31%
93	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-25.0	CH	41	21	95.2	22.75%-31%
94	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-25.0	CH	-	-	95.2	22.75%-31%
95	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-23.0	CH	-	-	95.2	22.75%-31%
96	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-17.0	CH	-	-	95.2	22.75%-31%
97	0.0-1.2	TOPSOIL	-	-	-	-
	1.2-16.0	CH	-	-	95.2	22.75%-31%
98	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-15.0	CH	-	-	95.2	22.75%-31%
99	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-20.0	CH	65	46	95.2	22.75%-31%

315

320

325

STA. 322+52.72 S.R. 109 C.L. =
STA. 85+00.00 OLD S.R. 109 TIE
N 833632.8824
E 1805434.3376
(SEE SHEET 24 FOR PROFILE)

PORTLAND CITY LIMITS

MATCH LINE STA. 314+00.00 SEE SHEET NO. 13A

MATCH LINE STA. 327+00.00 SEE SHEET NO. 18A

Boring 93 25'

Boring 94 25'

91 16'

92 16'

95 23'

96 17'

97 16'

98 15'

99 20'

100 20'

101 19'

102 19'

103 18'

104 12'

105 10'

146 13'

147 10'

N 62° 04' 51" W

MATCH LINE S.R. 109 TIE STA. 89+00.00 SEE SHEET NO. 14D

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
100	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-20.0	CH	-	-	95.2	22.75%-31%
101	0.0-0.6	TOPSOIL	-	-	-	-
	0.6-15.0	CH	-	-	95.2	22.75%-31%
	15.0-19.0	CL	-	-	108.5	14.5%-21.5%
102	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-19.0	CH	-	-	95.2	22.75%-31%
103	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-18.0	CH	-	-	95.2	22.75%-31%
104	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-12.0	CH	-	-	95.2	22.75%-31%
105	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-10.0	CH	-	-	95.2	22.75%-31%
146	0.0-0.1	TOPSOIL	-	-	-	-
	0.1-13.0	CL	-	-	108.5	14.5%-21.5%
147	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-10.0	CL	-	-	108.5	14.5%-21.5%

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138N

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAKOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.314+00 TO STA.327+00

SCALE: 1"=50'

4/30/2014
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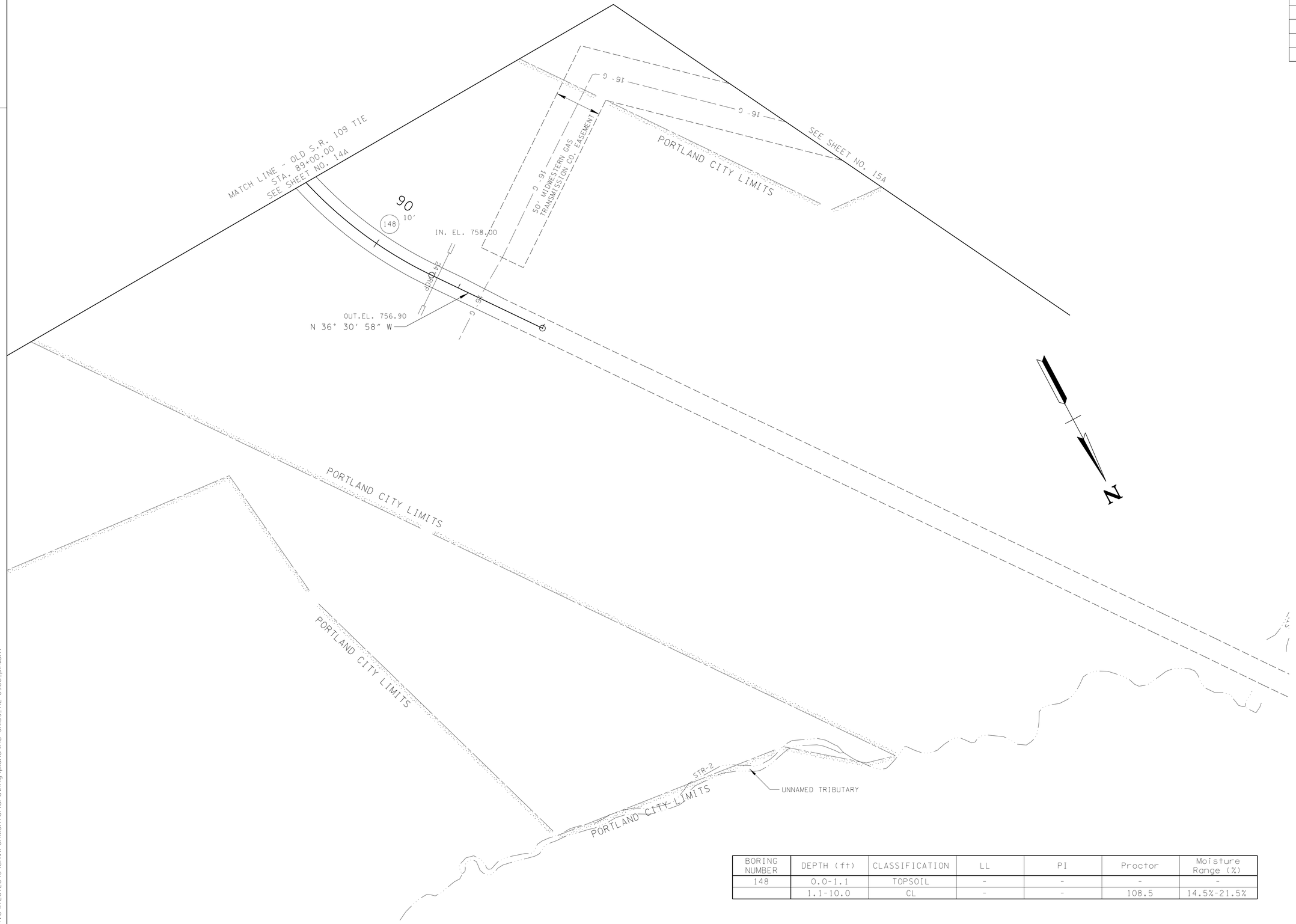
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	1380



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
148	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-10.0	CL	-	-	108.5	14.5%-21.5%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
COLORADO
No. 0234176
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109 TIE
STA.89+00 TO STA. 91+50

SCALE: 1"=50'

4/30/2014
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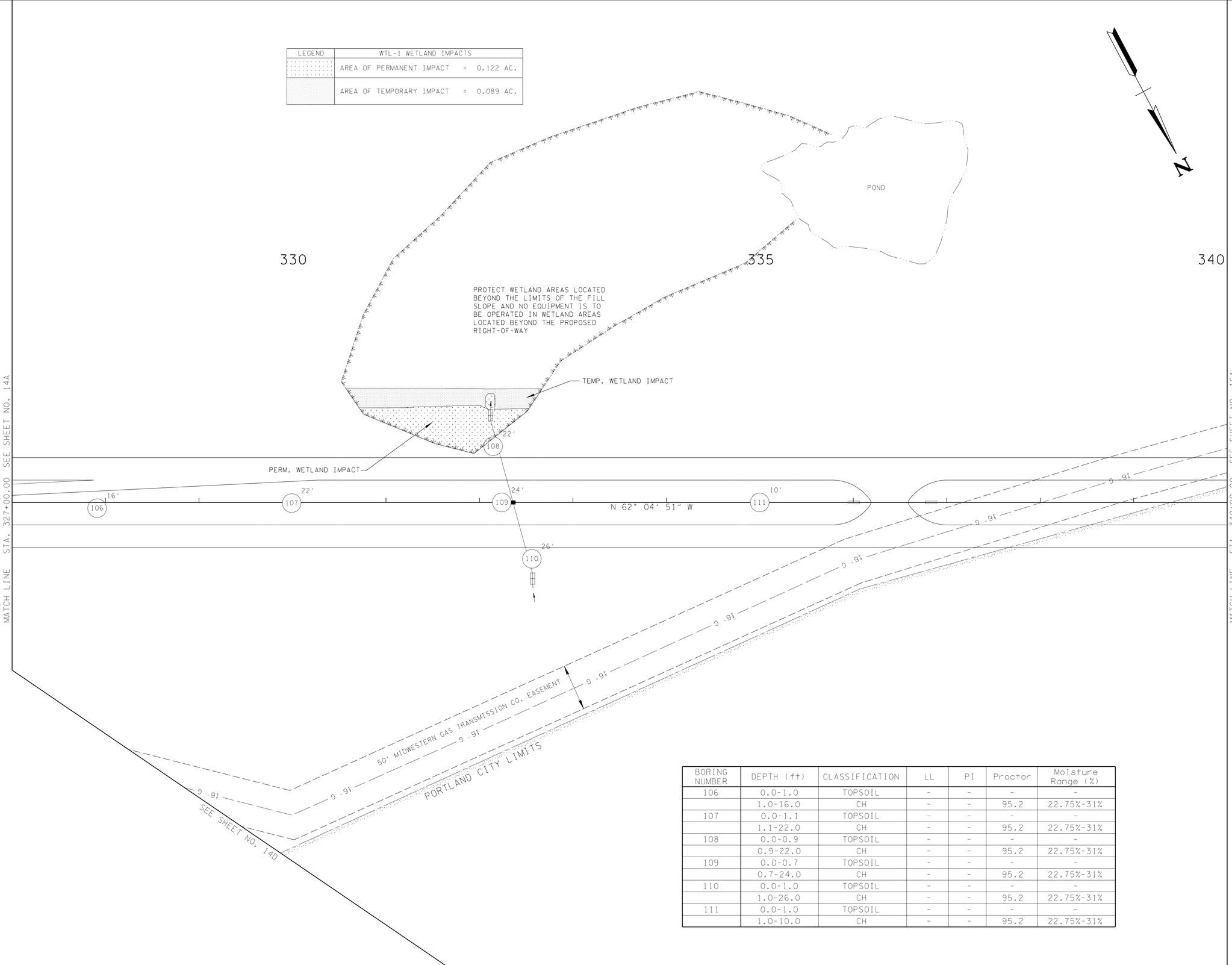
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138P

LEGEND	WTL-1 WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.122 AC.
	AREA OF TEMPORARY IMPACT = 0.089 AC.



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
106	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-16.0	CH	-	-	95.2	22.75%-31%
107	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-22.0	CH	-	-	95.2	22.75%-31%
108	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-22.0	CH	-	-	95.2	22.75%-31%
109	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-24.0	CH	-	-	95.2	22.75%-31%
110	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-26.0	CH	-	-	95.2	22.75%-31%
111	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-10.0	CH	-	-	95.2	22.75%-31%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1

● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023416
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.327+00 TO STA.340+00

SCALE: 1"=50'

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138Q

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
112	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-20.0	CH	-	-	95.2	22.75%-31%
113	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-10.0	CL	-	-	108.5	14.5%-21.5%
	10.0-18.0	CH	-	-	95.2	22.75%-31%
114	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-6.0	CL	-	-	108.5	14.5%-21.5%
	6.0-25.6	CH	-	-	95.2	22.75%-31%
115	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-5.0	CL	-	-	108.5	14.5%-21.5%
	5.0-35.0	CH	-	-	95.2	22.75%-31%
116	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CL	-	-	108.5	14.5%-21.5%
	8.0-27.3	CH	-	-	95.2	22.75%-31%
117	0.0-1.2	TOPSOIL	-	-	-	-
	1.2-8.0	CL	34	15	108.5	14.5%-21.5%
	8.0-20.0	CH	-	-	95.2	22.75%-31%
149	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-8.0	CL	-	-	108.5	14.5%-21.5%
150	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-13.0	CH	-	-	95.2	22.75%-31%

N

PORTLAND CITY LIMITS

N 40° 06' 11" W

N 38° 02' 31" W

N 39° 23' 17" W

STA. 53+88.89 TGT ROAD C.L. =
STA. 10+00.00 TGT TIE ROAD
N 834483.0455
E 1802629.6767
(SEE SHEETS 24B-24C FOR PROFILE)

55

N 51° 57' 29" E
8'
149

MATCH LINE - TGT ROAD
STA. 55+74.35

340

345

350

MIDWESTERN GAS TRANSMISSION CO. EASEMENT
100'
50'
16'
9'

PORTLAND CITY LIMITS

9 @ 30'E

N 27° 55' 09" E
27.3'
Boring 116

16' x 10' RCBC

150
13'

15

112
20'

113
18'

N 62° 04' 51" W

Boring 114
25.6'

117
20'

115
35'

PORTLAND CITY LIMITS

STA. 350+25.00 S.R. 109 C.L. =
STA. 15+79.66 TGT TIE ROAD
N 834778.7606
E 1803271.9061
(SEE SHEET 24A FOR PROFILE)

MATCH LINE STA. 340+00.00 SEE SHEET NO. 15A

MATCH LINE STA. 353+00.00 SEE SHEET NO. 17A

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
COLLEGE
No. 023476
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.340+00 TO STA.353+00

SCALE: 1"=50'

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138R

MATCH LINE STA. 1126+50.00 SEE SHEET NO. 17E

PORTLAND CITY LIMITS

MATCH LINE – TGT ROAD STA. 55+74.35

N 39° 23' 17" W

N 40° 20' 57" W

N 35° 37' 20" W

PORTLAND CITY LIMITS

PORTLAND CITY LIMITS

N 25° 19' 17" E

N 25° 19' 17" E

N 62° 04' 51" W

60

360

355

65

1130

365

1135

BEAM

N

12'
152

10'
153

18'
118

15'
119

15'
120

MATCH LINE STA. 353+00.00 SEE SHEET NO. 16A

MATCH LINE STA. 366+00.00 SEE SHEET NO. 18A

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
118	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-10.0	CL	-	-	108.5	14.5%-21.5%
	10.0-18.0	CH	-	-	101.6	19.2%-26.2%
119	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CL	-	-	108.5	14.5%-21.5%
	8.0-15.0	CH	-	-	101.6	19.2%-26.2%
120	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-10.0	CL	-	-	108.5	14.5%-21.5%
	10.0-15.0	CH	-	-	101.6	19.2%-26.2%
152	0.0-1.5	TOPSOIL	-	-	-	-
	1.5-12.0	CL	-	-	108.5	14.5%-21.5%
153	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-10.0	CL	-	-	108.5	14.5%-21.5%

STA. 65+90.80 TGT ROAD C.L. =
STA. 1131+28.16 S.R. 41 LT.
N 835419.5705
E 1801877.2815

STA. 362+36.28 S.R. 109 C.L. =
STA. 1132+15.02 S.R. 41 LT & RT
N 835498.0891
E 1801914.4331
(SEE SHEETS 24D-24F FOR PROFILE)

END PROJ. NO. 83001-1140-44 SUMNER CO.
BEGIN PROJ. NO. 74003-1160-44 ROBERTSON CO.

POND

POND

MATCH LINE STA. 1136+00.00 SEE SHEET NO. 17H

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023416
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.353+00 TO STA.366+00

SCALE: 1"=50'

4/30/2014
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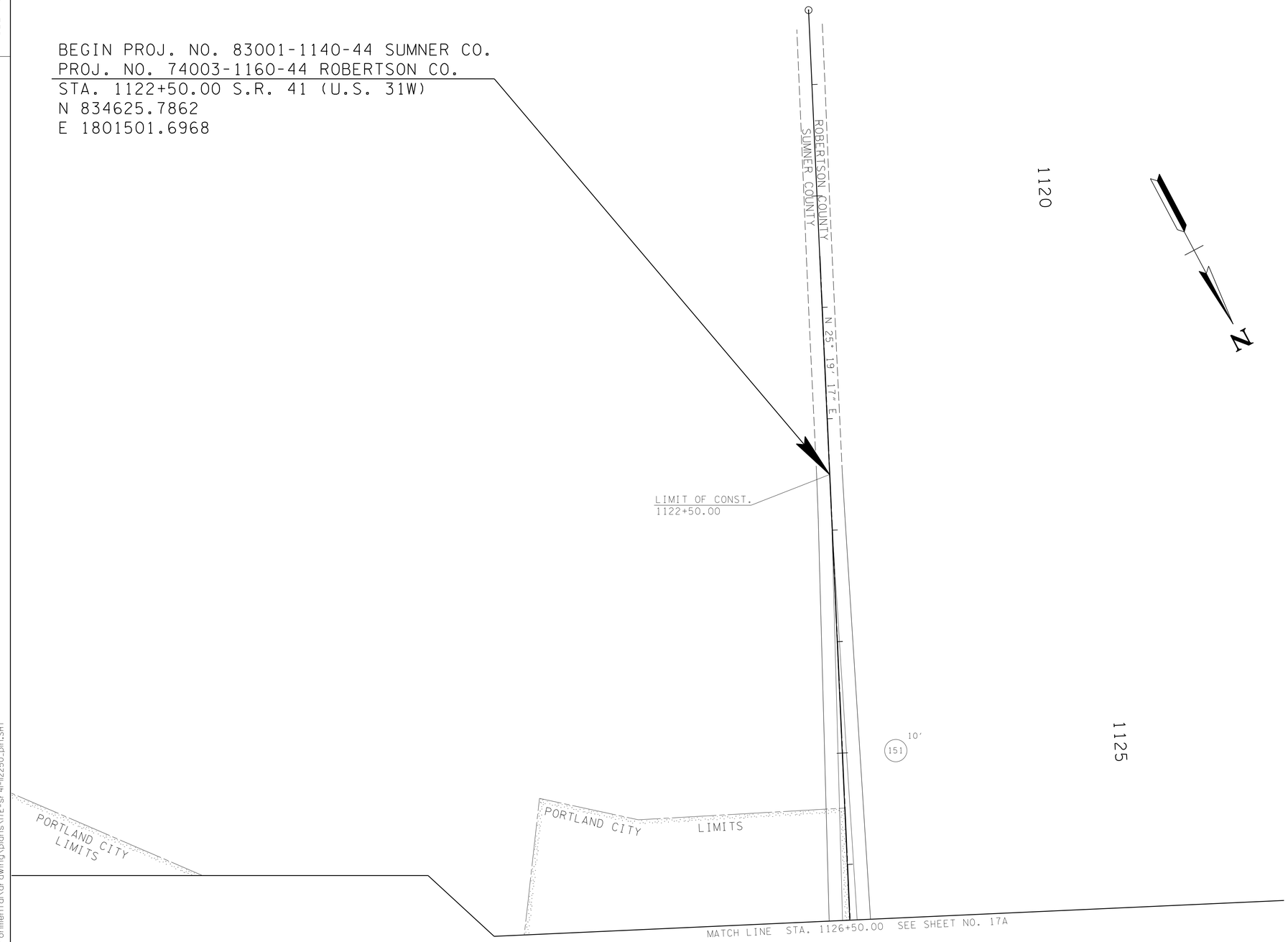
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138S

BEGIN PROJ. NO. 83001-1140-44 SUMNER CO.
PROJ. NO. 74003-1160-44 ROBERTSON CO.
STA. 1122+50.00 S.R. 41 (U.S. 31W)
N 834625.7862
E 1801501.6968



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
151	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-10.0	CL	-	-	108.5	14.5%-21.5%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023416
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 41
B.O.P. TO STA.1126+50

SCALE: 1"=50'

4/30/2014
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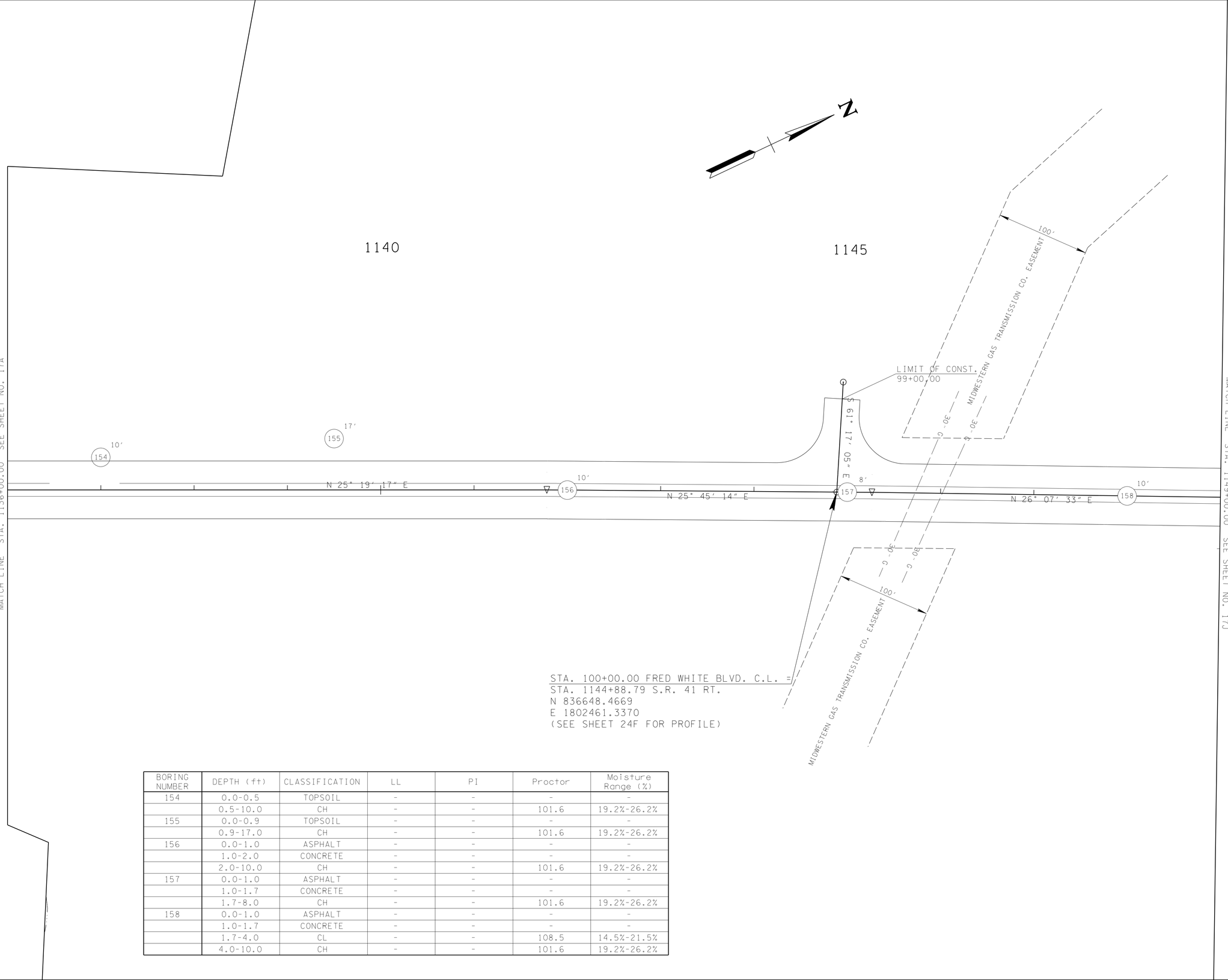
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138T



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
154	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-10.0	CH	-	-	101.6	19.2%-26.2%
155	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-17.0	CH	-	-	101.6	19.2%-26.2%
156	0.0-1.0	ASPHALT	-	-	-	-
	1.0-2.0	CONCRETE	-	-	-	-
	2.0-10.0	CH	-	-	101.6	19.2%-26.2%
157	0.0-1.0	ASPHALT	-	-	-	-
	1.0-1.7	CONCRETE	-	-	-	-
	1.7-8.0	CH	-	-	101.6	19.2%-26.2%
158	0.0-1.0	ASPHALT	-	-	-	-
	1.0-1.7	CONCRETE	-	-	-	-
	1.7-4.0	CL	-	-	108.5	14.5%-21.5%
	4.0-10.0	CH	-	-	101.6	19.2%-26.2%

LEGEND

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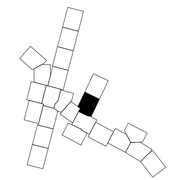
Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING



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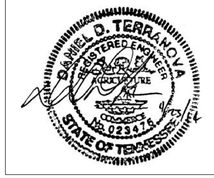

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 41
STA.1136+00 TO STA.1149+00

SCALE: 1"=50'

5/1/2014
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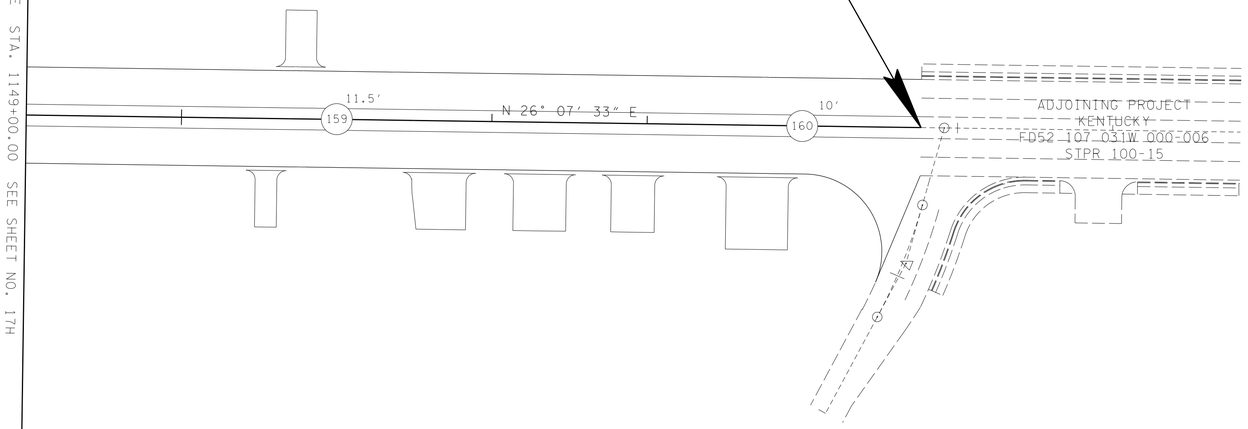
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138U

1150

END PROJ. NO. 83001-1140-44 SUMNER CO.
PROJ. NO. 74003-1160-44 ROBERTSON CO.
STA. 1154+76.47
N 837535.3379
E 1802896.0340



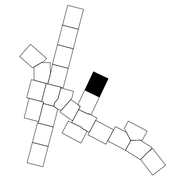
BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
159	0.0-1.0	ASPHALT	-	-	-	-
	1.0-1.8	CONCRETE	-	-	-	-
	1.8-7.0	CL	-	-	108.5	14.5%-21.5%
	7.0-11.5	CH	-	-	101.6	19.2%-26.2%
160	0.0-1.0	ASPHALT	-	-	-	-
	1.0-1.7	CONCRETE	-	-	-	-
	1.7-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-10.0	CH	-	-	101.6	19.2%-26.2%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING



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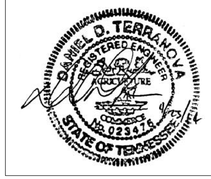

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 41
STA.1149+00 TO E.O.P.

SCALE: 1"=50'

4/30/2014
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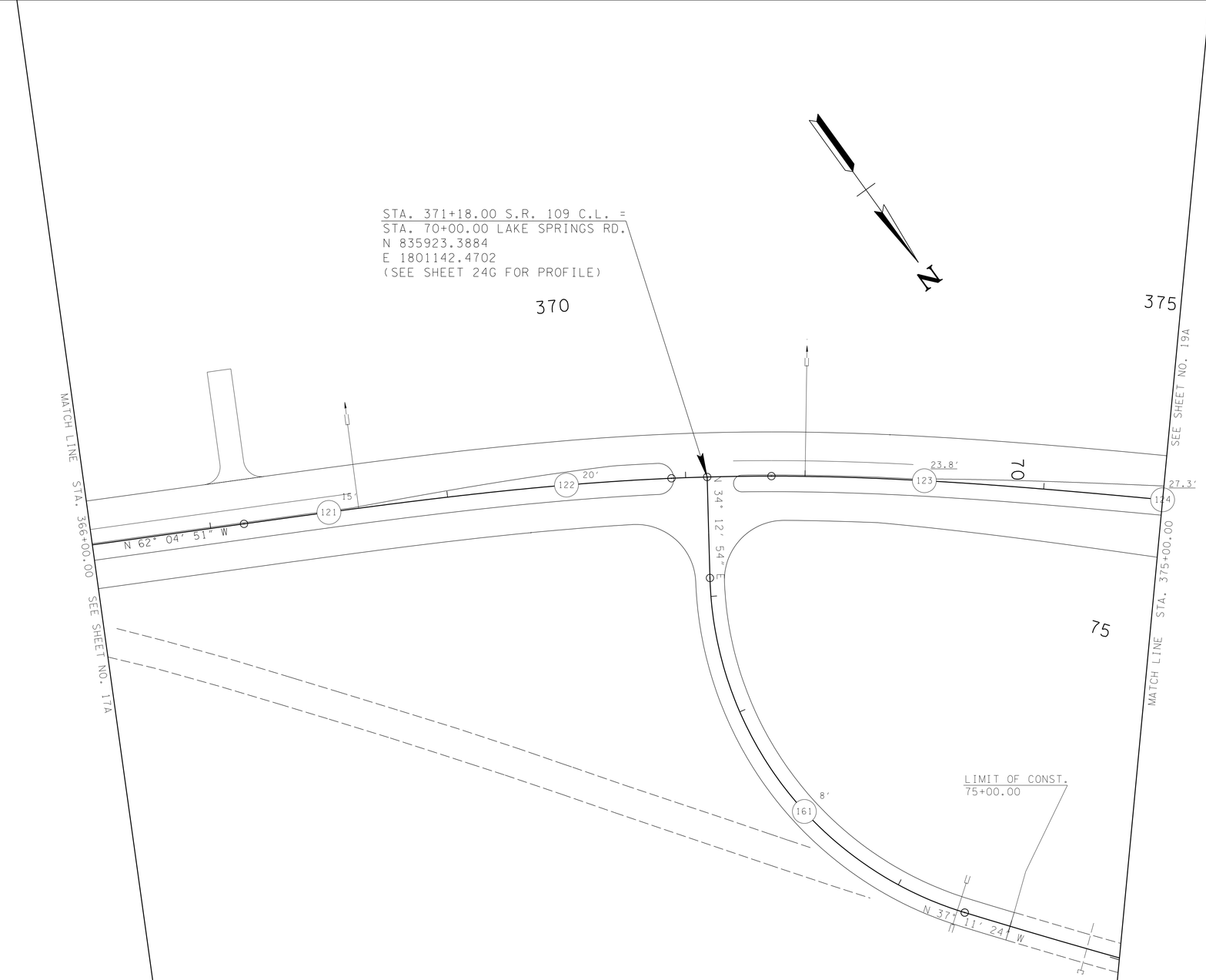
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138V



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
121	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-15.0	CL	-	-	108.5	14.5%-21.5%
122	0.0-0.6	TOPSOIL	-	-	-	-
	0.6-8.0	CL	-	-	108.5	14.5%-21.5%
	8.0-20.0	CH	-	-	101.6	19.2%-26.2%
123	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-5.5	CL	-	-	108.5	14.5%-21.5%
	5.5-17.0	CH	-	-	101.6	19.2%-26.2%
	17.0-23.8	CL	-	-	108.5	14.5%-21.5%
124	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-6.0	CL	-	-	108.5	14.5%-21.5%
	6.0-27.3	CH	-	-	101.6	19.2%-26.2%
161	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-8.0	CL	-	-	108.5	14.5%-21.5%

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.366+00 TO STA.375+00

SCALE: 1"=50'

4/30/2014
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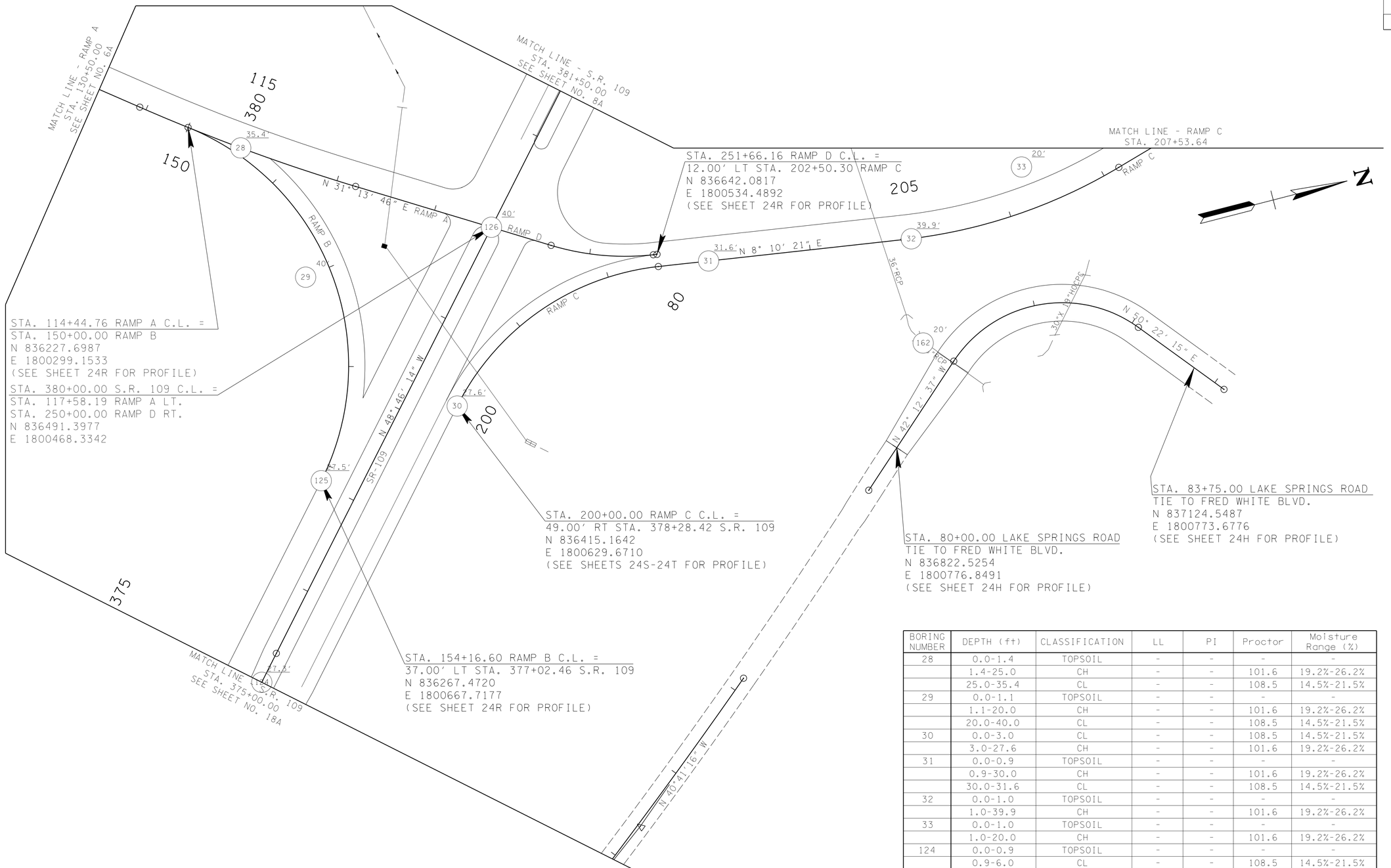
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138W



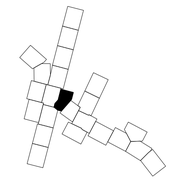
LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
28	0.0-1.4	TOPSOIL	-	-	-	-
	1.4-25.0	CH	-	-	101.6	19.2%-26.2%
	25.0-35.4	CL	-	-	108.5	14.5%-21.5%
29	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-20.0	CH	-	-	101.6	19.2%-26.2%
	20.0-40.0	CL	-	-	108.5	14.5%-21.5%
30	0.0-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-27.6	CH	-	-	101.6	19.2%-26.2%
31	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-30.0	CH	-	-	101.6	19.2%-26.2%
	30.0-31.6	CL	-	-	108.5	14.5%-21.5%
32	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-39.9	CH	-	-	101.6	19.2%-26.2%
33	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-20.0	CH	-	-	101.6	19.2%-26.2%
124	0.0-0.9	TOPSOIL	-	-	-	-
	0.9-6.0	CL	-	-	108.5	14.5%-21.5%
	6.0-27.3	CH	-	-	101.6	19.2%-26.2%
125	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-27.5	CH	-	-	101.6	19.2%-26.2%
126	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-30.0	CH	-	-	101.6	19.2%-26.2%
	30.0-40.0	CL	-	-	108.5	14.5%-21.5%
162	0.0-1.1	TOPSOIL	-	-	-	-
	1.1-20.0	CL	-	-	108.5	14.5%-21.5%



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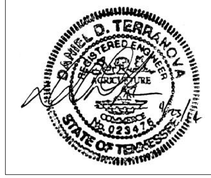

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.375+00 TO STA.381+50

SCALE: 1"=50'

4/30/2014
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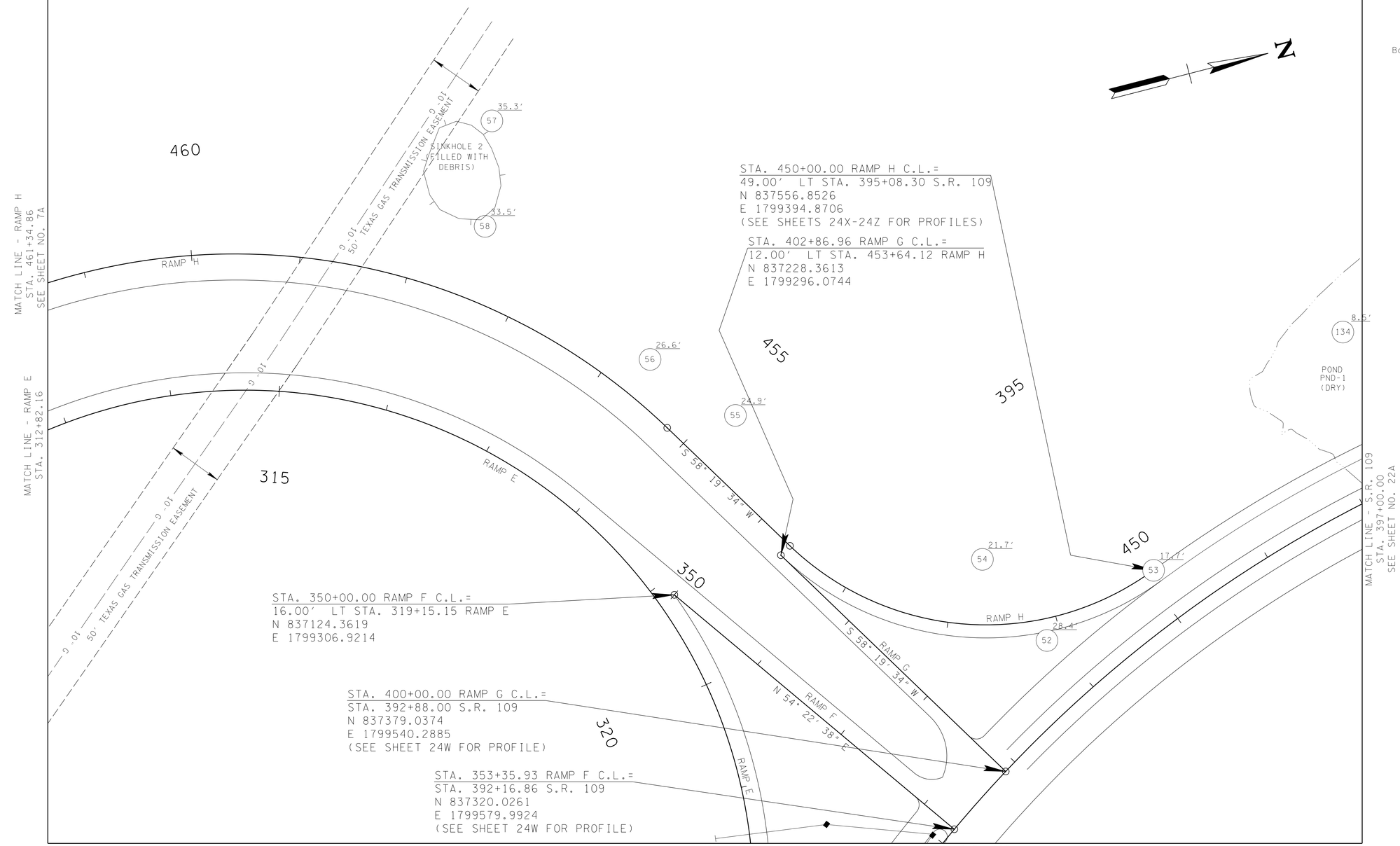
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
52	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-24.0	CH	-	-	101.6	19.2%-26.2%
	24.0-28.4	CL	-	-	108.5	14.5%-21.5%
53	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-17.7	CH	-	-	101.6	19.2%-26.2%
54	0.0-4.0	CL	-	-	108.5	14.5%-21.5%
	4.0-19.0	CH	-	-	101.6	19.2%-26.2%
	19.0-21.7	CL	-	-	108.5	14.5%-21.5%
55	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-3.0	CL	-	-	108.5	14.5%-21.5%
	3.0-24.9	CH	-	-	101.6	19.2%-26.2%

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
56	0.0-0.6	TOPSOIL	-	-	-	-
	0.6-18.0	CL	-	-	108.5	14.5%-21.5%
	18.0-26.6	CH	-	-	101.6	19.2%-26.2%
57	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-35.3	CH	-	-	101.6	19.2%-26.2%
58	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-17.0	CH	-	-	101.6	19.2%-26.2%
	17.0-33.5	CH	-	-	101.6	19.2%-26.2%
134	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-8.5	CH	-	-	101.6	19.2%-26.2%



TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138X

LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL O. TERRAZAS
REGISTERED ENGINEER
AGENCY
No. 023475
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.392+00 TO STA.397+00
RAMPS E, F, G, & H
SCALE: 1"=50'

4/30/2014
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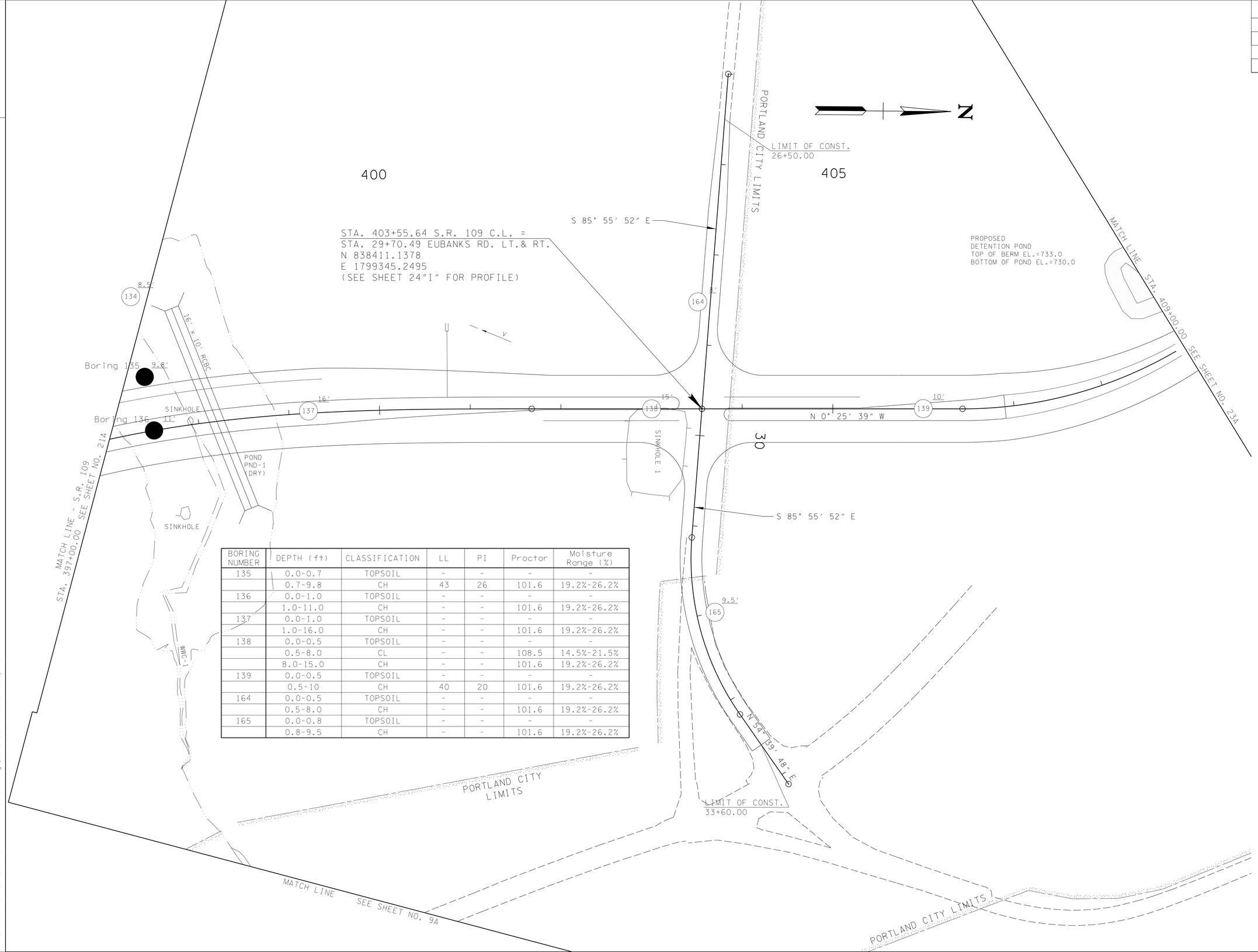
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138Y



BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
135	0.0-0.7	TOPSOIL	-	-	-	-
	0.7-9.8	CH	43	26	101.6	19.2%-26.2%
136	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-11.0	CH	-	-	101.6	19.2%-26.2%
137	0.0-1.0	TOPSOIL	-	-	-	-
	1.0-16.0	CH	-	-	101.6	19.2%-26.2%
138	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-8.0	CL	-	-	108.5	14.5%-21.5%
	8.0-15.0	CH	-	-	101.6	19.2%-26.2%
139	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-10	CH	40	20	101.6	19.2%-26.2%
164	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-8.0	CH	-	-	101.6	19.2%-26.2%
165	0.0-0.8	TOPSOIL	-	-	-	-
	0.8-9.5	CH	-	-	101.6	19.2%-26.2%

LEGEND

(1) 18′ Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
18′ Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.397+00 TO STA.409+00

SCALE: 1"=50′

4/30/2014
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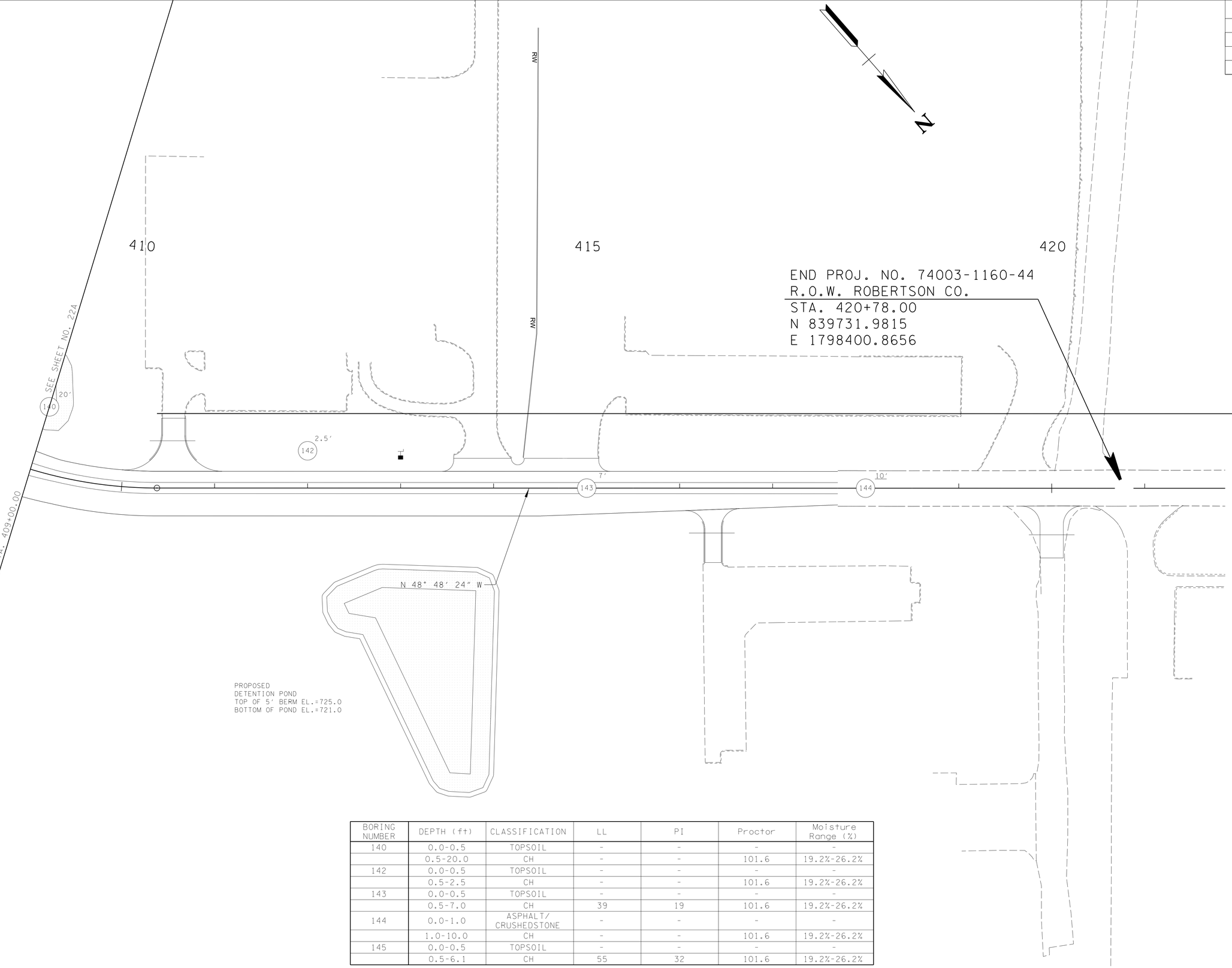
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2012	STP/HPP/NH-65-3(113)	138Z



LEGEND

(1) 18' Control Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

Boring 1
● 18' Verification Boring (The number beside the boring symbol indicates boring termination depth. A line beneath the depth indicates the boring was terminated upon auger refusal.)

BORING NUMBER	DEPTH (ft)	CLASSIFICATION	LL	PI	Proctor	Moisture Range (%)
140	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-20.0	CH	-	-	101.6	19.2%-26.2%
142	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-2.5	CH	-	-	101.6	19.2%-26.2%
143	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-7.0	CH	39	19	101.6	19.2%-26.2%
144	0.0-1.0	ASPHALT/ CRUSHEDSTONE	-	-	-	-
	1.0-10.0	CH	-	-	101.6	19.2%-26.2%
145	0.0-0.5	TOPSOIL	-	-	-	-
	0.5-6.1	CH	55	32	101.6	19.2%-26.2%

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

DANIEL D. TERRACHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023417
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

S.R. 109
STA.409+00 TO E.O.P.

SCALE: 1"=50'

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AA

I-65 STA. 1813+11.77 = HIGHLAND ROAD STA. 10+50.00

STP/HPP/NH-65-3(113)
BEGIN PROJ. NO. 74003-1160-44 R.O.W.
STA. 1814+00.00

1
CENTERLINE

EXISTING GROUND @ C.L.

w%
1 23 SOIL TYPE
2 19 NATURAL MOISTURE
3 28 SOIL NUMBER
37
NR NO REFUSAL

770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675

1807+00 1808+00 1809+00 1810+00 1811+00 1812+00 1813+00 1814+00 1815+00 1816+00 1817+00 1818+00 1819+00 1820+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 — 19 NATURAL MOISTURE
3 — 28 SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

DANIELA D. TERRAKOVA
REGISTERED ENGINEER
No. 023476
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

B.O.P. TO STA.1820+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

4/30/2014
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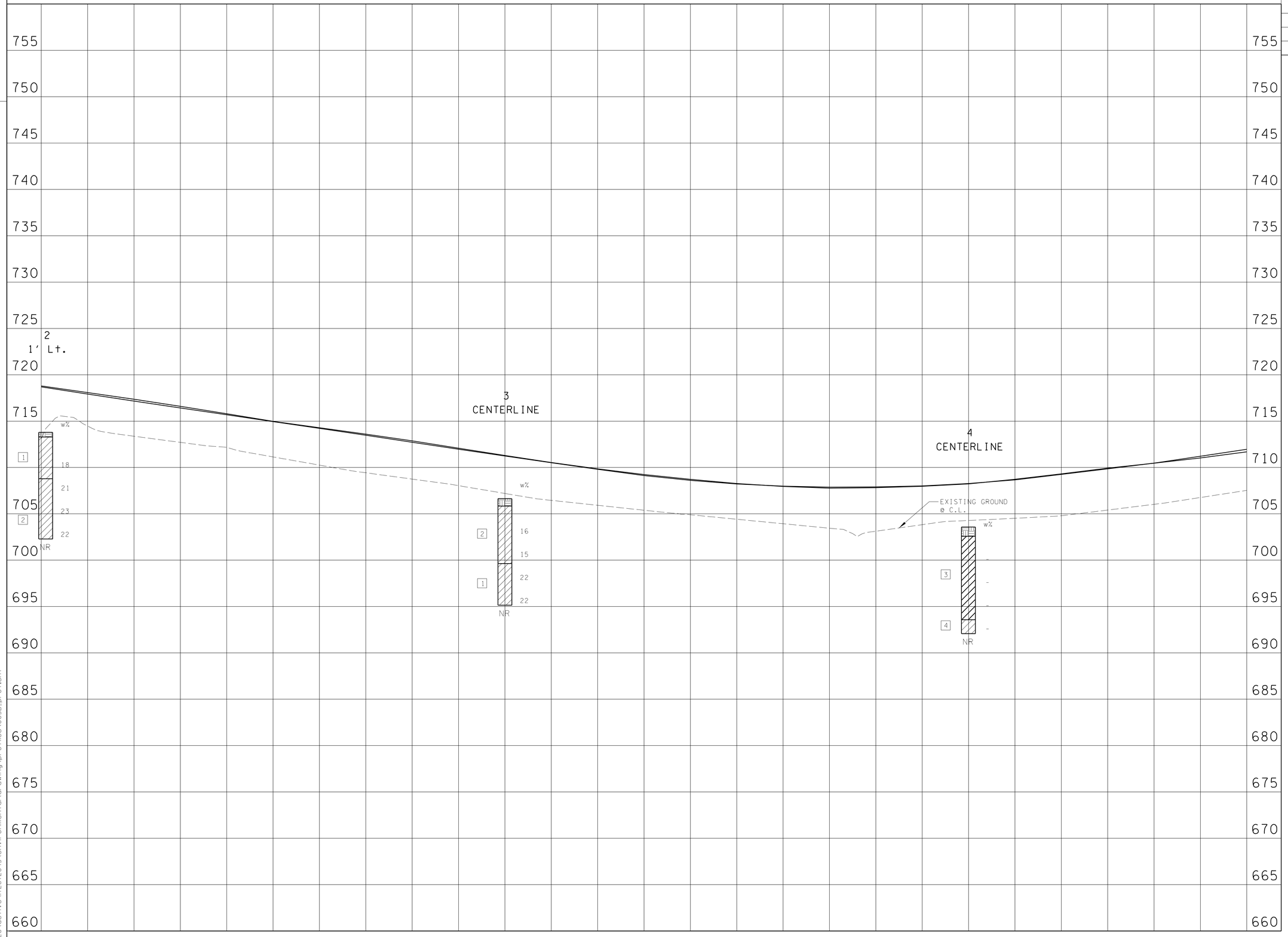
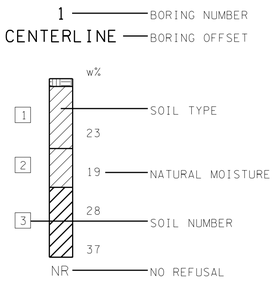
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AB



BORING LOG LEGEND

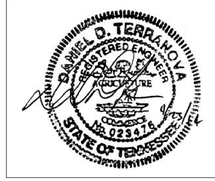


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1820+00 TO STA.1833+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AC

765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675 670

6
CENTERLINE

7
CENTERLINE

5
1' Lt.

EXISTING GROUND
@ C.L.

w%

3
2
NR

1833+00 1834+00 1835+00 1836+00 1837+00 1838+00 1839+00 1840+00 1841+00 1842+00 1843+00 1844+00 1845+00 1846+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
3
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

SAMUEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023416
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 1833+00 TO STA. 1846+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

4/30/2014
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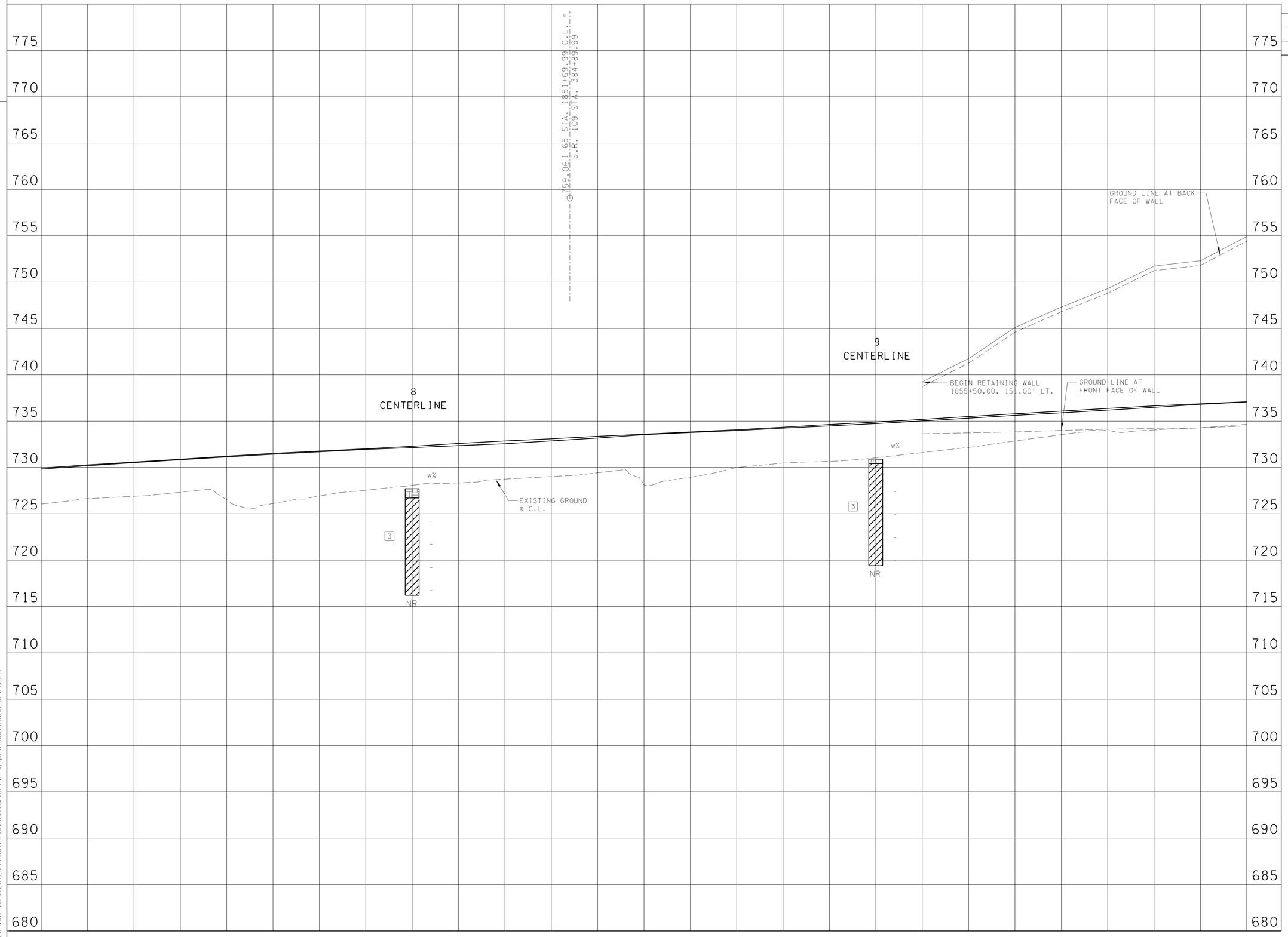
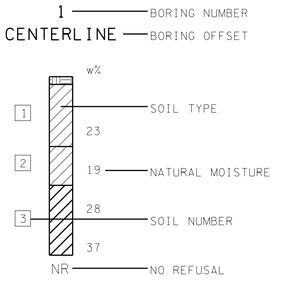
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AD



BORING LOG LEGEND

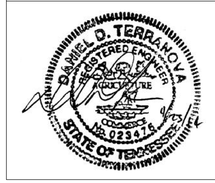


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1846+00 TO STA.1859+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AE

785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690

END RETAINING WALL
1860+50.00,
151.00' LT.

11
CENTERLINE

12
CENTERLINE

13
100' Rt.

14
92.0' Rt.

BEGIN RETAINING WALL
1871+25.00,
131.00' LT.

BEGIN RETAINING WALL
1869+25.00,
131.00' LT.

GROUND LINE
AT BACK FACE
OF WALL

OVERLAY
EXISTING

EXISTING GROUND
@ C.L.

GROUND LINE AT
FRONT FACE OF WALL

w%

3 NR

4 3 NR

1 15 19 NR

3 23 25 NR

1859+00 1860+00 1861+00 1862+00 1863+00 1864+00 1865+00 1866+00 1867+00 1868+00 1869+00 1870+00 1871+00 1872+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 — 19 NATURAL MOISTURE
3 — 28 SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

DANIEL D. TERRALKOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1859+00 TO STA.1872+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AF

795 790 785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700

OVERLAY
EXISTING

EXISTING GROUND
@ C.L.

15
65' Lt.

w%
1 — 18 21
3 — 24 24 25
NR — 24

1872+00 1873+00 1874+00 1875+00 1876+00 1877+00 1878+00 1879+00 1880+00 1881+00 1882+00 1883+00 1884+00 1885+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 — 19 — NATURAL MOISTURE
3 — 28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Fill
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
COLLEGE
No. 023416
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1872+00 TO STA.1885+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

4/30/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AC

STP/HPP/NH-65-3(113)
END PROJ. NO. 74003-1160-44 R.O.W.
STA. 1893+98.37

16
68' Lt.

OVERLAY EXISTING

EXISTING GROUND @ C.L.

w%

3	30	
	28	
2	21	
	23	
3	28	
	NR	

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 — 19 NATURAL MOISTURE
3 — 28 SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

SAMUEL D. TERRALKOVA
REGISTERED ENGINEER
AGENCY NAME
No. 023475
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.1885+00 TO STA.1898+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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4/30/2014

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AH

STP/HPP/NH-65-3(113)
END PROJ. NO. 74003-1160-44 CONST.
STA. 1905+00.00

17
66' Lt.

18
67' Lt.

w%
21
24
21
23
-
35
37

OVERLAY EXISTING

EXISTING GROUND @ C.L.

w%
-
-
-
-
-
-

NR

820 815 810 805 800 795 790 785 780 775 770 765 760 755 750 745 740 735 730 725

1898+00 1899+00 1900+00 1901+00 1902+00 1903+00 1904+00 1905+00 1906+00 1907+00 1908+00 1909+00 1910+00 1911+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 — 19 NATURAL MOISTURE
3 — 28 SOIL NUMBER
37
NR — NO REFUSAL

LEGEND
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
No. 023416
STATE OF TENNESSEE

I-65

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

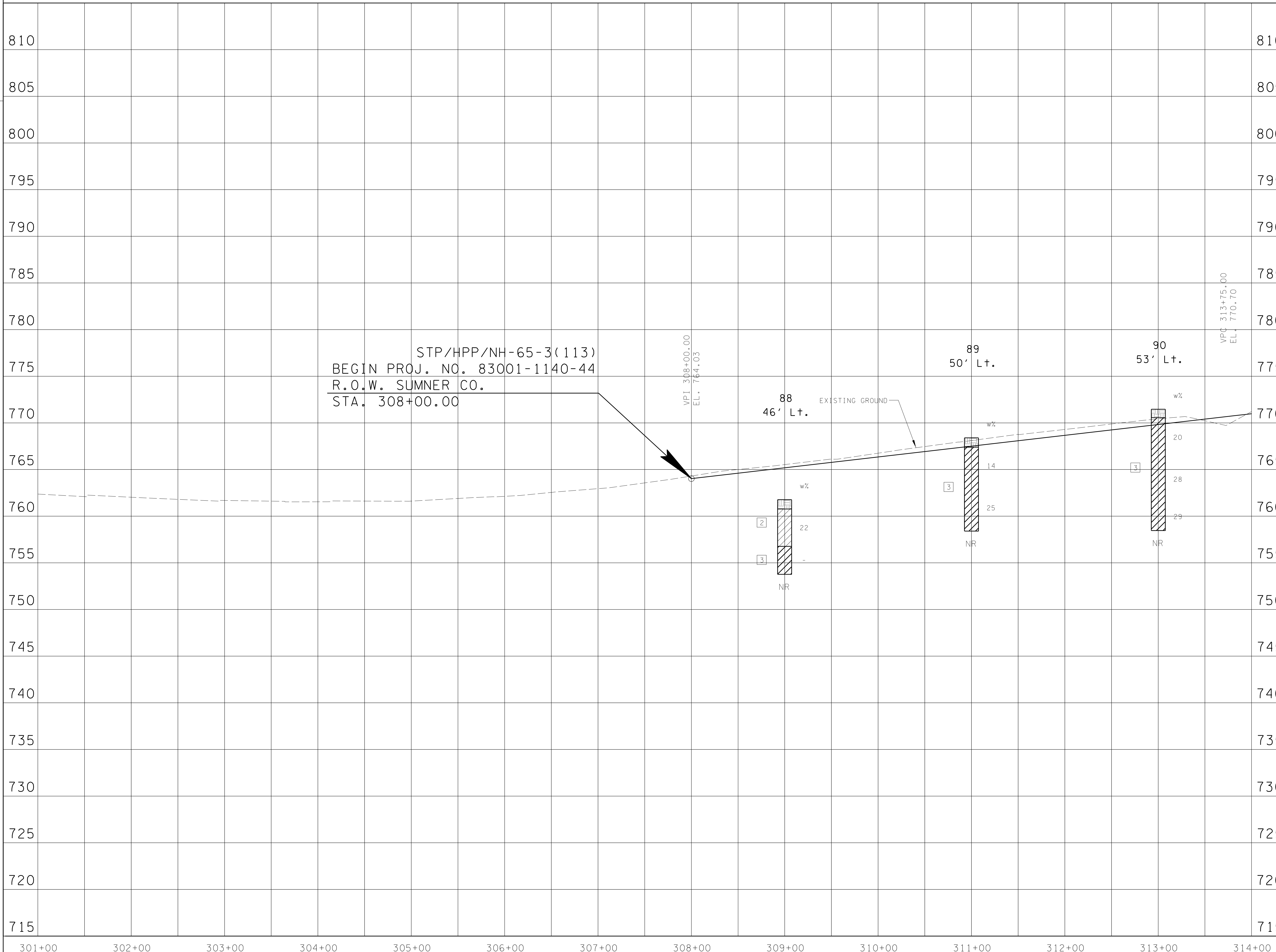
STA. 1898+00 TO E.O.P.
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$$$SYTIME$$$$$$
$$$$$$DONSPEC$$$$$$

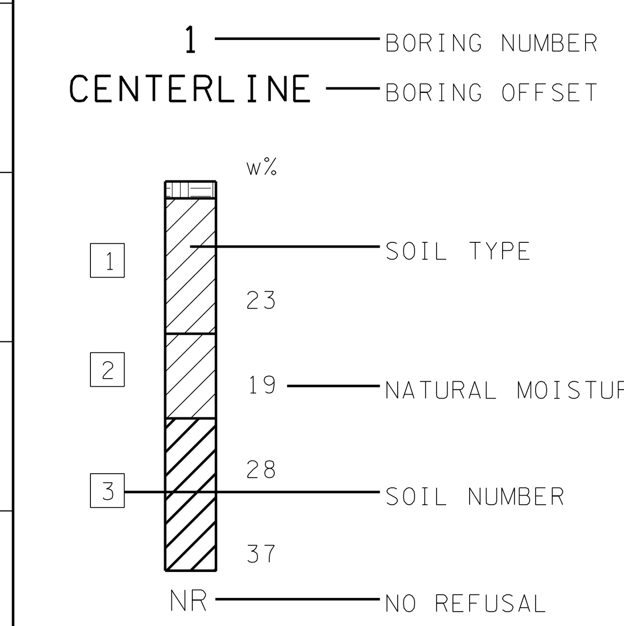
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138A1



BORING LOG LEGEND



UNOFFICIAL SET NOT FOR BIDDING

LEGEND

Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

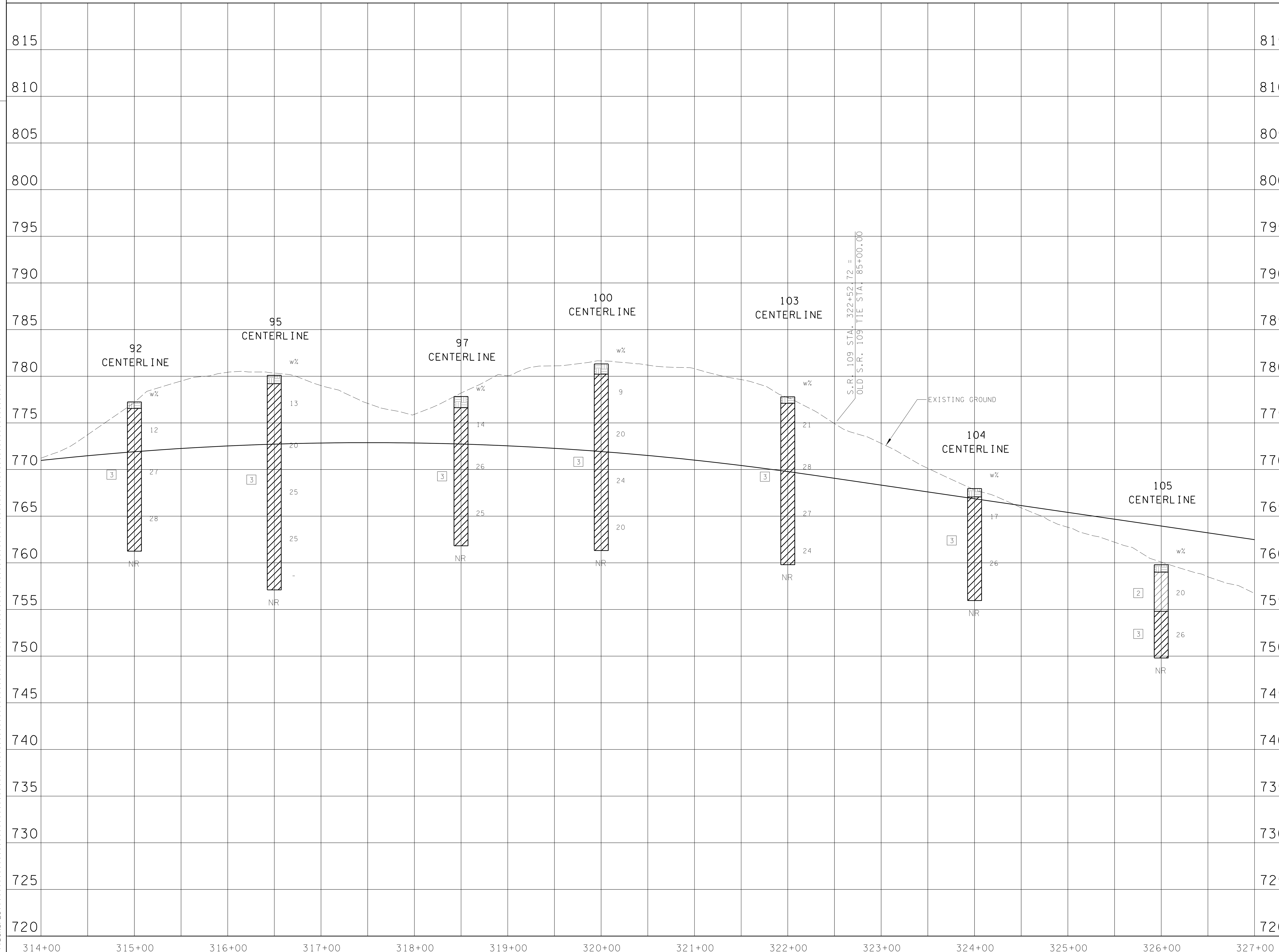
PROFILE

B.O.P. TO STA. 314+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AJ



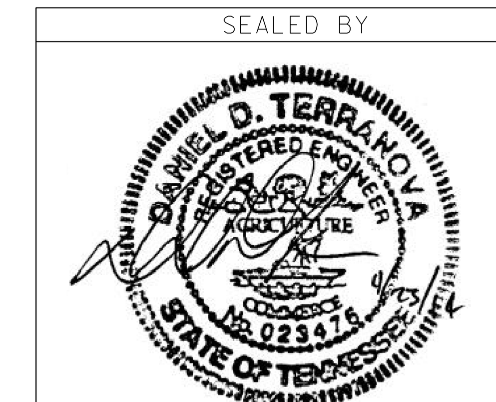
BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET
w%
SOIL TYPE
23
19 — NATURAL MOISTURE
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY



SR-109

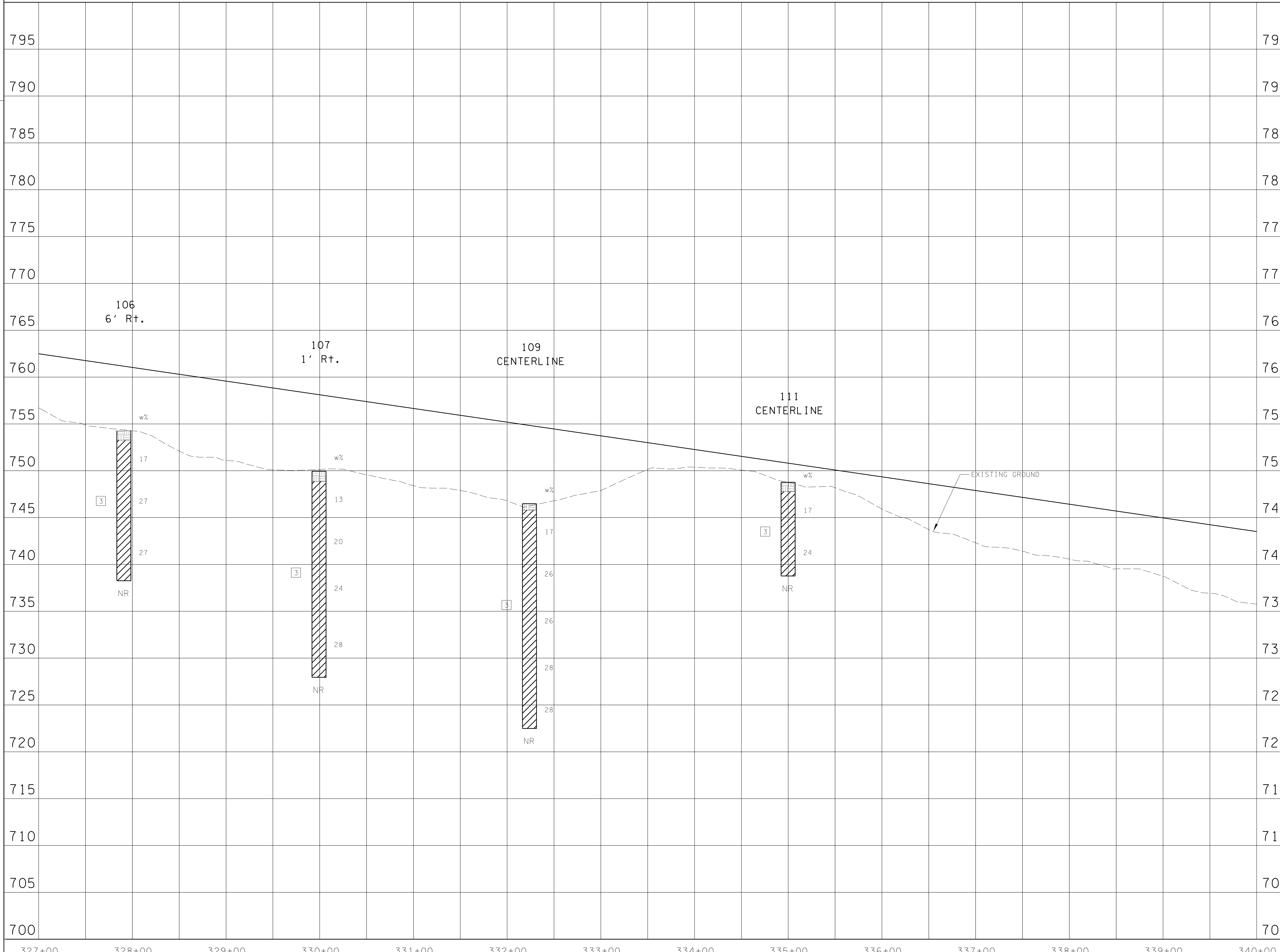
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

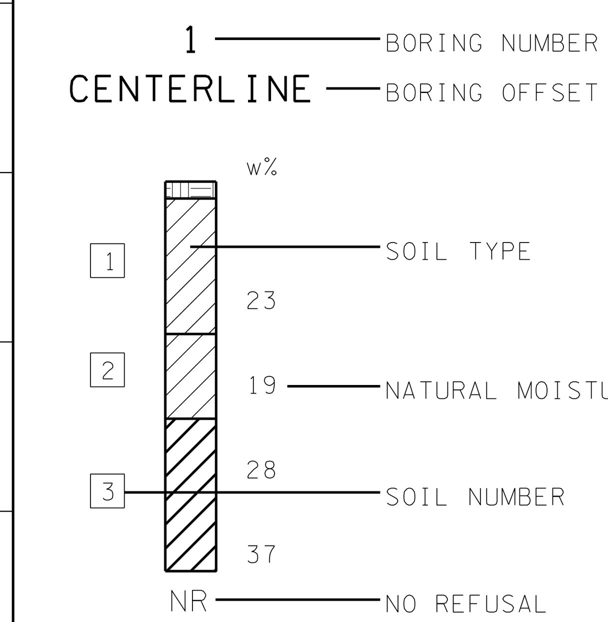
STA. 314+00 TO STA. 327+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AK



BORING LOG LEGEND

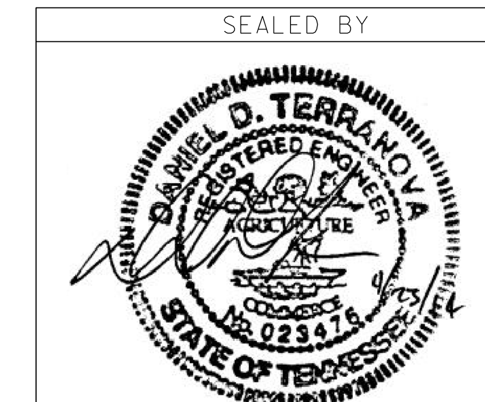


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY



SR-109

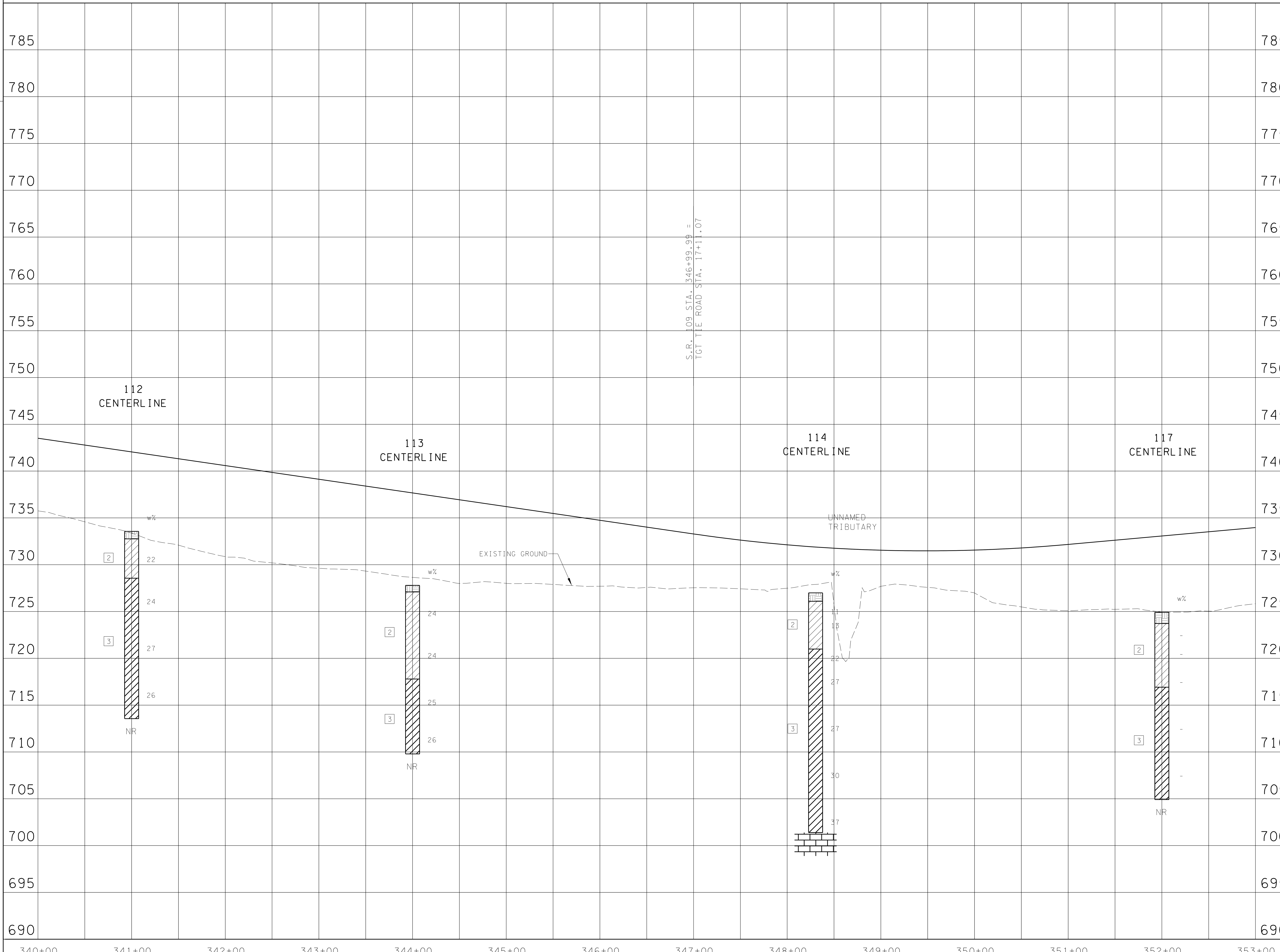
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 327+00 TO STA. 340+00
SCALE: 1"= 50′ HORIZ.
1"= 5′ VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AL



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET
w%
SOIL TYPE
23
19 — NATURAL MOISTURE
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

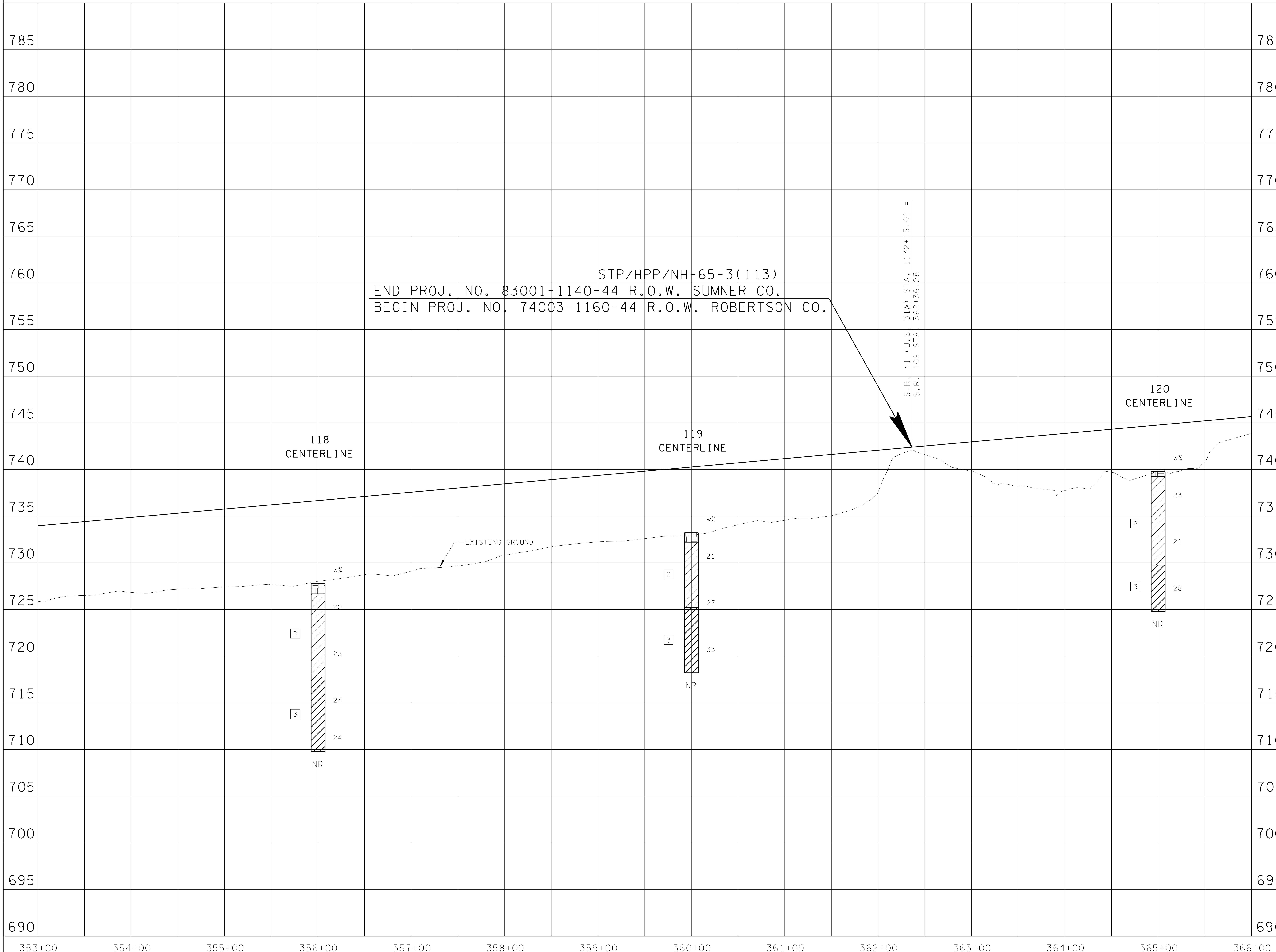
PROFILE

STA. 340+00 TO STA. 353+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$SYTIME$$$$
$$$$DCNSPEC$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AM



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET
SOIL TYPE
NATURAL MOISTURE
SOIL NUMBER
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

SR-109

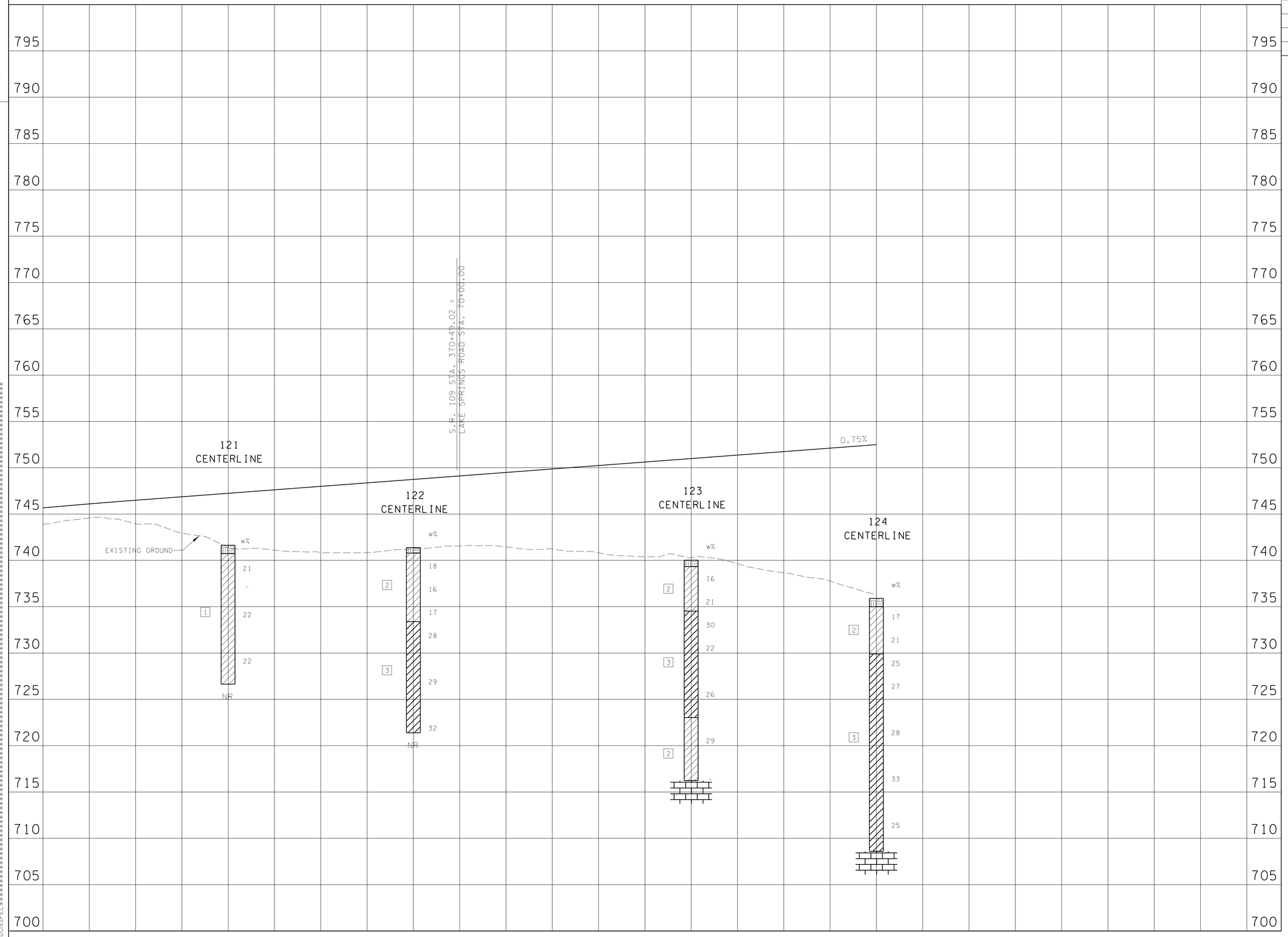
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 353+00 TO STA. 366+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

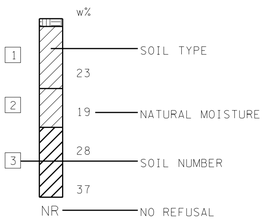
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AN



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

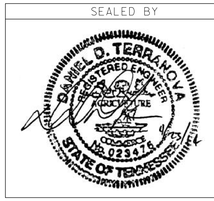


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY



SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

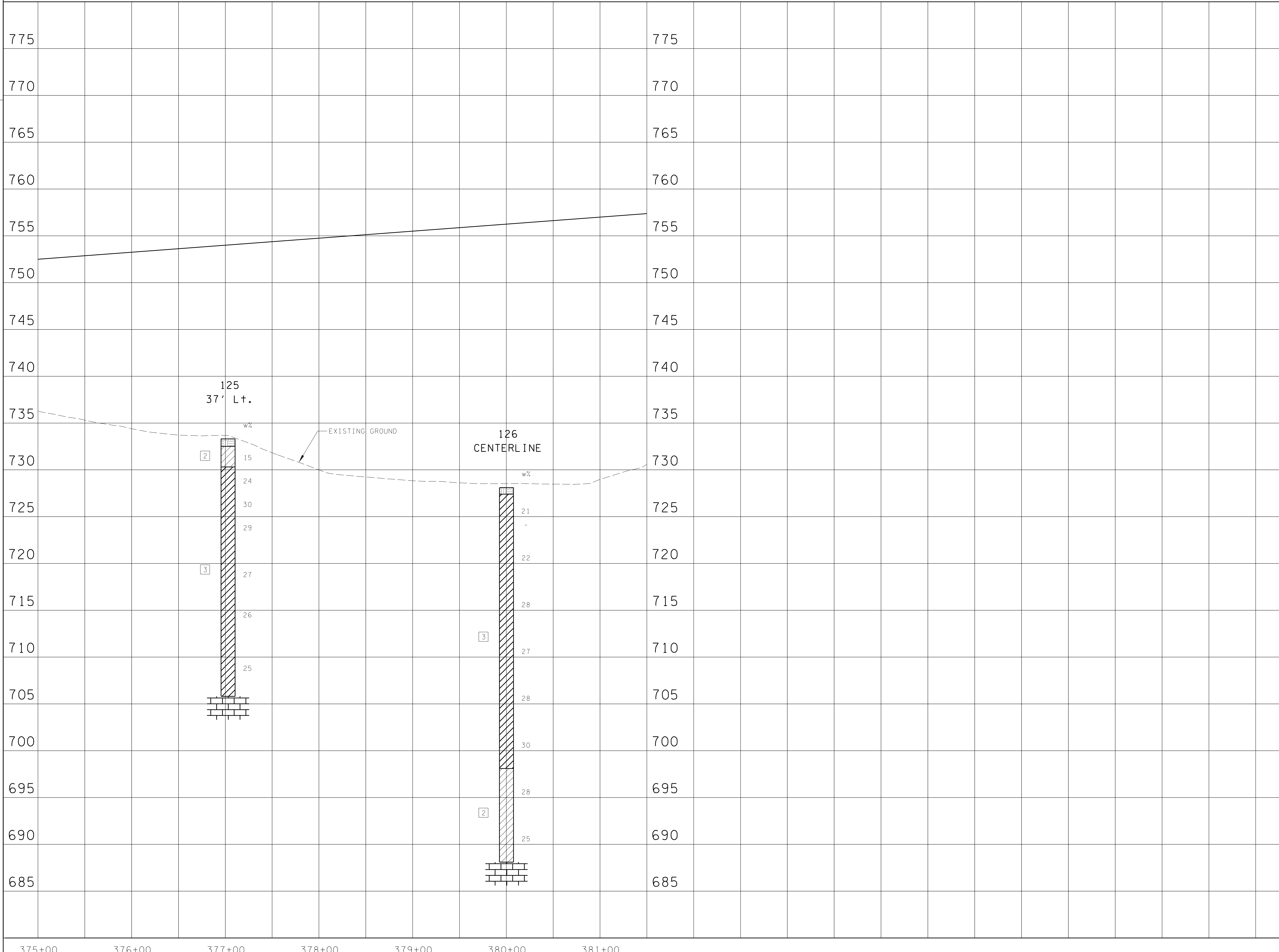
PROFILE

STA. 366+00 TO STA. 375+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

$$$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138A0

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET
w%
1 — SOIL TYPE
23
2 19 — NATURAL MOISTURE
3 28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY
DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

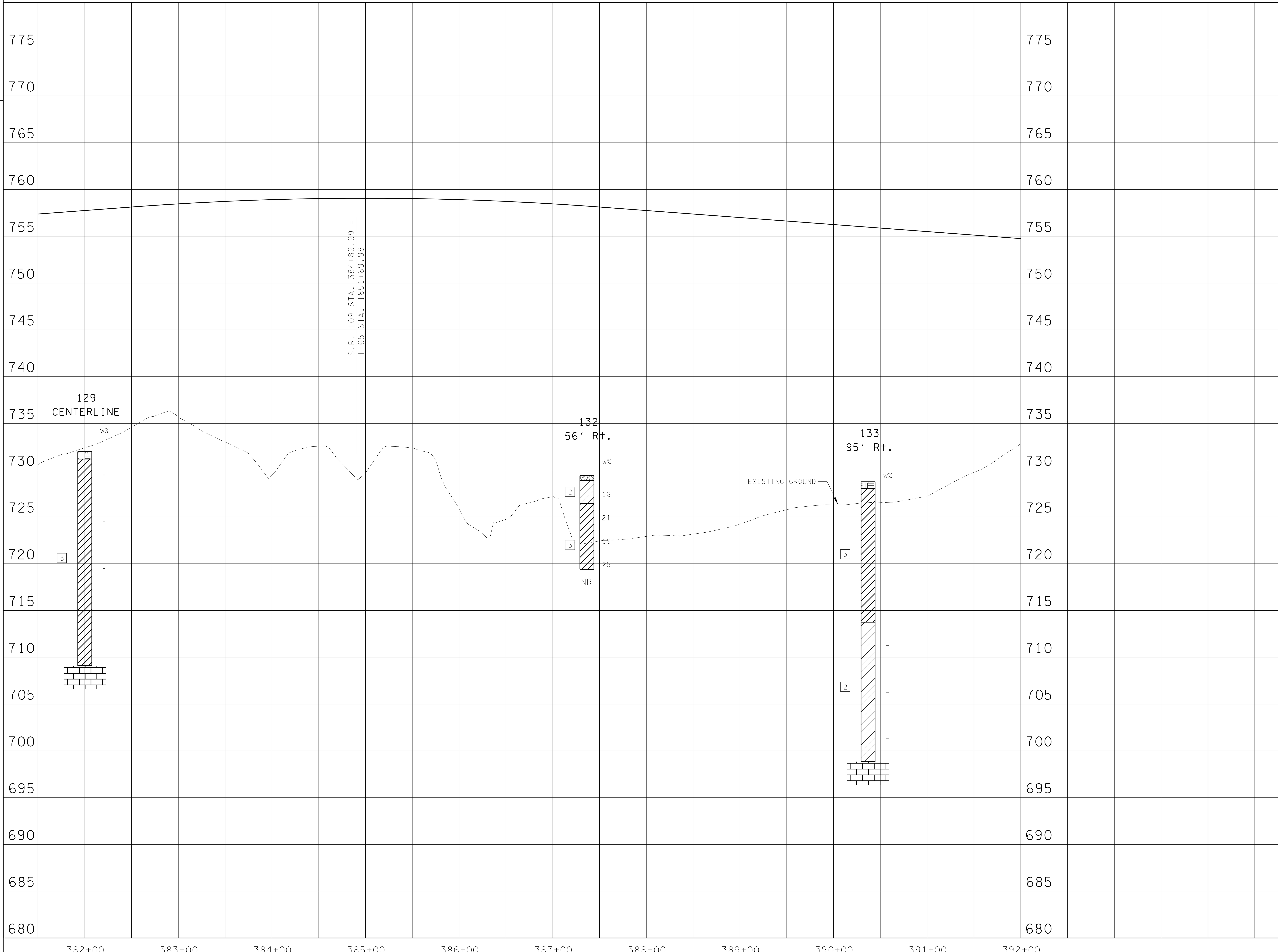
PROFILE

STA. 375+00 TO STA. 381+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AP



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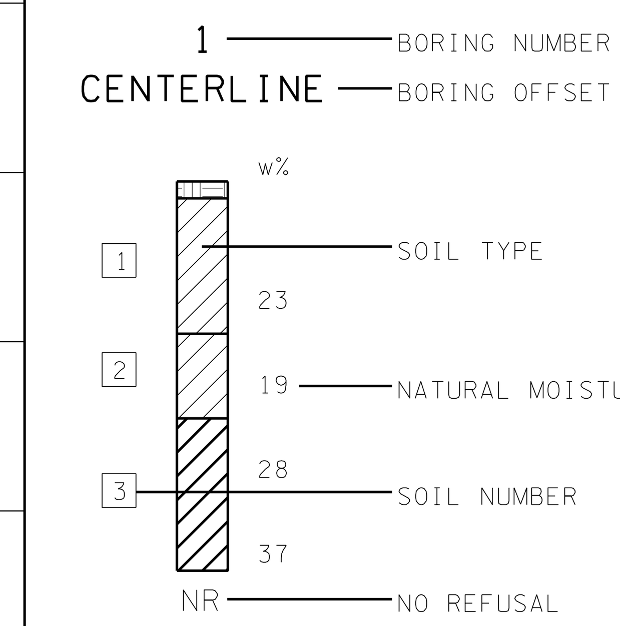


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

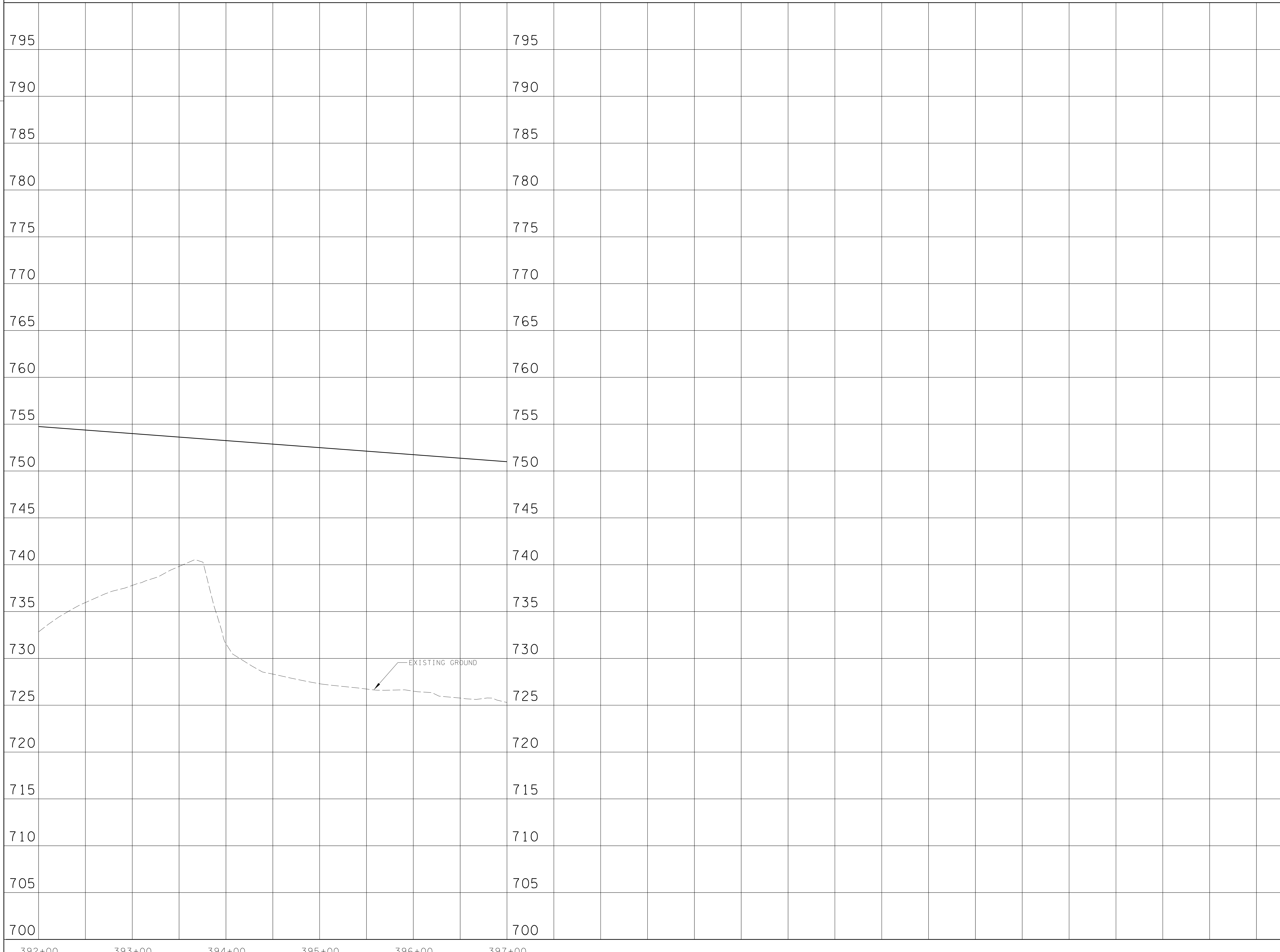
PROFILE

STA. 381+50 TO STA. 392+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138A0

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET
w%
SOIL TYPE
23
19 — NATURAL MOISTURE
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

SR-109

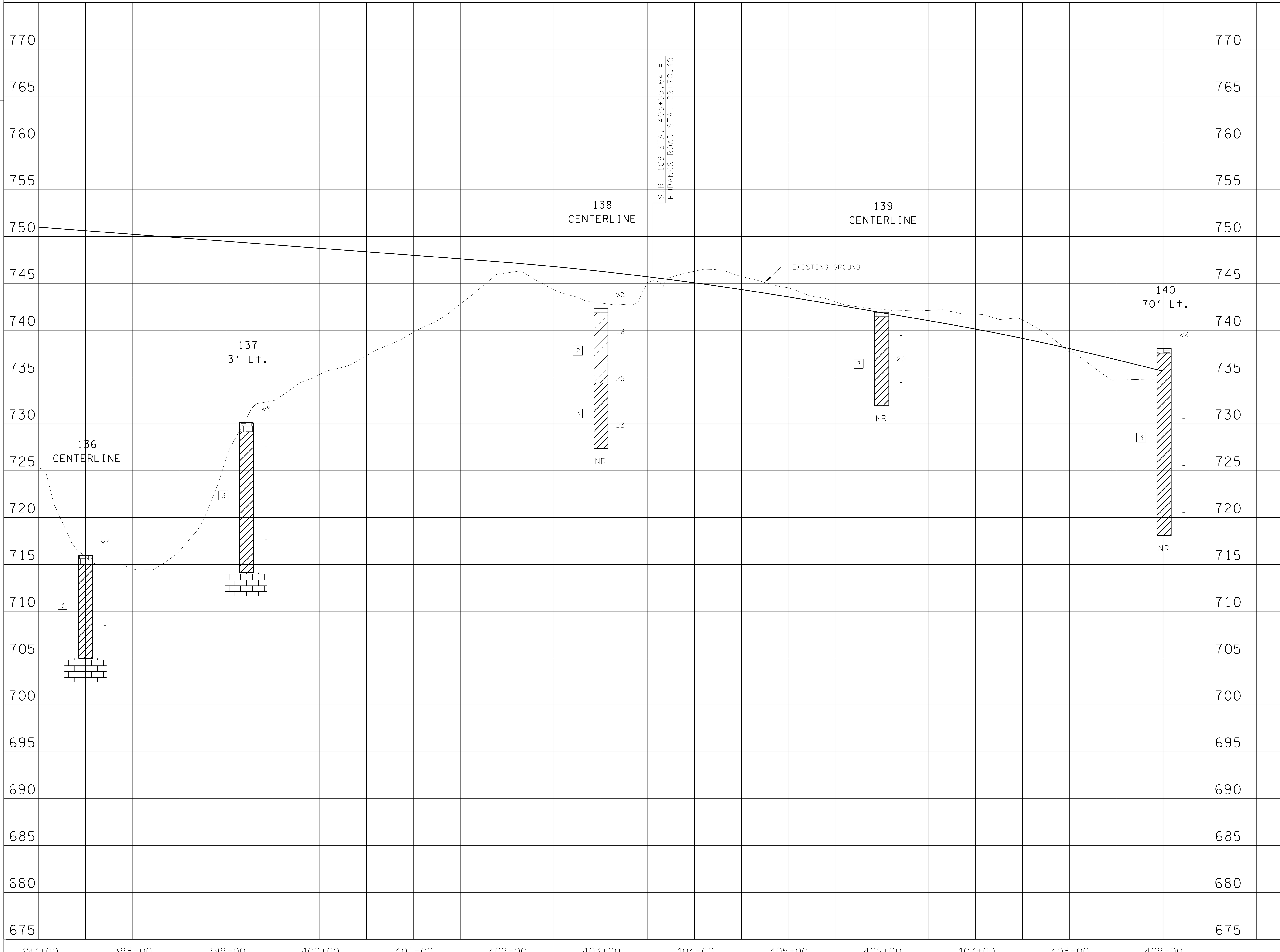
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 392+00 TO STA. 397+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AR



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET
w%
SOIL TYPE
23
19 — NATURAL MOISTURE
28
3 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Asphalt
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

DANIEL D. TERRAHOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023476
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

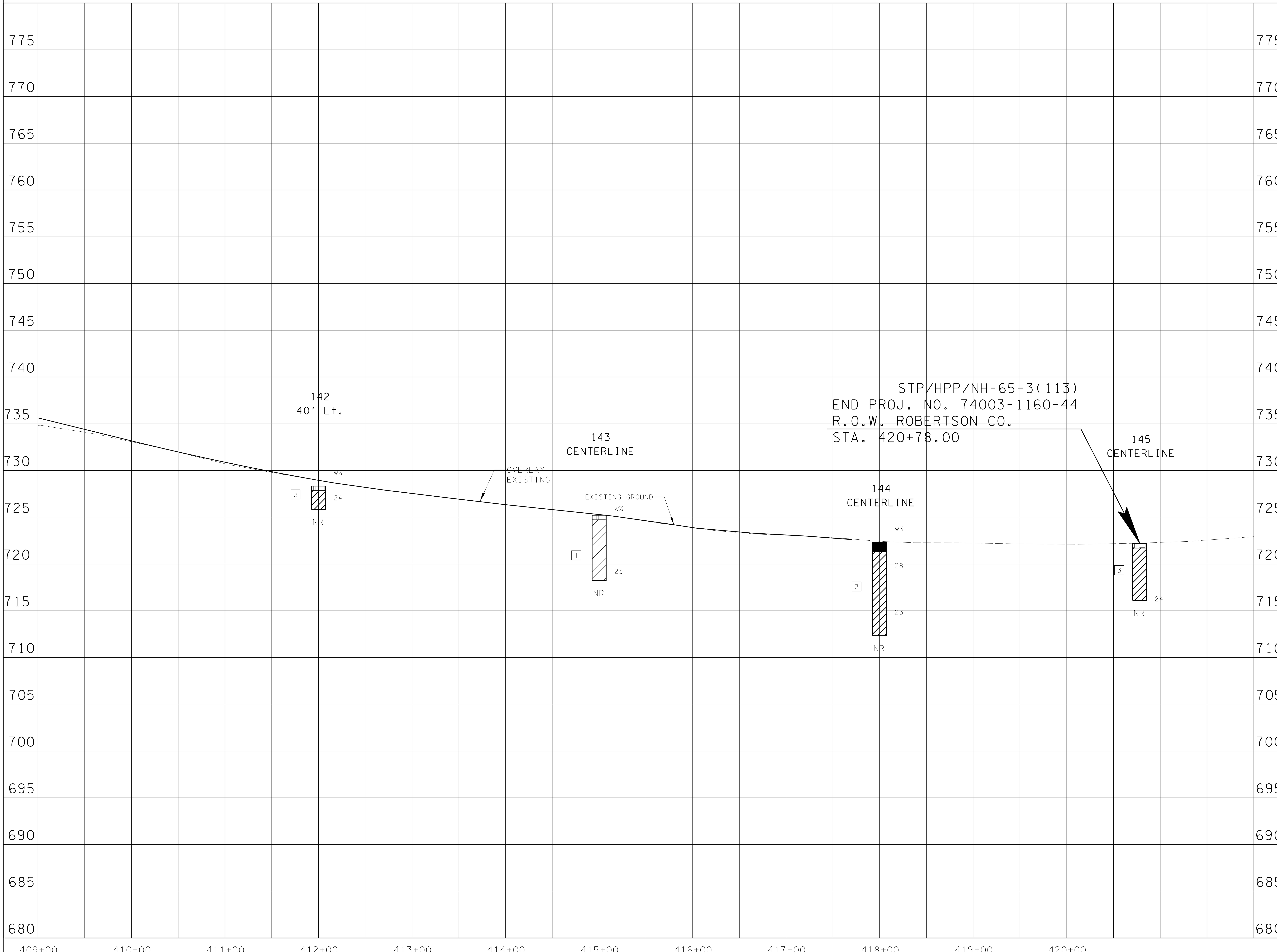
PROFILE

STA. 397+00 TO STA. 409+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

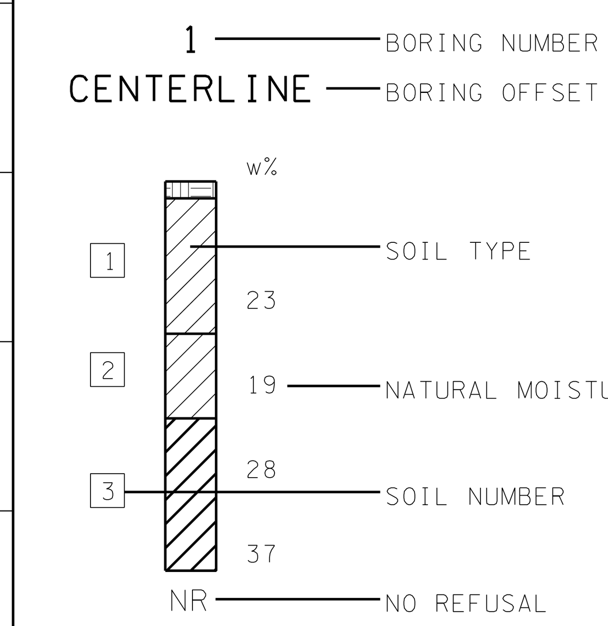
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AS



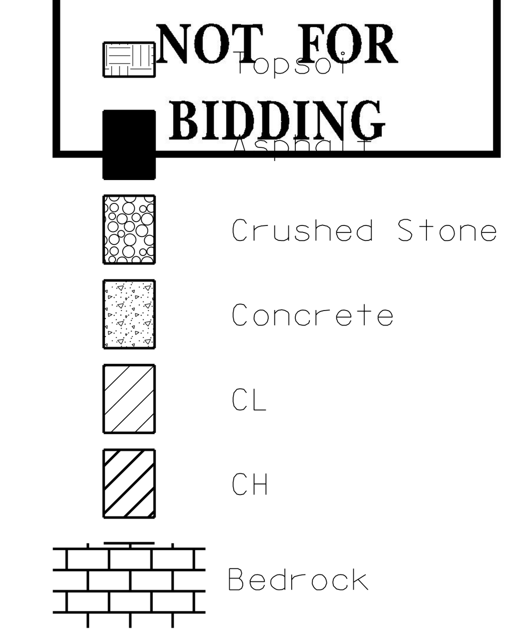
BORING LOG LEGEND



UNOFFICIAL SET

NOT FOR BIDDING

LEGEND



SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
NO. 023476
STATE OF TENNESSEE

SR-109

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 409+00 TO E.O.P.
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AT

S.R. 109 STA. 322+52.72 =
S.R. 109 TIE STA. 85+00.00

146
40' lt.

147
CENTERLINE

148
25' Lt.

EXISTING GROUND

LIMIT OF CONST.
STA. 91+50.00

w%
1 — 18 — 21 — 22 — NR

w%
1 — 14 — 23 — NR

w%
1 — 18 — 21 — NR

OLD SR-109 TIE RT.
STA. 322+52.72 SR-109

800 795 790 785 780 775 770 765 760 755 750 745 740 735 730 725

85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00

BORING LOG LEGEND

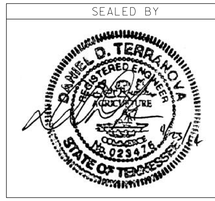
1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 — 19 — NATURAL MOISTURE
3 — 28 — SOIL NUMBER
37
NR — NO REFUSAL

LEGEND
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



OLD SR-109 TIE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

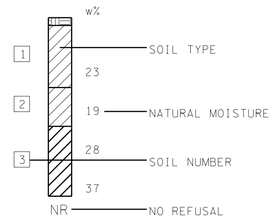
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AU

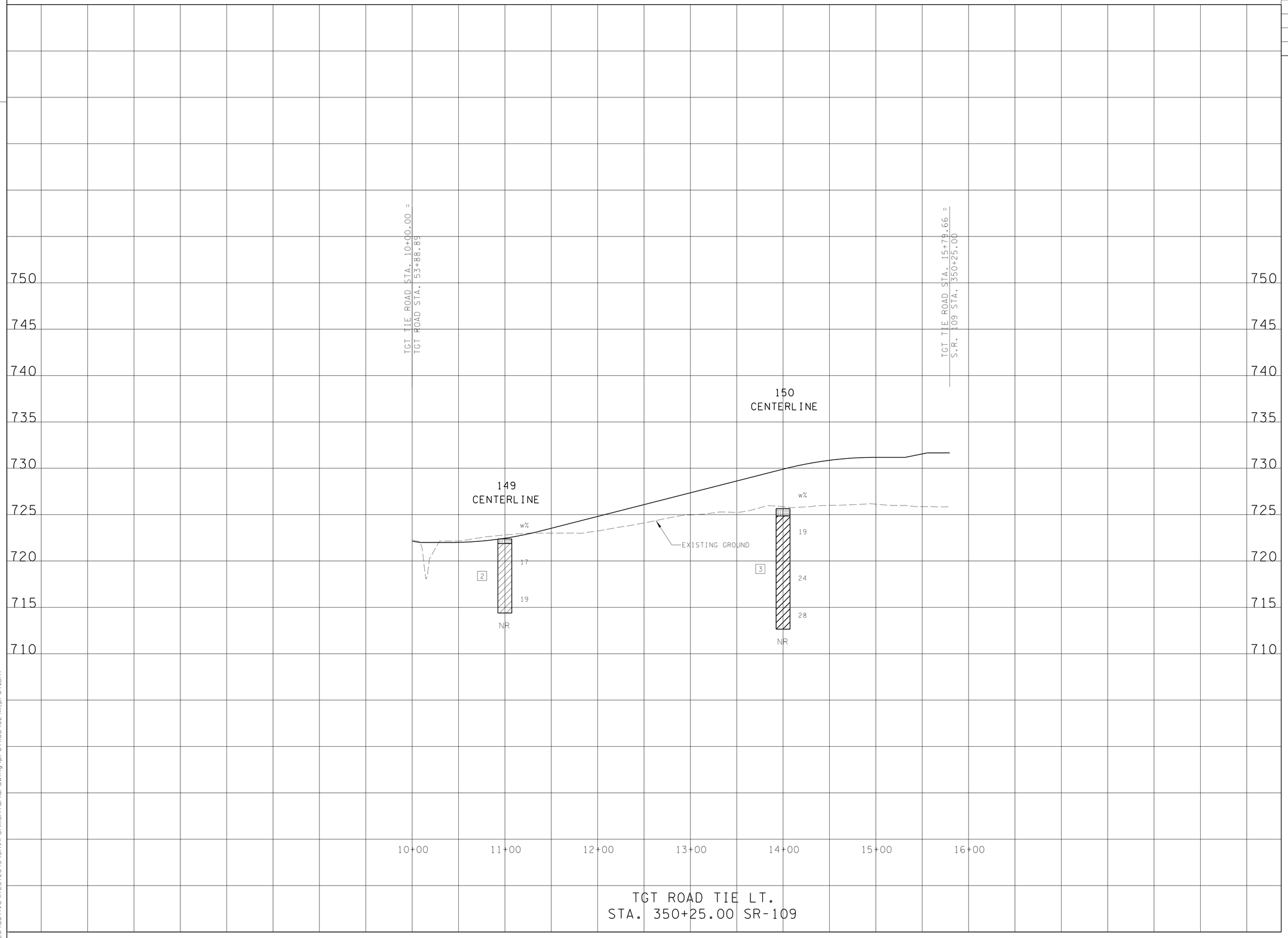
BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET



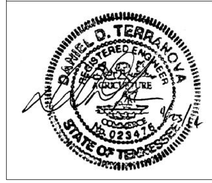
UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock



TGT ROAD TIE LT.
STA. 350+25.00 SR-109

SEALED BY



TGT ROAD TIE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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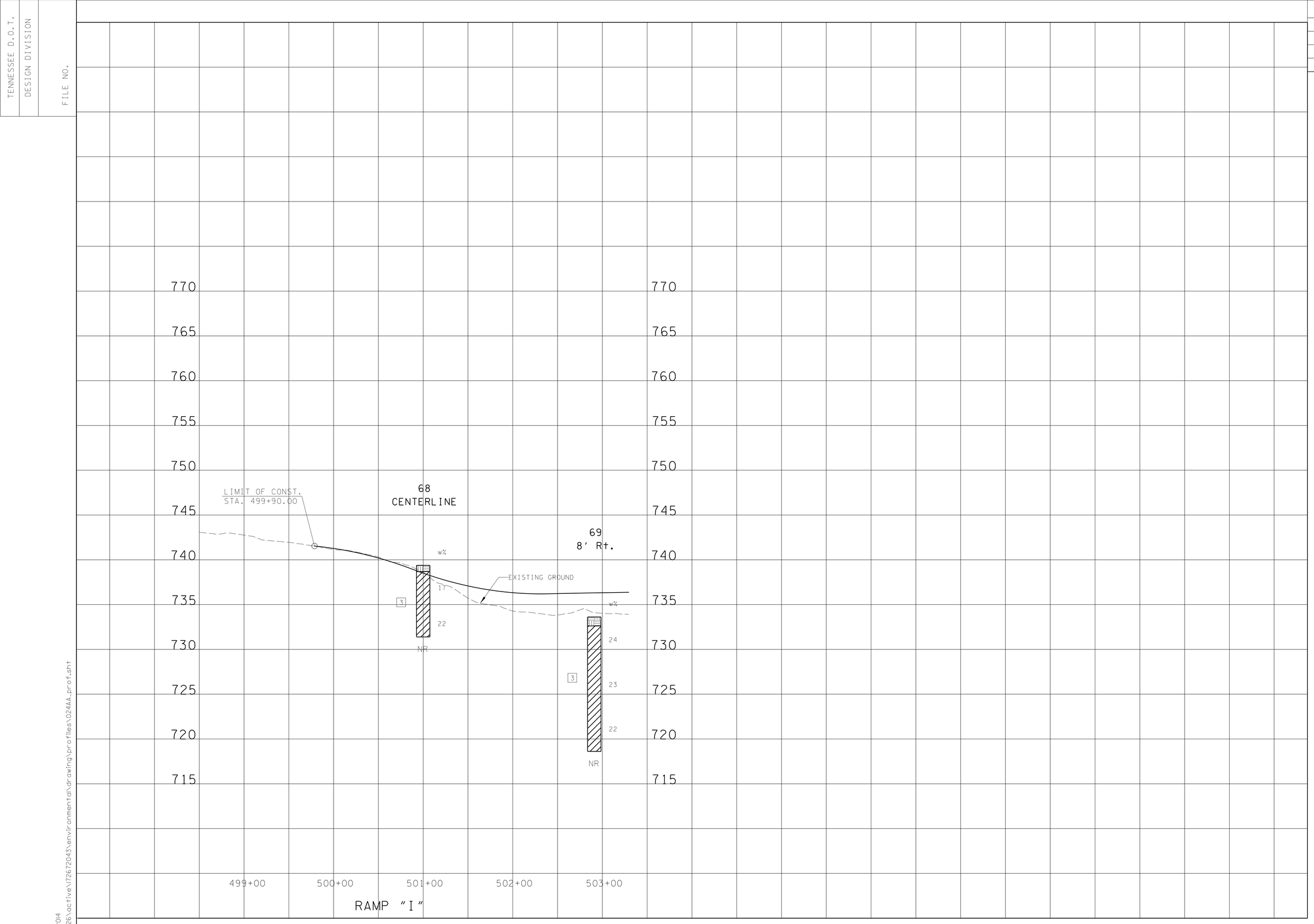
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AV



BORING LOG LEGEND

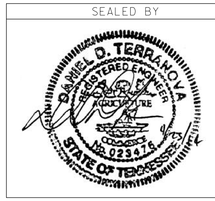
1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
28
3 — SOIL NUMBER
37
NR — NO REFUSAL

LEGEND
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



RAMP "I"

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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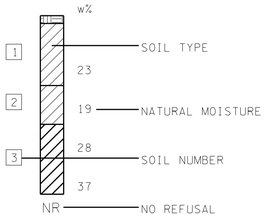
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AW

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

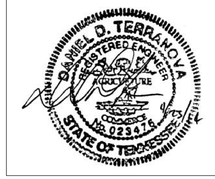


LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

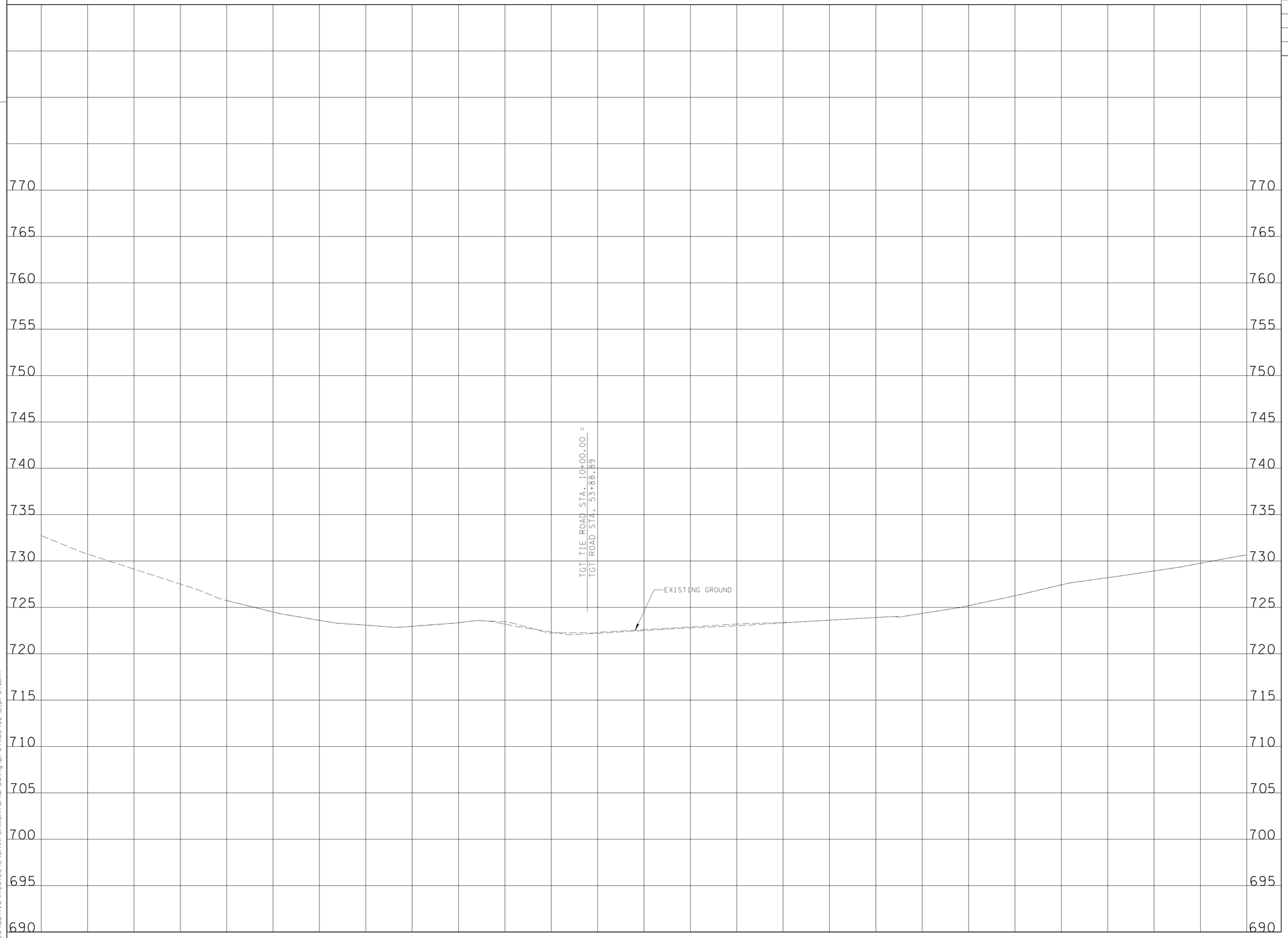


EXISTING TGT ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.



5/1/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AX

770
765
760
755
750
745
740
735
730
725
720

73
CENTERLINE

70
CENTERLINE

71
18' Lt.

72
33' Rt.

w%
2 11
26
3 24
24
33
NR

w%
16
3 24
NR

EXISTING GROUND

w%
2 15
1 16
NR

w%
18
3 27
NR

550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00 561+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2 19 — NATURAL MOISTURE
3 28 — SOIL NUMBER
37
NR — NO REFUSAL

LEGEND
Topsoil
Fill
Crushed Stone
Concrete
CL
CH
Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

DANIEL D. TERRANOVA
REGISTERED ENGINEER
No. 023416
STATE OF TENNESSEE

RAMP J

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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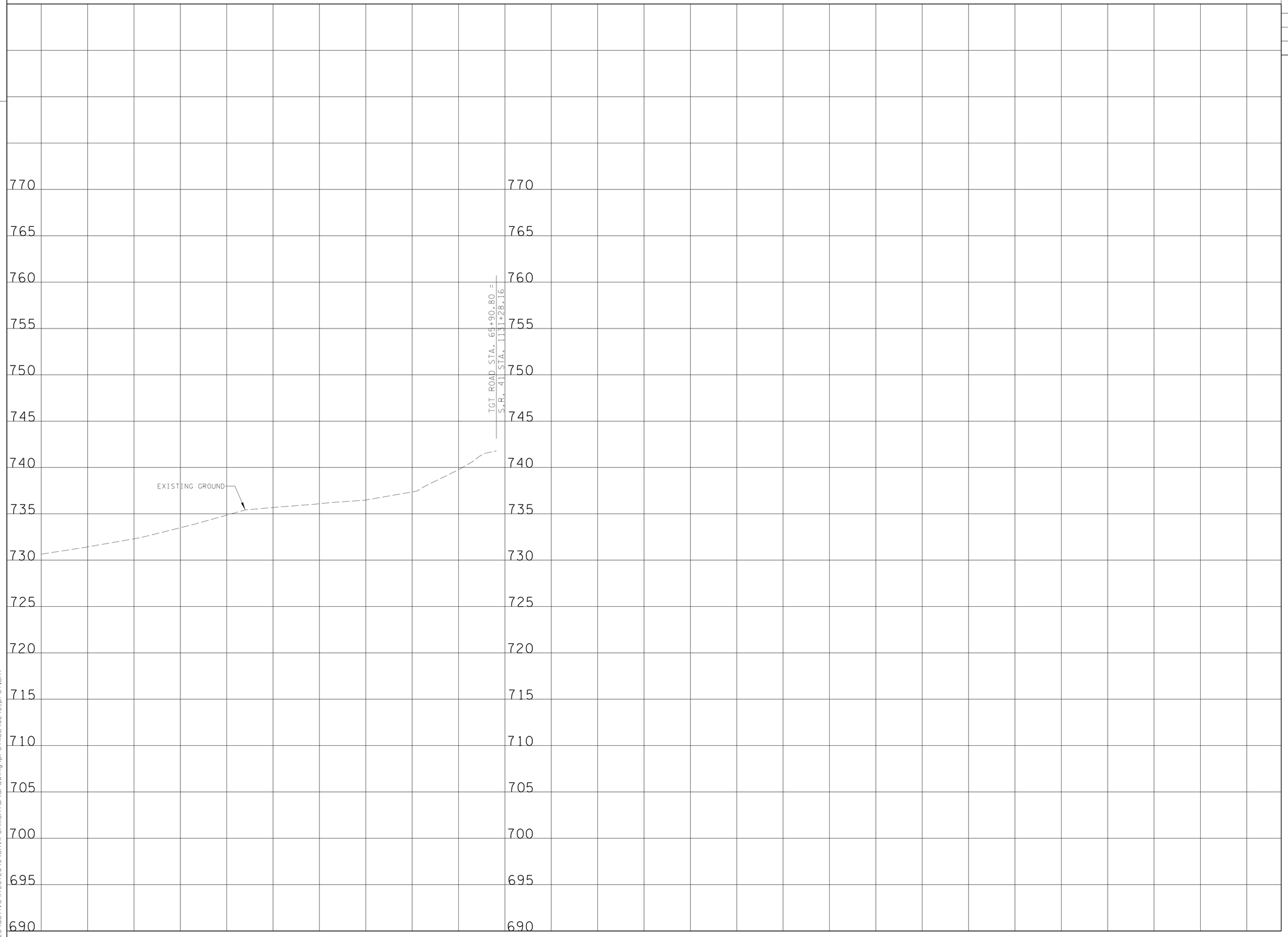
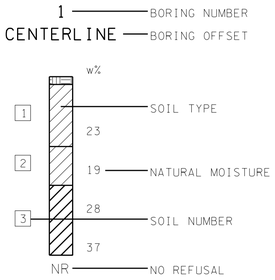
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AY



BORING LOG LEGEND

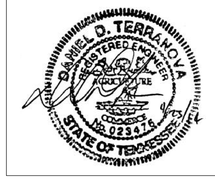


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



EXISTING TGT ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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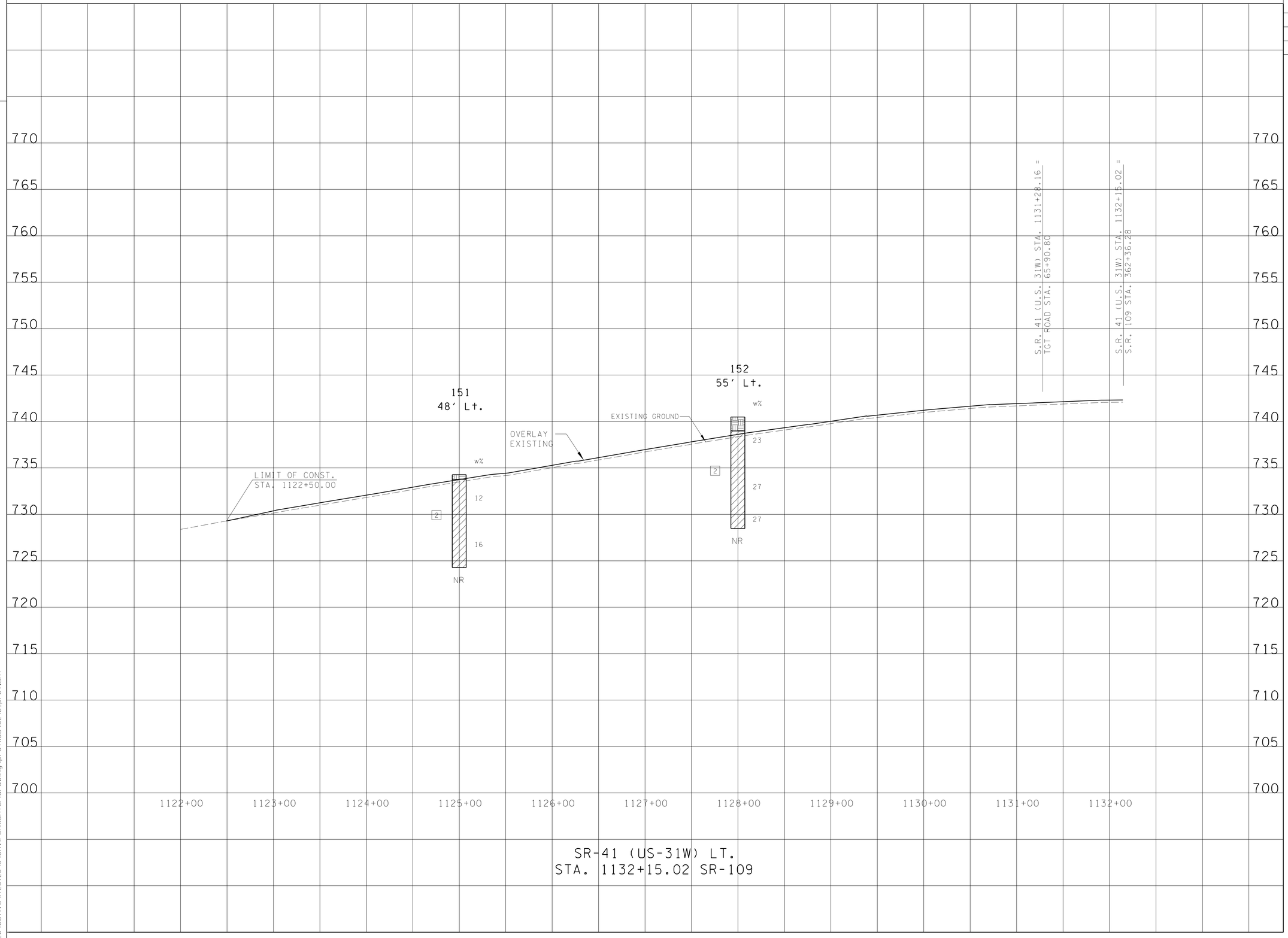
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

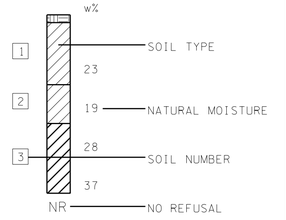
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138AZ



SR-41 (US-31W) LT.
STA. 1132+15.02 SR-109

BORING LOG LEGEND

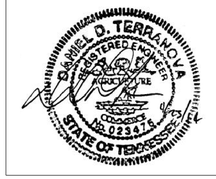
1 — BORING NUMBER
CENTERLINE — BORING OFFSET



UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY



SR-41 (US-31W) LT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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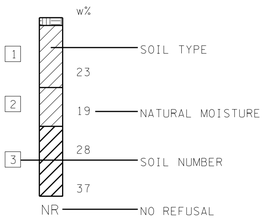
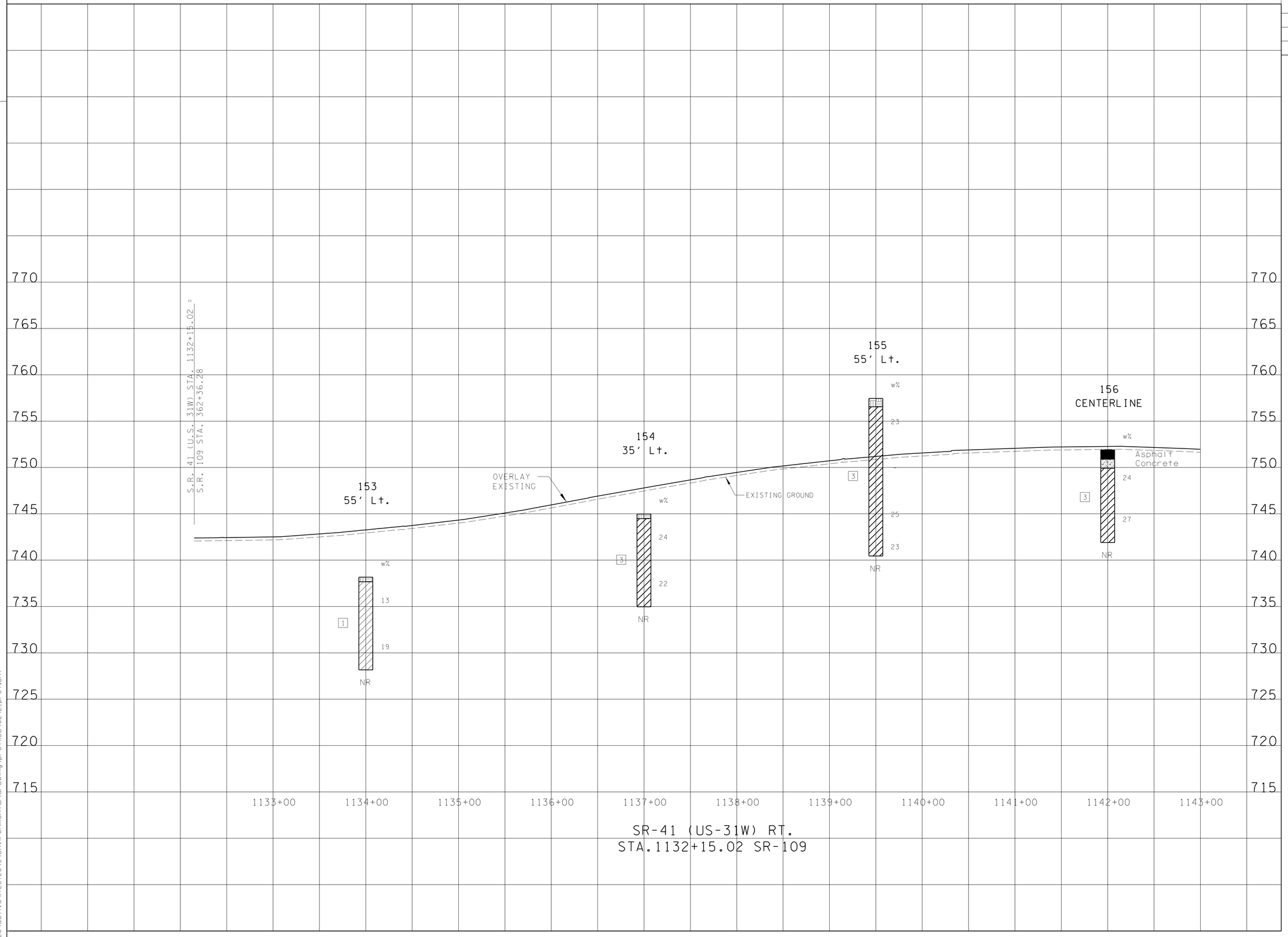
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BA

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET





SR-41 (US-31W) RT.
STA.1132+15.02 SR-109

LEGEND

NOT FOR BIDDING

- Topsoil
- Asphalt
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET

SEALED BY

SR-41 (US-31W) RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

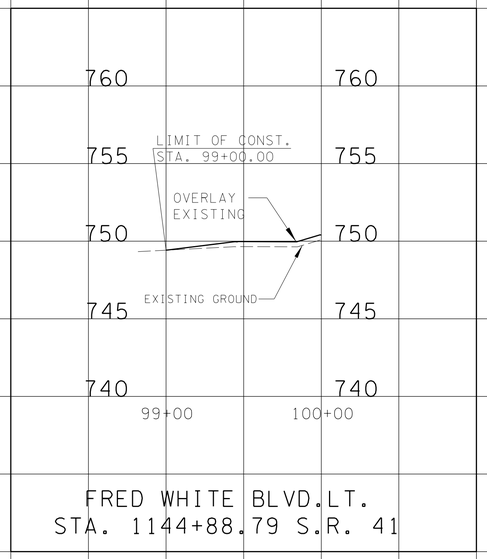
PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

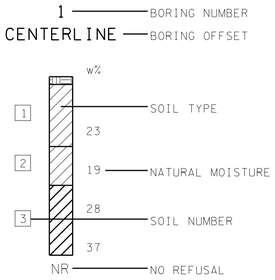
5/1/2014
W:\1726\active\172672043\environmental\drawing\profiles\024E_prof.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138B



BORING LOG LEGEND

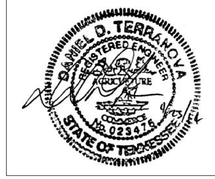


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



SR-41 (US-31W) RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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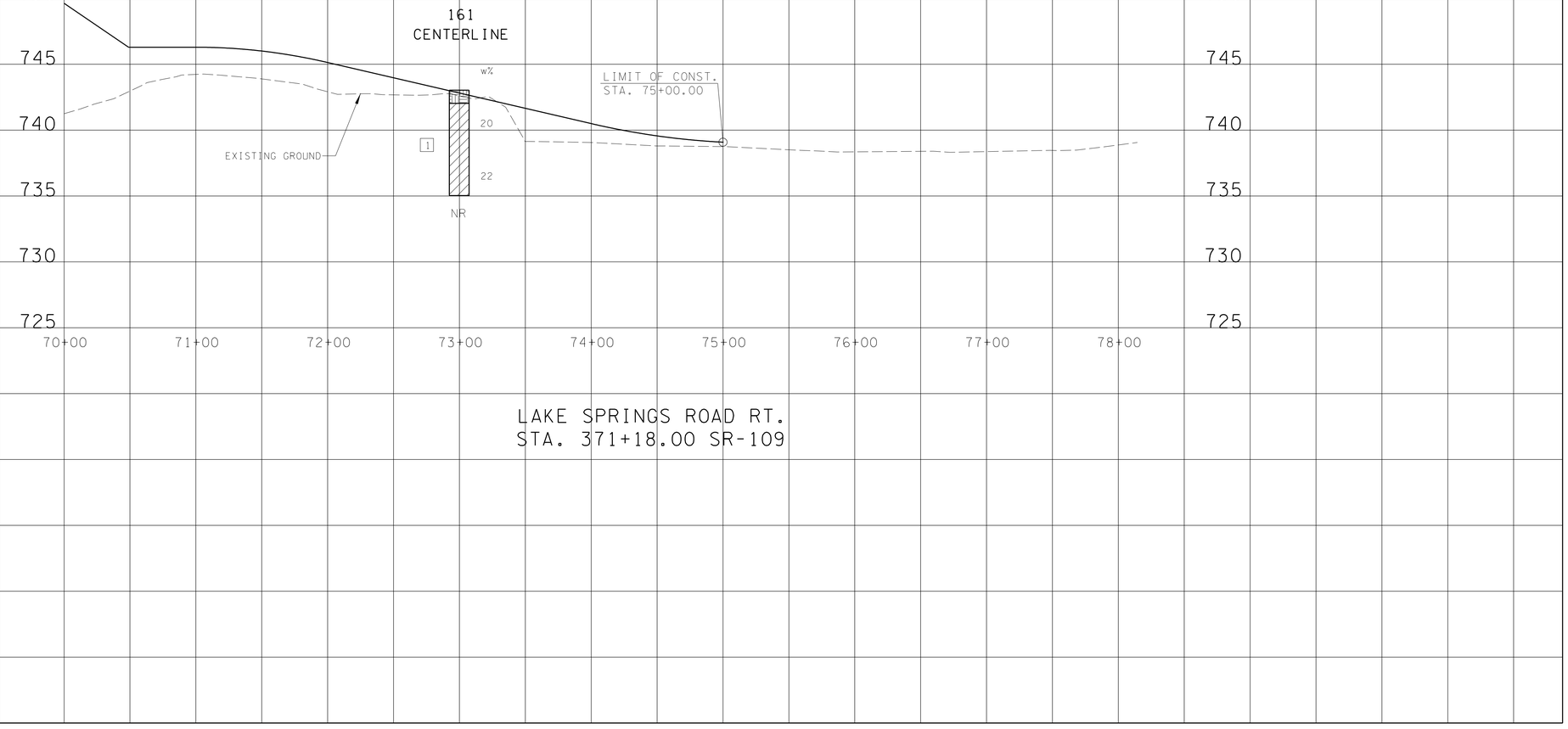
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

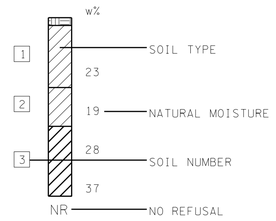
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BC



LAKE SPRINGS ROAD RT.
STA. 371+18.00 SR-109

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

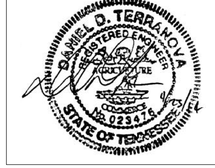


LEGEND

- Topsoil
- Asphalt
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



LAKE SPRINGS ROAD RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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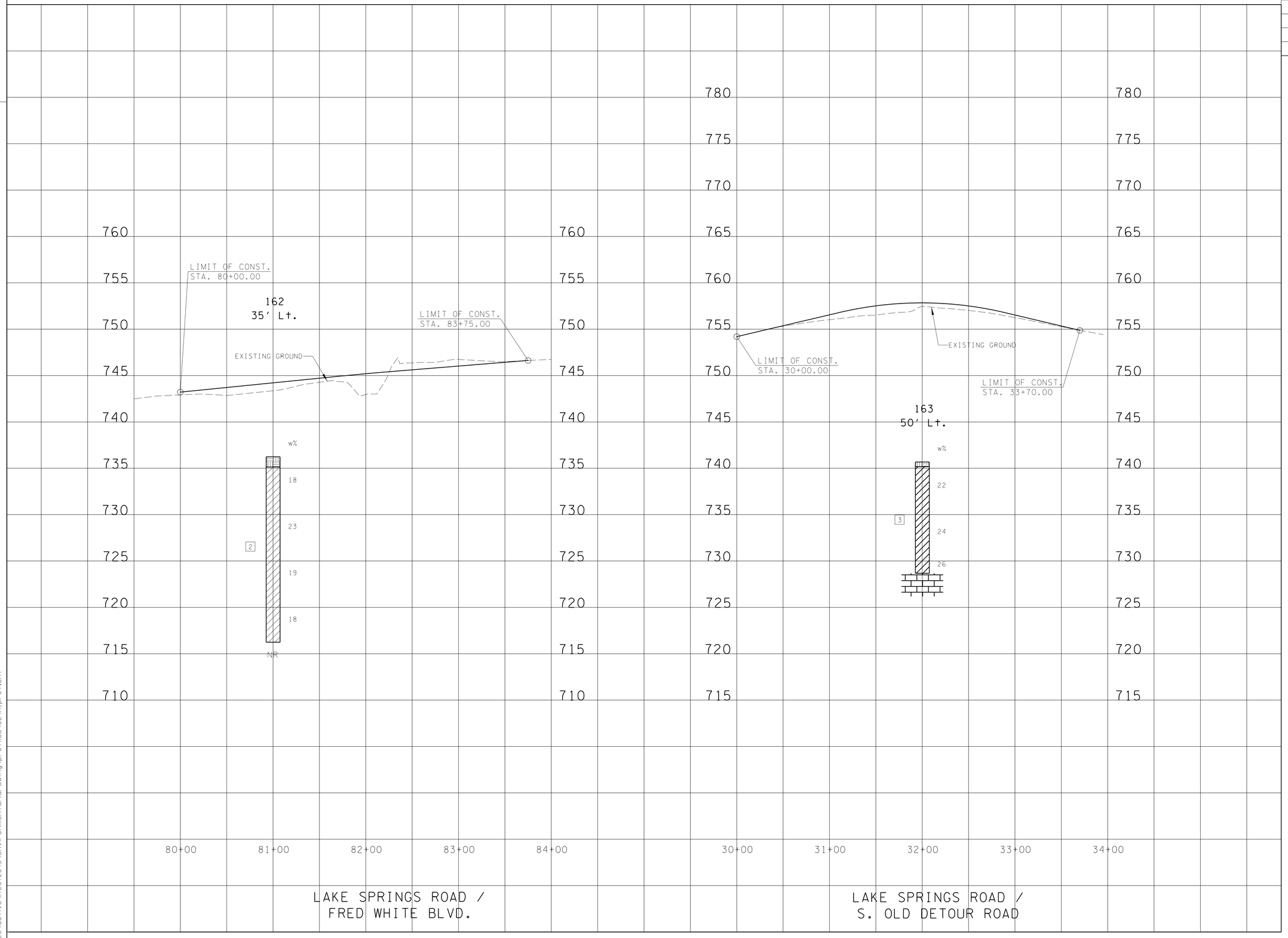
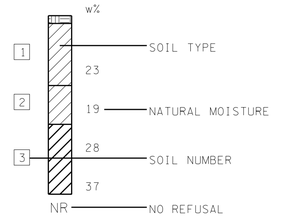
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BD



BORING LOG LEGEND

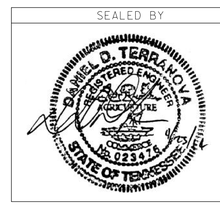
1 — BORING NUMBER
CENTERLINE — BORING OFFSET



LEGEND
Topsoil
Fill
Crushed Stone
Concrete
CL
CH
Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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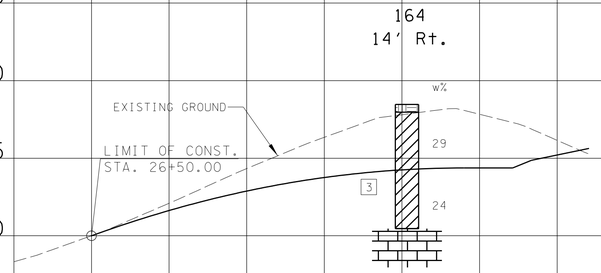
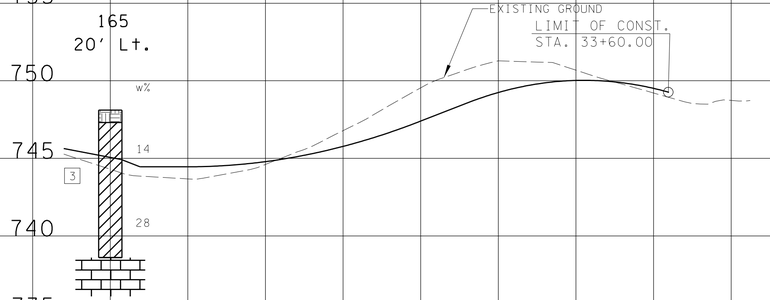
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BE





765 760 755 750 745 740 735 730 725

765 760 755 750 745 740 735

765 760 755 750 745 740 735

765 760 755 750 745 740

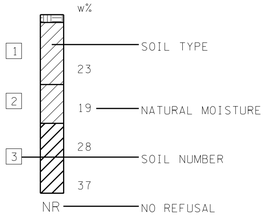
26+00 27+00 28+00 29+00 30+00 30+00 31+00 32+00 33+00 34+00

EUBANKS ROAD LT.
STA. 403+55.64 SR-109

EUBANKS ROAD RT.
STA. 403+55.64 SR-109

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

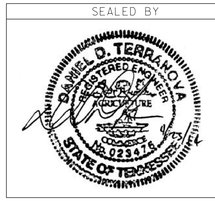


LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



EUBANKS ROAD
LT. & RT.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF
SIDE ROADS
AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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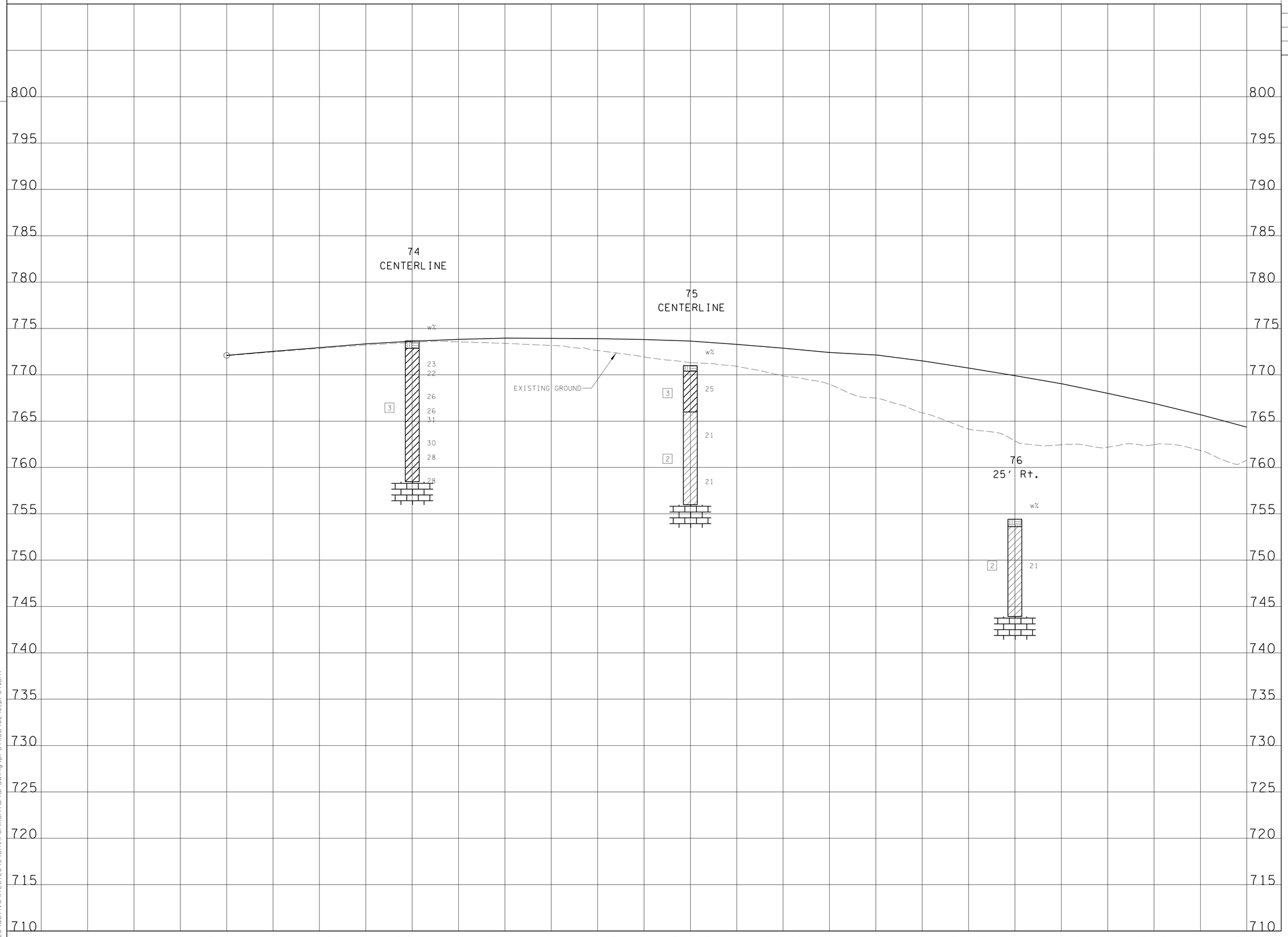
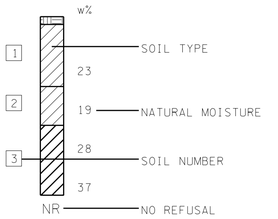
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BF



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

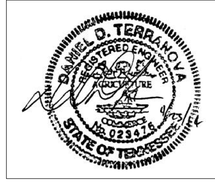


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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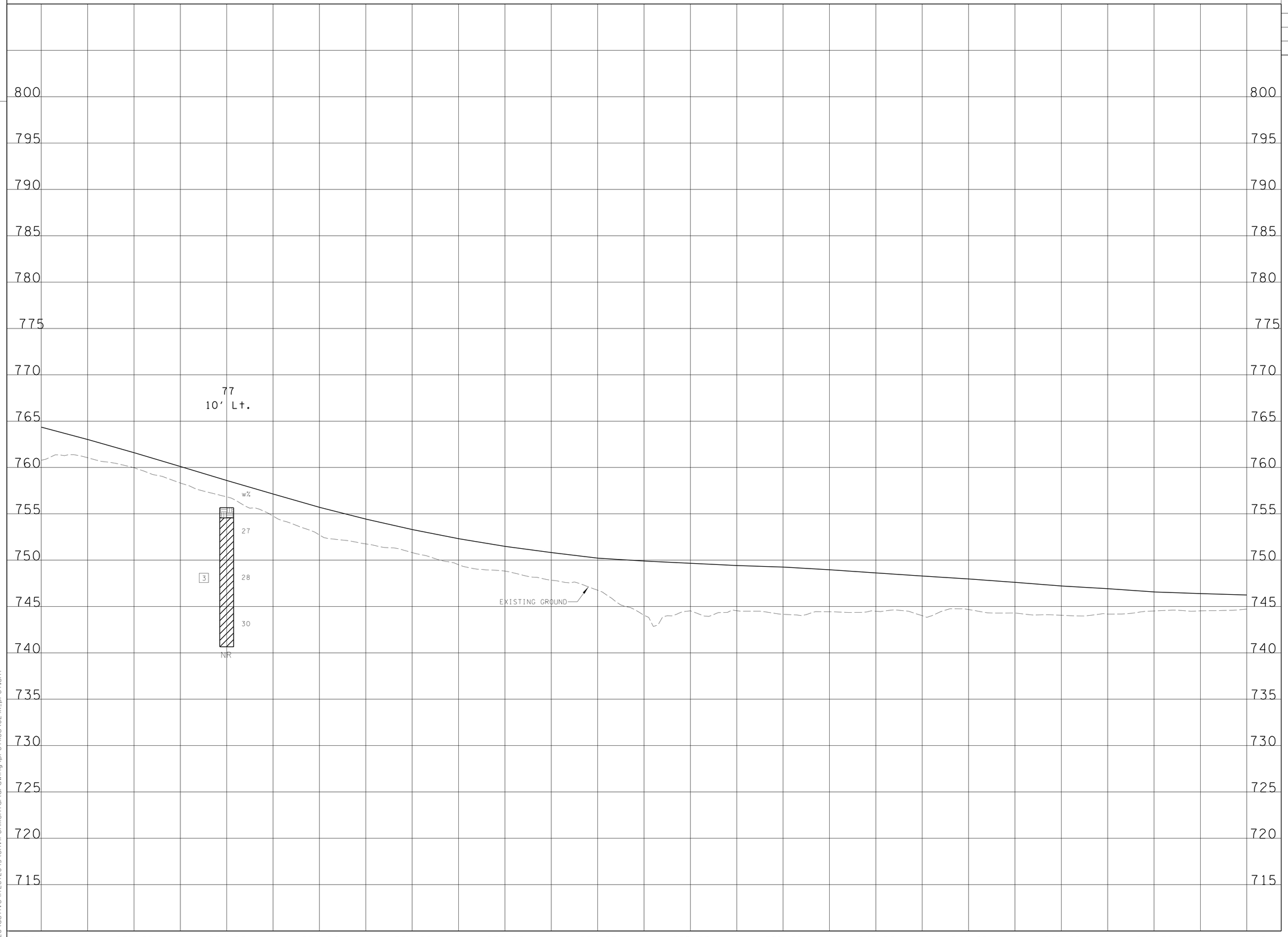
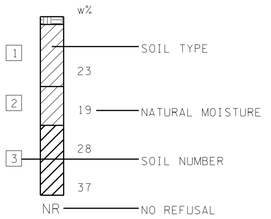
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BG



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

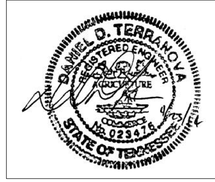


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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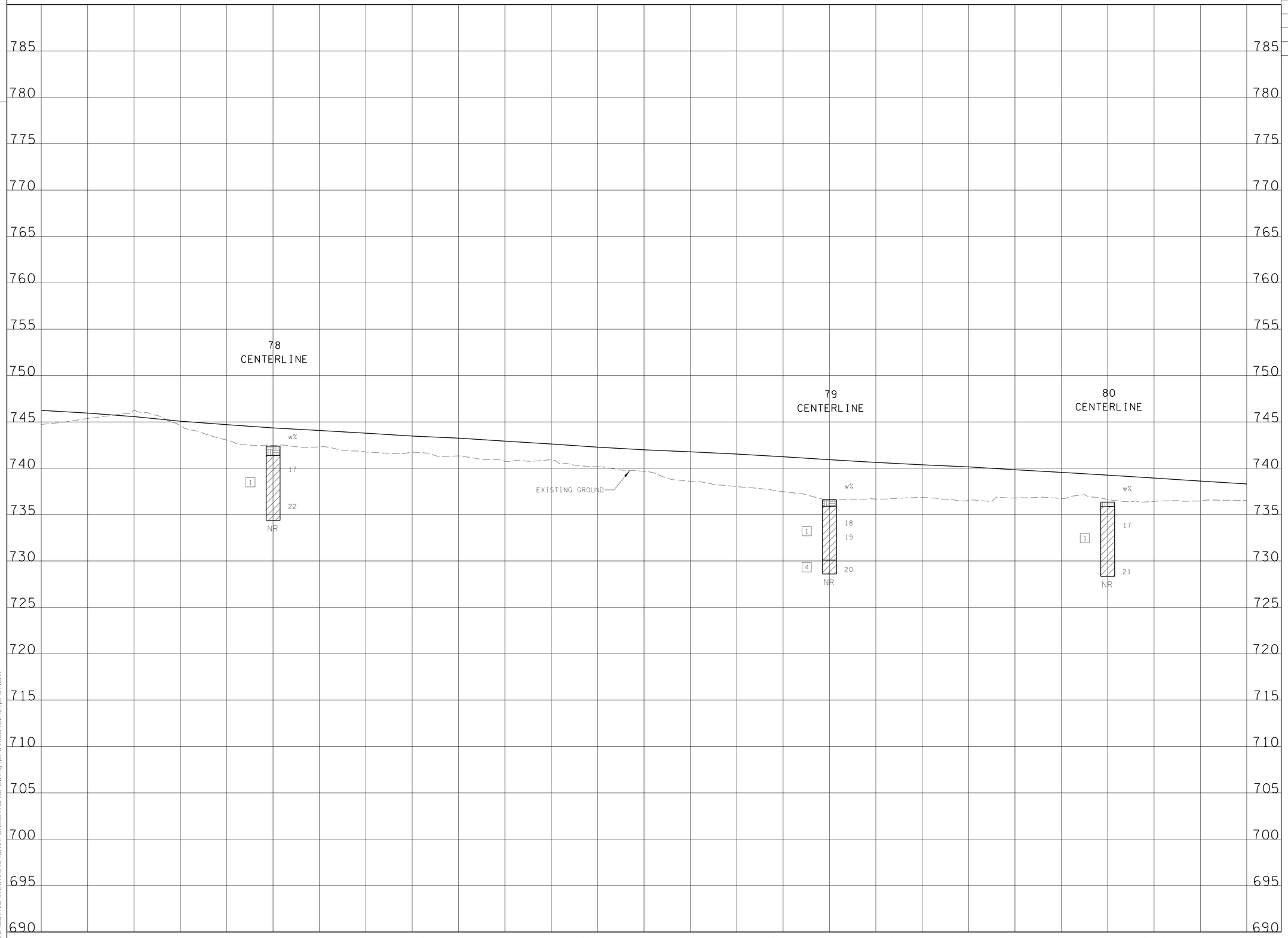
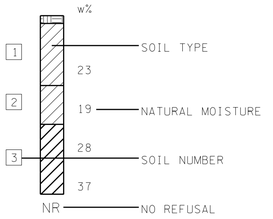
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BH



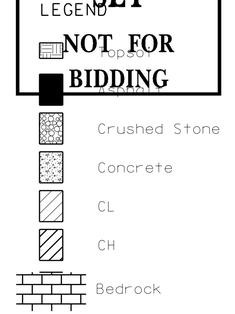
BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET



UNOFFICIAL SET
NOT FOR BIDDING

LEGEND



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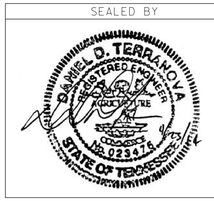

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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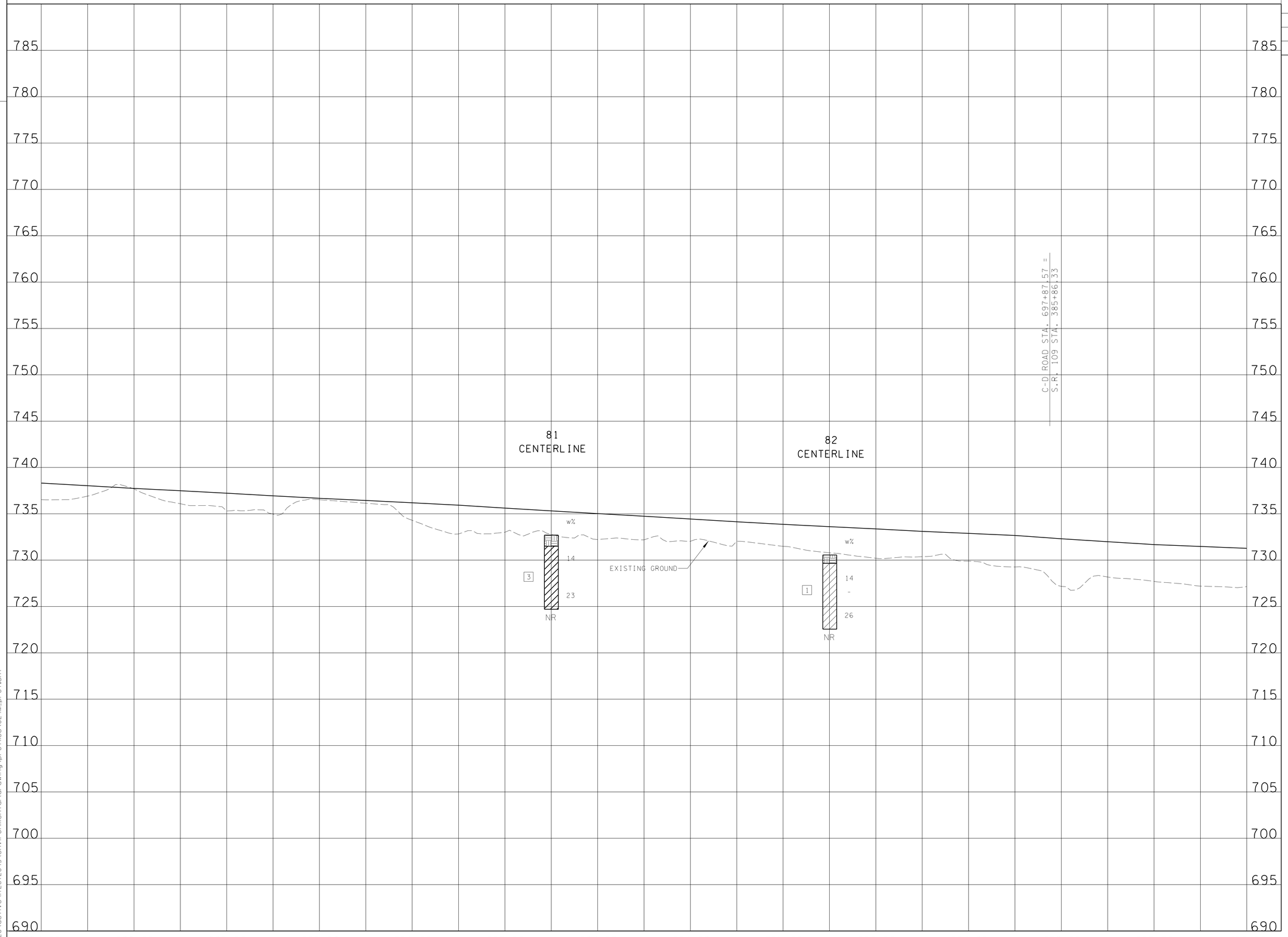
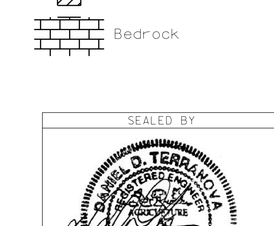
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BI



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

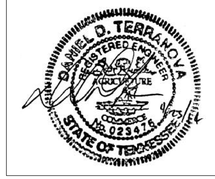


LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET NOT FOR BIDDING

SEALED BY



C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BJ

785 780 775 770 765 760 755 750 745 740 735 730 725 720 715 710 705 700 695 690

83
CENTERLINE

84
2' Rt.

85
12' Rt.

EXISTING GROUND

w%
3 14 24 NR

w%
3 16 28 NR

w%
1 19 21 NR

700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00 712+00 713+00

BORING LOG LEGEND

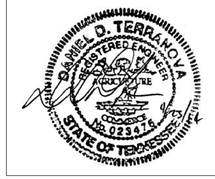
1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
3
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY



C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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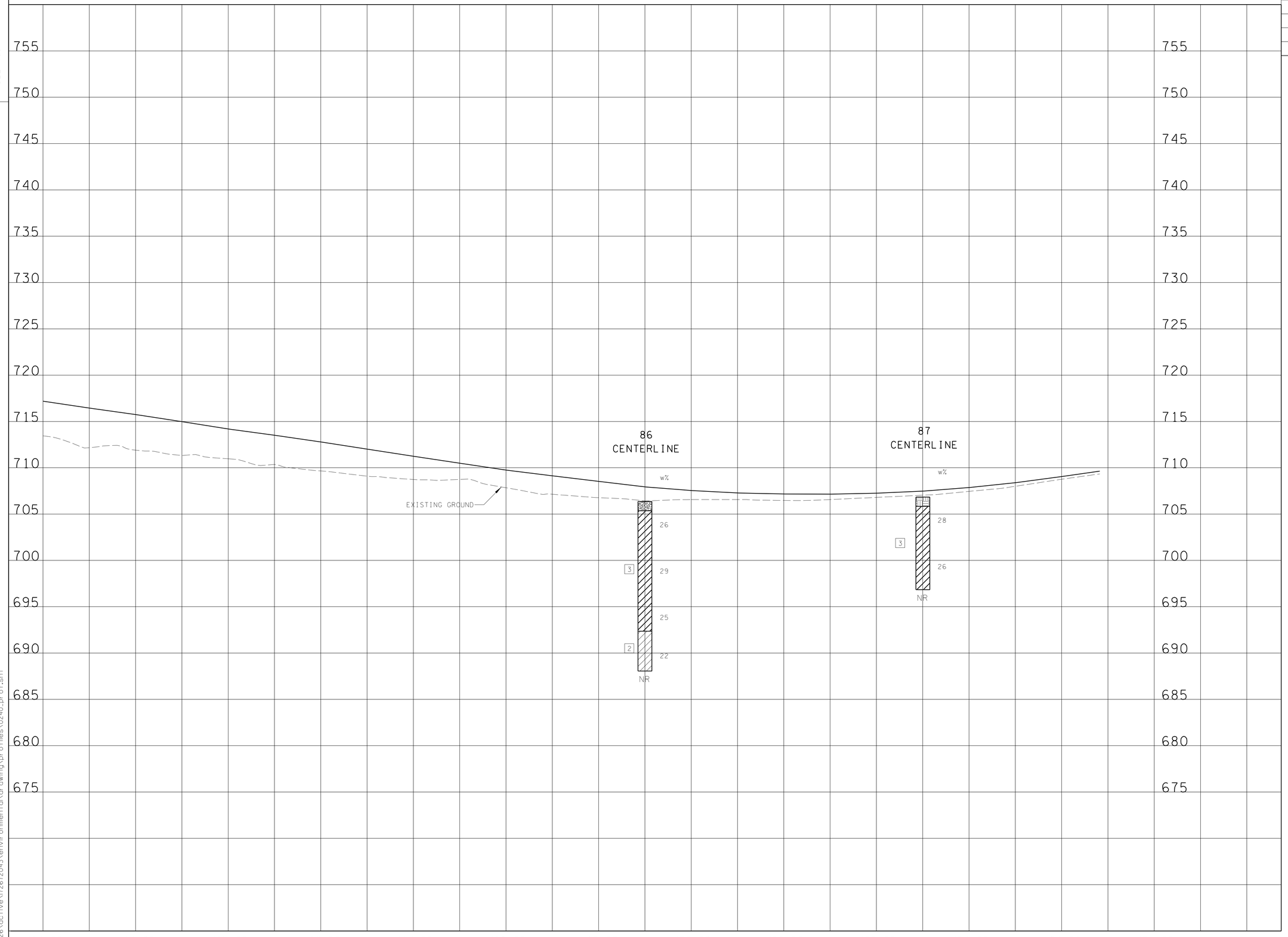
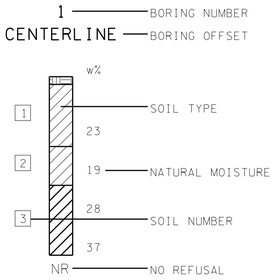
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BK

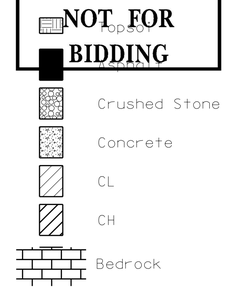


BORING LOG LEGEND



UNOFFICIAL SET
NOT FOR BIDDING

LEGEND



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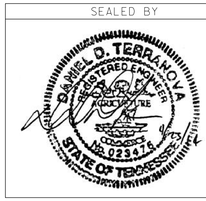

C-D ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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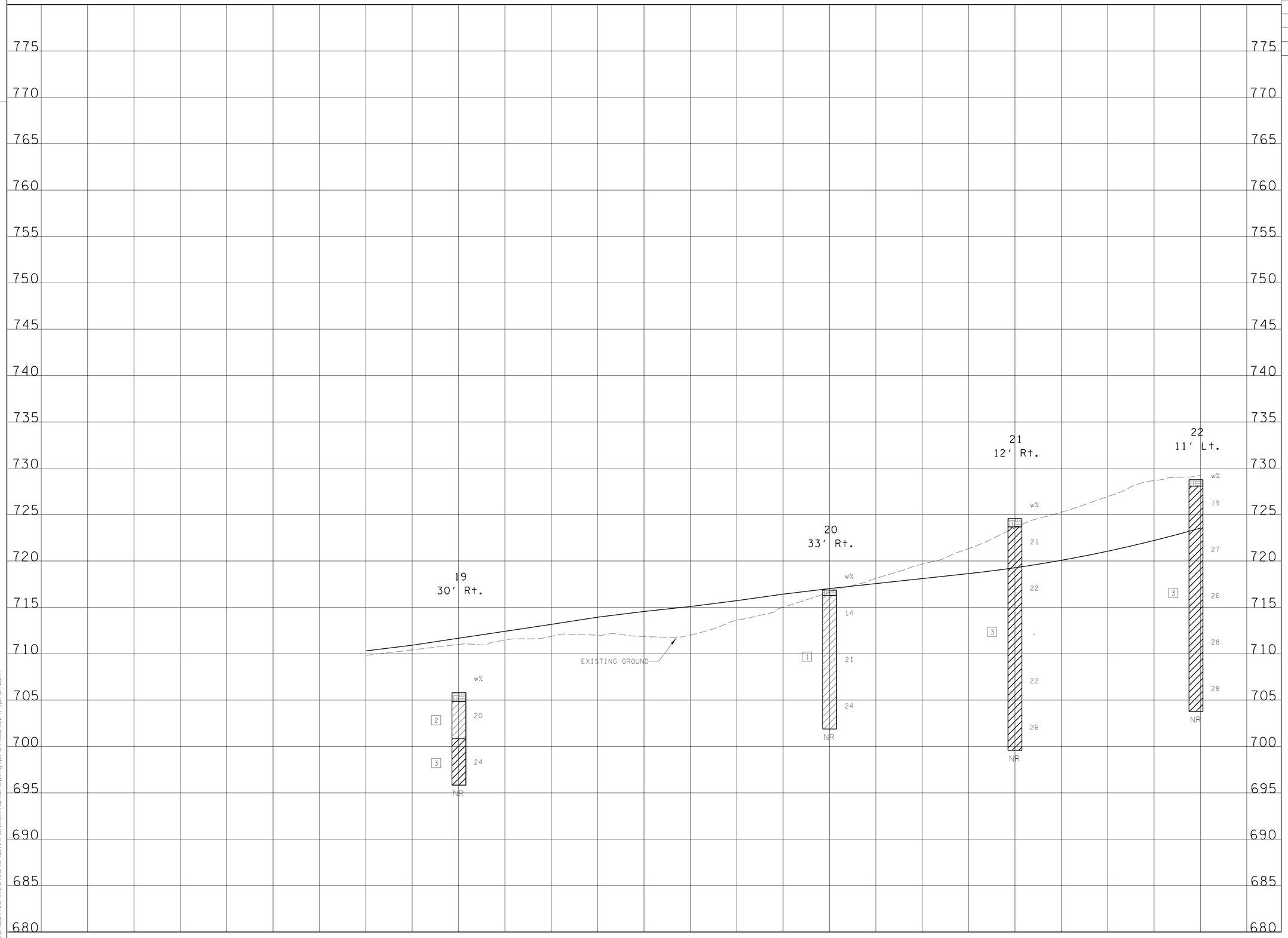
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BL



BORING LOG LEGEND

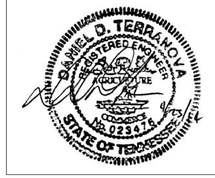
1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
3
28 — SOIL NUMBER
37
NR — NO REFUSAL

LEGEND
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



RAMP A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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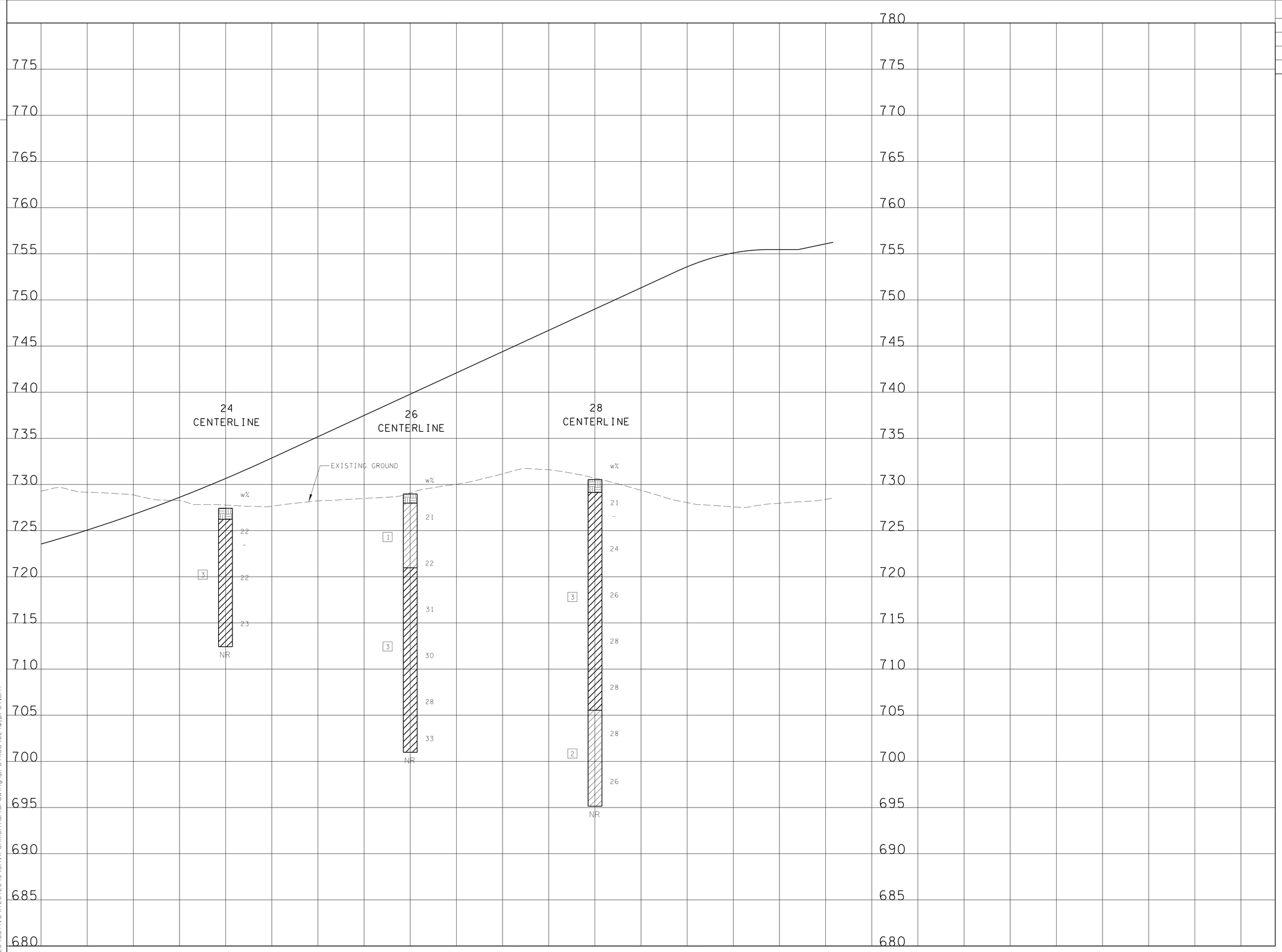
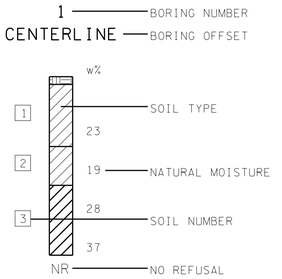
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BM



BORING LOG LEGEND

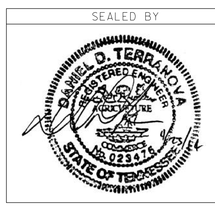


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



RAMP A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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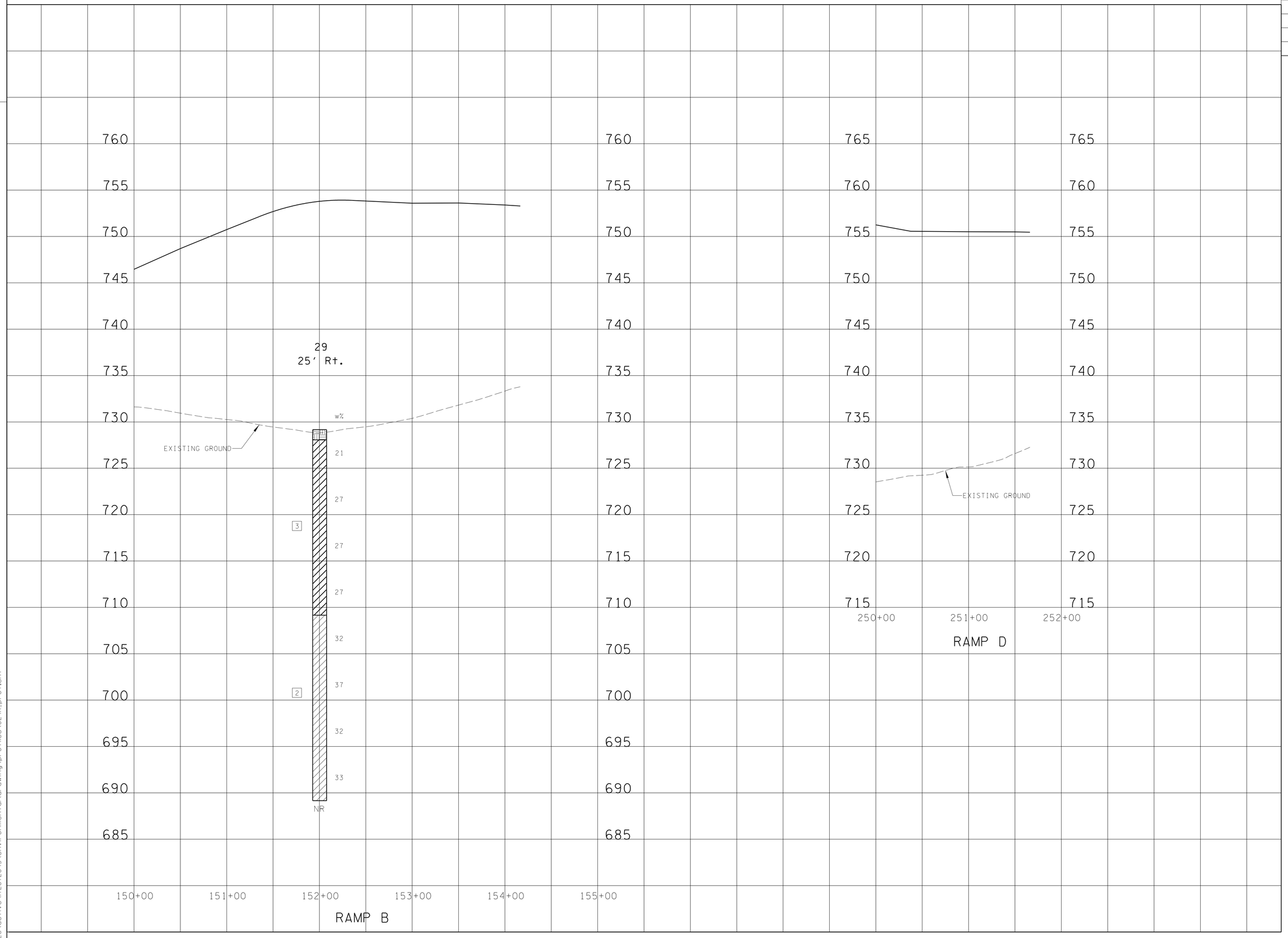
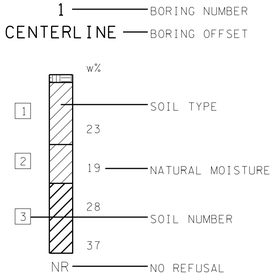
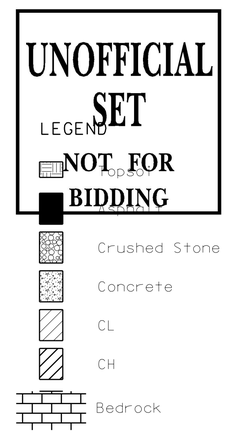
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BN



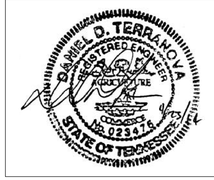
BORING LOG LEGEND





UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



RAMPS B & D

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

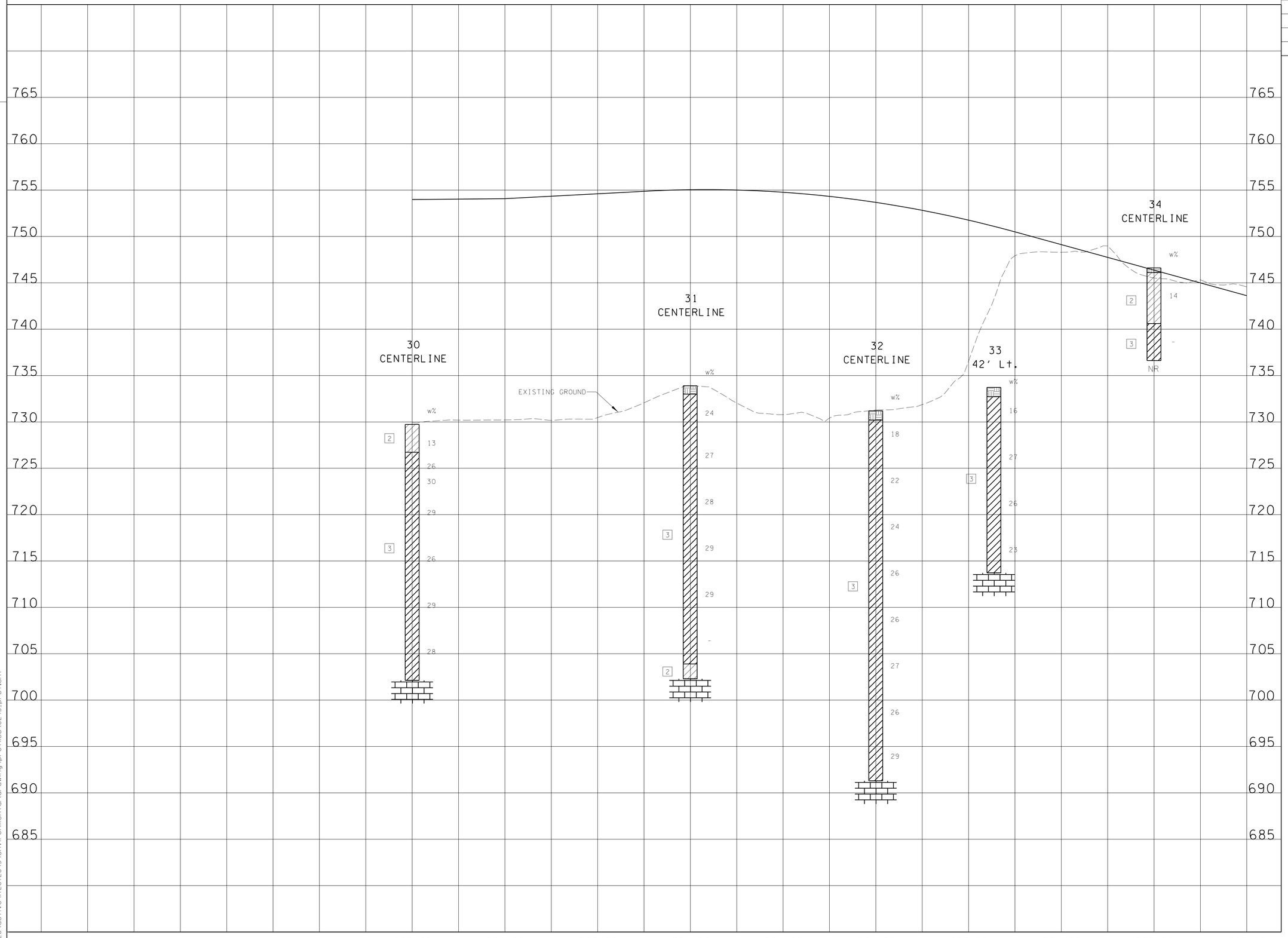
PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
V:\1726\active\172612043\environmental\drawing\profiles\024R_prof.sht

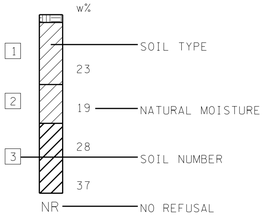
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	13880



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

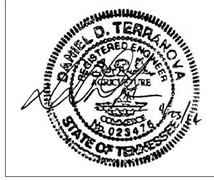


LEGEND

- Topsoil
- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



RAMP C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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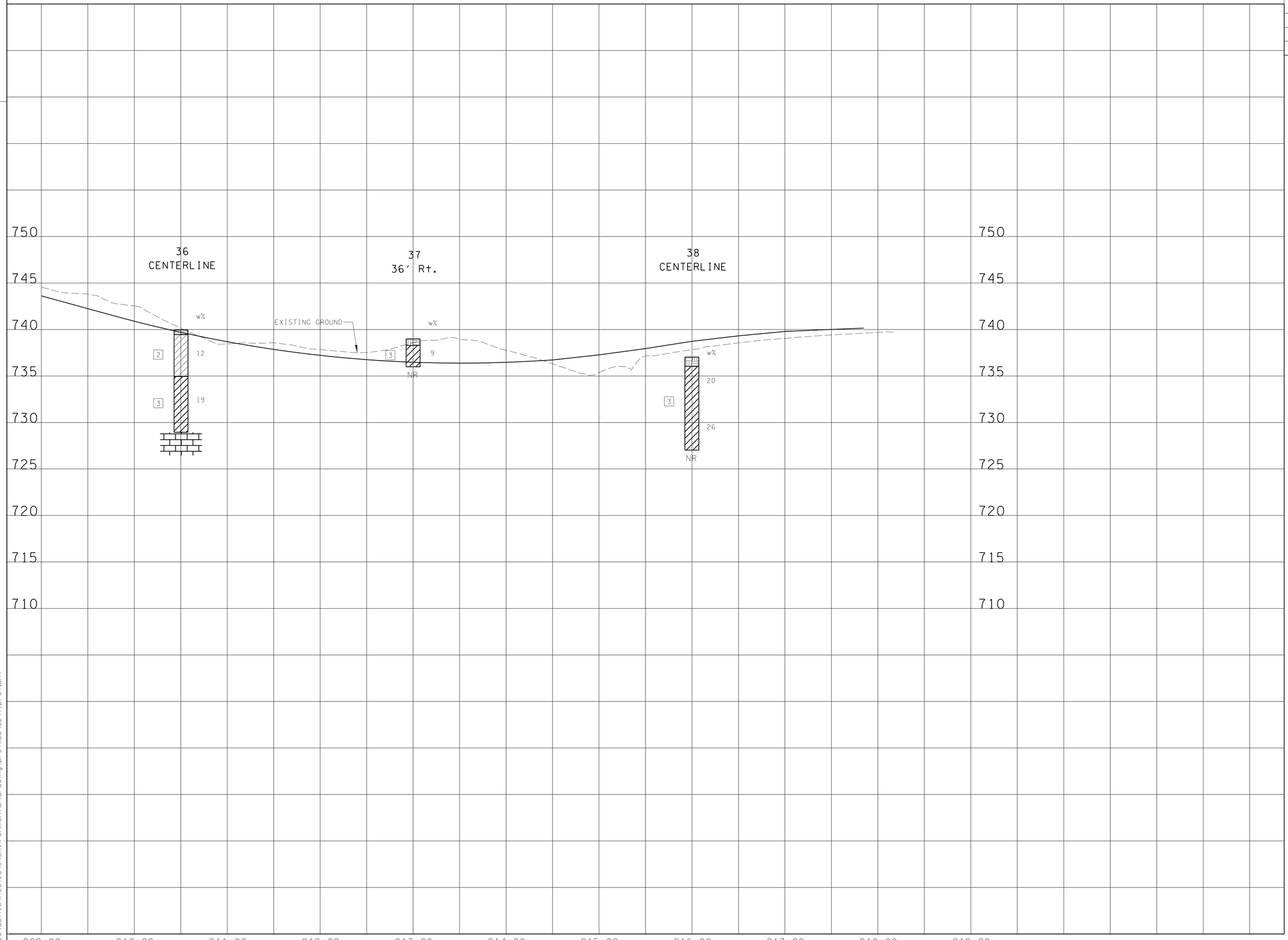
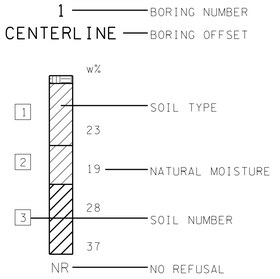
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BP



BORING LOG LEGEND

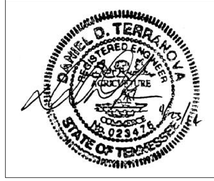


LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



RAMP C

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	13880

750 745 740 735 730 725 720 715 710 705 700 695 690 685 680 675 670 665 660 655

39
CENTERLINE

w%
1 20
21
NR

40
CENTERLINE

w%
1 15
20
21
22
NR

41
11′ Lt.

w%
2 8
20
3 21
20
NR

42
7′ Rt.

w%
18
17
19
30
20
20
24
2 19
23
23
32
25
25
NR

43
2′ Lt.

w%
23
23
3 19
29

44
64′ Lt.

w%
16
17
2 -
16
-
18
-
19
1 21
22
NR

300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00

BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
3
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Fill
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

DANIEL D. TERRAKOVA
REGISTERED ENGINEER
No. 023416
STATE OF TENNESSEE

RAMP E

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

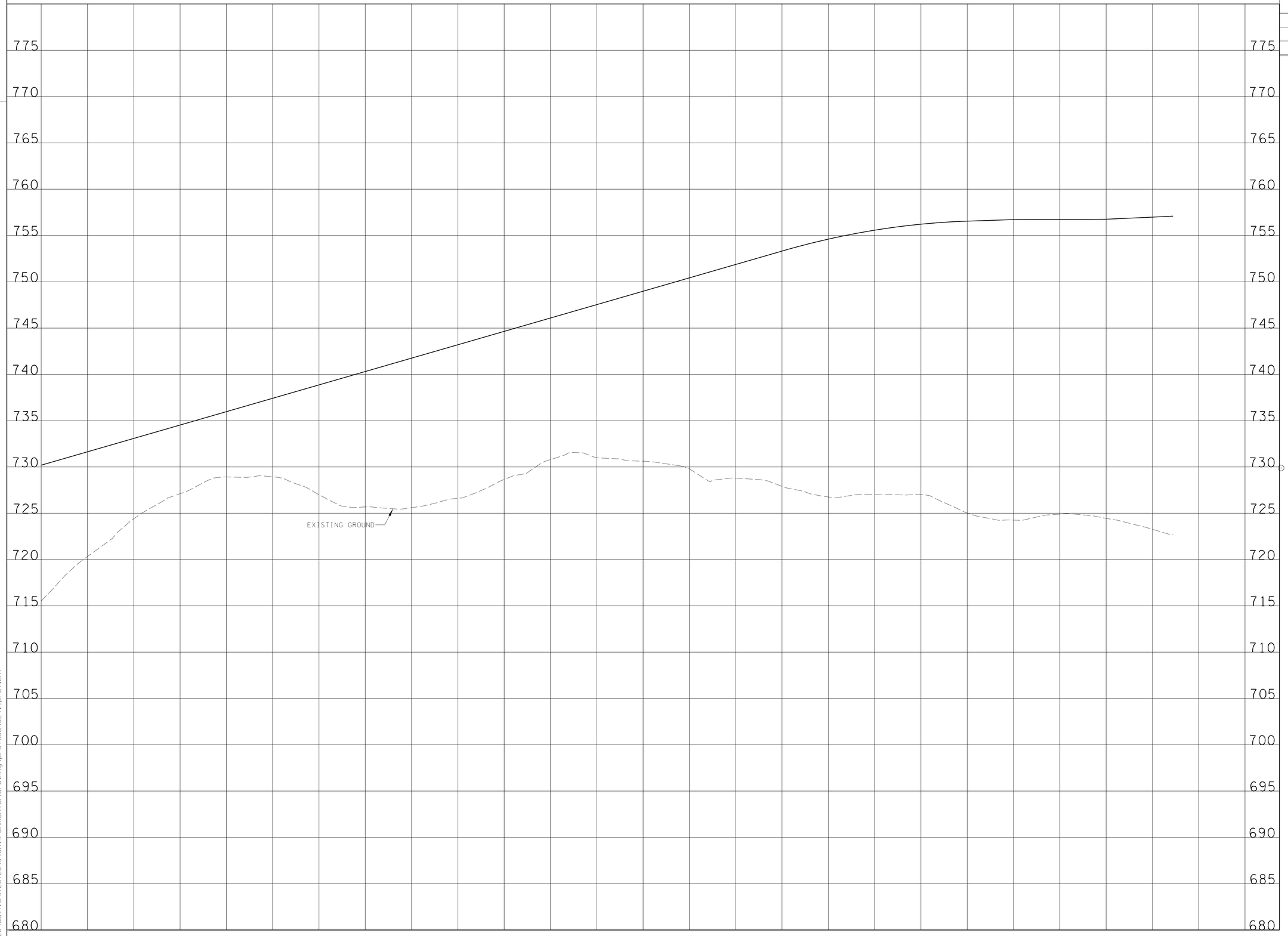
PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50′ HORIZ.
1"= 5′ VERT.

5/1/2014
V:\726\active\172672043\environmental\drawing\profiles\024U_prof.sht

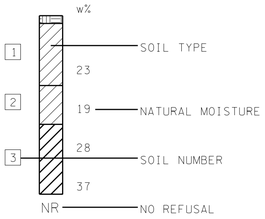
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BR



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

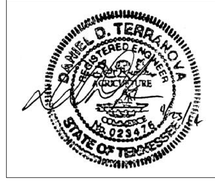


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



RAMP E

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

Plotted: 5/1/2014
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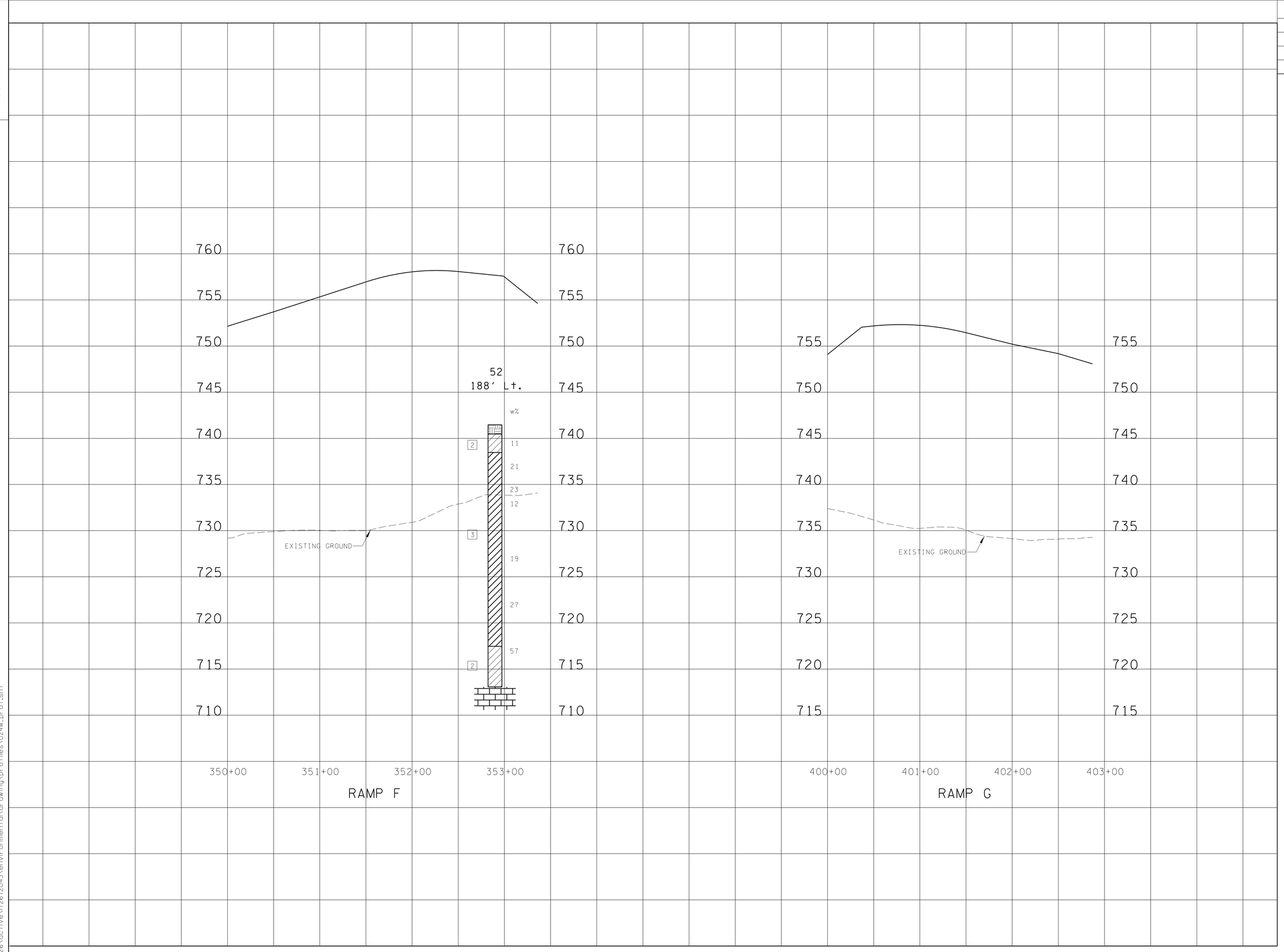
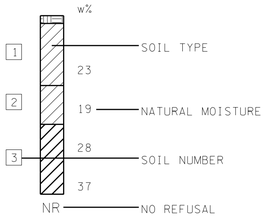
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BS



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

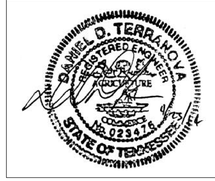


LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



RAMPS F & G

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

Plotted: 5/1/2014
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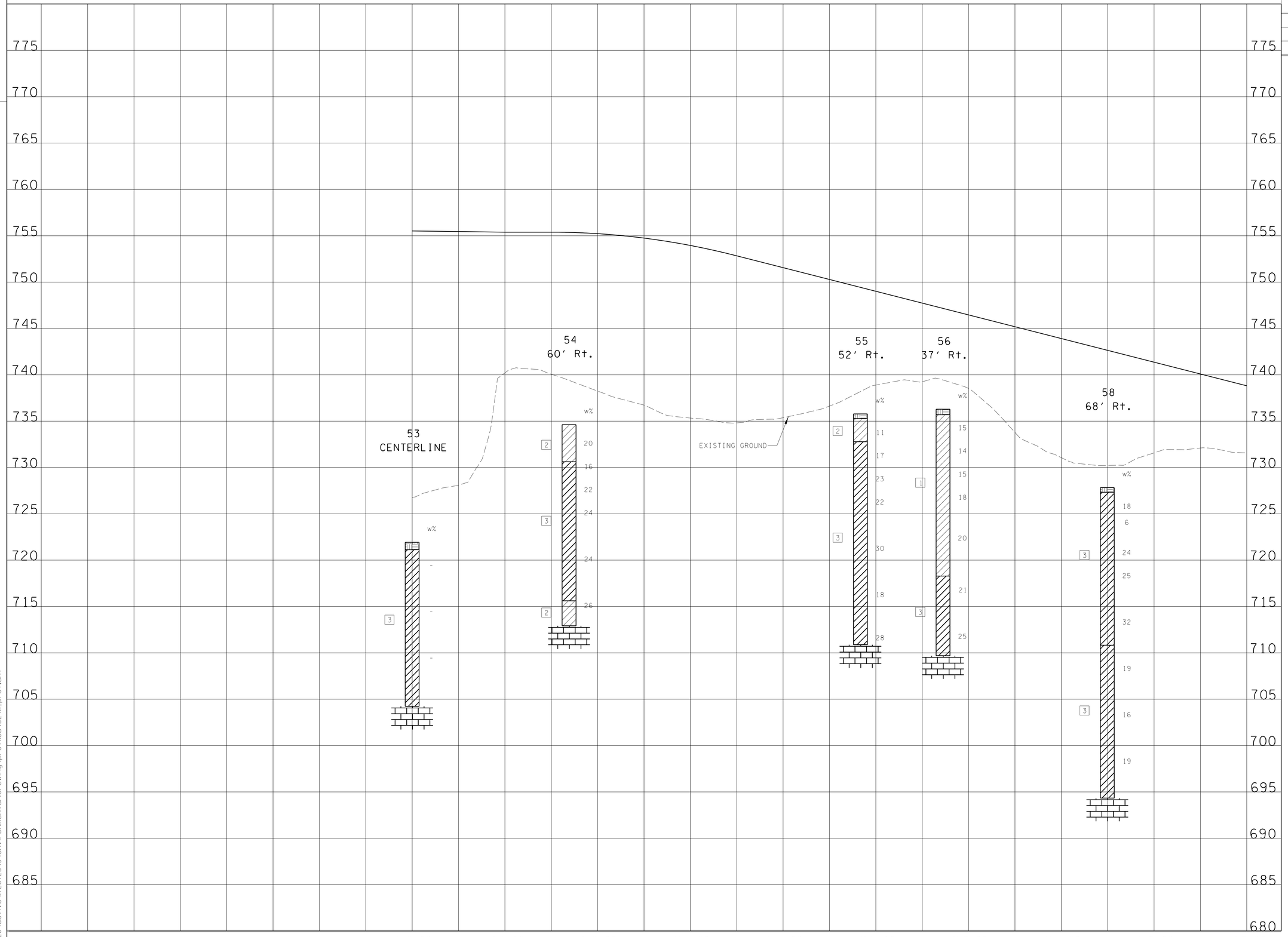
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BT



BORING LOG LEGEND

1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
3
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY

RAMP H

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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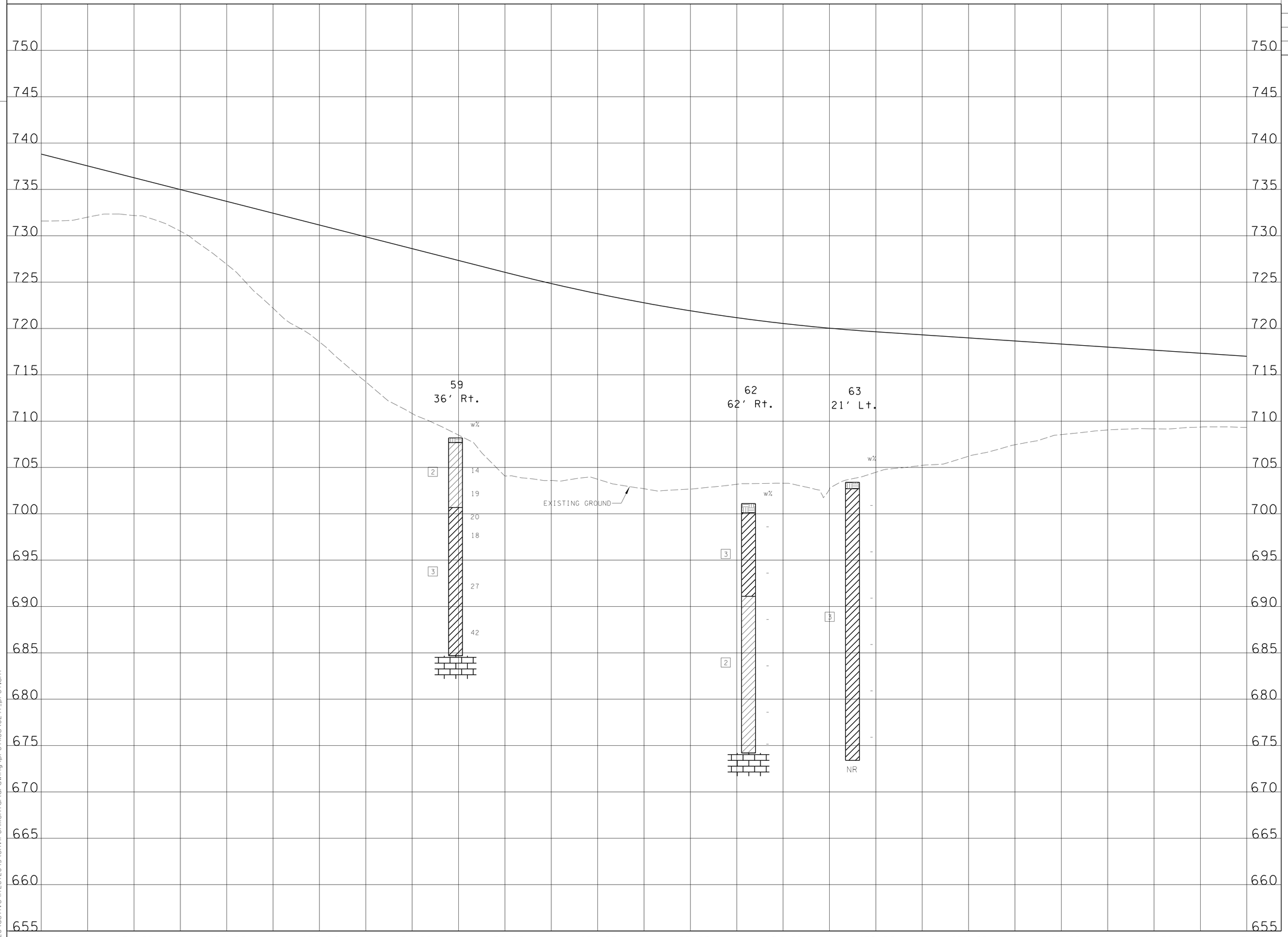
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BU



BORING LOG LEGEND

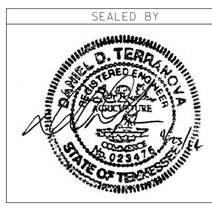
1 — BORING NUMBER
CENTERLINE — BORING OFFSET

w%
1 — SOIL TYPE
23
2
19 — NATURAL MOISTURE
3
28 — SOIL NUMBER
37
NR — NO REFUSAL

UNOFFICIAL SET
NOT FOR BIDDING

LEGEND
Topsoil
Crushed Stone
Concrete
CL
CH
Bedrock

SEALED BY



RAMP H

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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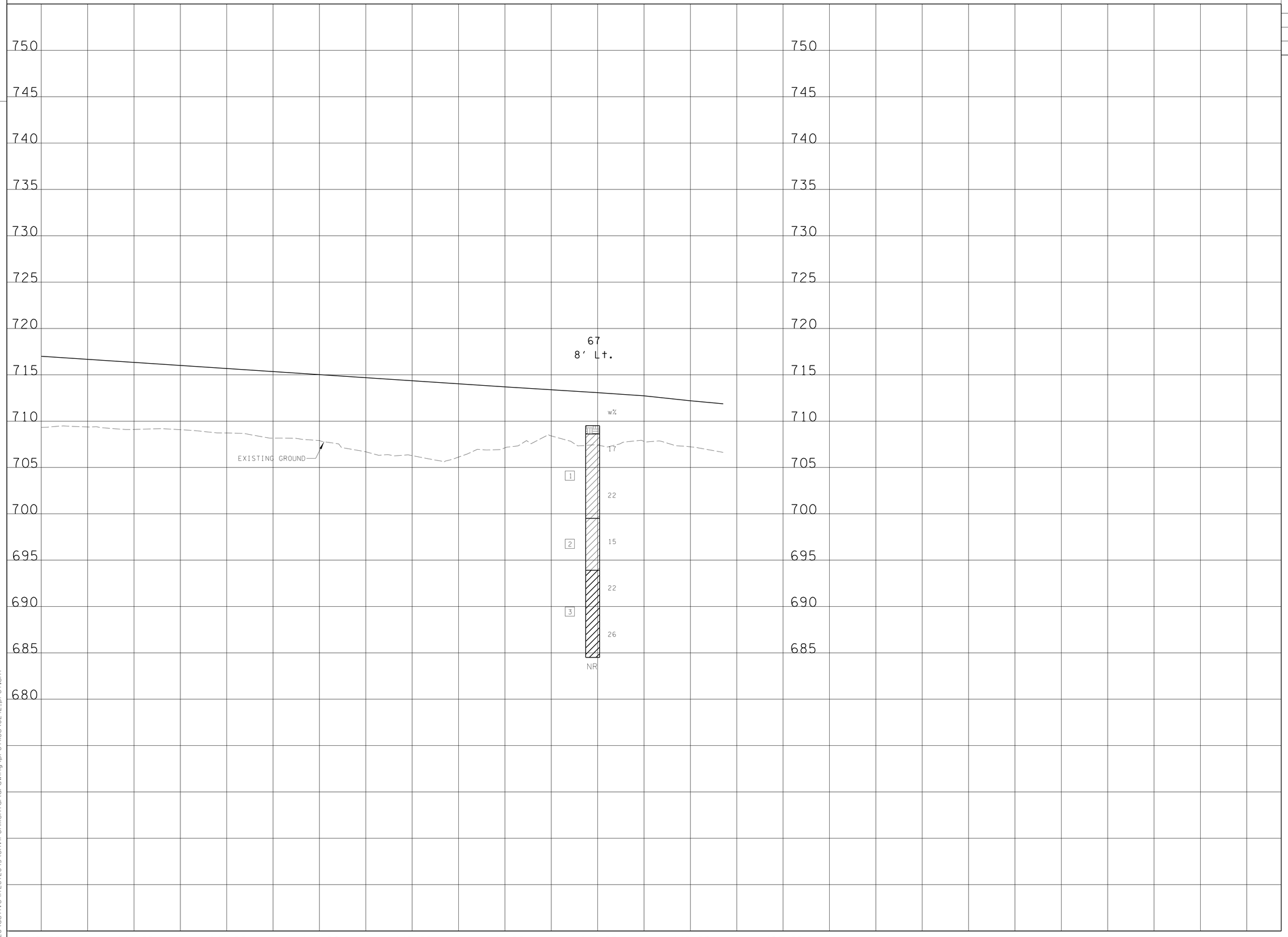
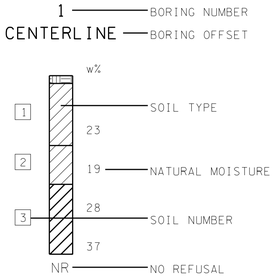
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP/HPP/NH-65-3(113)	138BV



BORING LOG LEGEND

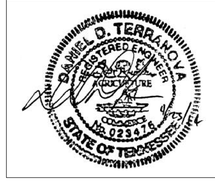


UNOFFICIAL SET
NOT FOR BIDDING

LEGEND

- Crushed Stone
- Concrete
- CL
- CH
- Bedrock

SEALED BY



RAMP H

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014
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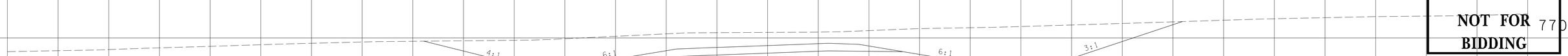
TYPE	YEAR	PROJECT NO.	SHEET NO.
			138W

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPICAL CUT SECTION SLOPE: 4:1		
Road/Ramp CL	Begin Station	End Station
I-65	1814+00.00	1816+50.00
I-65	1843+00.00	1843+00.00
I-65	1844+00.00	1847+00.00
I-65	1849+50.00	1850+50.00
I-65	1853+00.00	1856+50.00
I-65	1866+00.00	1867+00.00
I-65	1868+50.00	1873+00.00
I-65	1895+50.00	1898+00.00
S.R. 109	309+00.00	314+00.00
S.R. 109	317+50.00	328+00.00
S.R. 109	333+50.00	336+50.00
S.R. 109	403+00.00	409+00.00
S.R. 109	412+50.00	414+50.00
OLD S.R. 109 Tie	86+50.00	91+00.00
TGT TIE	10+50.00	14+50.00
LAKE SPRINGS RD	71+50.00	73+50.00
LAKE TIE TO FRED	30+50.00	32+00.00
EUBANKS LT	27+00.00	29+00.00
RAMP A	111+00.00	114+50.00
RAMP C	208.00+00	214+50.00
RAMP I	502+50.00	502+50.00



86+50
(SR-109 TIE)

TYPICAL SECTION FOR 4:1 CUT SLOPE

NOTE:
This sheet represents geotechnical data and recommendations. Refer to project plans, profiles and cross sections for final alignment and grade.

UNOFFICIAL SET
NOT FOR BIDDING

DANIEL O. TERRANOVA
REGISTERED ENGINEER
No. 023416
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

STA. 86+50

SCALE: 1"=10'

5/1/2014
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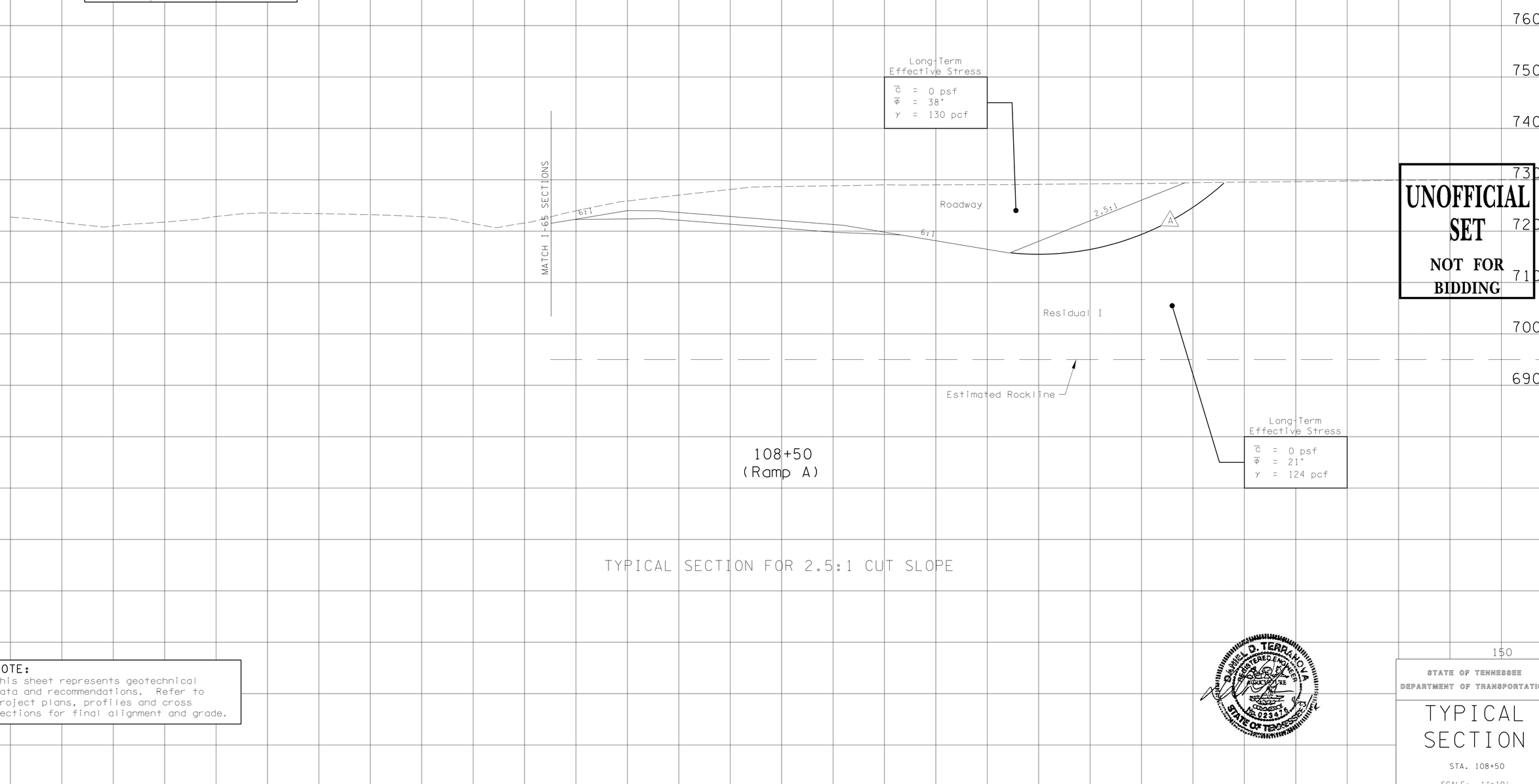
TYPE	YEAR	PROJECT NO.	SHEET NO.
			138BX

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPICAL CUT SECTION SLOPE: 2.5:1		
Road/Ramp CL	Begin Station	End Station
RAMP A	107+00.00	107+00.00
RAMP A	110+50.00	110+50.00
RAMP I	503+00.00	503+00.00

SUMMARY OF SLOPE STABILITY ANALYSES				
Failure Surface	Slope Geometry	Failure Mode	Analysis Condition	Factor of Safety
A	2.5:1	Rotational	Long-Term	1.3



TYPICAL SECTION FOR 2.5:1 CUT SLOPE

NOTE:
This sheet represents geotechnical data and recommendations. Refer to project plans, profiles and cross sections for final alignment and grade.

UNOFFICIAL SET
NOT FOR BIDDING

DANIEL D. TERRANOVA
REGISTERED ENGINEER
CERTIFICATE
No. 023474
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

STA. 108+50

SCALE: 1"=10'

5/1/2014
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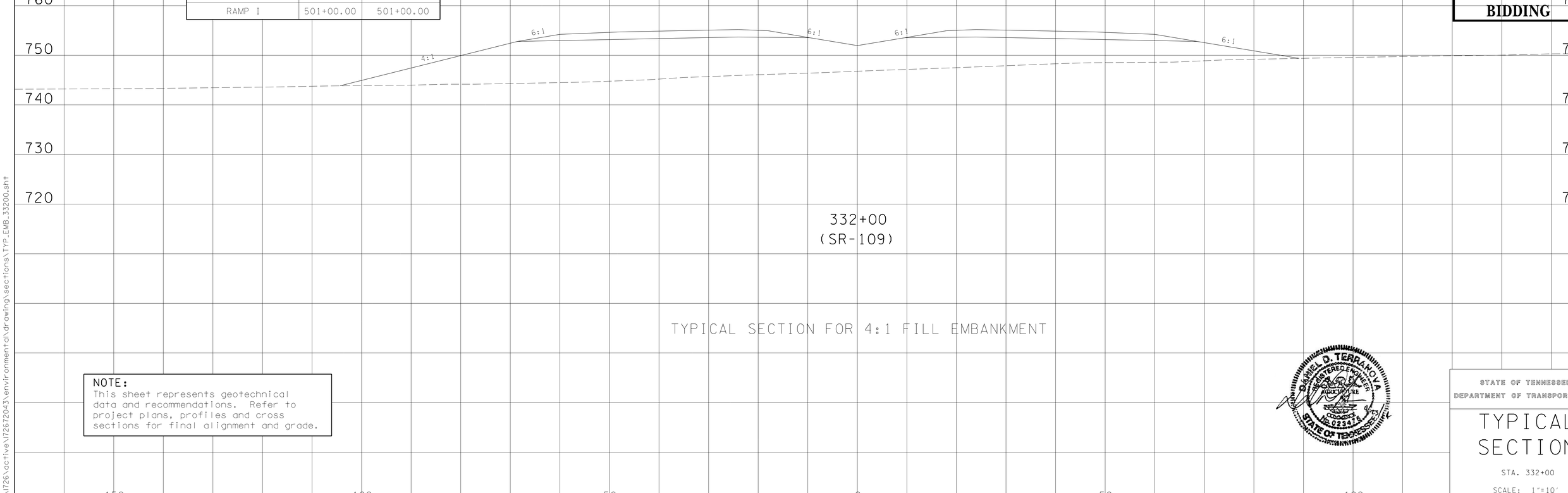
TYPE	YEAR	PROJECT NO.	SHEET NO.
			138BY

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO. ——

TYPICAL FILL SECTION SLOPE: 4:1		
Road/Ramp CL	Begin Station	End Station
I-65	1821+50.00	1833+50.00
I-65	1838+50.00	1841+00.00
I-65	1851+50.00	1852+50.00
I-65	1866+00.00	1868+00.00
I-65	1866+00.00	1867+00.00
I-65	1880+00.00	1884+00.00
I-65	1889+50.00	1890+50.00
I-65	1892+00.00	1893+00.00
S.R 109	328+00.00	332+50.00
S.R 109	338+00.00	346+50.00
S.R 109	348+50.00	348+50.00
S.R 109	351+00.00	351+00.00
S.R 109	352+00.00	358+50.00
S.R 109	368+50.00	371+50.00
S.R 109	372+50.00	375+00.00
S.R 109	399+50.00	401+00.00
OLD S.R. 109 Tie	90+00.00	91+00.00
TGT TIE	14+50.00	15+00.00
RAMP A	111+50.00	114+50.00
Ramp B	151+00.00	151+50.00
RAMP C	207+00.00	207+00.00
RAMP E	302+50.00	308+50.00
RAMP E	310+50.00	318+00.00
RAMP F	350+00.00	352+50.00
RAMP G	401+00.00	402+50.00
RAMP H	452+50.00	459+00.00
RAMP H	461+50.00	479+00.00
RAMP I	501+00.00	501+00.00



TYPICAL SECTION FOR 4:1 FILL EMBANKMENT

NOTE:
This sheet represents geotechnical data and recommendations. Refer to project plans, profiles and cross sections for final alignment and grade.

UNOFFICIAL SET
NOT FOR BIDDING

DANIEL D. TERRANOVA
REGISTERED ENGINEER
No. 023476
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

STA. 332+00

SCALE: 1"=10'

5/1/2014
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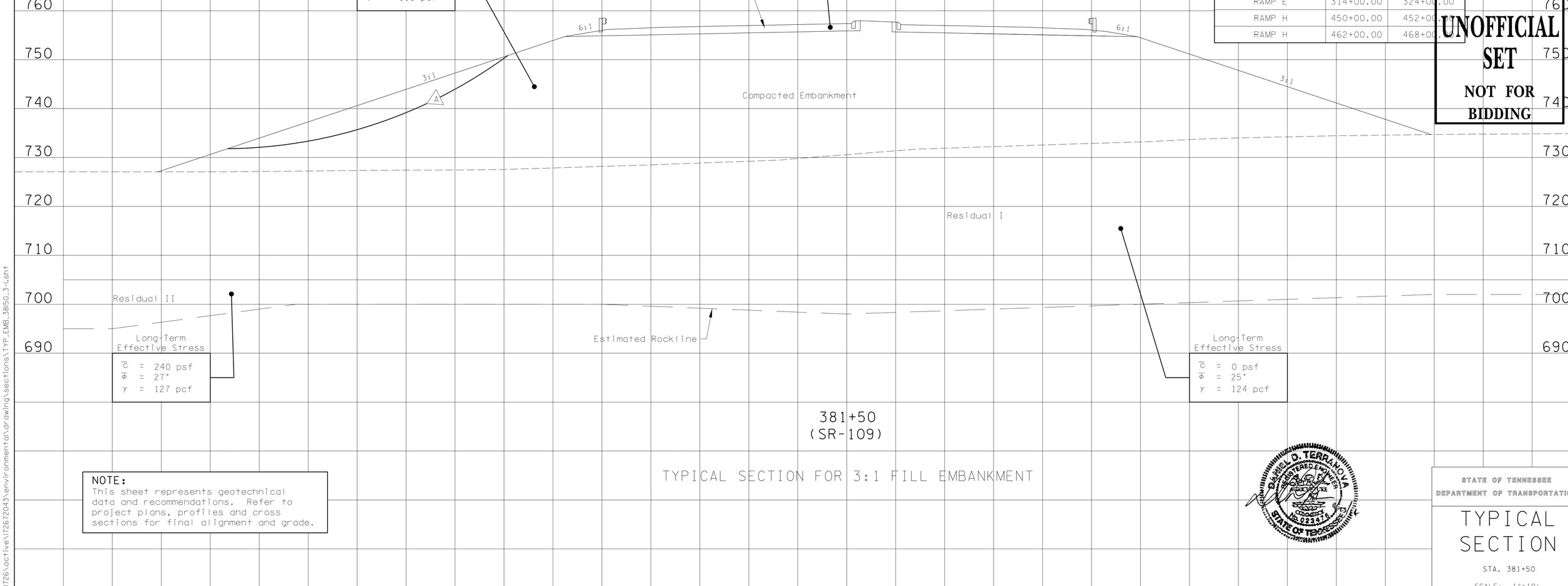
TYPE	YEAR	PROJECT NO.	SHEET NO.
			138BZ

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO. ——

SUMMARY OF SLOPE STABILITY ANALYSES				
Failure Surface	Slope Geometry	Failure Mode	Analysis Condition	Factor of Safety
A	3:1	Rotational	Long-Term	1.5

TYPICAL FILL SECTION SLOPE: 3:1		
Road/Ramp CL	Begin Station	End Station
I-65	1891+00.00	1891+50.00
S.R 109	372+00.00	372+00.00
S.R 109	374+50.00	378+00.00
S.R 109	380+50.00	392+00.00
S.R 109	392+50.00	393+50.00
S.R 109	394+00.00	399+50.00
TGT TIE	11+50.00	14+00.00
S.R. 49 LT	1123+00.00	1131+50.00
S.R. 49 RT	1133+00.00	1138+00.00
S.R. 49 RT	1144+00.00	1154+50.00
FRED WHITE TIE	99+50.00	99+50.00
LAKE SPRINGS RD	71+00.00	75+00.00
LAKE TIE TO FRED	80+50.00	82+00.00
RAMP A	114+50.00	115+50.00
RAMP B	152+50.00	154+00.00
RAMP C	200.00+00	206+50.00
RAMP D	250+00.00	251+50.00
RAMP E	305+00.00	312+50.00
RAMP E	314+00.00	324+00.00
RAMP H	450+00.00	452+00.00
RAMP H	462+00.00	468+00.00



UNOFFICIAL SET

NOT FOR BIDDING

NOTE:
This sheet represents geotechnical data and recommendations. Refer to project plans, profiles and cross sections for final alignment and grade.

TYPICAL SECTION FOR 3:1 FILL EMBANKMENT

DANIEL D. TERPANOVA
REGISTERED ENGINEER
No. 023476
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

STA. 381+50

SCALE: 1"=10'

5/1/2014
V:\726\active\726720\43\environmental\drawing\sections\TYP_EMB_3850_3-1.sht

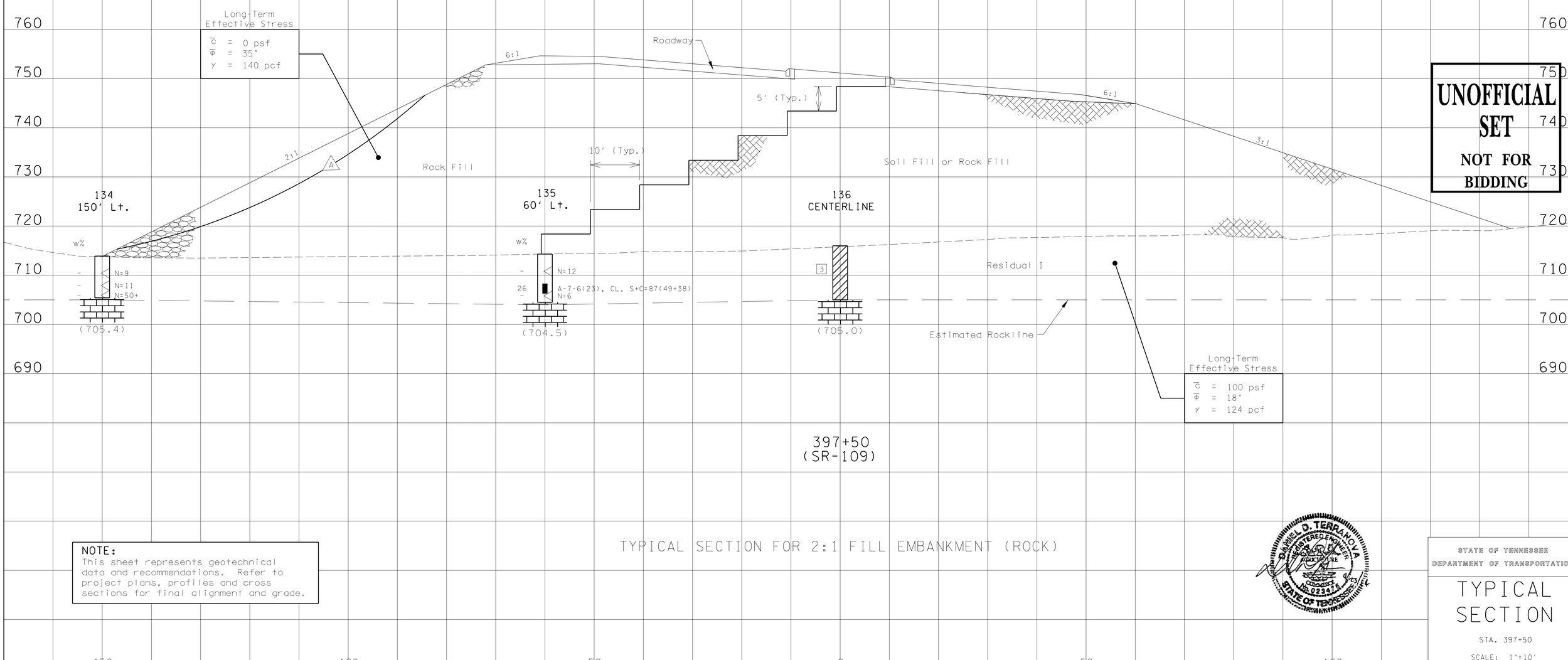
TYPE	YEAR	PROJECT NO.	SHEET NO.
			138CA

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO. ——

SUMMARY OF SLOPE STABILITY ANALYSES				
Failure Surface	Slope Geometry	Failure Mode	Analysis Condition	Factor of Safety
A	2:1	Rotational	Long-Term	1.5

TYPICAL FILL SECTION SLOPE: 2:1 (ROCK)		
Road/Ramp CL	Begin Station	End Station
Ramp A	116+00.00	116+50.00
LAKE TIE TO OLD S DETOUR	31+50.00	33+50.00



TYPICAL SECTION FOR 2:1 FILL EMBANKMENT (ROCK)

NOTE:
This sheet represents geotechnical data and recommendations. Refer to project plans, profiles and cross sections for final alignment and grade.

UNOFFICIAL SET
NOT FOR BIDDING

DANIEL D. TERRANOVA
REGISTERED ENGINEER
No. 023476
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

STA. 397+50

SCALE: 1"=10'

5/1/2014
V:\1726\active\172672043\environmental\drawing\sections\TYP_EMB_39750.2-1.sht

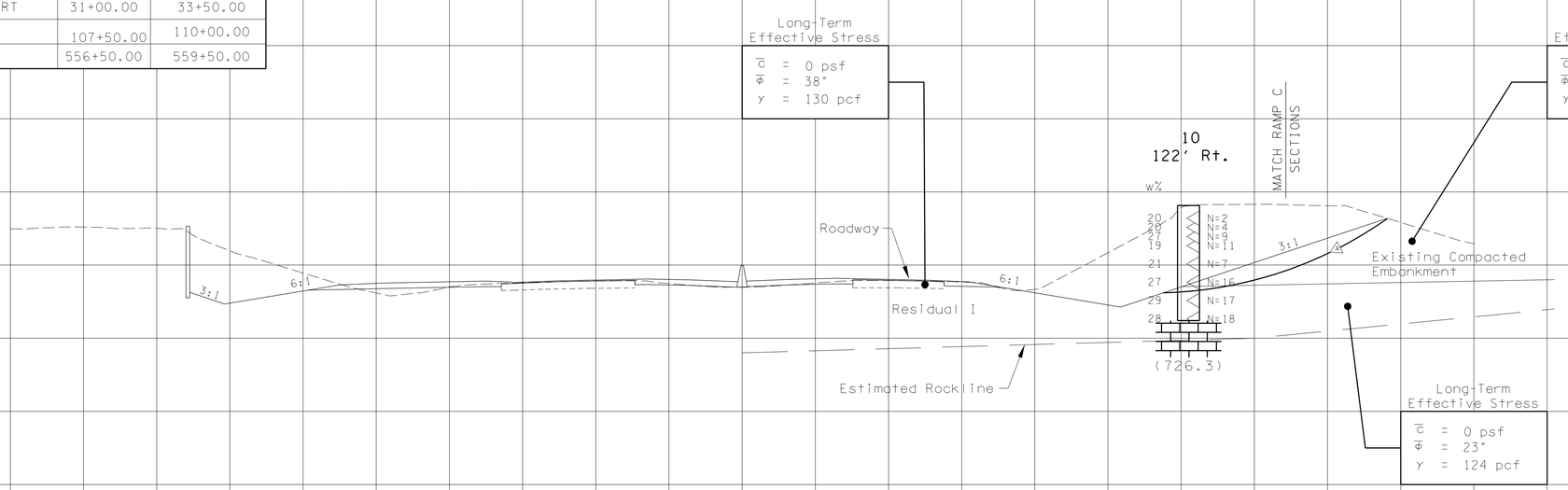
TYPE	YEAR	PROJECT NO.	SHEET NO.
			138CB

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

TYPICAL CUT SECTION SLOPE: 3:1		
Road/Ramp CL	Begin Station	End Station
I-65	1814+00.00	1815+00.00
I-65	1838+50.00	1839+00.00
I-65	1867+50.00	1867+50.00
I-65	1870+50.00	1873+50.00
S.R. 109	313+50.00	320+50.00
S.R. 109	349+00.00	350+50.00
S.R. 109	399+00.00	402+50.00
OLD S.R. 109 Tie	86+00.00	86+50.00
TGT TIE	11+50.00	14+00.00
S.R. 41 LT	1123+00.00	1131+00.00
S.R. 41 RT	1138+00.00	1143+00.00
LAKE SPRINGS RD	71+00.00	77+50.00
LAKE TIE TO FRED	82+50.00	83+50.00
EUBANKS LT	28+50.00	29+00.00
EUBANKS RT	31+00.00	33+50.00
RAMP A	107+50.00	110+00.00
RAMP J	556+50.00	559+50.00

SUMMARY OF SLOPE STABILITY ANALYSES				
Failure Surface	Slope Geometry	Failure Mode	Analysis Condition	Factor of Safety
A	3:1	Rotational	Long-Term	1.3



1857+50
(I-65)

TYPICAL SECTION FOR 3:1 CUT SLOPE (SOIL)

NOTE:
This sheet represents geotechnical data and recommendations. Refer to project plans, profiles and cross sections for final alignment and grade.

UNOFFICIAL SET
NOT FOR BIDDING

DANIEL D. TERRANOVA
REGISTERED ENGINEER
LICENSE
No. 023476
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

STA. 1857+50

SCALE: 1"=20'

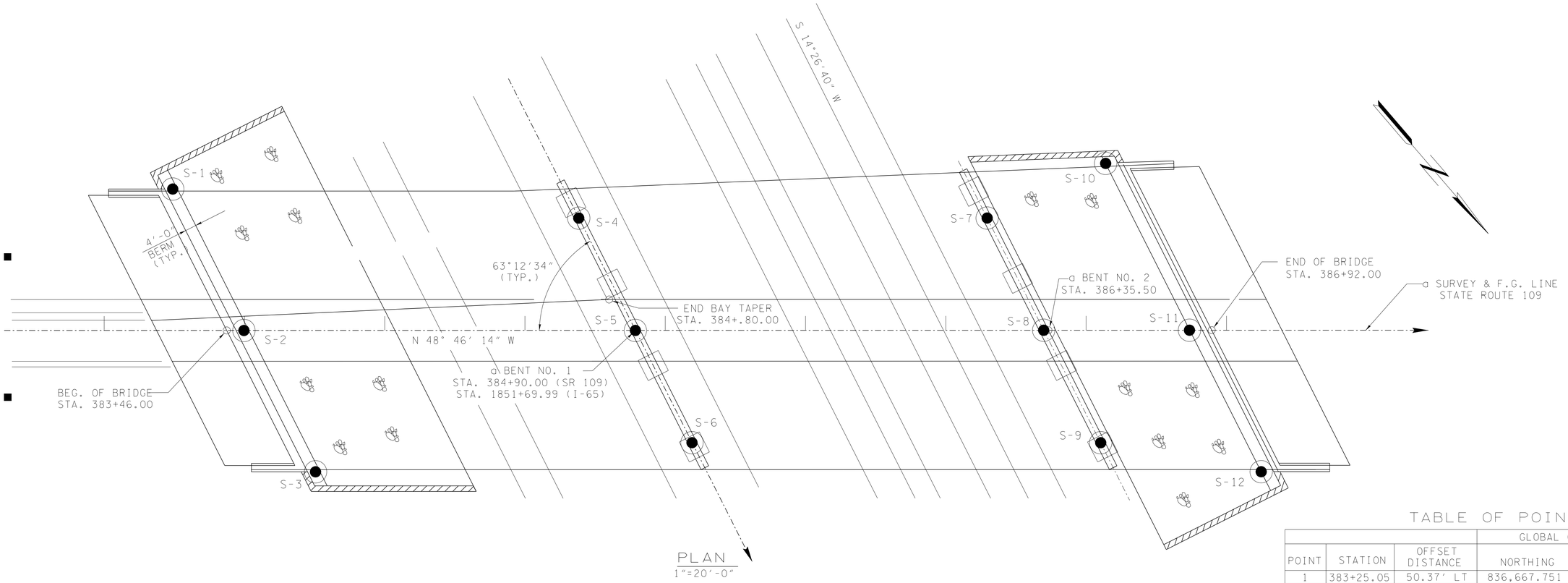
5/1/2014
V:\726\active\726720 43\environmental\drawing\sections\TYP_CUT_185750_3-1.sht

74003-1160-44
CONST. NO. 83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CC

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PLAN
1"=20'-0"

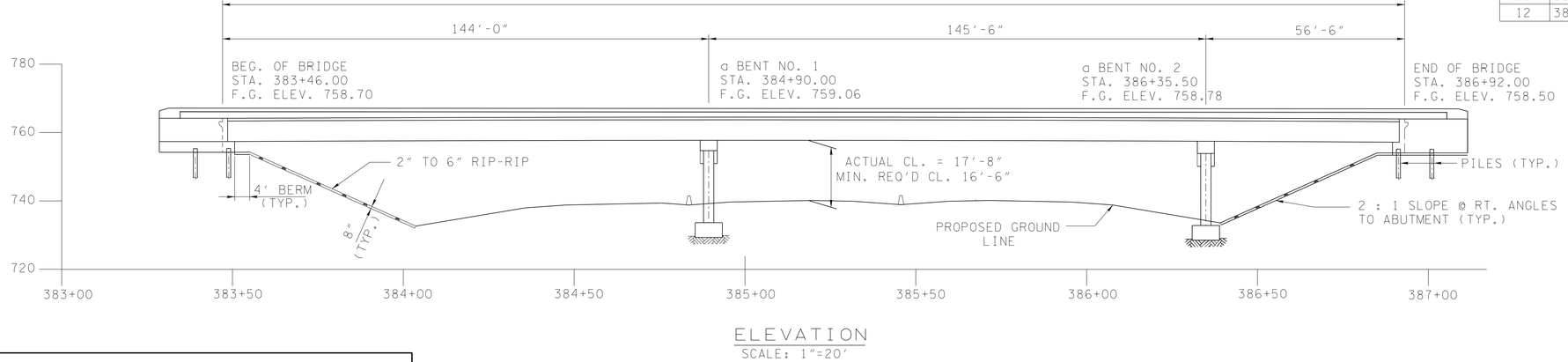
LEGEND:

Soil Sample Boring with Rock Core

TABLE OF POINT LOCATIONS

POINT	STATION	OFFSET DISTANCE	GLOBAL COORINATES NORTHING	GLOBAL COORINATES EASTING	GROUND ELEVATION	ROCK ELEVATION
1	383+25.05	50.37' LT	836,667.751	1,800,190.670	7[illegible]	[illegible]1.7
2	383+50.43	0.02' RT	836,722.74	1,800,204.803	7[illegible]	[illegible]4.0
3	383+75.94	50.39' RT	836,777.066	1,800,218.814	7[illegible]	[illegible]8.5
4	384+69.79	39.99' LT	836,770.945	1,800,088.662	7[illegible]	[illegible]5.1
5	384+89.95	0.03' RT	836,814.335	1,800,099.870	728.61	685.9
6	385+10.14	40.03' RT	836,857.721	1,800,110.052	729.29	695.0
7	386+15.37	39.99' LT	836,866.897	1,799,979.176	720.51	688.5
8	386+35.50	0.01' LT	836,910.237	1,799,990.381	723.25	698.2
9	386+55.81	40.08 RT	836,953.770	1,800,001.525	725.68	700.6
10	386+57.60	59.44' LT	836,880.099	1,799,934.593	725.20	690.6
11	386+87.46	0.01' LT	836,944.476	1,799,951.304	727.02	700.4
12	387+13.02	50.42' RT	836,999.252	1,799,965.315	729.26	701.3

UNOFFICIAL SET
NOT FOR BIDDING



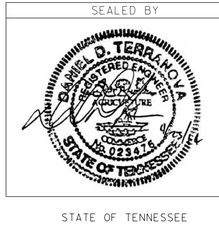
ELEVATION
SCALE: 1"=20'

NOTES:

1. THE INFORMATION FOR THE PLAN AND ELEVATION VIEWS PRESENTED ON THIS DRAWING WAS PROVIDED BY THE TENNESSSEE DEPARTMENT OF TRANSPORTATION ON JUNE 22, 2008.

2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 109
OVER
INTERSTATE 65
BRIDGE ID. NO. 74I00650043
STATION 1851+69.99 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

SHEET 1 OF 5

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

172672043/STRUCTURES/SR109 BRIDGE.DGN

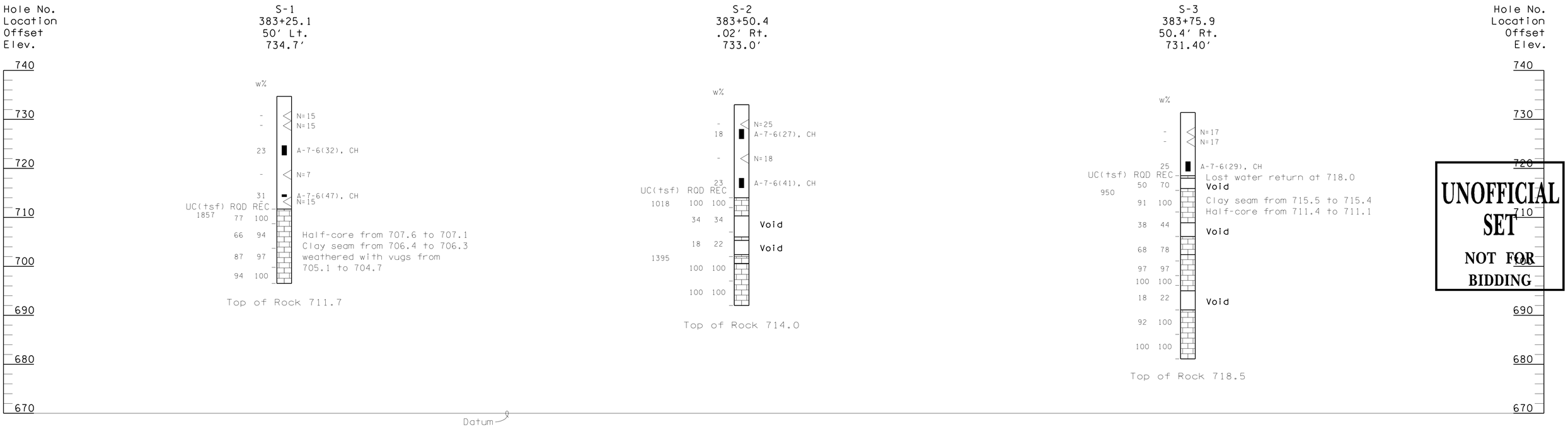
74003-1160-44
CONST. NO. 83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CD

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

ABUTMENT NO.1



UNOFFICIAL SET
NOT FOR BIDDING

LOGS OF BORINGS
SCALE: 1"=10' (VERTICAL ONLY)

NOTES:

1. THE INFORMATION FOR THE PLAN AND ELEVATION VIEWS PRESENTED ON THIS DRAWING WAS PROVIDED BY PALMER ENGINEERING COMPANY ON JUNE 6, 2012.
2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.
3. ALL STANDARD PENETRATION TESTING PERFORMED FOR STRUCTURE BORINGS WERE DONE UTILIZING AN AUTOMATIC HAMMER.

LEGEND

<	Standard Penetration Test Sample
▮	Thin-walled Tube Sample
w%	Moisture Content
N	Standard Penetration Test Blow Count (blows/ft.)
RQD	Rock Quality Designation (%)
REC	Core Recovery (%)
UC(tsf)	Unconfined Compressive Strength (tons/sq. ft.)
NR	No Refusal
R	Refusal - Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.

NOTE:

Bedrock encountered was limestone of the St. Louis Formation, fine to course grained, thin to medium bedded, medium gray with occasional vugs.

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
No. 023478
STATE OF TENNESSEE

SHEET 2 OF 5

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 109
OVER
INTERSTATE 65
BRIDGE ID. NO. 74I00650043
STATION 1851+69.99 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

CORRECT _____
ENGINEER OF STRUCTURES

172672043_SR-109_TDOT/STRUCTURES/SR109_BRIDGE_LOG1.SHT

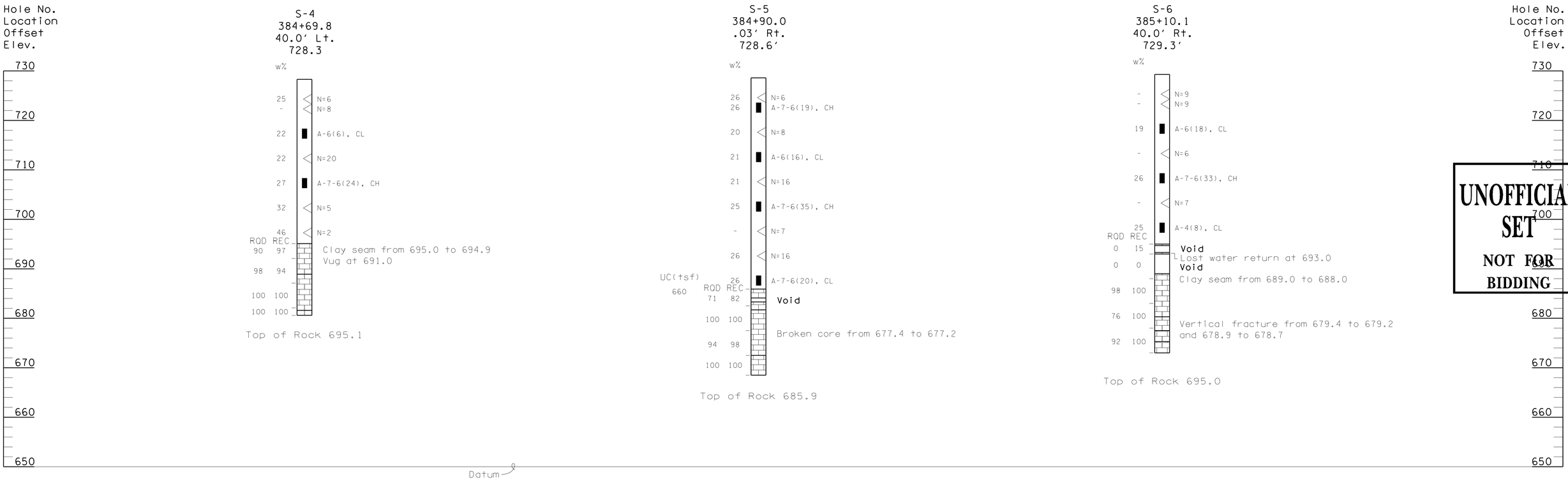
CONST. NO. 74003-1160-44
83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CE

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

BENT NO. 1



UNOFFICIAL SET
NOT FOR BIDDING

LOGS OF BORINGS
SCALE: 1"=10' (VERTICAL ONLY)

LEGEND

<	Standard Penetration Test Sample
▮	Thin-walled Tube Sample
w%	Moisture Content
N	Standard Penetration Test Blow Count (blows/ft.)
RQD	Rock Quality Designation (%)
REC	Core Recovery (%)
UC(tsf)	Unconfined Compressive Strength (tons/sq. ft.)
NR	No Refusal
R	Refusal - Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.

NOTES:

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2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.
3. ALL STANDARD PENETRATION TESTING PERFORMED FOR STRUCTURE BORINGS WERE DONE UTILIZING AN AUTOMATIC HAMMER.

NOTE:

Bedrock encountered was limestone of the St. Louis Formation, fine to course grained, thin to medium bedded, medium gray with occasional vugs.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 109
OVER
INTERSTATE 65
BRIDGE ID. NO. 74I00650043
STATION 1851+69.99 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

SHEET 3 OF 5

CORRECT _____
ENGINEER OF STRUCTURES

17267043_SR-109_TDOT/STRUCTURES/SR109-BRIDGE_LOG2.SHT

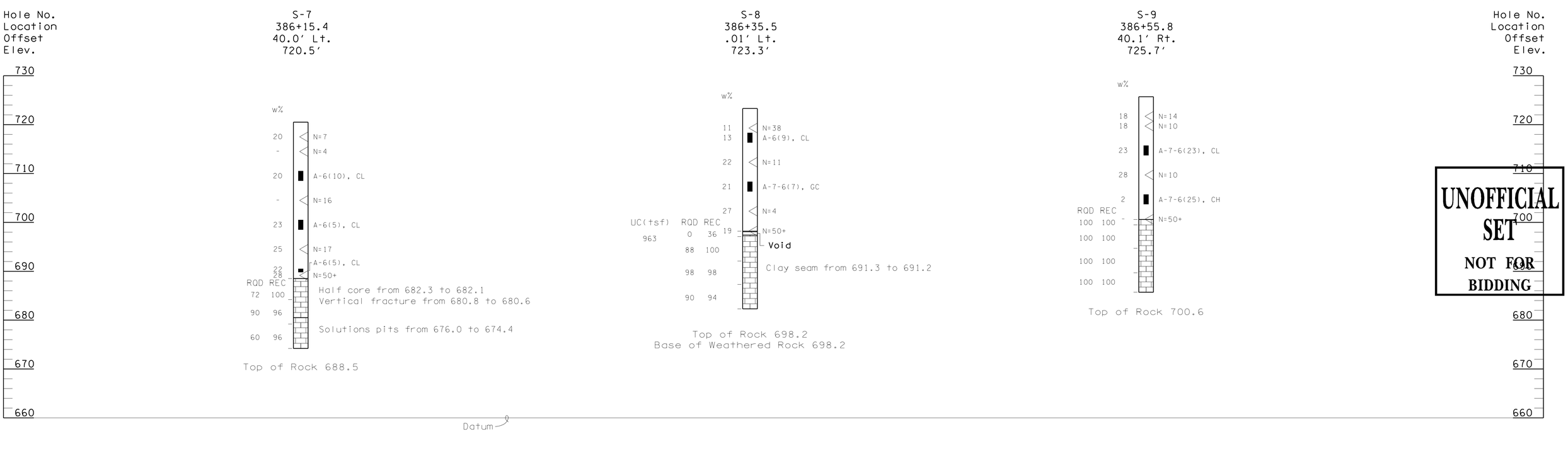
74003-1160-44
CONST. NO. 83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CF

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

BENT NO. 2



LOGS OF BORINGS
SCALE: 1"=10' (VERTICAL ONLY)

NOTES:

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LEGEND

<	Standard Penetration Test Sample
▮	Thin-walled Tube Sample
w%	Moisture Content
N	Standard Penetration Test Blow Count (blows/ft.)
RQD	Rock Quality Designation (%)
REC	Core Recovery (%)
UC(tsf)	Unconfined Compressive Strength (tons/sq. ft.)
NR	No Refusal
R	Refusal - Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.

NOTE:

Bedrock encountered was limestone of the St. Louis Formation, fine to course grained, thin to medium bedded, medium gray with occasional vugs.

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
NO. 029415
STATE OF TENNESSEE

UNOFFICIAL SET
NOT FOR BIDDING

SHEET 4 OF 5

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 109
OVER
INTERSTATE 65
BRIDGE ID. NO. 74I00650043
STATION 1851+69.99 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

CORRECT _____
ENGINEER OF STRUCTURES

17267043_SR-109_TDOT/STRUCTURES/SR109_BRIDGE_LOG3.SHT

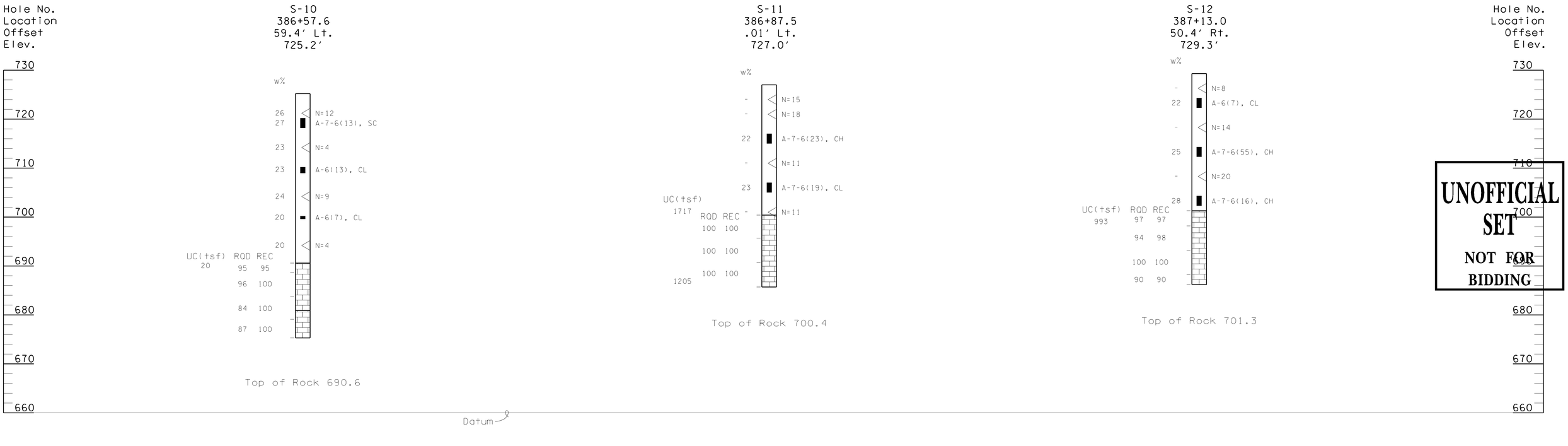
74003-1160-44
CONST. NO. 83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CG

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

ABUTMENT NO. 2



LOGS OF BORINGS
SCALE: 1"=10′ (VERTICAL ONLY)

NOTES:

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2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.
3. ALL STANDARD PENETRATION TESTING PERFORMED FOR STRUCTURE BORINGS WERE DONE UTILIZING AN AUTOMATIC HAMMER.

LEGEND

<	Standard Penetration Test Sample
▮	Thin-walled Tube Sample
w%	Moisture Content
N	Standard Penetration Test Blow Count (blows/ft.)
RQD	Rock Quality Designation (%)
REC	Core Recovery (%)
UC(tsf)	Unconfined Compressive Strength (tons/sq. ft.)
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NOTE:

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UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA
STATE ROUTE 109
OVER
INTERSTATE 65
BRIDGE ID. NO. 74I00650043
STATION 1851+69.99 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

SHEET 5 OF 5

CORRECT _____
ENGINEER OF STRUCTURES

117672043_SR-109_TDOT/STRUCTURES/SR109_BRIDGE_LOG4.SHT

GENERAL RETAINING WALL NOTES

CONST. NO.	74003-1160-44 83001-1140-44	
PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CH

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

Retaining Wall Nos. 1 and 2

1. Excavation required for construction at the retaining walls and/or footings shall not be accomplished until the Contractor has labor and material resources available to begin and continue wall construction immediately after excavation.

2. All walls shall follow the design guidelines established in the current TDOT Earth Retaining Structures Manual.

3. All temporary construction slopes shall be placed on a maximum 1H:1V slope in soil and shall not be left open without shoring for any longer than absolutely necessary. The Contractor building the wall shall ensure that these temporary back slopes are not and do not become unstable. If the slope is unstable, becomes unstable, is cut steeper than a 1H:1V slope or is unacceptable for another reason, then temporary shoring shall be used. Bracing/shoring shall be performed in accordance with applicable federal, state and local guidelines. Regardless, it is the Contractor's responsibility to provide and maintain safe a excavation.

4. Any unusual soft conditions other than those assumed should be reported to the TDOT Geotechnical Engineering Section.

5. Acceptable Wall Types

   - Cast-In-Place Concrete Gravity Wall
   - Cast-In-Place Concrete Cantliever Wall (Including Counterfort Wall)
   - Mechanically Stabilized Earth (MSE) Wall - Segmental Precast
   - Mechanically Stabilized Earth (MSE) Wall - Modular Block

6. The following geotechnical parameters are recommended for use in wall design procedures.

Recommended Parameters for Retaining Wall Design

Shear Strength Data	ϕ	γ
Select Granular Backfill	35°	*
In Situ Soil	21°	123 pcf

Earth Pressure Coefficients	Recommended Value
Active Earth Pressure (K_a)	0.271 For Select Granular Backfill 0.472 For Soil (Common) Backfill
Passive Earth Pressure (K_p)	2.117

Coefficients of Sliding Friction	Recommended Value
Concrete on Limestone	F = 0.60
Concrete on Clay	F = 0.35

* The unit weight of the select granular backfill shall be determined by the Contractor/Wall Designer depending on the actual backfill material used. As outlined in Section 204 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction, select granular backfill for structures shall be Type A aggregate. Grading D meeting the requirements of Subsection 903.05.

7. The following factors of safety are recommended for design.

Recommended Factors of Safety for Retaining Wall Design

Condition	Recommended Factor of Safety
Overturning	2.0
Sliding	1.5
Bearing Capacity for MSE Walls	2.5
Bearing Capacity for Other MSE Walls	3.0
Global Stability (Long-Term)	1.5

8. Review of the soil profile developed along the wall alignments in conjunction with the planned bearing elevations indicates the wall will be founded on existing residual clayey soils. Thus, the bearing capacity will be controlled by the short-term strength of the clays. Based on a coesion value of 1,130 psf derived from unconfined compression tests and correlations of corrected SP N-values, the referenced method yields on allowable bearing capacity of about 3,000 psf for the clayey materials. Based on this information, the stated allowable bearing capacities are recommended for design of the retaining walls.

9. Soils exposed within the bottoms of footing trenches shall be observed for suitabilty by a Geotechnical Engineer or and Engineering Technican working under his/her direct supervision. Any unsuitable materials encountered in footing excavations in this area shall be removed. Areas disturbed by the excavation process should be backfilled with properly compacted soil or granular material or as directed by the Engineer.

10. If soft, wet soils are encountered in the foundation excavations, they shall be undercut a minumum depth of 2 feet and backfilled to the design bearing elevation using Type A aggregate. Grading A conforming to Subsection 903.05 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction. The bottoms of the foundation excavations should be proof-rolled to restore the in-place density of any soil disturbed in the excavation process. Isolated zones of loose or wet soil may also be stablized using TDOT size No. 2, 3, or 24 stone, as specified in Section 903 of the current Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction.

11. Review of project plans and cross-sections indicate the only cuts planned for the project that will generate a significant volume of material that may be used for embankment construction are associated with excavation of the existing embankments to accomodate the longer bridges structures proposed to replace the existing structures. The borrow material to be used for embankment construction shall meet the following minimum strength parameters.

Total Stress	Effective Stress
c = 1,130 psf	$\bar{c}$ = 0 psf
ϕ = 0°	$\bar{\phi}$ = 24°

The Contractor shall perform laboratory testing to confirm that the minimum total stress and effective stress strength parameters are equal to our greater than the above values per material type for each borrow area. The test results shall be submitted to the Engineer for approval.

12. Retaining wall design shall include an evaluation of differential settlement along the wall alignments. The differential settlements shall conform to the requirements outlined in Chapter 11, Section VI, Table 1 of the current Tennessee Department of Transportation Earth Retaining Structures Manual.

13. The retaining wall designer shall submit the final retaining wall plans, design calculations, and construction specifications to the Tennessee Department of Transportation Geotechnical Engineering Section for review and approval.

Special Design Requirements

14. The wall shall have a drainage gutter at the top designed to carry surface runoff to either or both ends of the walls. The detail for this gutter shall be provided in the Contractor's wall design plans. If cast-in-place concrete gravity or cantiliever walls are used, the wall designer shall provide for a drainage layer behind the wall for a gravity structure or behind the wall stem for a cantilever geometry with adequate drainage provided via weep holes. If soil backfills to be used behind the wall, filter fabric shall be required as a separater between the granular drainage layer and soil backfill material. Use of filter babric will help reduce the infiltration of fines into the granular material behind the wall and help reduce clogging of the drainage system.

15. Project cross-sections indicate the subject retaining walls will retain fill materials directly beneath the planned lanes of travel. As such, applicable traffic surcharge loading should be included during the design process in accordance with current AASHTO specifications.

UNOFFICIAL SET

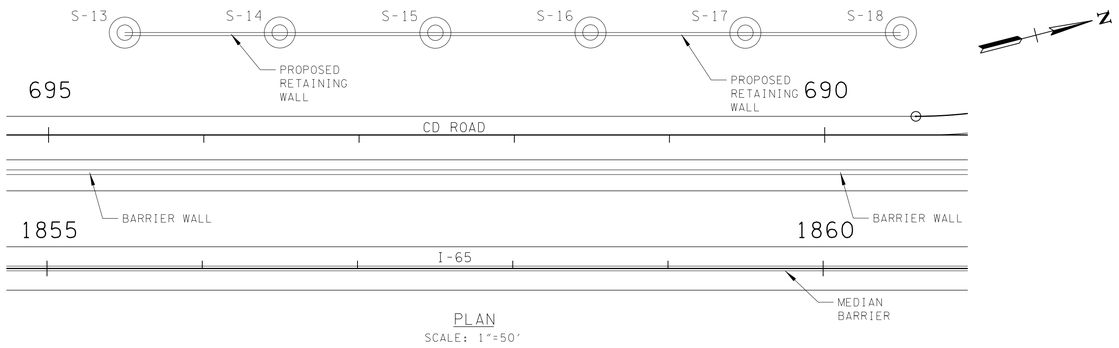
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL RETAINING WALL NOTES
ROBERTSON-SUMNER COUNTIES
2012

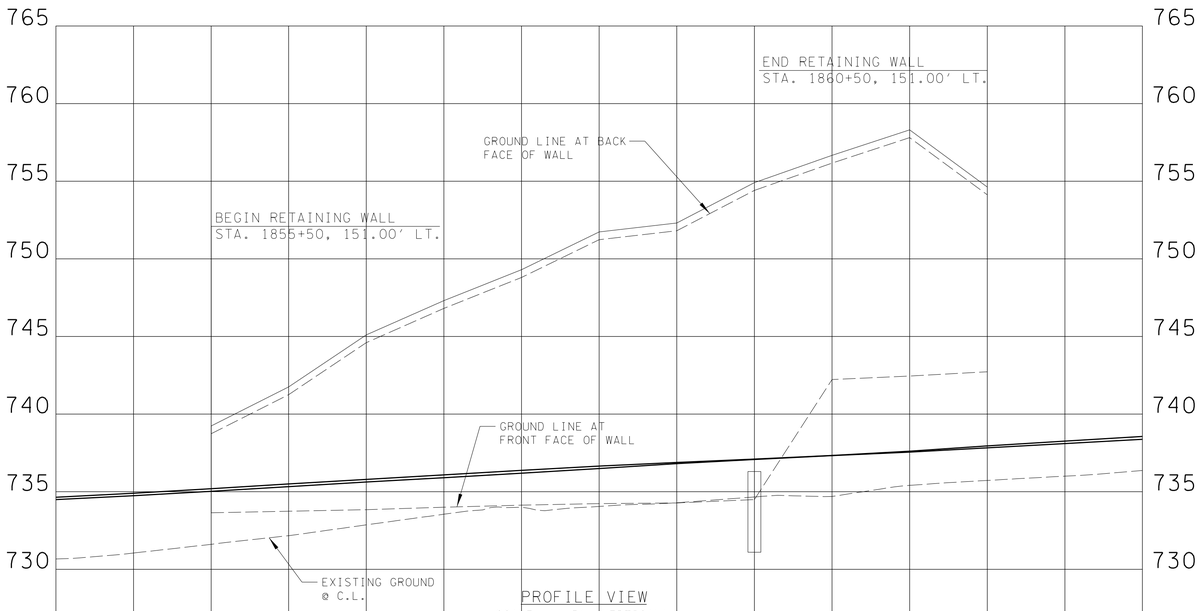
CORRECT ____________
ENGINEER OF STRUCTURES

172672043_SR-109_TDOT/STRUCTURES/RWALL_GNTS.SHT



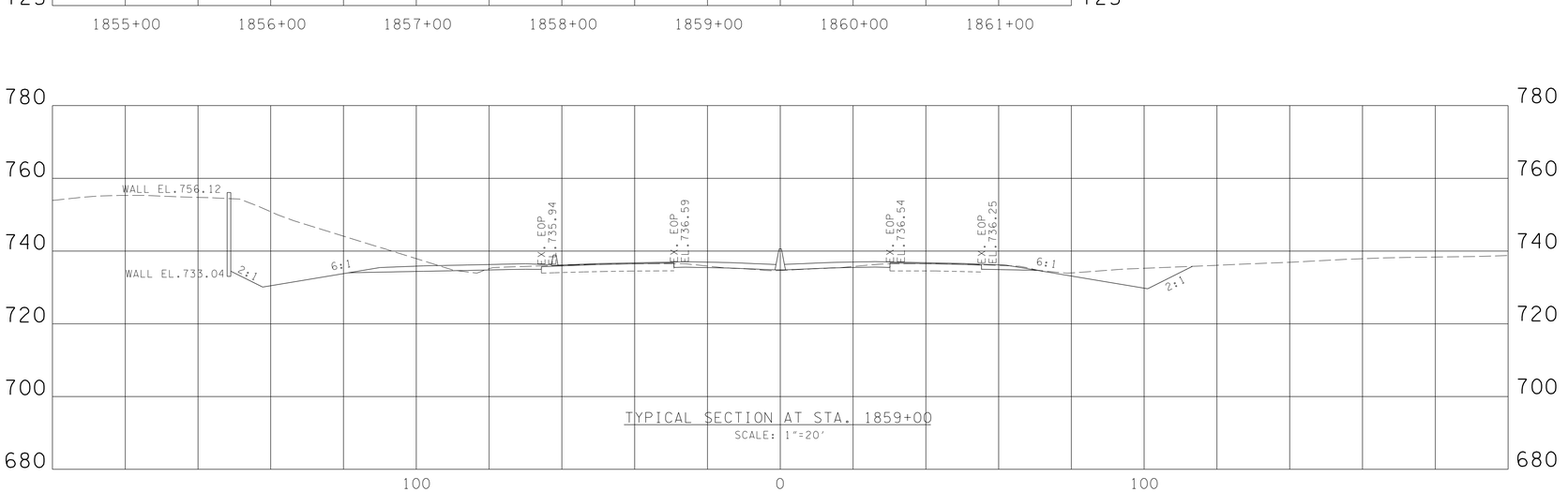
PLAN

SCALE: 1"=50'



PROFILE VIEW

SCALE: 1"=5' (VERTICAL)
1"=50' (HORIZONTAL)



TYPICAL SECTION AT STA. 1859+00

SCALE: 1"=20'

LEGEND:

◎ Soil Sample Boring

74003-1160-44
CONST. NO. 83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CI

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

TABLE OF POINT LOCATIONS

			GLOBAL COORINATES			
POINT	STATION	OFFSET DISTANCE	NORTHING	EASTING	GROUND ELEVATION	ROCK ELEVATION
S-13	1855+50.09	151.91' LT	837,220.319	1,800,047.526	738.98	711.2
S-14	1856+49.89	151.98' LT	837,316.981	1,800,072.350	744.52	NR
S-15	1857+50.17	151.84' LT	837,414.052	1,800,097.498	748.63	711.2
S-16	1858+50.09	152.03' LT	837,510.863	1,800,122.240	752.99	710.7
S-17	1859+49.88	151.86' LT	837,607.455	1,800,147.300	756.15	720.7
S-18	1860+50.02	152.08' LT	837,704.493	1,800,172.061	754.82	741.3

UNOFFICIAL SET
NOT FOR BIDDING

NOTES:

1. THE INFORMATION FOR THE PLAN AND ELEVATION VIEWS PRESENTED ON THIS DRAWING WAS PROVIDED BY PALMER ENGINEERING COMPANY ON JUNE 6, 2012.
2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGENCY
No. 023415
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA RETAINING WALL APPOX. 152' LEFT OF STATION 1855+50 (I-65) ROBERTSON-SUMNER COUNTIES 2012

SHEET 2 OF 5

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

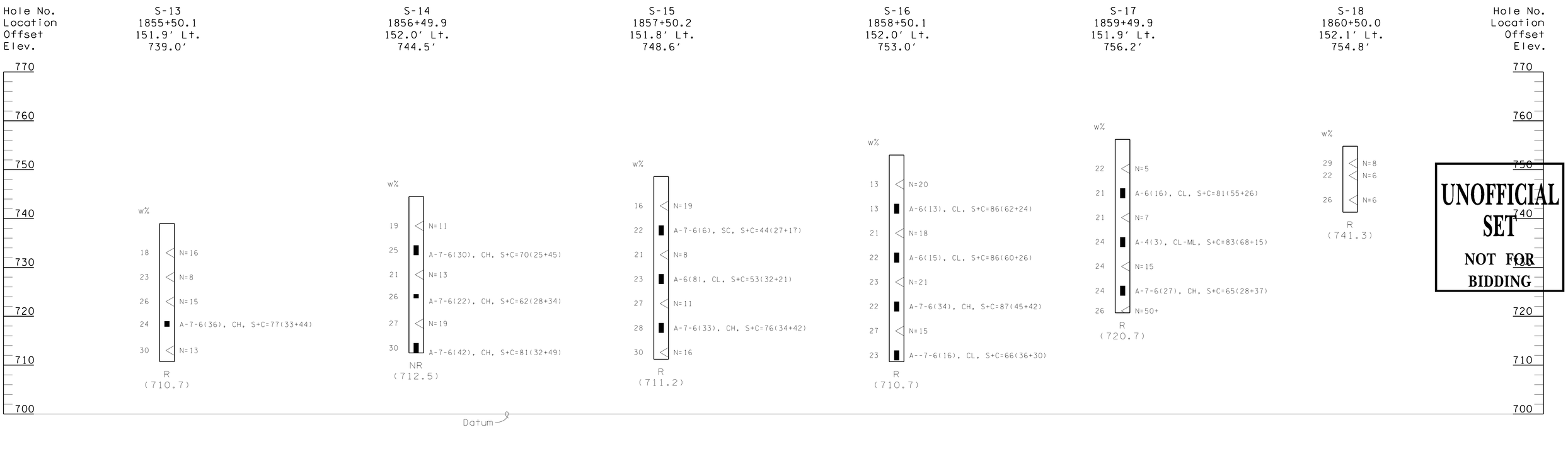
117672043_SR-109_TDOT/STRUCTURES/RW_1855.SHT

CONST. NO. 74003-1160-44
83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CJ

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



UNOFFICIAL SET
NOT FOR BIDDING

LOGS OF BORINGS
SCALE: 1"=10' (VERTICAL ONLY)

NOTES:

1. THE INFORMATION FOR THE PLAN AND ELEVATION VIEWS PRESENTED ON THIS DRAWING WAS PROVIDED BY PALMER ENGINEERING COMPANY ON JUNE 6, 2012.
2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.
3. ALL STANDARD PENETRATION TESTING PERFORMED FOR STRUCTURE BORINGS WERE DONE UTILIZING AN AUTOMATIC HAMMER.

LEGEND

<	Standard Penetration Test Sample
▮	Thin-walled Tube Sample
w%	Moisture Content
N	Standard Penetration Test Blow Count (blows/ft.)
RQD	Rock Quality Designation (%)
REC	Core Recovery (%)
UC(tsf)	Unconfined Compressive Strength (tons/sq.ft.)
NR	No Refusal
R	Refusal - Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.

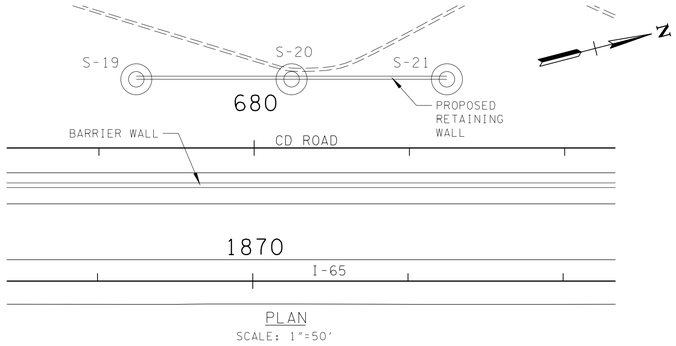
DANIEL D. TERRANOVA
REGISTERED ENGINEER
No. 023476
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LOGS OF BORINGS
RETAINING WALL
APPOX. 152' LEFT OF
STATION 1855+50 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

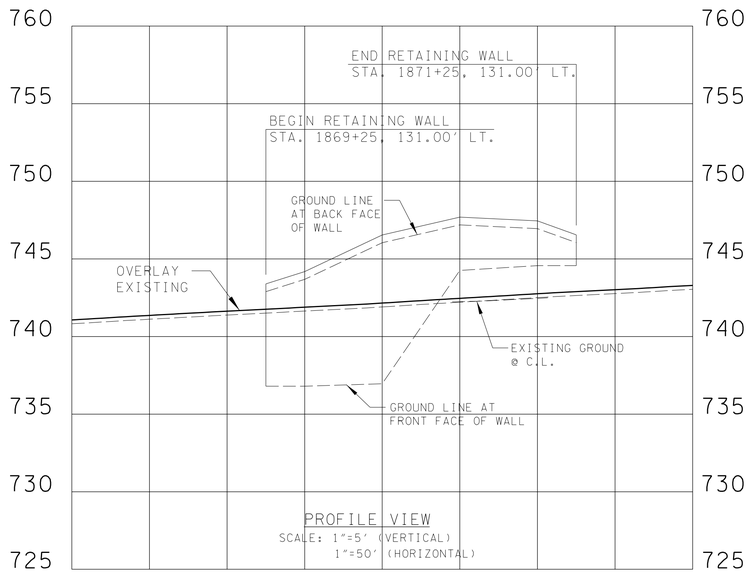
CORRECT _____
ENGINEER OF STRUCTURES

17267043_SR-109_TDOT/STRUCTURES/RW_1855_LOGS.SHT



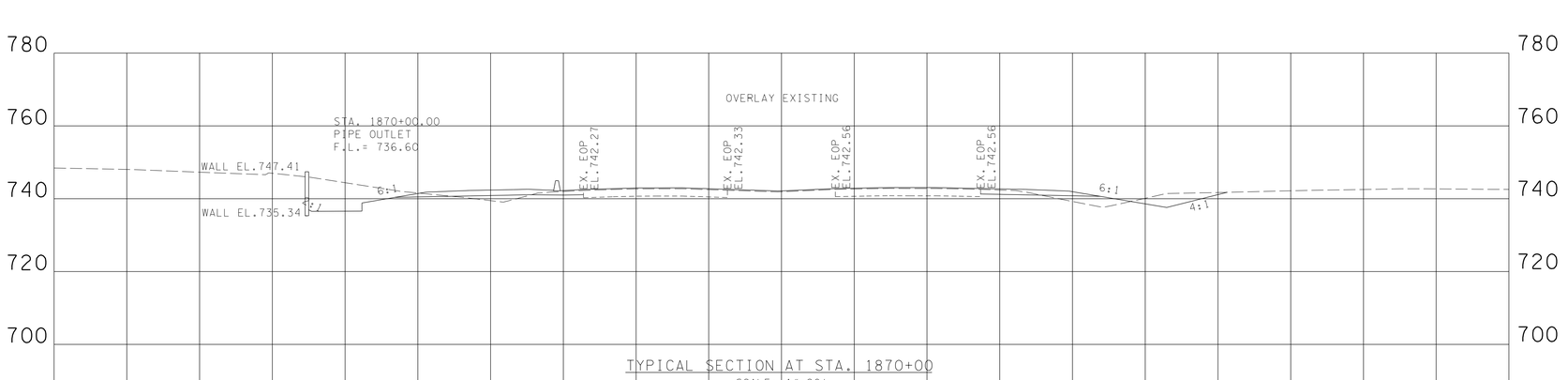
PLAN

SCALE: 1"=50'



PROFILE VIEW

SCALE: 1"=5' (VERTICAL)
1"=50' (HORIZONTAL)



TYPICAL SECTION AT STA. 1870+00

SCALE: 1"=20'

LEGEND:

◎ Soil Sample Boring

TABLE OF POINT LOCATIONS

POINT	STATION	OFFSET DISTANCE	GLOBAL COORINATES NORTHING	GLOBAL COORINATES EASTING	GROUND ELEVATION	ROCK ELEVATION
S-19	1869+27.97	129.98' LT	838,546.444	1,800,411.226	742.85	731.9
S-20	1870+25.02	130.01' LT	838,643.331	1,800,436.202	746.89	731.9
S-21	1871+25.09	130.02' LT	838,740.226	1,800,461.194	745.94	730.9

NOTES:

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DANIEL D. TERRANOVA — REGISTERED ENGINEER — AGRICULTURE — No. 023417 — STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DATA RETAINING WALL APPOX. 130' LEFT OF STATION 1869+25 (I-65) ROBERTSON-SUMNER COUNTIES 2012

CONST. NO. 74003-1160-44
83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CK

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

UNOFFICIAL SET
NOT FOR BIDDING

SHEET 4 OF 5

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

172672042/STRUCTURES/RW_1869.SHT

CONST. NO. 74003-1160-44
83001-1140-44

PROJECT NO.	YEAR	SHEET NO.
STP-HPP-NH-65-3(113)	2012	138CL

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

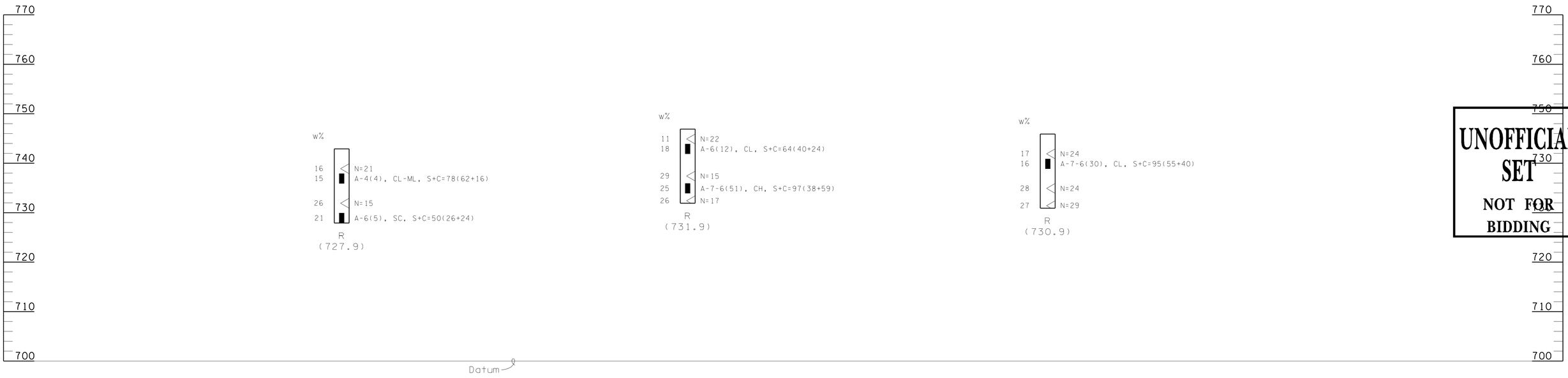
Hole No.
Location
Offset
Elev.

S-19
1869+25.0
130.0′ Lt.
742.9′

S-20
1870+25.0
130.0′ Lt.
746.9′

S-21
1871+25.1
130.0′ Lt.
745.9′

Hole No.
Location
Offset
Elev.



UNOFFICIAL SET
NOT FOR BIDDING

LOGS OF BORINGS
SCALE: 1"=10′ (VERTICAL ONLY)

LEGEND

<	Standard Penetration Test Sample
▮	Thin-walled Tube Sample
w%	Moisture Content
N	Standard Penetration Test Blow Count (blows/ft.)
RQD	Rock Quality Designation (%)
REC	Core Recovery (%)
UC(tsf)	Unconfined Compressive Strength (tons/sq. ft.)
NR	No Refusal
R	Refusal - Auger Refusal indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.

NOTES:

1. THE INFORMATION FOR THE PLAN AND ELEVATION VIEWS PRESENTED ON THIS DRAWING WAS PROVIDED BY PALMER ENGINEERING COMPANY ON JUNE 6, 2012.
2. THIS DRAWING IS FOR FOUNDATION DATA ONLY AND IS NOT TO BE USED AS A LAYOUT.
3. ALL STANDARD PENETRATION TESTING PERFORMED FOR STRUCTURE BORINGS WERE DONE UTILIZING AN AUTOMATIC HAMMER.

DANIEL D. TERRANOVA
REGISTERED ENGINEER
AGRICULTURE
CIVIL
No. 023416
STATE OF TENNESSEE

SHEET 5 OF 5

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

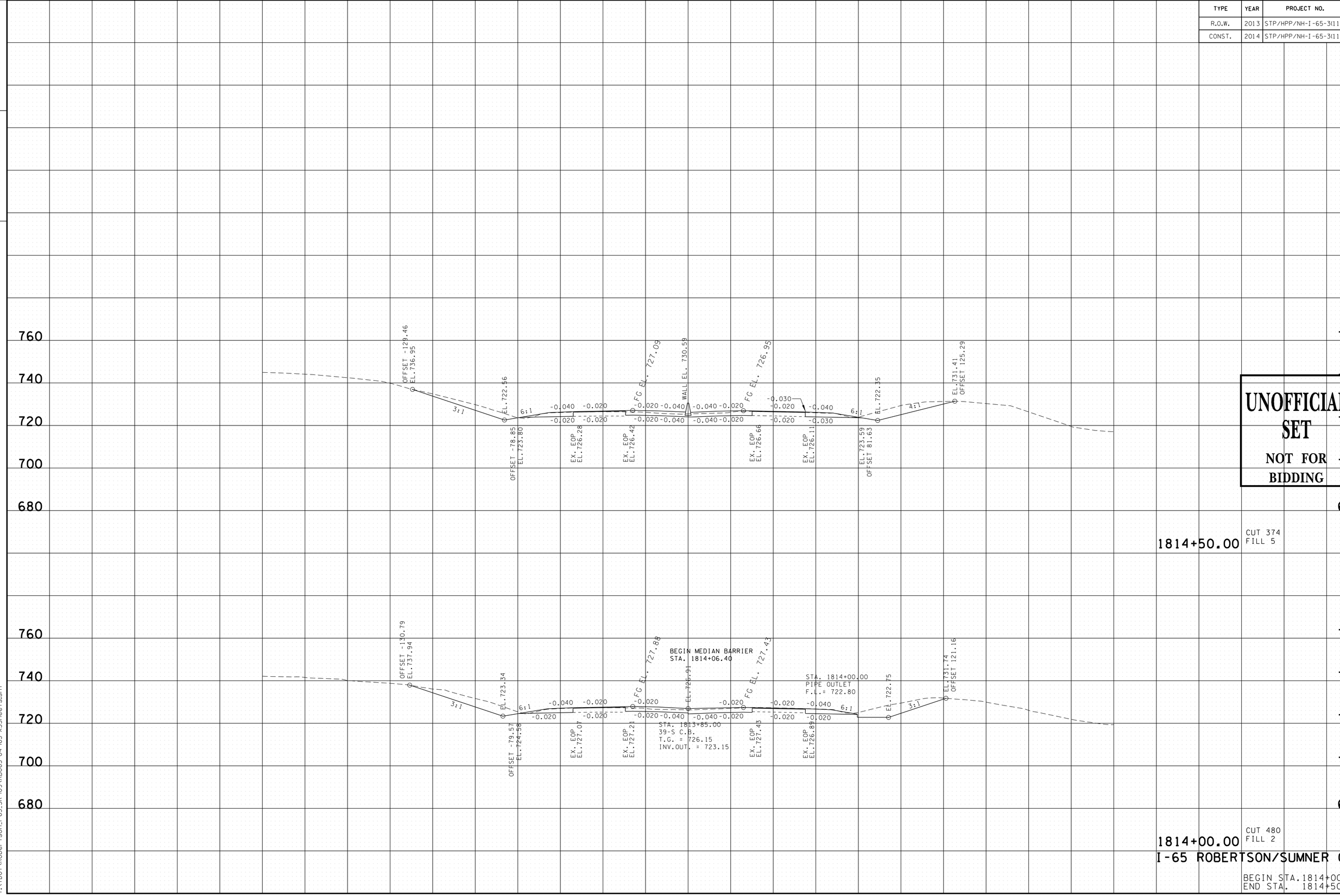
LOGS OF BORINGS
RETAINING WALL
APPOX. 130′ LEFT OF
STATION 1869+25 (I-65)
ROBERTSON-SUMNER COUNTIES
2012

CORRECT _____
ENGINEER OF STRUCTURES

172672042/STRUCTURES/RW_1869-LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	85
CONST.	2014	STP/HPP/NH-I-65-3(113)	139

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA.1814+00.00
END STA. 1814+50.00

9/24/2014 8:32:08 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	86
CONST.	2014	STP/HPP/NH-I-65-3(113)	140

TENNESSEE D.O.T.
DESIGN DIVISION
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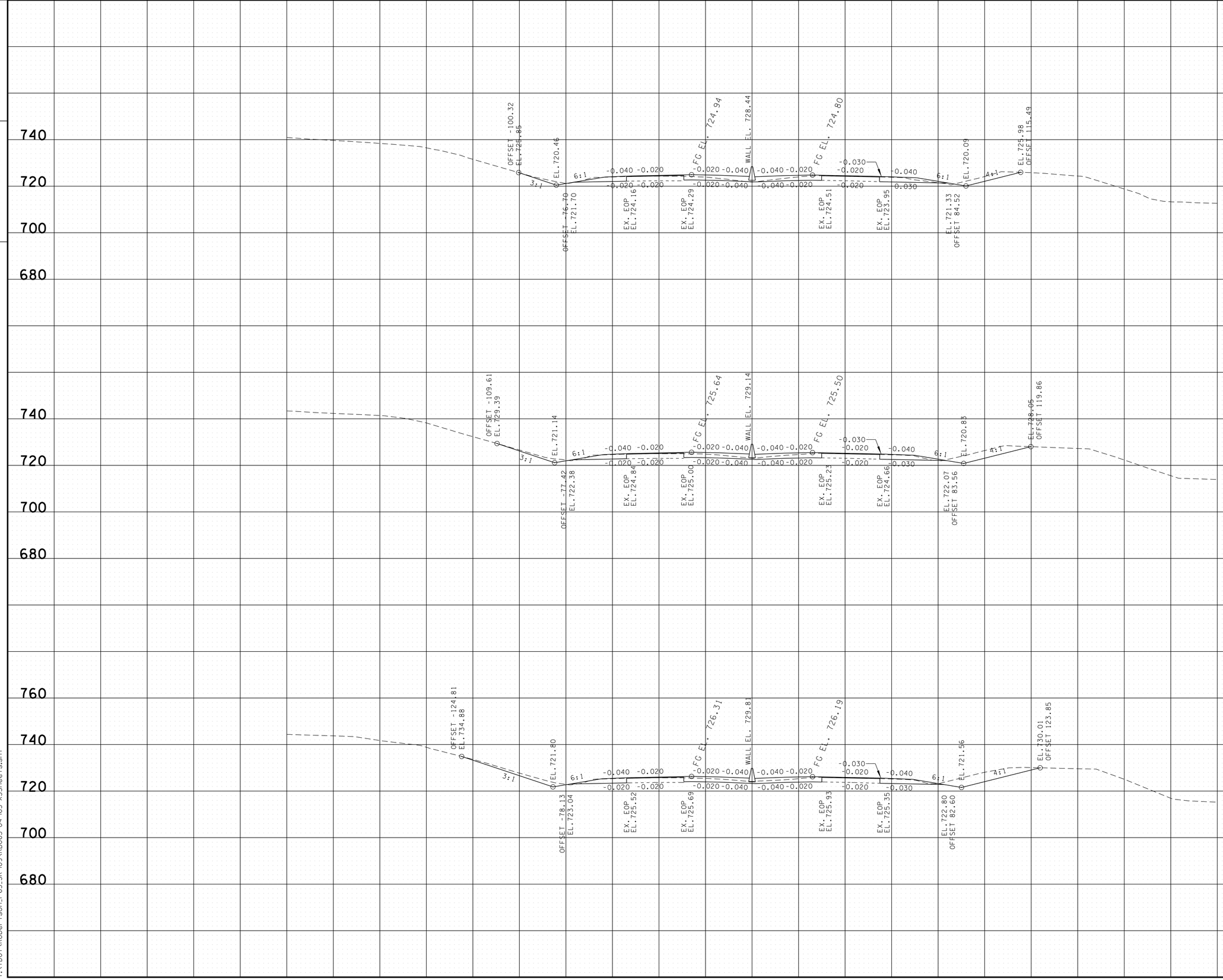

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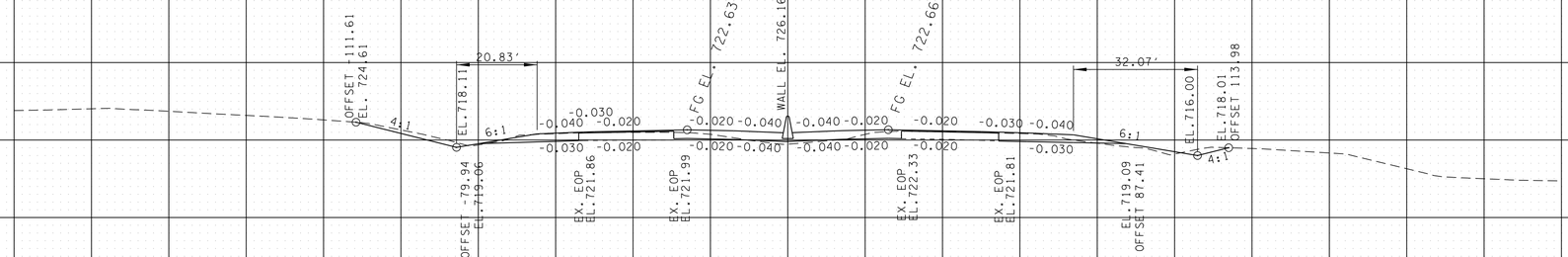
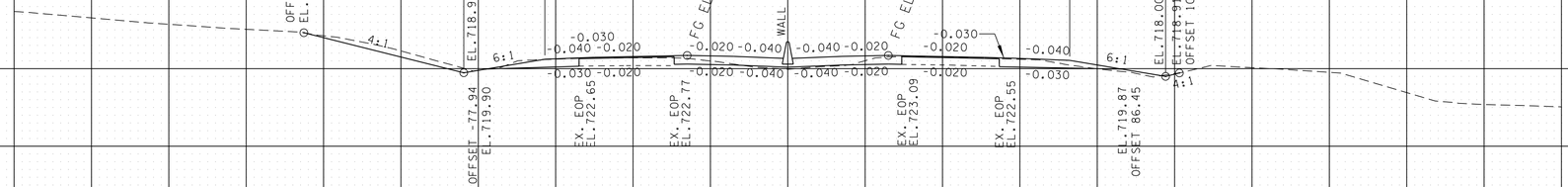
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	87
CONST.	2014	STP/HPP/NH-I-65-3(113)	141

TENNESSEE D.O.T.
DESIGN DIVISION

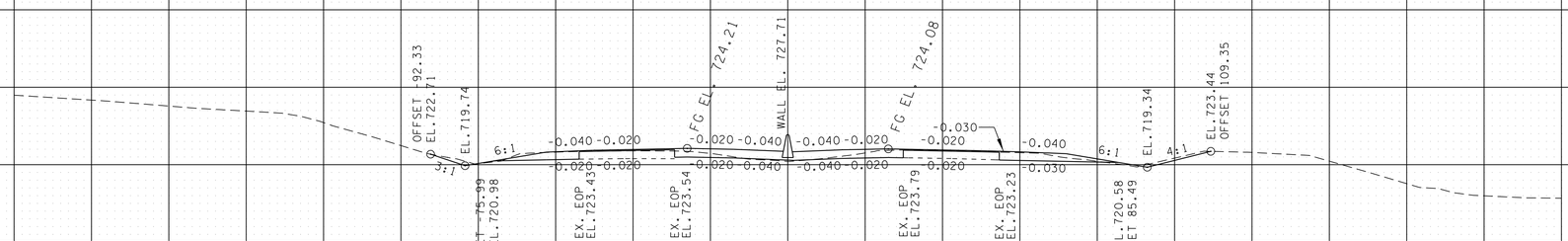
FILE NO.



1817+50.00 CUT 148 FILL 26



1817+00.00 CUT 158 FILL 18



1816+50.00 CUT 129 FILL 10

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1816+50.00
END STA. 1817+50.00

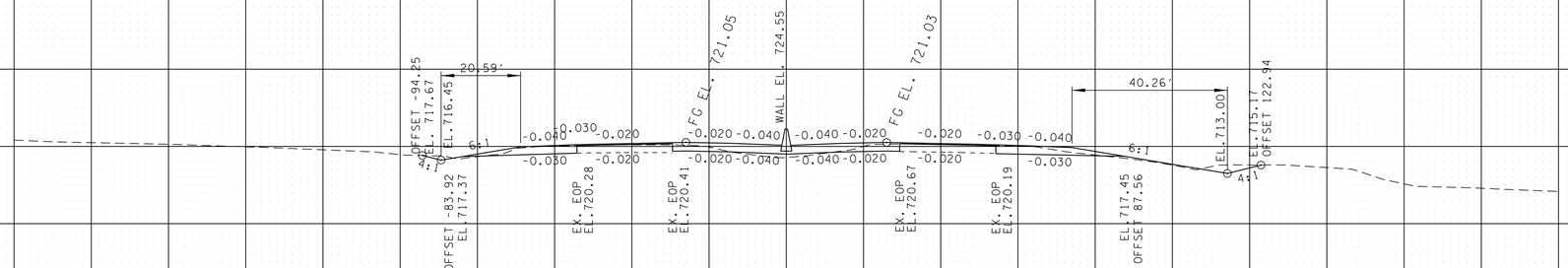
UNOFFICIAL SET
NOT FOR BIDDING

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

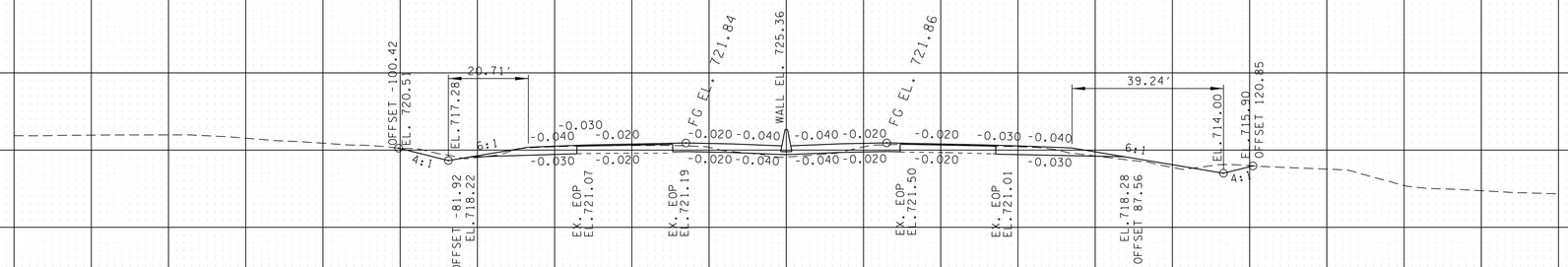
9/24/2014 8:32:13 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	88
CONST.	2014	STP/HPP/NH-I-65-3(113)	142

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1818+50.00 CUT 133 FILL 27



1818+00.00 CUT 145 FILL 26

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UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1818+00.00
END STA. 1818+50.00

9/24/2014 8:32:16 AM
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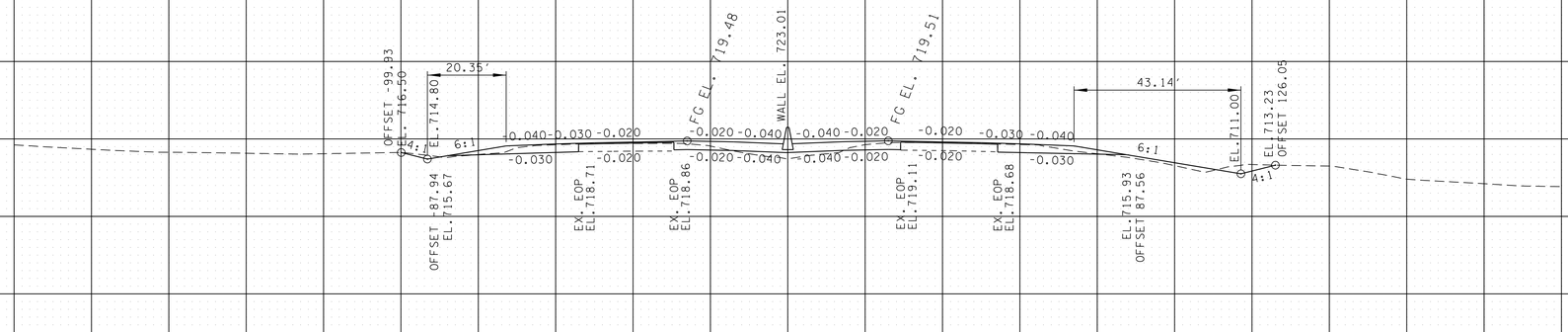
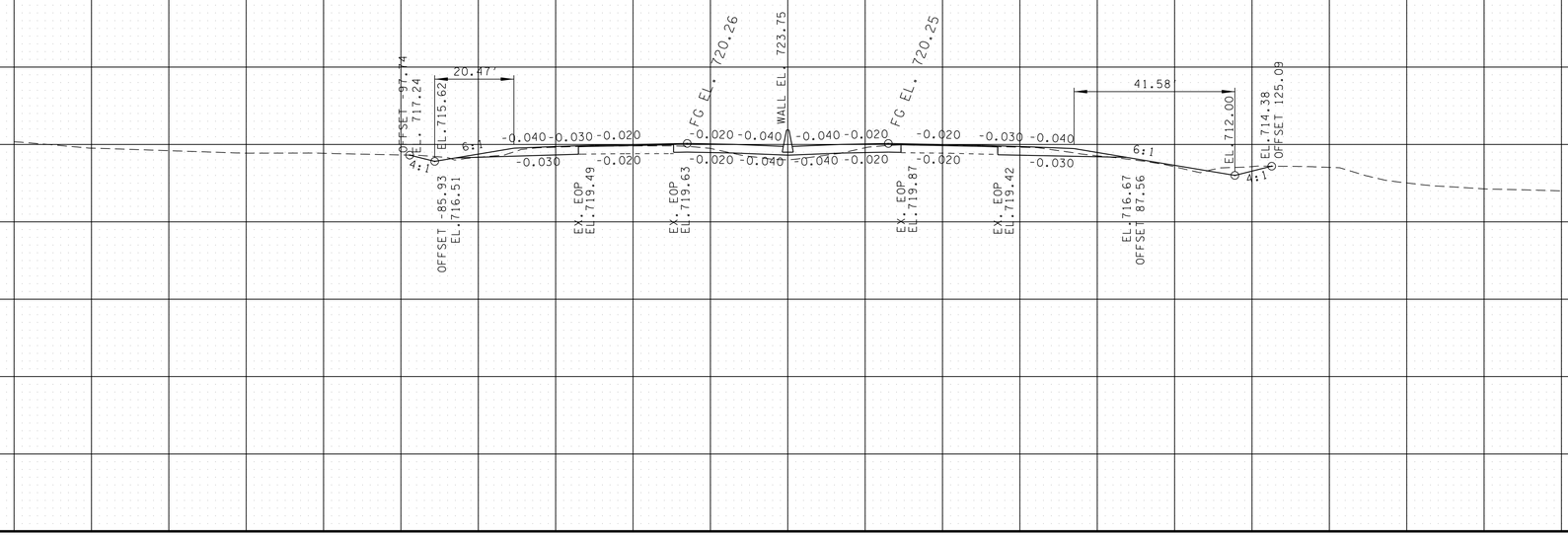
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	89
CONST.	2014	STP/HPP/NH-I-65-3(113)	143

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1819+50.00 CUT 131 FILL 50



1819+00.00 CUT 135 FILL 35

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1819+00.00
END STA. 1819+50.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:32:18 AM
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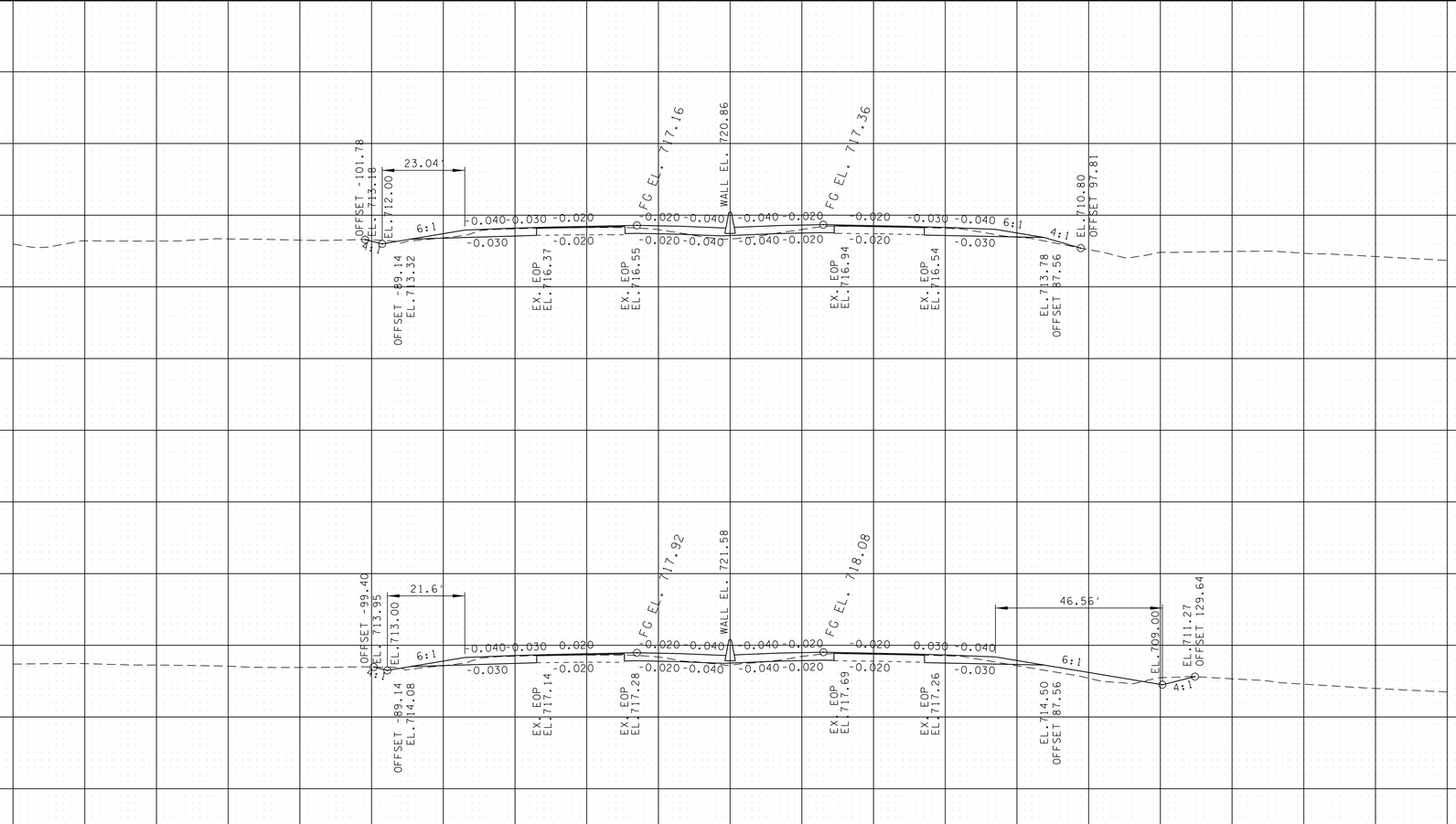
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	90
CONST.	2014	STP/HPP/NH-I-65-3(113)	144

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1820+00.00
END STA. 1821+00.00

9/24/2014 8:32:21 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	91
CONST.	2014	STP/HPP/NH-I-65-3(113)	145

TENNESSEE D.O.T.
DESIGN DIVISION
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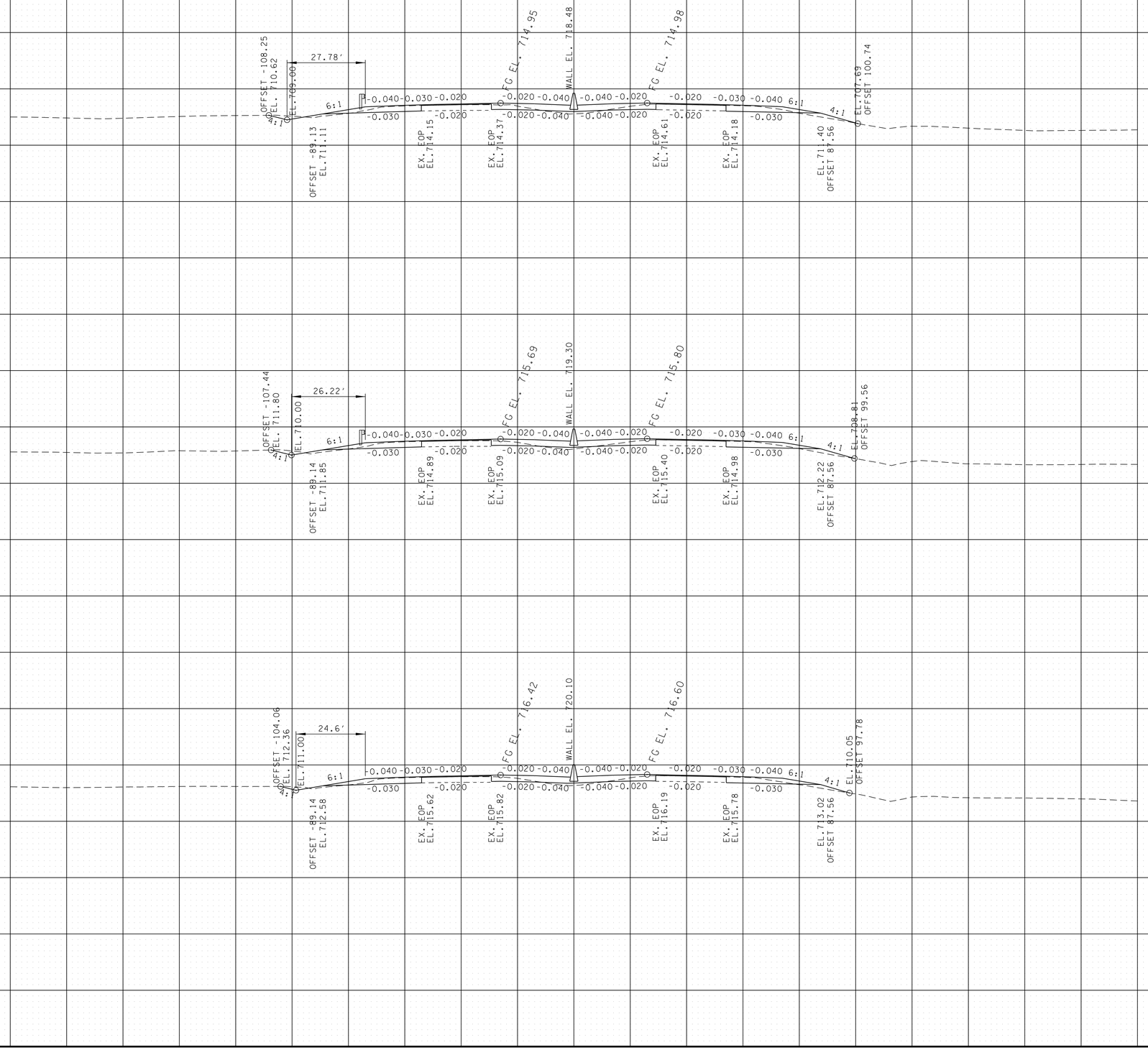

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1821+50.00
END STA. 1822+50.00

9/24/2014 8:32:23 AM
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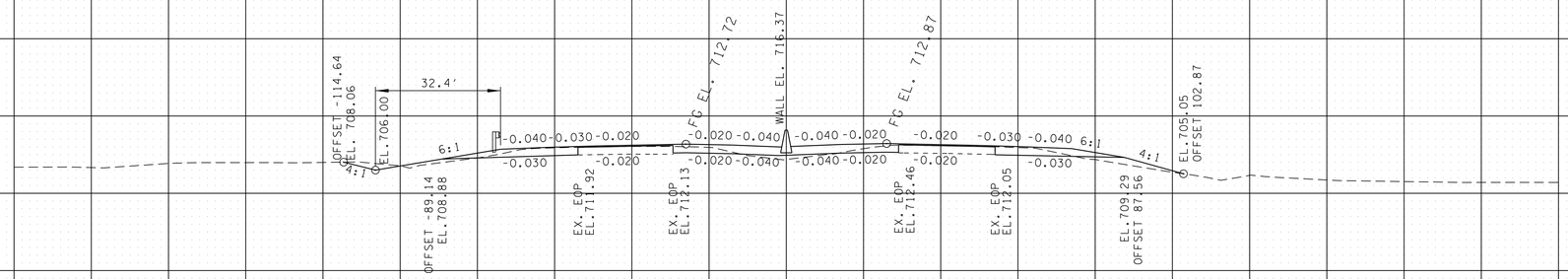
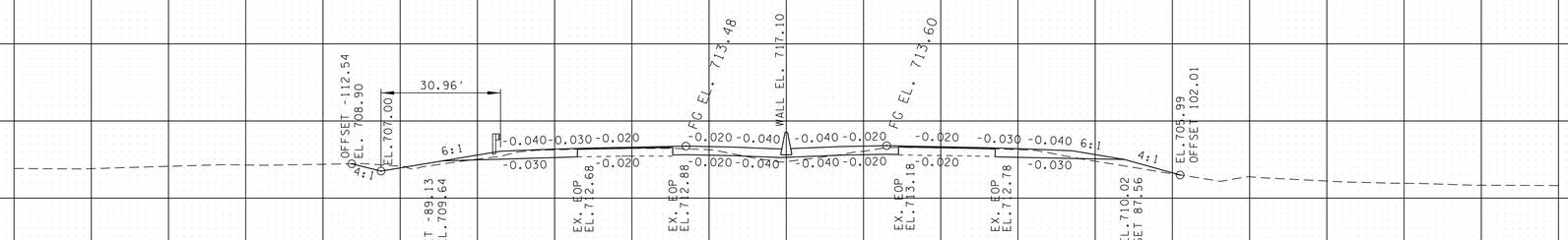
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	92
CONST.	2014	STP/HPP/NH-I-65-3(113)	146

TENNESSEE D.O.T.
DESIGN DIVISION

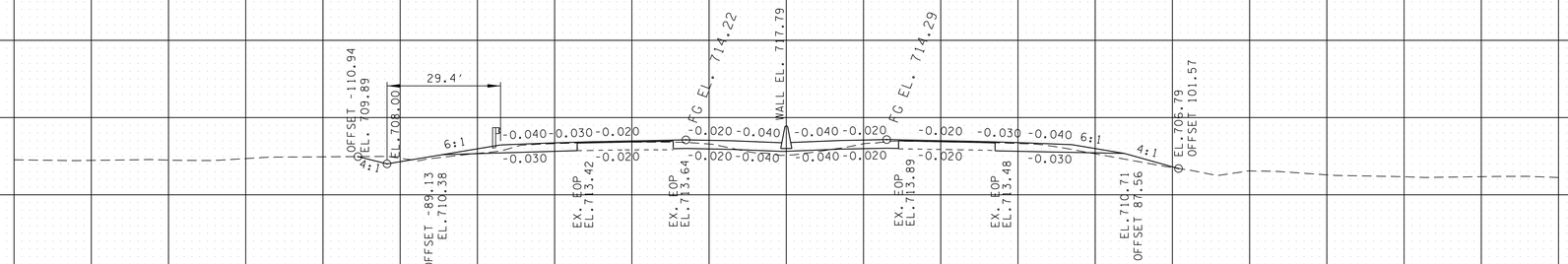
FILE NO.



1824+00.00 CUT 123 FILL 55



UNOFFICIAL SET
NOT FOR BIDDING



1823+50.00 CUT 121 FILL 49

1823+00.00 CUT 124 FILL 41

I-65 ROBERTSON/SUMNER CO.

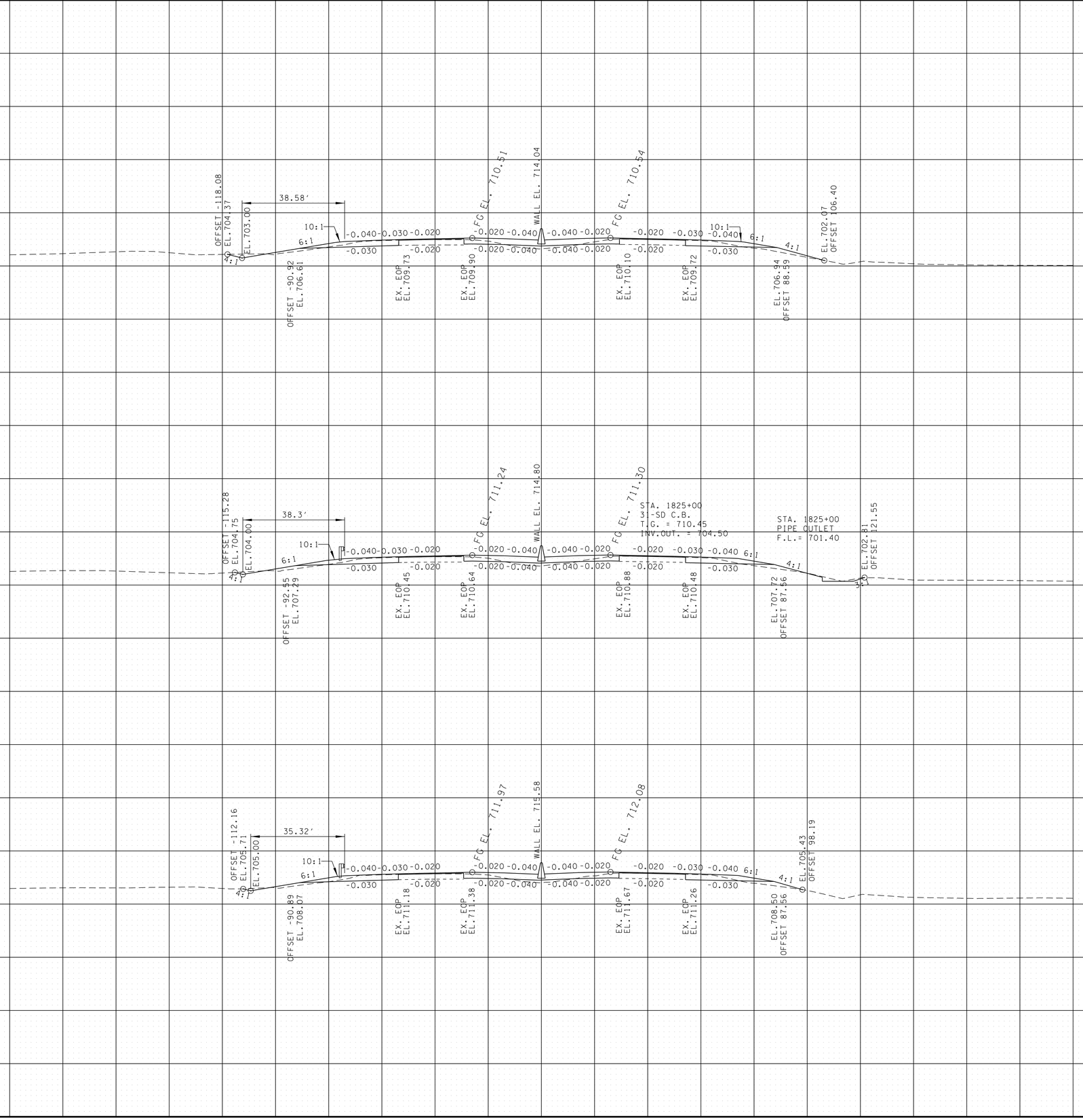
BEGIN STA. 1823+00.00
END STA. 1824+00.00

9/24/2014 8:32:26 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	93
CONST.	2014	STP/HPP/NH-I-65-3(113)	147

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

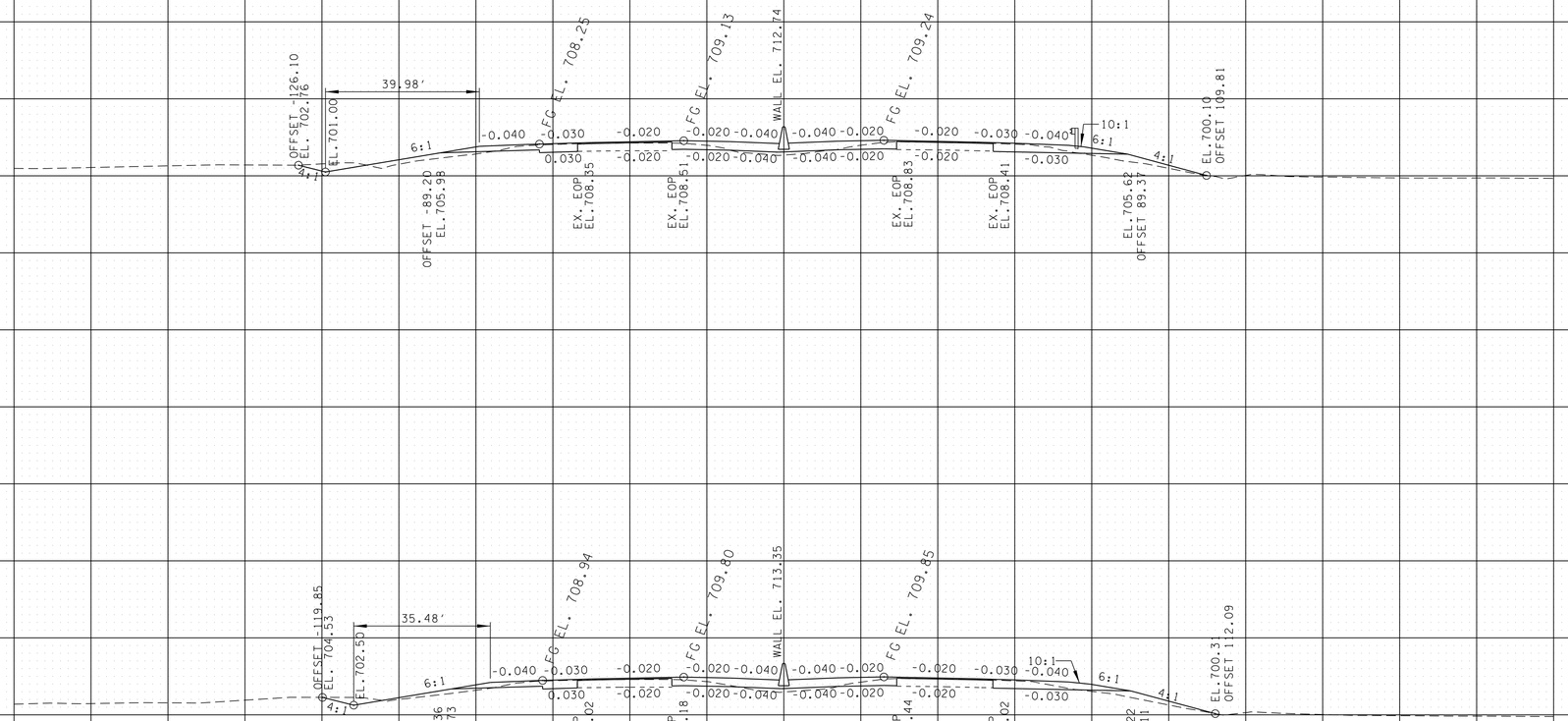
BEGIN STA. 1824+50.00
END STA. 1825+50.00

9/24/2014 8:32:29 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	94
CONST.	2014	STP/HPP/NH-I-65-3(113)	148

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

1826+50.00 CUT 121 FILL 78

1826+00.00 CUT 114 FILL 68

I-65 ROBERTSON/SUMNER CO.

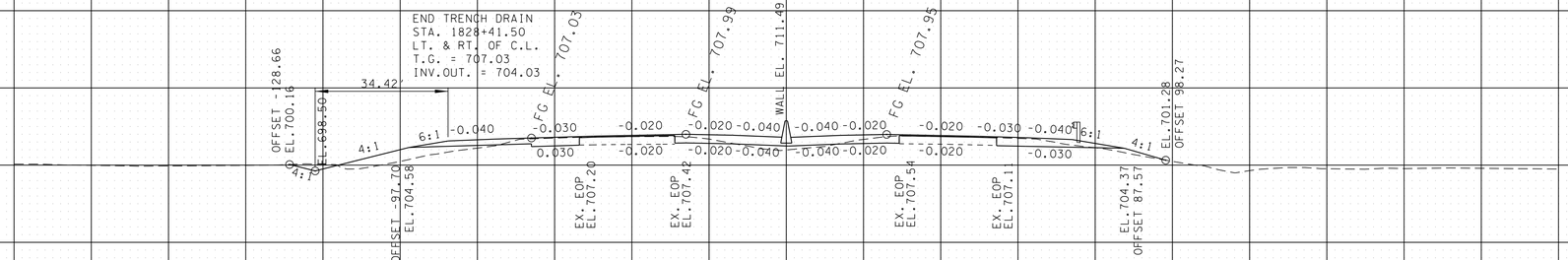
BEGIN STA. 1826+00.00
END STA. 1826+50.00

9/24/2014 8:32:31 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

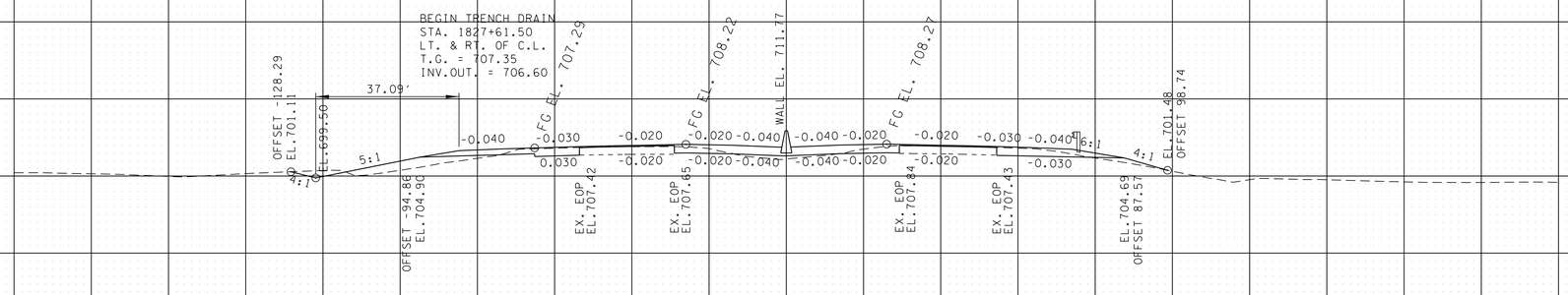
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	95
CONST.	2014	STP/HPP/NH-I-65-3(113)	149

REV. 04-02-14: ADJUSTED V-DITCH LT. STA. 1827+50 & STA. 1828+00 BY CHANGING THE SIDE SLOPE, MOVING THE DITCH OUT.

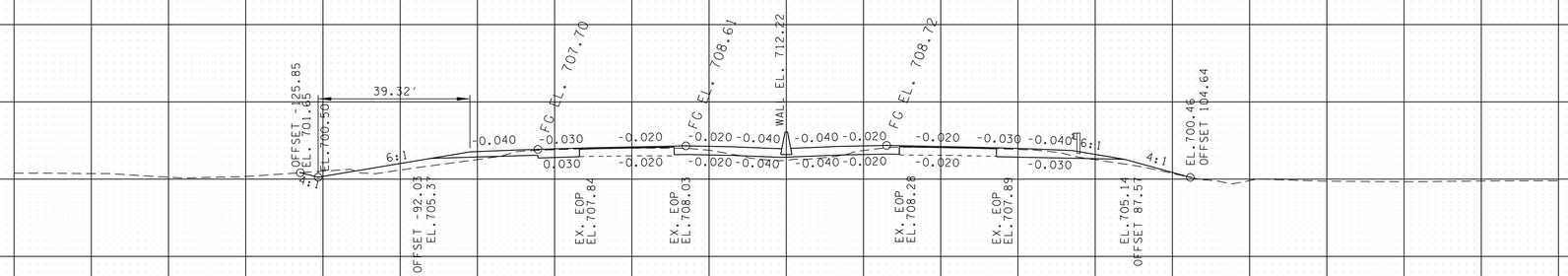
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1828+00.00 CUT 113 FILL 108



1827+50.00 CUT 117 FILL 94



1827+00.00 CUT 114 FILL 80

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1827+00.00
END STA. 1828+00.00

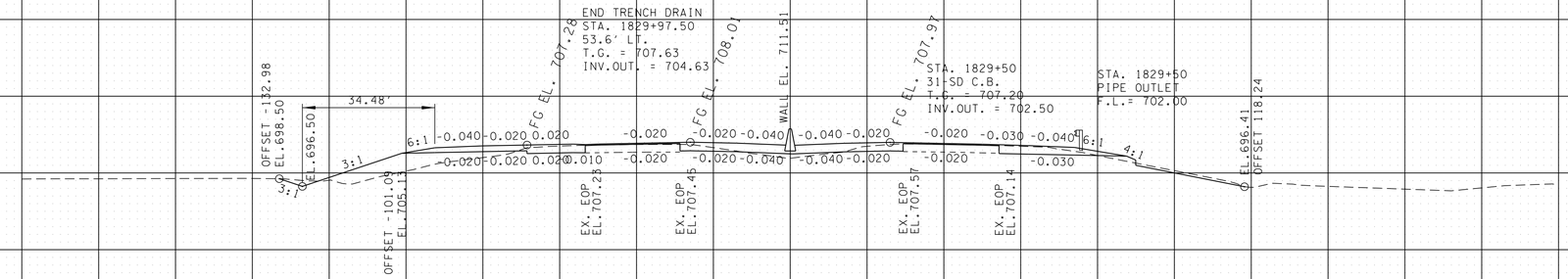
UNOFFICIAL SET
NOT FOR BIDDING

9/24/2014 8:32:34 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

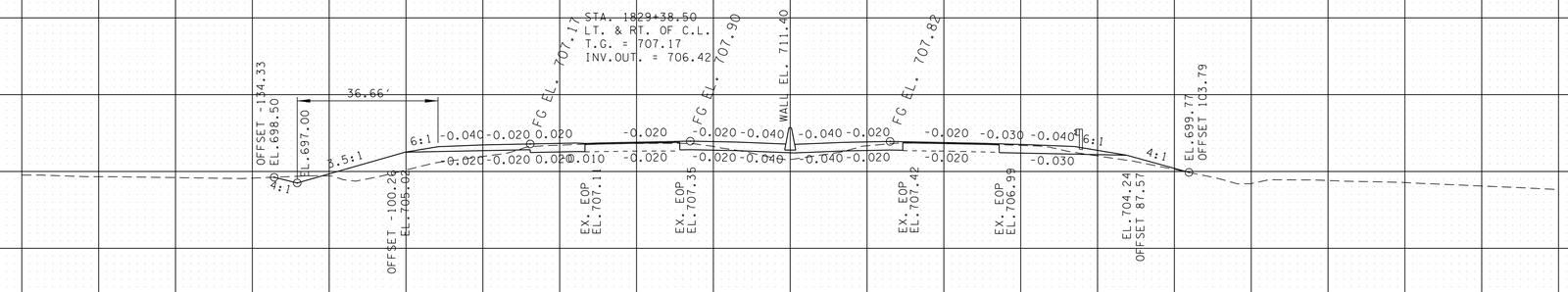
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	96
CONST.	2014	STP/HPP/NH-I-65-3(113)	150

REV. 04-02-14: ADJUSTED V-DITCH LT. STA. 1829+00 & STA. 1829+50 BY CHANGING THE SIDE SLOPE, MOVING THE DITCH IN.

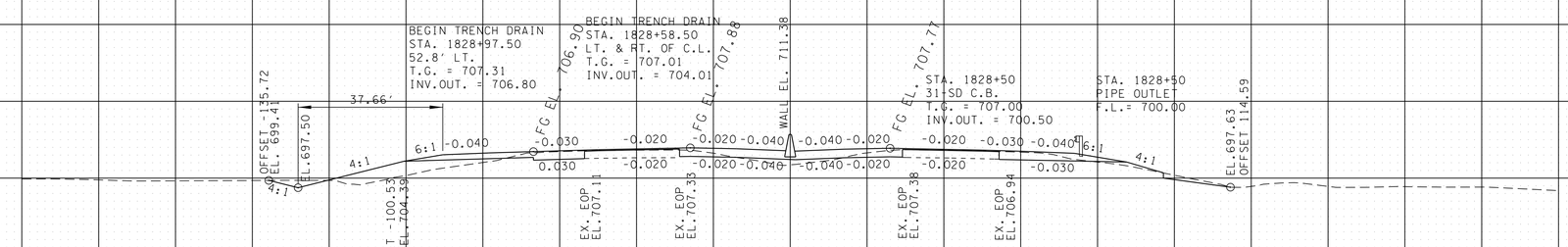
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1829+50.00 CUT 126 FILL 165



UNOFFICIAL SET
NOT FOR BIDDING



1829+00.00 CUT 106 FILL 184

1828+50.00 CUT 128 FILL 136

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1828+50.00
END STA. 1829+50.00

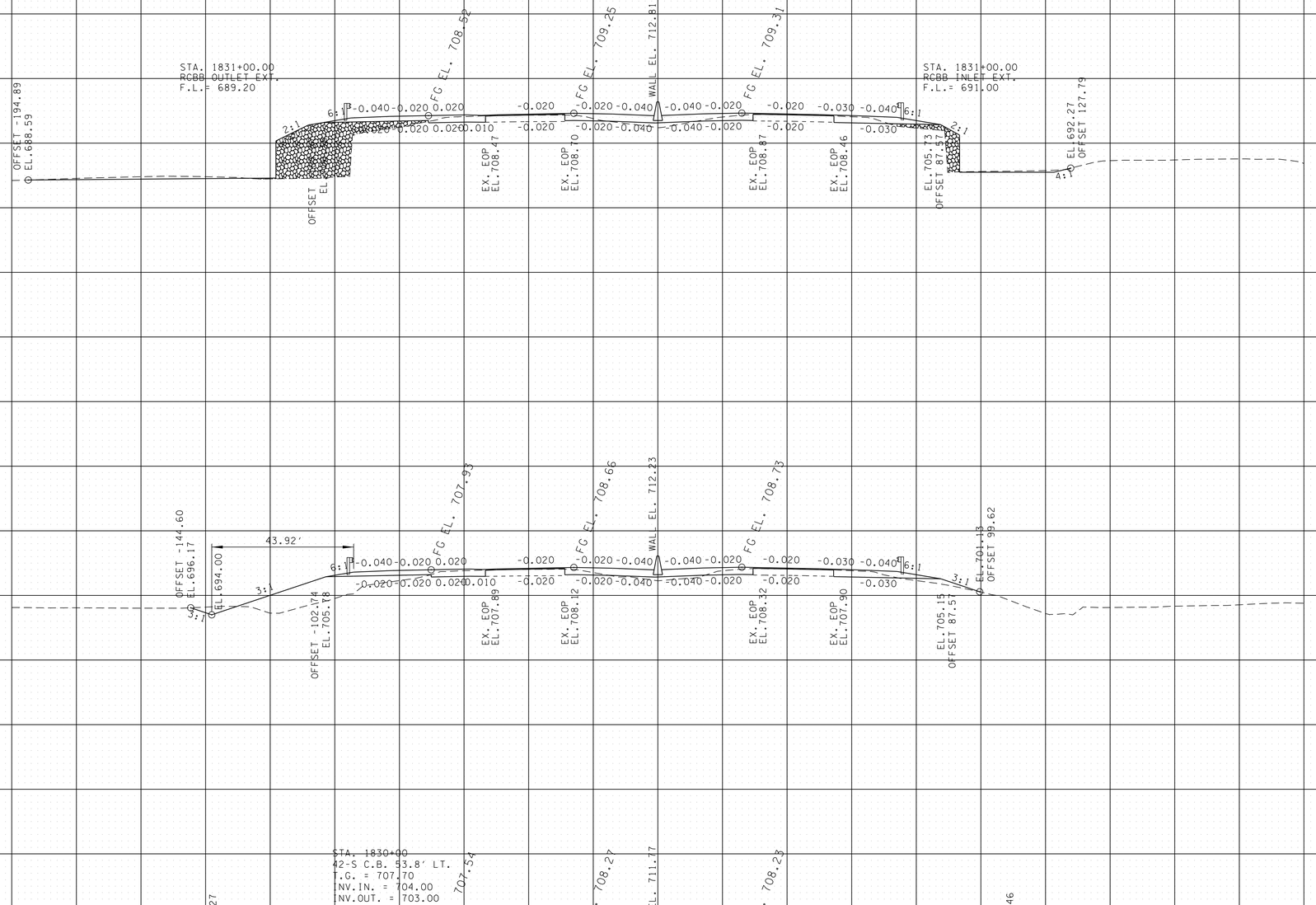
9/24/2014 8:32:37 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	97
CONST.	2014	STP/HPP/NH-I-65-3(113)	151

REV. 04-02-14: ADJUSTED V-DITCH LT. STA. 1830+00 AND 1830+50 BY CHANGING THE SIDE SLOPE, MOVING THE DITCH IN. CHANGED SLOPE TO BOX CULVERT AT STA. 1831+00 TO 2:1.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1831+00.00 CUT 122 FILL 21 GSR 521

1830+50.00 CUT 110 FILL 286

1830+00.00 CUT 108 FILL 191

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

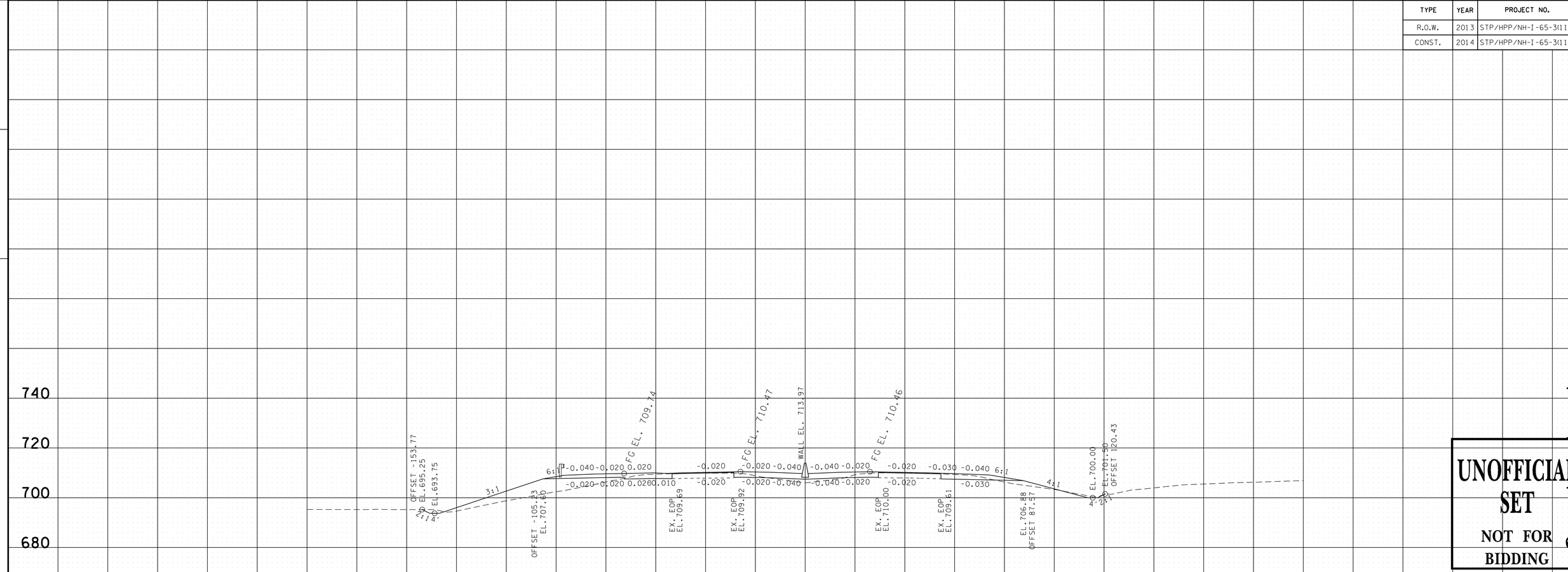
BEGIN STA. 1830+00.00
END STA. 1831+00.00

9/24/2014 8:32:40 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	98
CONST.	2014	STP/HPP/NH-I-65-3(113)	152

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

9/24/2014 8:32:42 AM
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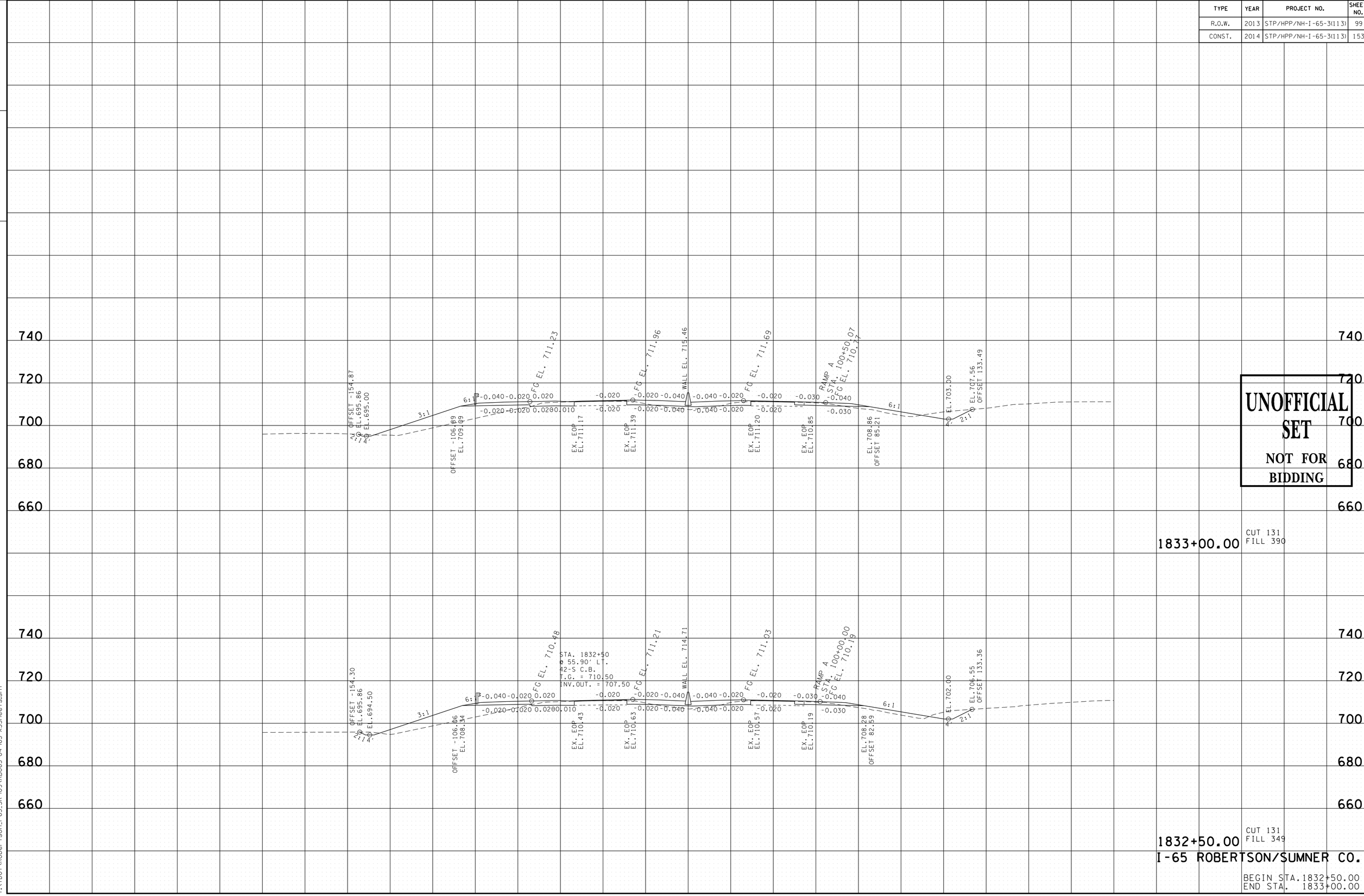
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	99
CONST.	2014	STP/HPP/NH-I-65-3(113)	153

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

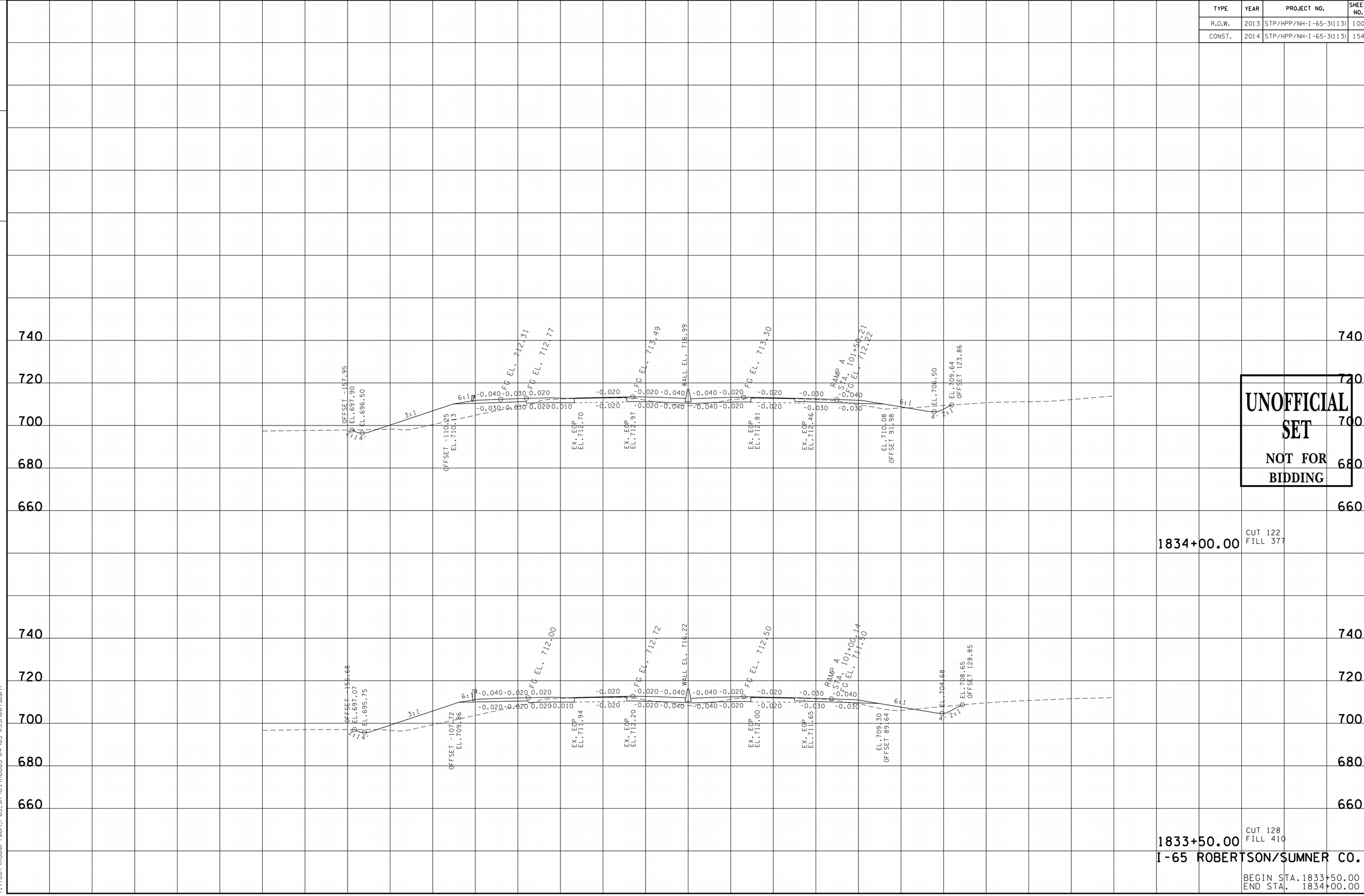
BEGIN STA. 1832+50.00
END STA. 1833+00.00

9/24/2014 8:32:45 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	100
CONST.	2014	STP/HPP/NH-I-65-3(113)	154

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

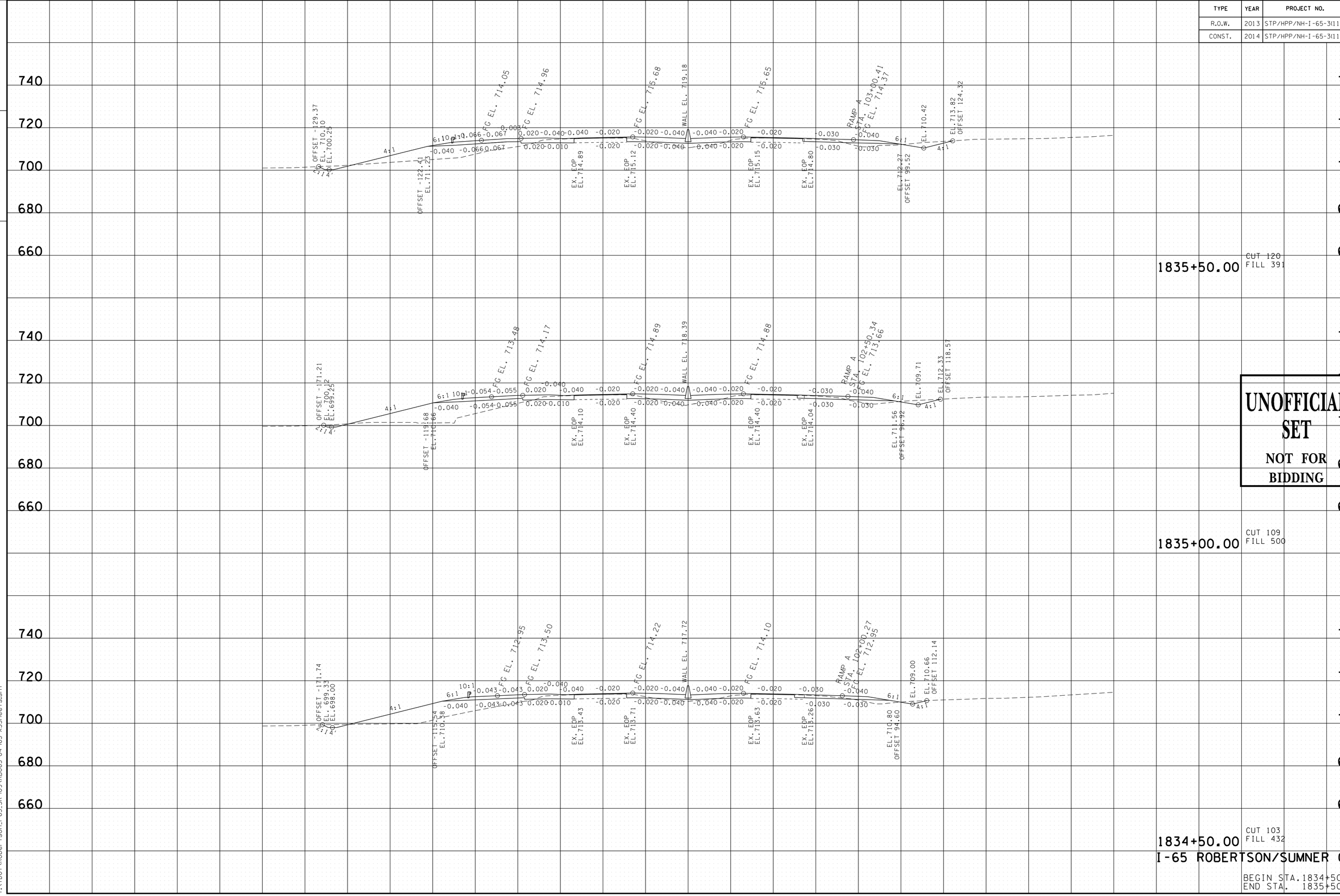
I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1833+50.00
END STA. 1834+00.00

9/24/2014 8:32:47 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	101
CONST.	2014	STP/HPP/NH-I-65-3(113)	155

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

9/24/2014 8:32:50 AM
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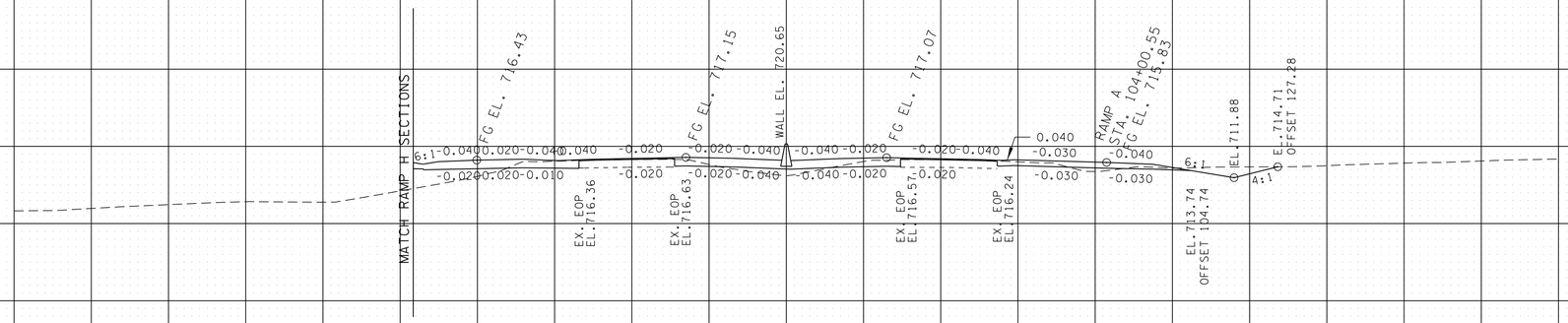
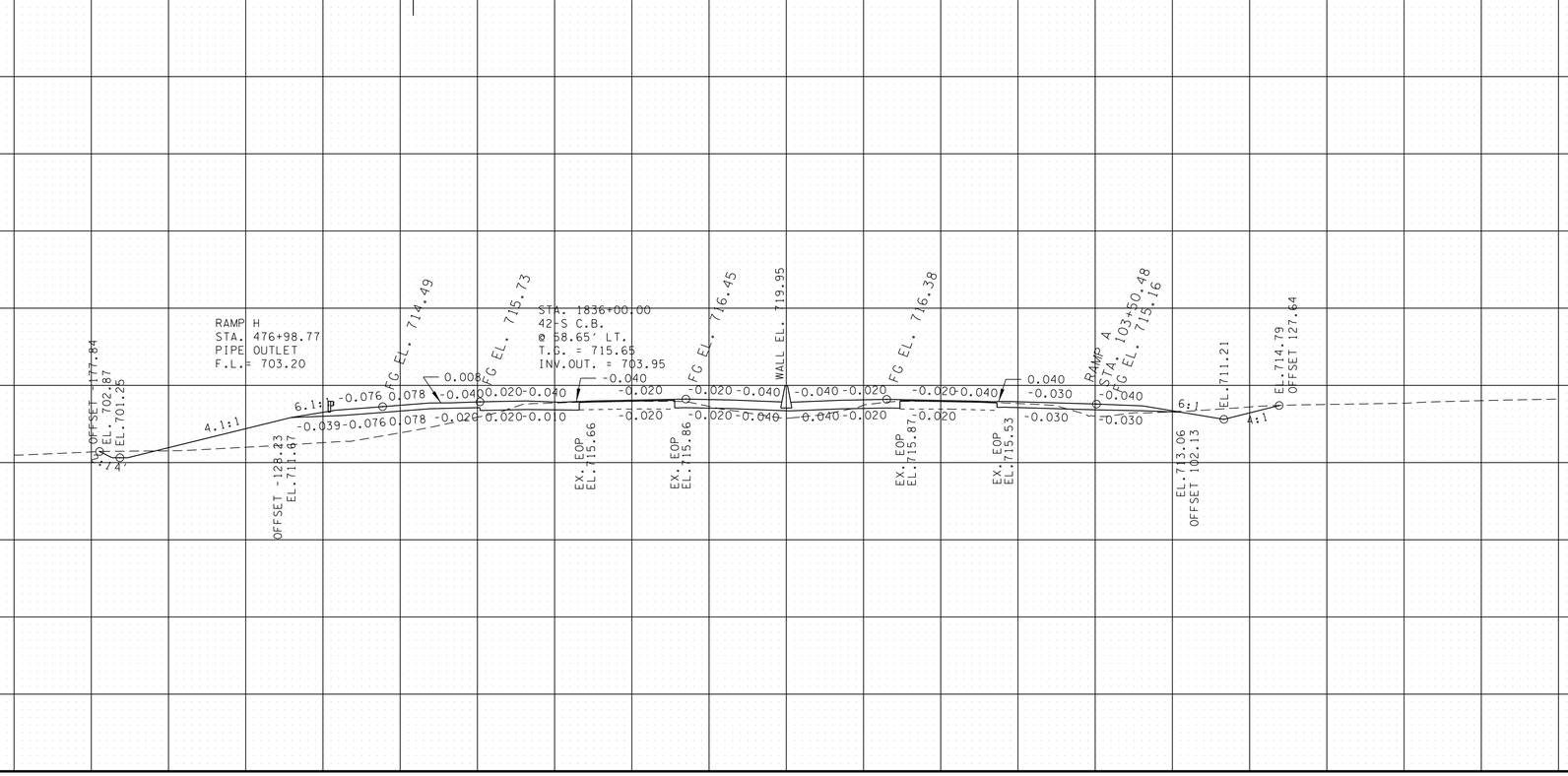
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	102
CONST.	2014	STP/HPP/NH-I-65-3(113)	156

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





UNOFFICIAL SET
NOT FOR BIDDING

1836+50.00 CUT 124 FILL 106

1836+00.00 CUT 124 FILL 472

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1836+00.00
END STA. 1836+50.00

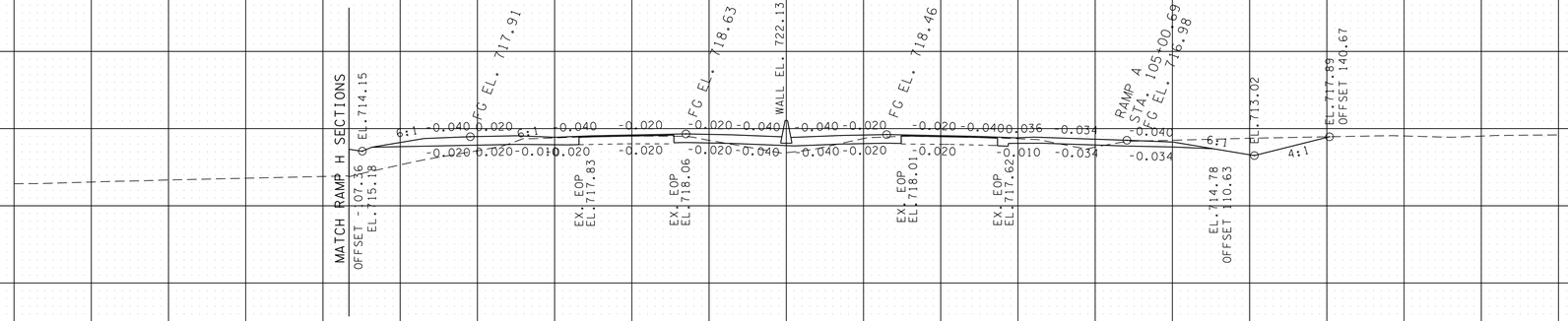
280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:32:53 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

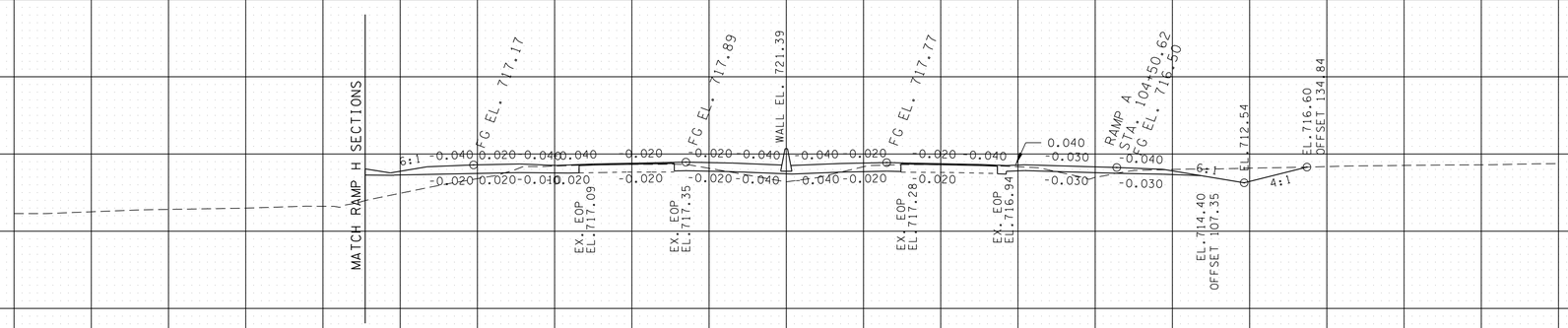
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	103
CONST.	2014	STP/HPP/NH-I-65-3(113)	157

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1837+50.00 CUT 204 FILL 182



1837+00.00 CUT 163 FILL 164

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1837+00.00
END STA. 1837+50.00

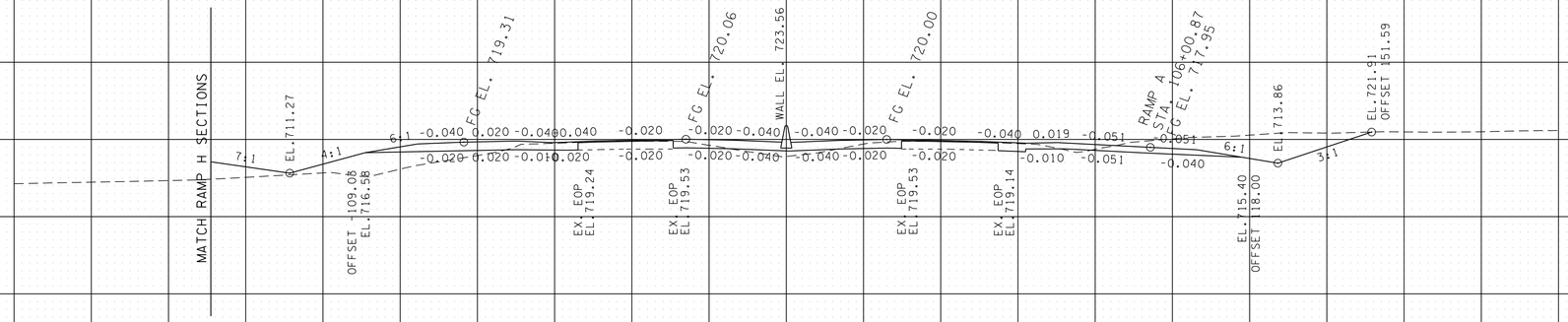
280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:32:56 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

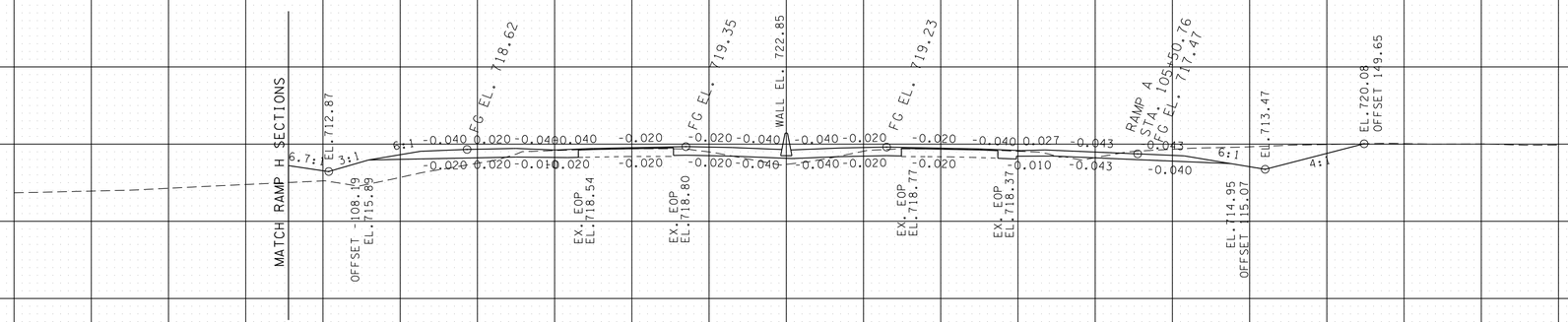
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	104
CONST.	2014	STP/HPP/NH-I-65-3(113)	158

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1838+50.00 CUT 376 FILL 246



1838+00.00 CUT 301 FILL 223

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1838+00.00
END STA. 1838+50.00

9/24/2014 8:32:58 AM
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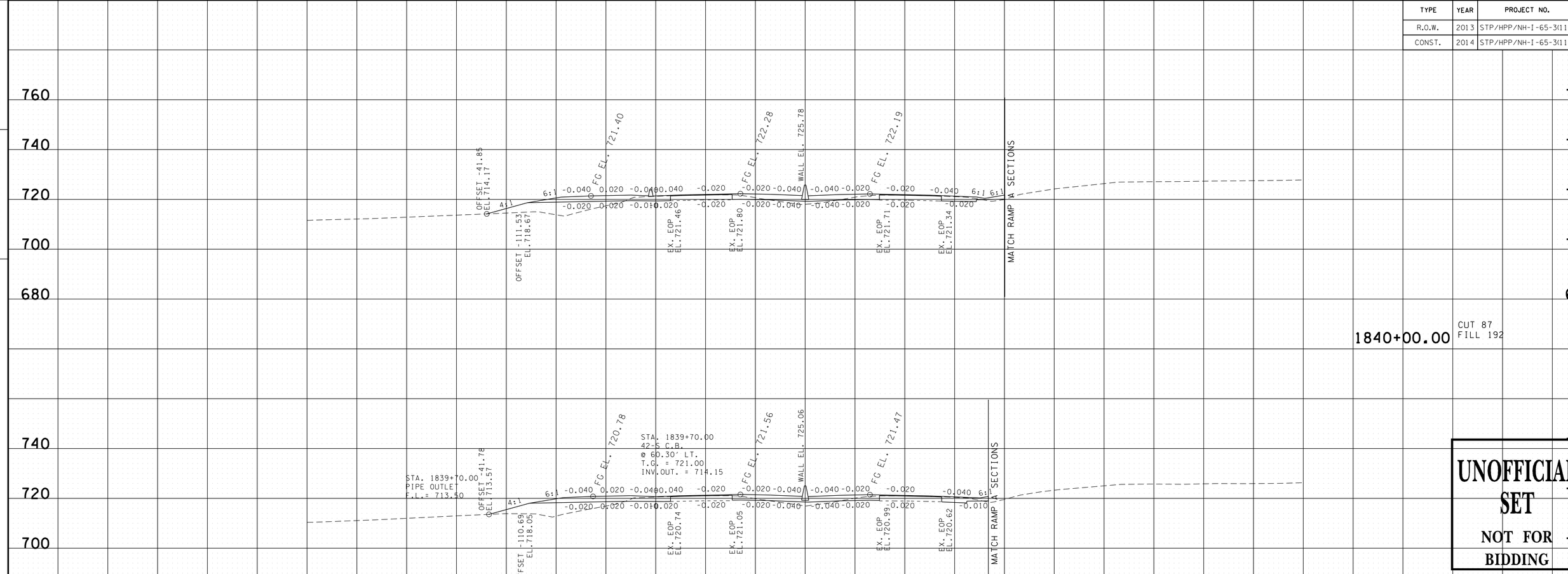
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	105
CONST.	2014	STP/HPP/NH-I-65-3(113)	159

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

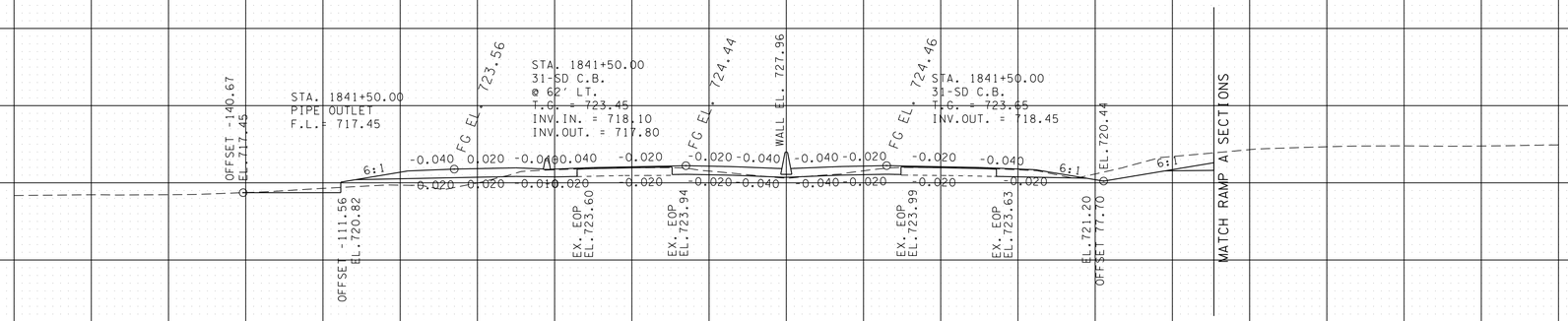
I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1839+00.00
END STA. 1840+00.00

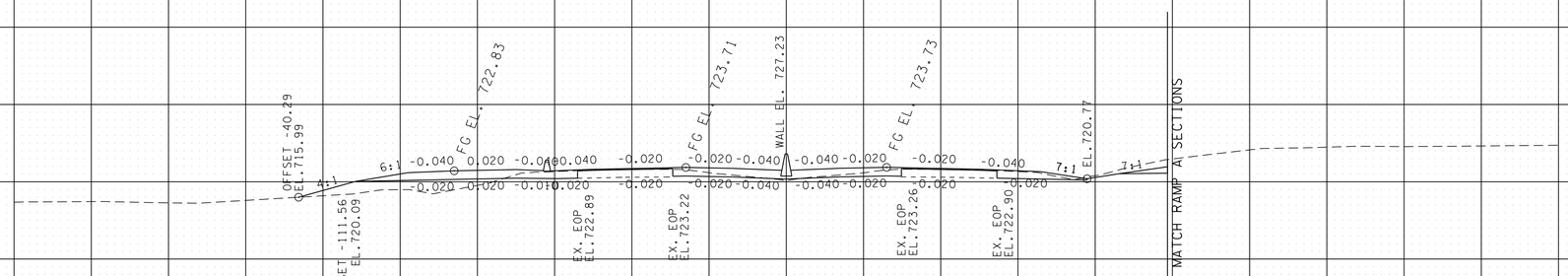
9/24/2014 8:33:01 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	106
CONST.	2014	STP/HPP/NH-I-65-3(113)	160

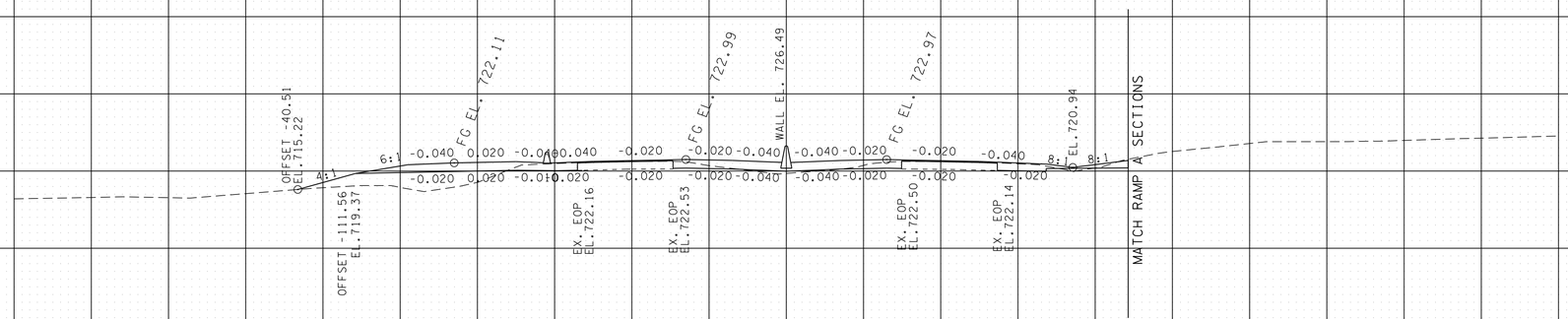
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1841+50.00 CUT 218 FILL 77



1841+00.00 CUT 133 FILL 117



1840+50.00 CUT 94 FILL 172

UNOFFICIAL SET
NOT FOR BIDDING

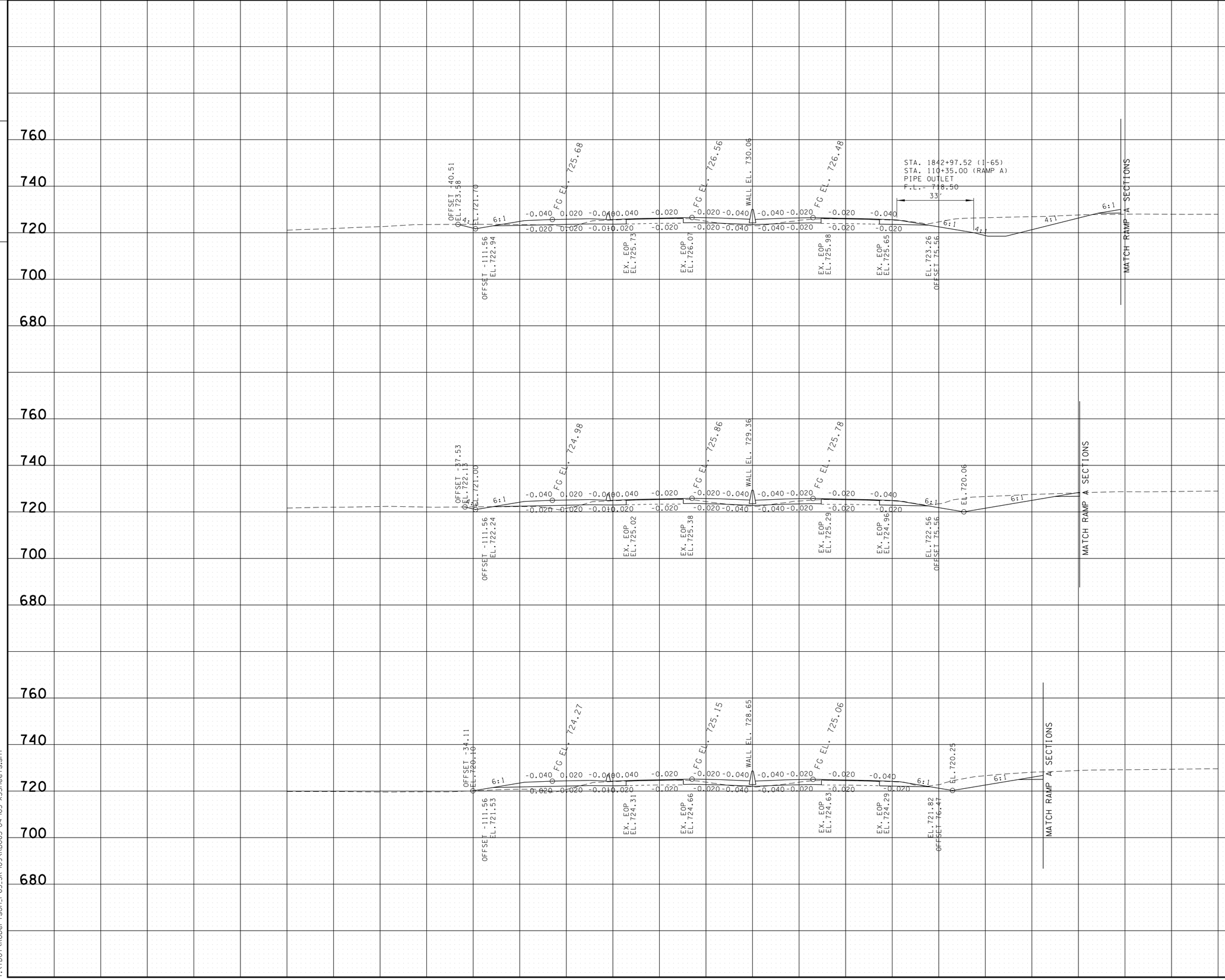
I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1840+50.00
END STA. 1841+50.00

9/24/2014 8:33:03 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	107
CONST.	2014	STP/HPP/NH-I-65-3(113)	161

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

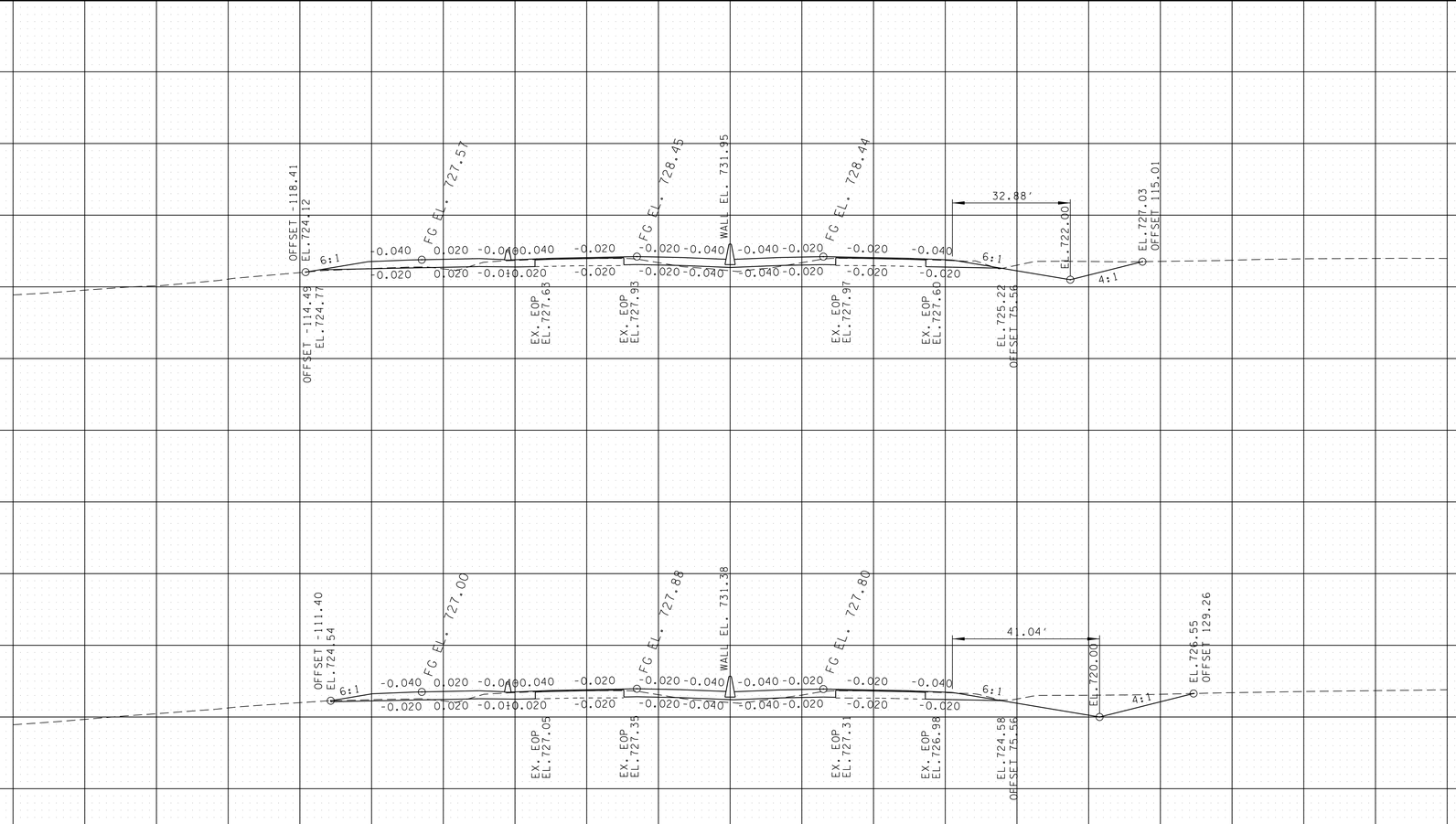
I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1842+00.00
END STA. 1843+00.00

9/24/2014 8:33:06 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	108
CONST.	2014	STP/HPP/NH-I-65-3(113)	162

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

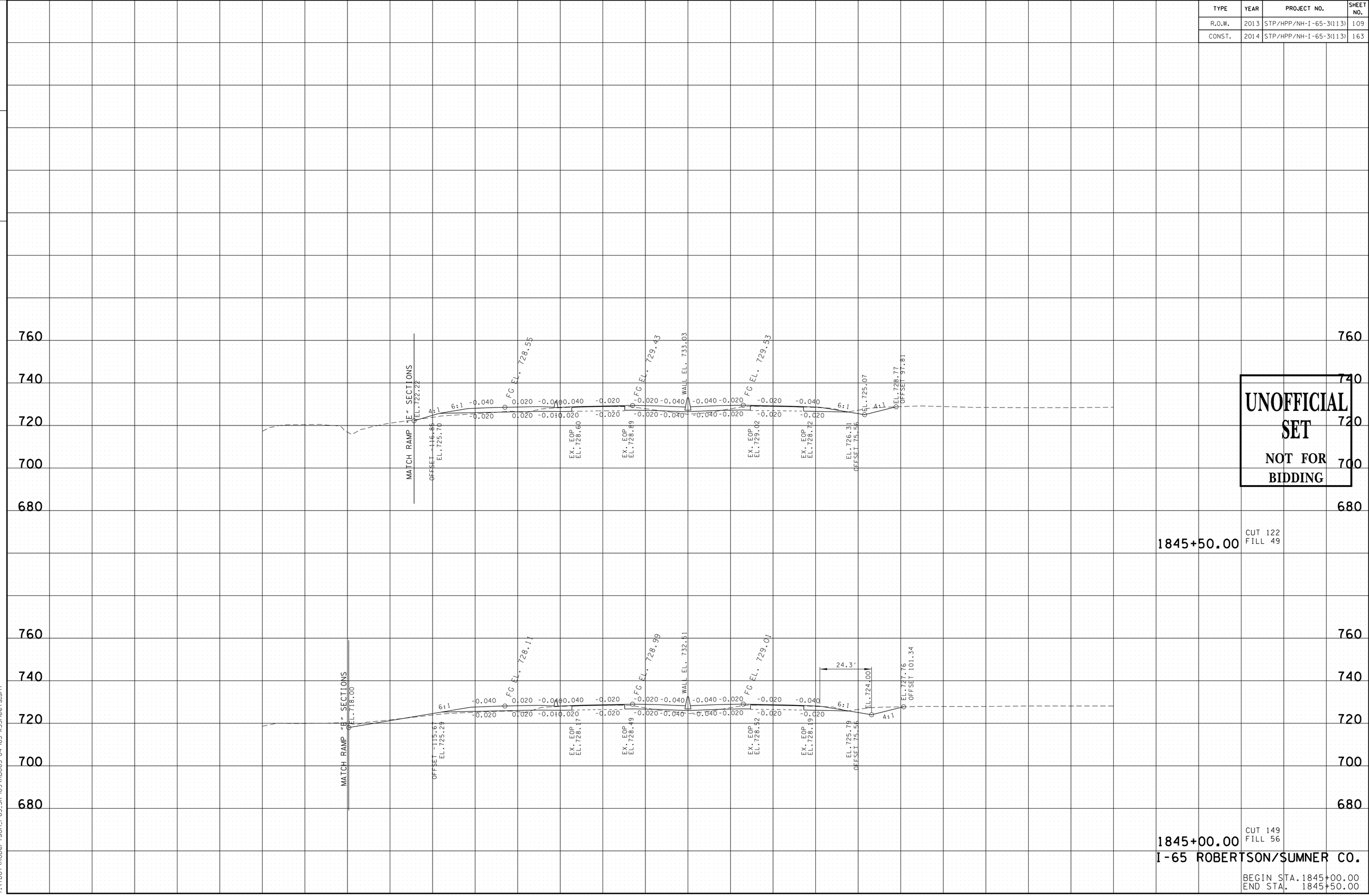
I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1843+50.00
END STA. 1844+50.00

9/24/2014 8:33:09 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	109
CONST.	2014	STP/HPP/NH-I-65-3(113)	163

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

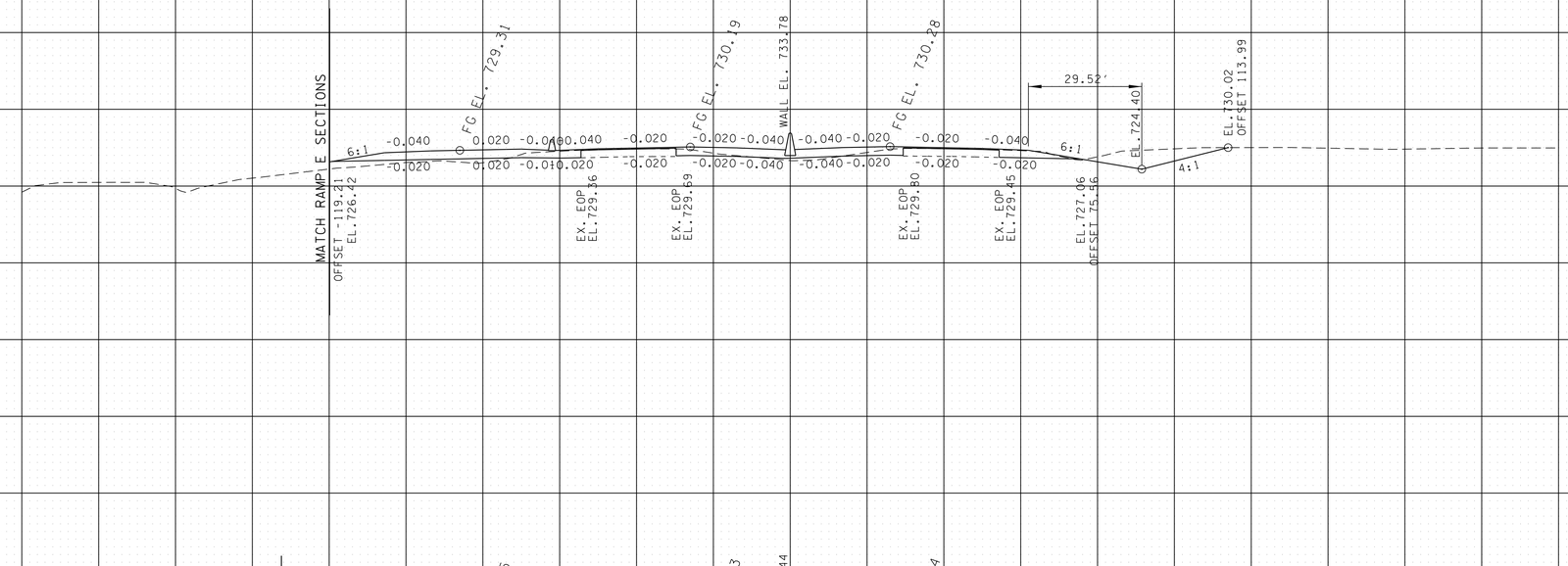
BEGIN STA. 1845+00.00
END STA. 1845+50.00

9/24/2014 8:33:11 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	110
CONST.	2014	STP/HPP/NH-I-65-3(113)	164

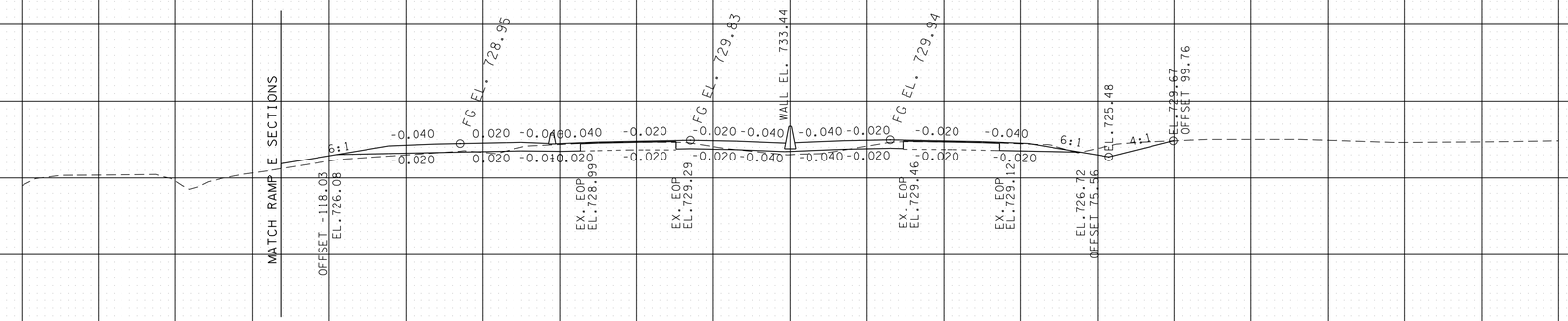
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

1846+50.00 CUT 185 FILL 57



1846+00.00 CUT 128 FILL 58

I-65 ROBERTSON/SUMNER CO.

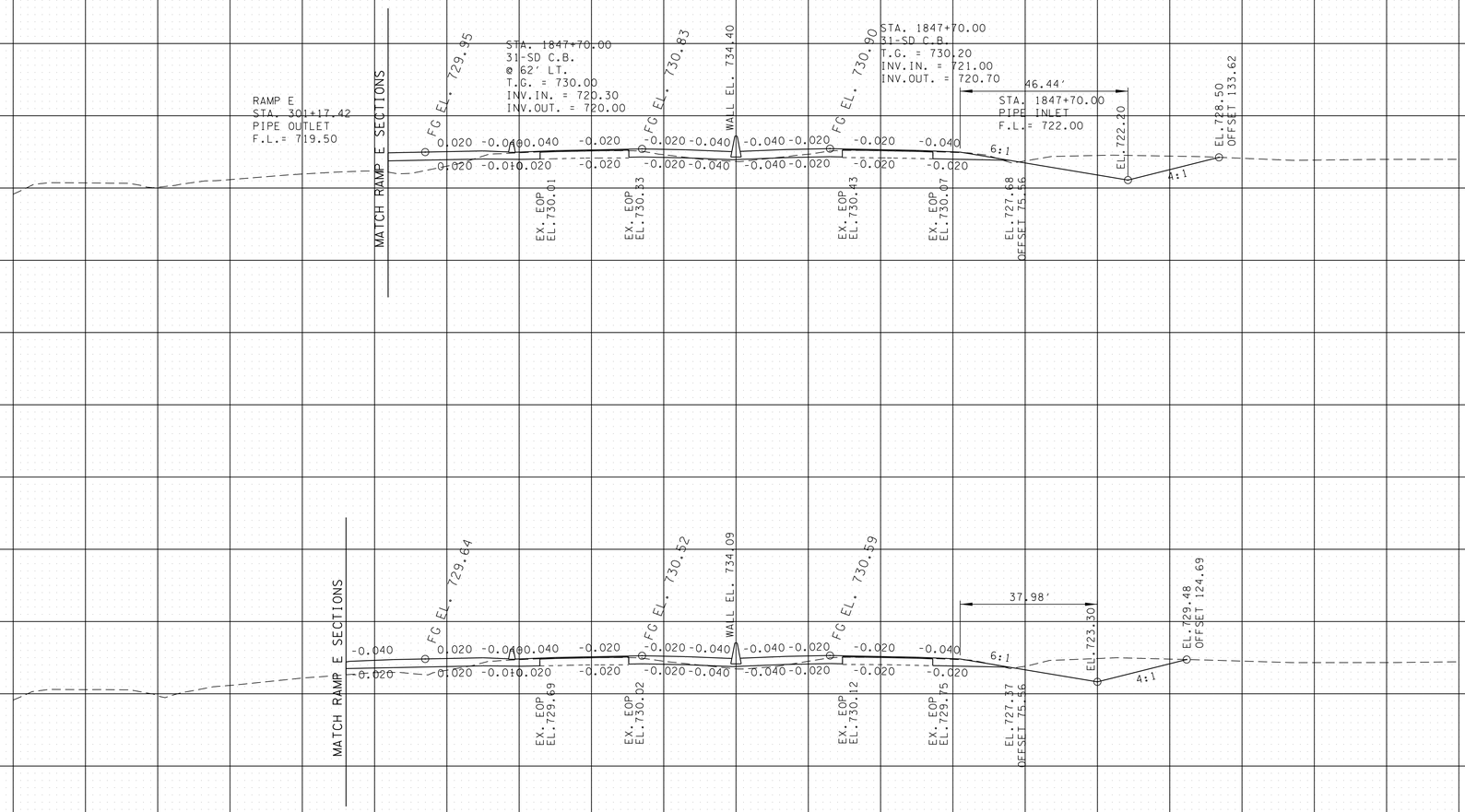
BEGIN STA. 1846+00.00
END STA. 1846+50.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:14 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	111
CONST.	2014	STP/HPP/NH-I-65-3(113)	165

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1847+50.00 CUT 297 FILL 67

1847+00.00 CUT 256 FILL 59

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1847+00.00
END STA. 1847+50.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

UNOFFICIAL SET
NOT FOR BIDDING

9/24/2014 8:33:17 AM
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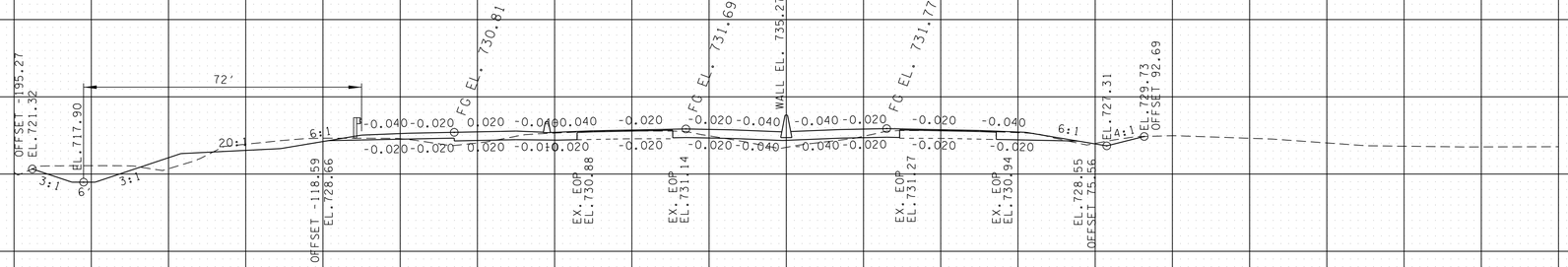
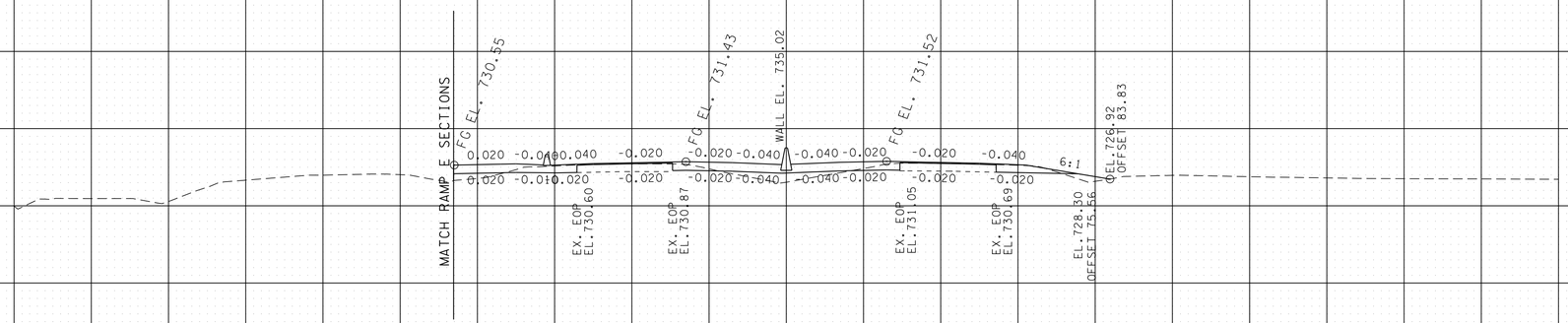
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	112
CONST.	2014	STP/HPP/NH-I-65-3(113)	166

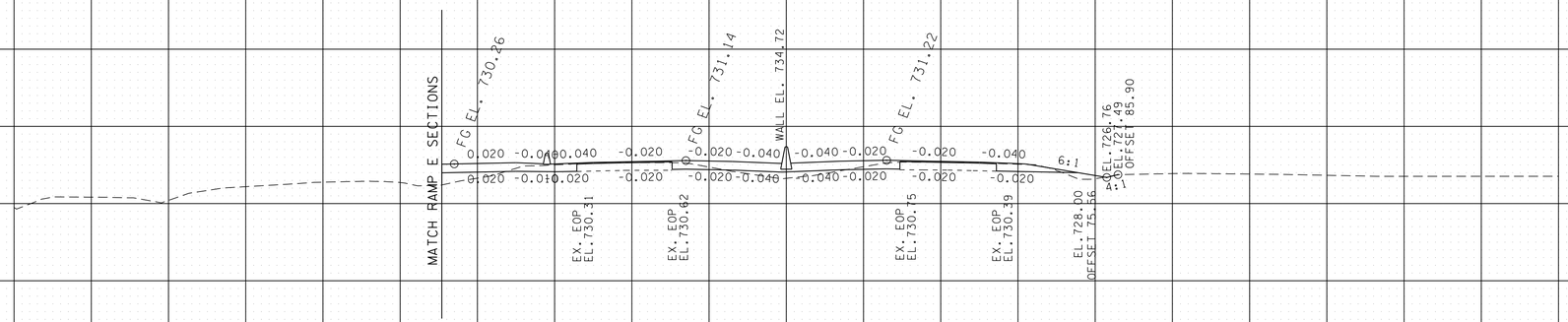
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1849+00.00 CUT 219 FILL 95



UNOFFICIAL SET
NOT FOR BIDDING



1848+50.00 CUT 79 FILL 75

1848+00.00 CUT 82 FILL 71

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1848+00.00
END STA. 1849+00.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:19 AM
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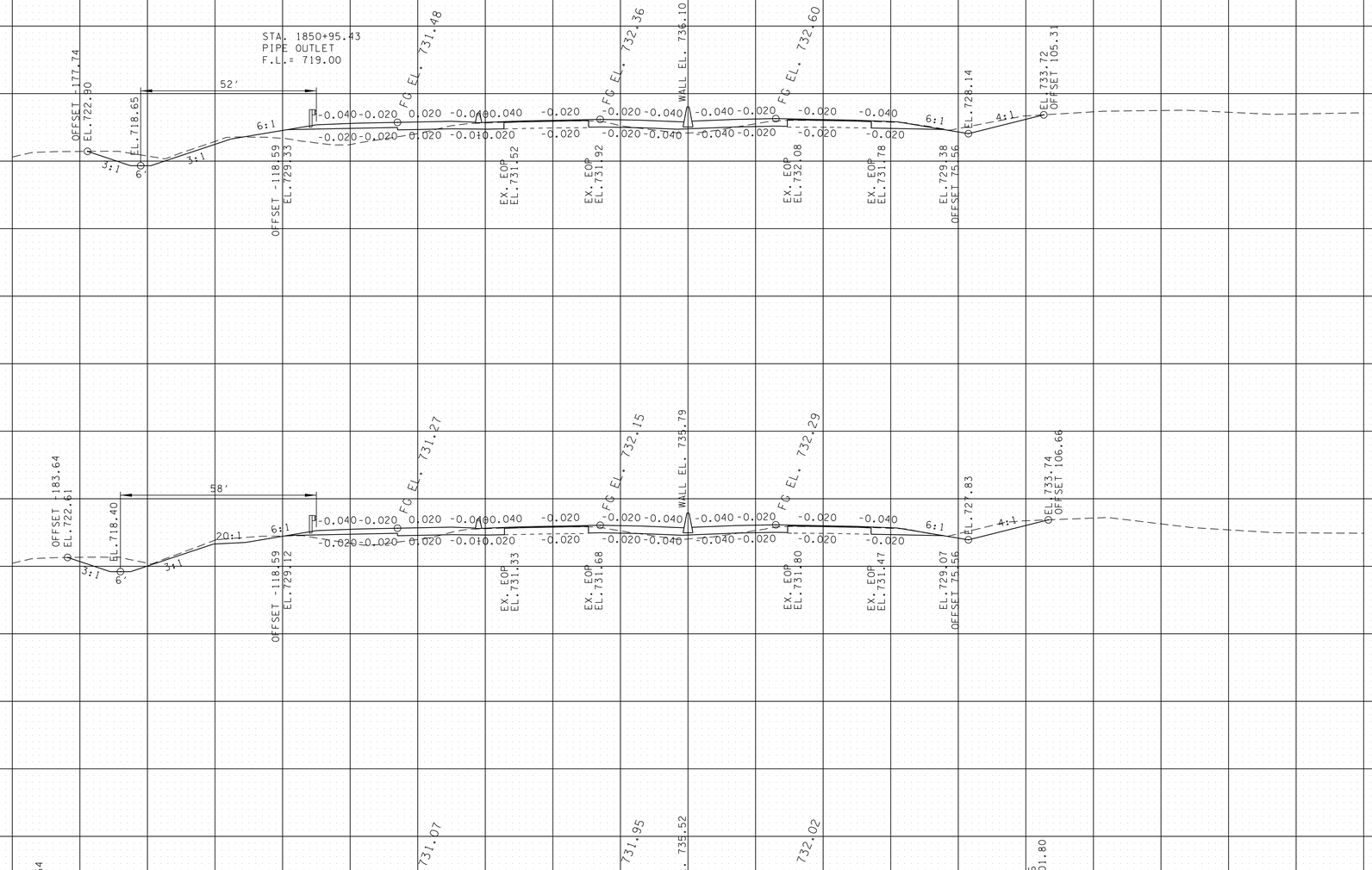
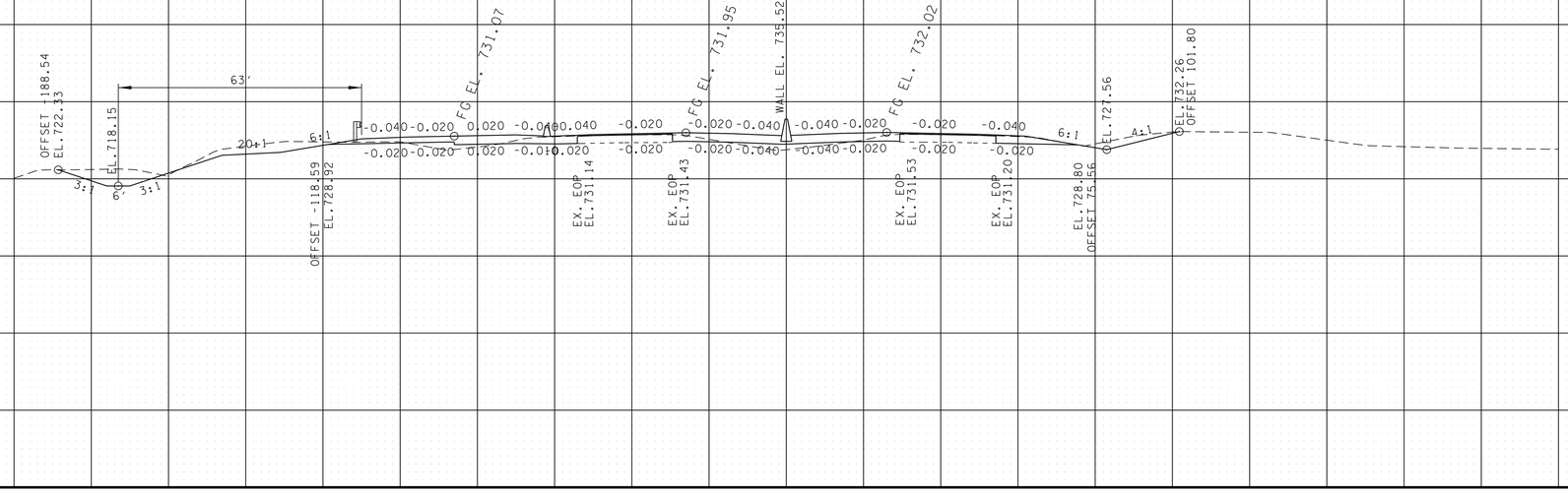
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	113
CONST.	2014	STP/HPP/NH-I-65-3(113)	167

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1850+50.00 CUT 193 FILL 182

1850+00.00 CUT 233 FILL 102



1849+50.00 CUT 259 FILL 55

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1849+50.00
END STA. 1850+50.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:22 AM
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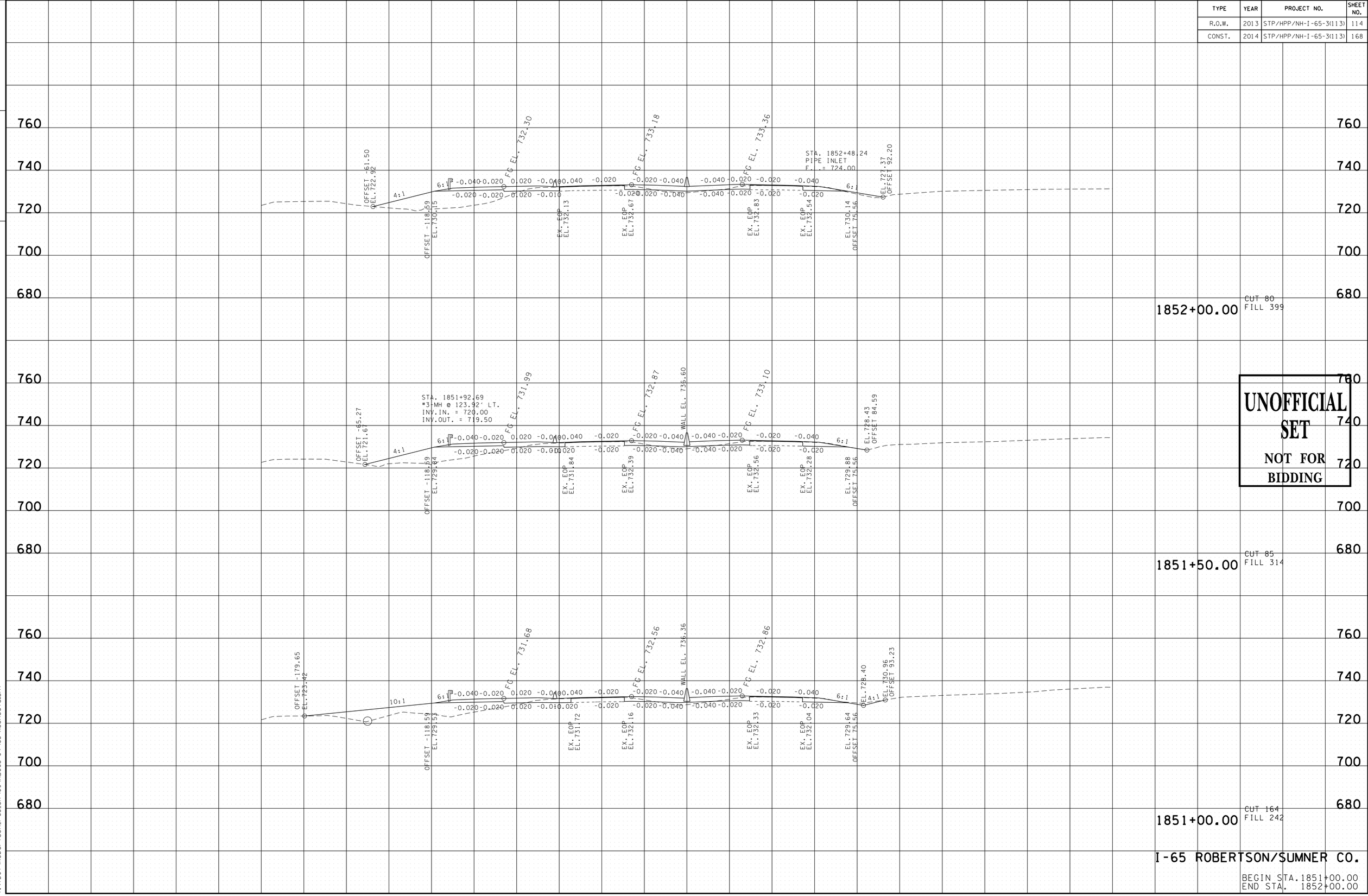
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	114
CONST.	2014	STP/HPP/NH-I-65-3(113)	168

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1851+00.00
END STA. 1852+00.00

9/24/2014 8:33:25 AM
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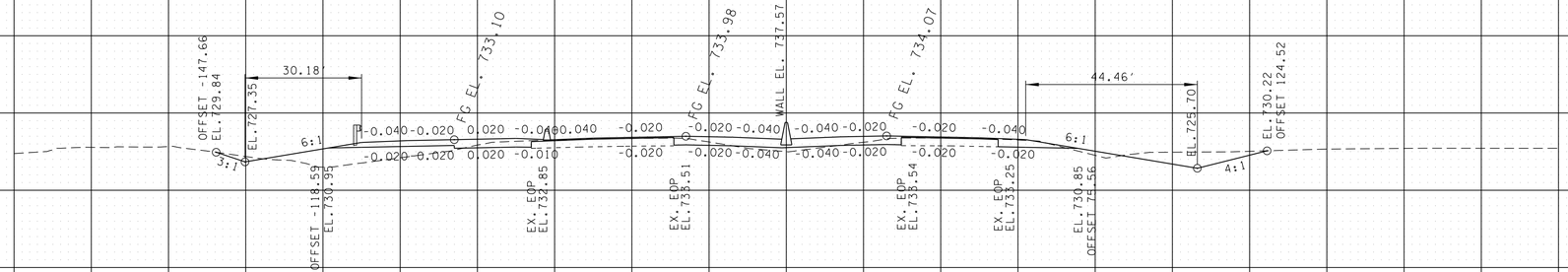
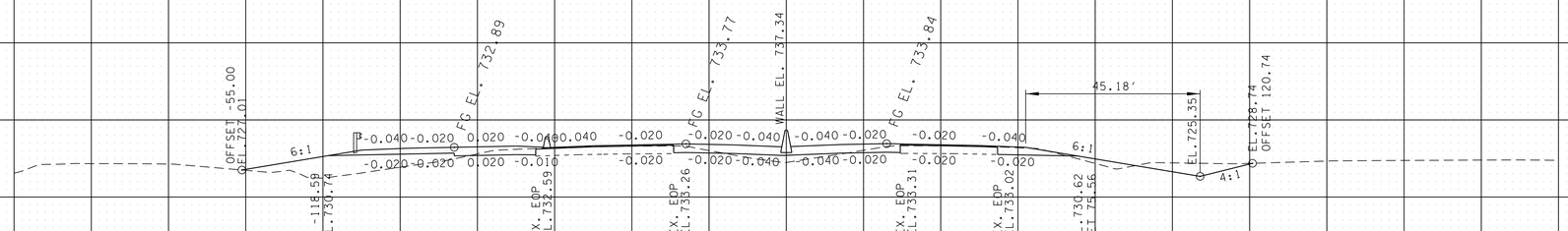
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	115
CONST.	2014	STP/HPP/NH-I-65-3(113)	169

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

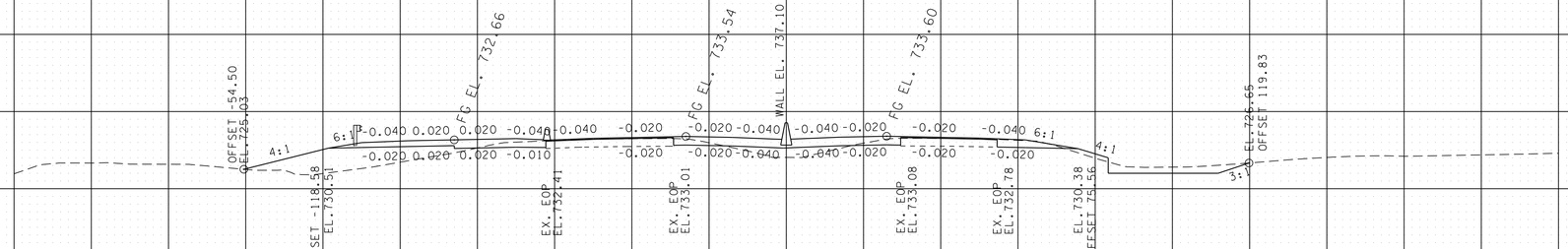


1853+50.00 CUT 172 FILL 172



UNOFFICIAL SET
NOT FOR BIDDING

1853+00.00 CUT 130 FILL 235



1852+50.00 CUT 134 FILL 283

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1852+50.00
END STA. 1853+50.00

760 740 720 700 680

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:36 AM
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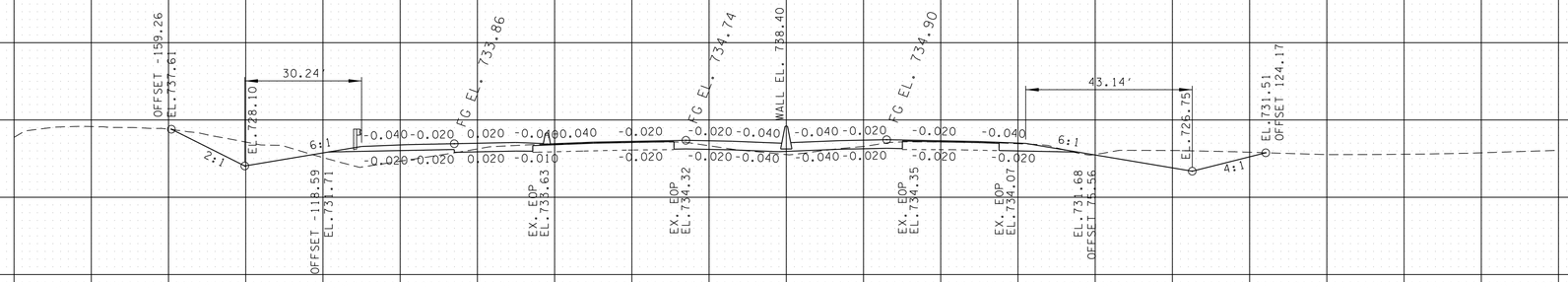
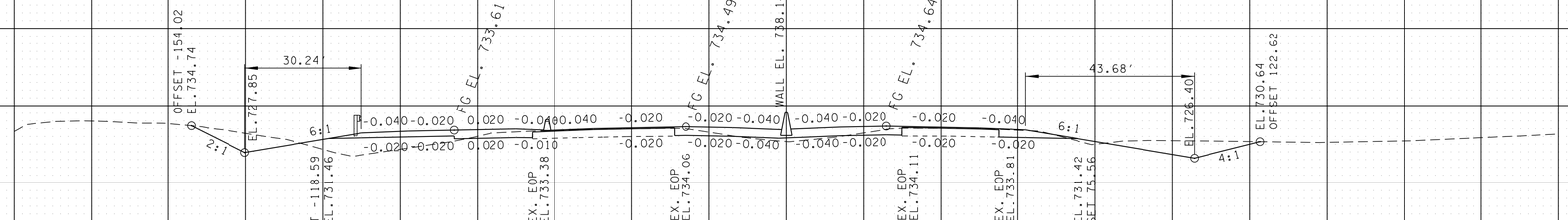
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	116
CONST.	2014	STP/HPP/NH-I-65-3(113)	170

TENNESSEE D.O.T.
DESIGN DIVISION

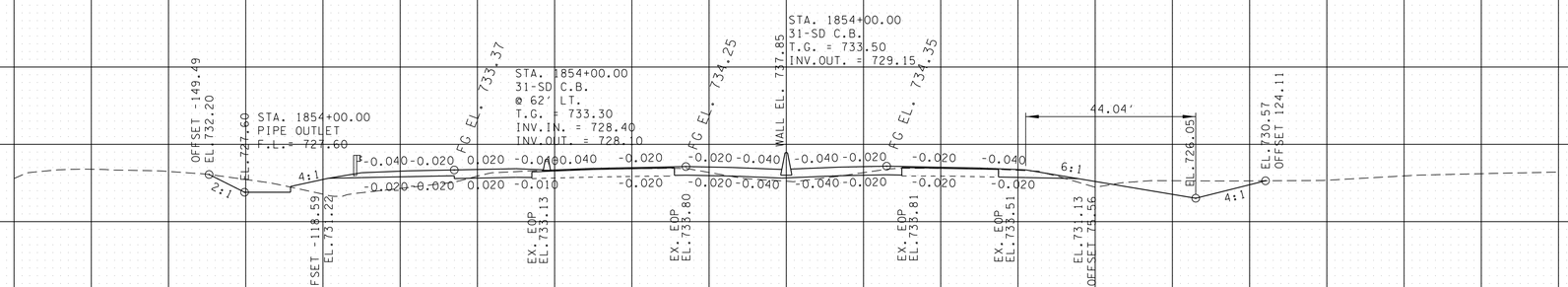
FILE NO.



1855+00.00 CUT 335 FILL 102



1854+50.00 CUT 247 FILL 140



1854+00.00 CUT 216 FILL 159

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1854+00.00
END STA. 1855+00.00

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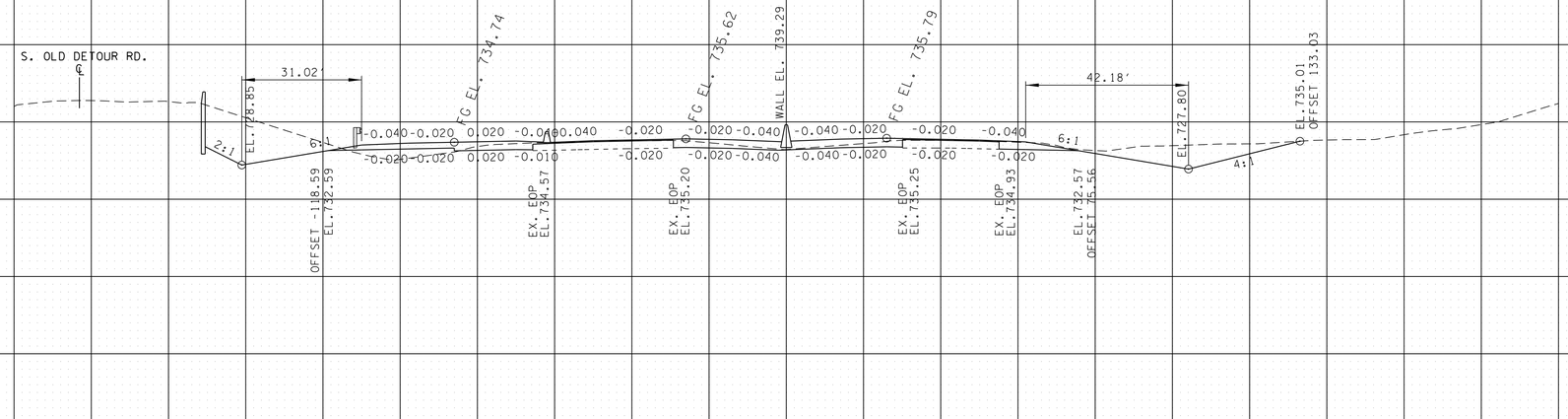
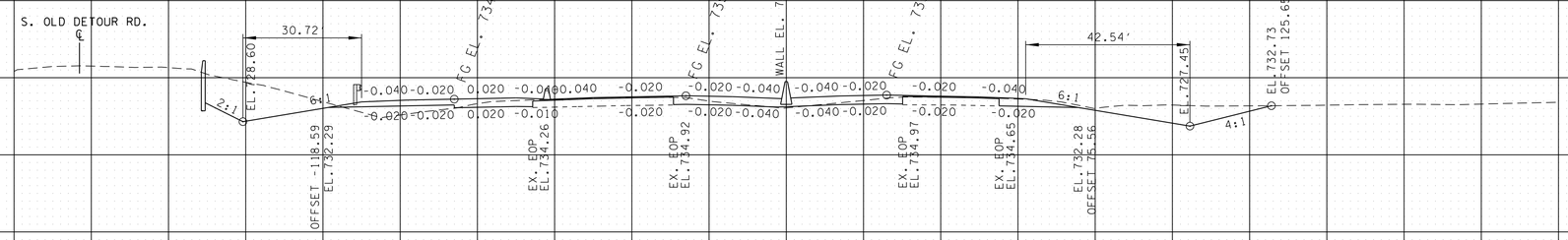
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	117
CONST.	2014	STP/HPP/NH-I-65-3(113)	171

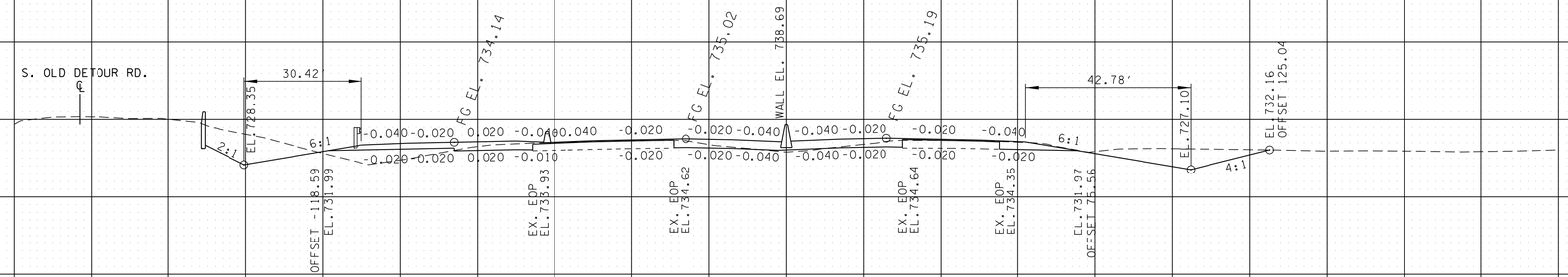
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1856+50.00 CUT 572 FILL 51



UNOFFICIAL SET
NOT FOR BIDDING



1856+00.00 CUT 466 FILL 52

1855+50.00 CUT 374 FILL 85

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1855+50.00
END STA. 1856+50.00

9/24/2014 8:33:41 AM
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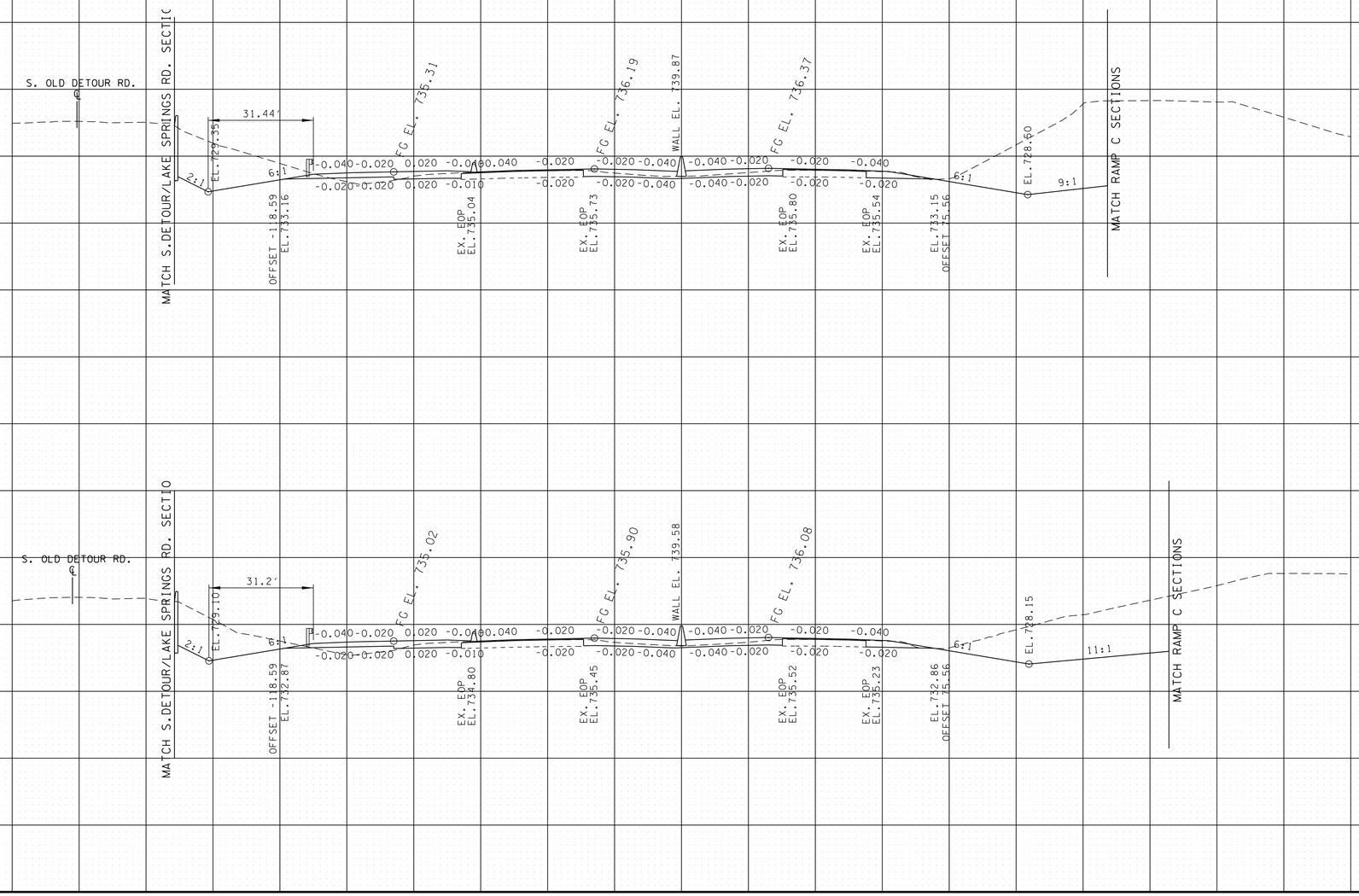
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	118
CONST.	2014	STP/HPP/NH-I-65-3(113)	172

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1857+00.00
END STA. 1857+50.00

9/24/2014 8:33:43 AM
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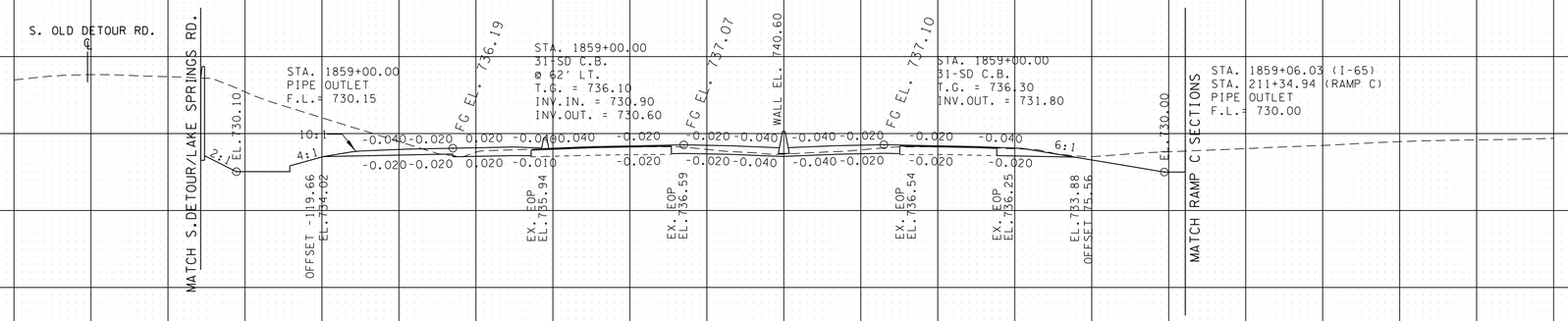
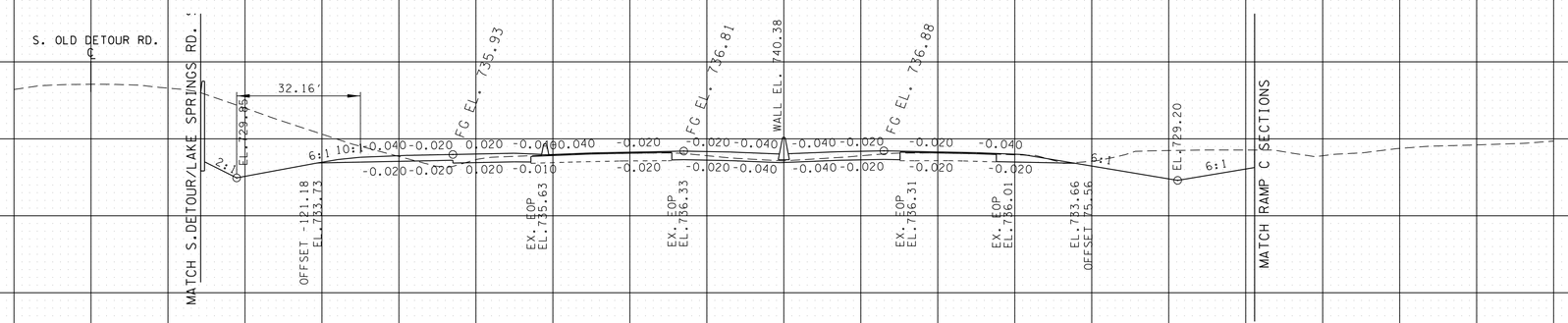
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	119
CONST.	2014	STP/HPP/NH-I-65-3(113)	173

TENNESSEE D.O.T.
DESIGN DIVISION

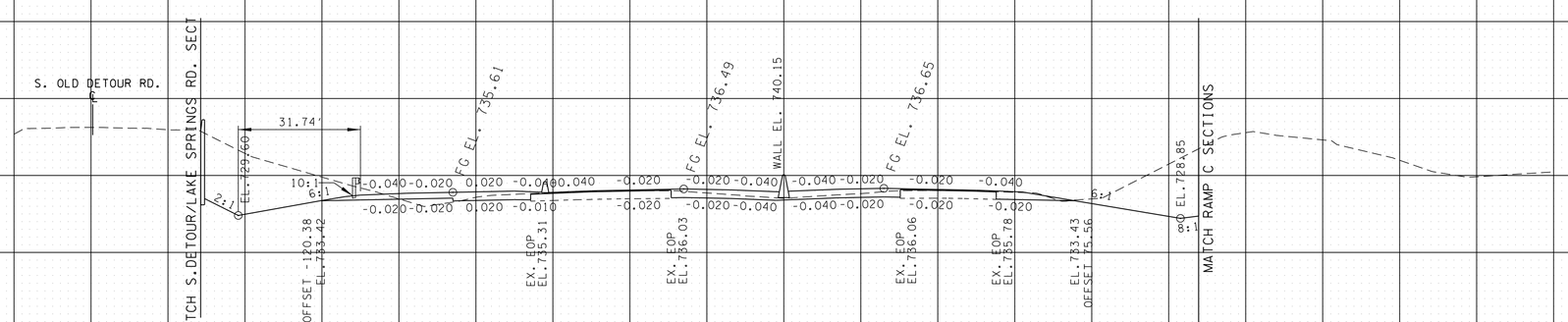
FILE NO.



1859+00.00 CUT 921 FILL 3



1858+50.00 CUT 890 FILL 14



1858+00.00 CUT 846 FILL 21

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1858+00.00
END STA. 1859+00.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:46 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	120
CONST.	2014	STP/HPP/NH-I-65-3(113)	174

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1859+50.00
END STA. 1860+50.00

9/24/2014 8:33:49 AM
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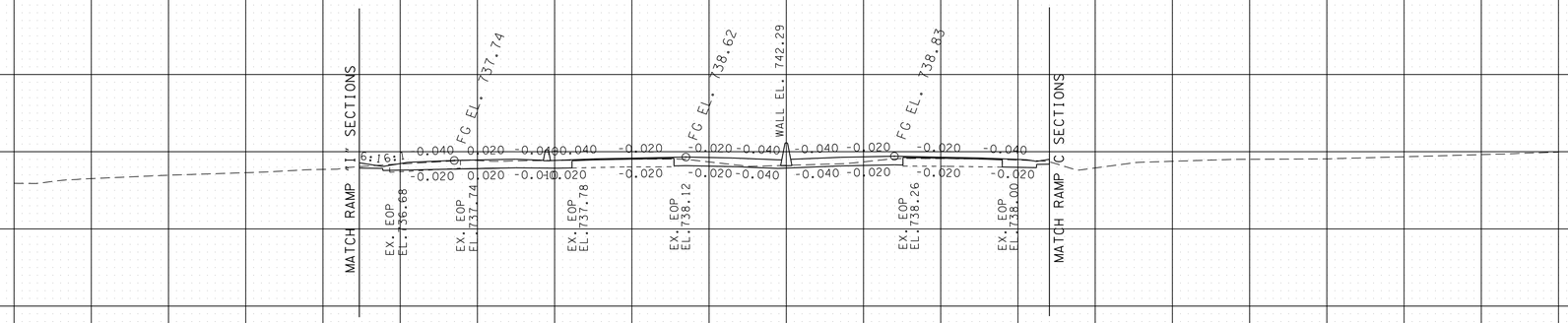
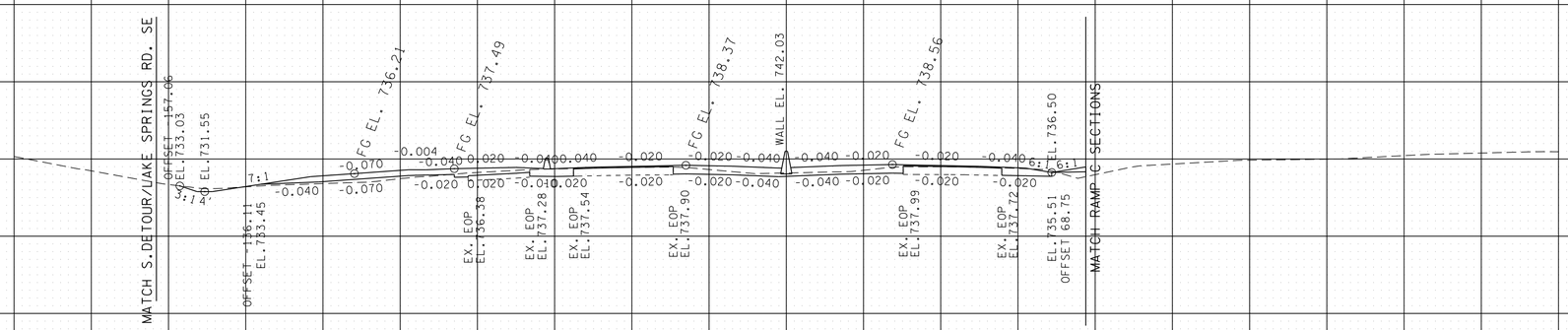
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	121
CONST.	2014	STP/HPP/NH-I-65-3(113)	175

TENNESSEE D.O.T.
DESIGN DIVISION

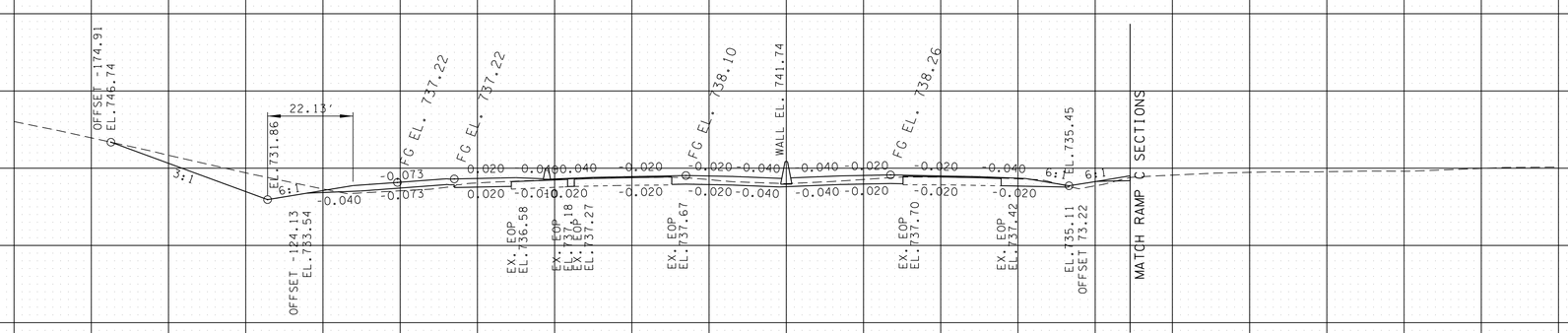
FILE NO.



1862+00.00 CUT 168 FILL 3



1861+50.00 CUT 128 FILL 38



1861+00.00 CUT 278 FILL 31

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1861+00.00
END STA. 1862+00.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:51 AM
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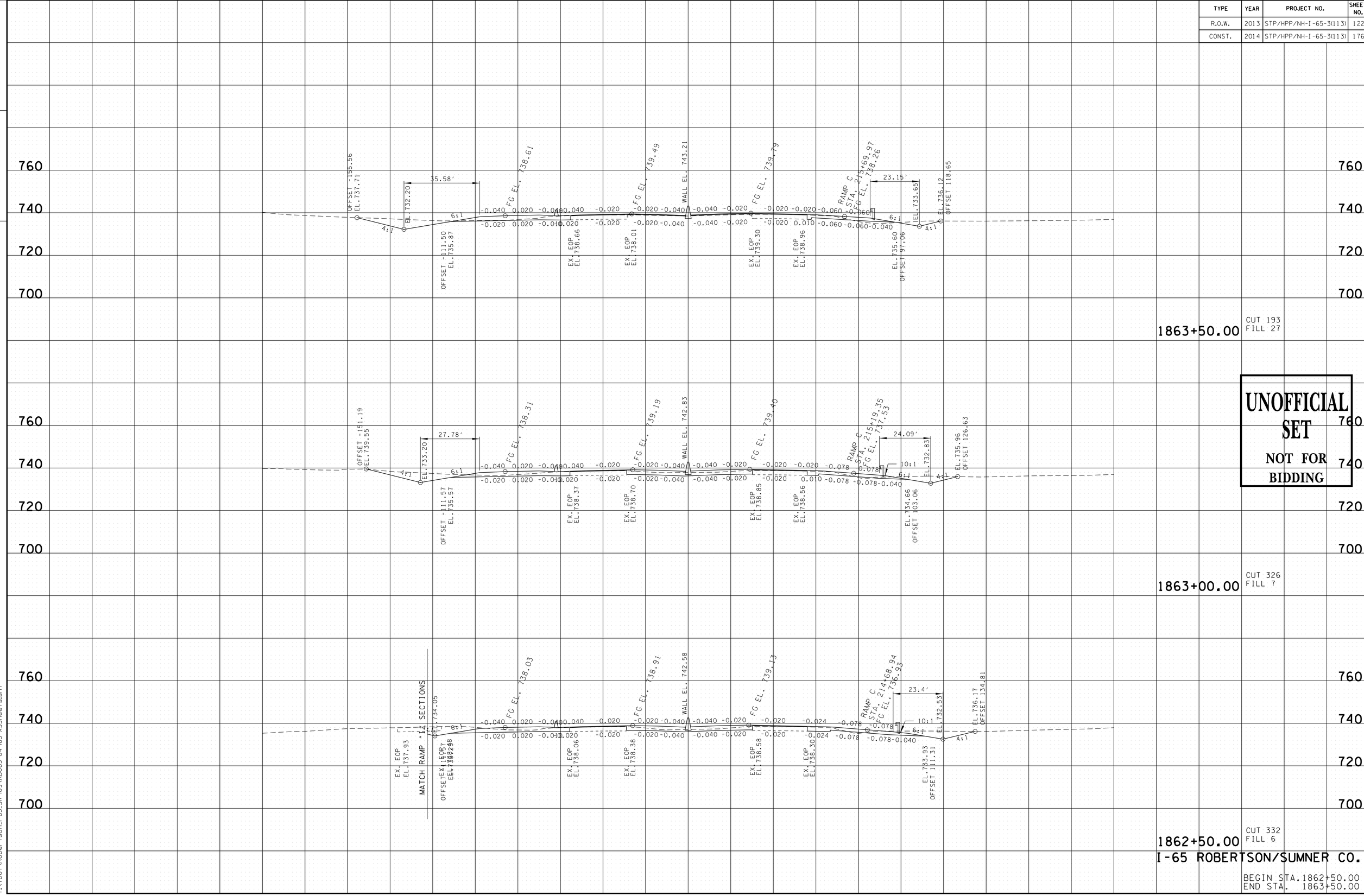
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	122
CONST.	2014	STP/HPP/NH-I-65-3(113)	176

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1862+50.00
END STA. 1863+50.00

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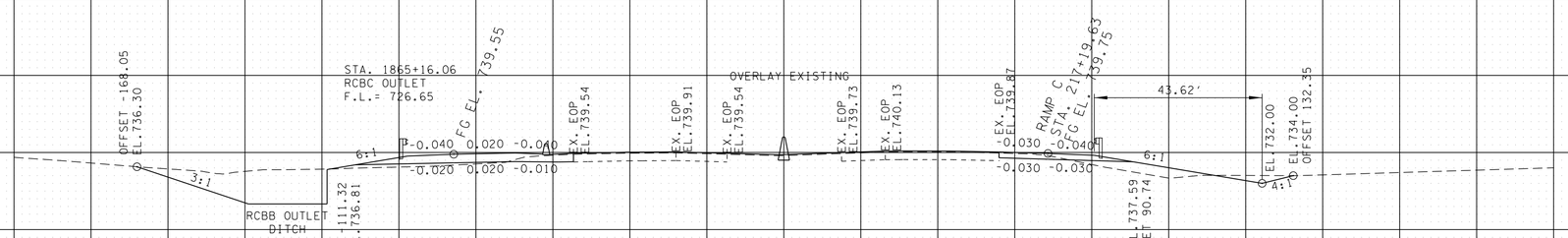
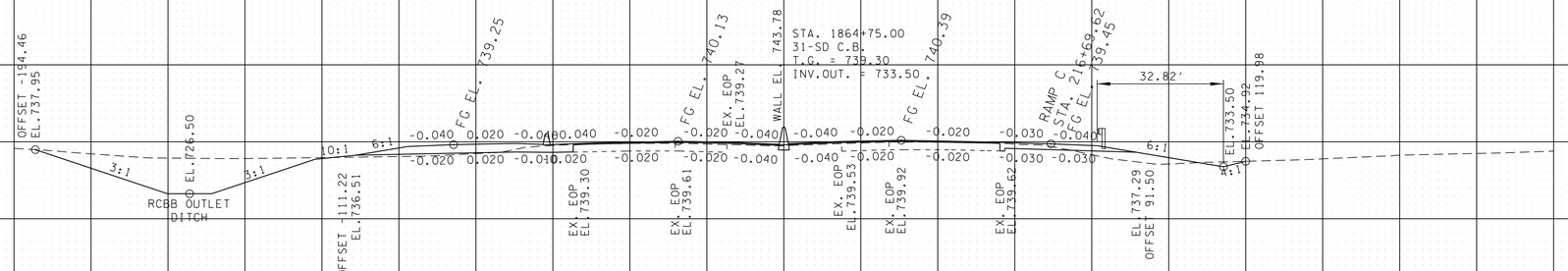
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	123
CONST.	2014	STP/HPP/NH-I-65-3(113)	177

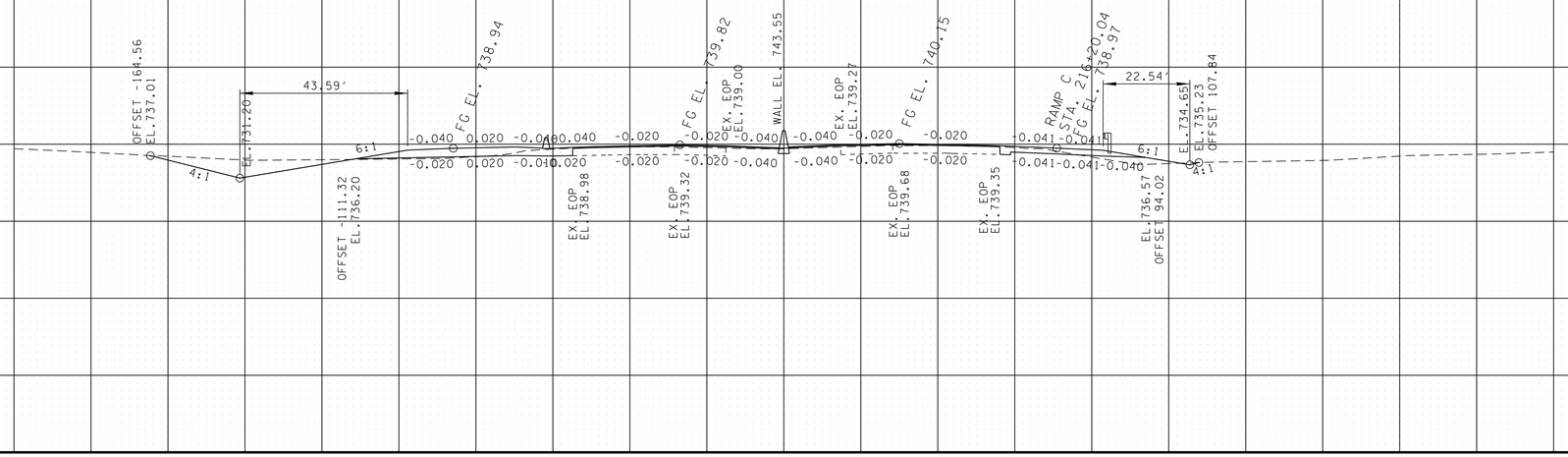
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1865+00.00 CUT 747 FILL 130



1864+50.00 CUT 442 FILL 84



1864+00.00 CUT 174 FILL 51

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1864+00.00
END STA. 1865+00.00

UNOFFICIAL SET
NOT FOR BIDDING

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:33:57 AM
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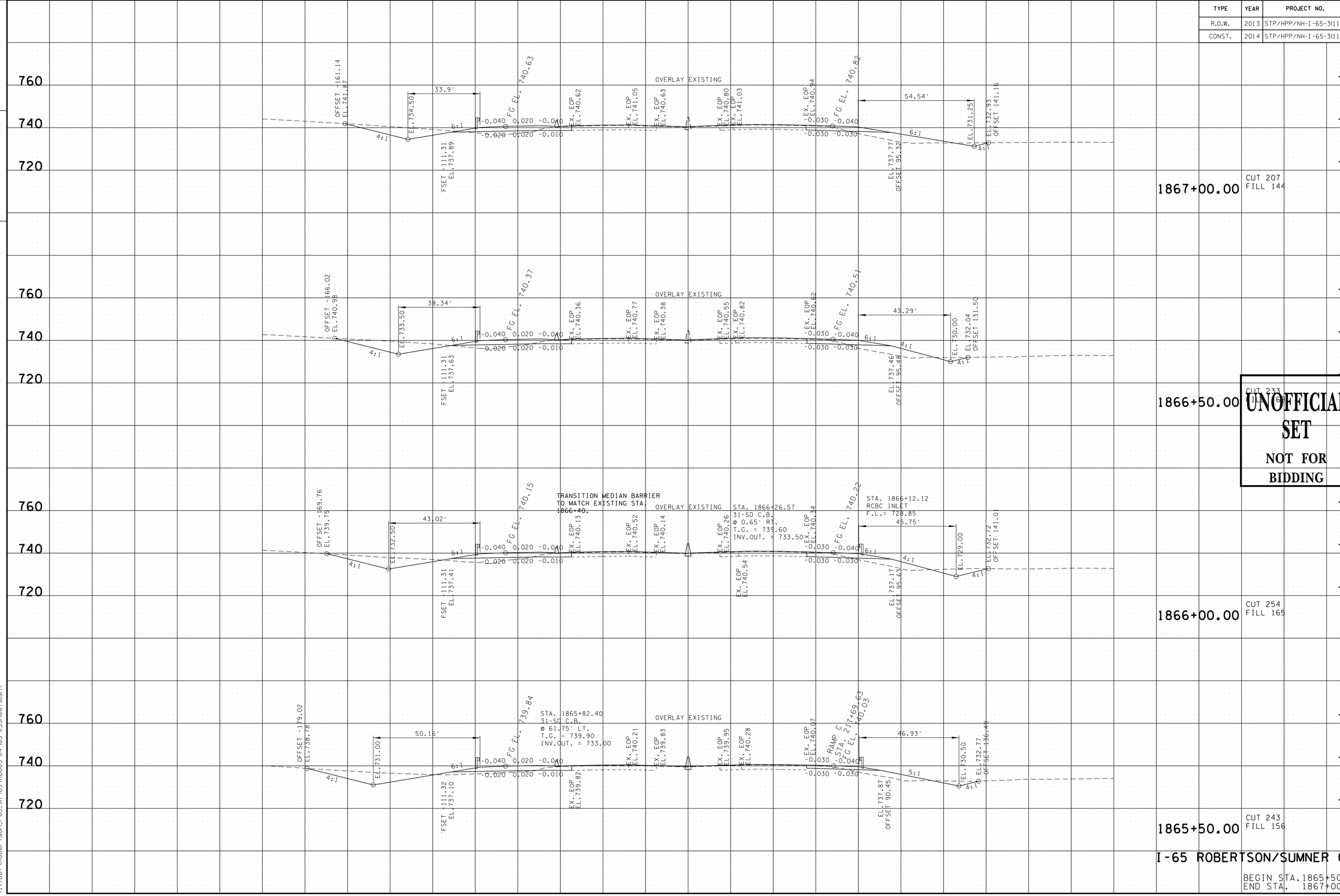
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	124
CONST.	2014	STP/HPP/NH-I-65-3(113)	178

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1865+50.00
END STA. 1867+00.00

9/29/2014 2:23:27 PM
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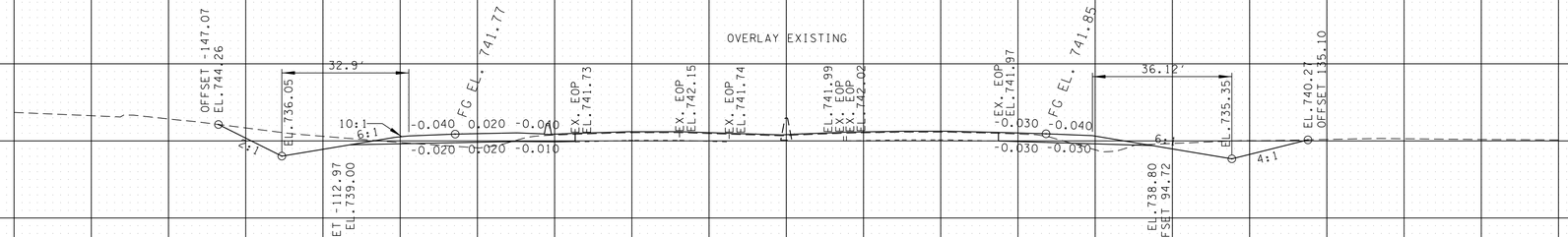
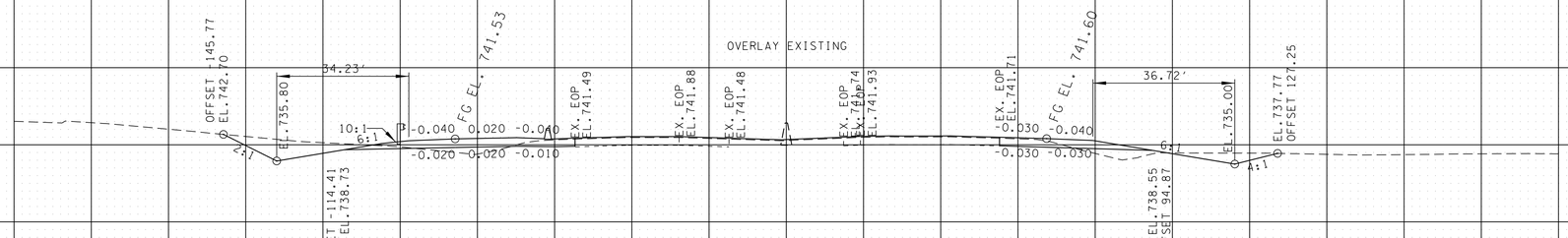
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	125
CONST.	2014	STP/HPP/NH-I-65-3(113)	179

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

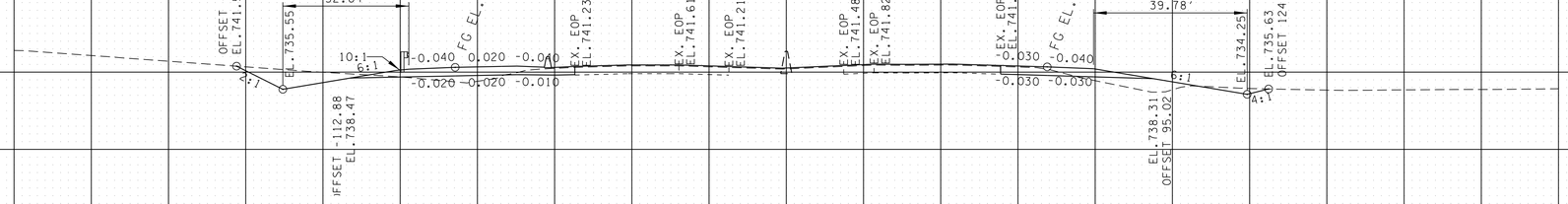


1869+00.00 CUT 253 FILL 67

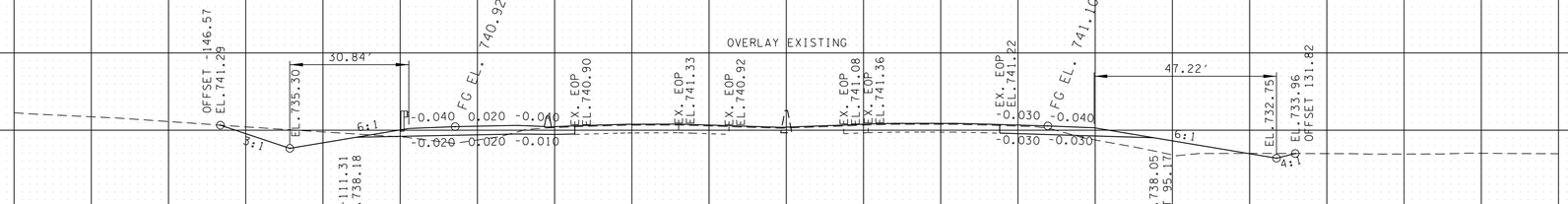


1868+50.00 CUT 198 FILL 60

UNOFFICIAL SET
NOT FOR BIDDING



1868+00.00 CUT 158 FILL 107



1867+50.00 CUT 154 FILL 128

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1867+50.00
END STA. 1869+00.00

9/29/2014 2:23:29 PM
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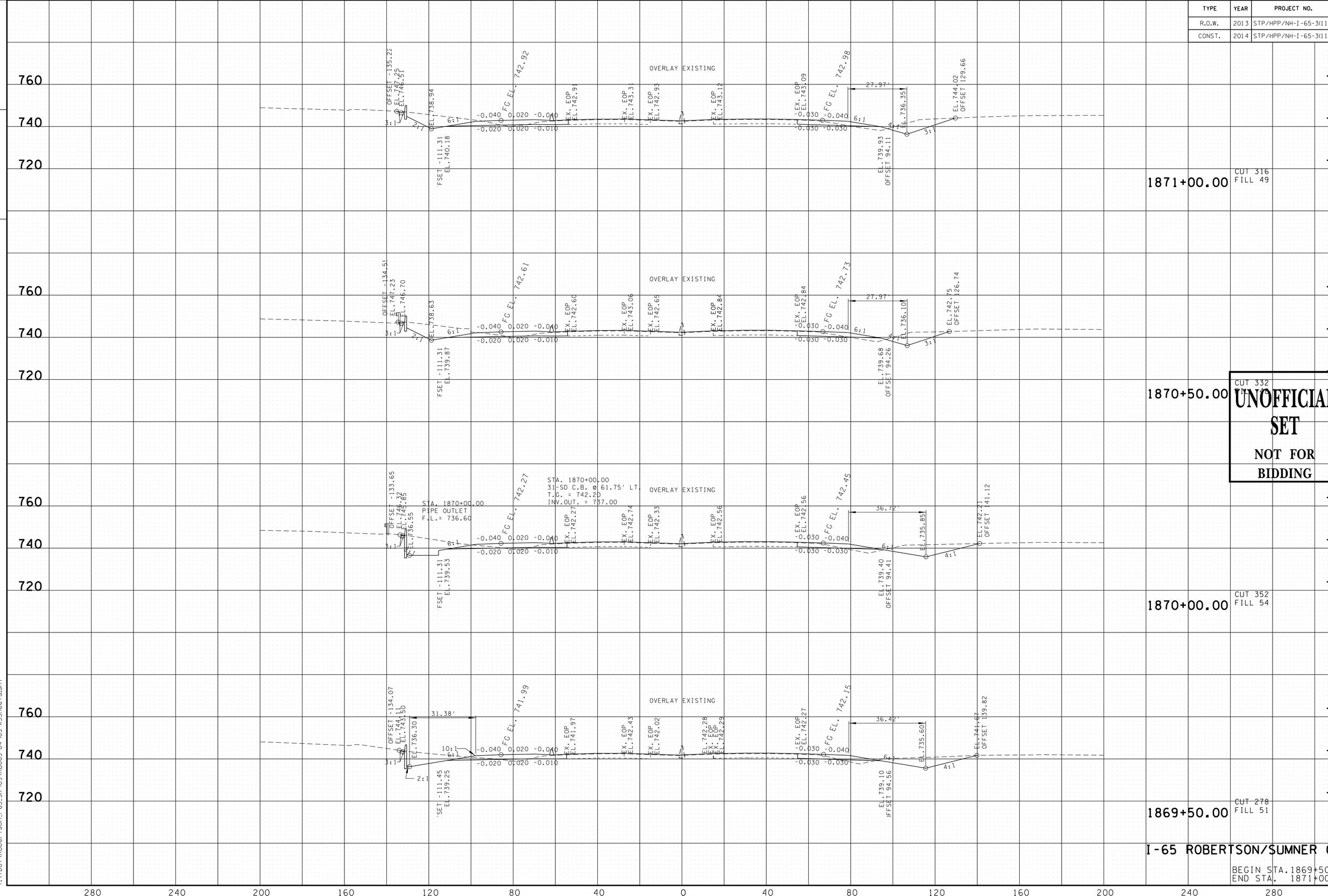
280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	126
CONST.	2014	STP/HPP/NH-I-65-3(113)	180

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1869+50.00
END STA. 1871+00.00

9/29/2014 2:23:32 PM
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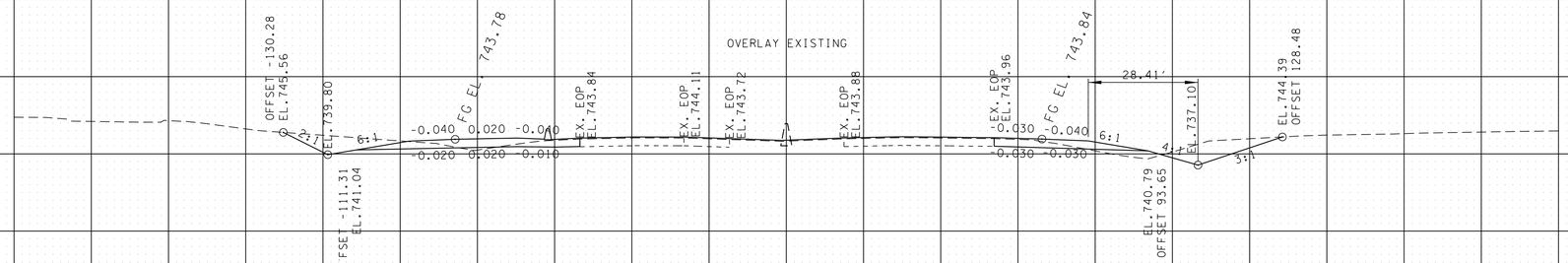
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	127
CONST.	2014	STP/HPP/NH-I-65-3(113)	181

TENNESSEE D.O.T.
DESIGN DIVISION

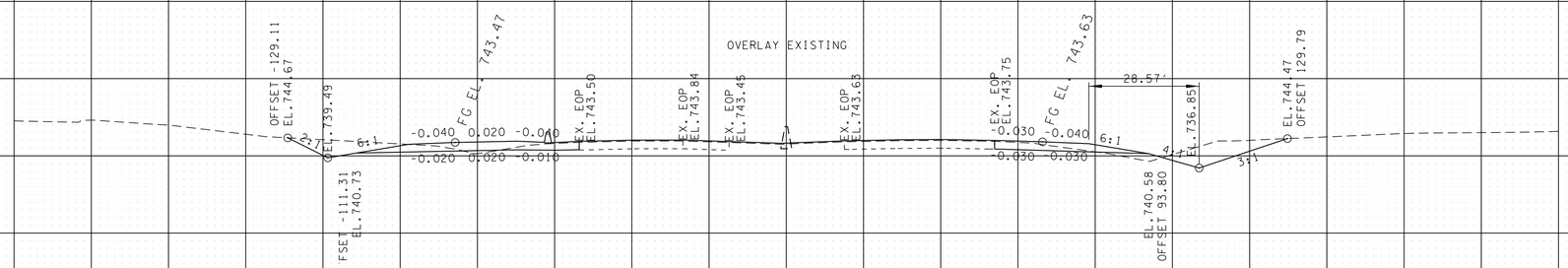
FILE NO.



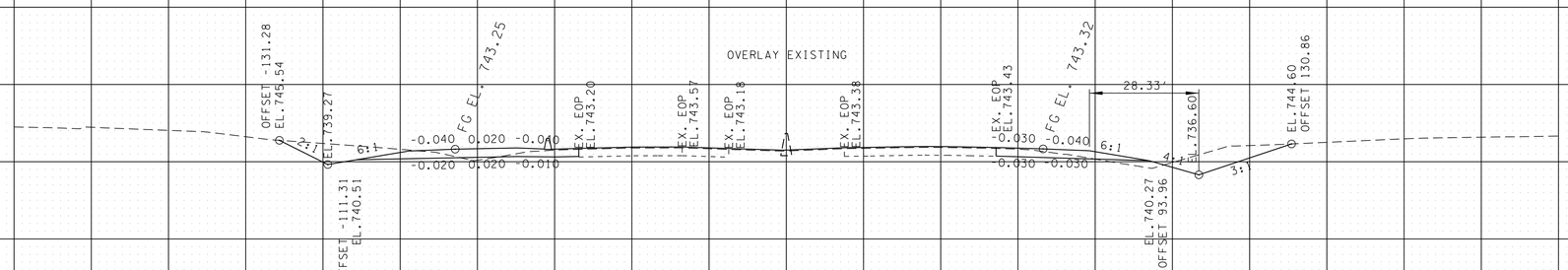
1872+50.00 CUT 257 FILL 54

UNOFFICIAL SET

NOT FOR BIDDING



1872+00.00 CUT 263 FILL 47



1871+50.00 CUT 287 FILL 49

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1871+50.00
END STA. 1872+50.00

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9/24/2014 8:34:08 AM
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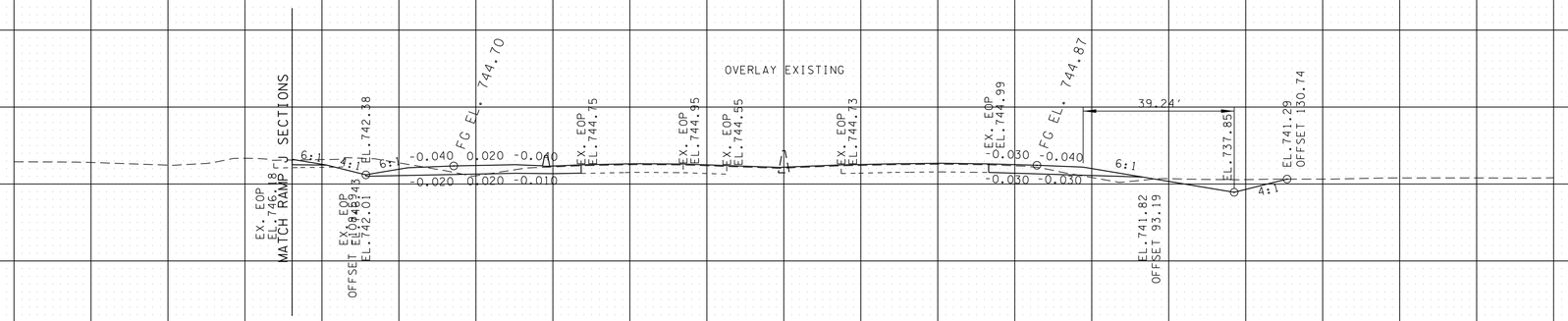
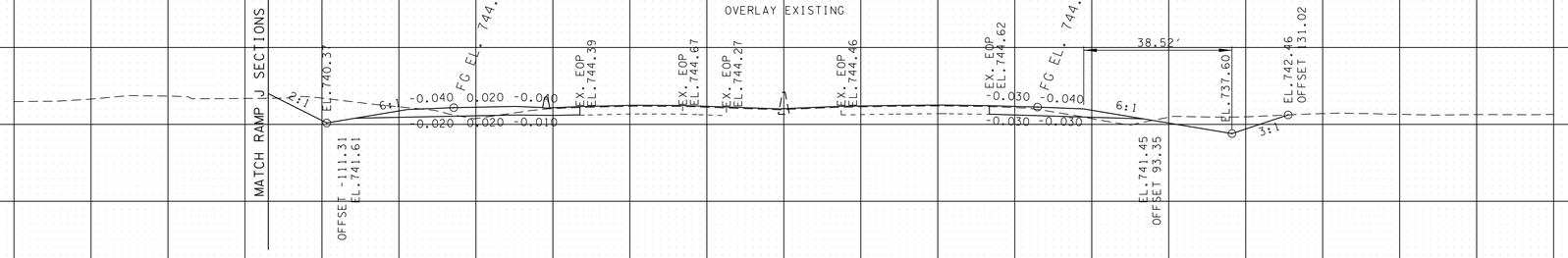
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	128
CONST.	2014	STP/HPP/NH-I-65-3(113)	182

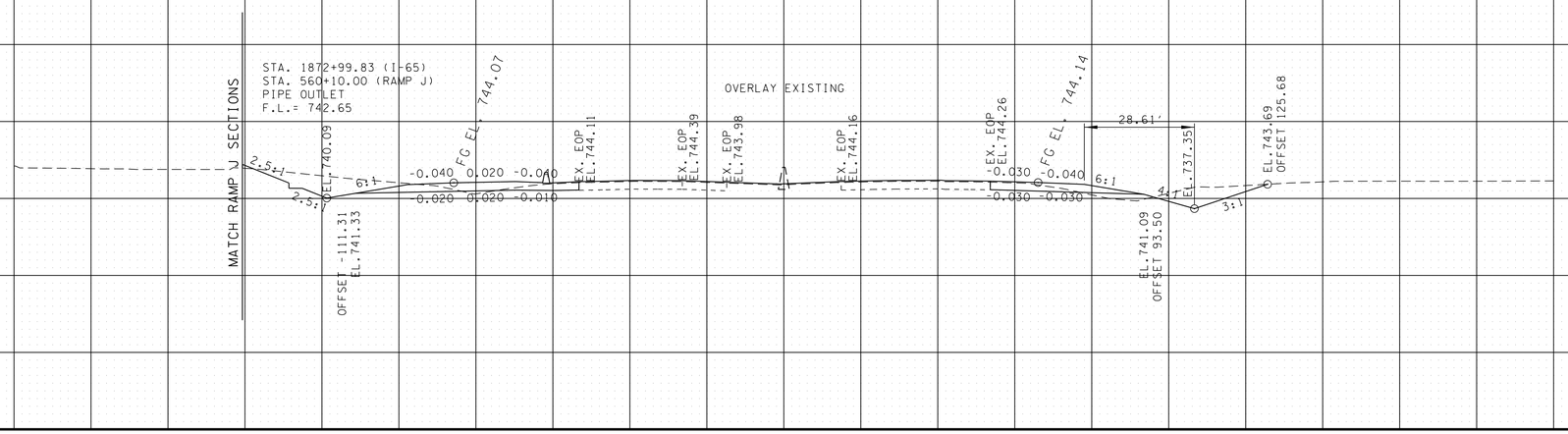
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1874+00.00 CUT 227 FILL 45



1873+50.00 CUT 290 FILL 48



1873+00.00 CUT 292 FILL 53

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1873+00.00
END STA. 1874+00.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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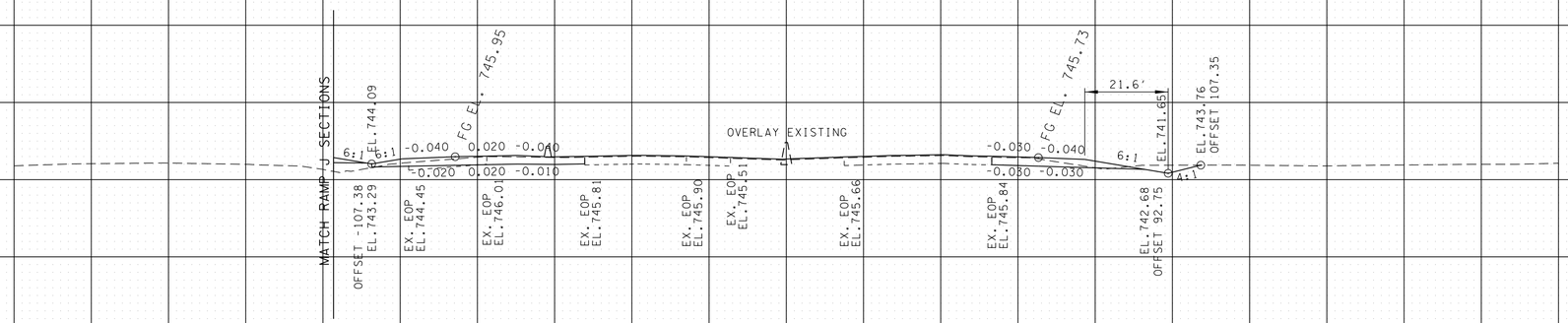
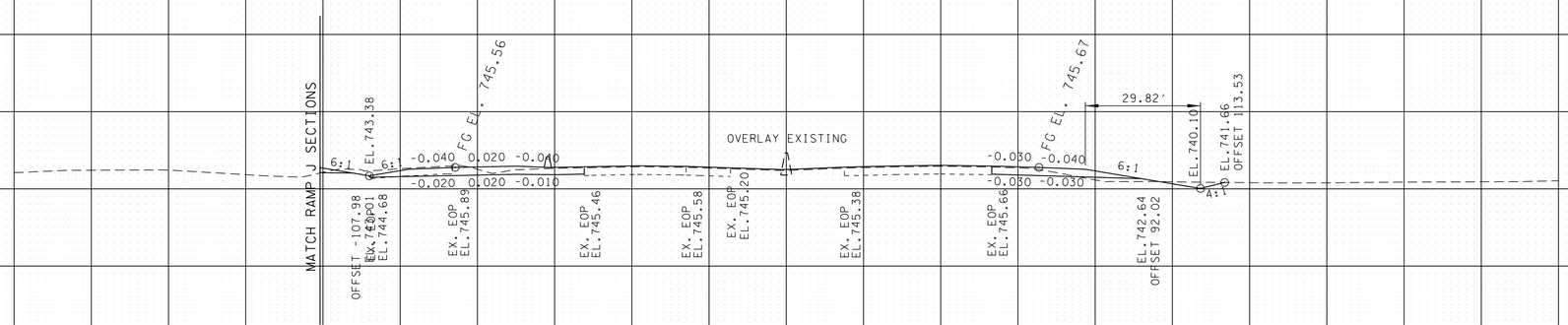
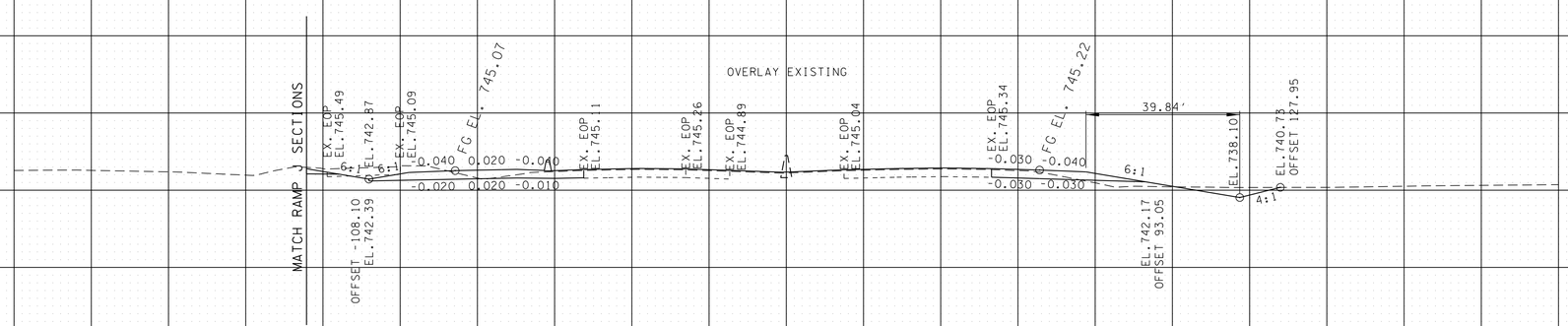
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	129
CONST.	2014	STP/HPP/NH-I-65-3(113)	183

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.







UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1874+50.00
END STA. 1875+50.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	130
CONST.	2014	STP/HPP/NH-I-65-3(113)	184

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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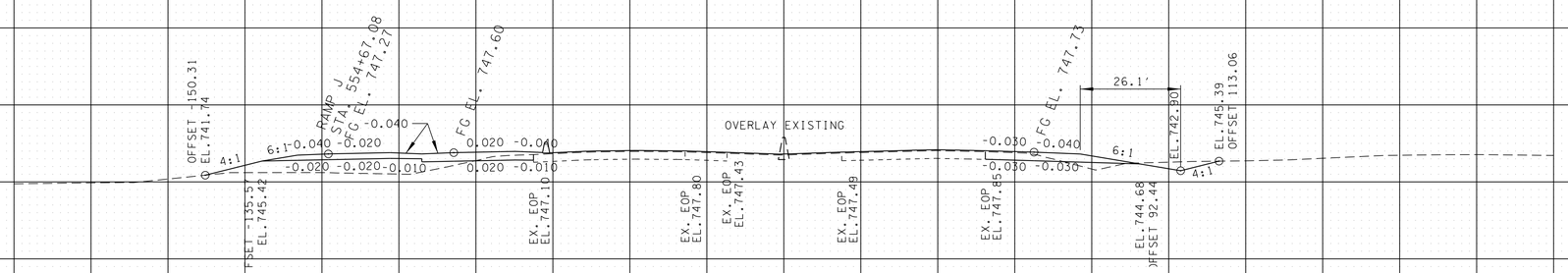
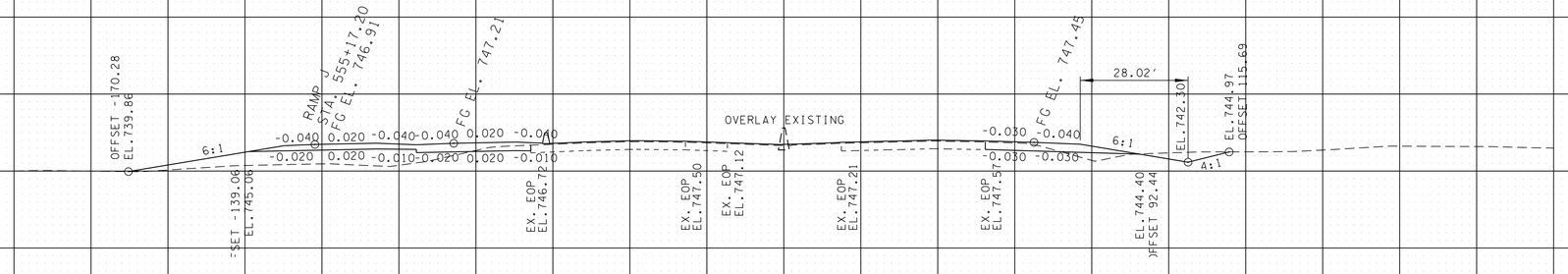
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	131
CONST.	2014	STP/HPP/NH-I-65-3(113)	185

TENNESSEE D.O.T.
DESIGN DIVISION

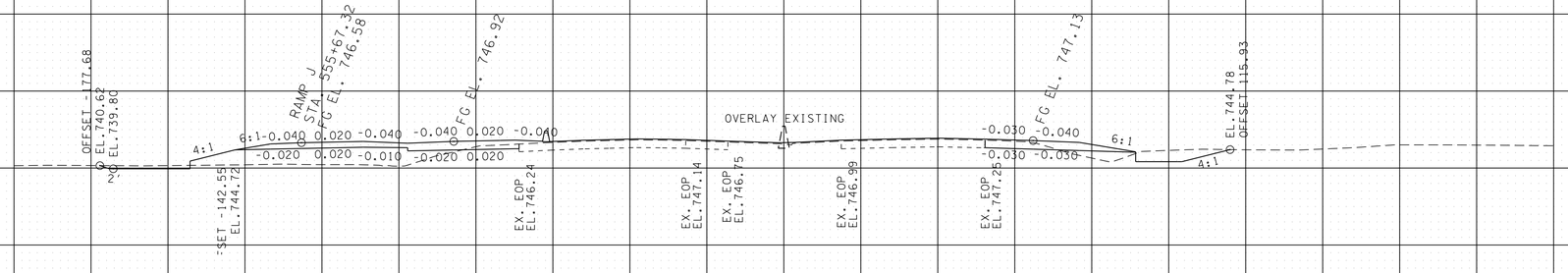
FILE NO.



1878+50.00 CUT 72 FILL 371



1878+00.00 CUT 76 FILL 442



1877+50.00 CUT 114 FILL 458

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1877+50.00
END STA. 1878+50.00

780 760 740 720

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:34:18 AM
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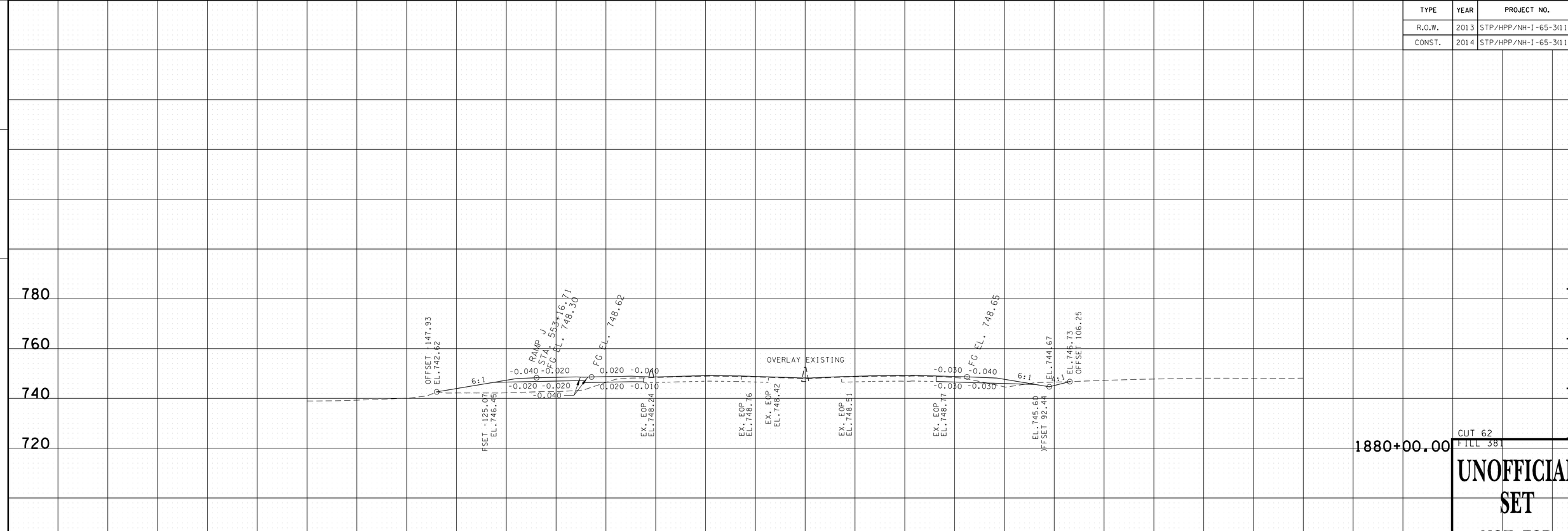
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	132
CONST.	2014	STP/HPP/NH-I-65-3(113)	186

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1879+00.00
END STA. 1880+00.00

9/24/2014 8:34:21 AM
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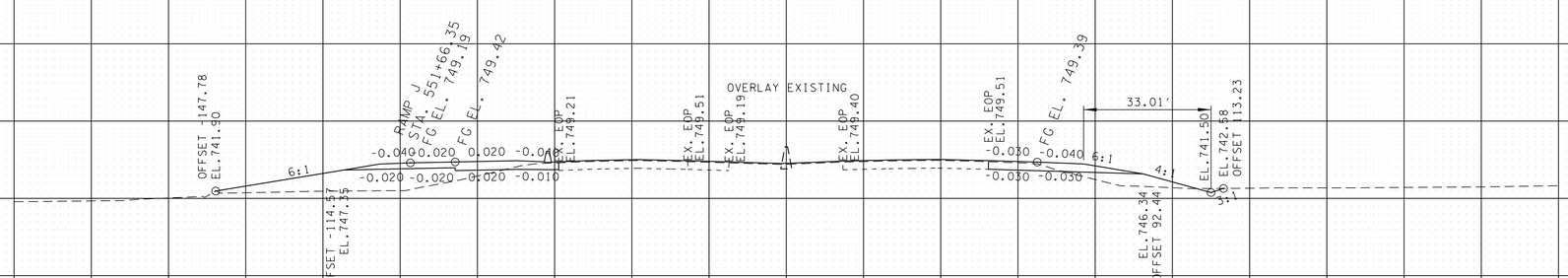
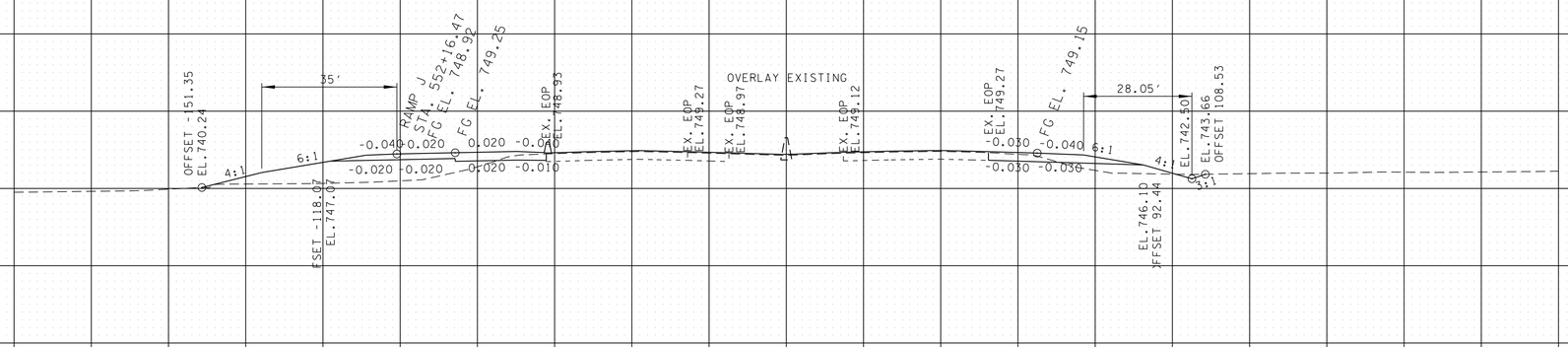
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	133
CONST.	2014	STP/HPP/NH-I-65-3(113)	187

TENNESSEE D.O.T.
DESIGN DIVISION

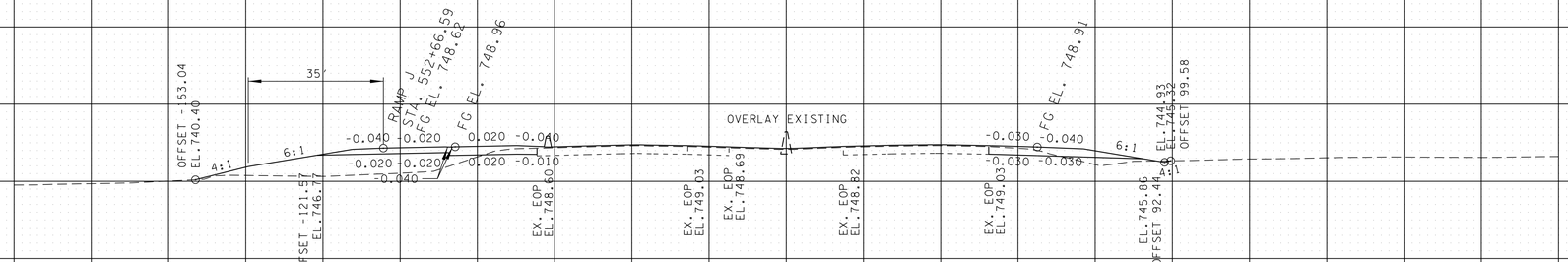
FILE NO.



1881+50.00 CUT 50 FILL 474



1881+00.00 CUT 46 FILL 453



1880+50.00 CUT 43 FILL 423

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1880+50.00
END STA. 1881+50.00

9/29/2014 2:23:50 PM
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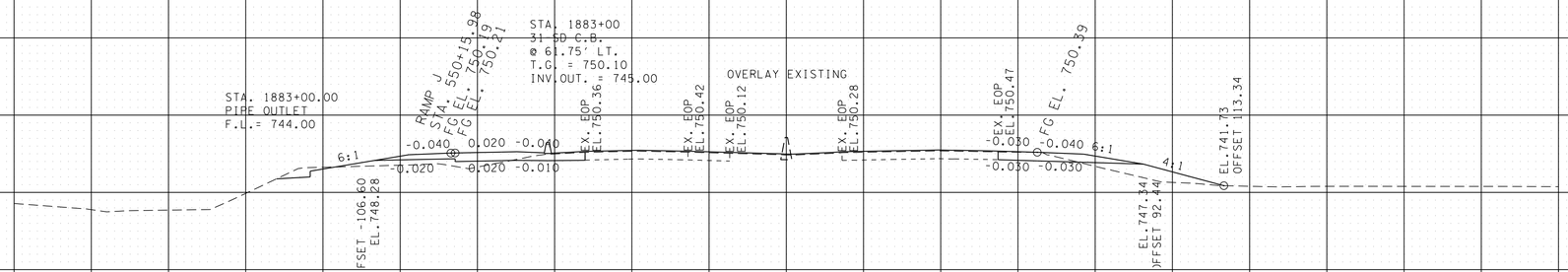
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	134
CONST.	2014	STP/HPP/NH-I-65-3(113)	188

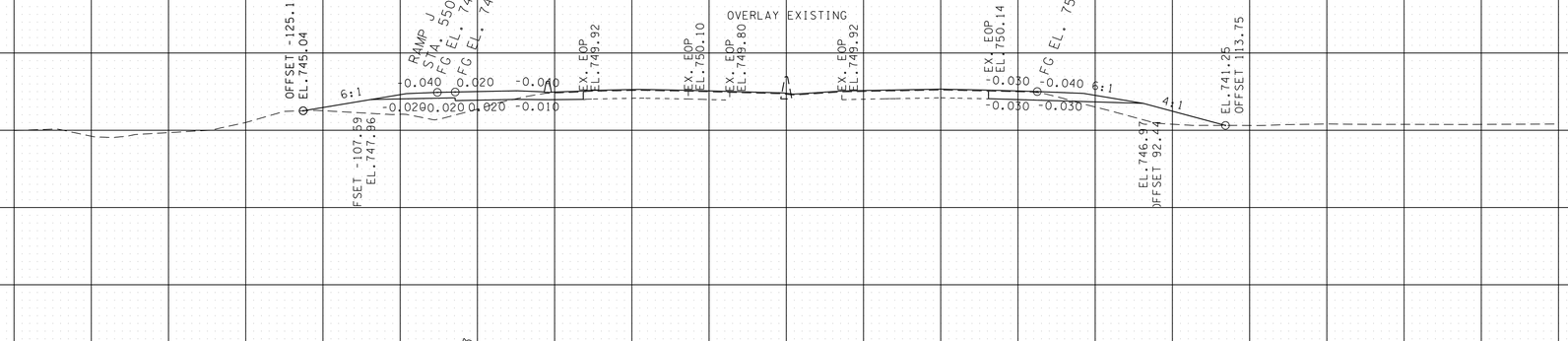
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

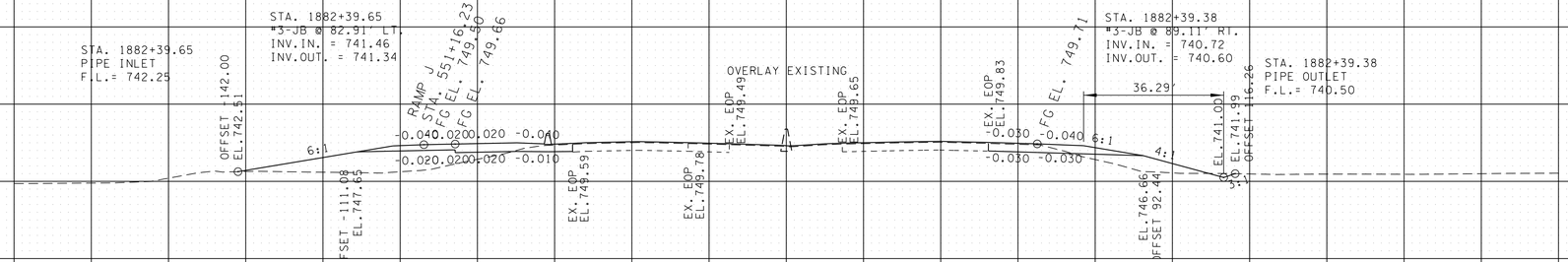


1883+00.00 CUT 80 FILL 222

UNOFFICIAL SET
NOT FOR BIDDING



1882+50.00 CUT 61 FILL 380



1882+00.00 CUT 58 FILL 446

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1882+00.00
END STA. 1883+00.00

9/24/2014 8:34:26 AM
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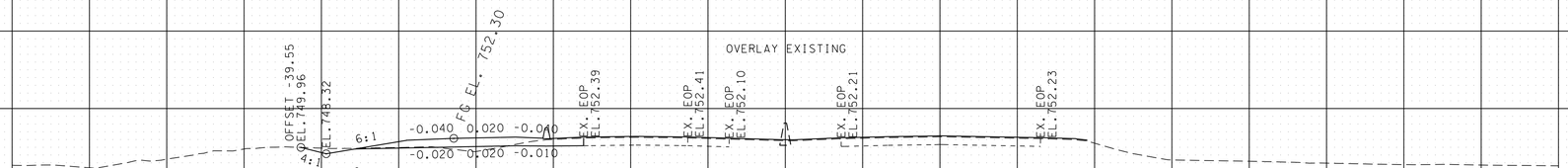
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	135
CONST.	2014	STP/HPP/NH-I-65-3(113)	189

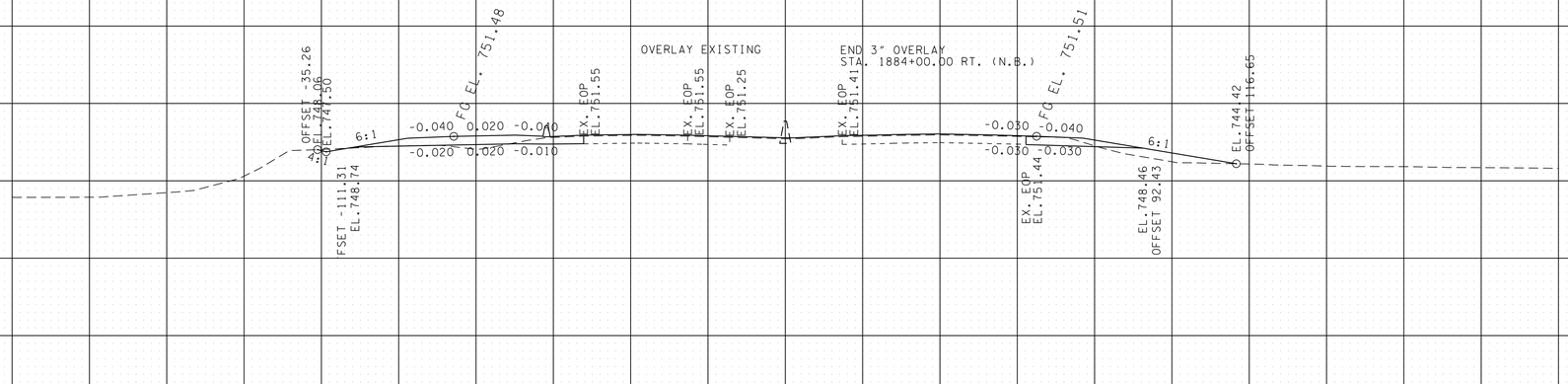
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

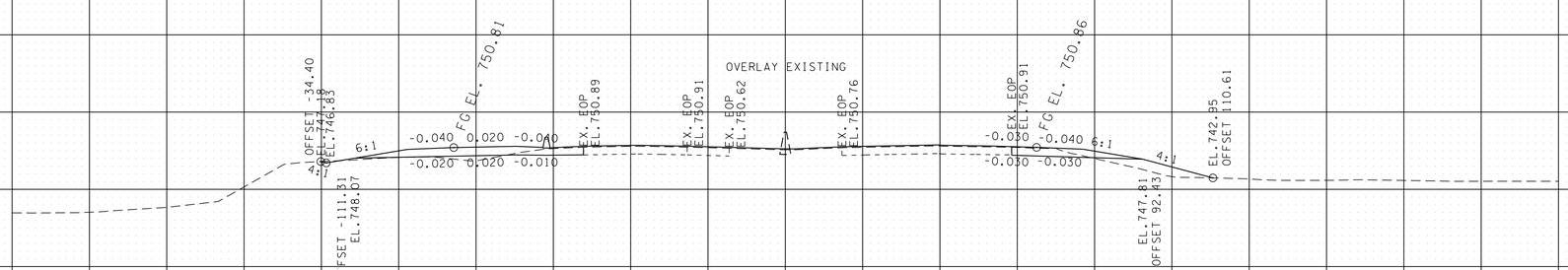


1884+50.00 CUT 40 FILL 137

UNOFFICIAL SET
NOT FOR BIDDING



1884+00.00 CUT 60 FILL 178



1883+50.00 CUT 59 FILL 183

I-65 ROBERTSON/SUMNER CO.

BEGIN STA.1883+50.00
END STA. 1884+50.00

9/29/2014 2:23:55 PM
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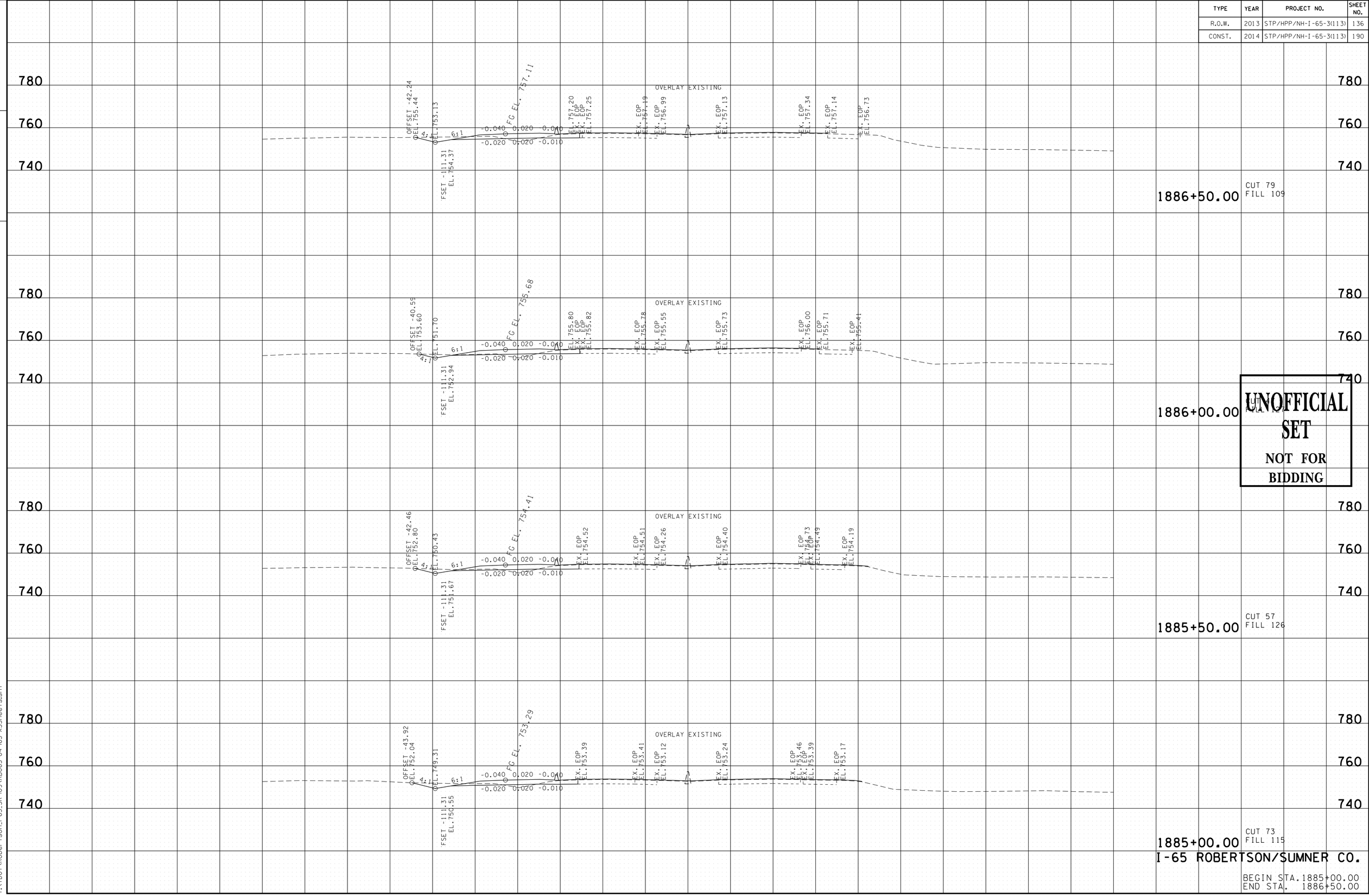
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	136
CONST.	2014	STP/HPP/NH-I-65-3(113)	190

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1885+00.00
END STA. 1886+50.00

9/24/2014 8:34:32 AM
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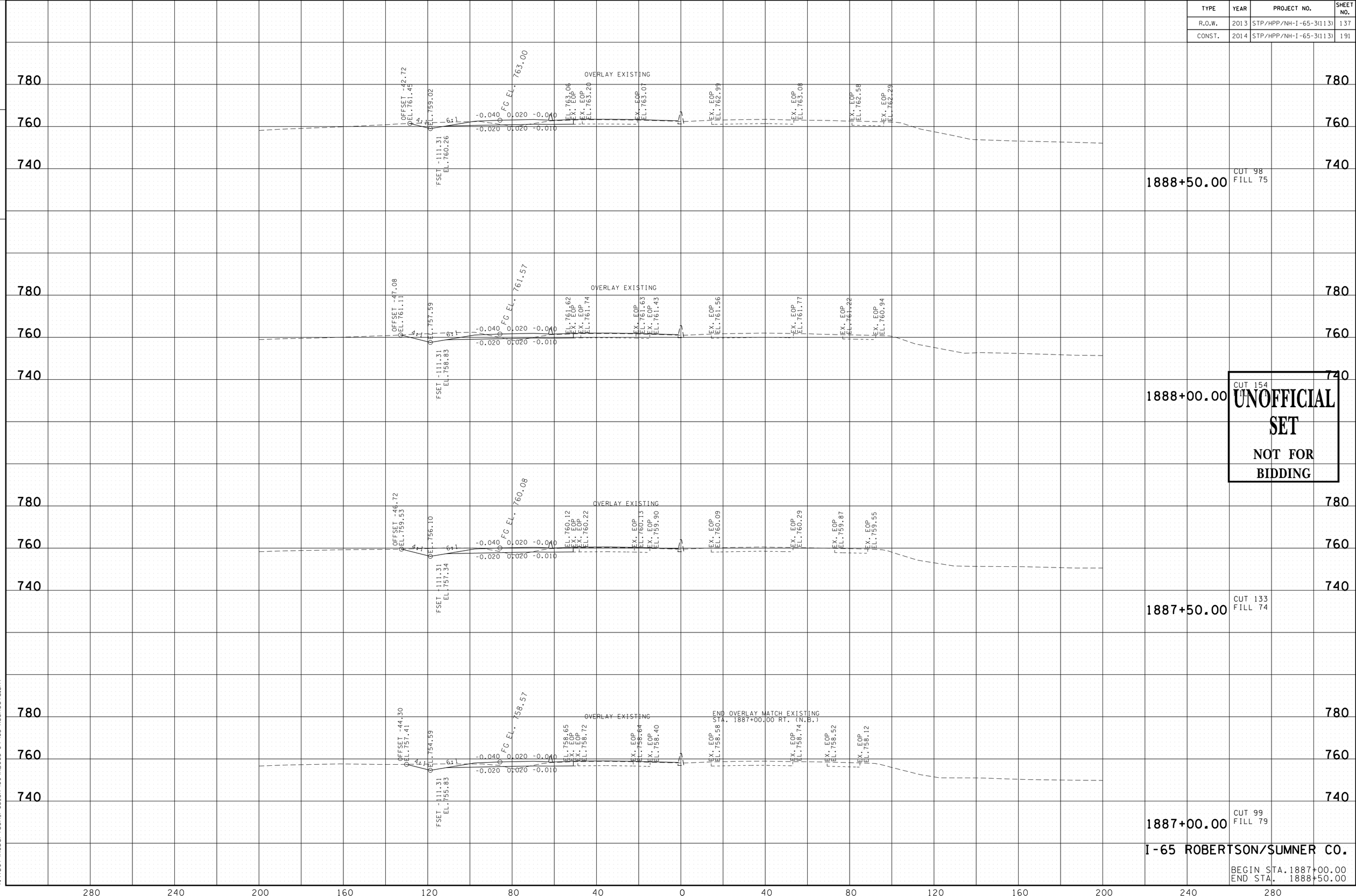
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	137
CONST.	2014	STP/HPP/NH-I-65-3(113)	191

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA.1887+00.00
END STA. 1888+50.00

9/24/2014 8:34:34 AM
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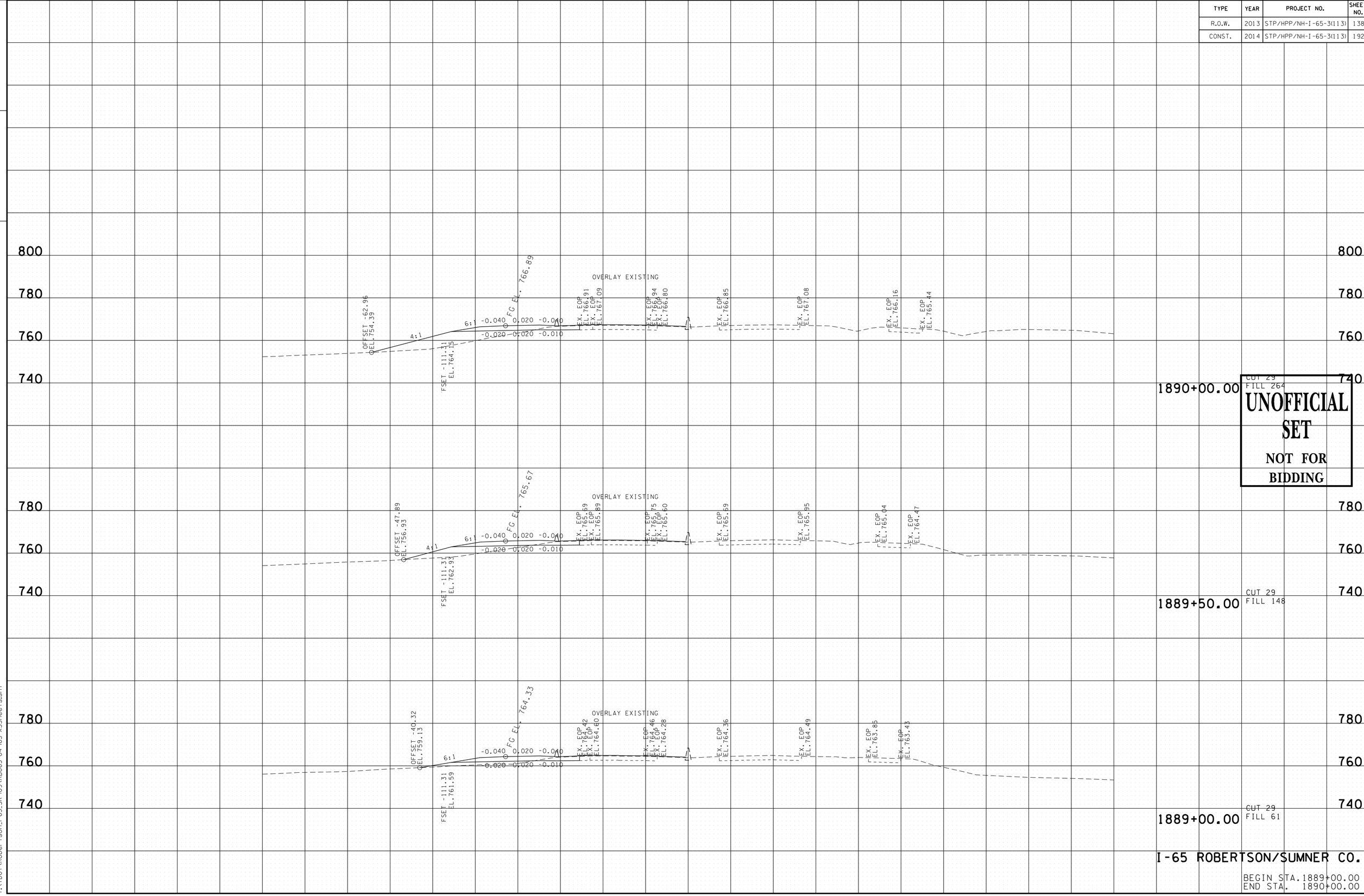
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	138
CONST.	2014	STP/HPP/NH-I-65-3(113)	192

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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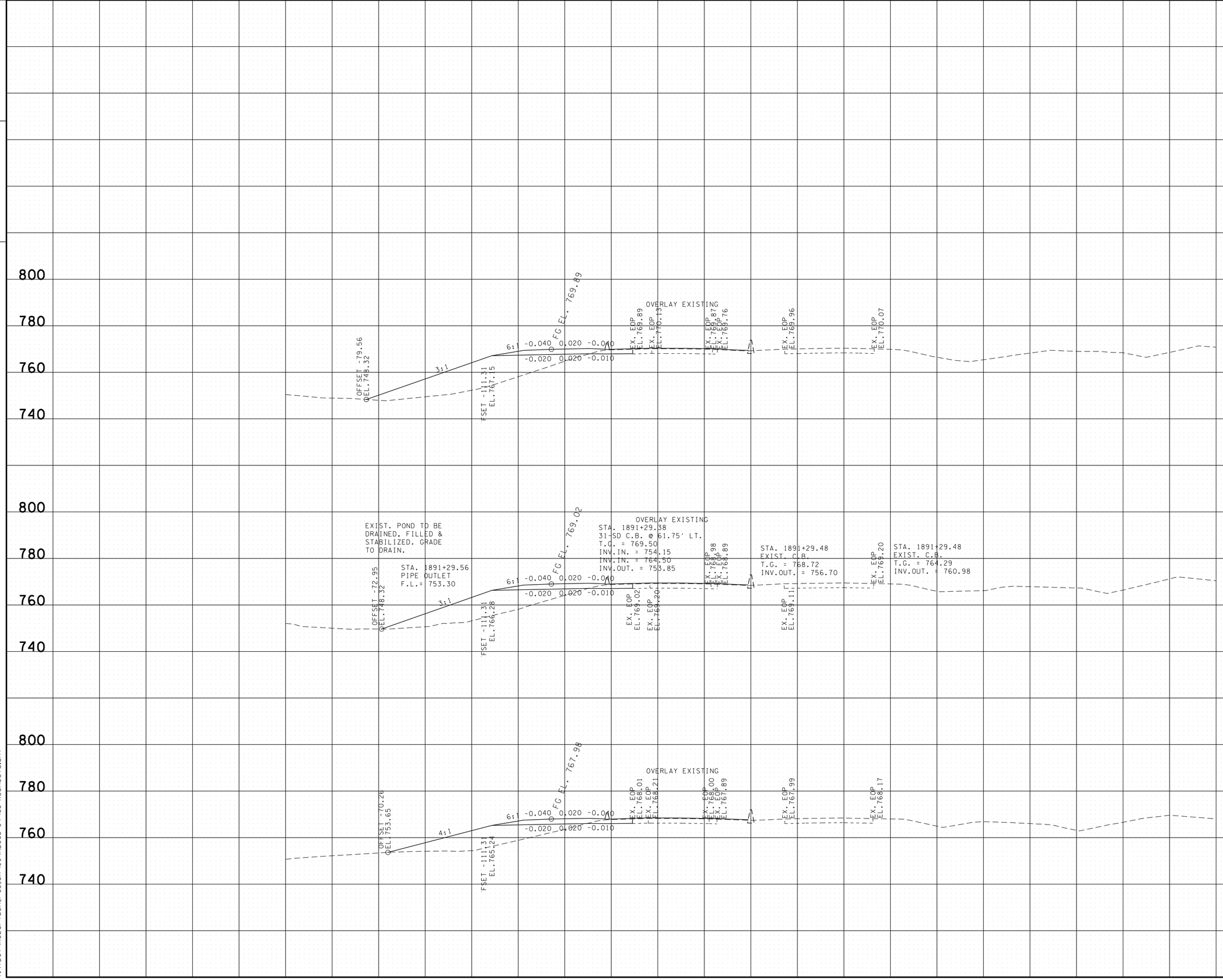
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	139
CONST.	2014	STP/HPP/NH-I-65-3(113)	193

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA.1890+50.00
END STA. 1891+50.00

9/24/2014 8:34:40 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	140
CONST.	2014	STP/HPP/NH-I-65-3(113)	194

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1892+00.00
END STA. 1893+00.00

9/24/2014 8:34:43 AM
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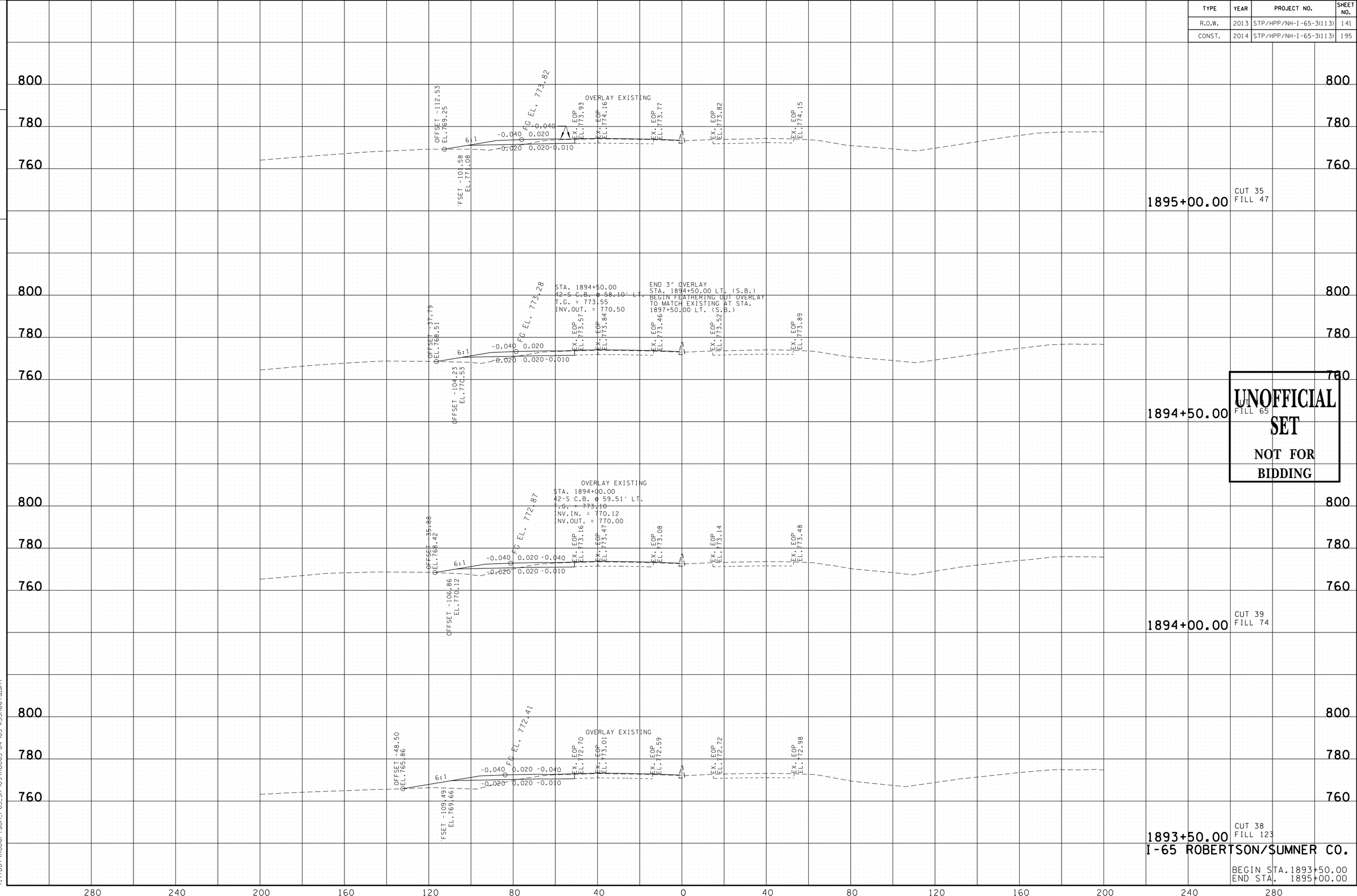
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	141
CONST.	2014	STP/HPP/NH-I-65-3(113)	195

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1893+50.00
END STA. 1895+00.00

9/24/2014 8:34:45 AM
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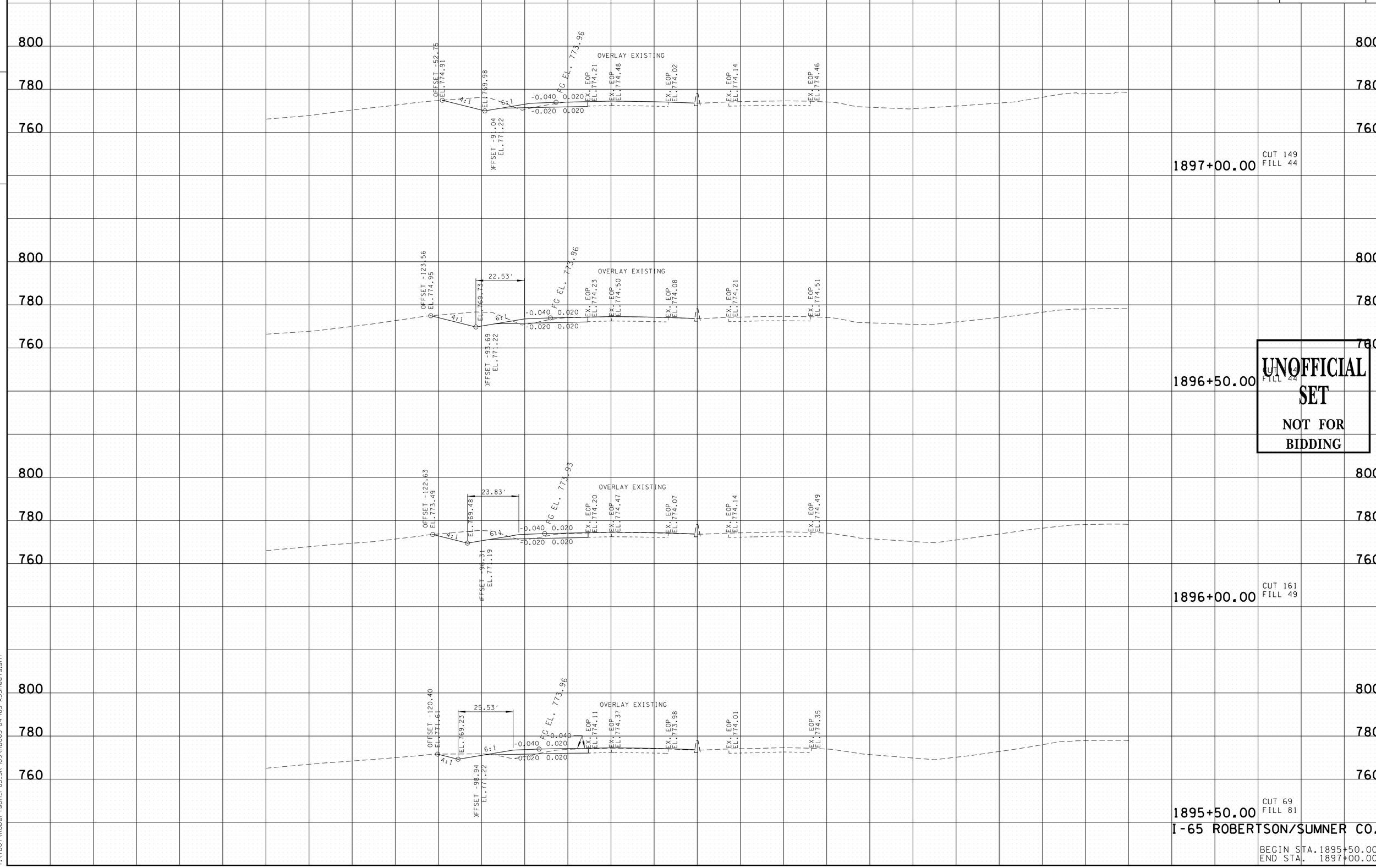
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	142
CONST.	2014	STP/HPP/NH-I-65-3(113)	196

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1895+50.00
END STA. 1897+00.00

9/24/2014 8:34:48 AM
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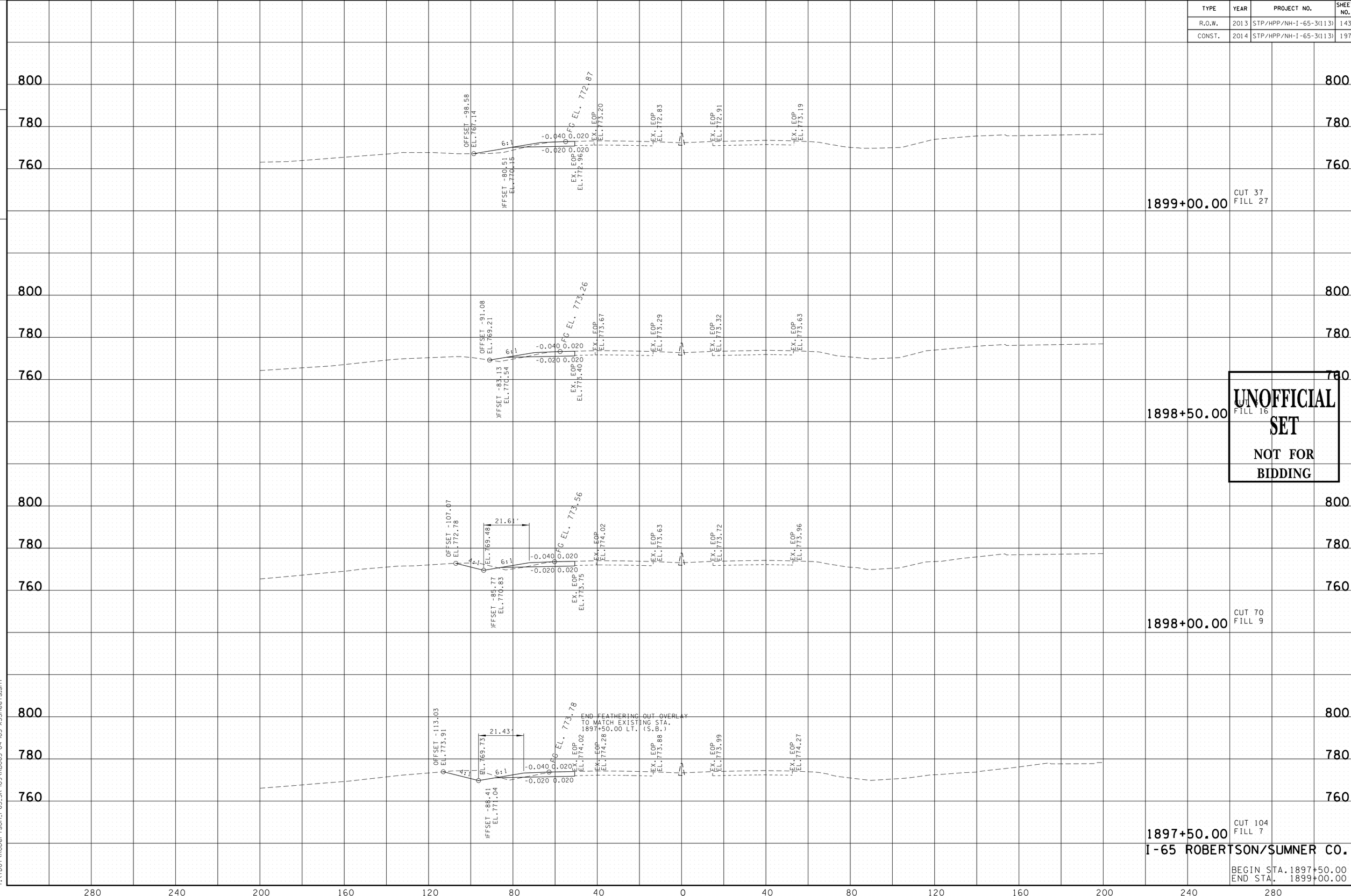
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	143
CONST.	2014	STP/HPP/NH-I-65-3(113)	197

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1897+50.00
END STA. 1899+00.00

9/24/2014 8:34:51 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	144
CONST.	2014	STP/HPP/NH-I-65-3(113)	198

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

780
760

EX. EOP EL.770.03
EX. EOP EL.770.20
EX. EOP EL.769.86
EX. EOP EL.769.90
EX. EOP EL.770.16

1902+00.00

780
760

EX. EOP EL.770.53
EX. EOP EL.770.73
EX. EOP EL.770.38
EX. EOP EL.770.42
EX. EOP EL.770.68

1901+50.00

780
760

EX. EOP EL.771.06
EX. EOP EL.771.25
EX. EOP EL.770.92
EX. EOP EL.770.97
EX. EOP EL.771.22

1901+00.00

780
760

EX. EOP EL.771.55
EX. EOP EL.771.75
EX. EOP EL.771.40
EX. EOP EL.771.48
EX. EOP EL.771.74

1900+50.00

780
760

MATCH EXISTING

EX. EOP EL.772.03
EX. EOP EL.772.23
EX. EOP EL.771.81
EX. EOP EL.771.97
EX. EOP EL.772.23

1900+00.00

800
780
760

OFFSET -100.79
EL.765.93
6:1
-0.040 0.02
-0.019 0.020
EX. EOP EL. 772.46
EX. EOP EL.772.50
EX. EOP EL.772.13
EX. EOP EL.772.33
EX. EOP EL.772.48
EX. EOP EL.772.68
OFFSET -77.89
EL.769.75

1899+50.00

CUT 37
FILL 16

I-65 ROBERTSON/SUMNER CO.

BEGIN STA.1899+50.00
END STA. 1902+00.00

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

UNOFFICIAL SET
NOT FOR BIDDING

9/24/2014 8:34:53 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	145
CONST.	2014	STP/HPP/NH-I-65-3(113)	199

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

780
760

EX. EOP EL.767.52
EX. EOP EL.767.55
EX. EOP EL.767.28
EX. EOP EL.767.16
EX. EOP EL.767.35

1905+00.00

EX. EOP EL.767.74
EX. EOP EL.767.80
EX. EOP EL.767.53
EX. EOP EL.767.36
EX. EOP EL.767.60

1904+50.00

EL.768.14
EX. EOP
EX. EOP
EL.768.22
EX. EOP EL.767.91
EX. EOP EL.767.73
EX. EOP EL.767.93

1904+00.00

EX. EOP EL.768.58
EX. EOP EL.768.69
EX. EOP EL.768.36
EX. EOP EL.768.32
EX. EOP EL.768.49

1903+50.00

EX. EOP EL.769.06
EX. EOP EL.769.19
EX. EOP EL.768.88
EX. EOP EL.768.95
EX. EOP EL.769.09

1903+00.00

EX. EOP EL.769.54
EX. EOP EL.769.69
EX. EOP EL.769.36
EX. EOP EL.769.41
EX. EOP EL.769.63

1902+50.00

UNOFFICIAL SET
NOT FOR BIDDING

I-65 ROBERTSON/SUMNER CO.

BEGIN STA. 1902+50.00
END STA. 1905+00.00

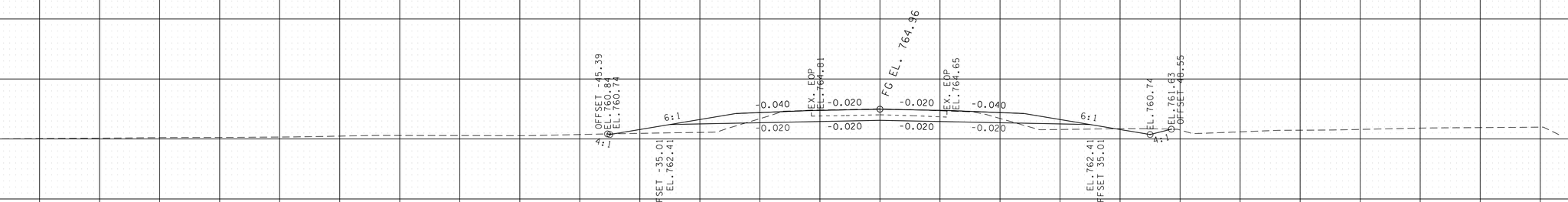
280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

9/24/2014 8:34:56 AM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-I65-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	146
CONST.	2014	STP/HPP/NH-I-65-3(113)	200

TENNESSEE D.O.T.
DESIGN DIVISION

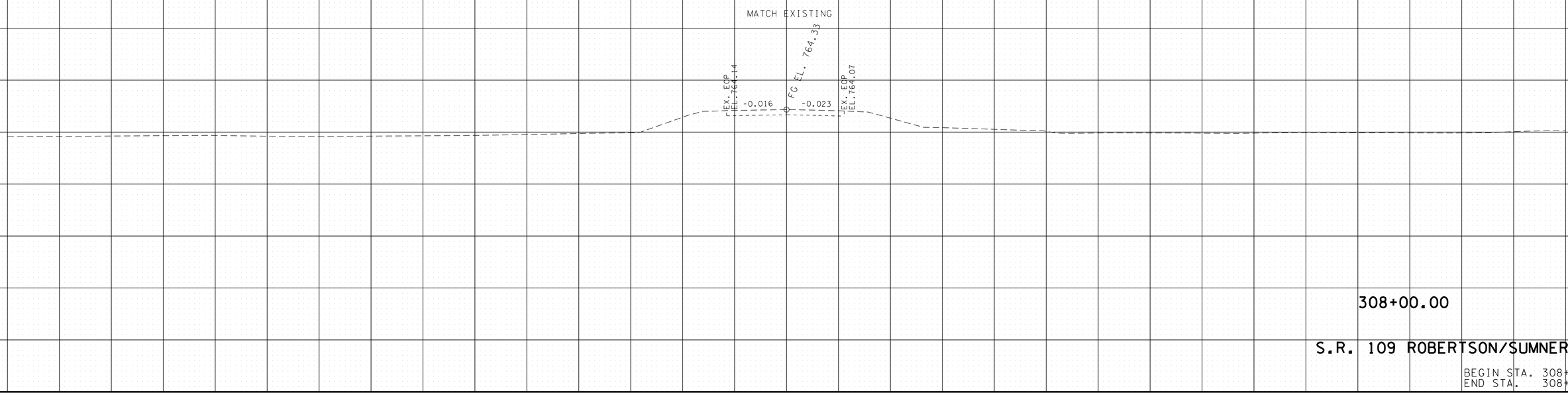
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

308+50.00

CUT 76
FILL 32



308+00.00

S.R. 109 ROBERTSON/SUMNER CO.

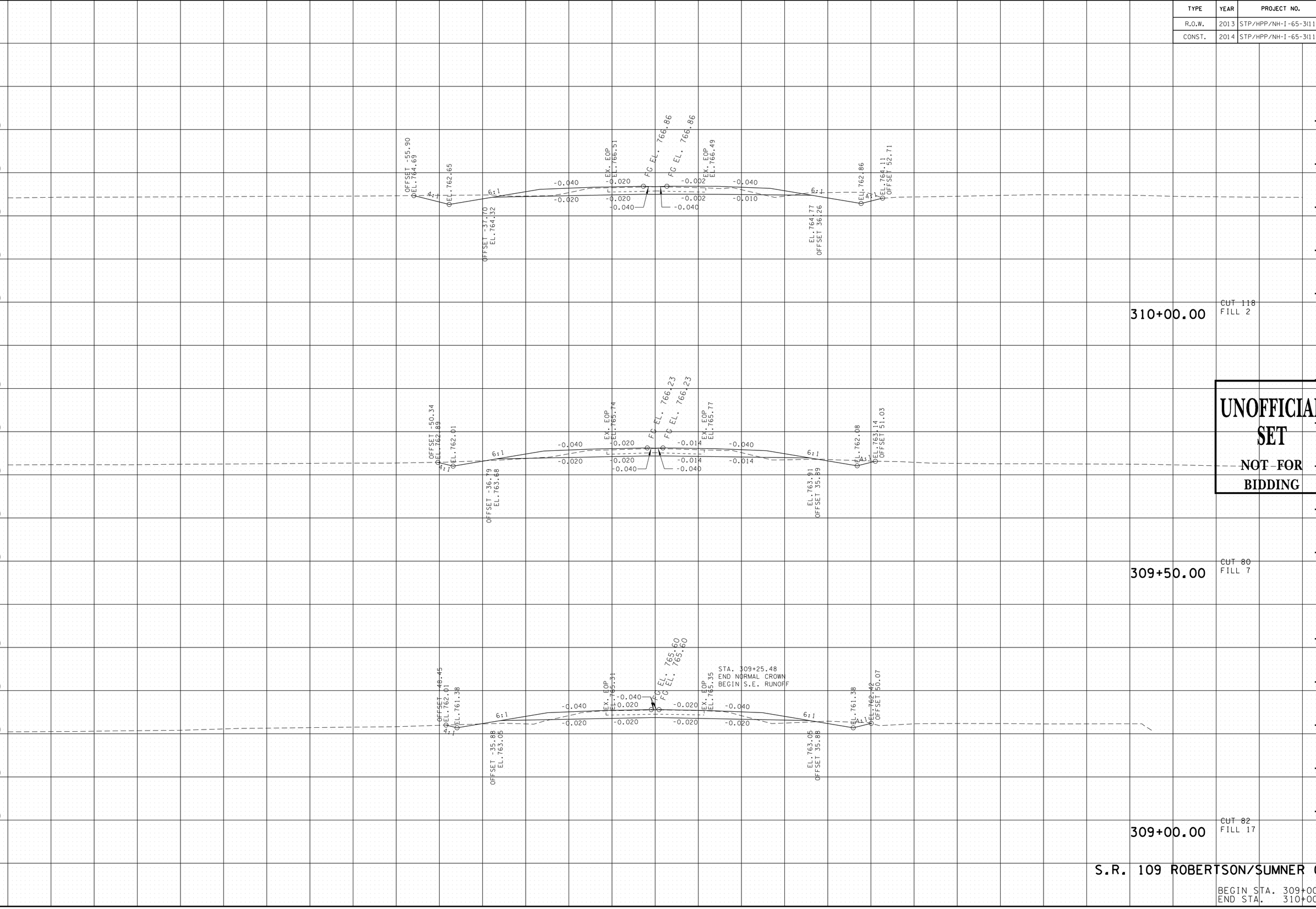
BEGIN STA. 308+00.00
END STA. 308+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 8:27:29 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	147
CONST.	2014	STP/HPP/NH-I-65-3(113)	201

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 309+00.00
END STA. 310+00.00

9/23/2014 8:27:33 PM
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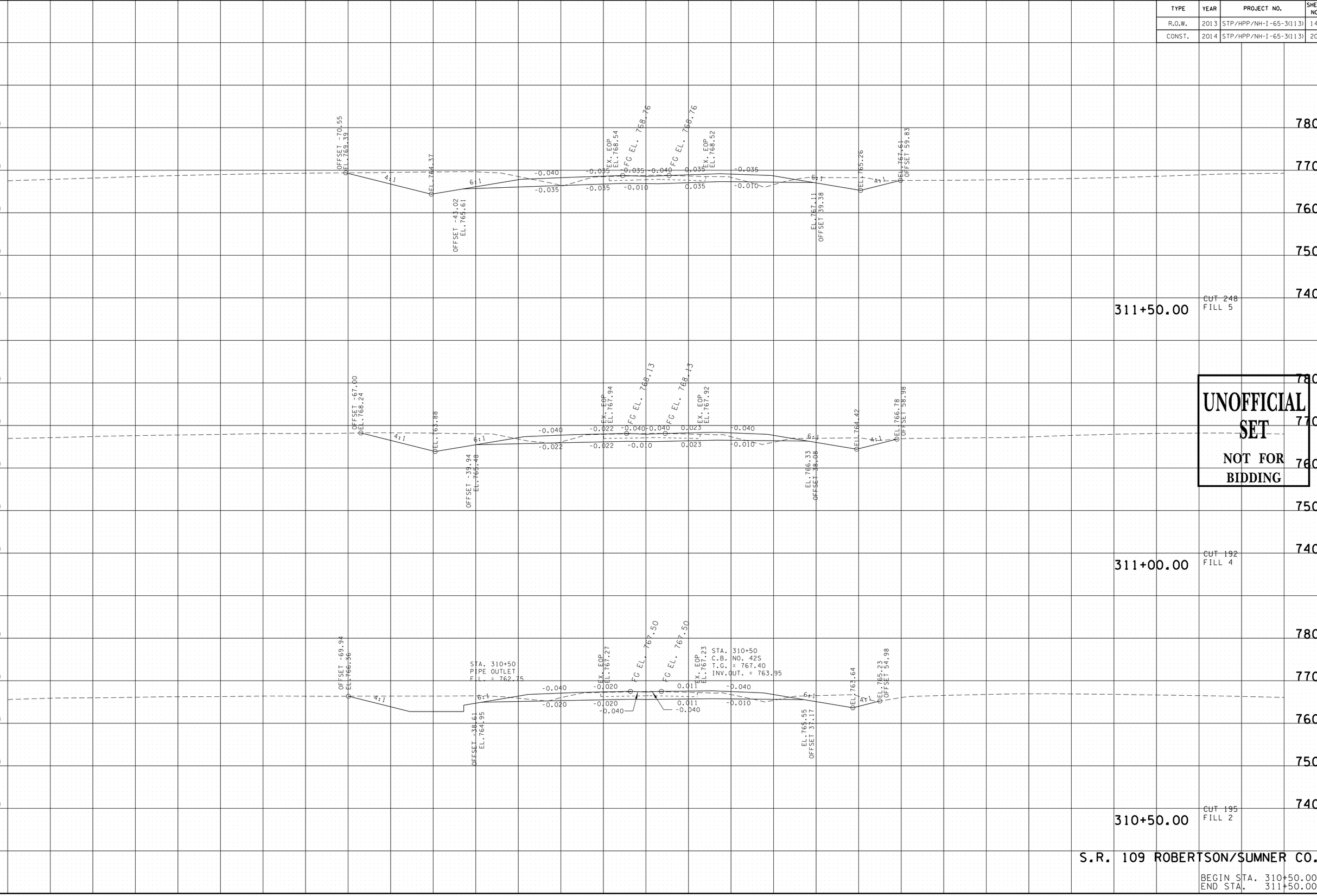
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	148
CONST.	2014	STP/HPP/NH-I-65-3(113)	202

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 310+50.00
END STA. 311+50.00

9/23/2014 8:27:36 PM
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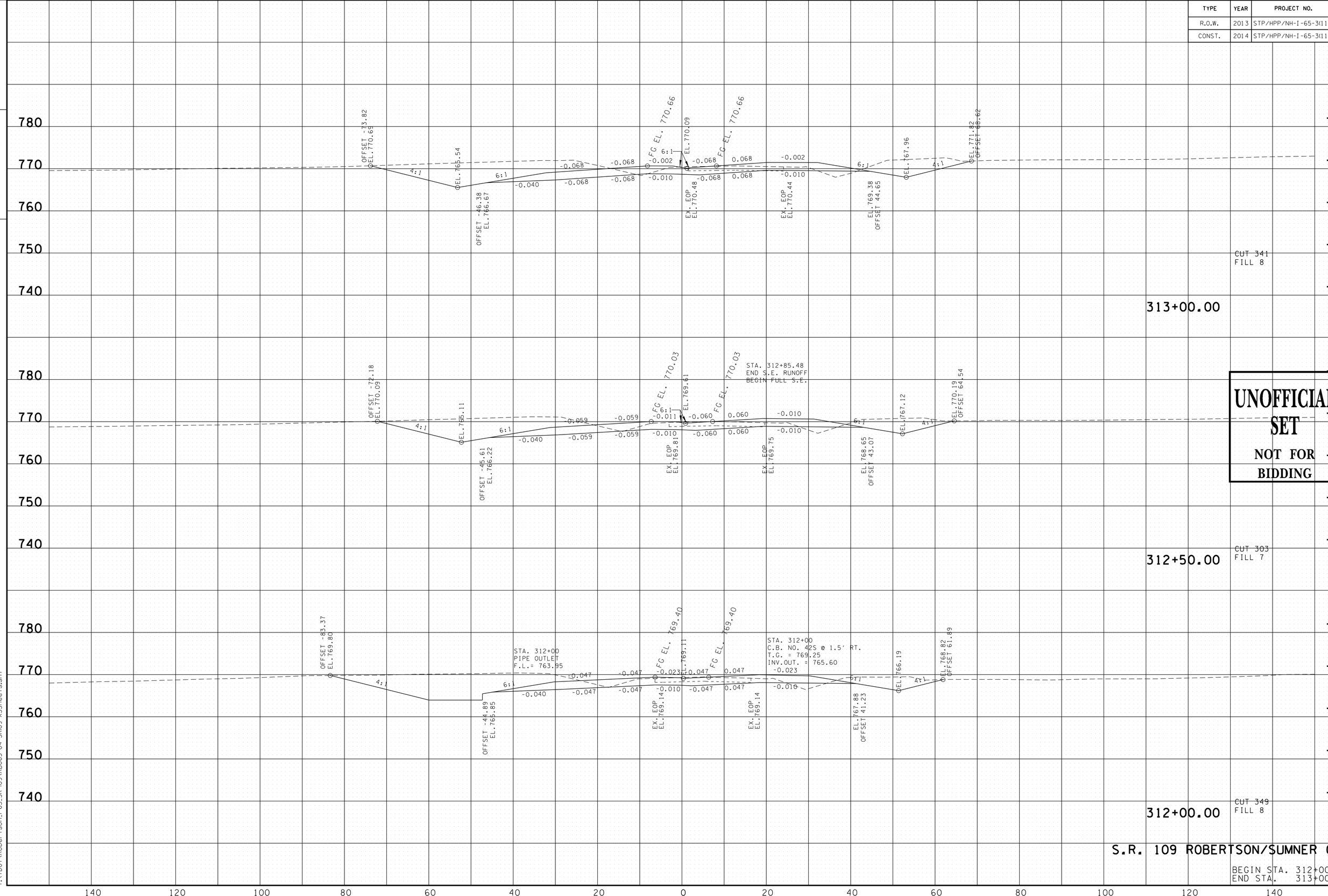
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	149
CONST.	2014	STP/HPP/NH-I-65-3(113)	203

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 312+00.00
END STA. 313+00.00

9/23/2014 8:27:39 PM
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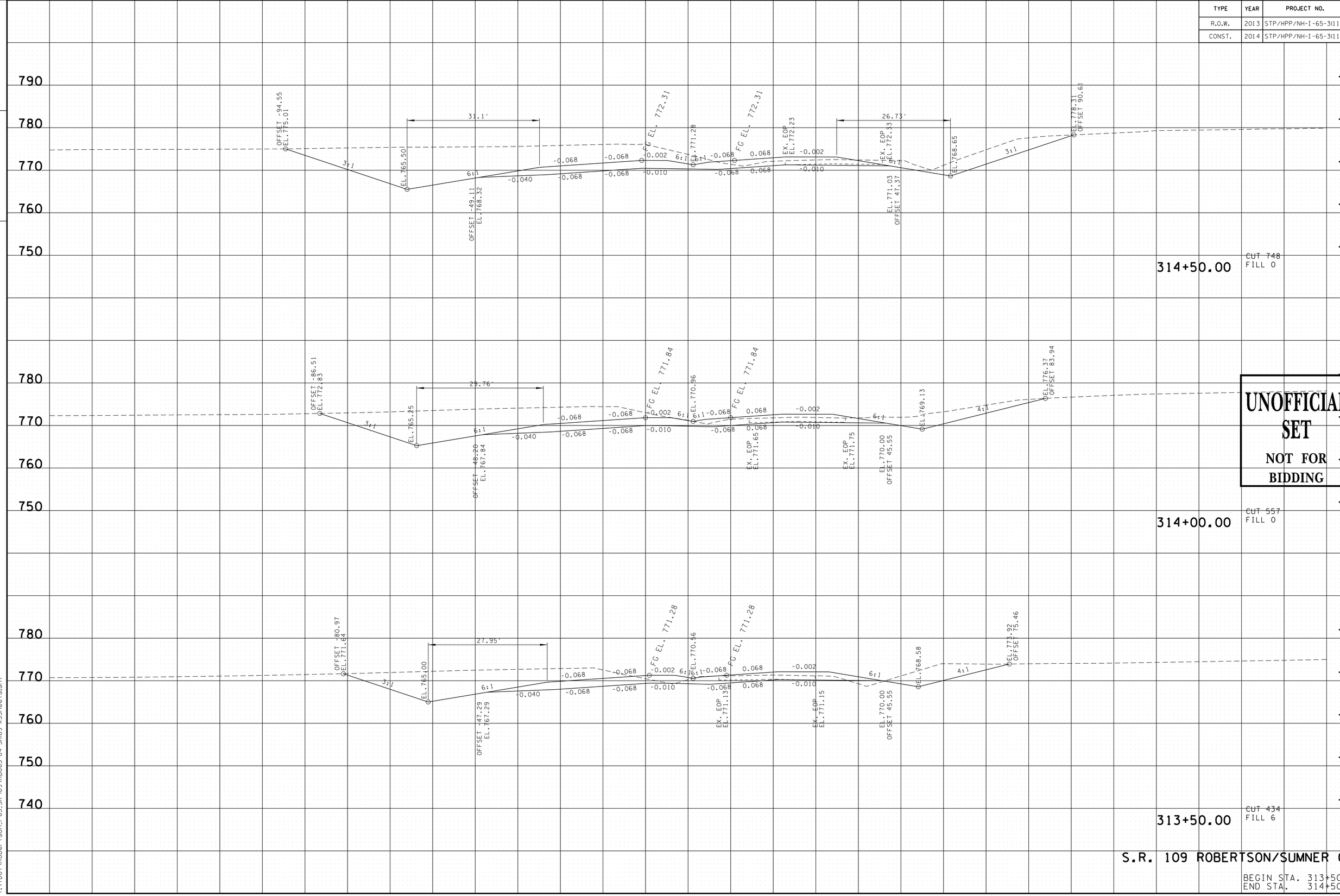
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	150
CONST.	2014	STP/HPP/NH-I-65-3(113)	204

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



UNOFFICIAL SET
NOT FOR BIDDING

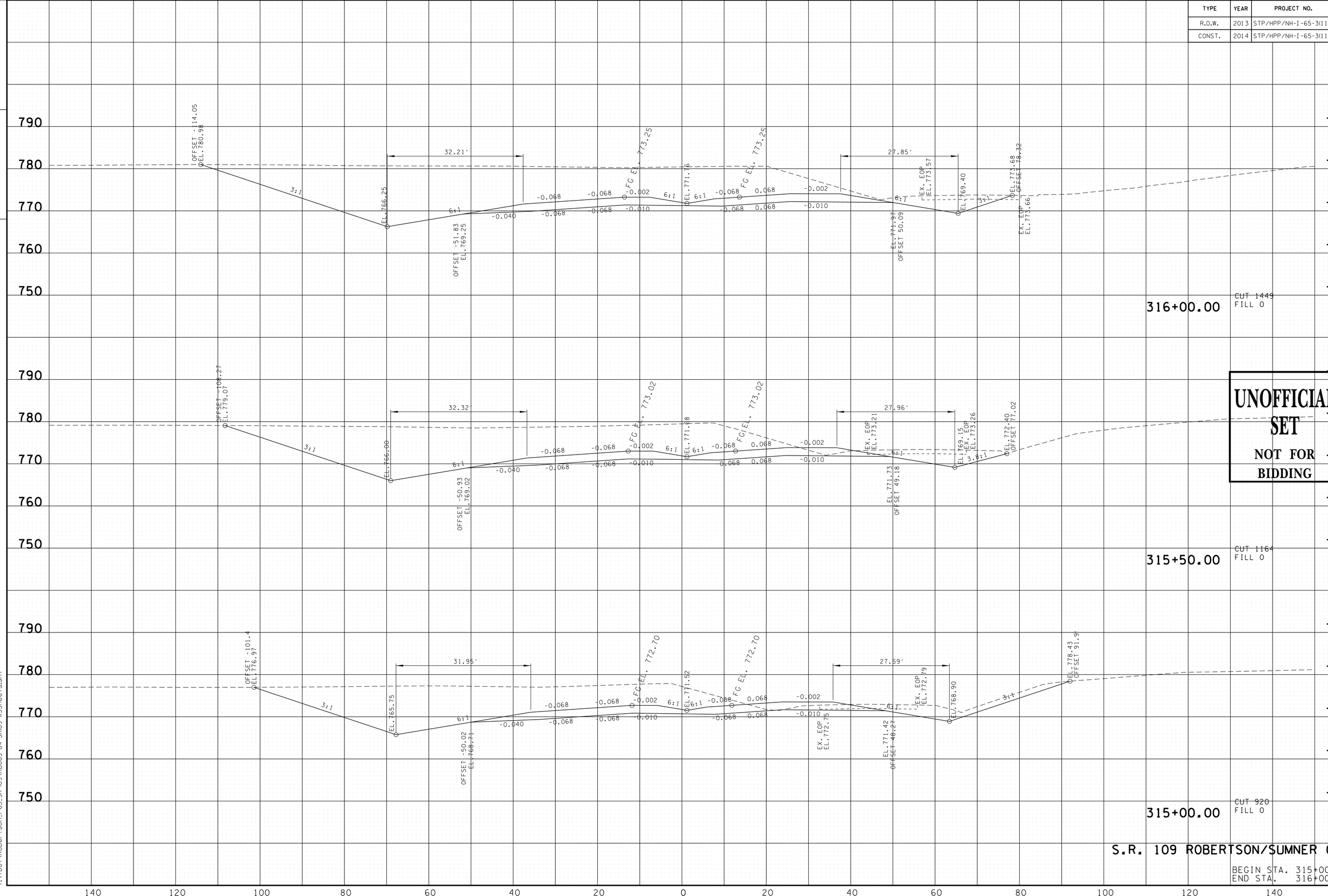
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 313+50.00
END STA. 314+50.00

9/23/2014 8:27:42 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	151
CONST.	2014	STP/HPP/NH-I-65-3(113)	205

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

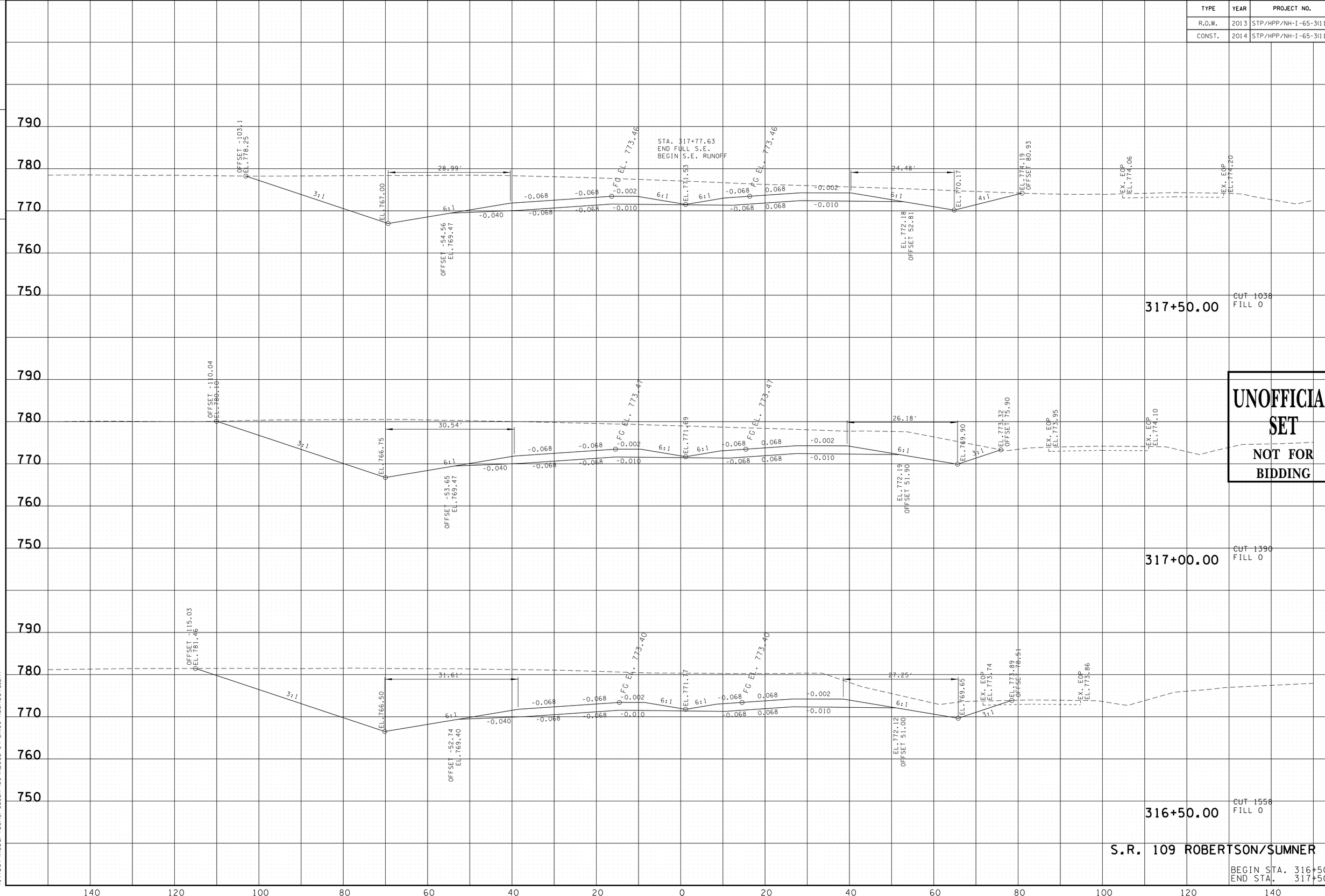
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 315+00.00
END STA. 316+00.00

9/23/2014 8:27:46 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	152
CONST.	2014	STP/HPP/NH-I-65-3(113)	206

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 316+50.00
END STA. 317+50.00

9/23/2014 8:27:49 PM
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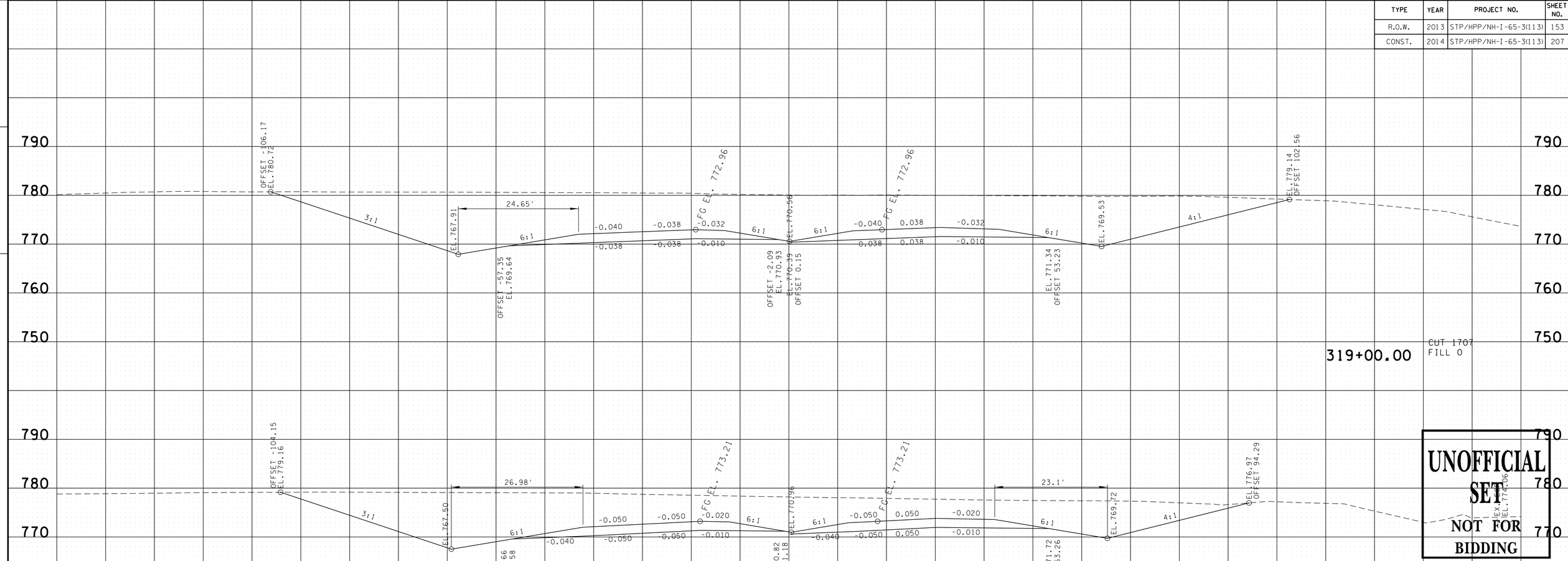
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	153
CONST.	2014	STP/HPP/NH-I-65-3(113)	207

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 318+00.00
END STA. 319+00.00

9/23/2014 8:27:52 PM
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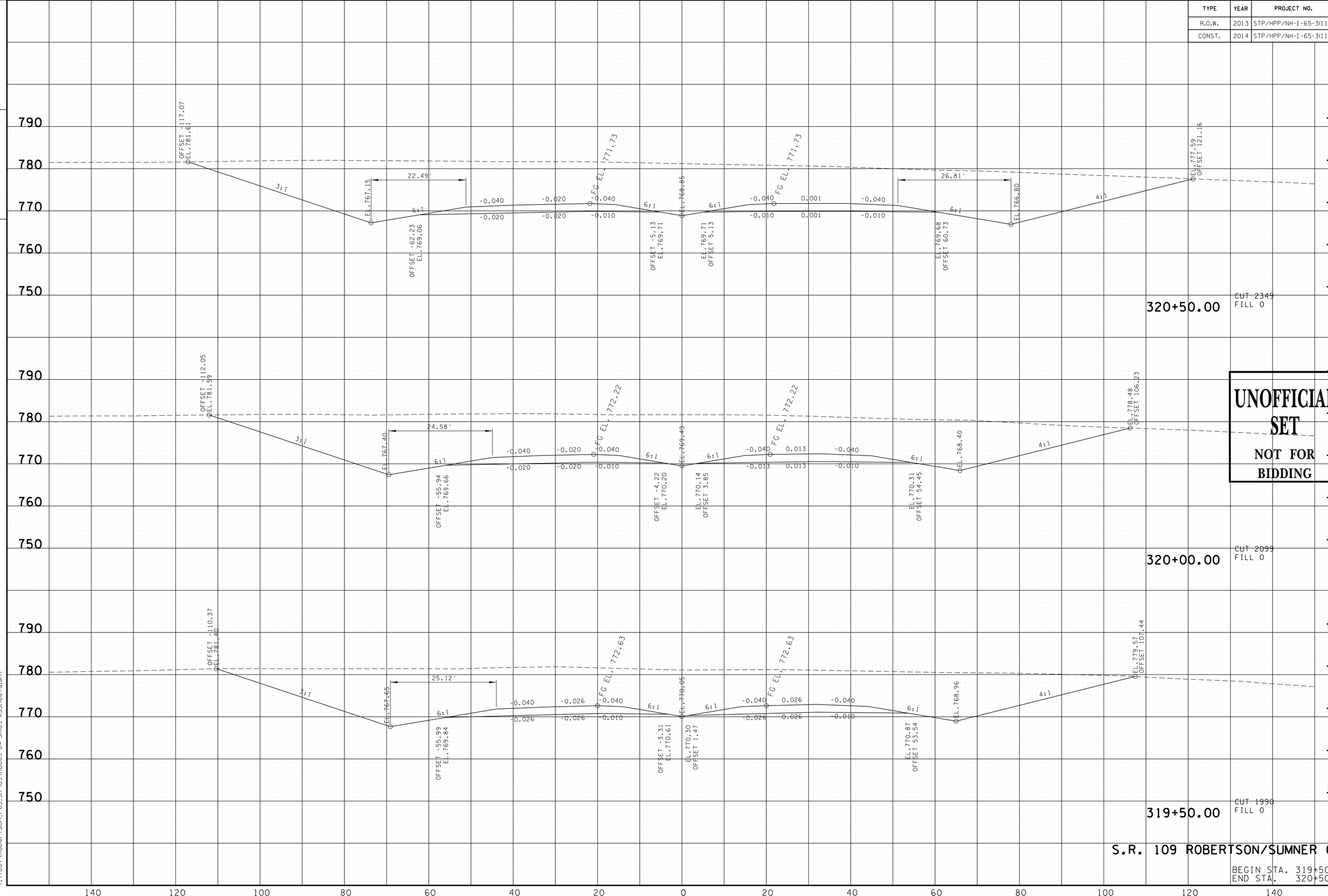
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	154
CONST.	2014	STP/HPP/NH-I-65-3(113)	208

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 319+50.00
END STA. 320+50.00

9/23/2014 8:27:55 PM
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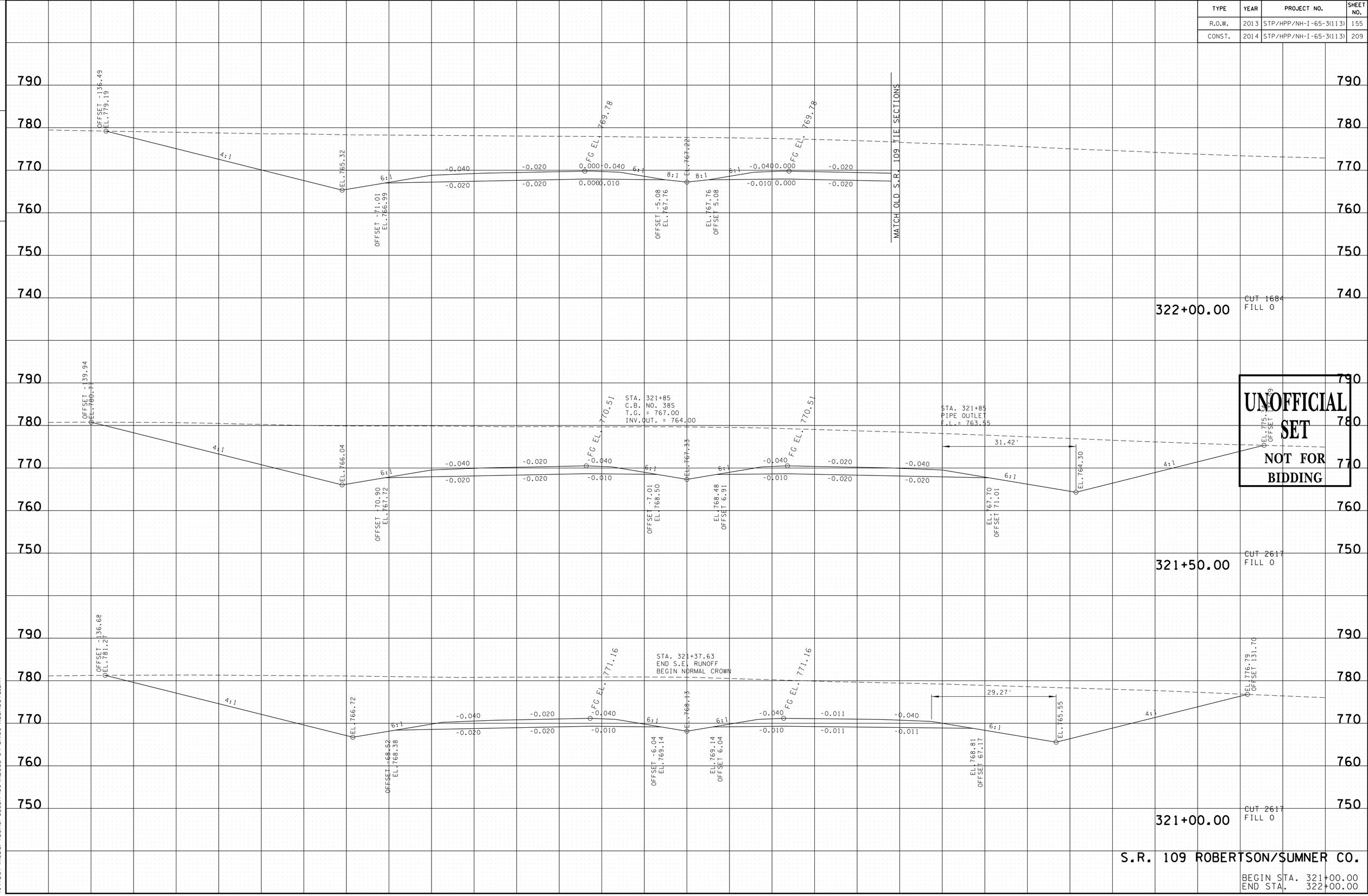
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	155
CONST.	2014	STP/HPP/NH-I-65-3(113)	209

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

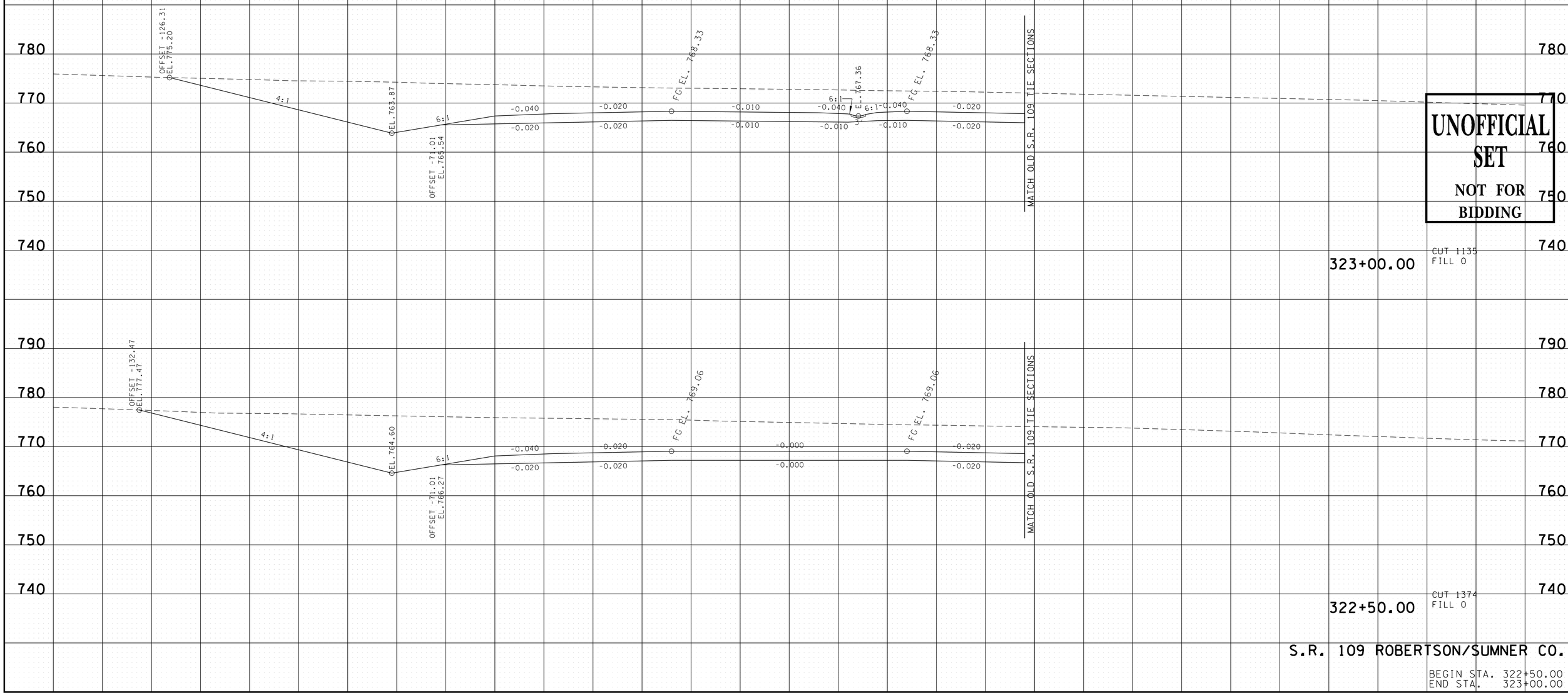
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 321+00.00
END STA. 322+00.00

9/23/2014 8:27:59 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	156
CONST.	2014	STP/HPP/NH-I-65-3(113)	210

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

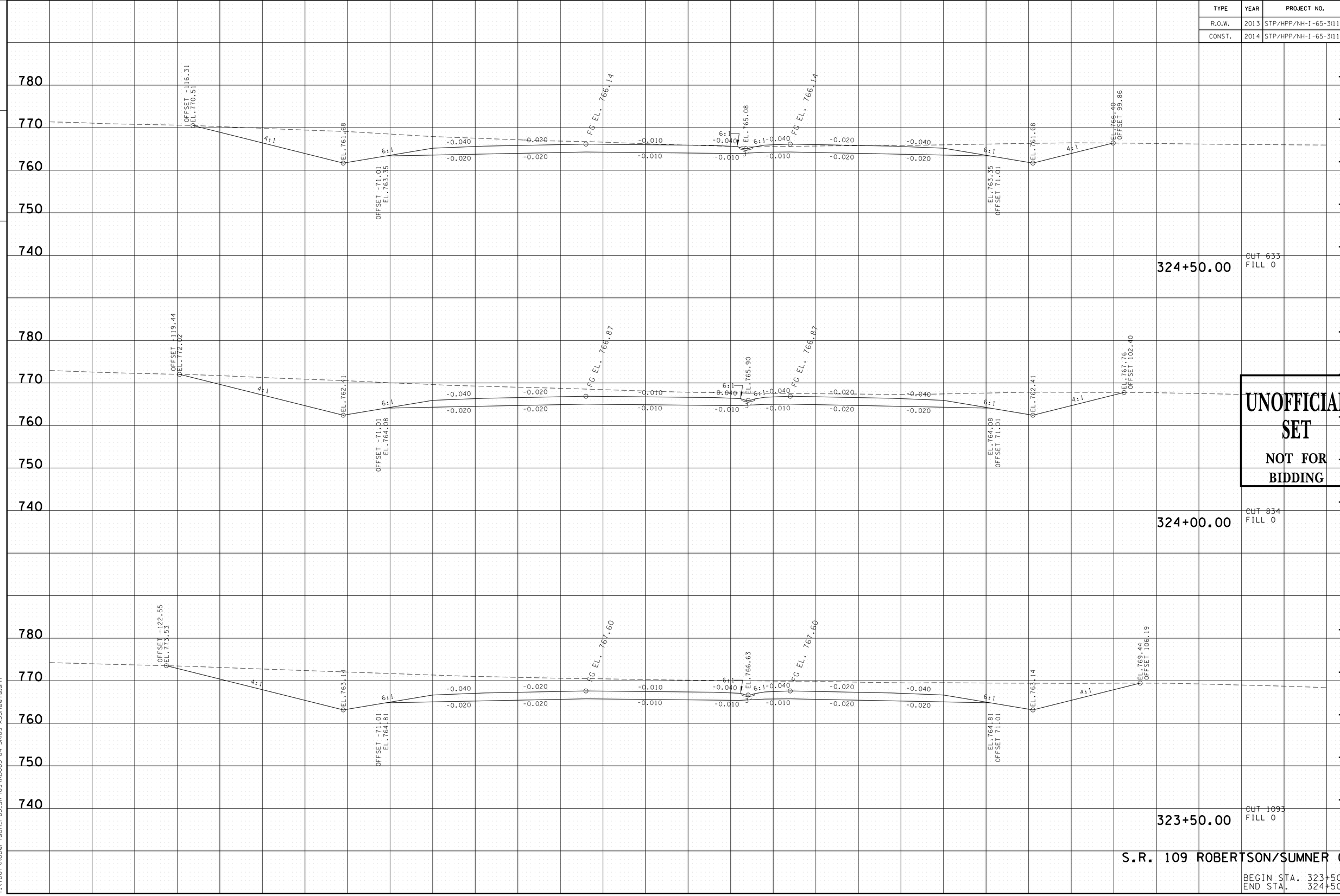
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 322+50.00
END STA. 323+00.00

9/23/2014 8:28:02 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	157
CONST.	2014	STP/HPP/NH-I-65-3(113)	211

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

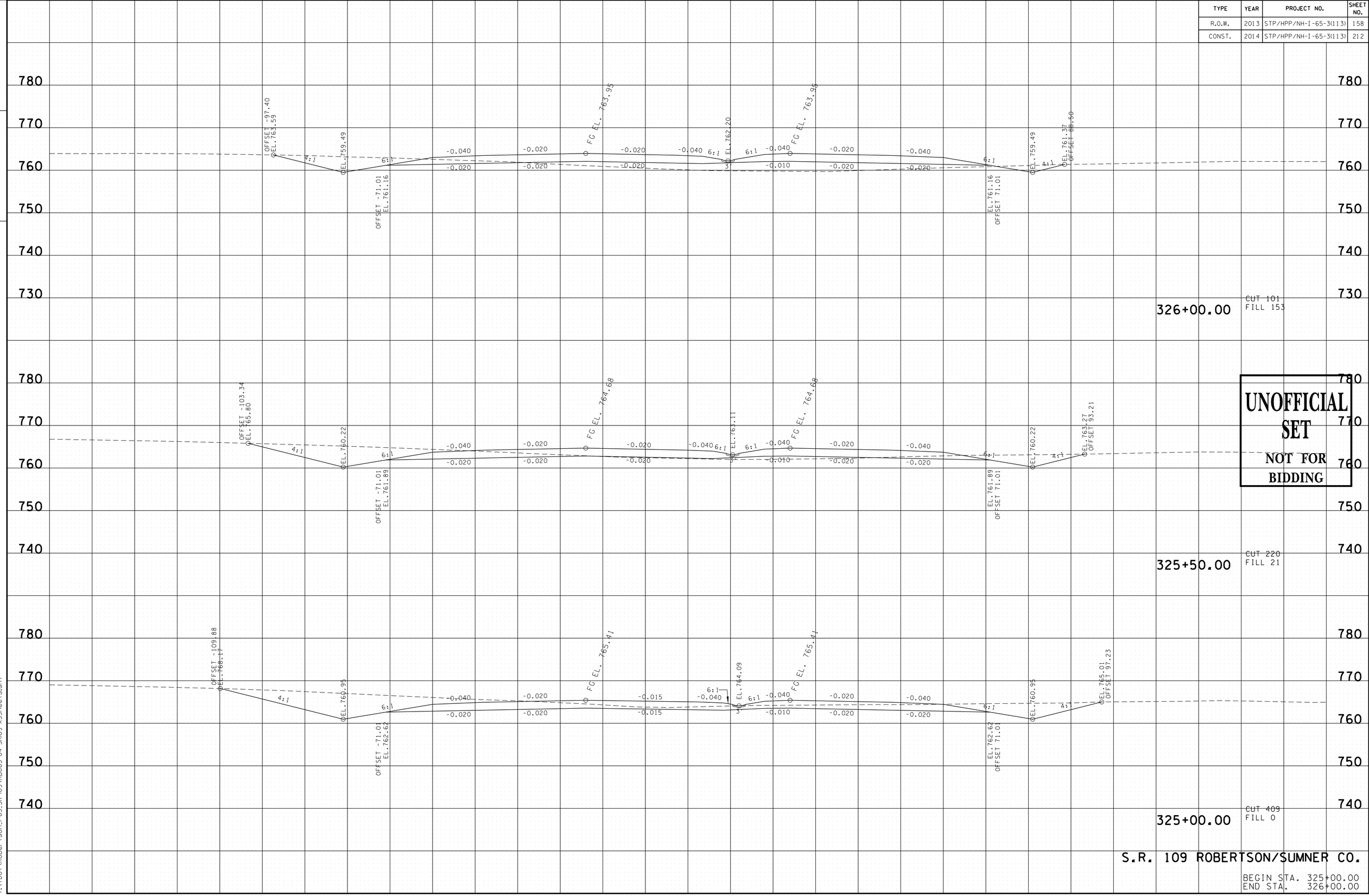
BEGIN STA. 323+50.00
END STA. 324+50.00

9/23/2014 8:28:05 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	158
CONST.	2014	STP/HPP/NH-I-65-3(113)	212

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 325+00.00
END STA. 326+00.00

9/23/2014 8:28:08 PM
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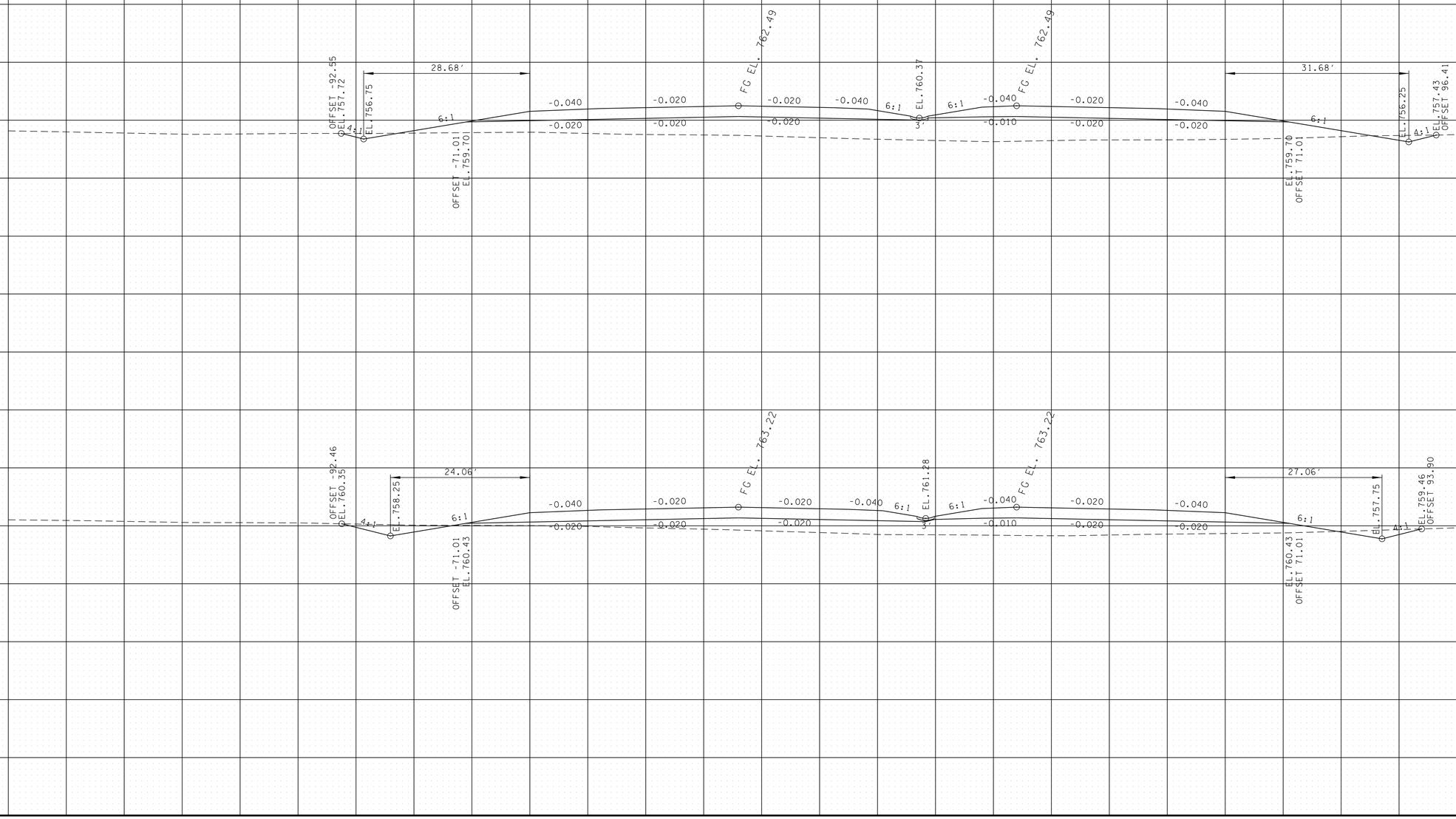
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	159
CONST.	2014	STP/HPP/NH-I-65-3(113)	213

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 11
FILL 489
327+00.00

CUT 29
FILL 289
326+50.00

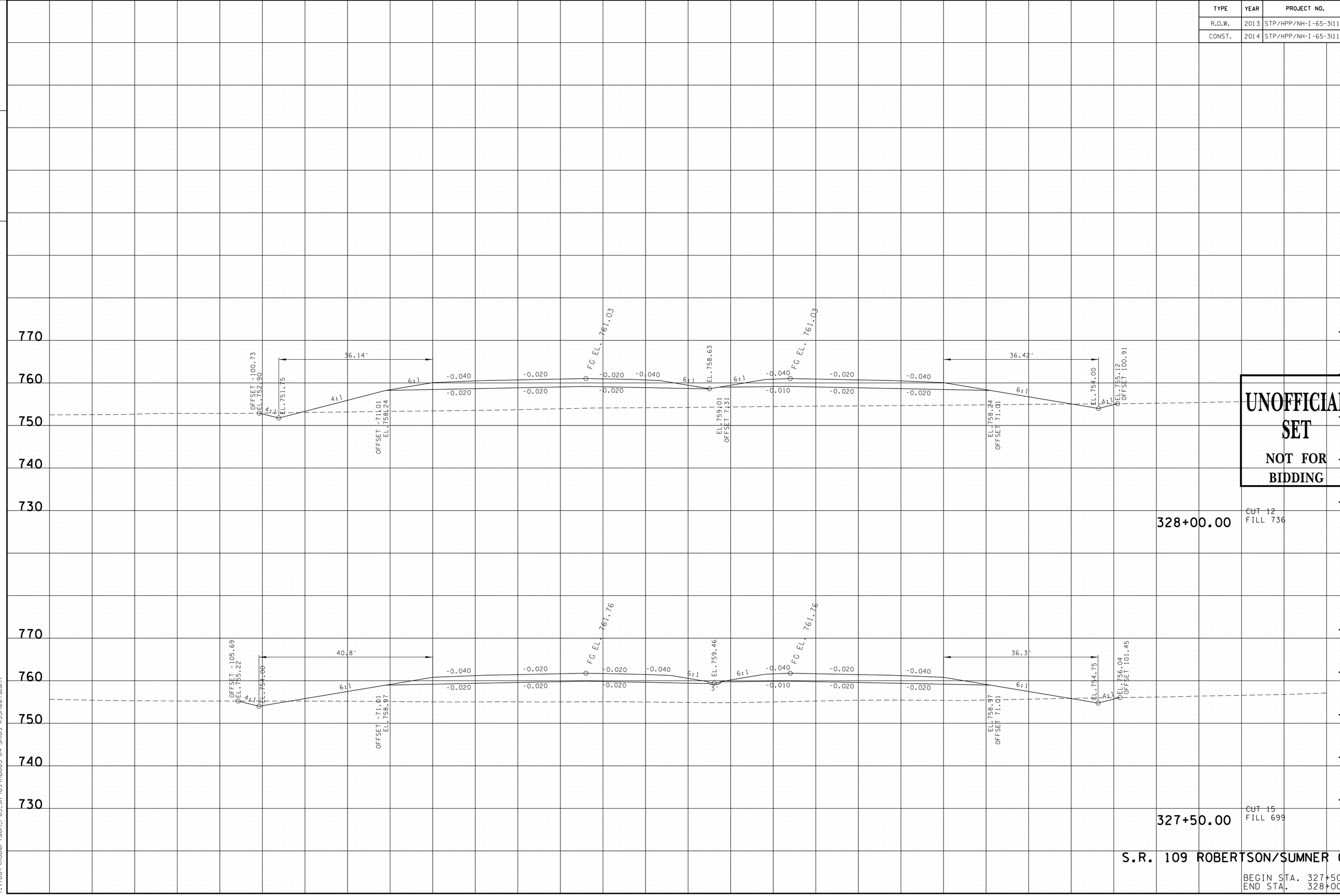
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 326+50.00
END STA. 327+00.00

9/23/2014 8:28:12 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	160
CONST.	2014	STP/HPP/NH-I-65-3(113)	214

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

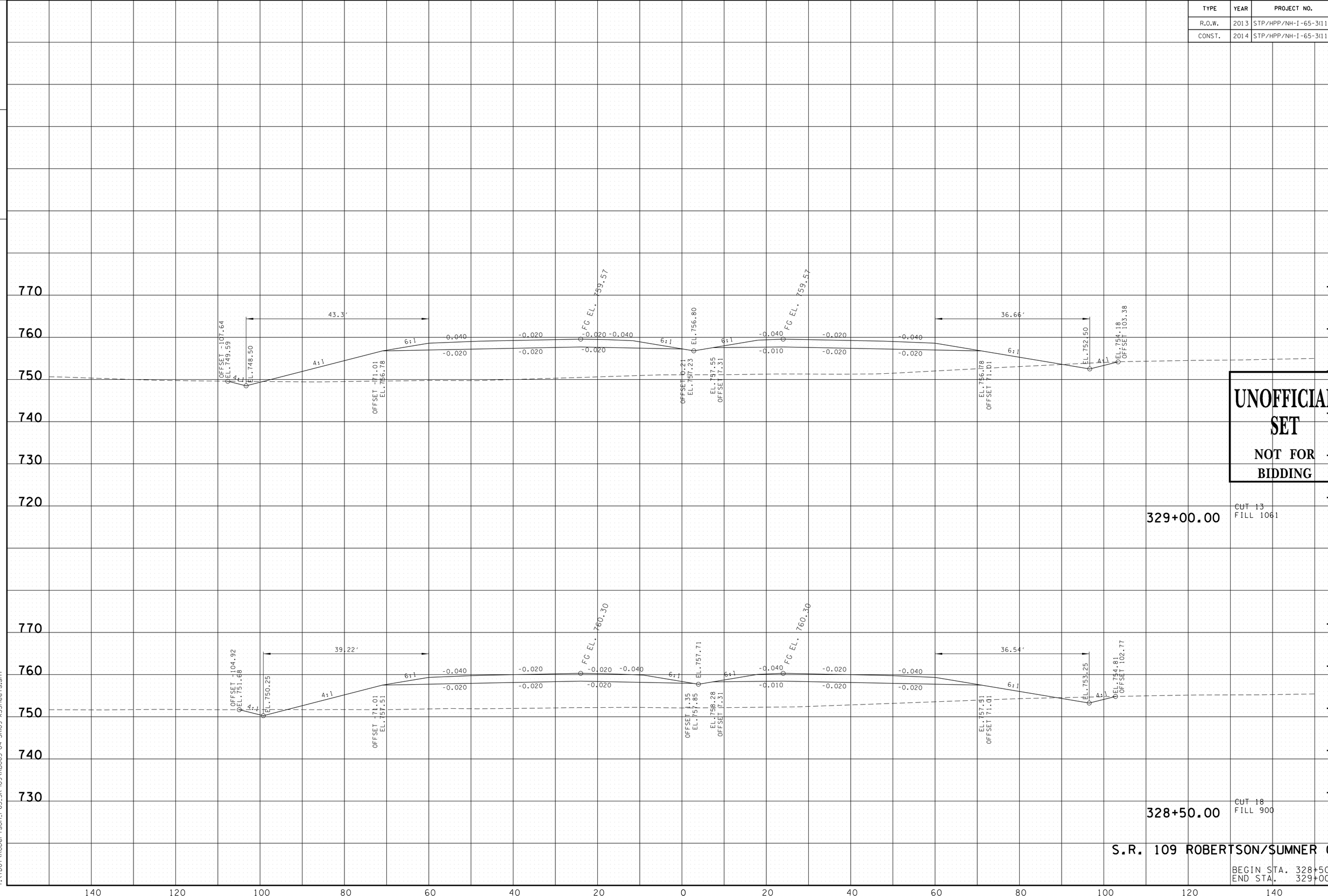
BEGIN STA. 327+50.00
END STA. 328+00.00

9/23/2014 8:28:15 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	161
CONST.	2014	STP/HPP/NH-I-65-3(113)	215

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

329+00.00
CUT 13
FILL 1061

328+50.00
CUT 18
FILL 900

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 328+50.00
END STA. 329+00.00

9/23/2014 8:28:18 PM
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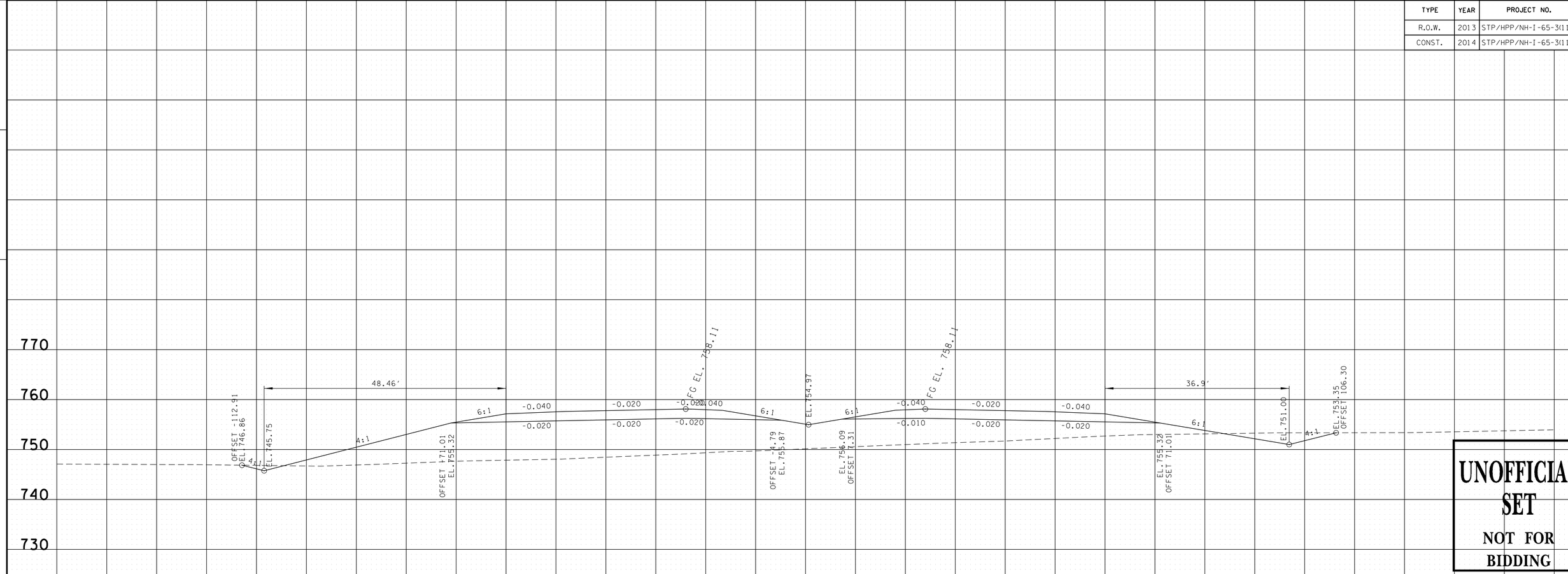
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	162
CONST.	2014	STP/HPP/NH-I-65-3(113)	216

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

330+00.00
CUT 31
FILL 954

329+50.00
CUT 24
FILL 1066

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 329+50.00
END STA. 330+00.00

9/23/2014 8:28:21 PM
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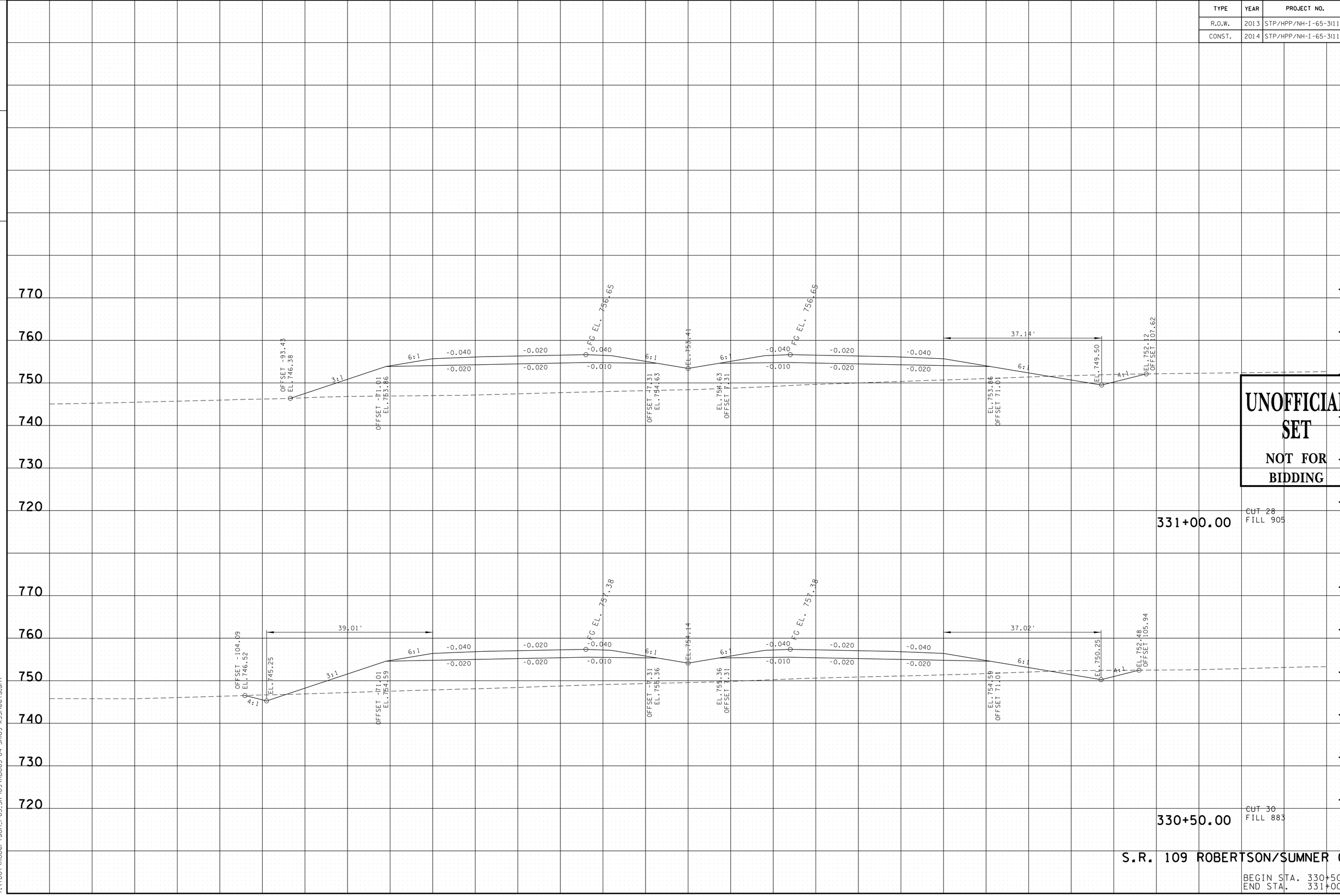
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	163
CONST.	2014	STP/HPP/NH-I-65-3(113)	217



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

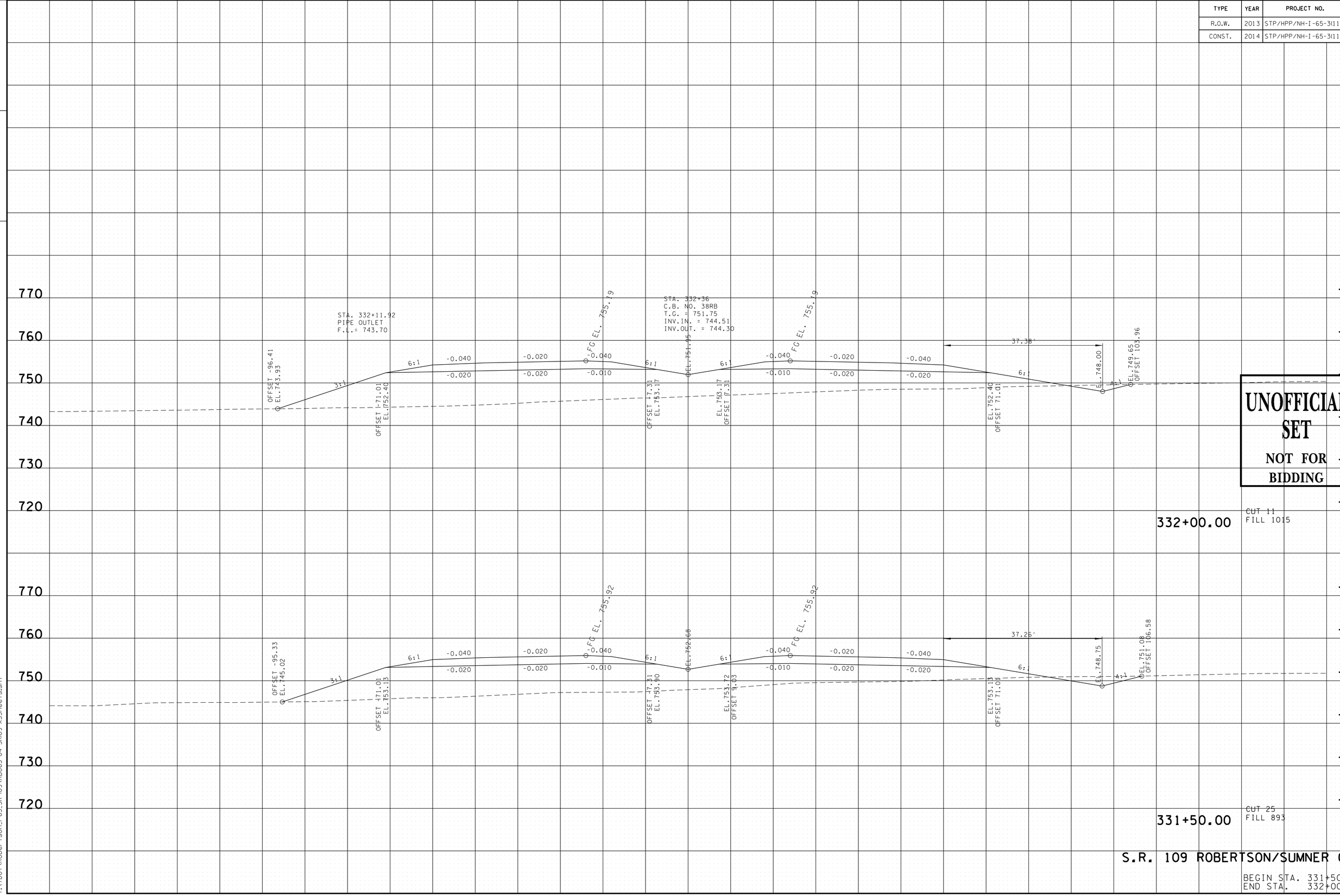
BEGIN STA. 330+50.00
END STA. 331+00.00

9/23/2014 8:28:25 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	164
CONST.	2014	STP/HPP/NH-I-65-3(113)	218



CUT 11
FILL 1015
332+00.00

CUT 25
FILL 893
331+50.00

UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 331+50.00
END STA. 332+00.00

9/23/2014 8:28:28 PM
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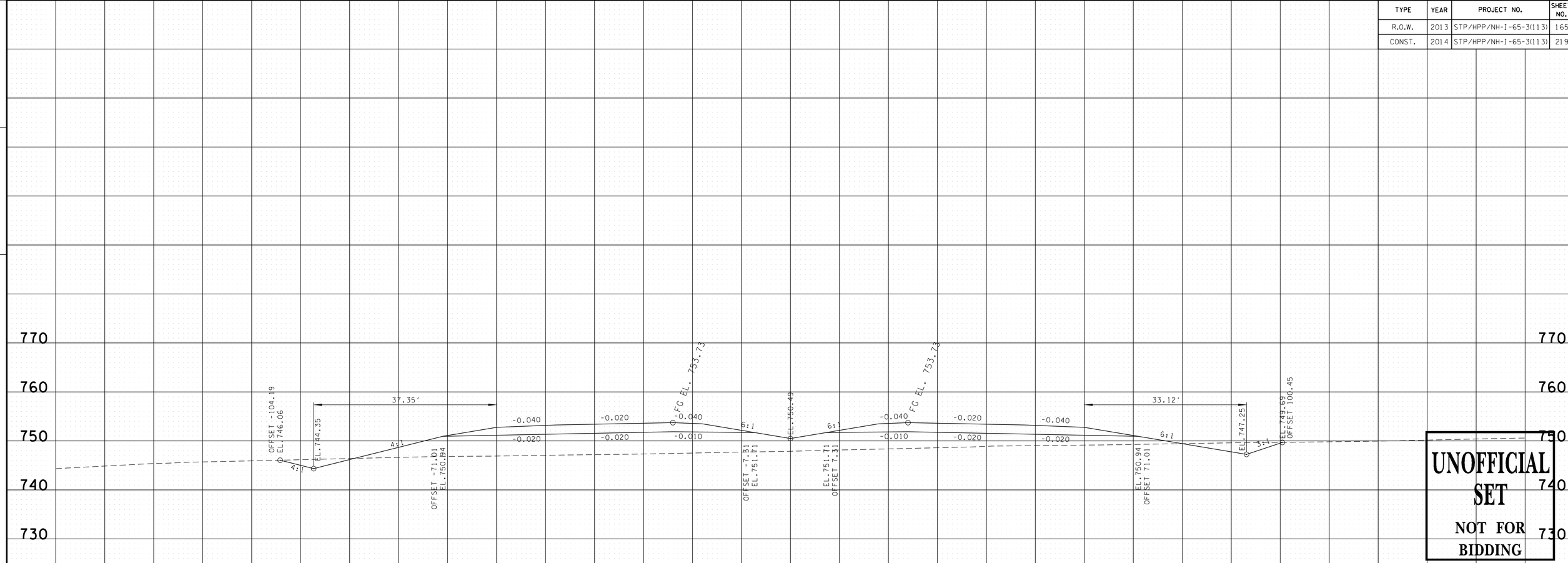
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	165
CONST.	2014	STP/HPP/NH-I-65-3(113)	219

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

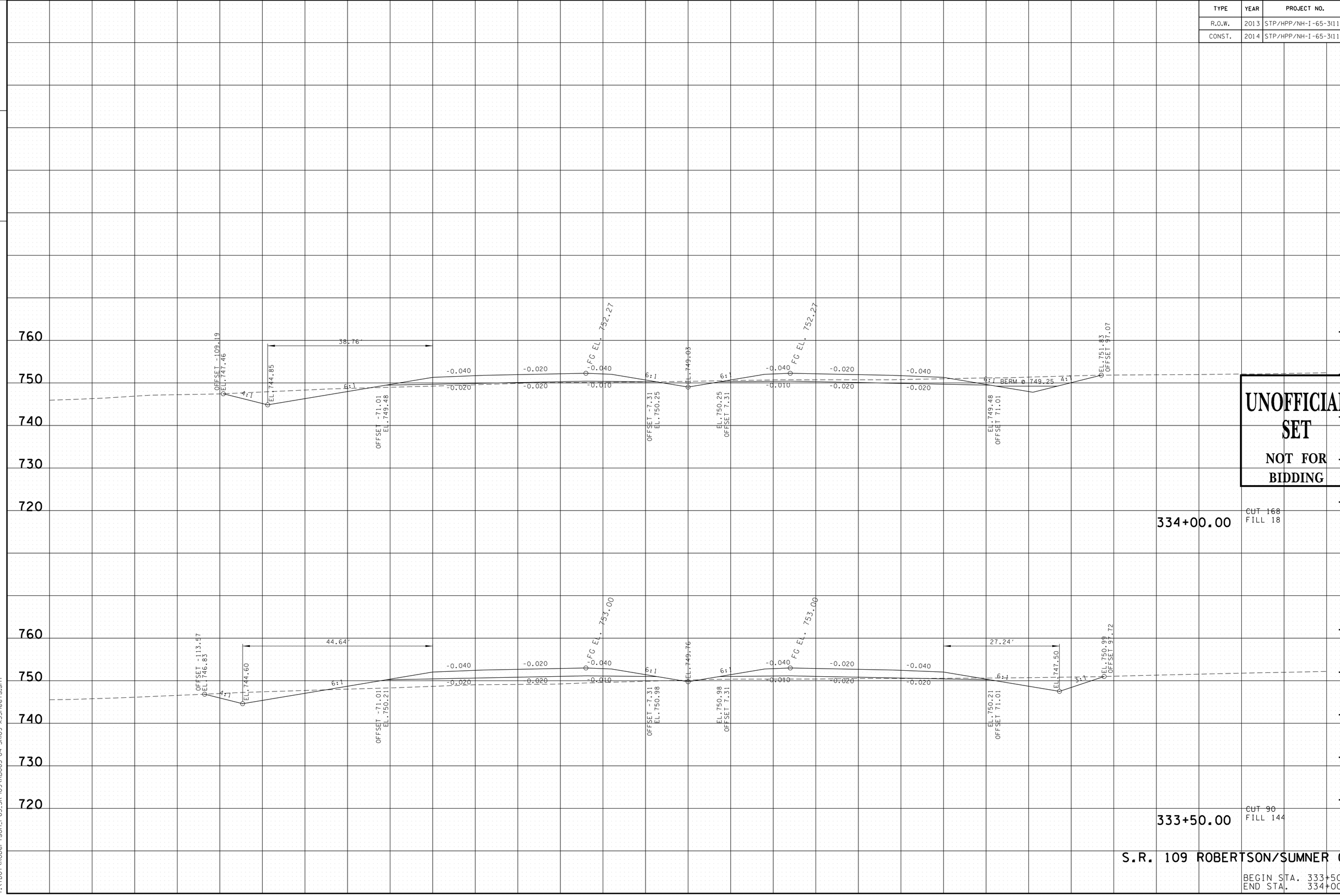
BEGIN STA. 332+50.00
END STA. 333+00.00

9/23/2014 8:28:31 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	166
CONST.	2014	STP/HPP/NH-I-65-3(113)	220



UNOFFICIAL SET
NOT FOR BIDDING

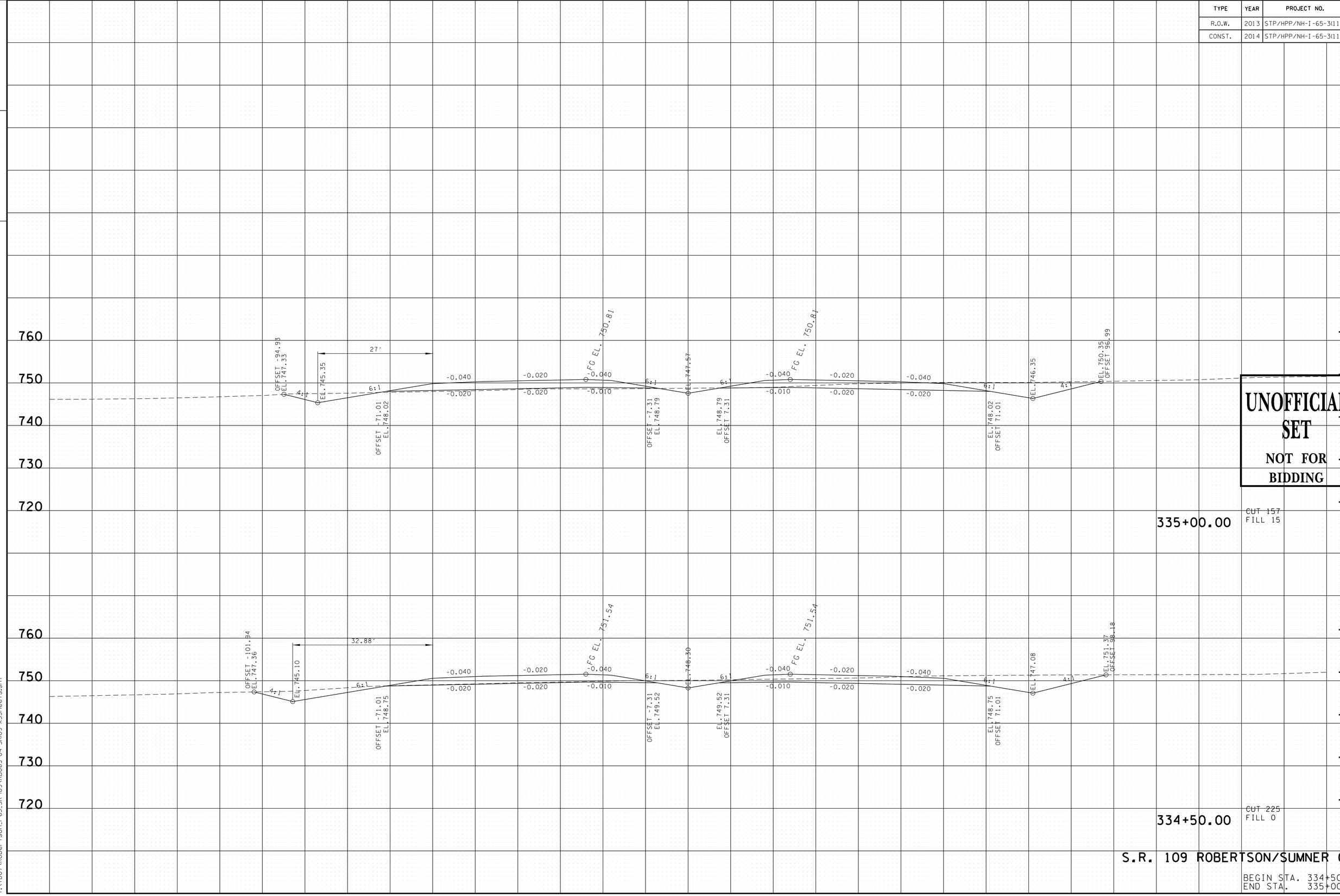
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 333+50.00
END STA. 334+00.00

9/23/2014 8:28:34 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	167
CONST.	2014	STP/HPP/NH-I-65-3(113)	221

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 334+50.00
END STA. 335+00.00

9/23/2014 8:28:38 PM
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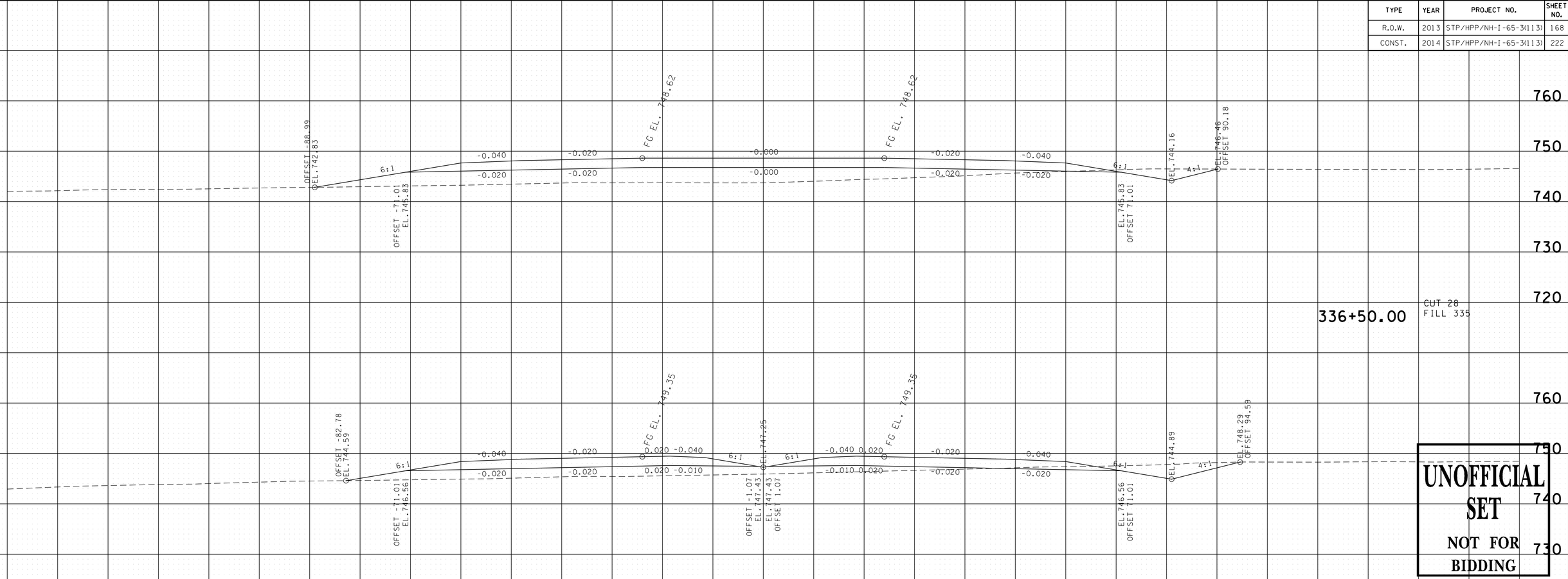
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	168
CONST.	2014	STP/HPP/NH-I-65-3(113)	222

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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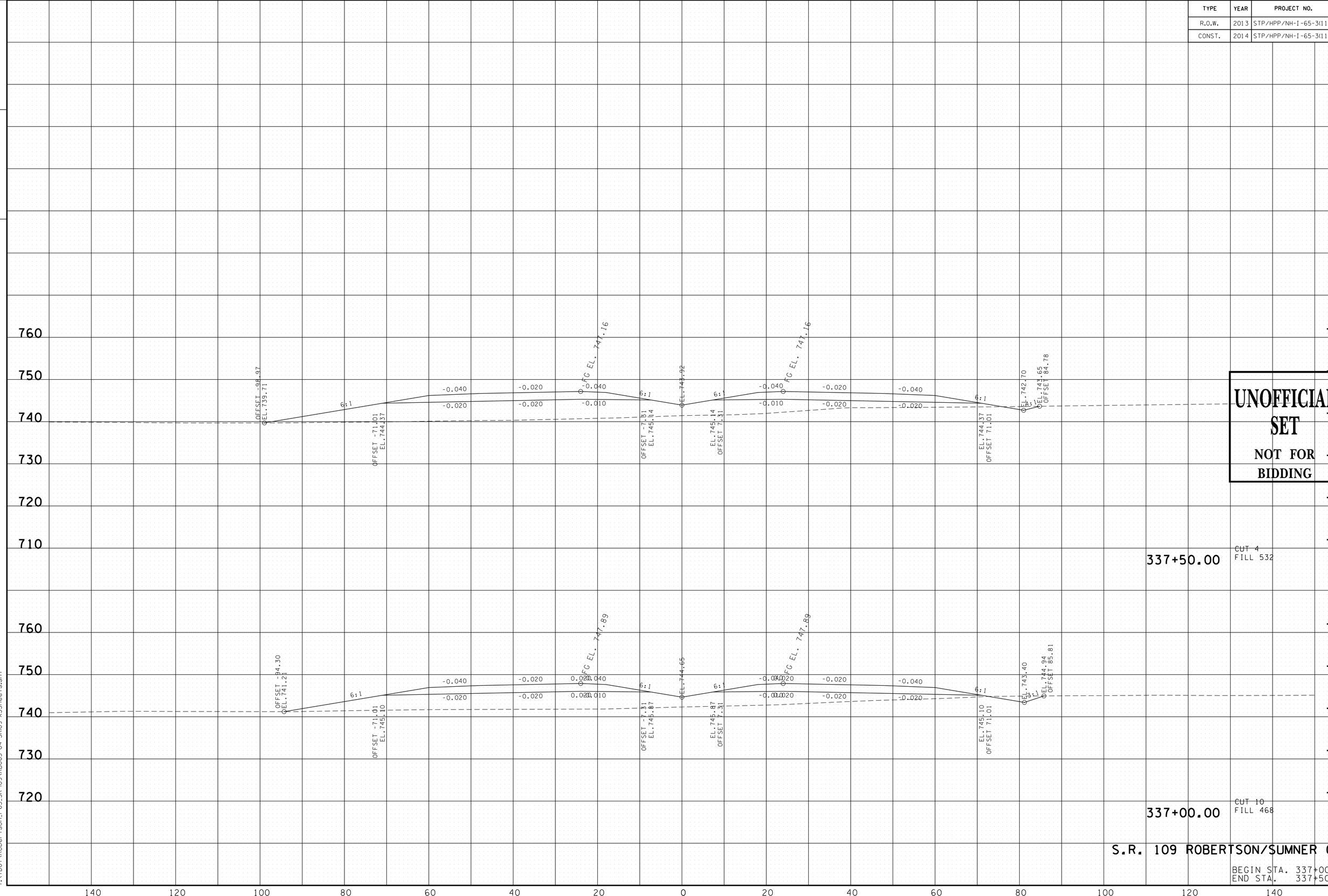
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	169
CONST.	2014	STP/HPP/NH-I-65-3(113)	223

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

337+50.00
CUT 4
FILL 532

337+00.00
CUT 10
FILL 468

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 337+00.00
END STA. 337+50.00

9/23/2014 8:28:44 PM
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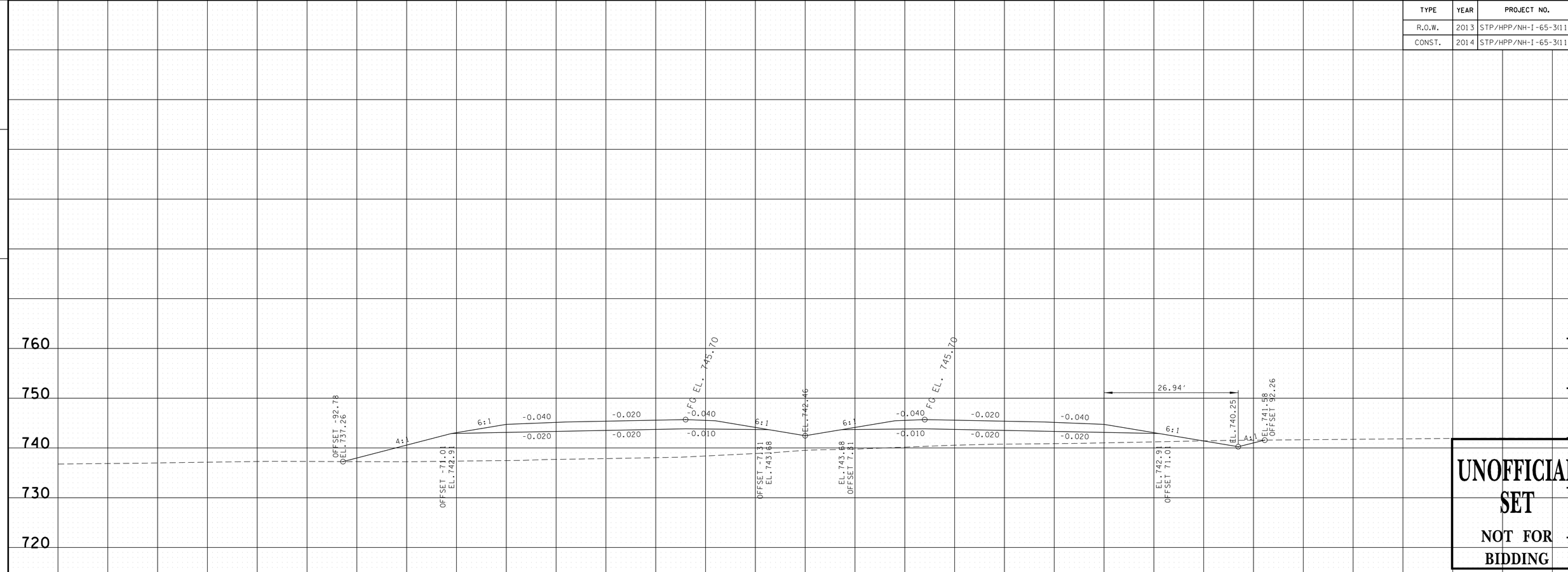
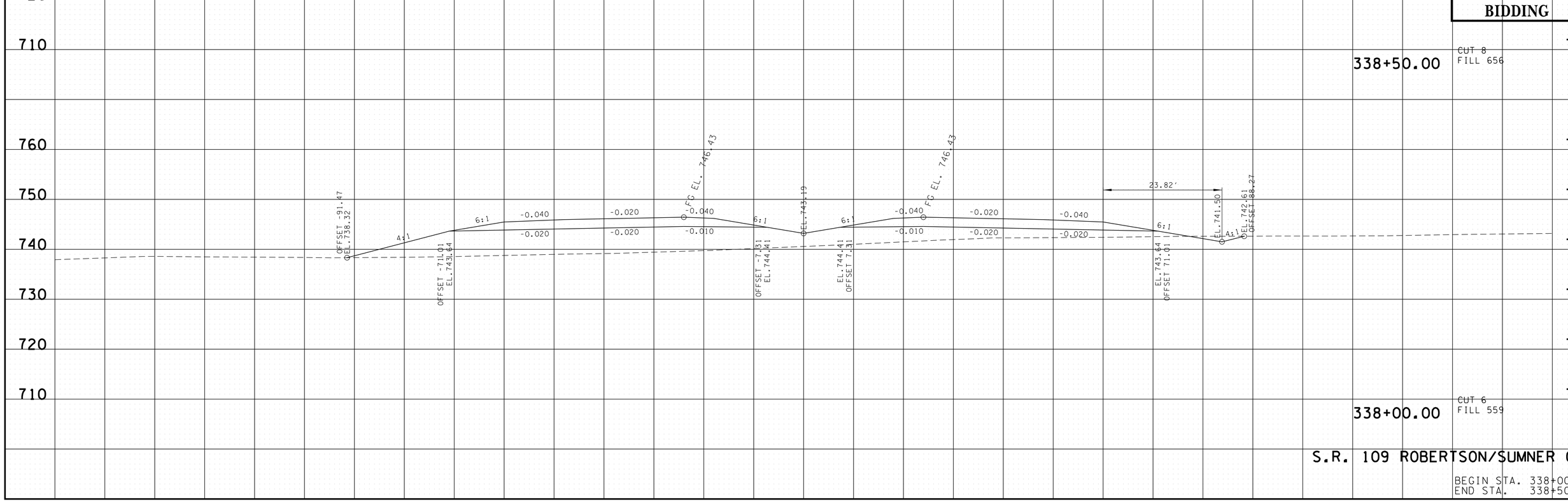
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	170
CONST.	2014	STP/HPP/NH-I-65-3(113)	224

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



338+50.00
CUT 8
FILL 656



338+00.00
CUT 6
FILL 559

UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 338+00.00
END STA. 338+50.00

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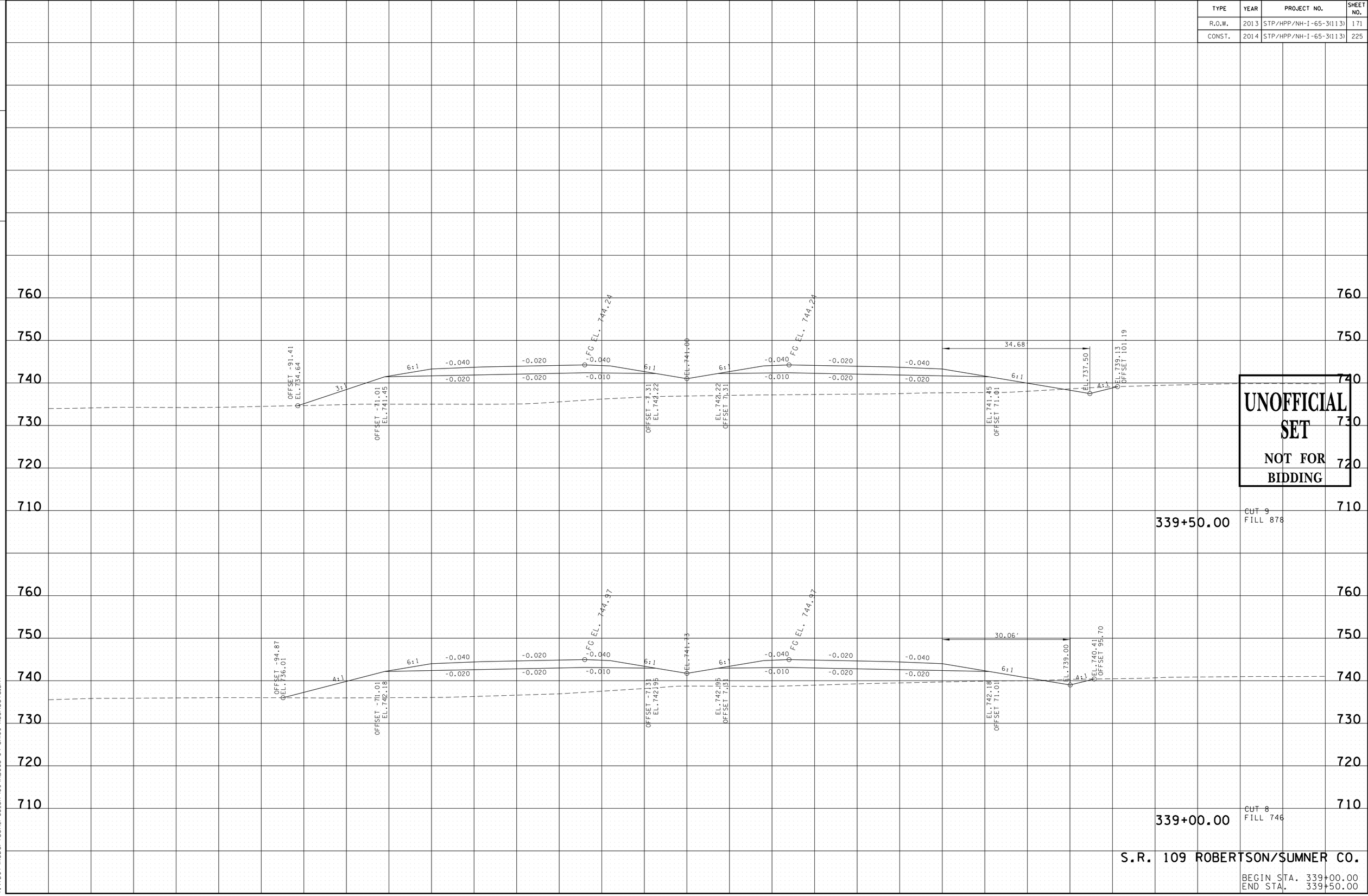
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	171
CONST.	2014	STP/HPP/NH-I-65-3(113)	225

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 339+00.00
END STA. 339+50.00

9/23/2014 8:28:51 PM
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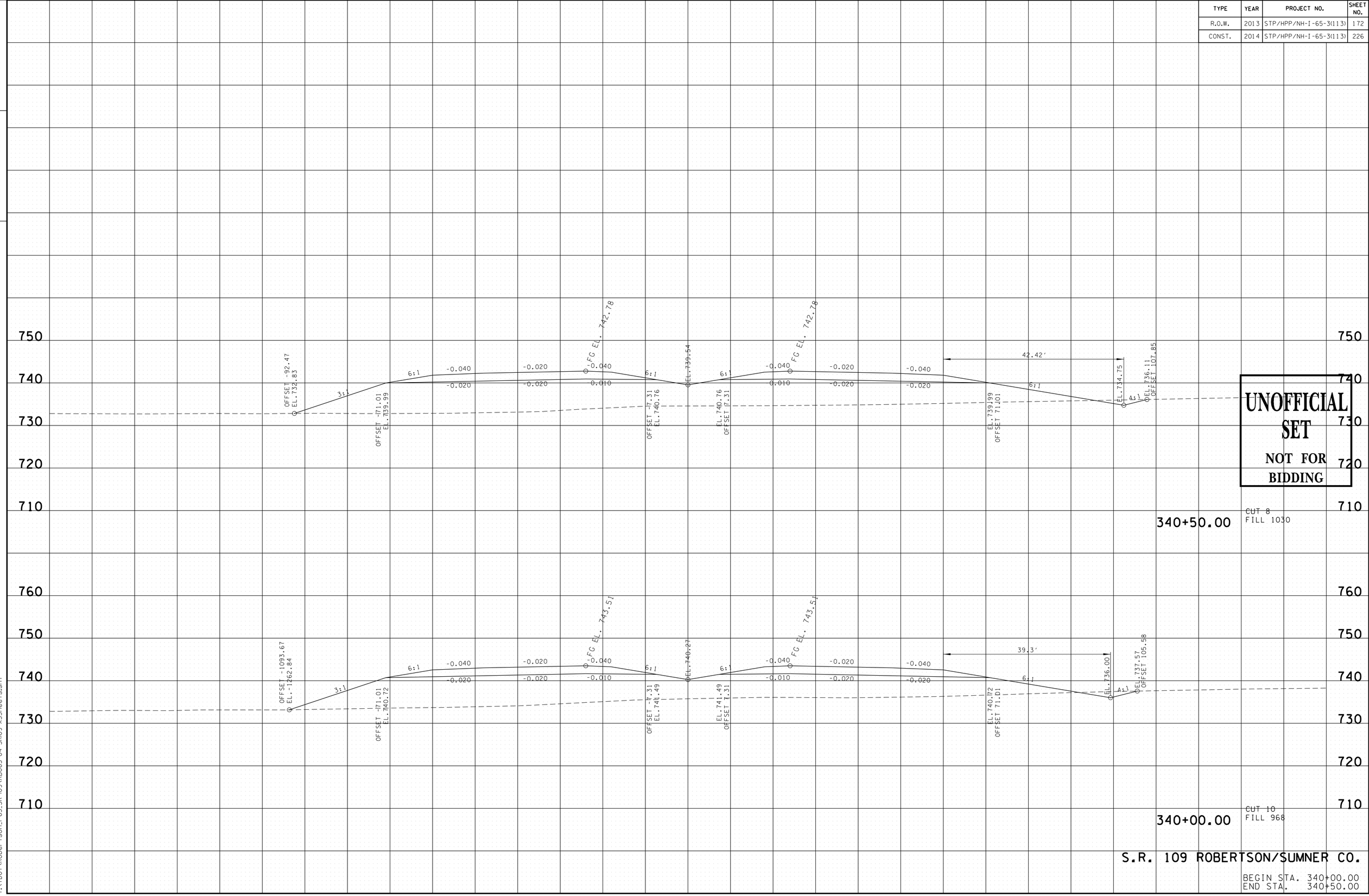
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	172
CONST.	2014	STP/HPP/NH-I-65-3(113)	226

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 8
FILL 1030
340+50.00

CUT 10
FILL 968
340+00.00

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 340+00.00
END STA. 340+50.00

9/23/2014 8:28:54 PM
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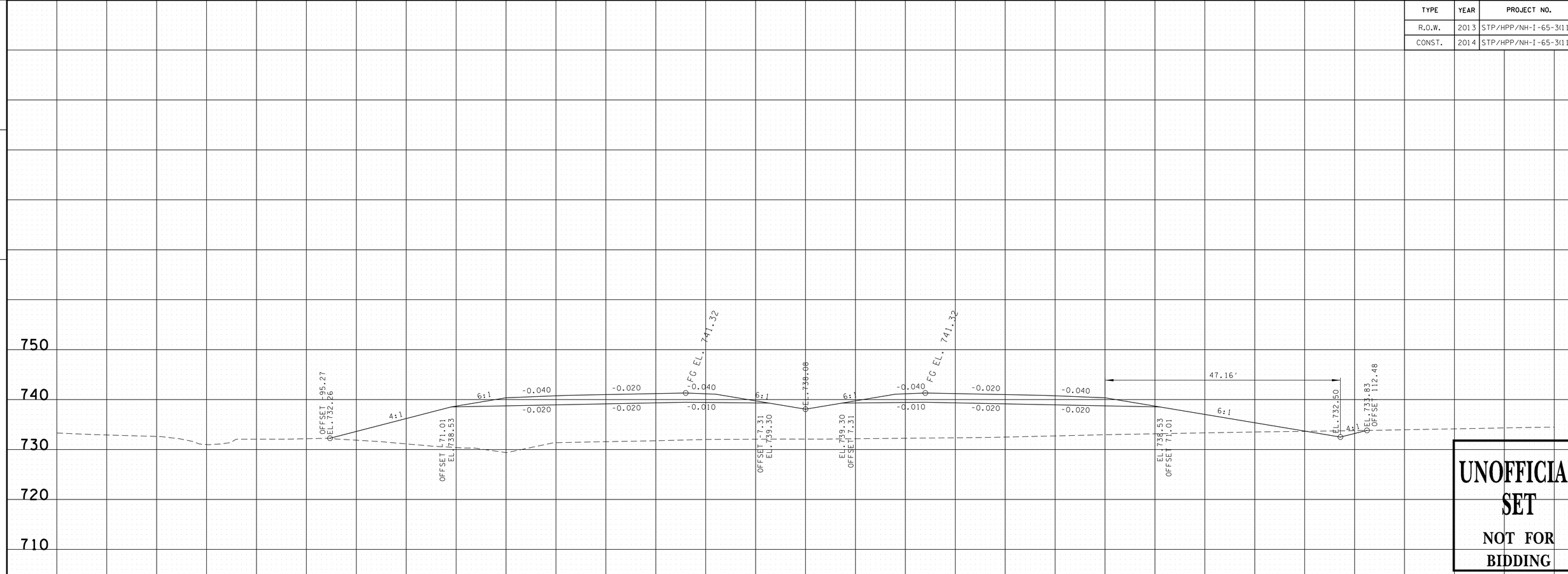
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	173
CONST.	2014	STP/HPP/NH-I-65-3(113)	227

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 8
FILL 1187
341+50.00

CUT 9
FILL 1070
341+00.00

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 341+00.00
END STA. 341+50.00

9/23/2014 8:28:57 PM
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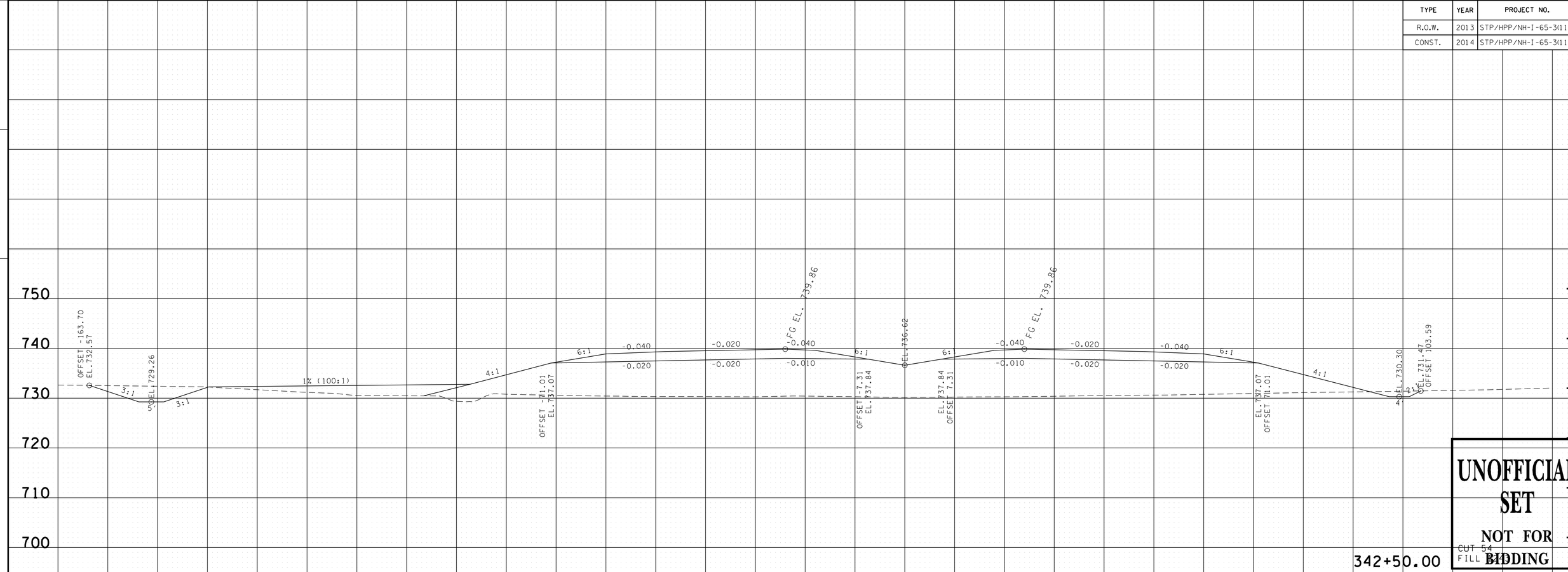
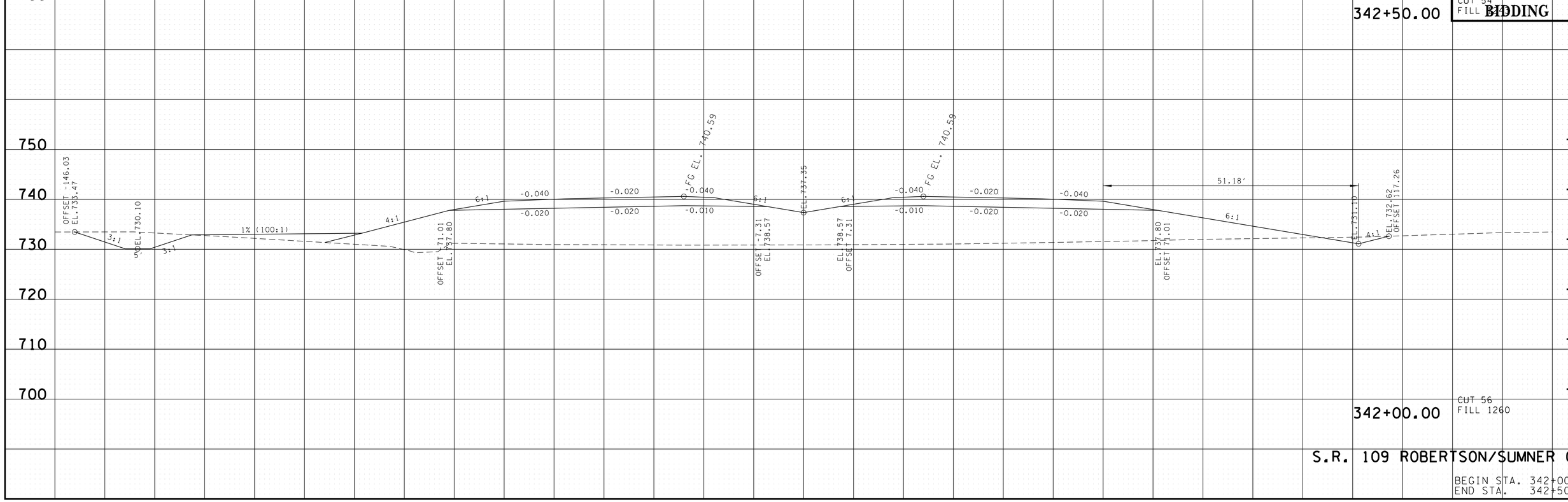
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	174
CONST.	2014	STP/HPP/NH-I-65-3(113)	228

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





S.R. 109 ROBERTSON/SUMNER CO.

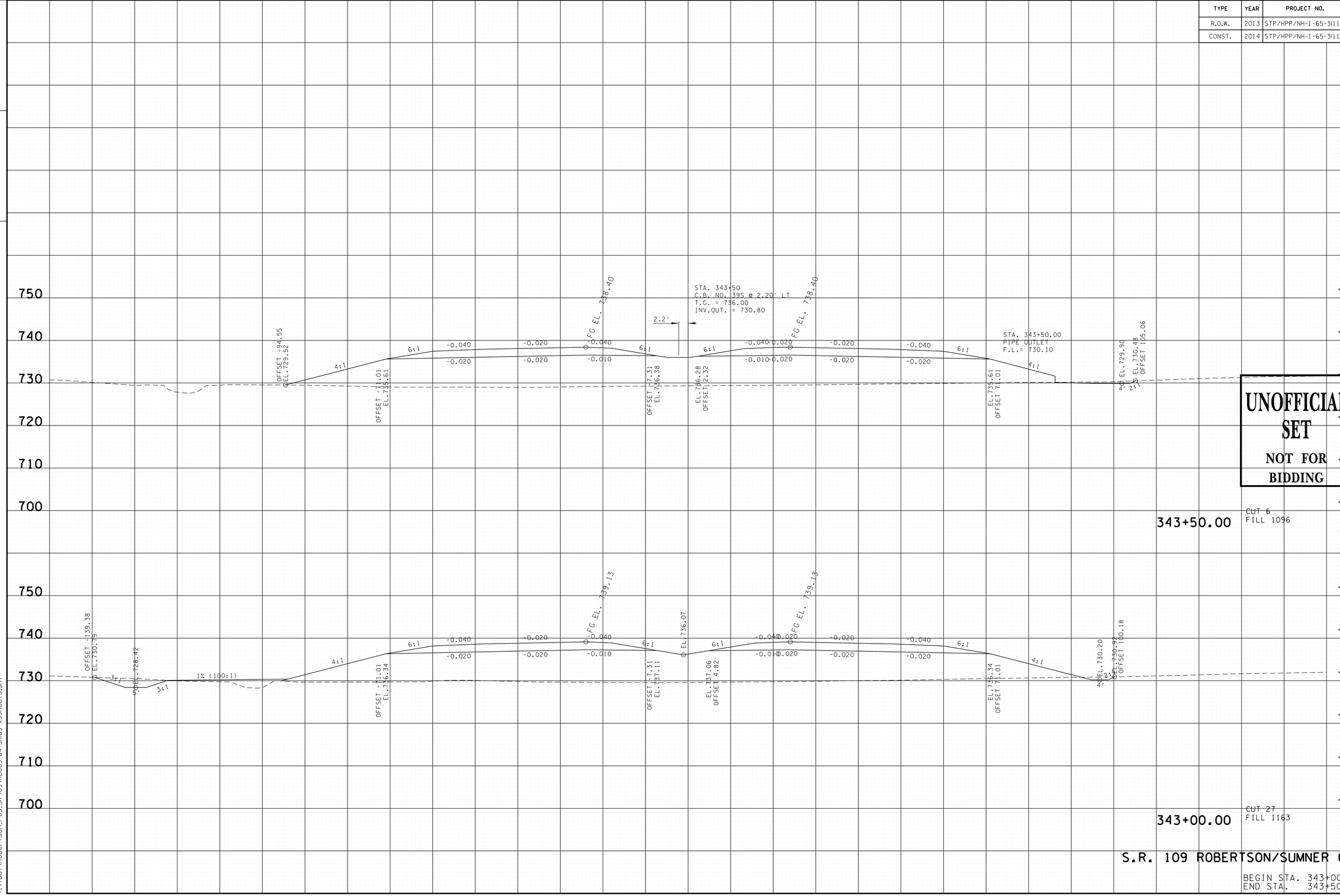
BEGIN STA. 342+00.00
END STA. 342+50.00

9/23/2014 8:29:01 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	175
CONST.	2014	STP/HPP/NH-I-65-3(113)	229

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

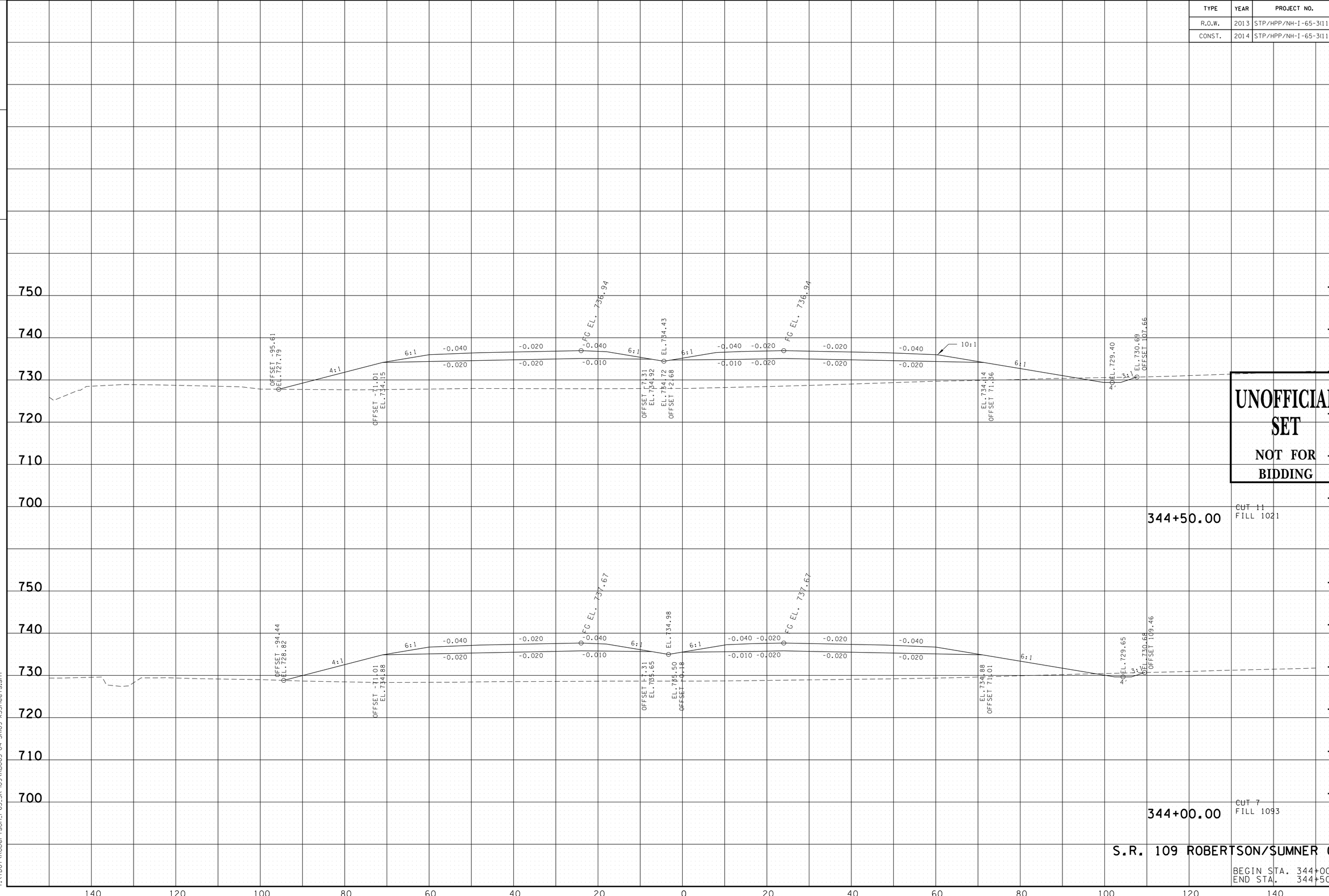
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 343+00.00
END STA. 343+50.00

9/23/2014 8:29:04 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	176
CONST.	2014	STP/HPP/NH-I-65-3(113)	230

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 344+00.00
END STA. 344+50.00

9/23/2014 8:29:07 PM
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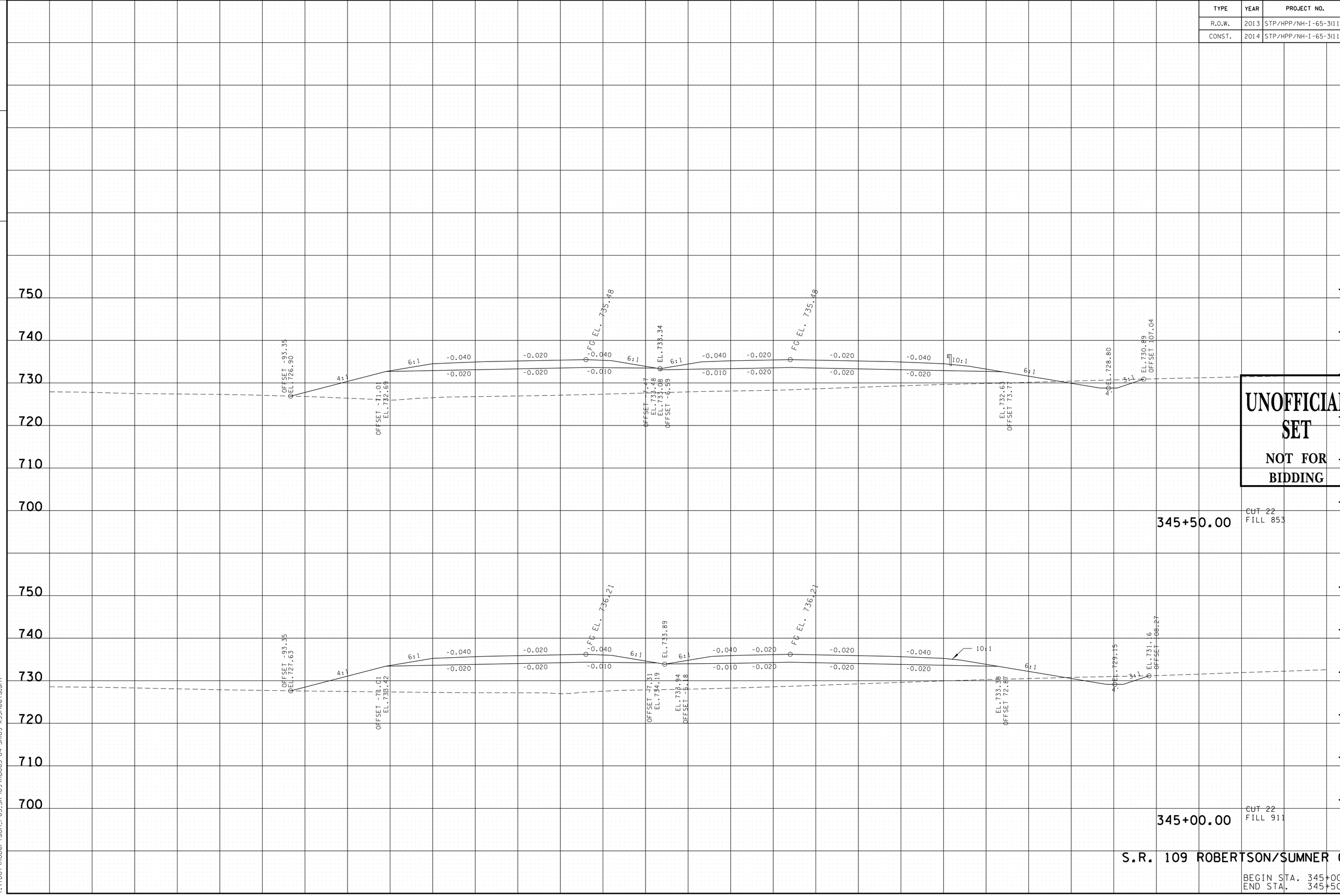
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	177
CONST.	2014	STP/HPP/NH-I-65-3(113)	231

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 345+00.00
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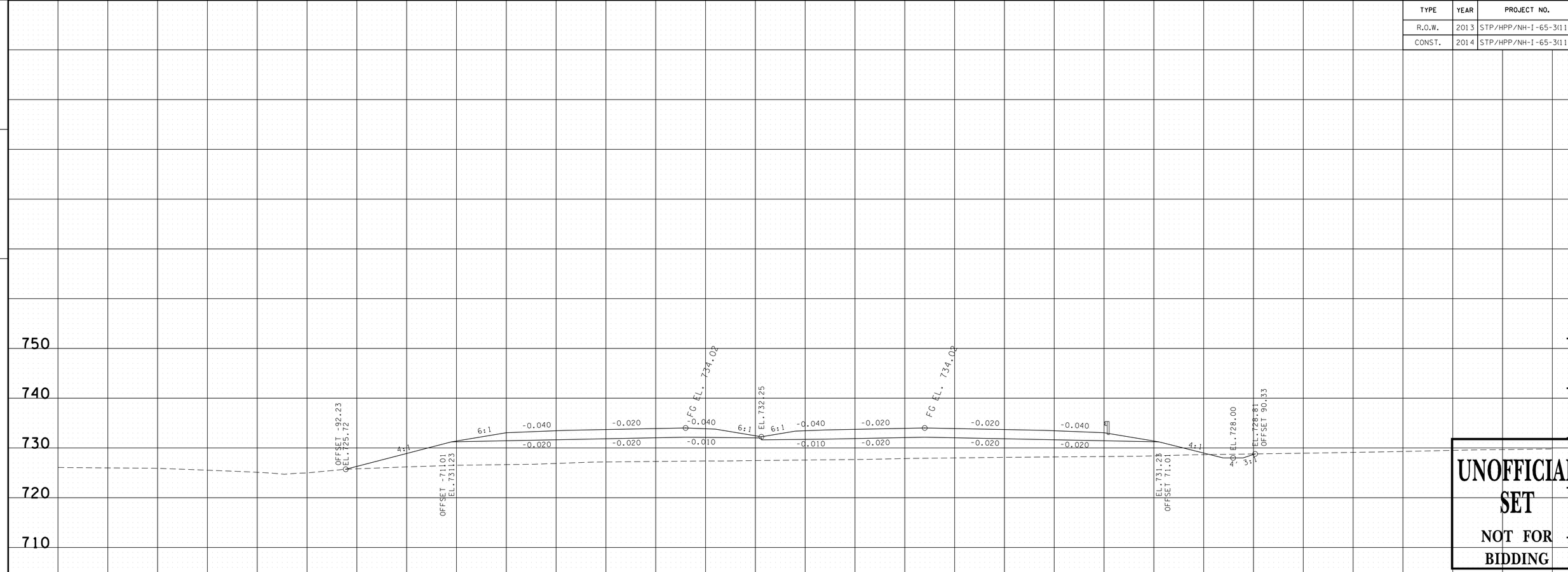
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	178
CONST.	2014	STP/HPP/NH-I-65-3(113)	232

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 346+00.00
END STA. 346+50.00

9/23/2014 8:29:14 PM
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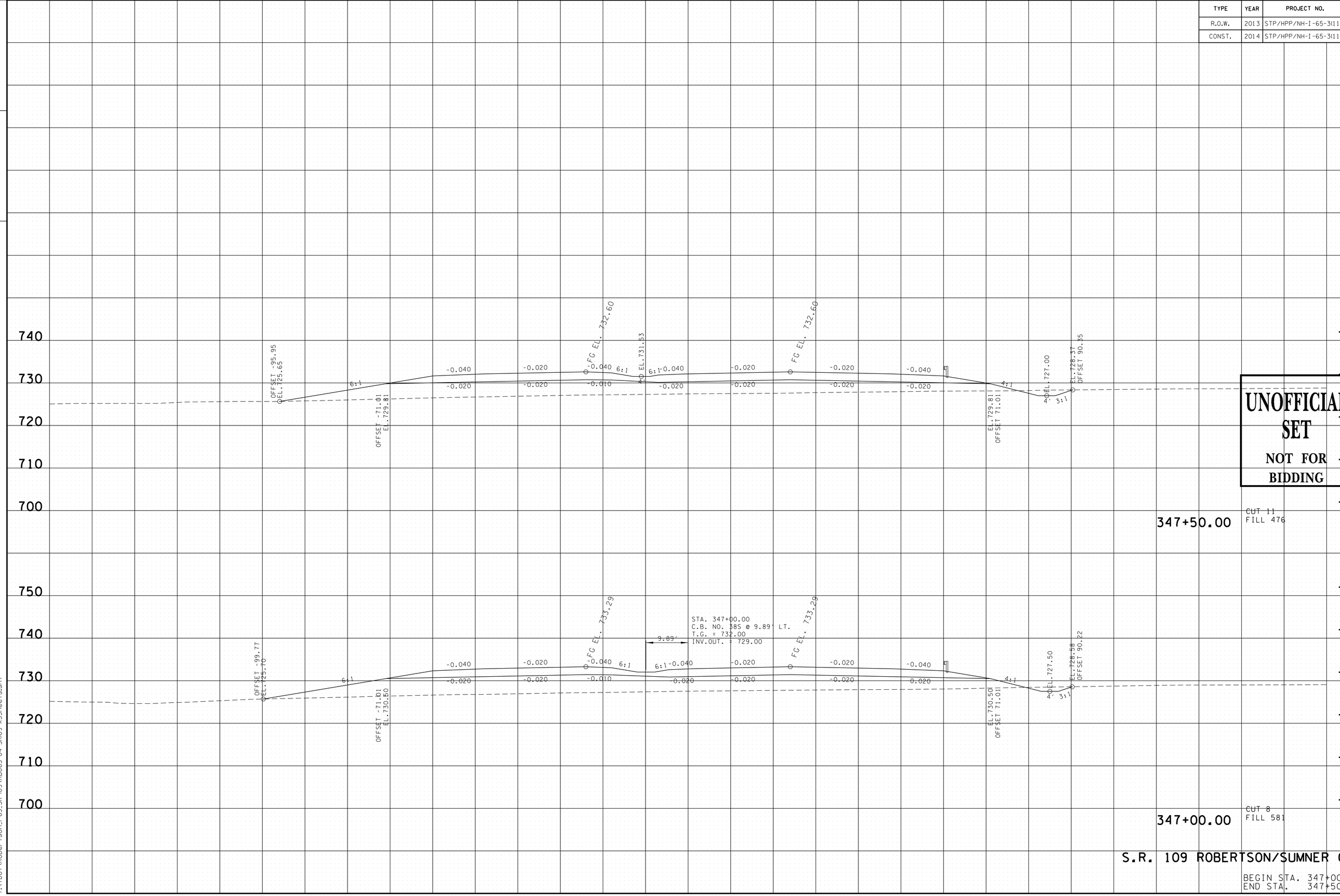
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	179
CONST.	2014	STP/HPP/NH-I-65-3(113)	233

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 347+00.00
END STA. 347+50.00

9/23/2014 8:29:17 PM
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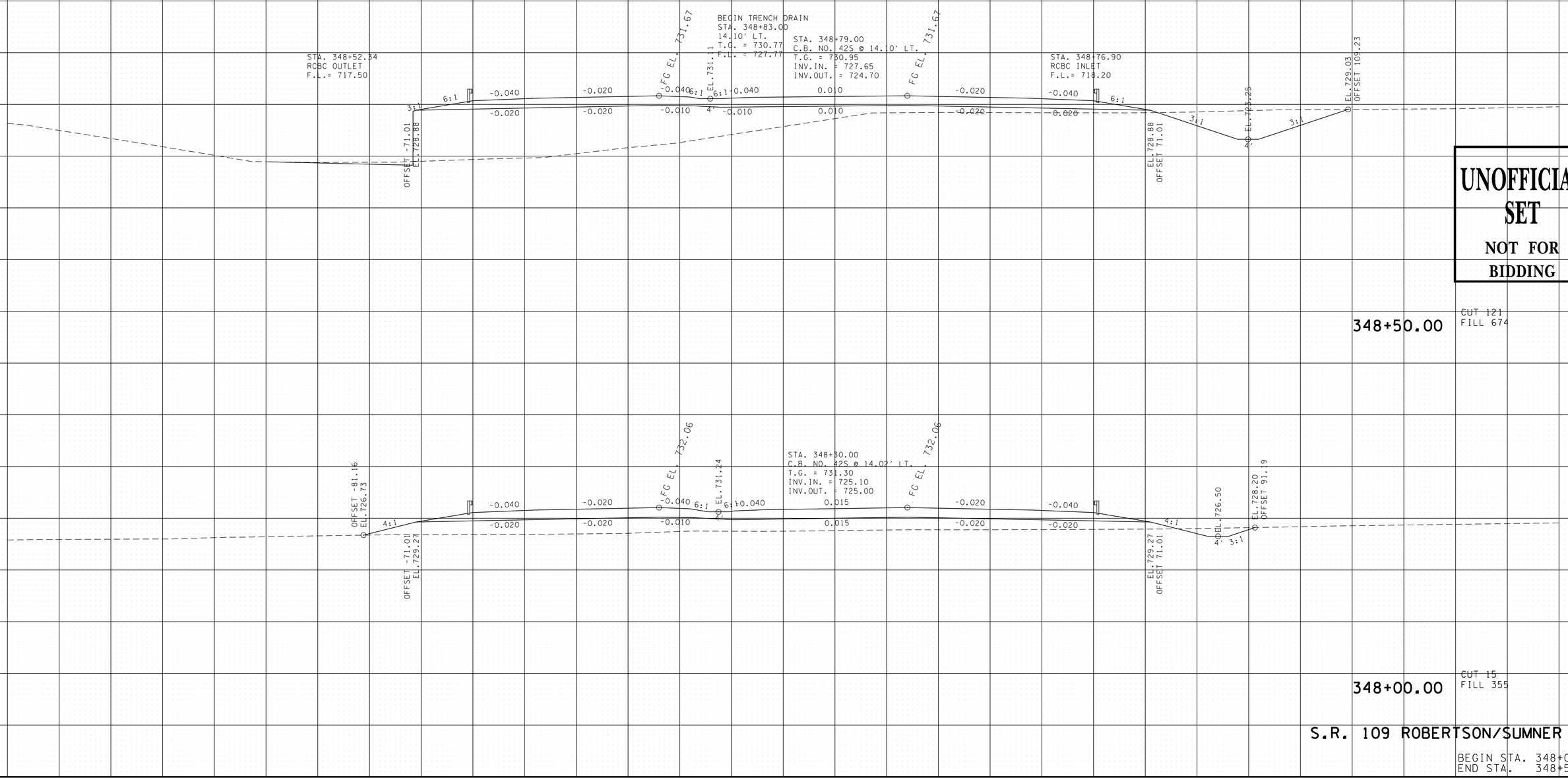
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	180
CONST.	2014	STP/HPP/NH-I-65-3(113)	234

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 348+00.00
END STA. 348+50.00

9/23/2014 8:29:20 PM
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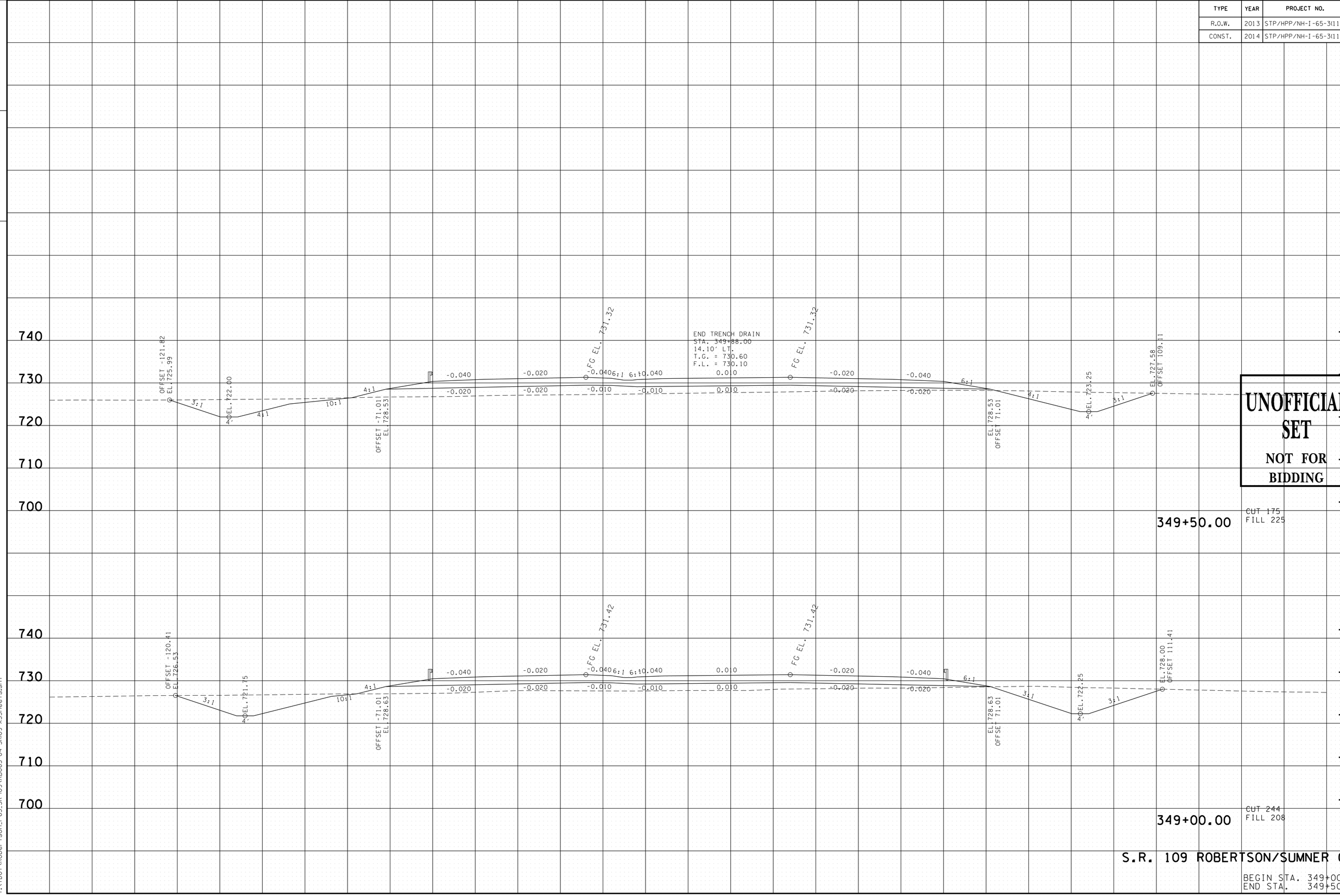
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	181
CONST.	2014	STP/HPP/NH-I-65-3(113)	235

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 175
FILL 225

349+50.00

CUT 244
FILL 208

349+00.00

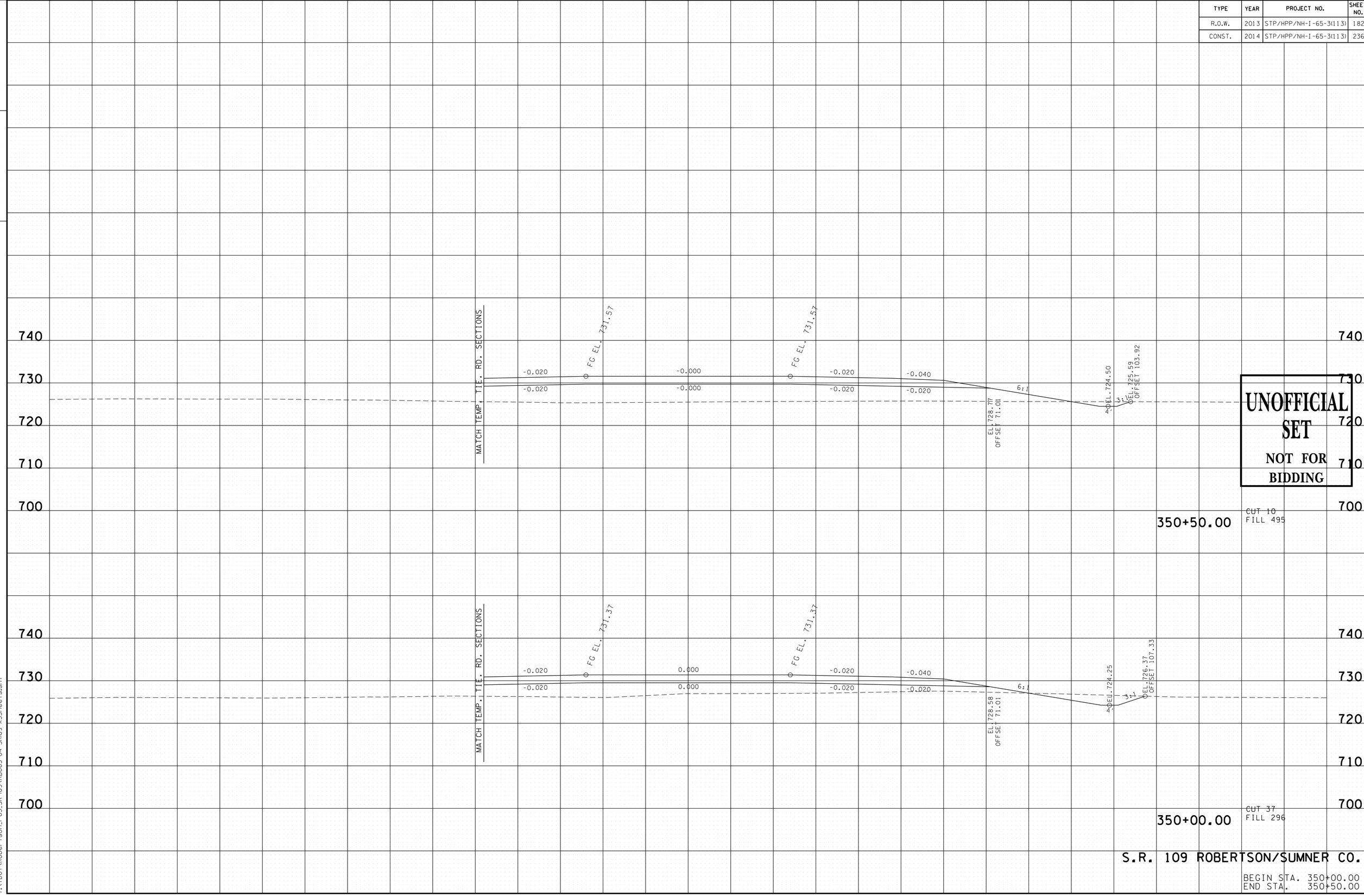
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 349+00.00
END STA. 349+50.00

9/23/2014 8:29:23 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	182
CONST.	2014	STP/HPP/NH-I-65-3(113)	236

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

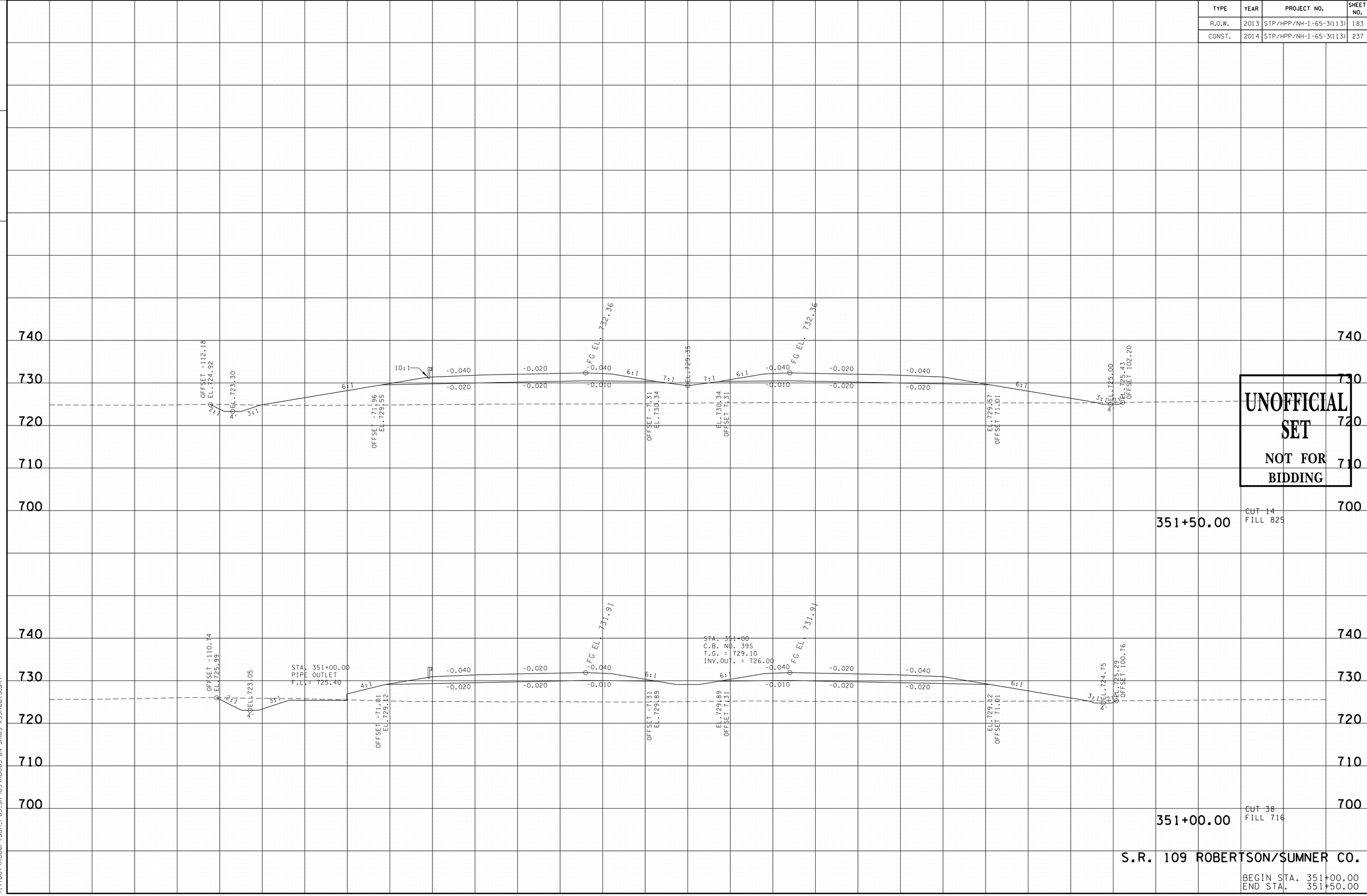
BEGIN STA. 350+00.00
END STA. 350+50.00

9/23/2014 8:29:27 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	183
CONST.	2014	STP/HPP/NH-I-65-3(113)	237

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

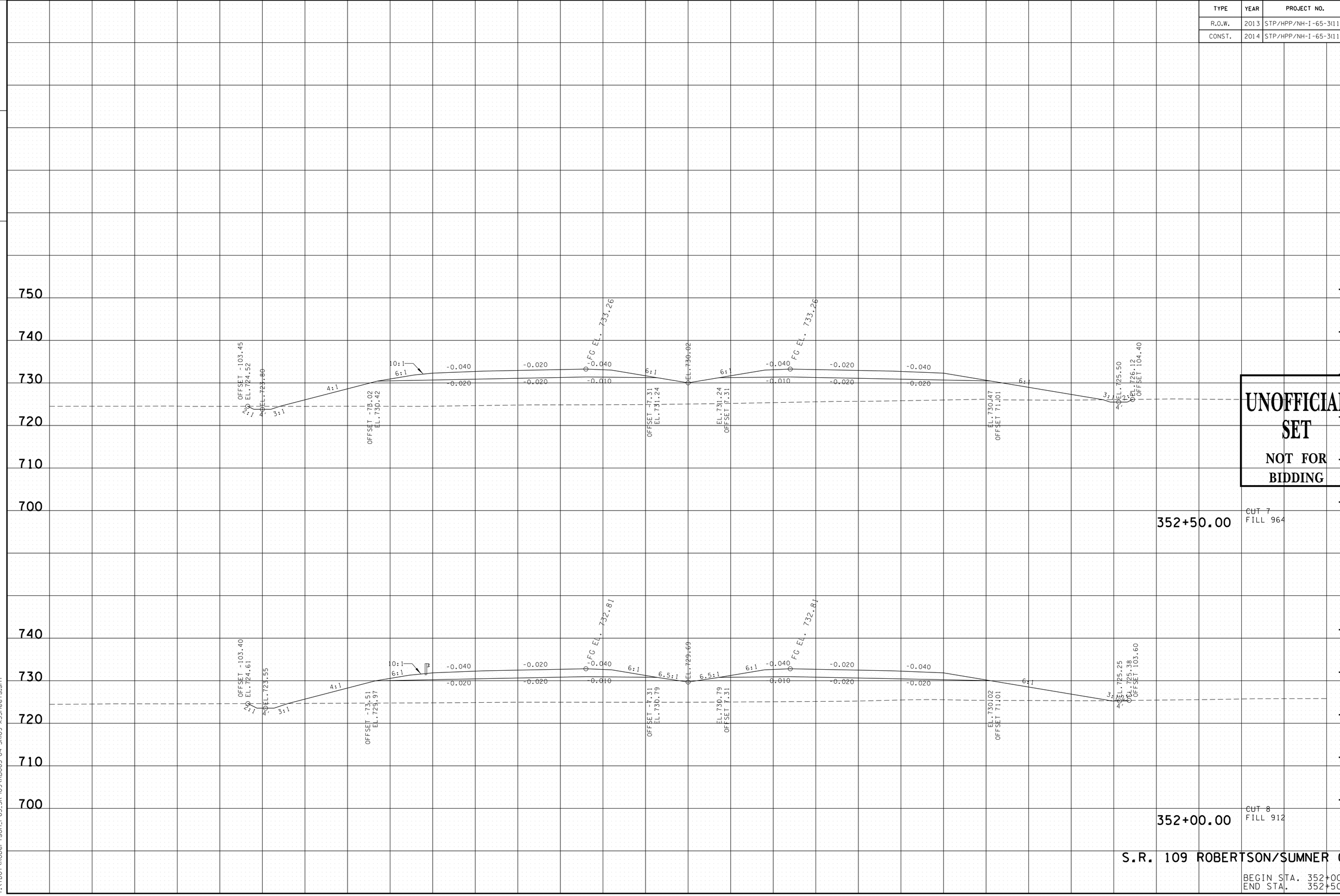
BEGIN STA. 351+00.00
END STA. 351+50.00

9/23/2014 8:29:30 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	184
CONST.	2014	STP/HPP/NH-I-65-3(113)	238

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

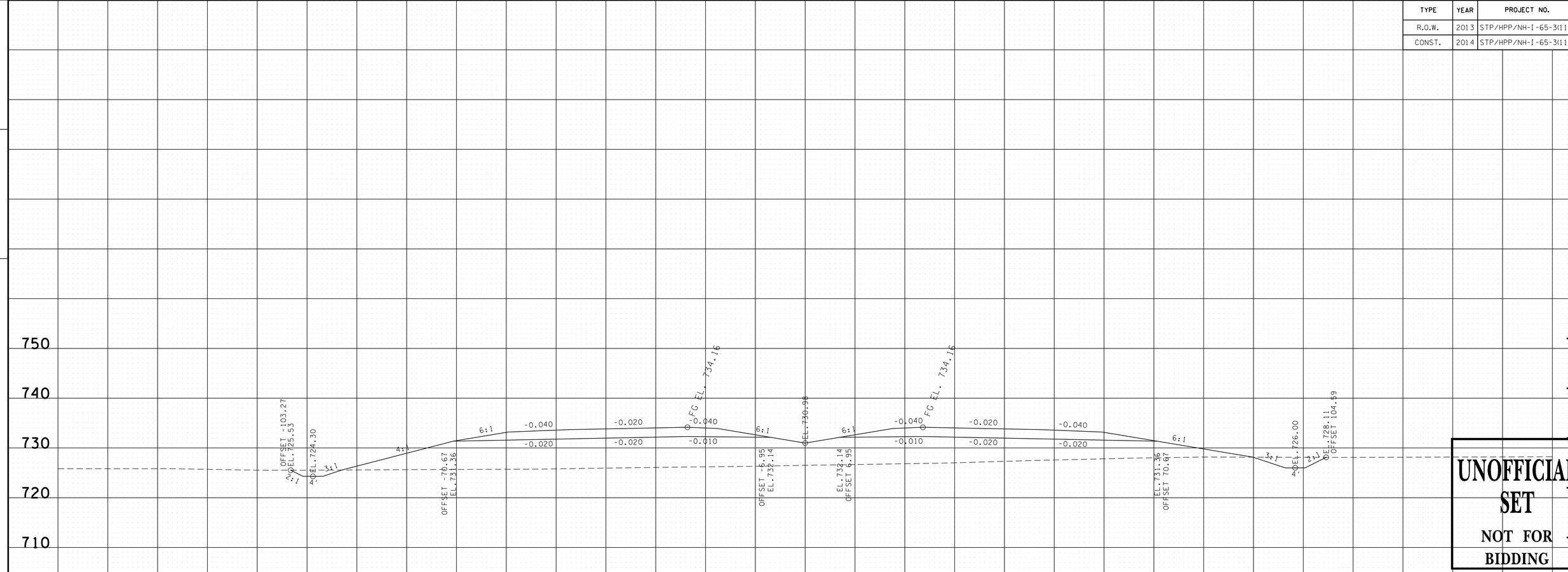
BEGIN STA. 352+00.00
END STA. 352+50.00

9/23/2014 8:29:33 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	185
CONST.	2014	STP/HPP/NH-I-65-3(113)	239

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 353+00.00
END STA. 353+50.00

9/23/2014 8:29:37 PM
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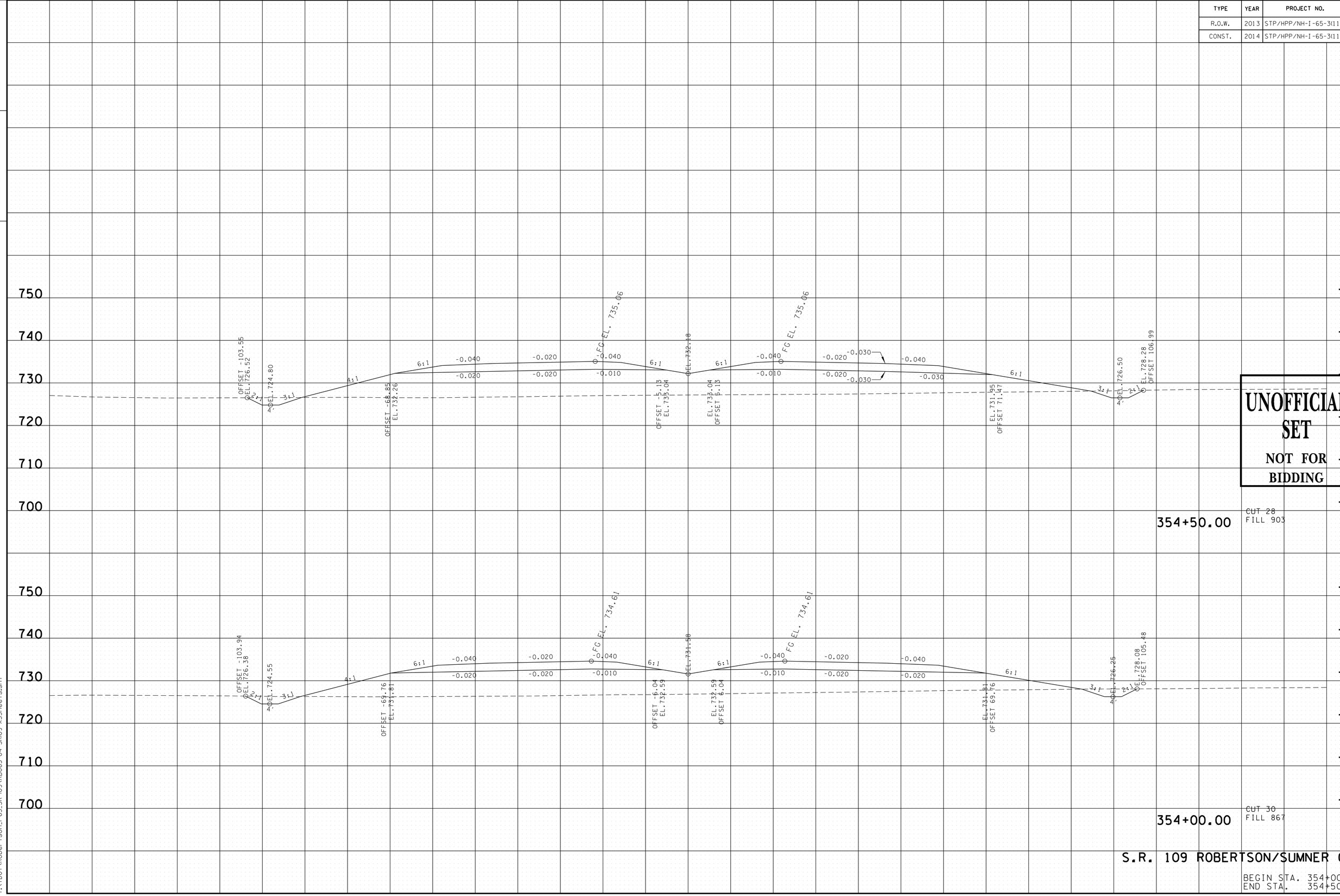
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	186
CONST.	2014	STP/HPP/NH-I-65-3(113)	240

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 354+00.00
END STA. 354+50.00

9/23/2014 8:29:40 PM
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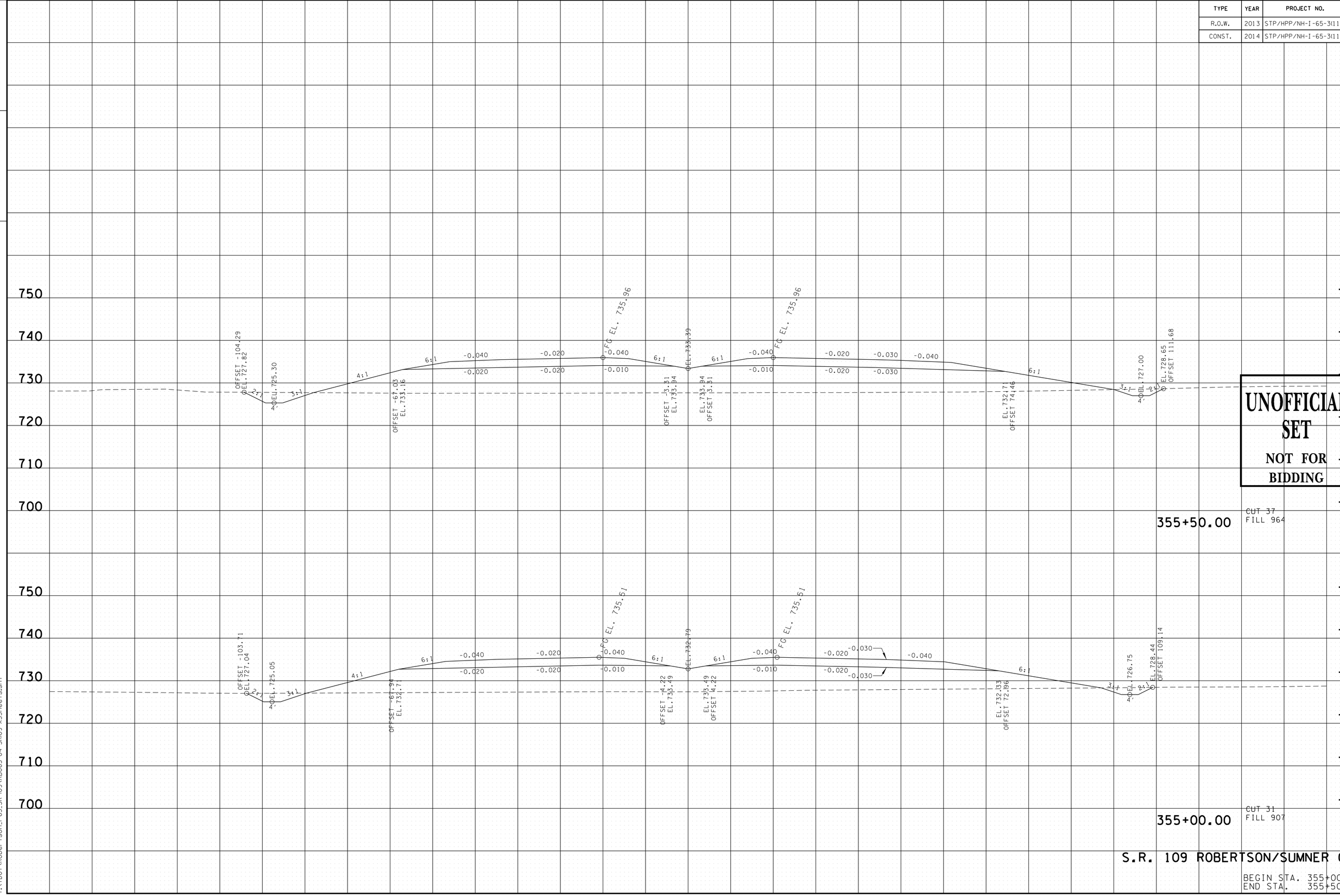
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	187
CONST.	2014	STP/HPP/NH-I-65-3(113)	241

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

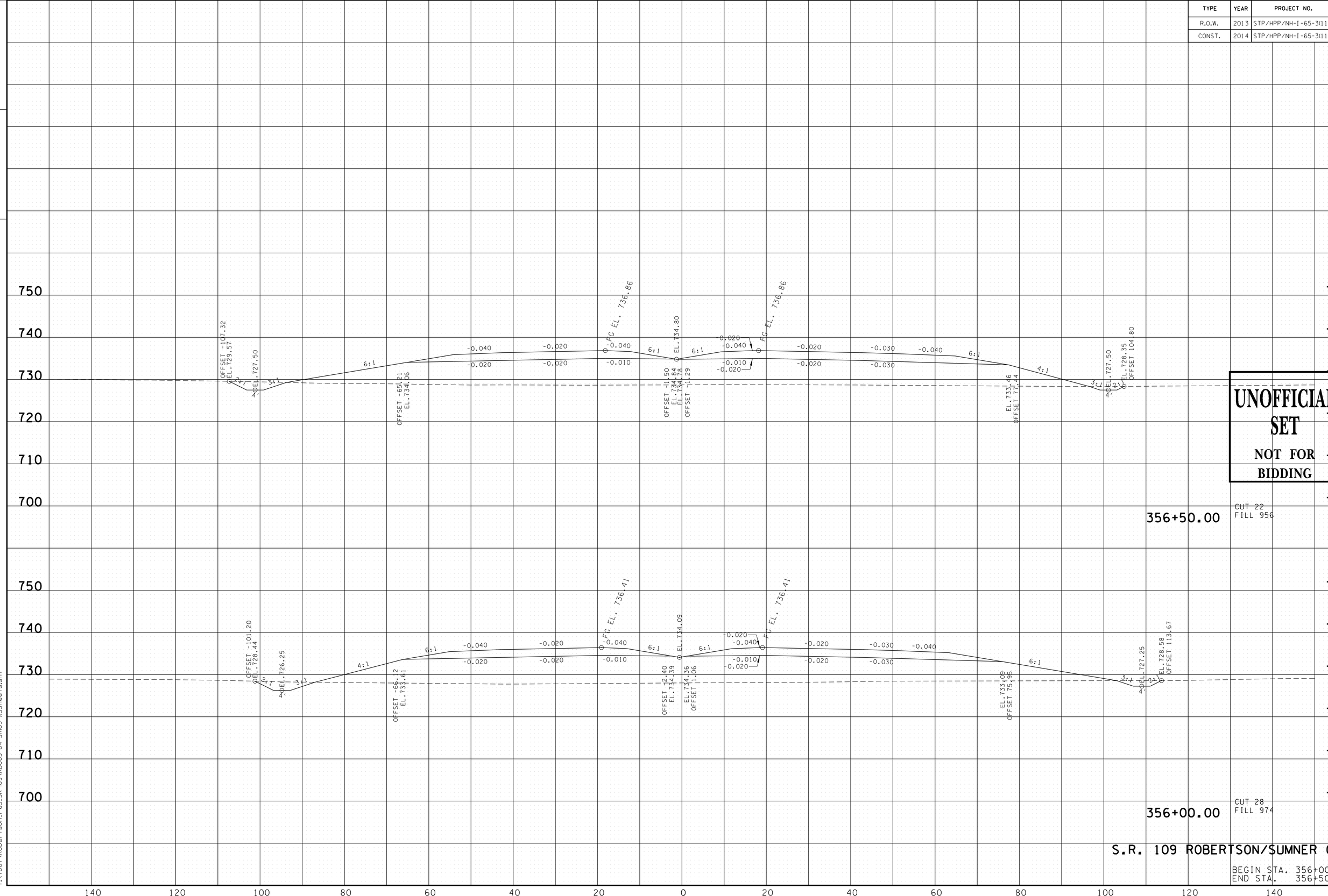
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 355+00.00
END STA. 355+50.00

9/23/2014 8:29:43 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	188
CONST.	2014	STP/HPP/NH-I-65-3(113)	242

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

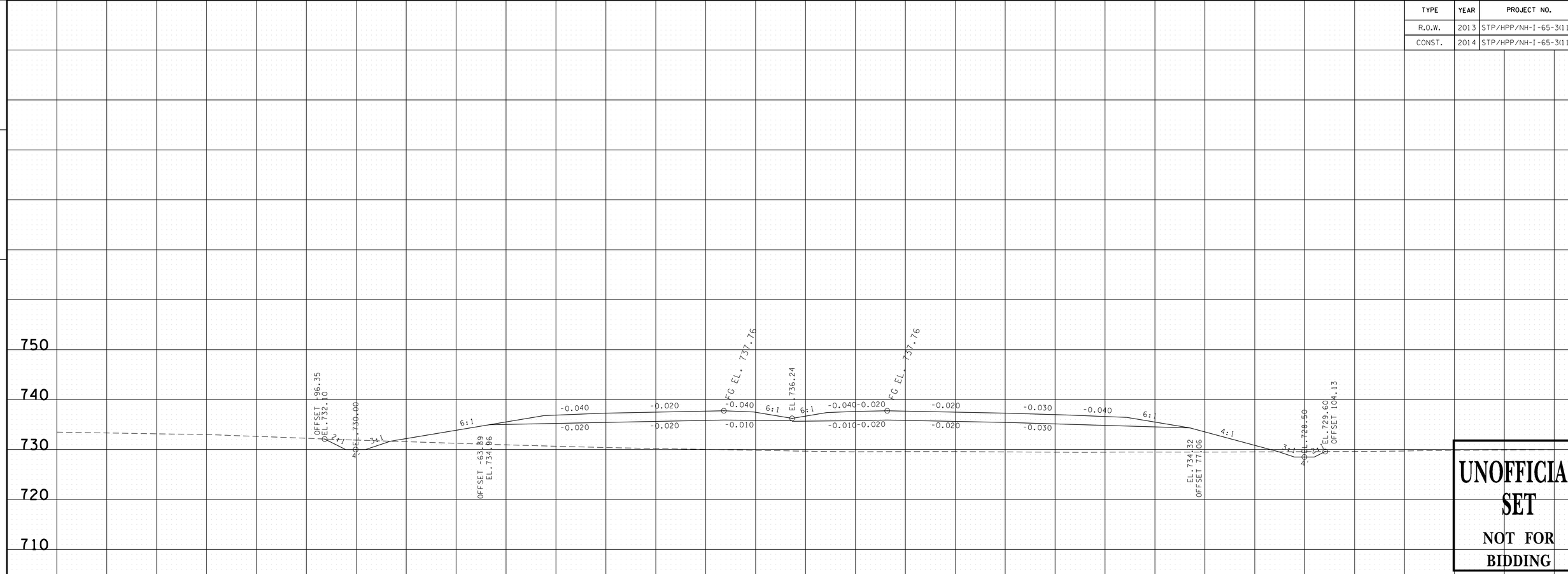
BEGIN STA. 356+00.00
END STA. 356+50.00

9/23/2014 8:29:47 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	189
CONST.	2014	STP/HPP/NH-I-65-3(113)	243

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 23
FILL 860

357+50.00

CUT 25
FILL 923

357+00.00

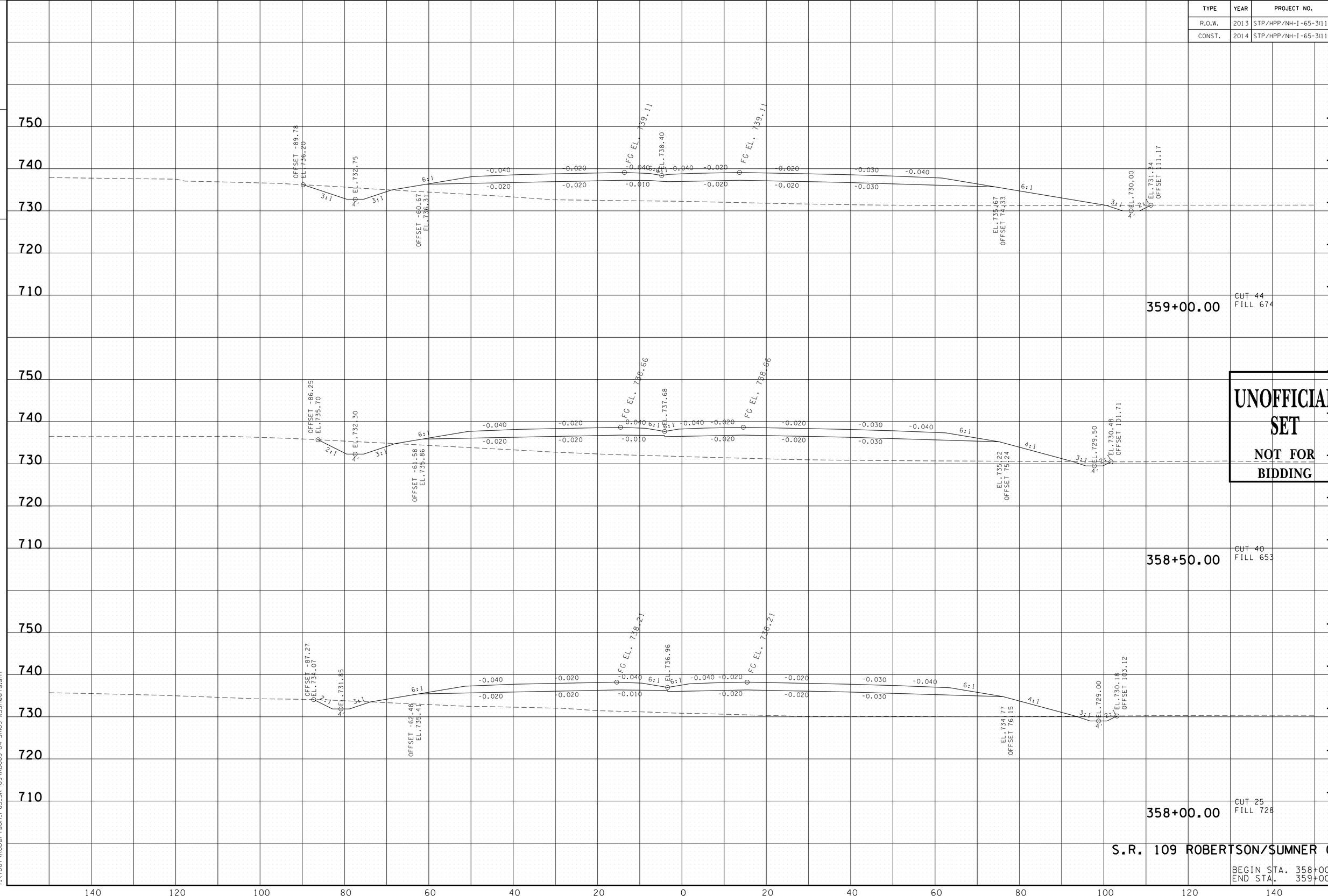
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 357+00.00
END STA. 357+50.00

9/23/2014 8:29:50 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	190
CONST.	2014	STP/HPP/NH-I-65-3(113)	244

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

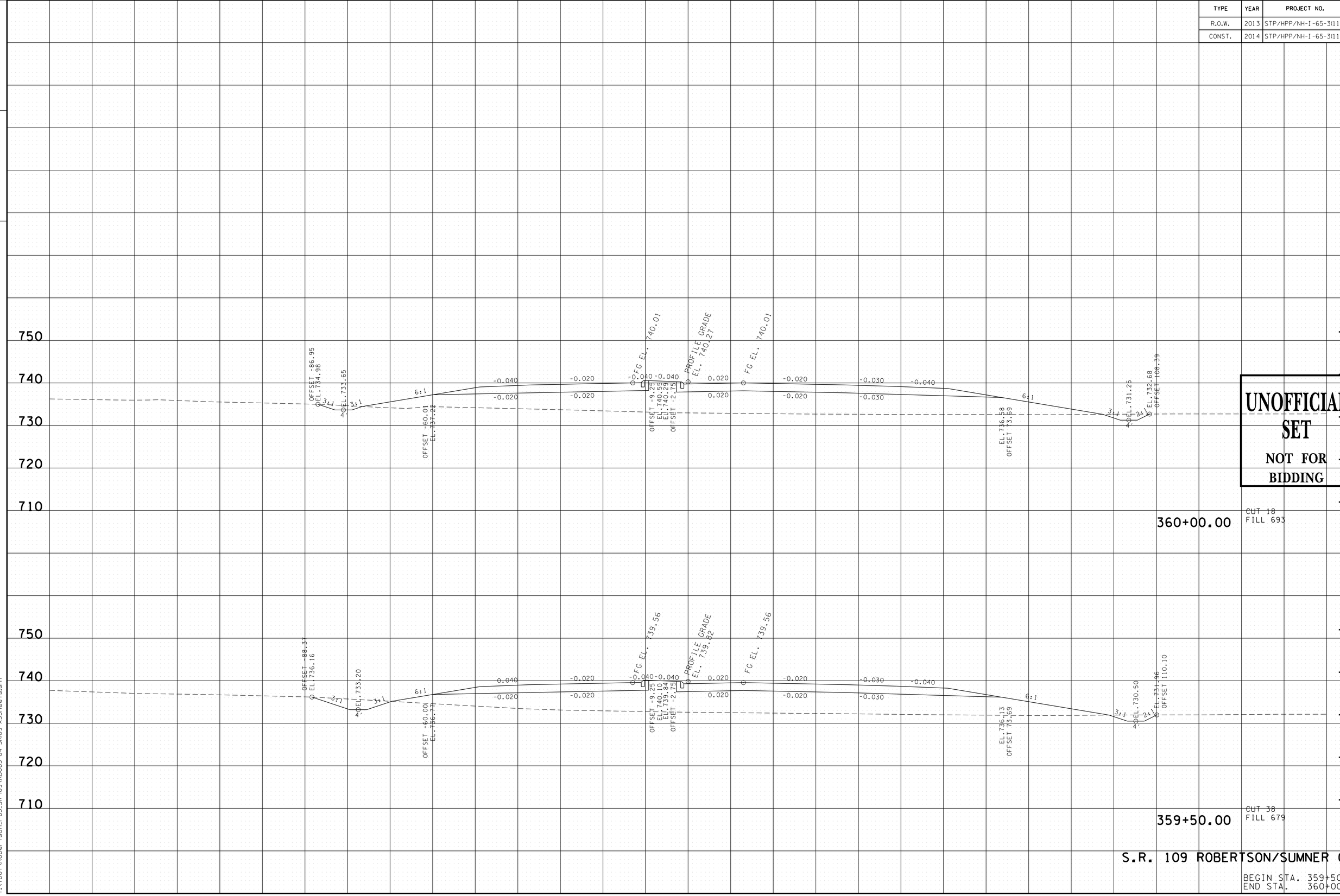
BEGIN STA. 358+00.00
END STA. 359+00.00

9/23/2014 8:29:53 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	191
CONST.	2014	STP/HPP/NH-I-65-3(113)	245



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 359+50.00
END STA. 360+00.00

9/23/2014 8:29:57 PM
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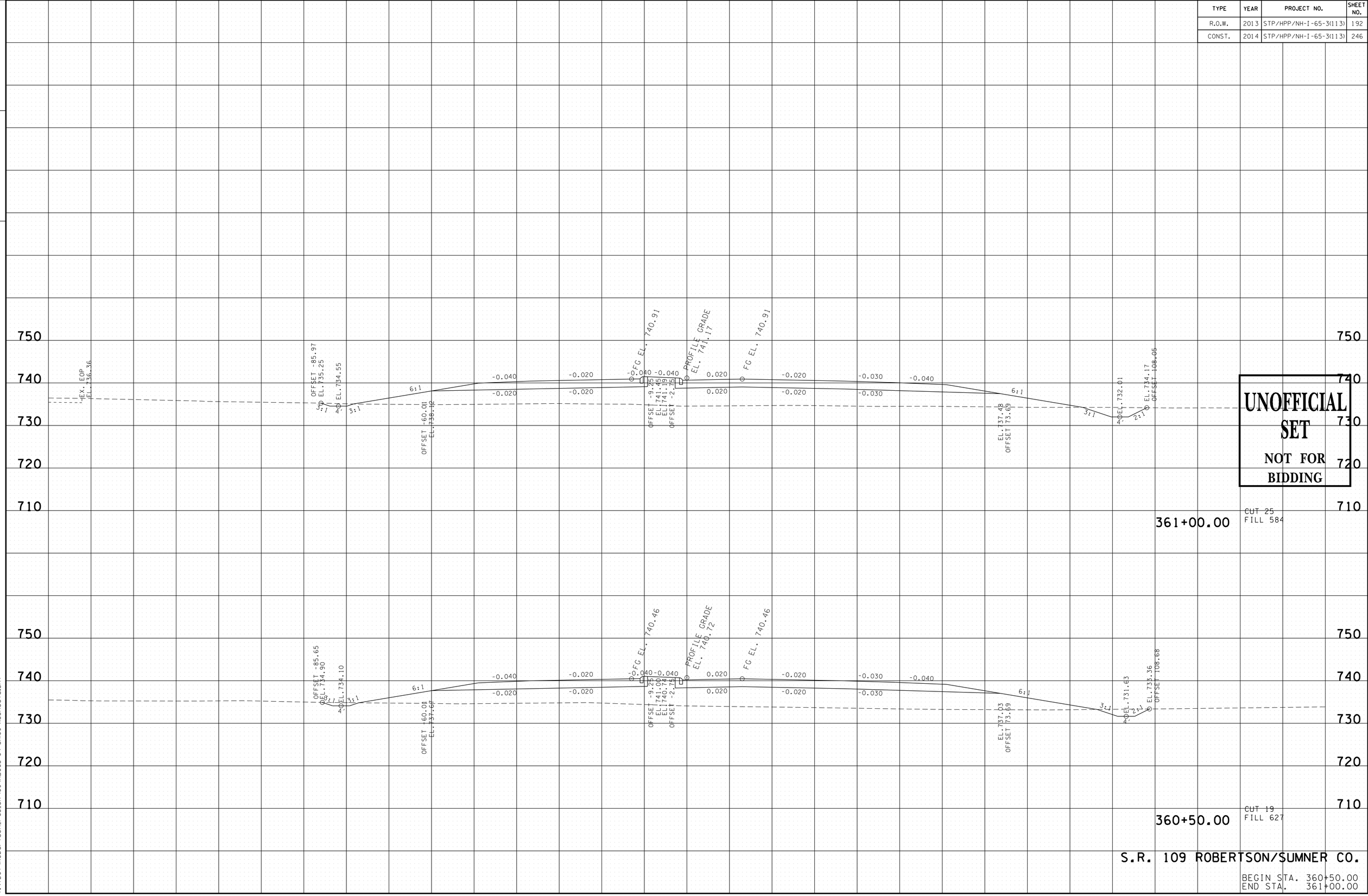
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	192
CONST.	2014	STP/HPP/NH-I-65-3(113)	246

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	193
CONST.	2014	STP/HPP/NH-I-65-3(113)	247

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

STA. 362+97.00
C.B. NO. 26S @ 9' RT.
T.G. = 742.40
INV.IN. = 737.65
INV.OUT. = 737.30

STA. 362+94.29
PIPE INLET
F.L.= 736.00

MATCH S.R. 41 LT. SECTIONS

MATCH S.R. 41 RT. SECTIONS

FG EL. 742.52

-0.007 -0.0065

-0.007 -0.0065

362+50.00

CUT 103
FILL 0

FG EL. 742.07

-0.007 -0.009

-0.007 -0.009

EX. EOP EL.739.34

EX. EOP EL.739.89

UNOFFICIAL SET
NOT FOR BIDDING

362+00.00

CUT 0
FILL 167

EX. EOP EL.737.13

EX. EOP EL.737.23

OFFSET -91.08 EL 736.04

EL. 734.80

20:1

6:1

3:1

2:1

-0.040 -0.019 -0.040 -0.040 0.020 -0.020 -0.030 -0.040

-0.020 -0.019 0.020 -0.020 -0.030

OFFSET -60.01 EL 738.57

FG EL. 741.36

OFFSET -9.25 EL 741.90

EL 741.64

OFFSET -2.75

PROFILE GRADE EL. 741.62

FG EL. 741.36

EL.737.93 OFFSET 73.69

EL. 732.39

EL. 734.47 OFFSET 107.67

361+50.00

CUT 30
FILL 583

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 361+50.00
END STA. 362+50.00

750 740 730 720 710

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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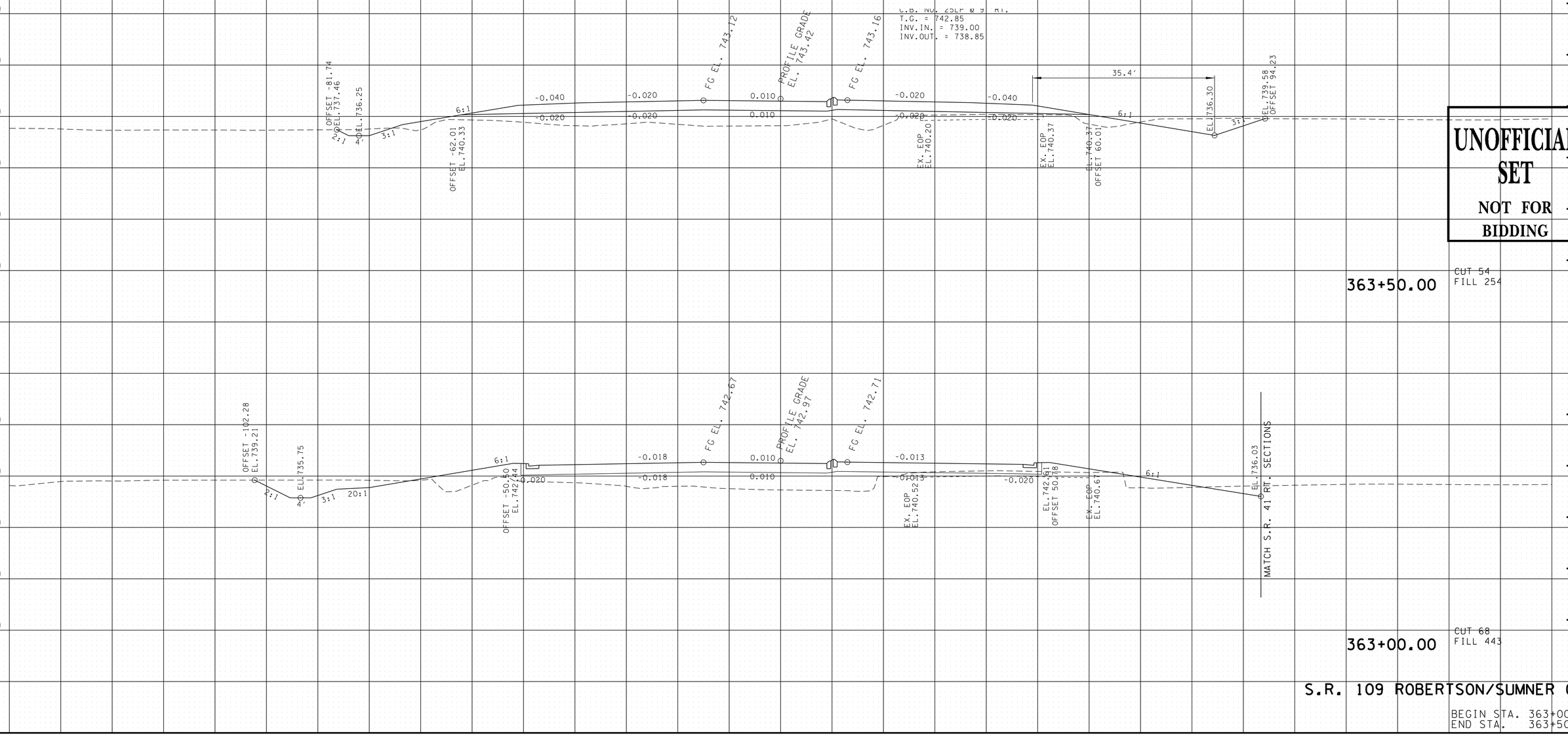
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	194
CONST.	2014	STP/HPP/NH-I-65-3(113)	248

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

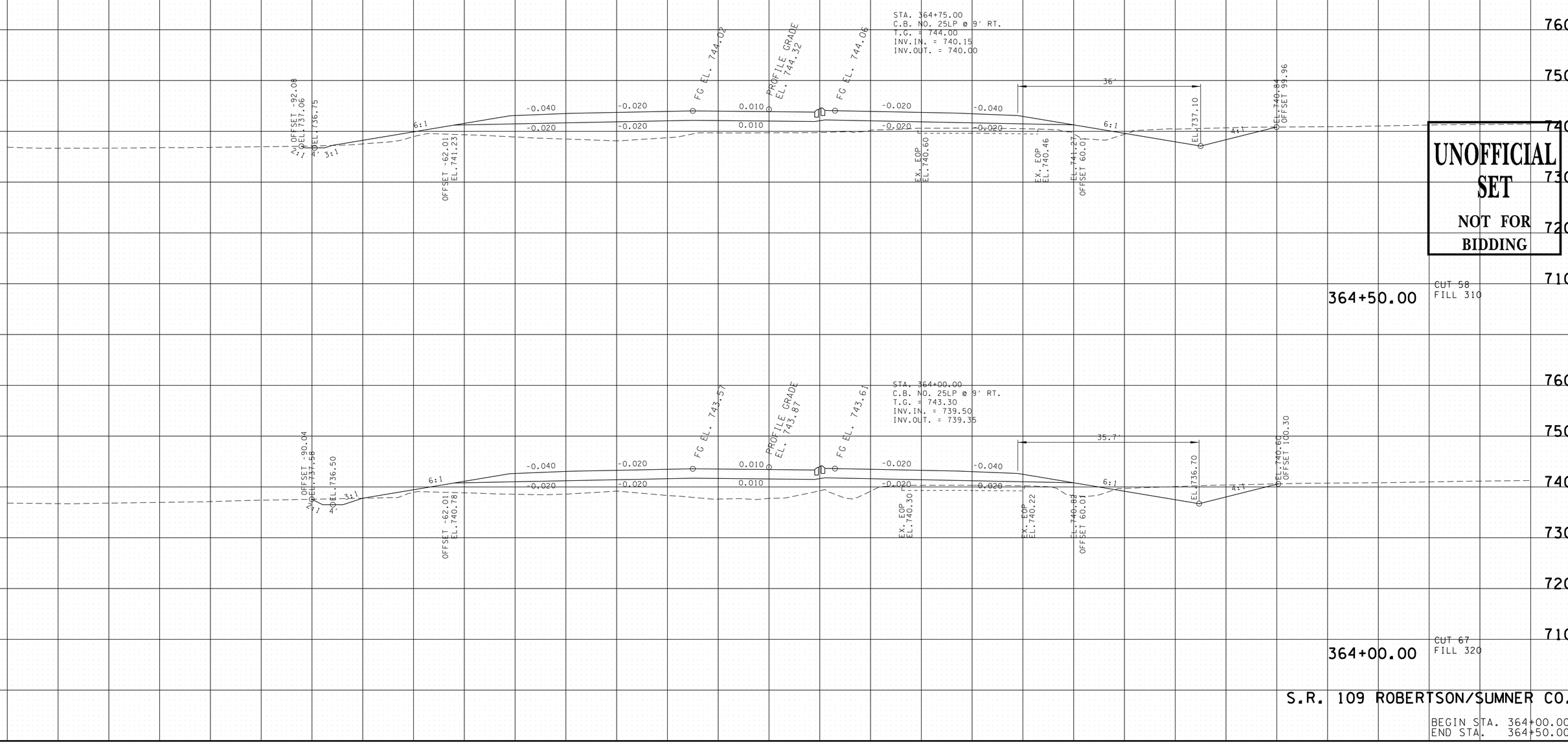
BEGIN STA. 363+00.00
END STA. 363+50.00

9/23/2014 8:30:07 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	195
CONST.	2014	STP/HPP/NH-I-65-3(113)	249

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

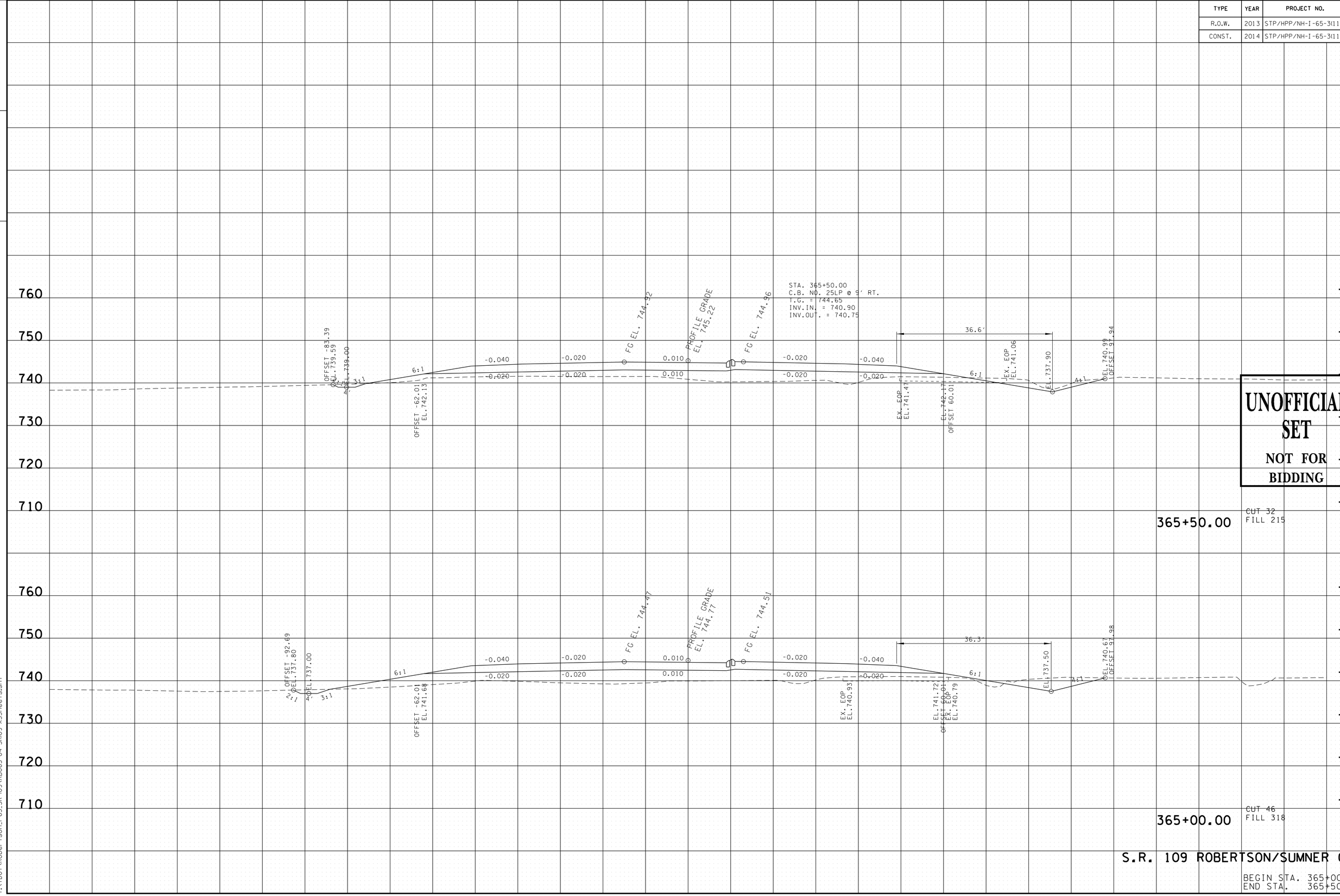
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 364+00.00
END STA. 364+50.00

9/23/2014 8:30:10 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	196
CONST.	2014	STP/HPP/NH-I-65-3(113)	250

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 32
FILL 215
365+50.00

CUT 46
FILL 318
365+00.00

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 365+00.00
END STA. 365+50.00

9/23/2014 8:30:13 PM
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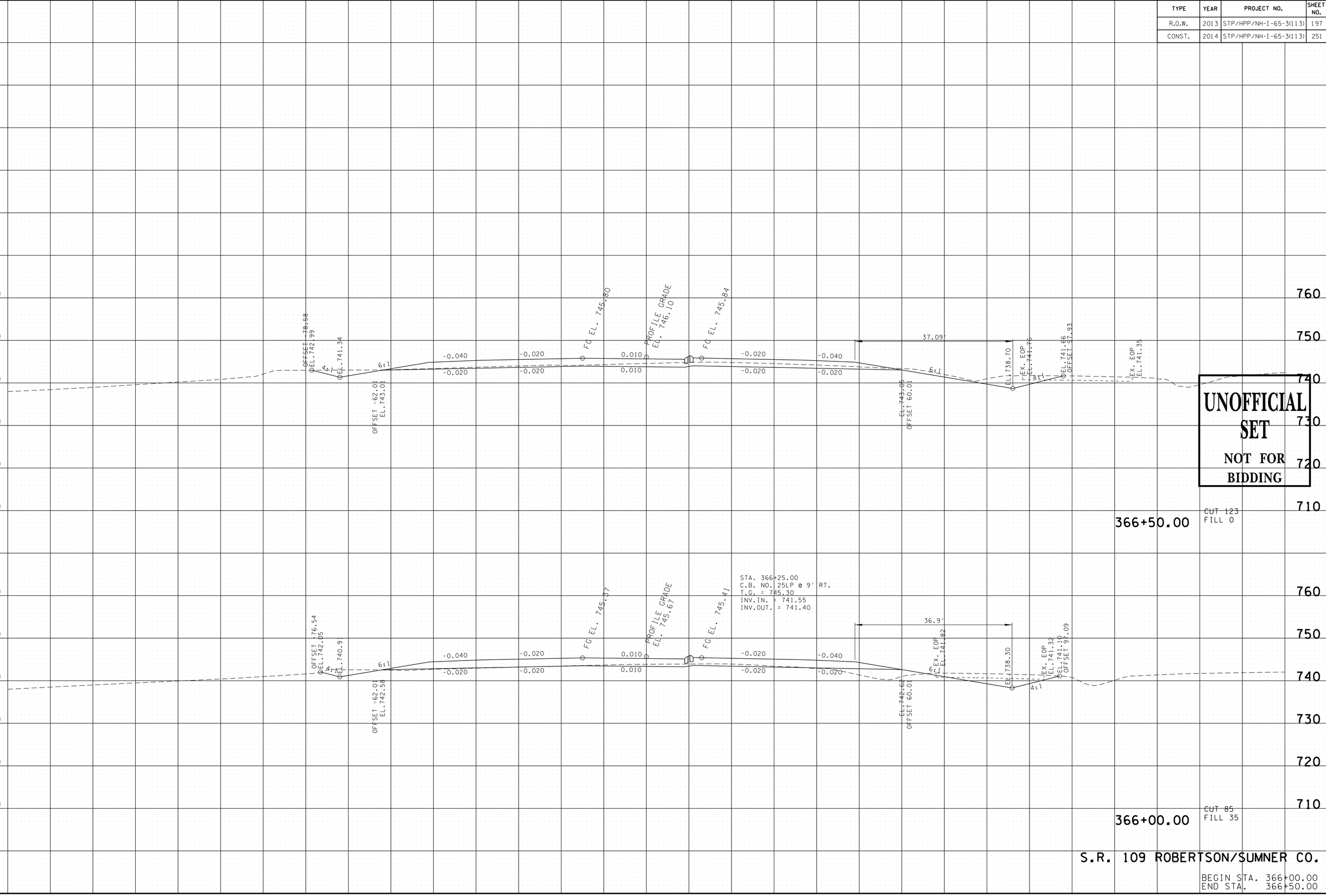
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	197
CONST.	2014	STP/HPP/NH-I-65-3(113)	251

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

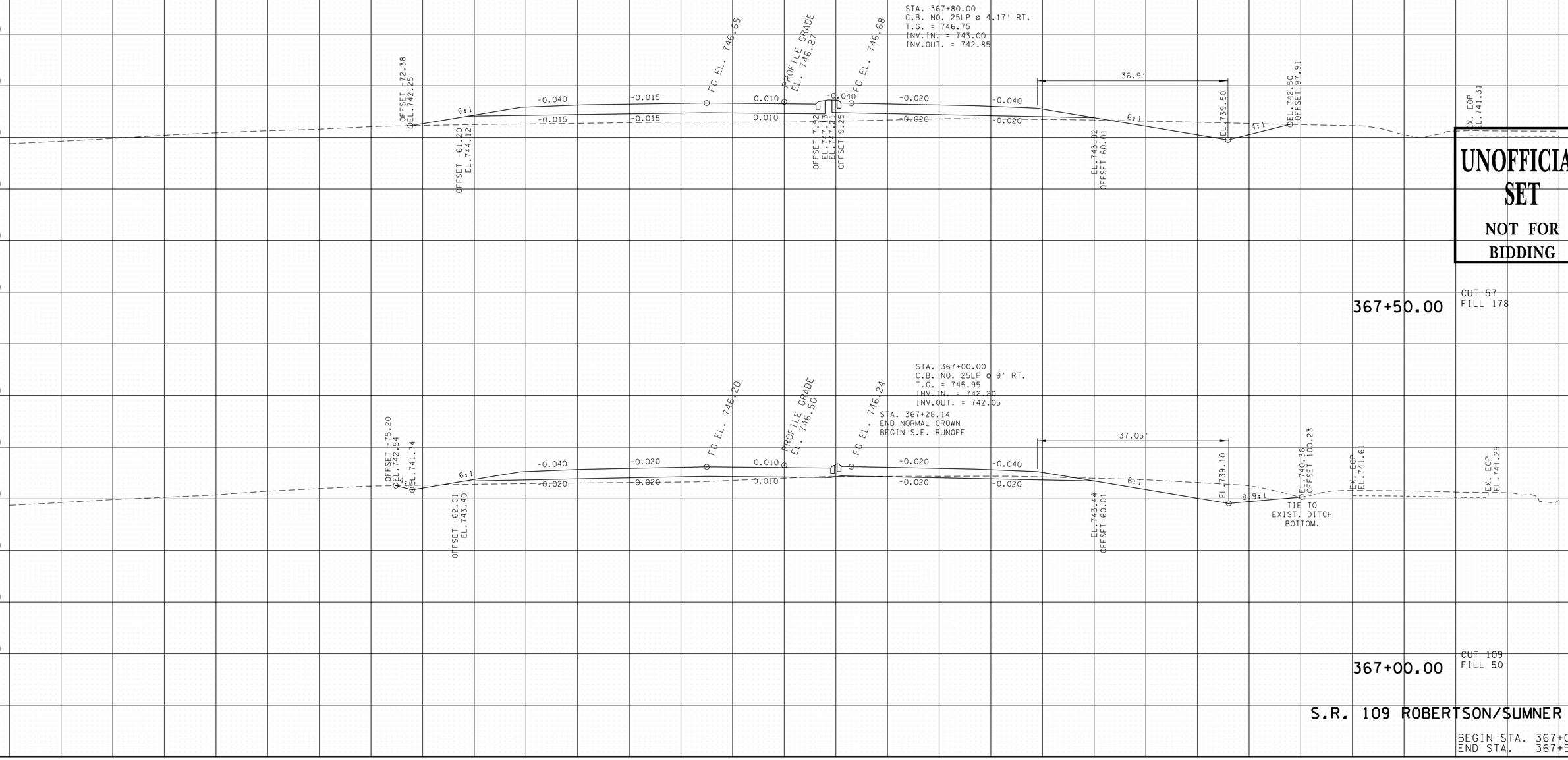
BEGIN STA. 366+00.00
END STA. 366+50.00

9/23/2014 8:30:17 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	198
CONST.	2014	STP/HPP/NH-I-65-3(113)	252

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



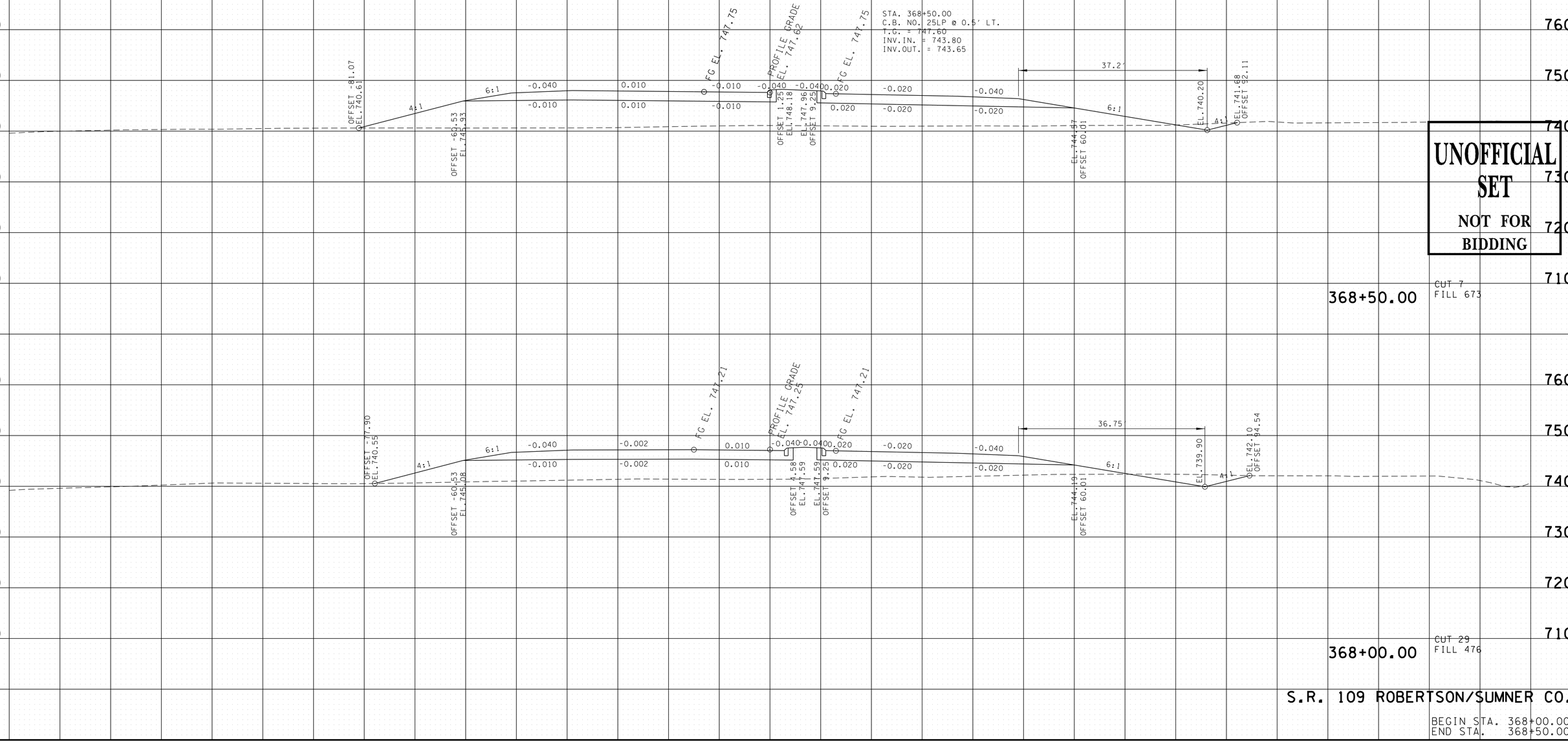
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 367+00.00
END STA. 367+50.00

9/23/2014 8:30:20 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	199
CONST.	2014	STP/HPP/NH-I-65-3(113)	253

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

368+50.00
CUT 7
FILL 673

368+00.00
CUT 29
FILL 476

S.R. 109 ROBERTSON/SUMNER CO.

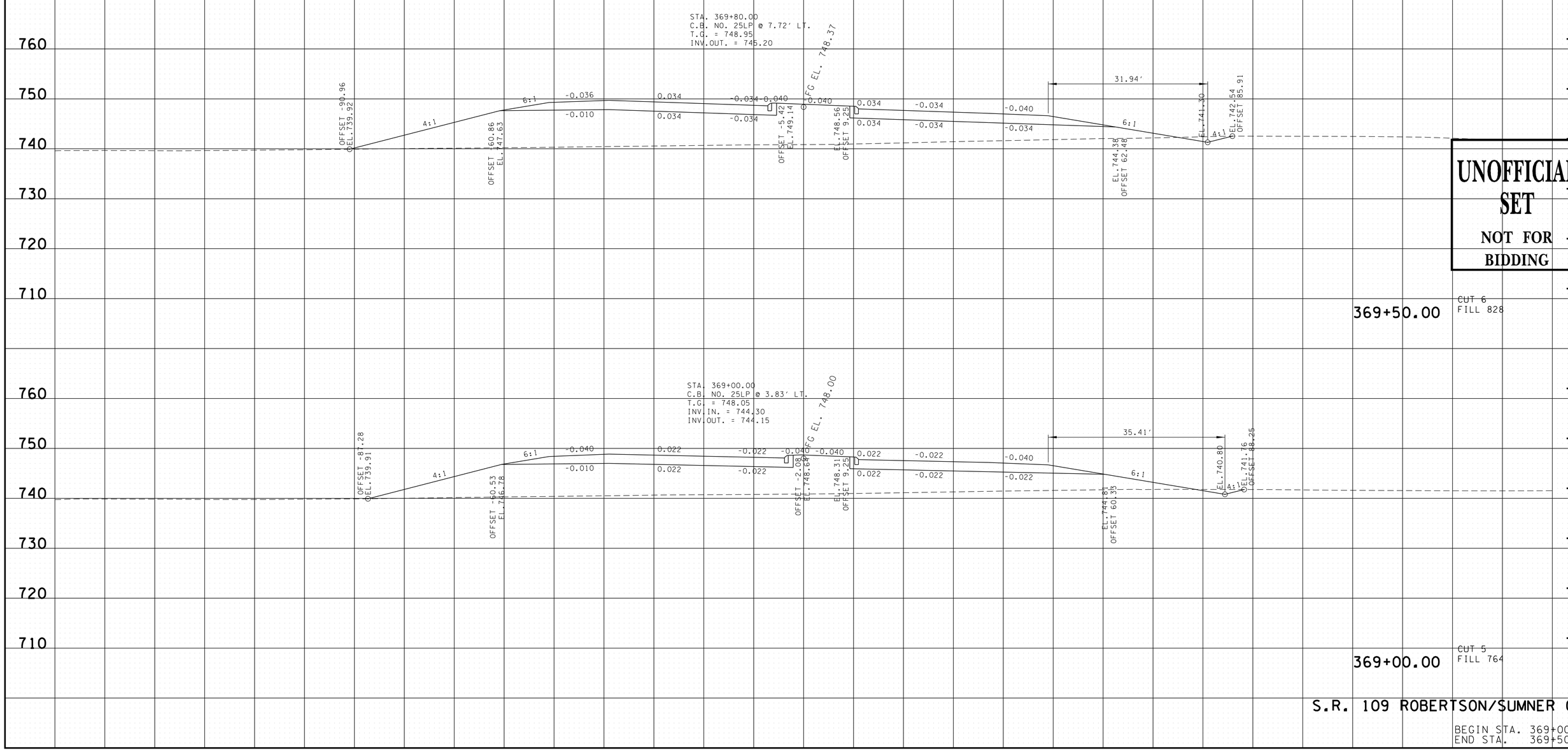
BEGIN STA. 368+00.00
END STA. 368+50.00

9/23/2014 8:30:23 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	200
CONST.	2014	STP/HPP/NH-I-65-3(113)	254

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

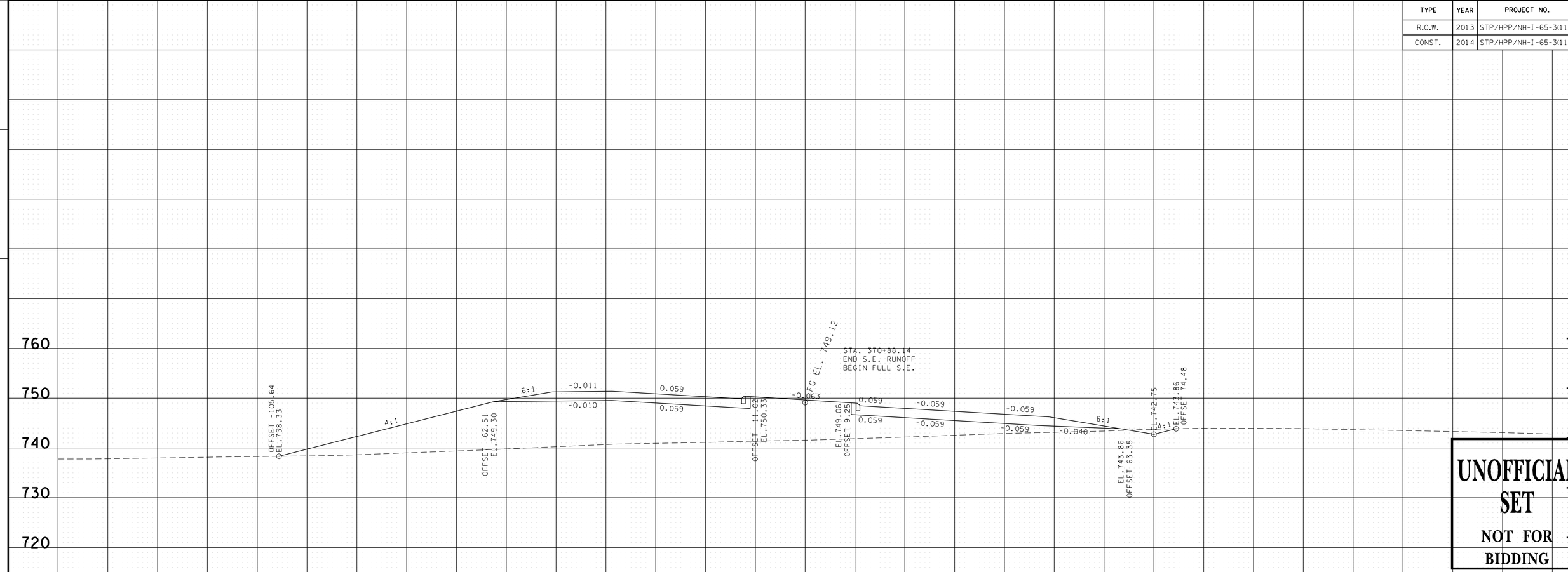
BEGIN STA. 369+00.00
END STA. 369+50.00

9/23/2014 8:30:26 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	201
CONST.	2014	STP/HPP/NH-I-65-3(113)	255

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

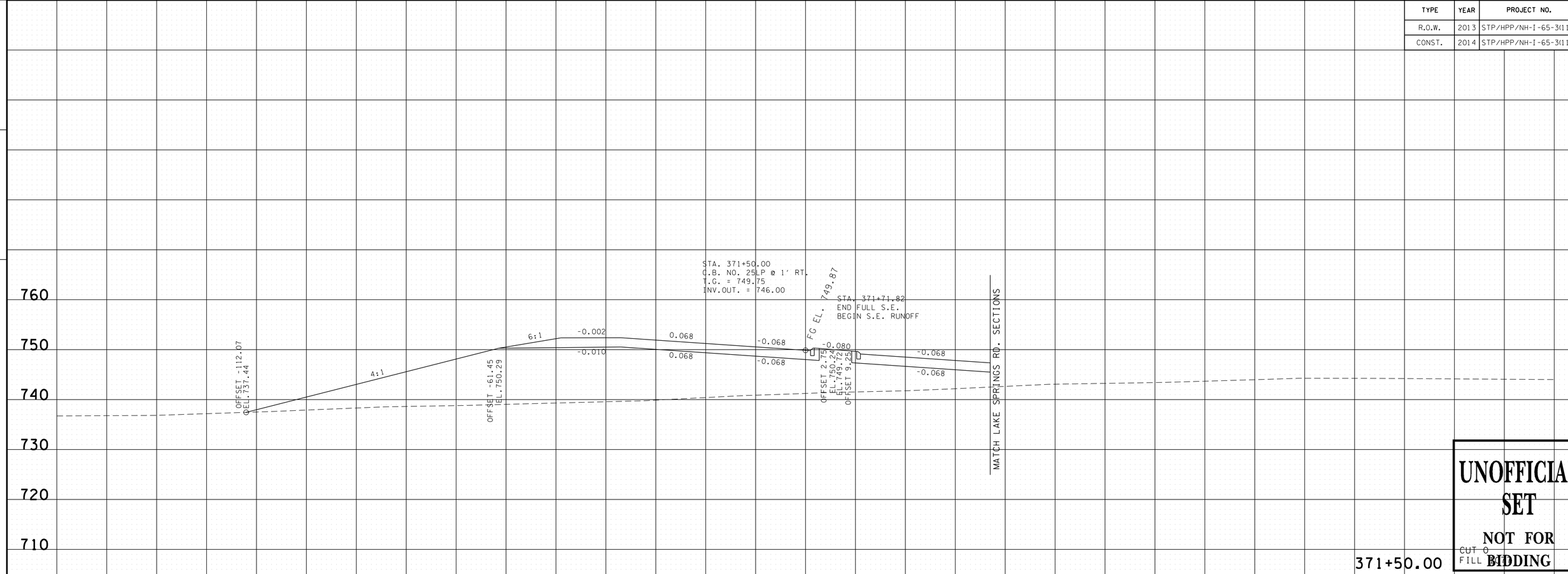
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 370+00.00
END STA. 370+50.00

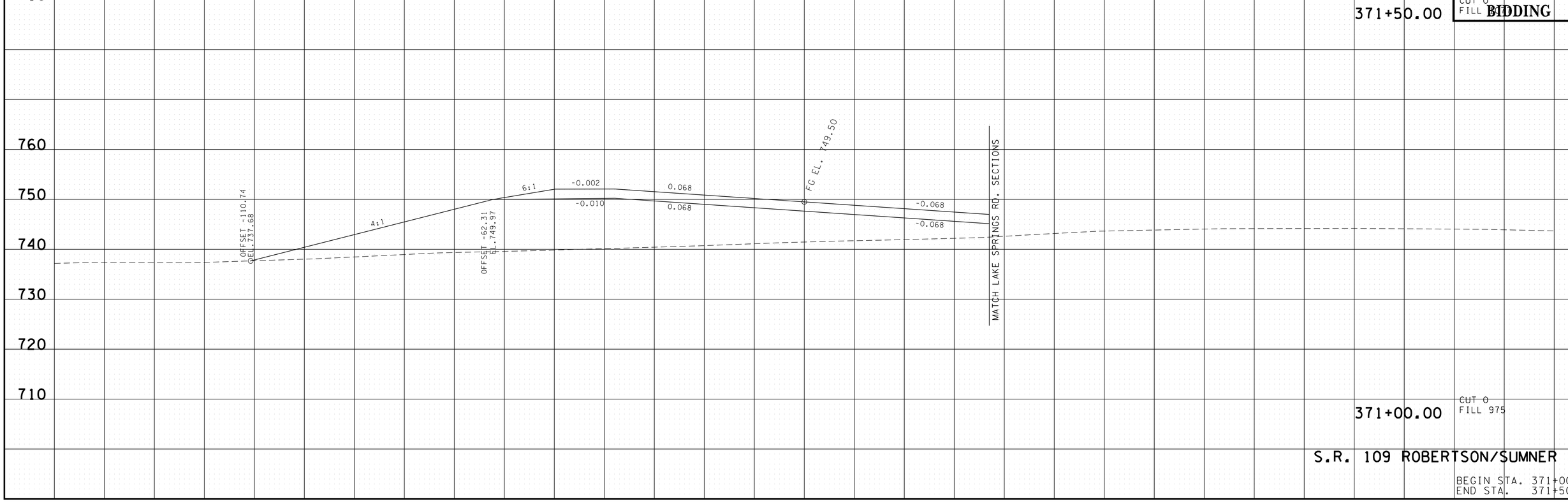
9/23/2014 8:30:30 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	202
CONST.	2014	STP/HPP/NH-I-65-3(113)	256

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



S.R. 109 ROBERTSON/SUMNER CO.

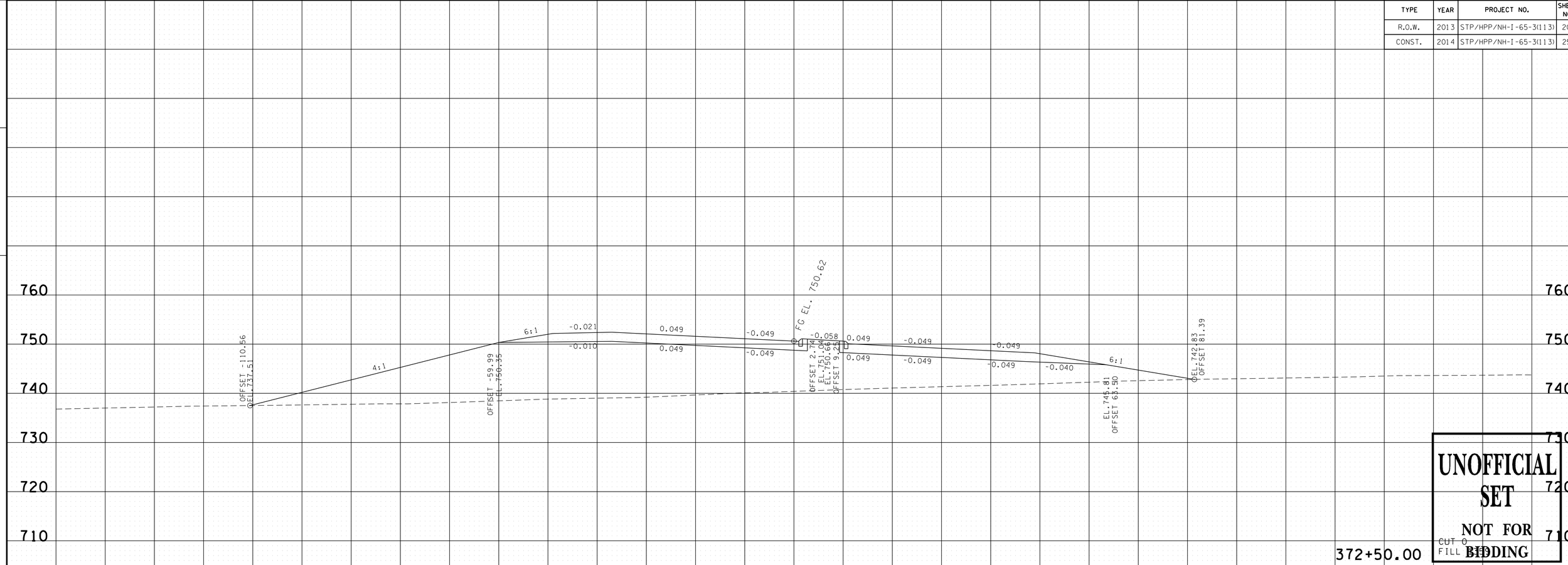
BEGIN STA. 371+00.00
END STA. 371+50.00

9/23/2014 8:30:33 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	203
CONST.	2014	STP/HPP/NH-I-65-3(113)	257



S.R. 109 ROBERTSON/SUMNER CO.

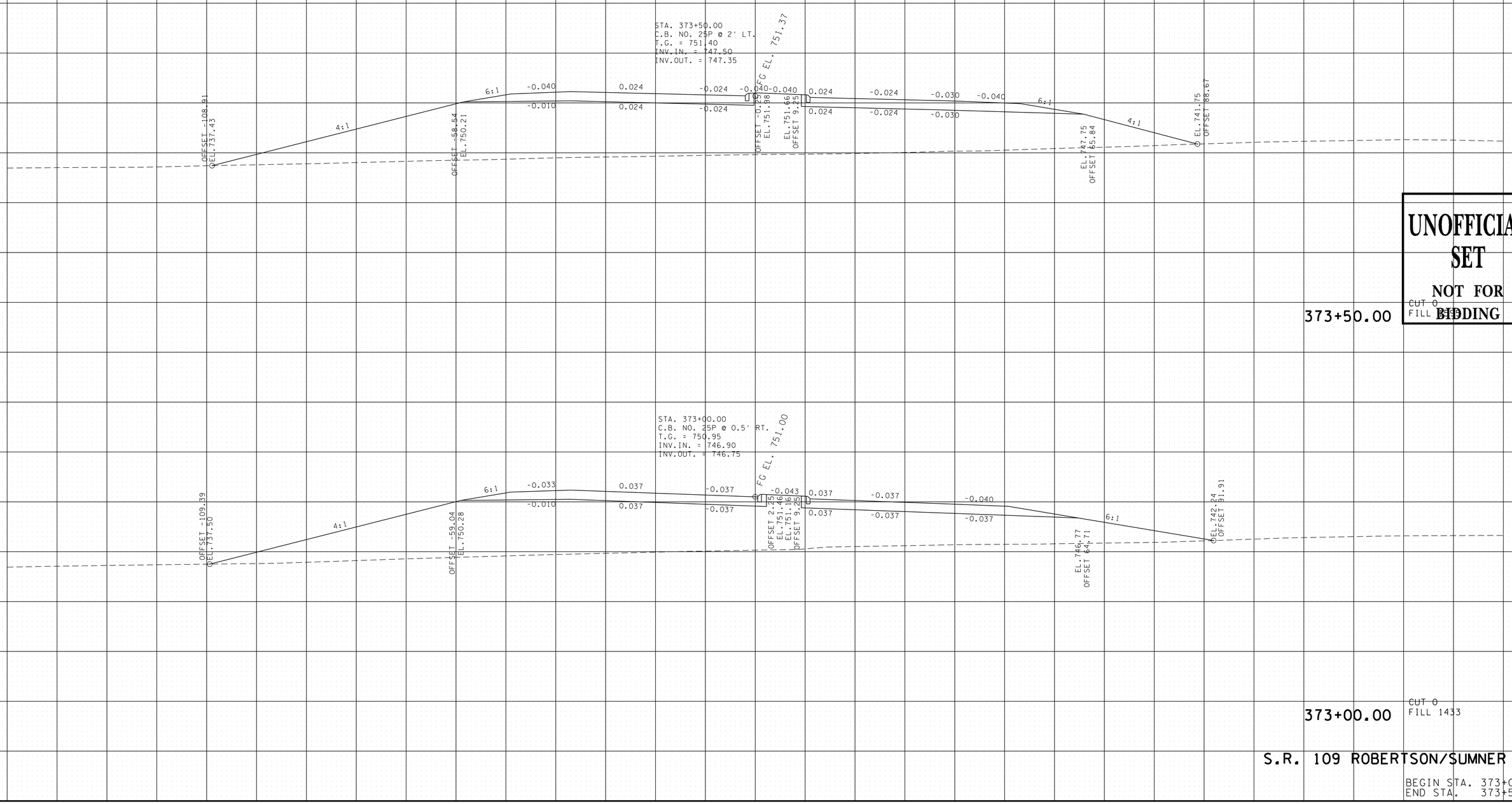
BEGIN STA. 372+00.00
END STA. 372+50.00

9/23/2014 8:30:36 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	204
CONST.	2014	STP/HPP/NH-I-65-3(113)	258

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

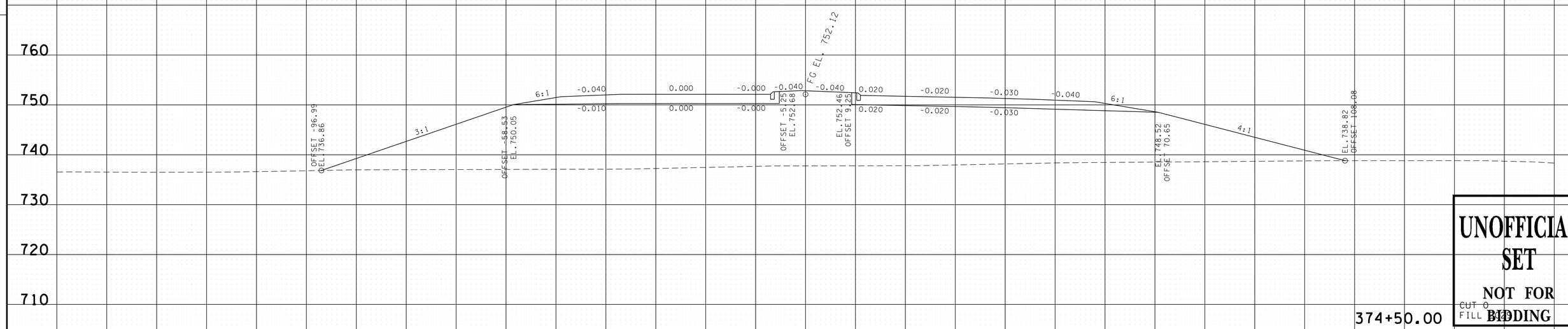
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 373+00.00
END STA. 373+50.00

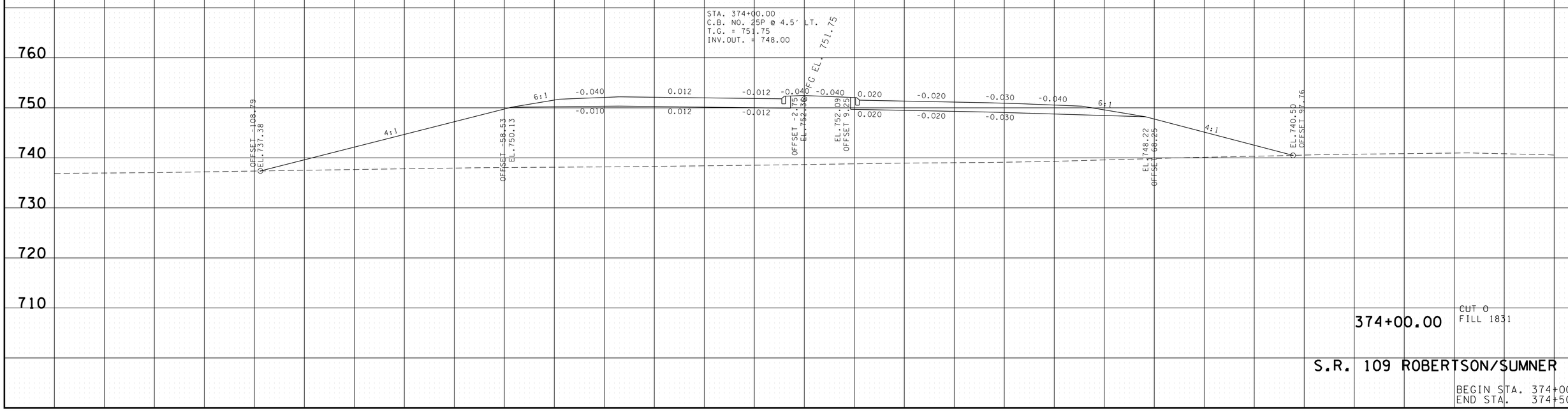
9/23/2014 8:30:39 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	205
CONST.	2014	STP/HPP/NH-I-65-3(113)	259

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



STA. 374+00.00
C.B. NO. 25P @ 4.5' LT.
T.G. = 751.75
INV.OUT. = 748.00



S.R. 109 ROBERTSON/SUMNER CO.

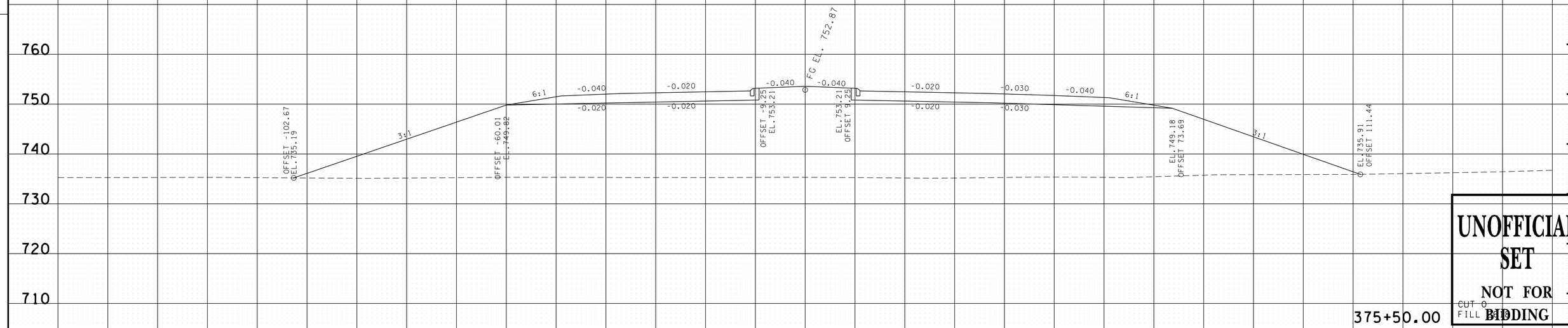
BEGIN STA. 374+00.00
END STA. 374+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

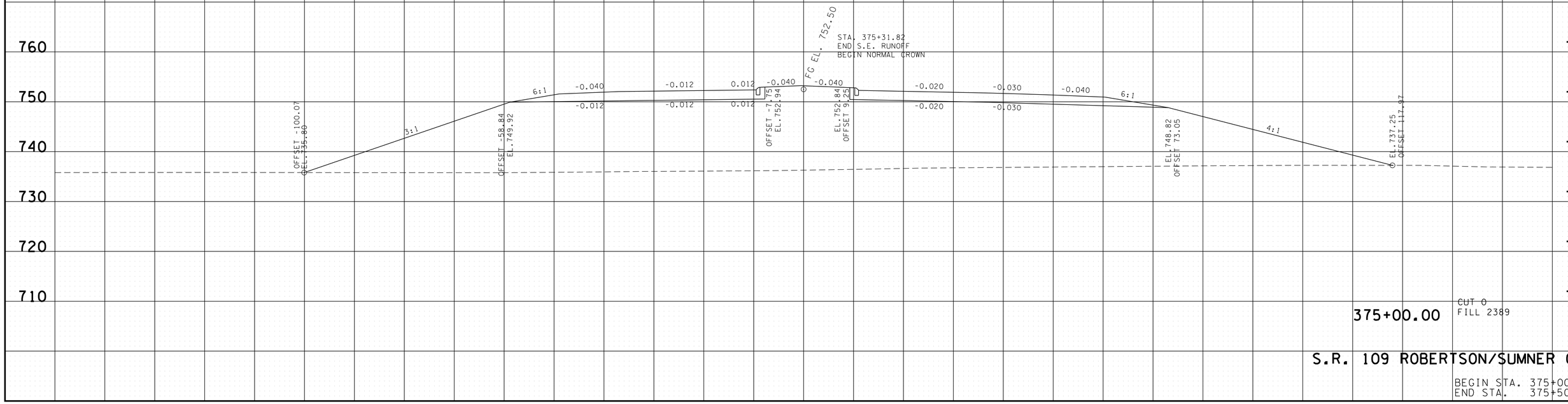
9/23/2014 8:30:43 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	206
CONST.	2014	STP/HPP/NH-I-65-3(113)	260

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 375+00.00
END STA. 375+50.00

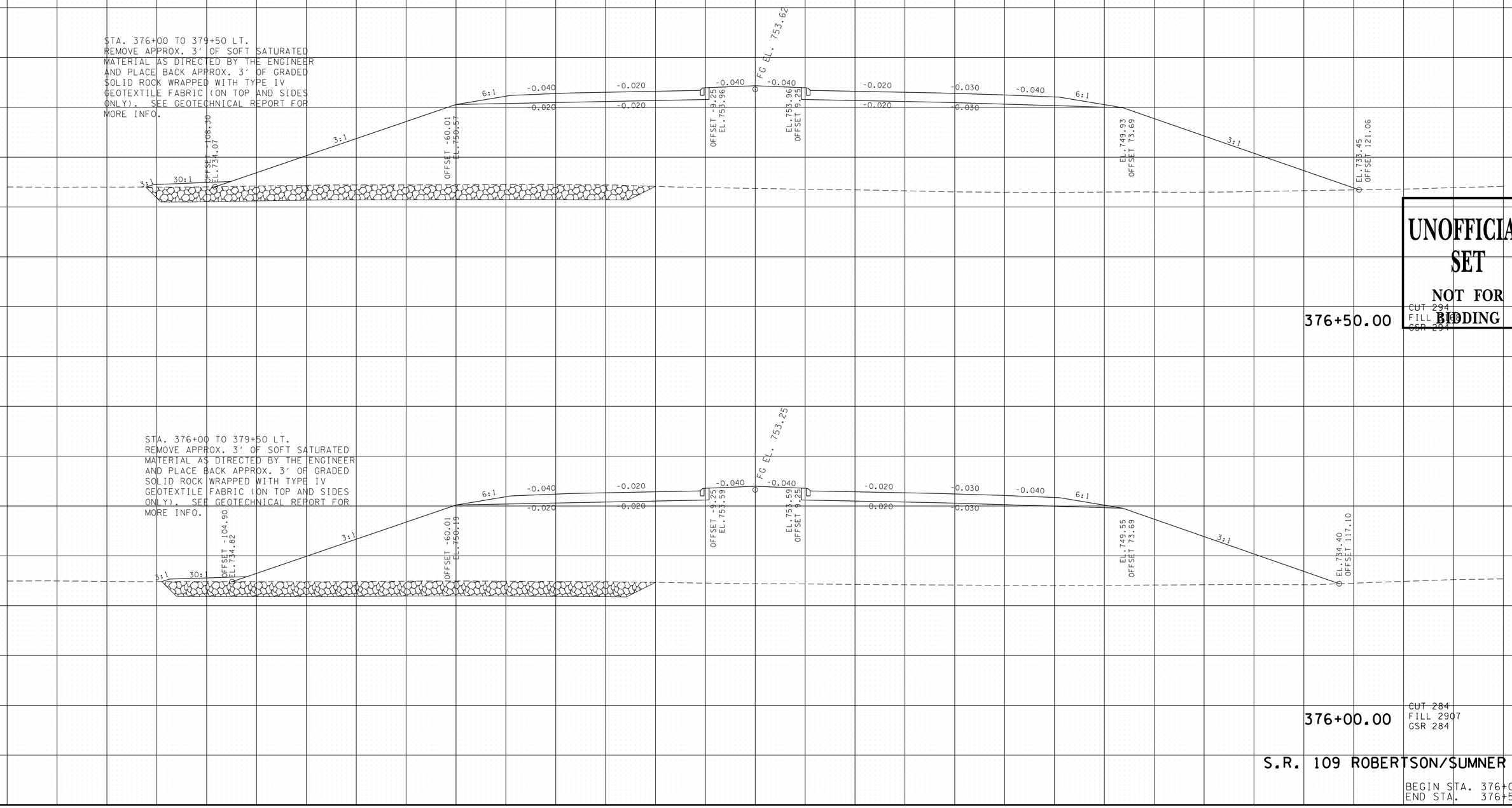
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 8:30:46 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	207
CONST.	2014	STP/HPP/NH-I-65-3(113)	261

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

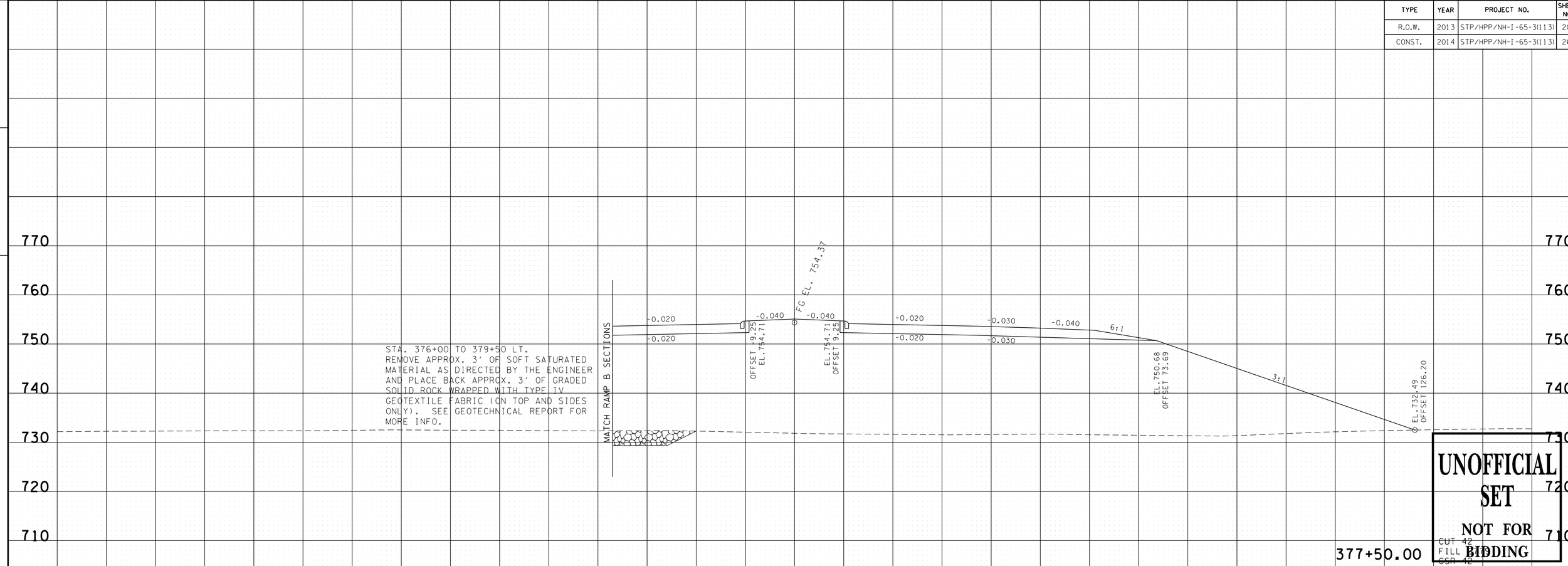
BEGIN STA. 376+00.00
END STA. 376+50.00

9/23/2014 8:30:49 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	208
CONST.	2014	STP/HPP/NH-I-65-3(113)	262

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



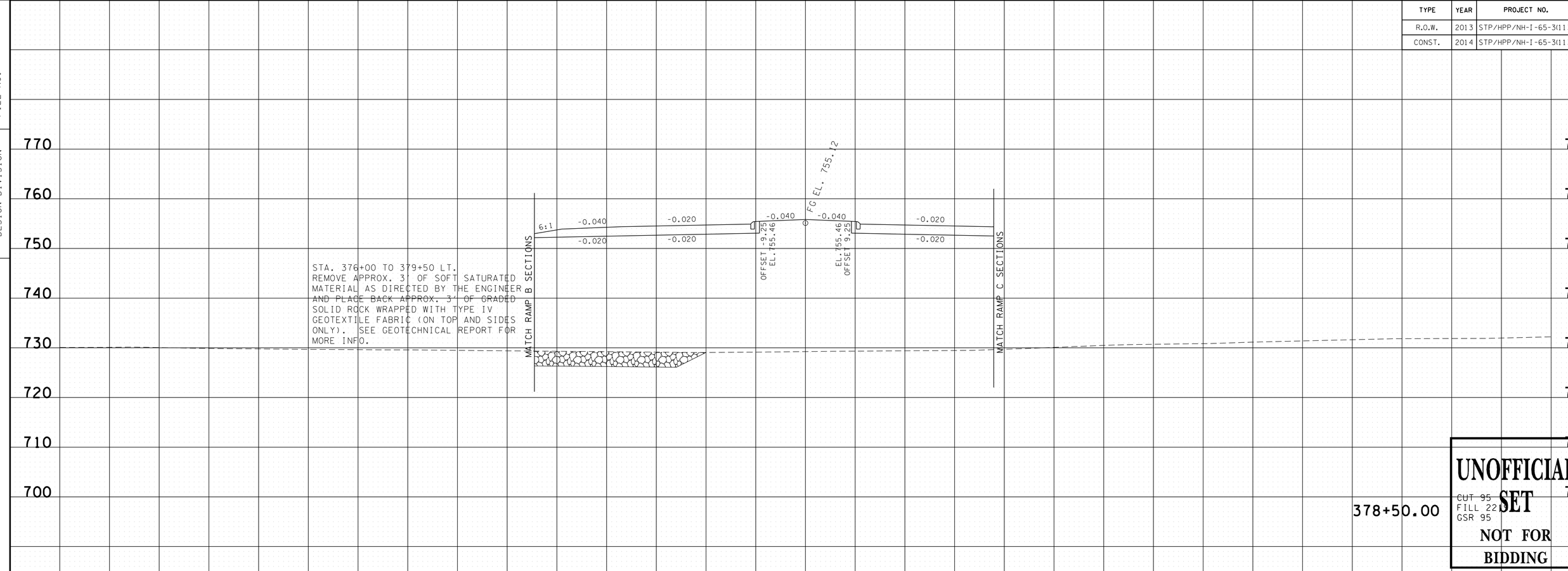
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 377+00.00
END STA. 377+50.00

9/23/2014 8:30:52 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	209
CONST.	2014	STP/HPP/NH-I-65-3(113)	263

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

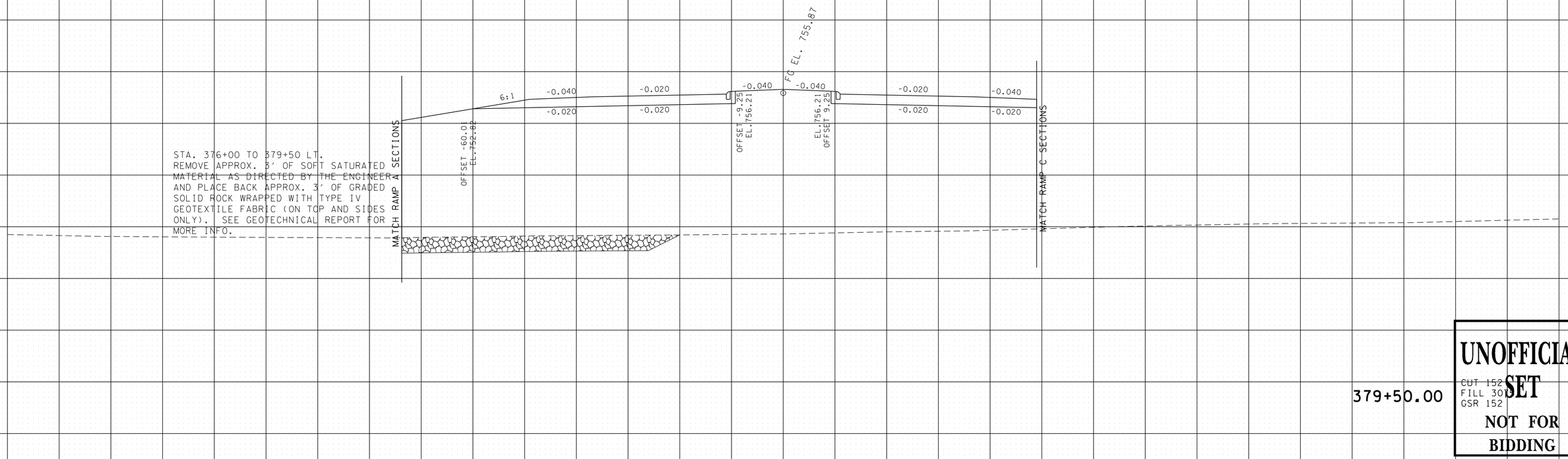
BEGIN STA. 378+00.00
END STA. 378+50.00

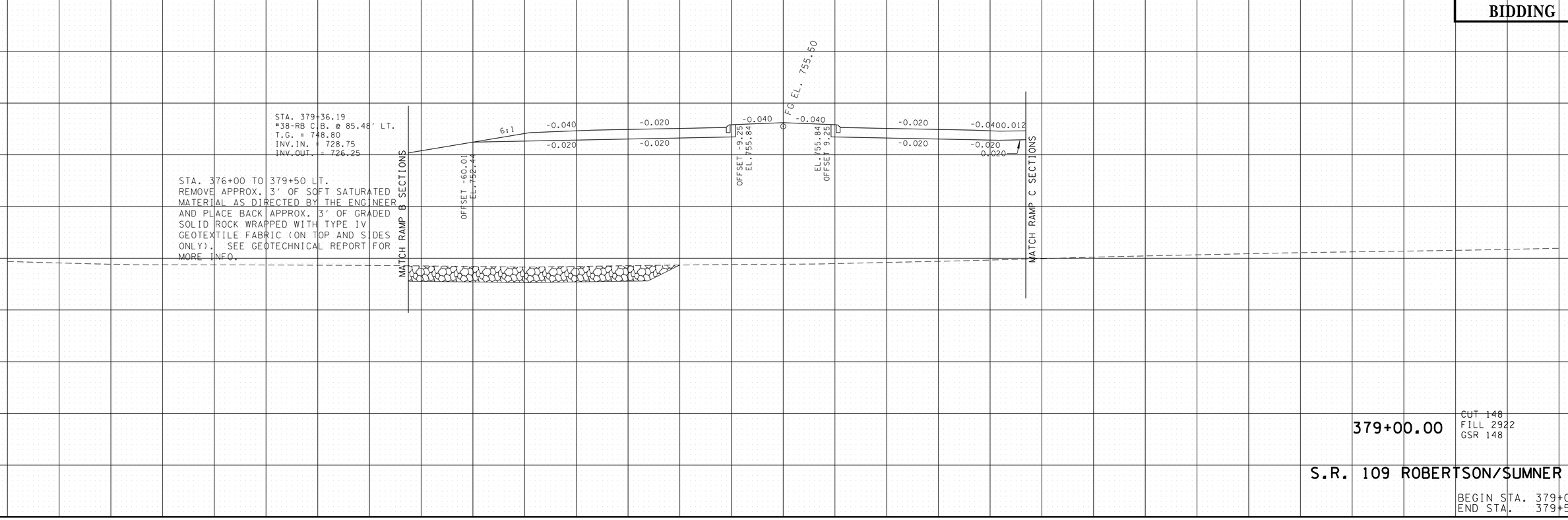
9/23/2014 8:30:56 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	210
CONST.	2014	STP/HPP/NH-I-65-3(113)	264

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





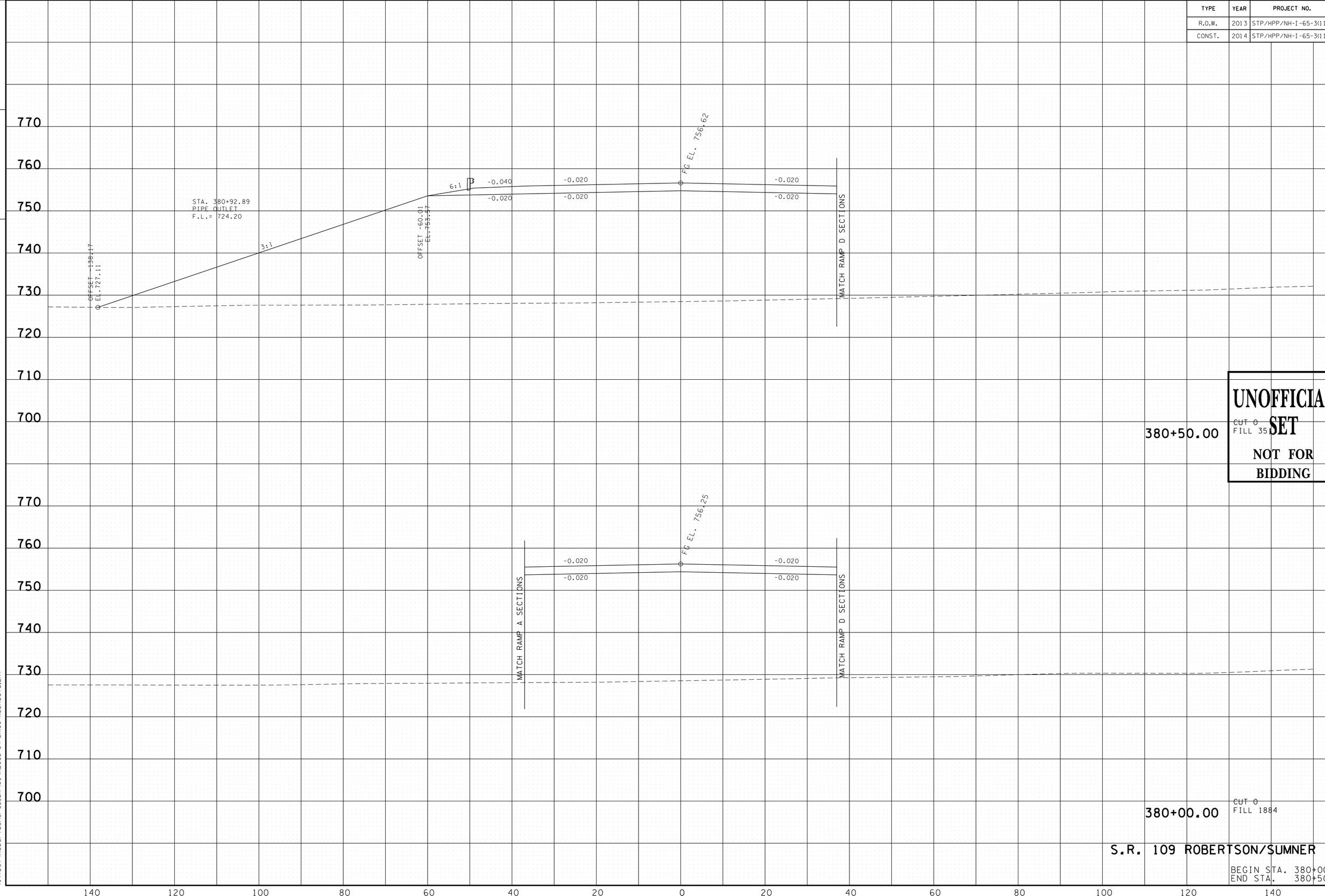
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 379+00.00
END STA. 379+50.00

9/23/2014 8:30:59 PM
T:\TDOT\Robertson\I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	211
CONST.	2014	STP/HPP/NH-I-65-3(113)	265

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



380+50.00
CUT 0
FILL 351

UNOFFICIAL SET
NOT FOR BIDDING

380+00.00
CUT 0
FILL 1884

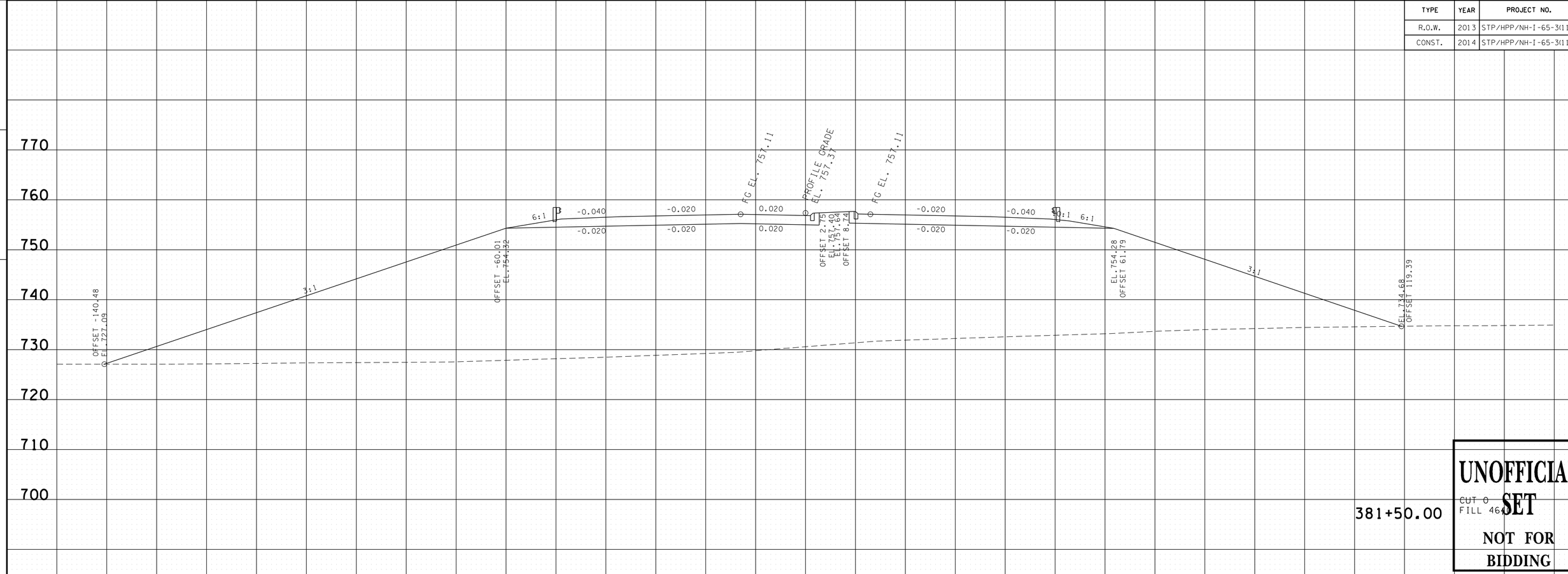
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 380+00.00
END STA. 380+50.00

9/23/2014 8:31:03 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	212
CONST.	2014	STP/HPP/NH-I-65-3(113)	266

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

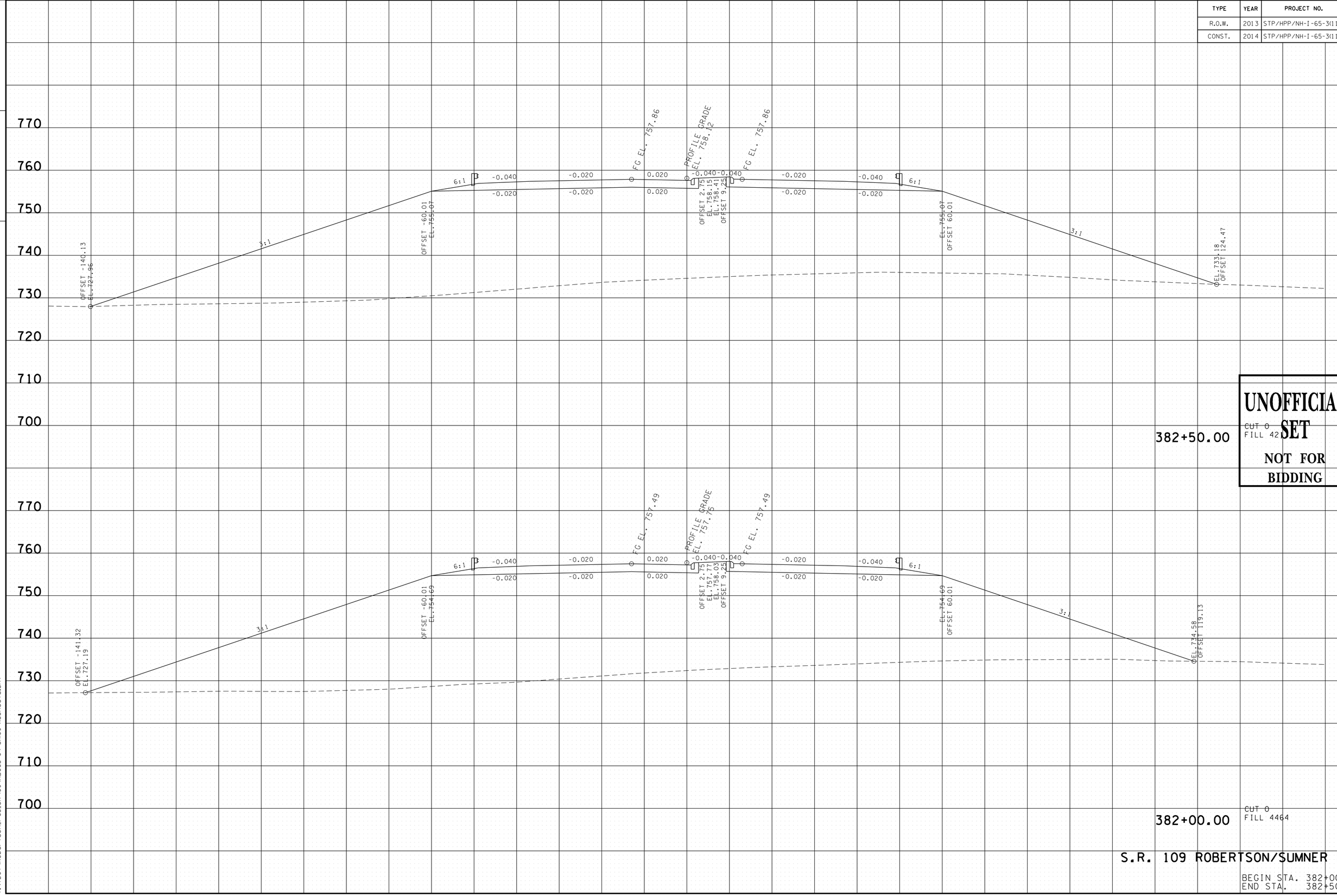
BEGIN STA. 381+00.00
END STA. 381+50.00

9/23/2014 8:31:06 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	213
CONST.	2014	STP/HPP/NH-I-65-3(113)	267

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

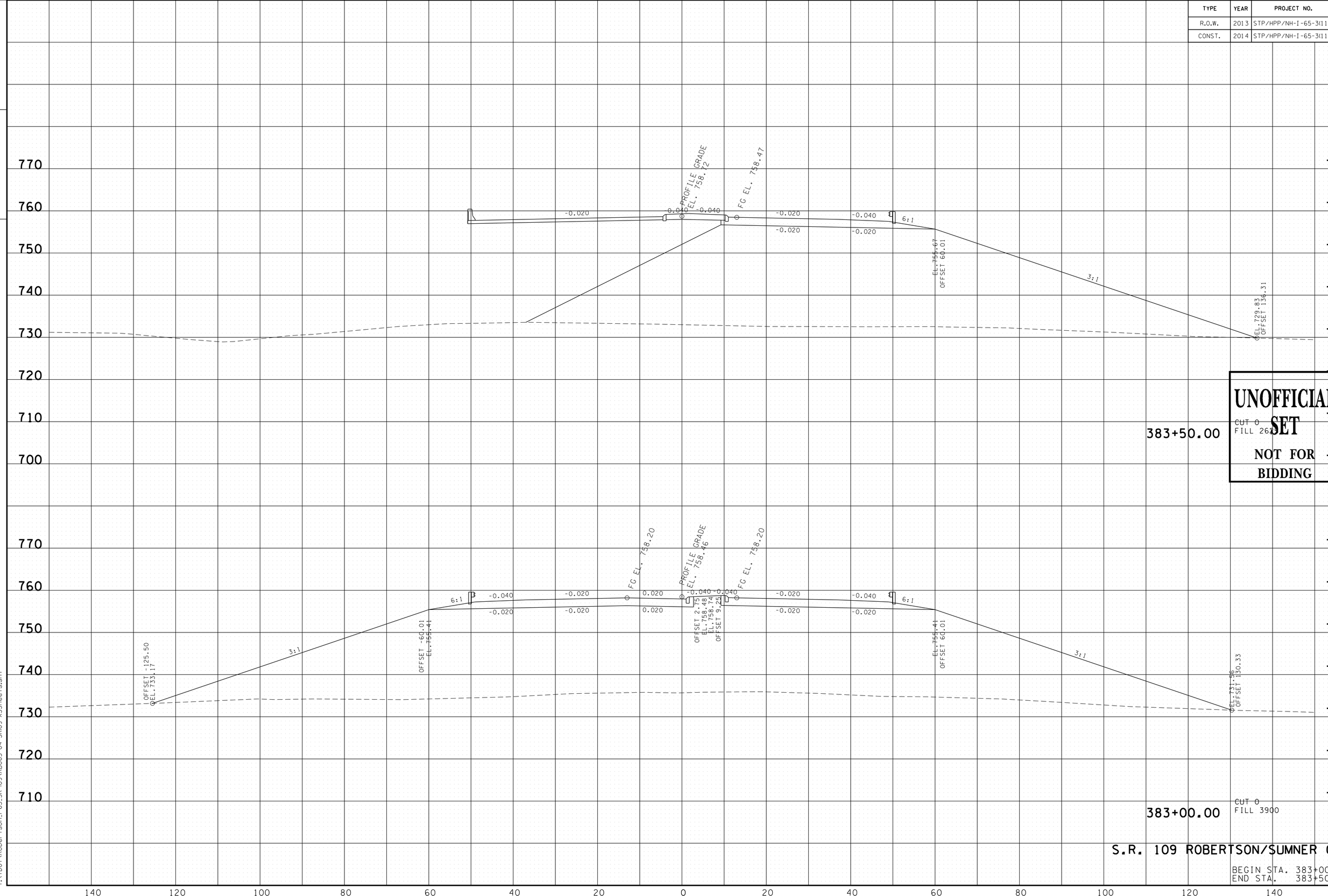
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 382+00.00
END STA. 382+50.00

9/23/2014 8:31:09 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	214
CONST.	2014	STP/HPP/NH-I-65-3(113)	268

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

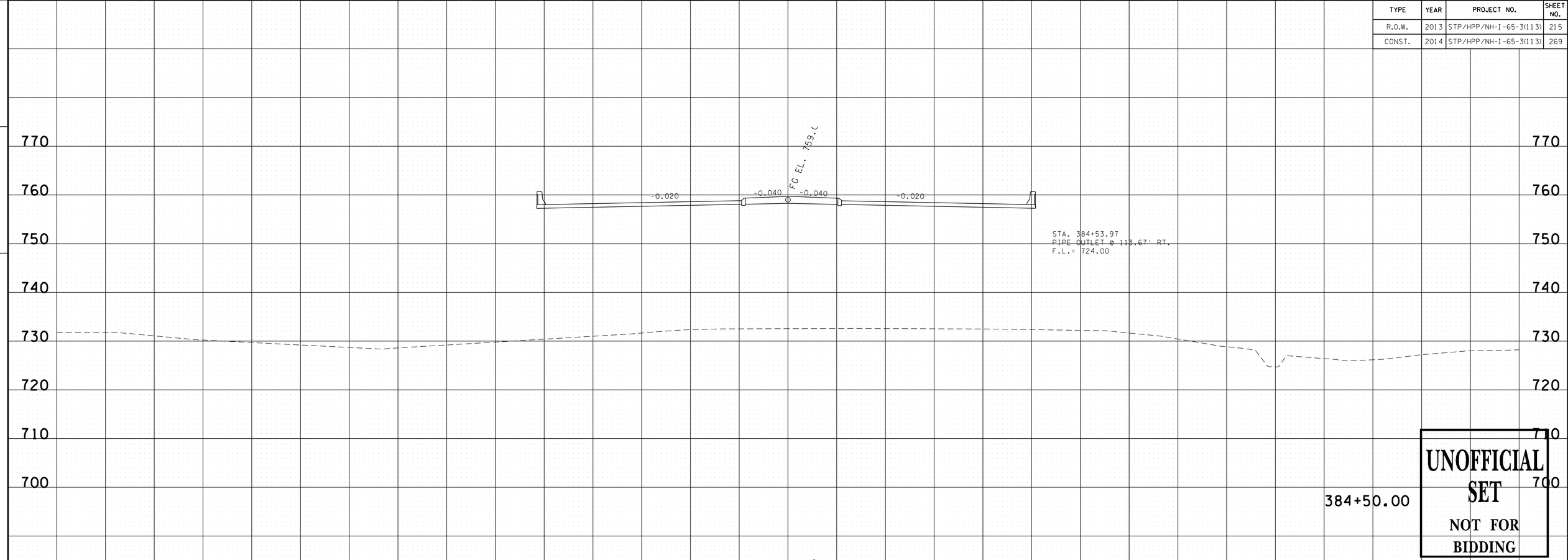
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 383+00.00
END STA. 383+50.00

9/23/2014 8:3:12 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	215
CONST.	2014	STP/HPP/NH-I-65-3(113)	269

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 384+00.00
END STA. 384+50.00

9/23/2014 8:31:16 PM
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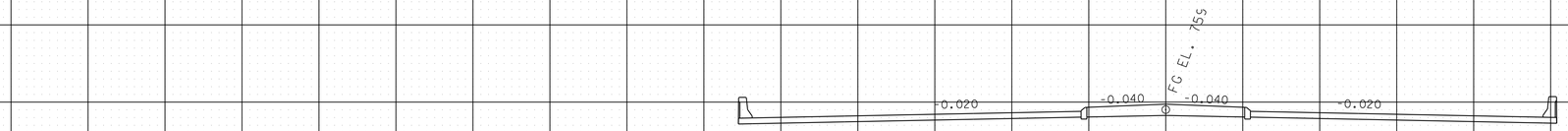
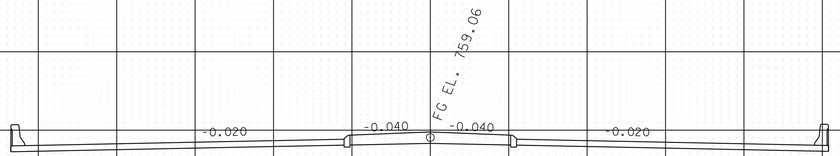
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	216
CONST.	2014	STP/HPP/NH-I-65-3(113)	270

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



STA. 385+91.78
PIPE OUTLET ø 134.90' RT.
F.L.- 724.00



EX. EOP EL.731.66

EX. EOP EL.732.32

EX. EOP EL.733.08

EX. EOP EL.733.02

385+50.00

385+00.00

UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 385+00.00
END STA. 385+50.00

9/23/2014 8:31:19 PM
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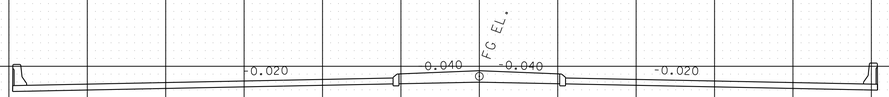
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	217
CONST.	2014	STP/HPP/NH-I-65-3(113)	271

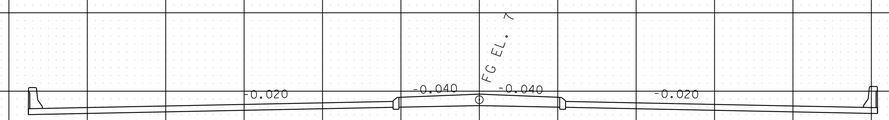
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



760 750 740 730 720 710 700 690

386+50.00

UNOFFICIAL SET
NOT FOR BIDDING



STA. 386+05.47
"3 M.H.(108" I.D.) @ 30.78' LT.
T.G. = 728.60
INV.IN. = 720.00
INV.OUT. = 719.50

770 760 750 740 730 720 710 700

386+00.00

S.R. 109 ROBERTSON/SUMNER CO.

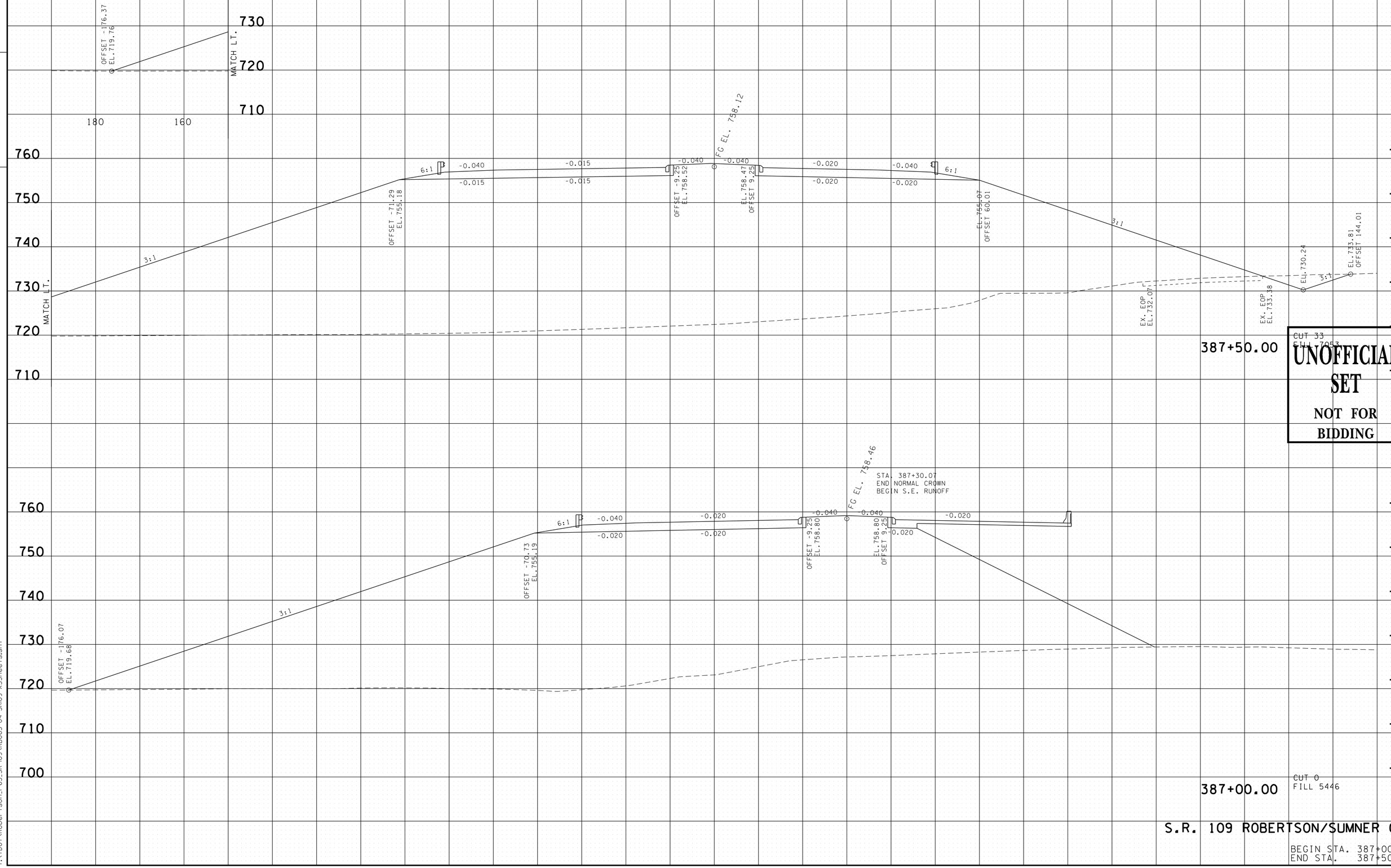
BEGIN STA. 386+00.00
END STA. 386+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 8:31:22 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	218
CONST.	2014	STP/HPP/NH-I-65-3(113)	272

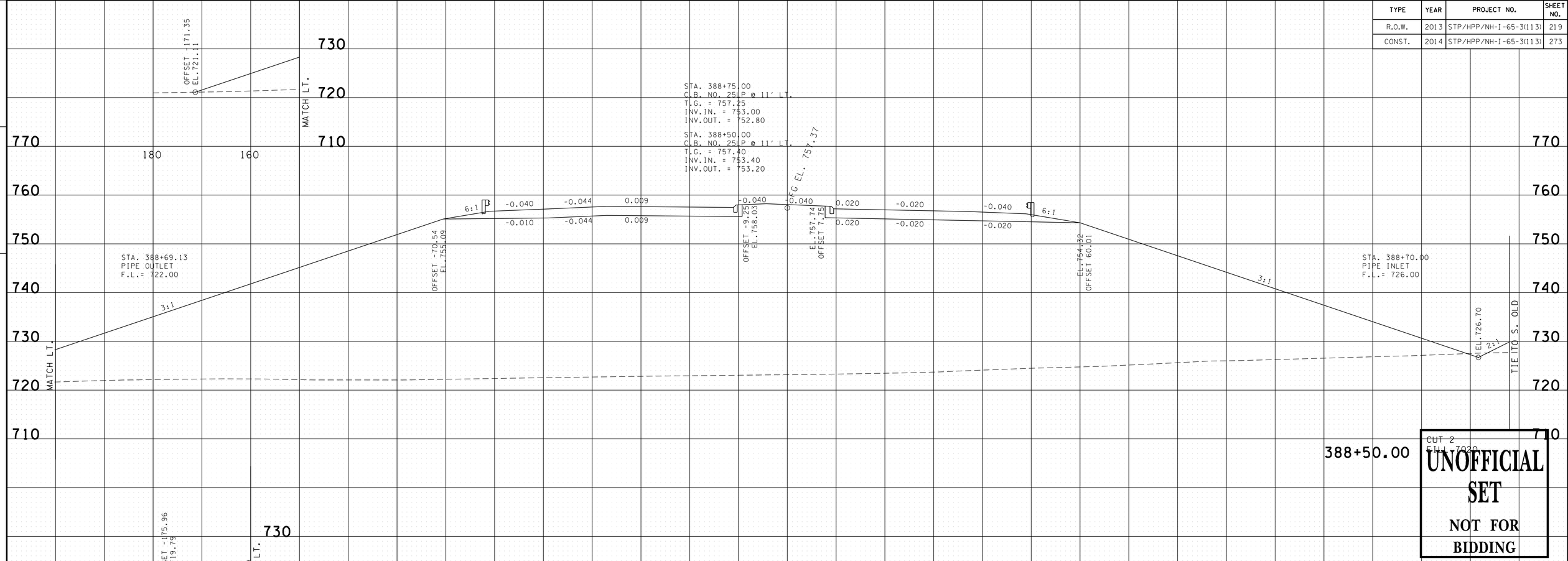
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



9/23/2014 8:31:25 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	219
CONST.	2014	STP/HPP/NH-I-65-3(113)	273

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

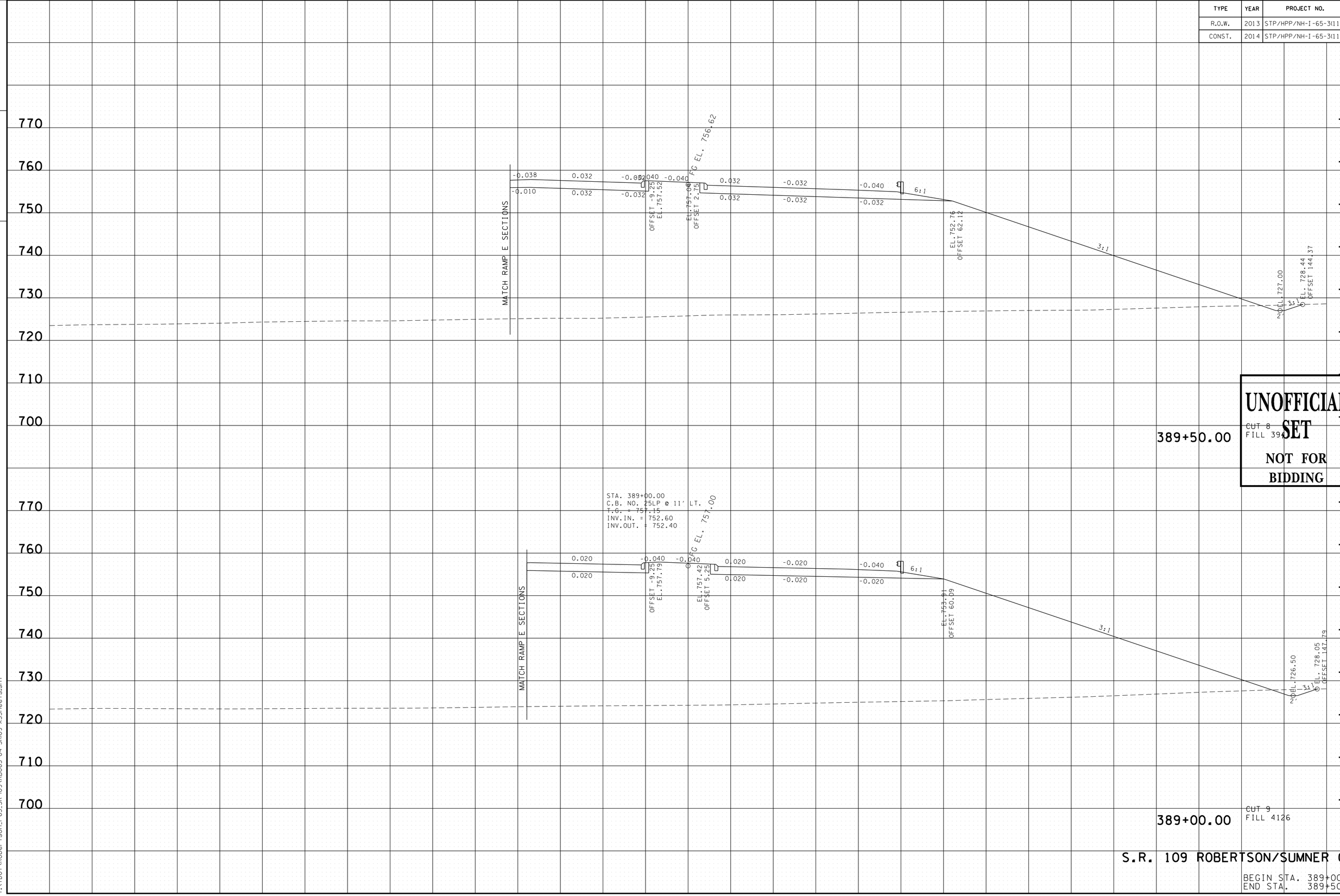


9/23/2014 8:31:29 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	220
CONST.	2014	STP/HPP/NH-I-65-3(113)	274

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

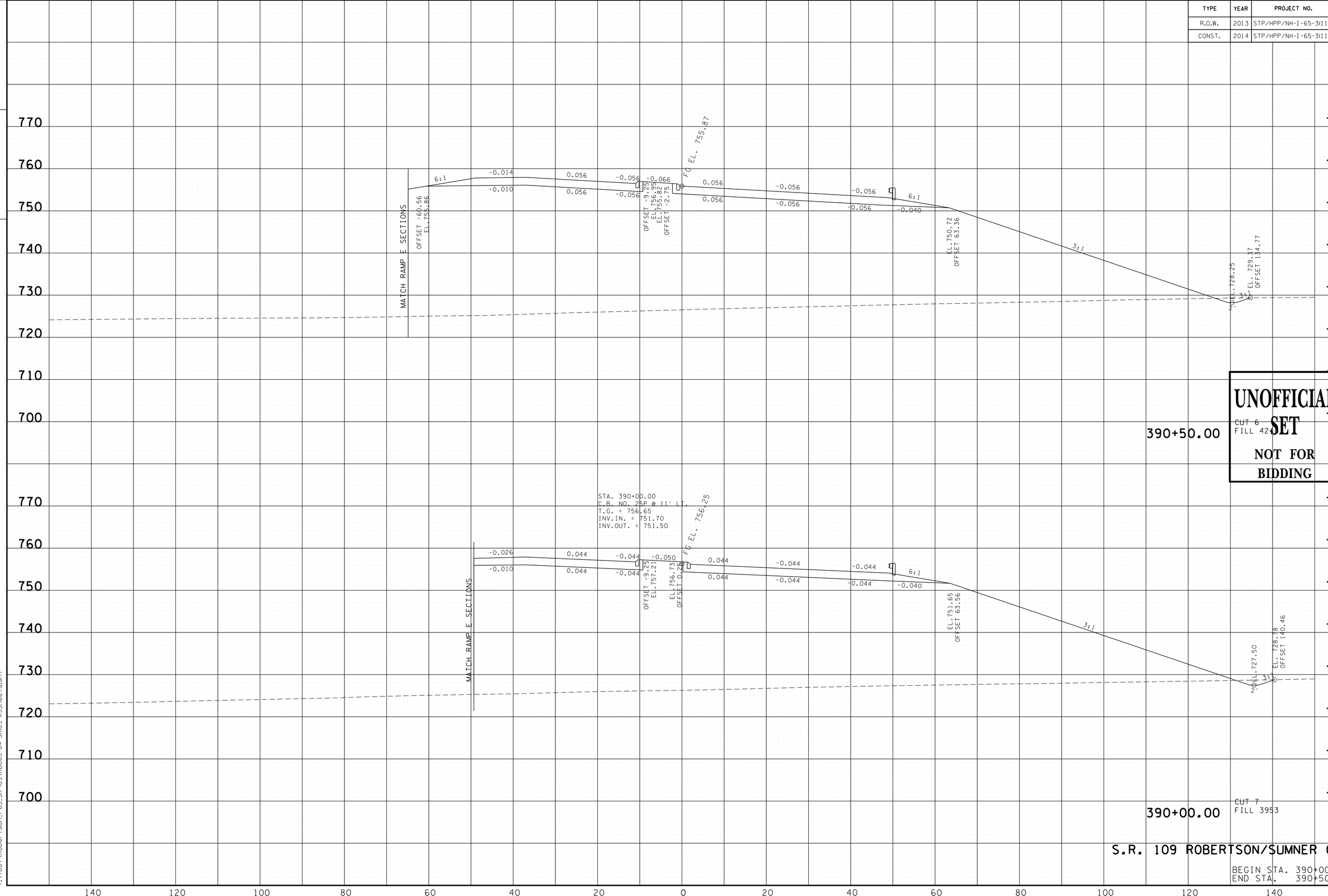
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 389+00.00
END STA. 389+50.00

9/23/2014 8:31:32 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	221
CONST.	2014	STP/HPP/NH-I-65-3(113)	275

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



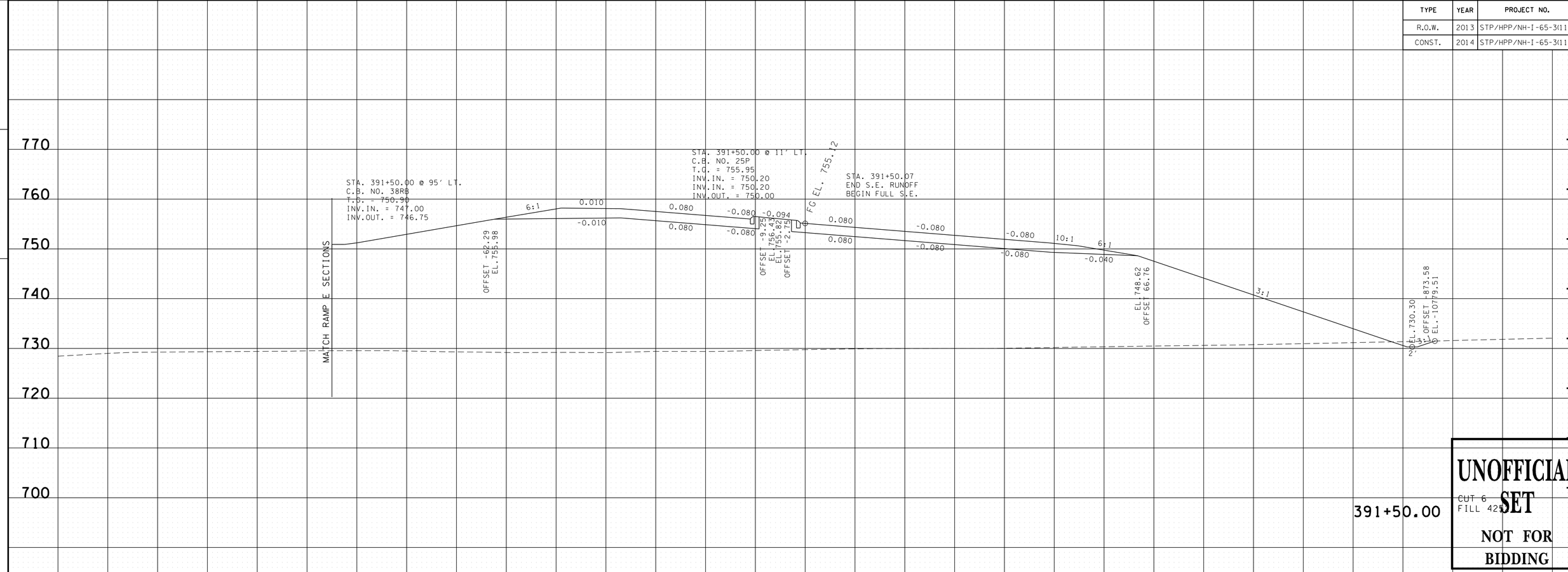
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 390+00.00
END STA. 390+50.00

9/23/2014 8:31:35 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	222
CONST.	2014	STP/HPP/NH-I-65-3(113)	276

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 391+00.00
END STA. 391+50.00

9/23/2014 8:31:38 PM
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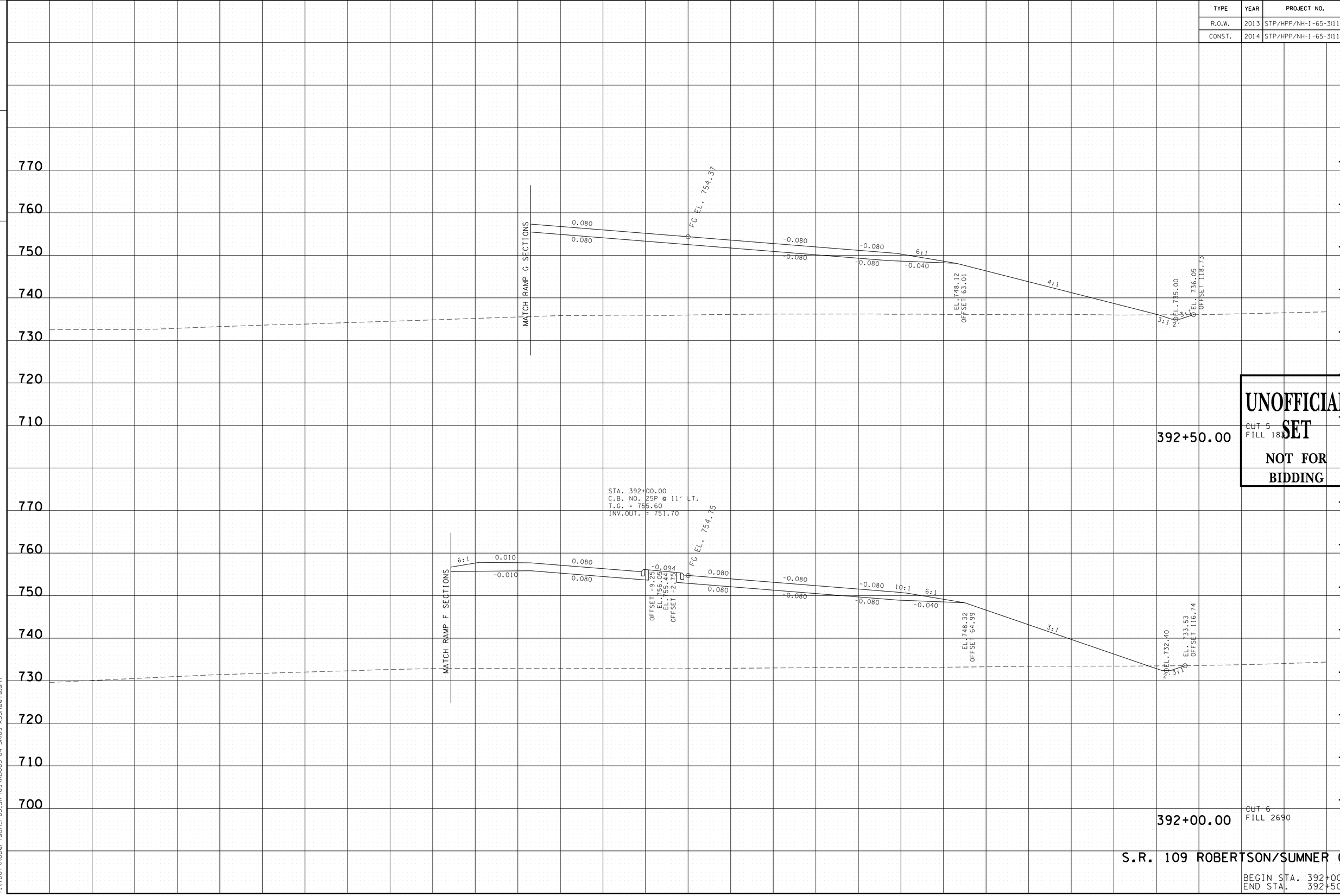
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	223
CONST.	2014	STP/HPP/NH-I-65-3(113)	277

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

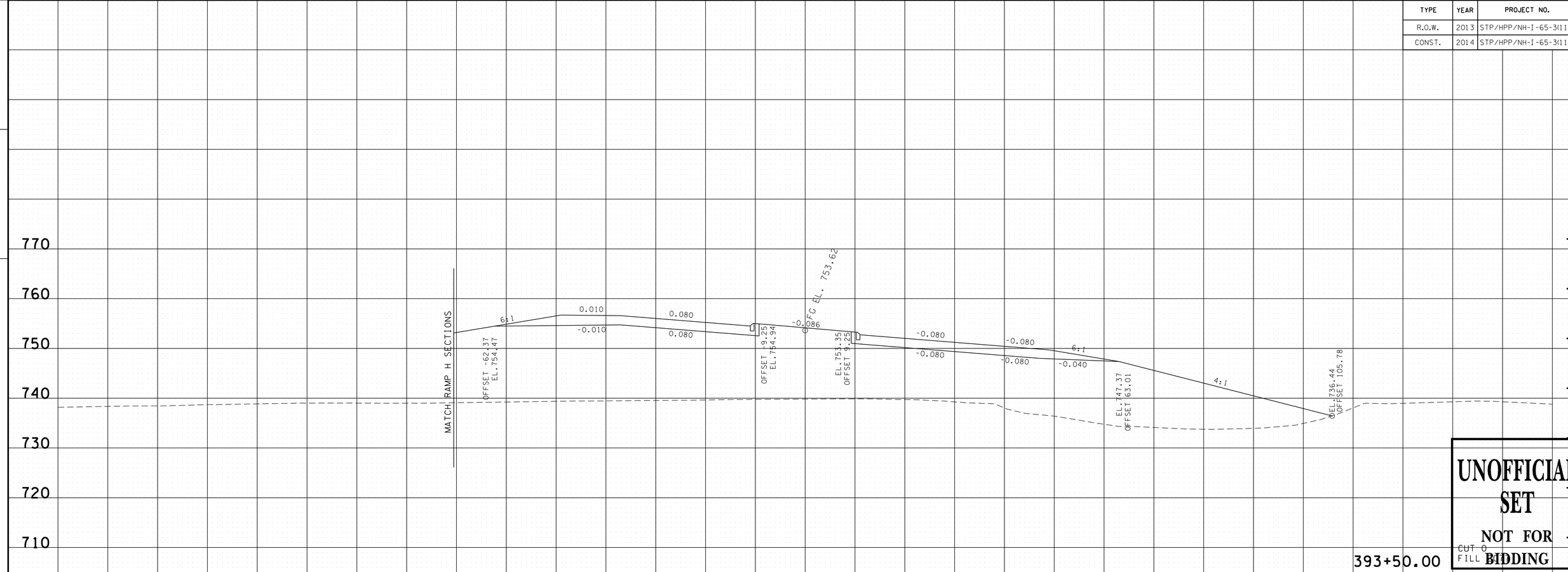
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 392+00.00
END STA. 392+50.00

9/23/2014 8:31:42 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	224
CONST.	2014	STP/HPP/NH-I-65-3(113)	278

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 393+00.00
END STA. 393+50.00

9/23/2014 8:31:45 PM
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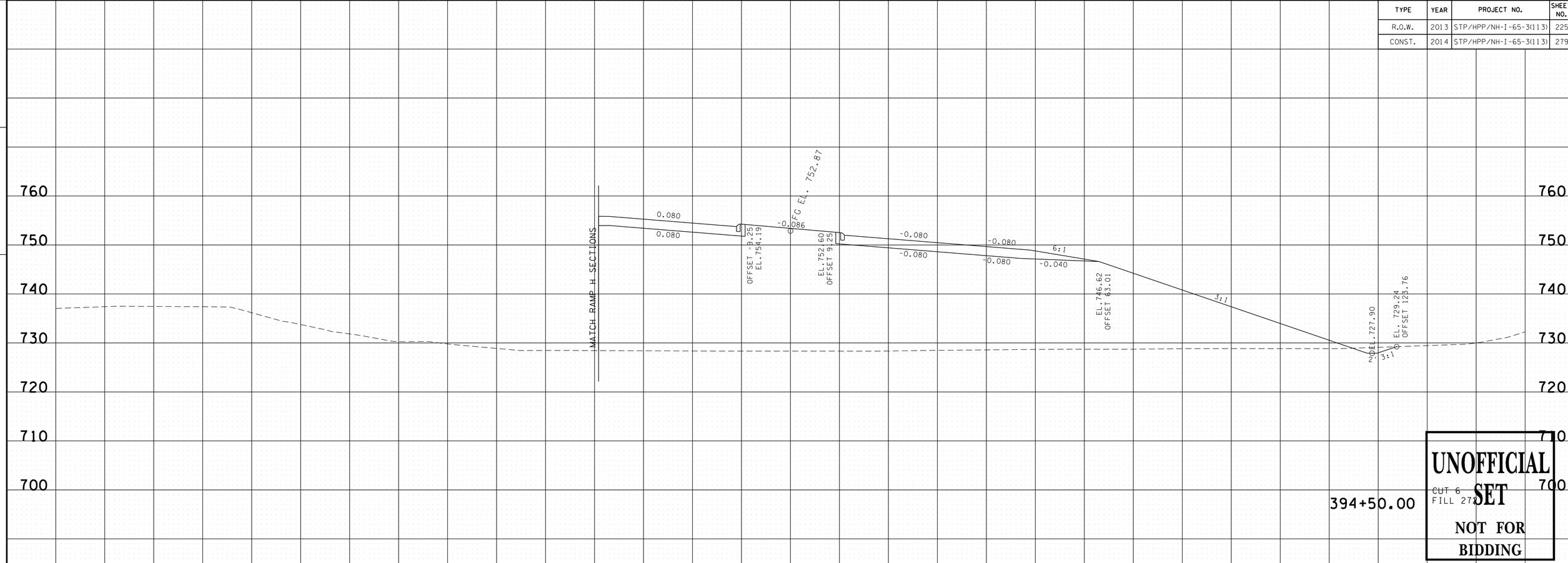
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	225
CONST.	2014	STP/HPP/NH-I-65-3(113)	279

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



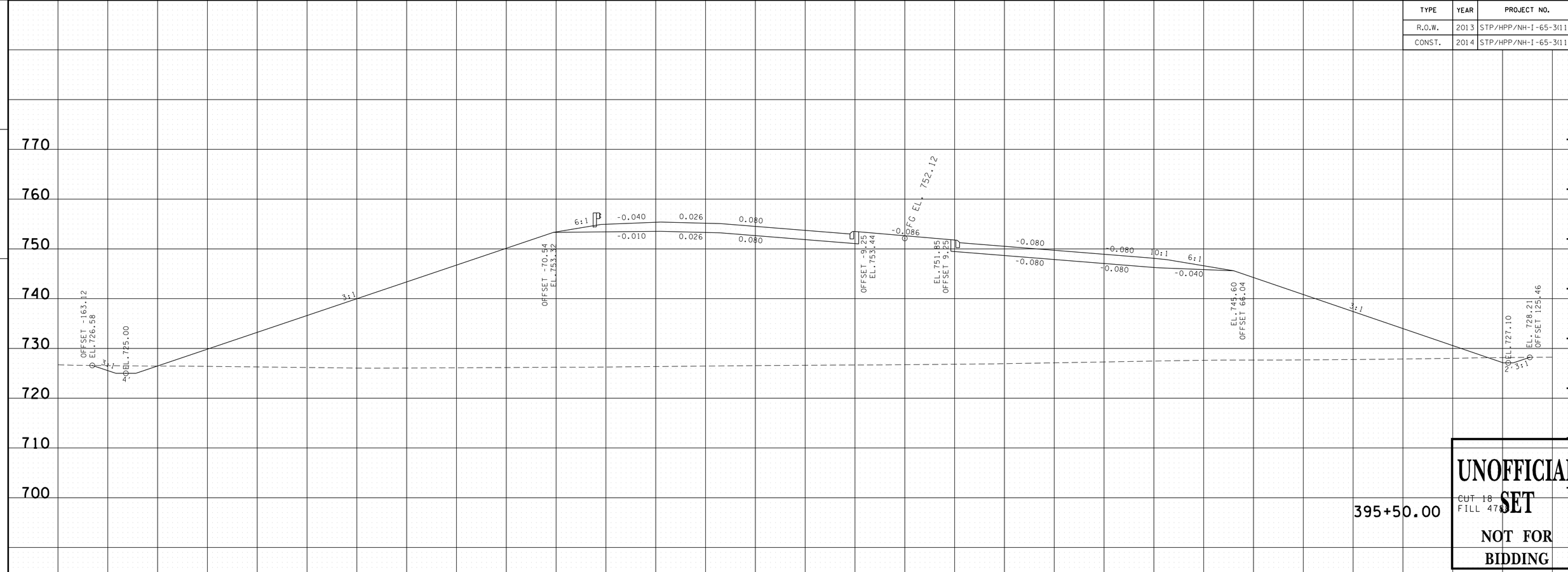
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 394+00.00
END STA. 394+50.00

9/23/2014 8:31:48 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	226
CONST.	2014	STP/HPP/NH-I-65-3(113)	280

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 395+00.00
END STA. 395+50.00

9/23/2014 8:35:51 PM
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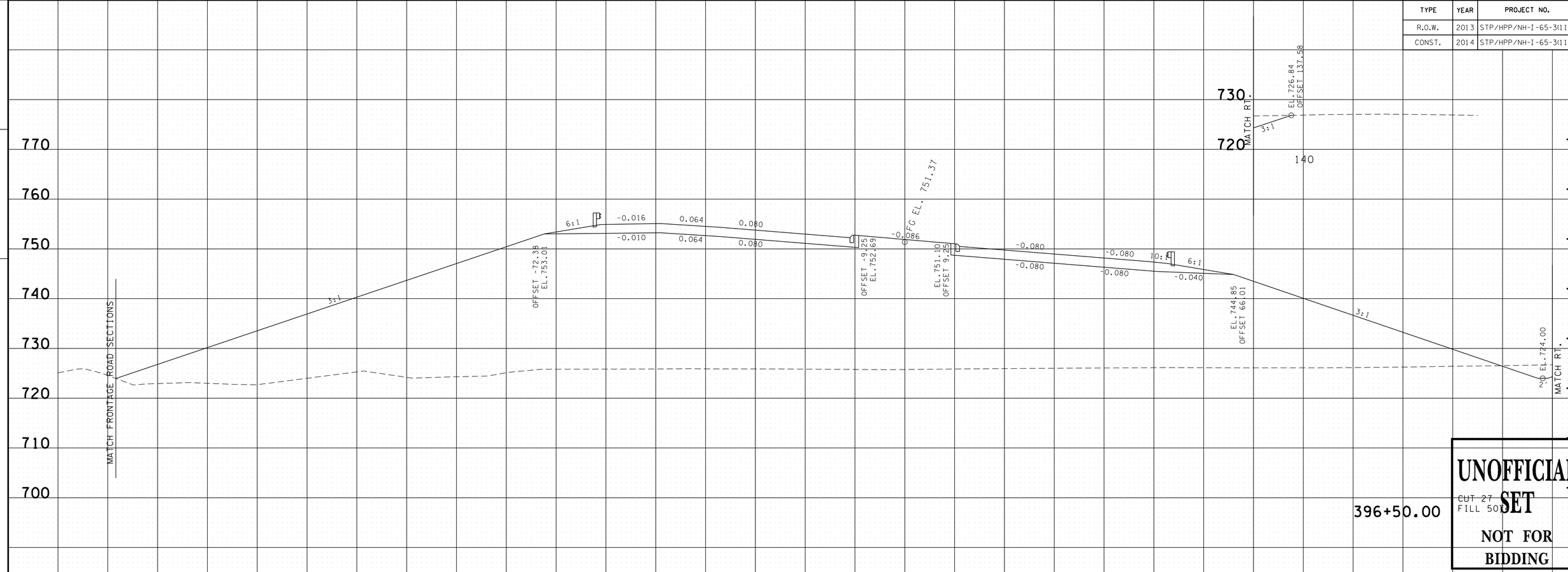
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	227
CONST.	2014	STP/HPP/NH-I-65-3(113)	281

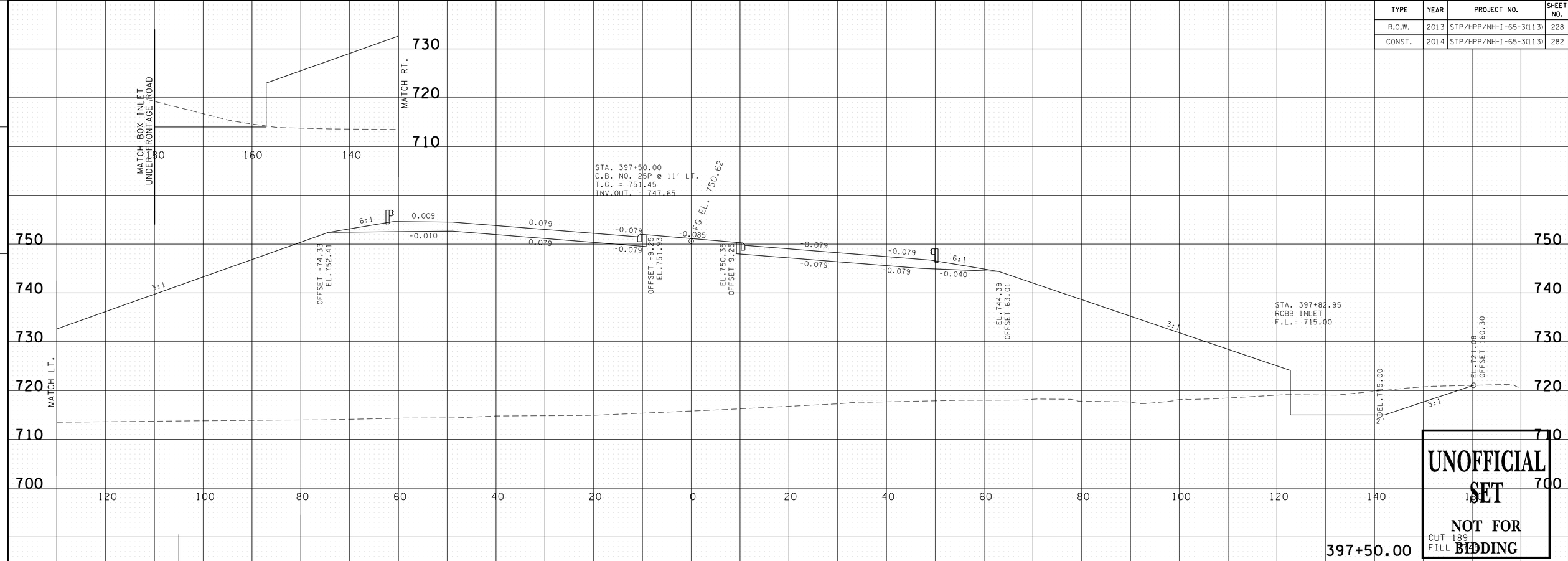
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



9/23/2014 8:31:55 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	228
CONST.	2014	STP/HPP/NH-I-65-3(113)	282

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 397+00.00
END STA. 397+50.00

9/23/2014 8:31:58 PM
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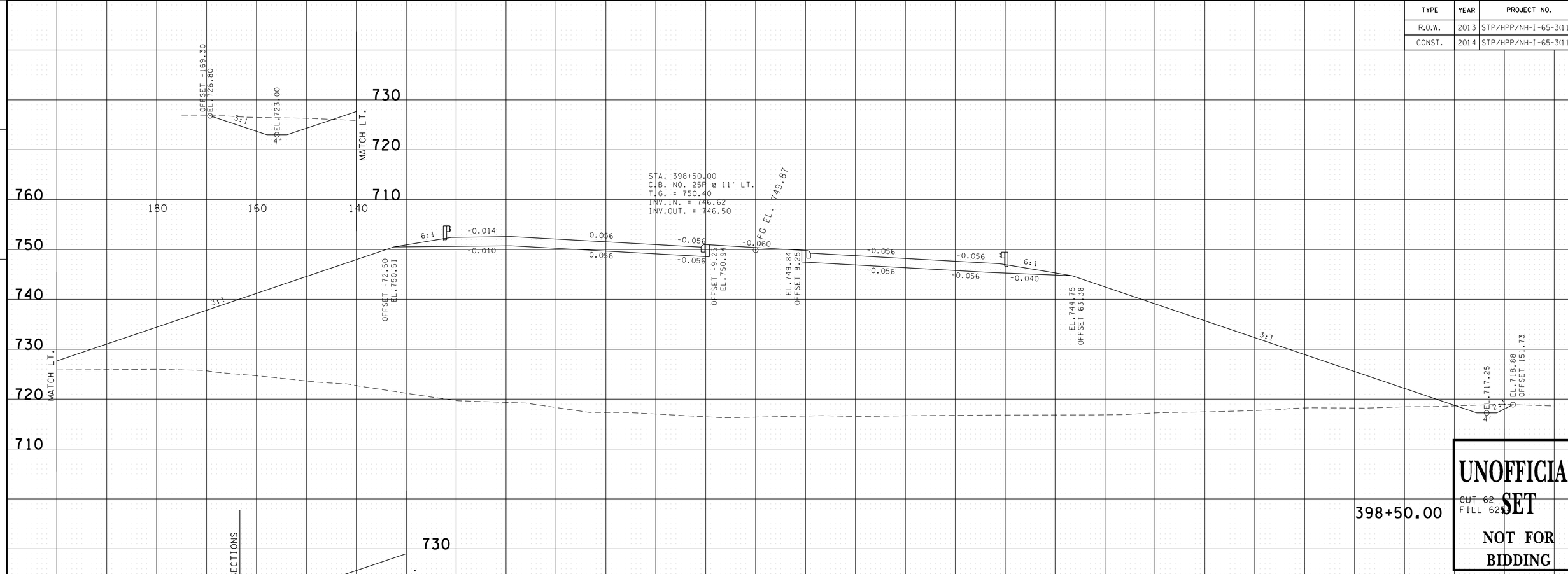
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	229
CONST.	2014	STP/HPP/NH-I-65-3(113)	283

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



9/23/2014 8:32:09 PM
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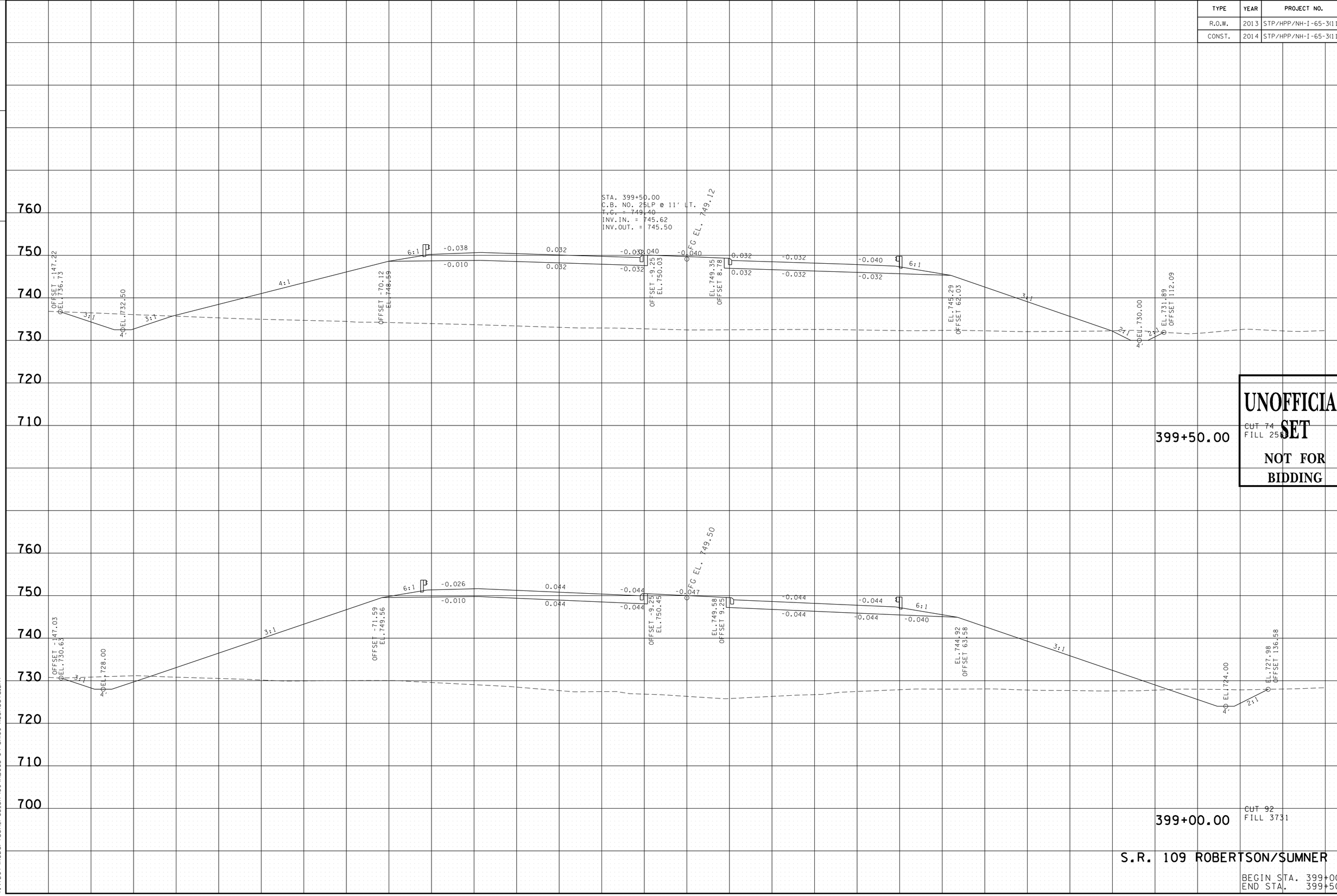
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	230
CONST.	2014	STP/HPP/NH-I-65-3(113)	284

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

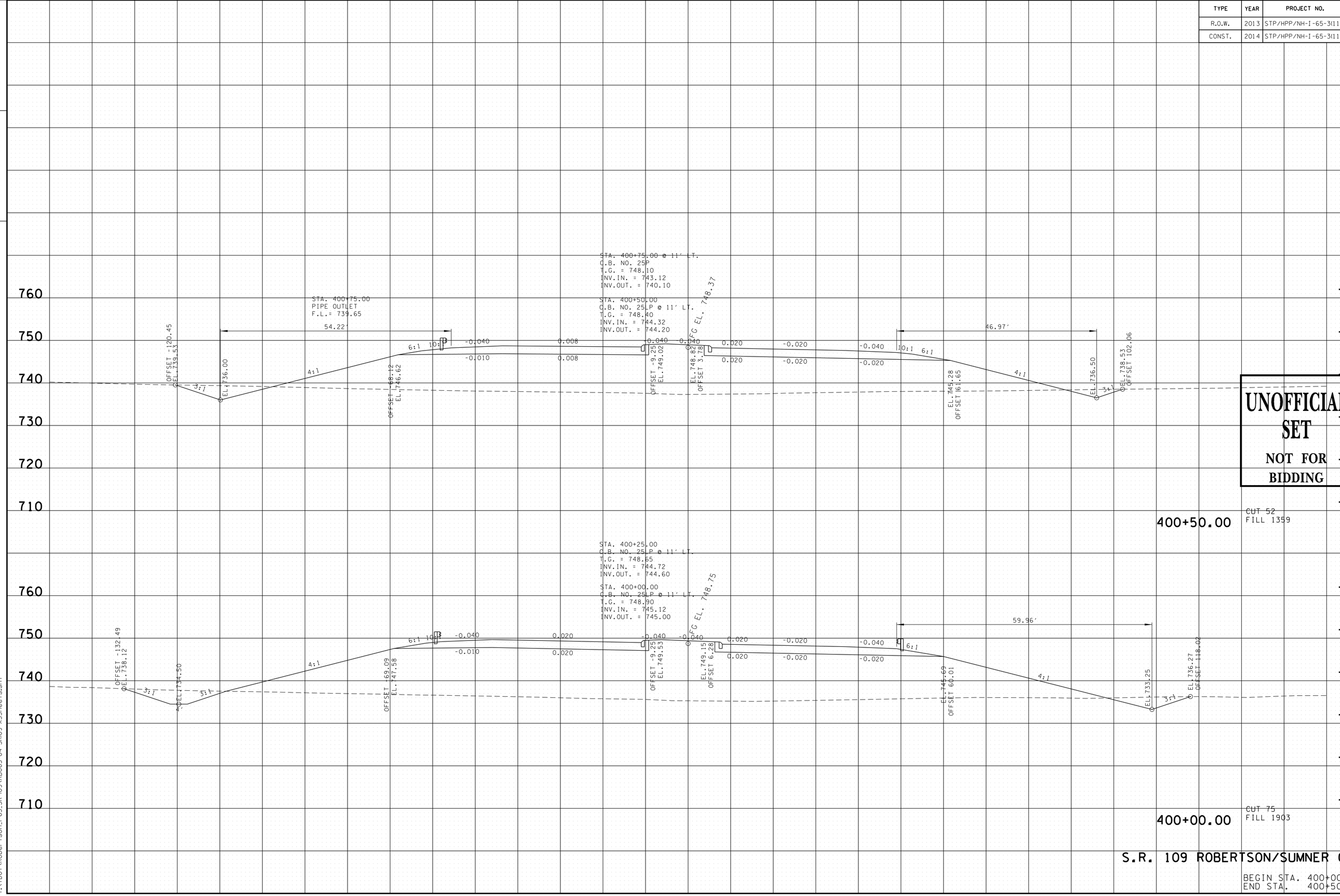
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 399+00.00
END STA. 399+50.00

9/23/2014 8:32:12 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	231
CONST.	2014	STP/HPP/NH-I-65-3(113)	285

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

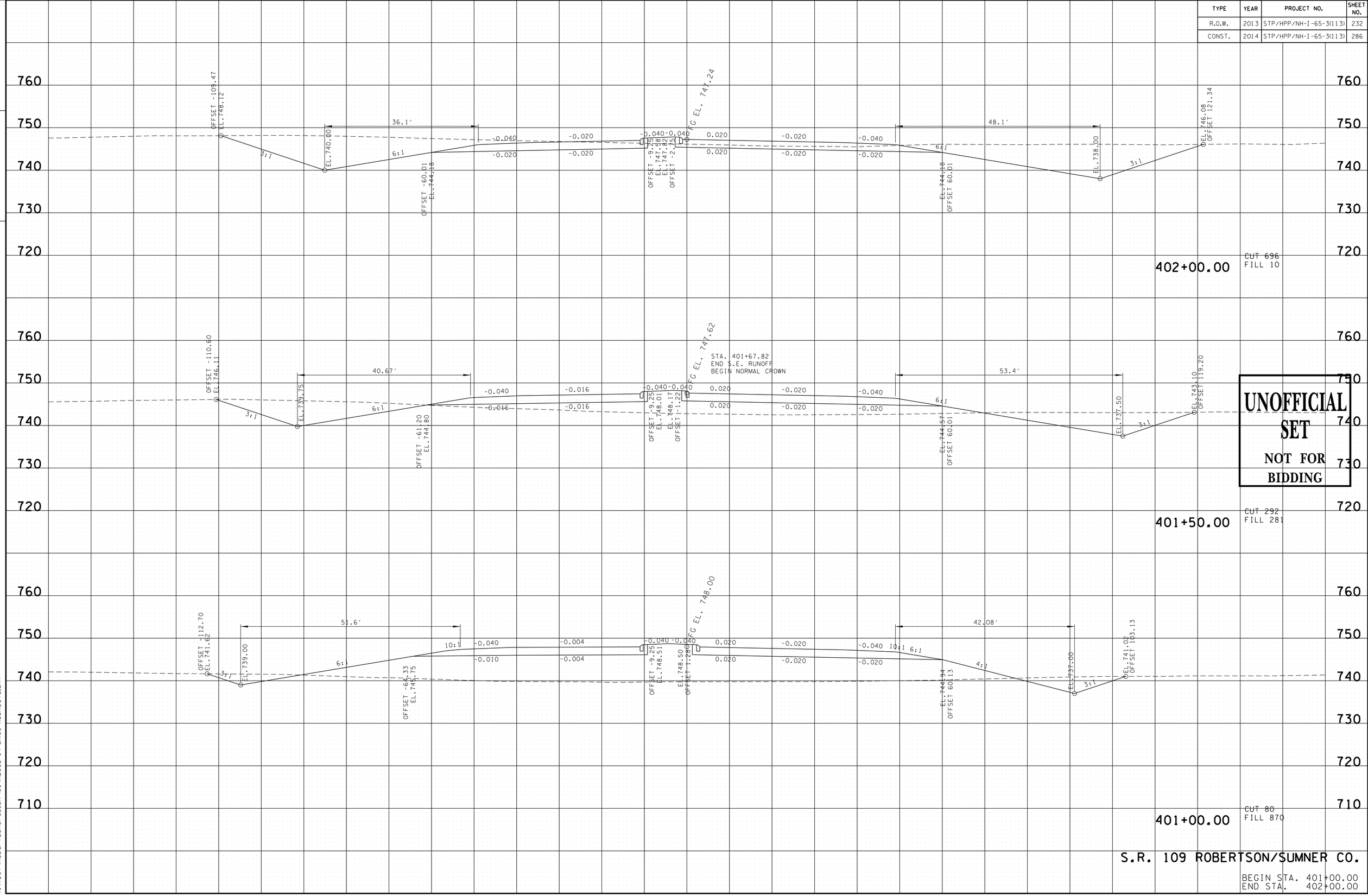
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 400+00.00
END STA. 400+50.00

9/23/2014 8:32:16 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	232
CONST.	2014	STP/HPP/NH-I-65-3(113)	286

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

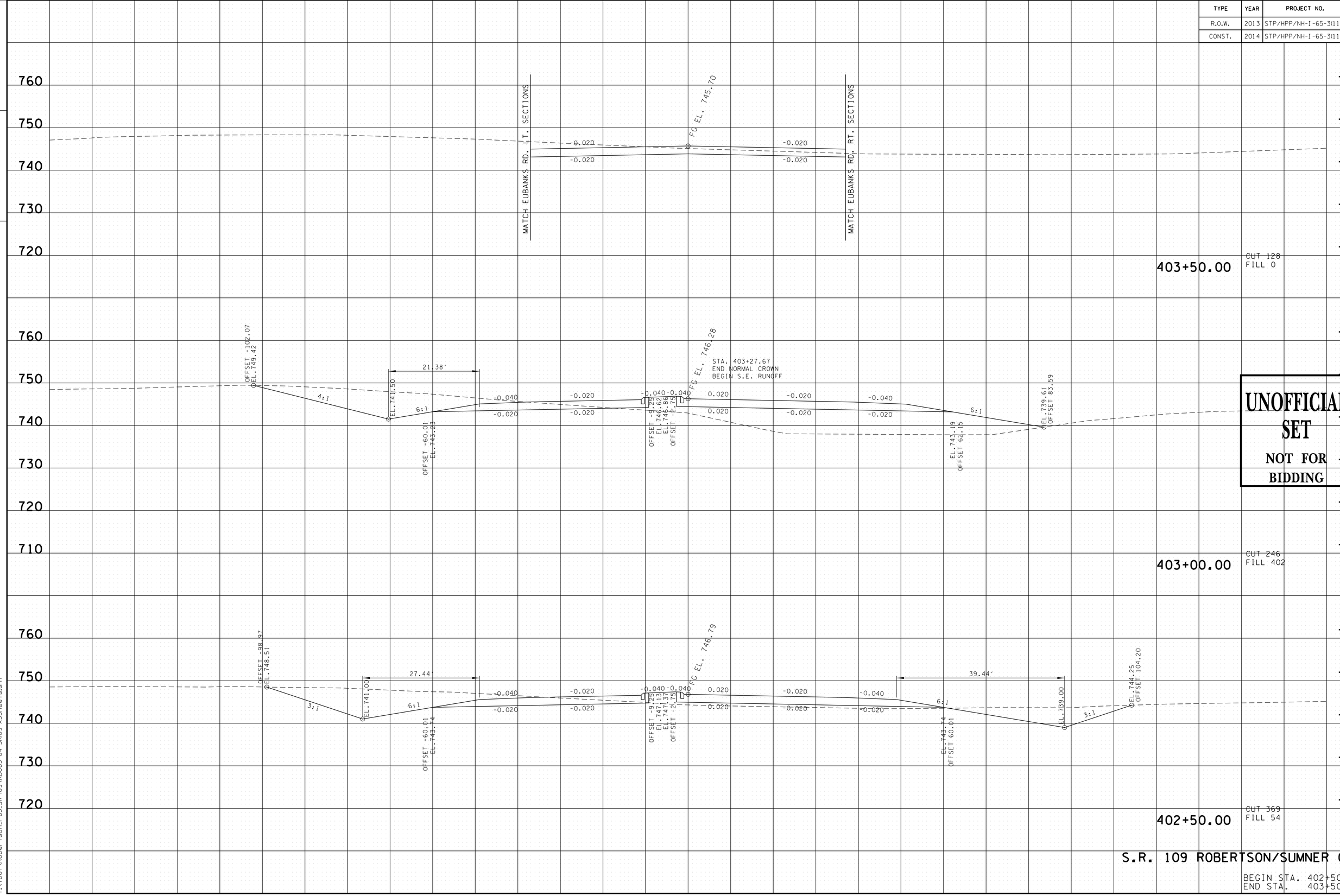
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 401+00.00
END STA. 402+00.00

9/23/2014 8:32:19 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	233
CONST.	2014	STP/HPP/NH-I-65-3(113)	287

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

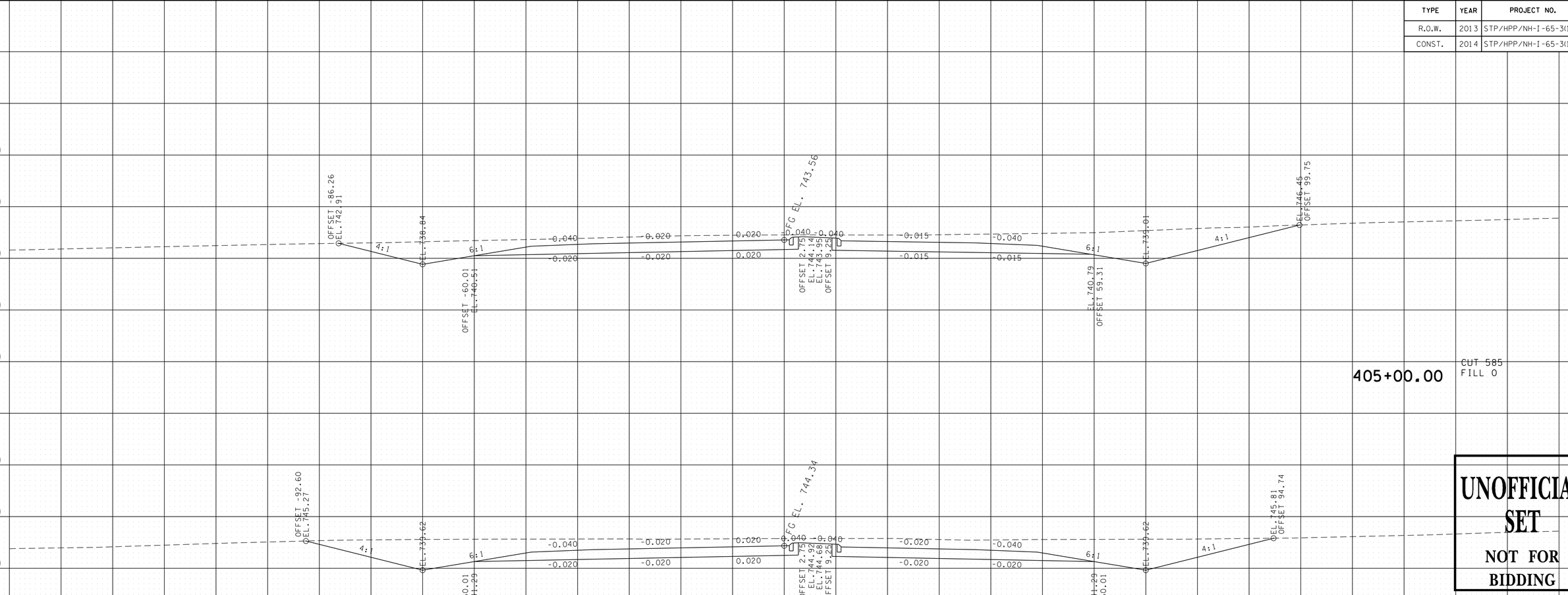
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 402+50.00
END STA. 403+50.00

9/23/2014 8:32:22 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	234
CONST.	2014	STP/HPP/NH-I-65-3(113)	288

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

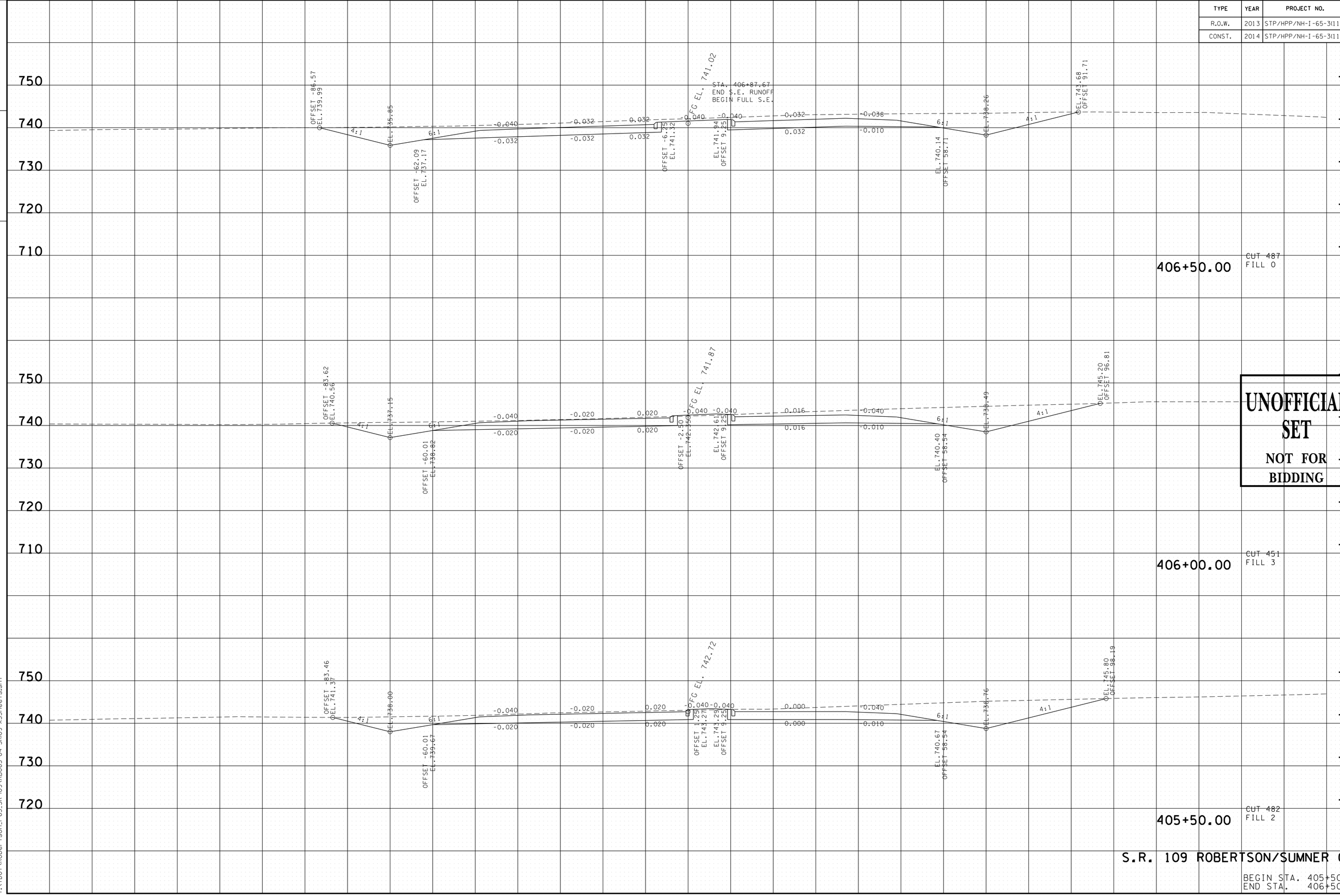
S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 404+00.00
END STA. 405+00.00

9/23/2014 8:32:25 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	235
CONST.	2014	STP/HPP/NH-I-65-3(113)	289

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 405+50.00
END STA. 406+50.00

9/23/2014 8:32:29 PM
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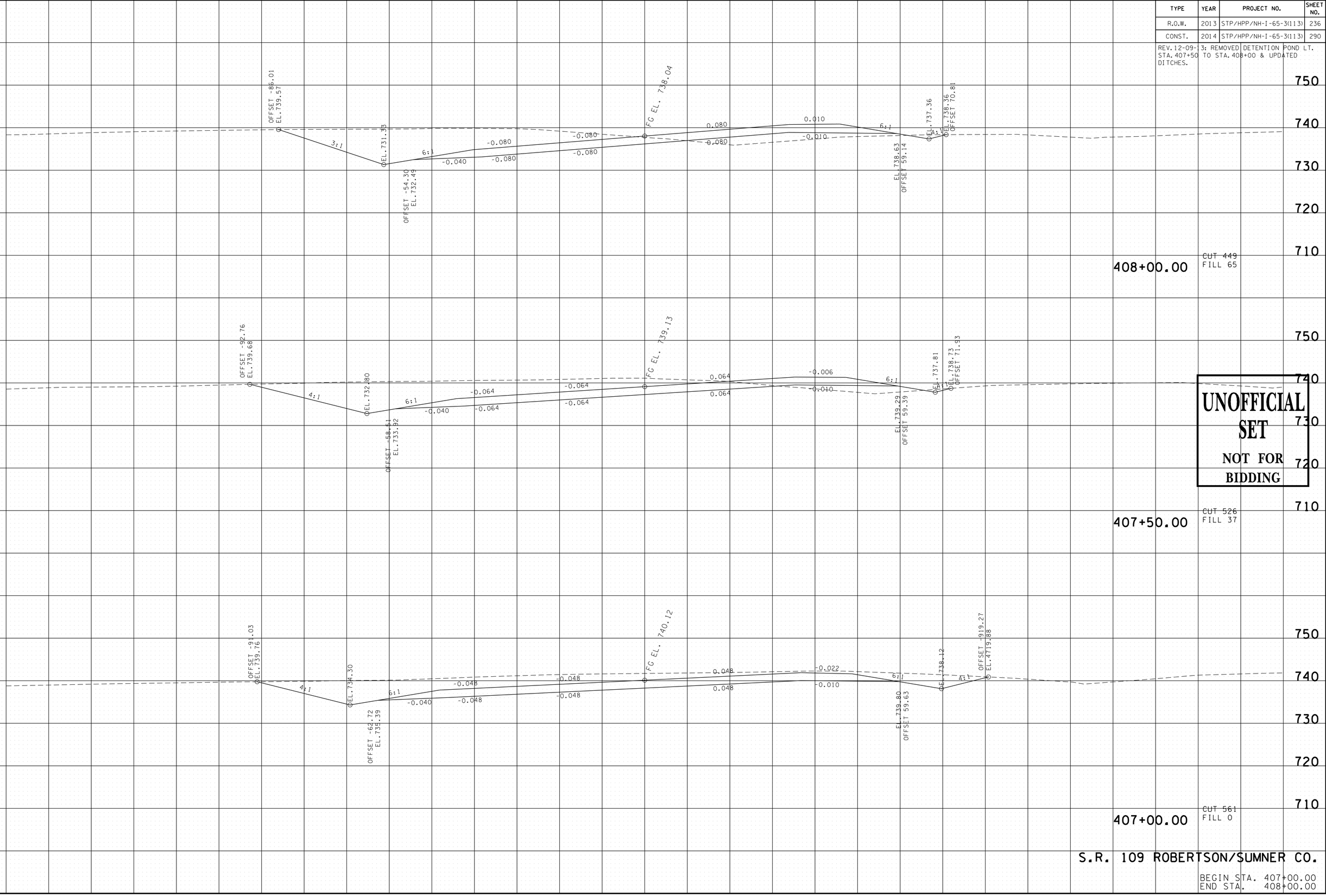
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	236
CONST.	2014	STP/HPP/NH-I-65-3(113)	290

REV. 12-09-13: REMOVED DETENTION POND LT. STA. 407+50 TO STA. 408+00 & UPDATED DITCHES.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 407+00.00
END STA. 408+00.00

9/23/2014 8:32:32 PM
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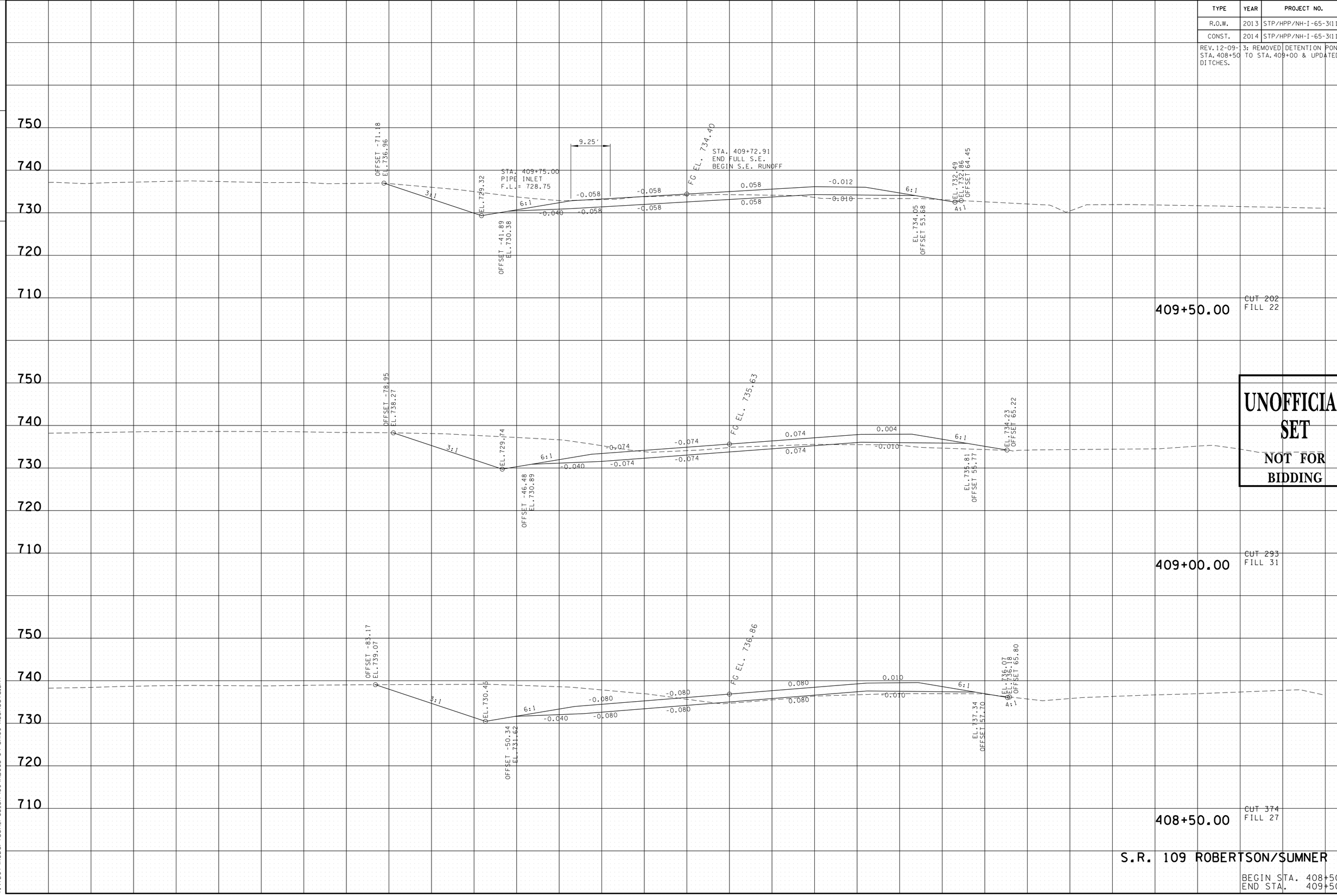
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	237
CONST.	2014	STP/HPP/NH-I-65-3(113)	291

REV. 12-09-13: REMOVED DETENTION POND LT. STA. 408+50 TO STA. 409+00 & UPDATED DITCHES.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 408+50.00
END STA. 409+50.00

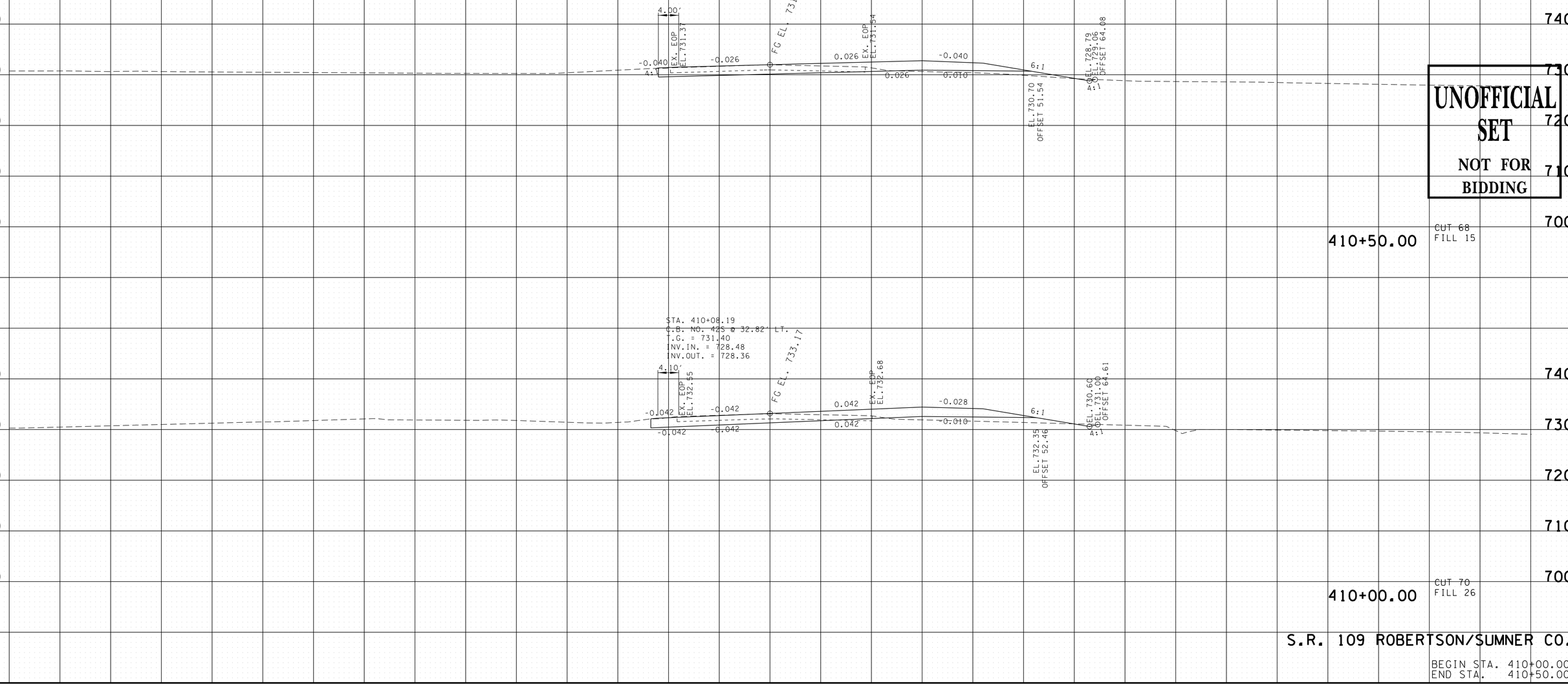
9/23/2014 8:32:35 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR(09-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	238
CONST.	2014	STP/HPP/NH-I-65-3(113)	292

REV. 12-09-13: REMOVED DITCHES LT. STA. 410+00 TO STA. 410+50.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 410+00.00
END STA. 410+50.00

9/23/2014 8:32:39 PM
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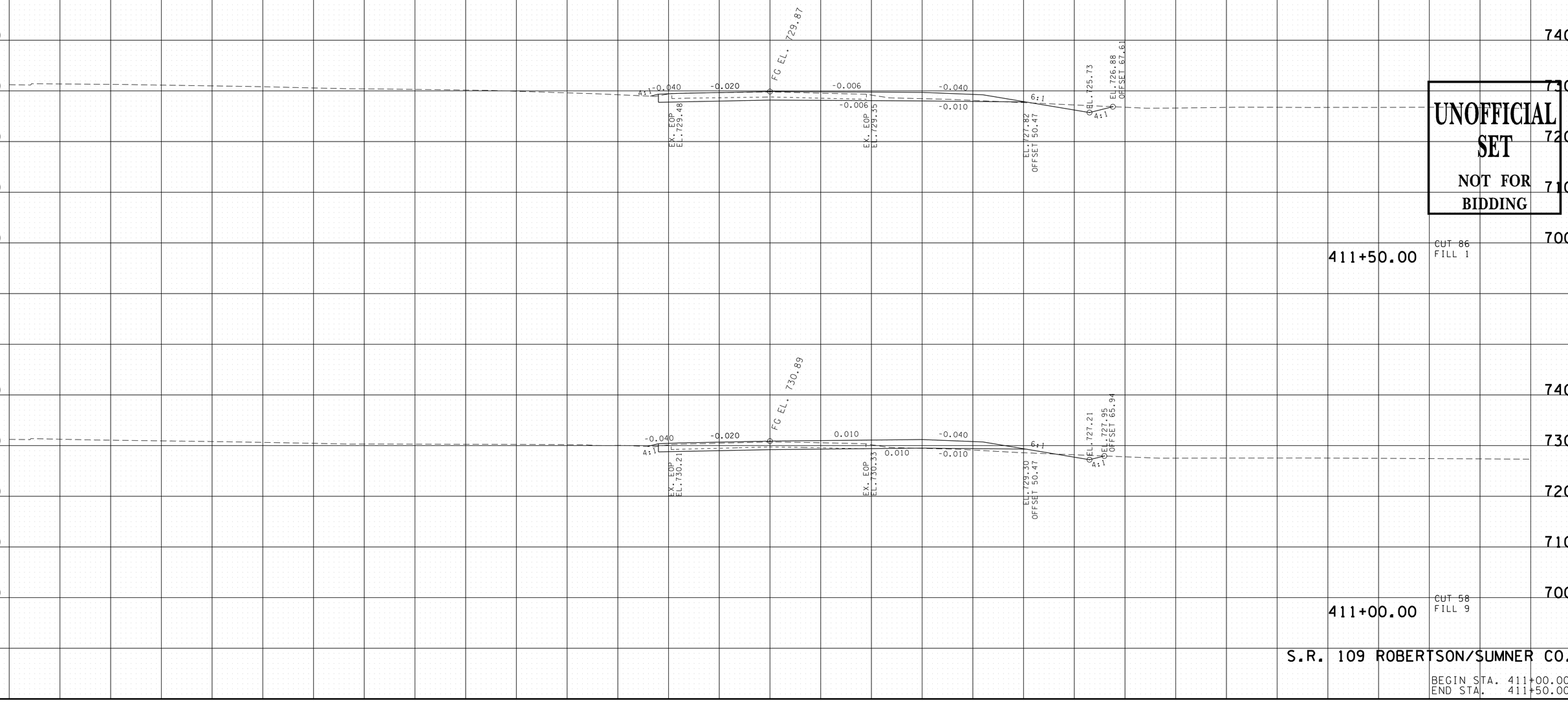
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	239
CONST.	2014	STP/HPP/NH-I-65-3(113)	293

REV. 12-09-13: REMOVED DITCHES LT. STA. 411+00 TO STA. 411+50.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 411+00.00
END STA. 411+50.00

9/23/2014 8:32:42 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	240
CONST.	2014	STP/HPP/NH-I-65-3(113)	294

REV. 12-09-13: REMOVED DITCHES LT. STA. 412+00 TO STA. 413+00. REMOVED PIPE INLET INFO., REMOVED DETENTION POND RT. STA. 412+00, & UPDATED DITCHES RT. STA. 412+00 TO STA. 413+00.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

750
740
730
720

STA. 413+32.91
END S.E. RUNOFF
BEGIN NORMAL CROWN

FG EL. 727.54
21'
4:1 -0.040 -0.020 -0.020 -0.020 -0.040 6:1
-0.020 -0.020 4:1
OFFSET -22.00 EL.725.41
EX. EOP EL.727.23
EX. EOP EL. 727.22
EL.724.81 OFFSET 51.87
EL. 722.96
EL. 724.55 OFFSET 69.33

CUT 120

413+00.00

740
730
720

FG EL. 728.20
4:1 -0.040 -0.020 -0.020 -0.040 6:1
-0.020 -0.020 4:1
OFFSET -22.00 EL.726.07
EX. EOP EL.727.86
EX. EOP EL.727.92
EL.725.47 OFFSET 51.86
EL.723.62
EL.725.76 OFFSET 71.60

CUT 124

412+50.00

740
730
720
710
700

FG EL. 728.95
4:1 -0.040 0.020 -0.020 -0.040 6:1
EX. EOP EL.728.64
EX. EOP EL.728.66
EL.726.23 OFFSET 51.87
EL.724.37
EL.726.38 OFFSET 71.05

CUT 118

412+00.00

UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 412+00.00
END STA. 413+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	241
CONST.	2014	STP/HPP/NH-I-65-3(113)	295

REV. 12-09-13: REMOVED DETENTION POND & UPDATED DITCHES RT. STA. 413+50 TO STA. 414+00. REMOVED DITCHES RT. STA. 414+50 TO STA. 415+00. ADDED PIPE INLET INFO. RT. STA. 414+00 & M.H. INFO LT. STA. 415+00.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STA. 415+30.00
M.H. NO. 3 @ 34.25' LT.
T.G. = 724.25
INV.IN. = 721.44
INV.IN. = 717.67
INV.OUT. = 717.50

415+00.00

CUT 91

OFFSET -22.00
EL.723.17

EX. EOP
EL.724.84

FG EL. 725.29

28.13'

8.00'

EX. EOP
EL.724.94

EL.722.84
OFFSET 38.86

-0.040
-0.020
-0.020
-0.020
-0.040
-0.020
-0.020
4:1
6:1

414+50.00

CUT 97

OFFSET -22.00
EL.723.69

EX. EOP
EL.725.48

FG EL. 725.82

30'

12.00'

EX. EOP
EL.725.48

EL.723.21
OFFSET 46.08

-0.040
-0.020
-0.020
-0.020
-0.040
-0.020
-0.020
4:1
6:1

UNOFFICIAL SET
NOT FOR BIDDING

414+00.00

CUT 140

OFFSET -22.00
EL.724.23

EX. EOP
EL.725.99

FG EL. 726.35

25.66'

EX. EOP
EL.725.99

EL.723.63
OFFSET 51.87

EL.721.00

EL.723.20
OFFSET 76.46

STA. 414+34.00
PIPE INLET
F.L.= 720.50

-0.040
-0.020
-0.020
-0.020
-0.040
-0.020
-0.020
4:1
6:1

413+50.00

CUT 129

OFFSET -22.00
EL.724.84

EX. EOP
EL.726.66

FG EL. 726.94

23.29'

EX. EOP
EL.726.63

EL.724.24
OFFSET 51.87

EL.722.00

EL.723.75
OFFSET 72.31

-0.040
-0.020
-0.020
-0.020
-0.040
-0.020
-0.020
4:1
6:1

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 413+50.00
END STA. 415+00.00

9/23/2014 8:32:49 PM
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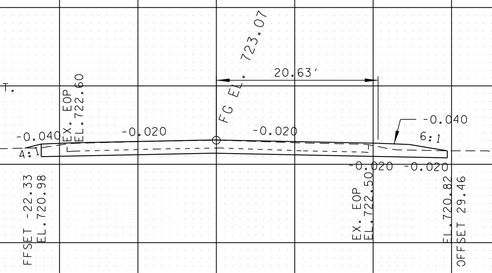
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	242
CONST.	2014	STP/HPP/NH-I-65-3(113)	296

REV. 12-09-13: REMOVED DITCHES RT. STA. 415+50 TO STA. 417+00.

FILE NO.

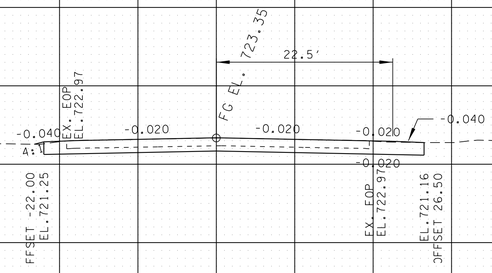
TENNESSEE D.O.T.
DESIGN DIVISION

STA. 417+29.00
C.B. NO. 42SB @ 37' LT.
T.G. = 721.40
INV.IN. = 716.07
INV.OUT. = 715.90



CUT 76

417+00.00

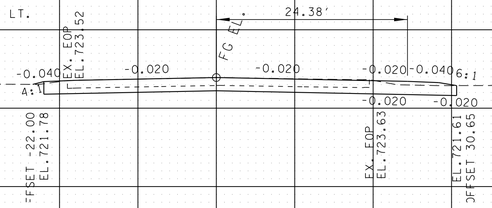


CUT 81

416+50.00

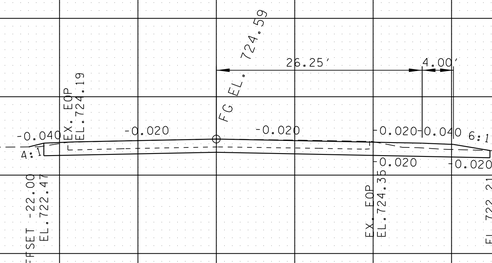
UNOFFICIAL SET
NOT FOR BIDDING

STA. 416+20.00
C.B. NO. 42SB @ 35.3' LT.
T.G. = 722.60
INV.IN. = 716.97
INV.OUT. = 716.80



CUT 84

416+00.00



415+50.00

CUT 87

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 415+50.00
END STA. 417+00.00

9/23/2014 8:32:52 PM
T:\TDOT\Robertson,I-65_SR-109\RB065-04-SR109-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	243
CONST.	2014	STP/HPP/NH-I-65-3(113)	297

REV. 12-09-13: REMOVED DITCHES RT. STA. 417+50 TO STA. 419+00.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

MATCH EXISTING
STA. 420+32.50

STA. 420+59.60
PIPE OUTLET
F.L.= 713.15

FG EL. 722.11
EX. EOP EL. 721.37
EX. EOP EL. 721.64
-0.040 -0.020 -0.020 -0.040
4:1
T 22.00 L.719.98
L.719.98 T 22.00

420+00.00
CUT 69

FG EL. 72
EX. EOP EL. 721.62
EX. EOP EL. 721.64
-0.040 -0.020 -0.020 -0.040
4:1
00 05
05 00

419+50.00
CUT 70

STA. 419+15.00
C.B. NO. 42SB @ 41' LT.
T.G. = 719.35
INV. IN. = 714.07
INV. OUT. = 713.90

FG EL. 72
EX. EOP EL. 721.80
EX. EOP EL. 721.81
-0.040 -0.020 -0.020 -0.040
4:1
30 11
11 30

419+00.00
CUT 72

FG EL. 72
EX. EOP EL. 721.89
EX. EOP EL. 721.71
-0.040 -0.020 -0.020 -0.040
4:1
30 15
15 30

418+50.00
CUT 72

STA. 418+26.00
C.B. NO. 42SB @ 37.4' LT.
T.G. = 720.15
INV. IN. = 714.82
INV. OUT. = 714.65

FG EL. 72
18'
EX. EOP EL. 722.01
EX. EOP EL. 721.80
-0.040 -0.020 -0.020 -0.040
4:1
10 9
9 10

418+00.00
CUT 70

FG EL. 722.81
18.75' 4.00'
EX. EOP EL. 722.33
-0.040 -0.020 -0.020 -0.040 -0.040
6:1
-0.020
EX. EOP EL. 722.21
OFFSET -22.00 EL. 720.71
EL. 720.65 OFFSET 25.18

417+50.00
CUT 72

UNOFFICIAL SET
NOT FOR BIDDING

S.R. 109 ROBERTSON/SUMNER CO.

BEGIN STA. 417+50.00
END STA. 420+00.00

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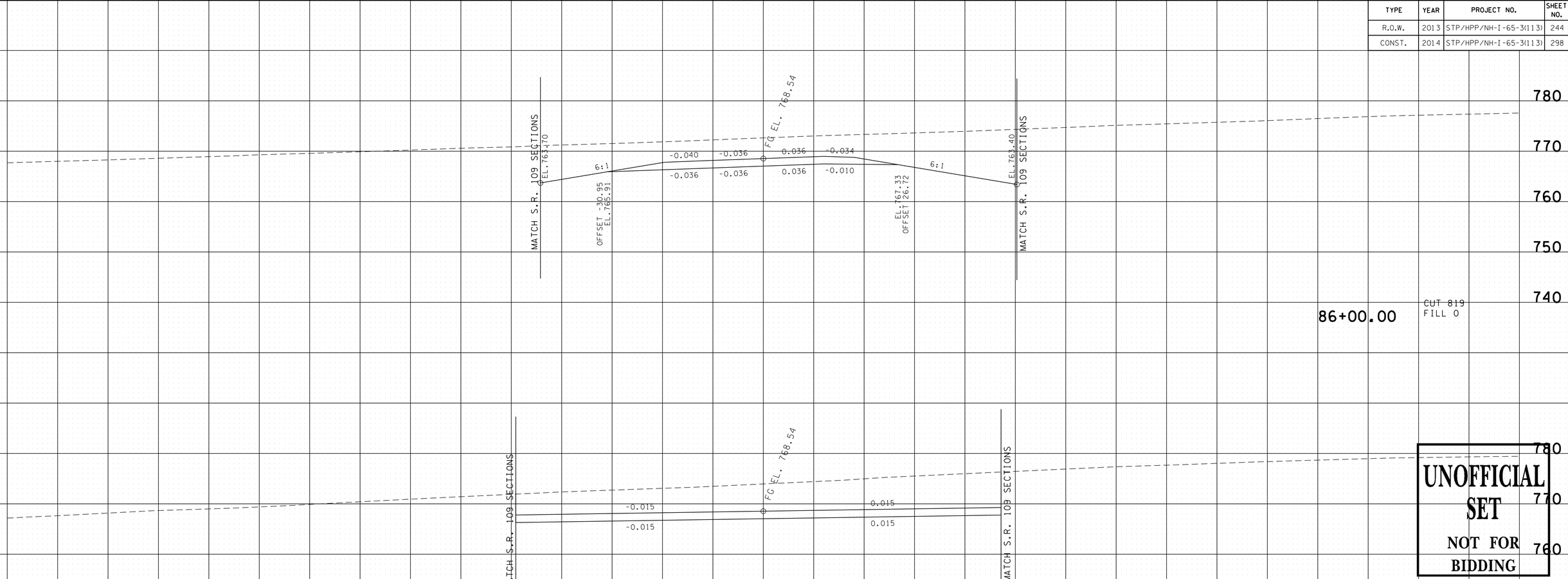
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	244
CONST.	2014	STP/HPP/NH-I-65-3(113)	298

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

OLD S.R. 109 TIE ROBERTSON/SUMNER CO.

BEGIN STA. 85+00.00
END STA. 86+00.00

9/22/2014 10:16:58 PM
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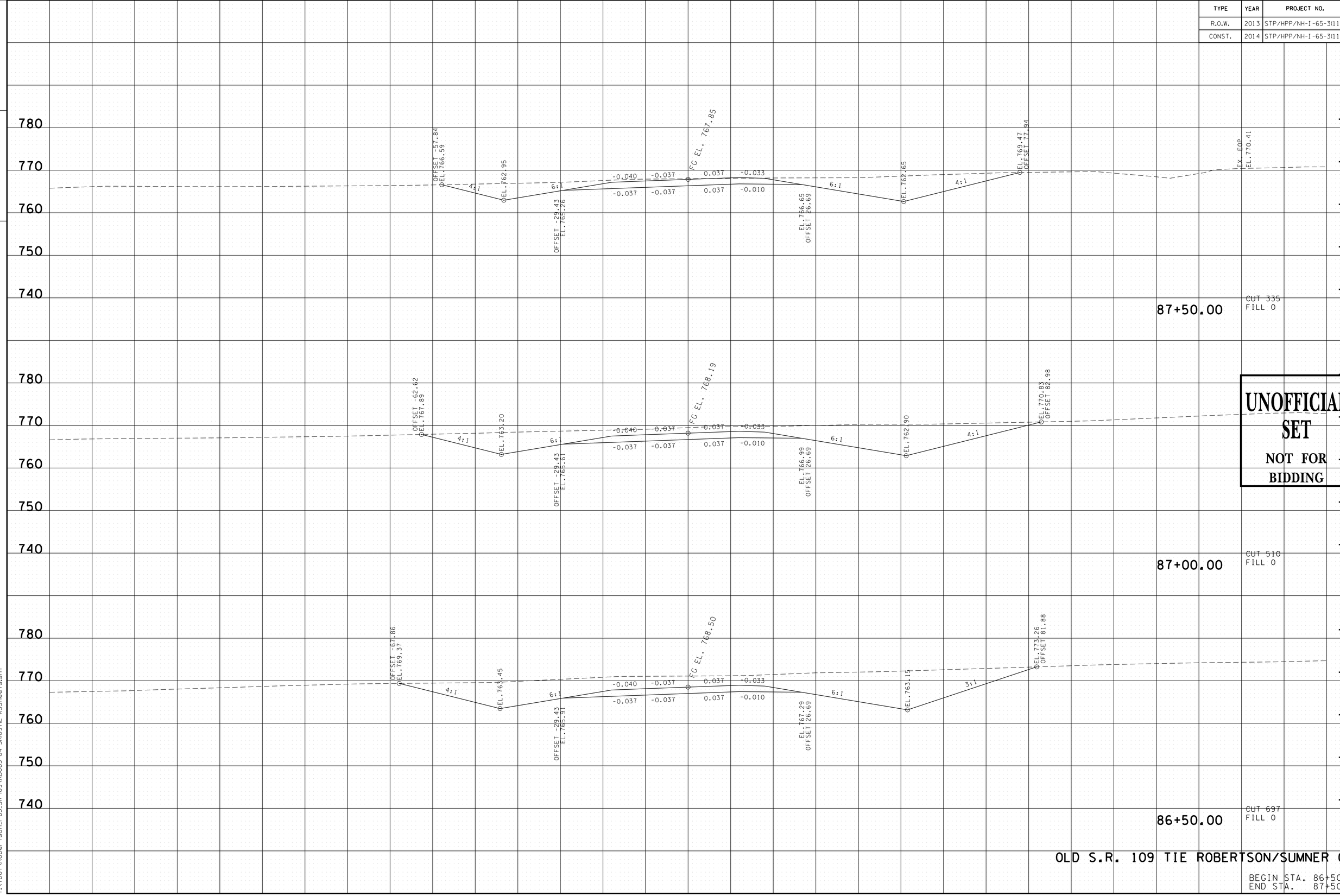
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	245
CONST.	2014	STP/HPP/NH-I-65-3(113)	299

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



OLD S.R. 109 TIE ROBERTSON/SUMNER CO.

BEGIN STA. 86+50.00
END STA. 87+50.00

9/22/2014 10:16:59 PM
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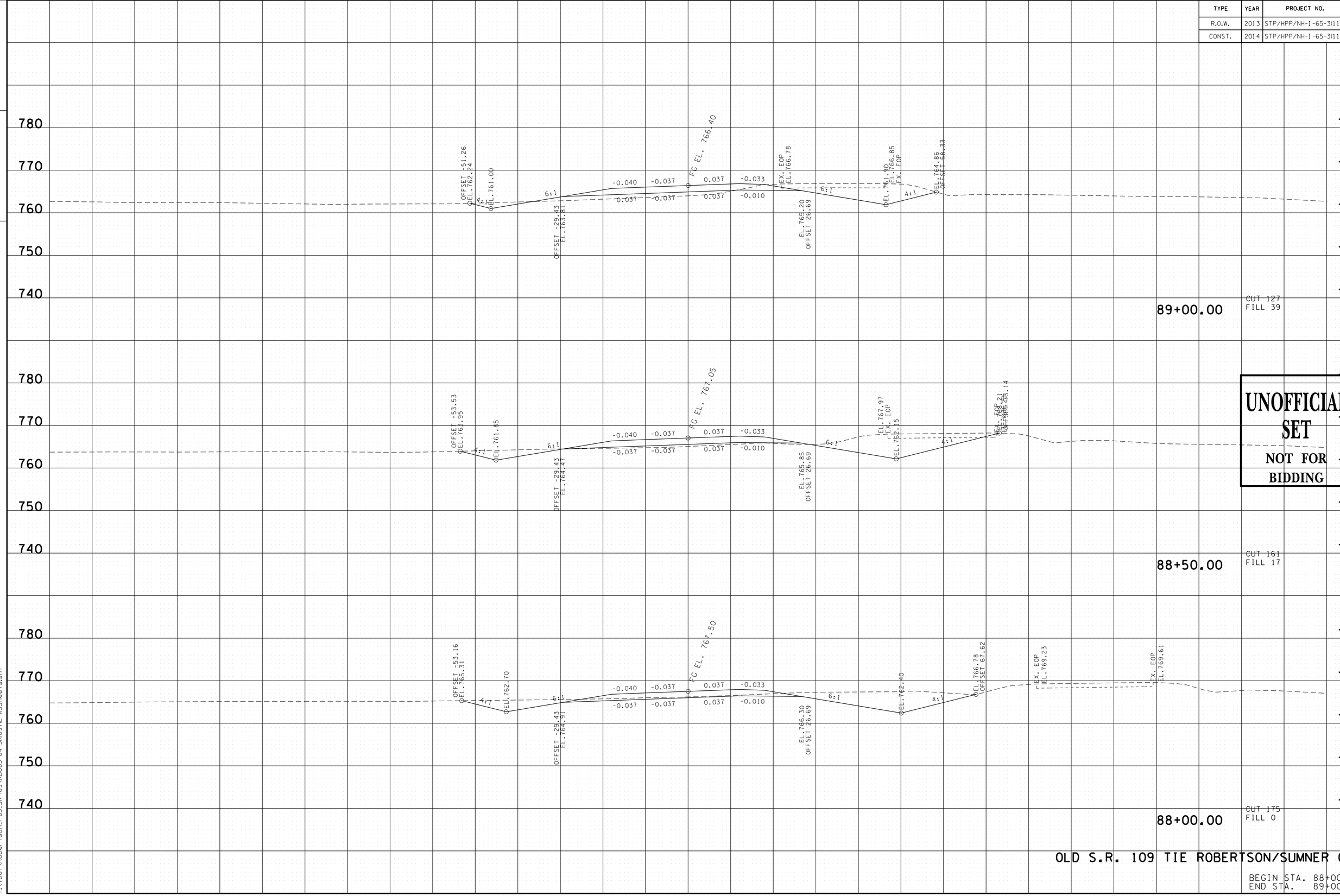
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	246
CONST.	2014	STP/HPP/NH-I-65-3(113)	300

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

OLD S.R. 109 TIE ROBERTSON/SUMNER CO.

BEGIN STA. 88+00.00
END STA. 89+00.00

9/22/2014 10:17:00 PM
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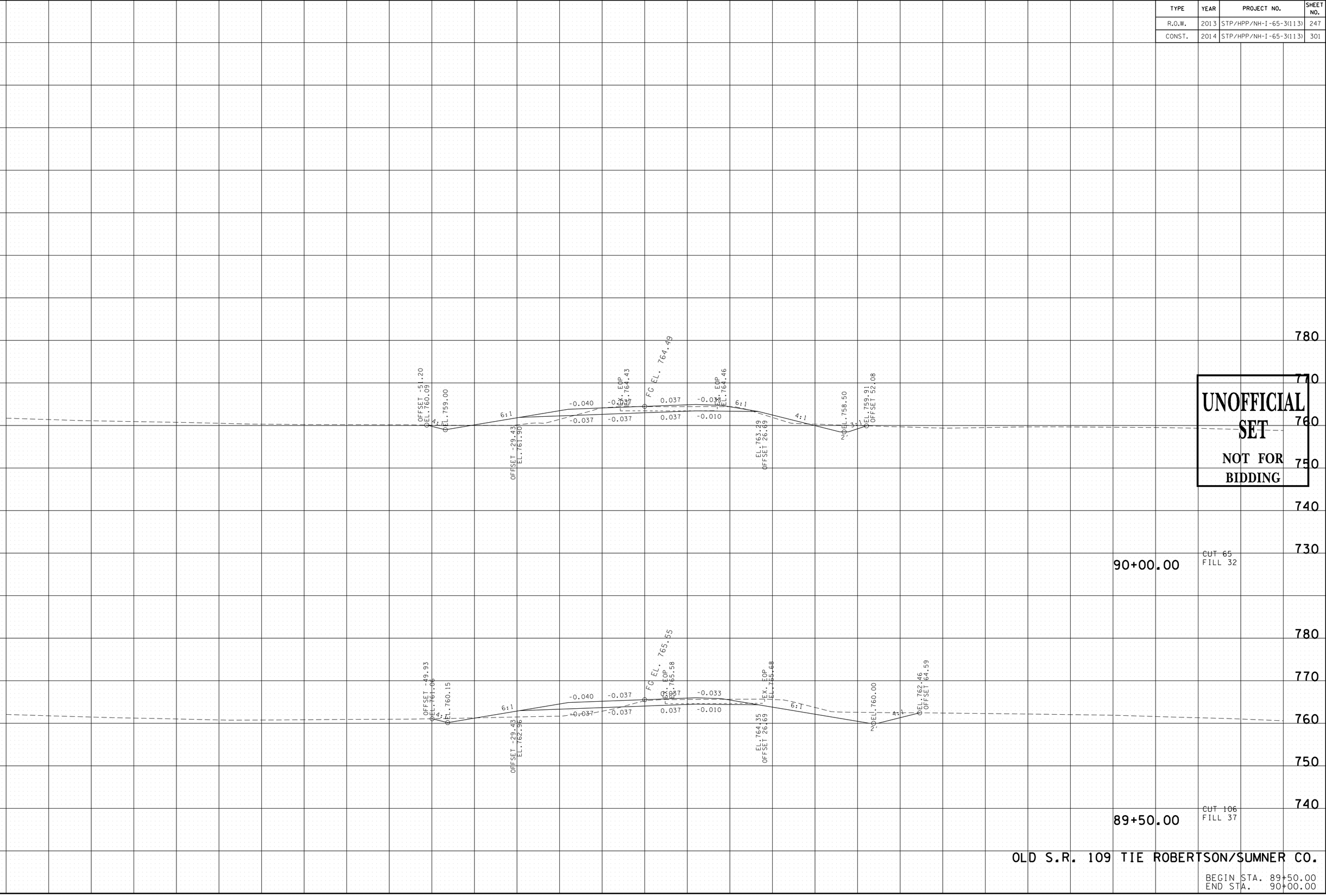
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	247
CONST.	2014	STP/HPP/NH-I-65-3(113)	301

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



90+00.00
CUT 65
FILL 32

89+50.00
CUT 106
FILL 37

UNOFFICIAL SET
NOT FOR BIDDING

OLD S.R. 109 TIE ROBERTSON/SUMNER CO.

BEGIN STA. 89+50.00
END STA. 90+00.00

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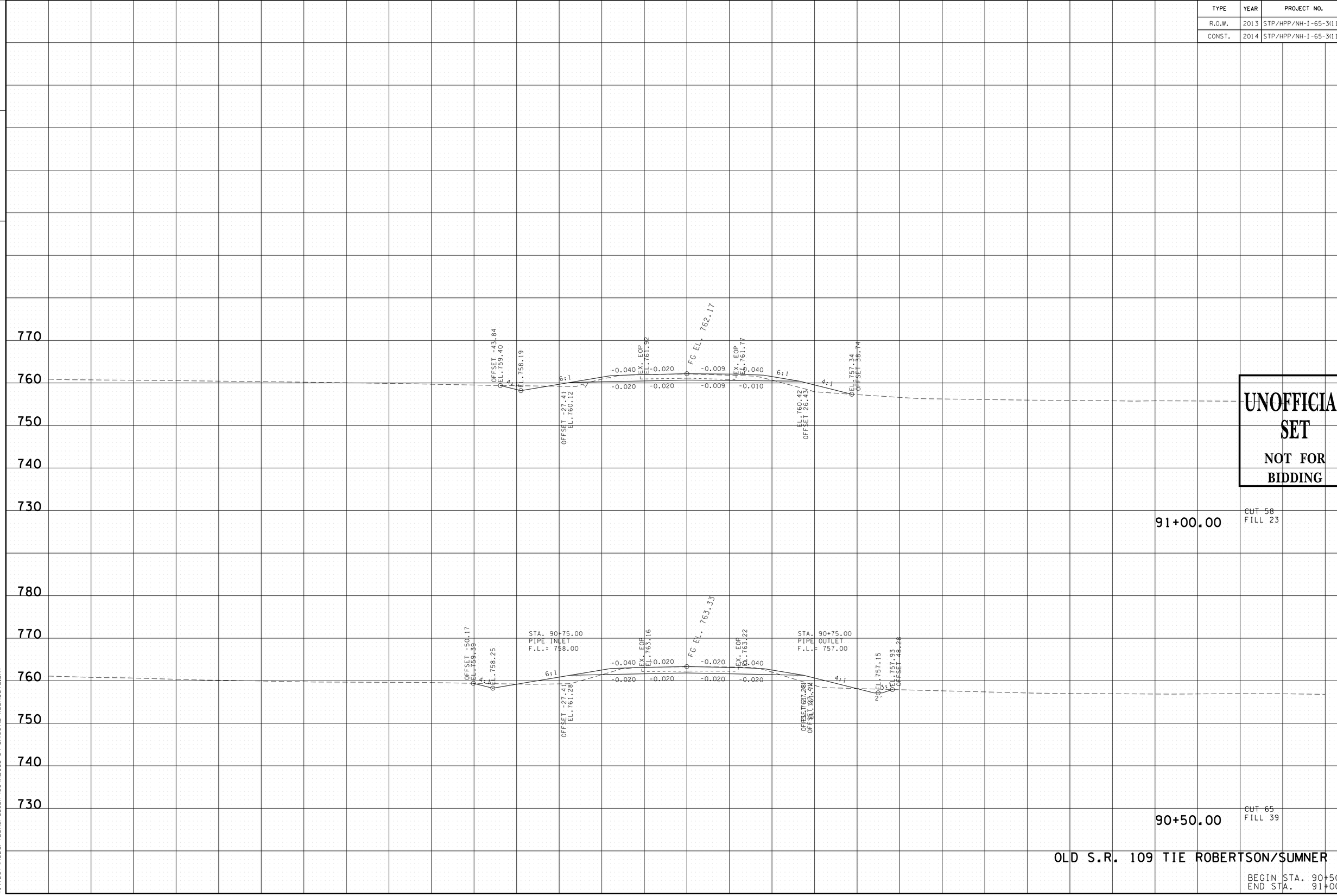
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	248
CONST.	2014	STP/HPP/NH-I-65-3(113)	302

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 58
FILL 23
91+00.00

CUT 65
FILL 39
90+50.00

OLD S.R. 109 TIE ROBERTSON/SUMNER CO.

BEGIN STA. 90+50.00
END STA. 91+00.00

9/22/2014 10:17:01 PM
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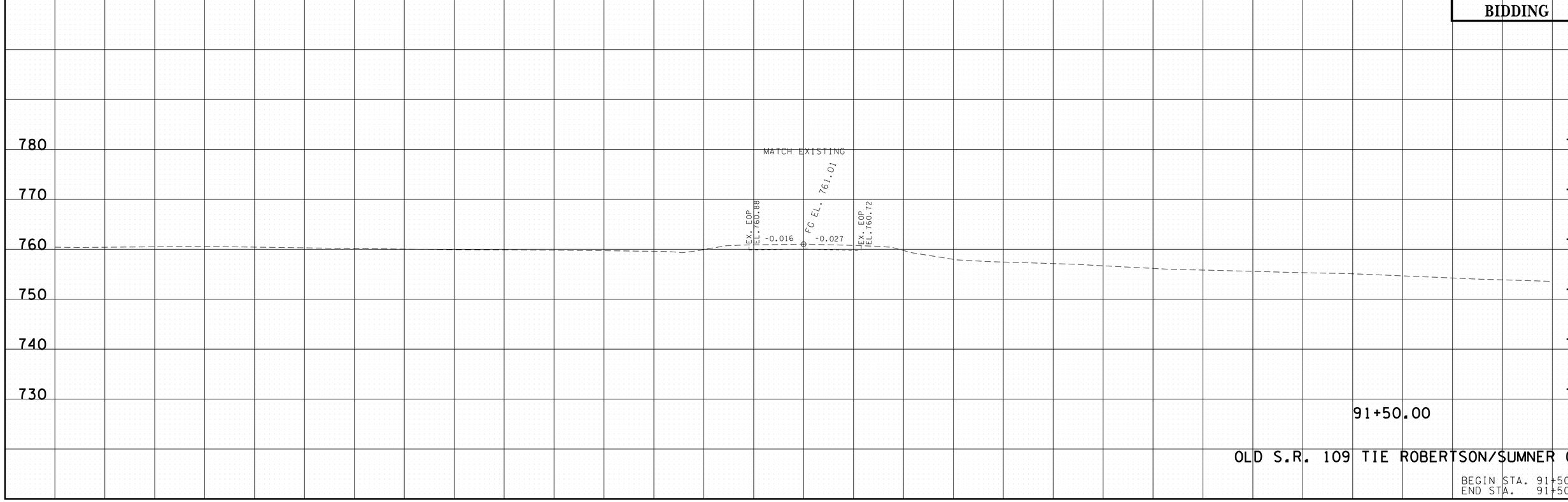
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	249
CONST.	2014	STP/HPP/NH-I-65-3(113)	303

UNOFFICIAL SET

NOT FOR BIDDING



91+50.00

OLD S.R. 109 TIE ROBERTSON/SUMNER CO.

BEGIN STA. 91+50.00
END STA. 91+50.00

9/22/2014 10:17:02 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	250
CONST.	2014	STP/HPP/NH-I-65-3(113)	304

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

UNOFFICIAL SET
NOT FOR BIDDING

TGT ROAD TIE ROBERTSON/SUMNER CO.

BEGIN STA. 10+00.00
END STA. 11+00.00

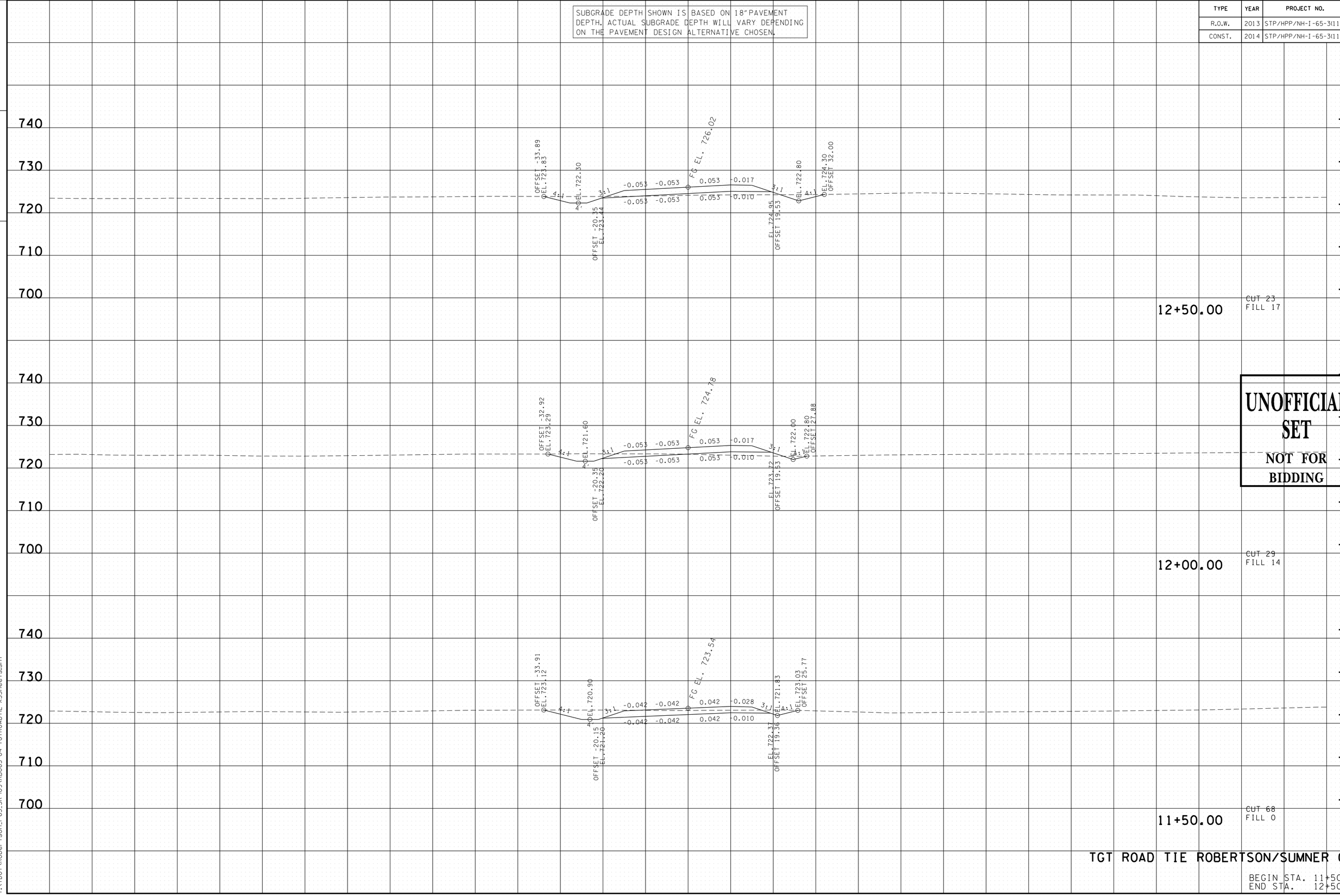
9/22/2014 10:17:03 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-TGTROADTIE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	251
CONST.	2014	STP/HPP/NH-I-65-3(113)	305

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

TGT ROAD TIE ROBERTSON/SUMNER CO.

BEGIN STA. 11+50.00
END STA. 12+50.00

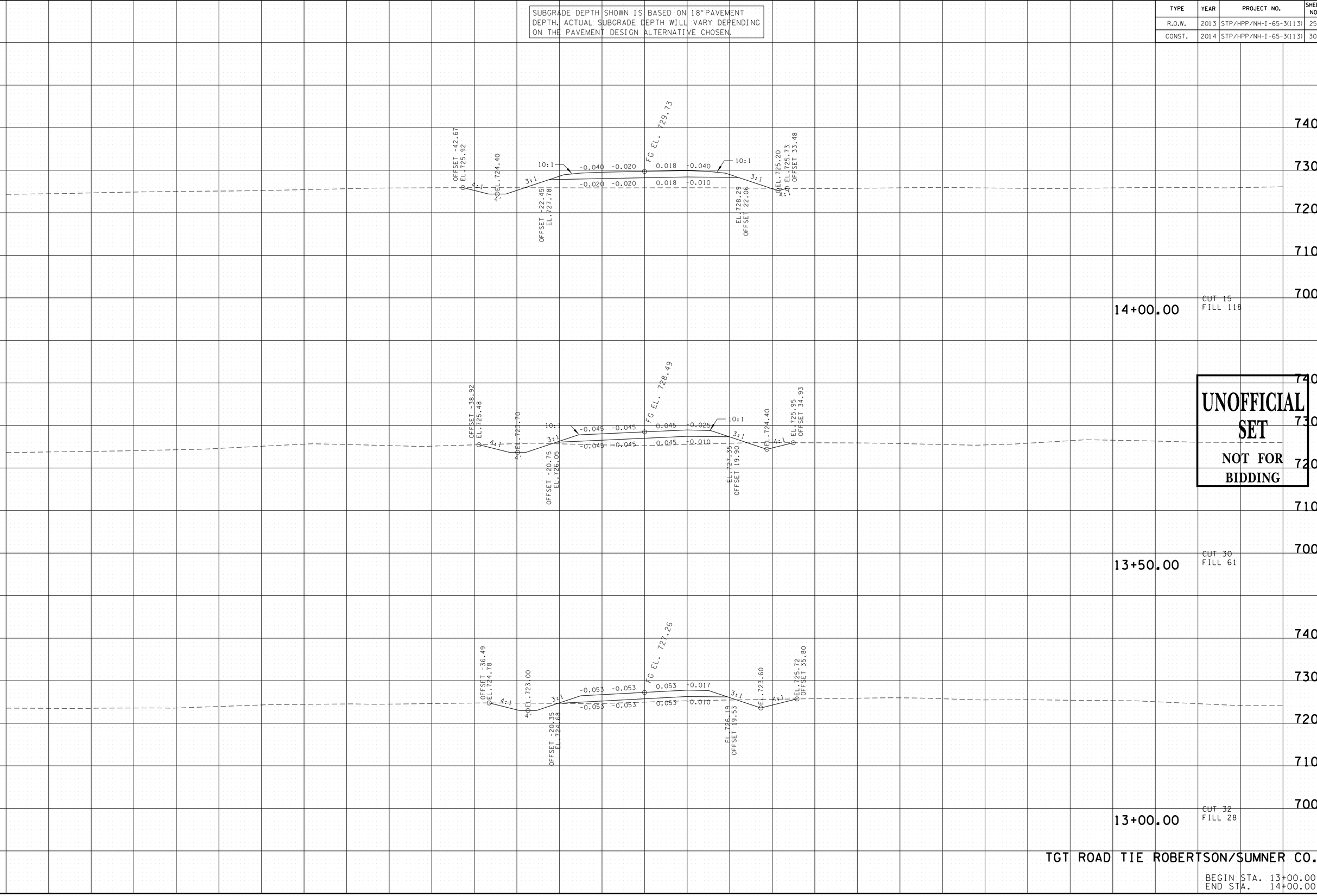
9/22/2014 10:17:04 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-TGTROADTIE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	252
CONST.	2014	STP/HPP/NH-I-65-3(113)	306

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

TGT ROAD TIE ROBERTSON/SUMNER CO.

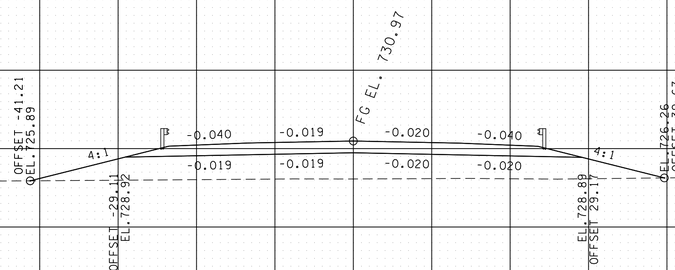
BEGIN STA. 13+00.00
END STA. 14+00.00

9/22/2014 10:17:05 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-TGTROADTIE-XSSheets.sht

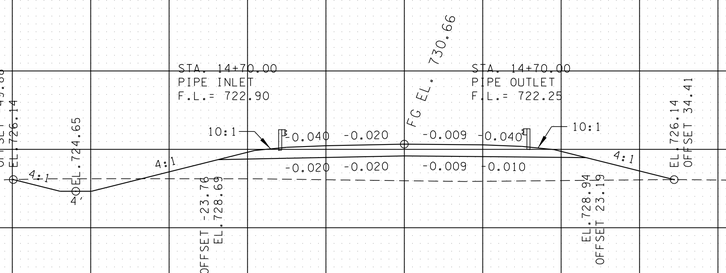
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	253
CONST.	2014	STP/HPP/NH-I-65-3(113)	307

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

SEE SR 109 SECTIONS



15+50.00



15+00.00

CUT 0
FILL 211

14+50.00

CUT 16
FILL 166

UNOFFICIAL SET
NOT FOR BIDDING

TGT ROAD TIE ROBERTSON/SUMNER CO.

BEGIN STA. 14+50.00
END STA. 15+50.00

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

9/22/2014 10:17:05 PM
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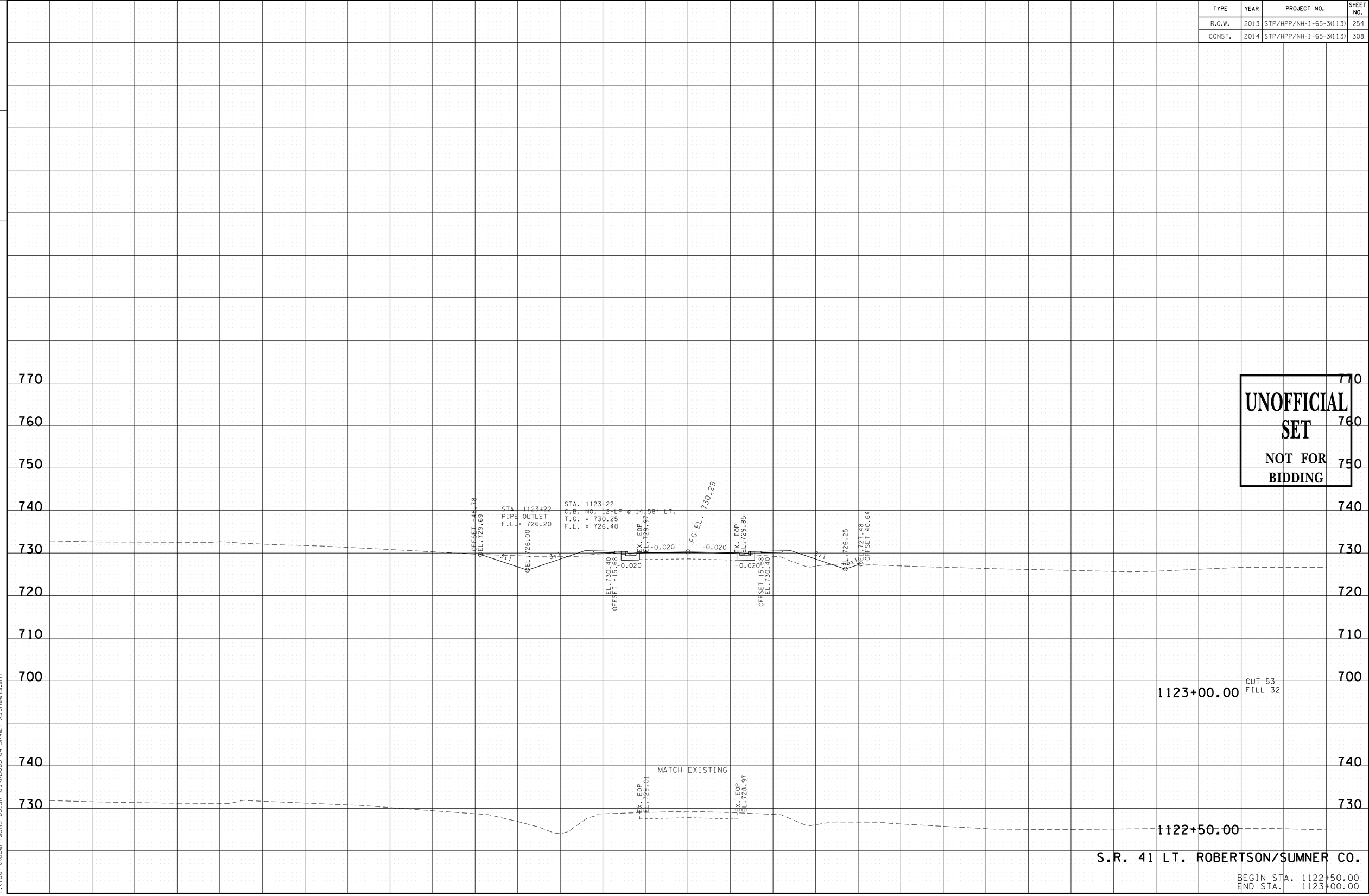
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	254
CONST.	2014	STP/HPP/NH-I-65-3(113)	308

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1122+50.00
END STA. 1123+00.00

9/22/2014 10:17:07 PM
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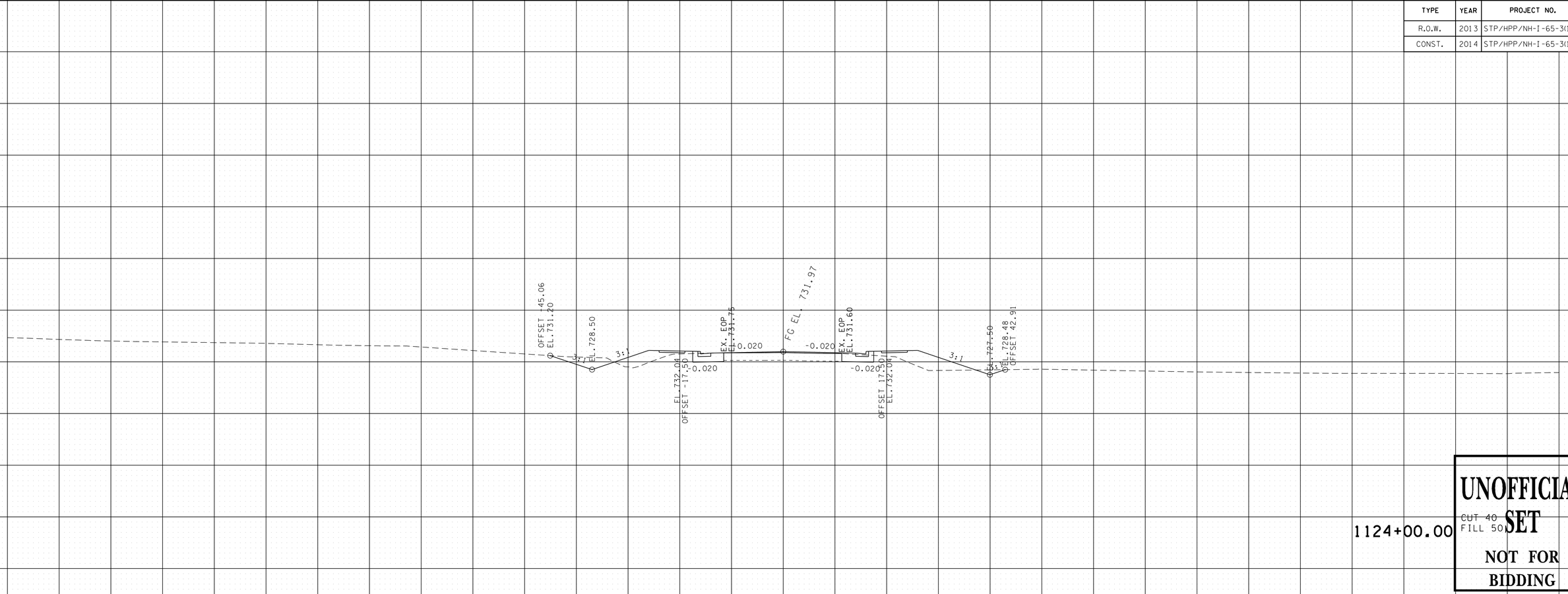
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	255
CONST.	2014	STP/HPP/NH-I-65-3(113)	309

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 LT. ROBERTSON/SUMNER CO.

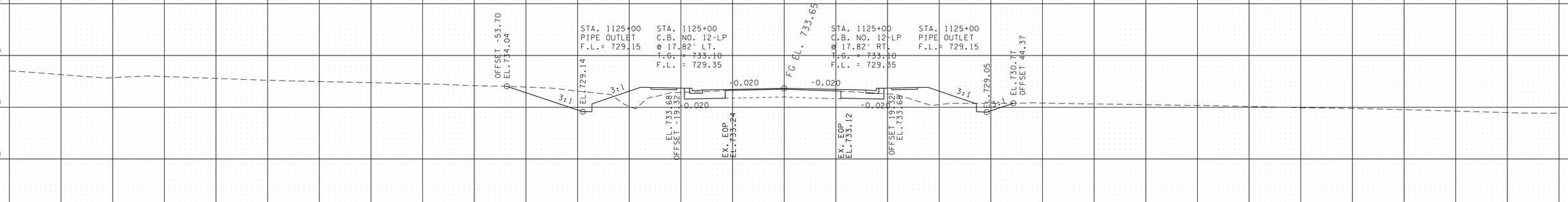
BEGIN STA. 1123+50.00
END STA. 1124+00.00

9/22/2014 10:17:08 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41LT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	256
CONST.	2014	STP/HPP/NH-I-65-3(113)	310

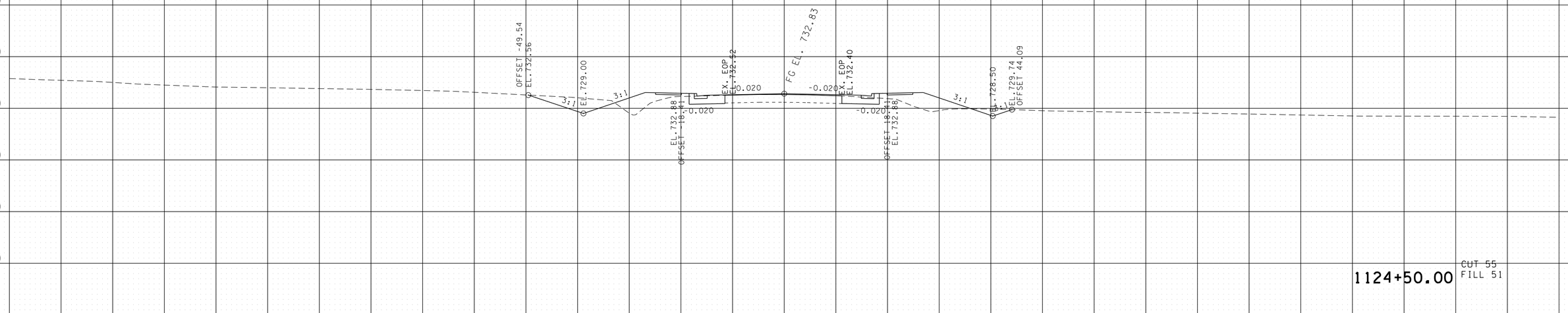
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1125+00.00 CUT 75 FILL 53

UNOFFICIAL SET
NOT FOR BIDDING



1124+50.00 CUT 55 FILL 51

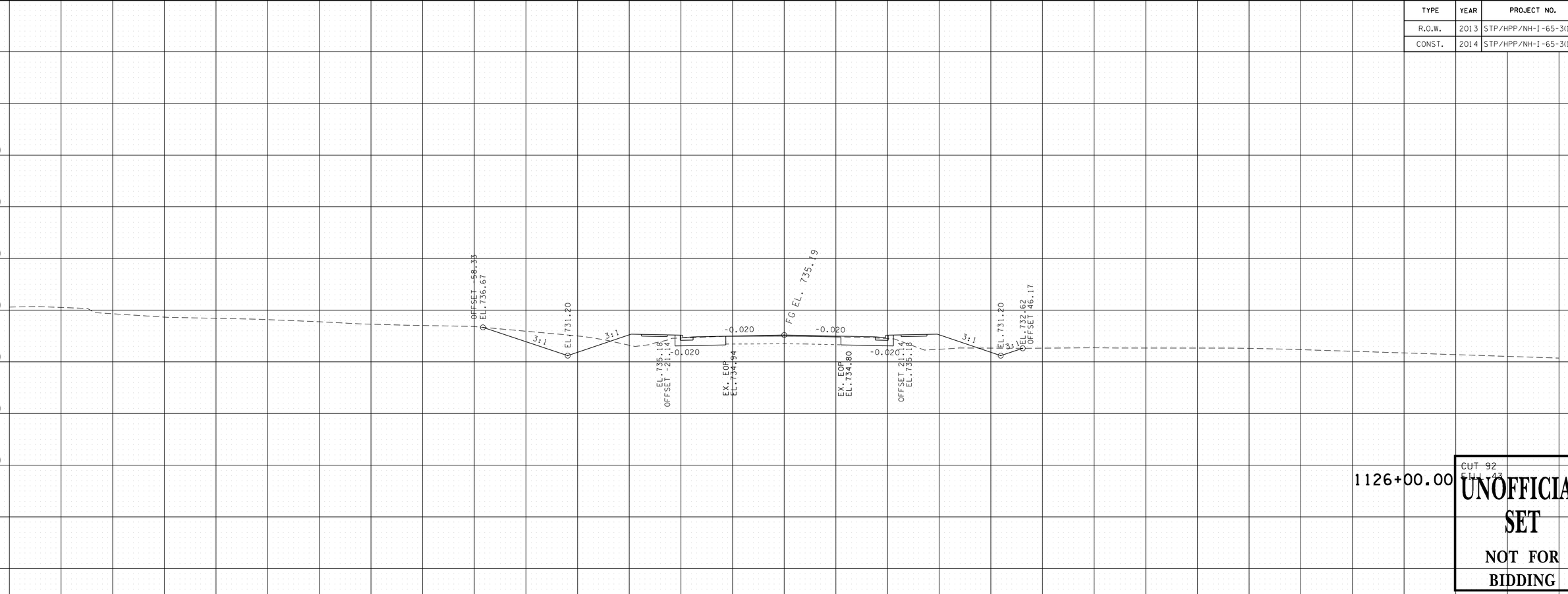
S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1124+50.00
END STA. 1125+00.00

9/22/2014 10:17:08 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41LT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	257
CONST.	2014	STP/HPP/NH-I-65-3(113)	311

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1125+50.00
END STA. 1126+00.00

9/22/2014 10:17:09 PM
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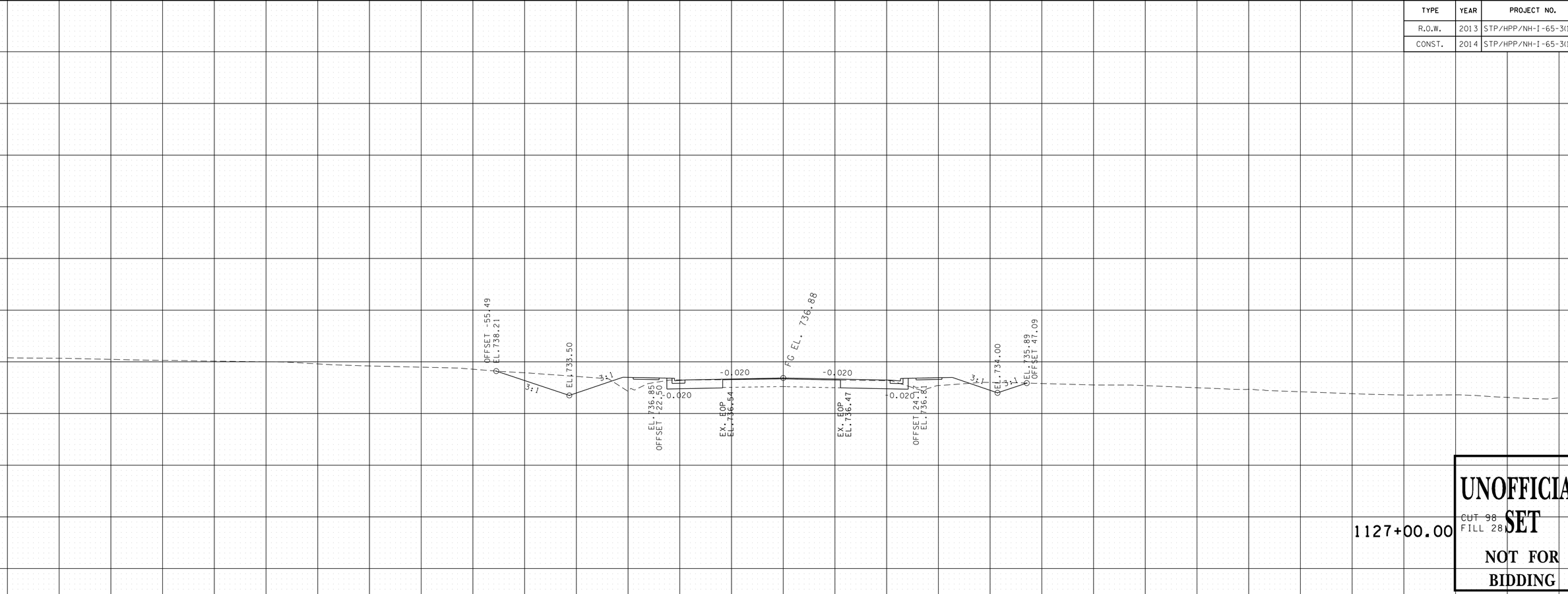
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	258
CONST.	2014	STP/HPP/NH-I-65-3(113)	312

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1126+50.00
END STA. 1127+00.00

9/22/2014 10:17:10 PM
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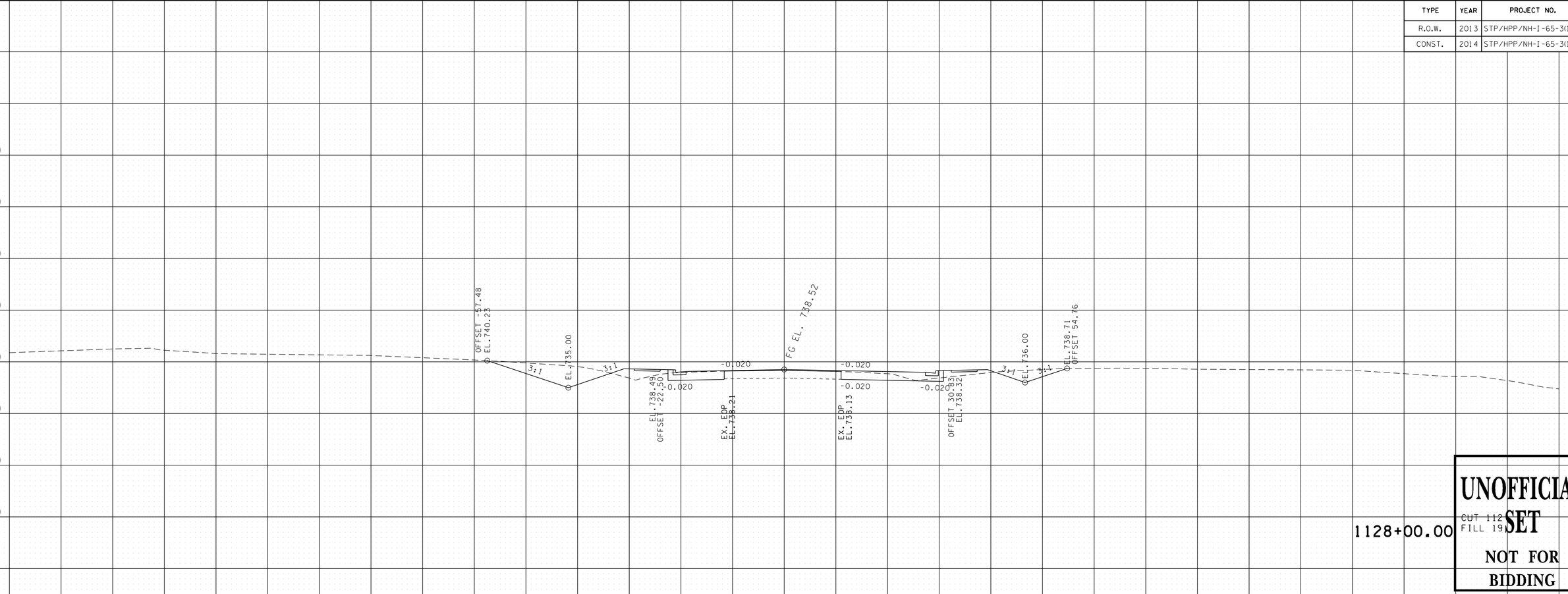
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	259
CONST.	2014	STP/HPP/NH-I-65-3(113)	313

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 LT. ROBERTSON/SUMNER CO.

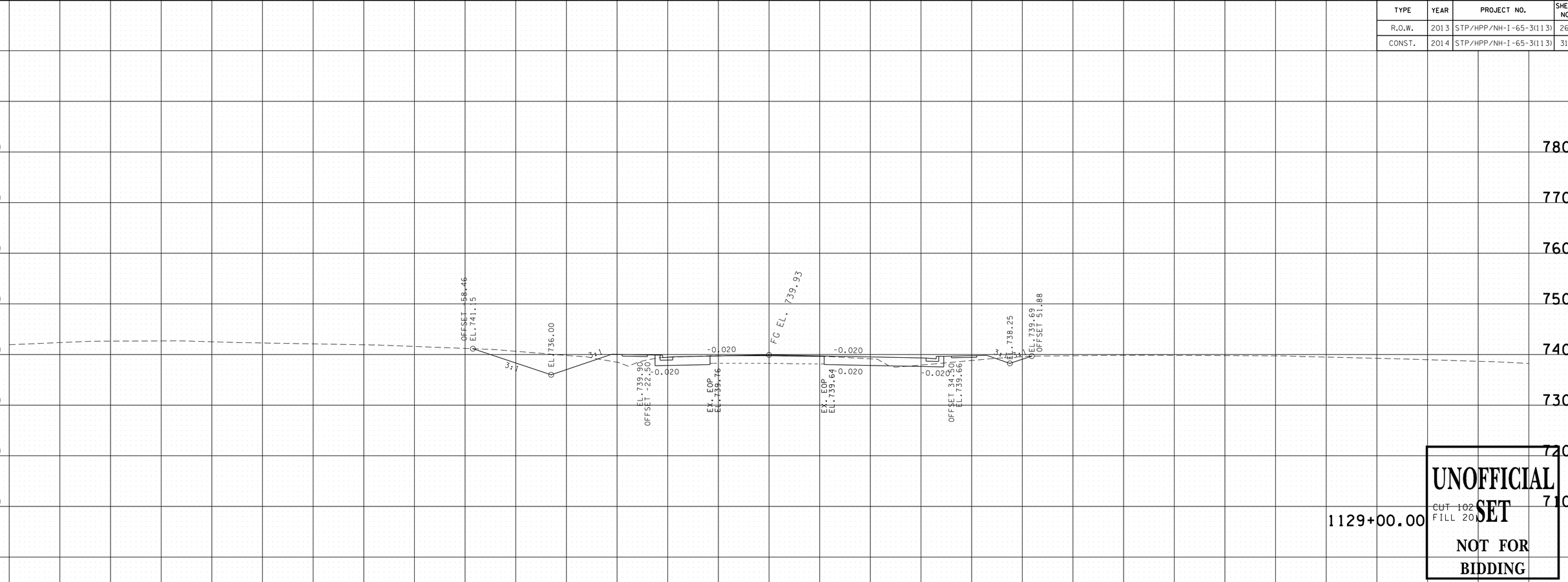
BEGIN STA. 1127+50.00
END STA. 1128+00.00

9/22/2014 10:17:11 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41LT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	260
CONST.	2014	STP/HPP/NH-I-65-3(113)	314

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1128+50.00
END STA. 1129+00.00

9/22/2014 10:17:12 PM
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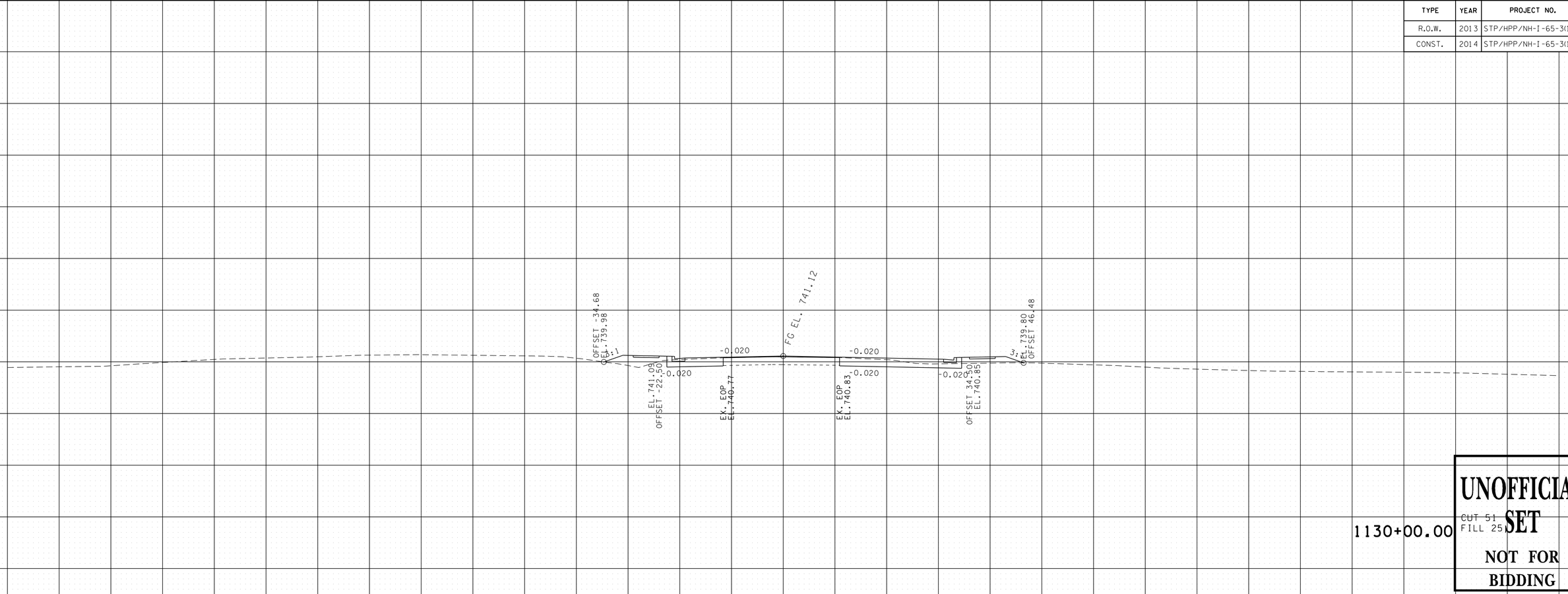
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	261
CONST.	2014	STP/HPP/NH-I-65-3(113)	315

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1129+50.00
END STA. 1130+00.00

9/22/2014 10:17:13 PM
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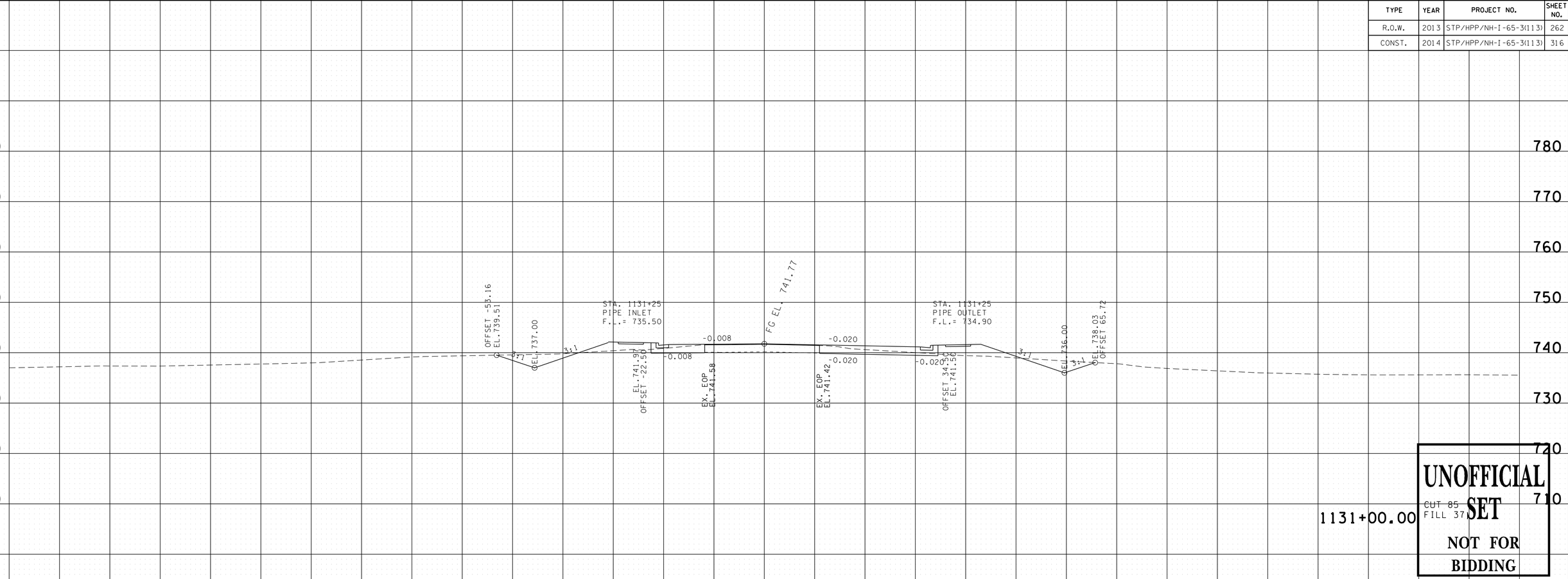
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	262
CONST.	2014	STP/HPP/NH-I-65-3(113)	316

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 LT. ROBERTSON/SUMNER CO.

BEGIN STA. 1130+50.00
END STA. 1131+00.00

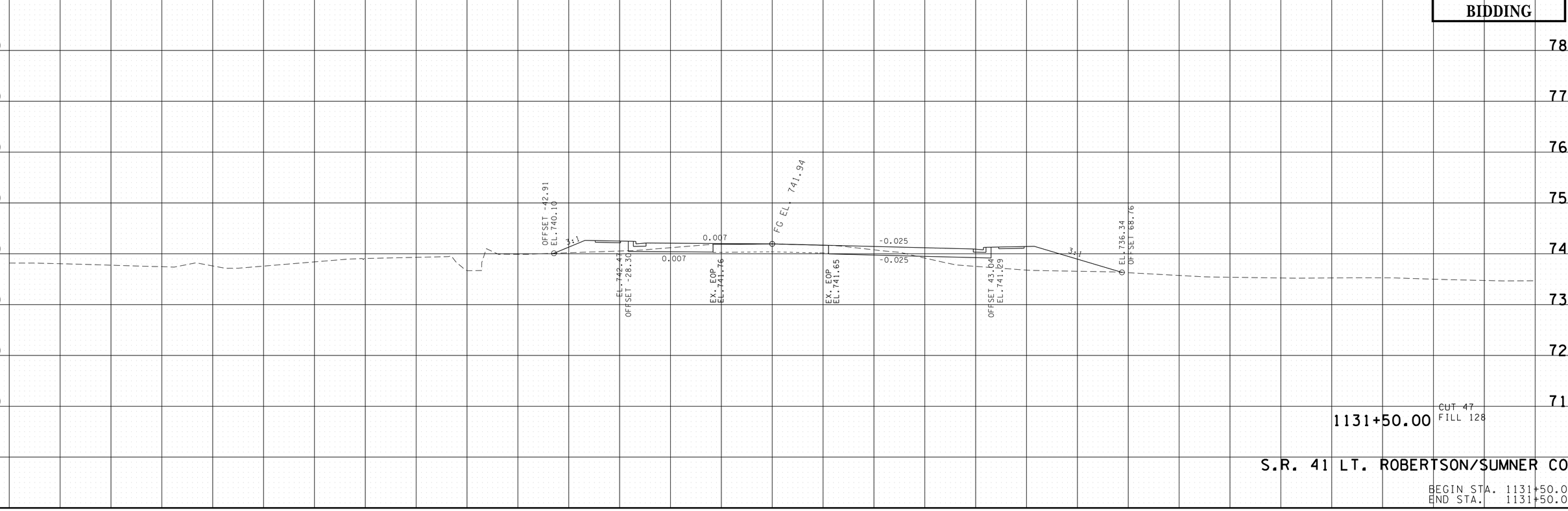
9/22/2014 10:17:14 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41LT-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	263
CONST.	2014	STP/HPP/NH-I-65-3(113)	317

UNOFFICIAL SET
NOT FOR BIDDING



1131+50.00 CUT 47 FILL 128

S.R. 41 LT. ROBERTSON/SUMNER CO.

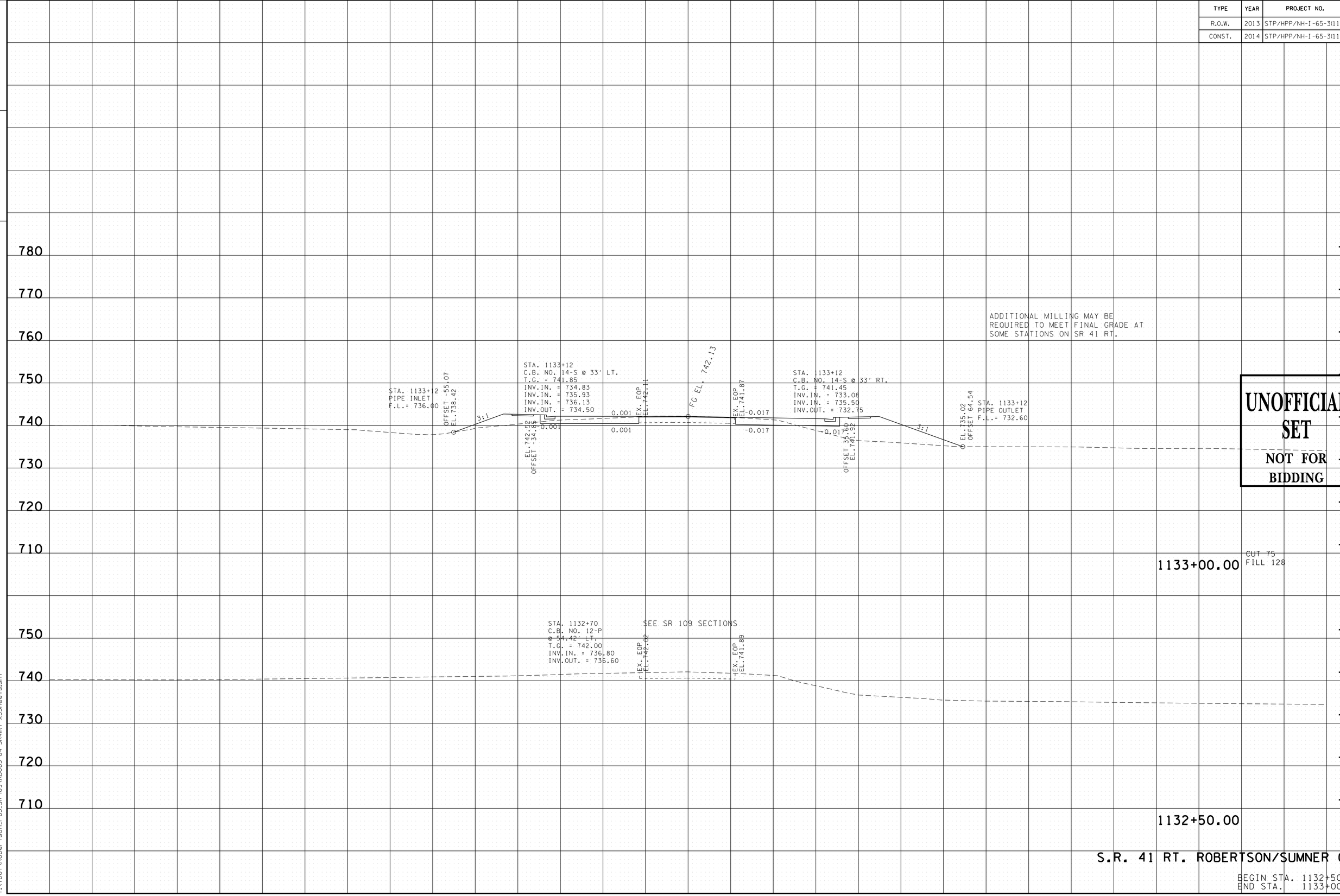
BEGIN STA. 1131+50.00
END STA. 1131+50.00

9/22/2014 10:17:14 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41LT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	264
CONST.	2014	STP/HPP/NH-I-65-3(113)	318

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

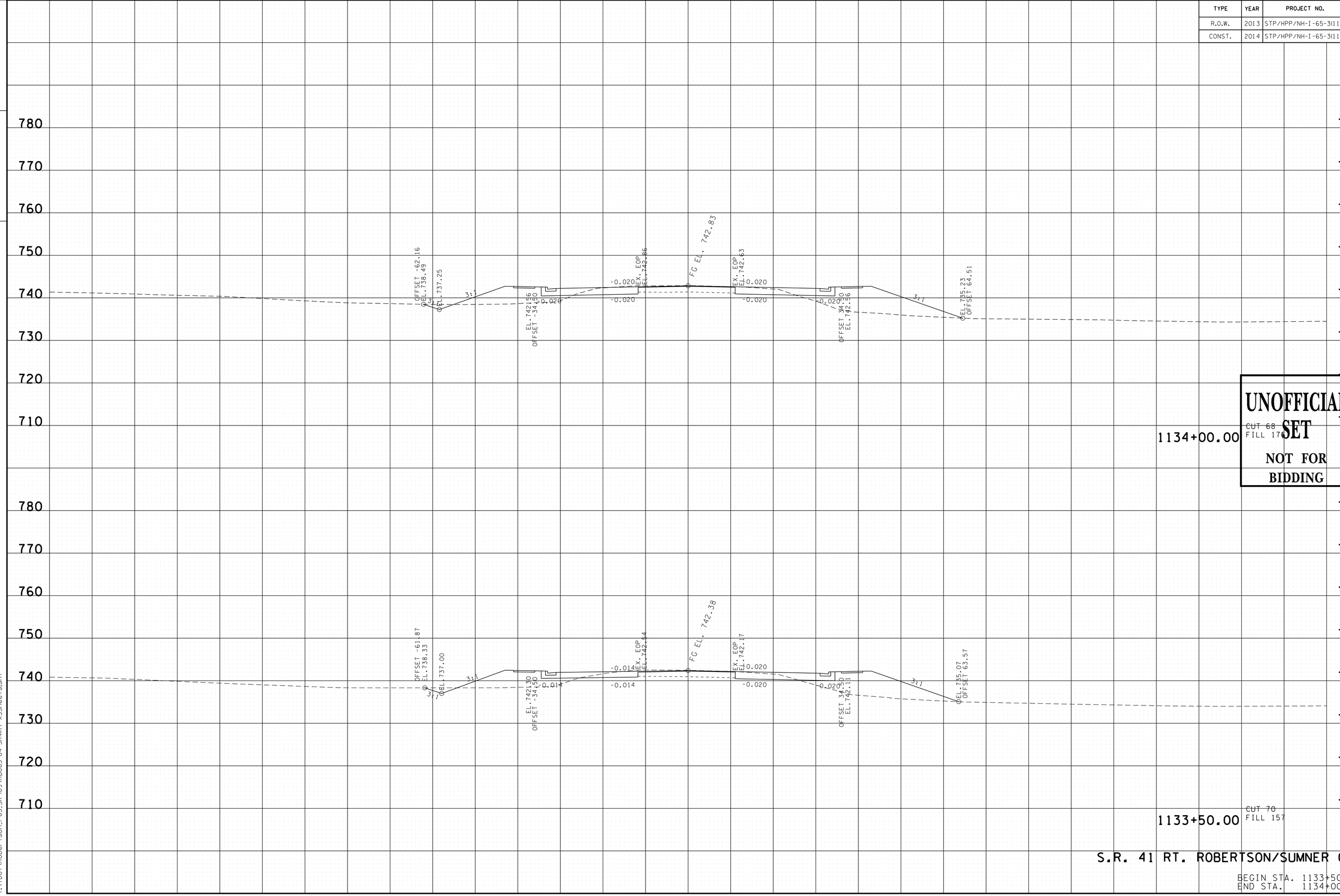
S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1132+50.00
END STA. 1133+00.00

9/23/2014 9:45:08 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	265
CONST.	2014	STP/HPP/NH-I-65-3(113)	319

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1133+50.00
END STA. 1134+00.00

9/23/2014 9:45:09 PM
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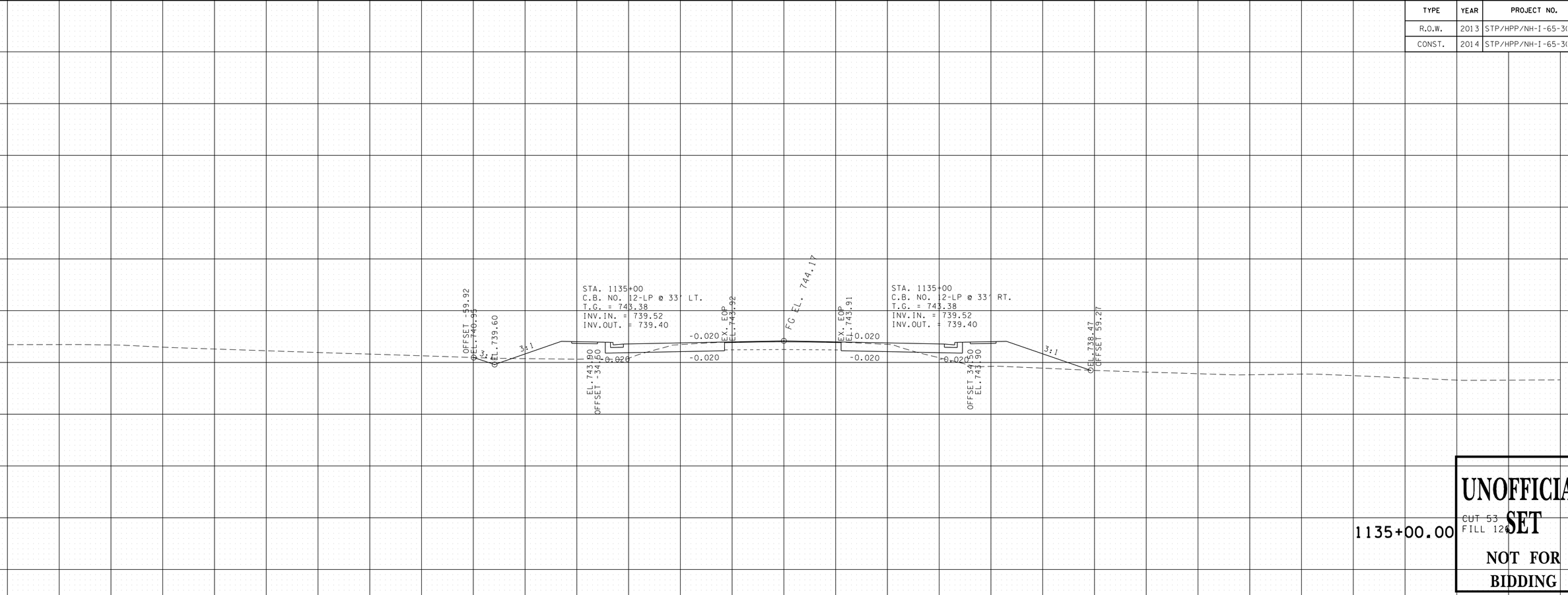
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	266
CONST.	2014	STP/HPP/NH-I-65-3(113)	320

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1134+50.00
END STA. 1135+00.00

9/23/2014 9:45:10 PM
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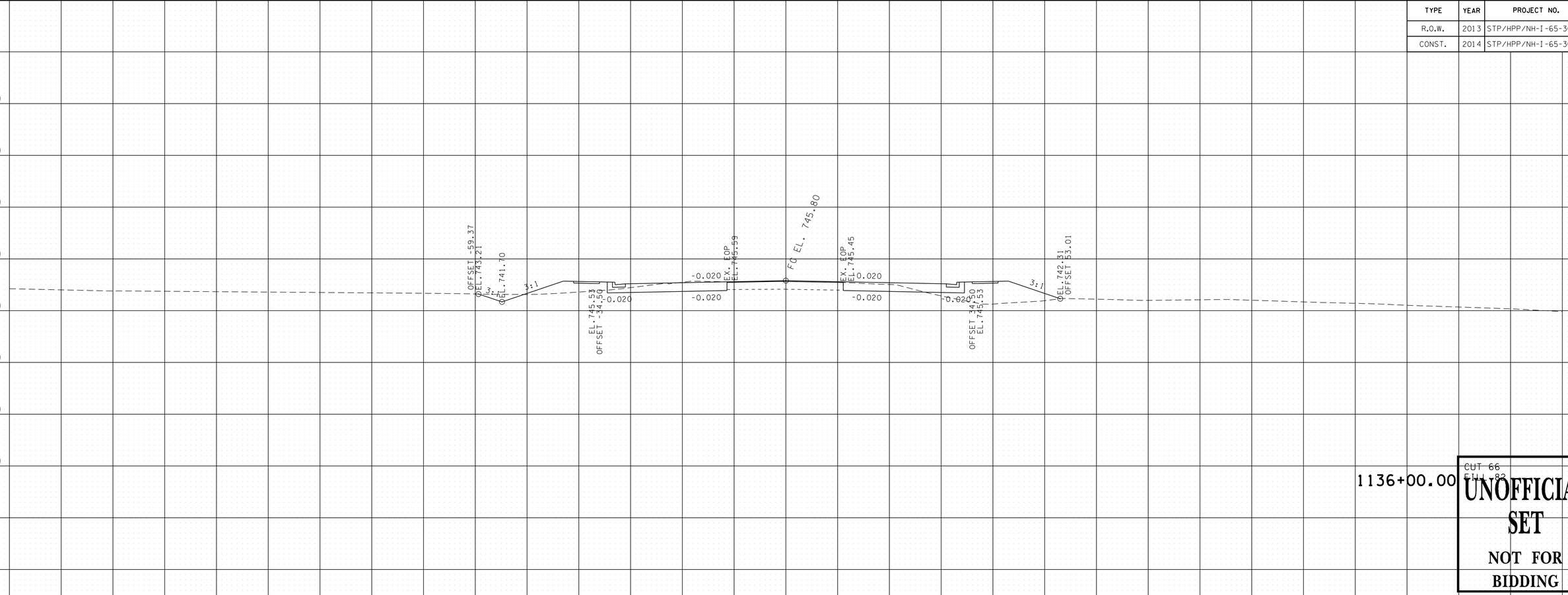
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	267
CONST.	2014	STP/HPP/NH-I-65-3(113)	321

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

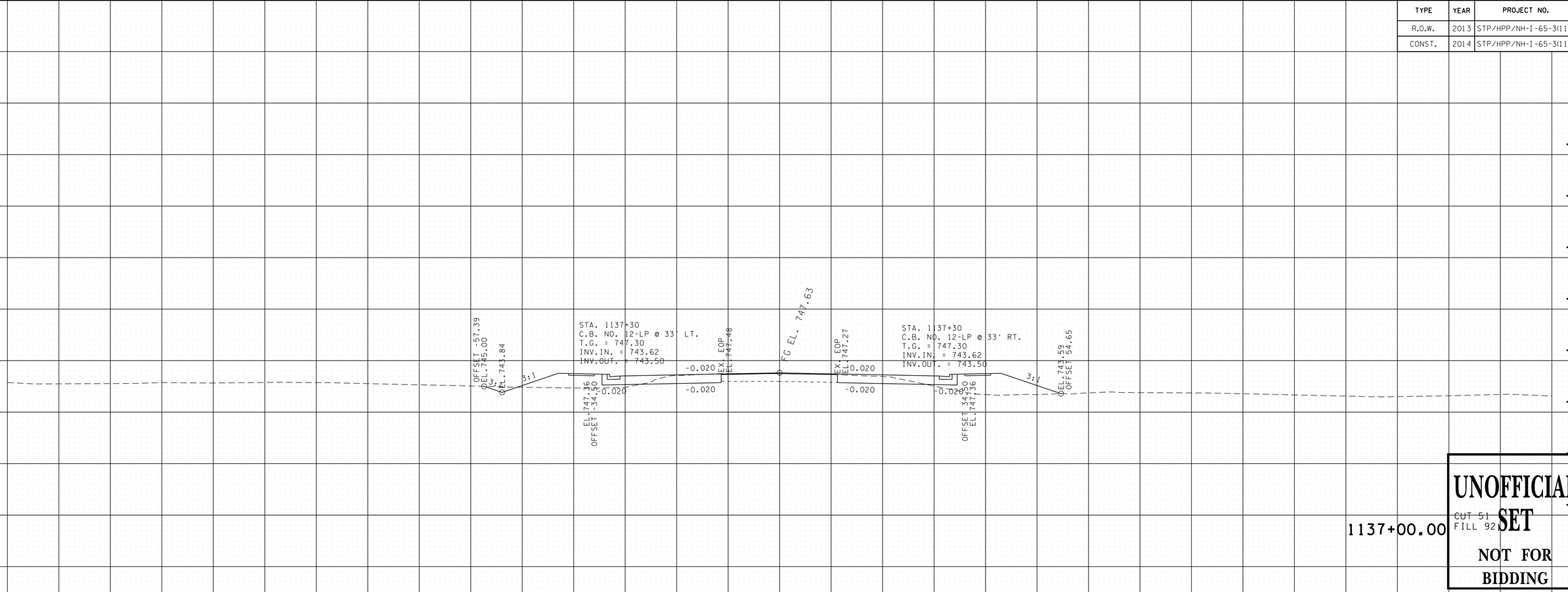
S.R. 41 RT. ROBERTSON/SUMNER CO.

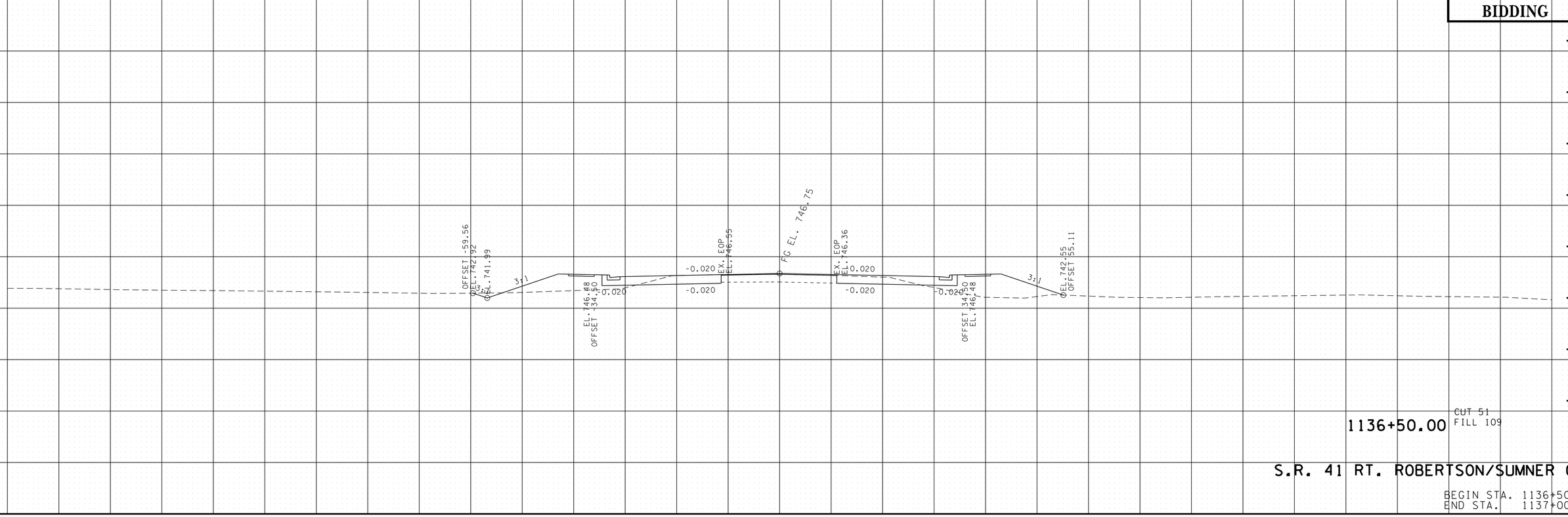
BEGIN STA. 1135+50.00
END STA. 1136+00.00

9/23/2014 9:45:11 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	268
CONST.	2014	STP/HPP/NH-I-65-3(113)	322

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1136+50.00
END STA. 1137+00.00

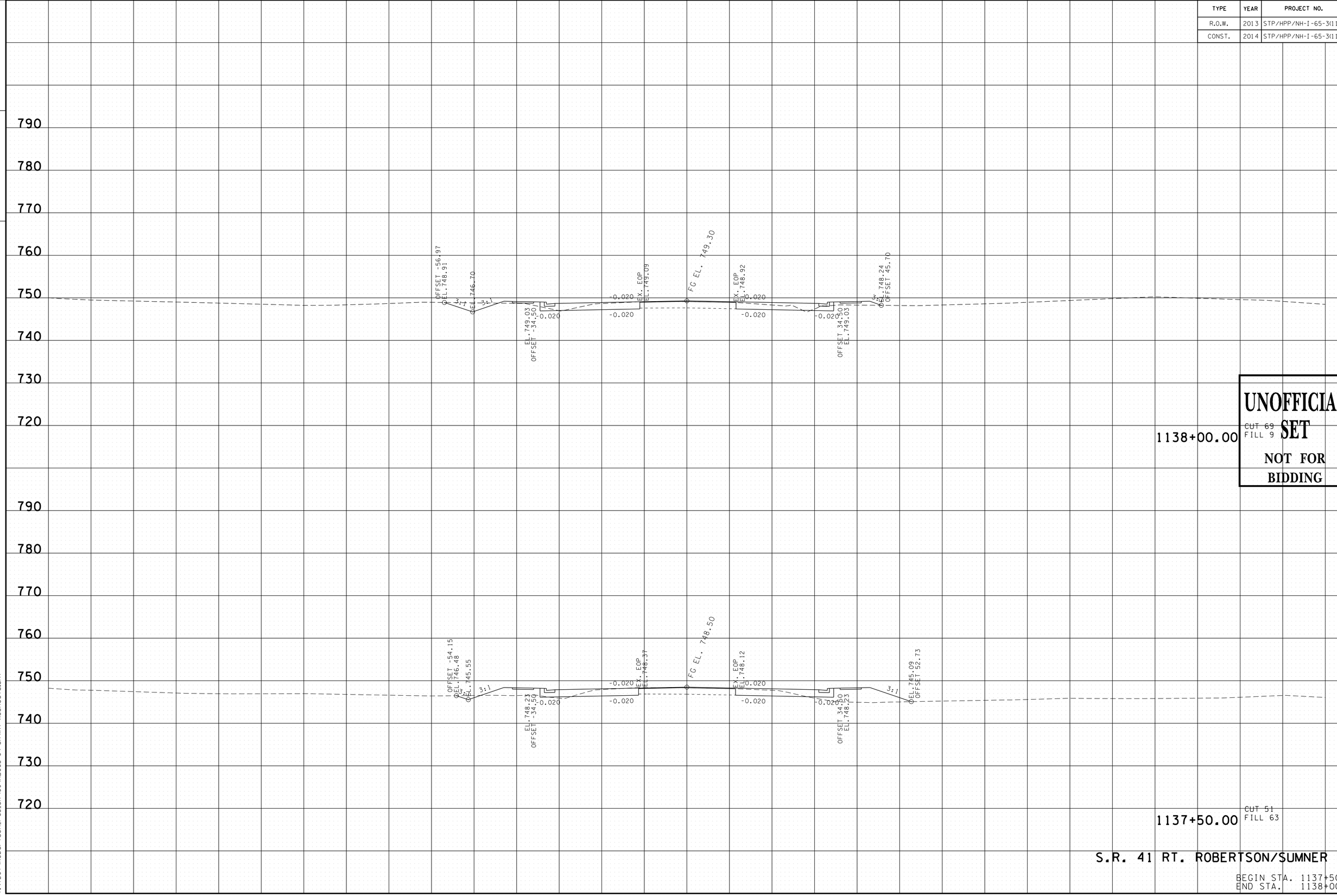
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 9:45:12 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	269
CONST.	2014	STP/HPP/NH-I-65-3(113)	323

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

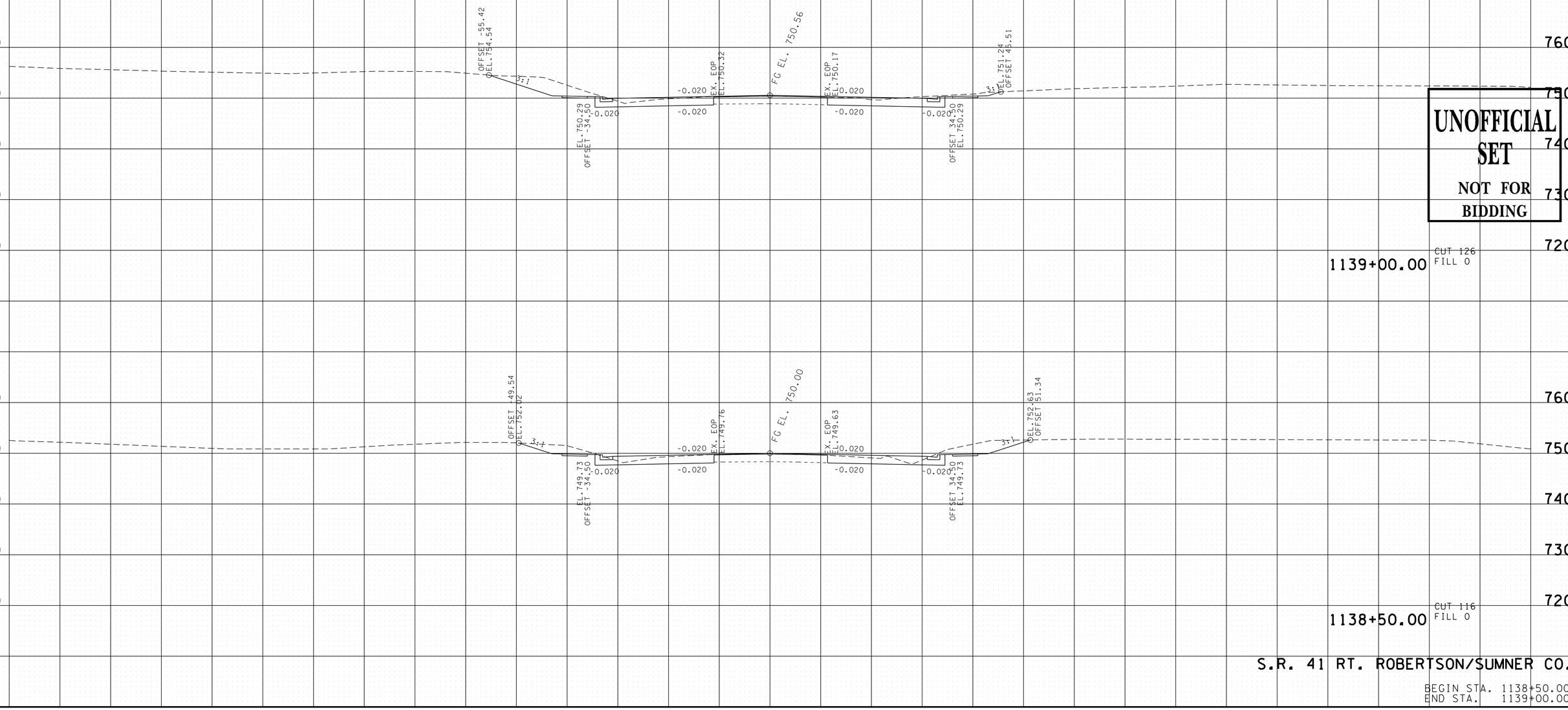
S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1137+50.00
END STA. 1138+00.00

9/23/2014 9:45:13 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	270
CONST.	2014	STP/HPP/NH-I-65-3(113)	324

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

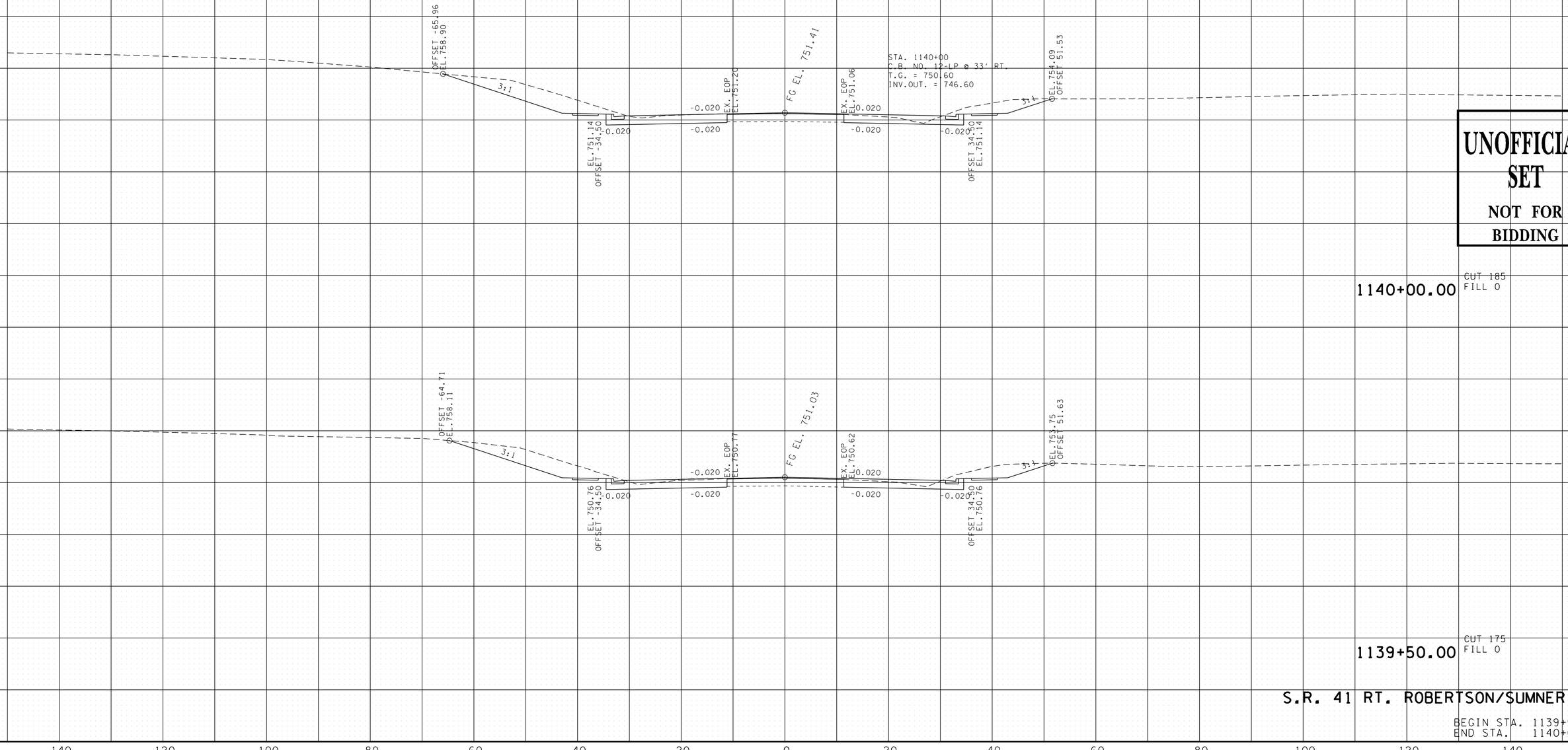
S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1138+50.00
END STA. 1139+00.00

9/23/2014 9:45:14 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	271
CONST.	2014	STP/HPP/NH-I-65-3(113)	325

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1139+50.00
END STA. 1140+00.00

9/23/2014 9:45:15 PM
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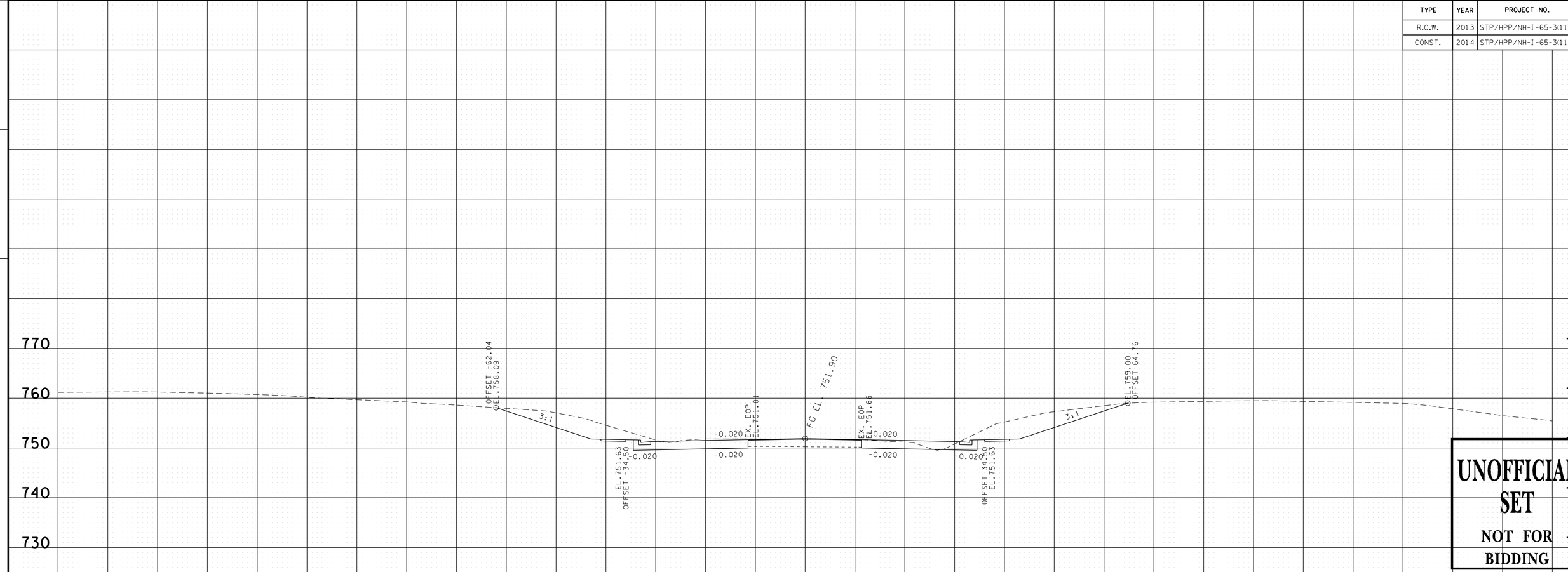
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	272
CONST.	2014	STP/HPP/NH-I-65-3(113)	326

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1140+50.00
END STA. 1141+00.00

9/23/2014 9:45:16 PM
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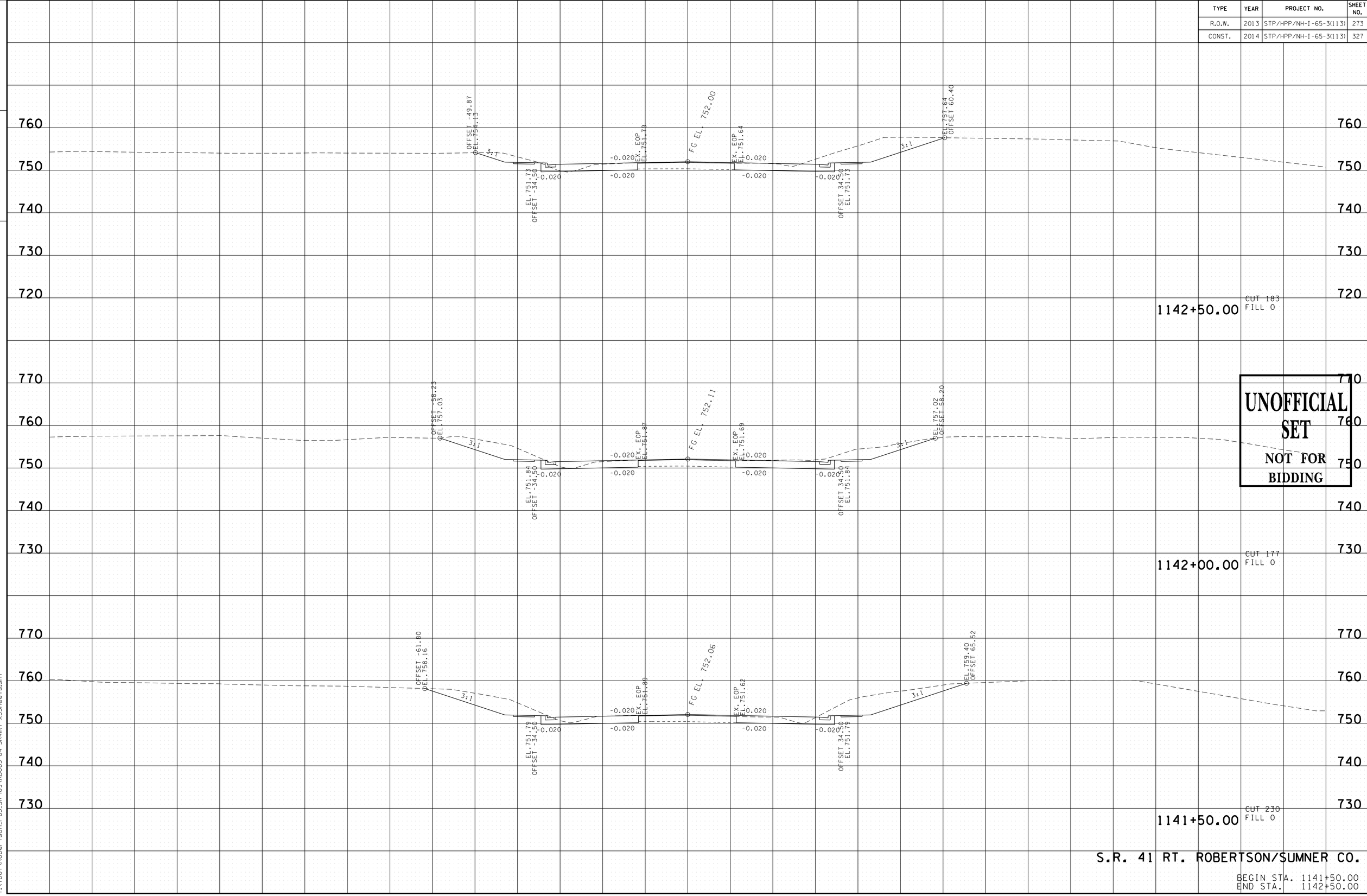
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	273
CONST.	2014	STP/HPP/NH-I-65-3(113)	327

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1141+50.00
END STA. 1142+50.00

9/23/2014 9:45:18 PM
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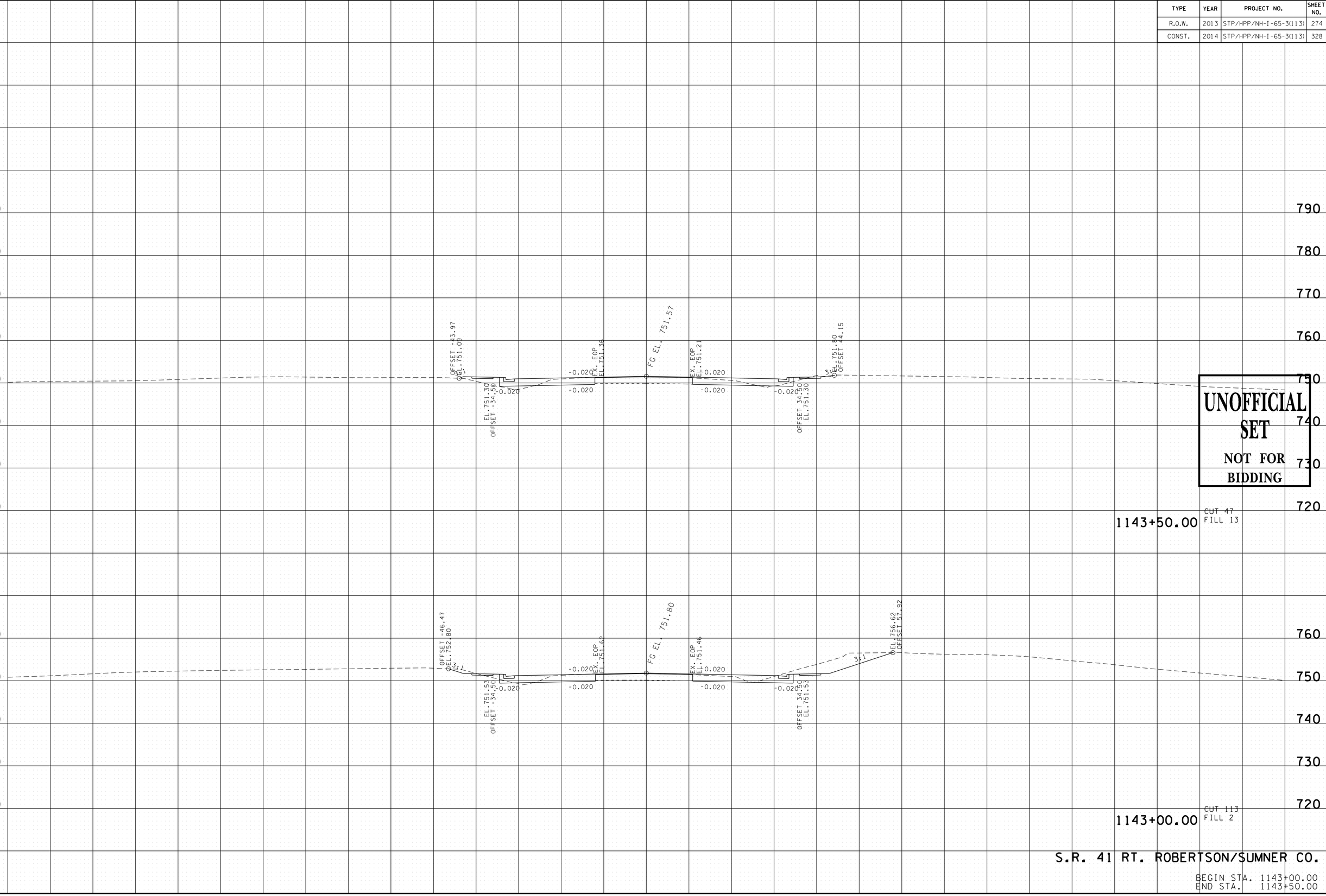
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	274
CONST.	2014	STP/HPP/NH-I-65-3(113)	328

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

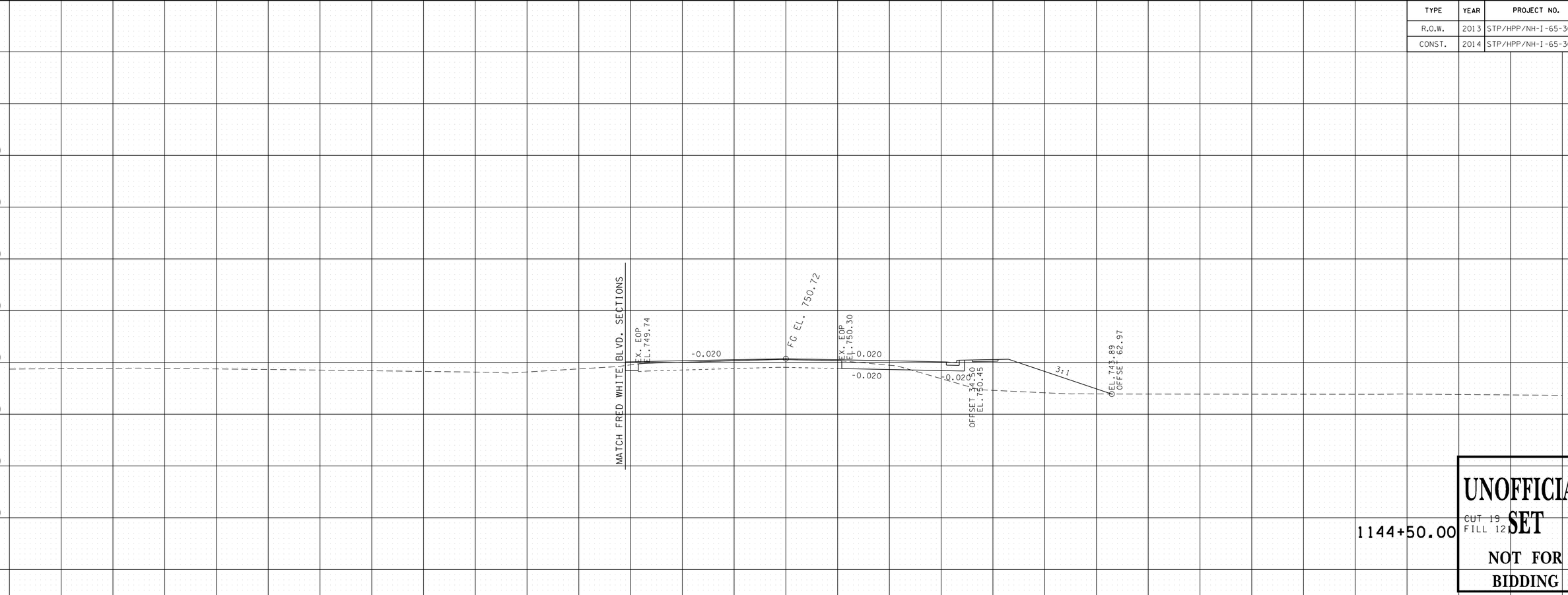
S.R. 41 RT. ROBERTSON/SUMNER CO.

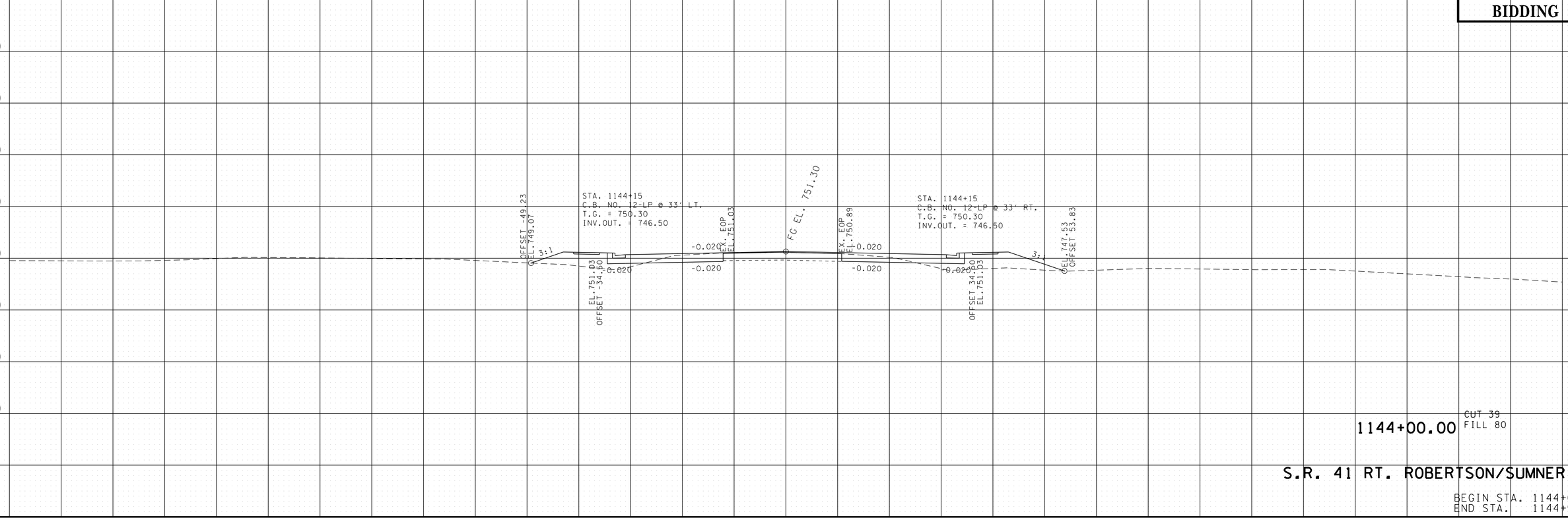
BEGIN STA. 1143+00.00
END STA. 1143+50.00

9/23/2014 9:45:19 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	275
CONST.	2014	STP/HPP/NH-I-65-3(113)	329

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1144+00.00
END STA. 1144+50.00

9/23/2014 9:45:20 PM
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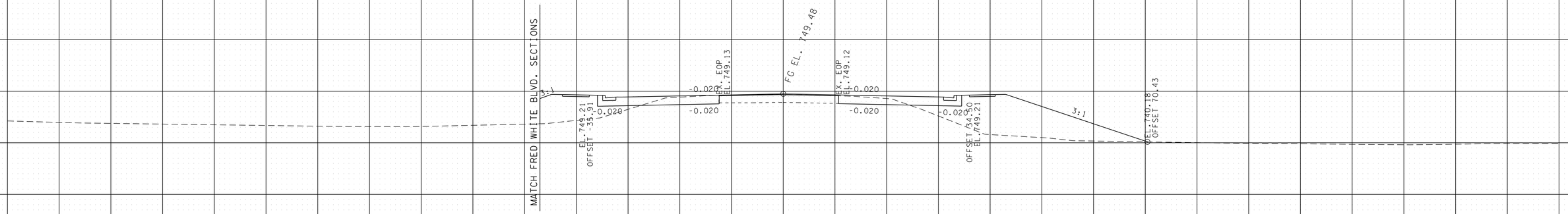
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	276
CONST.	2014	STP/HPP/NH-I-65-3(113)	330

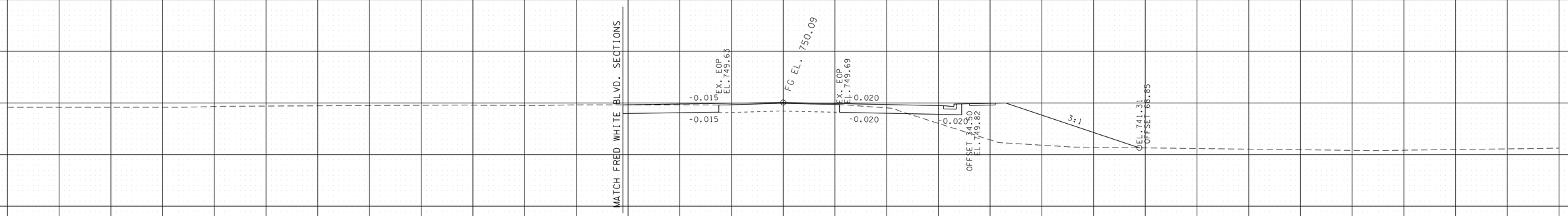
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1145+50.00 CUT 41 FILL 251

UNOFFICIAL SET
NOT FOR BIDDING



1145+00.00 CUT 51 FILL 171

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1145+00.00
END STA. 1145+50.00

9/23/2014 9:45:21 PM
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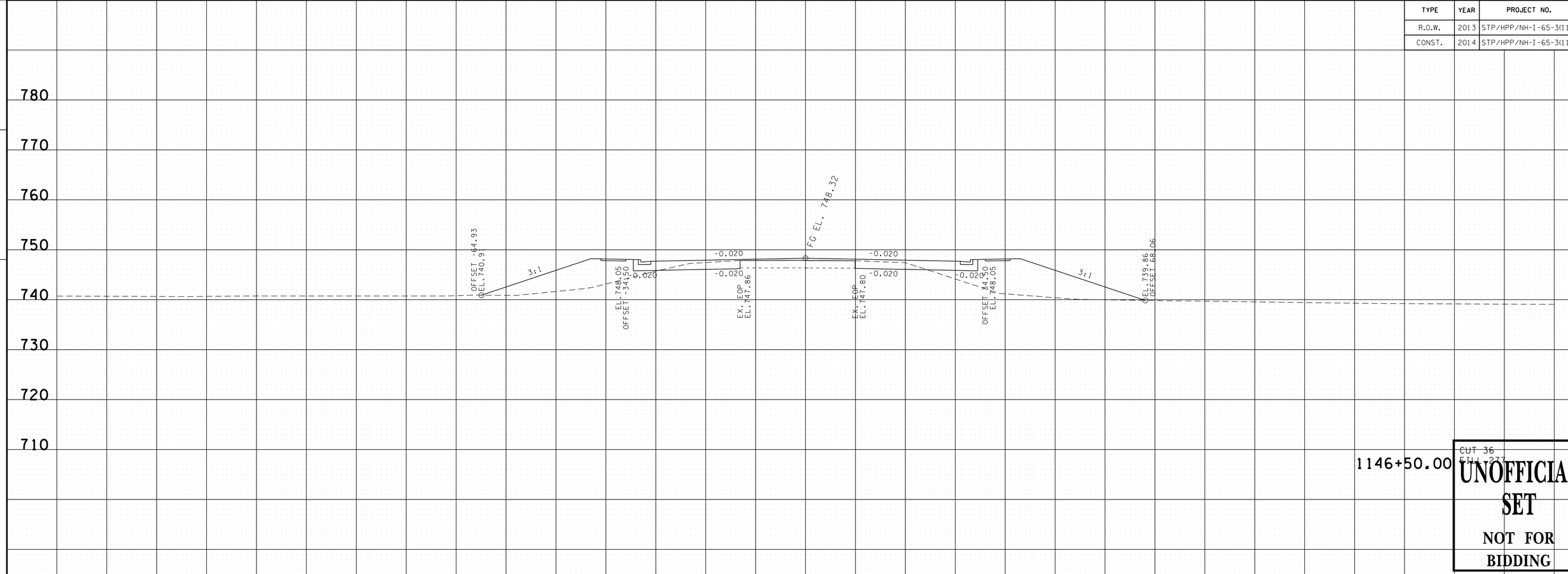
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	277
CONST.	2014	STP/HPP/NH-I-65-3(113)	331

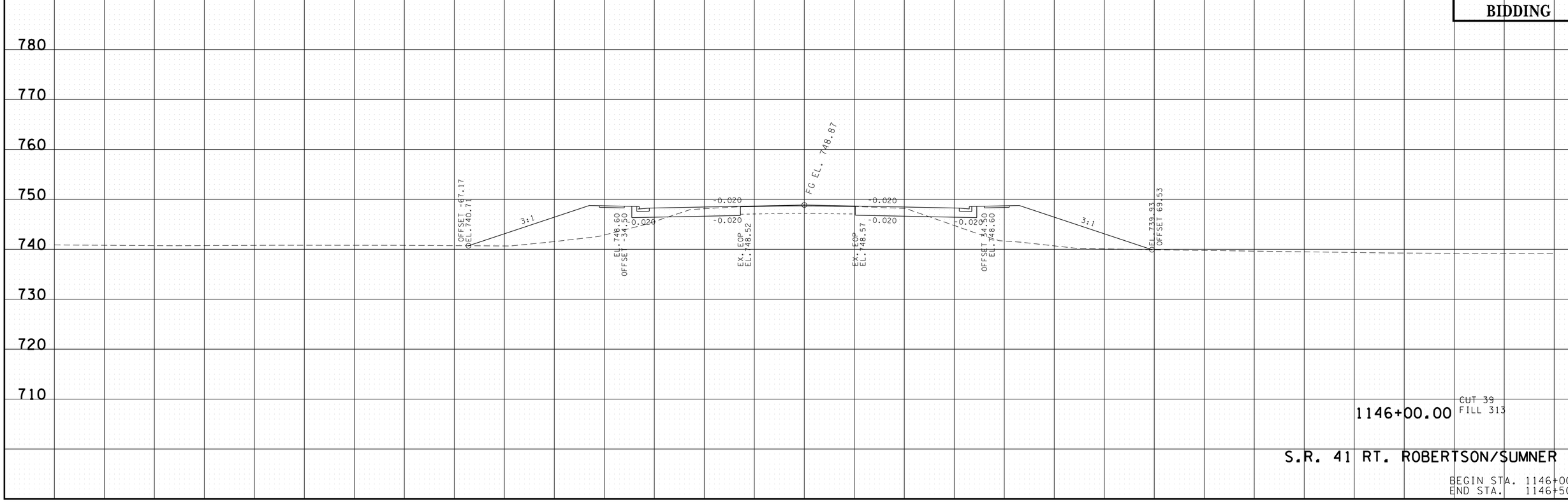
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



1146+50.00 CUT 36 FILL 277

UNOFFICIAL SET
NOT FOR BIDDING



1146+00.00 CUT 39 FILL 313

S.R. 41 RT. ROBERTSON/SUMNER CO.

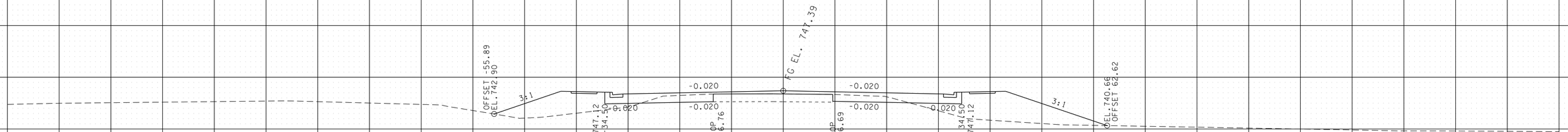
BEGIN STA. 1146+00.00
END STA. 1146+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 9:45:22 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

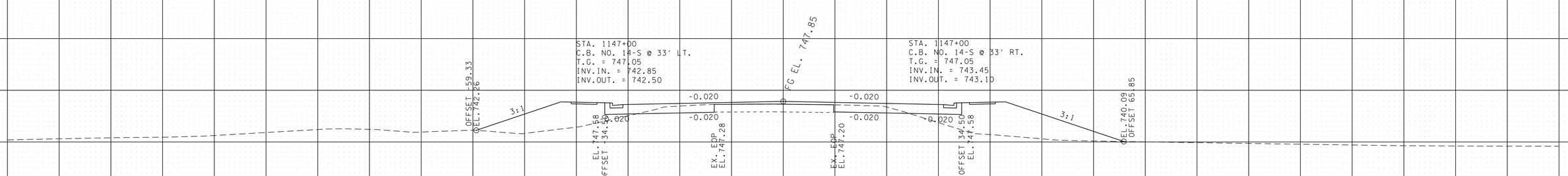
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	278
CONST.	2014	STP/HPP/NH-I-65-3(113)	332

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1147+50.00 CUT 31 FILL 189

UNOFFICIAL SET
NOT FOR BIDDING



1147+00.00 CUT 33 FILL 235

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1147+00.00
END STA. 1147+50.00

9/23/2014 9:45:23 PM
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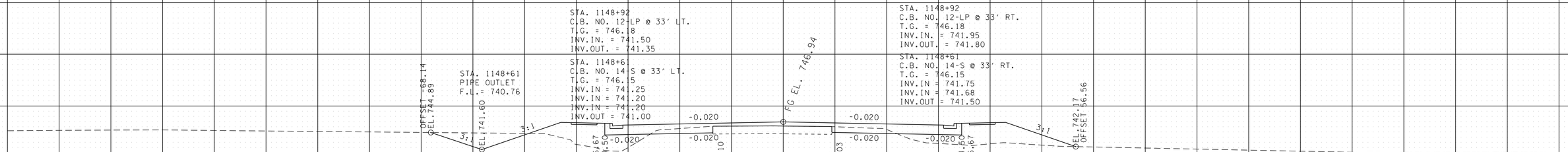
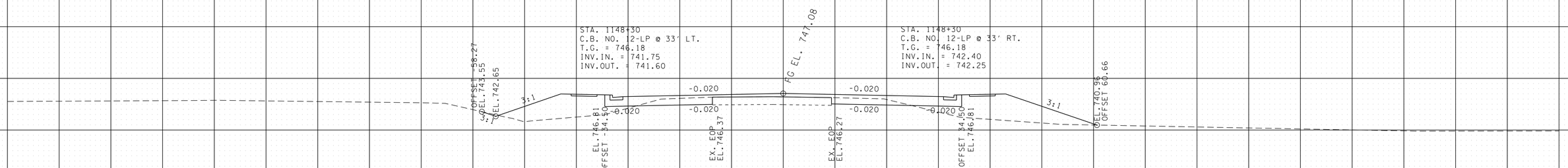
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	279
CONST.	2014	STP/HPP/NH-I-65-3(113)	333

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1148+50.00 CUT 53 FILL 139

UNOFFICIAL SET
NOT FOR BIDDING



1148+00.00 CUT 32 FILL 170

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1148+00.00
END STA. 1148+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 9:45:24 PM
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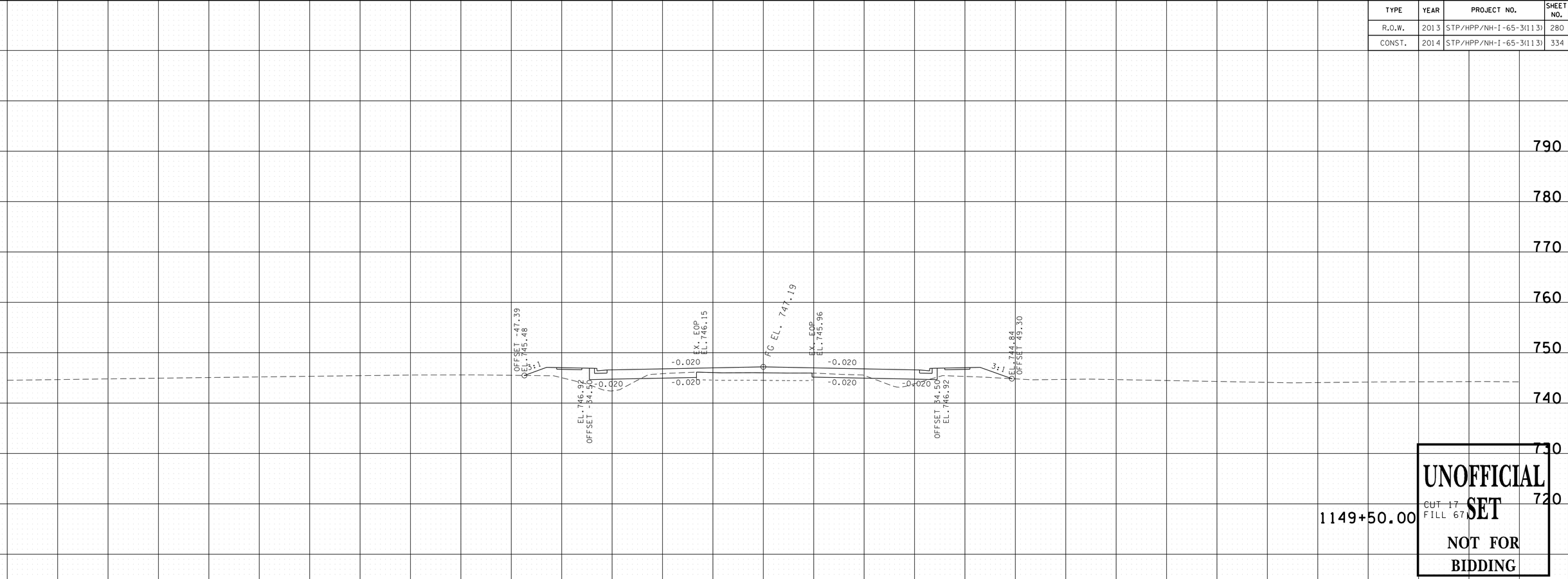
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	280
CONST.	2014	STP/HPP/NH-I-65-3(113)	334

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



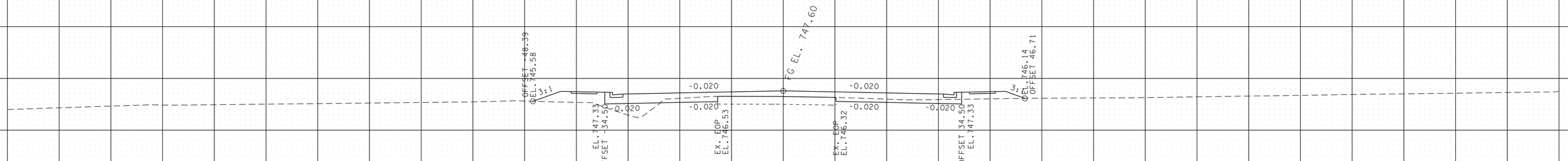
S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1149+00.00
END STA. 1149+50.00

9/23/2014 9:45:25 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

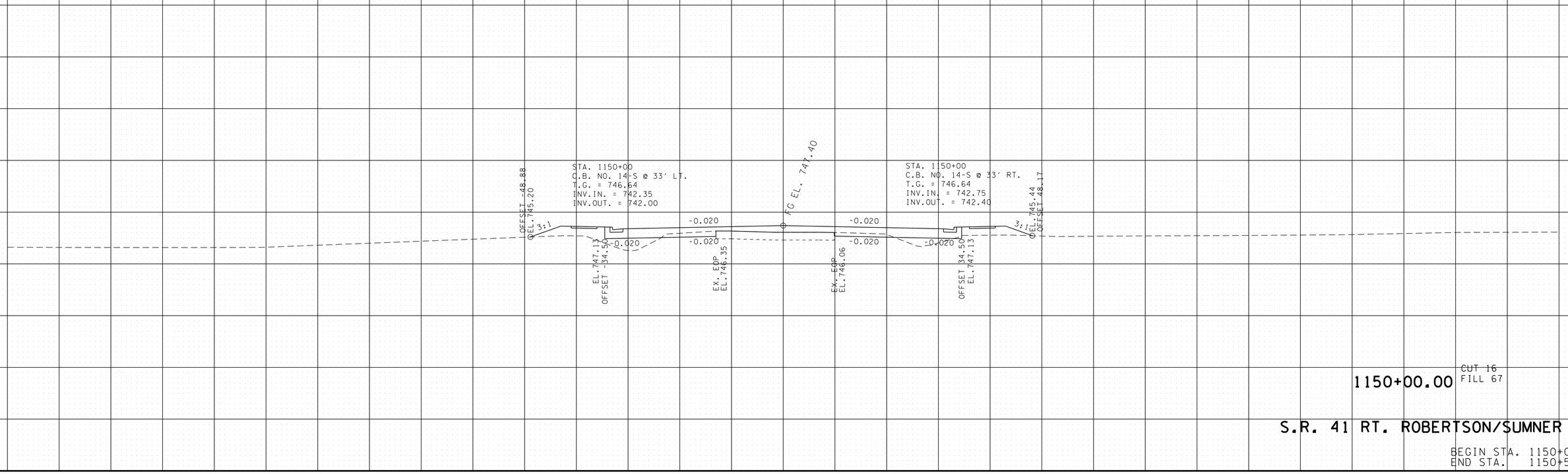
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	281
CONST.	2014	STP/HPP/NH-I-65-3(113)	335

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1150+50.00 CUT 26 FILL 54

UNOFFICIAL SET
NOT FOR BIDDING



1150+00.00 CUT 16 FILL 67

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1150+00.00
END STA. 1150+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 9:45:26 PM
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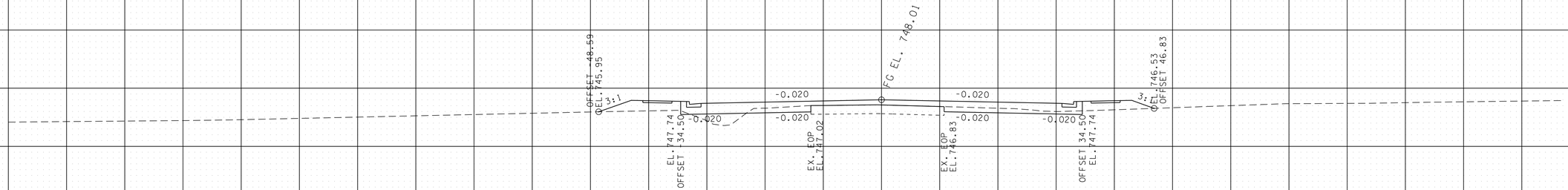
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	282
CONST.	2014	STP/HPP/NH-I-65-3(113)	336

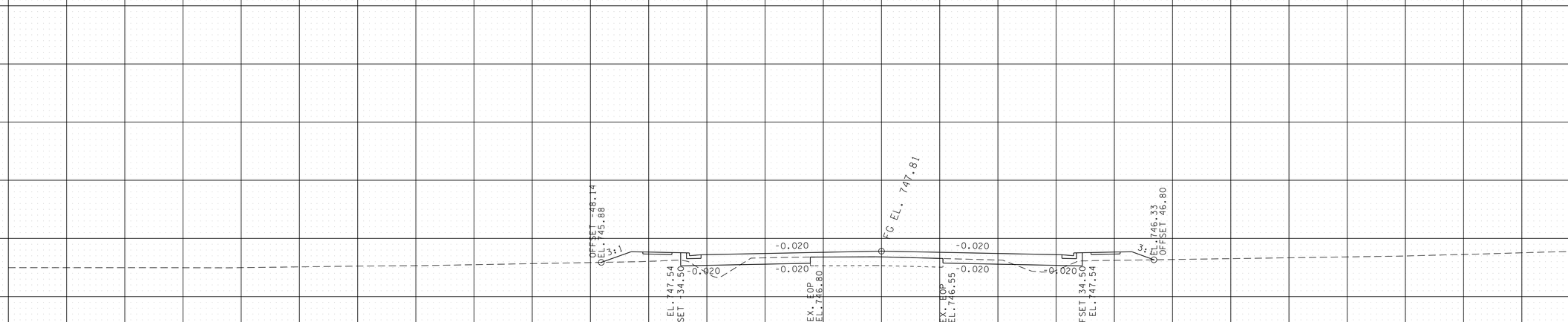
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



1151+50.00 CUT 26 FILL 44

UNOFFICIAL SET
NOT FOR BIDDING



1151+00.00 CUT 23 FILL 45

S.R. 41 RT. ROBERTSON/SUMNER CO.

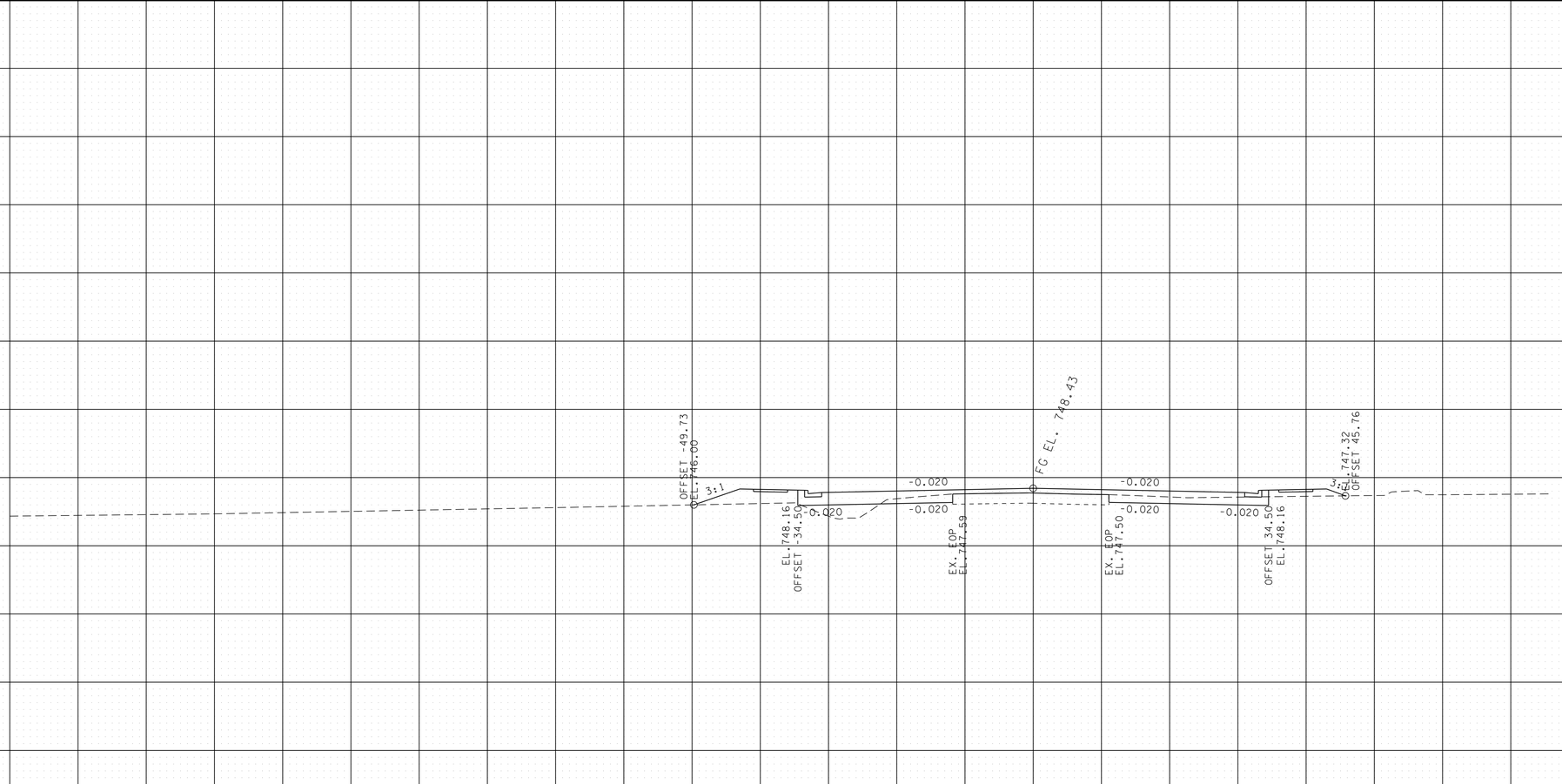
BEGIN STA. 1151+00.00
END STA. 1151+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 9:45:28 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-SR41RT-XSSheets.sht

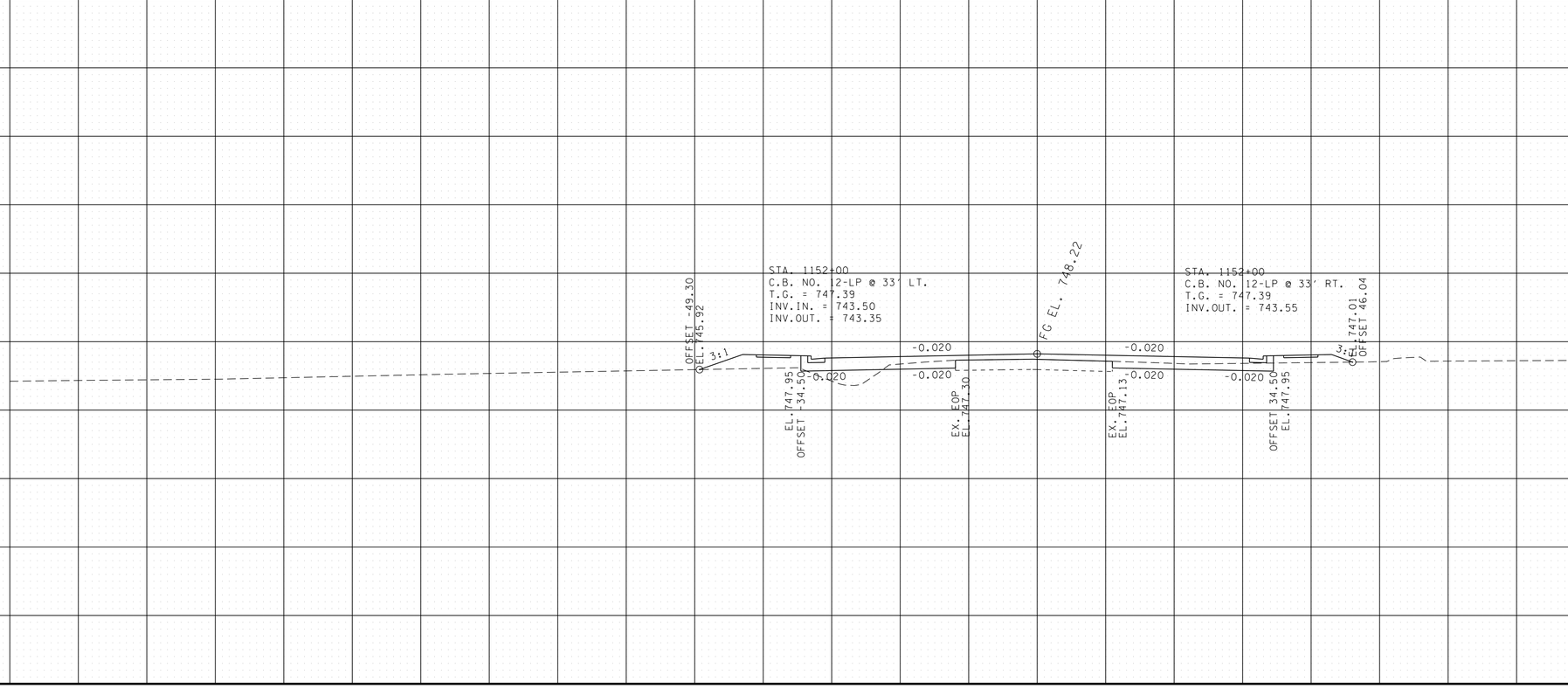
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	283
CONST.	2014	STP/HPP/NH-I-65-3(113)	337

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



1152+50.00 CUT 34 FILL 47

UNOFFICIAL SET
NOT FOR BIDDING



1152+00.00 CUT 32 FILL 46

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1152+00.00
END STA. 1152+50.00

9/23/2014 9:45:29 PM
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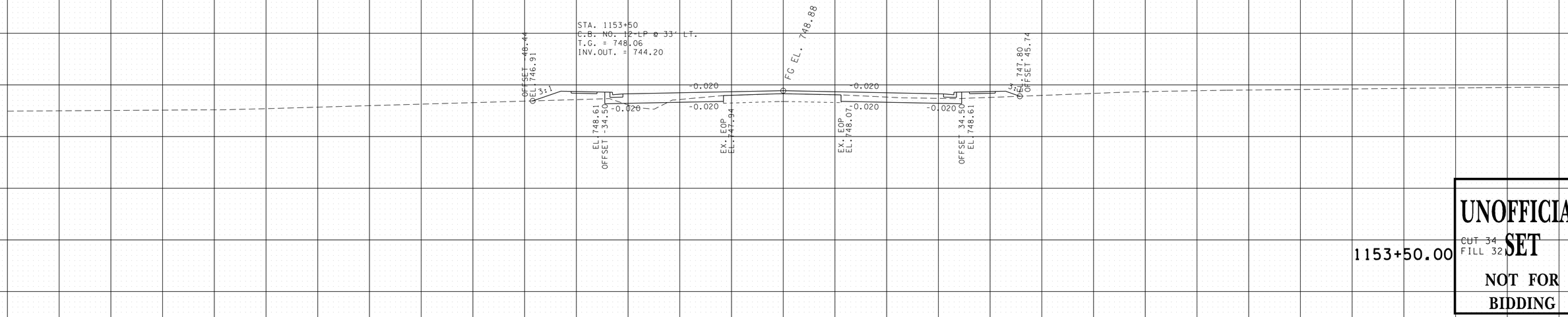
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	284
CONST.	2014	STP/HPP/NH-I-65-3(113)	338

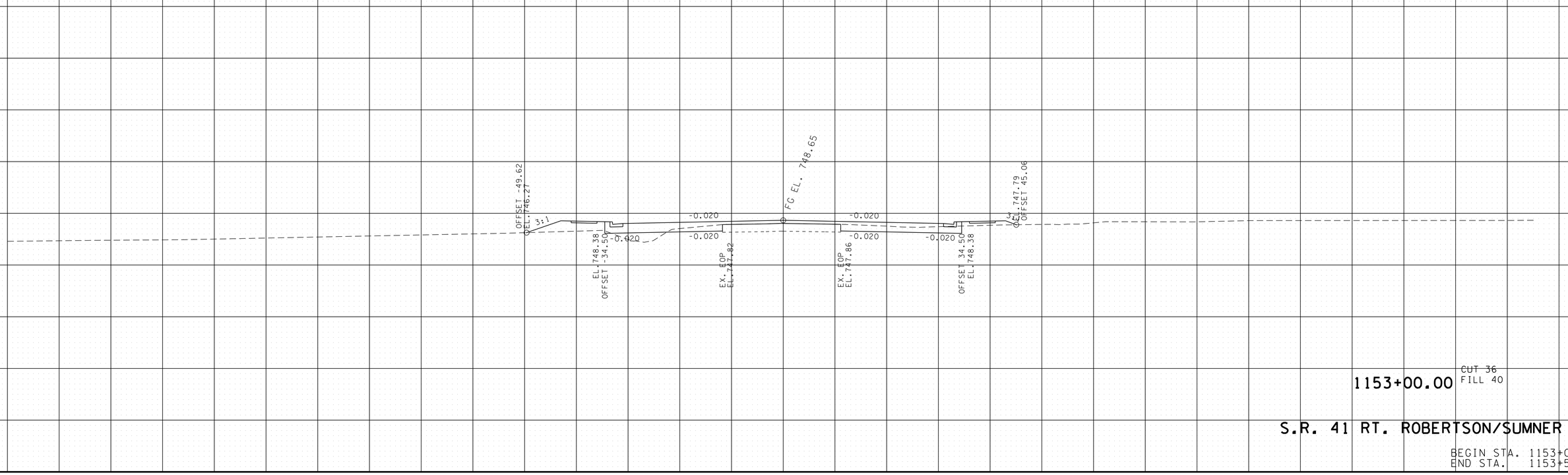
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



1153+50.00 CUT 34 FILL 32

UNOFFICIAL SET
NOT FOR BIDDING



1153+00.00 CUT 36 FILL 40

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1153+00.00
END STA. 1153+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/23/2014 9:45:30 PM
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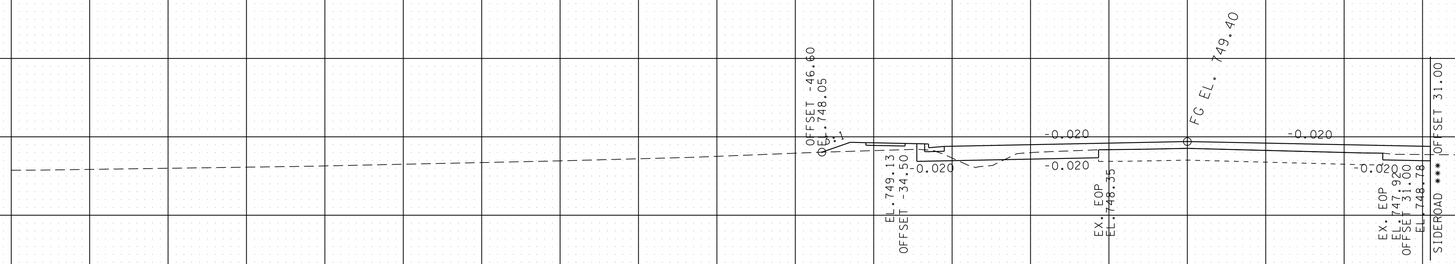
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	285
CONST.	2014	STP/HPP/NH-I-65-3(113)	339

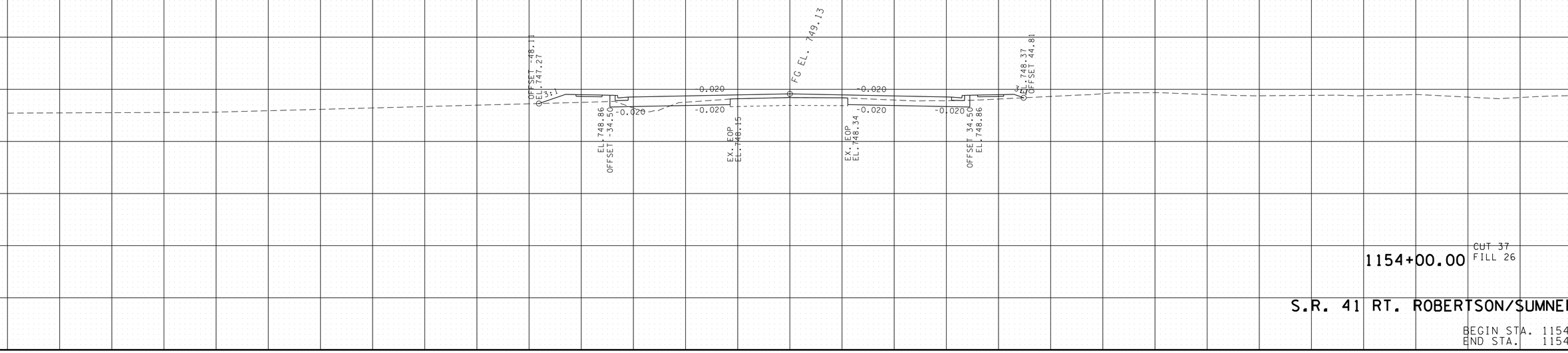
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



UNOFFICIAL SET
NOT FOR BIDDING

1154+50.00 CUT 20 FILL 12



1154+00.00 CUT 37 FILL 26

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1154+00.00
END STA. 1154+50.00

9/23/2014 9:45:31 PM
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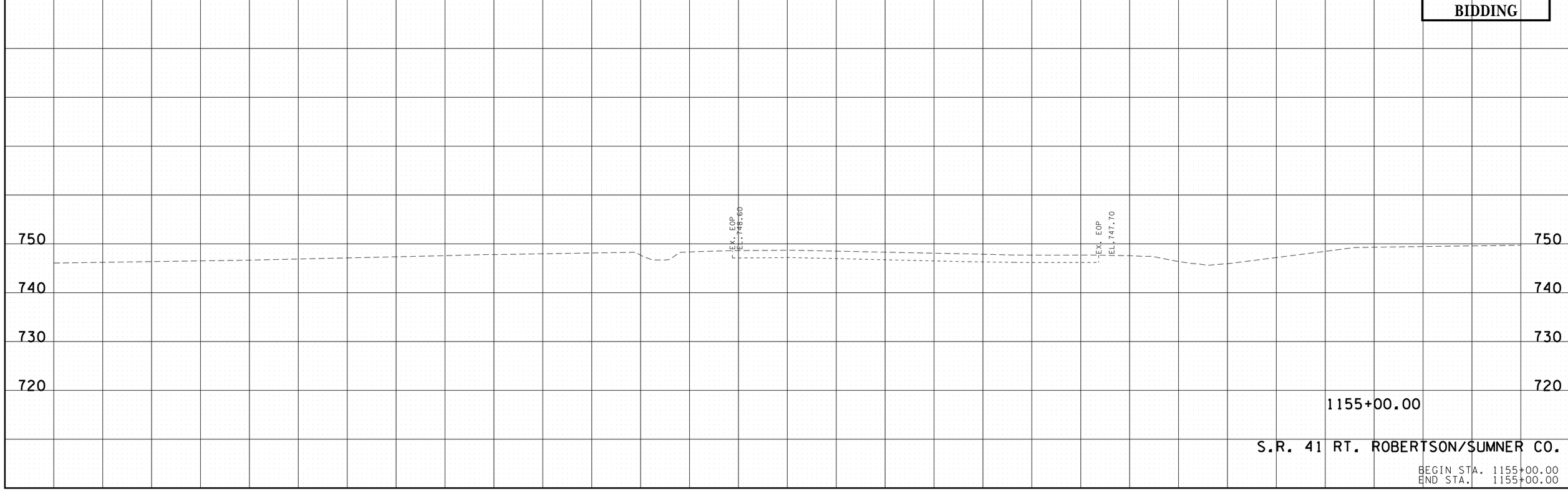
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	286
CONST.	2014	STP/HPP/NH-I-65-3(113)	340

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

UNOFFICIAL SET
NOT FOR BIDDING



1155+00.00

S.R. 41 RT. ROBERTSON/SUMNER CO.

BEGIN STA. 1155+00.00
END STA. 1155+00.00

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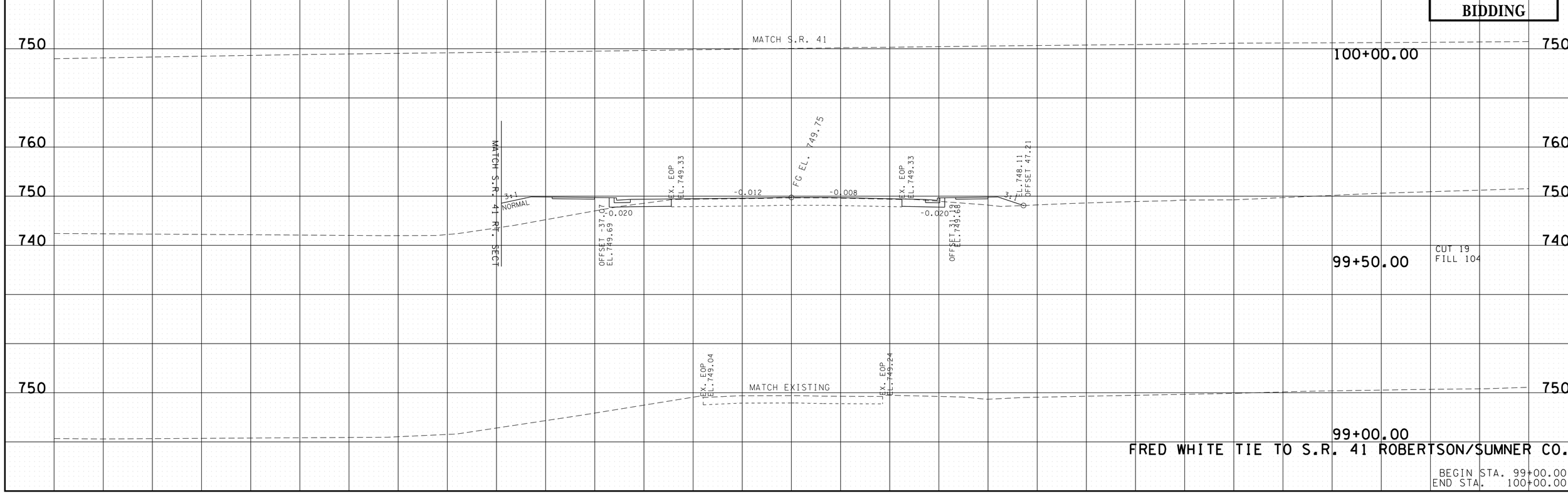
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	287
CONST.	2014	STP/HPP/NH-I-65-3(113)	341

UNOFFICIAL SET
NOT FOR BIDDING



FRED WHITE TIE TO S.R. 41 ROBERTSON/SUMNER CO.

BEGIN STA. 99+00.00
END STA. 100+00.00

9/22/2014 10:19:37 PM
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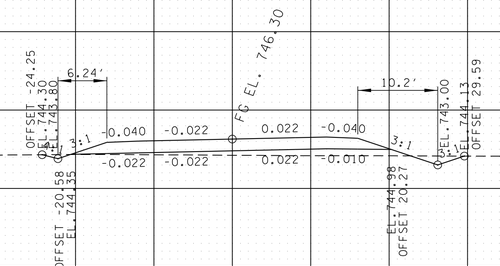
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	288
CONST.	2014	STP/HPP/NH-I-65-3(113)	342

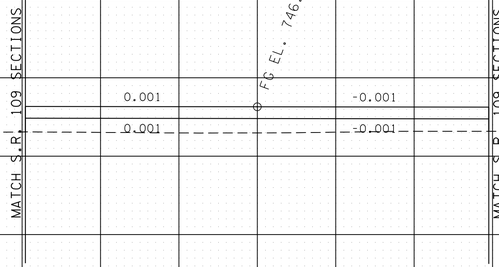
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



71+00.00

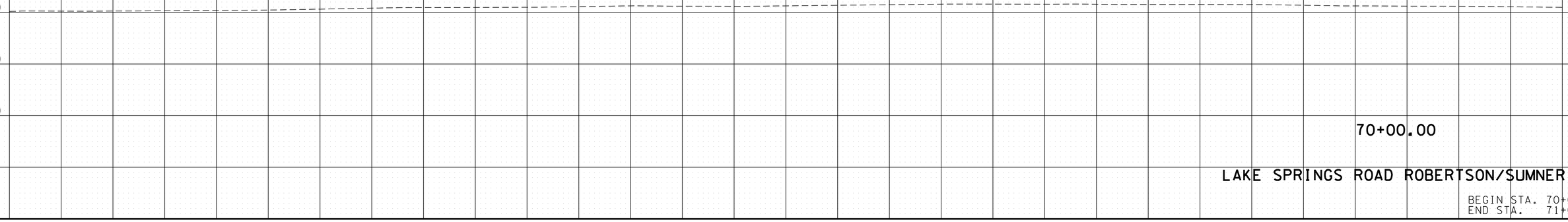
CUT 5
FILL 23



70+50.00

CUT 0
FILL 103

MATCH S.R. 109 SECTIONS



70+00.00

UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS ROAD ROBERTSON/SUMNER CO.

BEGIN STA. 70+00.00
END STA. 71+00.00

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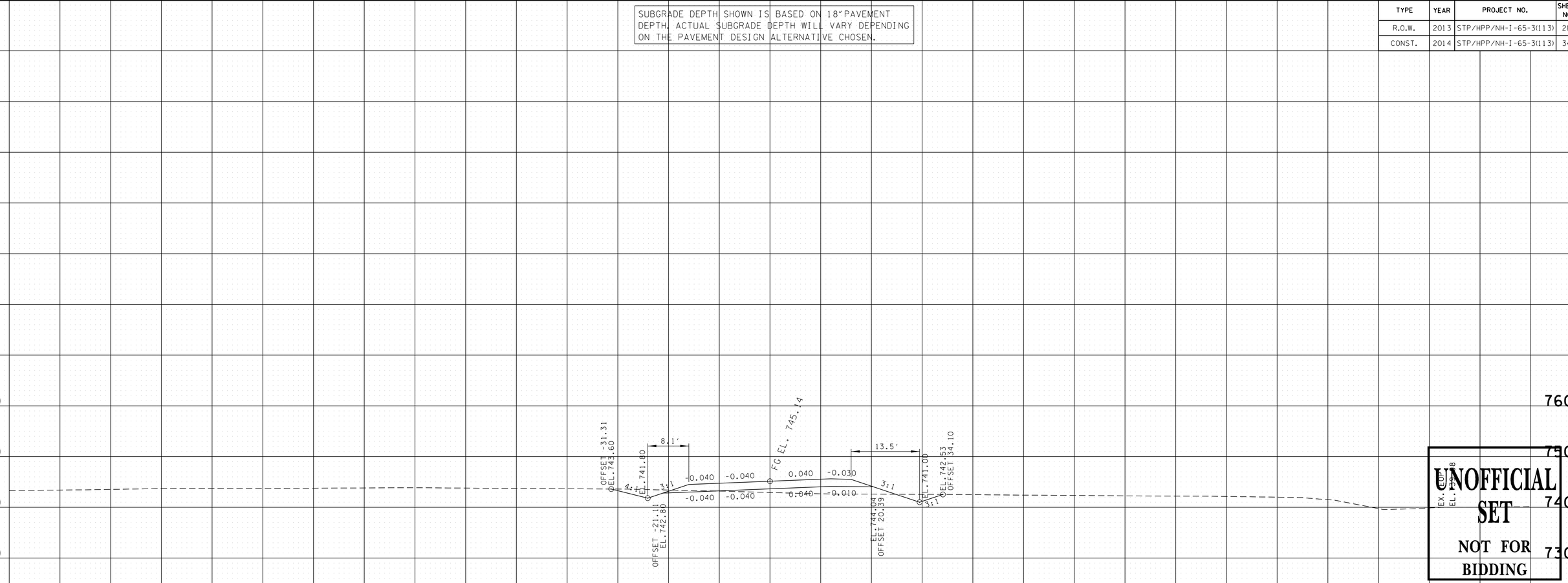
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	289
CONST.	2014	STP/HPP/NH-I-65-3(113)	343

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



LAKE SPRINGS ROAD ROBERTSON/SUMNER CO.

BEGIN STA. 71+50.00
END STA. 72+00.00

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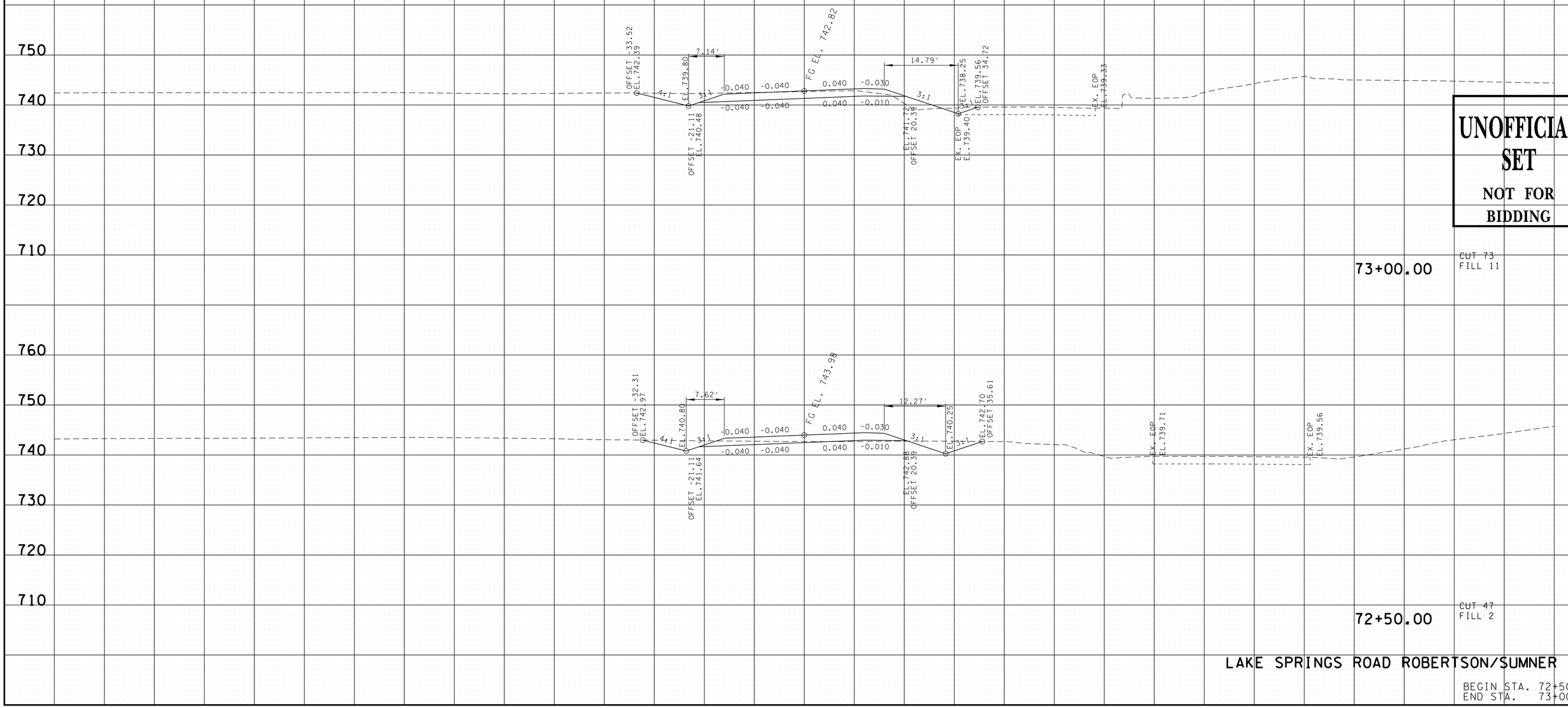
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	290
CONST.	2014	STP/HPP/NH-I-65-3(113)	344



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS ROAD ROBERTSON/SUMNER CO.

BEGIN STA. 72+50.00
END STA. 73+00.00

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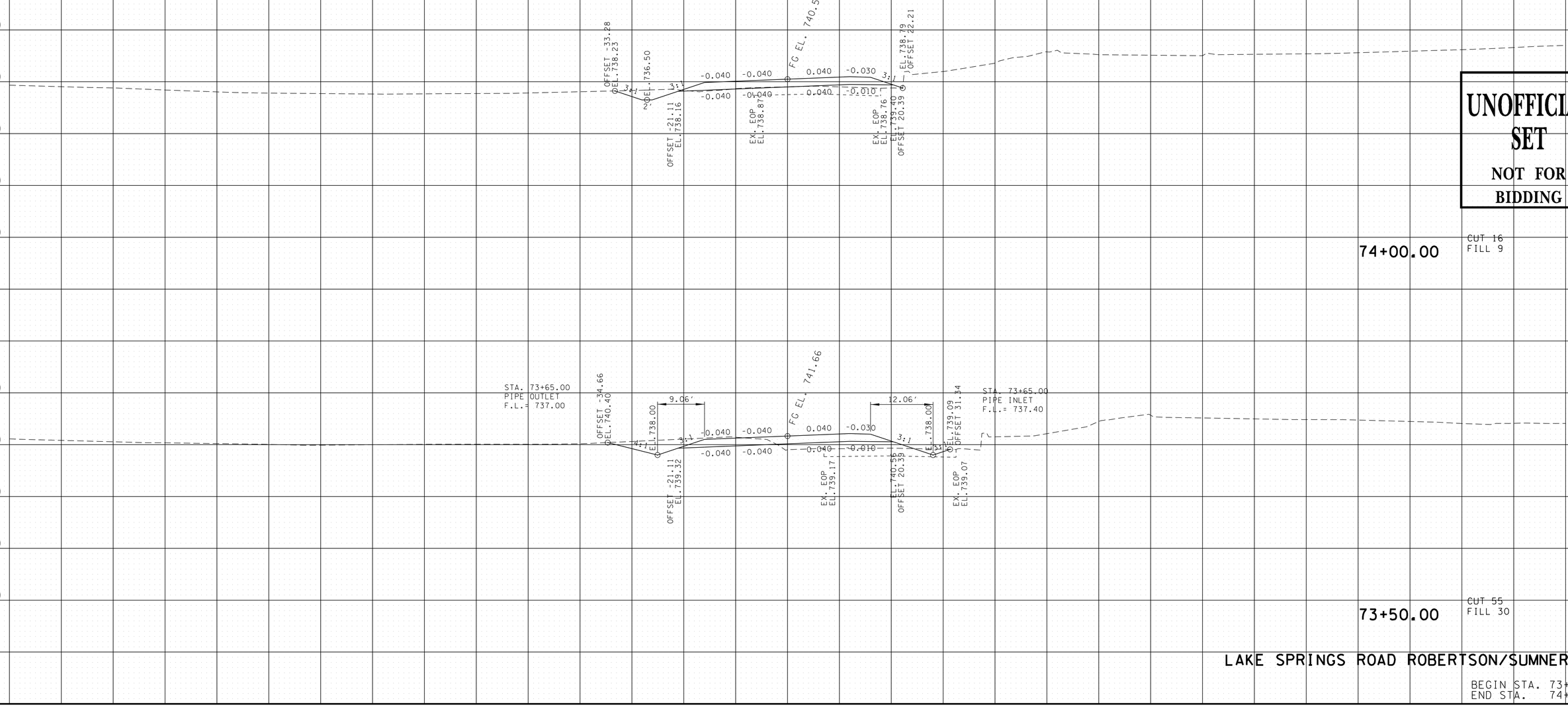
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	291
CONST.	2014	STP/HPP/NH-I-65-3(113)	345

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS ROAD ROBERTSON/SUMNER CO.

BEGIN STA. 73+50.00
END STA. 74+00.00

9/22/2014 10:19:46 PM
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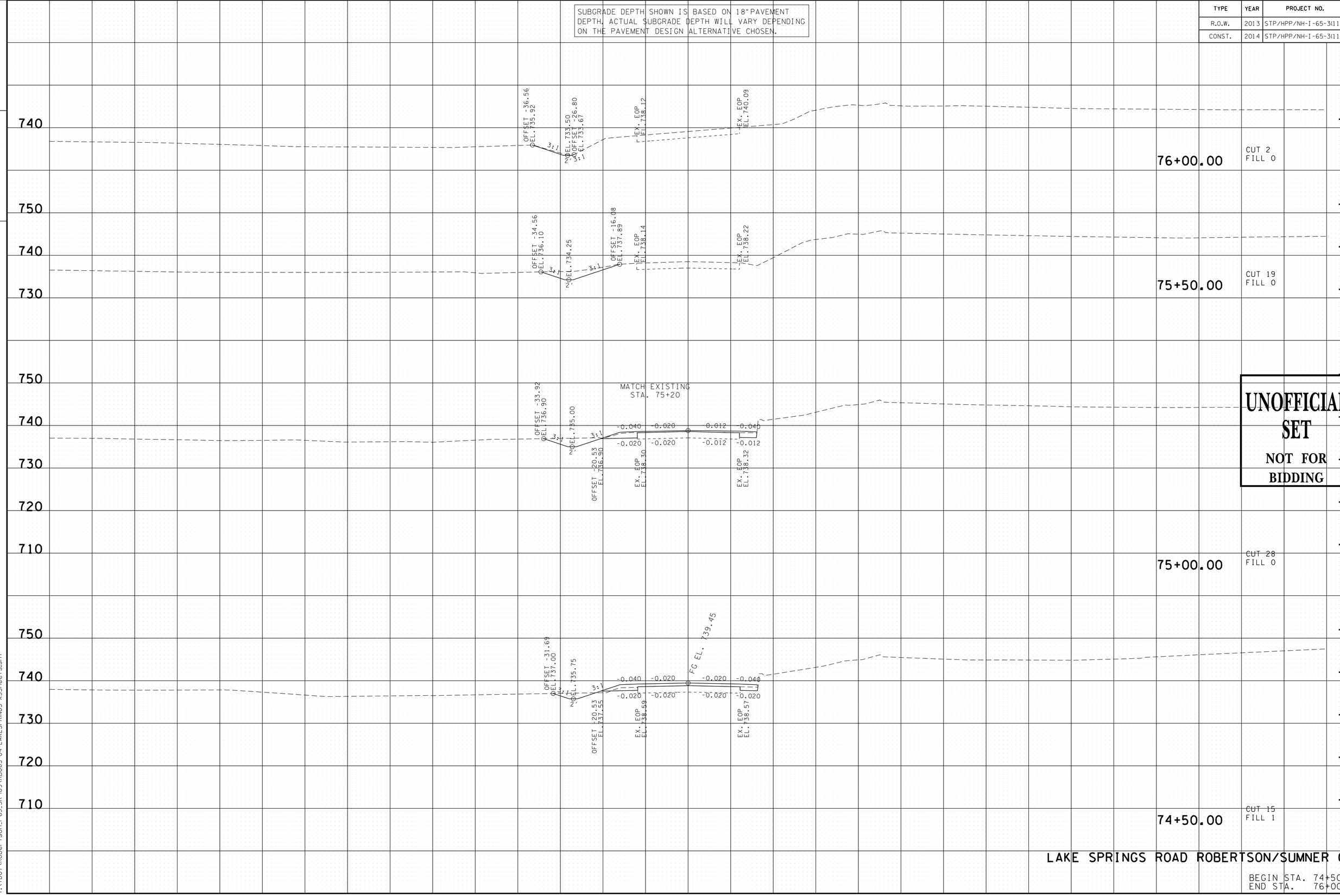
SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	292
CONST.	2014	STP/HPP/NH-I-65-3(113)	346

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS ROAD ROBERTSON/SUMNER CO.

BEGIN STA. 74+50.00
END STA. 76+00.00

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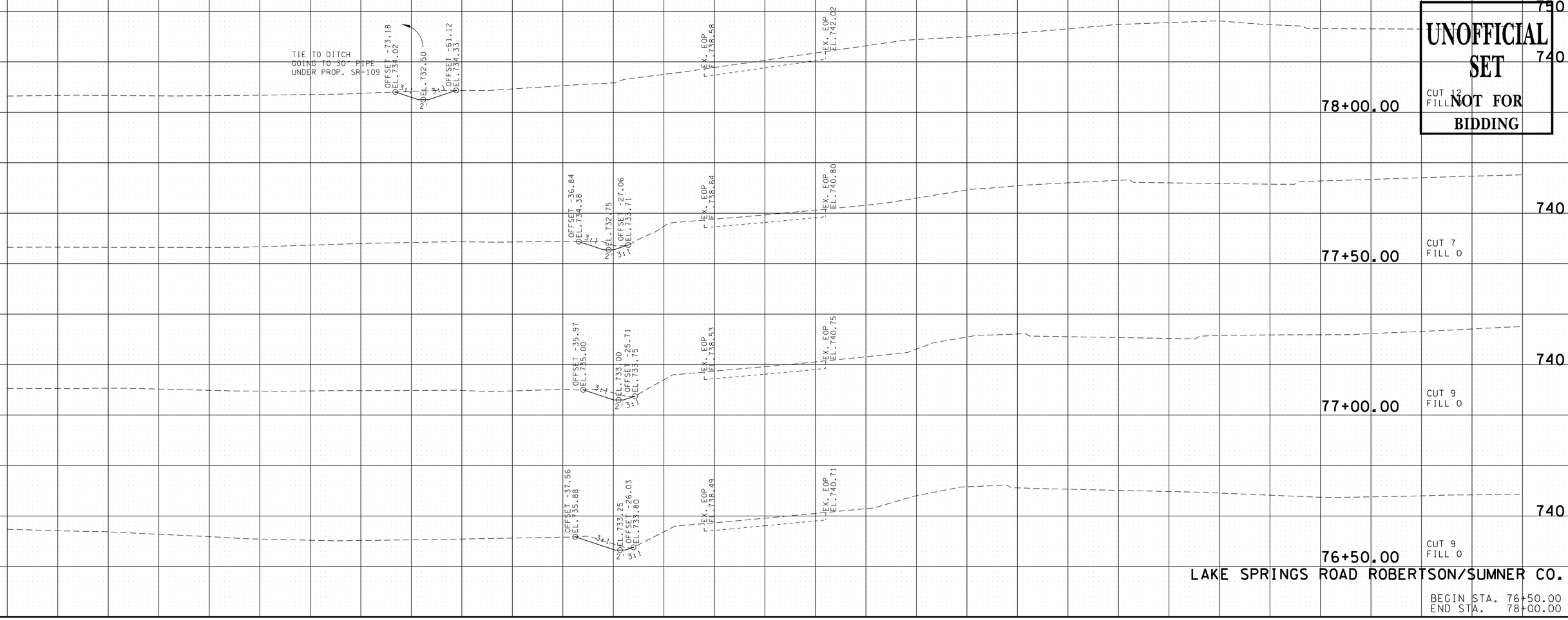
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	293
CONST.	2014	STP/HPP/NH-I-65-3(113)	347



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS ROAD ROBERTSON/SUMNER CO.

BEGIN STA. 76+50.00
END STA. 78+00.00

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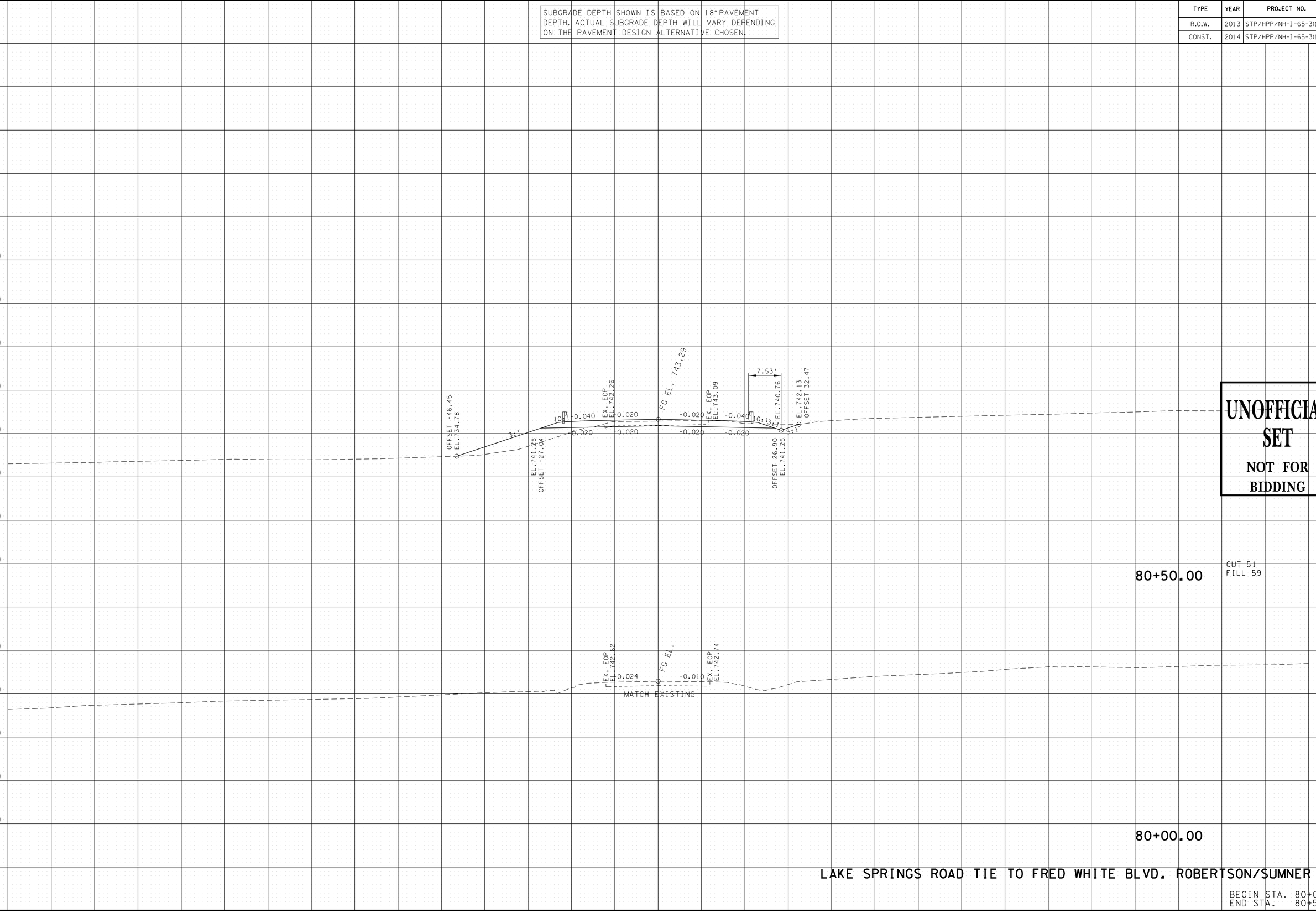
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	294
CONST.	2014	STP/HPP/NH-I-65-3(113)	348

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD. ROBERTSON/SUMNER CO.

BEGIN STA. 80+00.00
END STA. 80+50.00

9/22/2014 10:19:50 PM
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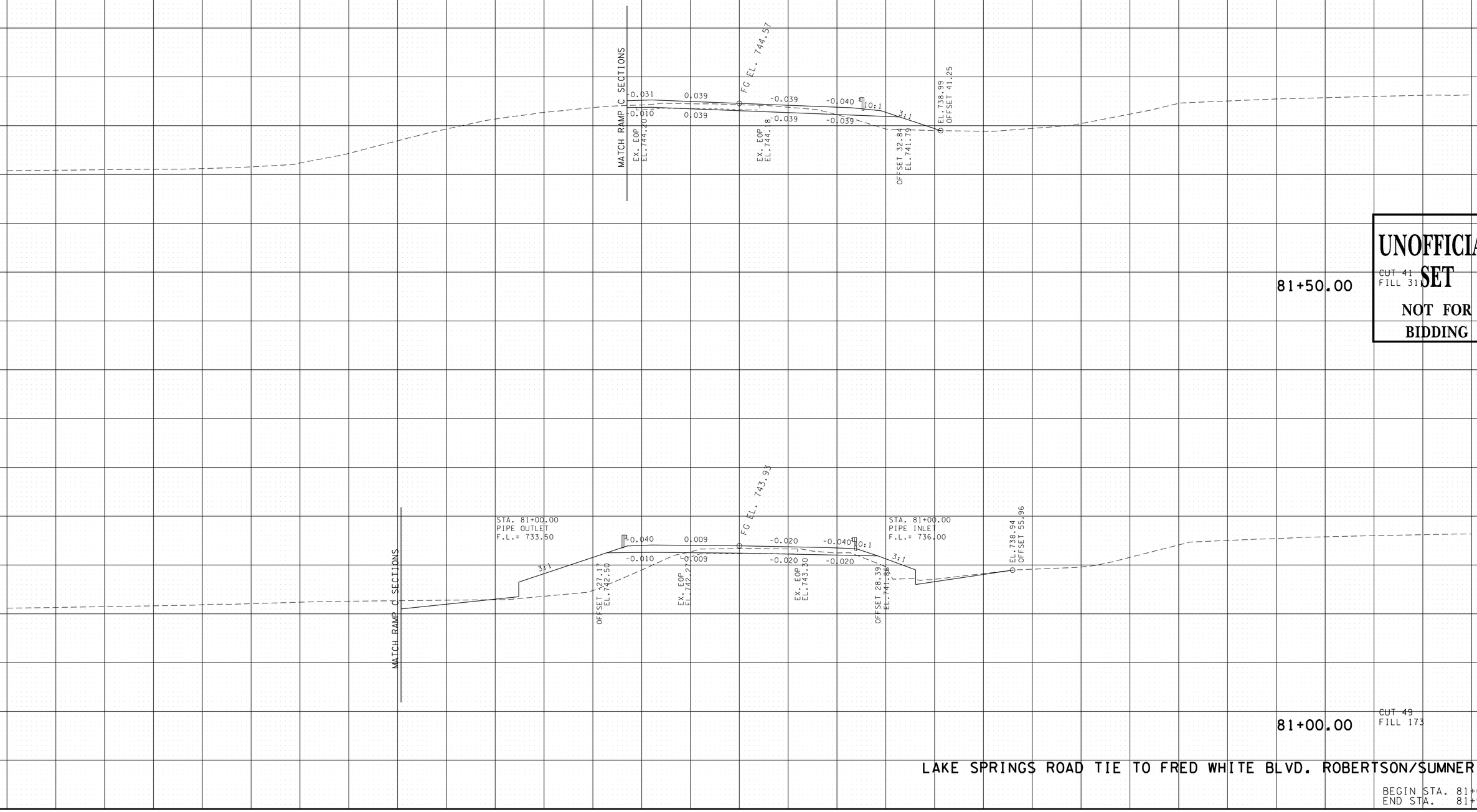
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	295
CONST.	2014	STP/HPP/NH-I-65-3(113)	349

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD. ROBERTSON/SUMNER CO.

BEGIN STA. 81+00.00
END STA. 81+50.00

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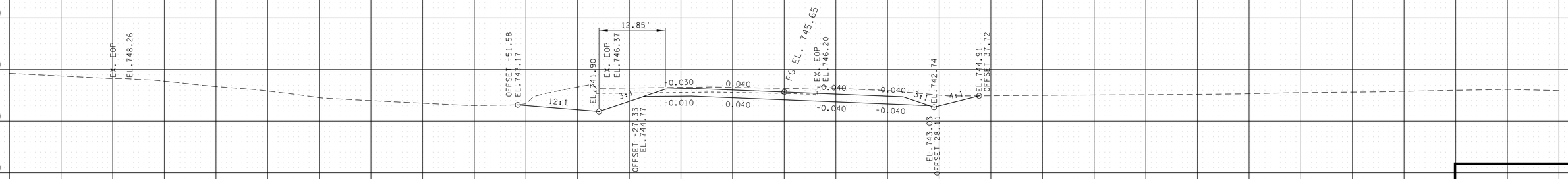
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

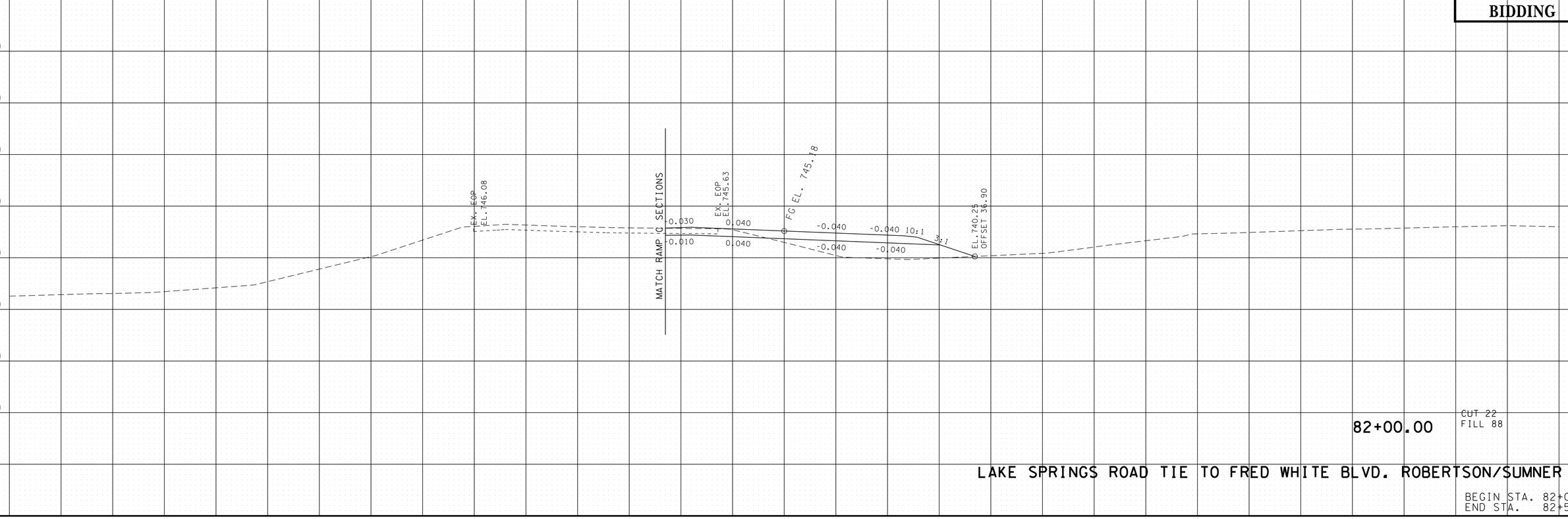
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	296
CONST.	2014	STP/HPP/NH-I-65-3(113)	350



82+50.00

CUT 21
FILL 0

UNOFFICIAL SET
NOT FOR BIDDING



82+00.00

CUT 22
FILL 88

LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD. ROBERTSON/SUMNER CO.

BEGIN STA. 82+00.00
END STA. 82+50.00

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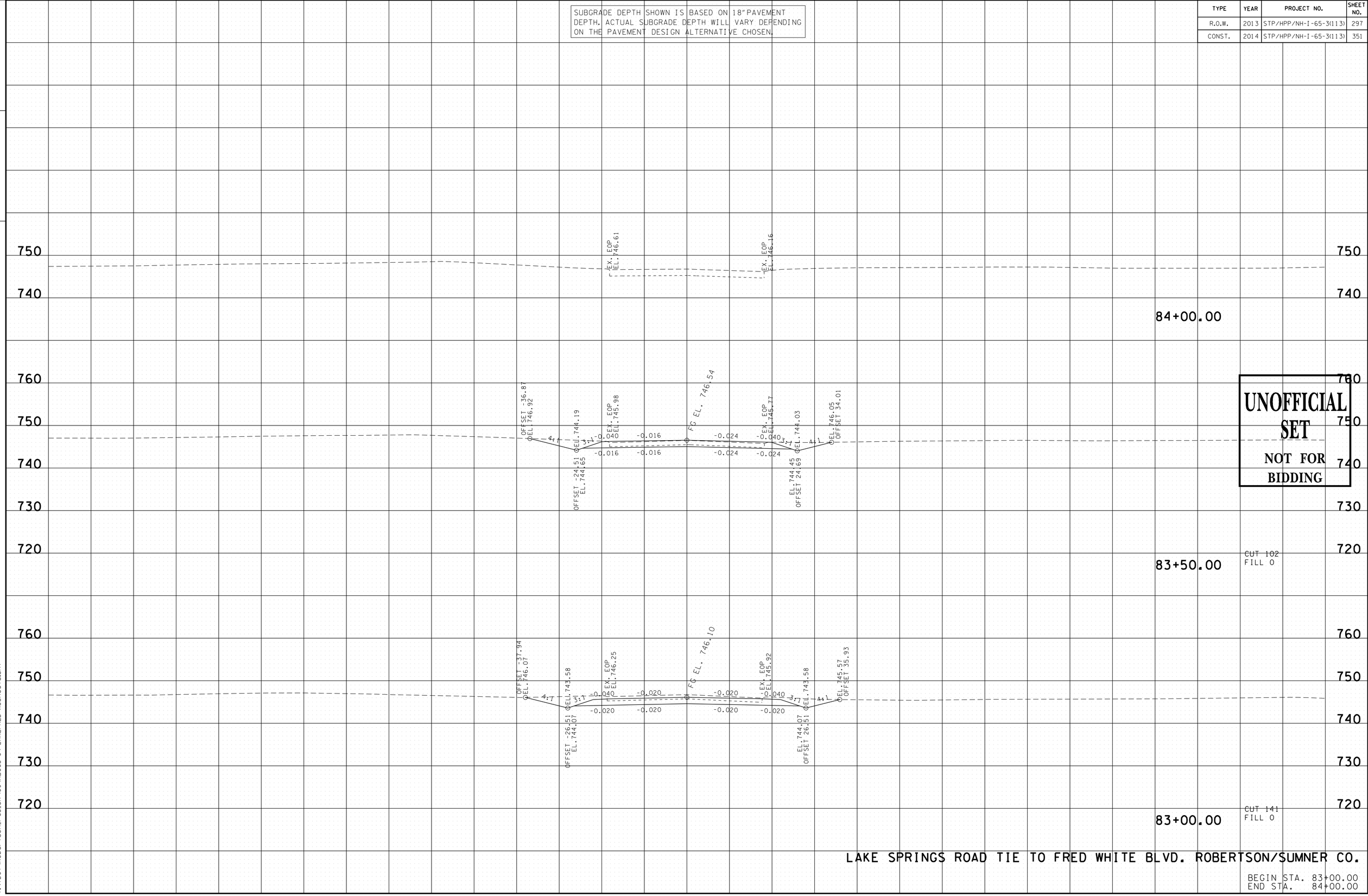
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	297
CONST.	2014	STP/HPP/NH-I-65-3(113)	351

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



LAKE SPRINGS ROAD TIE TO FRED WHITE BLVD. ROBERTSON/SUMNER CO.

BEGIN STA. 83+00.00
END STA. 84+00.00

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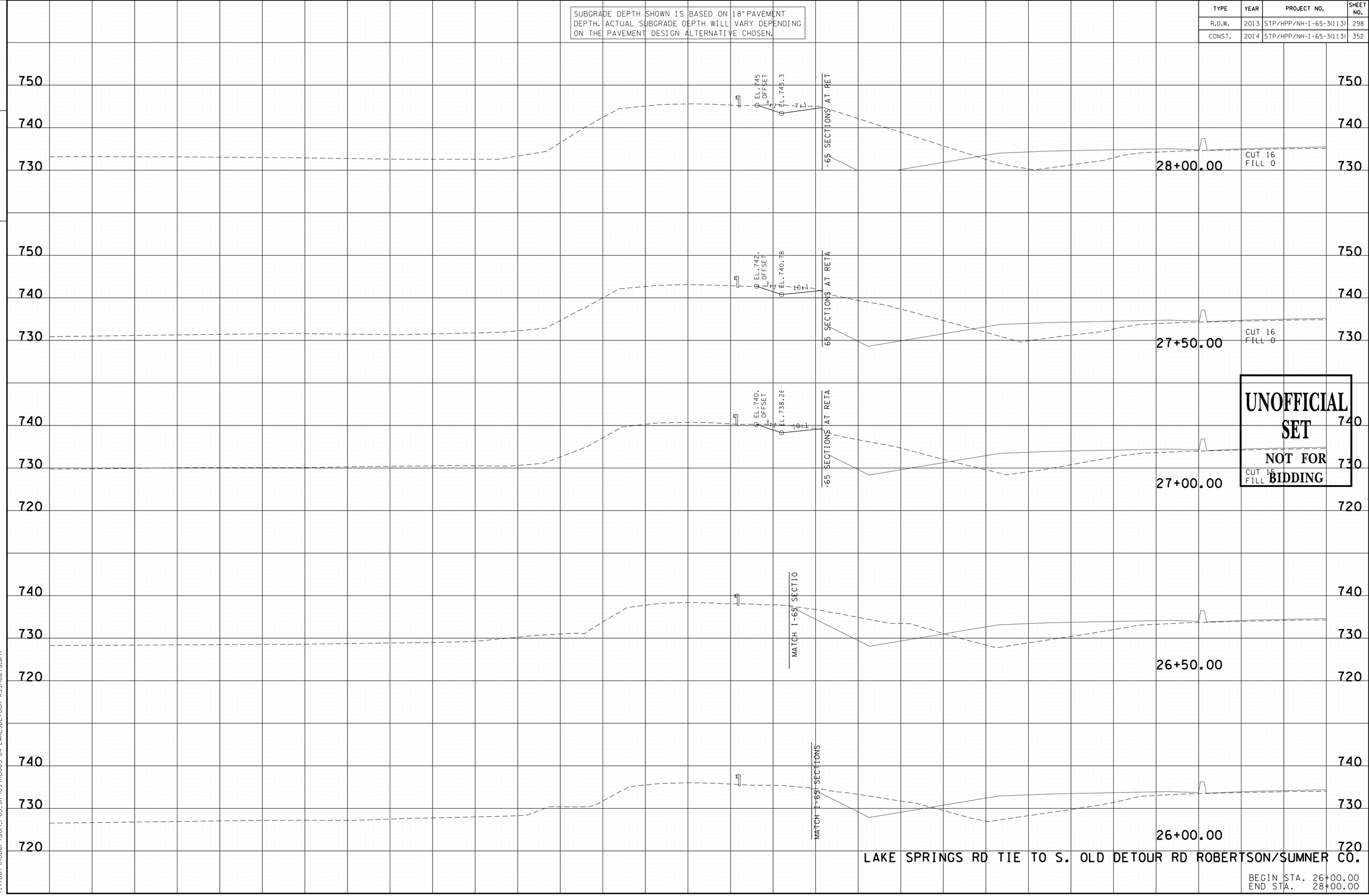
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	298
CONST.	2014	STP/HPP/NH-I-65-3(113)	352

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 26+00.00
END STA. 28+00.00

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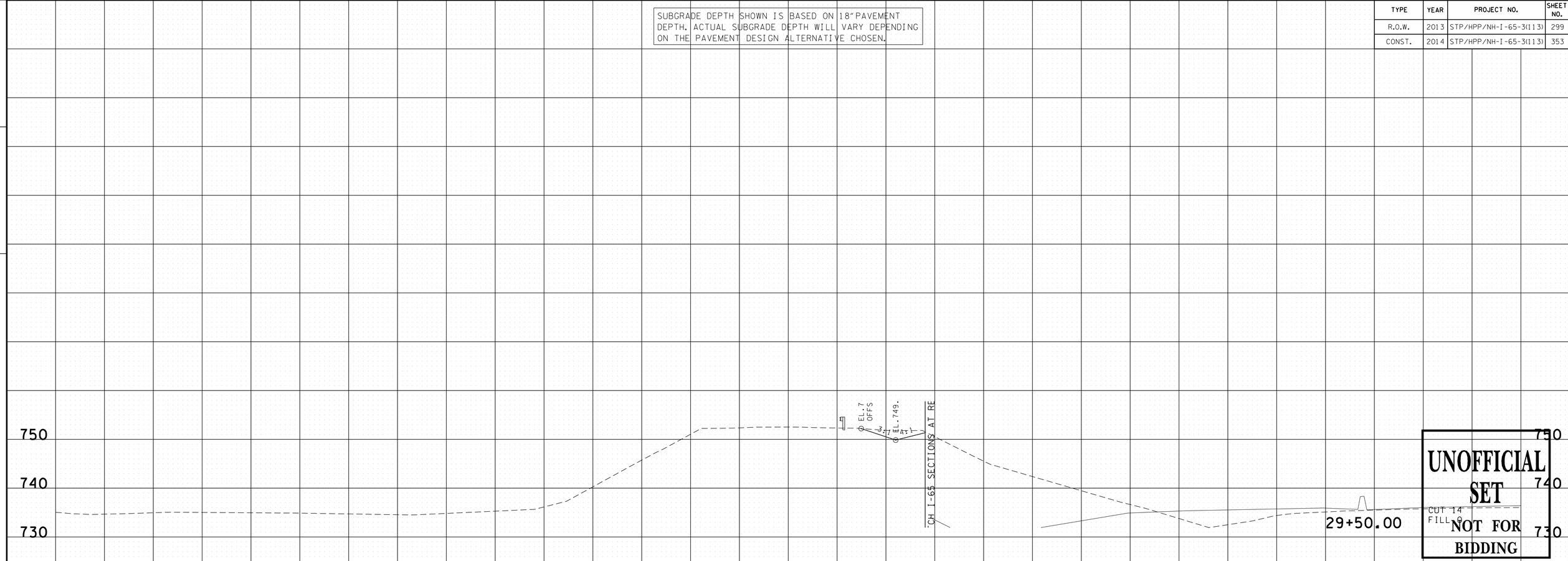
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	299
CONST.	2014	STP/HPP/NH-I-65-3(113)	353



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 28+50.00
END STA. 29+50.00

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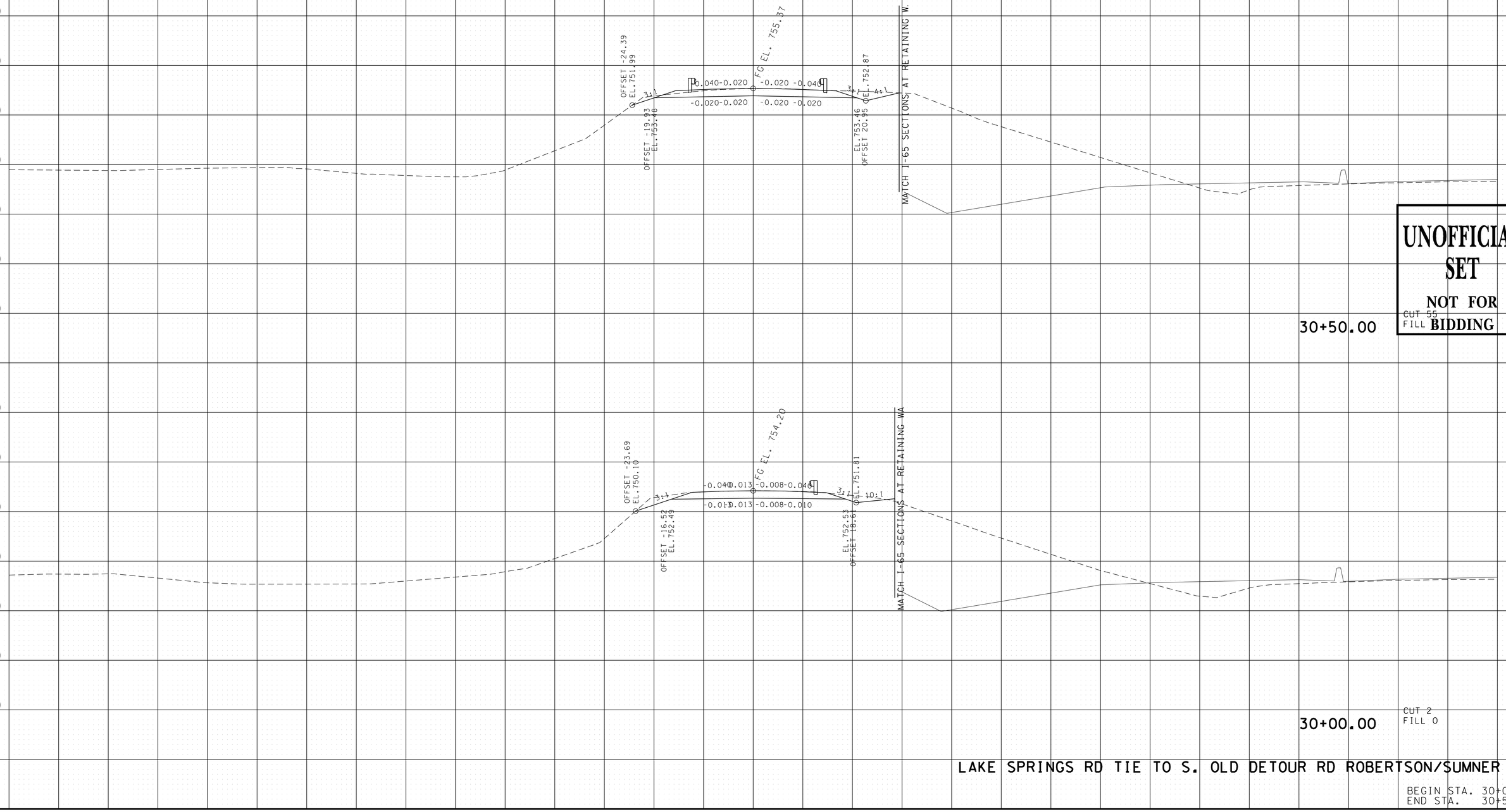
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	300
CONST.	2014	STP/HPP/NH-I-65-3(113)	354

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 30+00.00
END STA. 30+50.00

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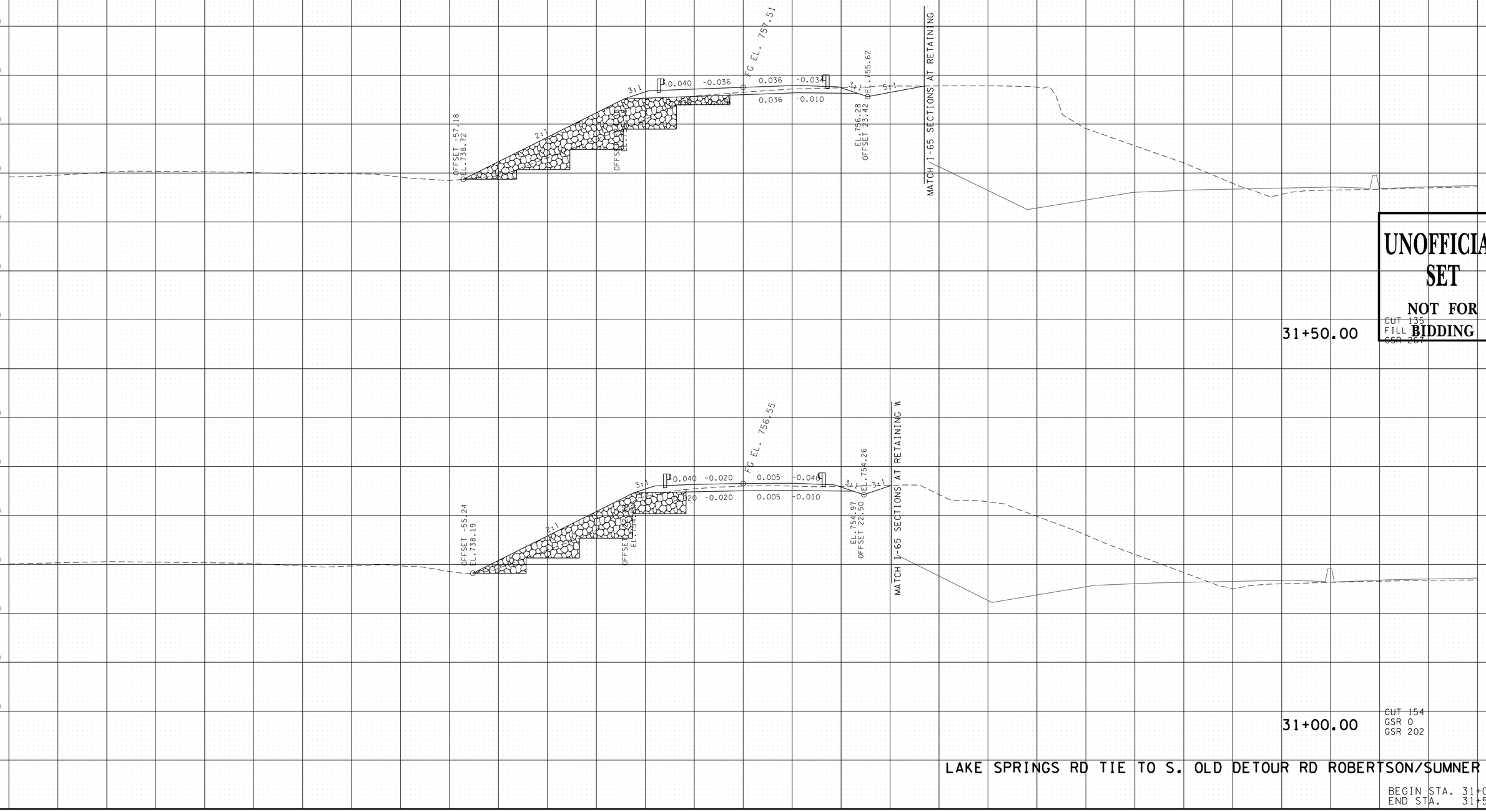
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	301
CONST.	2014	STP/HPP/NH-I-65-3(113)	355

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 31+00.00
END STA. 31+50.00

9/22/2014 10:19:56 PM
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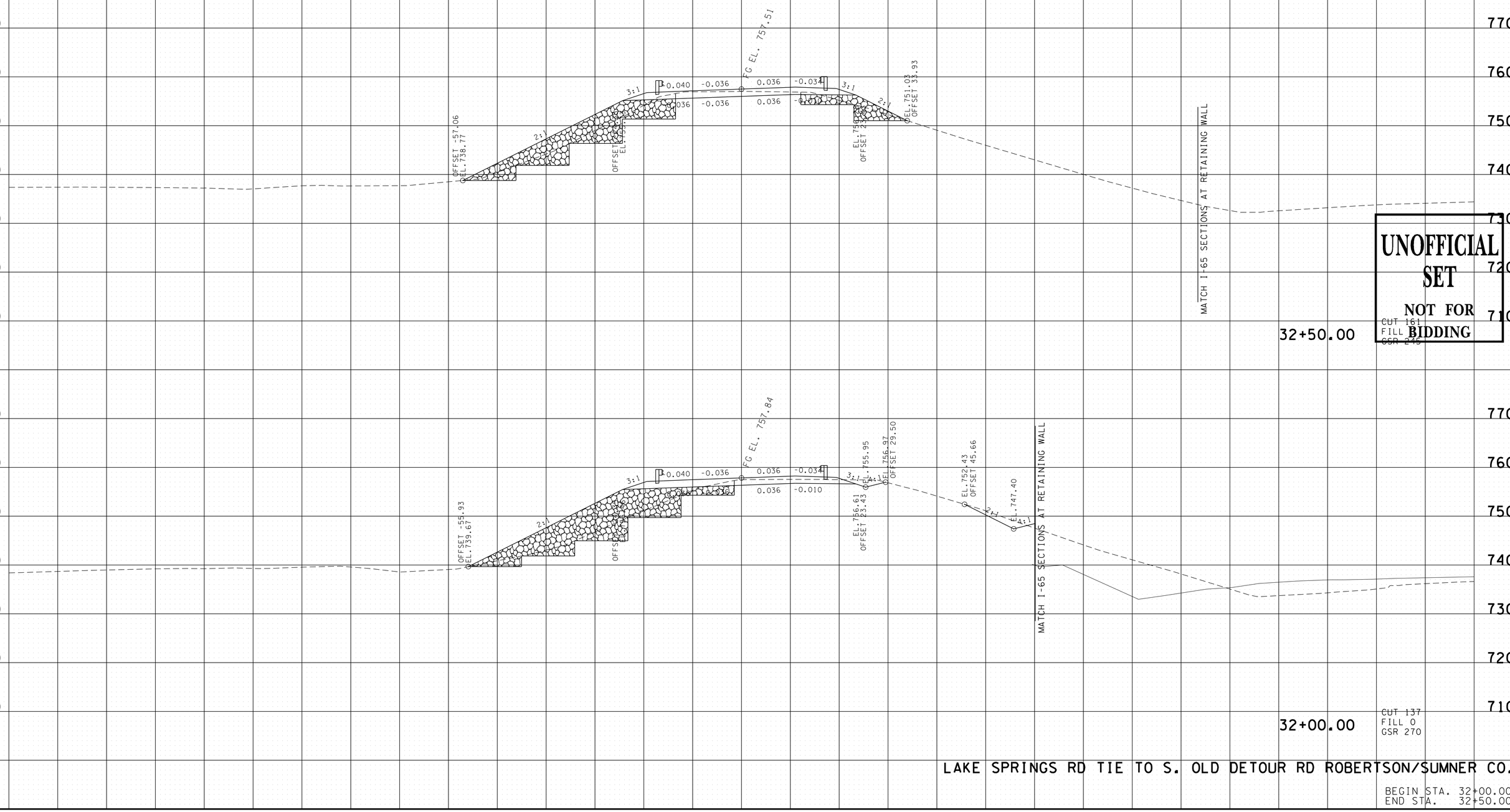
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	302
CONST.	2014	STP/HPP/NH-I-65-3(113)	356



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 32+00.00
END STA. 32+50.00

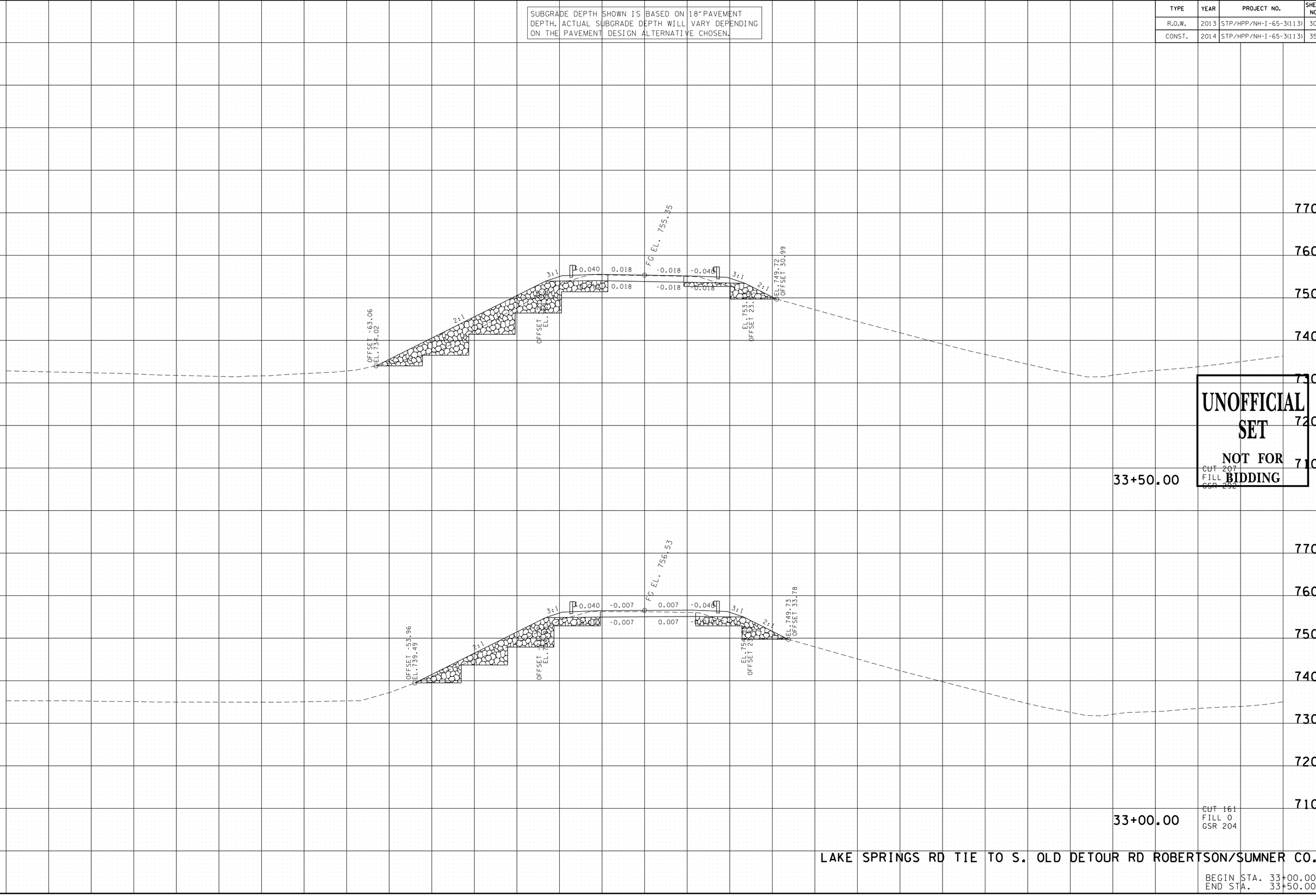
9/22/2014 10:19:57 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-LAKESDETOUR-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	303
CONST.	2014	STP/HPP/NH-I-65-3(113)	357

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 33+00.00
END STA. 33+50.00

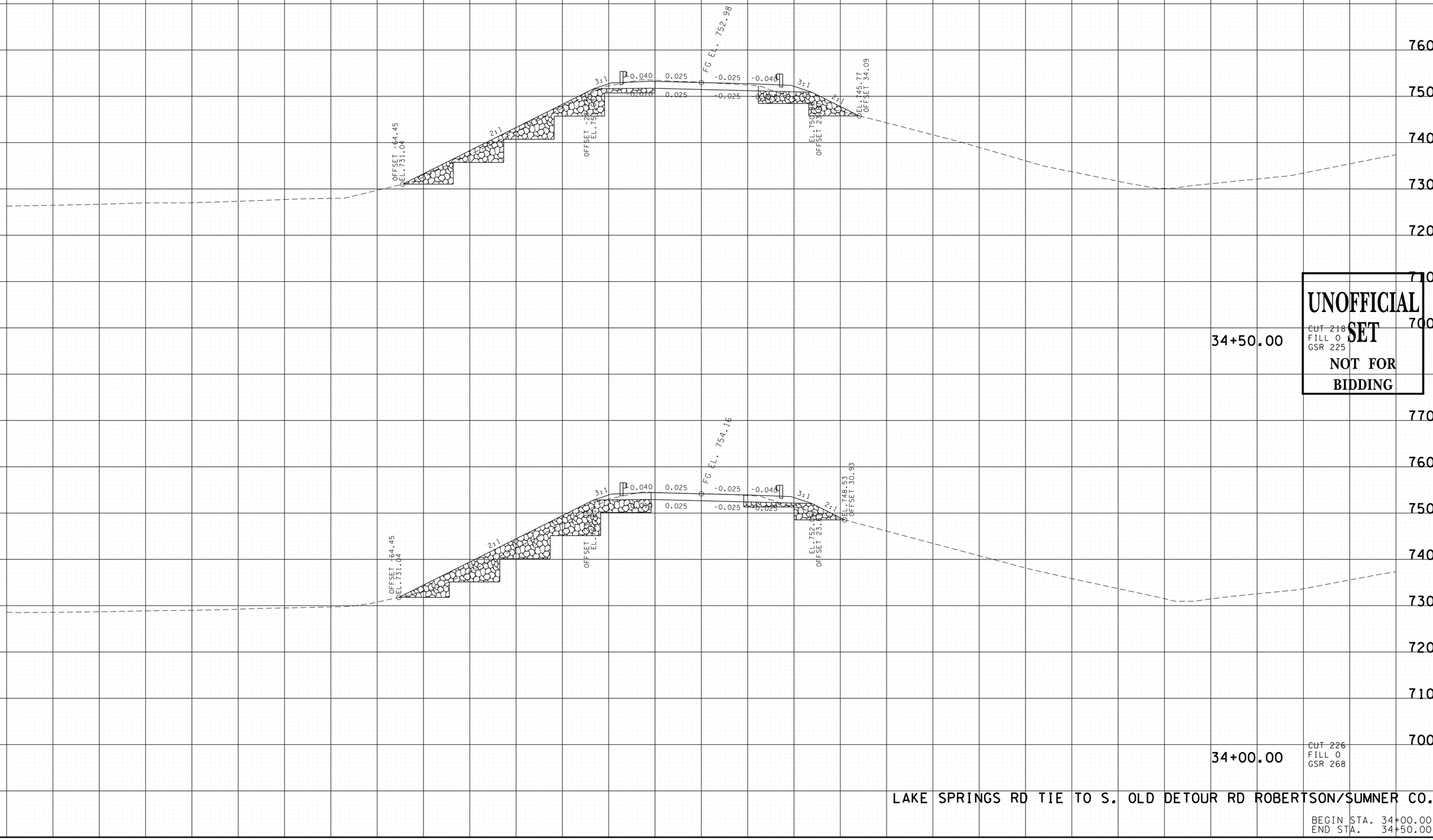
9/22/2014 10:19:58 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-LAKESDETOUR-XSSheets.sht

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	304
CONST.	2014	STP/HPP/NH-I-65-3(113)	358

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

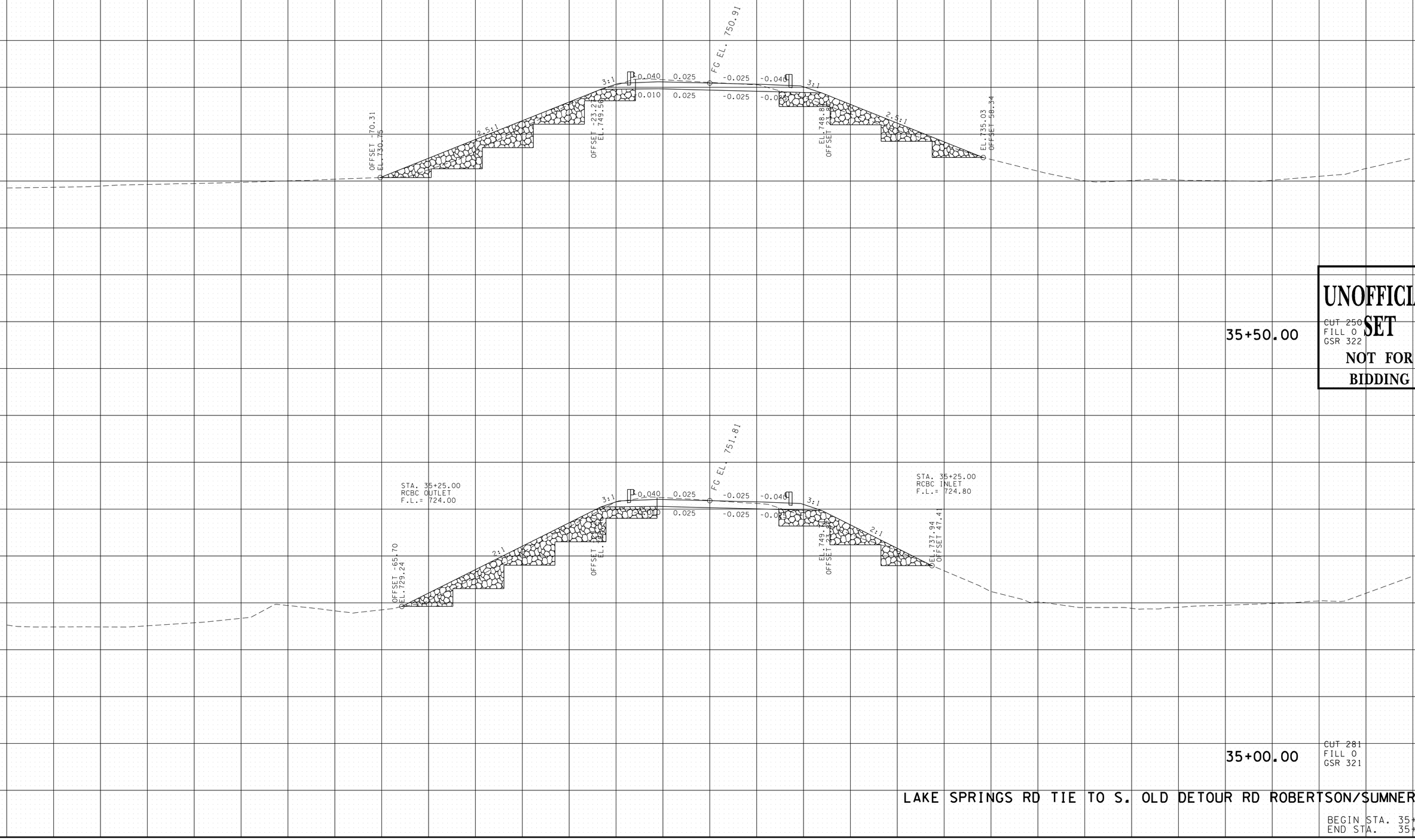
BEGIN STA. 34+00.00
END STA. 34+50.00

9/22/2014 10:19:59 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-LAKESDETOUR-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	305
CONST.	2014	STP/HPP/NH-I-65-3(113)	359

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 35+00.00
END STA. 35+50.00

9/22/2014 10:20:00 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-LAKESDETOUR-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

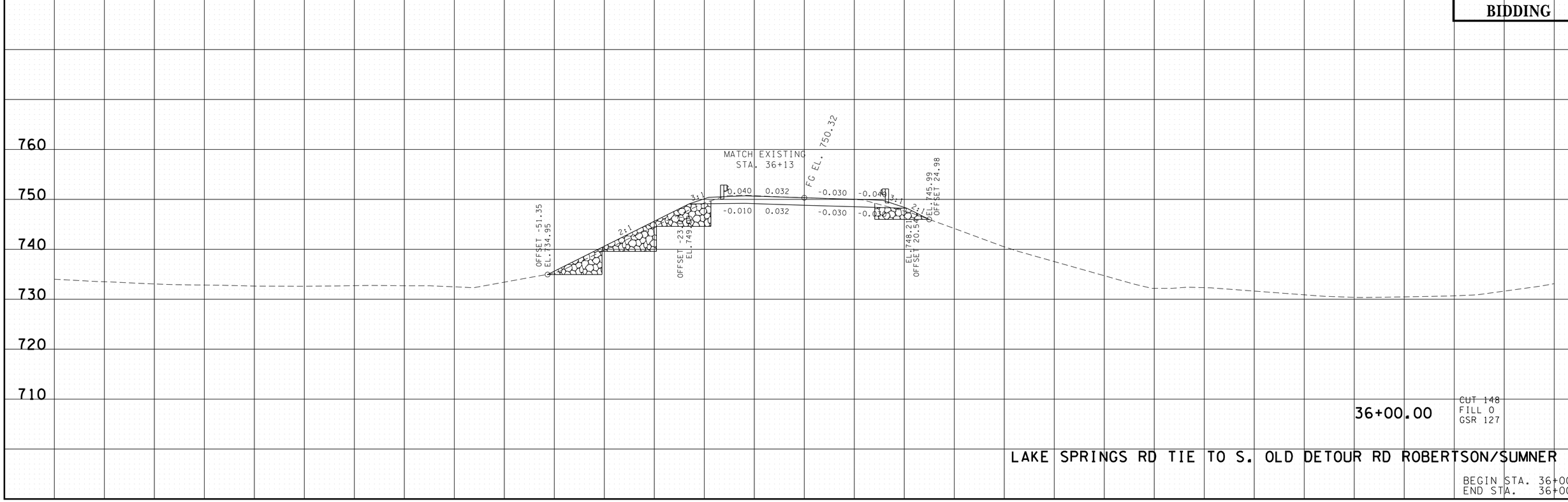
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	306
CONST.	2014	STP/HPP/NH-I-65-3(113)	360

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

UNOFFICIAL SET

NOT FOR BIDDING



36+00.00

CUT 148
FILL 0
GSR 127

LAKE SPRINGS RD TIE TO S. OLD DETOUR RD ROBERTSON/SUMNER CO.

BEGIN STA. 36+00.00
END STA. 36+00.00

9/22/2014 10:20:01 PM
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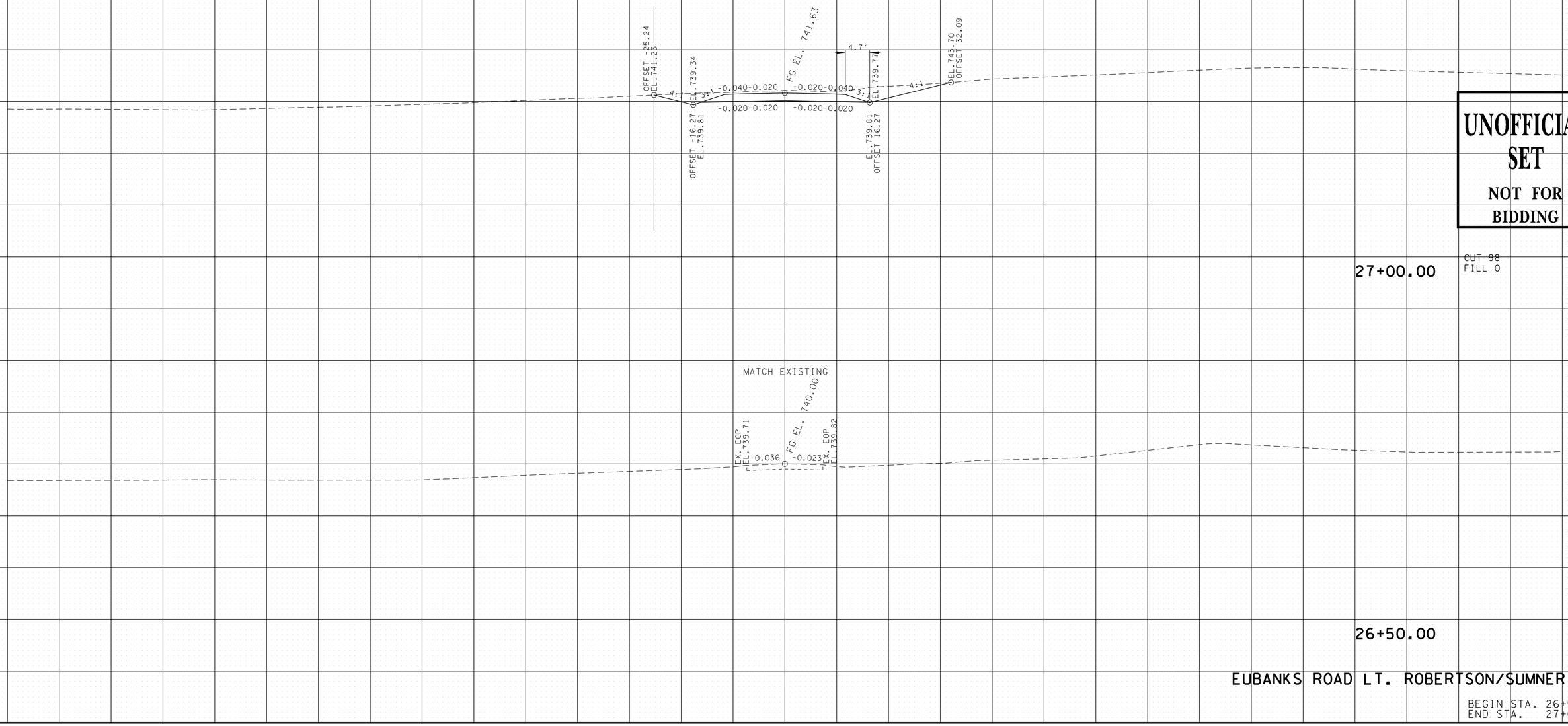
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	307
CONST.	2014	STP/HPP/NH-I-65-3(113)	361

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



CUT 98
FILL 0

27+00.00

26+50.00

UNOFFICIAL SET
NOT FOR BIDDING

EUBANKS ROAD LT. ROBERTSON/SUMNER CO.

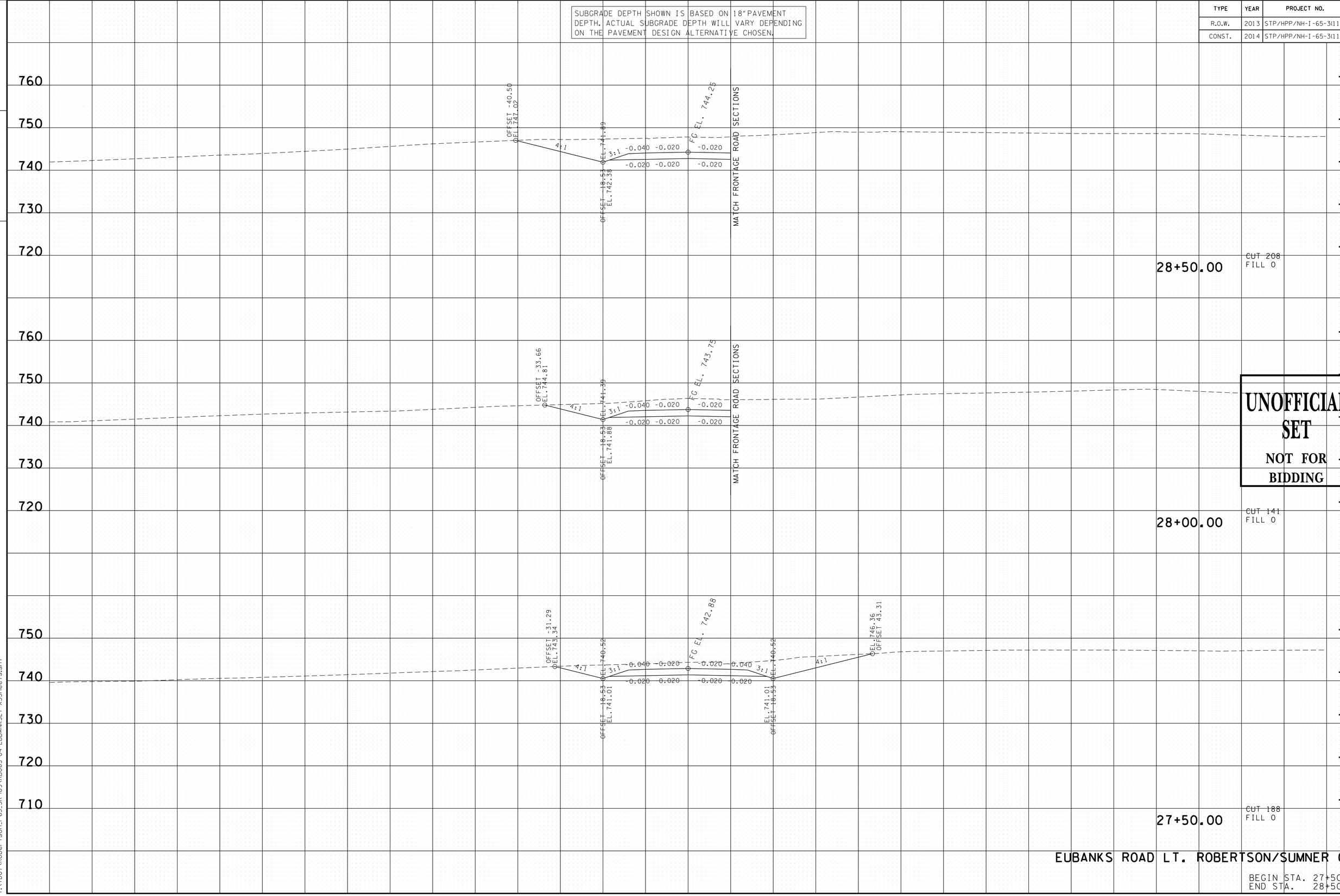
BEGIN STA. 26+50.00
END STA. 27+00.00

9/22/2014 10:20:02 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-EUBANKSLT-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	308
CONST.	2014	STP/HPP/NH-I-65-3(113)	362

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

EUBANKS ROAD LT. ROBERTSON/SUMNER CO.

BEGIN STA. 27+50.00
END STA. 28+50.00

9/22/2014 10:20:02 PM
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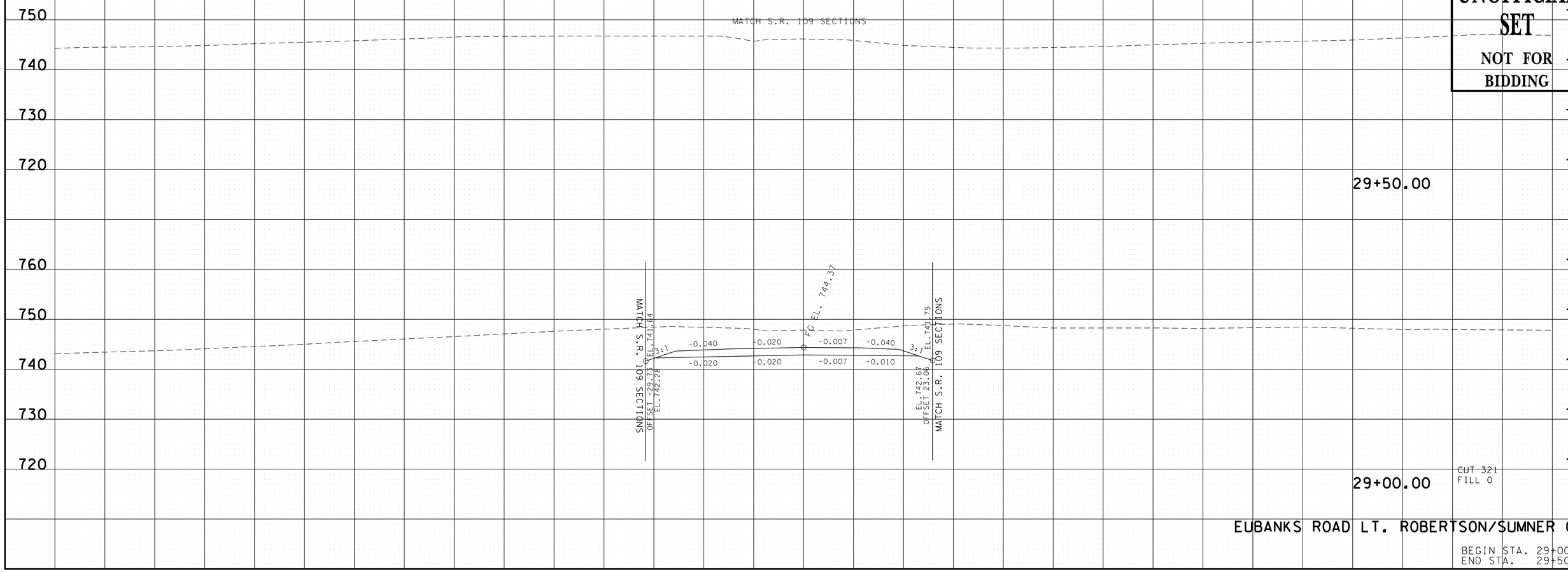
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	309
CONST.	2014	STP/HPP/NH-I-65-3(113)	363

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

EUBANKS ROAD LT. ROBERTSON/SUMNER CO.

BEGIN STA. 29+00.00
END STA. 29+50.00

9/22/2014 10:20:03 PM
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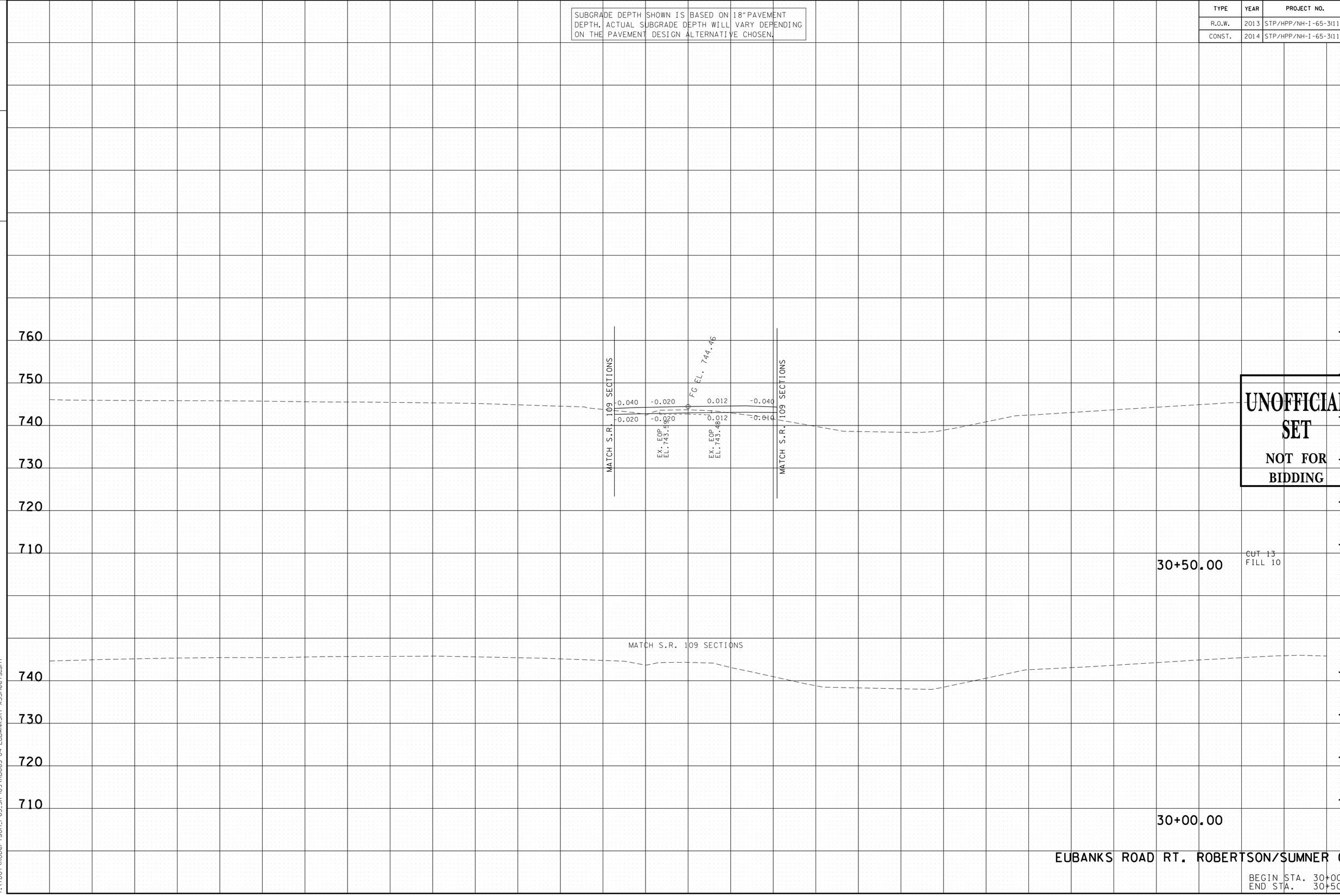
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	310
CONST.	2014	STP/HPP/NH-I-65-3(113)	364

SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

EUBANKS ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 30+00.00
END STA. 30+50.00

9/22/2014 10:20:04 PM
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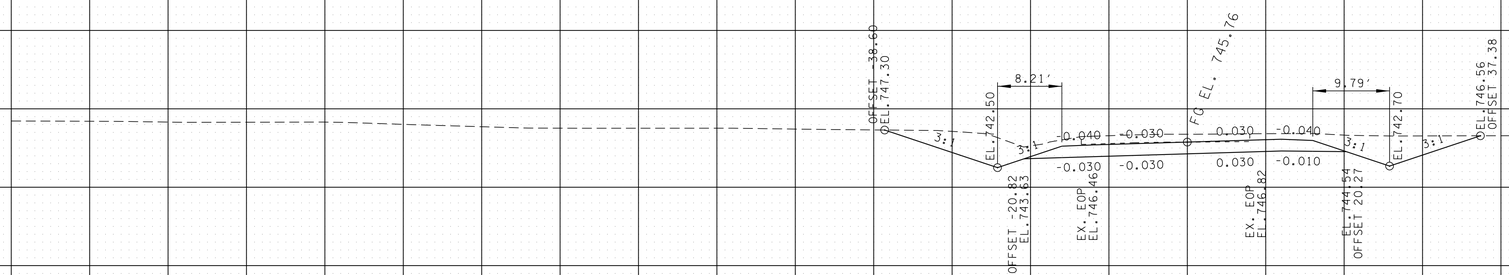
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	311
CONST.	2014	STP/HPP/NH-I-65-3(113)	365

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

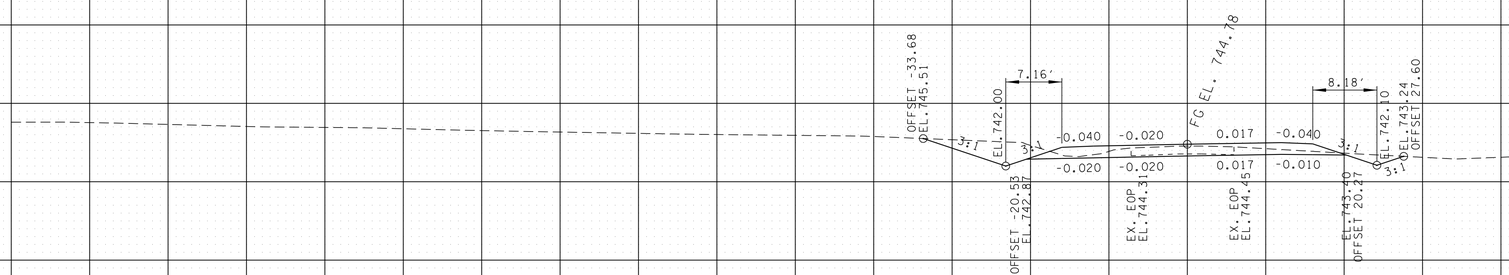
SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



31+50.00

CUT 176
FILL 0

UNOFFICIAL SET
NOT FOR BIDDING



31+00.00

CUT 63
FILL 0

EUBANKS ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 31+00.00
END STA. 31+50.00

9/22/2014 10:20:05 PM
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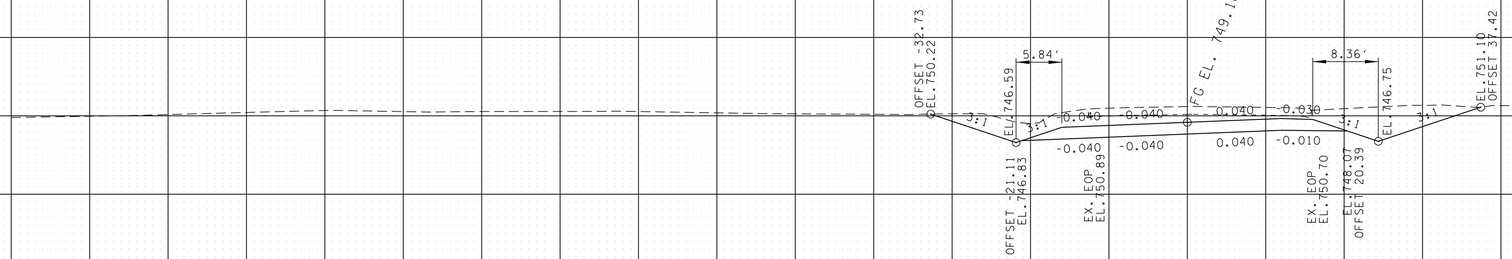
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	312
CONST.	2014	STP/HPP/NH-I-65-3(113)	366

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

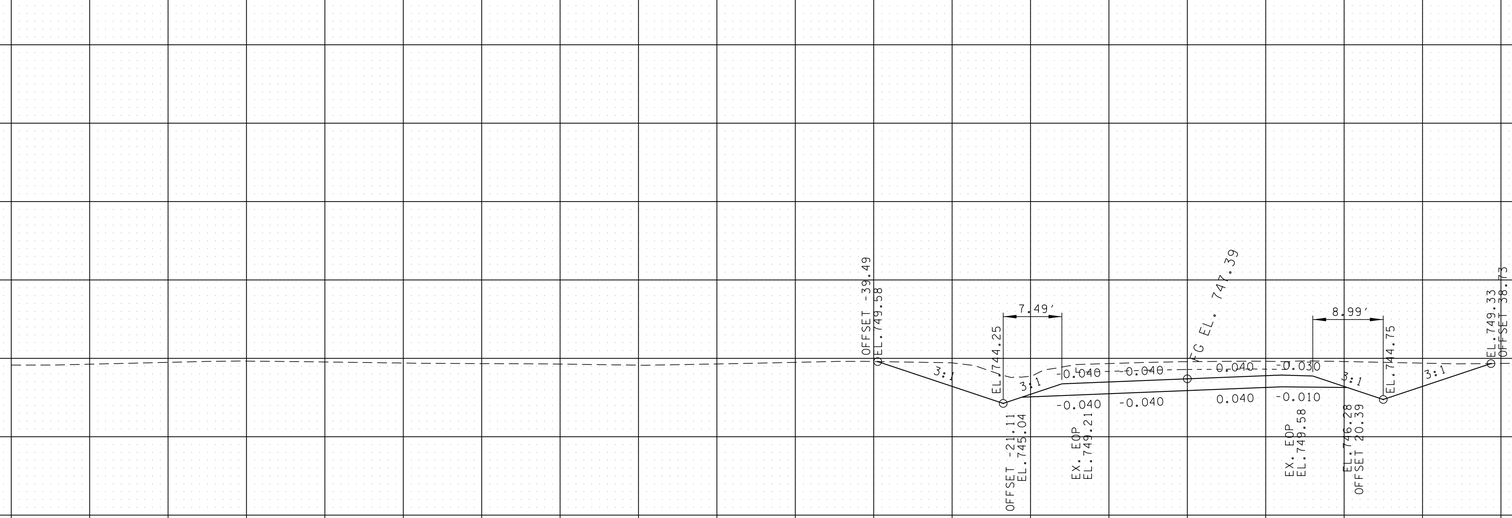
SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



32+50.00

CUT 198
FILL 0

UNOFFICIAL SET
NOT FOR BIDDING



32+00.00

CUT 241
FILL 0

EUBANKS ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 32+00.00
END STA. 32+50.00

9/22/2014 10:20:06 PM
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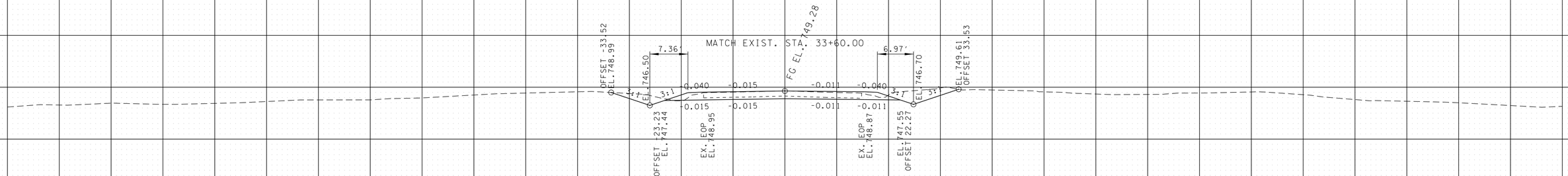
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	313
CONST.	2014	STP/HPP/NH-I-65-3(113)	367

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

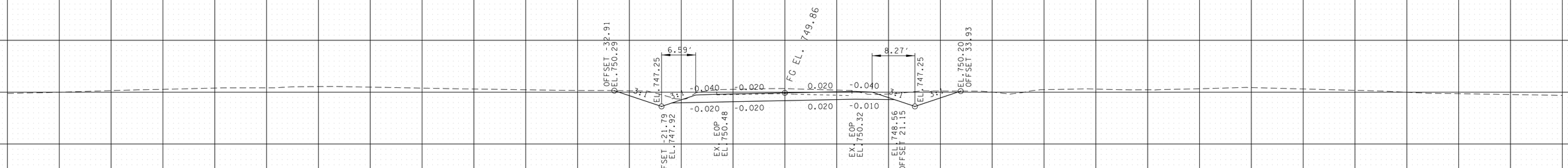
SUBGRADE DEPTH SHOWN IS BASED ON 18"PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



33+50.00

CUT 83
FILL 0

UNOFFICIAL SET
NOT FOR BIDDING



33+00.00

CUT 116
FILL 0

EUBANKS ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 33+00.00
END STA. 33+50.00

9/22/2014 10:20:07 PM
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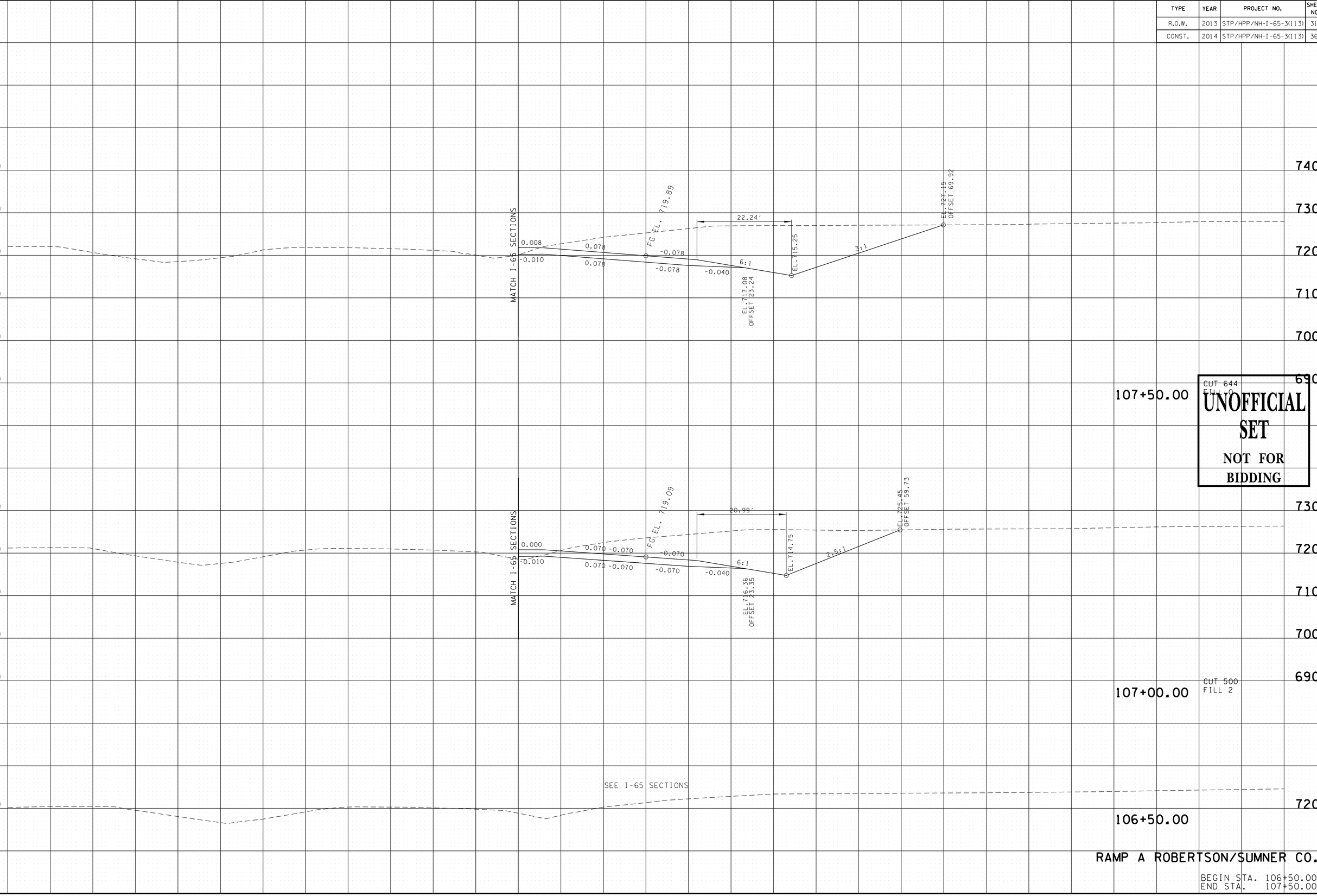
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	314
CONST.	2014	STP/HPP/NH-I-65-3(113)	368

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

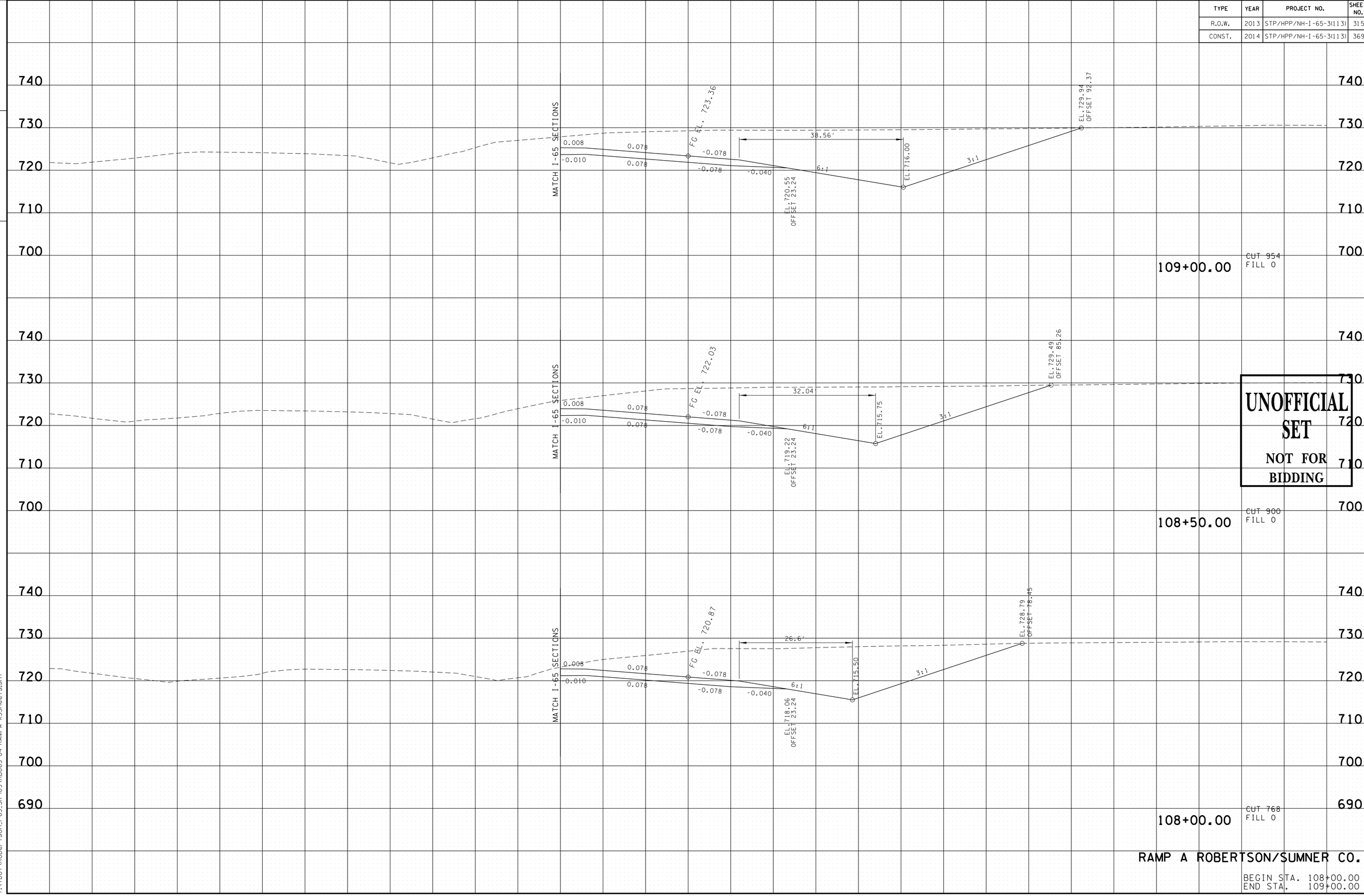
RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 106+50.00
END STA. 107+50.00

9/22/2014 10:20:08 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPA-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	315
CONST.	2014	STP/HPP/NH-I-65-3(113)	369

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 108+00.00
END STA. 109+00.00

9/22/2014 10:20:09 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	316
CONST.	2014	STP/HPP/NH-I-65-3(113)	370

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

740
730
720
710
700

MATCH I-65 SECTIONS

-0.005
-0.010
0.065 -0.065
0.065 -0.065
FG EL. 728.44
-0.065
-0.065
-0.040
6:1
39.97'
EL.725.75
OFFSET 28.44
EL. 721.00
2.5:1
EL. 728.66
OFFSET 71.14

110+50.00
CUT 278
FILL 5

STA. 110+35.00
PIPE INLET
F.L.= 718.50

MATCH I-65 SECTIONS

0.006
-0.010
0.076 -0.076
0.076 -0.076
FG EL. 726.57
-0.076
-0.076
-0.040
6:1
39.95'
EL.723.78
OFFSET 23.27
EL. 719.00
3:1
EL.729.52
OFFSET 83.50

110+00.00
CUT 575
FILL 0

STA. 109+50.00
PIPE OUTLET
F.L.= 717.70

MATCH I-65 SECTIONS

0.008
-0.010
0.078
0.078
FG EL. 724.88
-0.078
-0.078
-0.040
6:1
EL.722.07
OFFSET 23.24
EL. 717.70
3:1
EL.730.49
OFFSET 87.80

109+50.00
CUT 784
FILL 0

UNOFFICIAL SET
NOT FOR BIDDING

RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 109+50.00
END STA. 110+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:20:0 PM
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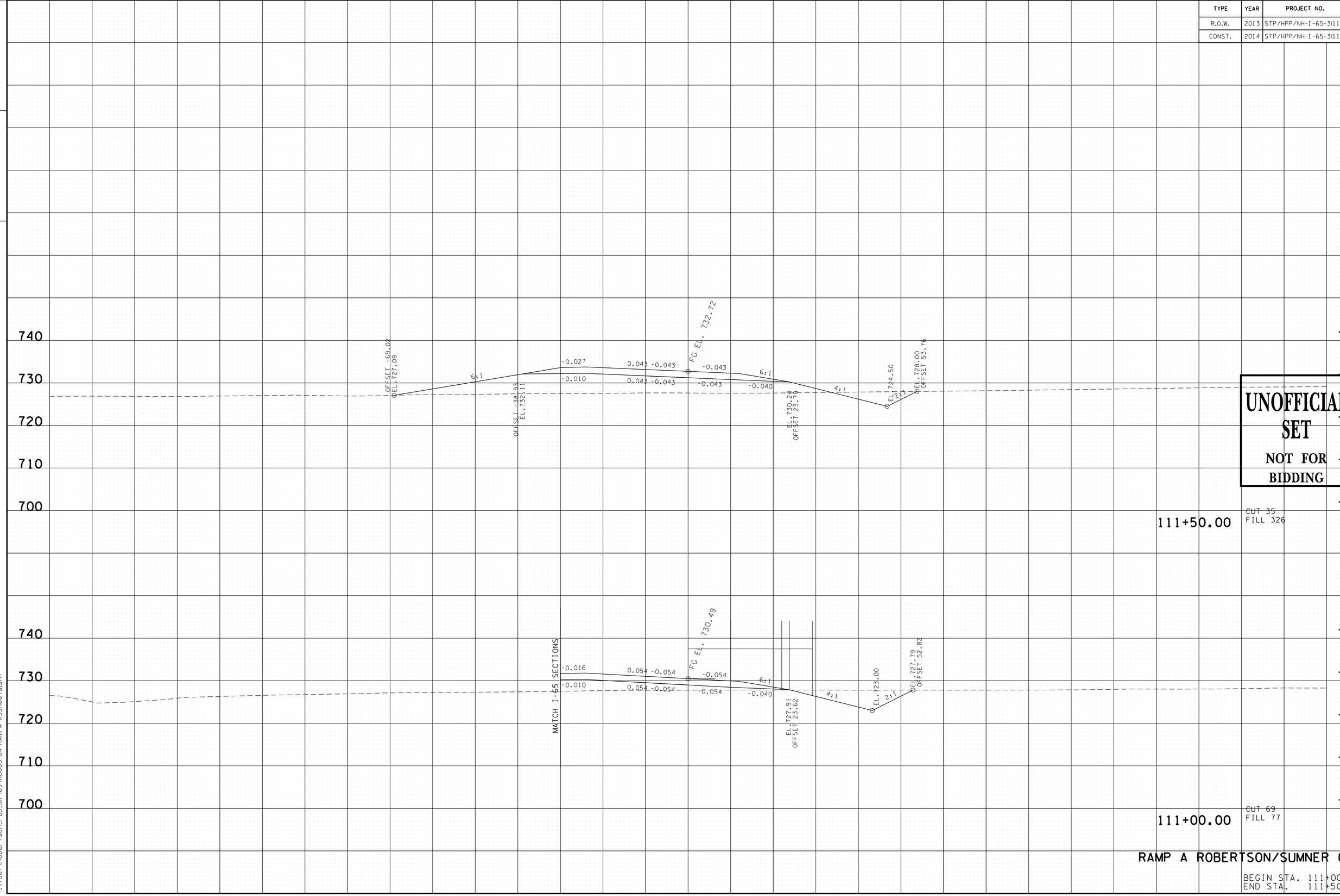
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	317
CONST.	2014	STP/HPP/NH-I-65-3(113)	371

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 111+00.00
END STA. 111+50.00

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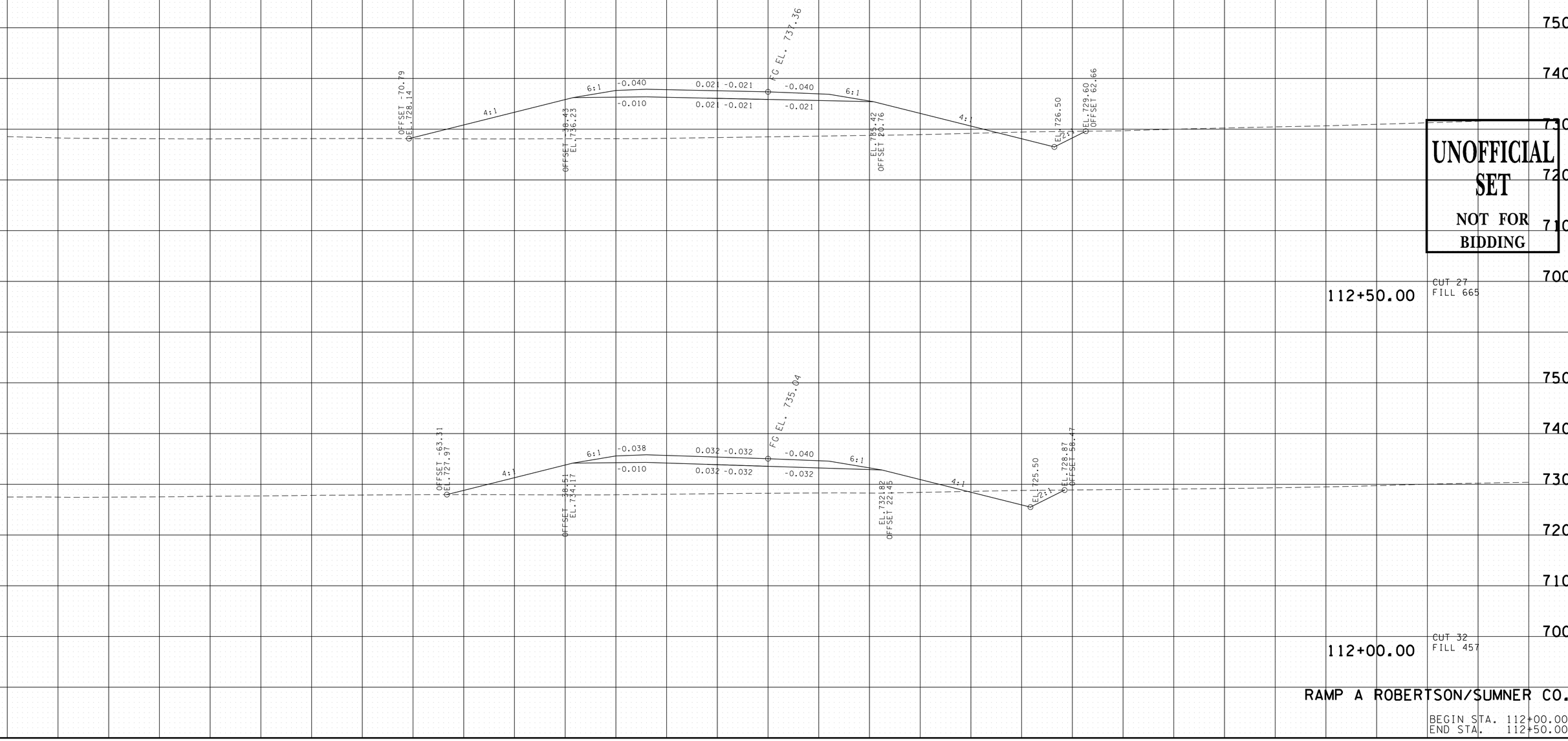
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	318
CONST.	2014	STP/HPP/NH-I-65-3(113)	372

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 112+00.00
END STA. 112+50.00

9/22/2014 10:20:12 PM
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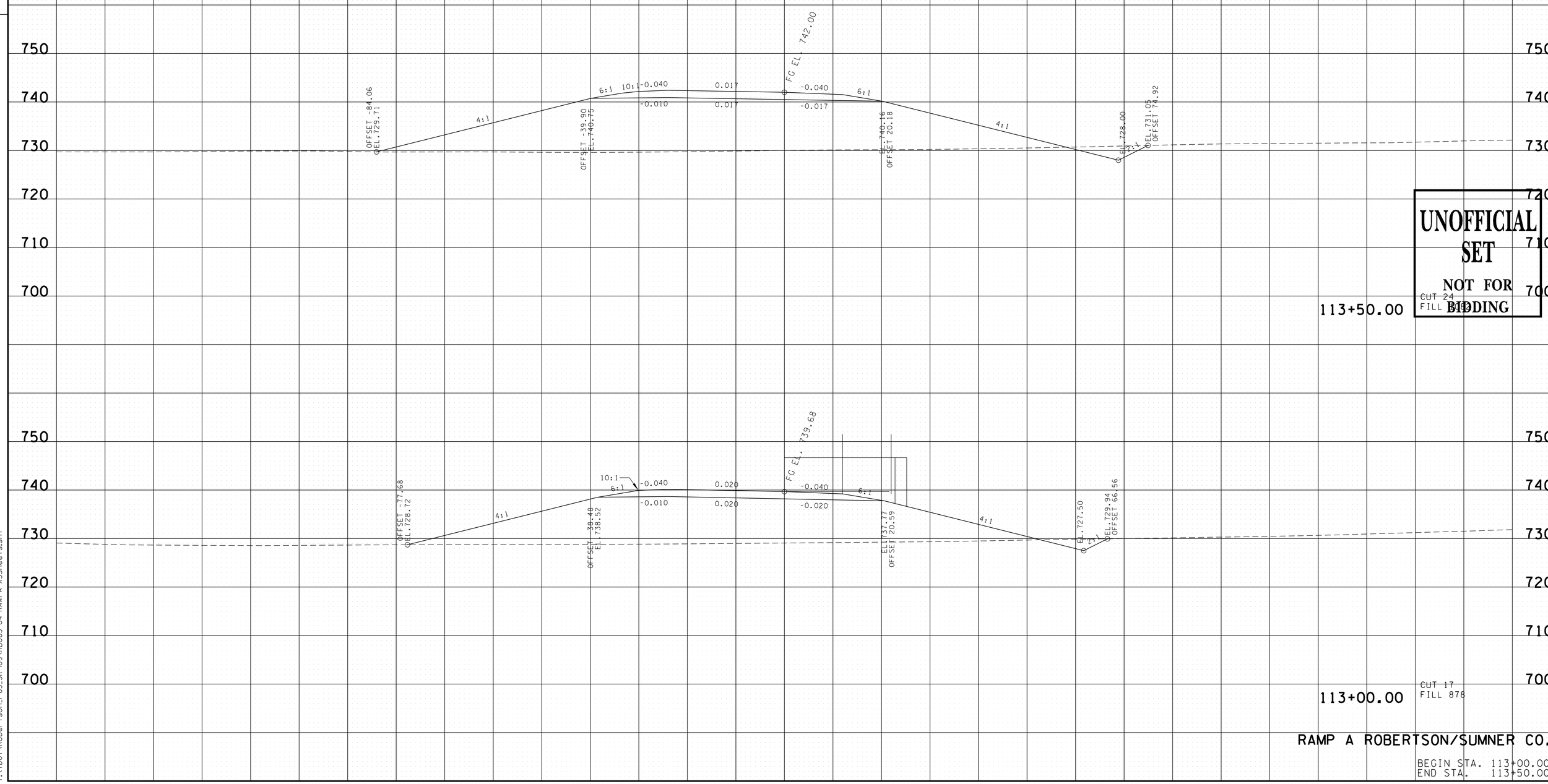
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	319
CONST.	2014	STP/HPP/NH-I-65-3(113)	373

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 113+00.00
END STA. 113+50.00

9/22/2014 10:20:12 PM
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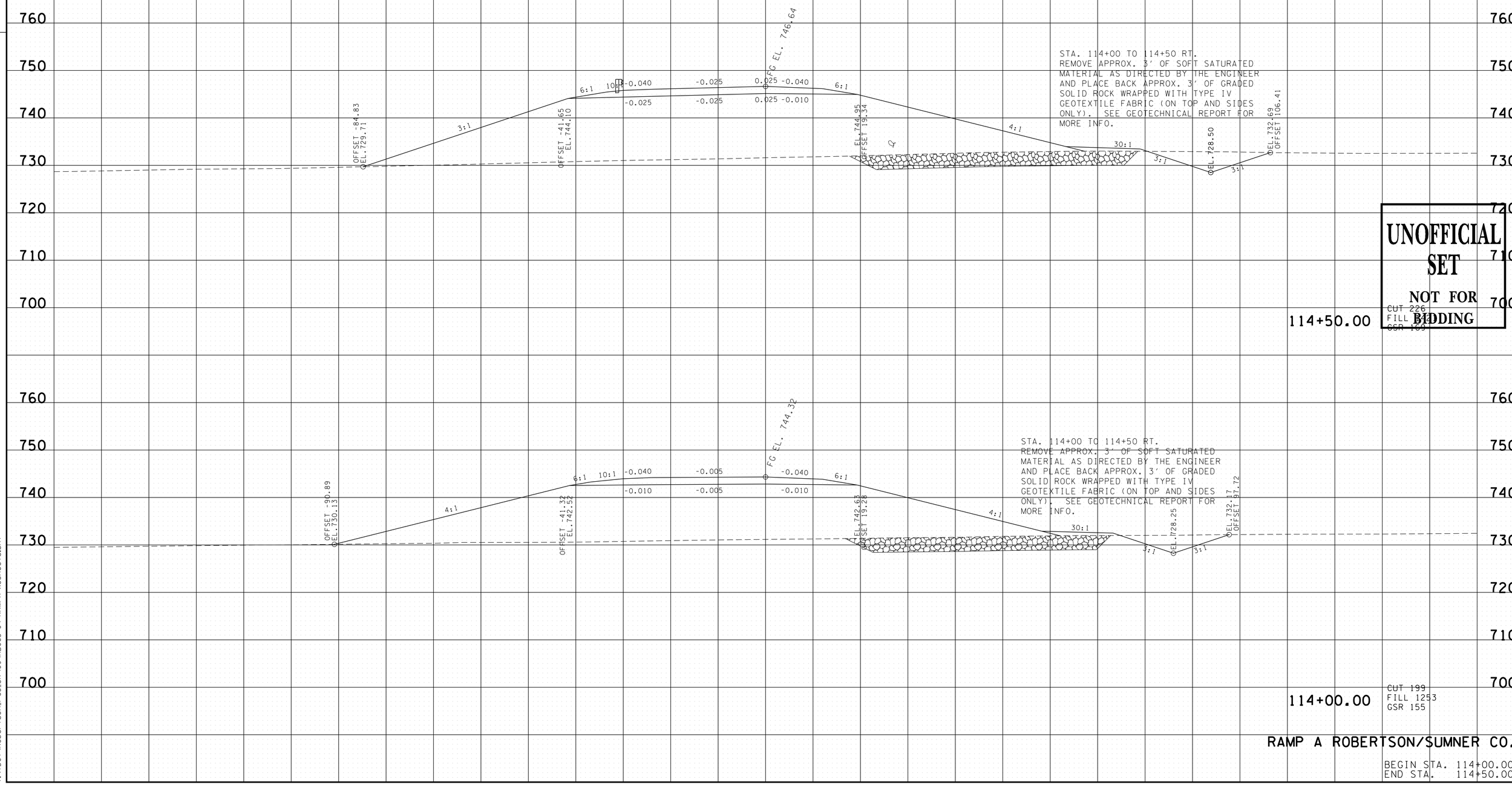
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	320
CONST.	2014	STP/HPP/NH-I-65-3(113)	374

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 114+00.00
END STA. 114+50.00

9/22/2014 10:20:13 PM
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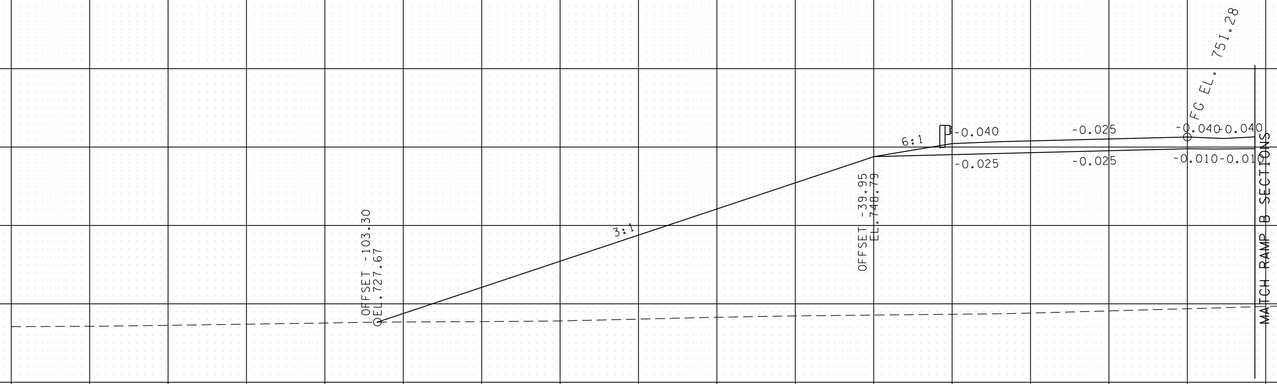
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	321
CONST.	2014	STP/HPP/NH-I-65-3(113)	375

TENNESSEE D.O.T.
DESIGN DIVISION

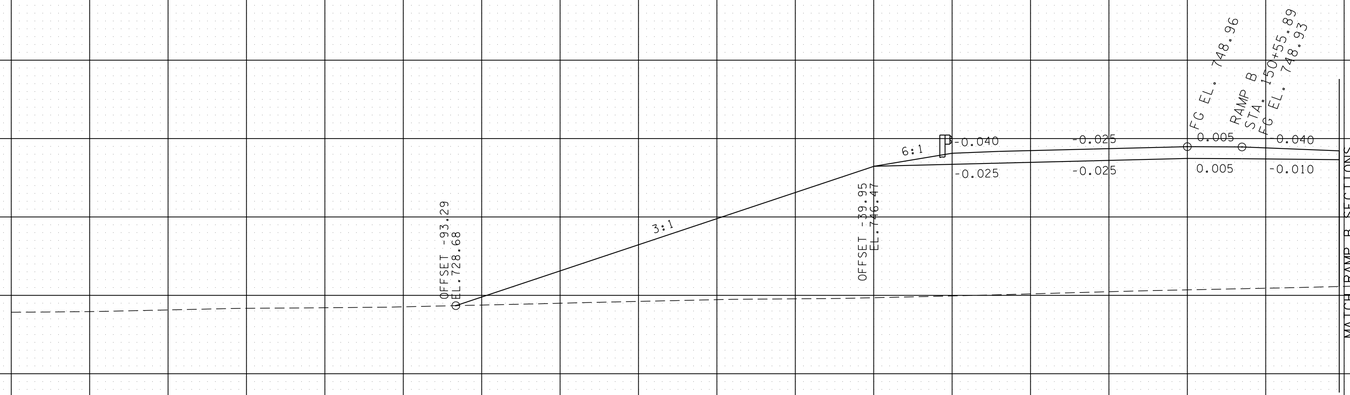
FILE NO.



115+50.00

CUT 0
FILL 161

UNOFFICIAL SET
NOT FOR BIDDING



115+00.00

CUT 0
FILL 1434

RAMP A ROBERTSON/SUMNER CO.

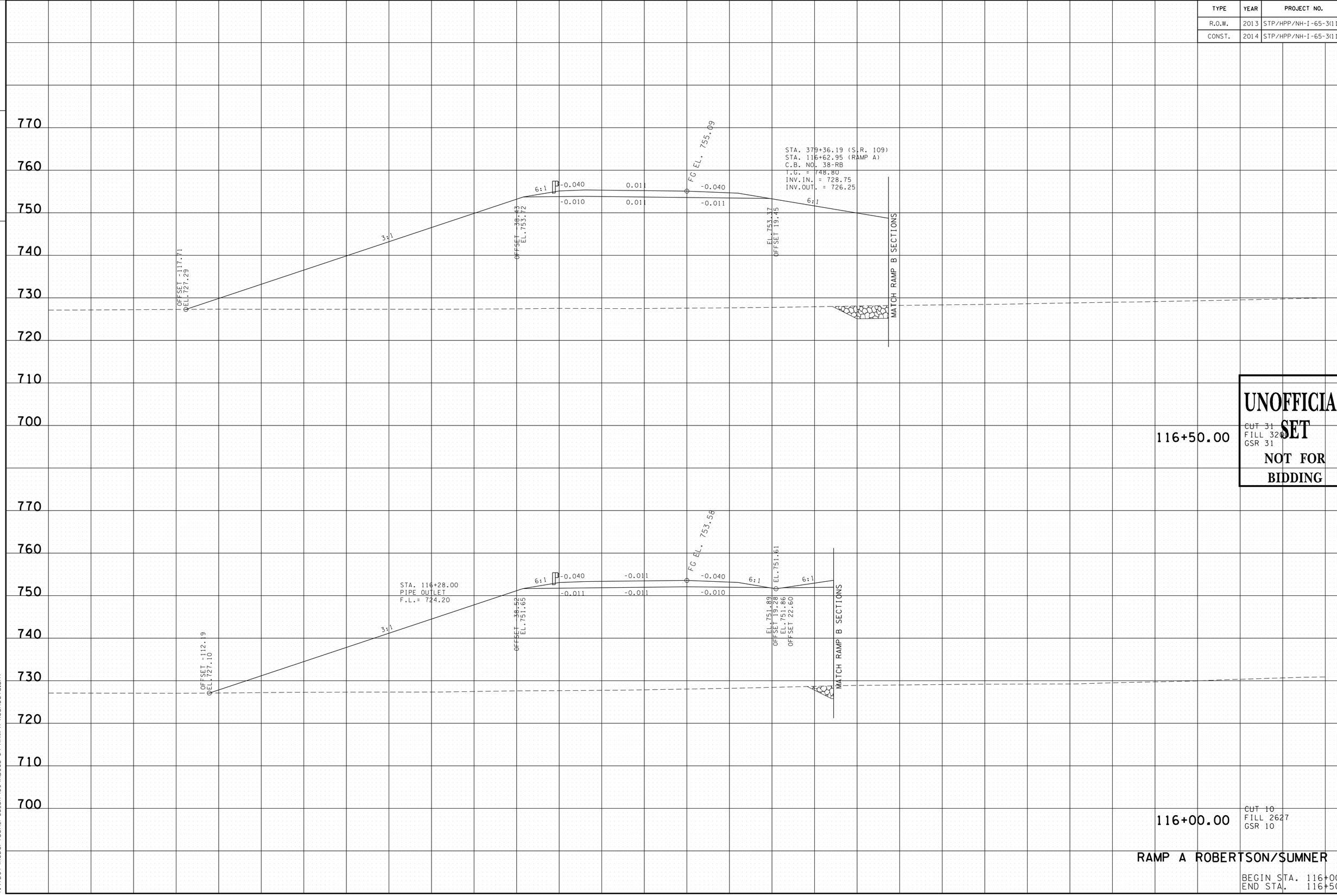
BEGIN STA. 115+00.00
END STA. 115+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:20:14 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPA-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	322
CONST.	2014	STP/HPP/NH-I-65-3(113)	376

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 116+00.00
END STA. 116+50.00

9/22/2014 10:20:15 PM
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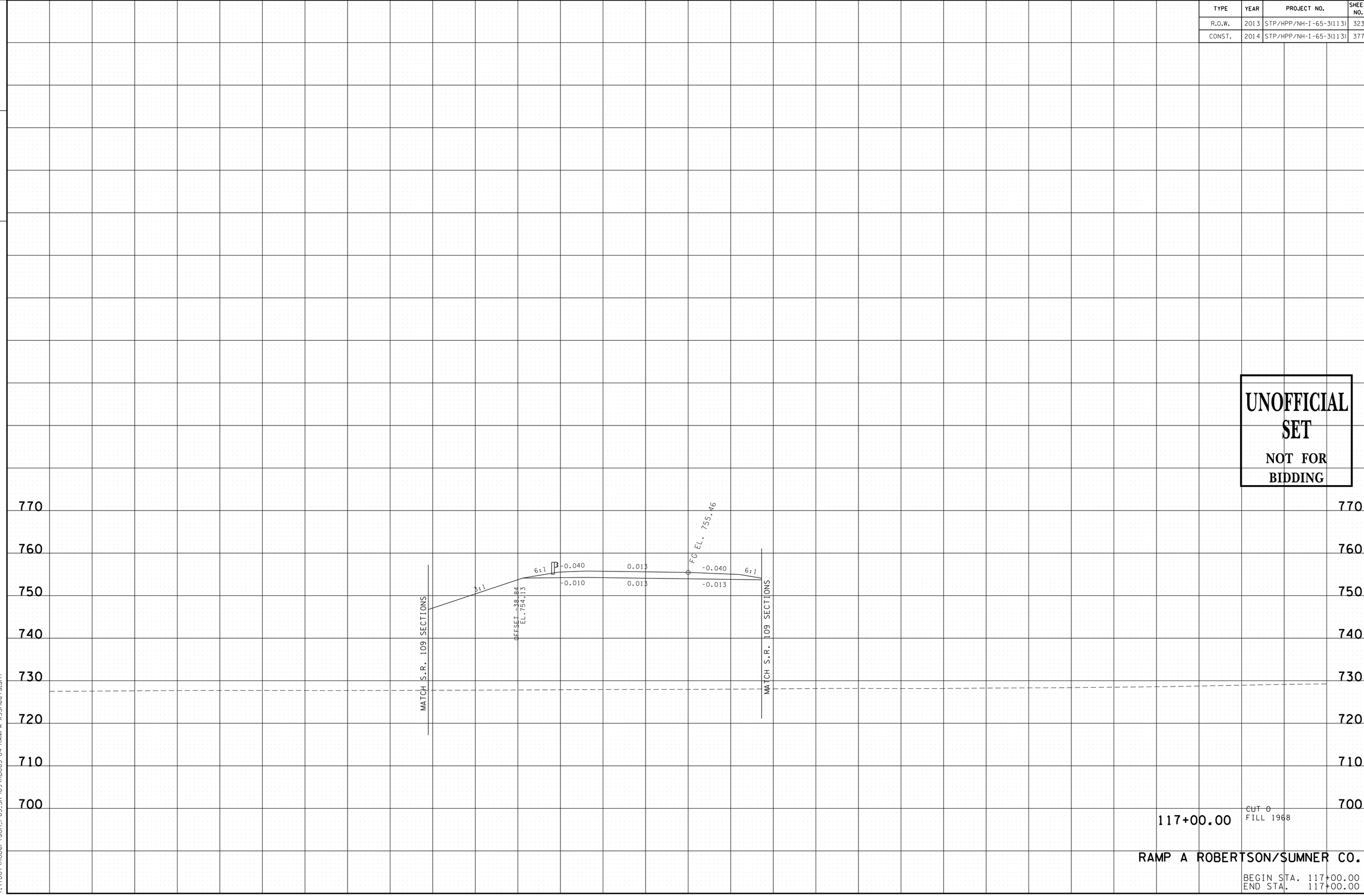
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	323
CONST.	2014	STP/HPP/NH-I-65-3(113)	377

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

117+00.00

CUT 0
FILL 1968

RAMP A ROBERTSON/SUMNER CO.

BEGIN STA. 117+00.00
END STA. 117+00.00

9/22/2014 10:20:16 PM
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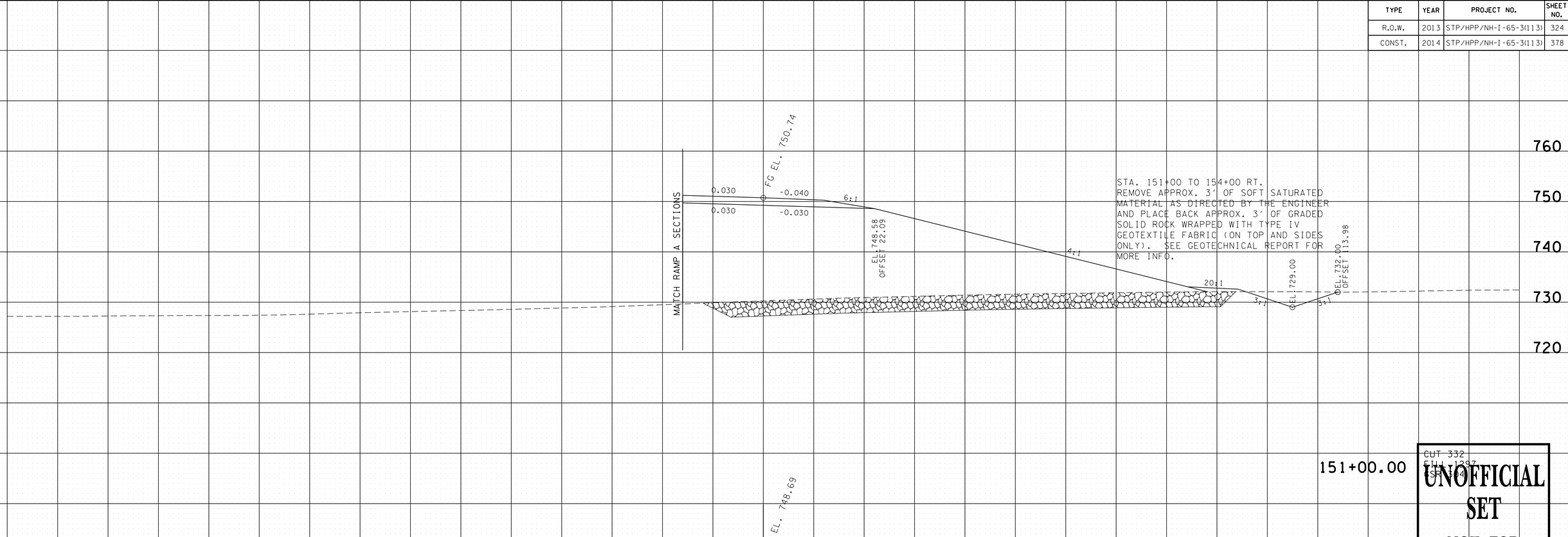
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	324
CONST.	2014	STP/HPP/NH-I-65-3(113)	378

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

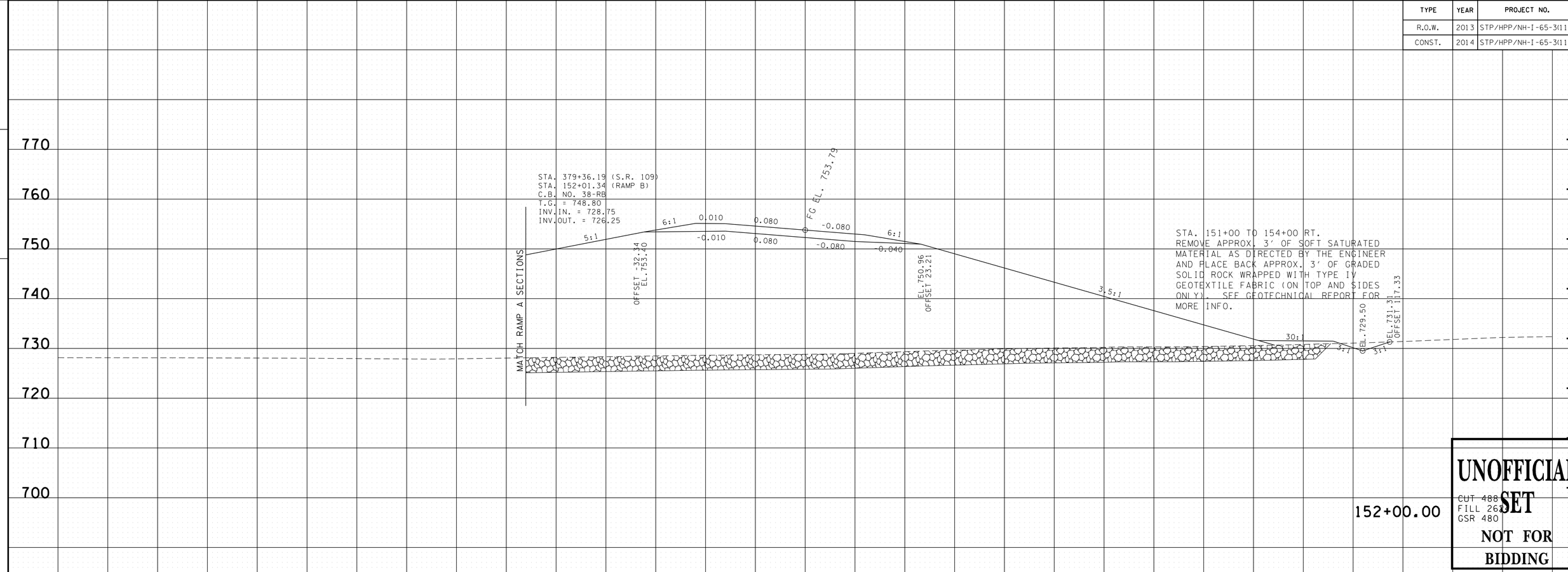
RAMP B ROBERTSON/SUMNER CO.

BEGIN STA. 150+00.00
END STA. 151+00.00

9/22/2014 10:20:17 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPB-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	325
CONST.	2014	STP/HPP/NH-I-65-3(113)	379

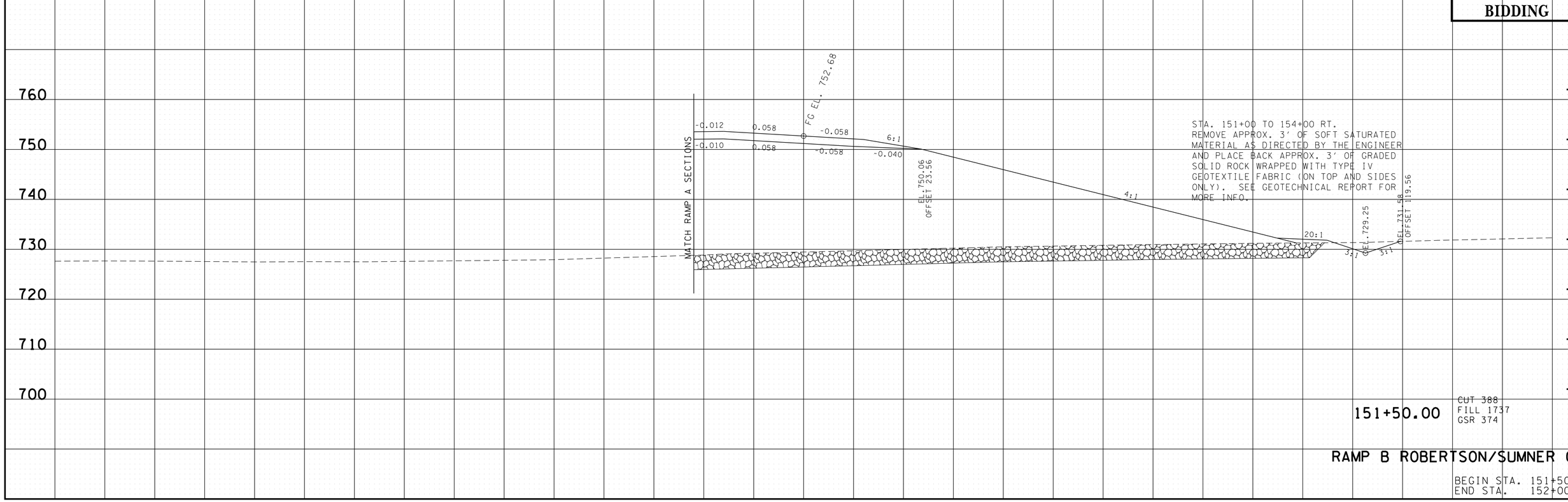
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



152+00.00

CUT 488
FILL 262
GSR 480

UNOFFICIAL SET
NOT FOR BIDDING



151+50.00

CUT 388
FILL 1737
GSR 374

RAMP B ROBERTSON/SUMNER CO.

BEGIN STA. 151+50.00
END STA. 152+00.00

9/22/2014 10:20:18 PM
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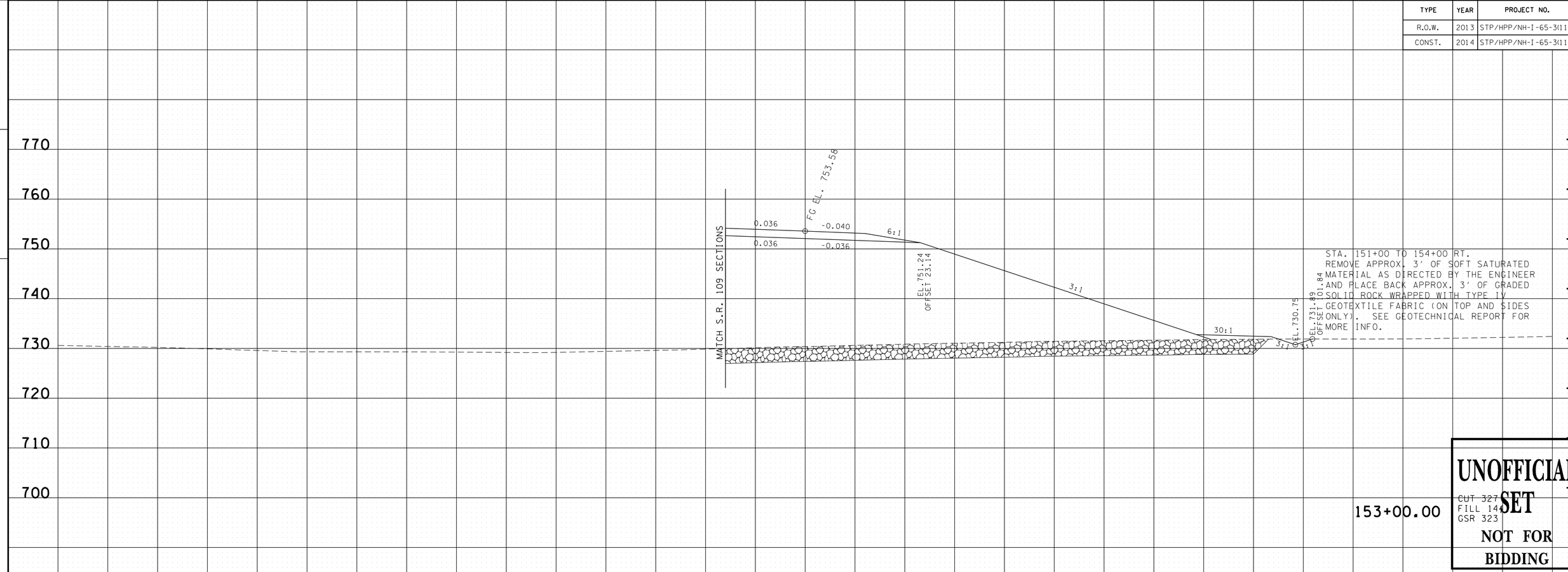
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	326
CONST.	2014	STP/HPP/NH-I-65-3(113)	380

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



RAMP B ROBERTSON/SUMNER CO.

BEGIN STA. 152+50.00
END STA. 153+00.00

9/22/2014 10:20:18 PM
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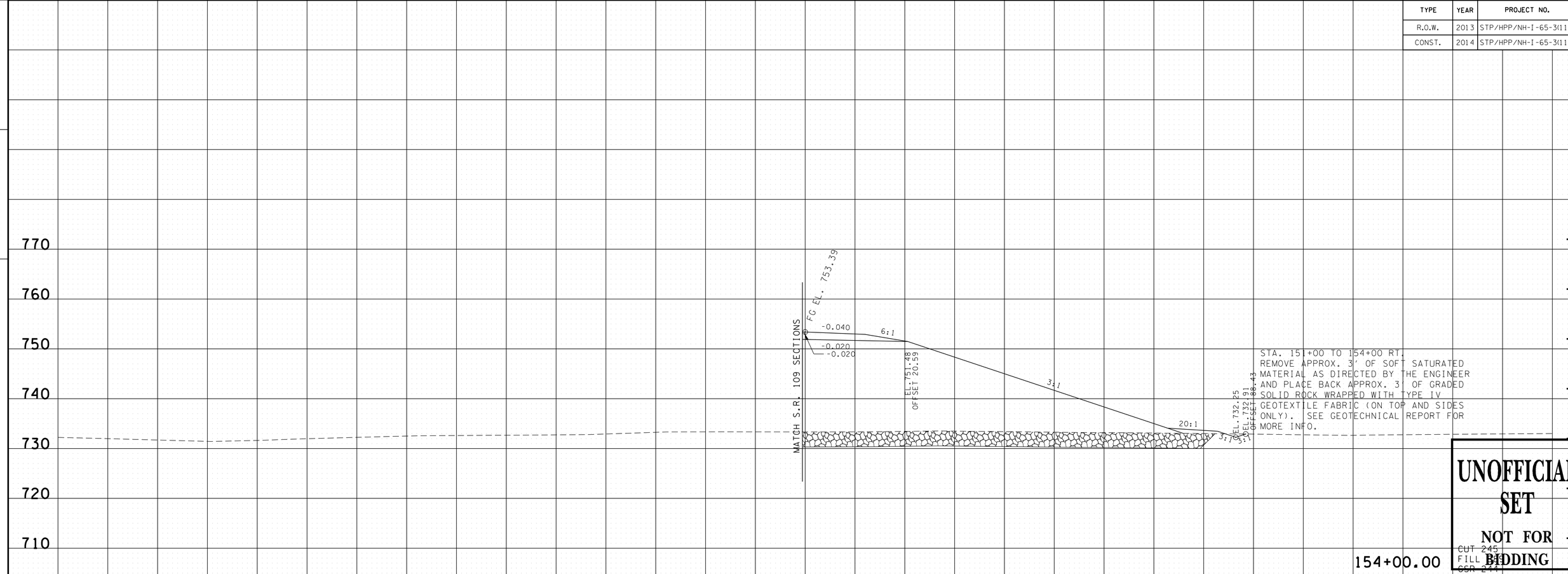
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	327
CONST.	2014	STP/HPP/NH-I-65-3(113)	381

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP B ROBERTSON/SUMNER CO.

BEGIN STA. 153+50.00
END STA. 154+00.00

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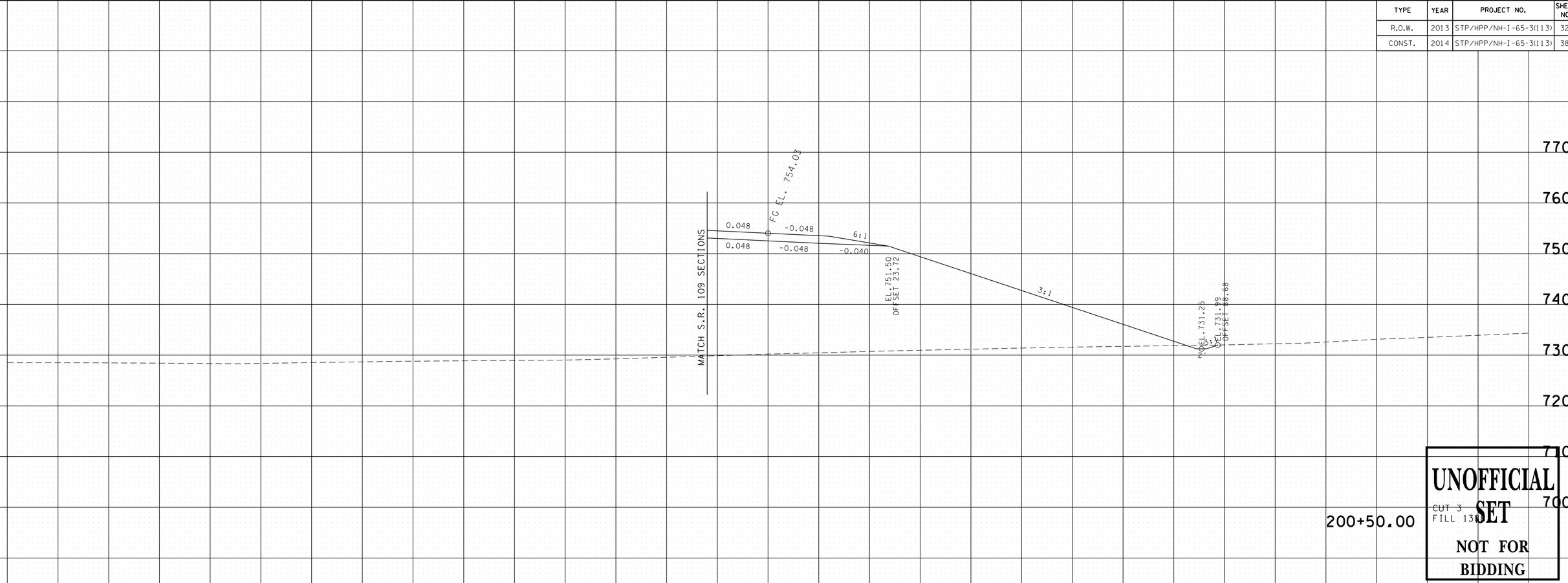
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	328
CONST.	2014	STP/HPP/NH-I-65-3(113)	382

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 200+00.00
END STA. 200+50.00

9/22/2014 10:20:21 PM
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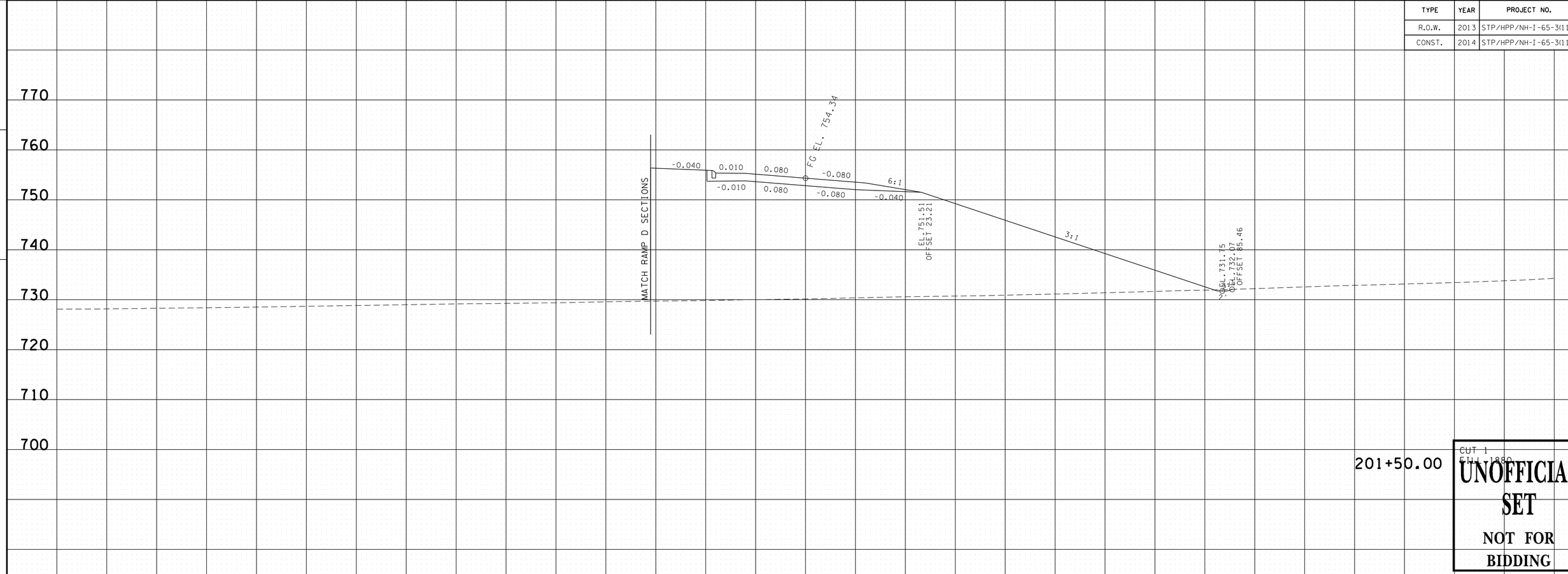
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	329
CONST.	2014	STP/HPP/NH-I-65-3(113)	383

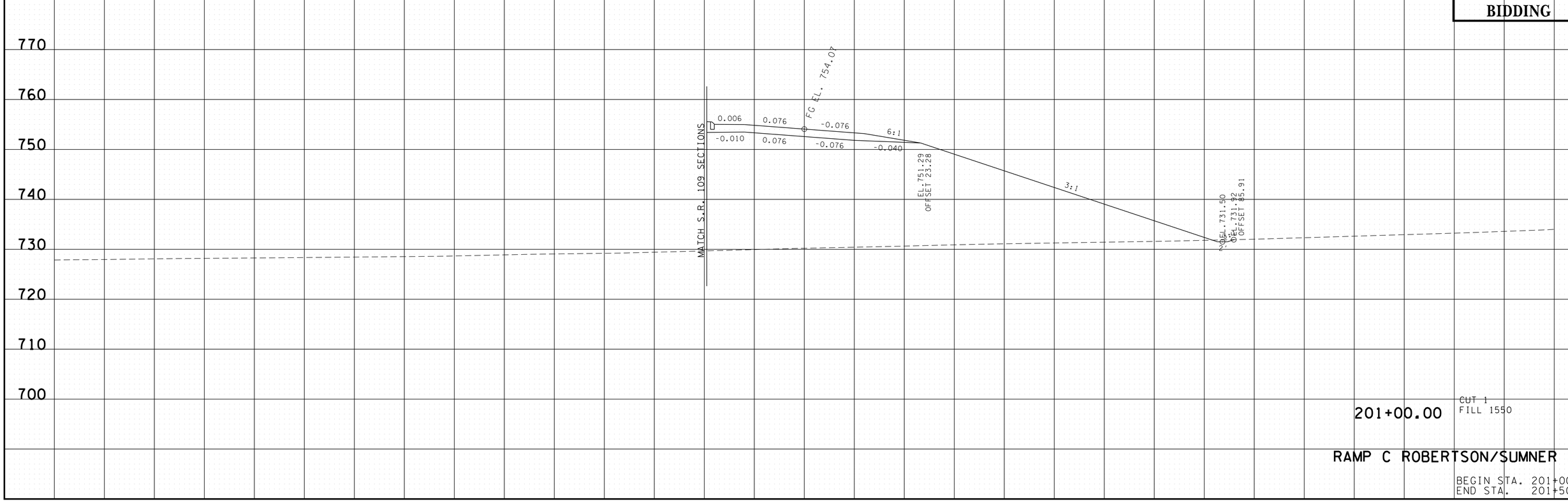
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



201+50.00

CUT 1
FILL 1880

UNOFFICIAL SET
NOT FOR BIDDING



201+00.00

CUT 1
FILL 1550

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 201+00.00
END STA. 201+50.00

9/22/2014 10:20:22 PM
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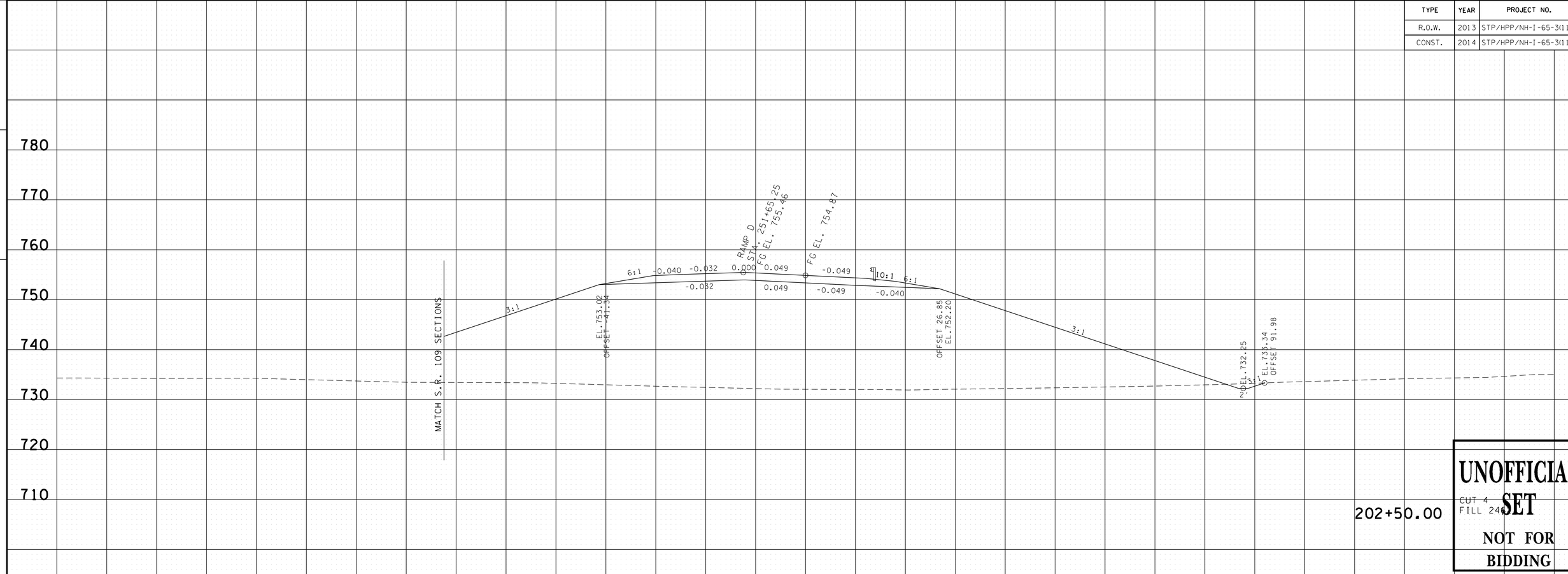
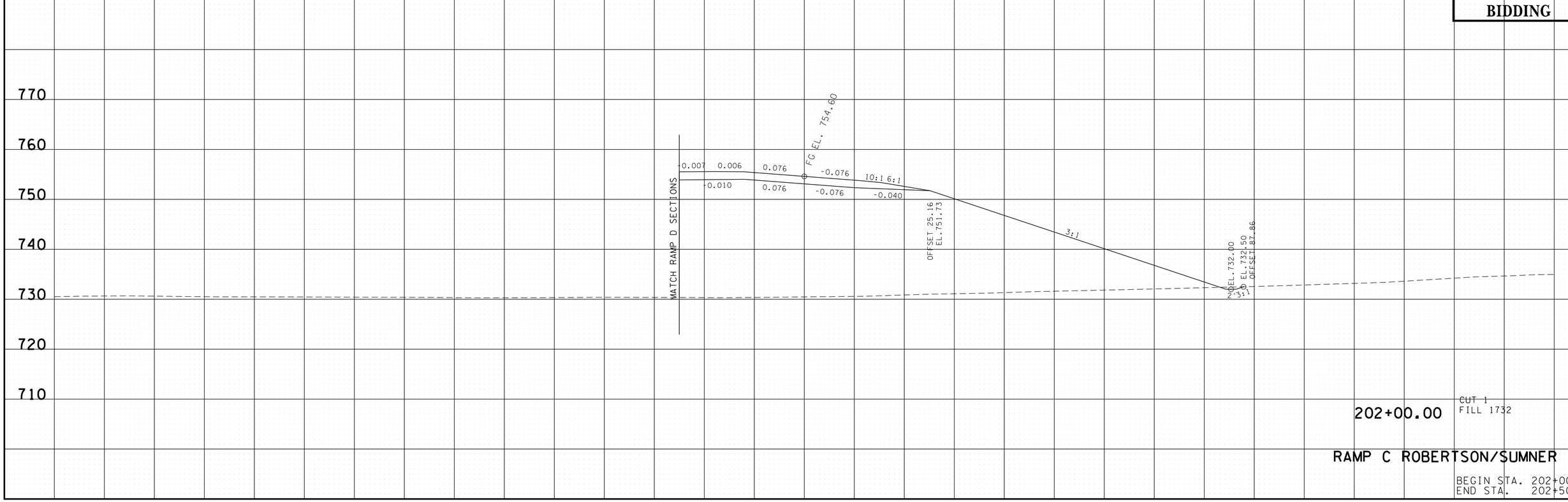
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	330
CONST.	2014	STP/HPP/NH-I-65-3(113)	384

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 202+00.00
END STA. 202+50.00

9/22/2014 10:20:23 PM
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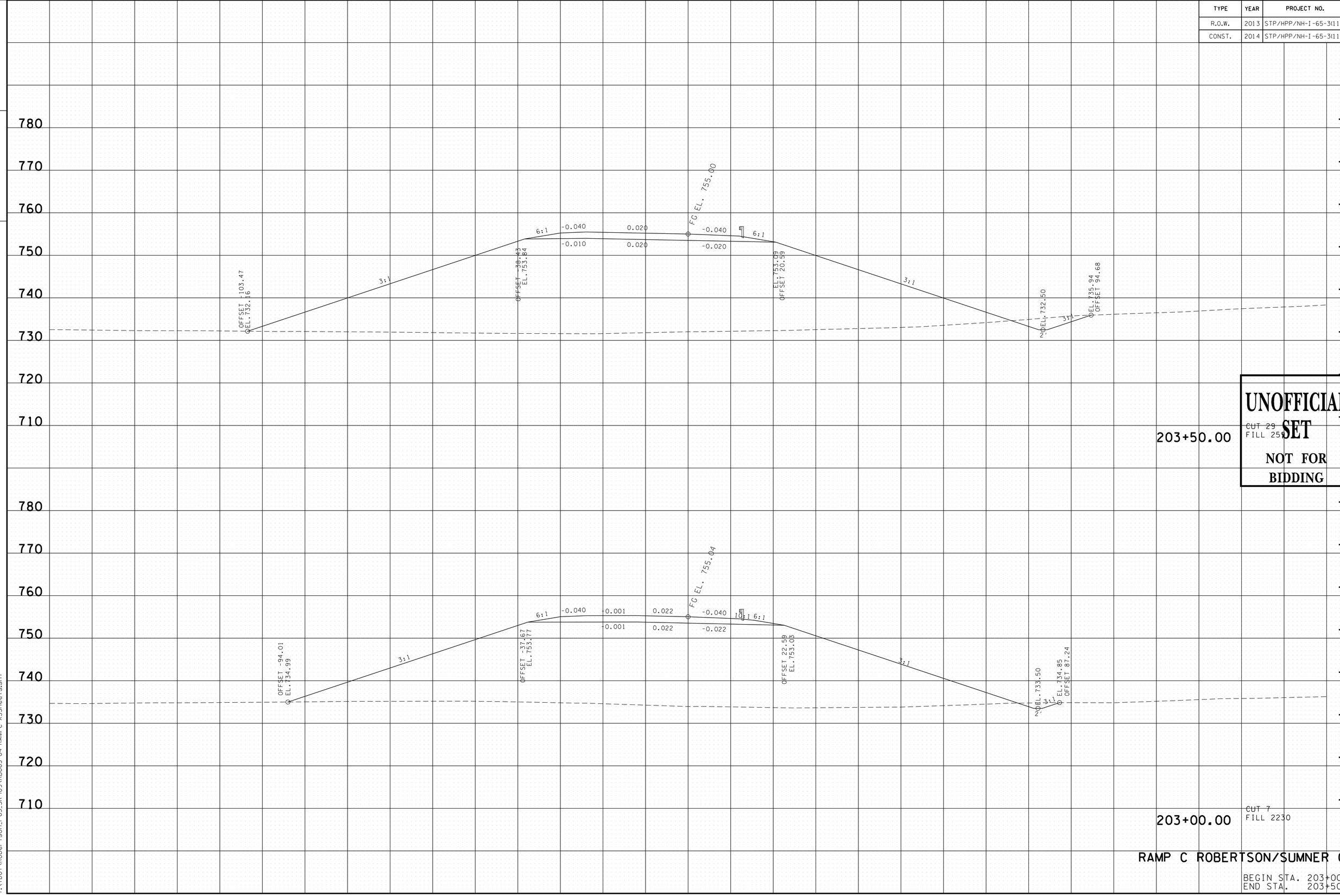
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	331
CONST.	2014	STP/HPP/NH-I-65-3(113)	385

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 203+00.00
END STA. 203+50.00

9/22/2014 10:20:24 PM
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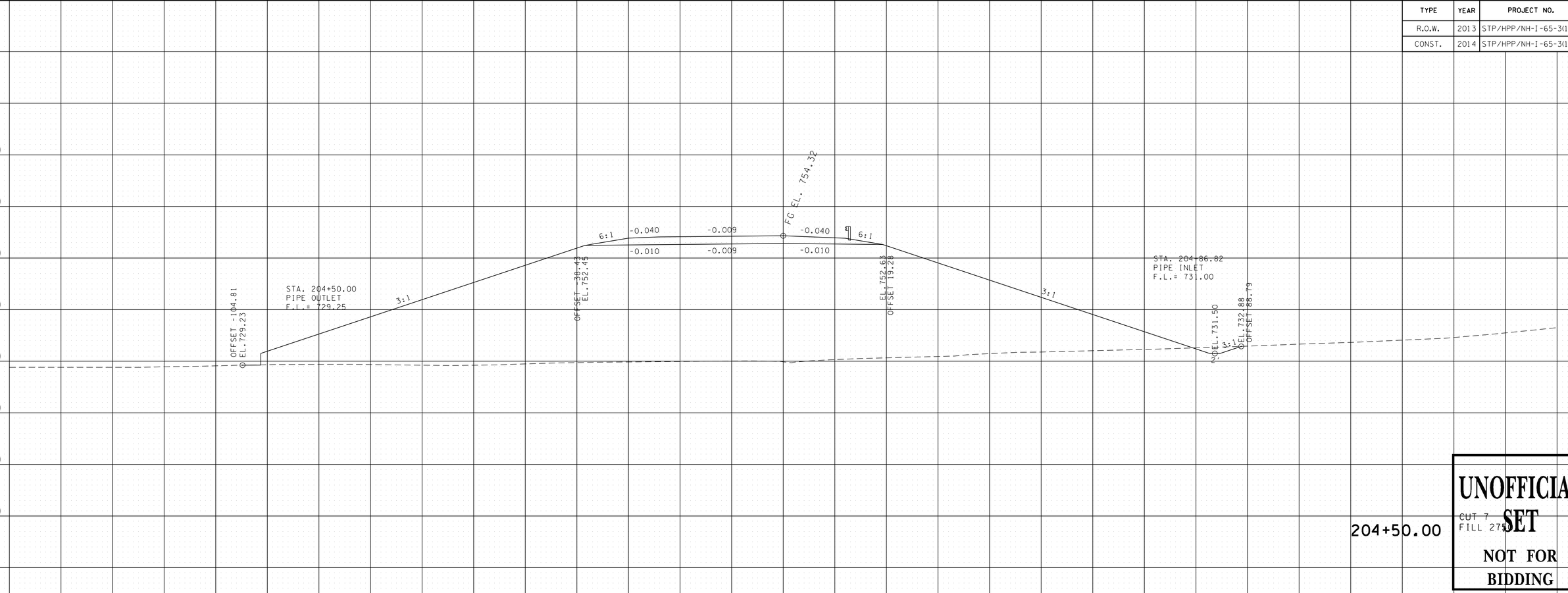
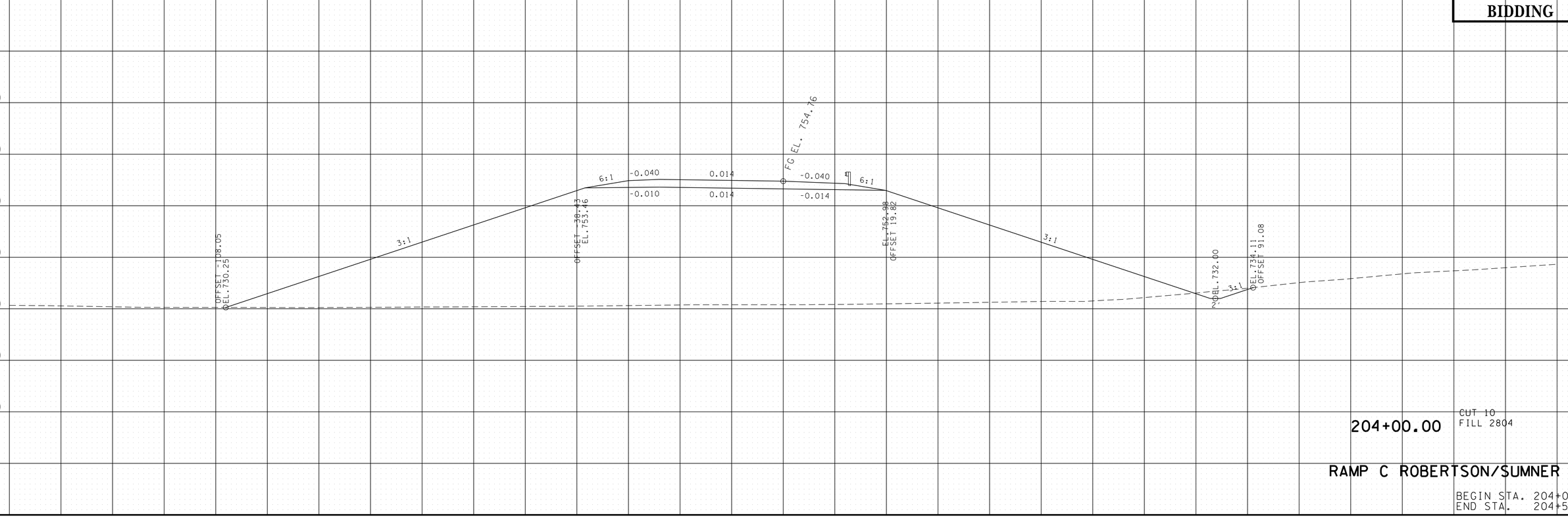
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	332
CONST.	2014	STP/HPP/NH-I-65-3(113)	386

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 204+00.00
END STA. 204+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:20:31 PM
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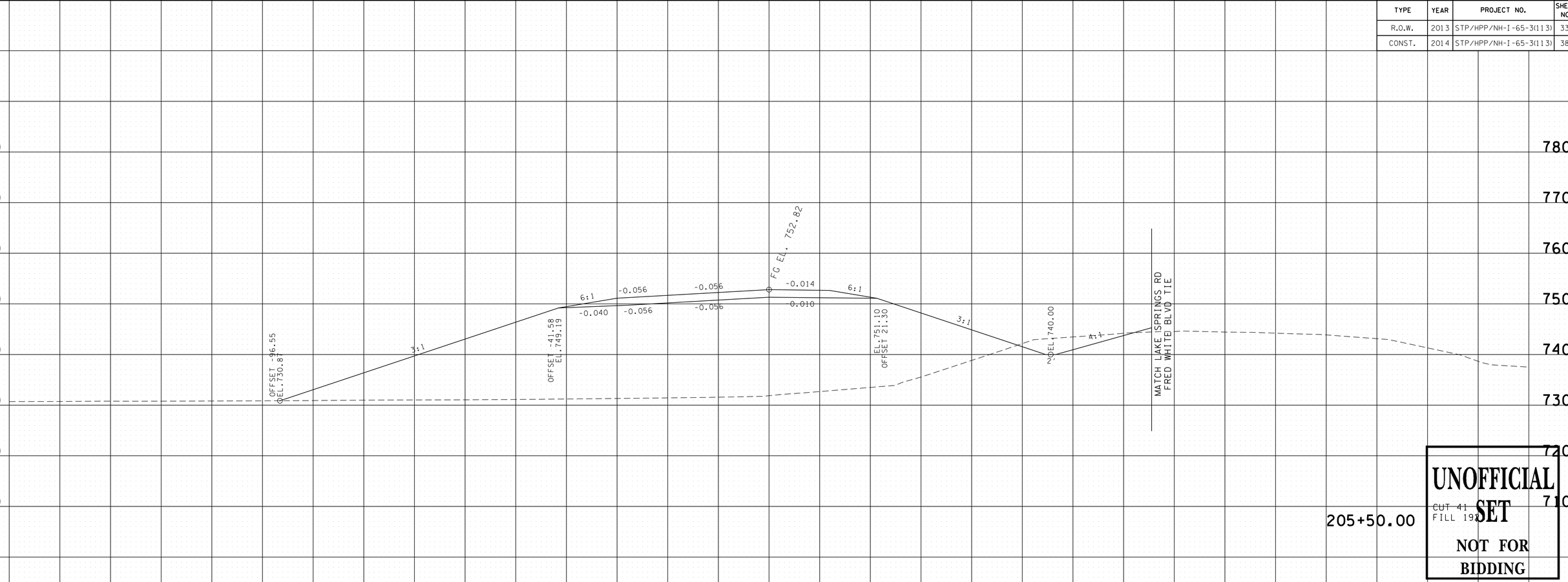
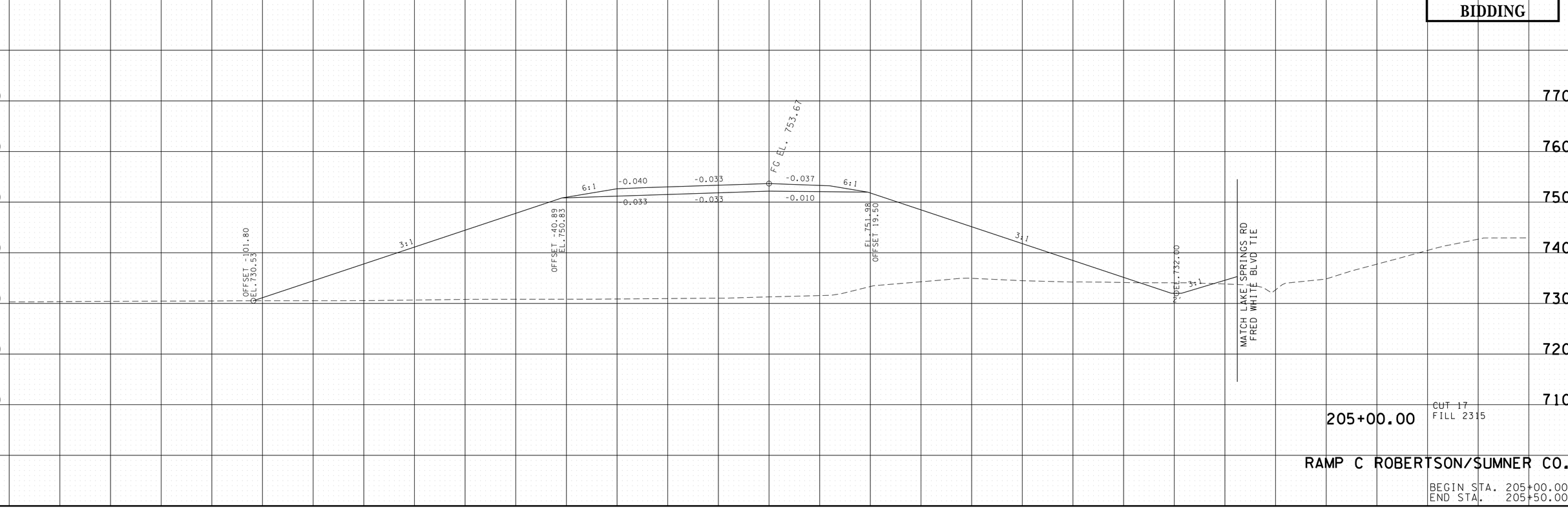
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	333
CONST.	2014	STP/HPP/NH-I-65-3(113)	387

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 205+00.00
END STA. 205+50.00

9/22/2014 10:20:32 PM
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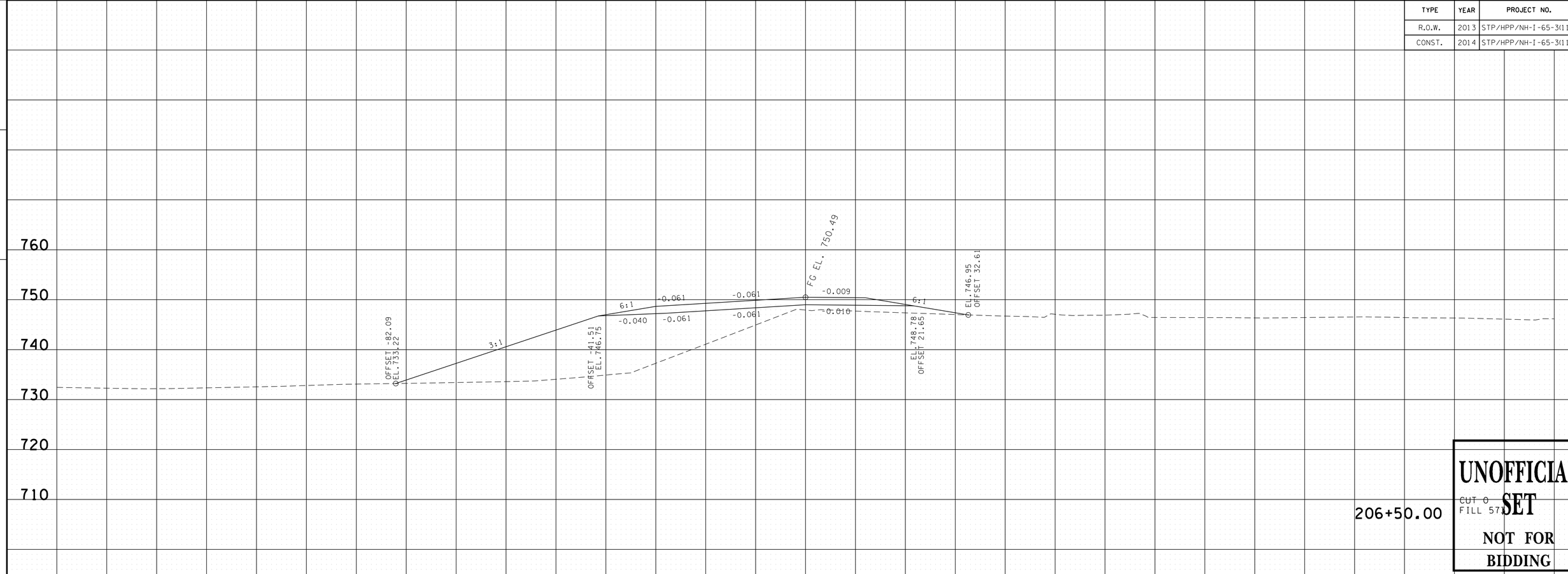
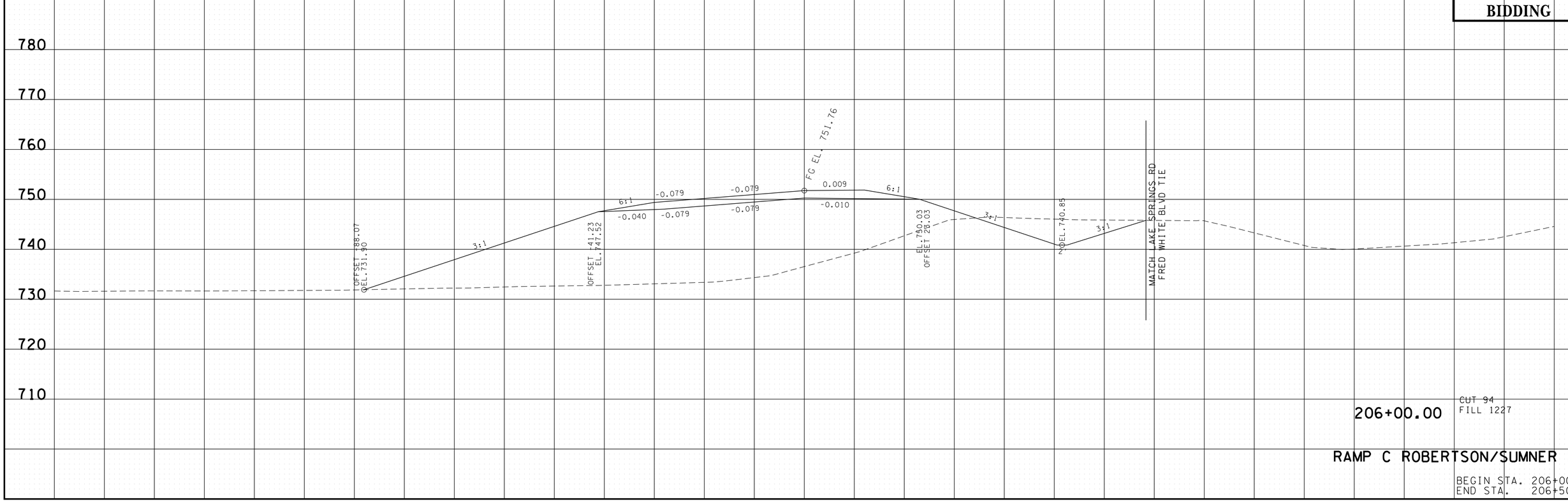
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	334
CONST.	2014	STP/HPP/NH-I-65-3(113)	388

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 206+00.00
END STA. 206+50.00

9/22/2014 10:20:33 PM
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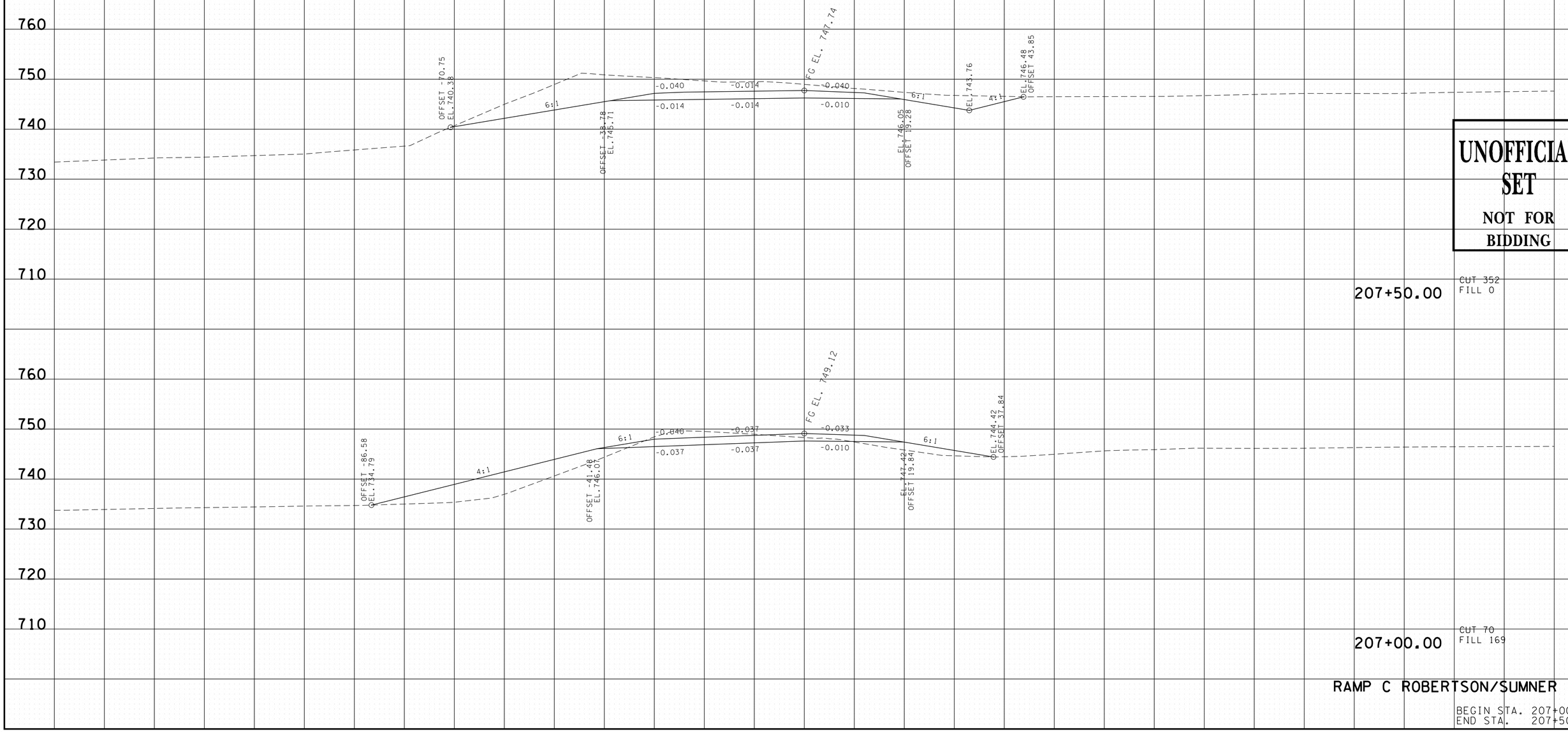
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	335
CONST.	2014	STP/HPP/NH-I-65-3(113)	389

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

207+50.00
CUT 352
FILL 0

207+00.00
CUT 70
FILL 169

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 207+00.00
END STA. 207+50.00

9/22/2014 10:20:34 PM
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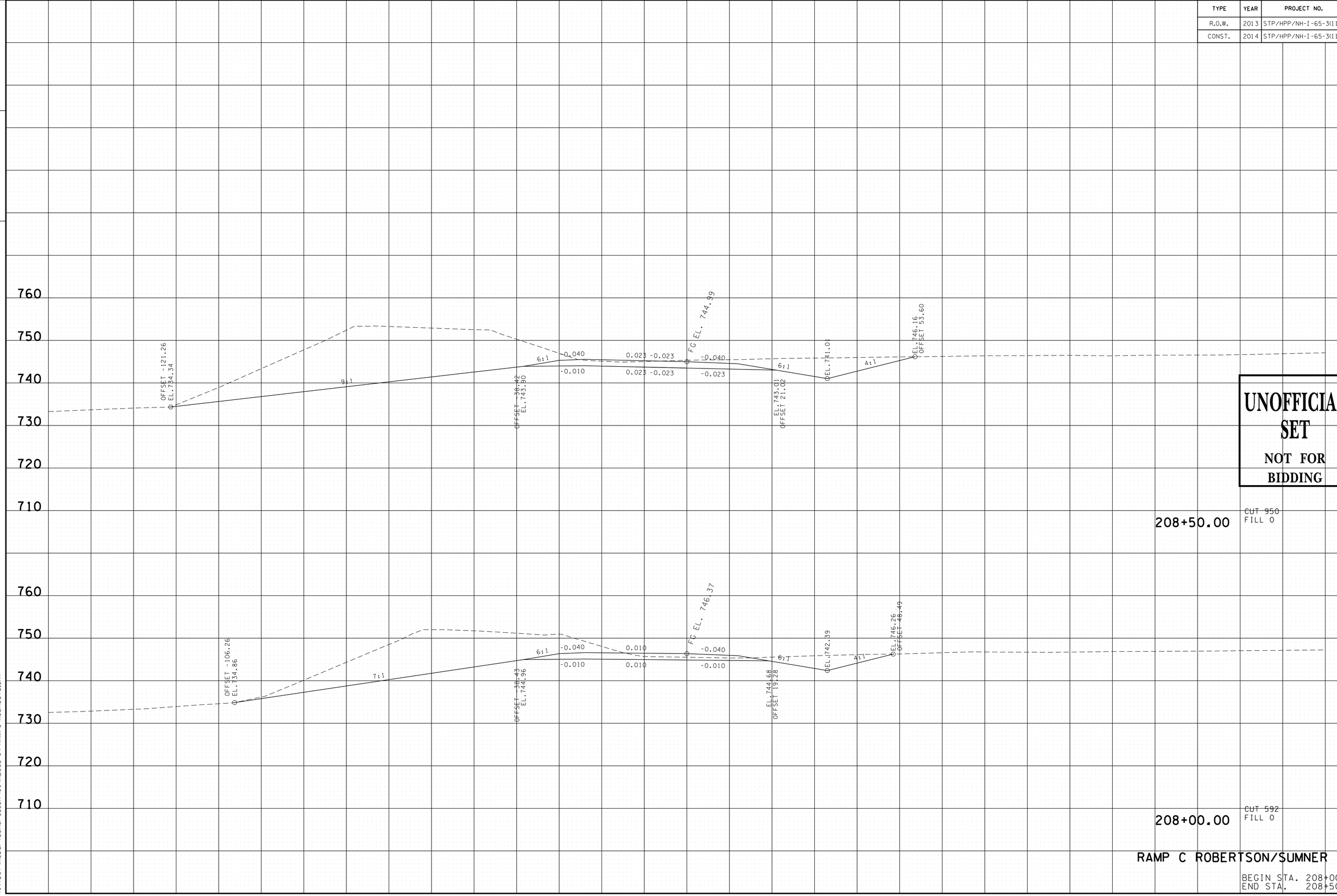
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	336
CONST.	2014	STP/HPP/NH-I-65-3(113)	390

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 208+00.00
END STA. 208+50.00

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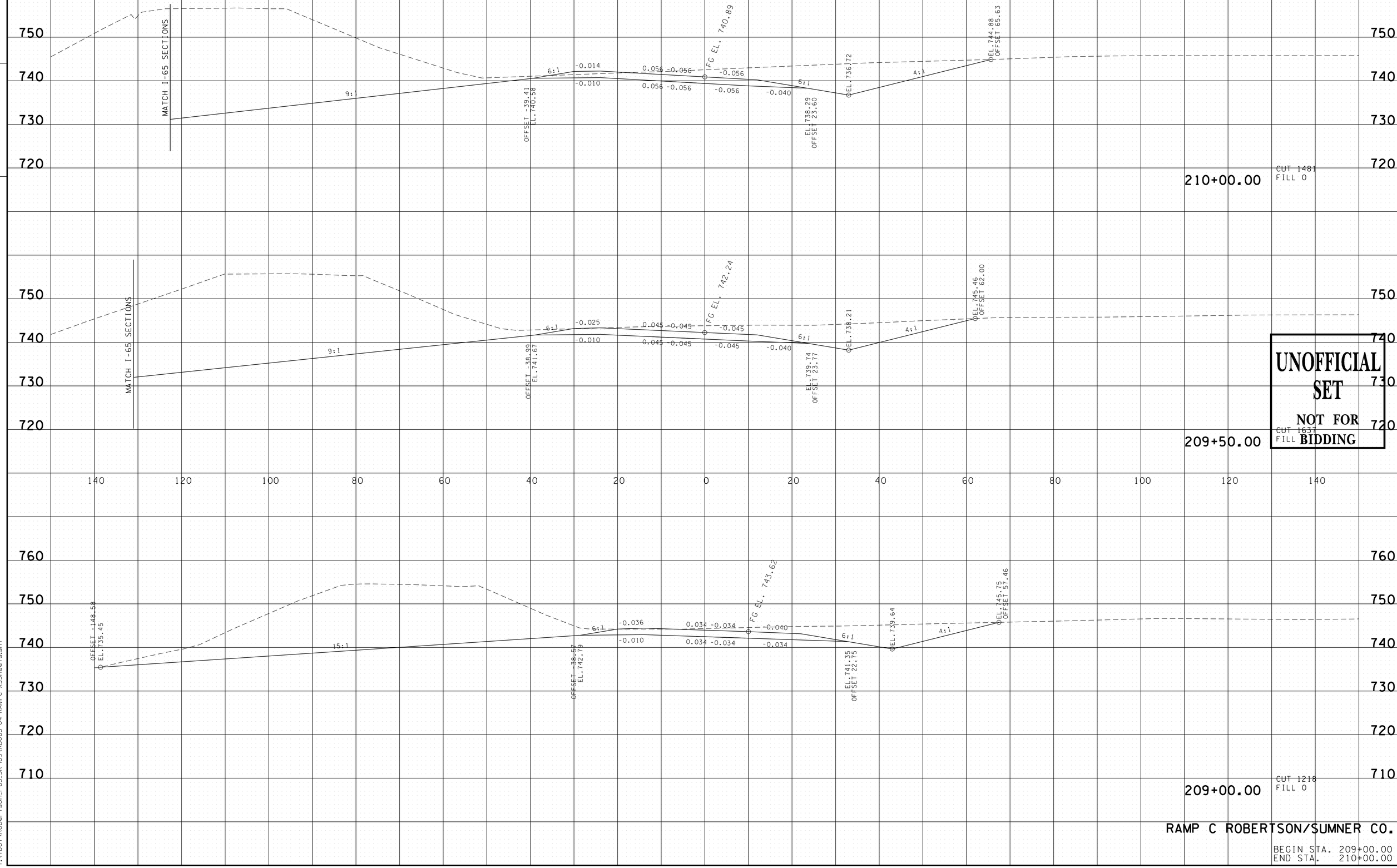
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	337
CONST.	2014	STP/HPP/NH-I-65-3(113)	391

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 209+00.00
END STA. 210+00.00

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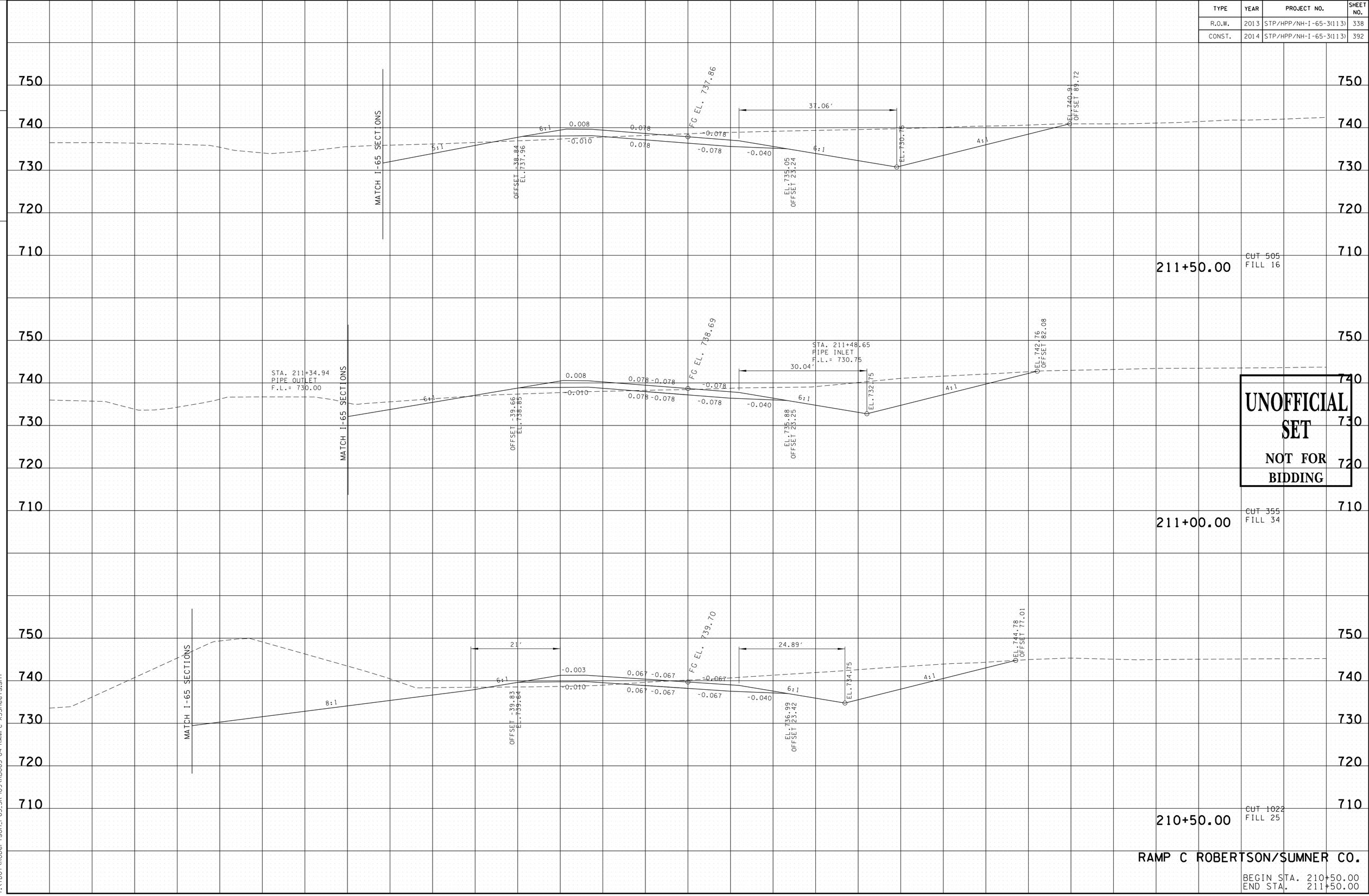
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	338
CONST.	2014	STP/HPP/NH-I-65-3(113)	392

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 210+50.00
END STA. 211+50.00

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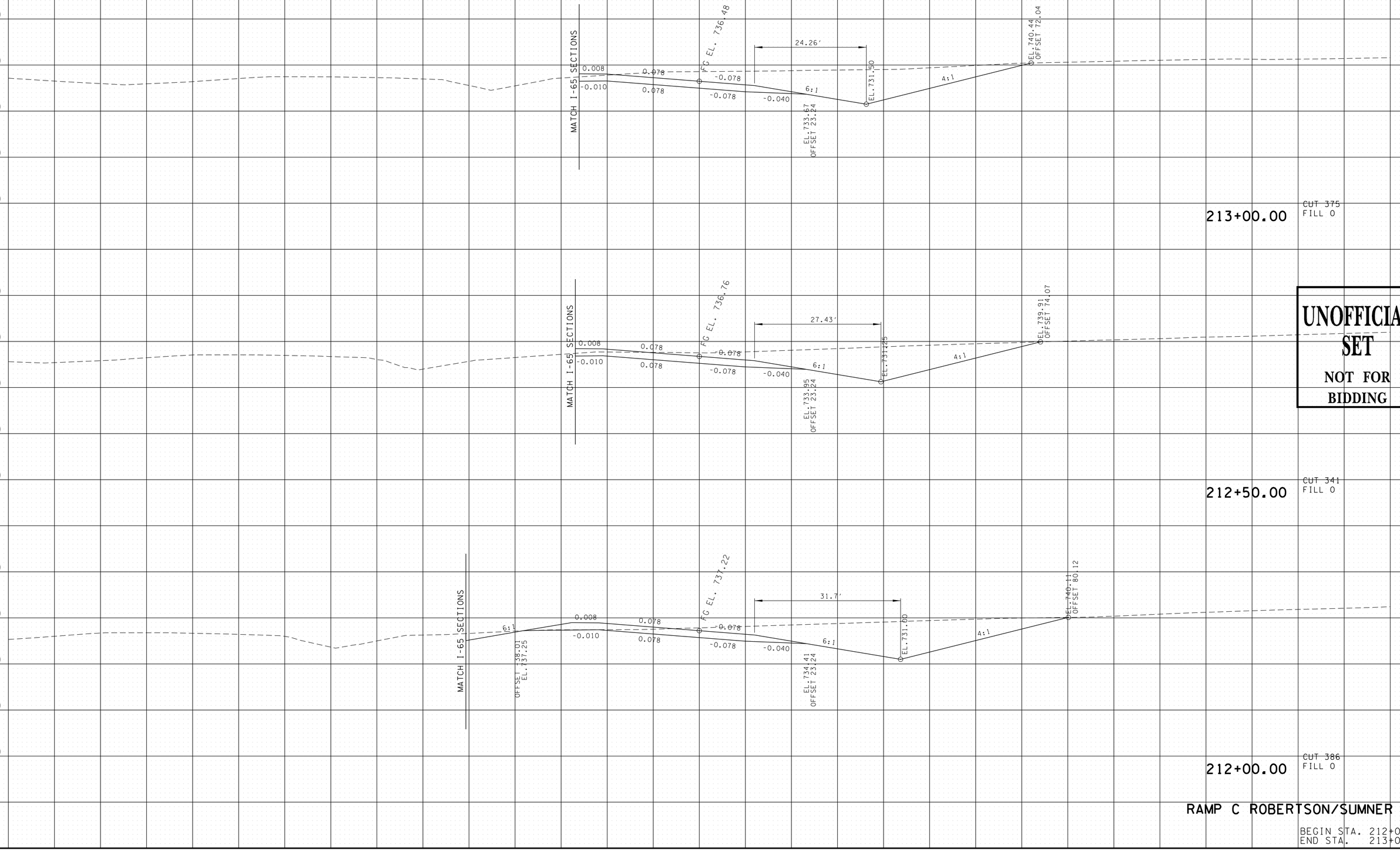
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	339
CONST.	2014	STP/HPP/NH-I-65-3(113)	393

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 212+00.00
END STA. 213+00.00

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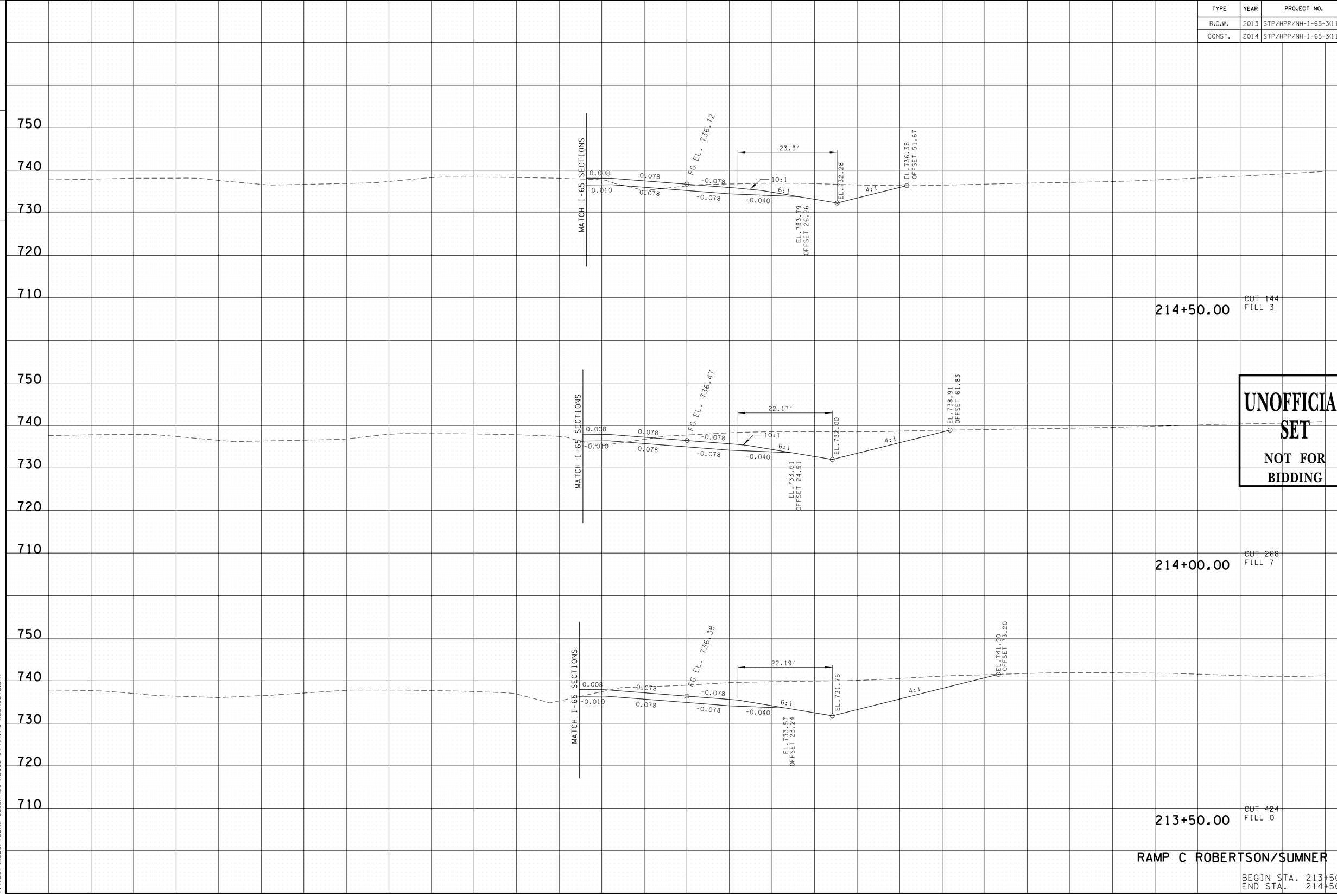
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	340
CONST.	2014	STP/HPP/NH-I-65-3(113)	394

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 213+50.00
END STA. 214+50.00

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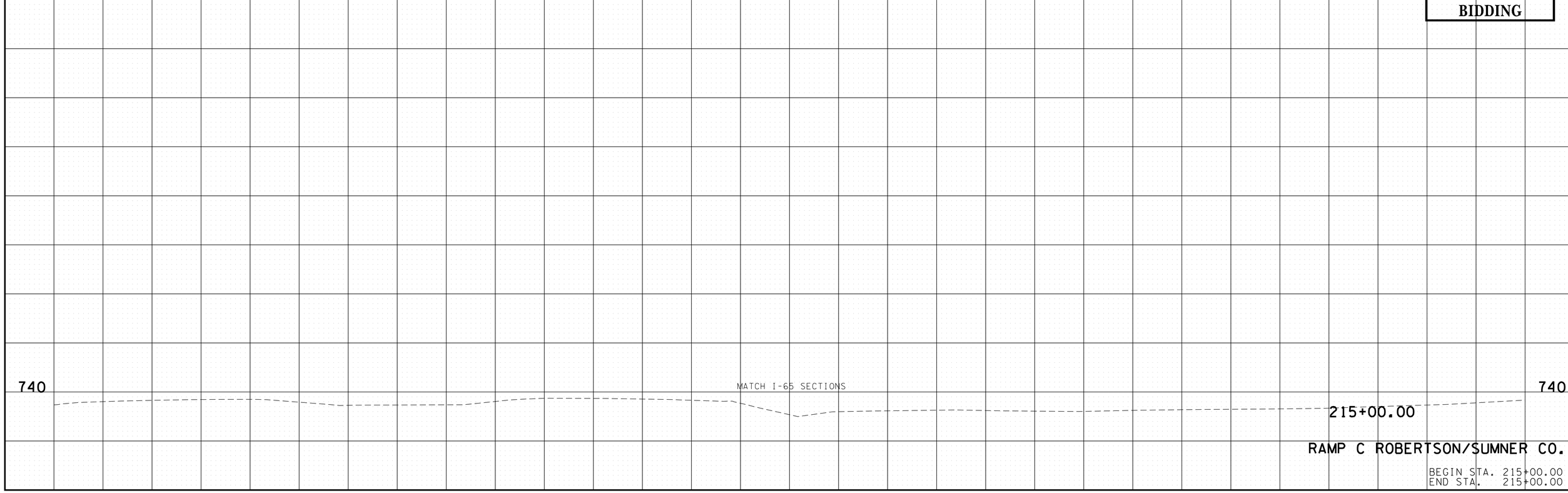
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	341
CONST.	2014	STP/HPP/NH-I-65-3(113)	395

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

UNOFFICIAL SET

NOT FOR BIDDING



RAMP C ROBERTSON/SUMNER CO.

BEGIN STA. 215+00.00
END STA. 215+00.00

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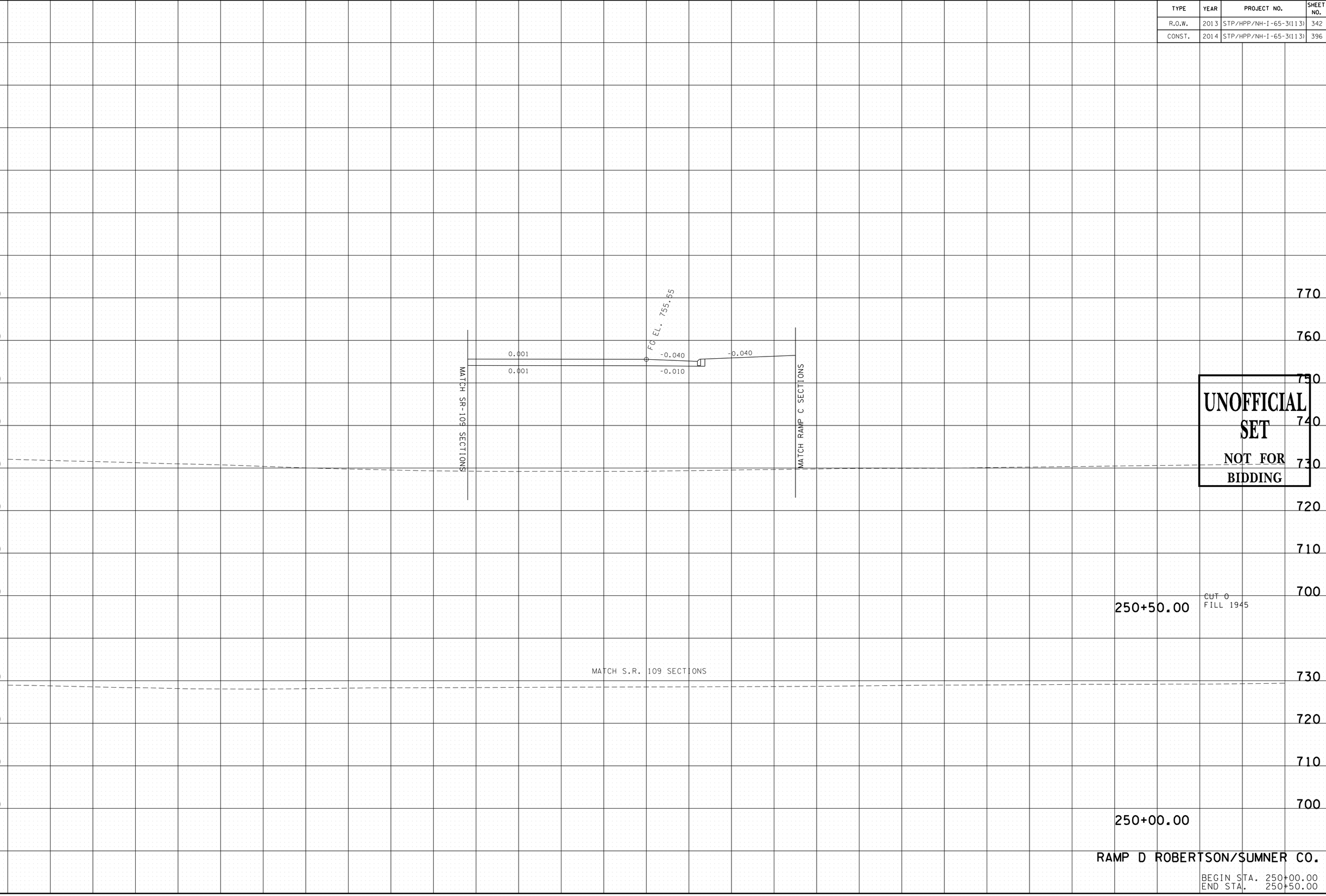
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	342
CONST.	2014	STP/HPP/NH-I-65-3(113)	396

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP D ROBERTSON/SUMNER CO.

BEGIN STA. 250+00.00
END STA. 250+50.00

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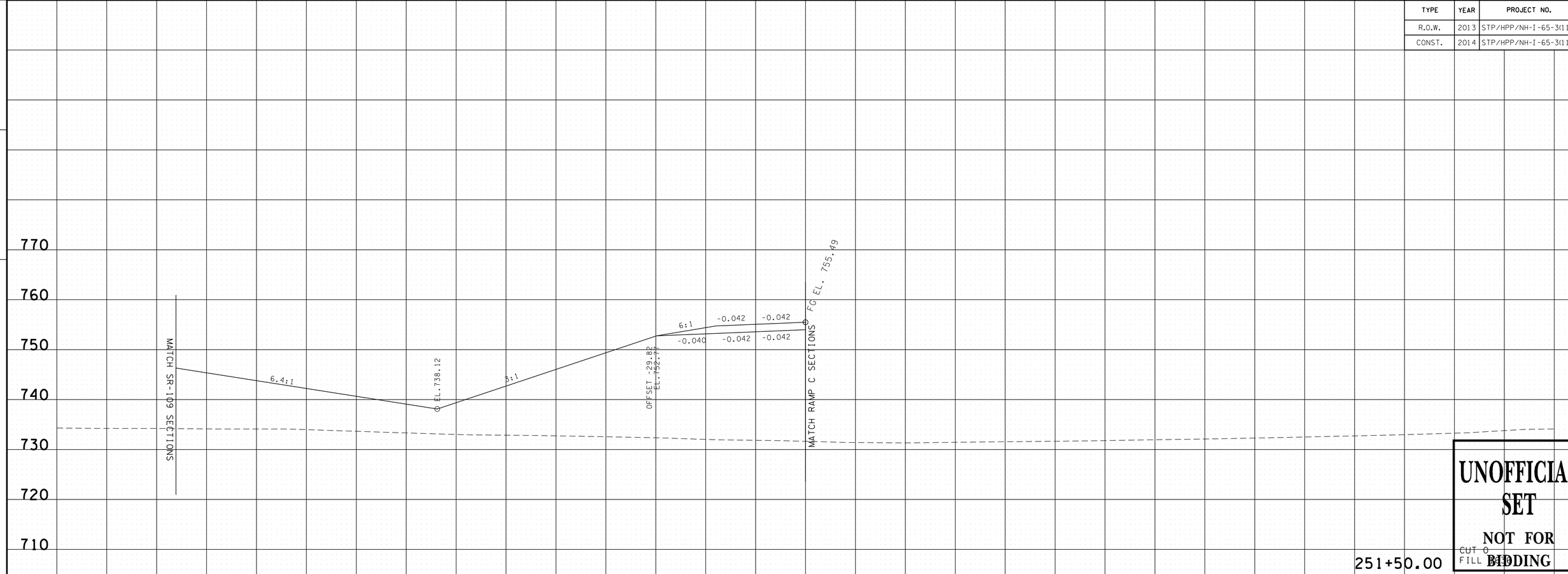
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	343
CONST.	2014	STP/HPP/NH-I-65-3(113)	397

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP D ROBERTSON/SUMNER CO.

BEGIN STA. 251+00.00
END STA. 251+50.00

9/22/2014 10:20:41 PM
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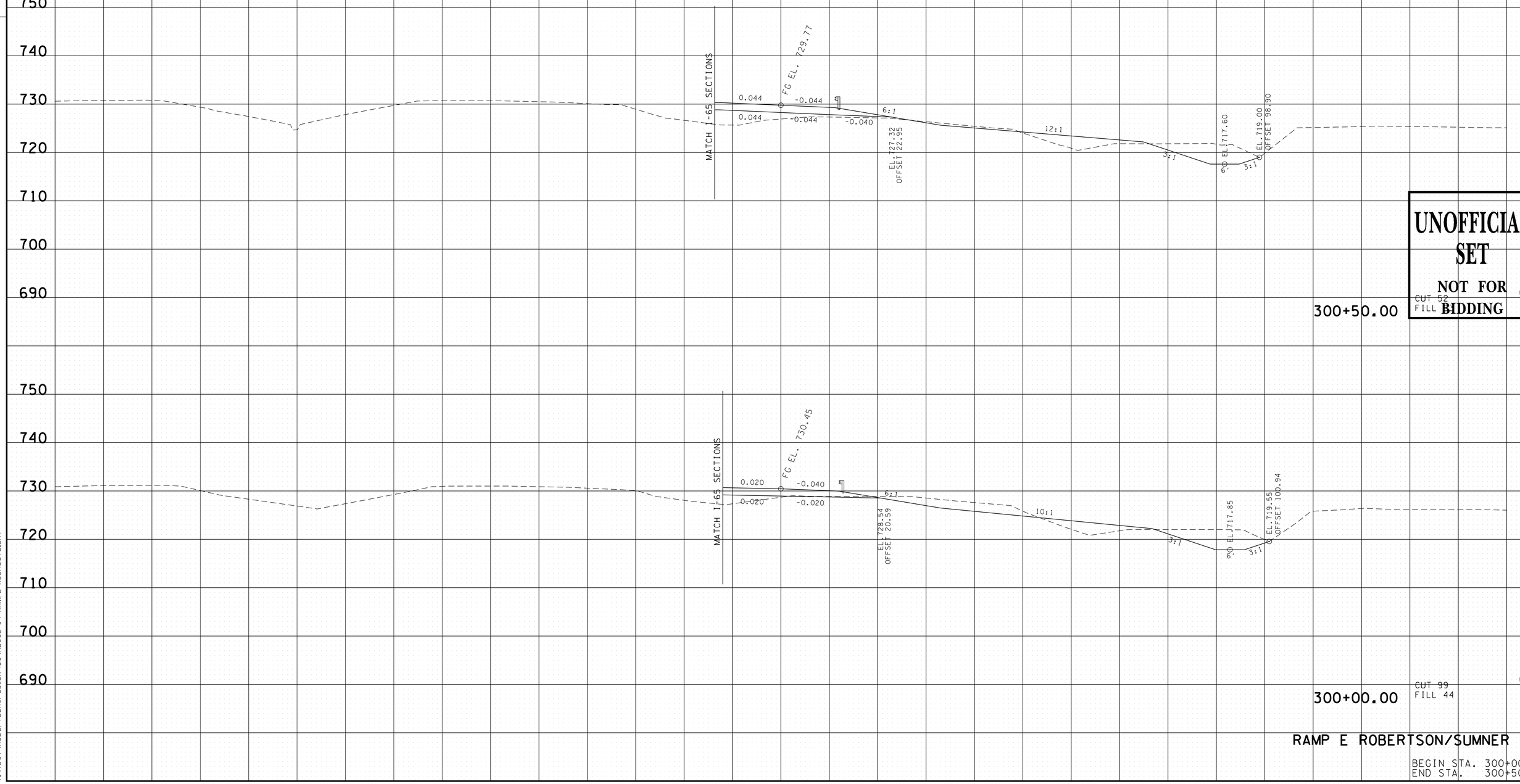
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	344
CONST.	2014	STP/HPP/NH-I-65-3(113)	398

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

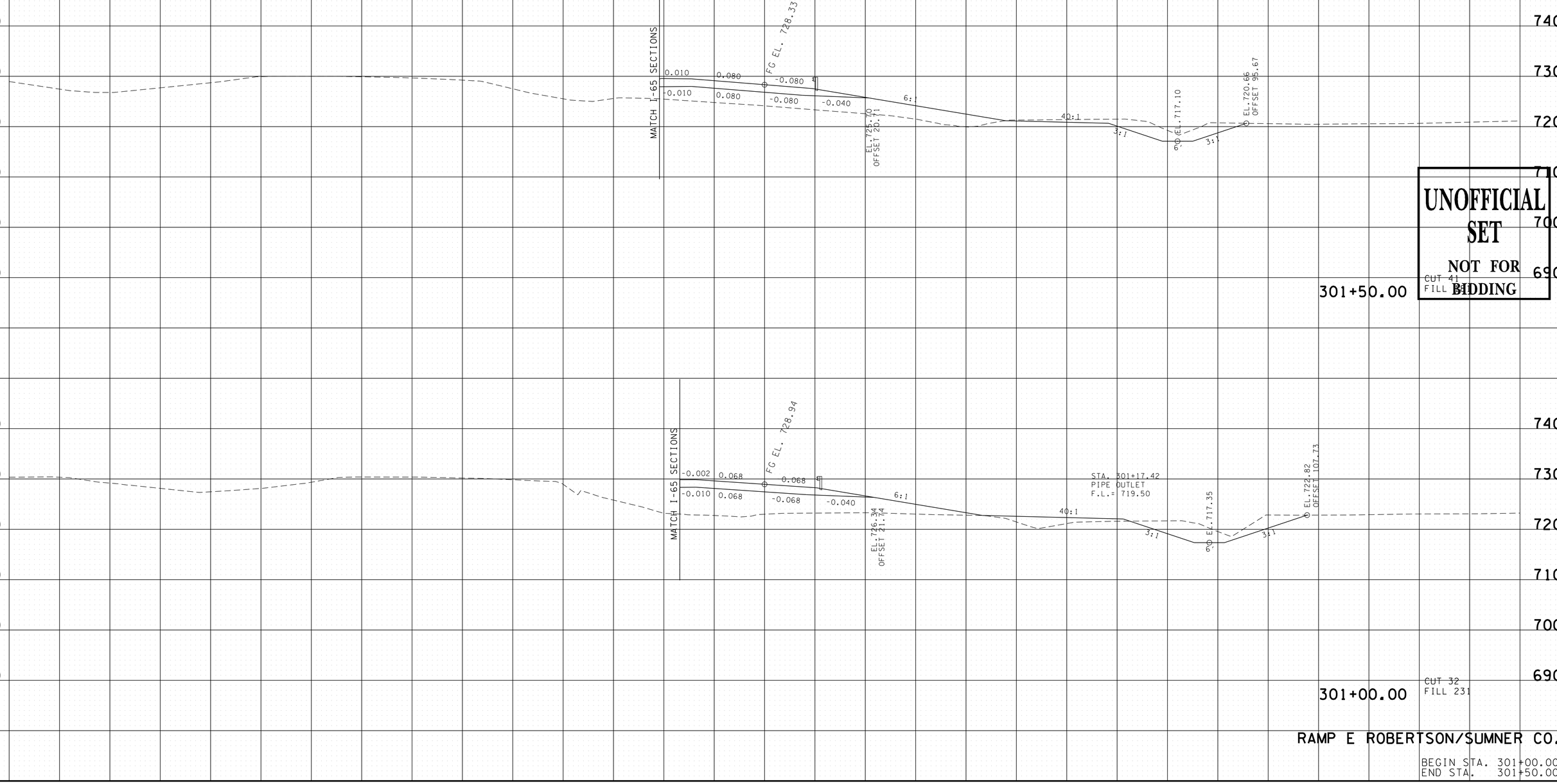
BEGIN STA. 300+00.00
END STA. 300+50.00

9/22/2014 10:20:44 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	345
CONST.	2014	STP/HPP/NH-I-65-3(113)	399

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

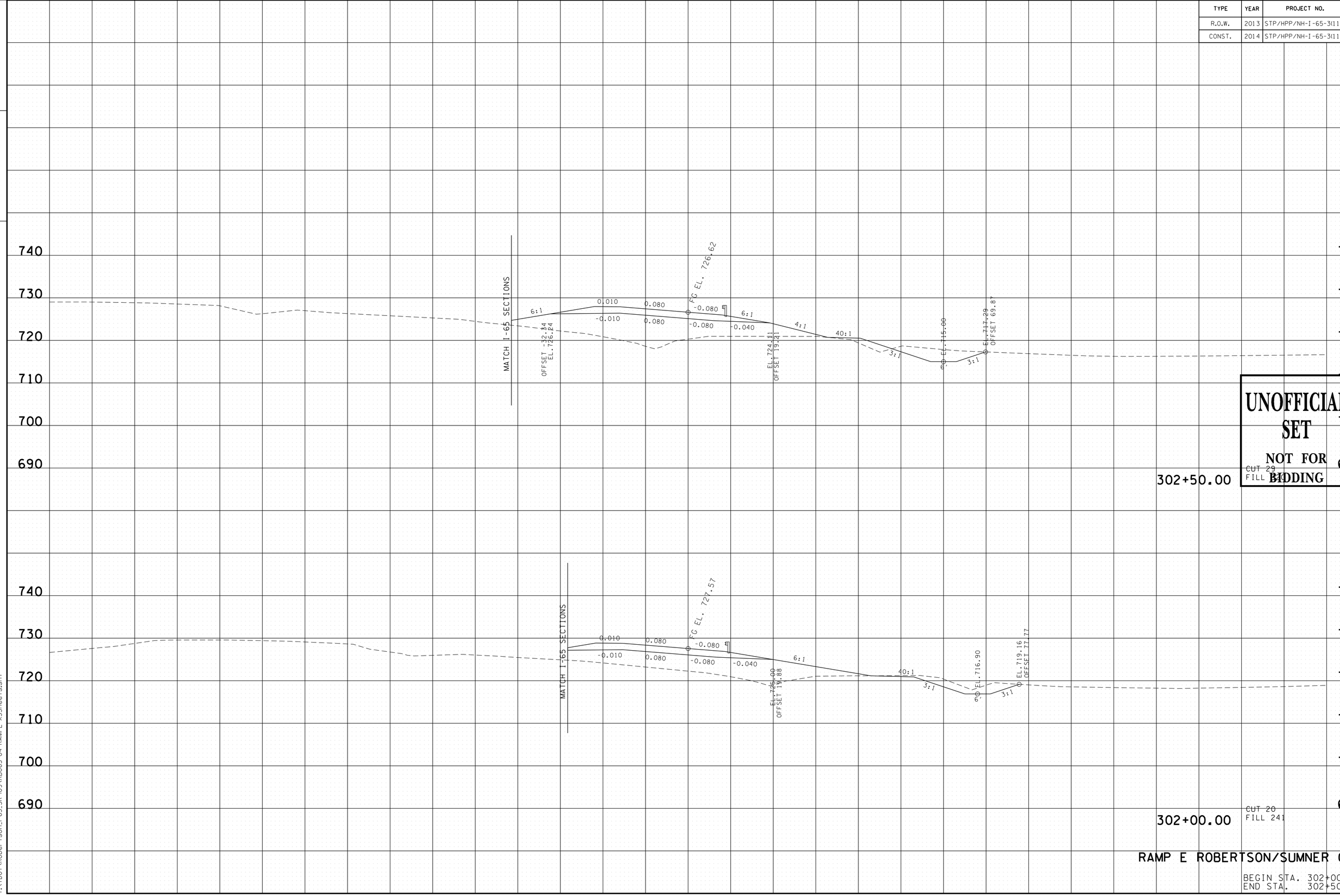
BEGIN STA. 301+00.00
END STA. 301+50.00

9/22/2014 10:20:45 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	346
CONST.	2014	STP/HPP/NH-I-65-3(113)	400

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

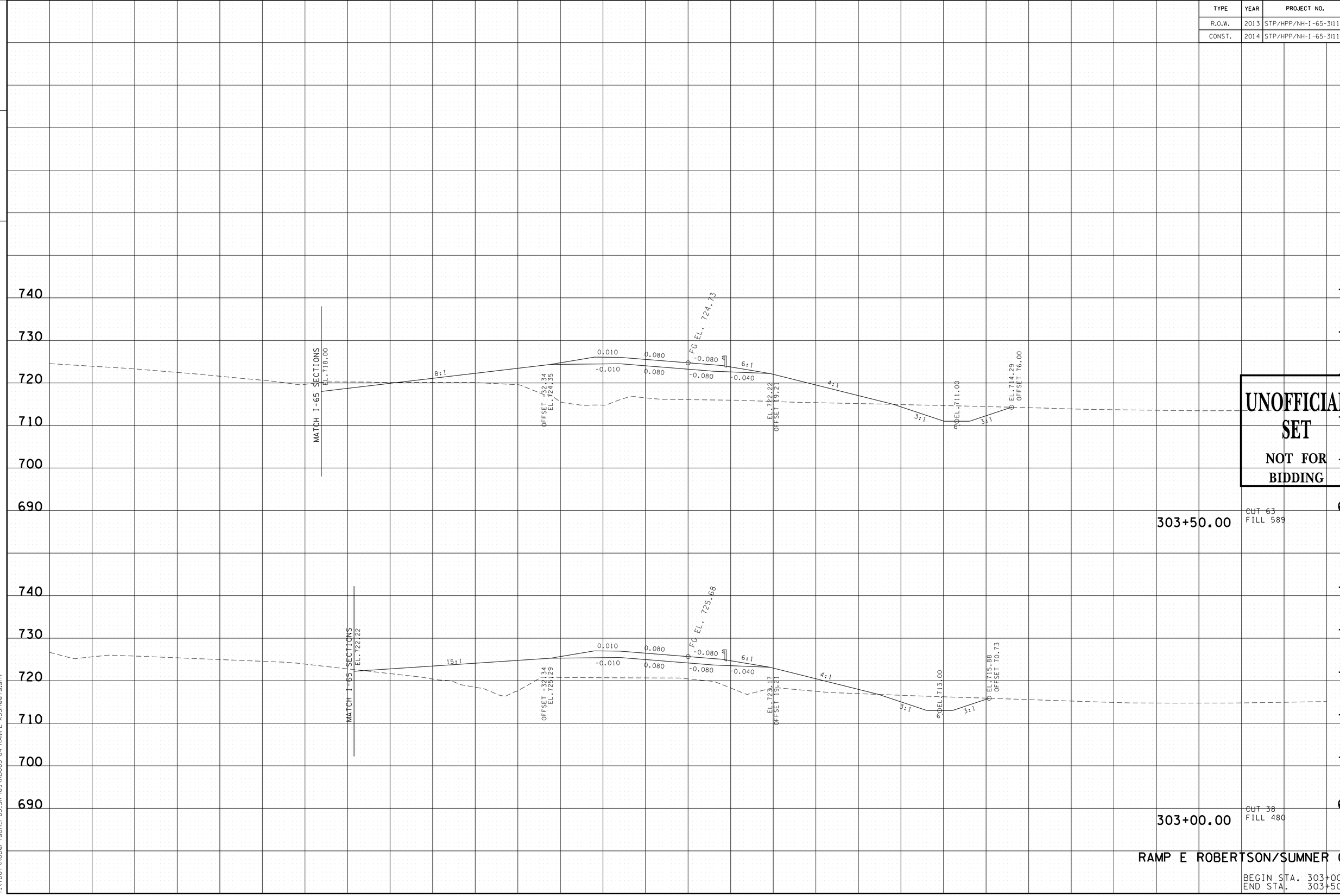
BEGIN STA. 302+00.00
END STA. 302+50.00

9/22/2014 10:20:46 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	347
CONST.	2014	STP/HPP/NH-I-65-3(113)	401

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

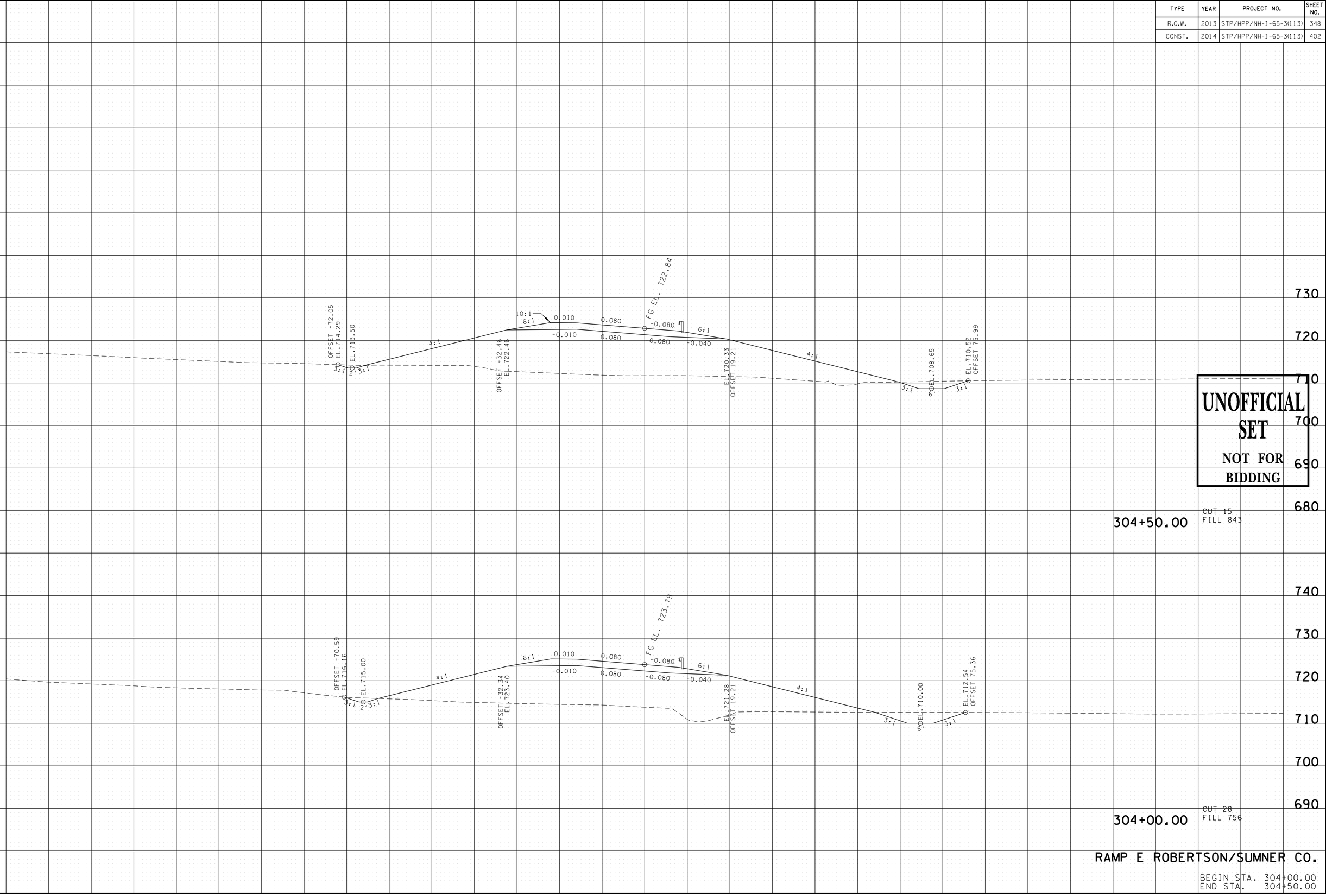
RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 303+00.00
END STA. 303+50.00

9/22/2014 10:20:48 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	348
CONST.	2014	STP/HPP/NH-I-65-3(113)	402

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

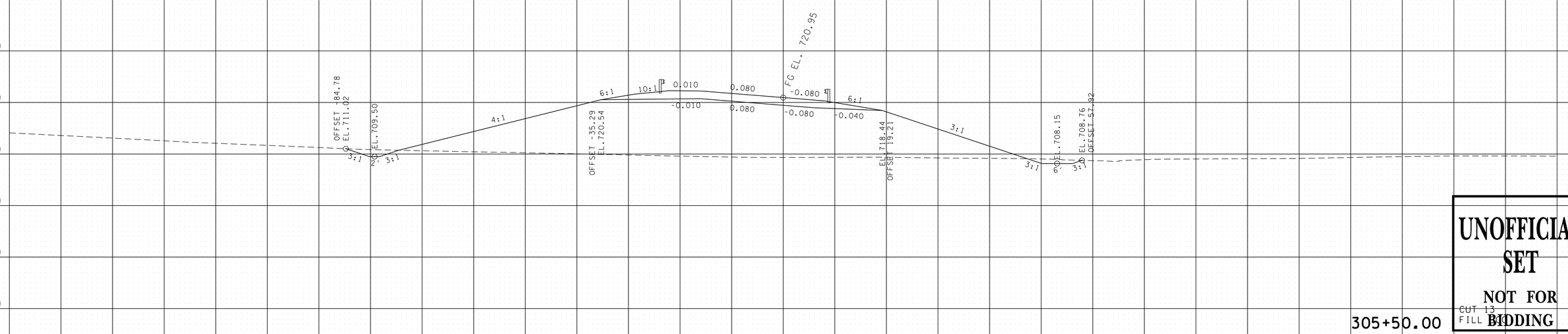
RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 304+00.00
END STA. 304+50.00

9/22/2014 10:20:50 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	349
CONST.	2014	STP/HPP/NH-I-65-3(113)	403

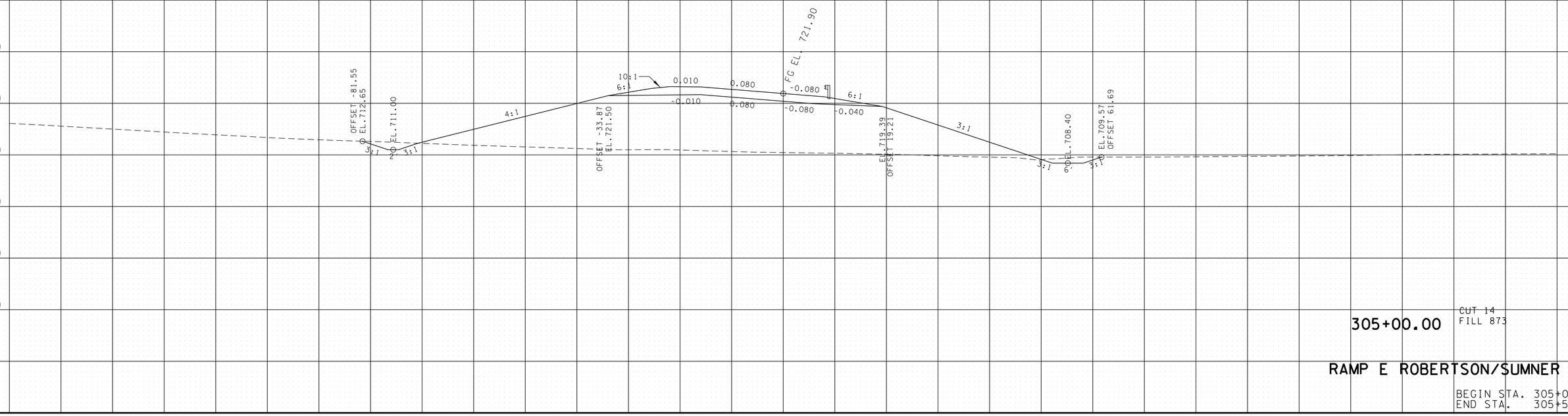
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



CUT 13
FILL 810

305+50.00

UNOFFICIAL SET
NOT FOR BIDDING



CUT 14
FILL 873

305+00.00

RAMP E ROBERTSON/SUMNER CO.

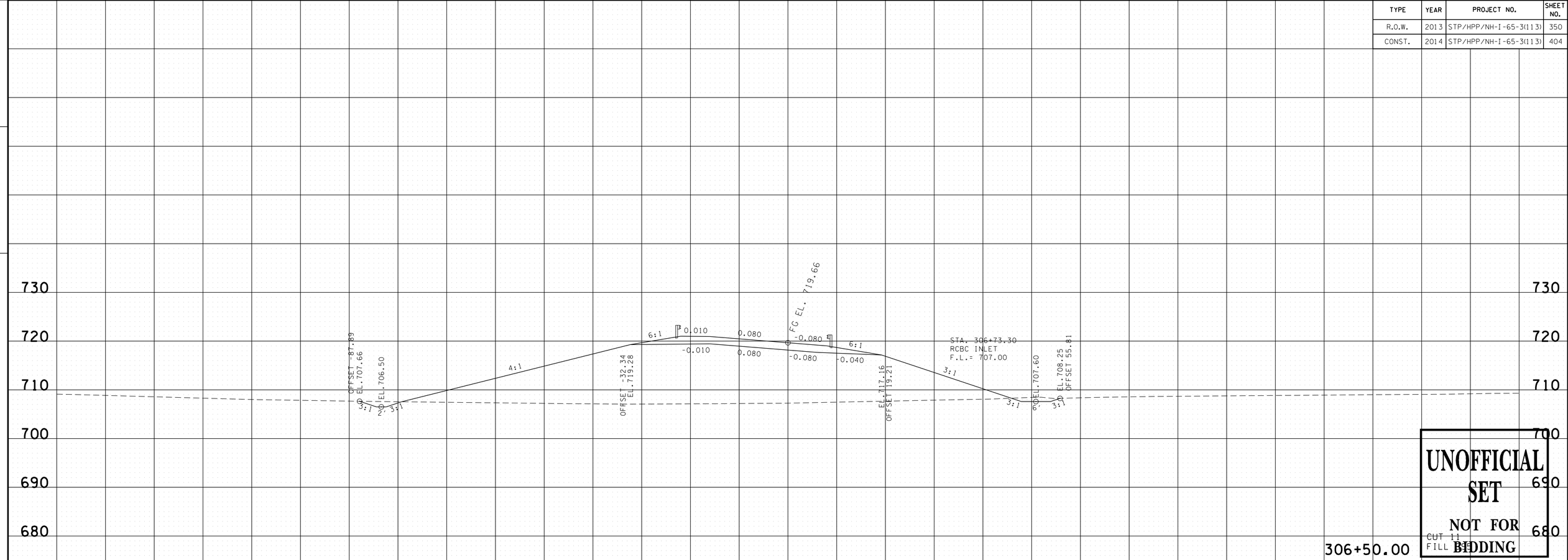
BEGIN STA. 305+00.00
END STA. 305+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:20:51 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	350
CONST.	2014	STP/HPP/NH-I-65-3(113)	404

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 306+00.00
END STA. 306+50.00

9/22/2014 10:20:52 PM
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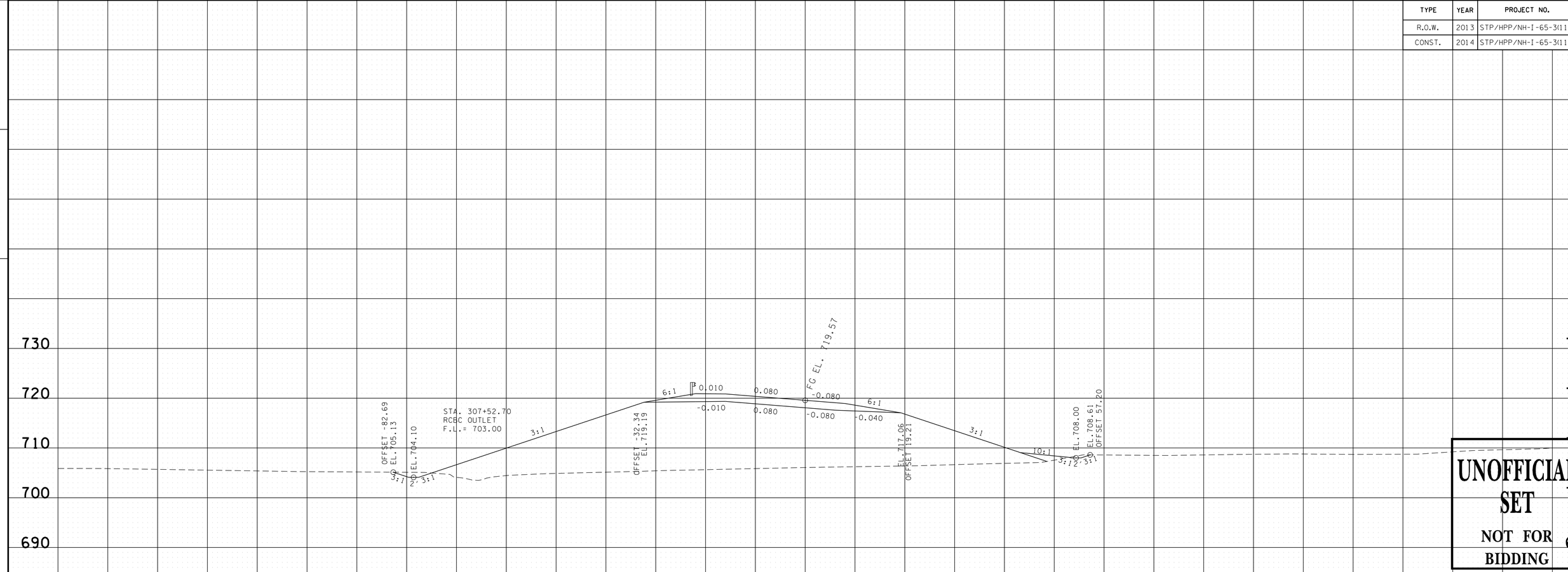
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	351
CONST.	2014	STP/HPP/NH-I-65-3(113)	405

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 307+00.00
END STA. 307+50.00

9/22/2014 10:20:53 PM
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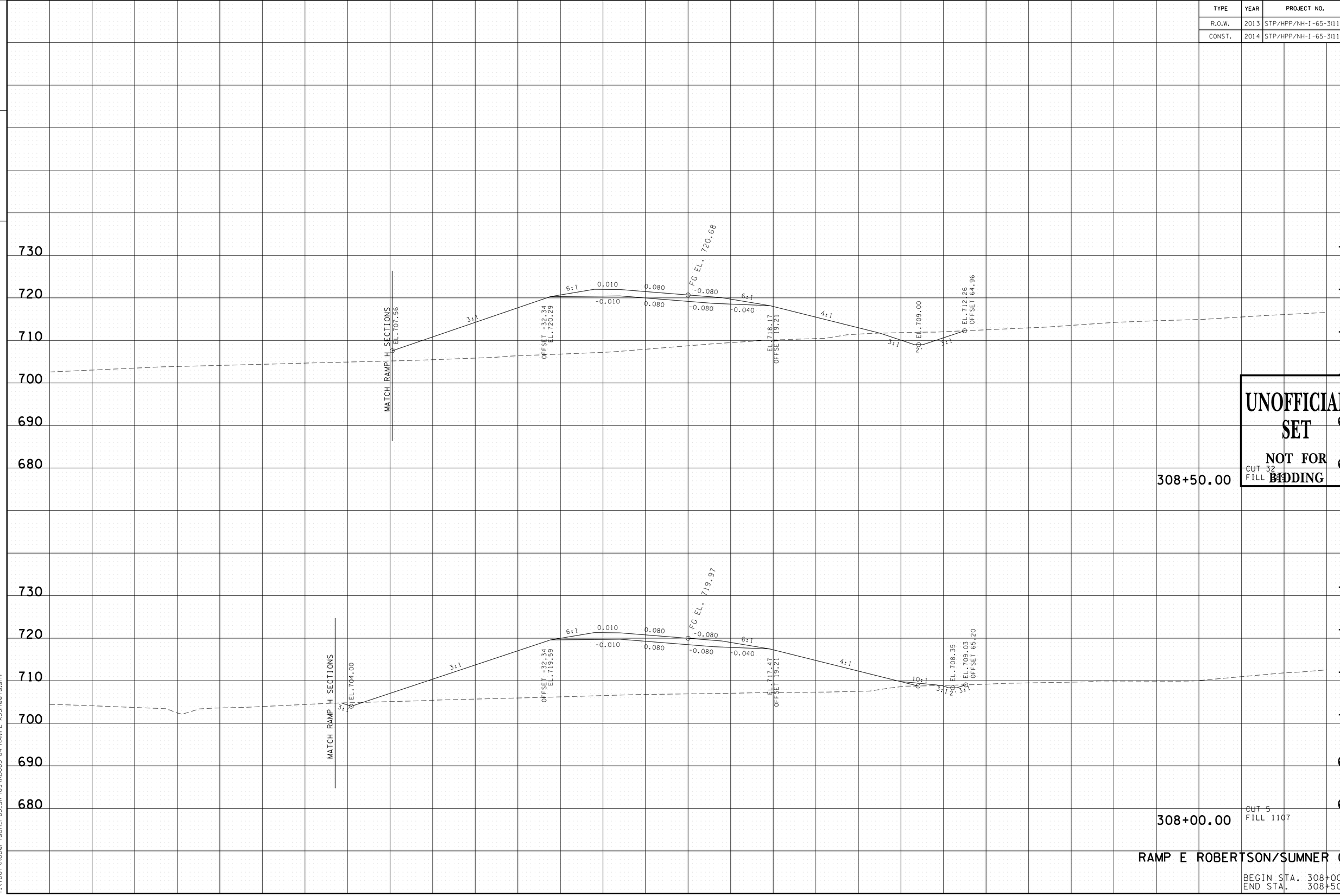
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	352
CONST.	2014	STP/HPP/NH-I-65-3(113)	406

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 308+00.00
END STA. 308+50.00

9/22/2014 10:20:55 PM
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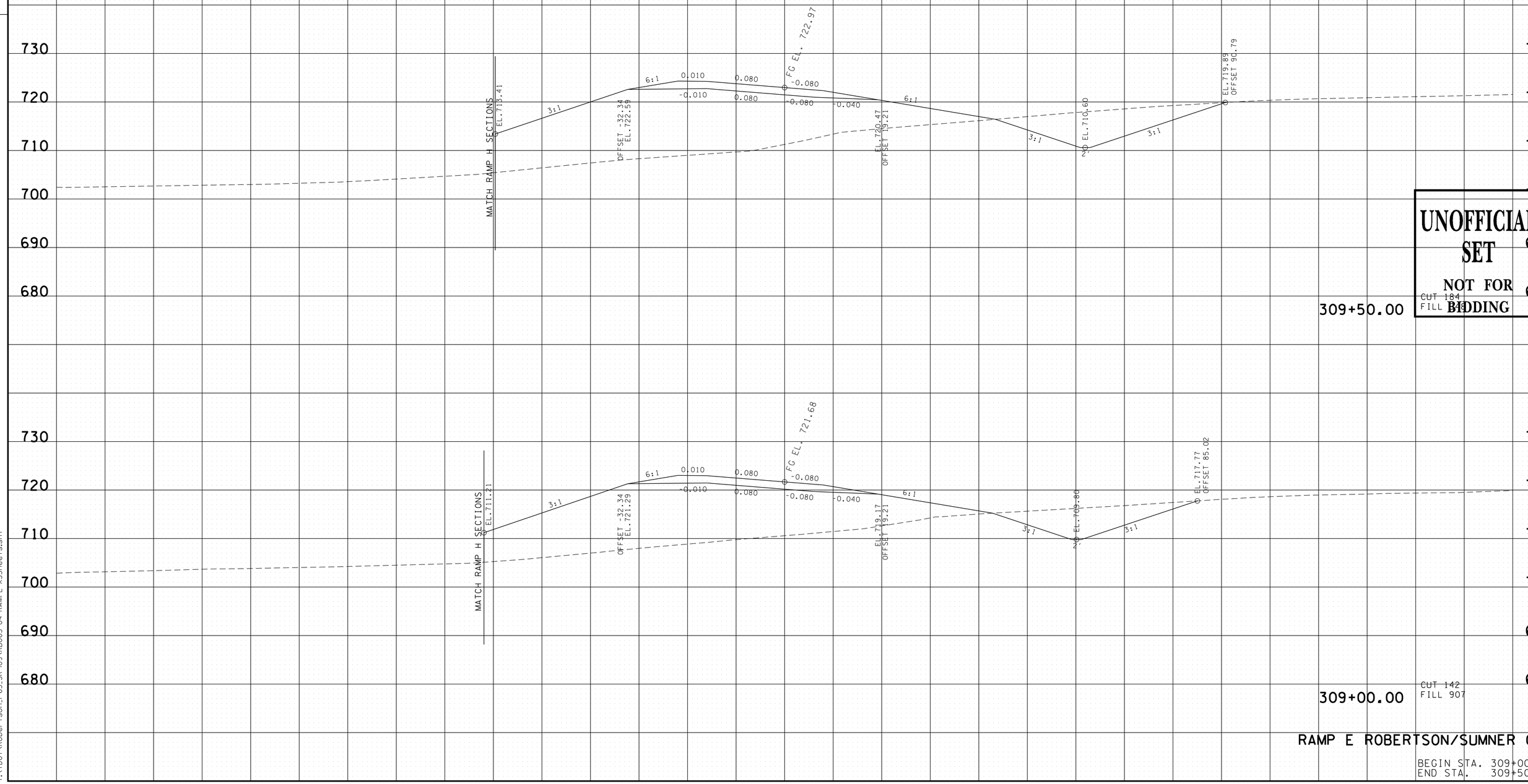
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	353
CONST.	2014	STP/HPP/NH-I-65-3(113)	407

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

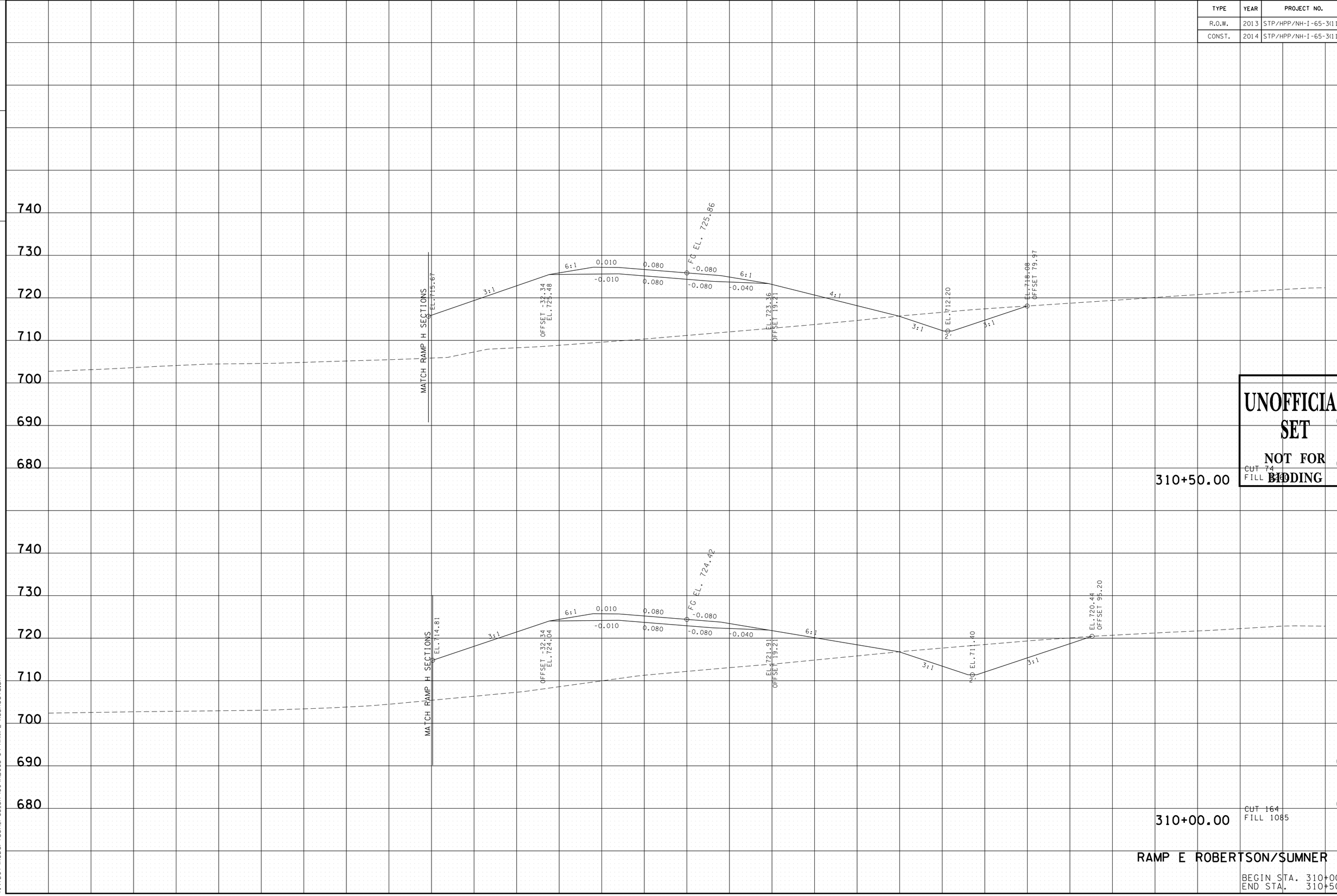
BEGIN STA. 309+00.00
END STA. 309+50.00

9/22/2014 10:20:56 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	354
CONST.	2014	STP/HPP/NH-I-65-3(113)	408

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 310+00.00
END STA. 310+50.00

9/22/2014 10:20:57 PM
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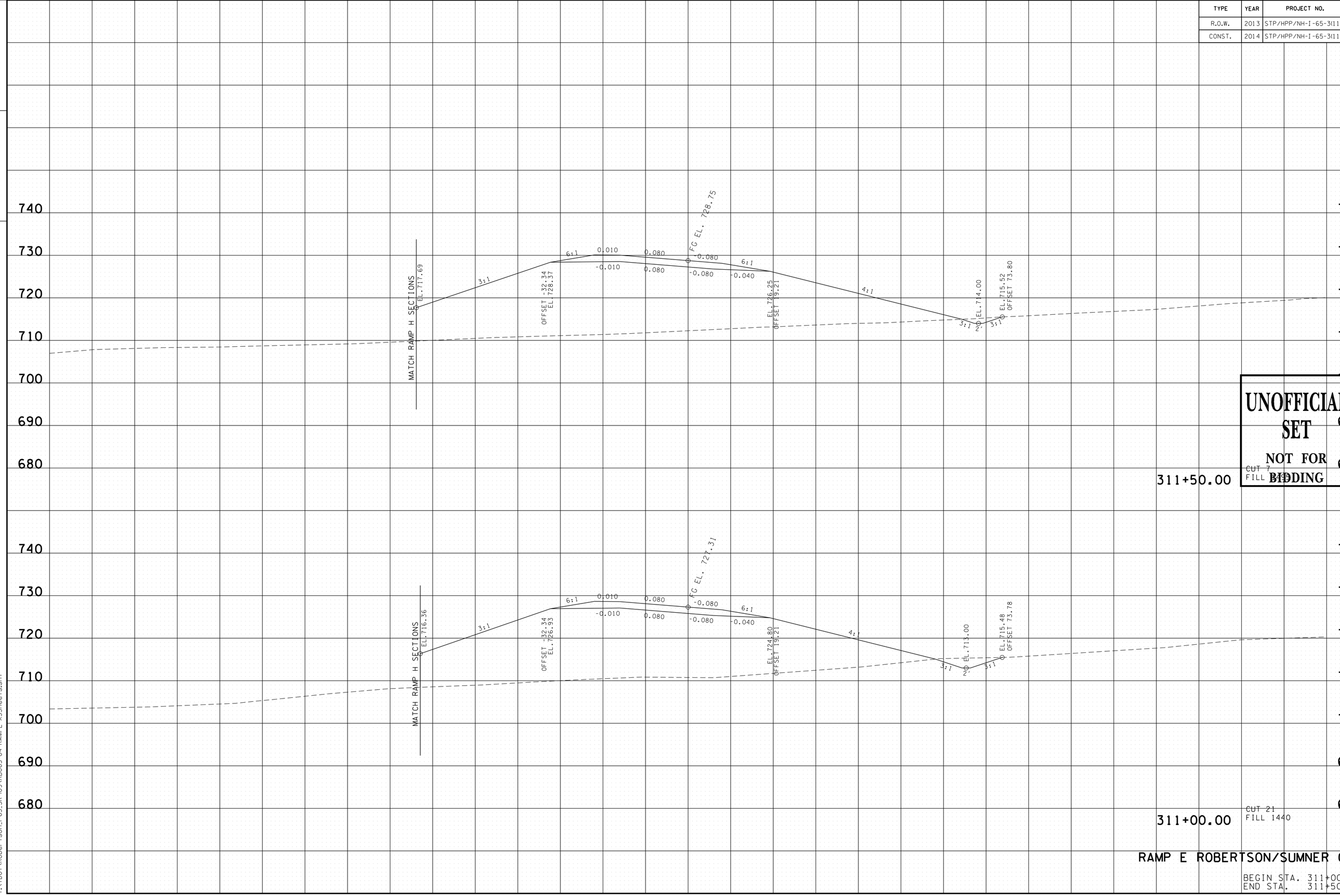
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	355
CONST.	2014	STP/HPP/NH-I-65-3(113)	409

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 311+00.00
END STA. 311+50.00

9/22/2014 10:20:58 PM
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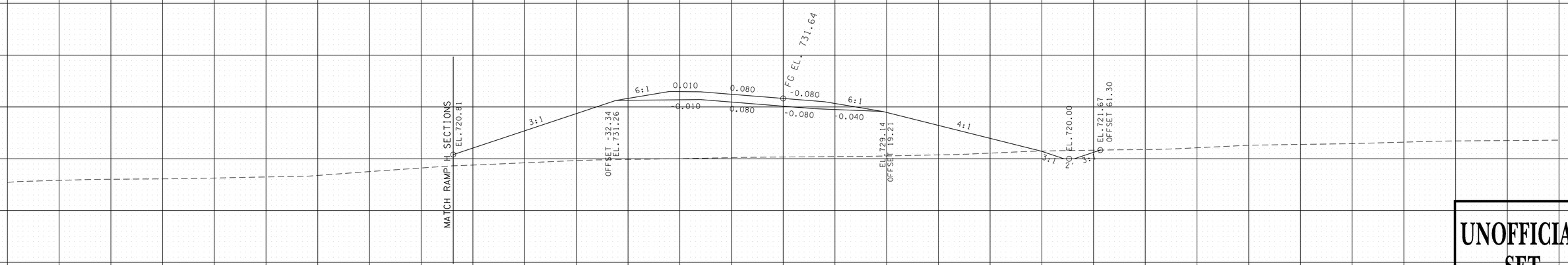
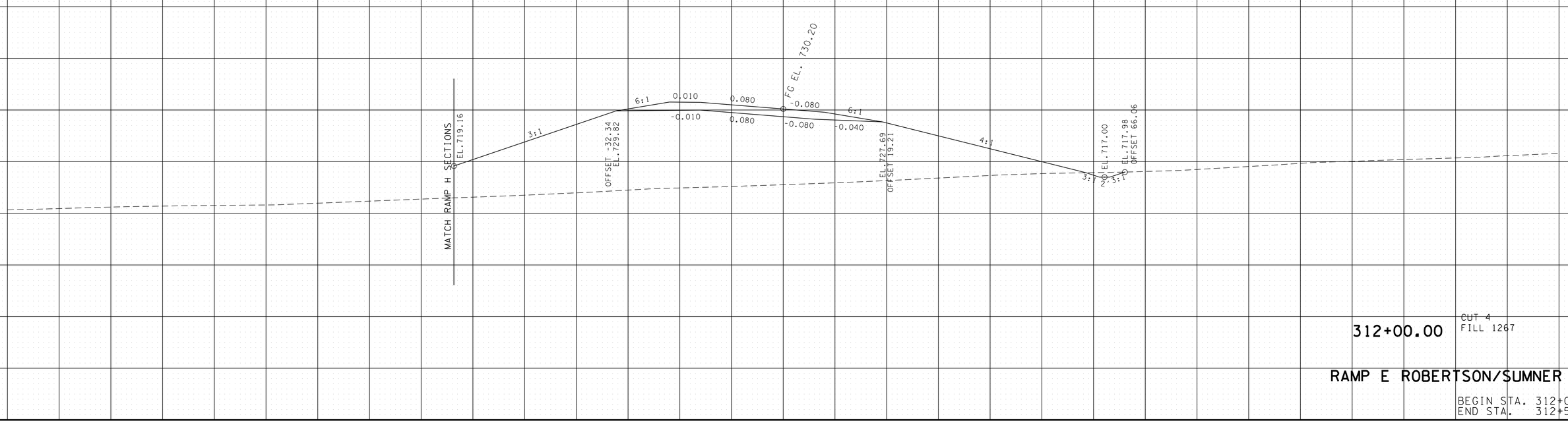
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	356
CONST.	2014	STP/HPP/NH-I-65-3(113)	410

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 312+00.00
END STA. 312+50.00

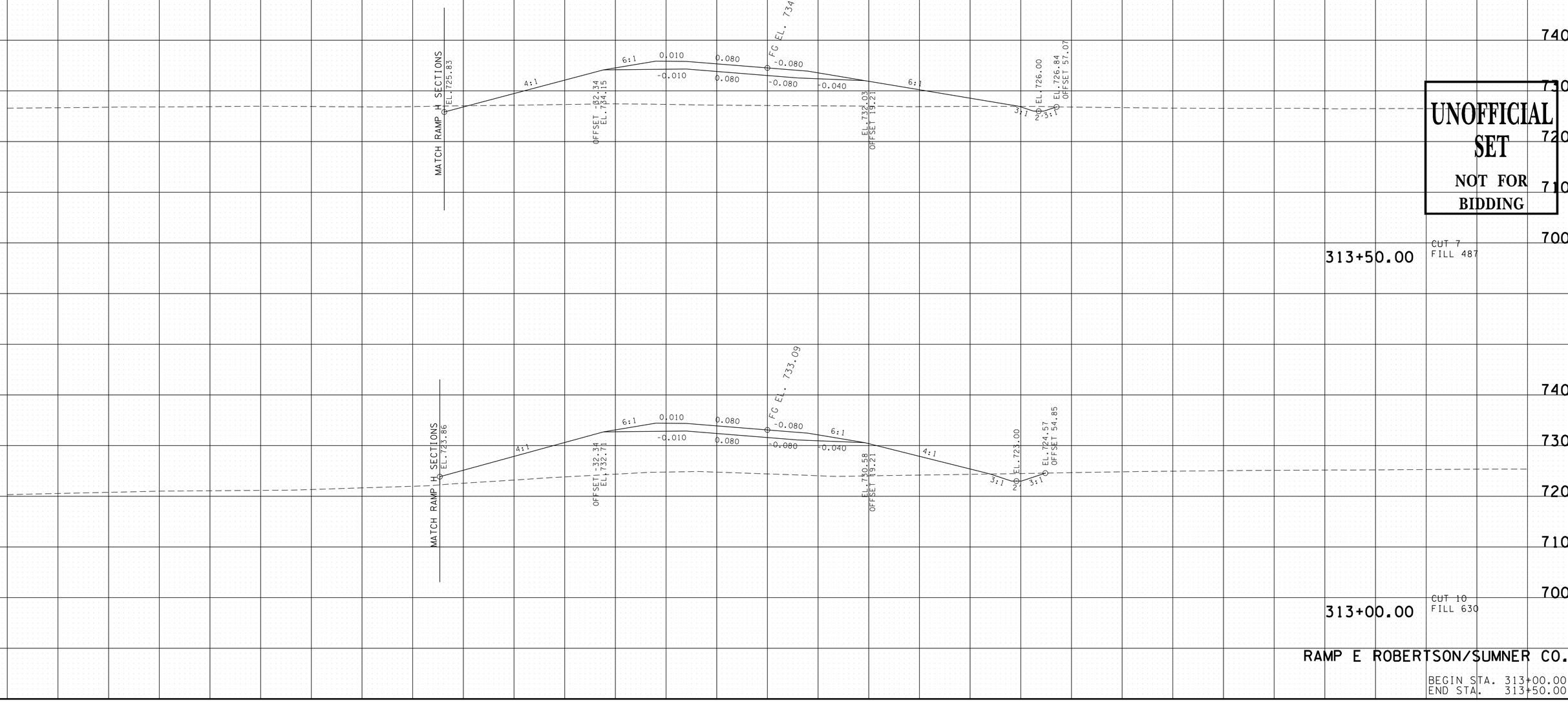
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:20:59 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	357
CONST.	2014	STP/HPP/NH-I-65-3(113)	411

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

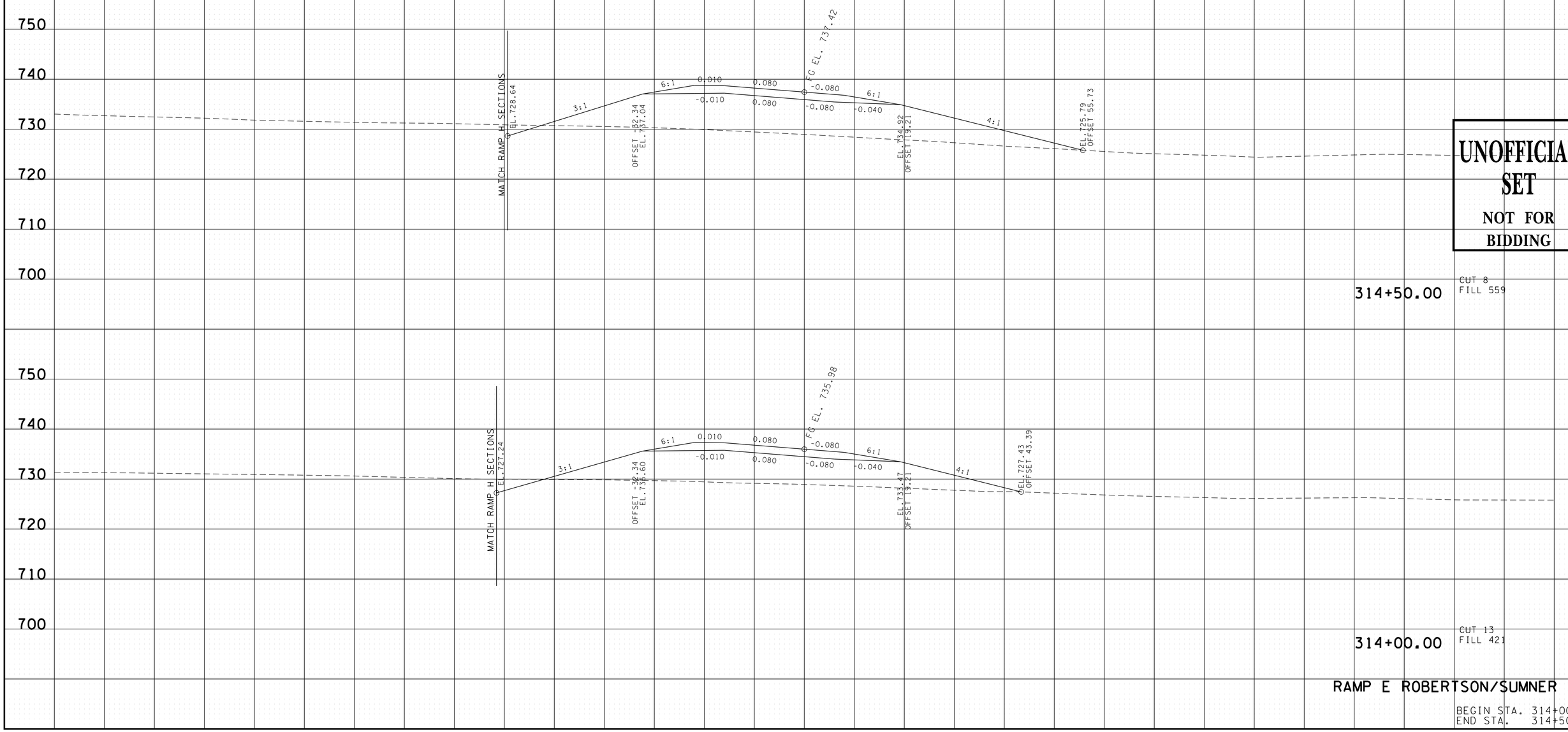
BEGIN STA. 313+00.00
END STA. 313+50.00

9/22/2014 10:21:01 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	358
CONST.	2014	STP/HPP/NH-I-65-3(113)	412

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

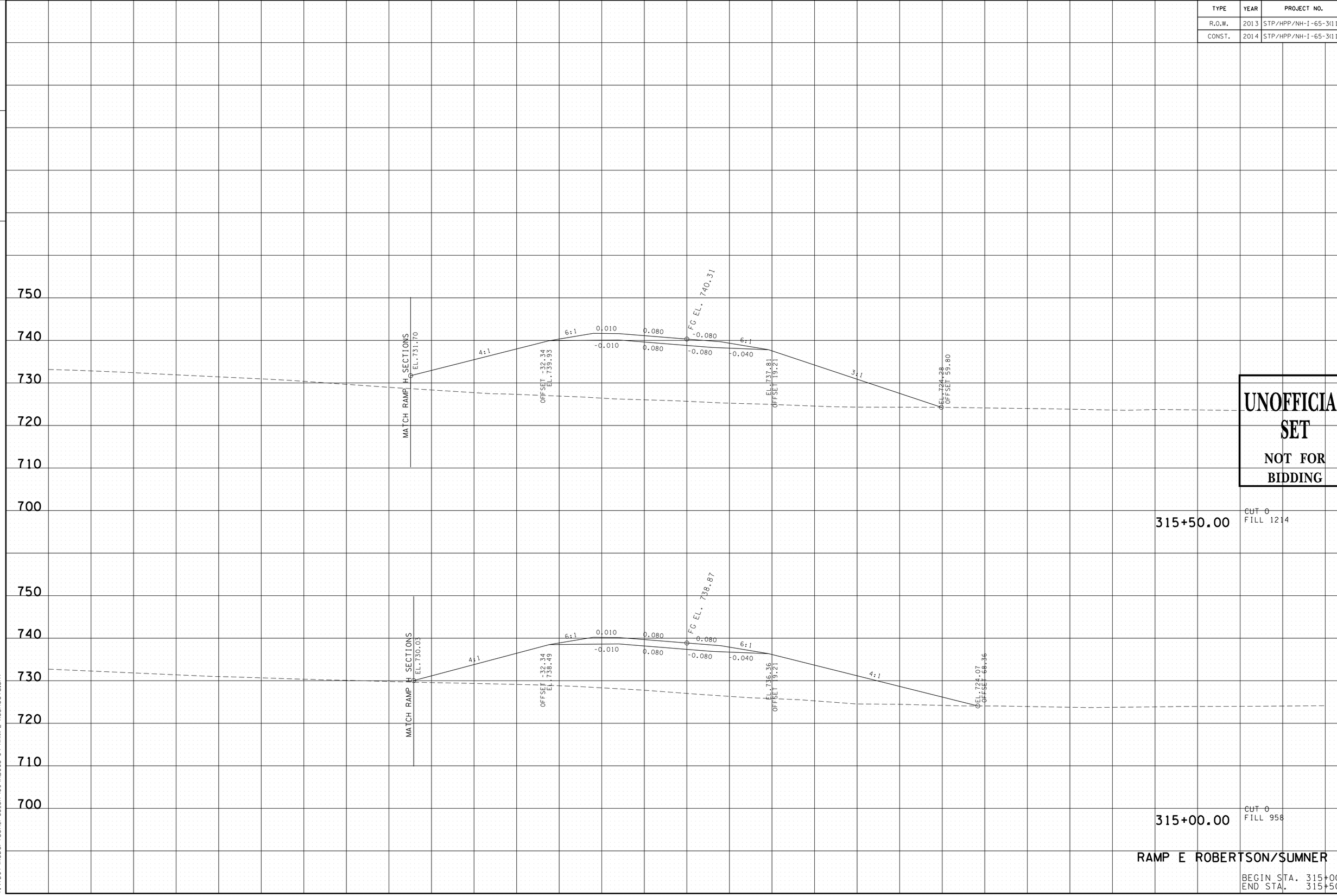
RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 314+00.00
END STA. 314+50.00

9/22/2014 10:21:02 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	359
CONST.	2014	STP/HPP/NH-I-65-3(113)	413

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

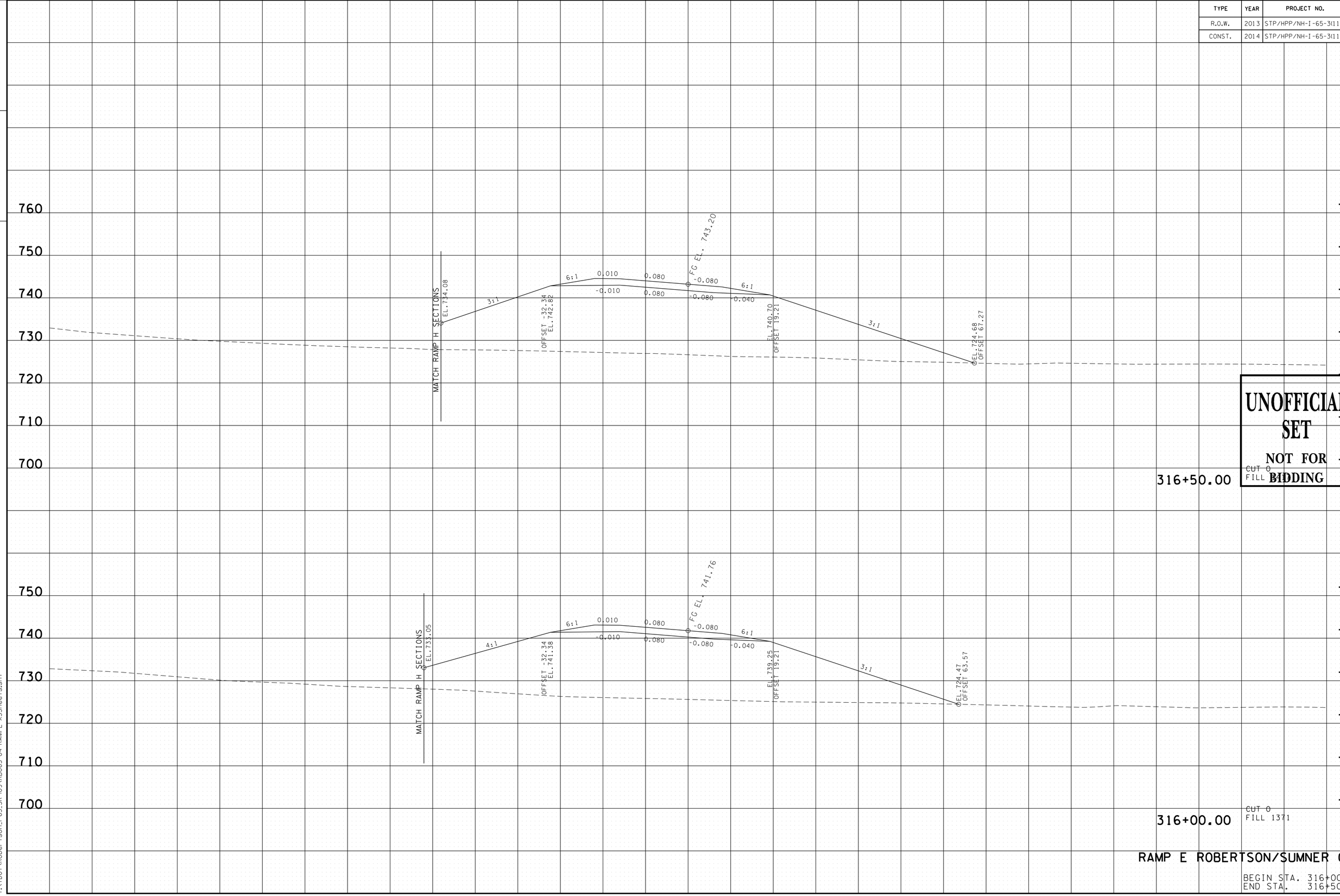
BEGIN STA. 315+00.00
END STA. 315+50.00

9/22/2014 10:21:03 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	360
CONST.	2014	STP/HPP/NH-I-65-3(113)	414

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP E ROBERTSON/SUMNER CO.

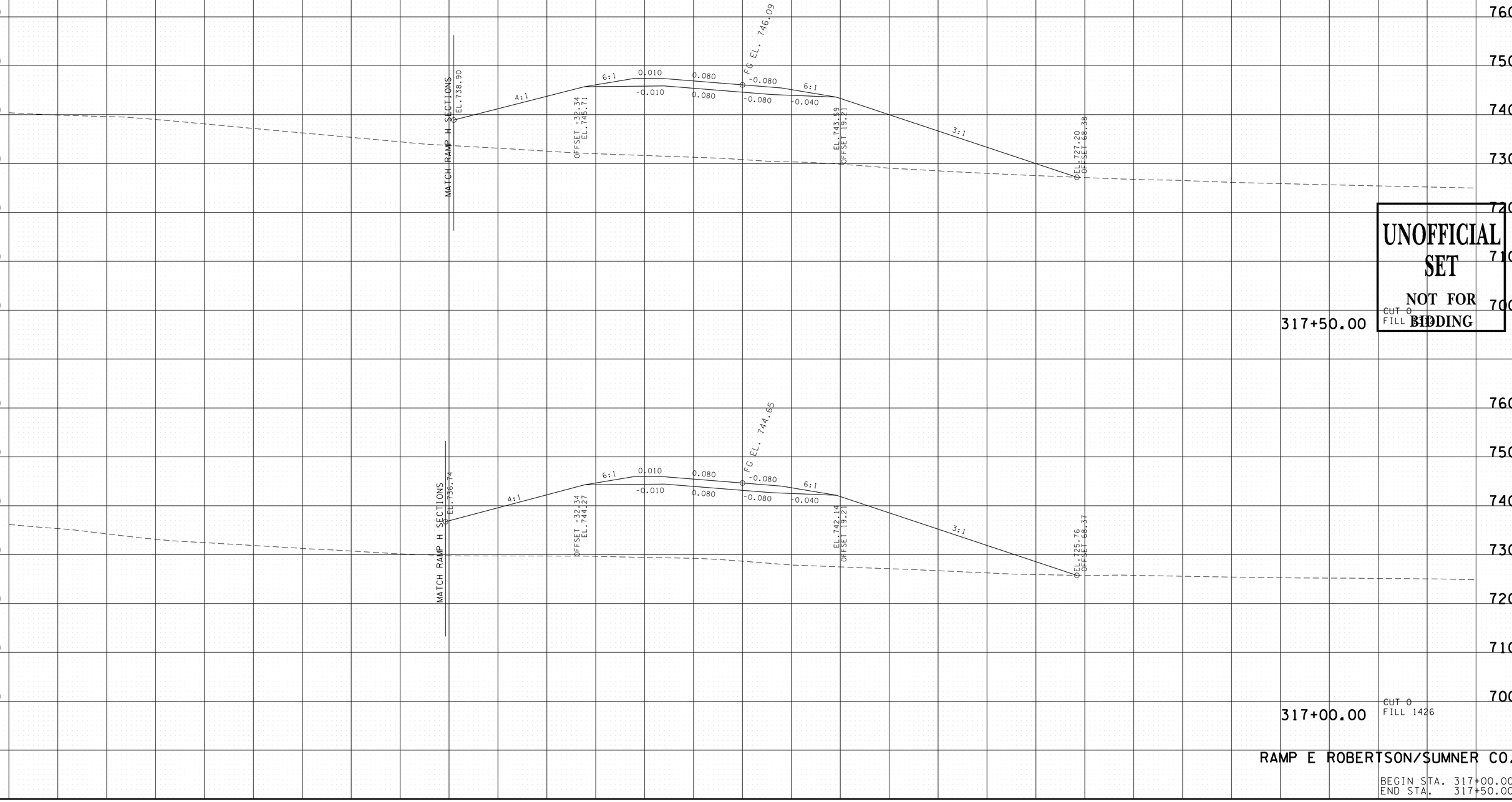
BEGIN STA. 316+00.00
END STA. 316+50.00

9/22/2014 10:21:04 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	361
CONST.	2014	STP/HPP/NH-I-65-3(113)	415

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP E ROBERTSON/SUMNER CO.

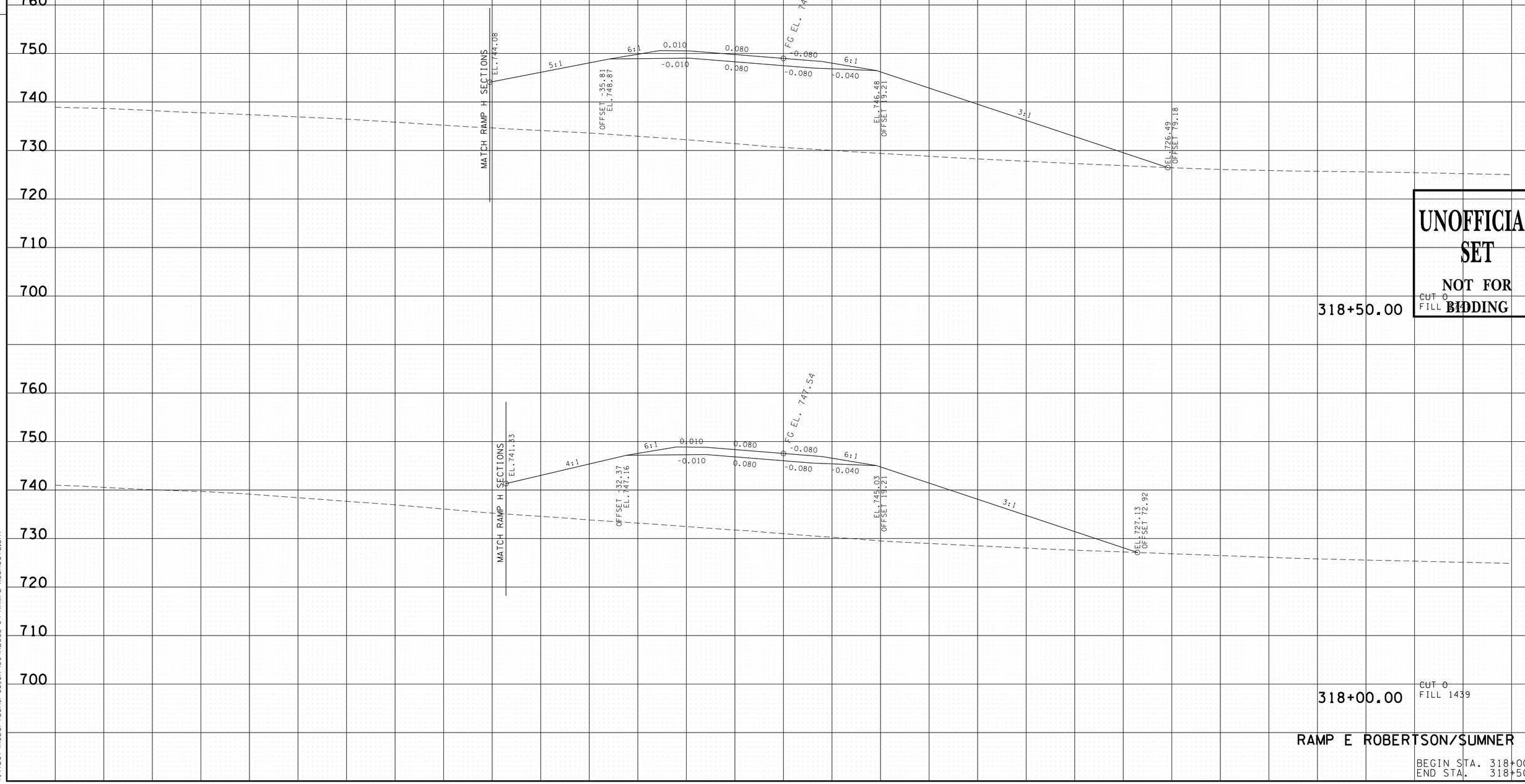
BEGIN STA. 317+00.00
END STA. 317+50.00

9/22/2014 10:21:06 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	362
CONST.	2014	STP/HPP/NH-I-65-3(113)	416

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 318+00.00
END STA. 318+50.00

9/22/2014 10:21:07 PM
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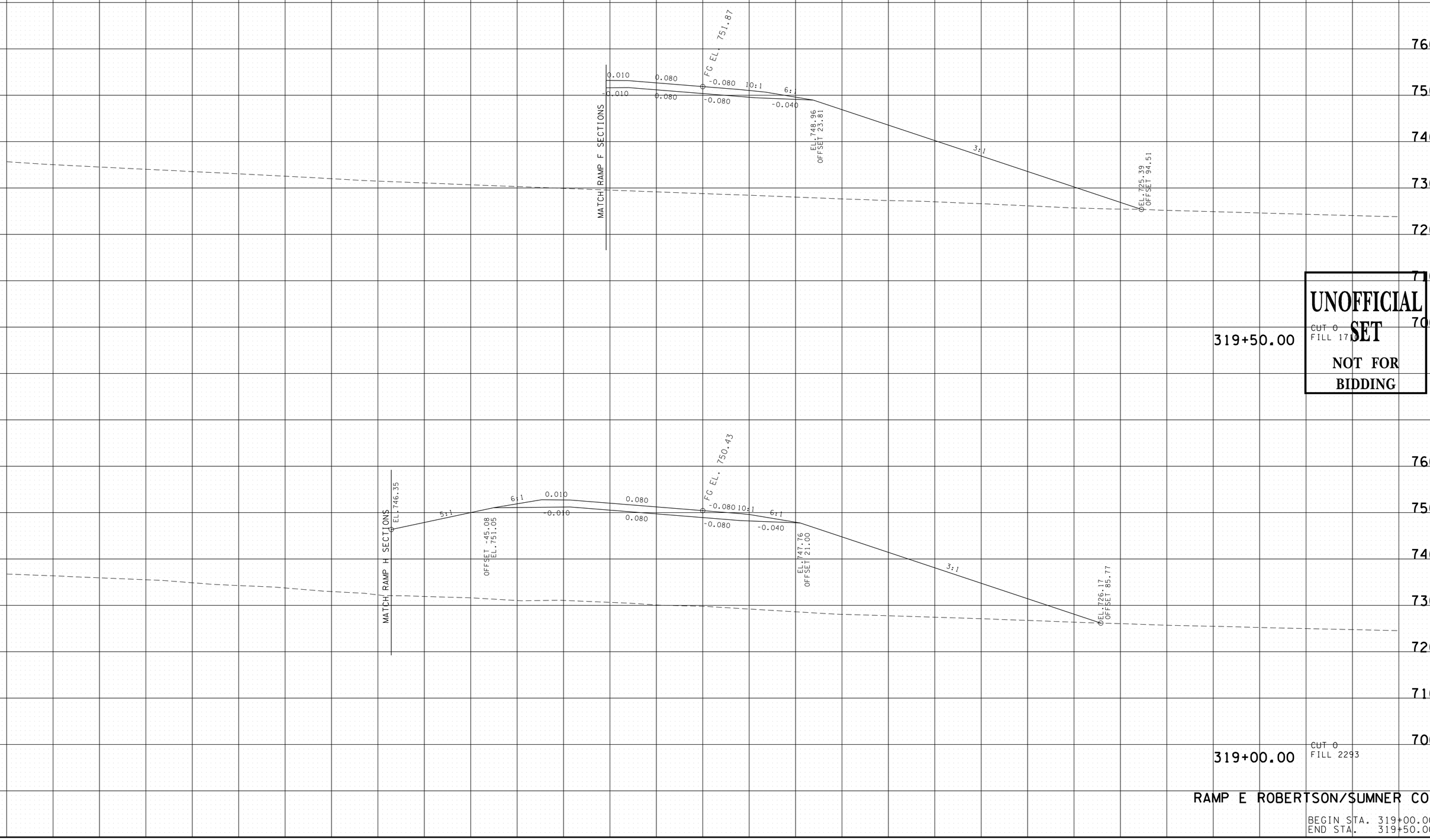
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	363
CONST.	2014	STP/HPP/NH-I-65-3(113)	417

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

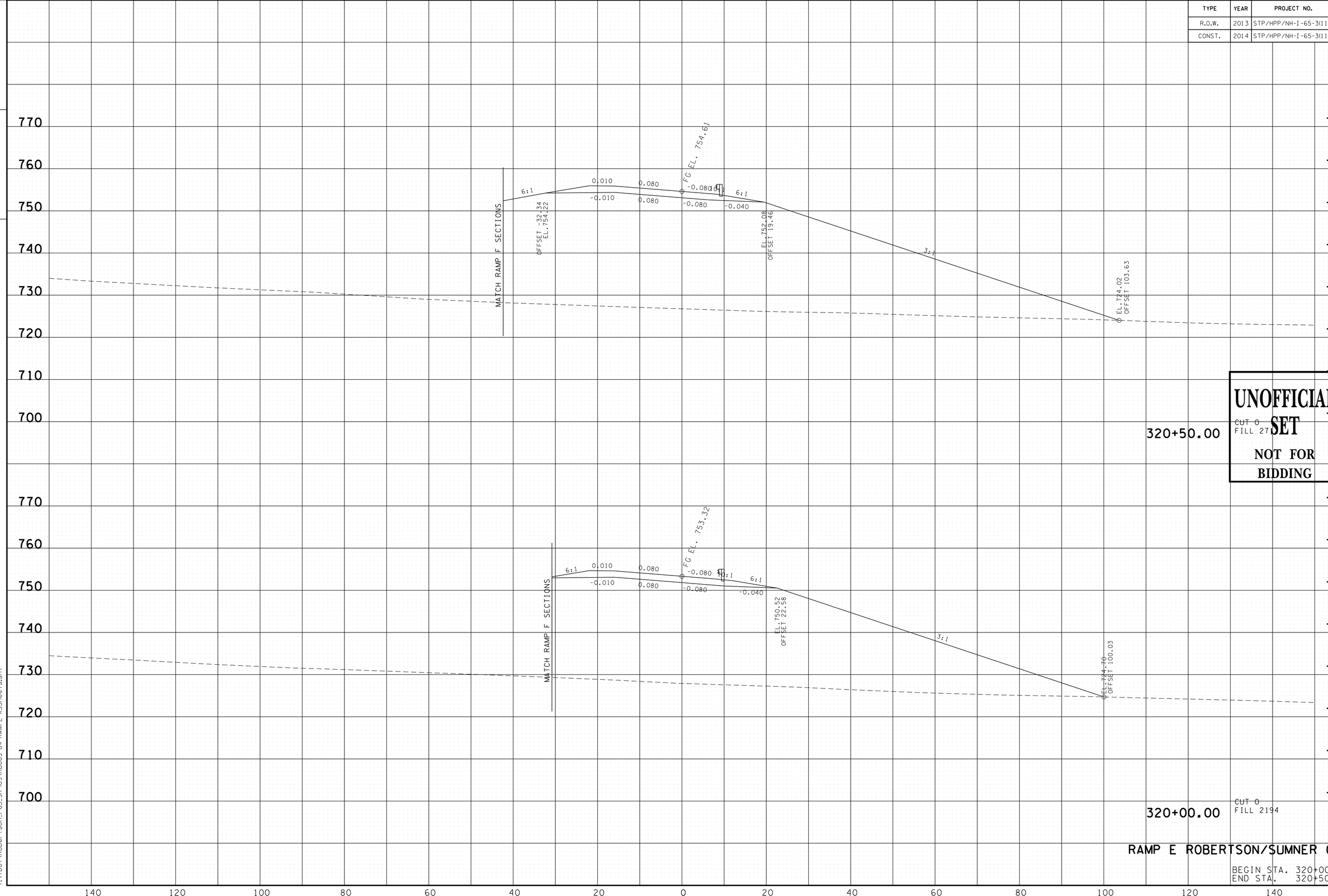
RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 319+00.00
END STA. 319+50.00

9/22/2014 10:21:08 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	364
CONST.	2014	STP/HPP/NH-I-65-3(113)	418

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

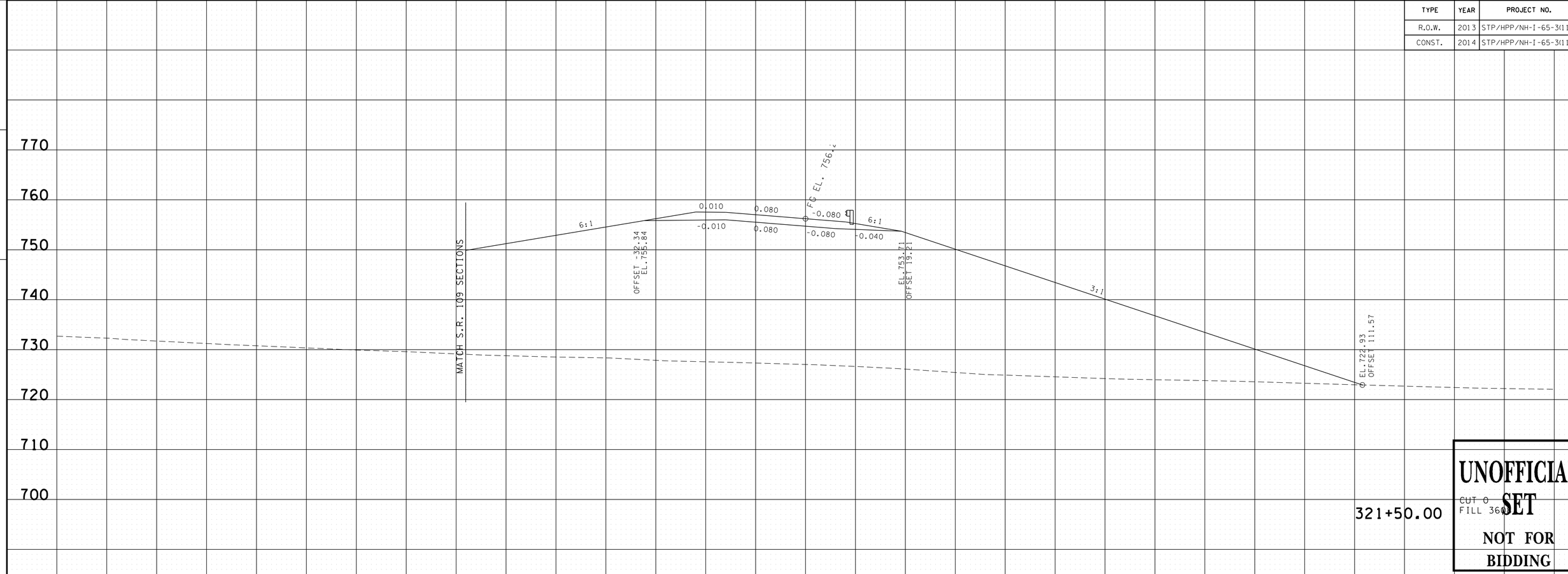
RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 320+00.00
END STA. 320+50.00

9/22/2014 10:21:09 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	365
CONST.	2014	STP/HPP/NH-I-65-3(113)	419

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



RAMP E ROBERTSON/SUMNER CO.

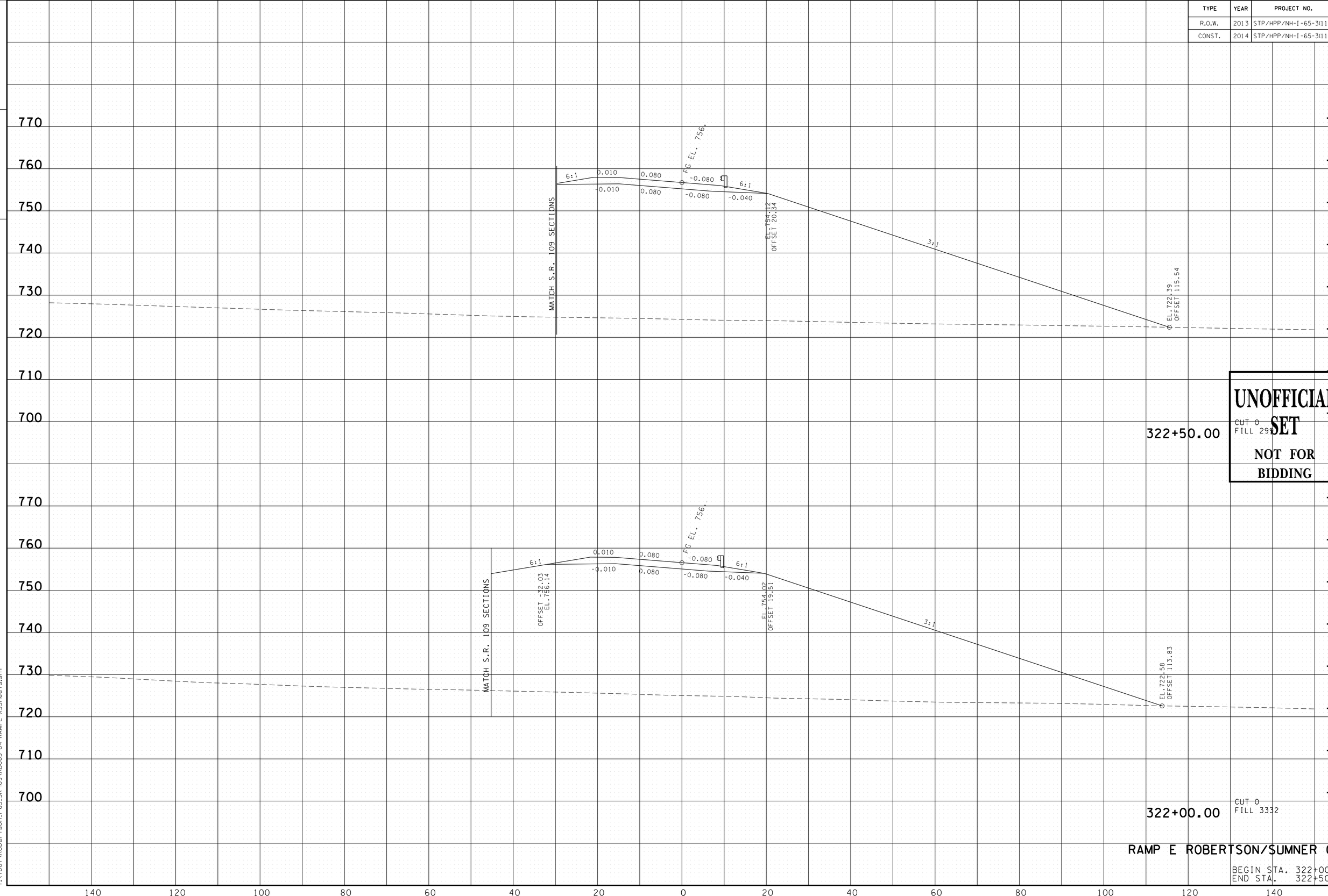
BEGIN STA. 321+00.00
END STA. 321+50.00

9/22/2014 10:21:10 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	366
CONST.	2014	STP/HPP/NH-I-65-3(113)	420

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET

NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

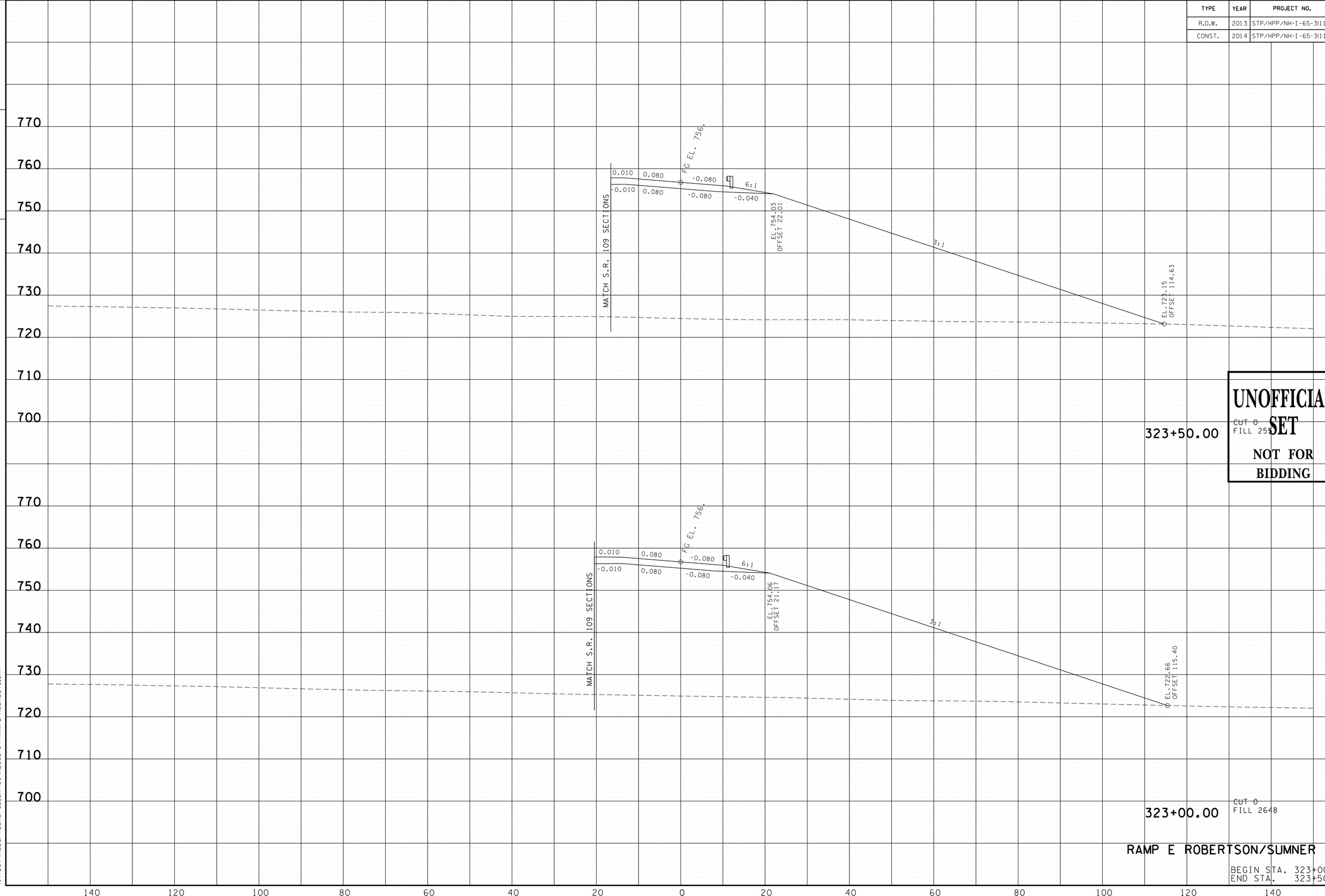
BEGIN STA. 322+00.00
END STA. 322+50.00

9/22/2014 10:21:12 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	367
CONST.	2014	STP/HPP/NH-I-65-3(113)	421

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP E ROBERTSON/SUMNER CO.

BEGIN STA. 323+00.00
END STA. 323+50.00

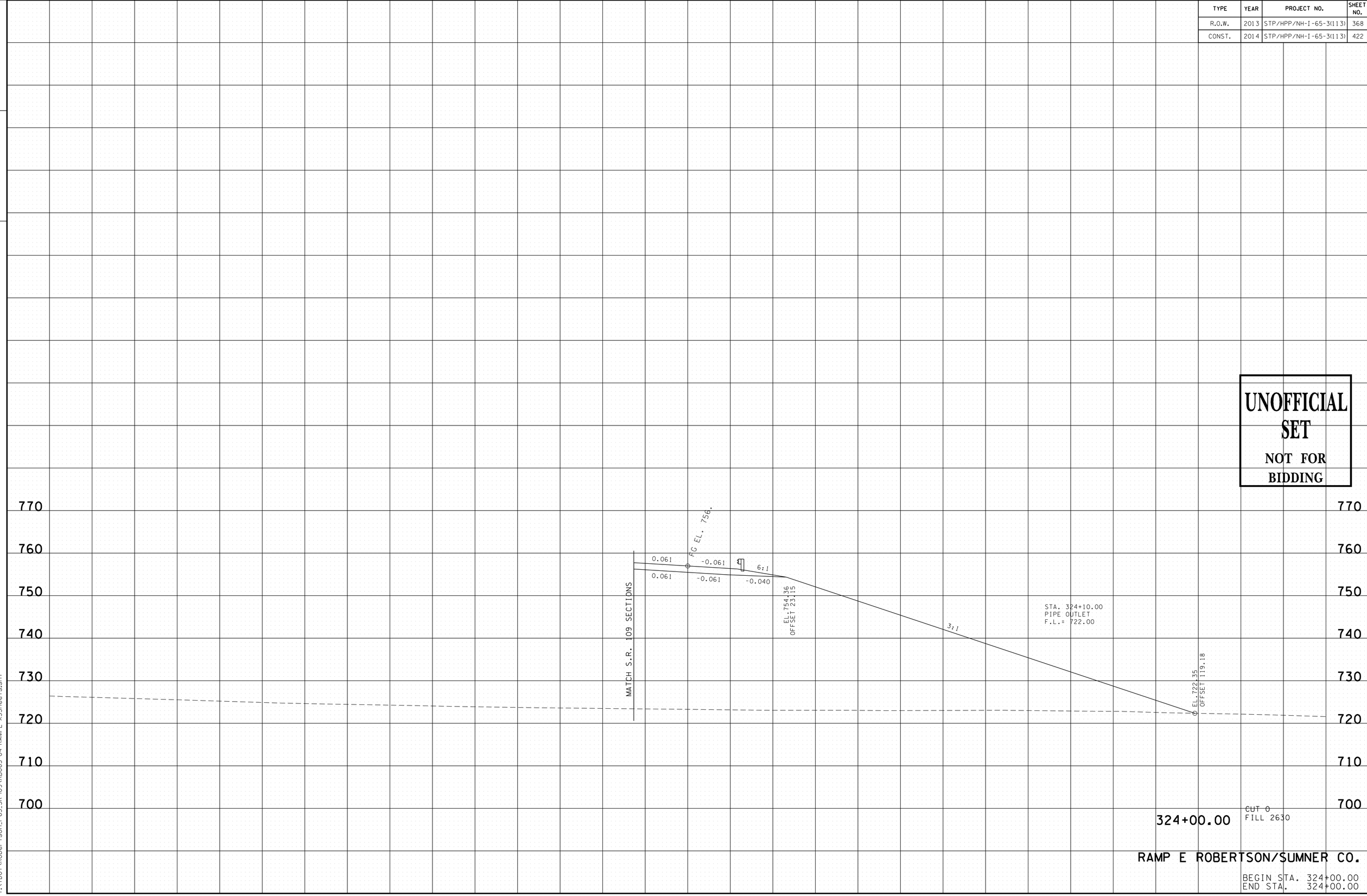
9/22/2014 10:21:13 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	368
CONST.	2014	STP/HPP/NH-I-65-3(113)	422

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

UNOFFICIAL SET
NOT FOR BIDDING



324+00.00

CUT 0
FILL 2630

RAMP E ROBERTSON/SUMNER CO.

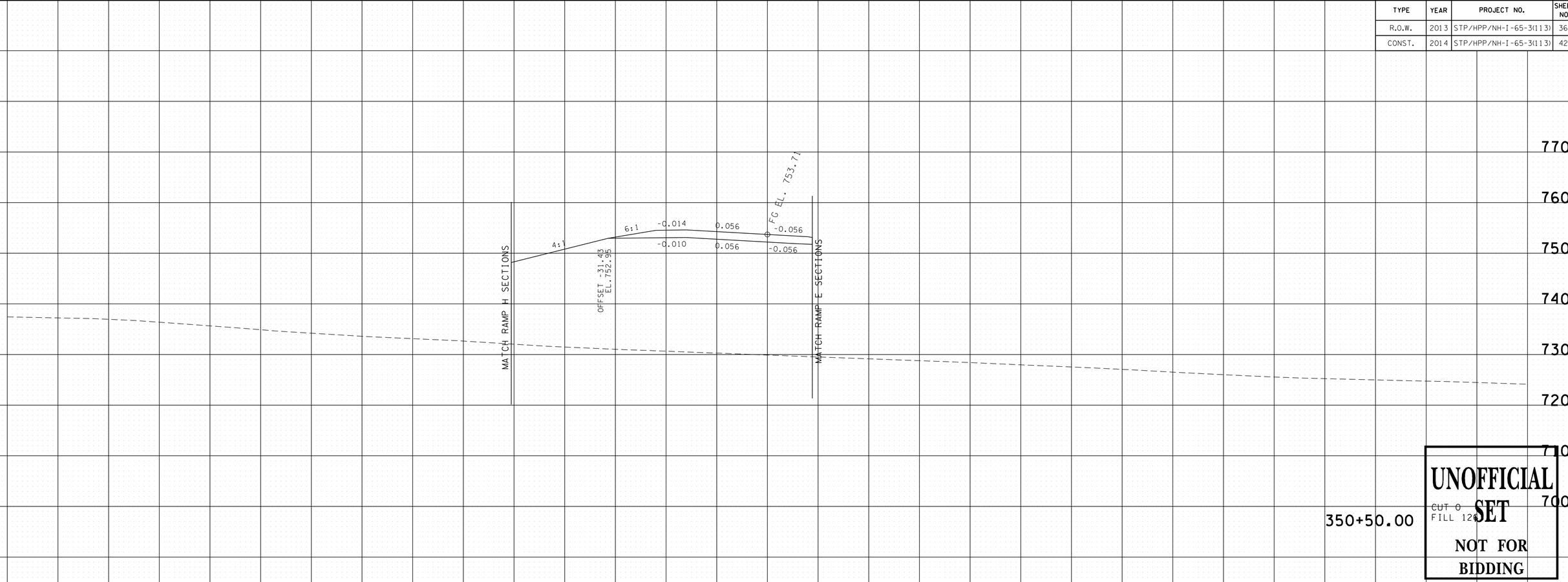
BEGIN STA. 324+00.00
END STA. 324+00.00

9/22/2014 10:21:14 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPE-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	369
CONST.	2014	STP/HPP/NH-I-65-3(113)	423

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

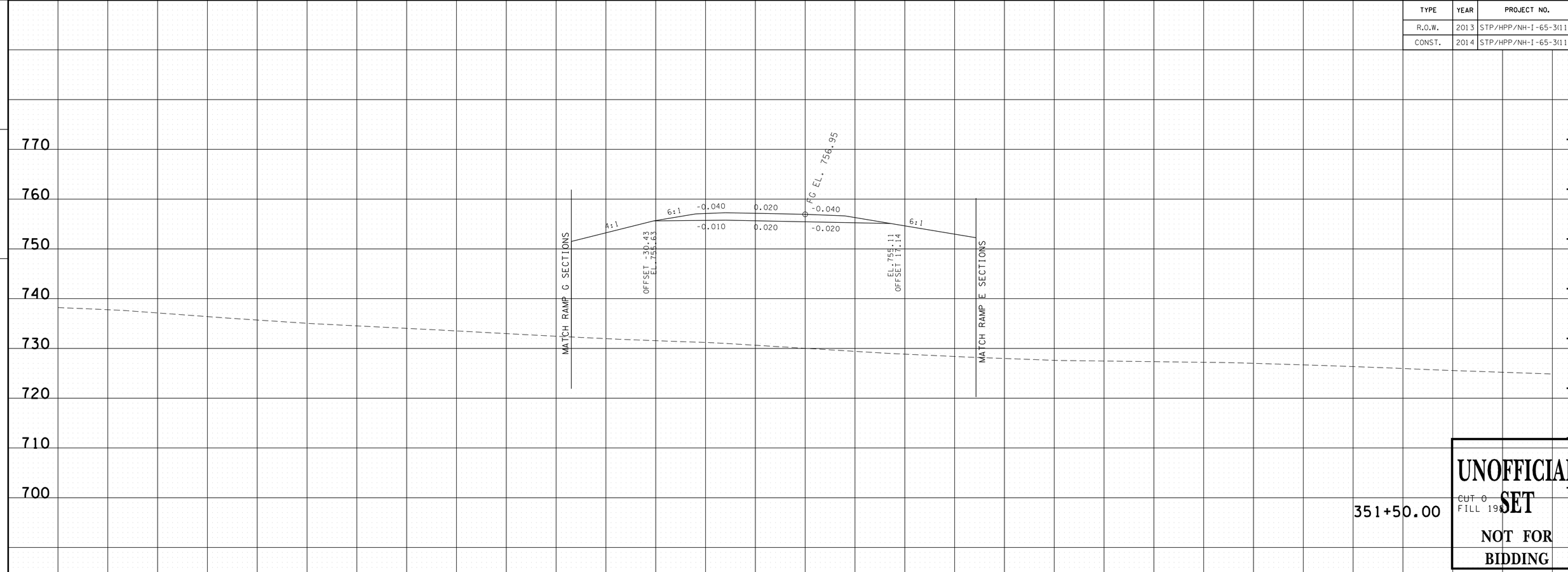
RAMP F ROBERTSON/SUMNER CO.

BEGIN STA. 350+00.00
END STA. 350+50.00

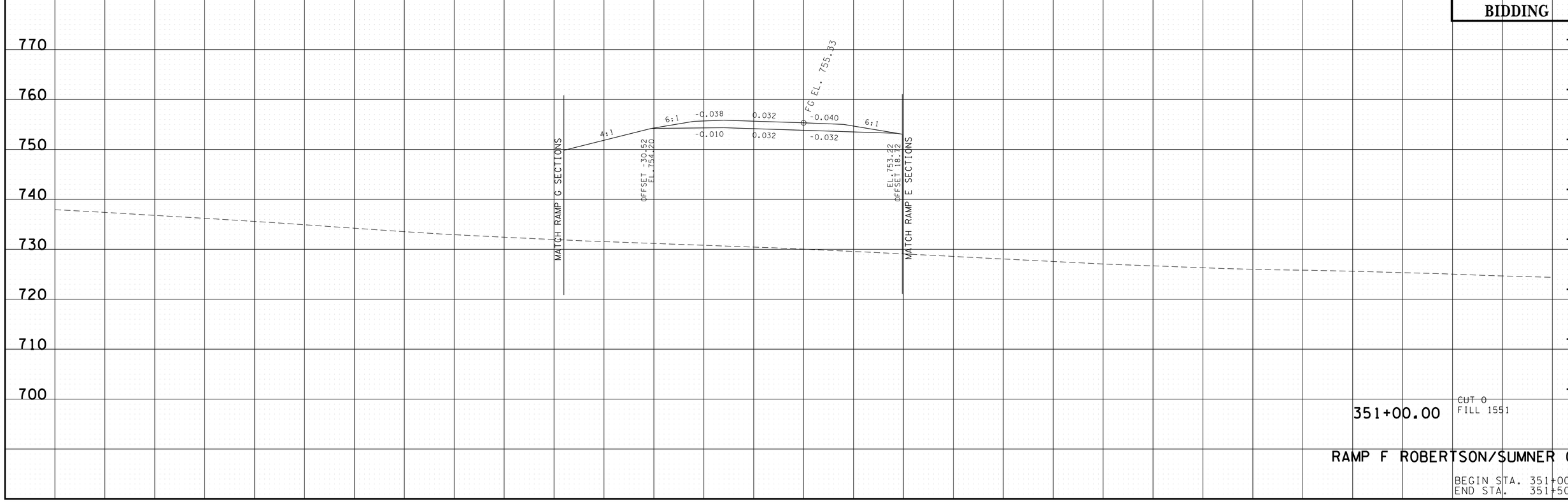
9/22/2014 10:21:15 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPF-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	370
CONST.	2014	STP/HPP/NH-I-65-3(113)	424

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP F ROBERTSON/SUMNER CO.

BEGIN STA. 351+00.00
END STA. 351+50.00

9/22/2014 10:21:16 PM
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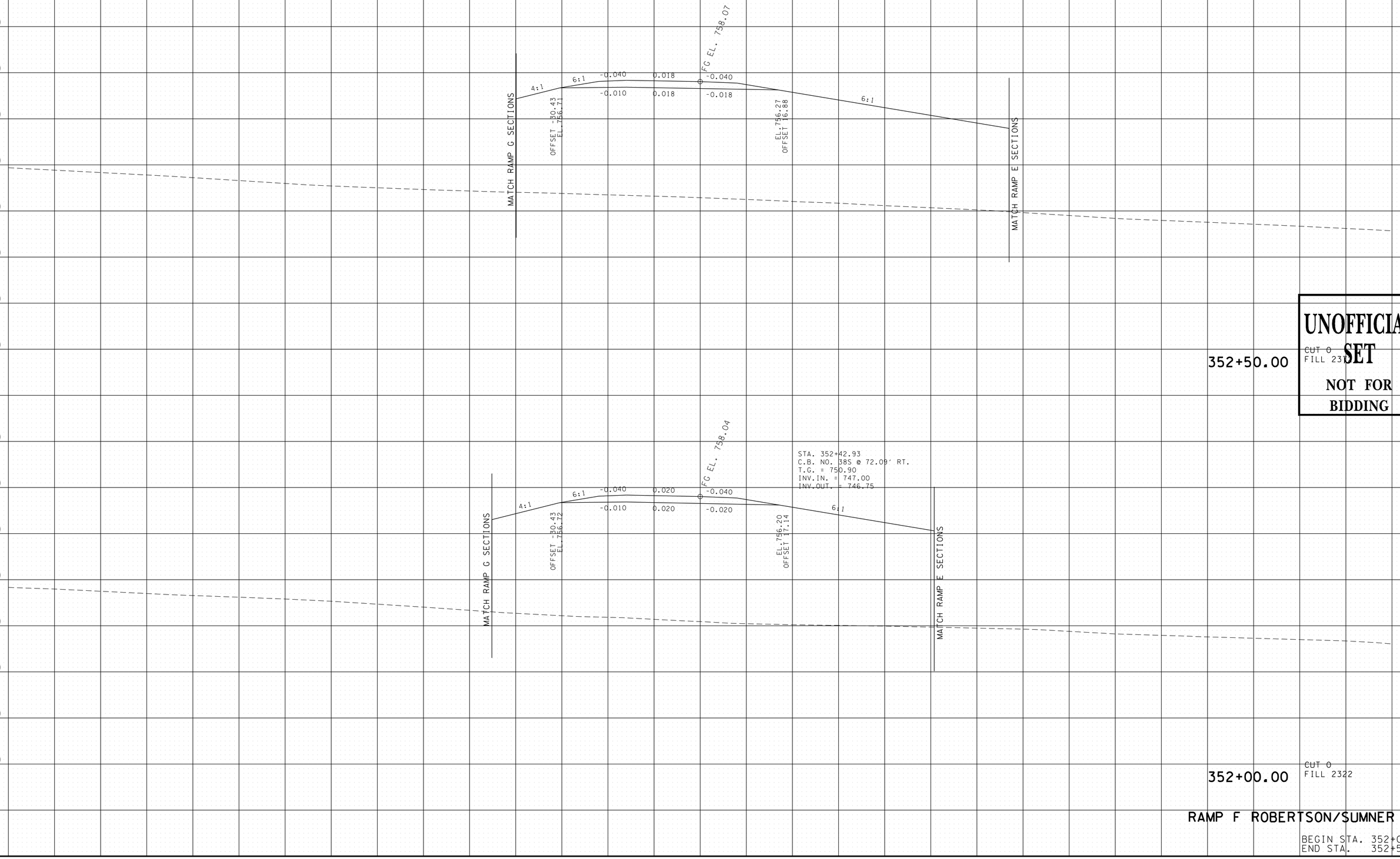
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	371
CONST.	2014	STP/HPP/NH-I-65-3(113)	425

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP F ROBERTSON/SUMNER CO.

BEGIN STA. 352+00.00
END STA. 352+50.00

9/22/2014 10:21:17 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPF-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	372
CONST.	2014	STP/HPP/NH-I-65-3(113)	426

UNOFFICIAL SET

NOT FOR BIDDING

740

730

MATCH S.R. 109 SECTIONS

353+00.00

740

730

RAMP F ROBERTSON/SUMNER CO.

BEGIN STA. 353+00.00
END STA. 353+00.00

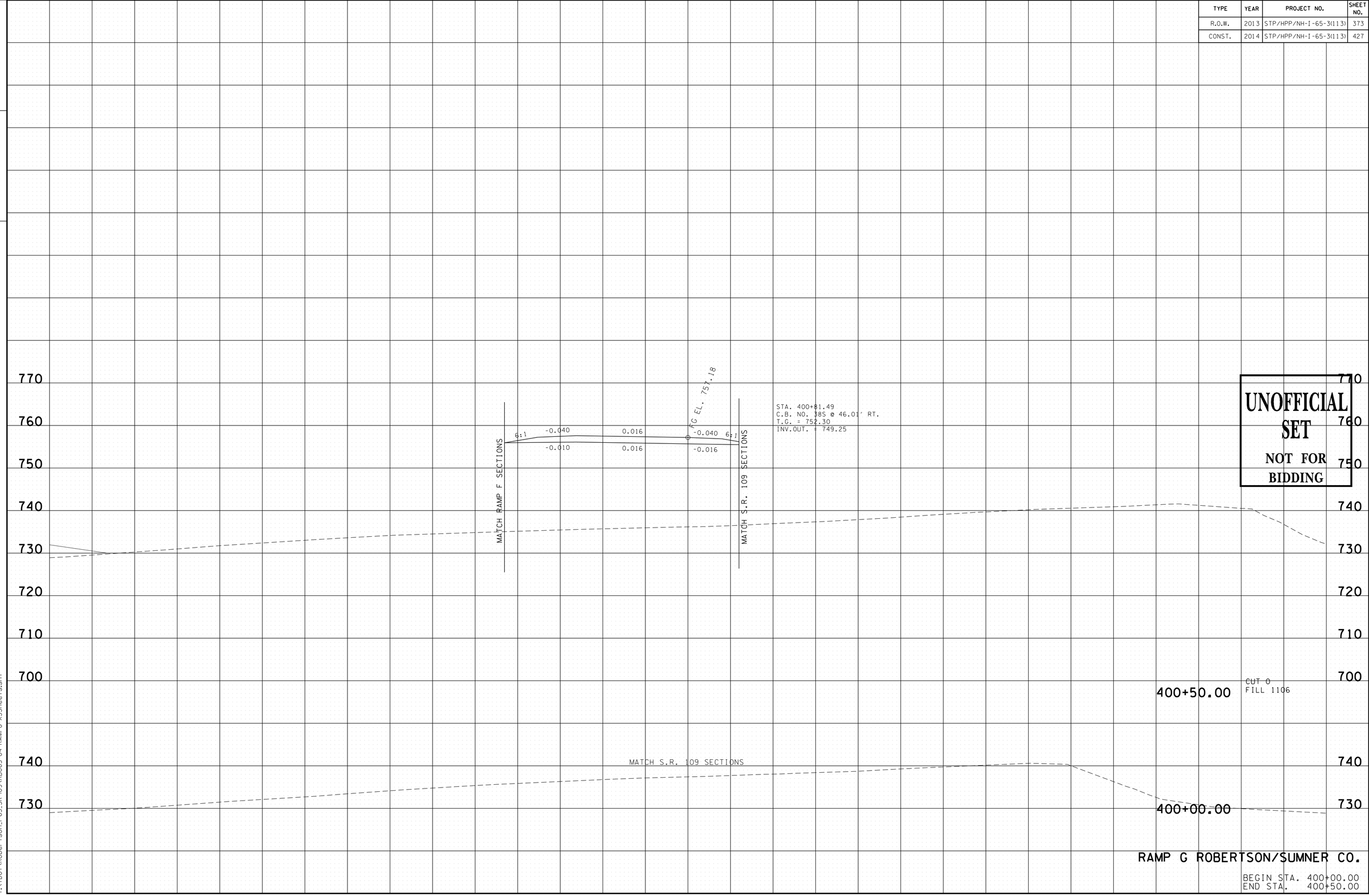
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:21:17 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPF-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	373
CONST.	2014	STP/HPP/NH-I-65-3(113)	427

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP G ROBERTSON/SUMNER CO.

BEGIN STA. 400+00.00
END STA. 400+50.00

9/22/2014 10:21:18 PM
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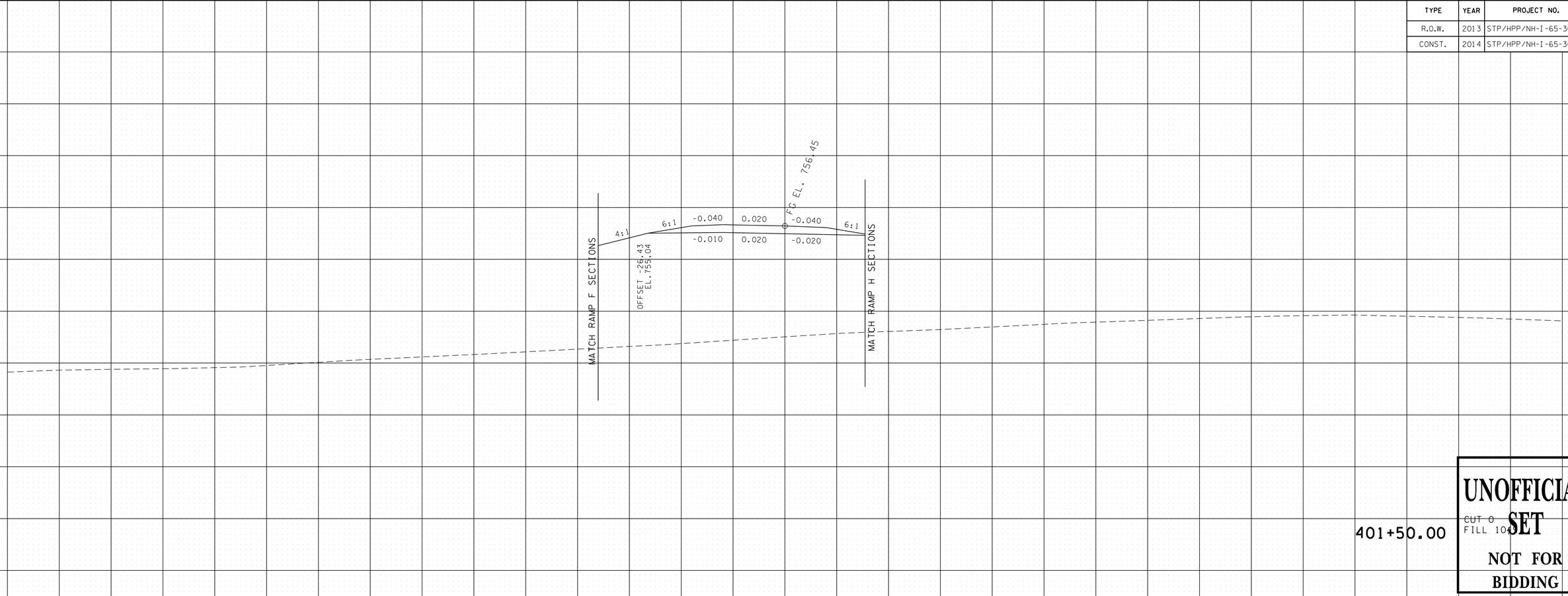
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	374
CONST.	2014	STP/HPP/NH-I-65-3(113)	428

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP G ROBERTSON/SUMNER CO.

BEGIN STA. 401+00.00
END STA. 401+50.00

9/22/2014 10:21:19 PM
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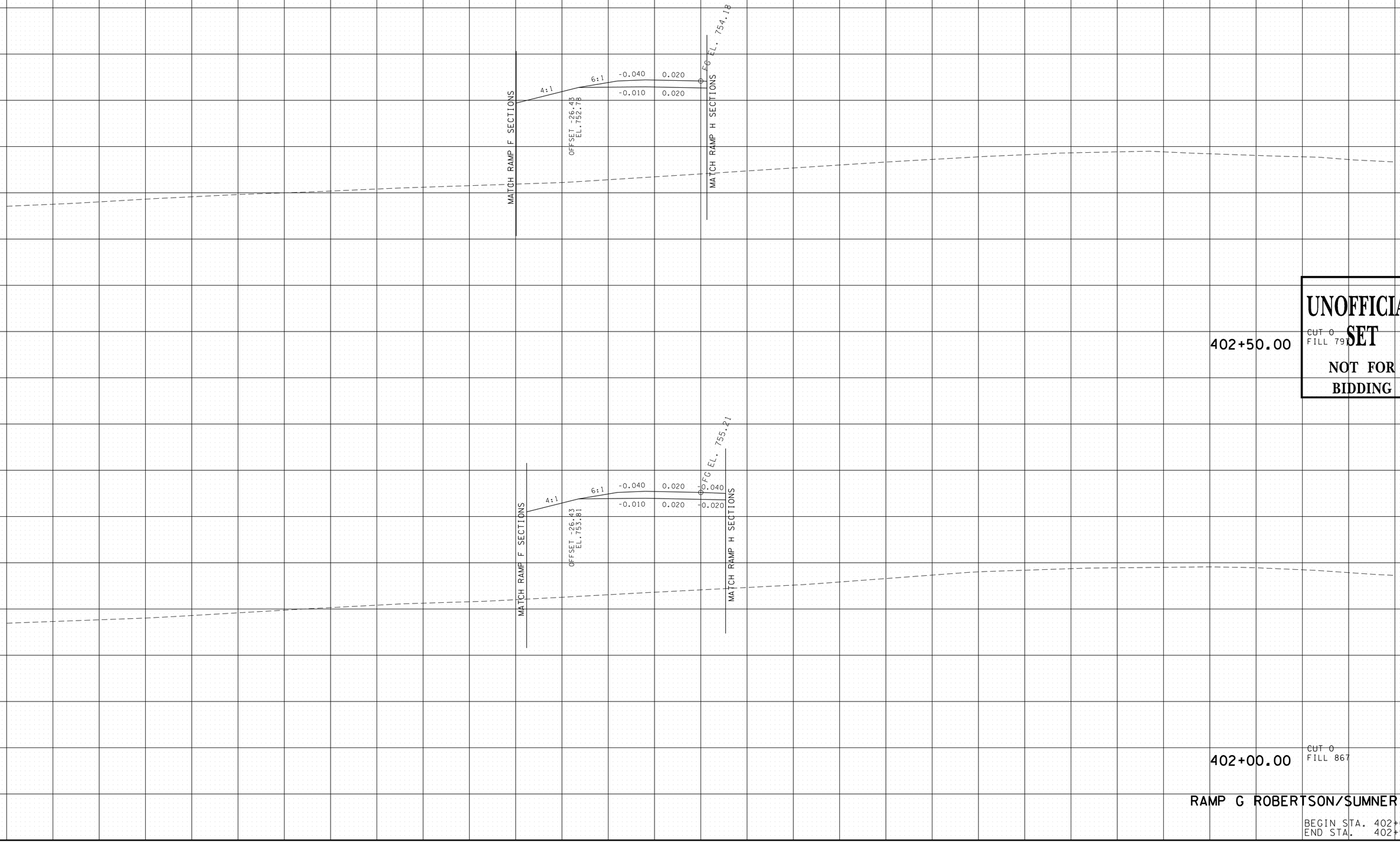
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	375
CONST.	2014	STP/HPP/NH-I-65-3(113)	429

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP G ROBERTSON/SUMNER CO.

BEGIN STA. 402+00.00
END STA. 402+50.00

9/22/2014 10:21:20 PM
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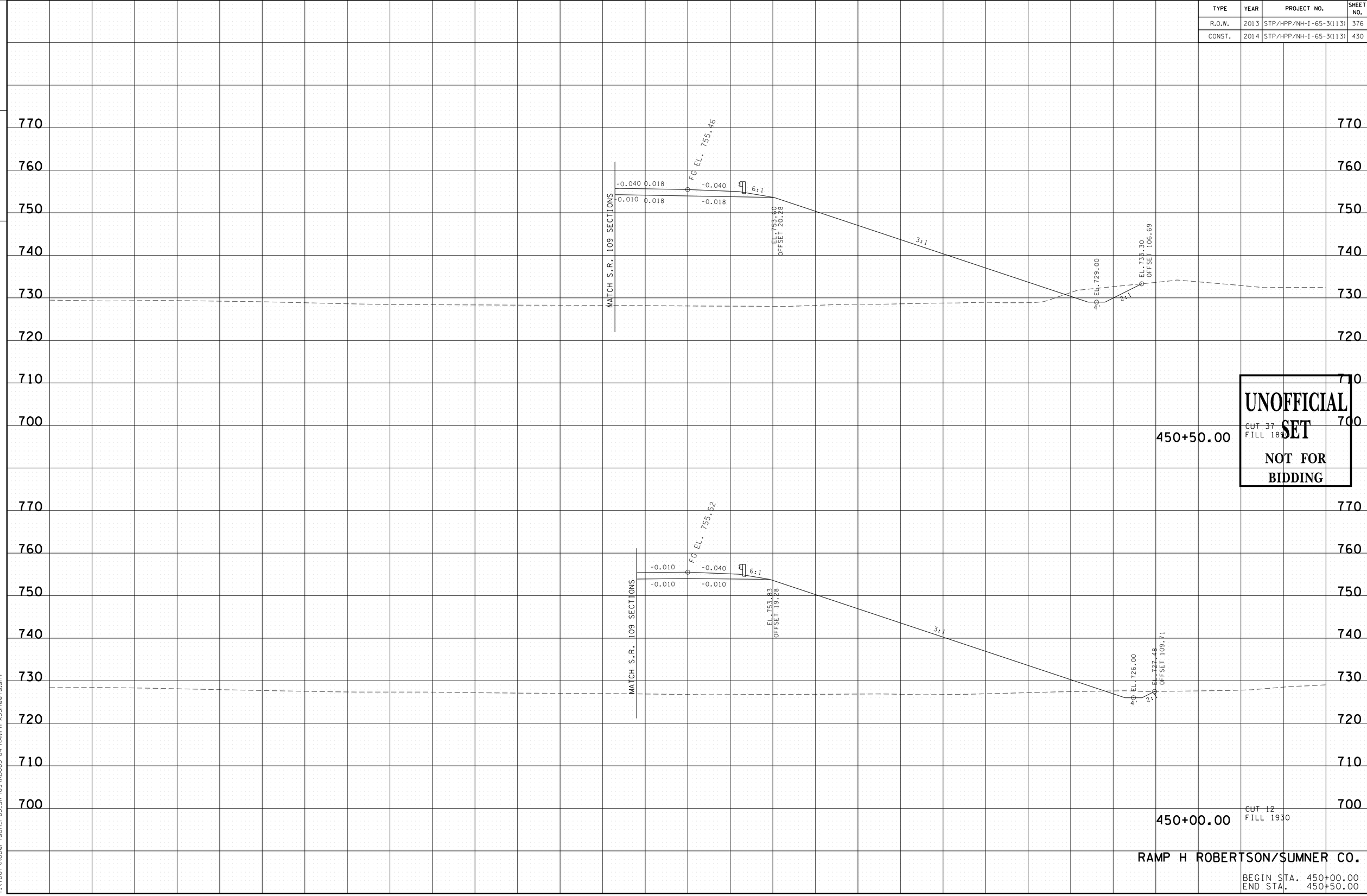
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	376
CONST.	2014	STP/HPP/NH-I-65-3(113)	430

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

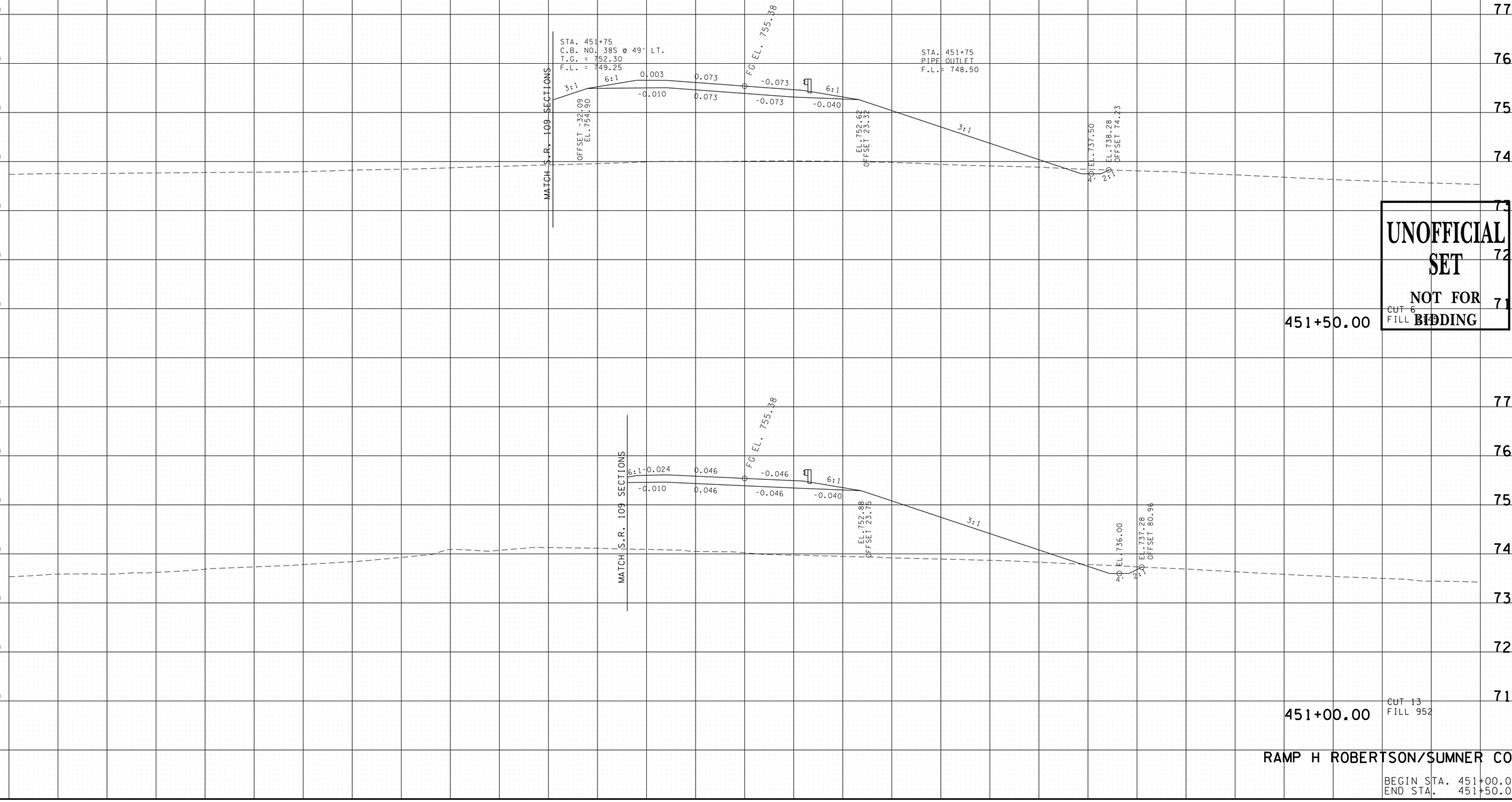
RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 450+00.00
END STA. 450+50.00

9/22/2014 10:21:29 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	377
CONST.	2014	STP/HPP/NH-I-65-3(113)	431

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 451+00.00
END STA. 451+50.00

9/22/2014 10:21:30 PM
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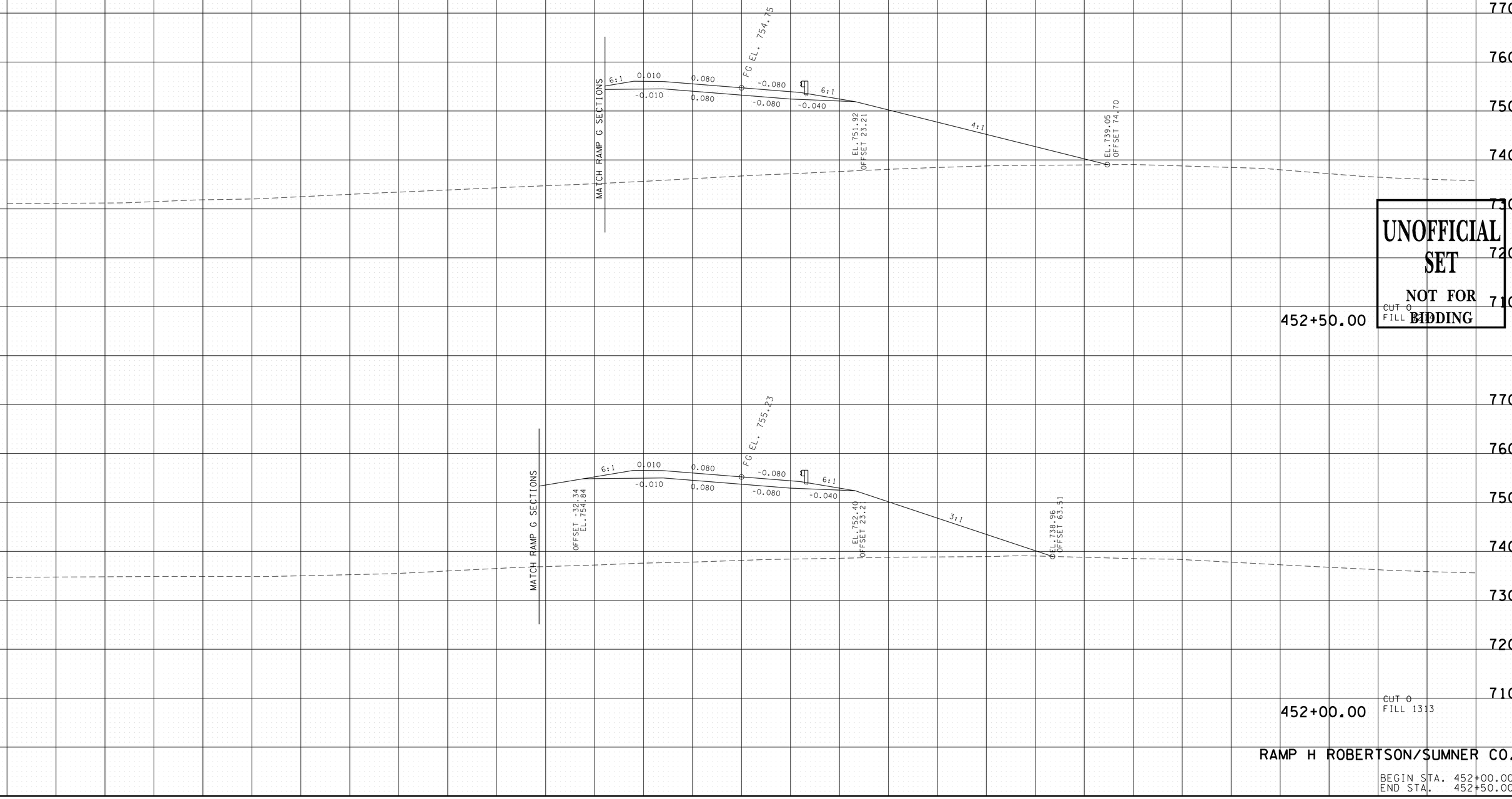
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	378
CONST.	2014	STP/HPP/NH-I-65-3(113)	432

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

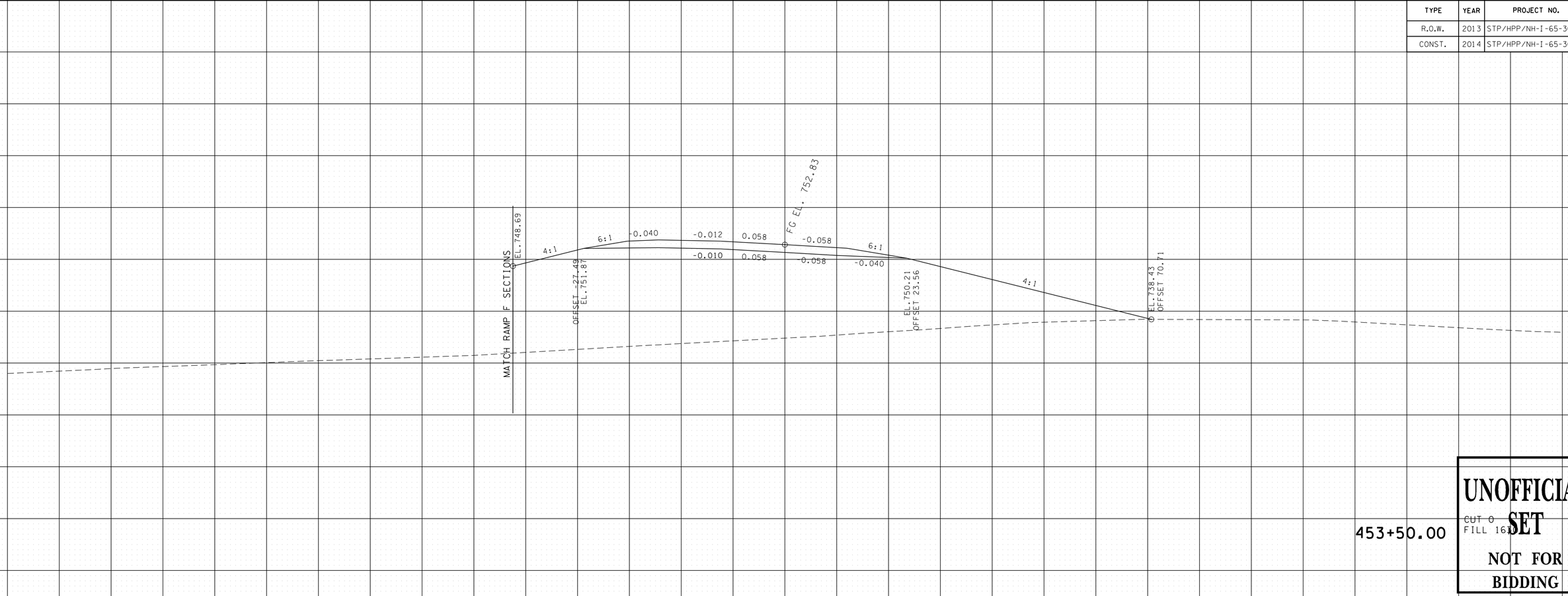
RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 452+00.00
END STA. 452+50.00

9/22/2014 10:21:31 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	379
CONST.	2014	STP/HPP/NH-I-65-3(113)	433

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



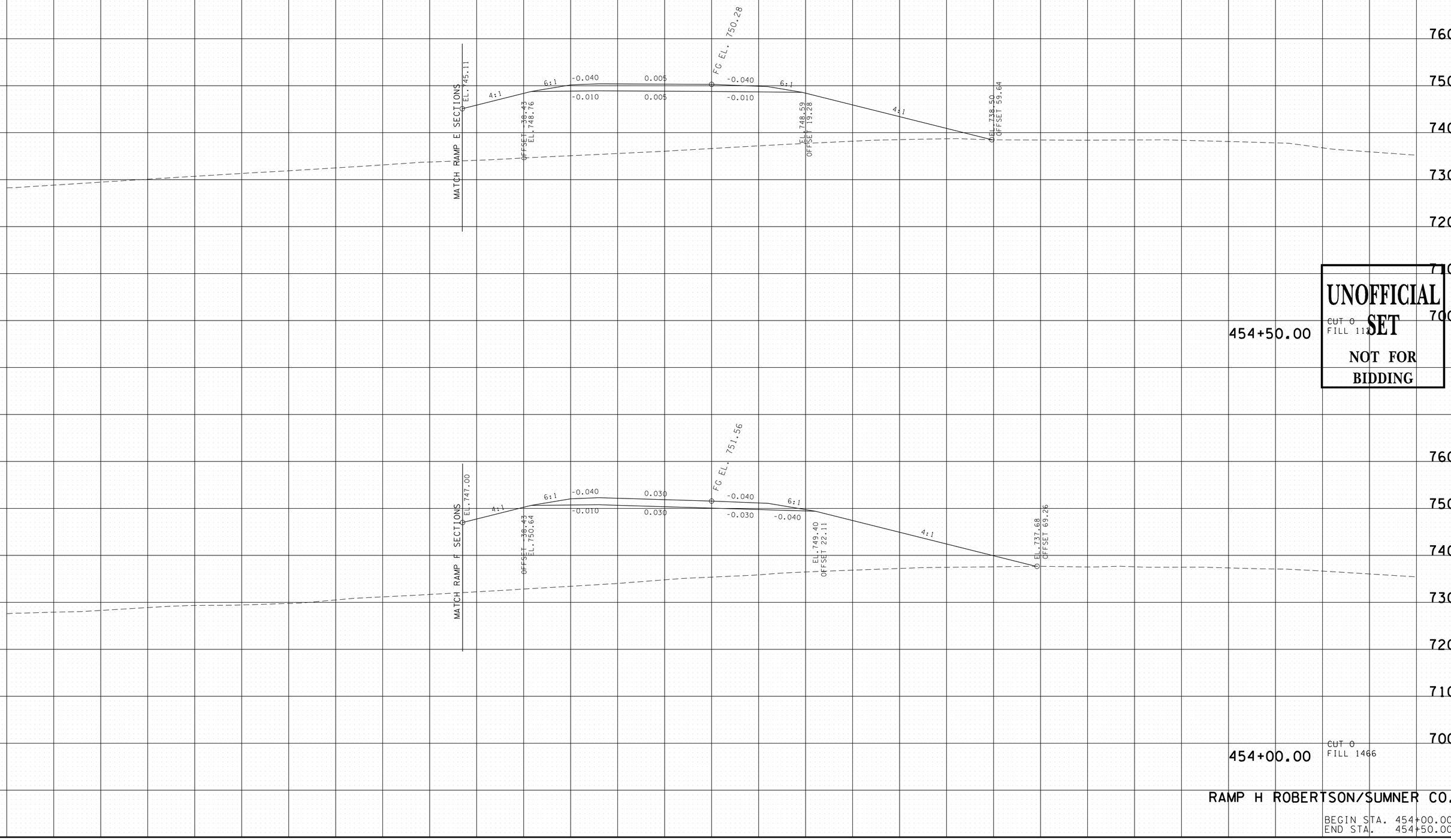
RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 453+00.00
END STA. 453+50.00

9/22/2014 10:21:33 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	380
CONST.	2014	STP/HPP/NH-I-65-3(113)	434

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

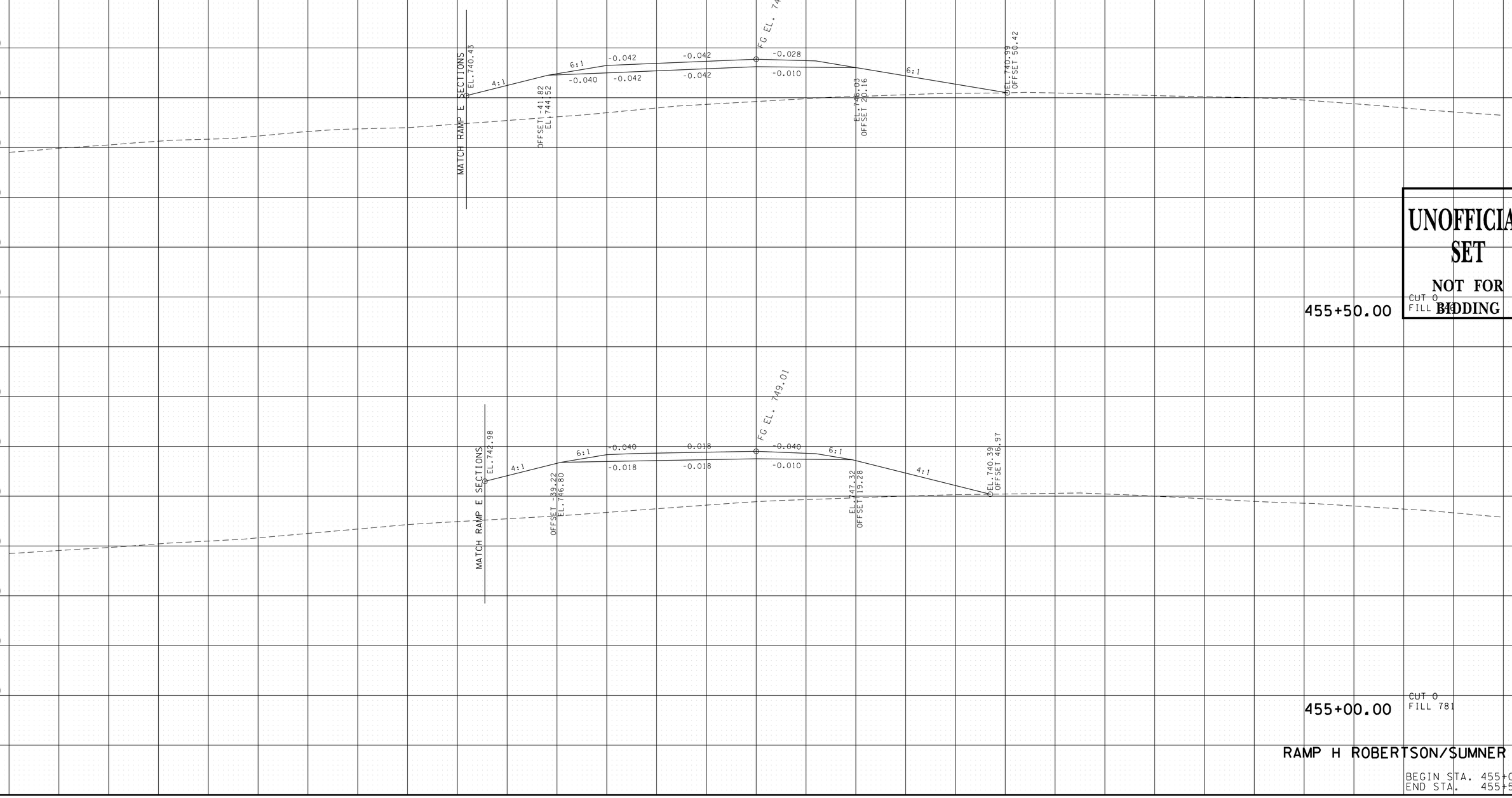
BEGIN STA. 454+00.00
END STA. 454+50.00

9/22/2014 10:21:34 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	381
CONST.	2014	STP/HPP/NH-I-65-3(113)	435

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

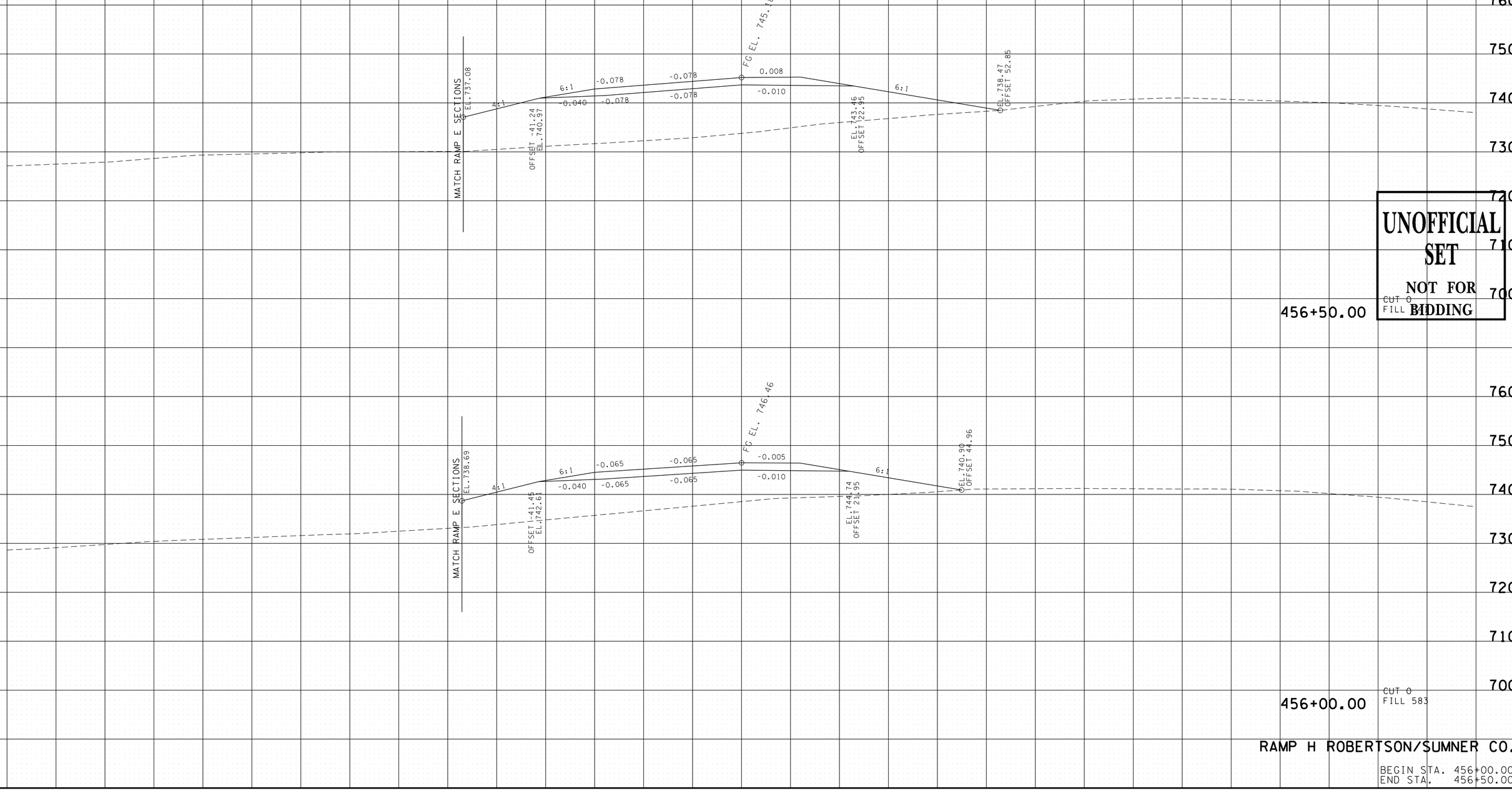
RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 455+00.00
END STA. 455+50.00

9/22/2014 10:21:35 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	382
CONST.	2014	STP/HPP/NH-I-65-3(113)	436

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



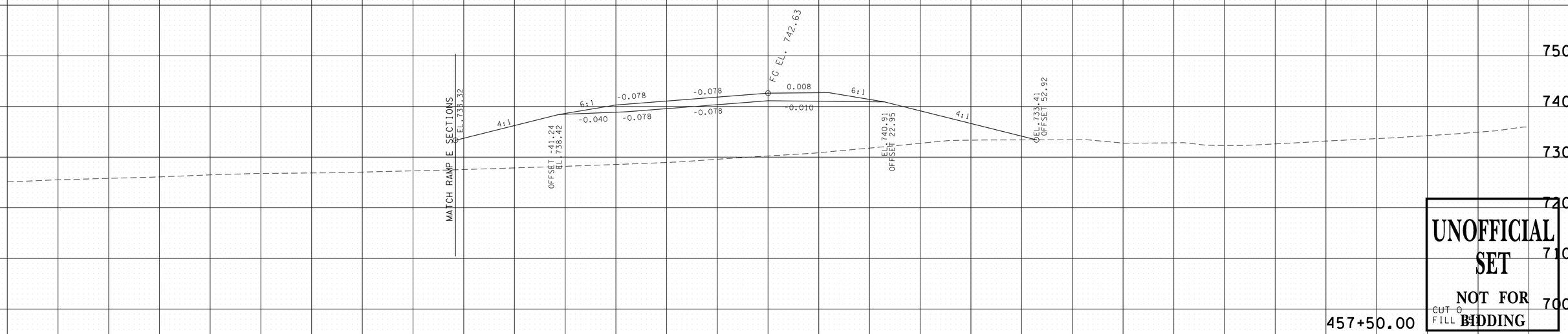
RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 456+00.00
END STA. 456+50.00

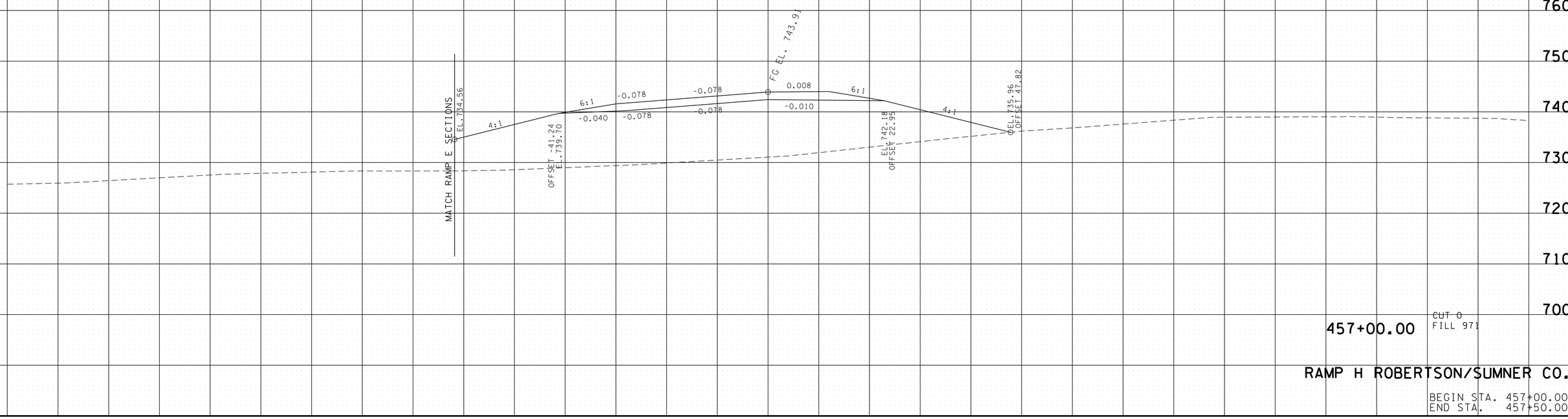
9/22/2014 10:21:36 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	383
CONST.	2014	STP/HPP/NH-I-65-3(113)	437

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 457+00.00
END STA. 457+50.00

9/22/2014 10:21:37 PM
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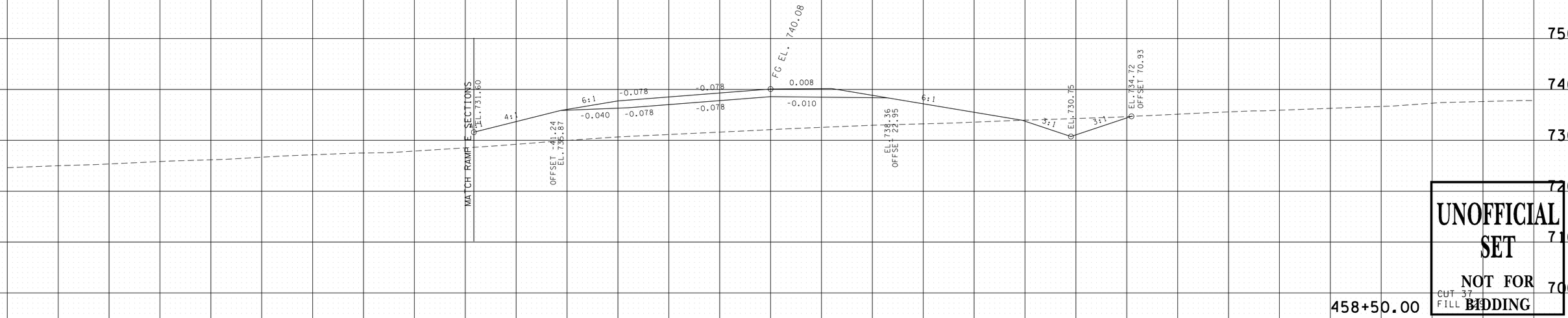
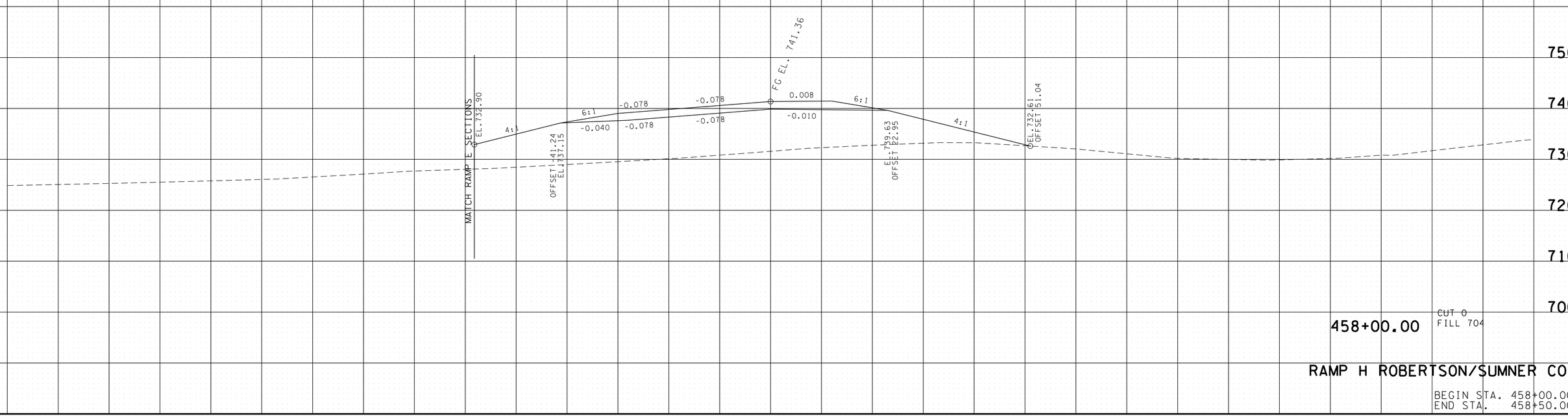
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	384
CONST.	2014	STP/HPP/NH-I-65-3(113)	438

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 458+00.00
END STA. 458+50.00

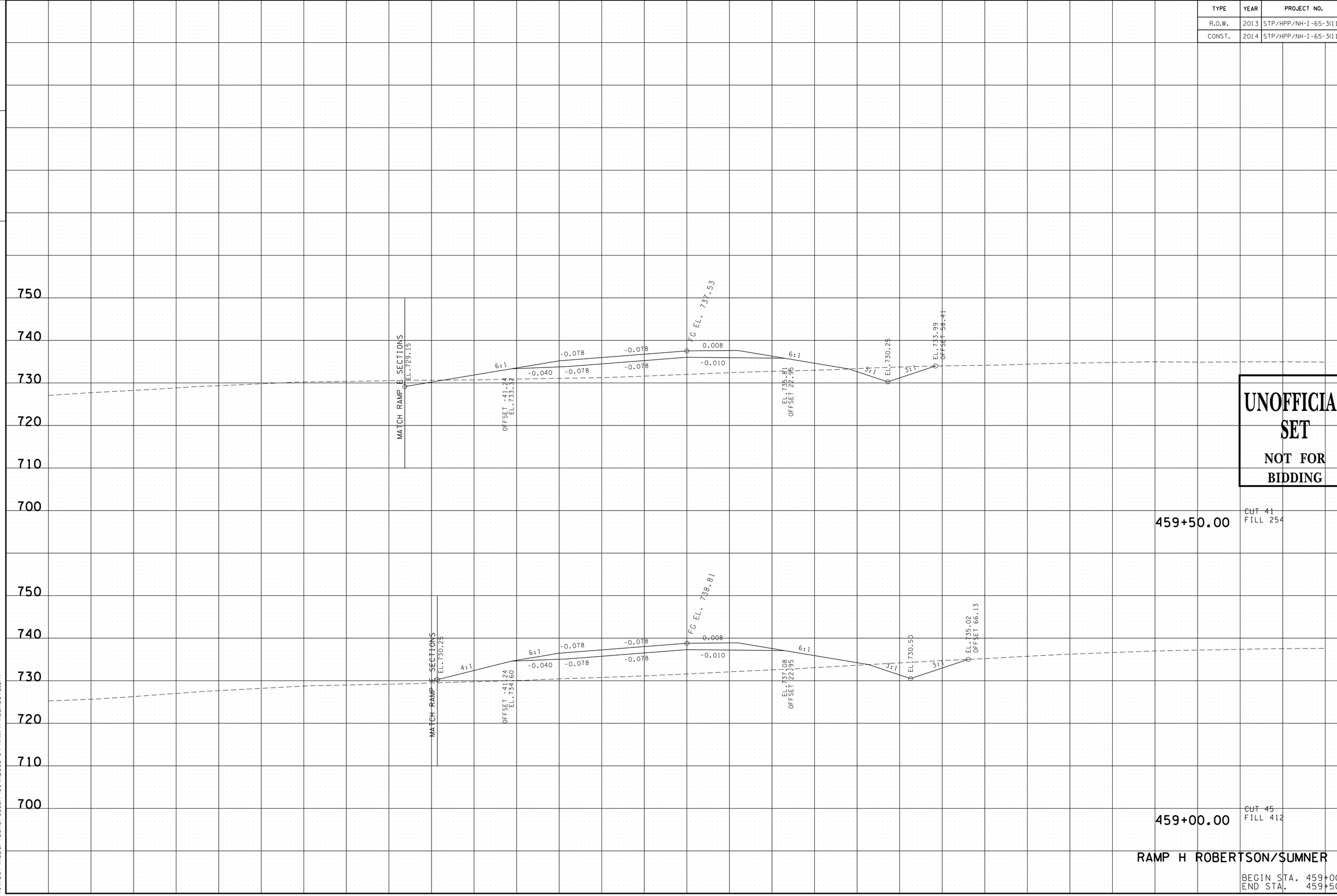
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:21:39 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	385
CONST.	2014	STP/HPP/NH-I-65-3(113)	439

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

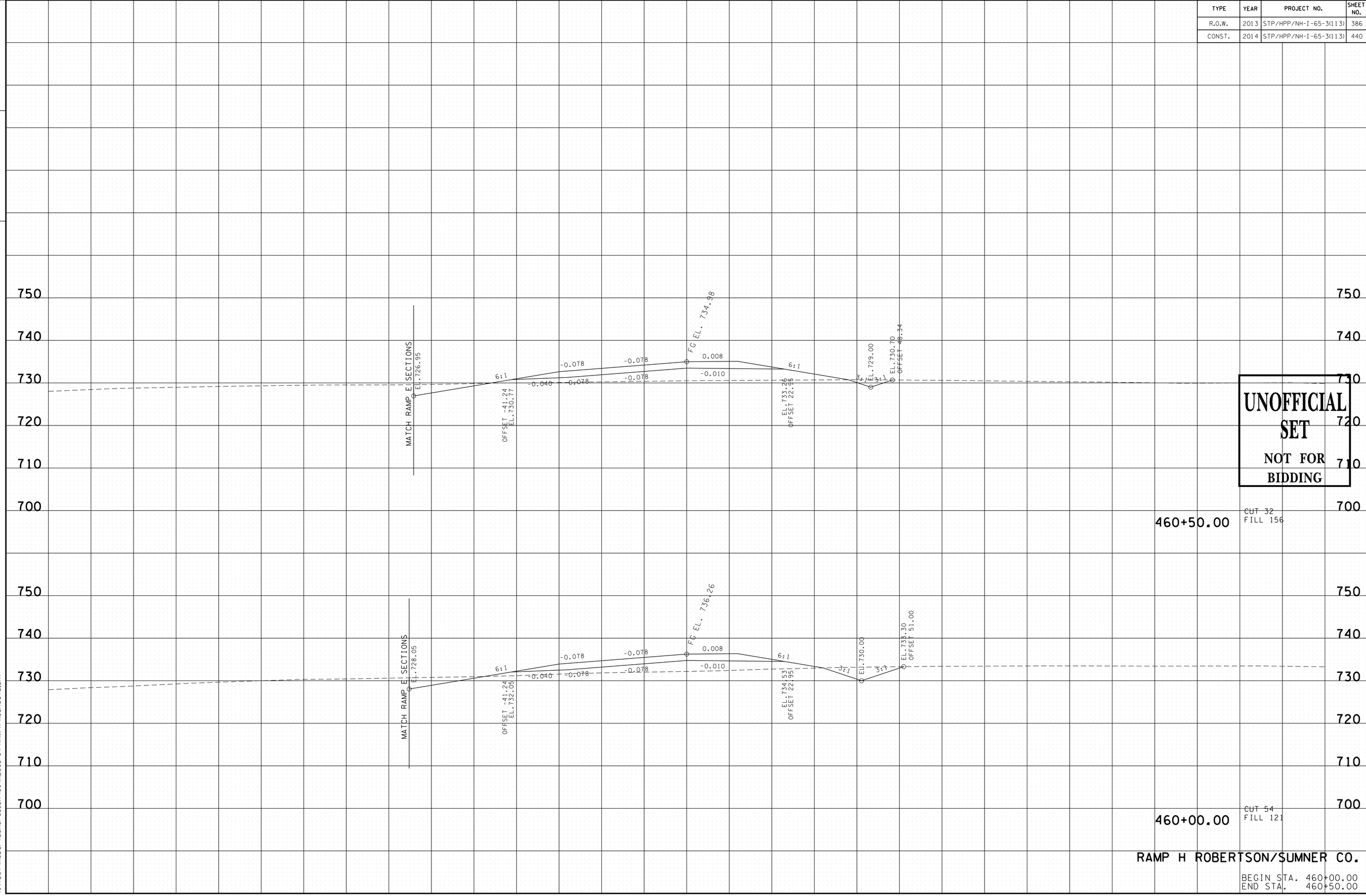
BEGIN STA. 459+00.00
END STA. 459+50.00

9/22/2014 10:21:40 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	386
CONST.	2014	STP/HPP/NH-I-65-3(113)	440

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

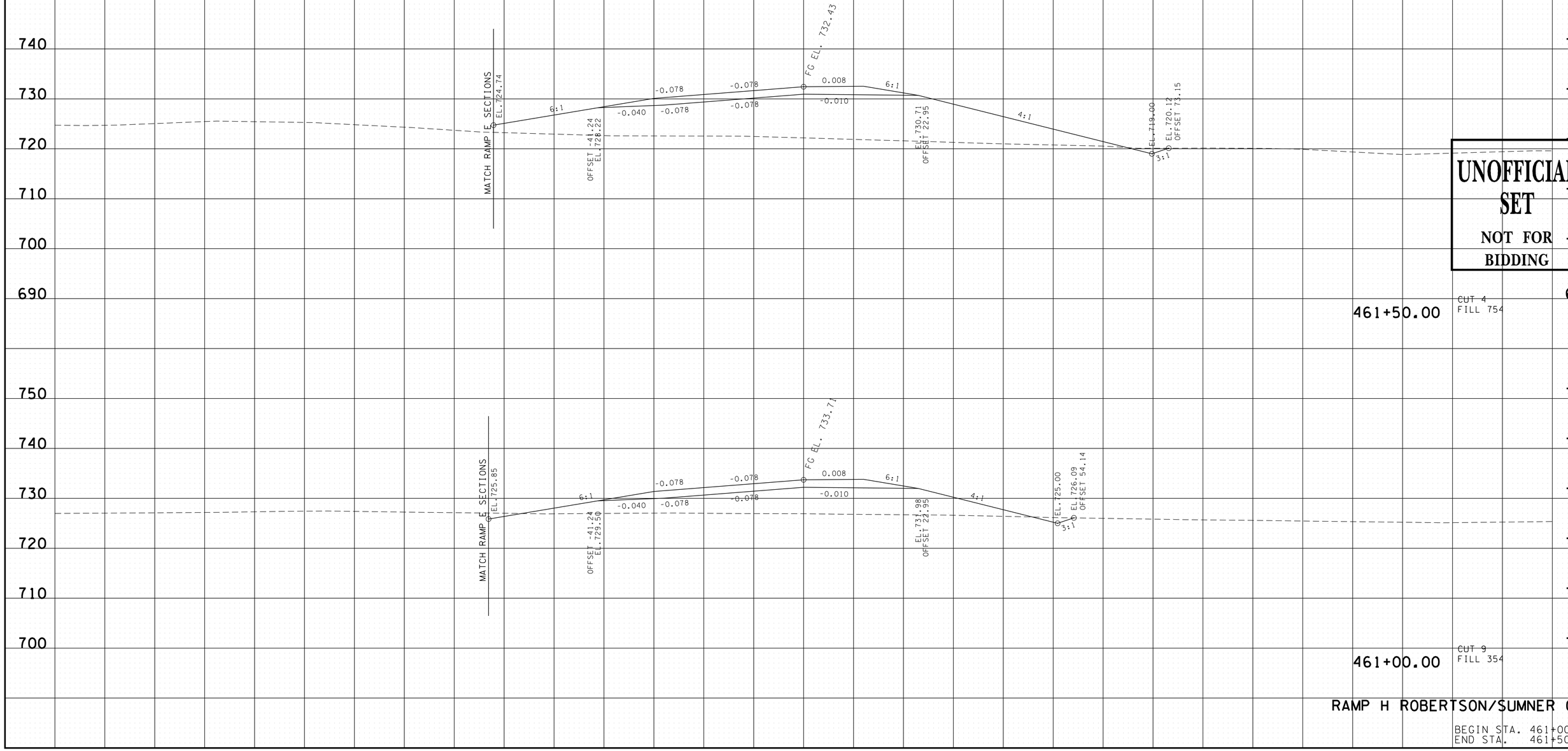
BEGIN STA. 460+00.00
END STA. 460+50.00

9/22/2014 10:21:41 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	387
CONST.	2014	STP/HPP/NH-I-65-3(113)	441

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

461+50.00
CUT 4
FILL 754

461+00.00
CUT 9
FILL 354

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 461+00.00
END STA. 461+50.00

9/22/2014 10:21:42 PM
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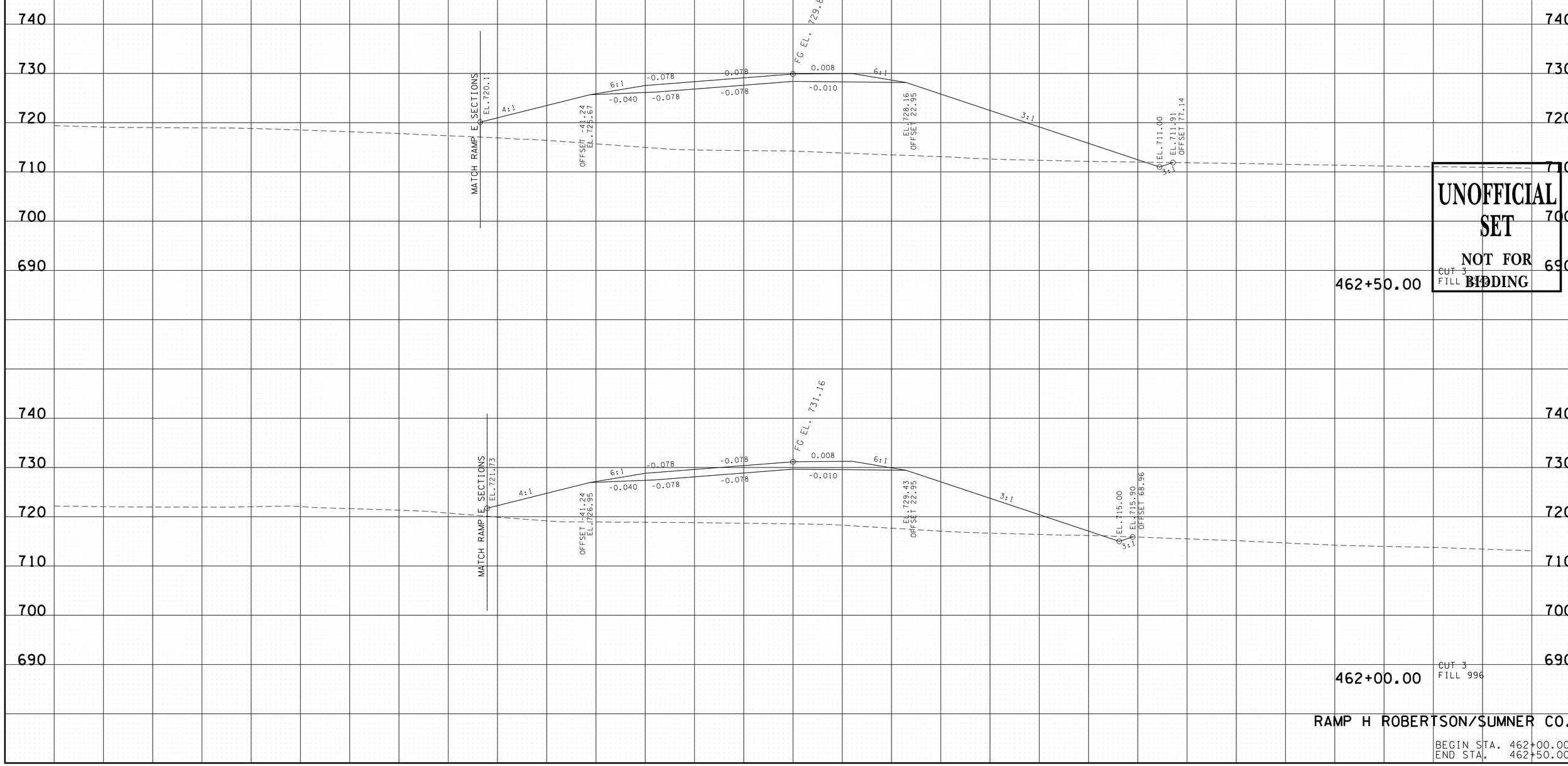
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	388
CONST.	2014	STP/HPP/NH-I-65-3(113)	442

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 462+00.00
END STA. 462+50.00

9/22/2014 10:21:44 PM
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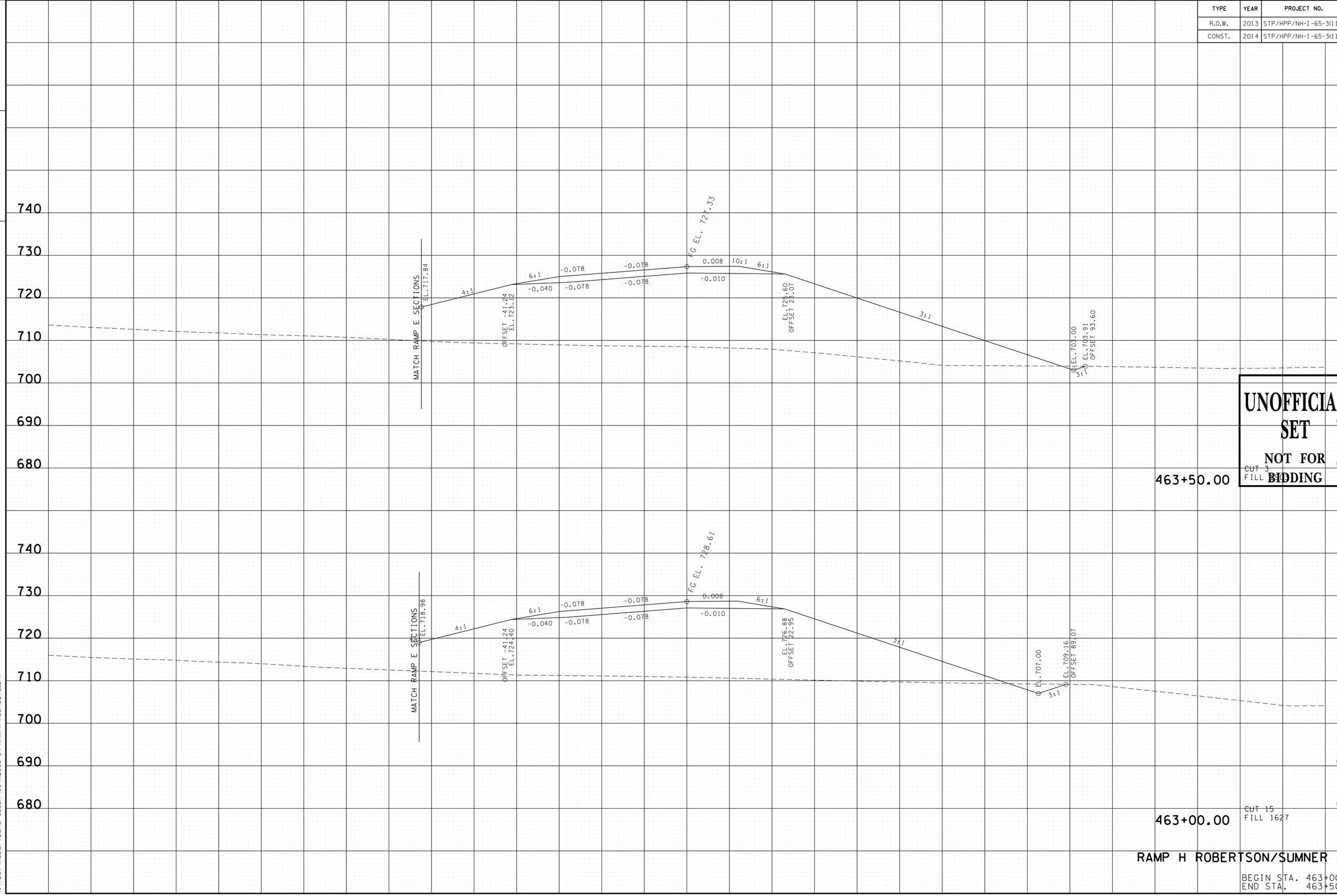
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	389
CONST.	2014	STP/HPP/NH-I-65-3(113)	443

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 463+00.00
END STA. 463+50.00

9/22/2014 10:21:45 PM
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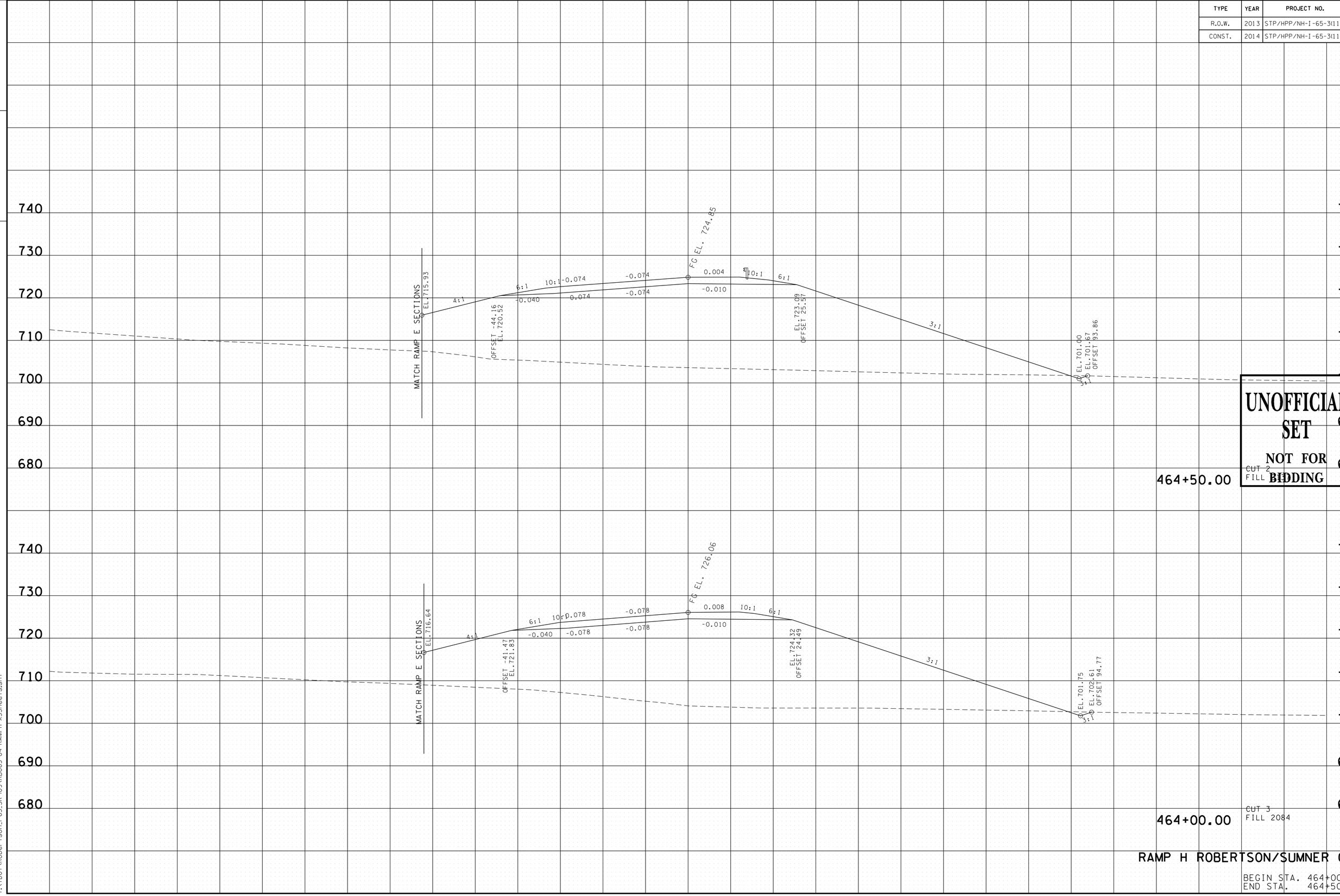
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	390
CONST.	2014	STP/HPP/NH-I-65-3(113)	444

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



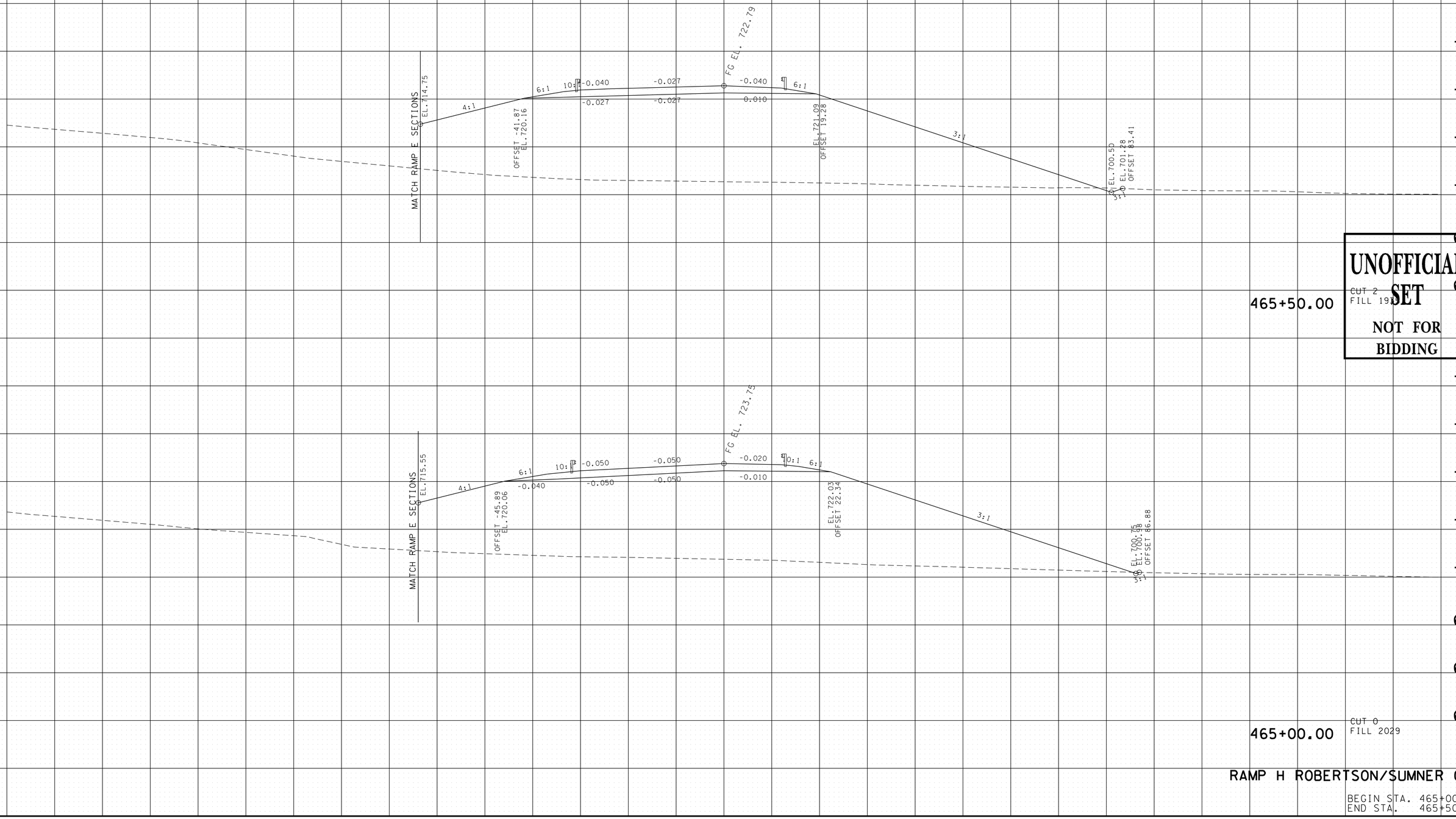
RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 464+00.00
END STA. 464+50.00

9/22/2014 10:21:46 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	391
CONST.	2014	STP/HPP/NH-I-65-3(113)	445

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 465+00.00
END STA. 465+50.00

9/22/2014 10:21:47 PM
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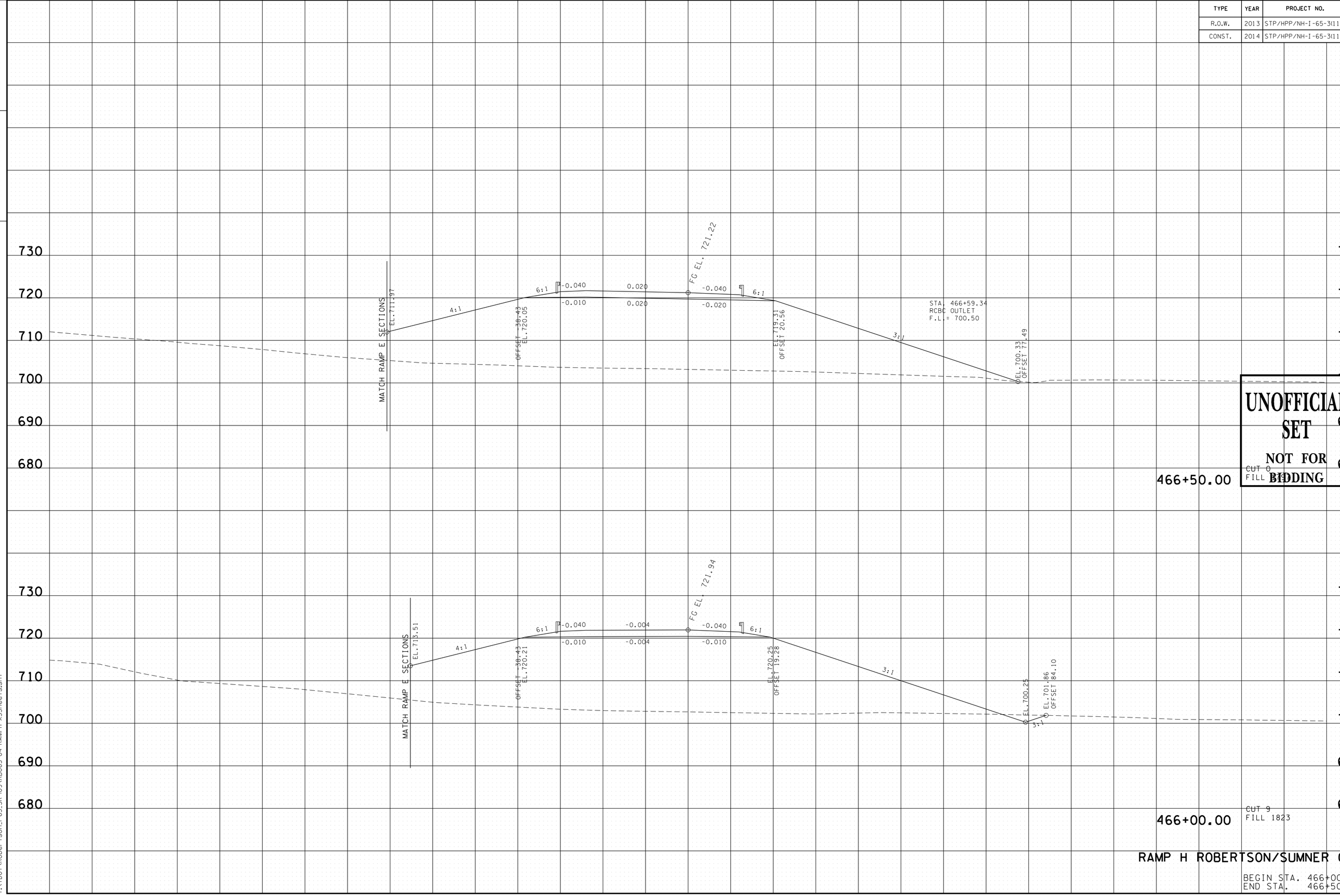
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	392
CONST.	2014	STP/HPP/NH-I-65-3(113)	446

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 466+00.00
END STA. 466+50.00

9/22/2014 10:21:49 PM
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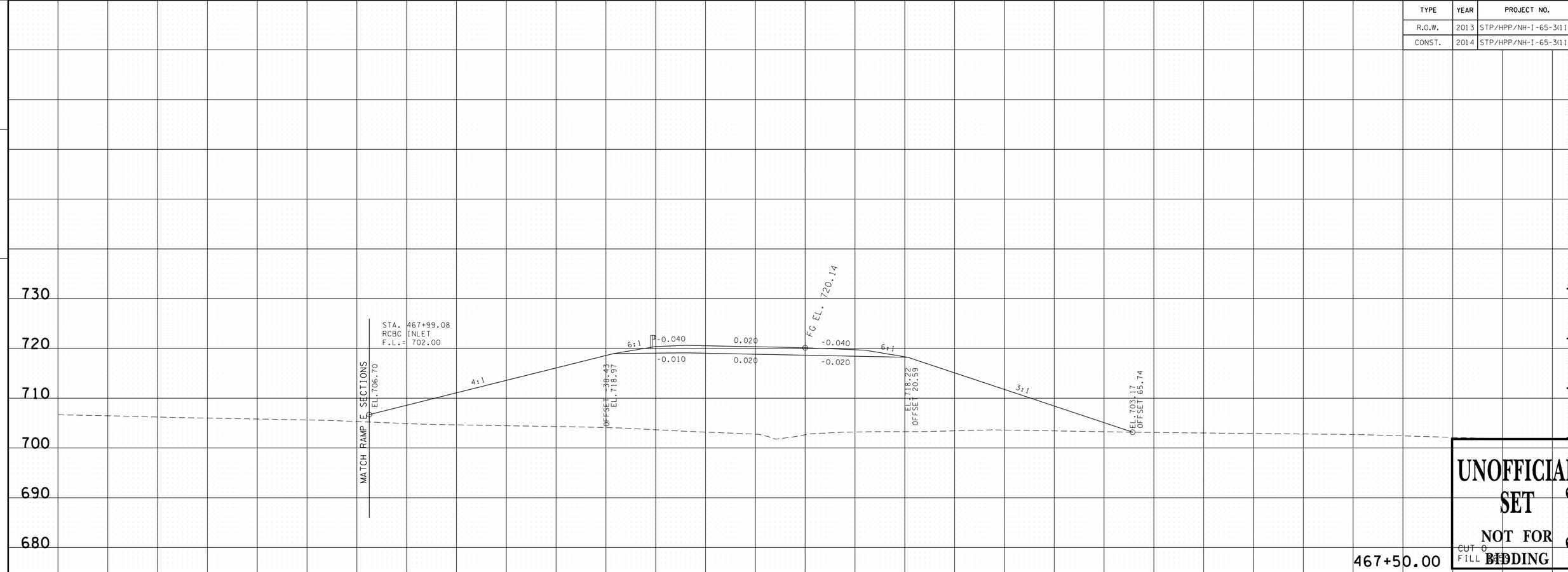
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	393
CONST.	2014	STP/HPP/NH-I-65-3(113)	447

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP H ROBERTSON/SUMNER CO.

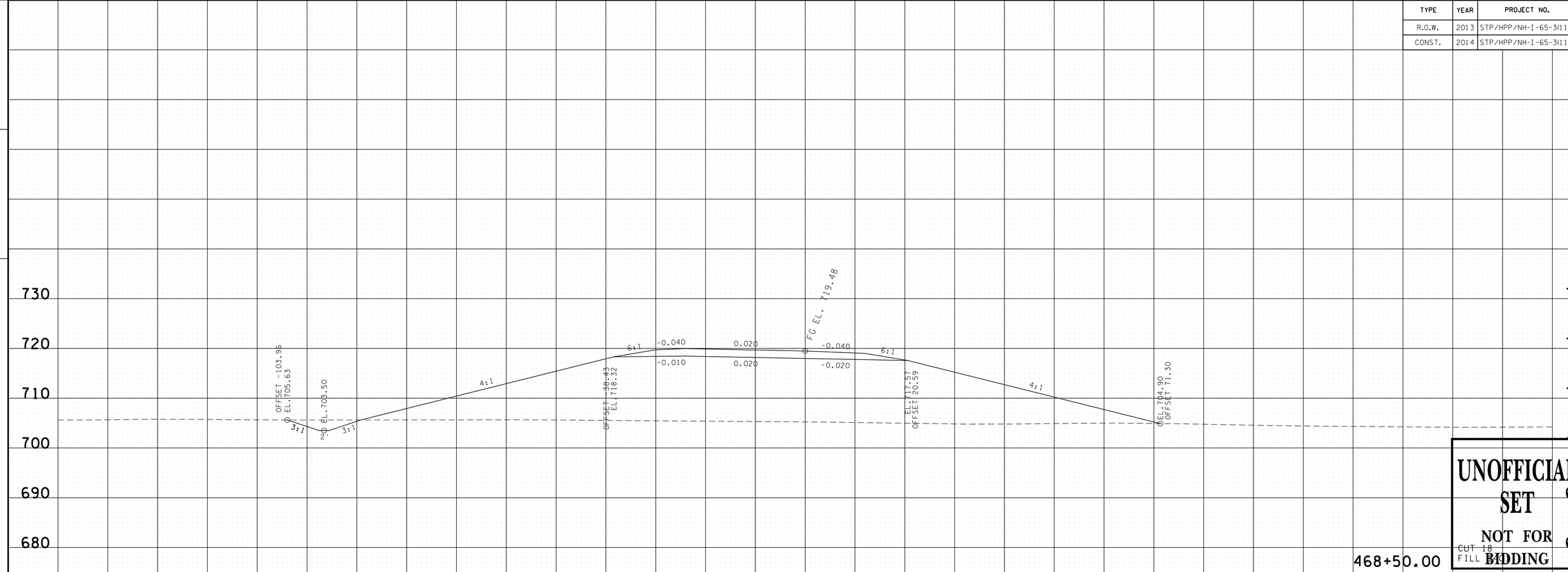
BEGIN STA. 467+00.00
END STA. 467+50.00

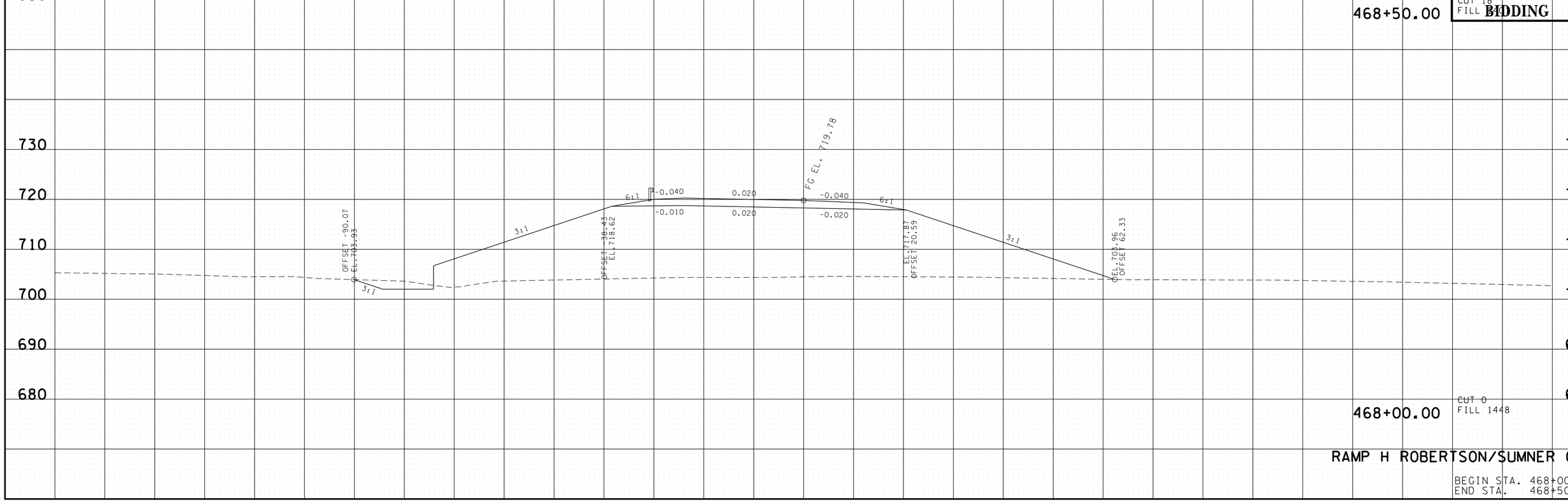
9/22/2014 10:21:50 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	394
CONST.	2014	STP/HPP/NH-I-65-3(113)	448

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 468+00.00
END STA. 468+50.00

9/22/2014 10:21:52 PM
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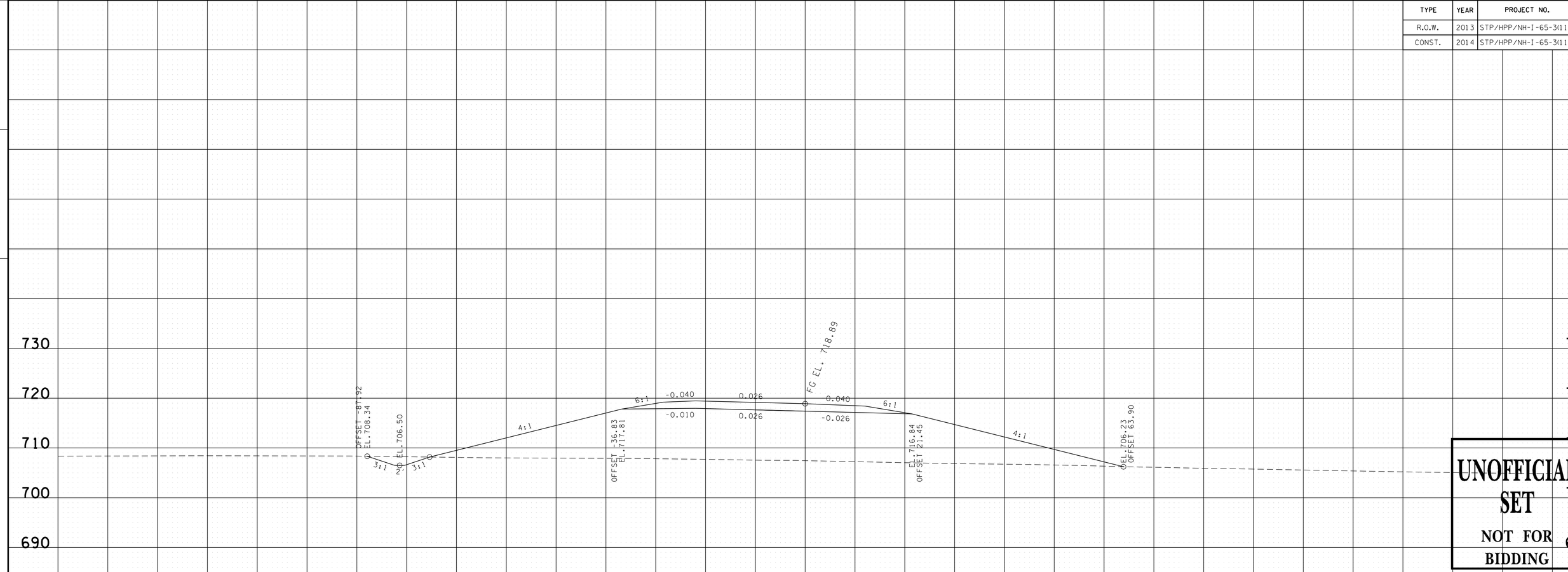
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	395
CONST.	2014	STP/HPP/NH-I-65-3(113)	449

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

469+50.00
CUT 13
FILL 983

469+00.00
CUT 14
FILL 1210

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 469+00.00
END STA. 469+50.00

9/22/2014 10:21:53 PM
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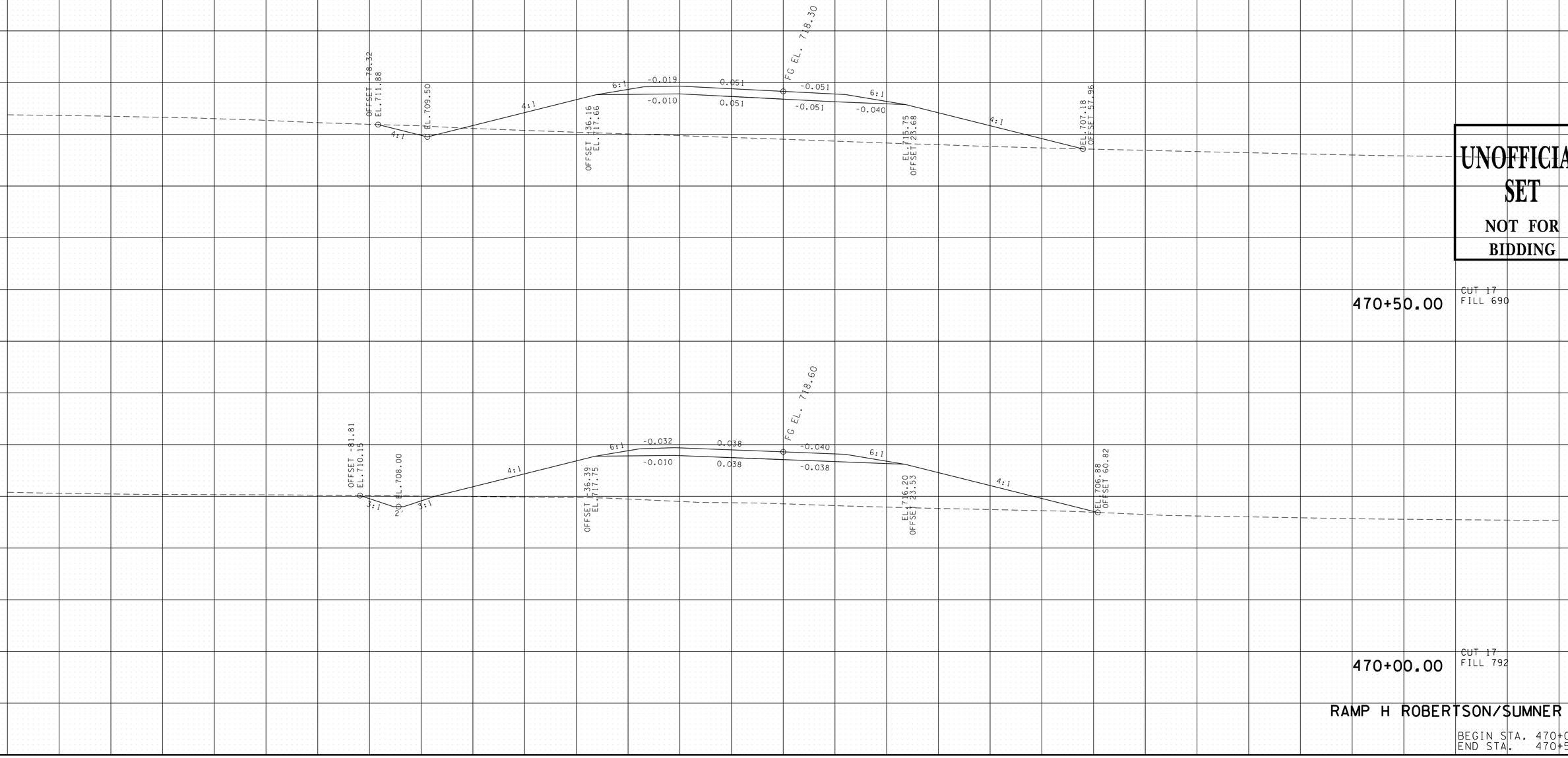
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	396
CONST.	2014	STP/HPP/NH-I-65-3(113)	450

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 470+00.00
END STA. 470+50.00

9/22/2014 10:21:54 PM
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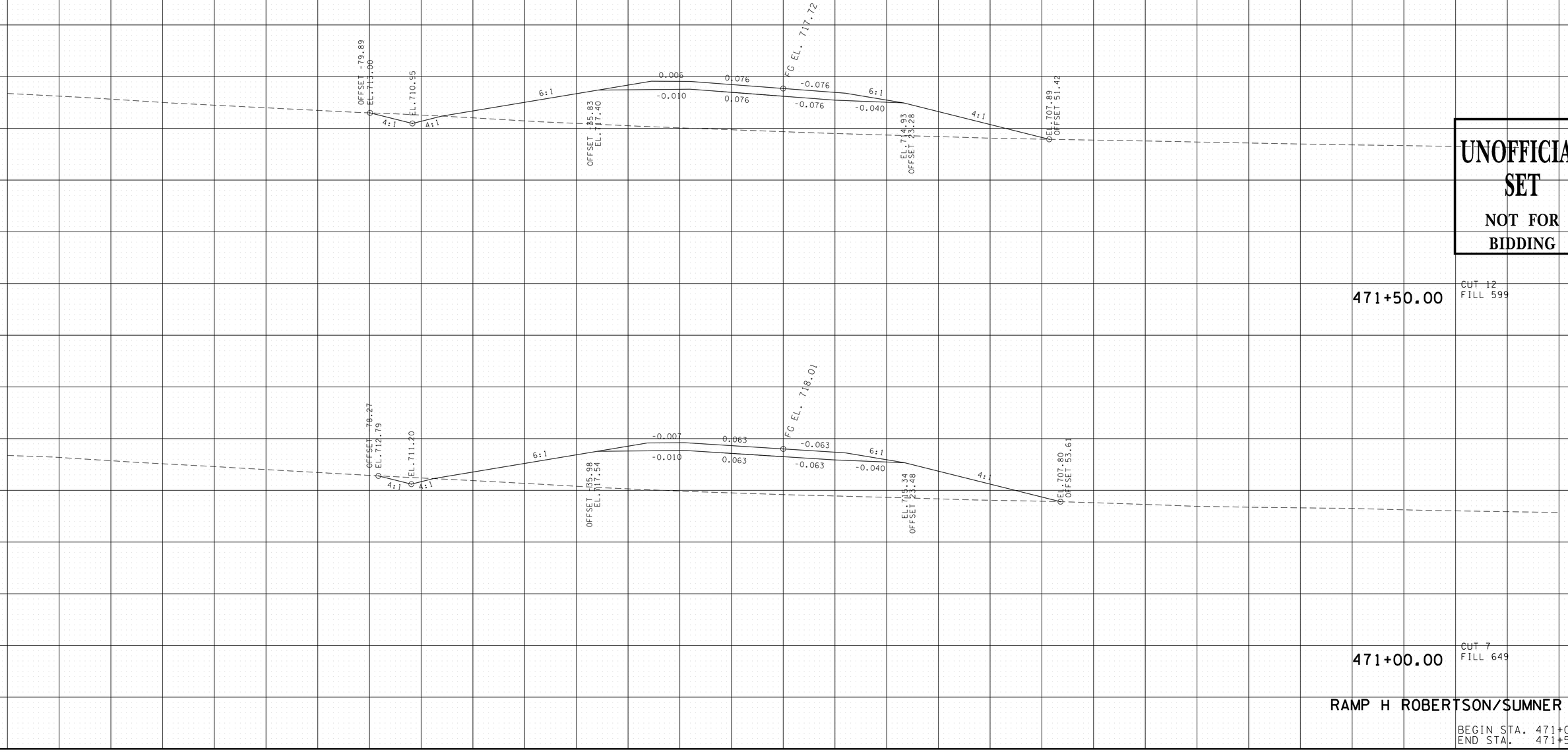
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	397
CONST.	2014	STP/HPP/NH-I-65-3(113)	451

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

CUT 12
FILL 599
471+50.00

CUT 7
FILL 649
471+00.00

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 471+00.00
END STA. 471+50.00

9/22/2014 10:21:56 PM
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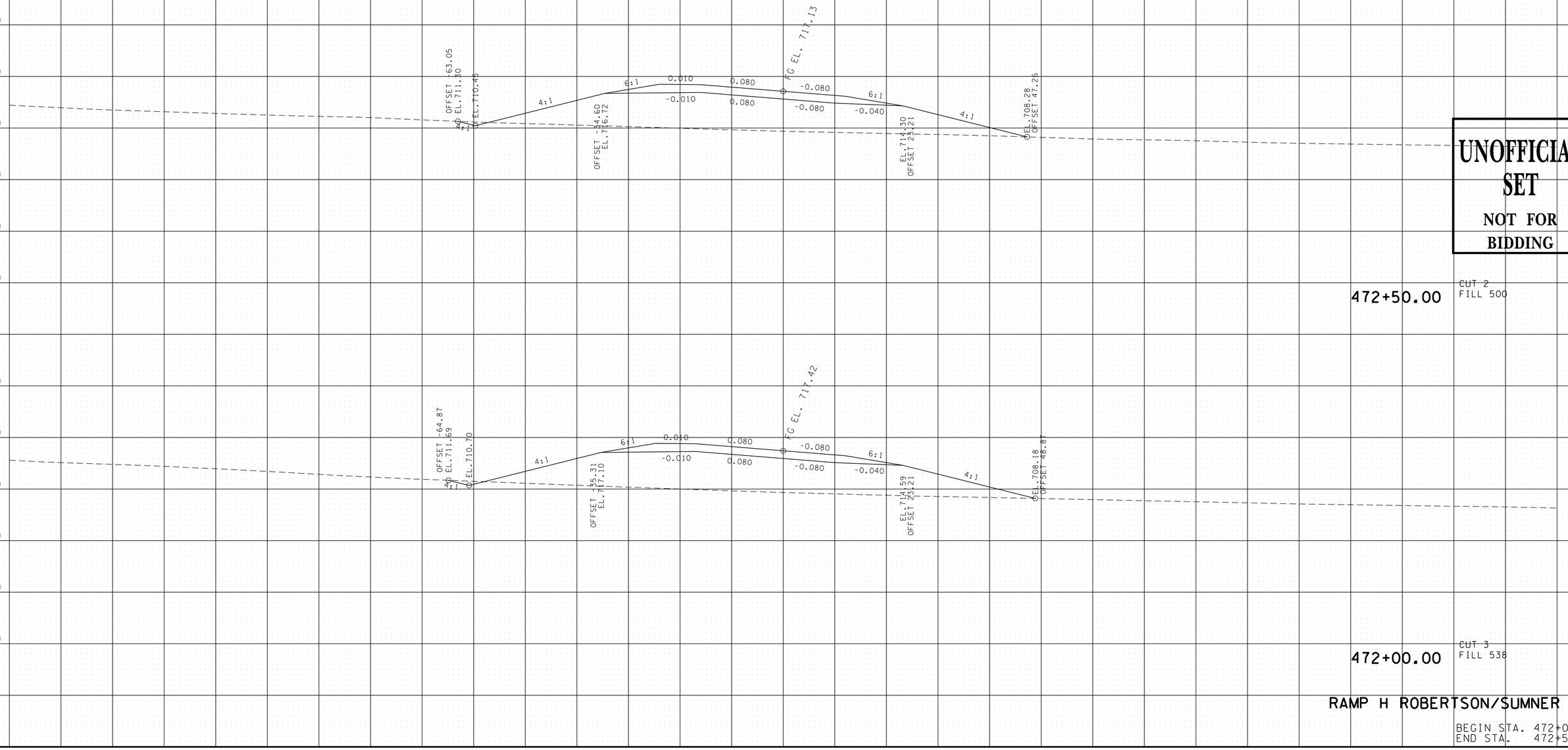
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	398
CONST.	2014	STP/HPP/NH-I-65-3(113)	452

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 472+00.00
END STA. 472+50.00

9/22/2014 10:21:57 PM
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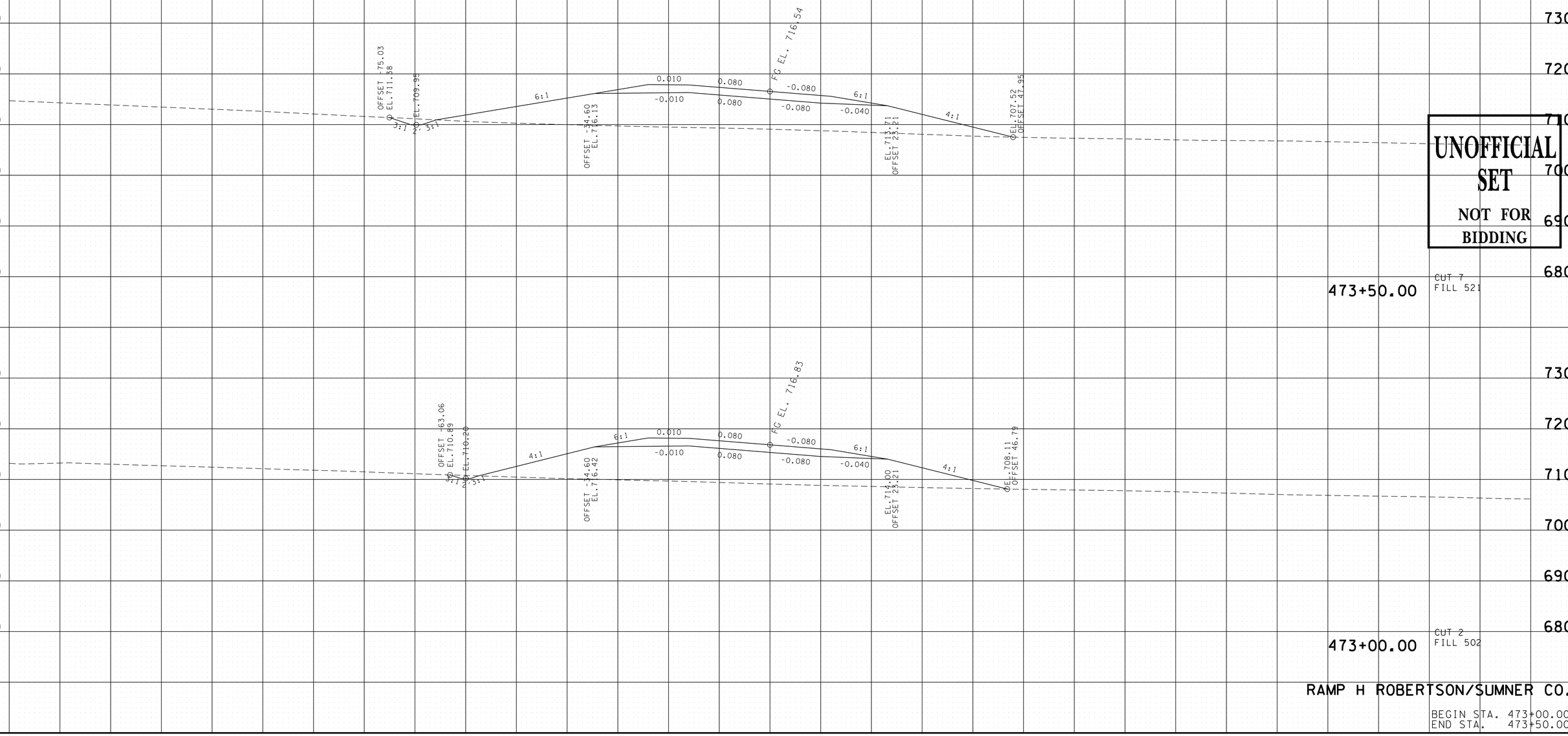
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	399
CONST.	2014	STP/HPP/NH-I-65-3(113)	453

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

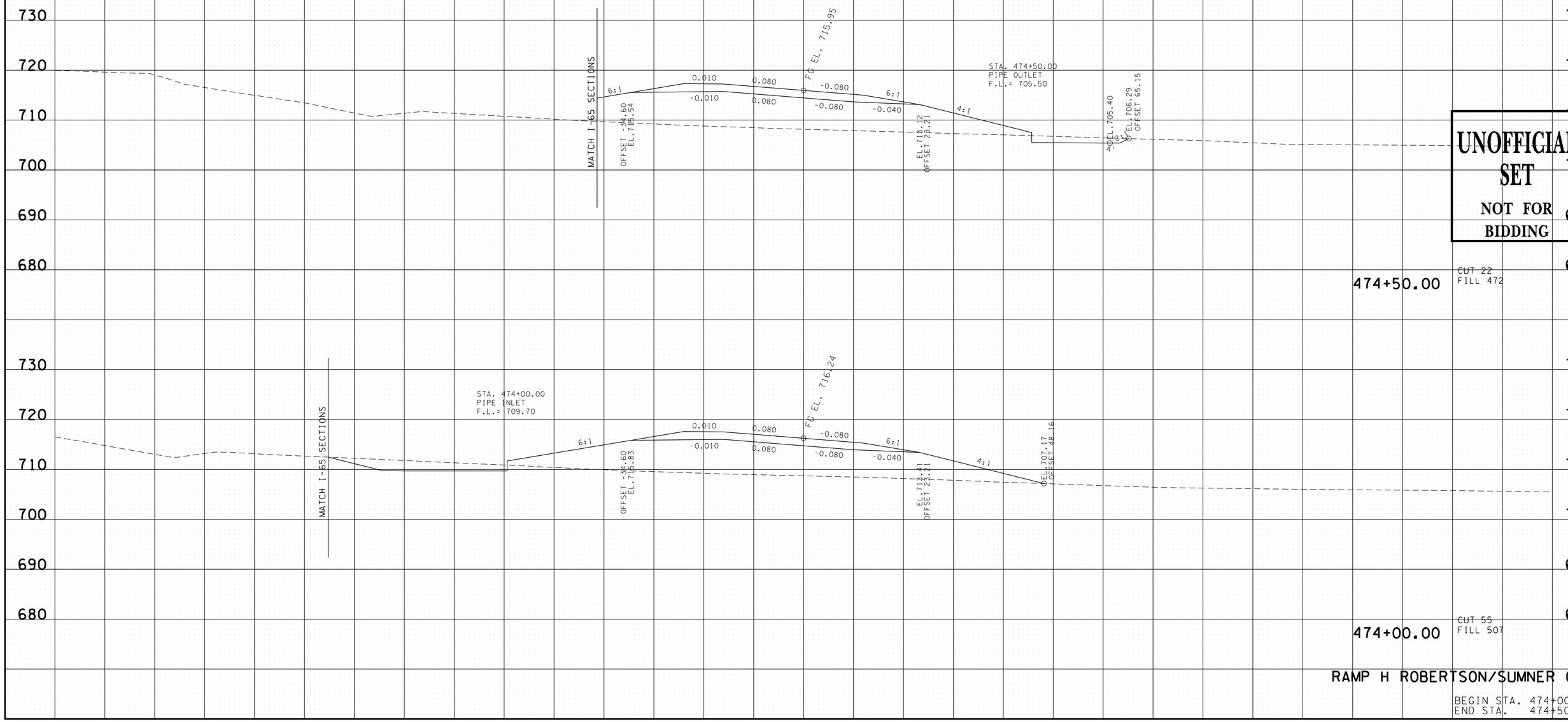
BEGIN STA. 473+00.00
END STA. 473+50.00

9/22/2014 10:21:58 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	400
CONST.	2014	STP/HPP/NH-I-65-3(113)	454

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

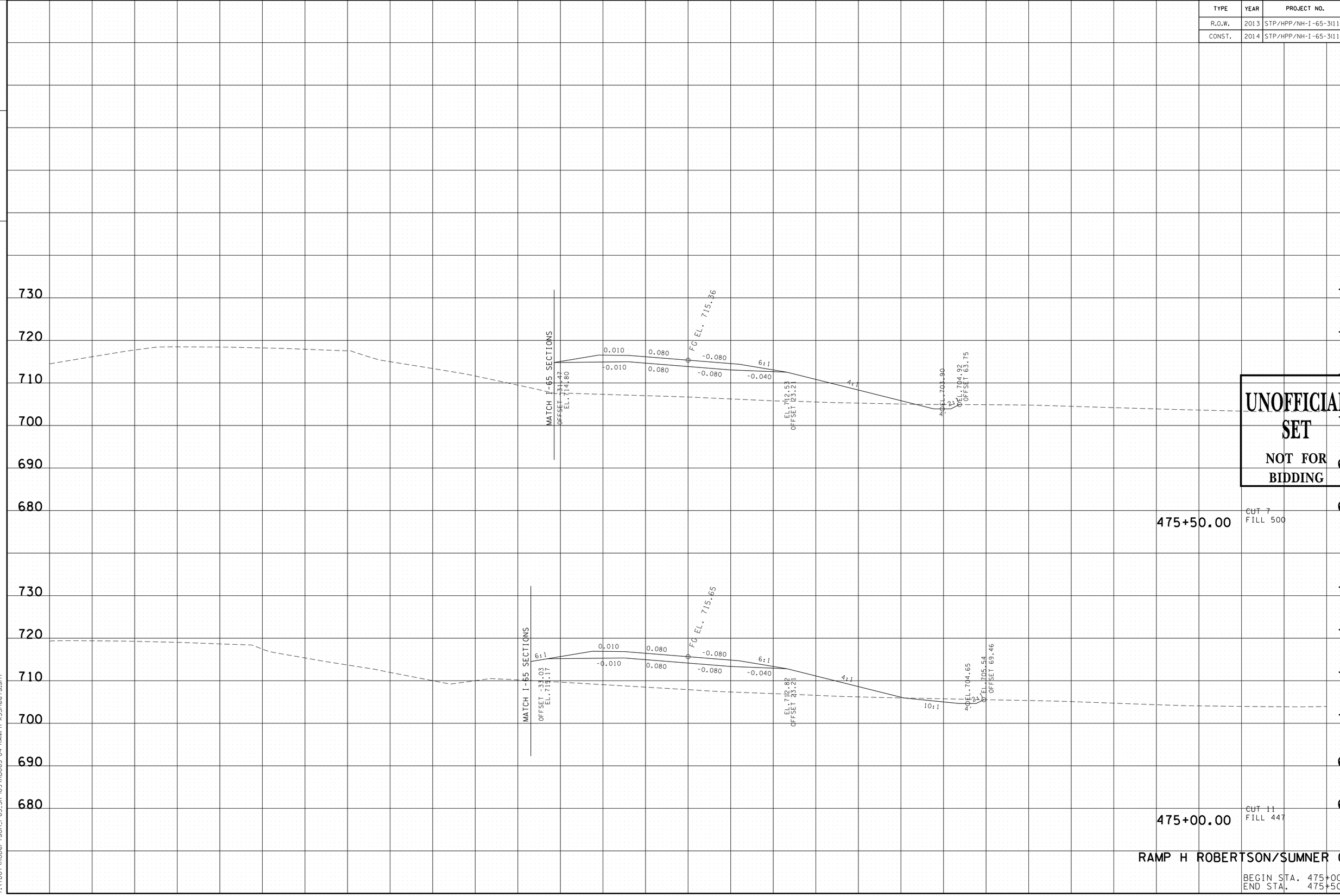
BEGIN STA. 474+00.00
END STA. 474+50.00

9/22/2014 10:22:00 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPH-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	401
CONST.	2014	STP/HPP/NH-I-65-3(113)	455



UNOFFICIAL SET
NOT FOR BIDDING

475+50.00
CUT 7
FILL 500

475+00.00
CUT 11
FILL 447

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 475+00.00
END STA. 475+50.00

9/22/2014 10:22:01 PM
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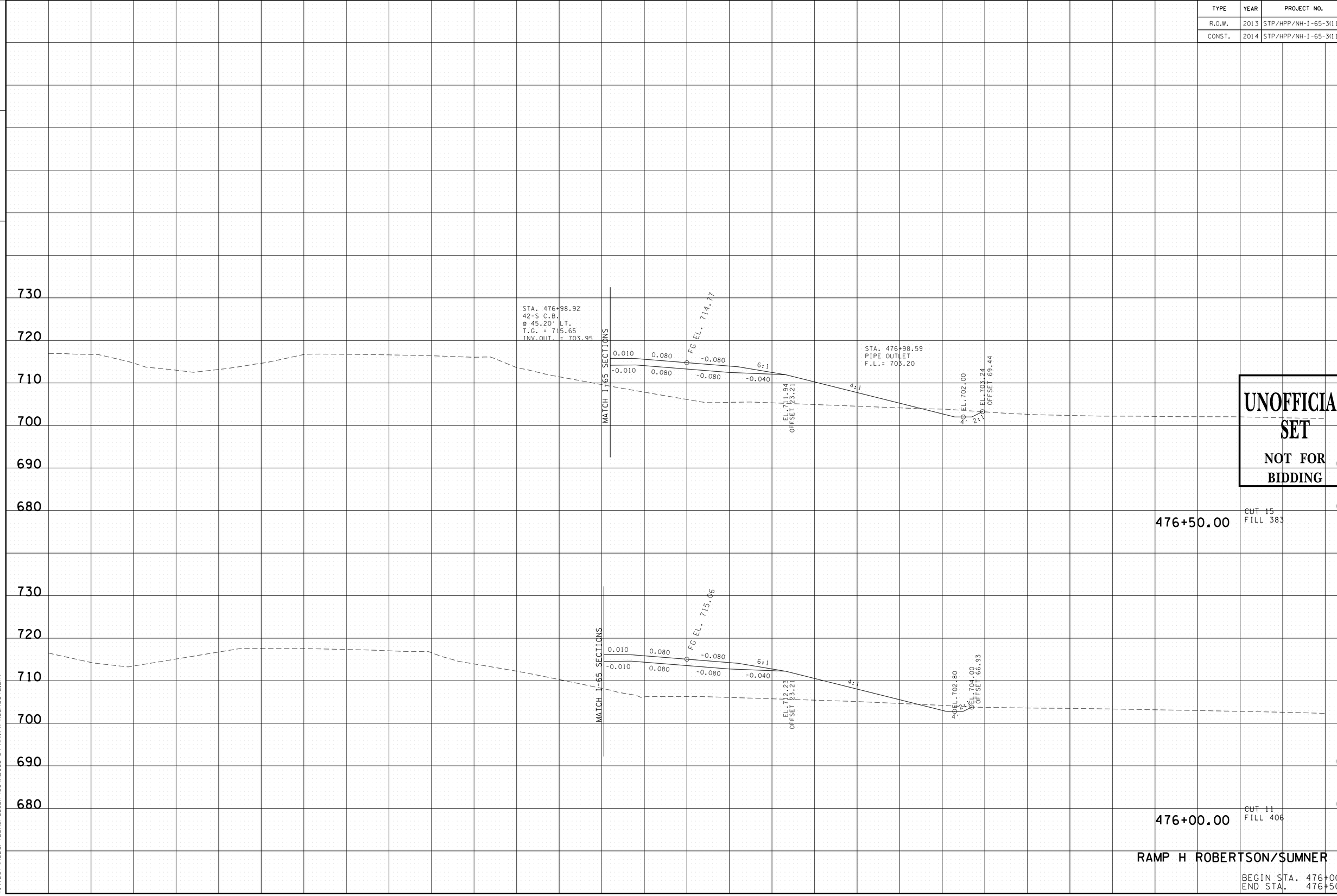
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	402
CONST.	2014	STP/HPP/NH-I-65-3(113)	456

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP H ROBERTSON/SUMNER CO.

BEGIN STA. 476+00.00
END STA. 476+50.00

9/22/2014 10:22:03 PM
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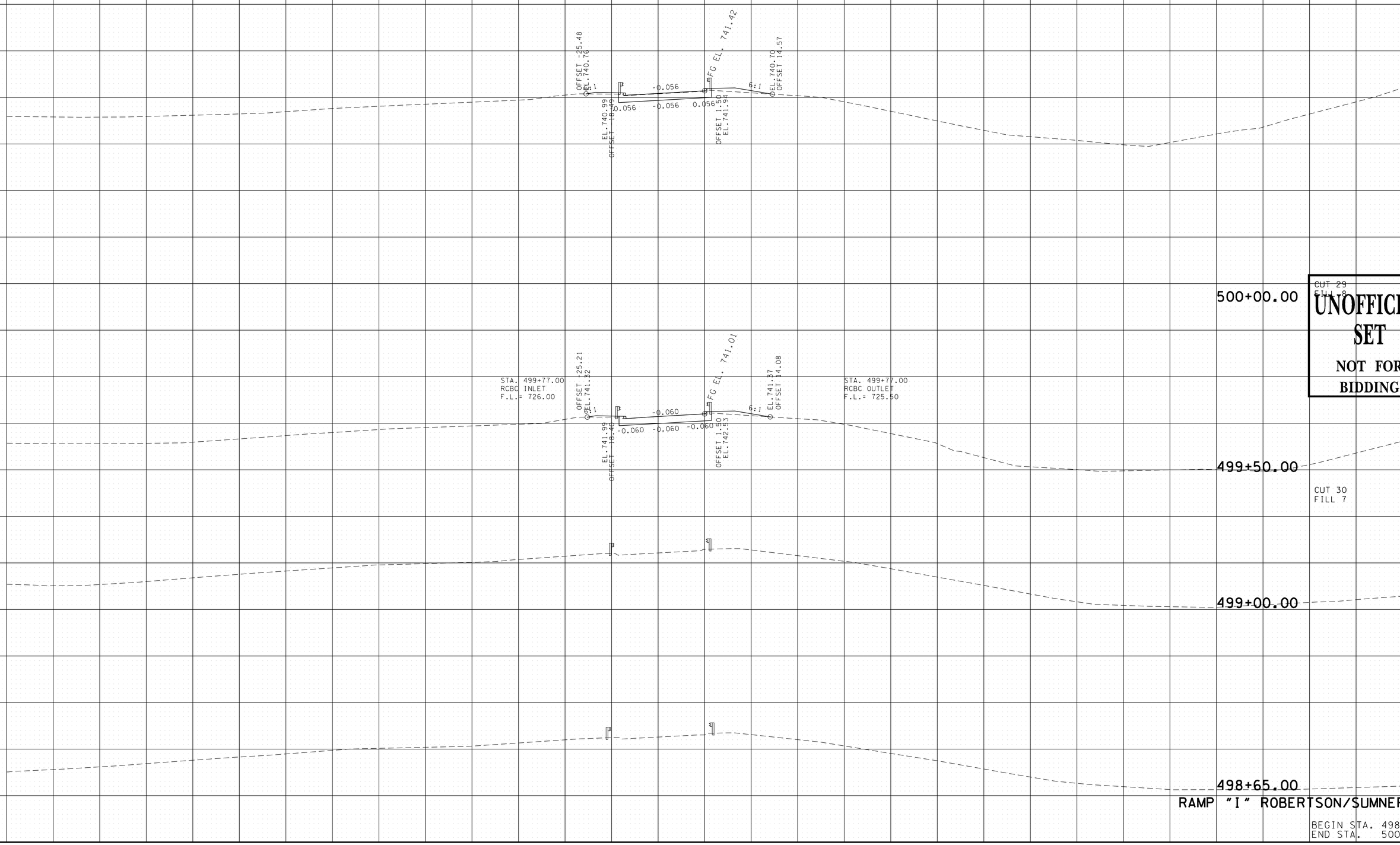
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	403
CONST.	2014	STP/HPP/NH-I-65-3(113)	457

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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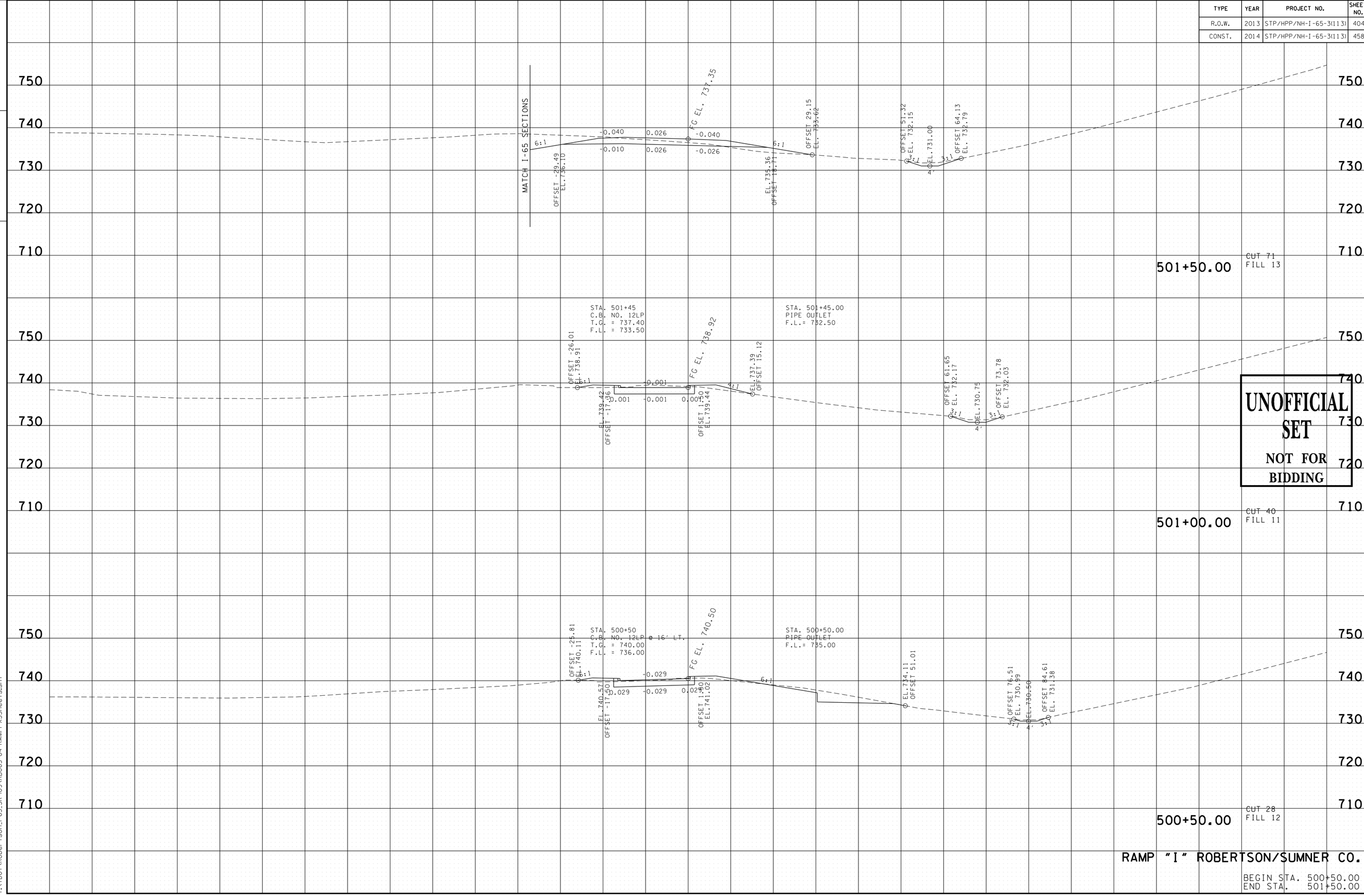
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	404
CONST.	2014	STP/HPP/NH-I-65-3(113)	458

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP "I" ROBERTSON/SUMNER CO.

BEGIN STA. 500+50.00
END STA. 501+50.00

9/22/2014 10:23:20 PM
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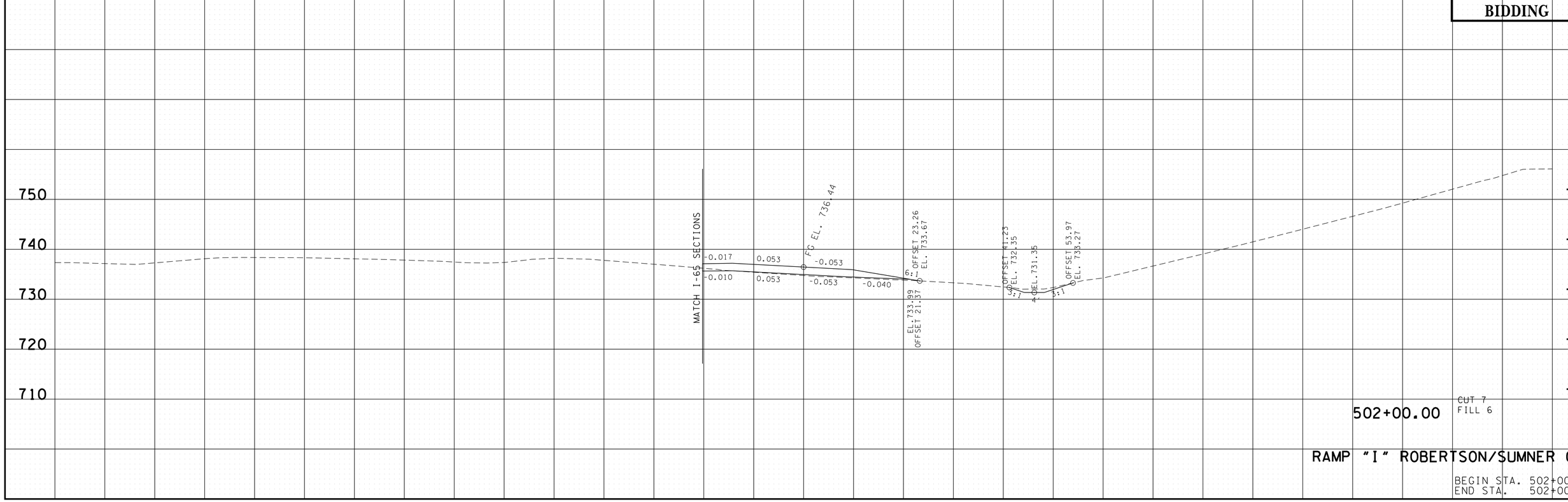
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	405
CONST.	2014	STP/HPP/NH-I-65-3(113)	459

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

UNOFFICIAL SET
NOT FOR BIDDING



RAMP "I" ROBERTSON/SUMNER CO.

BEGIN STA. 502+00.00
END STA. 502+00.00

9/22/2014 10:23:21 PM
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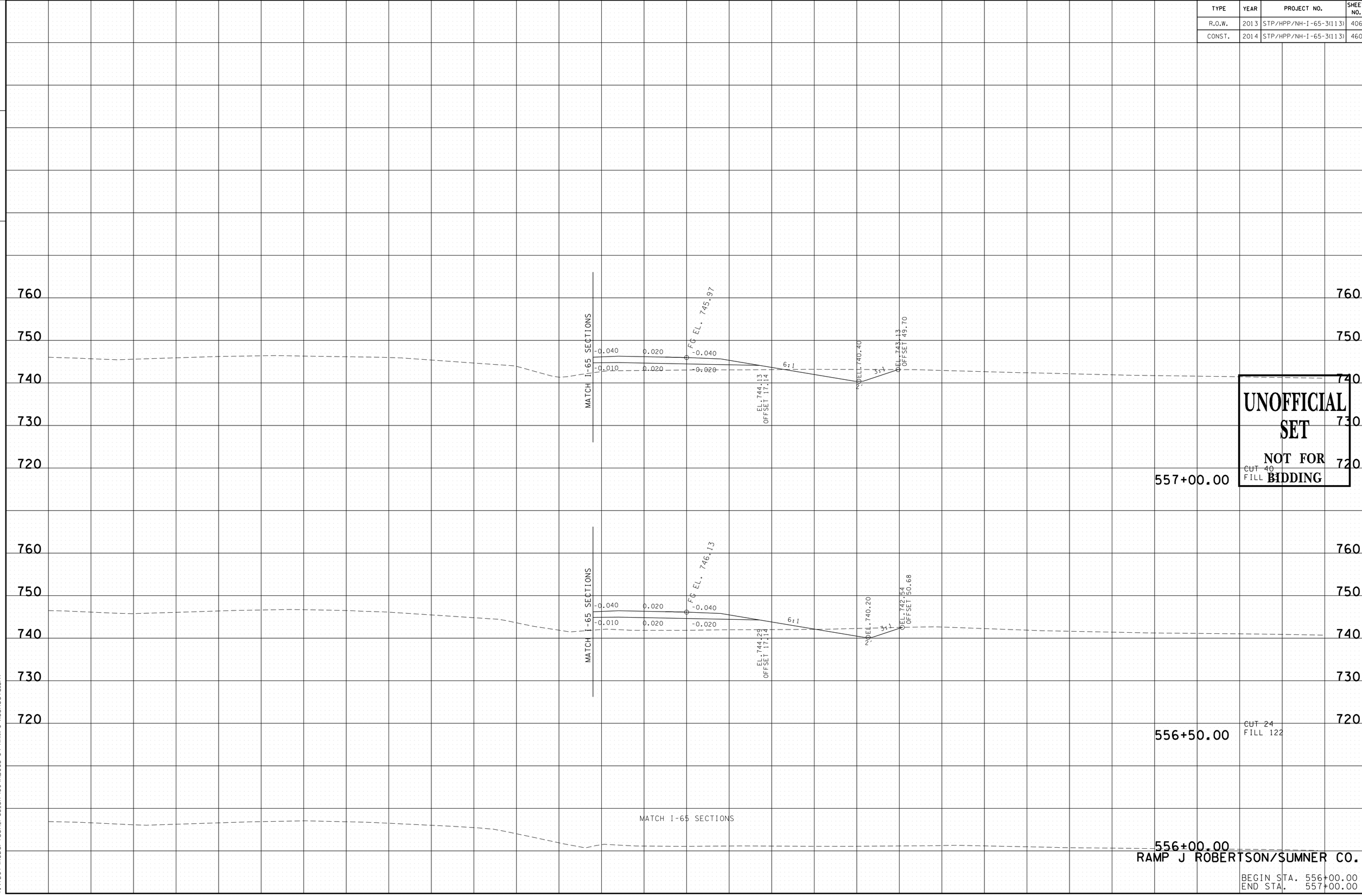
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	406
CONST.	2014	STP/HPP/NH-I-65-3(113)	460

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP J ROBERTSON/SUMNER CO.

BEGIN STA. 556+00.00
END STA. 557+00.00

9/22/2014 10:23:23 PM
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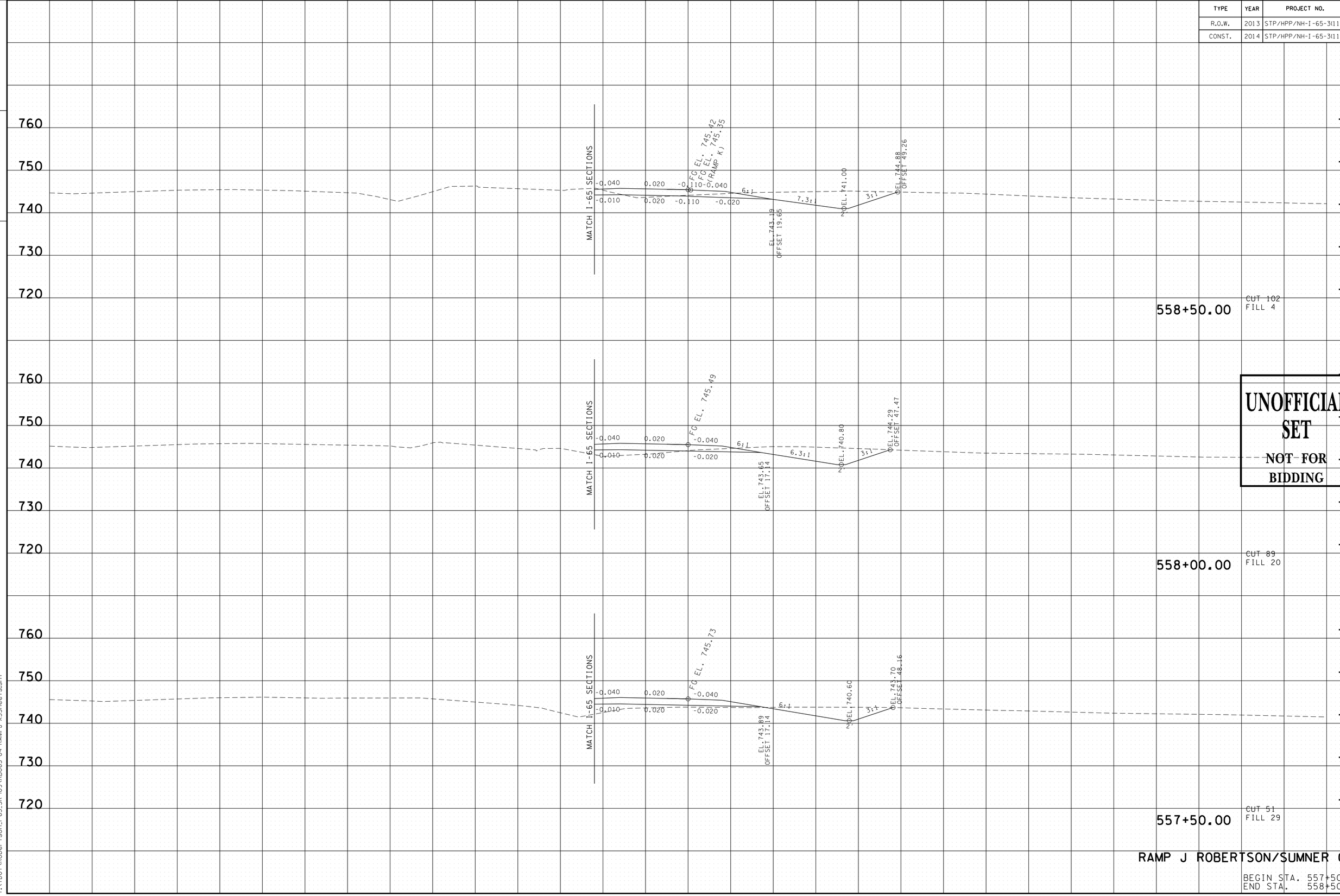
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	407
CONST.	2014	STP/HPP/NH-I-65-3(113)	461

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP J ROBERTSON/SUMNER CO.

BEGIN STA. 557+50.00
END STA. 558+50.00

9/22/2014 10:23:24 PM
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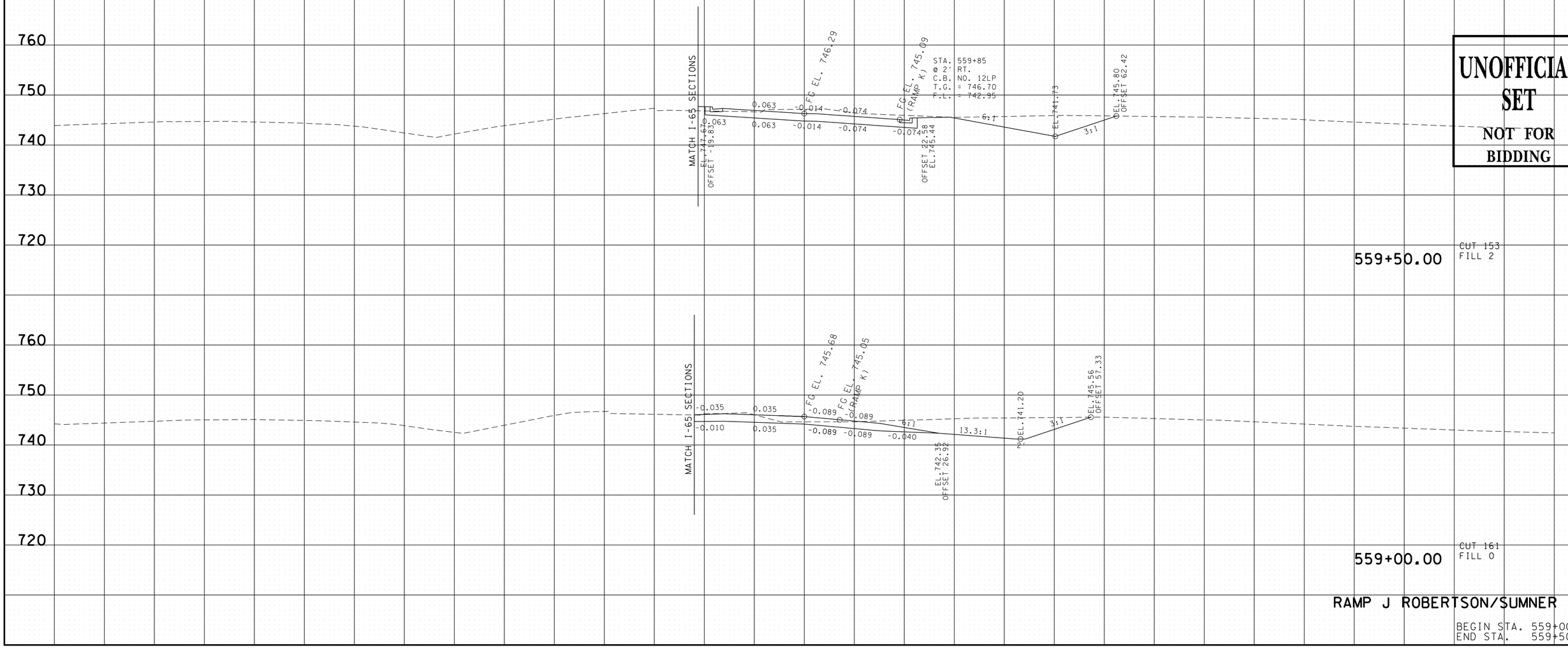
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	408
CONST.	2014	STP/HPP/NH-I-65-3(113)	462

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

RAMP J ROBERTSON/SUMNER CO.

BEGIN STA. 559+00.00
END STA. 559+50.00

9/22/2014 10:23:24 PM
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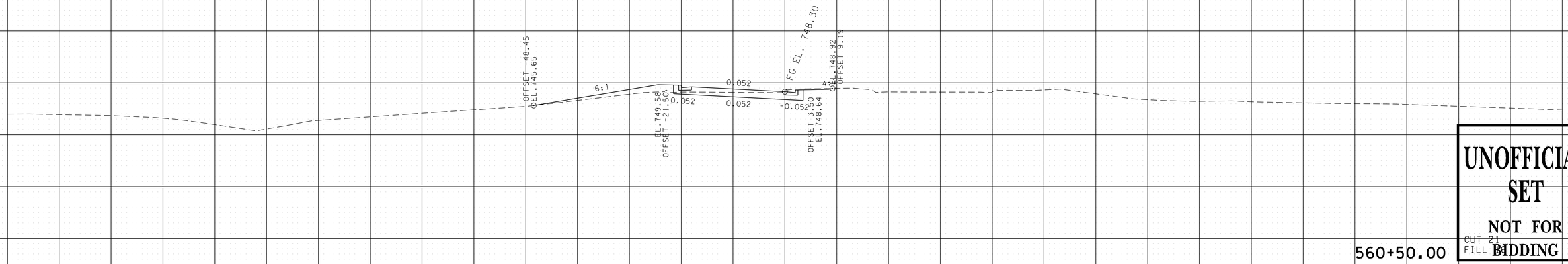
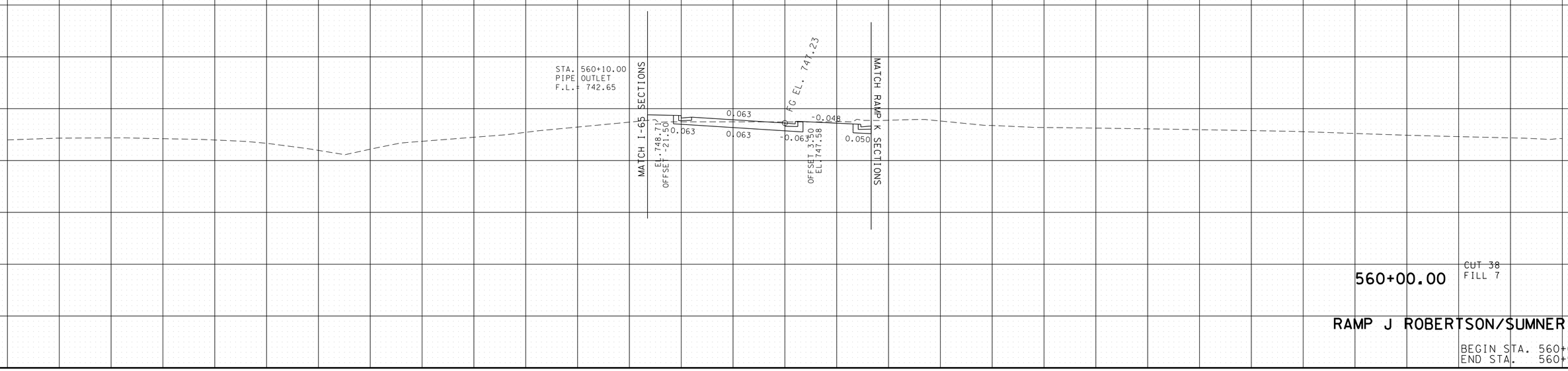
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	409
CONST.	2014	STP/HPP/NH-I-65-3(113)	463

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING



RAMP J ROBERTSON/SUMNER CO.

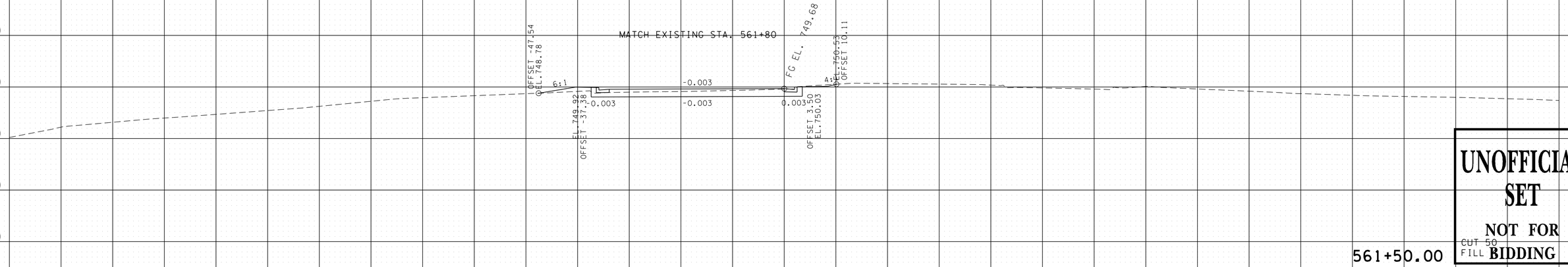
BEGIN STA. 560+00.00
END STA. 560+50.00

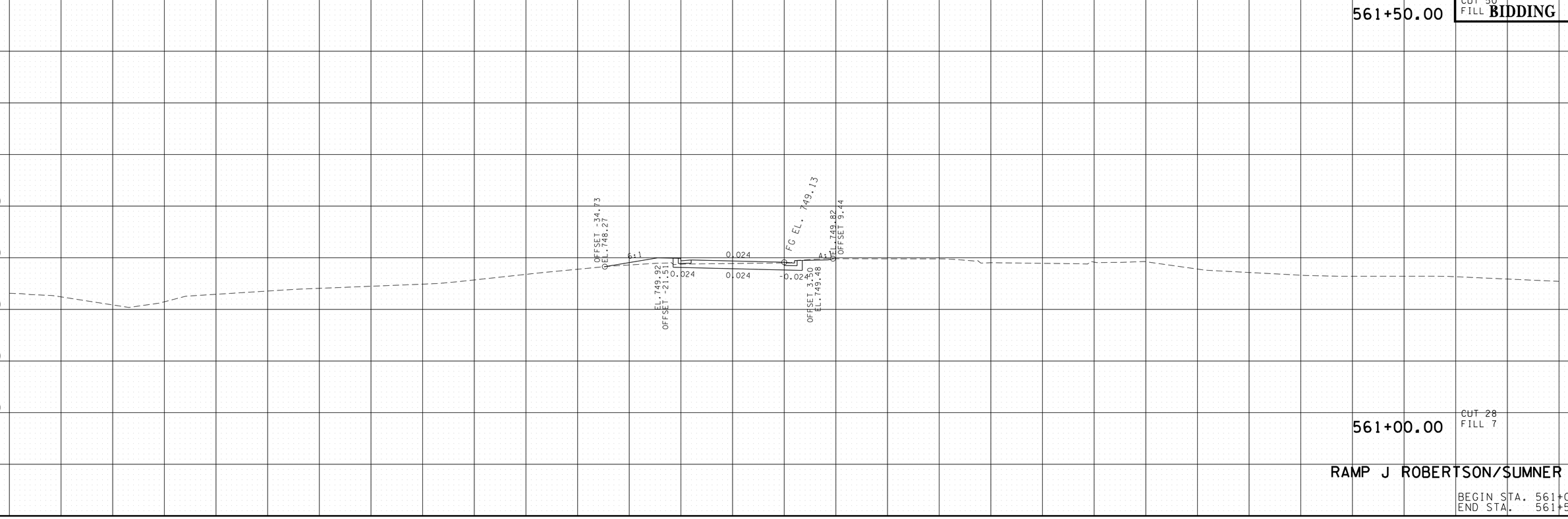
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:23:25 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-RAMPJ-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	410
CONST.	2014	STP/HPP/NH-I-65-3(113)	464

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





RAMP J ROBERTSON/SUMNER CO.

BEGIN STA. 561+00.00
END STA. 561+50.00

9/22/2014 10:23:26 PM
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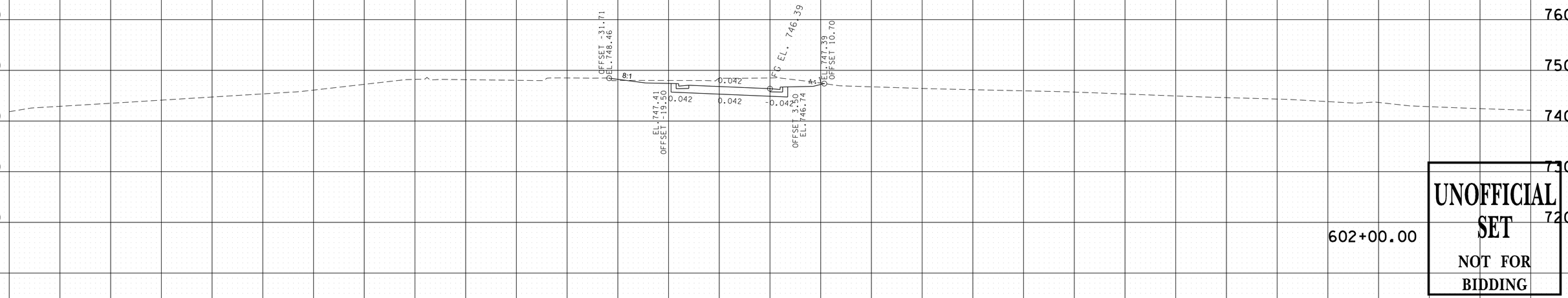
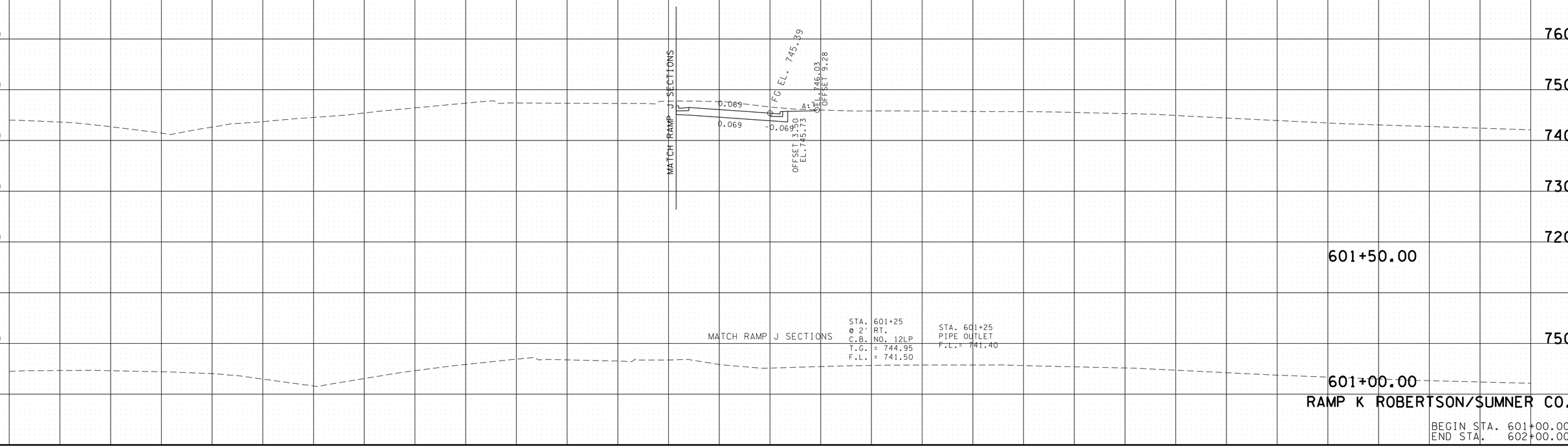
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	411
CONST.	2014	STP/HPP/NH-I-65-3(113)	465

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.





UNOFFICIAL SET
NOT FOR BIDDING

RAMP K ROBERTSON/SUMNER CO.

BEGIN STA. 601+00.00
END STA. 602+00.00

9/22/2014 10:23:27 PM
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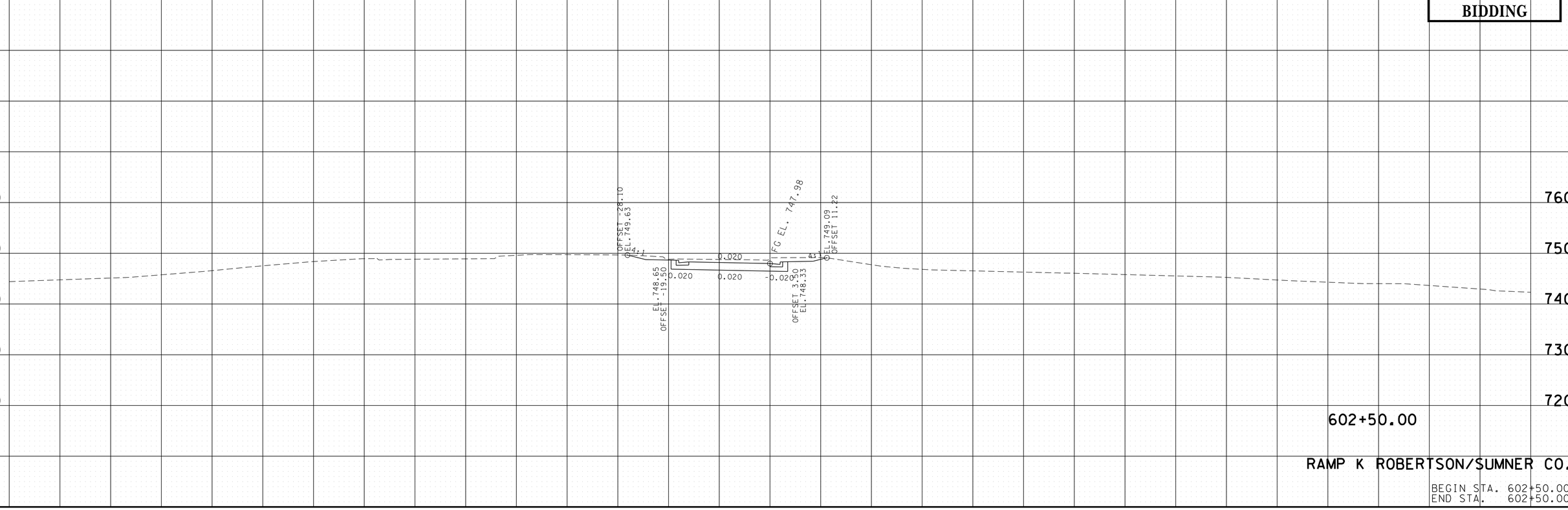
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	412
CONST.	2014	STP/HPP/NH-I-65-3(113)	466

UNOFFICIAL SET

NOT FOR BIDDING



602+50.00

RAMP K ROBERTSON/SUMNER CO.

BEGIN STA. 602+50.00
END STA. 602+50.00

9/22/2014 10:23:27 PM
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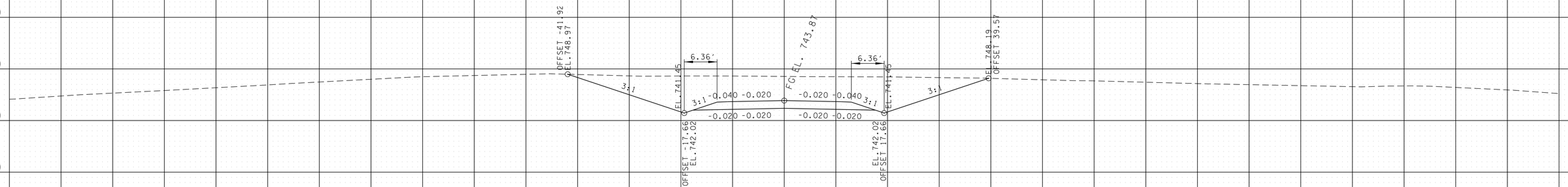
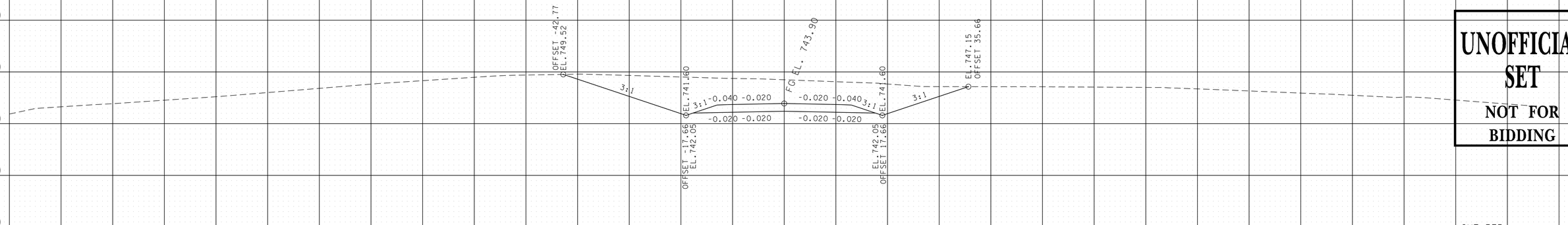
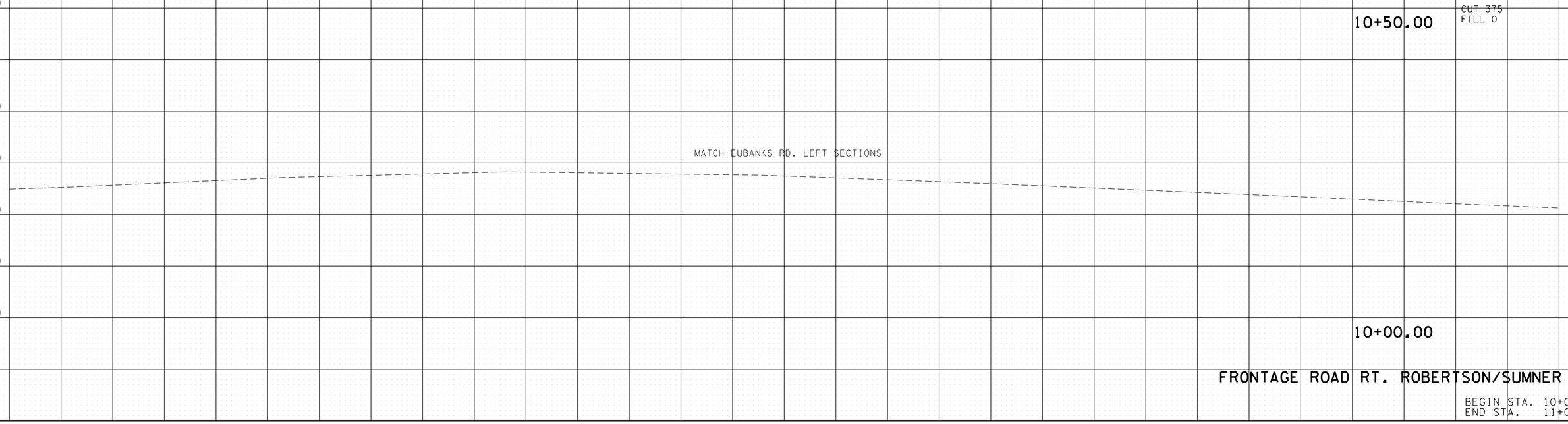
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	413
CONST.	2014	STP/HPP/NH-I-65-3(113)	467

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.







UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 10+00.00
END STA. 11+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

9/22/2014 10:23:32 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-FRONTI-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	414
CONST.	2014	STP/HPP/NH-I-65-3(113)	468

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 11+50.00
END STA. 12+50.00

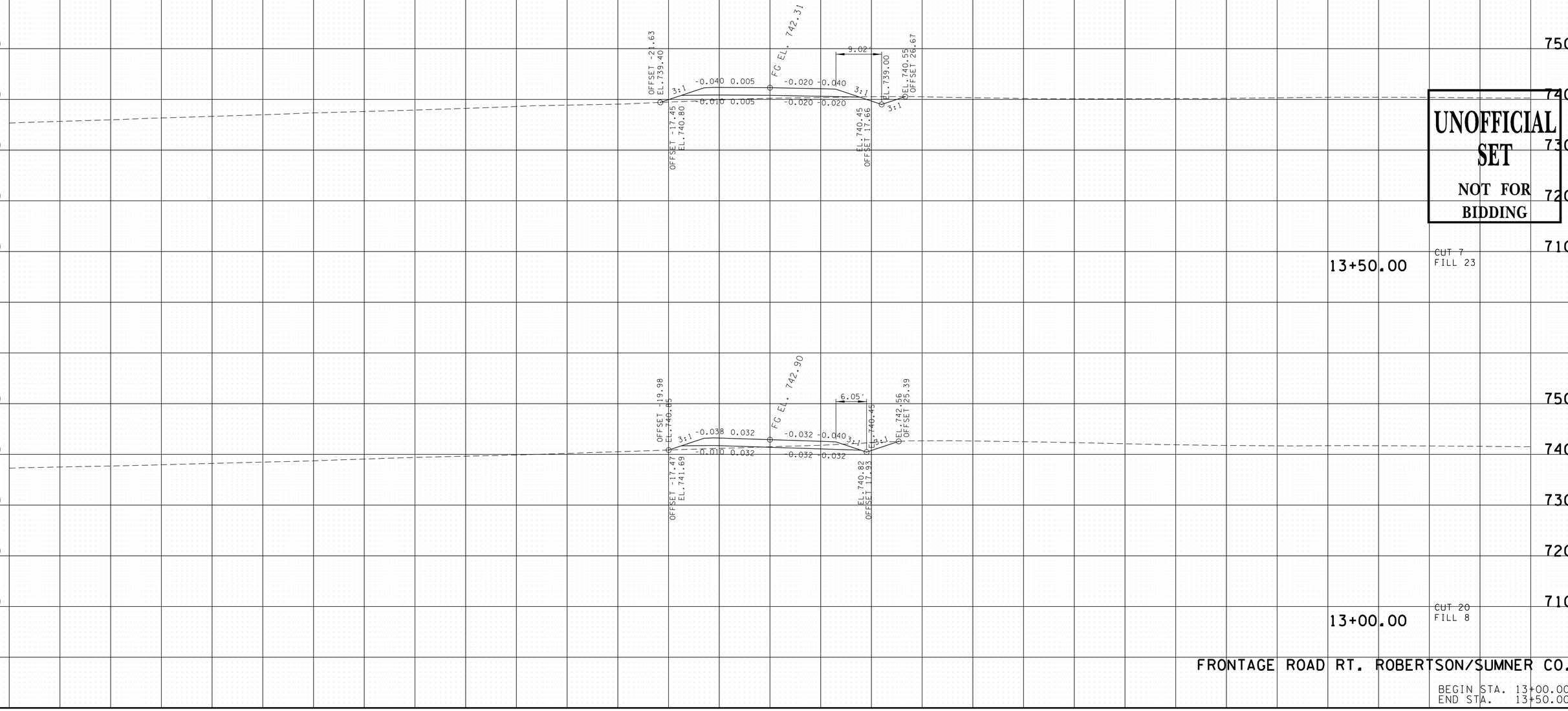
9/22/2014 10:23:33 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-FRONT-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	415
CONST.	2014	STP/HPP/NH-I-65-3(113)	469



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 13+00.00
END STA. 13+50.00

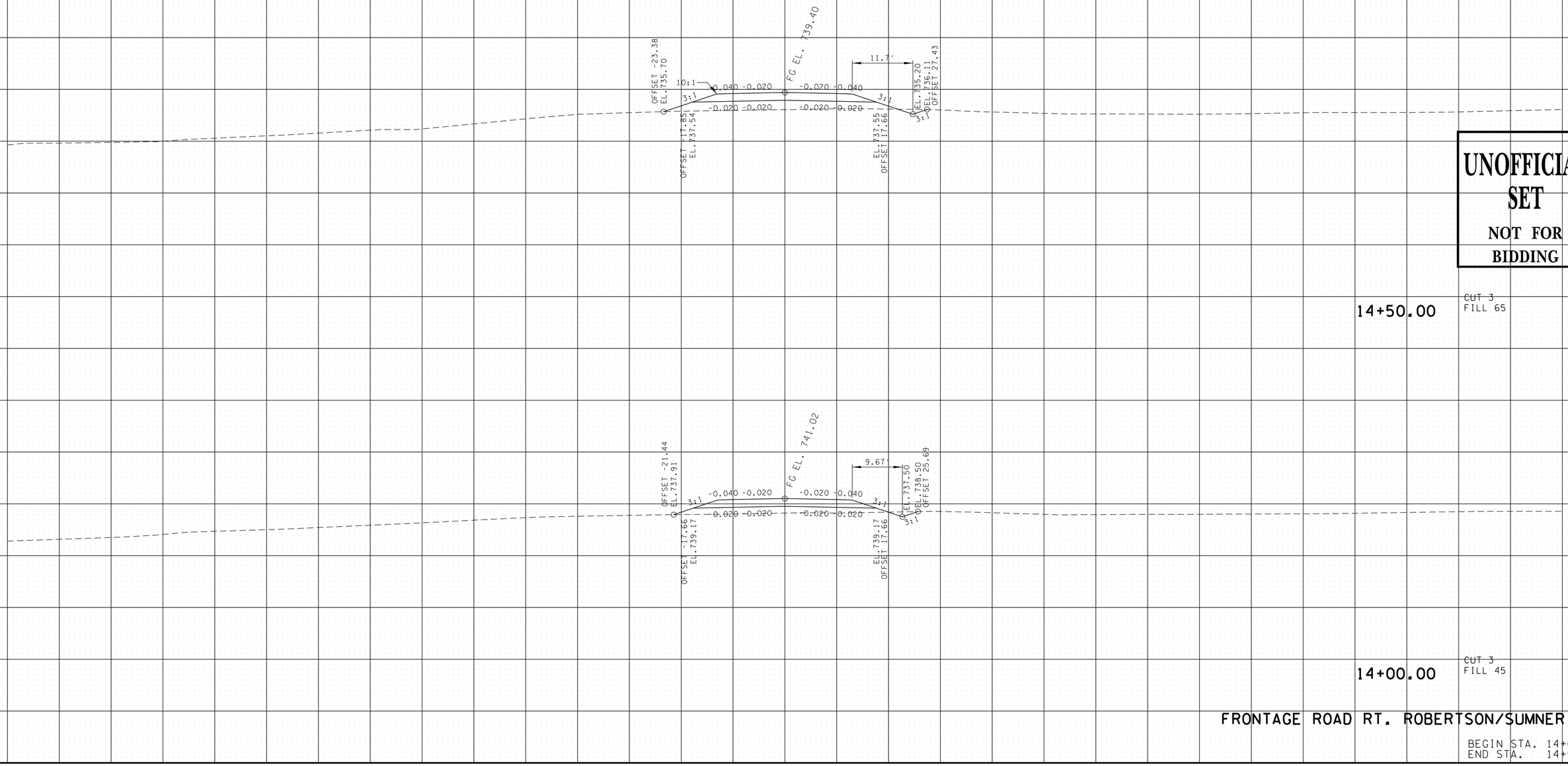
9/22/2014 10:23:34 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-FRONTI-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	416
CONST.	2014	STP/HPP/NH-I-65-3(113)	470

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



14+50.00 CUT 3 FILL 65

14+00.00 CUT 3 FILL 45

UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 14+00.00
END STA. 14+50.00

9/22/2014 10:23:35 PM
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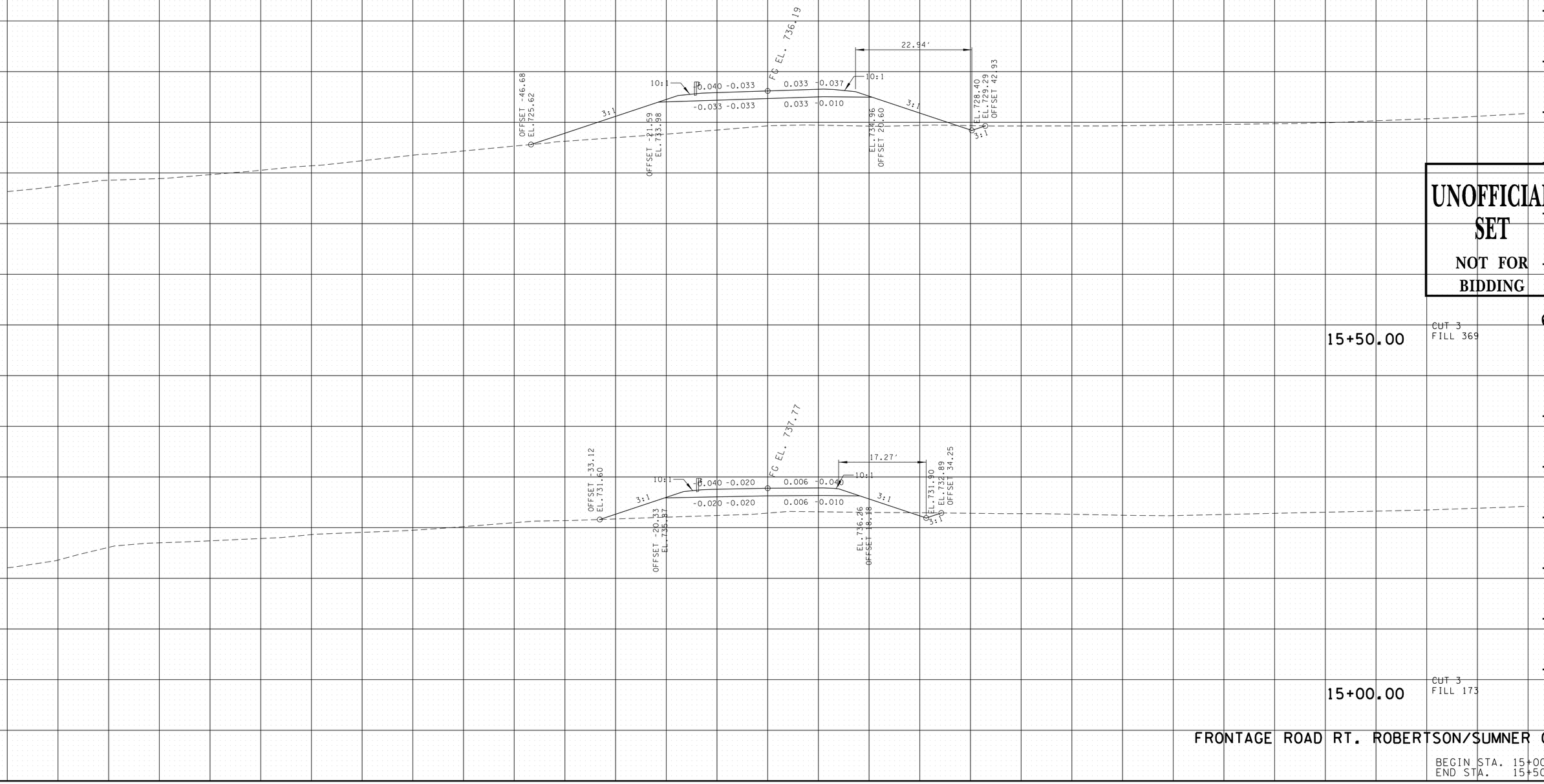
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	417
CONST.	2014	STP/HPP/NH-I-65-3(113)	471

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 15+00.00
END STA. 15+50.00

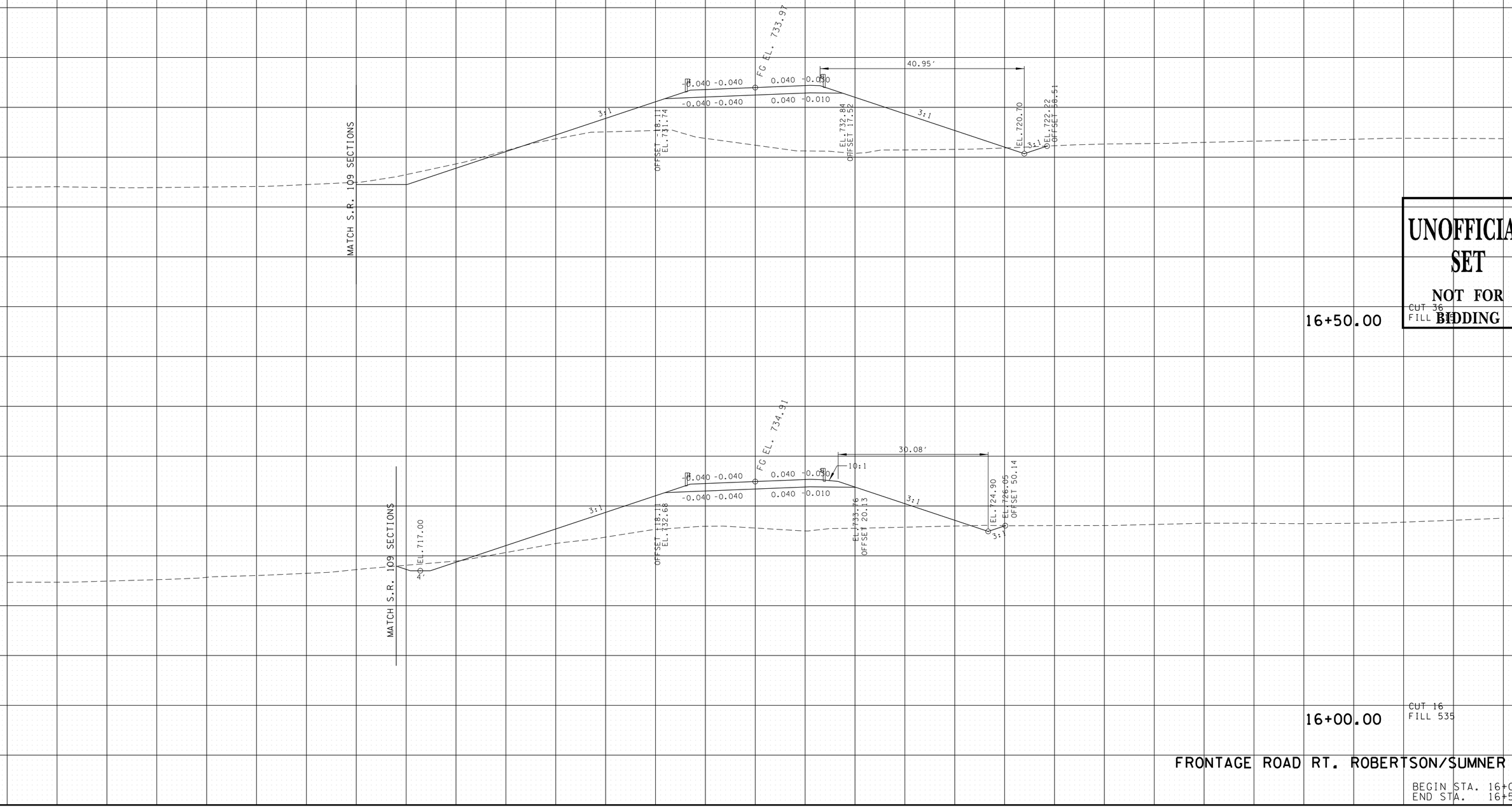
9/22/2014 10:23:36 PM
T:\TDOT\Robertson_I-65_SR-109\RB065-04-FRONTI-XSSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	418
CONST.	2014	STP/HPP/NH-I-65-3(113)	472

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 16+00.00
END STA. 16+50.00

9/22/2014 10:23:37 PM
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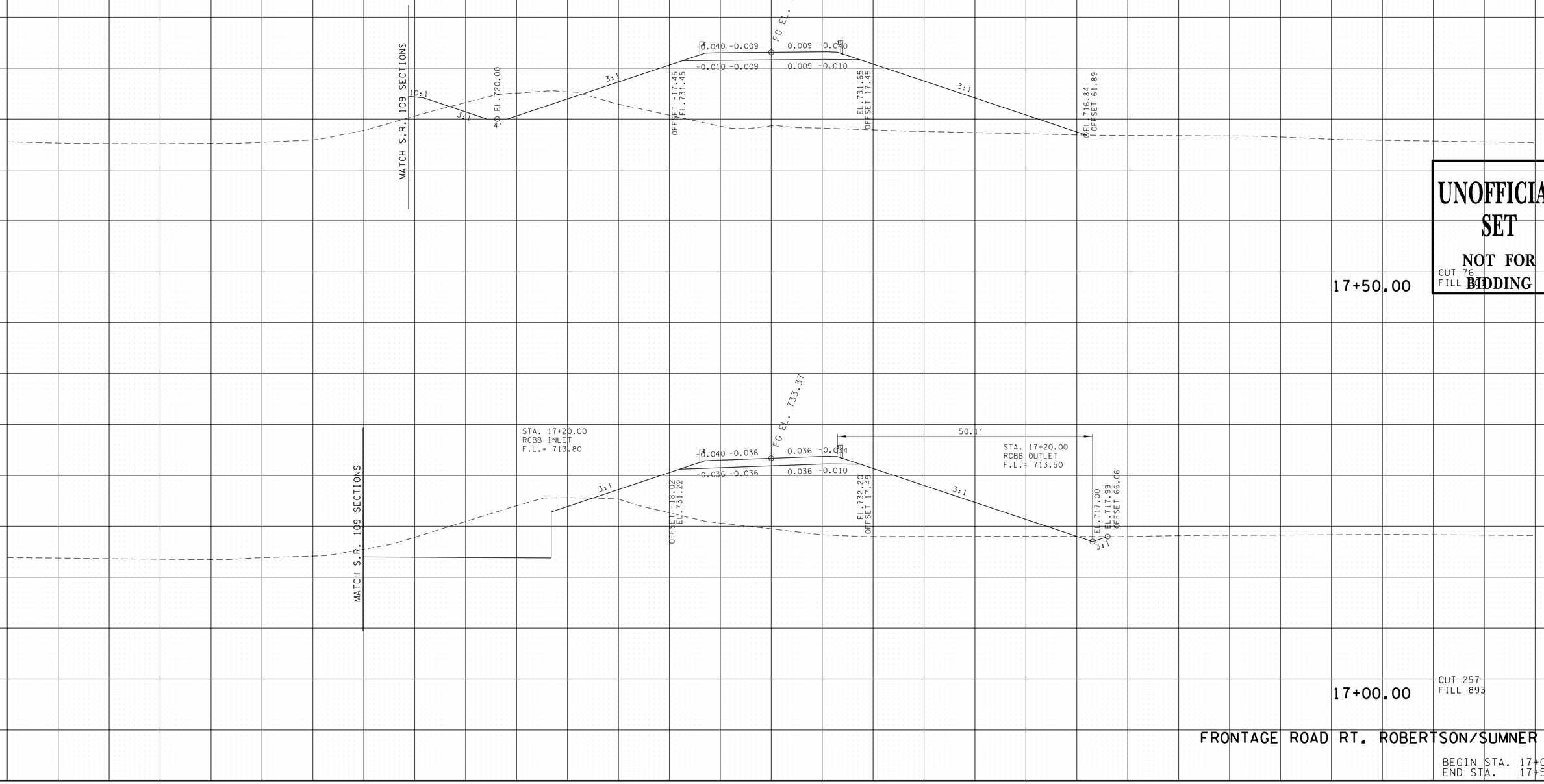
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	419
CONST.	2014	STP/HPP/NH-I-65-3(113)	473

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 17+00.00
END STA. 17+50.00

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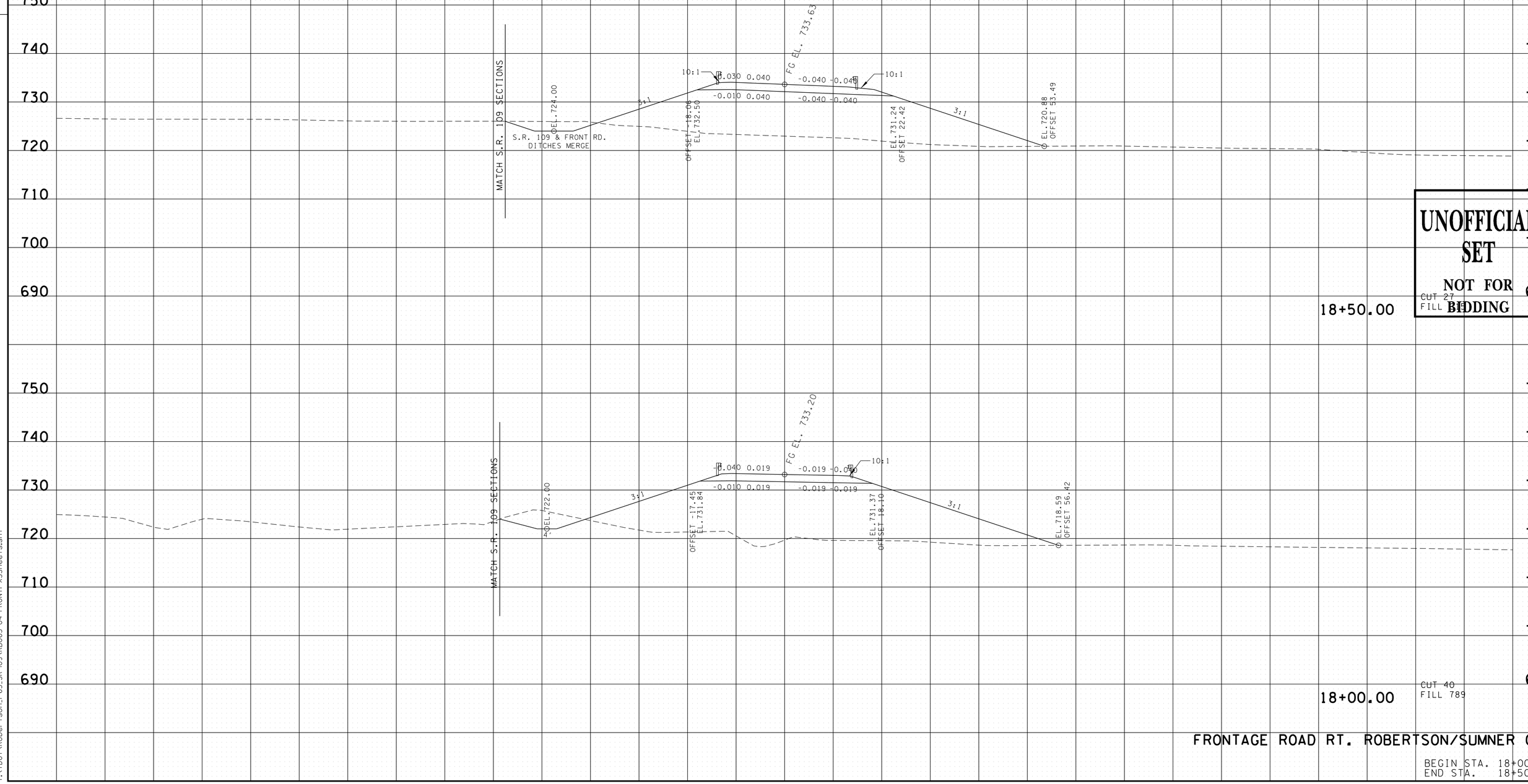
T:\TDOT\Robertson_I-65_SR-109\RB065-04-FRONTI-XSSheets.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	420
CONST.	2014	STP/HPP/NH-I-65-3(113)	474



FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 18+00.00
END STA. 18+50.00

9/22/2014 10:23:40 PM
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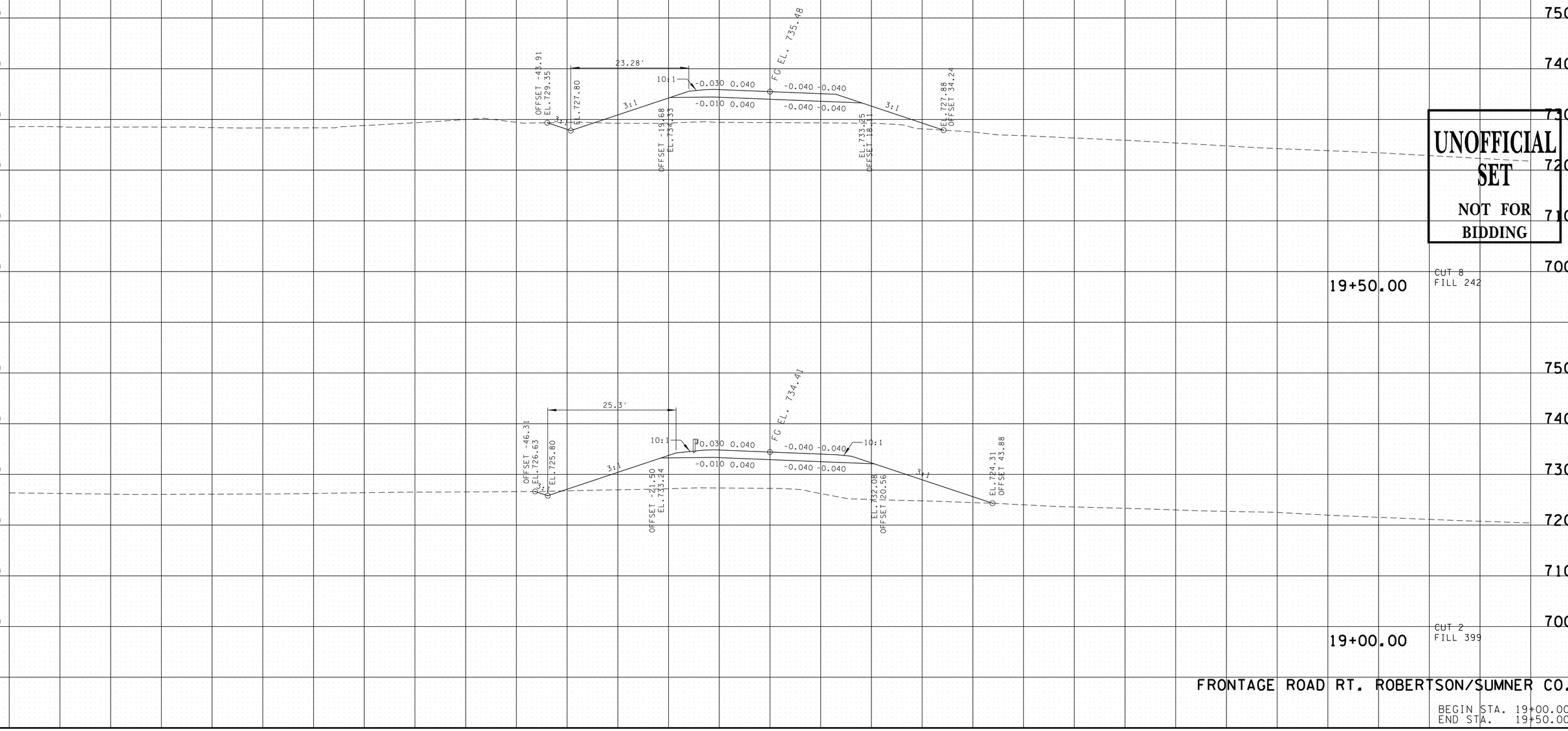
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	421
CONST.	2014	STP/HPP/NH-I-65-3(113)	475



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 19+00.00
END STA. 19+50.00

9/22/2014 10:23:41 PM
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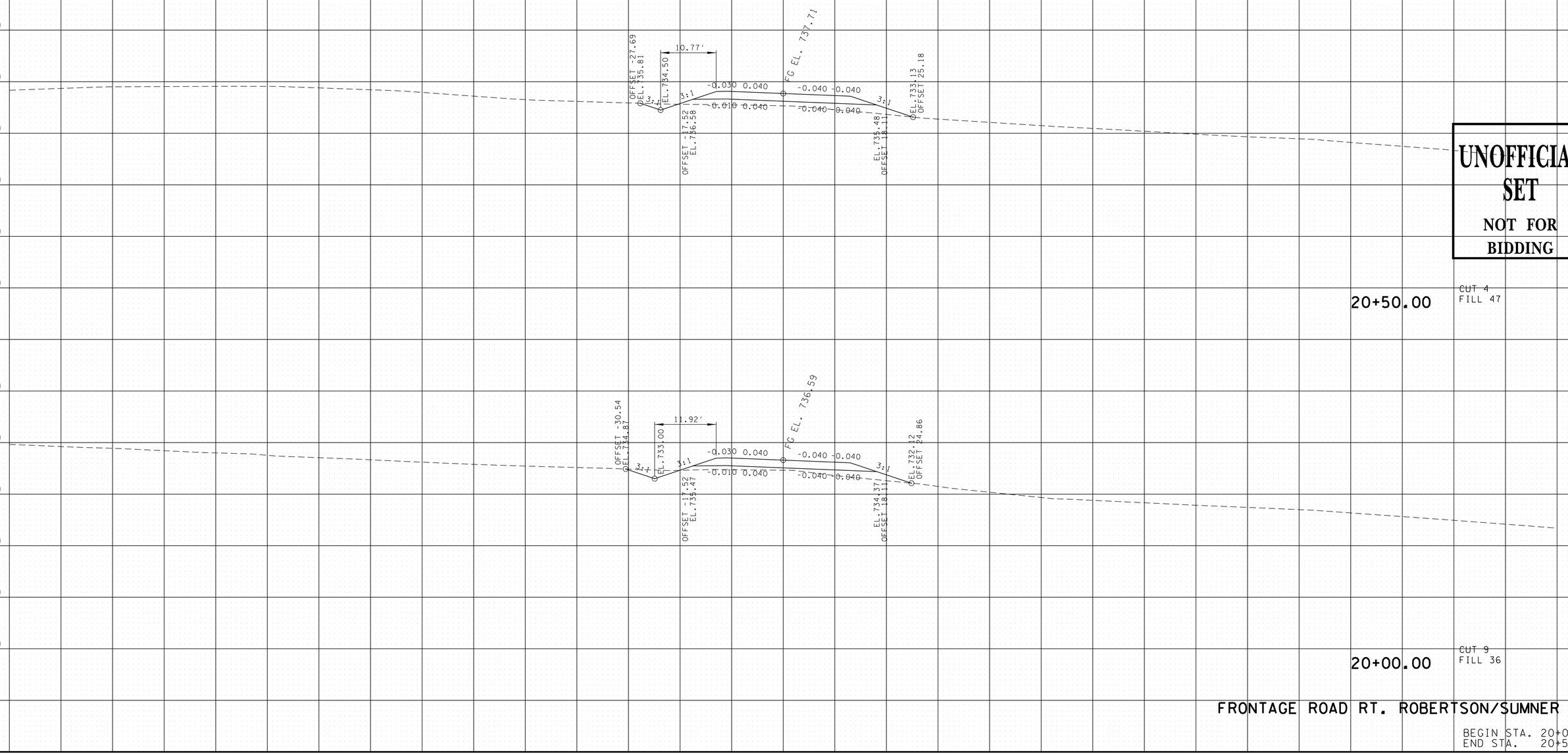
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	422
CONST.	2014	STP/HPP/NH-I-65-3(113)	476

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 20+00.00
END STA. 20+50.00

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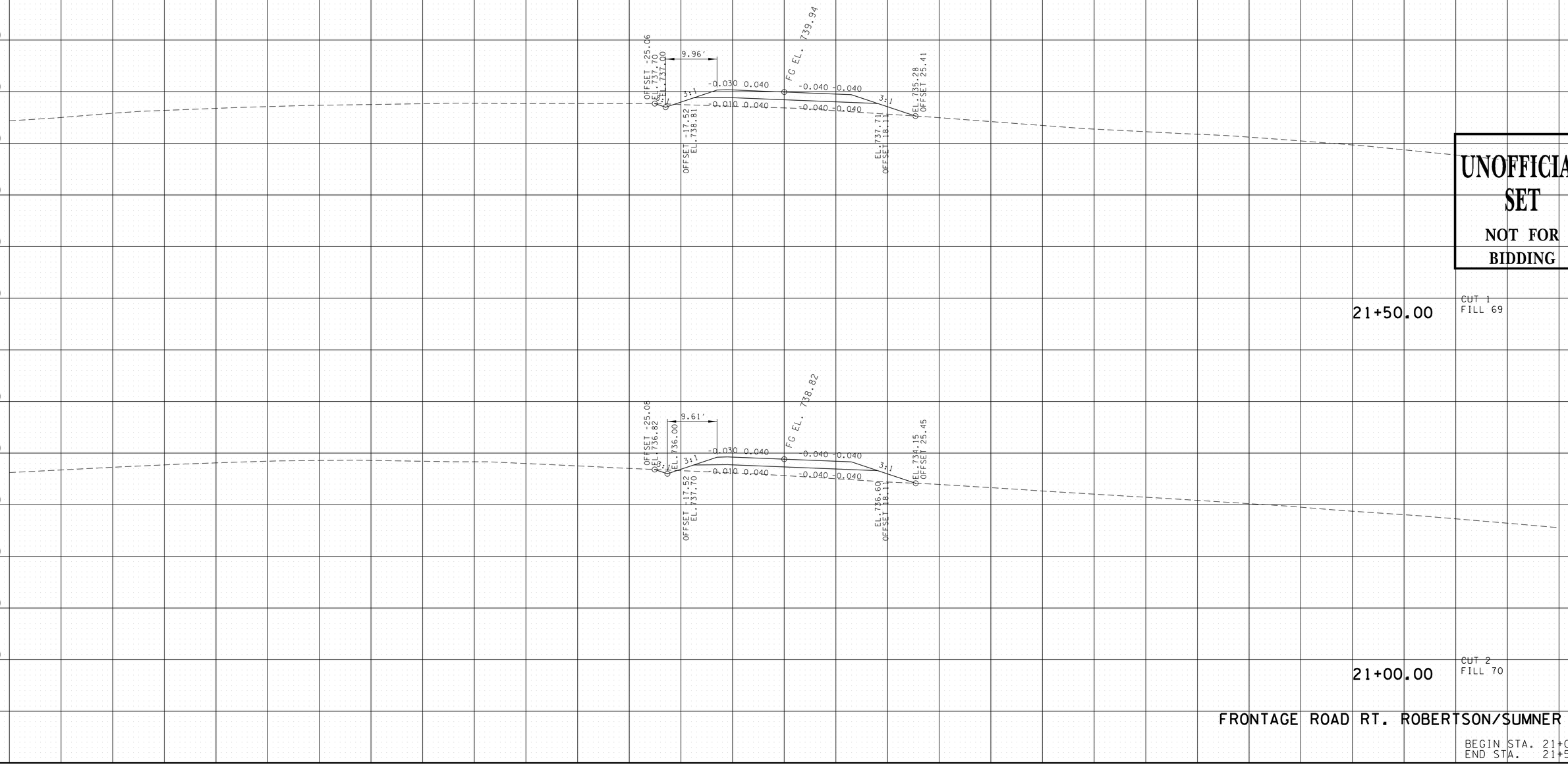
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	423
CONST.	2014	STP/HPP/NH-I-65-3(113)	477

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 21+00.00
END STA. 21+50.00

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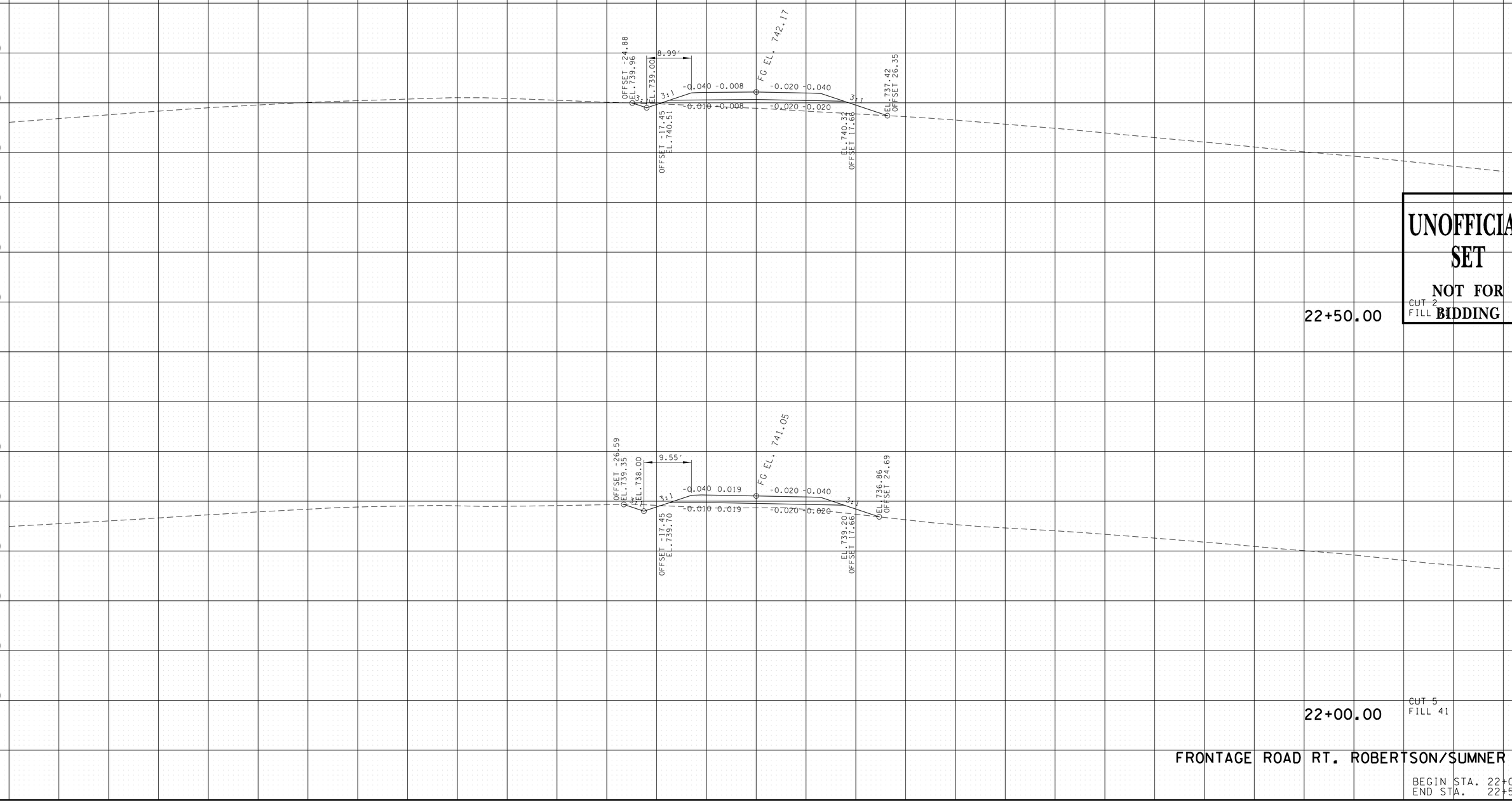
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	424
CONST.	2014	STP/HPP/NH-I-65-3(113)	478

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 22+00.00
END STA. 22+50.00

9/22/2014 10:23:44 PM
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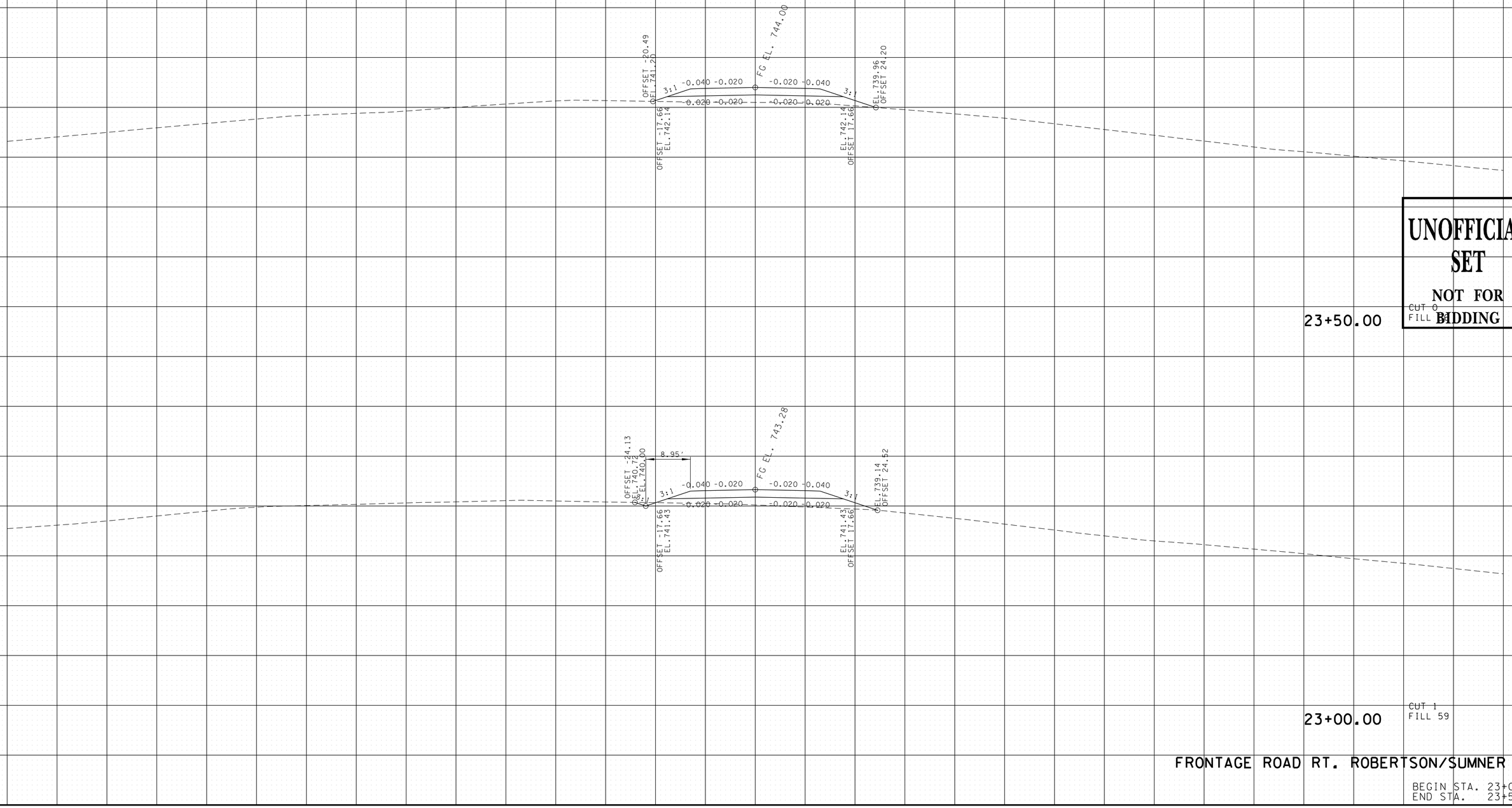
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	425
CONST.	2014	STP/HPP/NH-I-65-3(113)	479

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 23+00.00
END STA. 23+50.00

9/22/2014 10:23:46 PM
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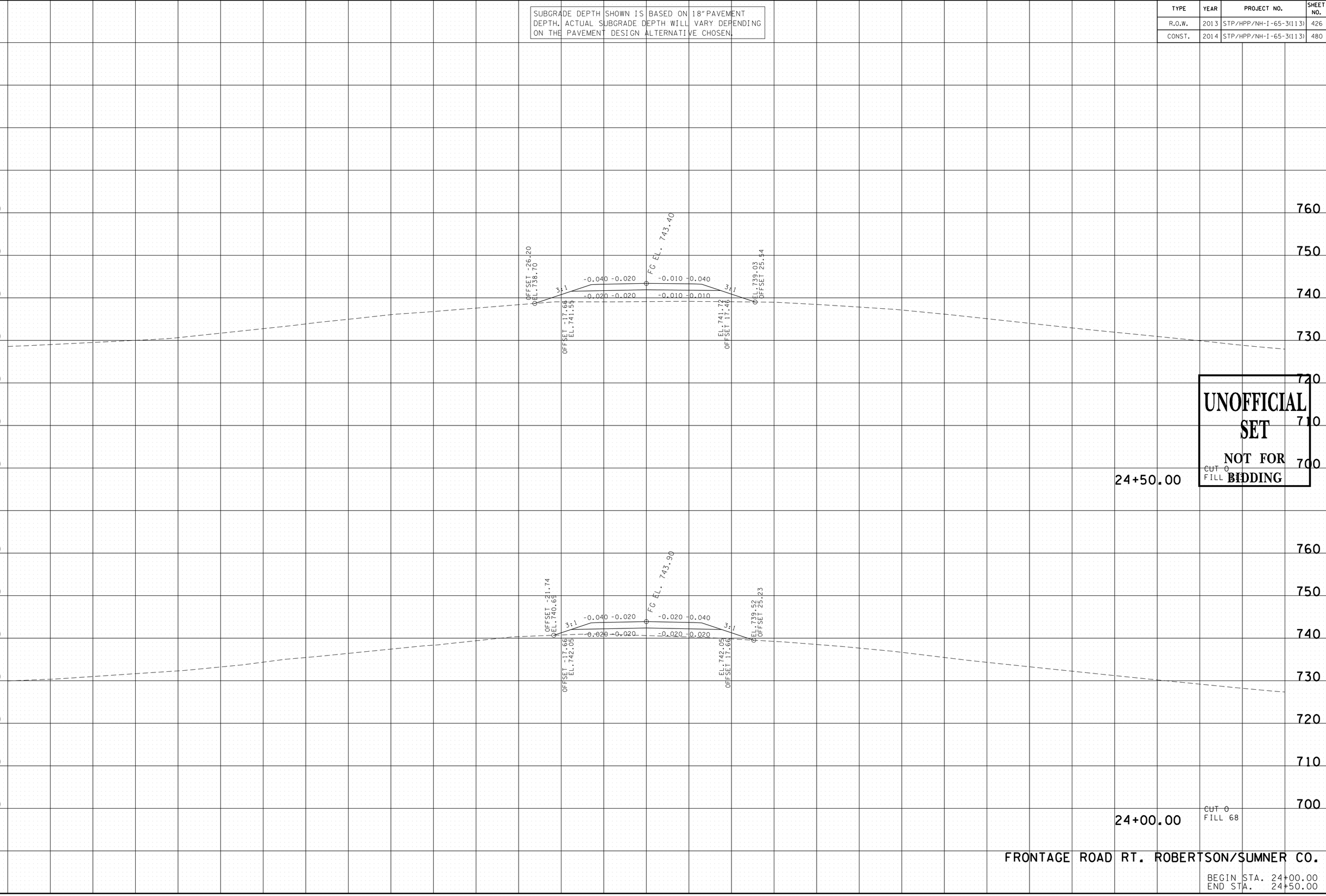
SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	426
CONST.	2014	STP/HPP/NH-I-65-3(113)	480

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 24+00.00
END STA. 24+50.00

9/22/2014 10:23:47 PM
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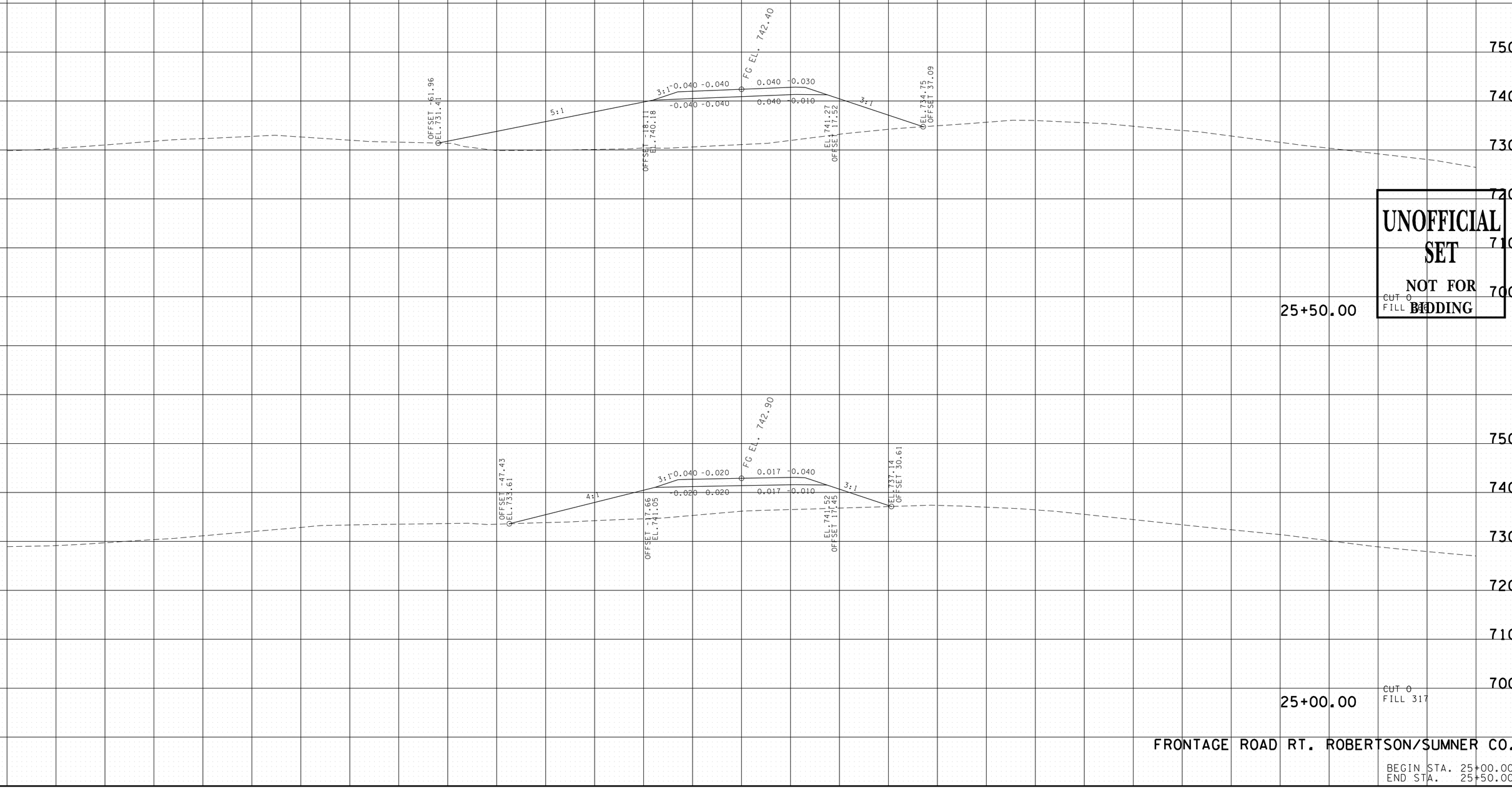
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	427
CONST.	2014	STP/HPP/NH-I-65-3(113)	481

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 25+00.00
END STA. 25+50.00

9/22/2014 10:23:48 PM
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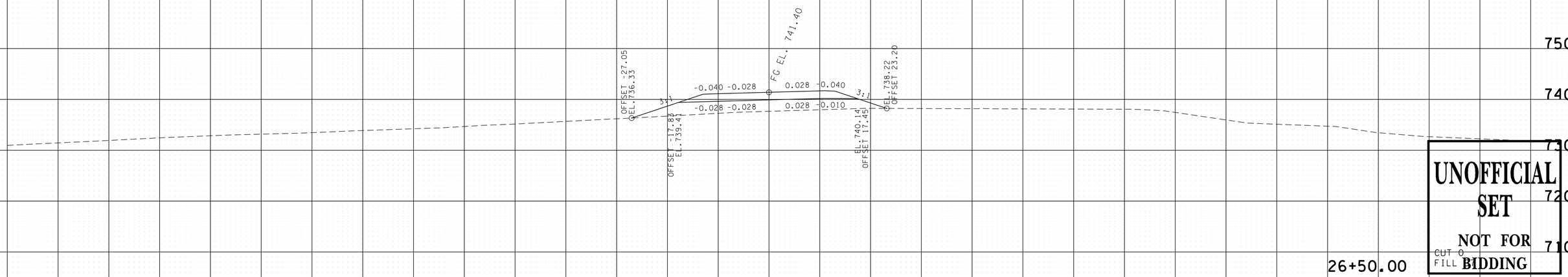
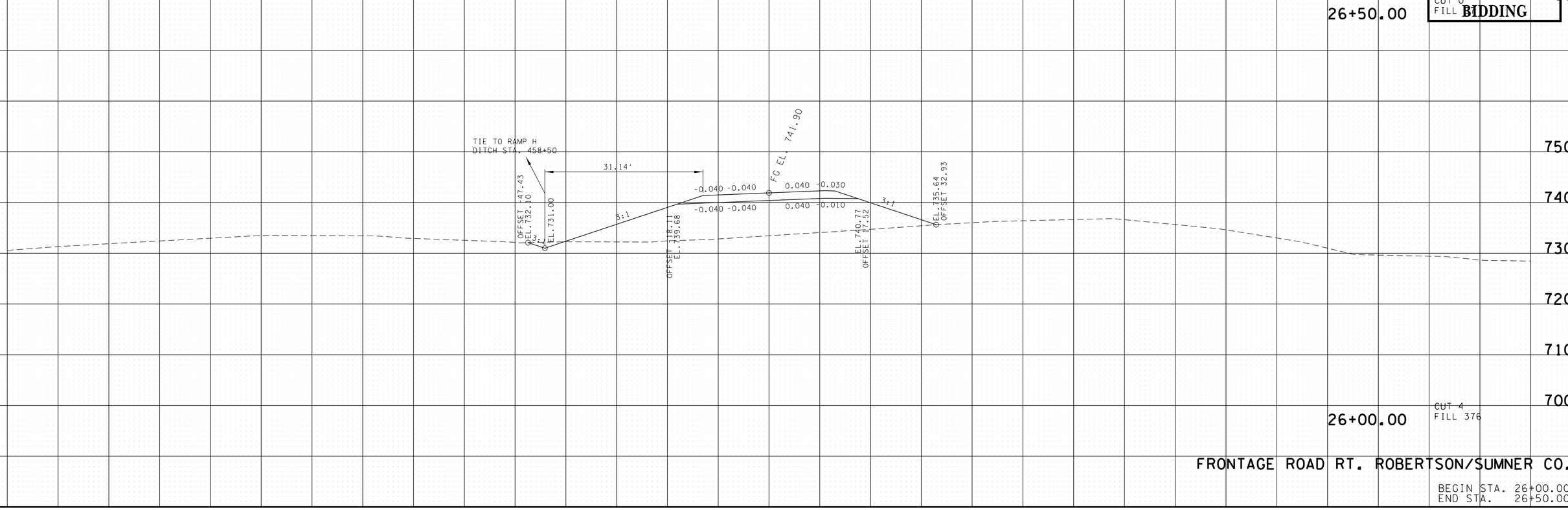
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	428
CONST.	2014	STP/HPP/NH-I-65-3(113)	482

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.





FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 26+00.00
END STA. 26+50.00

9/22/2014 10:23:49 PM
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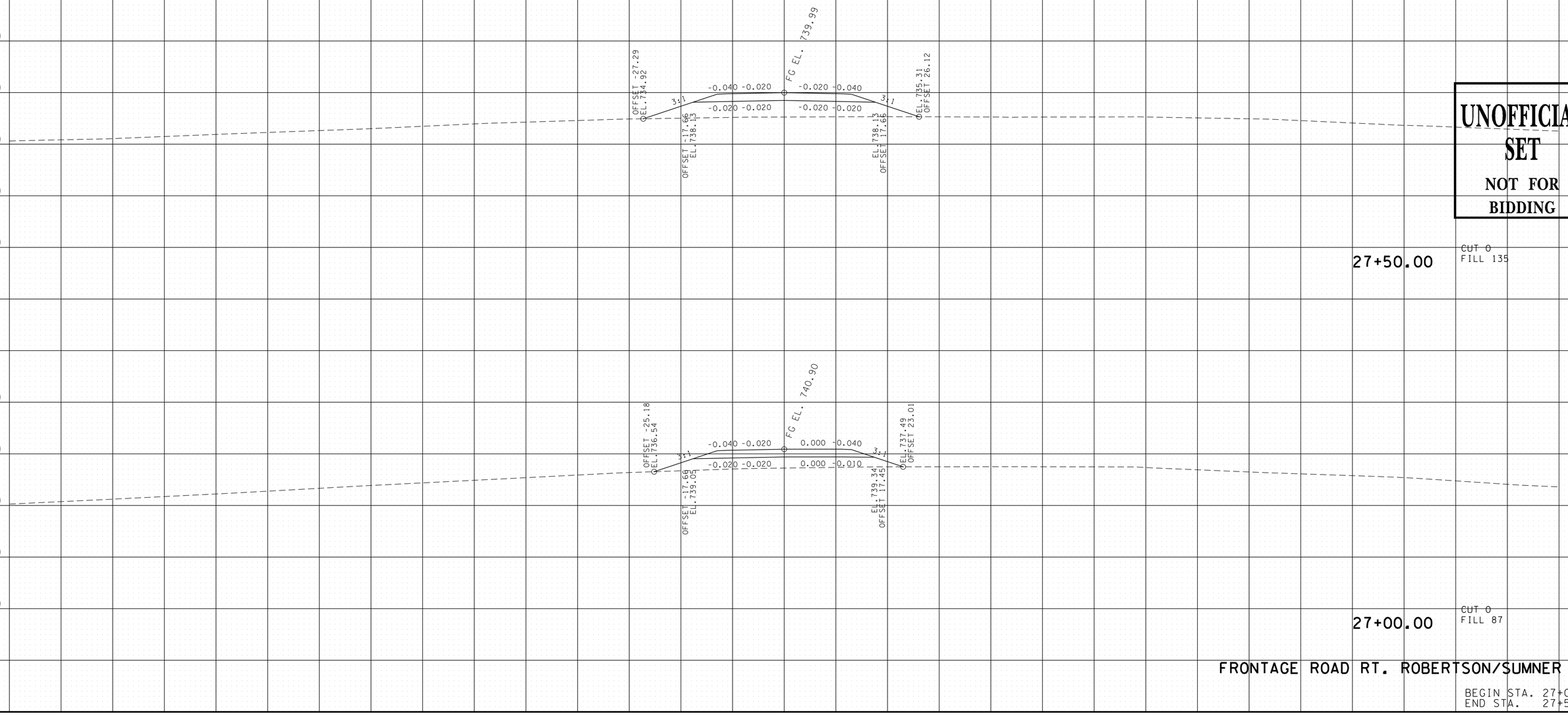
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	429
CONST.	2014	STP/HPP/NH-I-65-3(113)	483

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 27+00.00
END STA. 27+50.00

9/22/2014 10:23:50 PM
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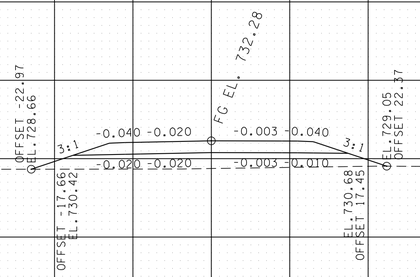
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	430
CONST.	2014	STP/HPP/NH-I-65-3(113)	484

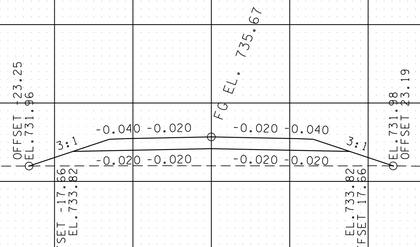
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

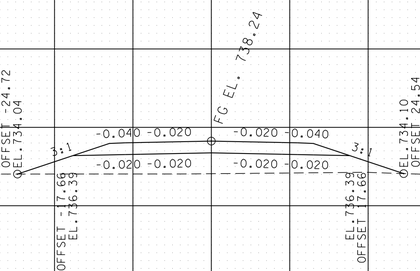
SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



29+00.00 CUT 0 FILL 75



28+50.00 CUT 0 FILL 81



28+00.00 CUT 0 FILL 102

UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 28+00.00
END STA. 29+00.00

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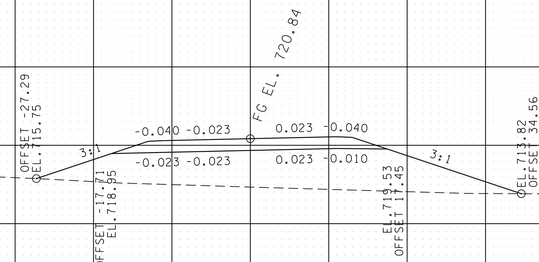
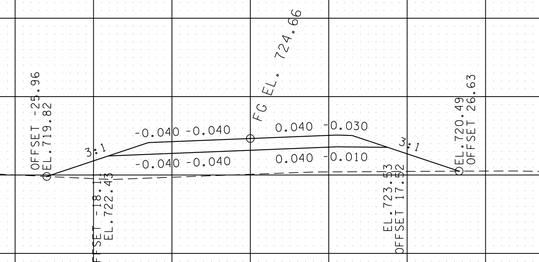
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	431
CONST.	2014	STP/HPP/NH-I-65-3(113)	485

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



30+50.00

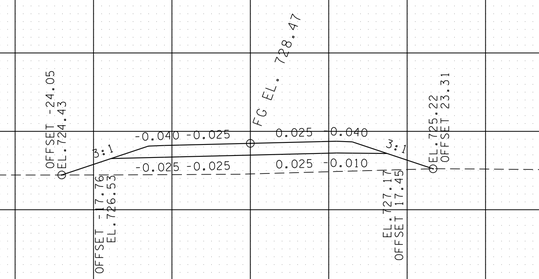
CUT 0
FILL 228



UNOFFICIAL SET
NOT FOR BIDDING

30+00.00

CUT 0
FILL 135



29+50.00

CUT 0
FILL 94

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 29+50.00
END STA. 30+50.00

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

9/22/2014 10:23:59 PM
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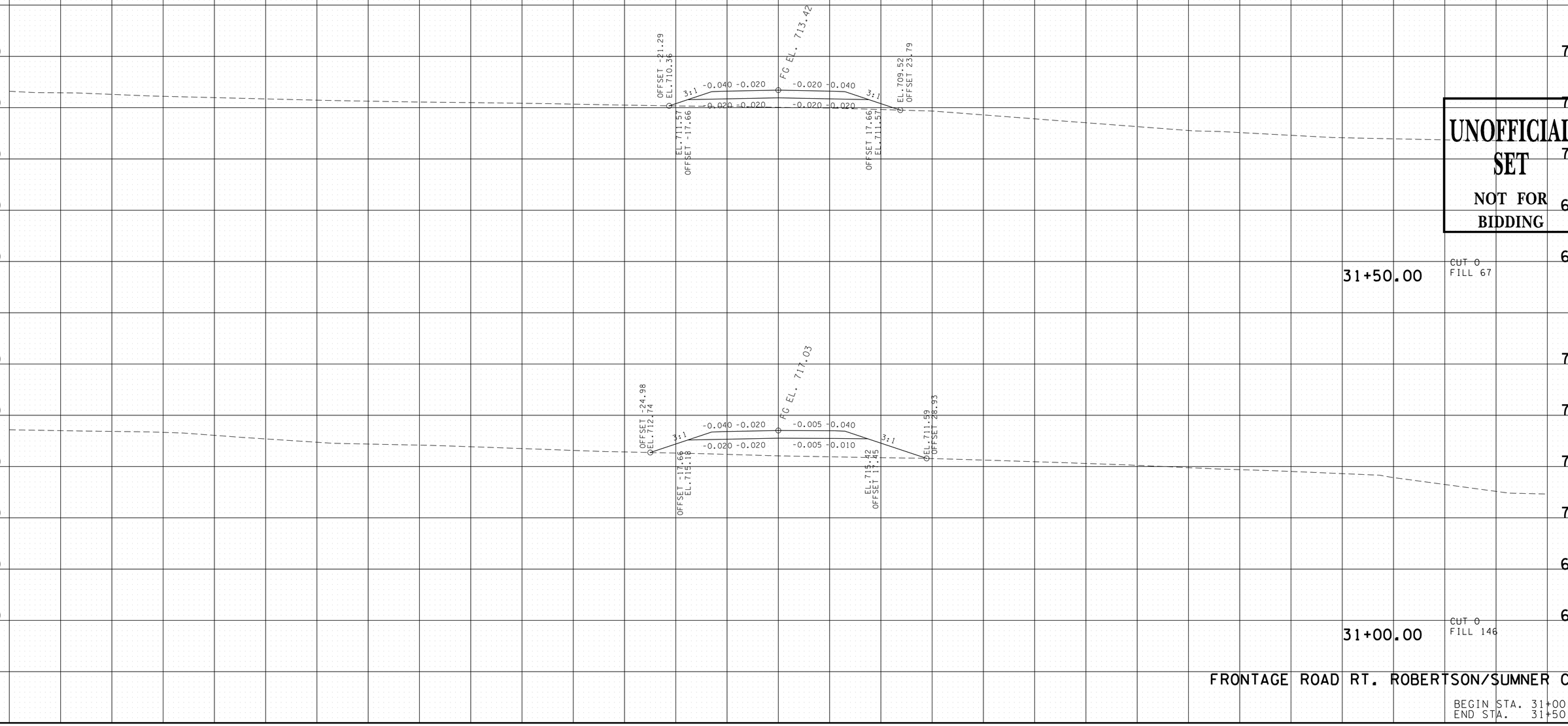
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	432
CONST.	2014	STP/HPP/NH-I-65-3(113)	486

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 31+00.00
END STA. 31+50.00

9/22/2014 10:24:00 PM
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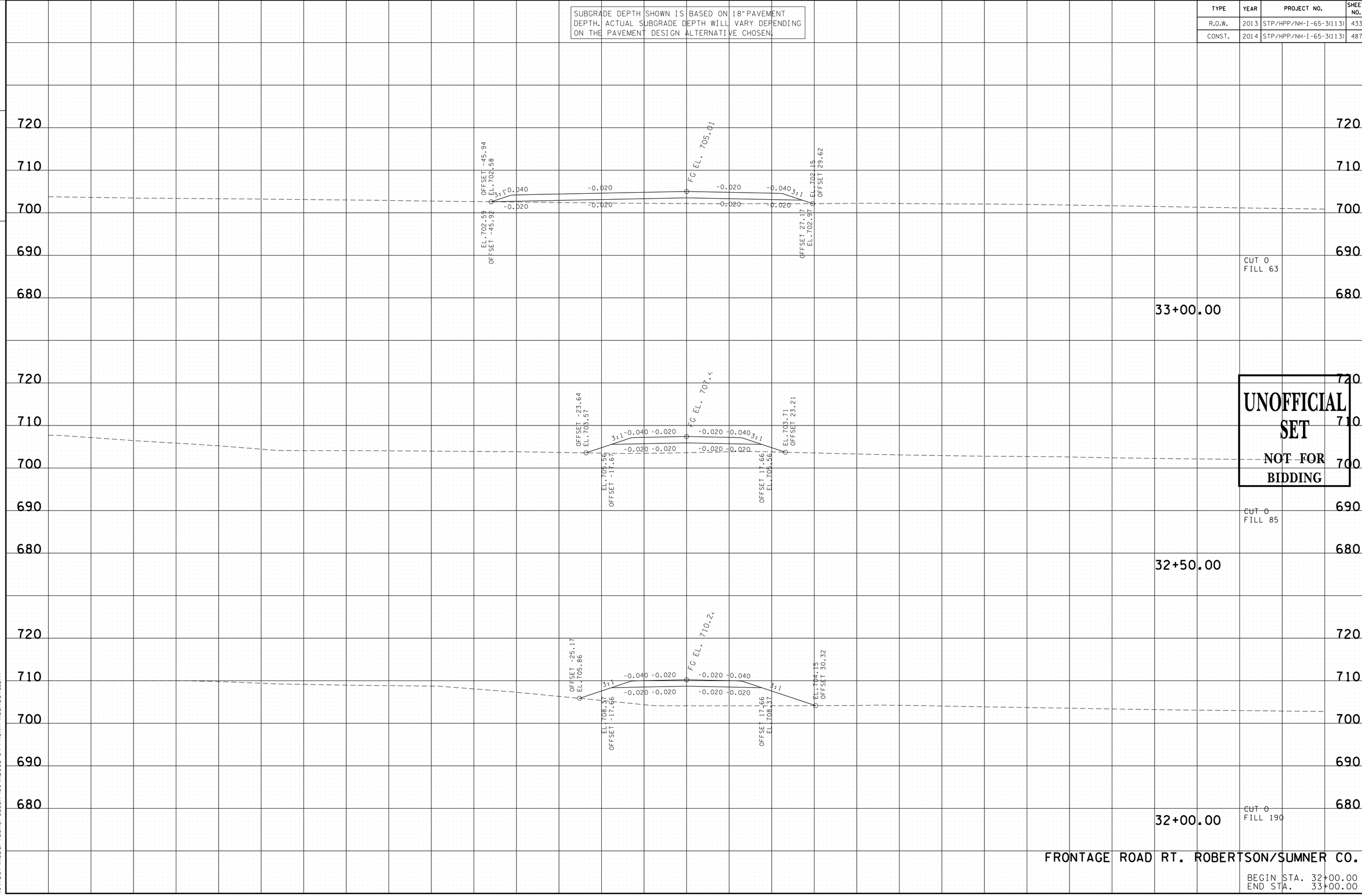
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP/HPP/NH-I-65-3(113)	433
CONST.	2014	STP/HPP/NH-I-65-3(113)	487

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SUBGRADE DEPTH SHOWN IS BASED ON 18" PAVEMENT DEPTH. ACTUAL SUBGRADE DEPTH WILL VARY DEPENDING ON THE PAVEMENT DESIGN ALTERNATIVE CHOSEN.



UNOFFICIAL SET
NOT FOR BIDDING

FRONTAGE ROAD RT. ROBERTSON/SUMNER CO.

BEGIN STA. 32+00.00
END STA. 33+00.00

9/22/2014 10:24:01 PM
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