STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
REGION 2
P.O. BOX 22368
CHATTANOOGA, TN 37422
(423) 892-3430

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

MEMORANDUM

TO: Eplans.Turnin.TDOT@tn.gov

FROM: Diane T. Evitt
Transportaton Project Specialist Supervisor 1
Region 2 Design

DATE: September 24, 2015

SUBJECT: Project No.: 54013-3216-04
PIN 120613.00
Description: McMinn County
State Industrial Access Road (State Route 163)
Serving Resolute Forest Products In Calhoun

The following completed Construction Plan items for the referenced project are being transmitted for the December 4, 2015 Letting Process.

- ☒ Original Construction Drawings (42 Sheets)
- ☒ Original Roadway Cross-Sections (15 Sheets)
- ☒ Original R.O.W. Title Sheet
- ☒ Copy Grading Quantity Sheets Emailed
- ☒ Estimate Emailed
- ☐ Resurfacing Plans (_____ Sheets)

Plans have been placed on FileNet: Filename: 120613-00-Construction.pdf
Added On Date: September 24, 2015

Comments:

For further information, please contactDiane Evitt, Phone: (423)510- 1171, Email:diane.evitt@tn.gov.

cc: Director, Roadway Design Division
Director, Project Development
Director's Administrative Secretary, Roadway Design Division
Environmental Division
Project Manager
Choose an item.

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

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	54013-3216-04	

SEE SHEET NO. 1A FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

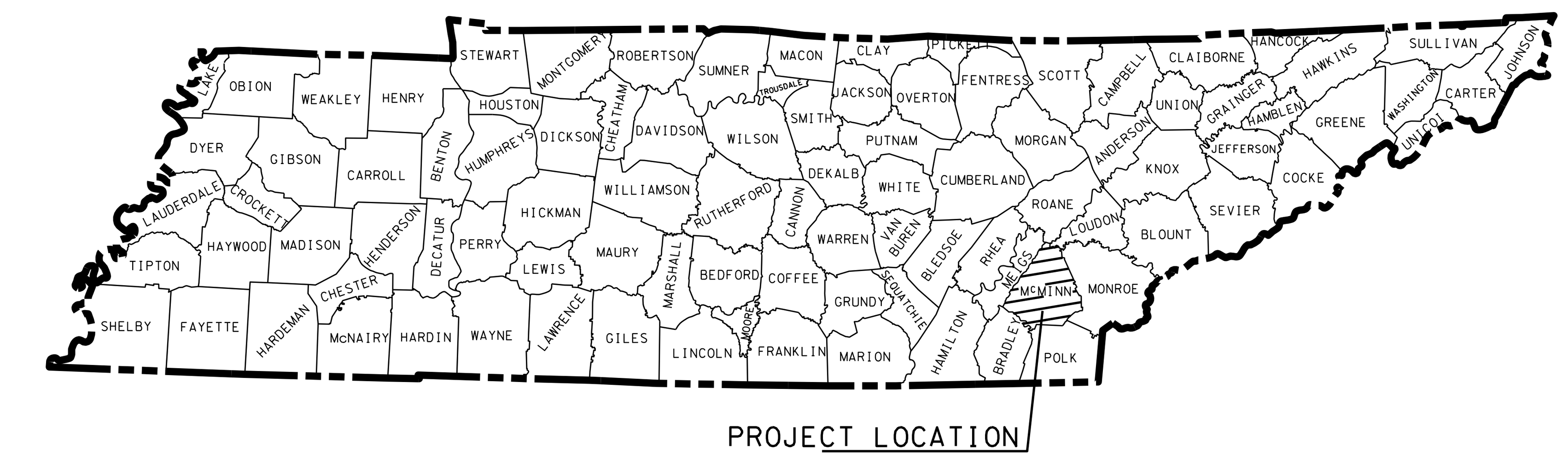
MCMINN COUNTY

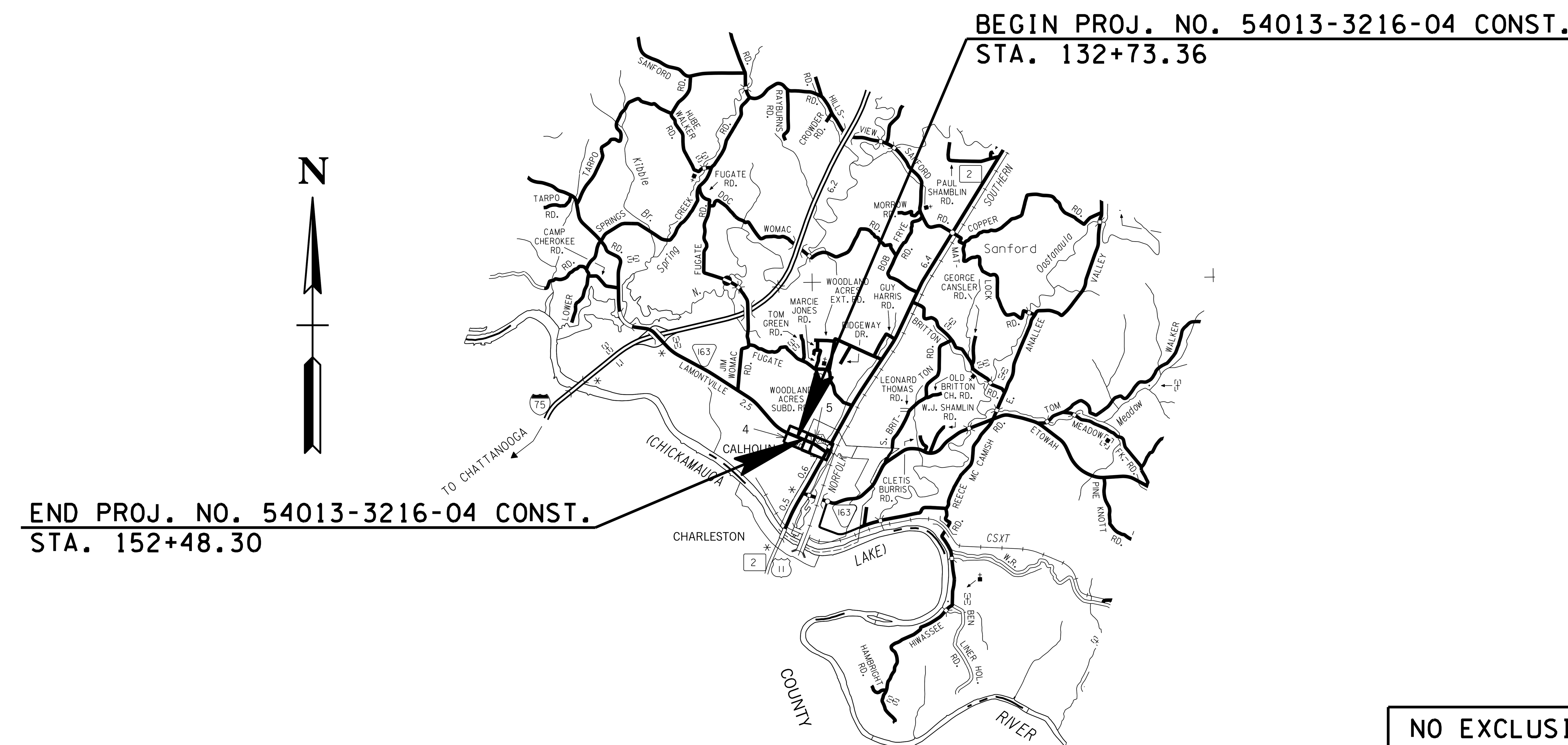
STATE INDUSTRIAL ACCESS ROAD
(STATE ROUTE 163)

SERVING RESOLUTE FOREST PRODUCTS IN CALHOUN

GRADE, DRAINS, BASE, PAVING, GURADRAIL & PAVEMENT MARKINGS

STATE HIGHWAY NO. 163 F.A.H.S. NO. XX





SCALE
0 1 2 3 MILES

NO EXCLUSIONS
NO EQUATIONS

SEALED BY
UNOFFICIAL SET
NOT FOR BIDDING

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SR-163 TRAFFIC DATA	
ADT (2015)	2,790
ADT (2035)	3,070
DHV (2035)	330
D	55 - 45
T (ADT)	23 %
T (DHV)	15 %
V	40 MPH

SR-2 TRAFFIC DATA	
AADT (2015)	5,500
ADT (2035)	6,050
DHV (2035)	725
D	55 - 45
T (ADT)	9 %
T (DHV)	6 %
V	35 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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 JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

ROADWAY LENGTH	0.374 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.374 MILES

TDOT CE MANAGER I GREGORY J. TAYLOR, P.E.

DESIGNER Jonathan Edwards CHECKED BY Diane Evitt

P.E. NO. 54013-1216-04

PIN NO. 120613.00

LATEST SURVEY DATE 9-16-14

23-SEP-2015 12:03
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

INDEX

SHEET NAME	SHEET NO
TITLE SHEET (R.O.W.)	1
TYPICAL SECTIONS AND PAVING SCHEDULE	2 - 2A
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES	3 - 3A
PRESENT LAYOUTS	4 - 5
PROPOSED LAYOUTS	4A - 5A
PROPOSED PROFILES	4B - 5B
PUBLIC SIDE ROADS AND DRIVEWAY PROFILES	6
DRAINAGE MAPS	7
CULVERT SECTIONS	8
EXISTING CONTOURS	9 - 9A
PROPOSED CONTOURS	9B - 9C
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	10, 10B – 10G
ROADWAY CROSS SECTIONS	11 - 23
SIDE ROAD CROSS SECTIONS	24 - 25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	54013-2216-04	

REVISED 9-22-15: CHANGED END R.O.W. PROJECT STA AND R.O.W. PROJECT LENGTH

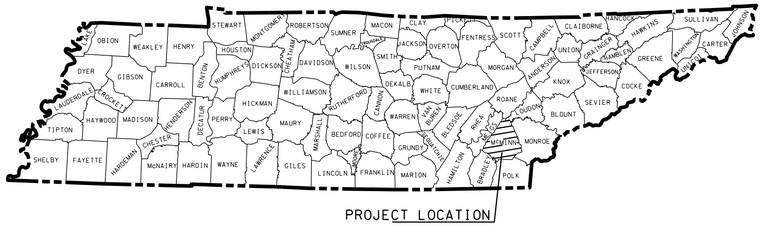
MCMINN COUNTY

STATE INDUSTRIAL ACCESS ROAD
(STATE ROUTE 163)

SERVING RESOLUTE FOREST PRODUCTS IN CALHOUN

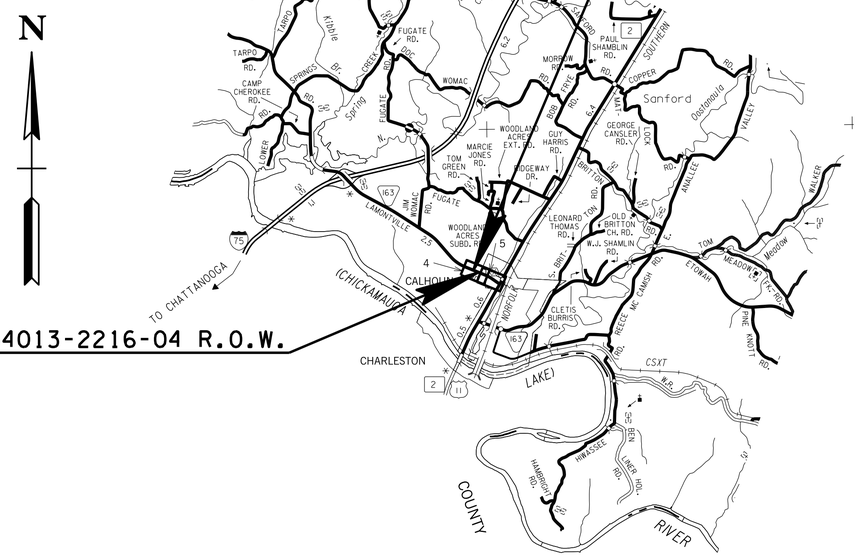
RIGHT OF WAY

STATE HIGHWAY NO. 163 F.A.H.S. NO. XX



BEGIN PROJ. NO. 54013-2216-04 R.O.W.
STA. 135+16

END PROJ. NO. 54013-2216-04 R.O.W.
STA. 139+78.72



SCALE
0 1 2 3 MILES

R.O.W. PROJECT LENGTH 0.087 MILES

UNOFFICIAL SET
NOT FOR BIDDING

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

NO EXCLUSIONS
NO EQUATIONS

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TDOT ROAD SP. SV. 2 Robert Rodgers

DESIGNER Jonathan Edwards CHECKED BY Diane Evitt

P.E. NO. 54013-1216-04

PIN NO. 120613.00

LATEST SURVEY DATE 9-16-14

23-SEP-2015 12:03
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	54013-3216-04	1A

INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVING SCHEDULE (2 SHEETS)	2A – 2A(1)
GENERAL NOTES AND SPECIAL NOTES (3 SHEETS)	2B, 2B(1),2B(2)
TABULATED QUANTITIES (2 SHEETS)	2C – 2C(1)
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES	3, 3A
PRESENT LAYOUTS (2 SHEETS)	4 - 5
PROPOSED LAYOUTS (2 SHEETS)	4A - 5A
PROPOSED PROFILES (2 SHEETS)	4B - 5B
PUBLIC SIDEROAD AND DRIVEWAY PROFILES	6
DRAINAGE MAPS	7
CULVERT SECTIONS	8
EXISTING CONTOURS (2 SHEETS)	9, 9A
FINAL CONTOURS (2 SHEETS)	9B, 9C
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	10, 10A – 10G
TRAFFIC CONTROL PLANS WITH CONSTRUCTION PHASING NOTES (5 SHEETS)	11, 11A – 11D
SIGNING AND PAVEMENT MARKING PLANS (2 SHEETS)	12, 12A
SIGN SCHEDULE SHEETS (2 SHEETS)	13, 13A
ROADWAY CROSS SECTIONS (13 SHEETS)	14 - 26
SIDE ROAD CROSS SECTIONS (2 SHEETS)	27 - 28
UTILITIES INDEX (3 SHEETS)	U1-1 thru U1-3
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1 thru S-6

NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
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-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
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-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

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
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-24A	1-06-15	24" CONCRETE ENDWALL CROSS DRAIN
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLSCONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
ROADWAY AND PAVEMENT APPURTENANCES		
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-MC-1	02-28-02	STANDARD 4" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
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-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
SAFETY APPURTENANCES AND FENCE		
S-RP-2	01-19-99	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-6	12-1-14	SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-GR31-1	12-1-14	W-BEAM GUARDRAIL
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRA-3	5-01-15	GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS
S-GRA-4		IN-LINE GUARDRAIL ANCHOR
TRAFFIC CONTROL APPURTENANCES		
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-16	12-01-14	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-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
EROSION PREVENTION AND SEDIMENT CONTROL		
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-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-48		CATCH BASIN FILTER ASSEMBLY (TYPE 8)
EC-STR-48A		CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS

TRAFFIC OPERATIONS STANDARD DRAWINGS

DWG. NO	REV.	DESCRIPTION
SIGNING APPURTENANCES		
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	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
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-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-23C	07-19-13	BREAKAWAY U-POST SIGN SUPPORTS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	54013-3216-04	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)-	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	7043
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	8092
	203-06	WATER	M.G.	536
	209-05	SEDIMENT REMOVAL	C.Y.	96
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1678
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	4186
(5)-	209-08.07	ROCK CHECK DAM PER	EACH	45
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	12
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
	209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	1
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	7405
(5)-	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	40
(9)-	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	1283
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1866
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	13
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	51
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	8
(9)-	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	207
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	789
(3)-	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	0.6
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	10000
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	38
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	41
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	13.2
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	200
	611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	1
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	1
	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	45.2
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	1739
(8)-	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	3
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	3
	706-01	GUARDRAIL REMOVED	L.F.	1944
	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	68
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	74
	712-01	TRAFFIC CONTROL	LS	1
	712-01.51	PORTABLE BARRIER RAIL DELINEATOR (DOUBLE)	EACH	23
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1900
	712-04.02	FLEXIBLE DRUMS (CHANNELIZATION)	EACH	41
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	41
	712-06	SIGNS (CONSTRUCTION)	S.F.	212
	713-11.01	"U" SECTION STEEL POSTS	LB.	268
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	833
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	79
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	102
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
	716-01.07	TEMPORARY RAISED PAVEMENT MARKER,YELLOW	EACH	103
(6)-	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	93
(7)-	716-01.23	Snwplwble Pvmt Mrkrs (Bi-Dir)(2 Color)	EACH	50
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	76
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	133
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	9
(4)-	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	5
	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	18
	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	3.0
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	190
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2.1
	717-01	MOBILIZATION	LS	1
(5)-	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	363
	740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	1176
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	147
	801-02	SEEDING (WITHOUT MULCH)	UNIT	74
(2)-	801-03	WATER (SEEDING & SODDING)	M.G.	2
	803-01	SODDING (NEW SOD)	S.Y.	8169

FOOTNOTES

-1 REFER TO SPECIAL NOTES, "GRADING" SECTION, SHEET NO 2B(2).
-2 INCLUDES 1,000 GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
-3 TO BE PLACED ON SR-163 ONLY.
-4 THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. THE SAME UNIT PRICE SHALL BE PAID FOR PREFORMED PLASTIC.
-5 SEE SUBSECTION 209.07 OF THE STANDARD SPECS. FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY ENGINEER.
-6 YELLOW
-7 CLEAR / RED
-8 SEE GUARDRAIL TABULATION BLOCK FOR QUANTITIES ON SHEET 2C.
-9 A MATERIAL TRANSFER DEVICE (MTD) IS TO BE USED ON ALL MIXES. SEE SPECIAL PROVISION 407G. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE FOR THIS BID ITEM.

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DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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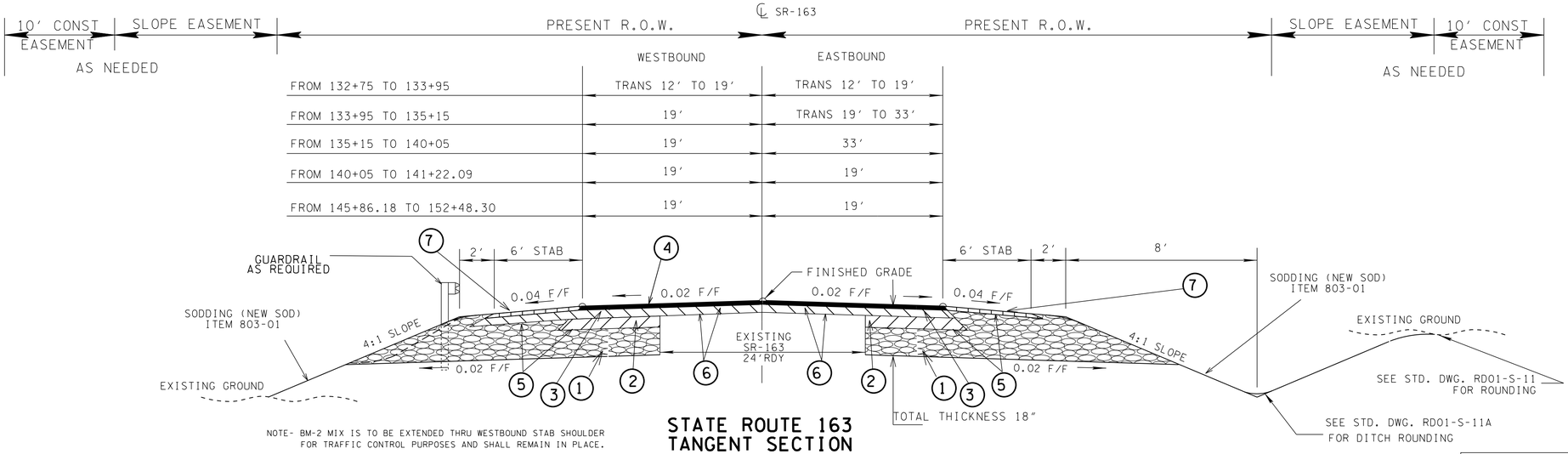
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	2
CONST.	2015	54013-3216-04	2A

REVISION 9-22-15: ADDED BM-2 MIX TO SHOULDER. SHOWED CODES ON SUPERELEVATED SECTION. ADDED COLD PLANING DETAILS.

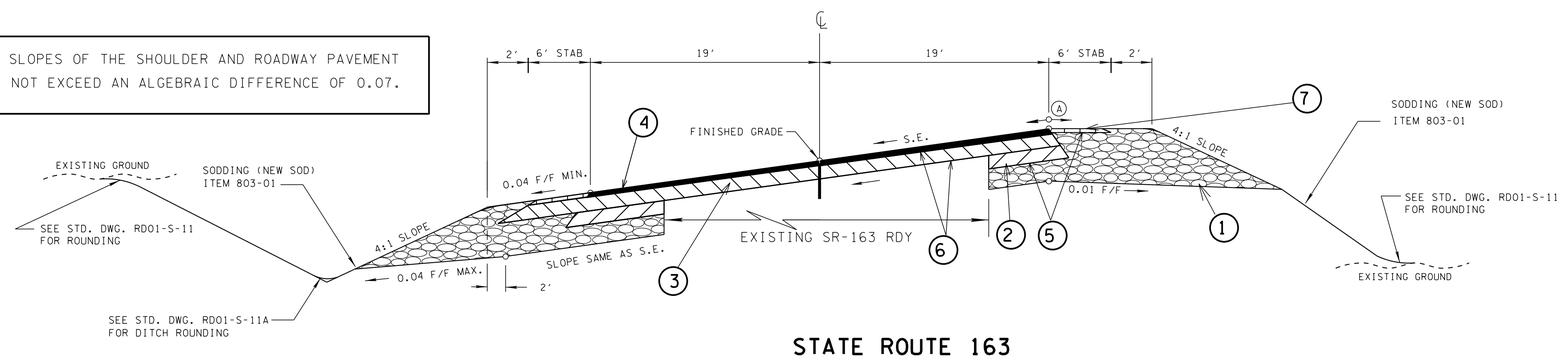


NOTE- BM-2 MIX IS TO BE EXTENDED THRU WESTBOUND STAB SHOULDER FOR TRAFFIC CONTROL PURPOSES AND SHALL REMAIN IN PLACE.

STATE ROUTE 163 TANGENT SECTION

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

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

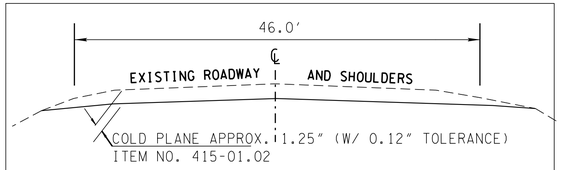


STATE ROUTE 163 SUPERELEVATED SECTION

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

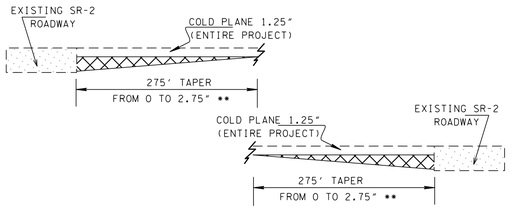
STA 141+22.09 TO 145+86.18

SE SHOWN ON PROFILES



COLD PLANING DETAILS

REMOVE EXISTING OVERLAY PRIOR TO PLACING NEW ASPHALT



** TO OBTAIN SMOOTH TRANSITION ADJ. TO SR-163 AND SR-2 (EXTRA DEPTH MILLING AREAS SHALL BE RESURFACED WITH 2.75" OF BM-2 MIX IMMEDIATELY AFTER THE AREA IS MILLED.)

COLD PLANING TAPER DETAIL

NOTE:
THE CONTRACTOR SHALL FOLLOW THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE SECTION 205-EMBANKMENTS, REGARDING EXTENDING THE FILL AREAS.

WHEN PLACING EMBANKMENT MATERIAL ON OR AGAINST EXISTING SLOPES THAT ARE STEEPER THAN 4:1, CUT BENCHES INTO THE EXISTING SLOPE WHILE BRINGING UP THE NEW EMBANKMENT MATERIALS IN LAYERS.

SR-163 ESTIMATED PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE (10" THICK) (@ 2.03 TONS/CY) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(4) ASPHALTIC CONCRETE SURFACE (1.25" THICK) (APPROX 132.5 LBS/SY) 411-01.10 ACS MIX (PG 64-22) GRADING "D"	(7) ASPHALTIC CONCRETE SURFACE (SHOULDER) GRADING "E" 1.5" THICK (APPROX. 154.5 LBS/SQ YD) 411-01.07 ASPHALT CONCRETE MIX (PG 64-22) (ACS) GRADING "E"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) (4" THICK) (APPROX. 460 LBS/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG-64-22) (BPMB-HM) GRADING "A"	(5) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.35 LBS/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS/S.Y.	
(3) BITUMINOUS BINDER GRADING "BM-2" 2.75" THICK (APPROX 310.75 LBS/SY) 307-01.08 ASPHALT CONCRETE MIX (64-22) (BPMP-HM) GRADING "B-M2"	(6) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y. (NEW SURFACE) @ 0.10 GAL./S.Y. (MILLED SURFACE)	

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TYPICAL SECTIONS

23-SEP-2015 12:05
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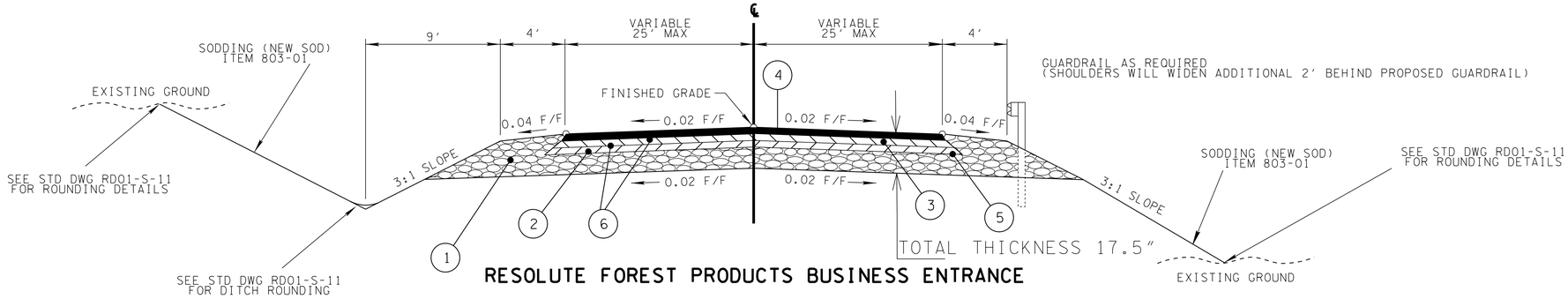
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	2A
CONST	2015	54013-3216-04	2A(1)

REVISION 9-22-15: ADDED PAVEMENT SCHEDULE.
ADDED TOTAL THICKNESS TO THE "RESOLUTE FOREST PRODUCTS BUSINESS ENTRANCE GATE 4" TYPICAL. CHANGED CONC DITCH DETAIL.



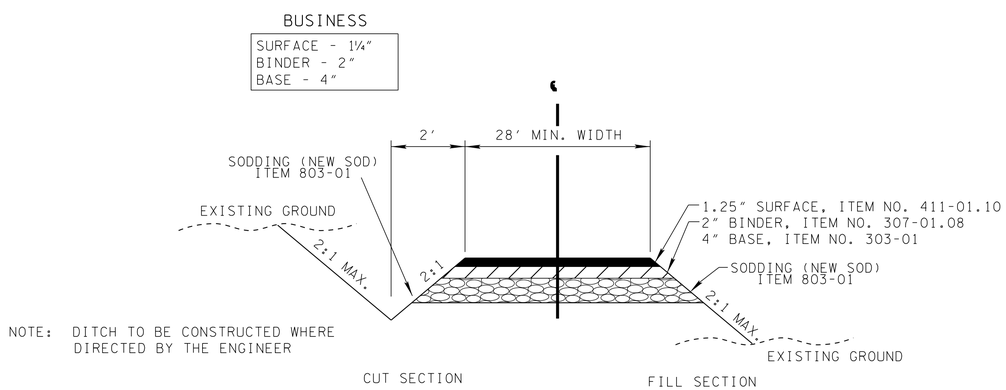
RESOLUTE FOREST PRODUCTS BUSINESS ENTRANCE GATE 4

TANGENT SECTION

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

STA. 300+33 TO STA. 301+43

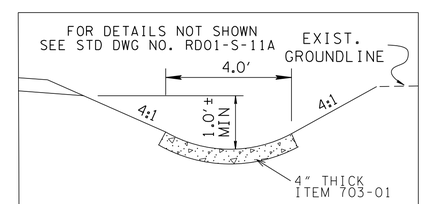
RESOLUTE FOREST PRODUCTS BUS. ENT. PROPOSED PAVEMENT SCHEDULE	
(1) MINERAL AGGREGATE BASE (10" THICK) (@ 2.03 TONS/CY) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(4) ASPHALTIC CONCRETE SURFACE (1.25" THICK) (APPROX 132.5 LBS/SY) 411-01.10 ACS MIX (PG 64-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) (4" THICK) (APPROX. 460 LBS/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG-64-22) (BPMB-HM) GRADING "A"	(5) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.35 LBS/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS/S.Y.
(3) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX 254.25 LBS/SY) 307-01.08 ASPHALT CONCRETE MIX (64-22) (BPMP-HM) GRADING "B-M2"	(6) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y. (NEW SURFACE) @ 0.10 GAL./S.Y. (MILLED SURFACE)



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO RESOLUTE FOREST BUSINESS ENTRANCE RT STA 143+09



PROP. CONCRETE DITCH DETAIL

RT. STA. 132+73.36 TO STA. 133+88.79
LT. STA. 147+66.16 TO STA. 151+05.00
RT. STA. 147+75.00 TO STA. 152+22.82

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	2B

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF 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.

SEEDING AND SODDING

(3) 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.

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

GUARDRAIL

(5) 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.

(6) 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.

DRAINAGE

(7) 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.

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

(9) 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).

(10) 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.

(11) 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

(12) 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.

(13) 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.

(14) 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.

(15) 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.

(16) 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

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

MISCELLANEOUS

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

(19) 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

PAVEMENT MARKINGS - TEMPORARY PAVEMENT MARKING

(20) 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.

FINAL PAVEMENT MARKING

(21) 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.

PAVEMENT - PAVING

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

SIGNING

(23) 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.

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

(25) 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.

(26) 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.

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

(28) 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.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(29) 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.

(30) 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.

(31) 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.

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

(33) 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.

(34) 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.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	2B(1)

GENERAL NOTES - CONTINUED

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 ROOADWAY 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.

INSPECTION, MAINTENANCE, REPAIR

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

(16) 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.

(17) 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.

(18) 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.

(19) 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.

(20) 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.

(21) 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.

(22) 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

(23) 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

(24) 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.

(25) 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, ROOADWAY 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.

(26) 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.

(27) 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.

(28) 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 ROOADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(29) 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.

(30) 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.

(31) 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.

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SHEET 2 OF 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	2B(2)

GENERAL NOTES - CONTINUED

LITTER, DEBRIS, WASTE, PETROLEUM

(1) 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.

(2) 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) 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.

(3) 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.

(4) WHEN PLACING EMBANKMENT MATERIAL ON OR AGAINST EXISTING SLOPES THAT ARE STEEPER THAT 4:1, CUT BENCHES INTO THE EXISTING SLOPE WHILE BRINGING UP THE NEW EMBANKMENT MATERIAL IN LAYERS.

MISCELLANEOUS

(5) AN OPTIONAL ROAD AND DRAINAGE BORROW AREA IS AVAILABLE NEAR THE SIA PROJECT AT THE DISCRETION OF THE CONTRACTOR. ALL REQUIREMENTS OF THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ALL PERMITTING REQUIREMENTS AND PROVISIONS OF THE TDOT WASTE AND BORROW MANUAL SHALL APPLY TO ALL WASTE AND BORROW AREAS REGARDLESS OF LOCATION. CONTACT INFORMATION FOR THIS OPTIONAL BORROW AVAILABILITY IS: MR. ALAN MYNATT, RESOLUTE FOREST PRODUCTS AT 423-336-7580.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	54013-3216-04	2C

ESTIMATED GRADING QUANTITIES

LOCATION	ROAD & DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
SR 163 - 132+73.36 TO 152+38.40	6583	8092	0		12113
RESOLUTE FOREST PLANT ENT	398				
EPSC ITEMS	62			62	
TOTALS	**7043**	**8092**	**0**	**62**	**12113**

EXC (UNCL) SHR 30%
BORROW EXC (UNCL) SHR 20%

PAVEMENT QUANTITIES

LOCATION	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)	411-01.07 (TON)
MAINLINE	6699.5	1061.4	1714.9	11.1	43.8	7.0	639.7	207.4
R.F.P. ENTRANCE	689.9	221.7	121.7	1.5	5.8	0.6	63.2	0.0
CREDIT UNION ENTRANCE	15.9	0.0	29.0	0.4	1.5	0.4	86.3	0.0
TOTALS	**7405**	**1283**	**1866**	**13**	**51**	**8**	**789**	**207**

CROSS DRAIN TABULATION

STATION	RCP CLASS III L.F. 24"	RCP CLASS III L.F. 48"	SKEW	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	REMARKS
139+99.91		41	59° 44' 55" LT	A	D-PB-1, D-PE-1	A	D-PB-1, D-PE-1	SEE "CROSS DRAIN ENDWALLS" TAB BLOCK FOR ENDWALL QUANTITIES
147+20.71	38		59° 02' 59" LT	U	D-PB-1, DPE-24A, D-PE-24B	SEW	D-PB-1, D-PE-24A, D-SEW-1A	
TOTALS	**38**	**41**						

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	SINGLE TYPE 2 GUARDRAIL 705-02.02 (L.F.)	GUARDRAIL TERMINAL IN-LINE 705-04.05 (EACH)	TYPE 38 TERMINAL 705-04.07 (EACH)	GUARDRAIL REMOVED 706-01 (L.F.)	REMARKS
4A	SR-163/RFP Entrance		X	133+40.20	301+42.68	663.00	2	1		Begins on S.R. 163, Ends on RFP Entrance.
4A	SR-163/RFP Entrance		X	301+42.81	141+75.59	163.00	1	1		Begins on RFP Entrance, Ends on S.R. 163.
4A-5A	SR-163	X		133+37.74	143+04.7	913.00	0	1		Begins and Ends on S.R. 163.
4A	SR-163/RFP Entrance		X	133+51.68	301+42.68				718.00	Begins on S.R. 163, Ends on RFP Entrance.
4A-5A	RFP Entrance/SR-163		X	301+42.81	142+36.43				279.00	Begins on RFP Entrance, Ends on S.R. 163.
4A-5A	SR-163	X		133+37.74	142+84.74				947.00	Begins and Ends on S.R. 163.
TOTALS						**1739.00**	**3**	**3**	**1944.00**	

CROSS DRAIN ENDWALLS*

LOCATION	CROSS DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	SAFETY ENDWALLS CLASS B RIP-RAP 709-05.08 (TON)	SAFETY ENDWALLS CLASS A CONC. 611-07.01 (C.Y.)	SAFETY ENDWALLS REINF. STEEL 611-07.02 (LB.)	PROTECTED 24 IN. ENDWALL 4:1 611-07.58 (EA.)	PROTECTED 24 IN ENDWALL SIDEDRAIN 611-07.32 (EA.)
SR-163	139+45	93.4 RT	"A"	D-PE-1	90	74	6.6	100		
SR-163	140+39	67.2 LT	"A"	D-PE-1	90	0	6.6	100		
SR-163	146+98	37.8 RT	"U"	D-PE-24A, D-PE-24B	90	0			1	
SR-163	147+50	37.8 LT	"SEW"	D-PE-24A, D-SEW-1A	90	0				1
TOTALS						**74**	**13.2**	**200**	**1**	**1**

*INCLUDES ALL COST OF REMOVAL OF EXISTING HEADWALL AND RECONNECTION TO EXISTING PIPE AS DIRECTED BY TDOT PROJECT SUPERVISOR.

SPECIAL DITCHES

ROAD	RT/LT	STATION FROM	STATION TO	SLOPE FORE (H/V)	SLOPE WIDTH (FT.)	SLOPE BACK (H/V)	CEM. CONC. WITH PAVING C.Y. 703-01	DETAIL NO.	TYPE
SR-163	RT	132+73.36	133+88.79	4:1	4	4:1	5.7		
SR-163	LT	147+66.16	151+05.00	4:1	4	4:1	16.73		
SR-163	RT	147+75.00	152+22.82	4:1	4	4:1	22.74		
TOTAL QUANTITY							45.17		

RAMP AND SIDE DRAIN TABULATION

STATION	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT.	END TREATMENT TYPE	END TREATMENT DRAWING NO.	REMARKS
140+19.12		X	RESOLUTE FOREST PRODUCTS BUSINESS ENTRANCE	45	SEE CROSS DRAIN TABULATION BLOCK			
143+09		X	BUSINESS ENTRANCE	28	NO SIDE DRAIN REQUIRED			

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SHEET 1 OF 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	54013-3216-04	2C(1)

TRAFFIC CONTROL QUANTITIES

PHASE NO.	712-01.51 PORTABLE BARRIER RAIL DEL. (DBL.)	712-02.02 INTERCONNECTED PORTABLE BARRIER RAIL L.F	712-04.02 FLEXIBLE DRUMS (CHANNELIZATION) EACH	712-05.03 WARNING LIGHTS (TYPE C) S.F.	716-01.07 TEMPORARY RAISED PAVEMENT MARKERS EACH
PHASE I	23	1600	8	8	50
PHASE 2	*	300	33	33	53
TOTAL	**23**	**1900**	**41**	**41**	**103**

*TO BE USED FROM PHASE 1.

EPSC QUANTITIES

STAGE	203-01 RD. AND DRG. EXC. UNCL.	209-05 SED. RMVL.	209-08.02 SFB.	209-08.03 SF.	209-08.07 ROCK CK. DAM	209-08.08 ENH. RK. CK. DAM	209-40.33 TYPE D CB PROTECT	209-40.48 TYPE 8 CB FILTER ASSEM	303-10.01 MIN. AG. 57	709-05.06 MACH. RIP RAP A-1	740-10.03 GEOTX. TYPE III	740-11.03 TEMP. SED. TUBE 18IN.	801-01.07 TEMP SEEDING W/MUL.	801-02 SEEDING WO/MUL.	801-03 WATER SEED & SOD.
	PAY ITEMS														
	(C.Y.)	(C.Y.)	(L.F.)	(L.F.)	(EACH)	(EACH)	(EACH)	(EACH)	(TONS)	(TON)	(S.Y.)	(L.F.)	(UNITS)	(UNITS)	(M.G.)
1	41		0	2917	23	3			8	45	108	0	74	74	1
2	21		1678	1269	19	6	1		32	23	256	1176	73		
3	0		0	0	3	3		1	0	0	0	0	0		1
ALL		96													
TOTALS	**62**	**96**	**1678**	**4186**	**45**	**12**	**1**	**1**	**40**	**68**	**363**	**1176**	**147**	**74**	**2**

SEE SUBSECTION 209.07 OF THE STANDARD SPECS. FOR MAINTENANCE REPLACEMENT.
ALL QUANTITIES ARE TO BE USED AS DIRECTED BY ENGINEER.

TABULATED SIGNS (CONSTRUCTION) 712-06

QUANTITY	M.U.T.C.D. NO.	DESCRIPTION	SIZE IN X IN		ITEM NO. 712-06 S.F.
3	G20-2	END ROAD WORK	36	18	14
3	W20-1	ROAD WORK 1/2 MILE	36	36	27
3	W20-1	ROAD WORK 1500 FT	36	36	27
3	W20-1	ROAD WORK 1000 FT	36	36	27
3	W20-1	ROAD WORK 500 FT	36	36	27
2	W20-7a	FLAGGER	36	36	18
2	W3-1	STOP AHEAD	36	36	18
2	W8-11	UNEVEN LANES	36	36	18
2	W21-2	FRESH OIL	36	36	18
1	W21-5b	RIGHT SHOULDER CLOSED 1500 FT	36	36	9
1	W21-5a	RIGHT SHOULDER CLOSED	36	36	9
		TOTAL			212

SEE FIGURE 6F-1 OF FIGURES SHOWN IN CURRENT M.U.T.C.D. THIS CONSTRUCTION SIGNING IS TO BE CONSTRUCTED AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

WATER 203-06

LOCATION	CY	MG
EMBANKMENT	12113	31
BASE MATERIAL	3880	59
TOTALS		**536**

PAVEMENT MARKINGS

SHEET	716-01.21 (EA) SNOWPLOWABLE MARKERS 1 COLOR (BI-DIRECTIONAL) (YELLOW) EA	716-01.23 (EA) SNOWPLOWABLE MARKERS 1 COLOR (BI-DIRECTIONAL) (CLEAR/RED) EA	716-02.04 PLAS PVMT MARK CHANNELIZATION STRIPING SY	716-02.05 PLAS PVMT MARK STOP LINE LF	716-02.06 PLAS PVMT MARK (TURN LANE ARROW) EA	716-04.05 PLAS PVMT MARK (STRAIGHT ARROW) EA	716-04.12 PLAS PVMT MARK YIELD LINE SF	716-04.14 PLAS PVMT MARK (LANE RED. ARROW) EA	ITEM NO. 716-13.01 (LIN MI.), 4" SPRAY THERMO. D.S.Y.L.	D.W.L.	S.S.W.L.	S.S.Y.L.	S.B.Y.L.
12	48	39	38	63	4	4	0	1	0.508	0.026	0.545	0.000	0.000
12A	45	11	38	70	5	1	18	0	0.342	0.029	0.463	0.130	0.033
TOTALS	**93**	**50**	**76**	**133**	**9**	**5**	**18**	**1**	**2.076**				

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SHEET 2 OF 2

STATE OF TENNESSEE
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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	3
CONST	2015	54013-3216-04	3

UTILITY OWNERS

ELECTRIC : ATHENS UTILITY BOARD
MR. ERIC NEWBERRY
(PRIMARY ADDRESS) 100 ENGLEWOOD ROAD ATHENS, TN 37303
(SECONDARY ADDRESS) PO BOX 689 ATHENS TN 37303
PHONE (423) 745-4501

CATV : CHARTER COMMUNICATIONS
MR. JEFF COOK
(PRIMARY ADDRESS) 1235 KING STREET SE
CLEVELAND, TN 37323-0656 ALCOA OFFICE: (865) 273-2773
PHONE (423) 790-1508
(EMAIL ADDRESS) JEFF.COOK@CHARTERCOM.COM

GAS : COLONIAL PIPELINE COMPANY
MR. KEVIN RALEY
(PRIMARY ADDRESS) 391 SCRUGGS ROAD RINGGOLD, GA 30736
PHONE: (706) 891-7584
(EMAIL ADDRESS) KRALEY@COLPIPE.COM

TELEPHONE : BELLSOUTH DBA AT&T
MR. TIM MANLEY
(PRIMARY ADDRESS) 300 E MARTIN LUTHER KING BOULEVARD, 5TH FLOOR
CHATTANOOGA, TN 37403
PHONE(423) 752-9144
(EMAIL ADDRESS) TM4644@ATT.COM

WATER : ATHENS UTILITY BOARD
MR. ERIC NEWBERRY
(PRIMARY ADDRESS) 100 ENGLEWOOD ROAD
ATHENS, TN 37303
PHONE(423) 745-4501

WATER : CALHOUN CHARLESTON UTILITY DISTRICT
MR. MICHAEL LINER
(PRIMARY ADDRESS) PO BOX 93
CALHOUN, TN 37309
PHONE(423) 336-3571
(EMAIL ADDRESS) MANDYCCUD@BELLSOUTH.NET

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 AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL DESIGN OFFICE, ARE 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.

DISTURBED AREA	
IN BETWEEN SLOPE LINES	4.0 (AC)
15' WIDE STRIP (OUTSIDE SLOPE LINES)	2.0 (AC)
TOTAL DISTURBED AREA	6.0 (AC)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT ACRES		
		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~~	JIMMY SINGH	121	015.00	19D	383	4.280		4.280				~~4.280~~				
~~2~~	RESOLUTE FOREST PRODUCTS US INC.	121	007.00	9C	99		8.040	8.040					~~8.040~~			
3	RESOLUTE FOREST PRODUCTS US INC.	121	005.00	19D	383		9.320	9.320					9.320	784		
4	RESOLUTE FOREST PRODUCTS US INC.	121	004.00	7X	881		3.850	3.850					3.850	1345	916 S.F.	0.109
~~5~~	RESOLUTE FOREST PRODUCTS US INC.	121	006.00	11M	163	14.530		14.530				14.530				
~~6~~	FIRST BAPTIST CHURCH OF CALHOUN	121	009.00	11M	163		9.020	9.020					9.020			
~~7~~	RESOLUTE FOREST PRODUCTS US INC.	121	008.00	9C	99		2.110	2.110					2.110			
8	RESOLUTE FOREST PRODUCTS US INC.	121	022.00	9C	99		185.500	185.500					185.500	907		

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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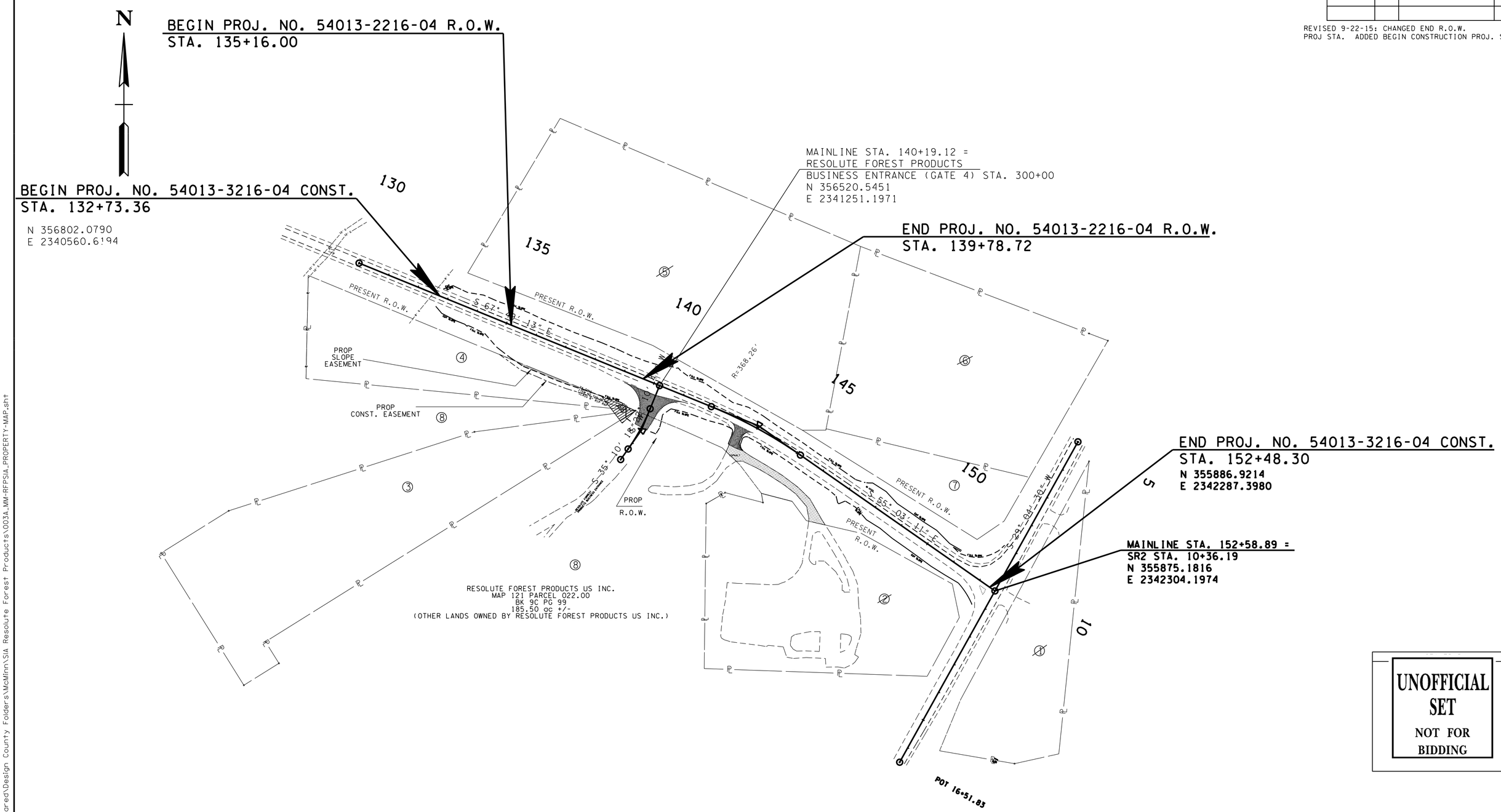
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	3A
CONST	2015	54013-3216-04	3A

REVISED 9-22-15: CHANGED END R.O.W.
PROJ STA. ADDED BEGIN CONSTRUCTION PROJ. STA.



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.130+00 TO STA.152+89

SCALE: 1"=150'

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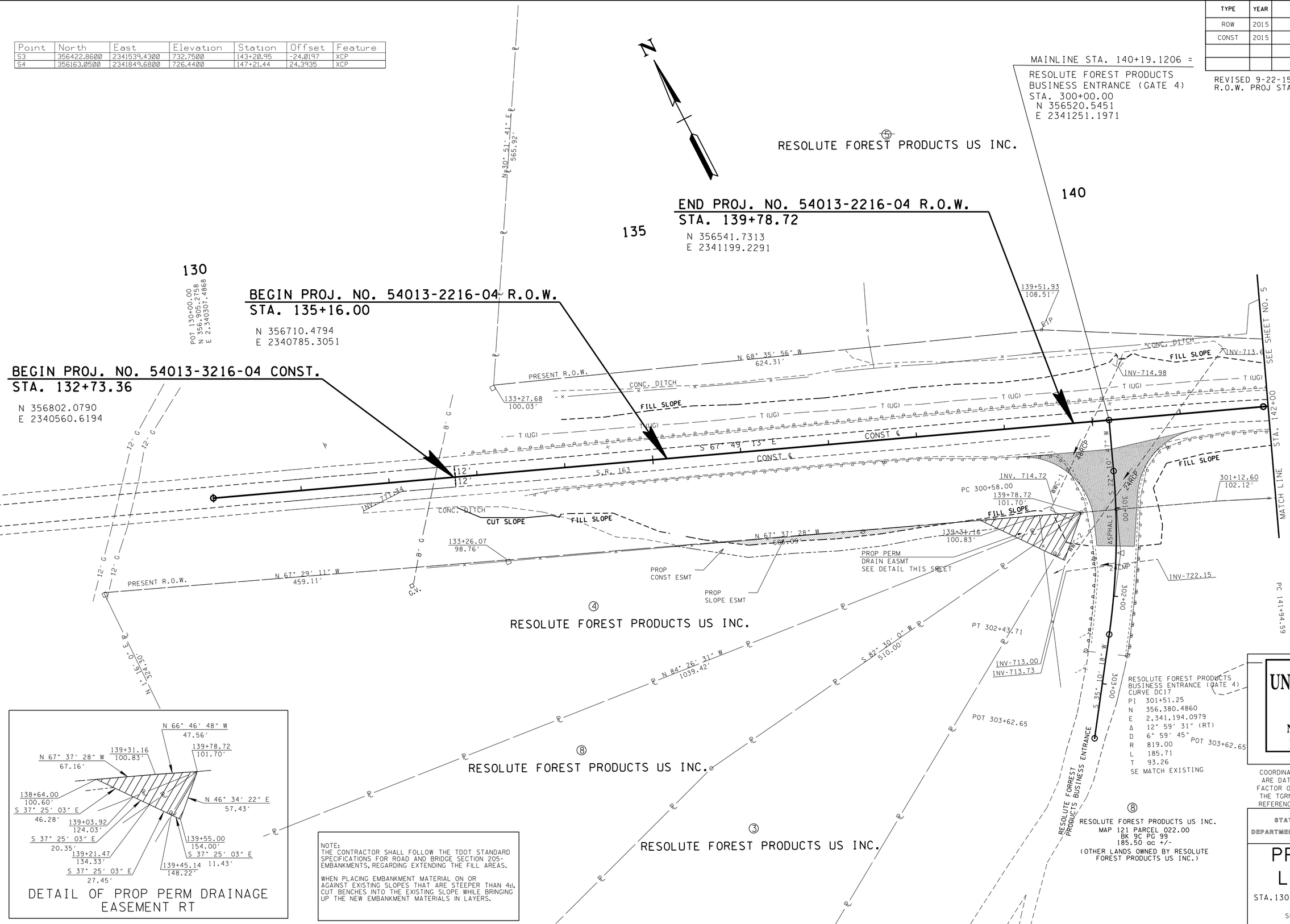
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	4
CONST	2015	54013-3216-04	4

REVISED 9-22-15: CHANGED END R.O.W. PROJ STA.

Point	North	East	Elevation	Station	Offset	Feature
S3	356422.8600	2341539.4300	732.7500	143+20.95	-24.0197	XCP
S4	356163.0500	2341849.6800	726.4400	147+21.44	24.3935	XCP



NOTE:
THE CONTRACTOR SHALL FOLLOW THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE SECTION 205-EMBANKMENTS, REGARDING EXTENDING THE FILL AREAS.

WHEN PLACING EMBANKMENT MATERIAL ON OR AGAINST EXISTING SLOPES THAT ARE STEEPER THAN 4:1, CUT BENCHES INTO THE EXISTING SLOPE WHILE BRINGING UP THE NEW EMBANKMENT MATERIALS IN LAYERS.

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.130+00 TO STA.142+00

SCALE: 1"=50'

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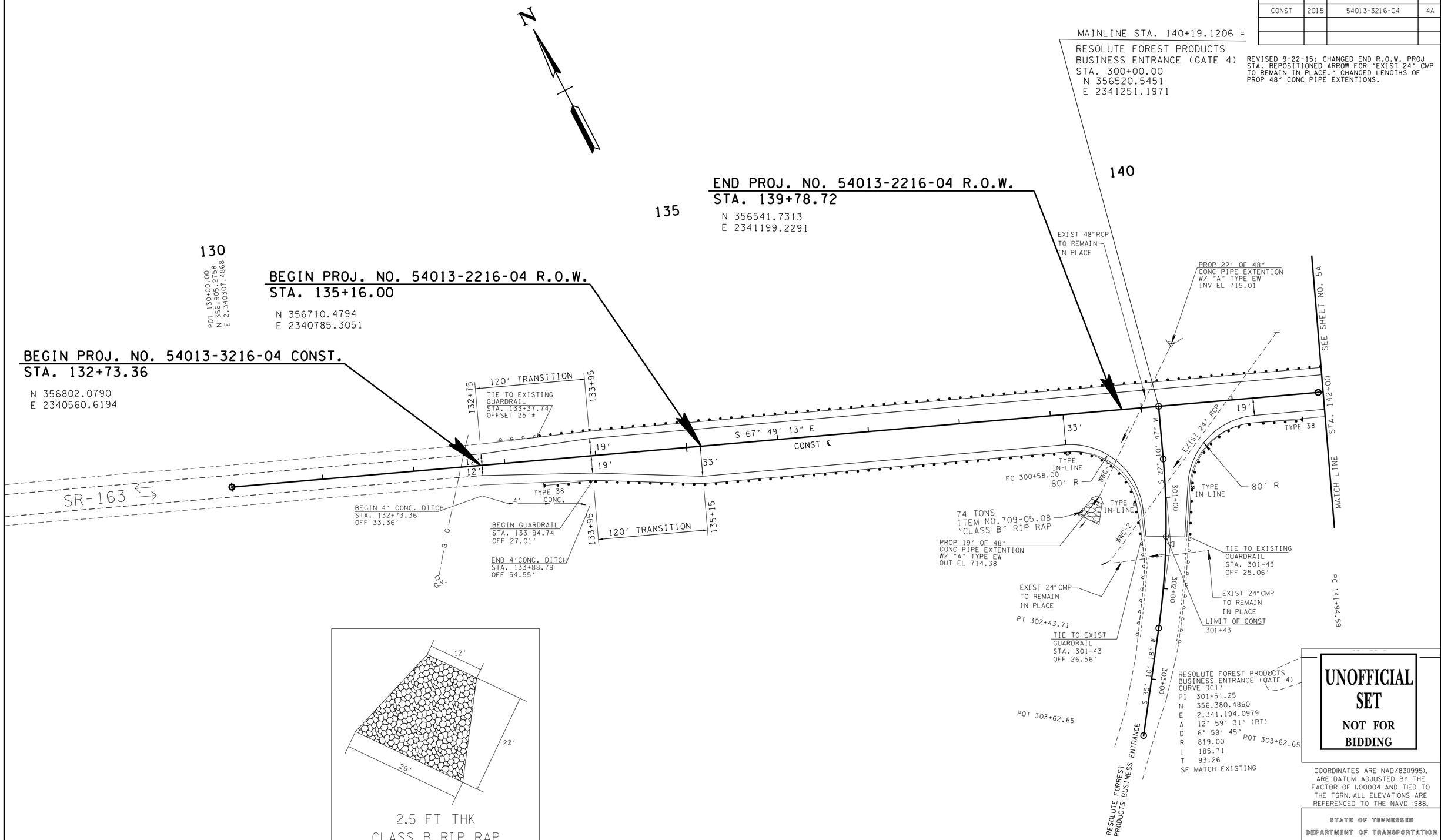
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	4A
CONST	2015	54013-3216-04	4A

REVISED 9-22-15: CHANGED END R.O.W. PROJ STA. REPOSITIONED ARROW FOR "EXIST 24" CMP TO REMAIN IN PLACE." CHANGED LENGTHS OF PROP 48" CONC PIPE EXTENTIONS.



NOTE:
THE CONTRACTOR SHALL FOLLOW THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE SECTION 205-EMBANKMENTS, REGARDING EXTENDING THE FILL AREAS.

WHEN PLACING EMBANKMENT MATERIAL ON OR AGAINST EXISTING SLOPES THAT ARE STEEPER THAN 4:1, CUT BENCHES INTO THE EXISTING SLOPE WHILE BRINGING UP THE NEW EMBANKMENT MATERIALS IN LAYERS.

UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.130+00 TO STA.142+00

SCALE: 1"=50'

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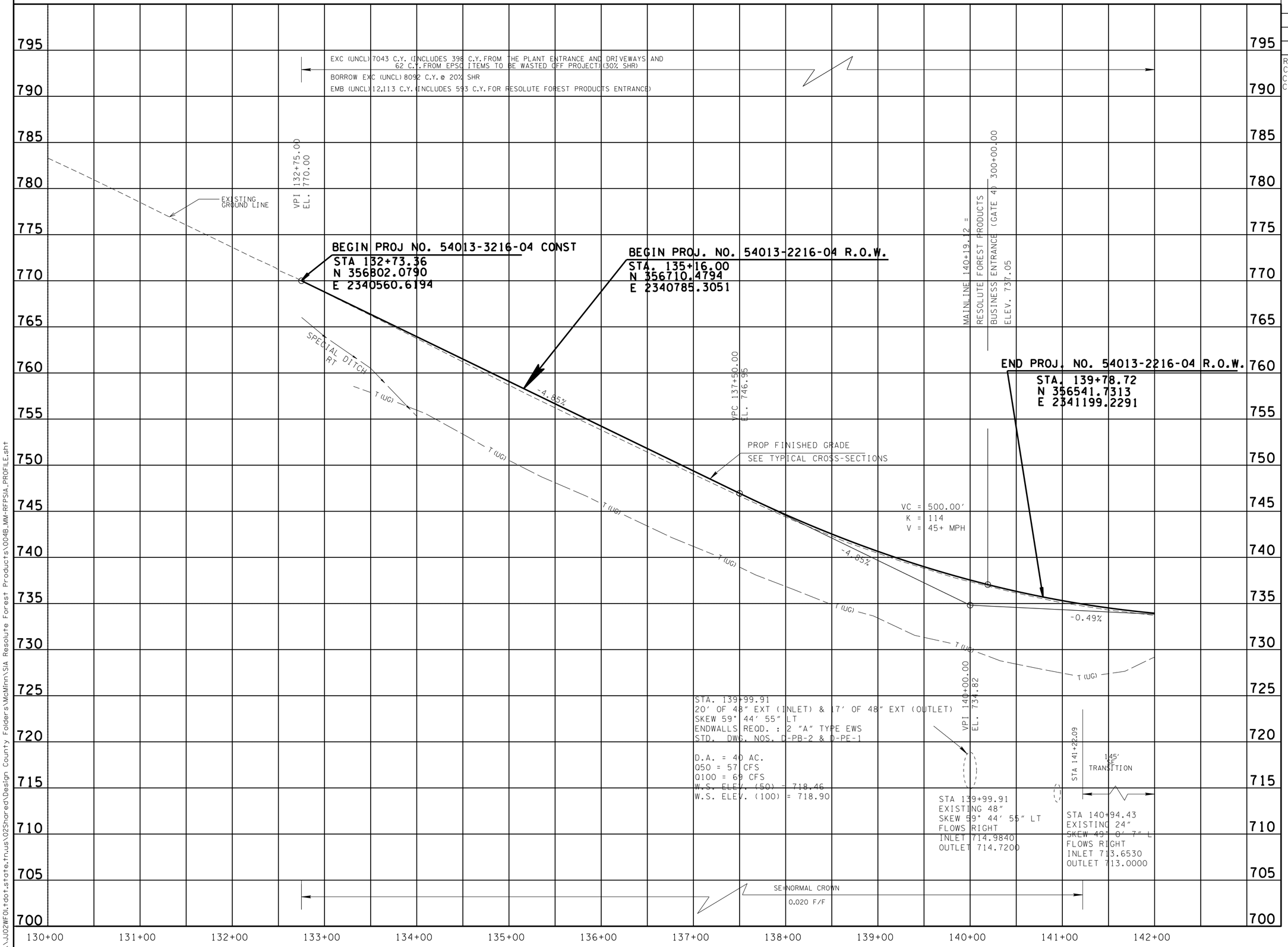
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	4B
CONST	2015	54013-3216-04	4B

REVISED 9-22-15:
CHANGED END R.O.W. PROJ STA.
CHANGED EXCAVATION QUANTITIES.
CHANGED 48" CONC PIPE EXT LENGTHS.



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.130+00 TO STA.142+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	5
CONST	2015	54013-3216-04	5

SR-163
CURVE DC12
PI 143+54.80
N 356,393.8229
E 2,341,562.0352
N 356,393.8229
E 2,341,562.0352
Δ 12° 46′ 02″ (RT)
D 4° 00′ 04″
R 1,432.00
L 319.09
T 160.21
SE 0.047 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 145′

POT 5+00.00
N 356,343.8000
E 2,342,564.7600

REVISED 9-22-15: ADDED P/T/CTV POLES RT STA 145+20± & 148+85±. LABELED EXISTING ISLAND TO BE REMOVED.

FIRST BAPTIST CHURCH OF CALHOUN

RESOLUTE FOREST PRODUCTS US INC.

JIMMY SINGH

END PROJ. NO. 54013-3216-04 CONST.
STA. 152+48.30
N 355886.9214
E 2342287.3980

MATCH LINE STA. 142+00 SEE SHEET NO. 4

CONST ℄

S 55° 03′ 11″ E

S 29° 04′ 30″ W

CUT SLOPE

FILL SLOPE

CONC. DITCH

PRESENT R.O.W.

BOX CULVERT 4-15′X6′

EXISTING ISLAND TO BE REMOVED (COST TO BE INCLUDED IN 203-01)

1-S-BRICK

1-S-METAL

RESOLUTE FOREST PRODUCTS US INC.
MAP 121 PARCEL 022.00
BK 9C PG 99
185.50 ac +/-
(OTHER LANDS OWNED BY RESOLUTE FOREST PRODUCTS US INC.)

NOTE:
THE CONTRACTOR SHALL FOLLOW THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE SECTION 205-EMBANKMENTS, REGARDING EXTENDING THE FILL AREAS.

WHEN PLACING EMBANKMENT MATERIAL ON OR AGAINST EXISTING SLOPES THAT ARE STEEPER THAN 4:1, CUT BENCHES INTO THE EXISTING SLOPE WHILE BRINGING UP THE NEW EMBANKMENT MATERIALS IN LAYERS.

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.142+00 TO STA.152+58

SCALE: 1"=50′

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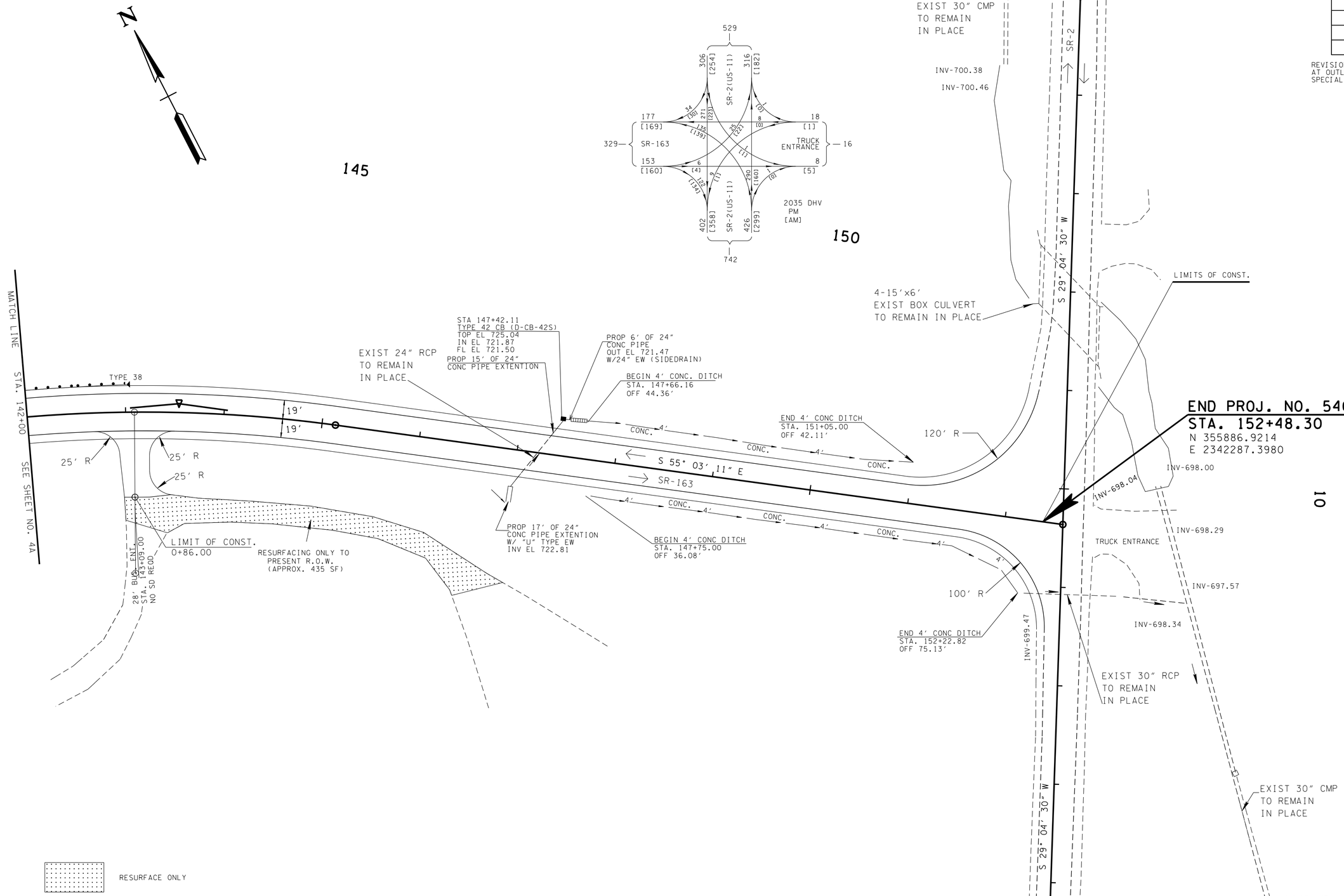
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	5A
CONST	2015	54013-3216-04	5A

REVISION 9-22-15: CHANGED PROP DRAINAGE SYSTEM AT OUTLET OF 24"CONC PIPE. END STA OF CHANGED SPECIAL DITCH LEFT. ADDED LIMITS OF CONST.



RESURFACE ONLY

NOTE:
THE CONTRACTOR SHALL FOLLOW THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE SECTION 205-EMBANKMENTS, REGARDING EXTENDING THE FILL AREAS.

WHEN PLACING EMBANKMENT MATERIAL ON OR AGAINST EXISTING SLOPES THAT ARE STEEPER THAN 4:1, CUT BENCHES INTO THE EXISTING SLOPE WHILE BRINGING UP THE NEW EMBANKMENT MATERIALS IN LAYERS.

UNOFFICIAL SET
NOT FOR BIDDING

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

STA.142+08 TO STA.152+58

SCALE: 1"=50'

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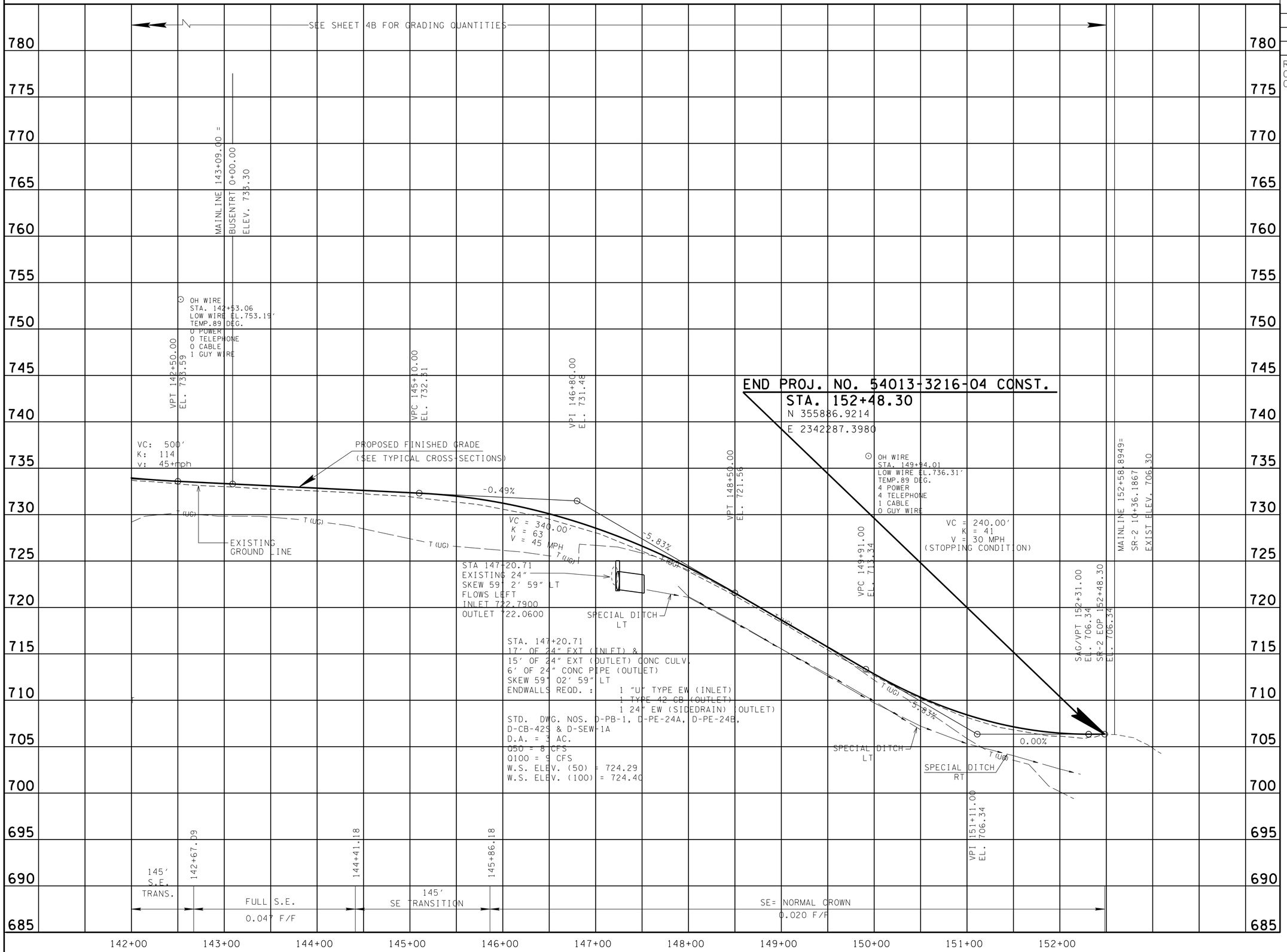
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	5B
CONST	2015	54013-3216-04	5B

REVISED 9-22-15: ADDED PROP CROSSDRAIN DRAINAGE DATA FOR CULV AT STA. 147+20.71.



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.142+00 TO STA.152+89
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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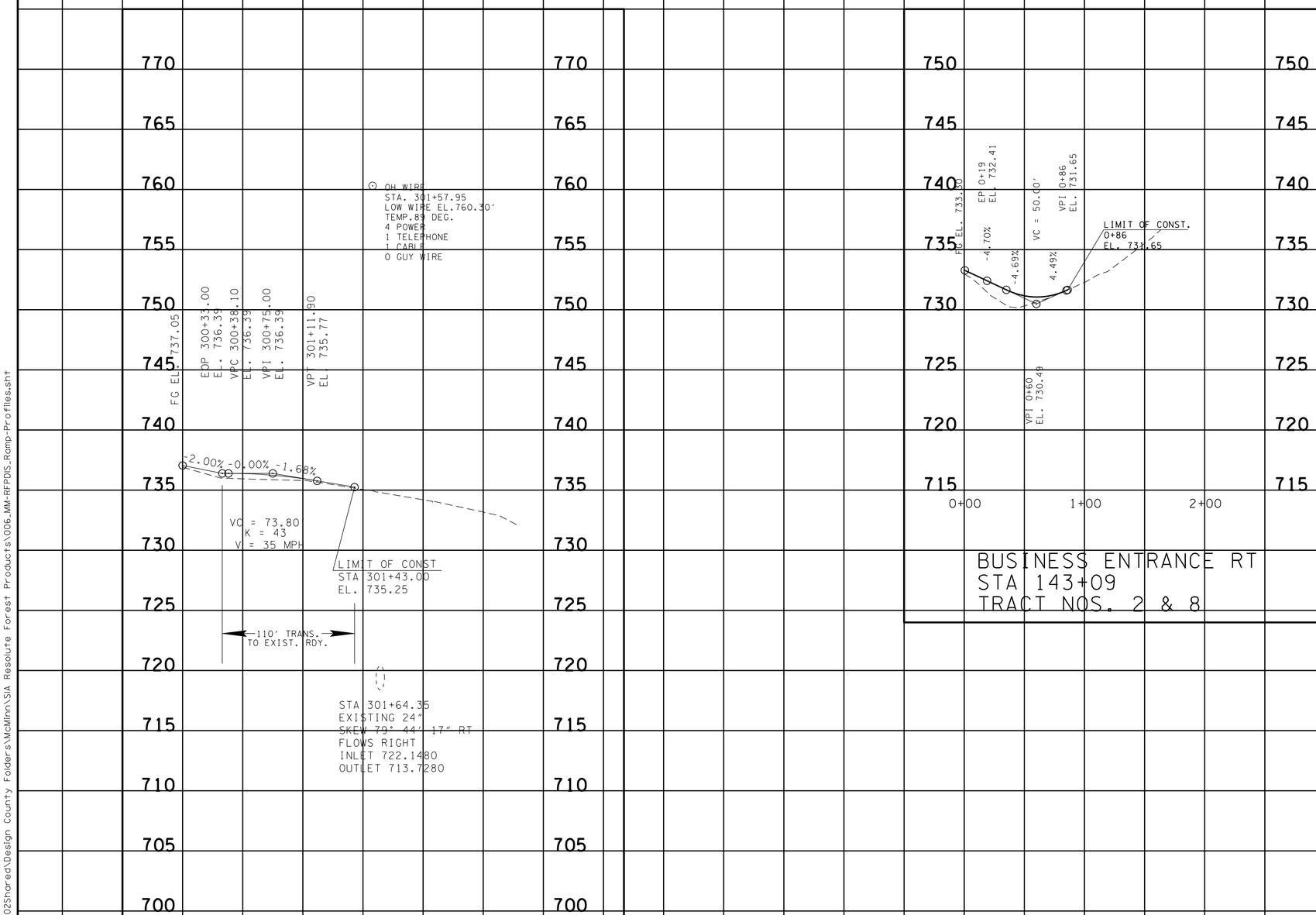
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	6
CONST	2015	54013-3216-04	6



RESOLUTE FOREST PRODUCTS
BUSINESS ENTRANCE (GATE 4)
STA 300+00 = SR-136 STA 140+19.12
TRACT NOS. 3 & 8

BUSINESS ENTRANCE RT
STA 143+09
TRACT NOS. 2 & 8

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PUBLIC SIDE RD & DRIVEWAY PROFILES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

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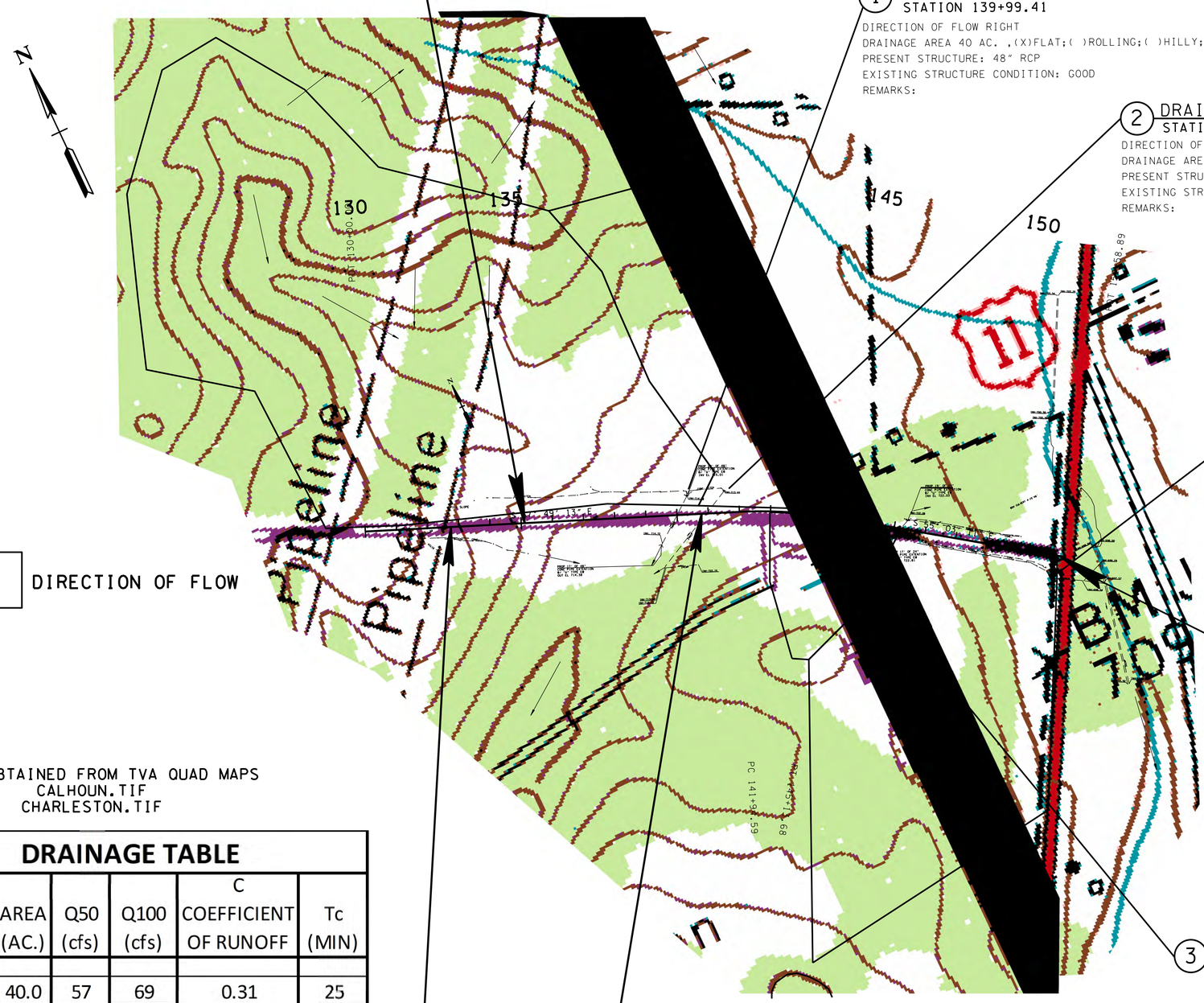
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	7
CONST	2015	54013-3216-04	7

REVISED 9-22-15
CHANGED END PROJ R.O.W. STA.

BEGIN PROJ. NO. 54013-2216-04 R.O.W.
STA. 135+16.00



1 DRAINAGE DATA FOR PIPE
STATION 139+99.41
DIRECTION OF FLOW RIGHT
DRAINAGE AREA 40 AC. ,(X)FLAT;( )ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 48" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

2 DRAINAGE DATA FOR PIPE
STATION 140+94.43
DIRECTION OF FLOW LEFT
DRAINAGE AREA 10 AC. ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

4 DRAINAGE DATA FOR PIPE
STATION 11+07.28
DIRECTION OF FLOW LEFT
DRAINAGE AREA 19 AC. ,( )FLAT;(X)
ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 30" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

END PROJ. NO. 54013-3216-04 CONST.
STA. 152+36.84

LEGEND

DIRECTION OF FLOW

AREAS OBTAINED FROM TVA QUAD MAPS
CALHOUN.TIF
CHARLESTON.TIF

DRAINAGE TABLE

DRAINAGE AREA	AREA (AC.)	Q50 (cfs)	Q100 (cfs)	C COEFFICIENT OF RUNOFF	Tc (MIN)
1	40.0	57	69	0.31	25
2	10.0	21	23	0.4	21
3	3.0	8	9	0.4	14
4	19.0	74	81	0.5	20

END PROJ. NO. 54013-2216-04 R.O.W.
STA. 138+78.72

END PROJ. NO. 54013-3216-04 CONST.
STA. 132+73.36

3 DRAINAGE DATA FOR PIPE
STATION 147+20.71
DIRECTION OF FLOW LEFT
DRAINAGE AREA 3 AC. ,( )FLAT;(X)ROLLING;( )HILLY;( )MTNS.
PRESENT STRUCTURE: 24" RCP
EXISTING STRUCTURE CONDITION: GOOD
REMARKS:

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP
STA.130+00 TO STA.152+58
SCALE: 1"=200'

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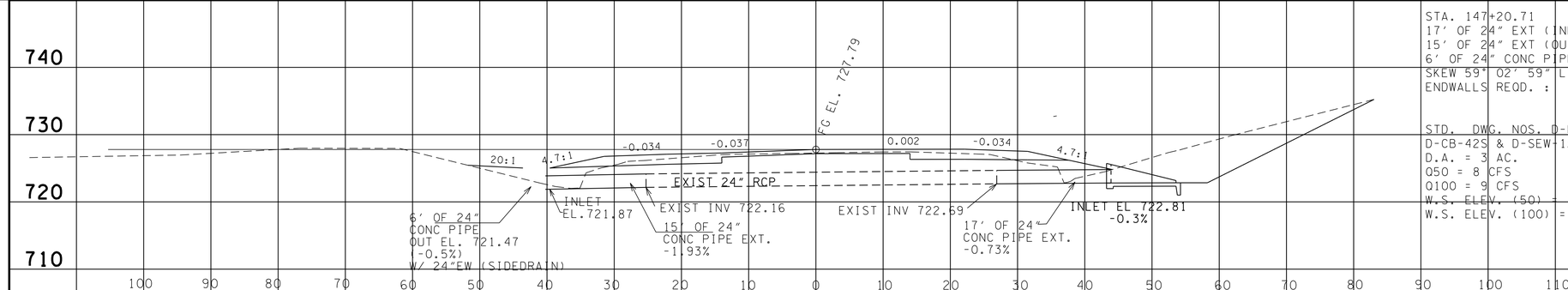
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	8
CONST	2015	54013-3216-04	8

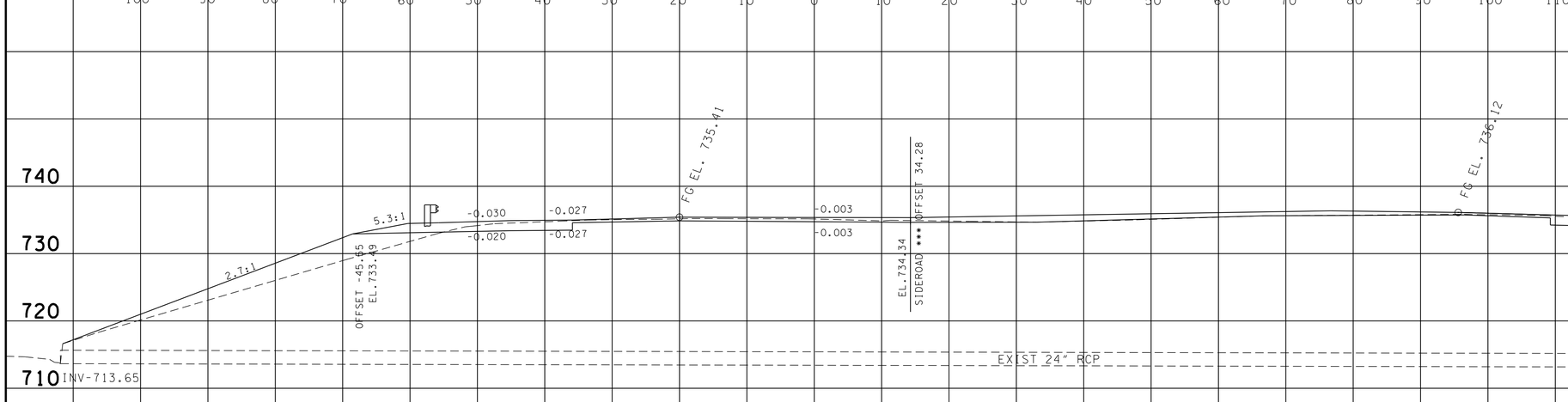
REVISED 9-22-15
CHANGED PROPOSED OUTLET DESIGN FOR CULVERT AT STA 147+20.71.CHANGED EXT LENGTHS FOR 48" RCP FOR CULVERT STA. 133+99.91.

STA. 147+20.71
17' OF 24" EXT (INLET) &
15' OF 24" EXT (OUTLET) CONC CULV.
6' OF 24" CONC PIPE (OUTLET)
SKEW 59° 02' 59" LT
ENDWALLS REQD. : 1 "U" TYPE EW (INLET)
1 TYPE 42 CB (OUTLET)
1 24" EW (SIDEDRAIN) (OUTLET)
STD. DWG. NOS. D-PB-1, D-PE-24A, D-PE-24B,
D-CB-42S & D-SEW-1A
D.A. = 3 AC.
Q50 = 8 CFS
Q100 = 9 CFS
W.S. ELEV. (50) = 724.29
W.S. ELEV. (100) = 724.40



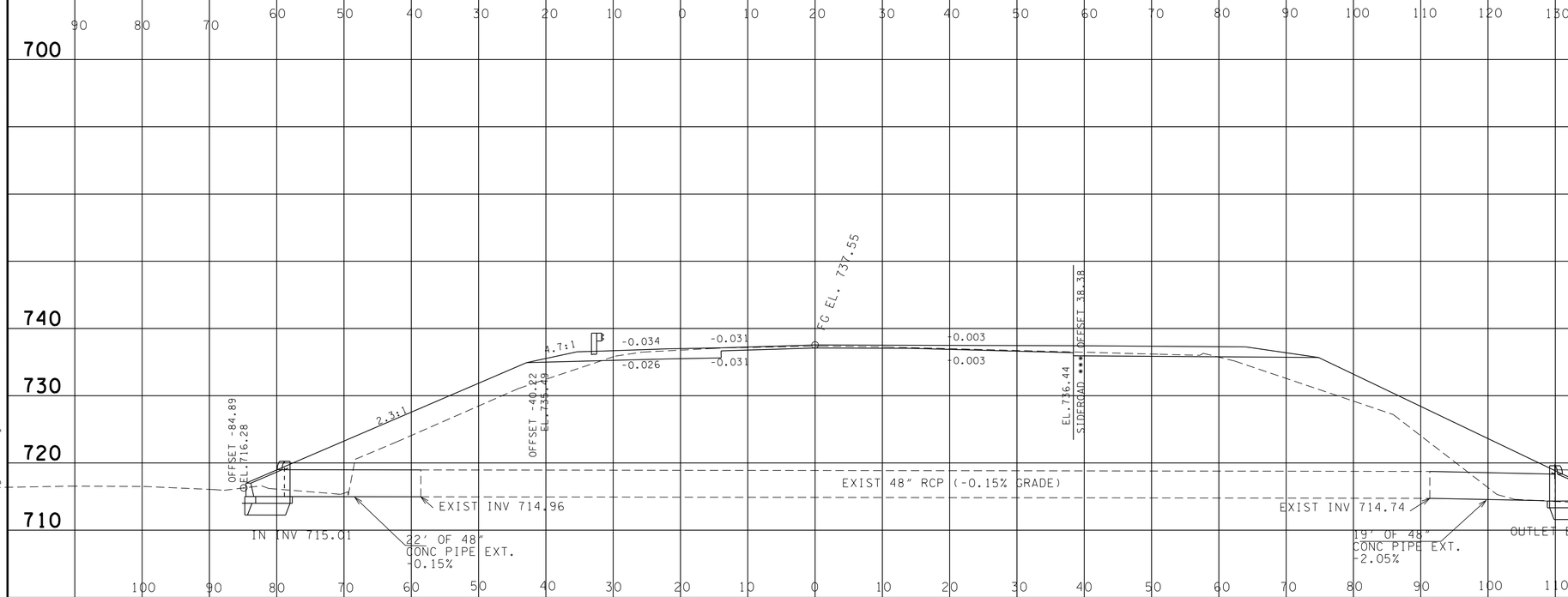
STA. 140+94.43 (FOR REFERENCE ONLY)
EXISTING 24" RCP
SKEW 49° 00' 07" LT
ENDWALLS REQD. : N/A
STD. DWG. NOS. N/A

D.A. = 10 AC.
Q50 = 21 CFS
Q100 = 23 CFS



STA. 139+99.91
20' OF 48" EXT (INLET) & 17' OF 48" EXT (OUTLET)
SKEW 59° 44' 55" LT
ENDWALLS REQD. : 2 "A" TYPE EWS
STD. DWG. NOS. D-PB-2 & D-PE-1

D.A. = 40 AC.
Q50 = 57 CFS
Q100 = 69 CFS
W.S. ELEV. (50) = 718.46
W.S. ELEV. (100) = 718.90



MAINLINE
139+99.91

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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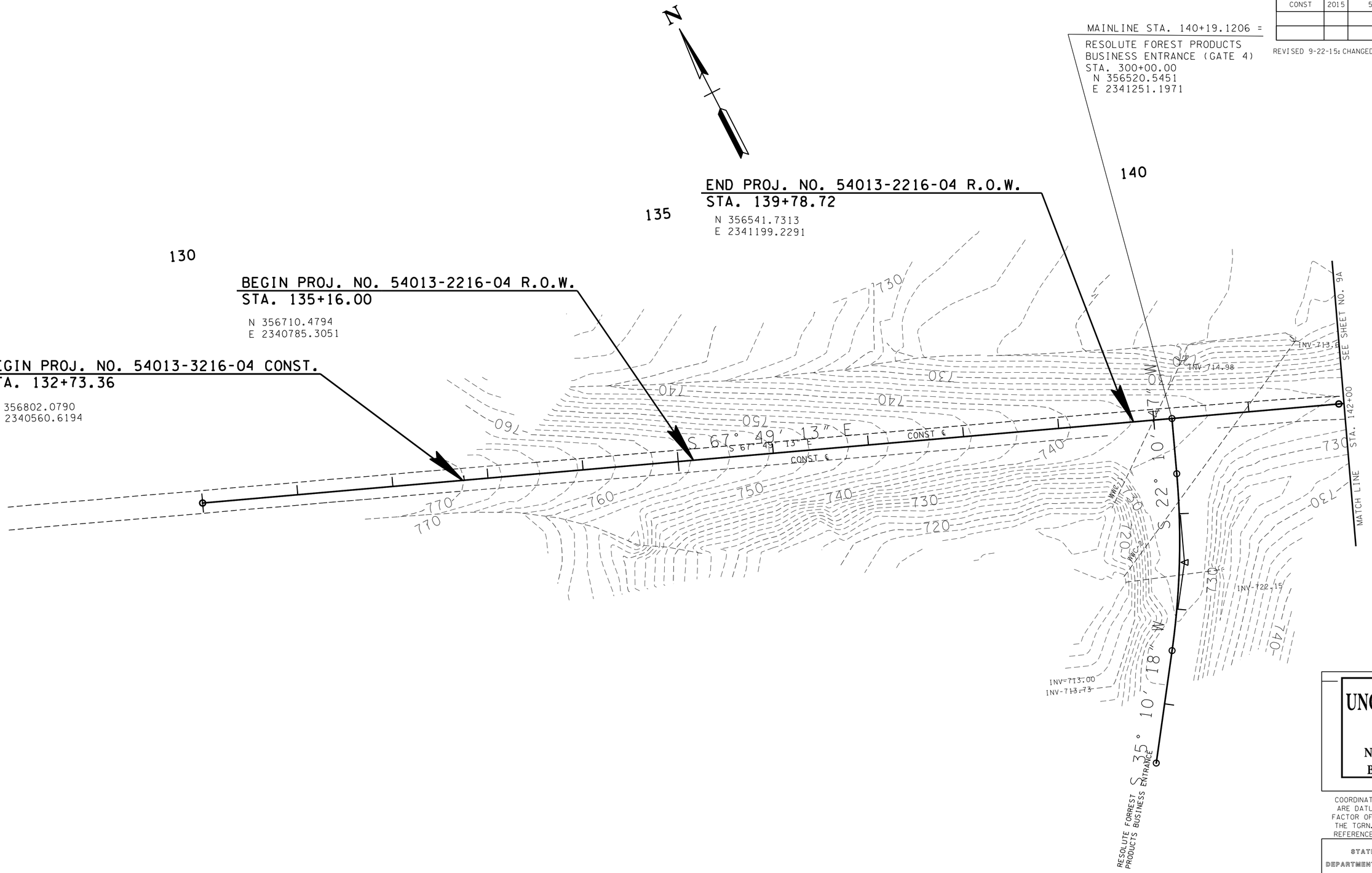
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	9
CONST	2015	54013-3216-04	9

REVISED 9-22-15: CHANGED END R.O.W. PROJ STA.



EXISTING CONTOURS ON 2' INTERVALS

UNOFFICIAL SET

NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.130+00 TO STA.142+00

SCALE: 1"=50'

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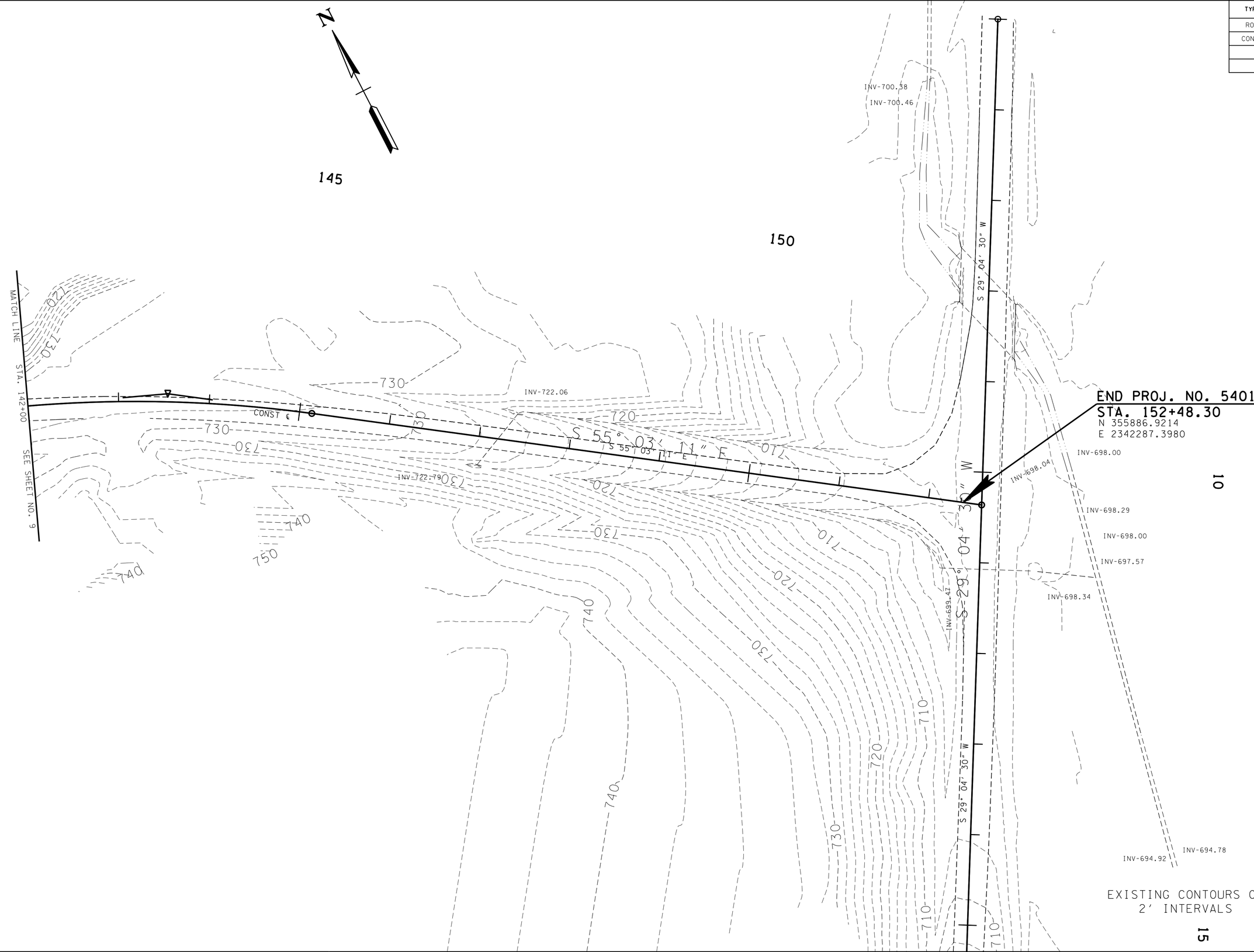
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	9A
CONST	2015	54013-3216-04	9A



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15

EXISTING CONTOURS ON 2' INTERVALS

UNOFFICIAL SET

NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.142+00 TO STA.152+58

SCALE: 1"=50'

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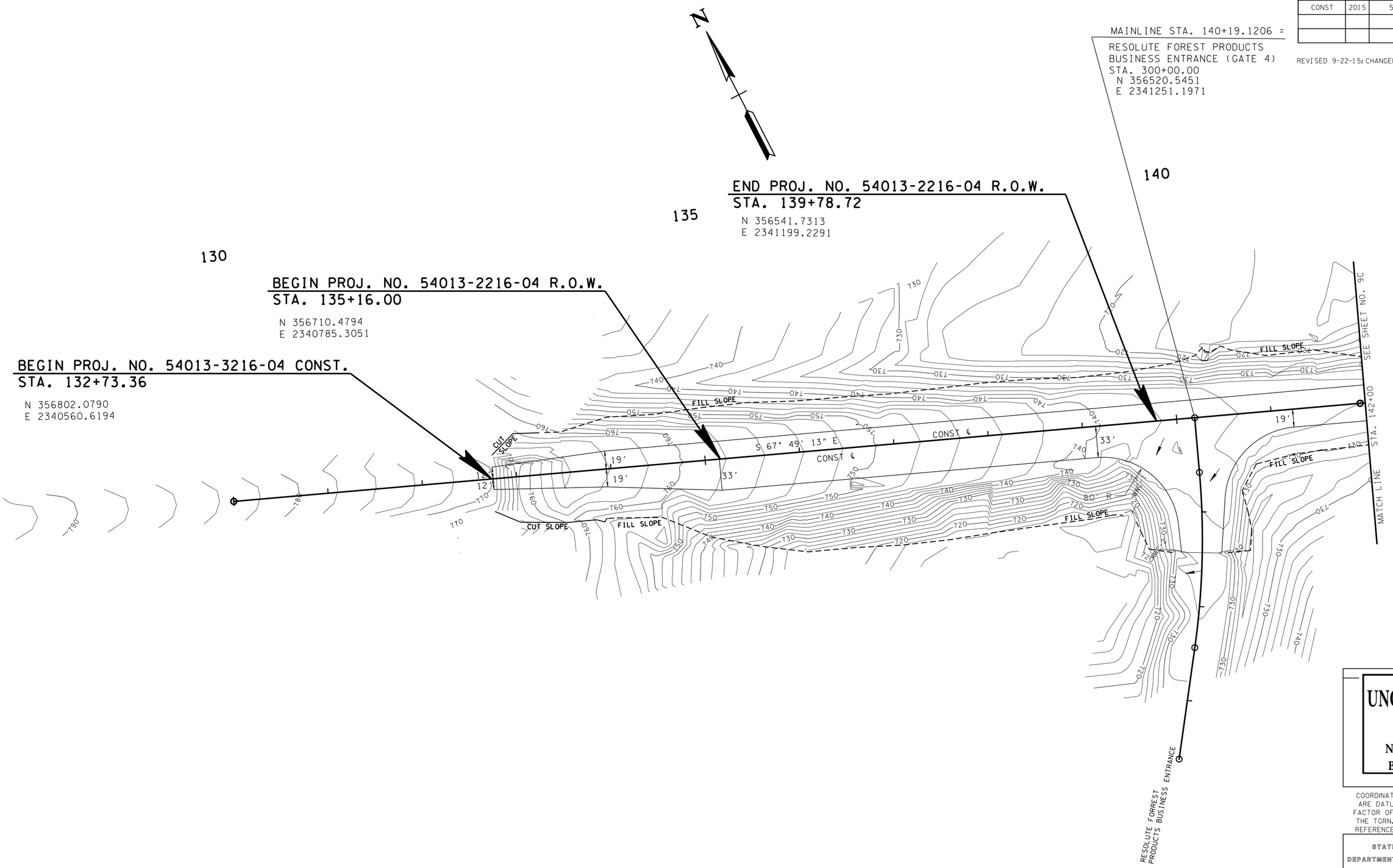
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	9B
CONST	2015	54013-3216-04	9B

REVISED 9-22-15: CHANGED END R.O.W. PROJ STA.



PROPOSED CONTOURS ON 2' INTERVALS

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.130+00 TO STA.142+00

SCALE: 1"=50'

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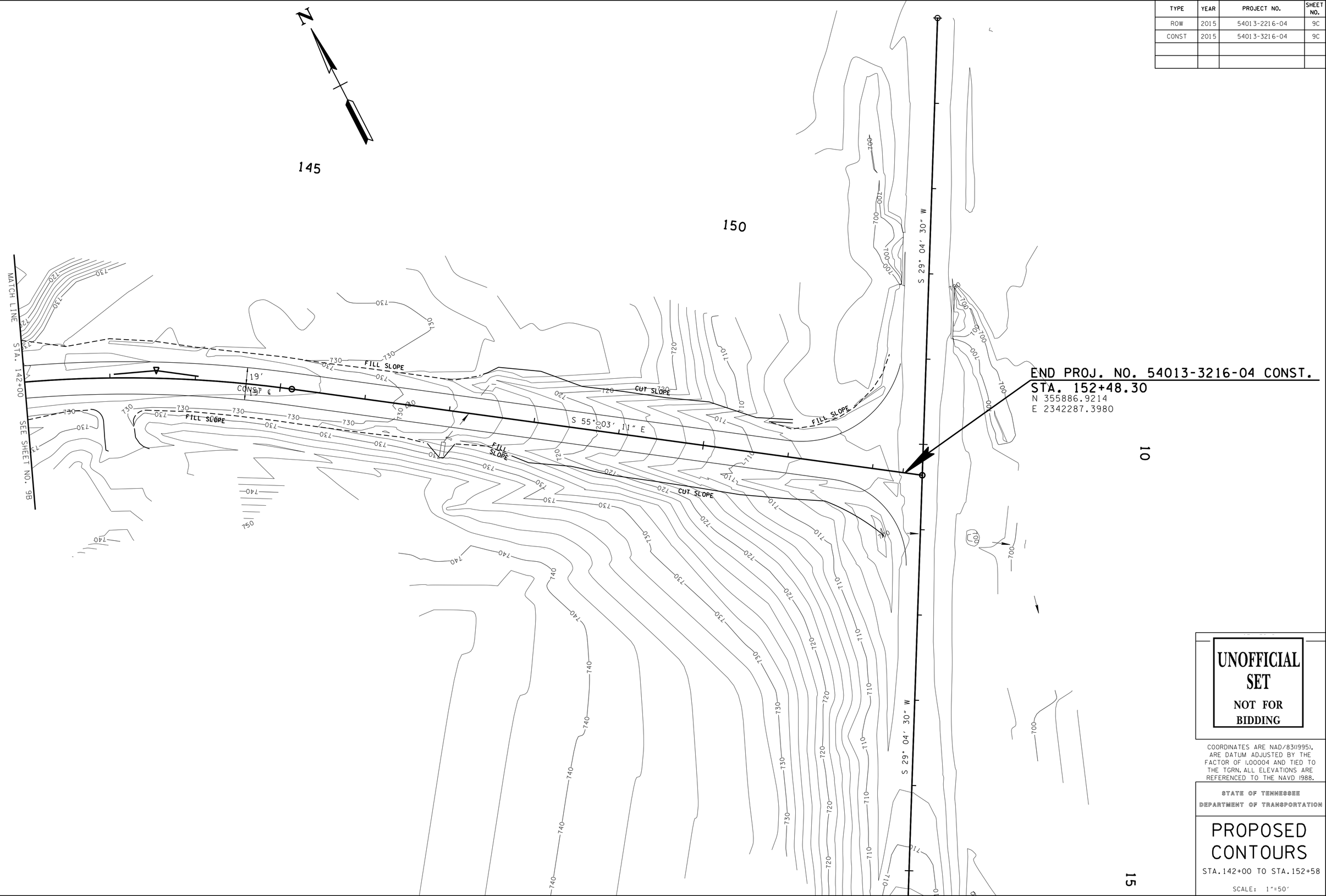
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	9C
CONST	2015	54013-3216-04	9C



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.142+00 TO STA.152+58

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	10
CONST	2015	54013-3216-04	10

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 ROADWAY 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

(3) 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.

(4) 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.

(5) 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.

(6) 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.

(7) 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.

(8) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(9) 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

(10) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(11) 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

(12) 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).

(13) 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.

(14) 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.

(15) 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.

(16) 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.

(17) 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.

(18) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(19) 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.

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	10A
CONST	2015	54013-3216-04	10A

REVISED 9-22-15: REMOVED "EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES" BLOCK. UPDATED EPSC QUANTITIES BLOCK.

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
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EC-STR-48

EPSC QUANTITIES

STAGE	203-01 RD. AND DRG. EXC. UNCL.	209-05 SED. RMVL.	209-08.02 SFB.	209-08.03 SF.	209-08.07 ROCK CK. DAM	209-08.08 ENH. RK. CK. DAM	209-40.33 TYPE D CB PROTECT	209-40.48 TYPE 8 CB FILTER ASSEM	303-10.01 MIN. AG. 57	709-05.06 MACH. RIP RAP A-1	740-10.03 GEOTX. TYPE III	740-11.03 TEMP. SED. TUBE 18IN.	801-01.07 TEMP SEEDING W/MUL.	801-02 SEEDING WO/MUL.	801-03 WATER SEED & SOD.	803-01 SOD. (NEW)
	PAY ITEMS															
	(C.Y.)	(C.Y.)	(L.F.)	(L.F.)	(EACH)	(EACH)	(EACH)	(EACH)	(TONS)	(TON)	(S.Y.)	(L.F.)	(UNITS)	(UNITS)	(M.G.)	(S.Y.)
1	41		0	2917	23	3			8	45	108	0	74	74	1	
2	21		1678	1269	19	6	1		32	23	256	1176	73			
3	0		0	0	3	3		1	0	0	0	0	0		1	8169
ALL		96														
TOTALS	**62**	**96**	**1678**	**4186**	**45**	**12**	**1**	**1**	**40**	**68**	**363**	**1176**	**147**	**74**	**2**	**8169**

SEE SUBSECTION 209.07 OF THE STANDARD SPECS. FOR MAINTENANCE REPLACEMENT.
ALL QUANTITIES ARE TO BE USED AS DIRECTED BY ENGINEER.

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

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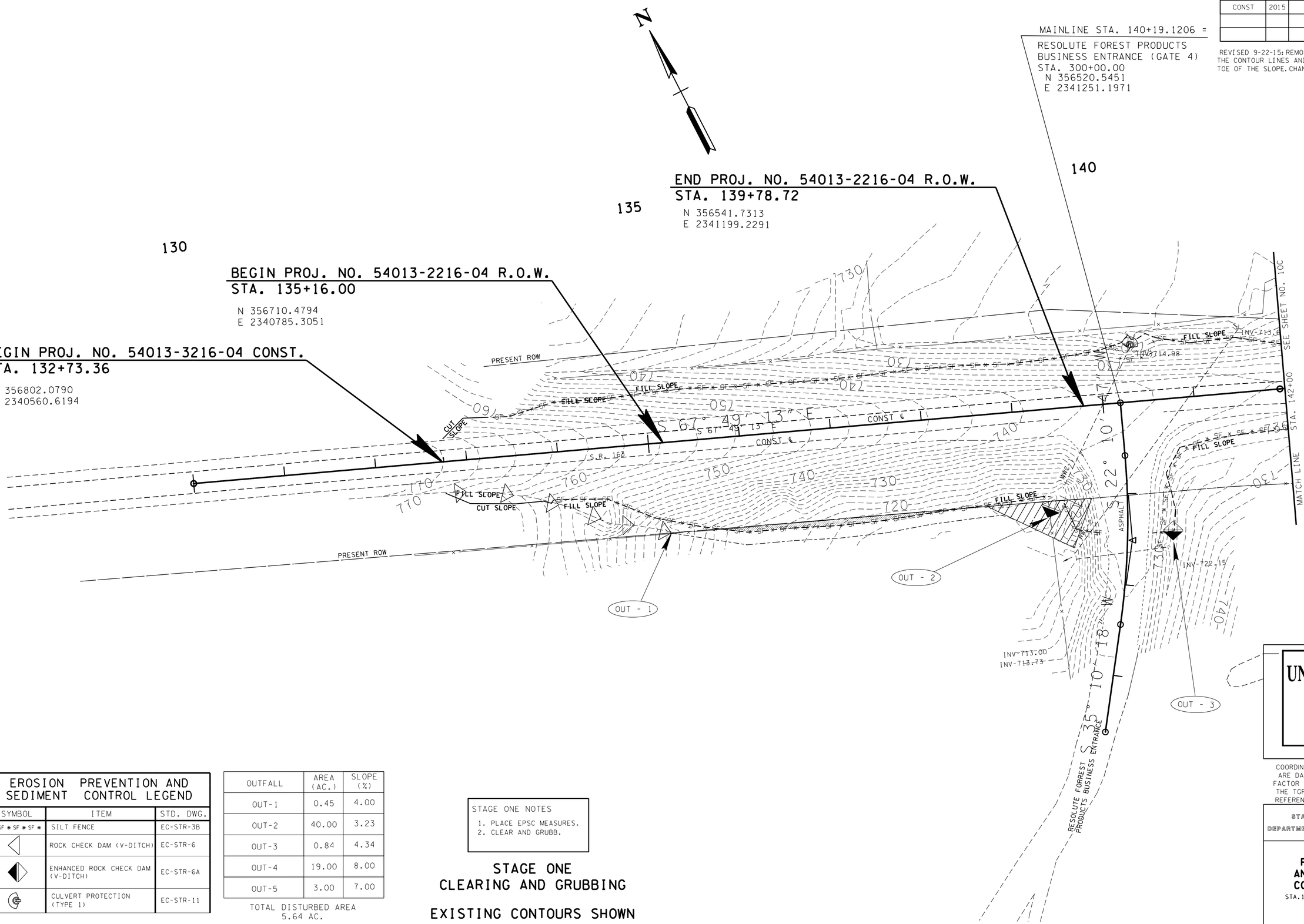
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	10B
CONST	2015	54013-3216-04	10B

REVISED 9-22-15: REMOVED SILT FENCE FROM THE CONTOUR LINES AND PLACED AT THE TOE OF THE SLOPE. CHANGED END R.O.W. PROJ STA.



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
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-1	0.45	4.00
OUT-2	40.00	3.23
OUT-3	0.84	4.34
OUT-4	19.00	8.00
OUT-5	3.00	7.00

TOTAL DISTURBED AREA
5.64 AC.

STAGE ONE NOTES
1. PLACE EPSC MEASURES.
2. CLEAR AND GRUBB.

STAGE ONE
CLEARING AND GRUBBING

EXISTING CONTOURS SHOWN

UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.130+00 TO STA.142+00
STAGE ONE
SCALE: 1"=50'

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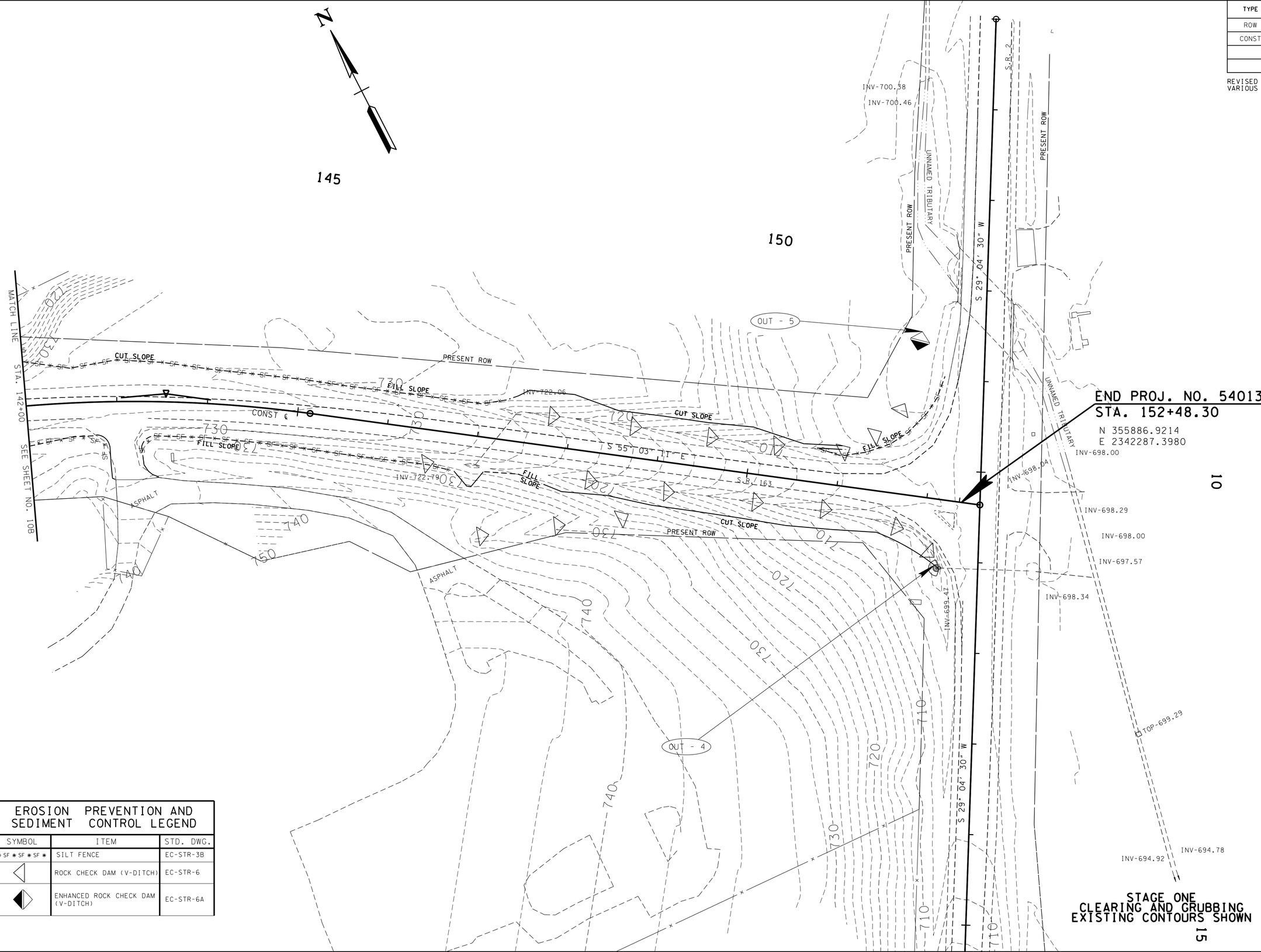
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	10C
CONST	2015	54013-3216-04	10C

REVISED 9-22-15: ADDED SILT FENCE TO VARIOUS LOCATIONS. ADDED LEGEND.



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

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.142+00 TO STA.152+58

STAGE ONE

SCALE: 1"=50'

STAGE ONE CLEARING AND GRUBBING EXISTING CONTOURS SHOWN

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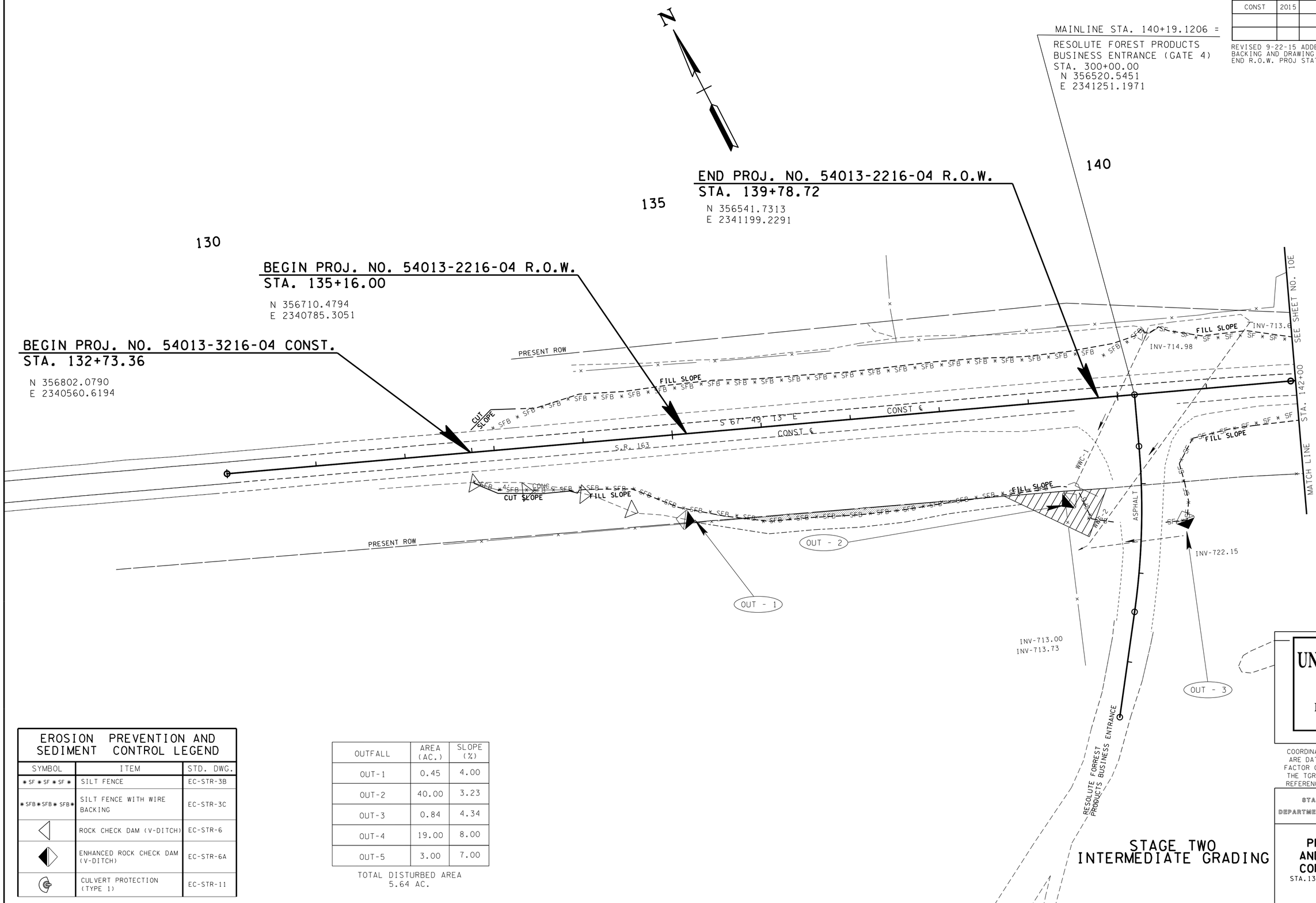
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	10D
CONST	2015	54013-3216-04	10D

REVISED 9-22-15 ADDED SILT FENCE WITH BACKING AND DRAWING TO LEGEND. CHANGED END R.O.W. PROJ STATION.



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
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-1	0.45	4.00
OUT-2	40.00	3.23
OUT-3	0.84	4.34
OUT-4	19.00	8.00
OUT-5	3.00	7.00

TOTAL DISTURBED AREA
5.64 AC.

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STAGE TWO
INTERMEDIATE GRADING

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.130+00 TO STA.142+00

STAGE TWO

SCALE: 1"=50'

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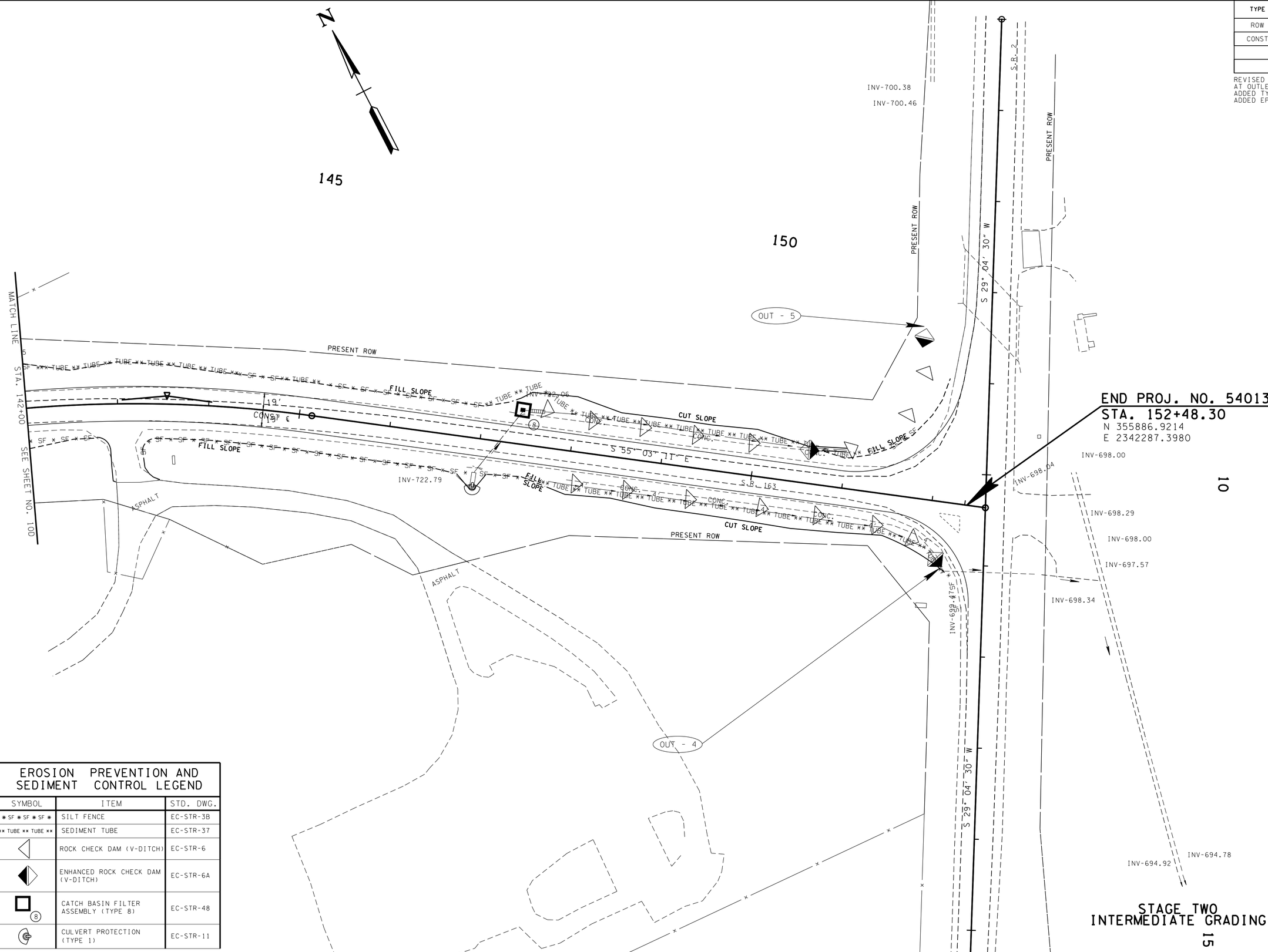
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	10E
CONST	2015	54013-3216-04	10E

REVISED 9-22-15: CHANGED PROP DRAINAGE AT OUTLET END OF 24" CULV STA 147+42.11. ADDED TYPE 8 CATCHBASIN PROTECTION. ADDED EPSC LEGEND.



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
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EC-STR-48
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.142+00 TO STA.152+58

STAGE TWO

SCALE: 1"=50'

STAGE TWO INTERMEDIATE GRADING

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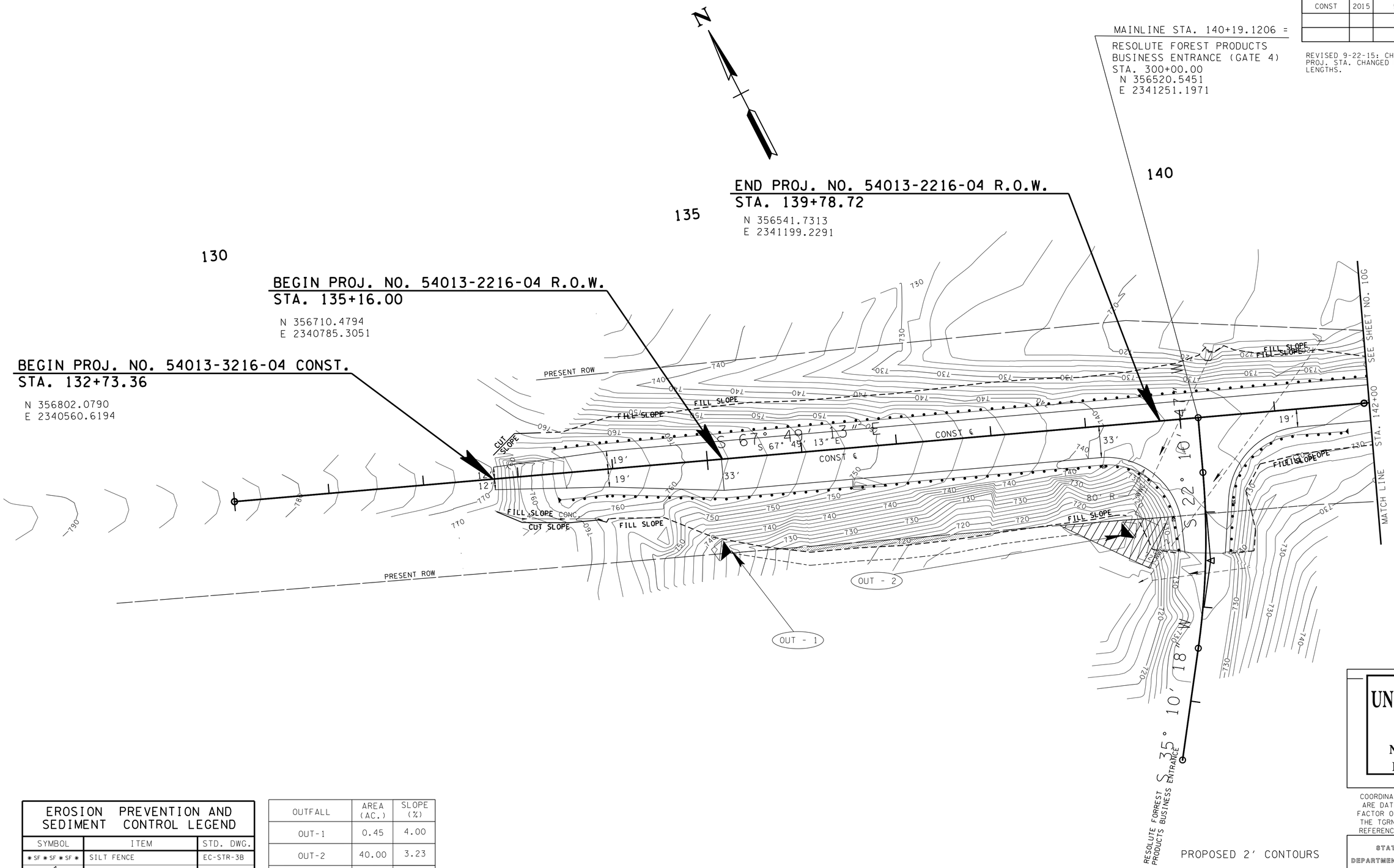
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	1 OF
CONST	2015	54013-3216-04	1 OF

REVISED 9-22-15: CHANGED END R.O.W. PROJ. STA. CHANGED PROP CULV EXT LENGTHS.



PROPOSED 2' CONTOURS

ALL SLOPES WILL BE SODDED

STAGE THREE
FINAL CONSTRUCTION

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
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-1	0.45	4.00
OUT-2	40.00	3.23
OUT-3	0.84	4.34
OUT-4	19.00	8.00
OUT-5	3.00	7.00

TOTAL DISTURBED AREA
5.64 AC.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.130+00 TO STA.142+00

STAGE THREE
SCALE: 1"=50'

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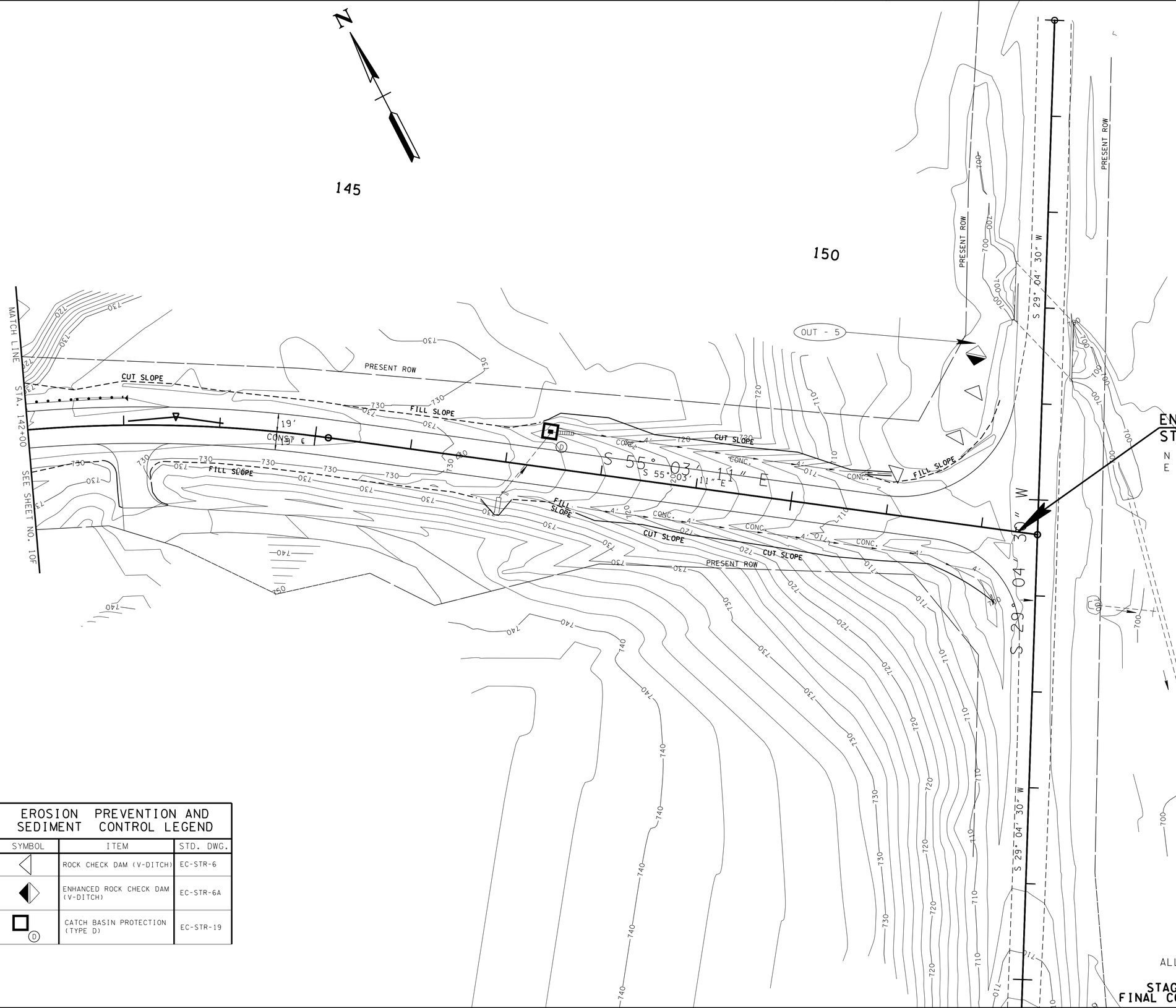
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	54013-2216-04	10G
CONST	2015	54013-3216-04	10G

REVISED 9-22-15: CHANGED PROP DRAINAGE AT OUTLET END OF 24" CULV STA 147+42.11. ADDED TYPE D CATCHBASIN PROTECTION. ADDED EPSC LEGEND.



END PROJ. NO. 54013-3216-04 CONST.
STA. 152+48.30
N 355886.9214
E 2342287.3980

10

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
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

PROPOSED 2' CONTOURS
ALL SLOPES WILL BE SODDED

STAGE THREE
FINAL CONSTRUCTION

15

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.142+00 TO STA.152+58
STAGE THREE
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	11

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.

TABULATED SIGNS (CONSTRUCTION) 712-06

QUANTITY	M.U.T.C.D. NO.	DESCRIPTION	SIZE IN X	SIZE IN	ITEM NO. 712-06 S.F.
3	G20-2	END ROAD WORK	36	18	14
3	W20-1	ROAD WORK 1/2 MILE	36	36	27
3	W20-1	ROAD WORK 1500 FT	36	36	27
3	W20-1	ROAD WORK 1000 FT	36	36	27
3	W20-1	ROAD WORK 500 FT	36	36	27
2	W20-7a	FLAGGER	36	36	18
2	W3-1	STOP AHEAD	36	36	18
2	W8-11	UNEVEN LANES	36	36	18
2	W21-2	FRESH OIL	36	36	18
1	W21-5b	RIGHT SHOULDER CLOSED 1500 FT	36	36	9
1	W21-5a	RIGHT SHOULDER CLOSED	36	36	9
		TOTAL			212

SEE FIGURE 6F-1 OF FIGURES SHOWN IN CURRENT M.U.T.C.D. THIS CONSTRUCTION SIGNING IS TO BE CONSTRUCTED AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

UNOFFICIAL SET

NOT FOR BIDDING

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
C	WARNING LIGHT (TYPE C) (STEADY)
	TEMPORARY ATTENUATOR
	WORK ZONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES

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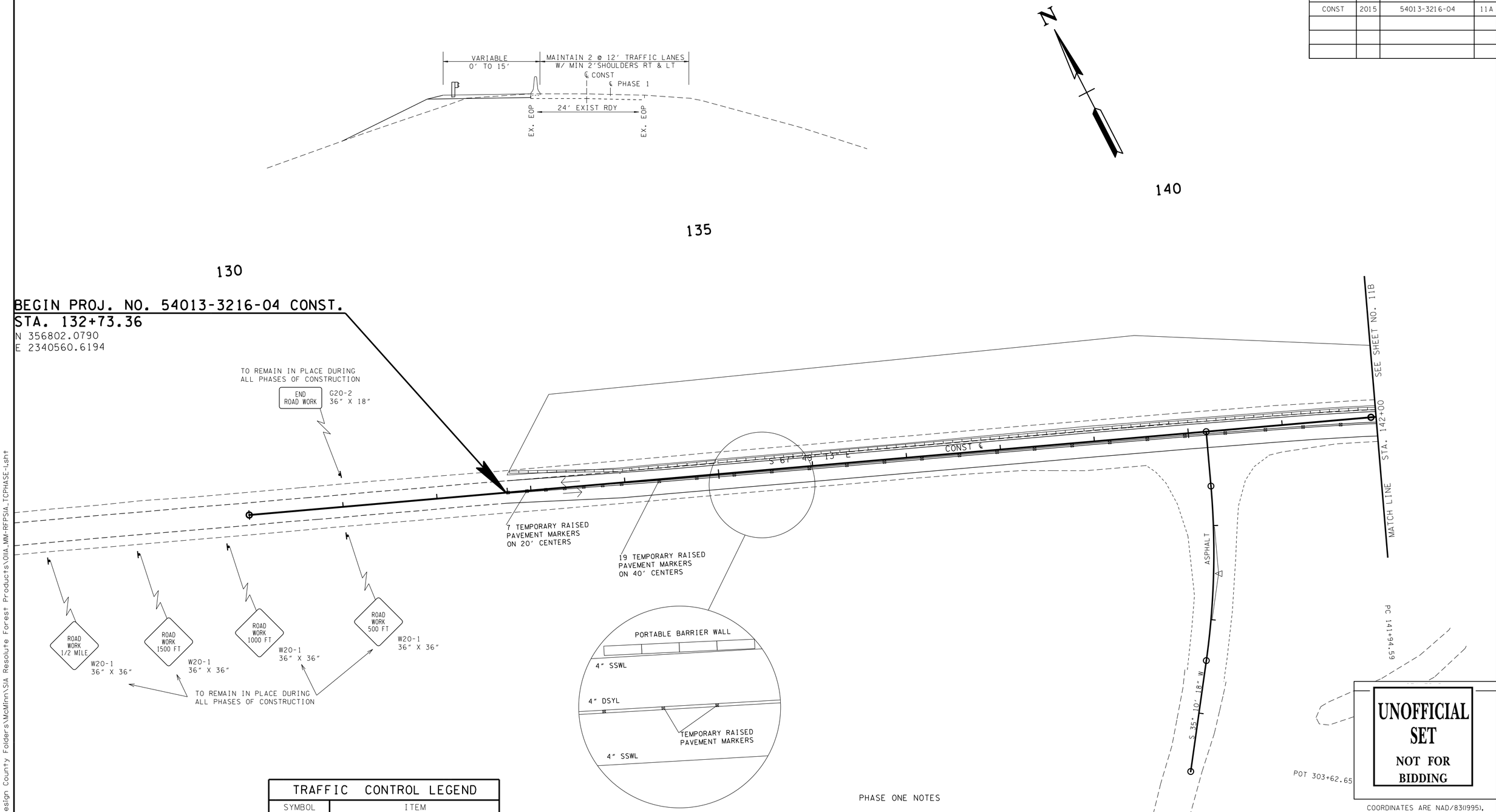
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	11A



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
C	WARNING LIGHT (TYPE C) (STEADY)
	WORK ZONE

PHASE ONE NOTES

1. MILL EXISTING ROADWAY APPROXIMATELY 1.25' DEPTH.
2. MAINTAIN 2 @ 12' TRAFFIC LANES W/2' SHOULDERS WITH A SLIGHT SHIFT TO THE RIGHT USING EXISTING SHOULDER AS PART OF TRAVEL LANE.
3. INSTALL PORTABLE BARRIER RAIL WITH CRASH CUSHIONS ON LEFT SIDE OF EXISTING ROADWAY.
4. INSTALL DRAINAGE STRUCTURES, CONSTRUCT PROPOSED WIDENING, INSTALL CONCRETE DITCHES AND SOD SLOPES ON LEFT SIDE OF EXISTING ROADWAY AS DIRECTED.
5. PLACE BASE STONE AND ASPHALT ON LEFT SIDE OF ROADWAY AS INDICATED ON PROPOSED PAVEMENT SCHEDULE AND PROPOSED TYPICAL SECTION ON SHEET NOS. 2A & 2A(1) UP TO THE B-M2 MIX.
6. INSTALL PROPOSED GUARDRAIL ON LEFT SHOULDER AS INDICATED ON PROPOSED LAYOUT.

PHASE ONE

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.130+00 TO STA.142+00
PHASE ONE
SCALE: 1"=50'

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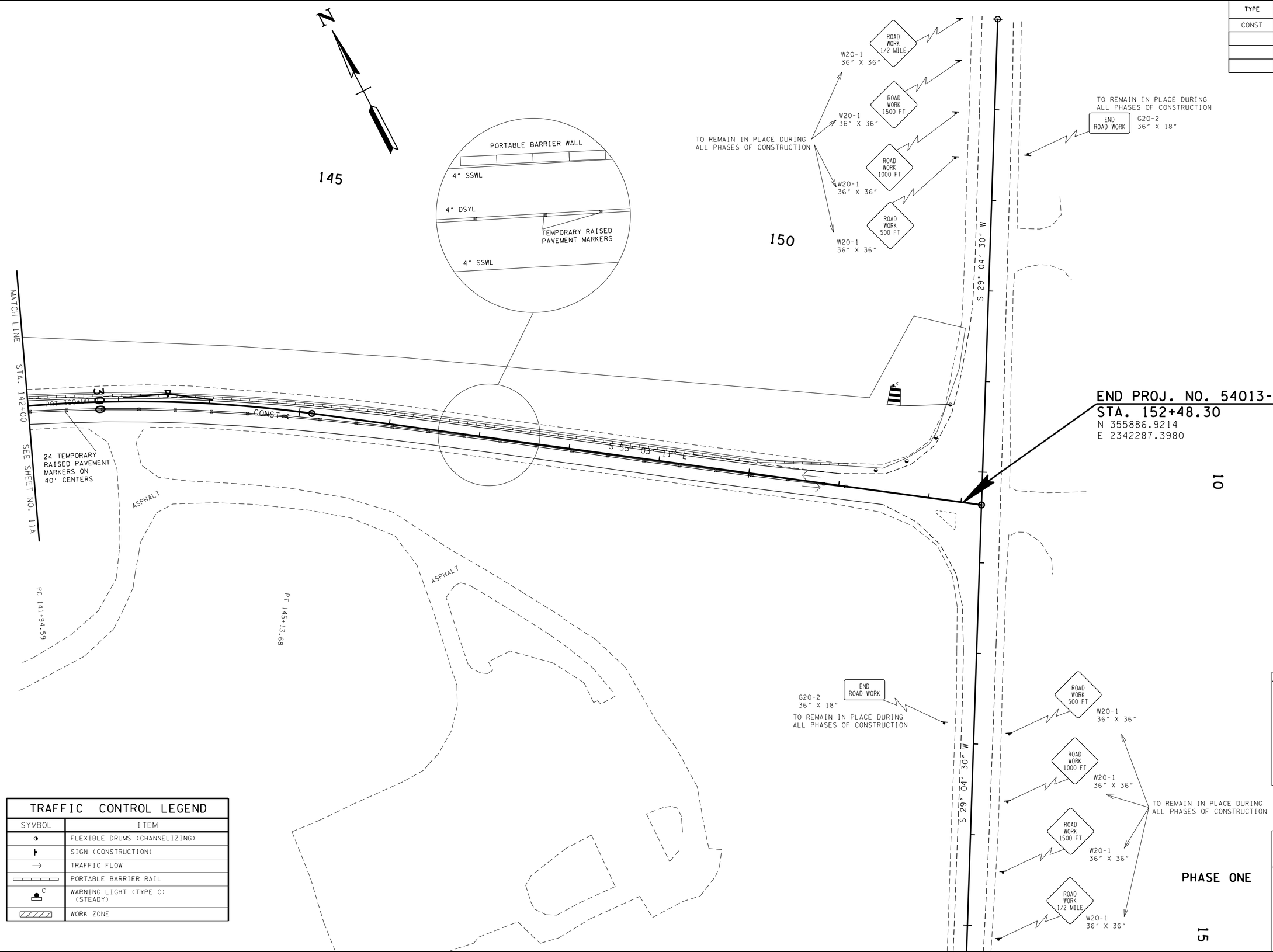
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	11B



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
C	WARNING LIGHT (TYPE C) (STEADY)
	WORK ZONE

PHASE ONE

UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.142+00 TO STA.152+58
PHASE ONE
SCALE: 1"=50'

23-SEP-2015 12:15
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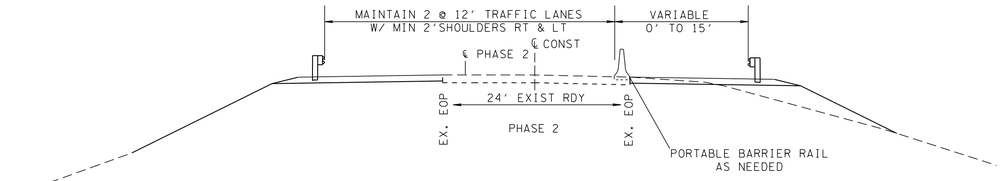
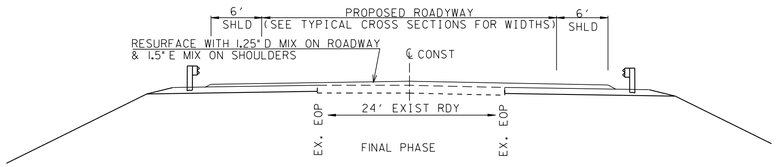
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	11C





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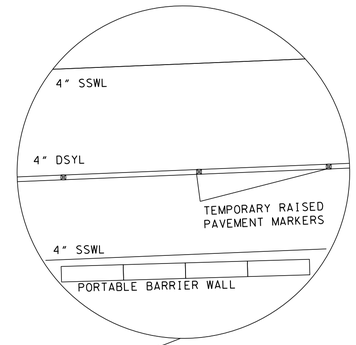
135

140



BEGIN PROJ. NO. 54013-3216-04 CONST.
STA. 132+73.36
N 356802.0790
E 2340560.6194

END ROAD WORK
G20-2
36" X 18"

13 TEMPORARY RAISED
PAVEMENT MARKERS
ON 20' CENTERS

17 TEMPORARY RAISED
PAVEMENT MARKERS
ON 40' CENTERS

70'
TYP

S 67° 49' 13" E

CONST ℄

50'
TYP

ASPHALT

S 35° 10' 18" W

SEE SHEET NO. 11D

STA. 142+00

MATCH LINE

PC 141+94.59

POT 303+62.65

ROAD WORK 1/2 MILE
W20-1
36" X 36"

ROAD WORK 1500 FT
W20-1
36" X 36"

RIGHT SHOULDER CLOSED 1500 FT
W21-5b
36" X 36"

ROAD WORK 1000 FT
W20-1
36" X 36"

ROAD WORK 500 FT
W20-1
36" X 36"

RIGHT SHOULDER CLOSED
W21-5a
36" X 36"

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
◑	FLEXIBLE DRUMS (CHANNELIZING)
▶	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
▭▭▭	PORTABLE BARRIER RAIL
C	WARNING LIGHT (TYPE C) (STEADY)
▨	WORK ZONE

PHASE TWO NOTES

1. REMOVE PHASE ONE PORTABLE BARRIER RAIL.
2. SHIFT 2 @ 12' TRAFFIC LANES W/2' SHOULDERS TO LEFT USING PROPOSED SHOULDER AS PART OF THE WEST BOUND TRAVEL LANE.
3. INSTALL PORTABLE BARRIER RAIL IN AREAS WHERE NEAREST TRAVEL LANE IS WITHIN 8' AND DRUMS AND ADDITIONAL TRAFFIC CONTROL ITEMS IN LOCATIONS WHERE THE NEAREST TRAVEL LANE IS FARTHER THAN 8' @ 70' SPACING OR AS DIRECTED BY THE TDOT PROJECT SUPERVISOR.
4. INSTALL DRAINAGE STRUCTURES. CONSTRUCT PROPOSED WIDENING. INSTALL CONCRETE DITCHES AND SOD SLOPES ON RIGHT OF EXISTING ROADWAY AND RAMP TO RESOLUTE FOREST PRODUCTS.
5. PLACE BASE STONE AND ASPHALT ON RIGHT SIDE OF ROADWAY AS INDICATED ON TYPICAL SECTIONS ON SHEET NOS. 2A & 2A(1) UP TO THE B-M2 MIX.
6. INSTALL PROPOSED GUARDRAIL ON RIGHT SHOULDER AS INDICATED ON PROPOSED LAYOUT.

FINAL PHASE NOTES

1. REMOVE PHASE TWO PORTABLE BARRIER RAIL.
2. RESURFACE ROADWAY WITH D MIX AND SHOULDERS WITH E MIX AS INDICATED ON SHEET NOS. 2A & 2A(1).
3. PLACE PERMANENT PAVEMENT MARKINGS.

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASE TWO

TRAFFIC CONTROL PLAN

STA. 130+00 TO STA. 142+00
PHASE TWO
SCALE: 1"=50'

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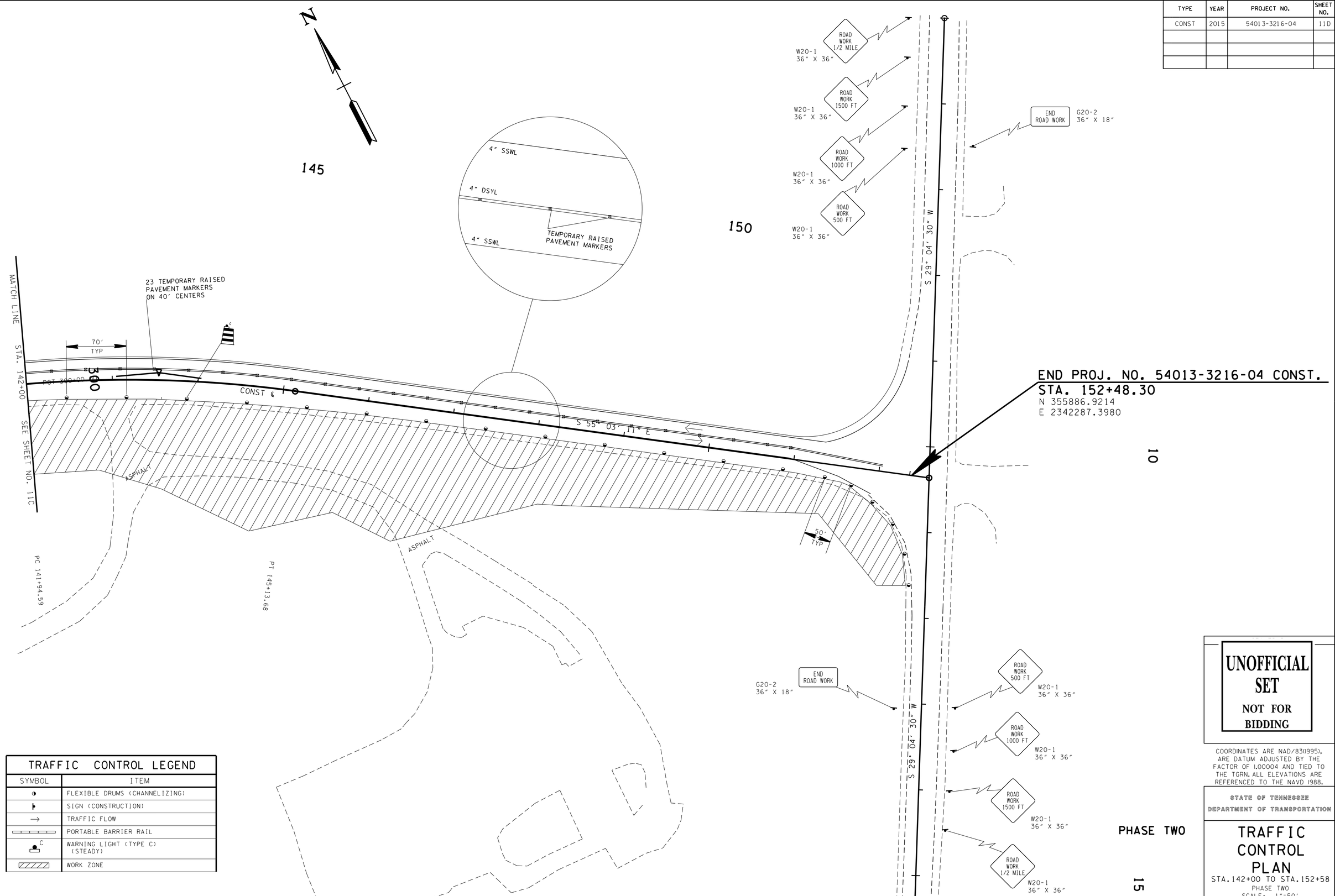
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	11D



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
C	WARNING LIGHT (TYPE C) (STEADY)
	WORK ZONE

PHASE TWO

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.142+00 TO STA.152+58
PHASE TWO
SCALE: 1"=50'

23-SEP-2015 12:15
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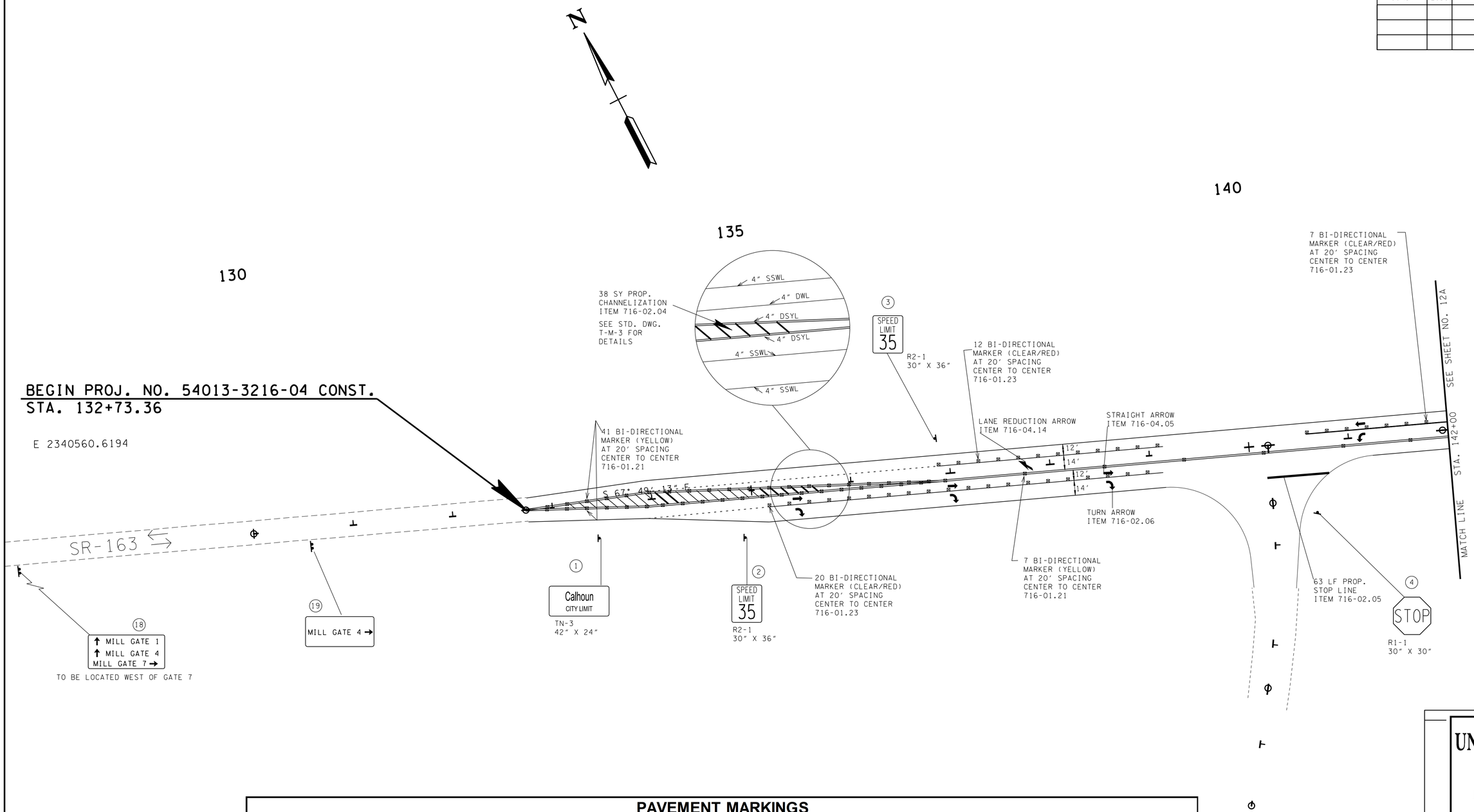
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	12



PAVEMENT MARKINGS

SHEET	716-01.21 (EA) SNOWPLOWABLE MARKERS 1 COLOR (BI-DIRECTIONAL) (YELLOW) EA	716-01.23 (EA) SNOWPLOWABLE MARKERS 1 COLOR (BI-DIRECTIONAL) (CLEAR/RED) EA	716-02.04 PLAS PVMT MARK CHANNELIZATION STRIPING SY	716-02.05 PLAS PVMT MARK STOP LINE LF	716-02.06 PLAS PVMT MARK (TURN LANE ARROW) EA	716-04.05 PLAS PVMT MARK (STRAIGHT ARROW) EA	716-04.12 PLAS PVMT MARK YIELD LINE SF	716-04.14 PLAS PVMT MARK (LANE RED. ARROW) EA	ITEM NO. 716-13.01 (LIN MI.), 4" SPRAY THERMO.				
									D.S.Y.L.	D.W.L.	S.S.W.L.	S.S.Y.L.	S.B.Y.L.
12	48	39	38	63	4	4	0	1	0.508	0.035	0.518	0.000	0.000
12A	45	11	38	70	5	1	18	0	0.342	0.029	0.463	0.130	0.033
TOTALS	93	50	76	133	9	5	18	1	2.058				

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNS & PAVEMENT STRIPING DETAILS

STA.130+00 TO STA.142+00

SCALE: 1"=50'

28-SEP-2015 11:29
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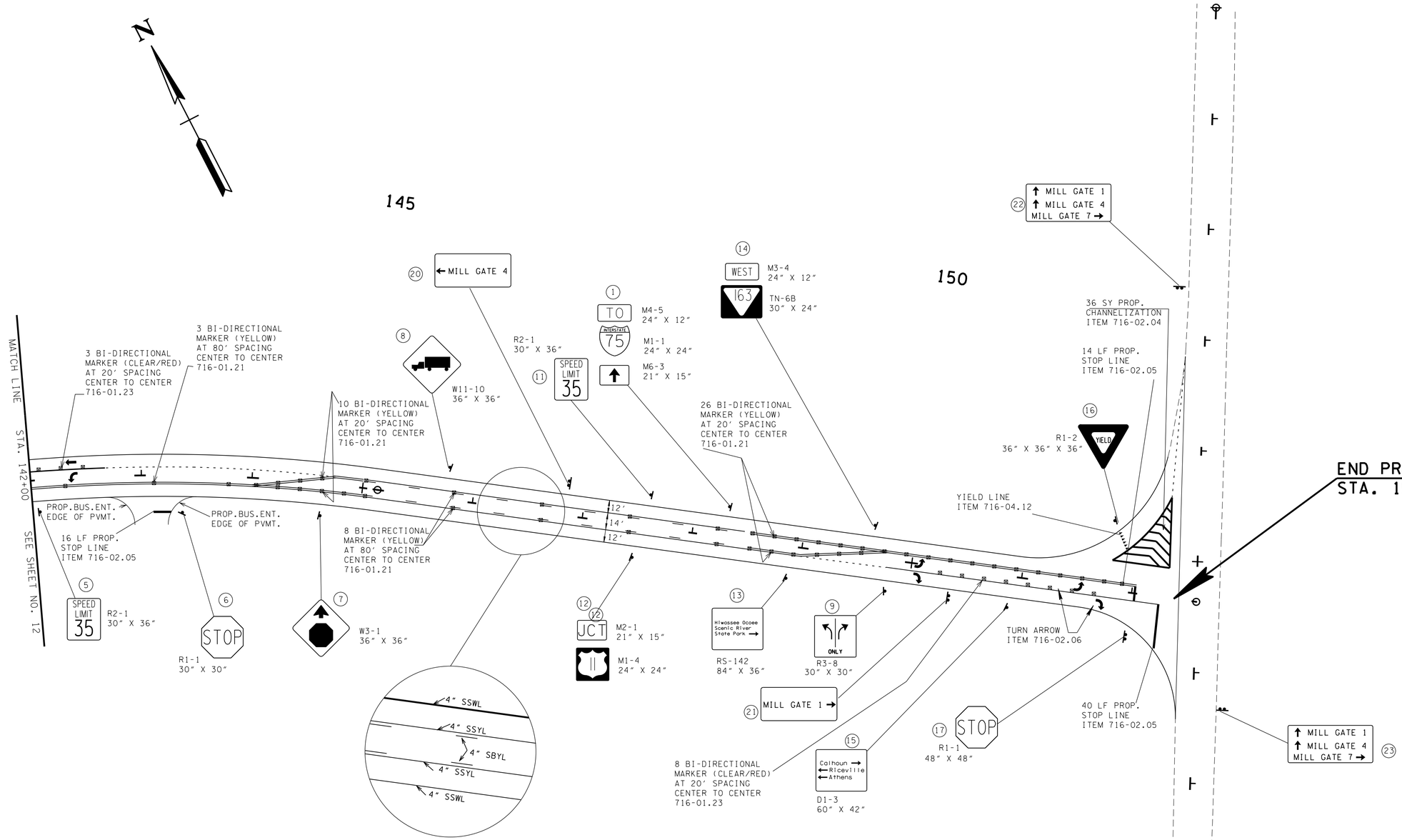
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	54013-3216-04	12A



END PROJ. NO. 54013-3216-04 CONST.
STA. 152+38.40

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNS & PAVEMENT STRIPING DETAILS

STA.142+08 TO STA.152+58

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	54013-3216-04	13

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.		
2	SPEED LIMIT 35 R2-1		30"	36"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h = 12'-6"				5'-0"	
3																	h = 12'-6"					
5																	h = 12'-6"					
11																	h = 12'-6"					
4	STOP R1-1		30"	30"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P3	h = 12'-6"				5'-0"	
6																	h = 12'-6"					
17	STOP R1-1		48"	48"									WHITE (REF.)	RED (REF.)	0.100" SHEET ALUMINUM	P3	h_1 = 13'-6" h_2 = 14'-0"				5'-0"	
7	W3-1		36"	36"									(ARROW) BLACK (STOP) RED (REF.)	YELLOW (REF.)	0.100" SHEET ALUMINUM	P5	h = 13'-6"				5'-0"	
16	YIELD R1-2		36"X36"X36"										RED (REF.)	WHITE (REF.)	0.080" SHEET ALUMINUM	P3	h = 13'-6"				5'-0"	
9	ONLY R3-8		30"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P3	h = 12'-0"				5'-0"	
10	JCT M2-1		21"	15"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P3	h = 13'-0"				5'-0"	
	11 M1-4		24"	24"																		
12	TO M4-5		24"	12"									WHITE	BLUE (REF.)	0.080" SHEET ALUMINUM	P5	h = 14'-3"				5'-0"	
	INTERSTATE 75 M1-1		24"	24"																		
	↑ M6-3		21"	15"																		
14	WEST M3-4		24"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h = 12'-3"				5'-0"	
	163 TN-6B		30"	24"																		
8	W11-10		36"	36"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	P5	h = 14'-0"				5'-0"	
1	Calhoun CITY LIMIT TN-3		42"	24"									WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U1	h1 = 14'-0" h2 = 14'-6"				5'-0"	
13	Hiwassee Ocoee Scenic River → State Park D1-1 (MOD.)		84"	36"			6"	4.5"				6"-9"	WHITE (REF.)	BROWN (REF.)	0.100" SHEET ALUMINUM	U3	h1 = 14'-6" h2 = 14'-0" h2 = 13'-6"				5'-0"	
15	Calhoun → ← Riceville ← Athens D1-3a		60"	42"			6"	4.5"				6"-9"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U6	h1 = 15'-0" h2 = 14'-6"				5'-0"	

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

23-SEP-2015 12:15
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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.	2015	54013-3216-04	13A

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.		
18	↑ MILL GATE 1 ↑ MILL GATE 4 MILL GATE 7 →	D1-3a	12	36"	24"			4"					4"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P2	h = 10'-6"				5'-0"	
19	MILL GATE 4 →	D1-1a	12	36"	12"			4"					4"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P2	h = 9'-6"				5'-0"	
20	← MILL GATE 4	D1-1a	12A	36"	12"			4"					4"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P2	h = 9'-6"				5'-0"	
21	MILL GATE 1 →	D1-1a	12A	36"	12"			4"					4"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P2	h = 9'-6"				5'-0"	
22	↑ MILL GATE 1 MILL GATE 4 → MILL GATE 7 →	D1-3a	12A	36"	24"			4"					4"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P2	h = 10'-6"				5'-0"	
23	← MILL GATE 4 ← MILL GATE 7	D1-2a	12A	36"	18"			4"					4"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P2	h = 10'-0"				5'-0"	

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

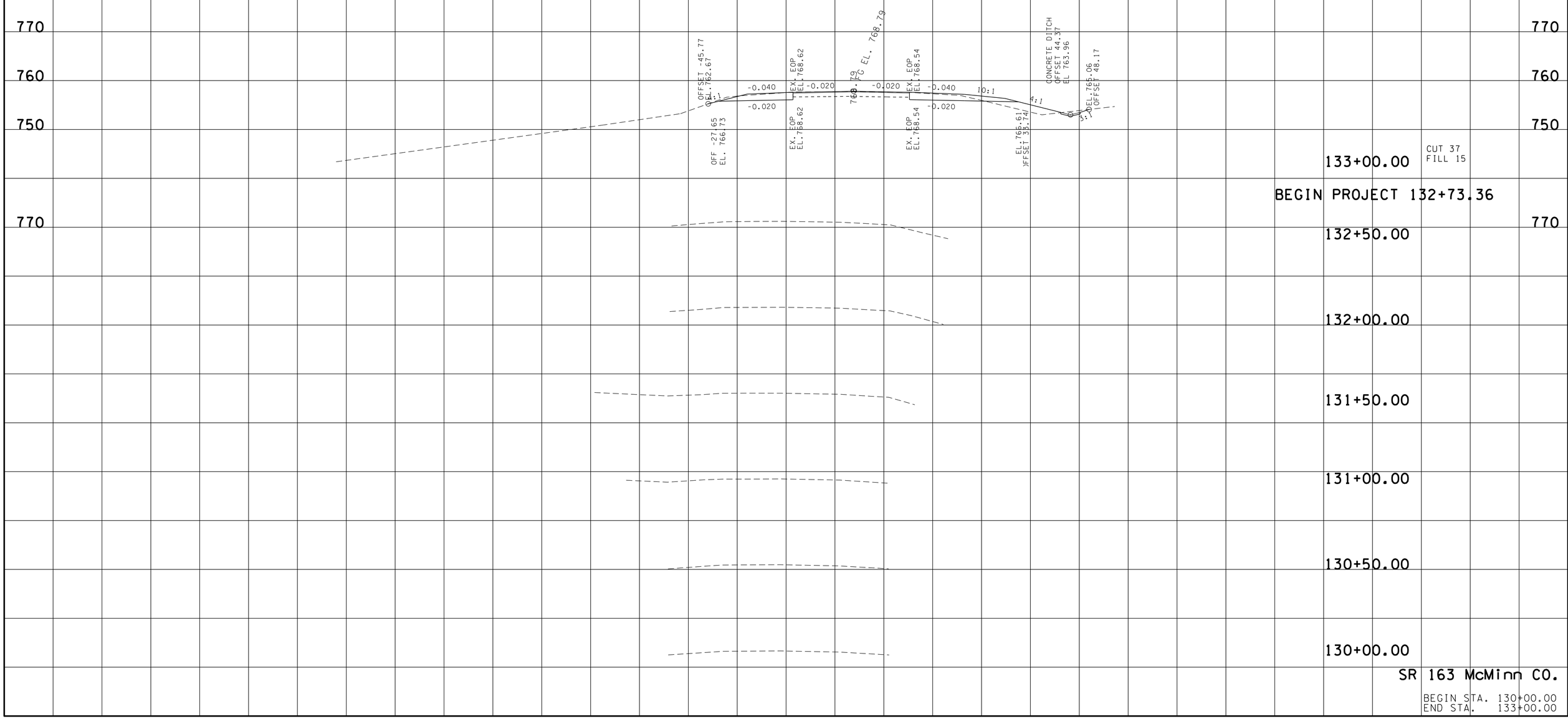
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

24-SEP-2015 12:03
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\McMinn\SIA Resolute Forest Products\013A_MM-RFPSIA_Sign Schedule.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	11
CONST.	2015	54013-3216-04	14

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



23-SEP-2015 14:20
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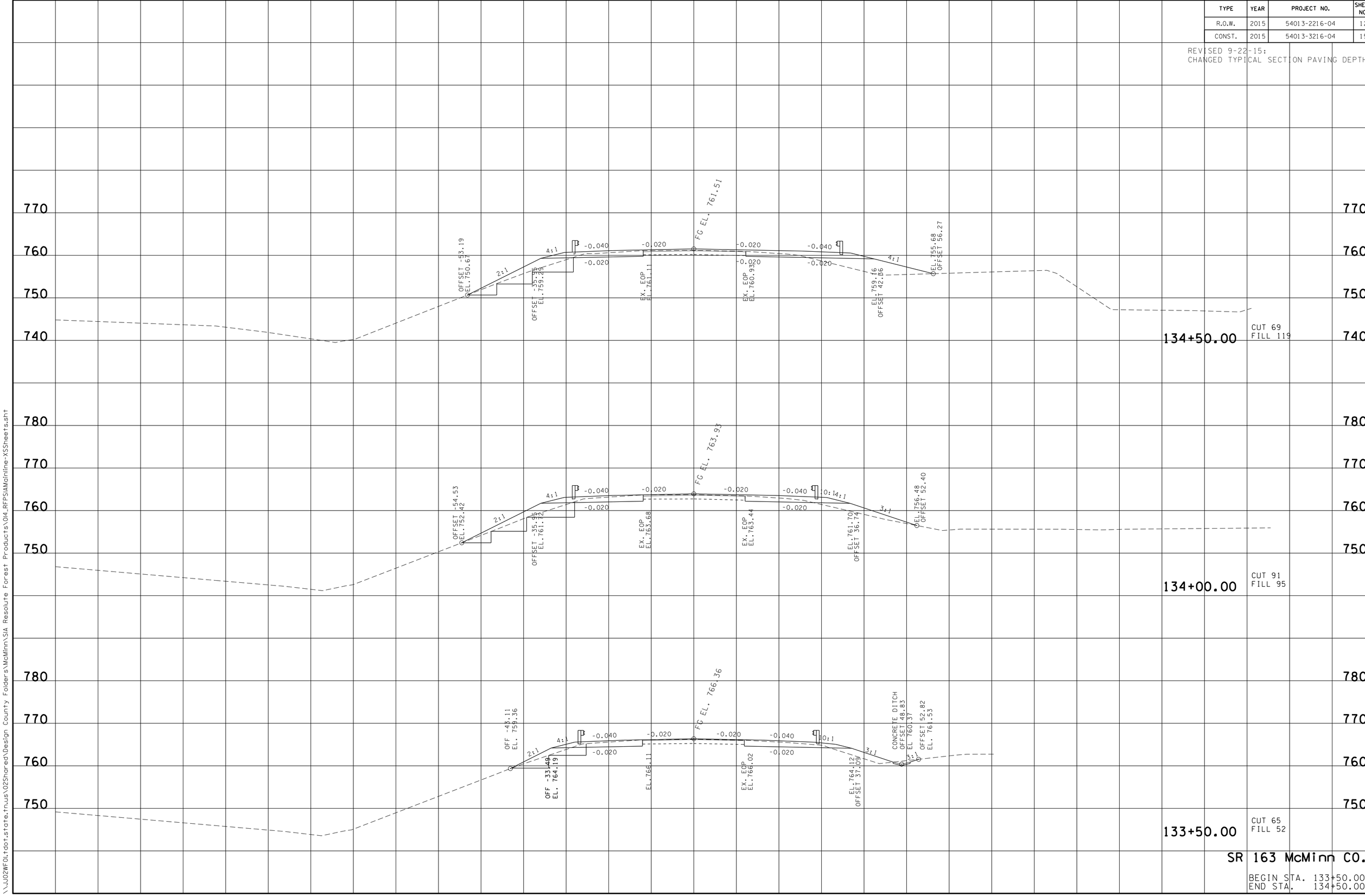
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	12
CONST.	2015	54013-3216-04	15

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

BEGIN STA. 133+50.00
END STA. 134+50.00

23-SEP-2015 14:20
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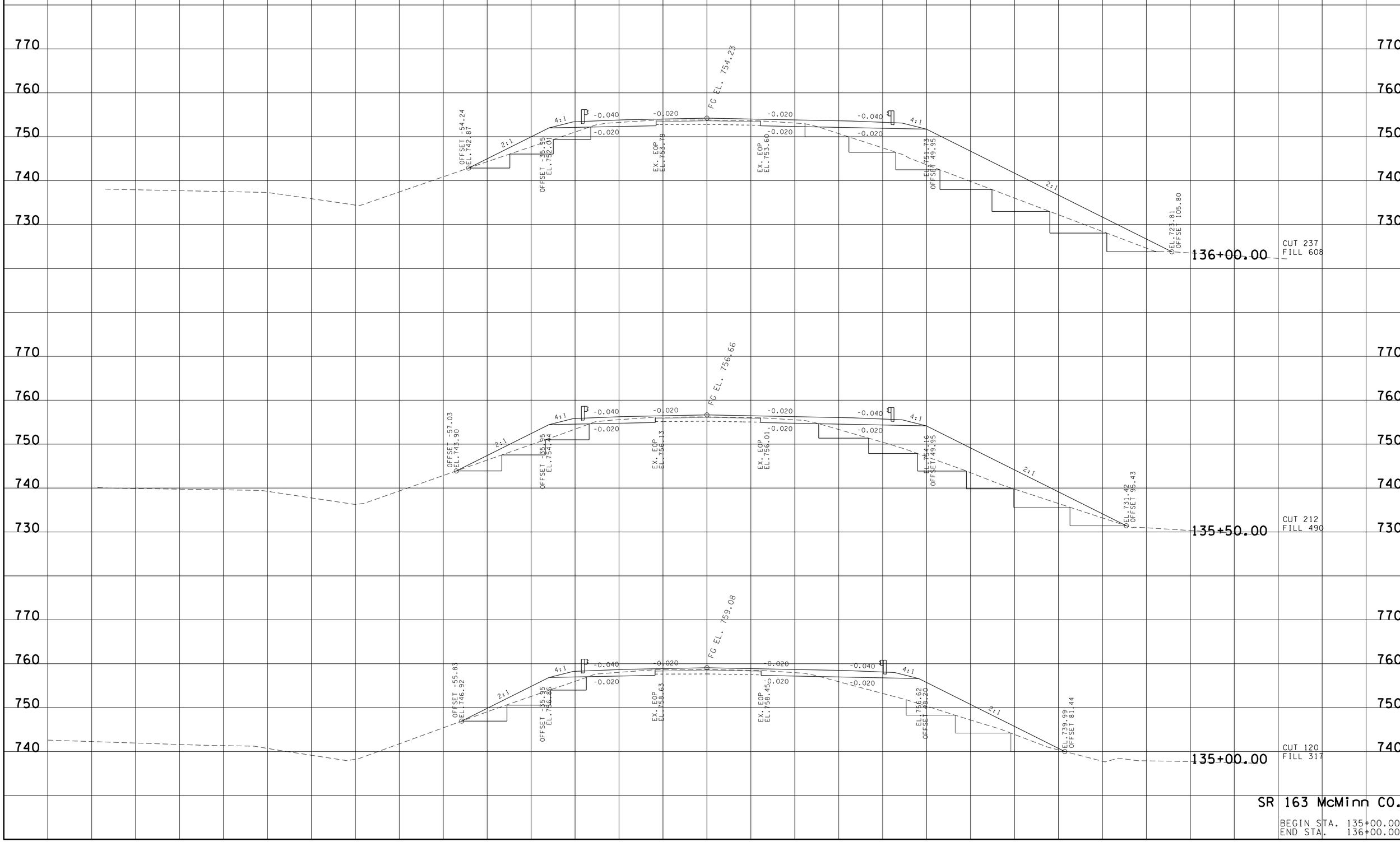
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	13
CONST.	2015	54013-3216-04	16

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

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END STA. 136+00.00

23-SEP-2015 14:20
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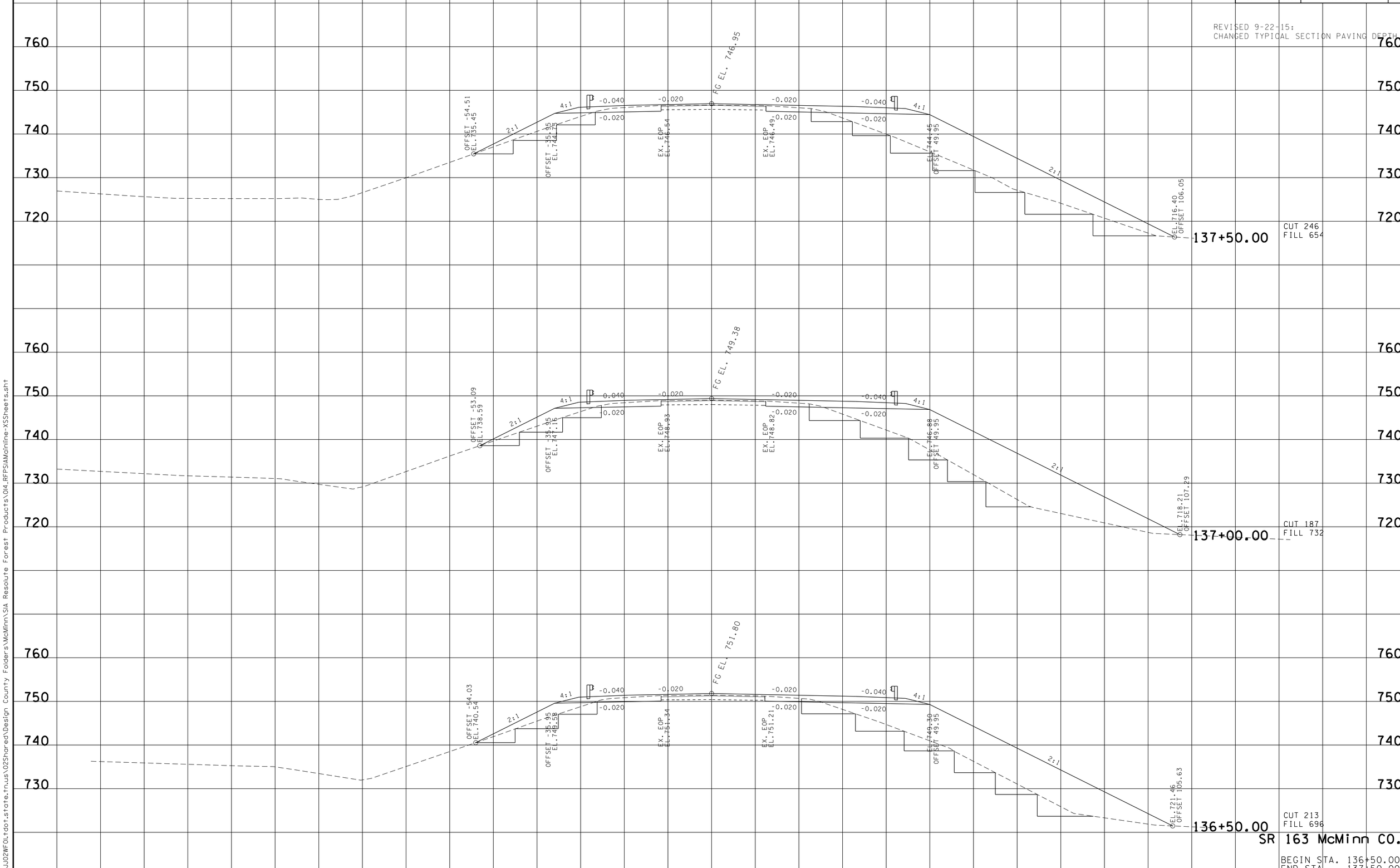
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	14
CONST.	2015	54013-3216-04	17

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH



SR 163 McMinn CO.

BEGIN STA. 136+50.00
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23-SEP-2015 14:20
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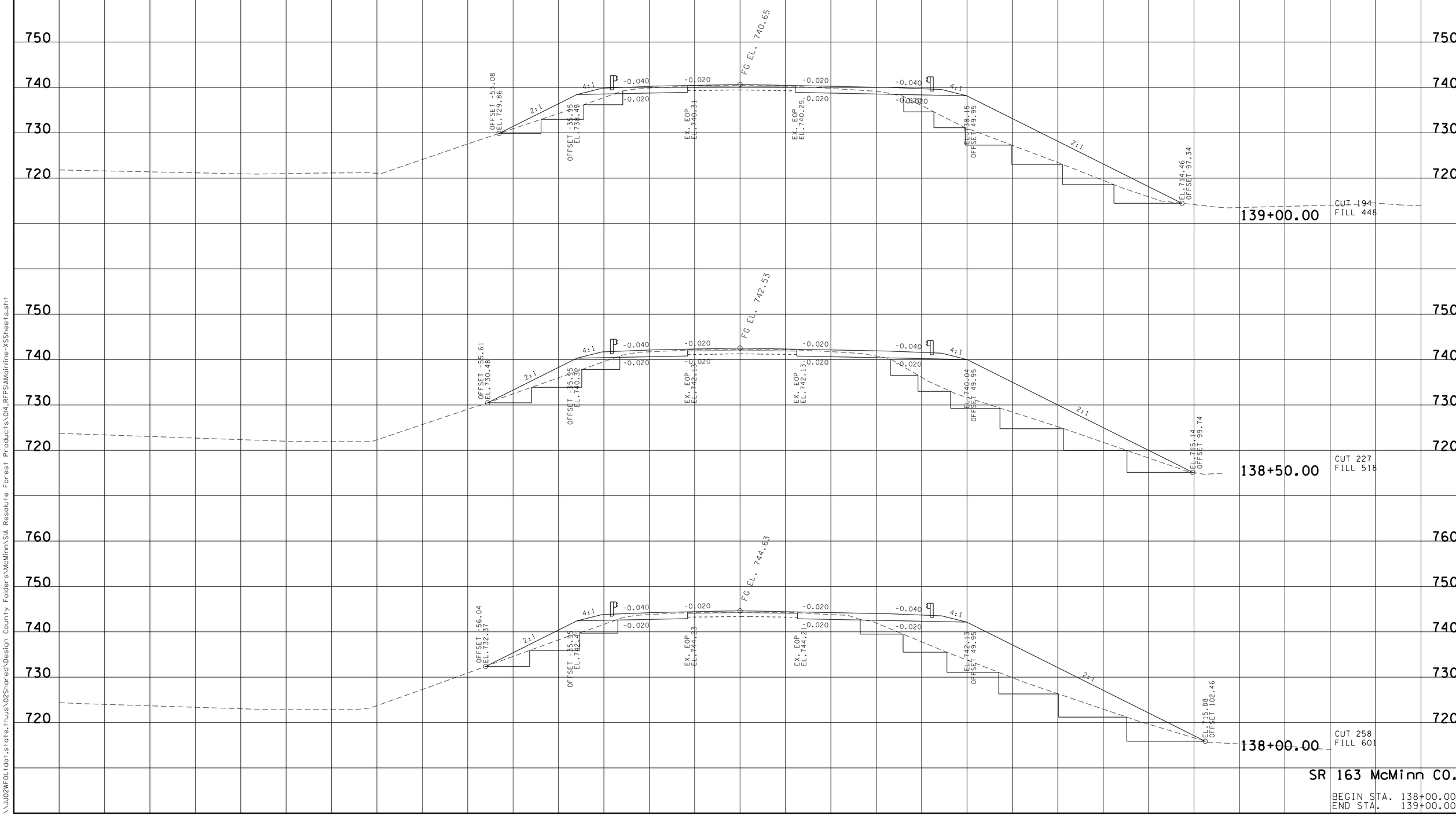
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	15
CONST.	2015	54013-3216-04	18

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

BEGIN STA. 138+00.00
END STA. 139+00.00

23-SEP-2015 14:20
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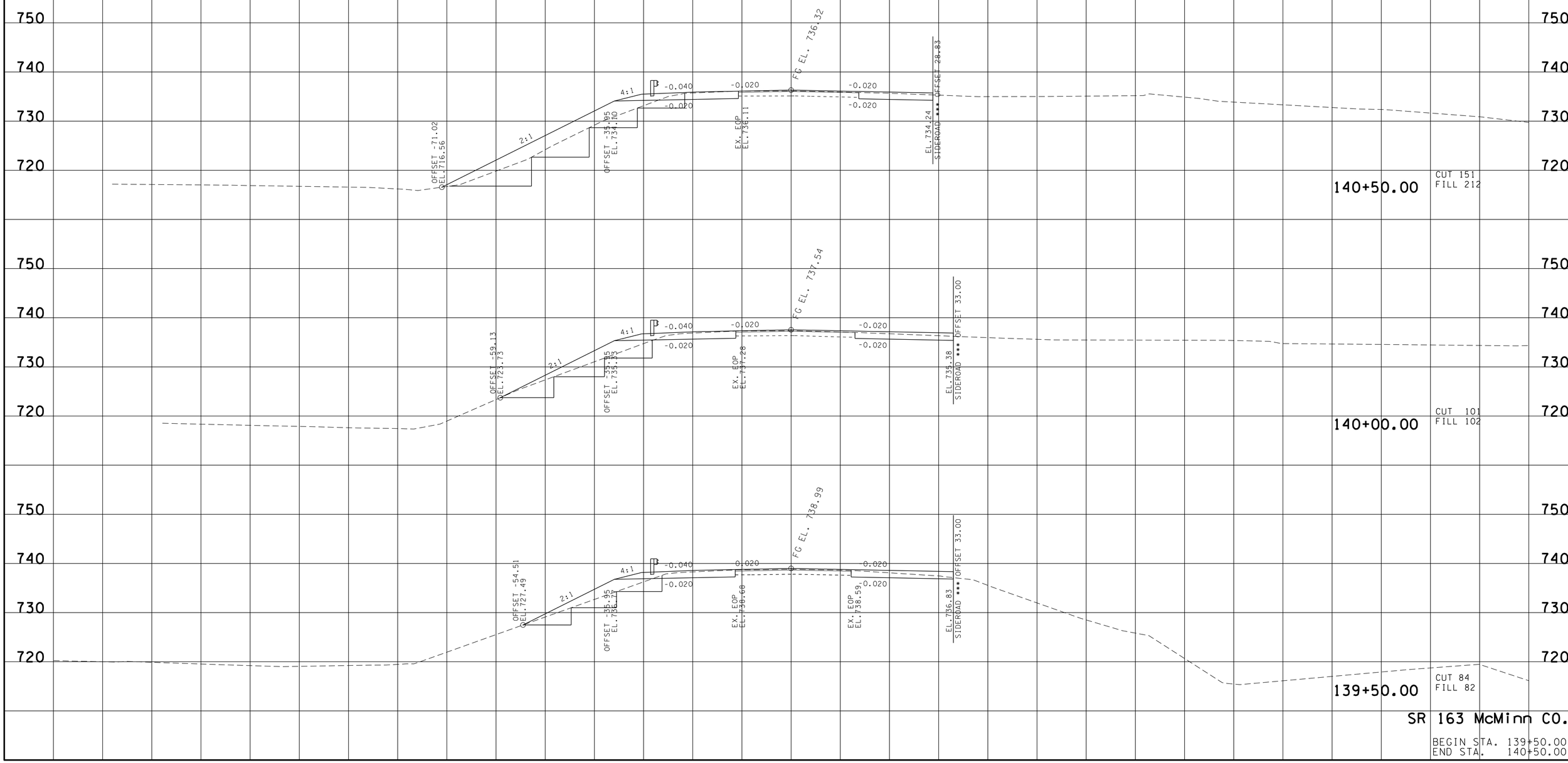
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	16
CONST.	2015	54013-3216-04	19

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

BEGIN STA. 139+50.00
END STA. 140+50.00

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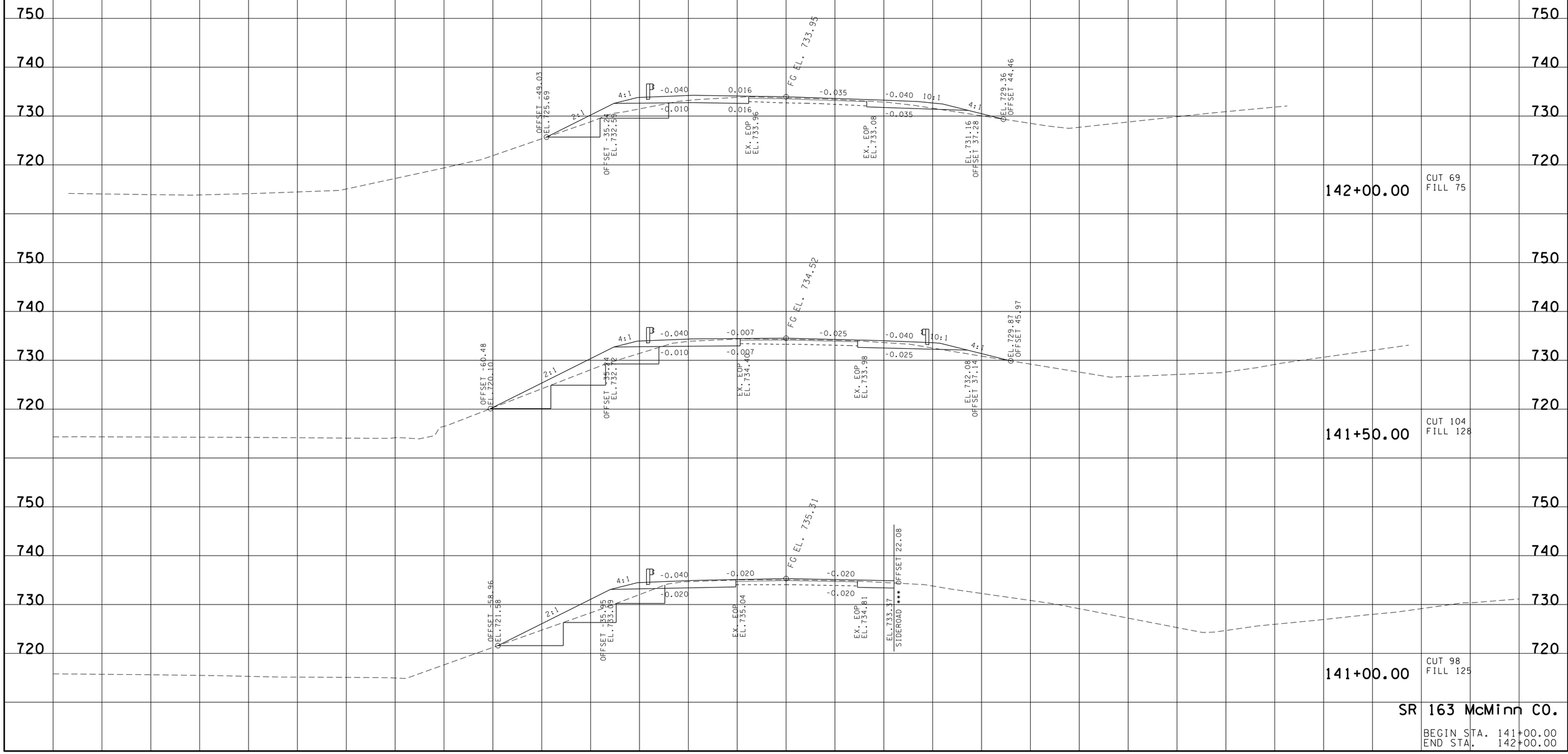
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	17
CONST.	2015	54013-3216-04	20

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

BEGIN STA. 141+00.00
END STA. 142+00.00

23-SEP-2015 14:20
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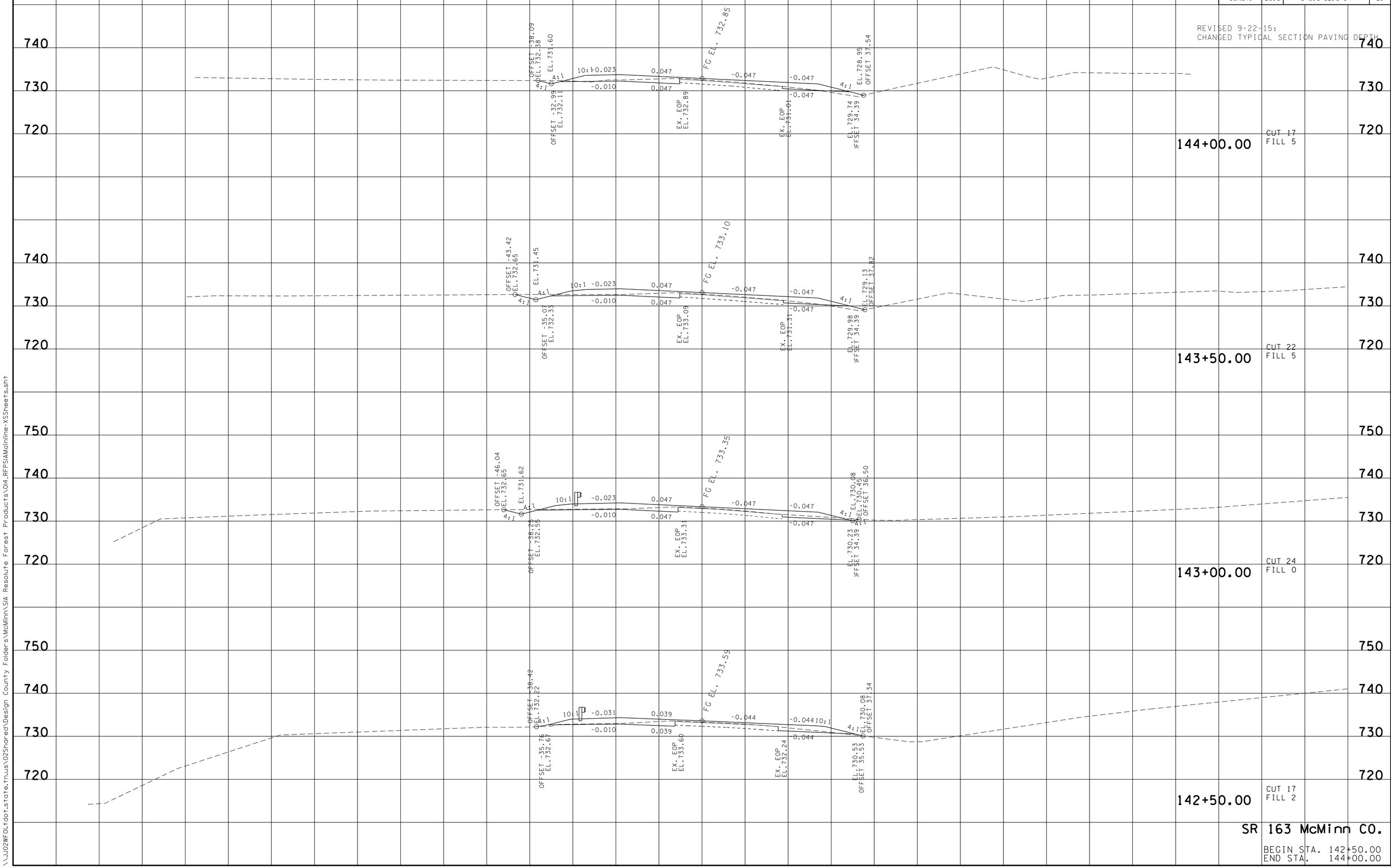
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	18
CONST.	2015	54013-3216-04	21

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH



SR 163 McMinn CO.

BEGIN STA. 142+50.00
END STA. 144+00.00

23-SEP-2015 14:20
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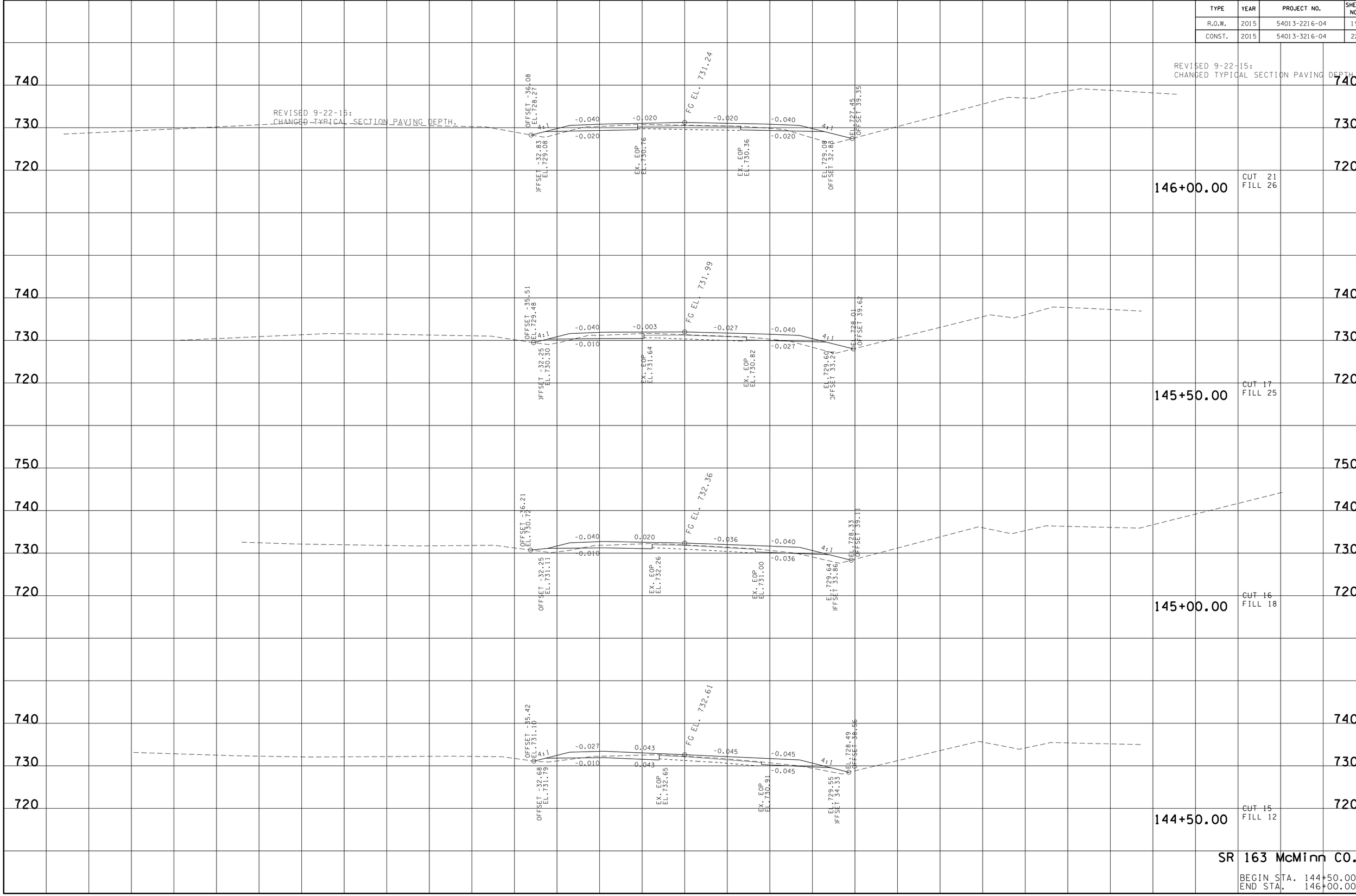
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	19
CONST.	2015	54013-3216-04	22



SR 163 McMinn CO.

BEGIN STA. 144+50.00
END STA. 146+00.00

23-SEP-2015 14:20
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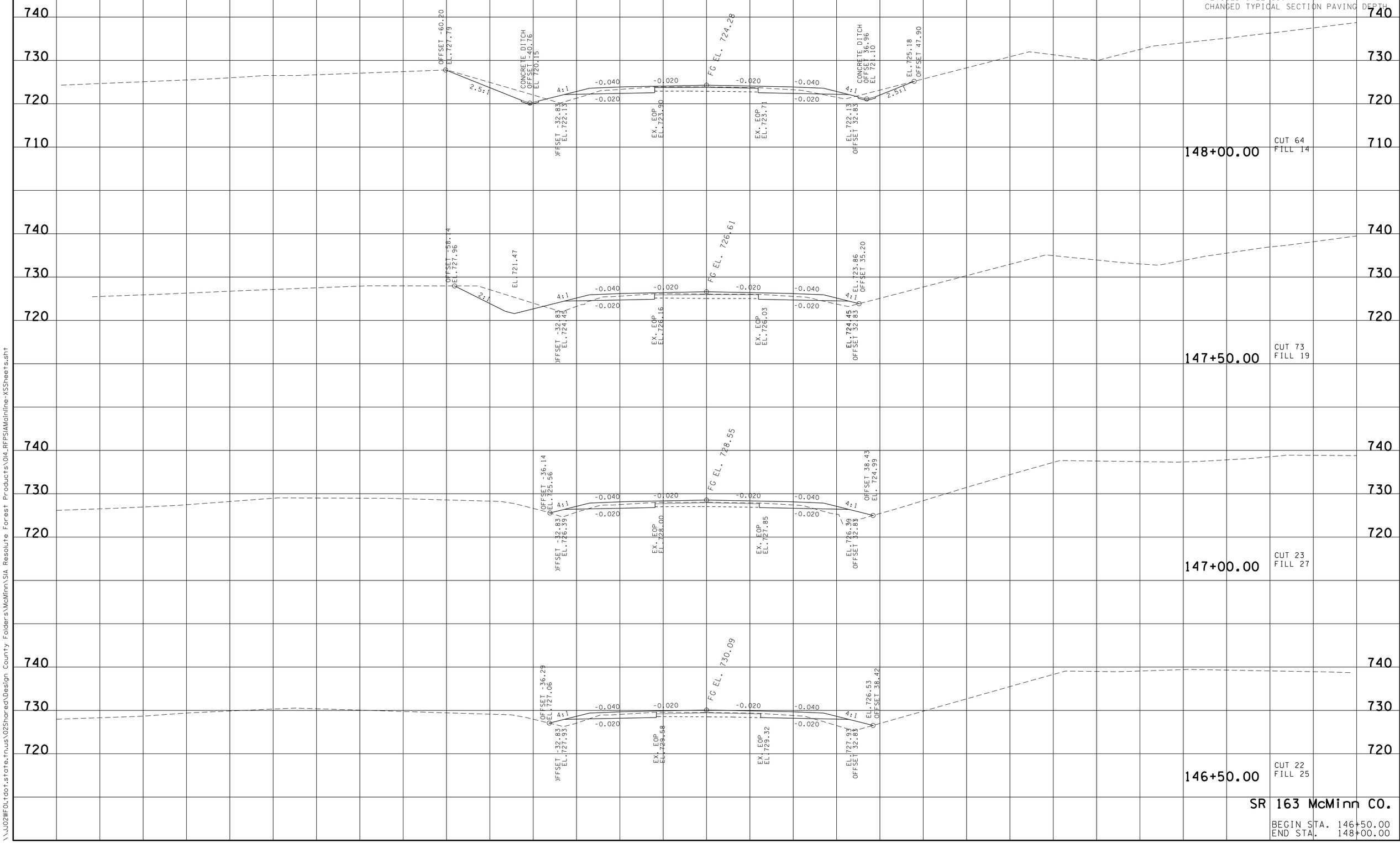
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	20
CONST.	2015	54013-3216-04	23

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH



SR 163 McMinn CO.

BEGIN STA. 146+50.00
END STA. 148+00.00

23-SEP-2015 14:20
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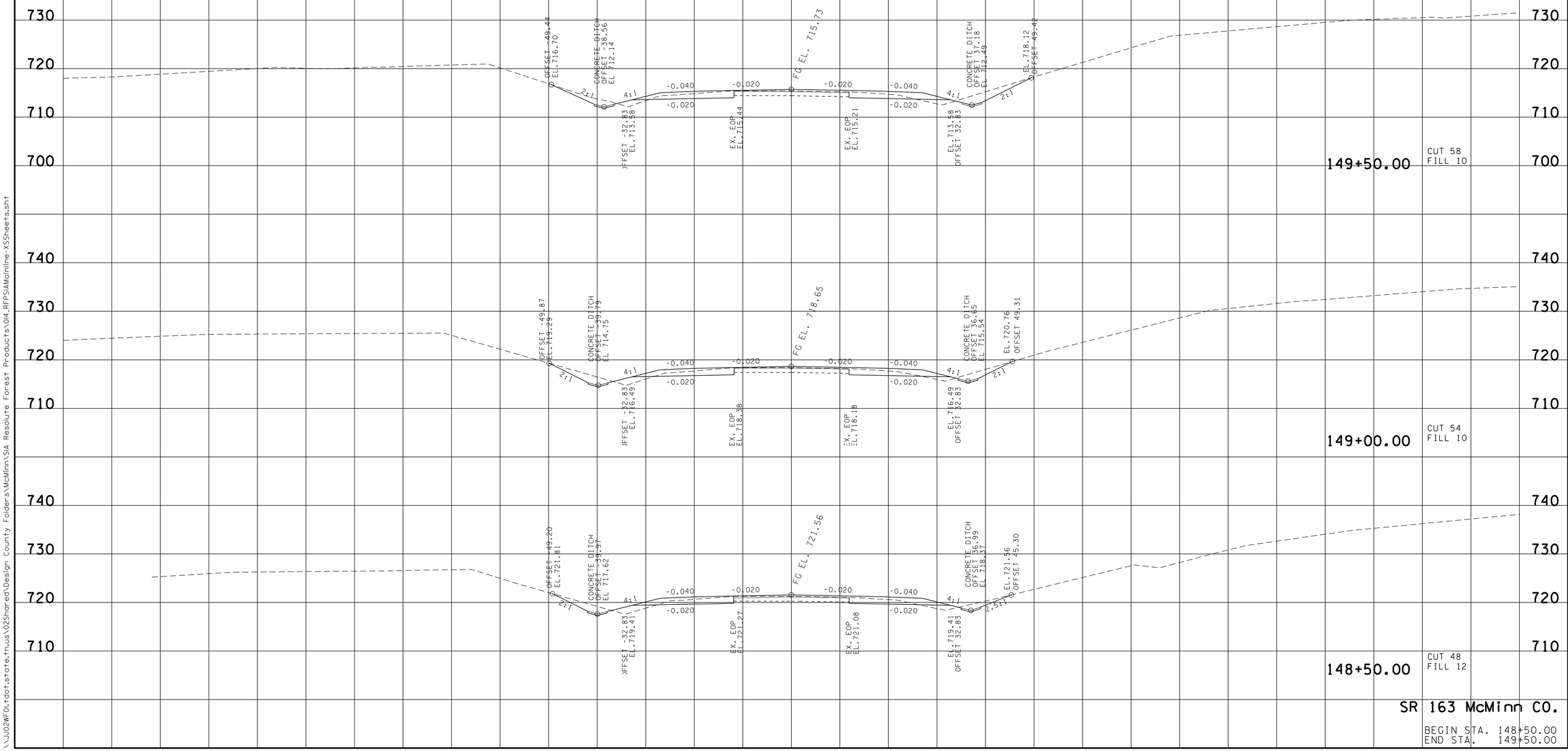
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	21
CONST.	2015	54013-3216-04	24

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

BEGIN STA. 148+50.00
END STA. 149+50.00

23-SEP-2015 14:20
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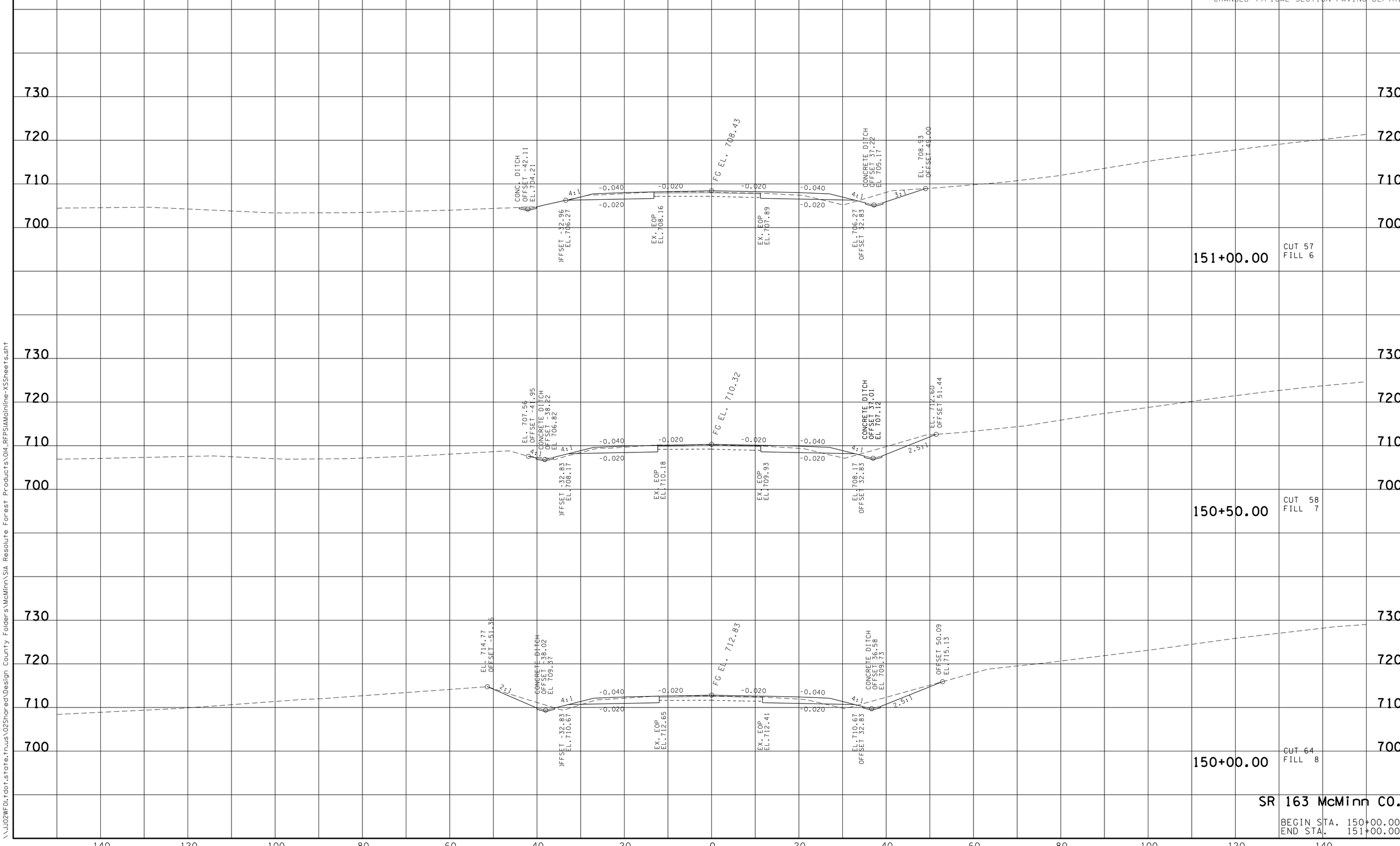
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	22
CONST.	2015	54013-3216-04	25

REVISED 9-22-15:
CHANGED TYPICAL SECTION PAVING DEPTH.



SR 163 McMinn CO.

BEGIN STA. 150+00.00
END STA. 151+00.00

23-SEP-2015 14:20
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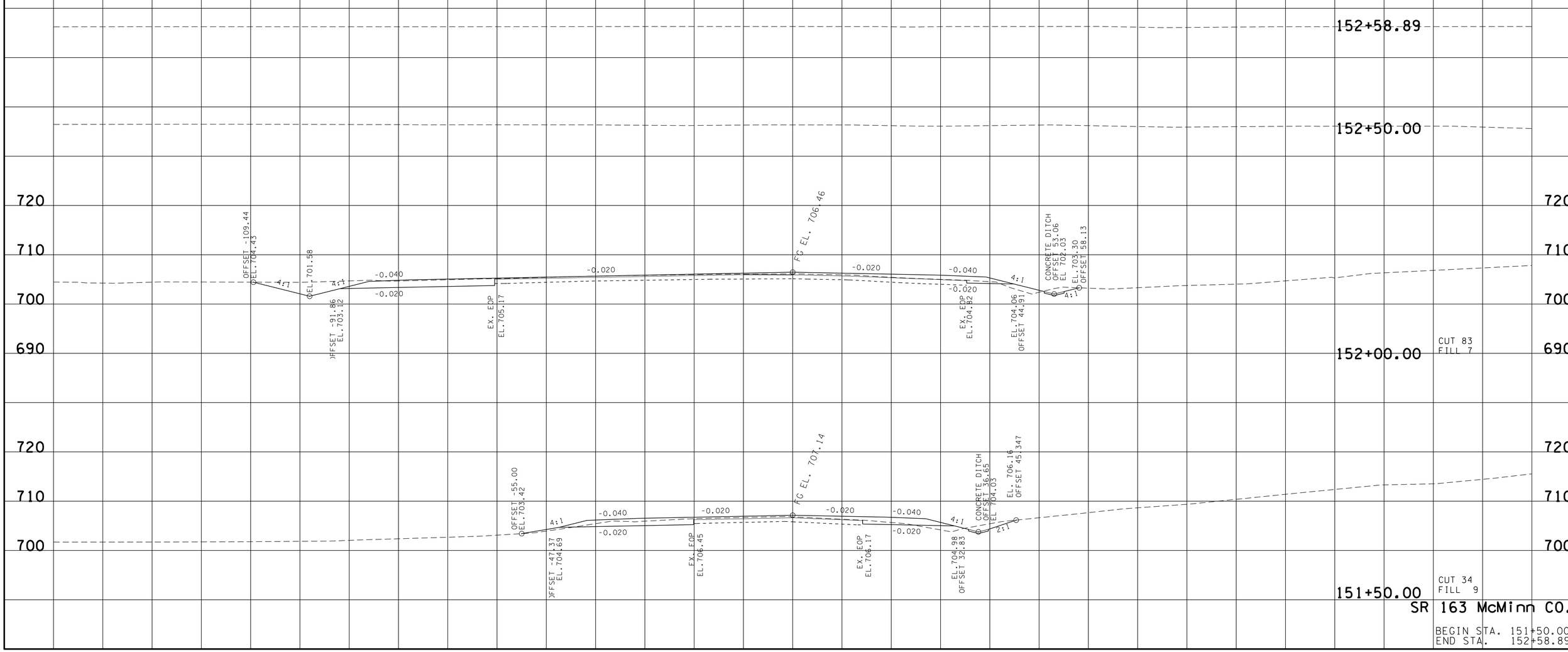
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	23
CONST.	2015	54013-3216-04	26



SR 163 McMinn CO.

BEGIN STA. 151+50.00
END STA. 152+58.89

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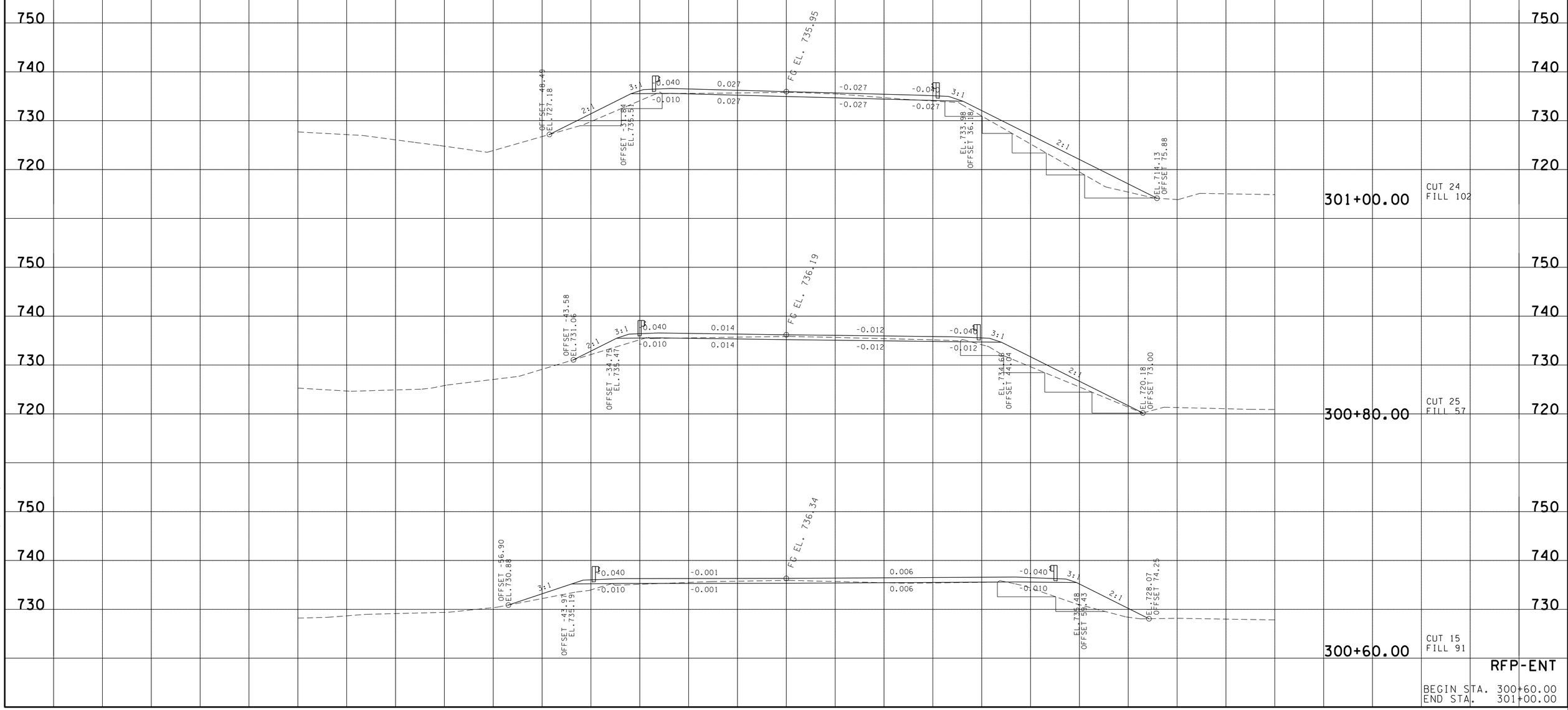
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	24
CONST.	2015	54013-3216-04	27



RFP-ENT

BEGIN STA. 300+60.00
END STA. 301+00.00

23-SEP-2015 14:21
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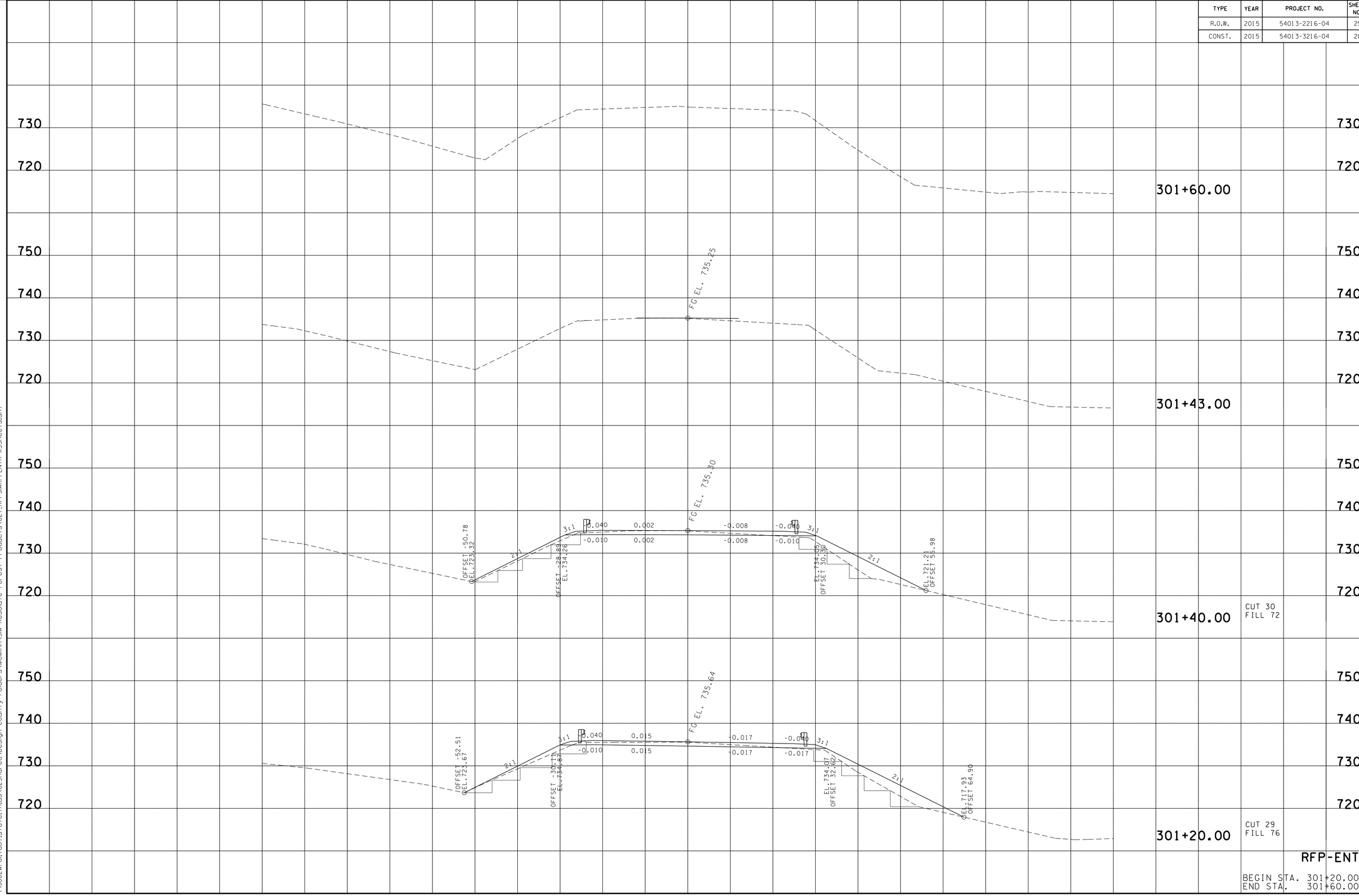
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2015	54013-2216-04	25
CONST.	2015	54013-3216-04	28



RFP-ENT

BEGIN STA. 301+20.00
END STA. 301+60.00

23-SEP-2015 14:21
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