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

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	NH-I-40-1(283)20	
STATE PROJ. NO.	79903-3114-44	

INDEX OF DRAWINGS
SEE SHEET IA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

SHELBY COUNTY

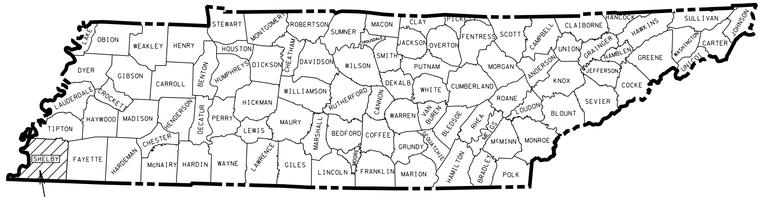
UNOFFICIAL SET

NOT FOR BIDDING

GRADE, DRAIN, CONSTRUCT WALLS, BRIDGE & PAVE
I-40(L.M. 20) INTERCHANGE
@ CANADA ROAD
L.M. 20

CONSTRUCTION PLANS

STATE HIGHWAY NO. F.A.H.S. NO. I-40



79903-3114-44
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STA. 228+50.00 CANADA ROAD
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79903-3114-44
LIMIT OF WORK PROJ. NO. NH-I-40-1(283)20 CONST.
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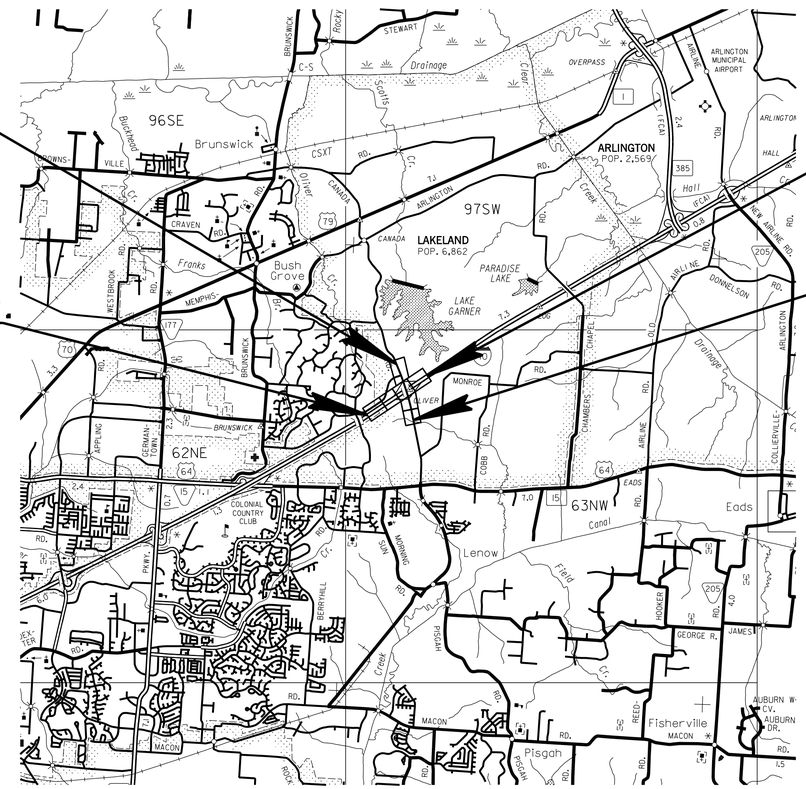

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STA. 518+33.46 I-40
N: 346402.7512
E: 854275.1407

79903-3114-44
BEGIN PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 192+77.34 CANADA ROAD
N: 343315.4518
E: 853076.0563

SEALED BY

NO EXCLUSIONS
NO EQUATIONS

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED FEBRUARY 14, 2014 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 1 OR
TDOT DESIGN MANAGER 1 JERRY G. HUGHES, SR.

TDOT ROAD SP. SV. 2

DESIGNED BY ALLEN & HOSHALL

DESIGNER C. ROBERT COCHRAN CHECKED BY EDWARD D. HOLLAND

P.E. NO. 79003-1183-44

PIN NO. 101604.00

ROADWAY LENGTH - CANADA ROAD	0.612 MILES
ROADWAY LENGTH - I-40	0.413 MILES
BRIDGE LENGTH	0.032 MILES
PROJECT LENGTH	1.057 MILES

I-40 TRAFFIC DATA	
ADT (2014)	60750
ADT (2034)	92480
DHV (2034)	8141
D	60 - 40
T (ADT)	24 %
T (DHV)	16 %
V	70 MPH

CANADA ROAD TRAFFIC DATA	
ADT (2014)	12220
ADT (2034)	23250
DHV (2034)	2946
D	70 - 30
T (ADT)	4 %
T (DHV)	3 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

3/18/2014 10:16:47 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	1A

SHELBY CO. I-40

INDEX

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ESTIMATED ROADWAY QUANTITIES	2A – 2C, 2C-1
TYPICAL SECTIONS AND PAVING SCHEDULE	2D – 2O
GENERAL NOTES AND SPECIAL NOTES	2P – 2U
DETAIL SHEETS	2V
TABULATED QUANTITIES	2W – 2W5
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STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	S-1

STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
STD-1-2	03-28-08	DECK DRAINS AND SLIDER PLATES
STD-1-5	06-01-11	REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS
STD-1-6	04-28-97	BRIDGE END DRAIN DETAILS 2'X8'X7' & 4'X8'X7' WITH PAVEMENT AT BRIDGE ENDS
STD-1-7	08-24-11	BRIDGE END DRAIN DETAILS 2'X8'X7' & 4'X8'X7' WITH PAVEMENT AT BRIDGE ENDS
STD-1-9	05-01-95	BRIDGE END DRAIN DETAILS 4'X8'X7' WITH PAVEMENT AT BRIDGE ENDS
STD-4-1	04-08-05	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS
STD-4-2	04-08-05	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA
STD-4-3	03-02-02	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
STD-4-4	06-10-96	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS
STD-5-1	10-25-93	STANDARD PILE DETAILS
STD-6-1	11-01-10	STANDARD SEISMIC DETAILS
STD-6-2	11-07-94	STANDARD SEISMIC DETAILS
STD-8-2SS		SINGLE SLOPE PARAPET STANDARD LIGHT SUPPORT DETAILS
STD-9-1	10-07-08	REINF. BAR SUPPORT DETAILS FOR CONC. SLABS
STD-10-1	04-08-05	MISC.ABUTMENT & DRAINAGE DETAILS
STD-14-1	1015-08	STD. DETAILS AND INT. DIAPH. DETAILS FOR BULB-TEE BEAMS
STD-11-1	08-13-02	BRIDGE RAILING WITH STRUCTURAL TUBING

ROADWAY DESIGN STANDARDS

DWG. NO	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-6	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-8		LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-S-12	08-01-09	CLEAR ZONE CRITERIA
RD01-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN & SLOPE PROTECTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5	10-15-02	DESIGN STANDARDS FREEWAYS WITH DEPRESSED MEDIANS
RD01-TS-5A	10-15-02	DESIGN STANDARDS FREEWAYS WITH INDEPENDENT ROADWAYS
RD01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RD01-TS-5W		TYPICAL DETAIL FOR INSIDE LANE WIDENING OF FREEWAYS
RD01-TS-6	10-15-02	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-6A	01-24-12	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RD01-TS-7	10-15-02	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2-WAY LEFT-TURN LANE

DRAINAGE - CULVERTS AND ENDWALL

DWG. NO	REV.	DESCRIPTION
D-FLU-1		FLUME DETAILS
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-3B(1)	07-17-07	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPES GRATE (FOR 18" THRU 48" PIPES) (3:1 SLOPE)
D-PE-3B(2)	05-27-01	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 3:1 SLOPE
D-PE-4	01-15-13	STRAIGHT CONCRETE ENDWALL
D-PE-4B(1)	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 4:1 SLOPE
D-PE-4B(2)	07-17-07	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 4:1 SLOPE
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
D-PE-6B(1)	03-30-00	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 6:1 SLOPE
D-PE-6B(2)	07-19-10	CONCRETE ENDWALL TYPE "U" WITH STEEL PIPE GRATE FOR 18" THRU 48" PIPES 6:1 SLOPE
D-PE-7	05-27-01	STANDARD STRAIGHT ENDWALLS FLATBASE CONCRETE PIPES
D-PE-7A	05-27-01	STANDARD WINGWALLS FLATBASE CONCRETE PIPES
D-PE-8	01-19-97	DETAIL OF STANDARD PIPE AND PIPE-ARCH CULVERT WITH BEVELED ENDS AND RIP-RAP
D-PE-9	04-25-90	CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE TAPERED INLETS, PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9A	10-25-82	GENERAL DIMENSION QUANTITIES ROUND PIPE CONCRETE ENDWALLS TYPE "B" (PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9B		GEN. DIMENSIONS AND QUANTITIES, SIDE TAPER INLETS CONCRETE ENDWALLS - TYPE "B" (PIPE SIZES 15" TO 78" ALL SKEWS 2:1 & 4:1 SLOPES)
D-PE-9C		BILL OF STEEL (SHEET 1 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEW, 2:1 SLOPE)

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DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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D-PE-9D		BILL OF STEEL (SHEET 2 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZES 15" - 78", ALL SKEWS, 4:1 SLOPE)
D-PE-9E		BILL OF STEEL (SHEET 3 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEWS, 2:1 SLOPE)
D-PE-9F		BILL OF STEEL (SHEET 4 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" TO 78", ALL SKEWS, 4:1 SLOPE)
D-PE-18A		18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-24A		24” CONCRRETE ENDWALL CROSS DRAIN
D-PE-24B		24” CONCRRETE ENDWALL CROSS DRAIN
D-PE-30A		30” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36A		36” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A		48” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48B		48” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99		PIPE GRATE & SKEWED CONNECTION DETAILS FOR “U” ENDWALLSCONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE
D-SEW-1A	01-10-13	SIDE DRAIN CONCRRETE ENDWALL WITH STEEL PIPE GRATE
D-SEW-6DA	07-19-10	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" THRU 48" PIPES - 6:1 SLOPE
D-SEW-6DB	10-26-92	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" THRU 48" PIPES - 6:1 SLOPE
D-SEW-6DC	07-19-10	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 18" THRU 30" PIPES - 6:1 SLOPE
D-SEW-6DD	04-15-05	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 18" THRU 30" PIPES - 6:1 SLOPE

DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-12B	09-24-12	STANDARD RECTANGULAR BRICK NO. 12 CATCH BASIN
D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12P	09-24-12	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12S	09-24-12	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14P	09-24-12	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	08-15-12	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-14S	09-24-12	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
D-CB-38RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-39RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 39 CATCH BASIN
D-CB-39S	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-40S	08-01-12	STANDARD 4' X 8' RECTANGULAR CONCRETE NO. 40. CATCH BASIN
D-CB-40SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 40. CATCH BASIN
D-CB-41LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 41LP CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41P	09-24-12	STANDARD 4' X 3' PRECAST RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41S	09-24-12	STANDARD 4' X 3' RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-42RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-43R	09-24-12	STANDARD PRECAST CIRCULAR NO. 43R CATCH BASIN
D-CB-43SB	09-24-12	STANDARD 8' X 4' RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
D-CB-43SC	09-24-12	STANDARD 8' X 5'2" RECTANGULAR CONCRETE NO. 43SC CATCH BASIN
D-CB-46SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 46 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-51SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 51 CATCH BASIN (FOR USE IN FRONT OF CONCRETE RETAINING WALL)
D-CB-51SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 51 CATCH BASIN (FOR USE IN FRONT OF CONCRETE RETAINING WALL)
D-CB-51SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 51 CATCH BASIN
D-CB-52SE	08-01-12	STANDARD 9' x 9' SQUARE CONCRETE NO. 52 CATCH BASIN
D-CB-99		MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	09-24-12	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, & 17 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
D-MH-2	08-01-12	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	08-01-12	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-3A	08-01-12	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE (96" AND 108" DIA.)
D-MH-3B		STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE (120" DIA.)
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-RF-1		STANDARD PRECAST RISER
D-TD-1		TRENCH DRAIN

ROADWAY AND PAVEMENT APPURTENANCES

RP-CS-1	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 4-LANE DIVIDED HIGHWAY)
RP-CS-2	09-29-10	CONCRETE SHOULDER RUMBLE STRIP DETAIL (FOR 6-LANE OR WIDER DIVIDED HIGHWAY)
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-H-3	05-08-13	HANDICAP RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	01-15-13	PERPENDICULAR CURB RAMP
RP-H-5	01-15-13	PARALLEL CURB RAMP
RP-H-6	04-13-11	MEDIAN CROSSING
RP-H-7	05-08-13	PERPENDICULAR HANDICAP RAMP FOR 20’ THRU 60’ RADIUS
RP-H-8	05-08-13	PERPENDICULAR HANDICAP RAMP FOR 20’ THRU 60’ RADIUS
RP-H-9	05-08-13	PARALLEL HANDICAP RAMP FOR 20’ THRU 60’ RADIUS
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	07-01-01	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	01-30-12	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	1B

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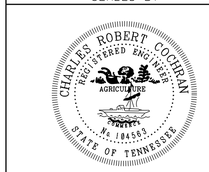

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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RP-J-11	07-29-96	3/4" AND 1-3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	03-20-91	3/4" AND 1-3/4" ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-J-17	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-18	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-19	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-23	07-25-12	CONCRETE PAVEMENT REPAIR DETAILS
RP-J-24	05-27-01	CONCRETE PAVEMENT SPALL AND RANDOM CRACK REPAIR DETAILS
RP-J-25	05-27-01	CONCRETE PAVEMENT JOINT REPAIR DETAILS
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
RP-S-7	05-07-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS

SAFETY APPURTENANCES AND FENCE

S-CC-1		CRASH CUSHION
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	05-14-10	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS
S-F-10D		RIGHT-OF-WAY FENCE LOCATIONS AT INTERCHANGES
S-GR-11	11-26-07	W-BEAM & THRIE BEAM BARRIER RAIL AND RUB RAIL ALTERNATES
S-GR-12	05-27-03	W-BEAM BARRIER POST DETAILS AND SPECIFICATIONS
S-GR-13	05-27-03	BARRIER RAIL MOUNTING, POST BLOCK-OUTS WITH VERTICAL ADJUSTMENT HOLES
S-GR-13A		BARRIER RAIL MOUNTING POST FOR PLASTIC BLOCK-OUTS WITH HORIZONTAL ADJUSTMENT HOLES
S-GR-14	04-17-12	W-BEAM BARRIER FASTENING HARDWARE AND BRIDGE APPROACH DELINEATORS
S-GR-15	06-30-05	W-BEAM BARRIER TERMINAL ELEMENT DETAILS
S-GR-16	05-27-01	GUARDRAIL BARRIER TREATMENT FOR PIERS IN MEDIAN
S-GR-18	05-15-08	GUARDRAIL TERMINAL (TYPE IN-LINE) AND SHOULDER LINE DETAIL
S-GR-20	05-27-01	MEDIAN DIVIDER GUARDRAIL AND GUARDRAIL TERMINAL ANCHORS
S-GR-21	06-30-09	LENGTH OF NEED AND TERMINAL REQUIREMENTS IN FILLS
S-GR-23	09-11-02	GUARDRAIL ATTACHMENT TO STRUCTURES AND PROTECTIVE GUARDRAIL AT BRIDGE END DETAILS
S-GR-24	05-15-08	GUARDRAIL END TERMINALS AT BRIDGE ENDS
S-GR-26	08-23-12	SLOTTED GUARDRAIL TERMINAL ANCHOR (TYPE 21)
S-GR-27	05-27-03	GUARDRAIL TERMINAL ANCHOR (TYPE 21) ELEMENT ASSEMBLY DETAILS
S-GR-28	06-30-05	GUARDRAIL TERMINAL ANCHOR (TYPE 21) POST AND ASSEMBLY DETAILS
S-GR-38	08-16-12	DETAILS FOR CONSTRUCTION OF EARTH PAD FOR TYPE 38 GUARDRAIL END TERMINAL
S-GR-38A	06-30-05	DETAILS FOR CONSTRUCTION OF ALTERNATE EARTH PAD FOR TYPE 38 GUARDRAIL END TERMINALS
S-GR-39	05-27-01	DETAILS FOR CONSTRUCTION OF EARTH PAD FOR TYPE 21 GUARDRAIL END TERMINALS
S-GR-43		TANGENTIAL GUARDRAIL TERMINAL ANCHOR (TYPE 38) POST LAYOUT AND ERECTION DETAILS
S-GR-44		TANGENTIAL GUARDRAIL TERMINAL ANCHOR (TYPE 38) (2 TUBE) GUARDRAIL ELEMENT POST AND ASSEMBLY DETAILS
S-GR-46		CURVED GUARDRAIL
S-MB-1	06-06-11	STANDARD CONCRETE MEDIAN BARRIER
S-MB-2	05-27-01	STANDARD CONCRETE MEDIAN BARRIER (BRIDGE PIER PROTECTION)
S-MB-7		STANDARD DETAILS FOR CONCRETE BARRIER WALL INCLUDING GUARDRAIL ATTACHMENT
S-MB-8		STANDARD DETAILS FOR CONCRETE BARRIER WALL AT BRIDGE BENTS INCLUDING GUARDRAIL ATTACHMENT
S-SSMB-1	08-19-13	32" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-2	08-19-13	51" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-3	07-16-13	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-4	07-30-10	FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL (VERTICAL BACK)
S-SSMB-5		SINGLE SLOPE MEDIAN BARRIER WALL CATCH BASIN DETAIL
S-SSMB-6	10-24-13	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-7		FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 32" MEDIAN BARRIER WALL
S-SSMB-8		FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 51" MEDIAN BARRIER WALL
S-SSMB-9	07-16-13	SINGLE SLOPE BARRIER WALL FOR GRADE SEPARATED MEDIAN

TRAFFIC CONTROL APPURTENANCES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS
T-FO-3		FIBER OPTIC AERIAL CONNECTION DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS
T-L-1	02-15-07	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	07-29-04	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-2	09-11-03	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON A CONCRETE MEDIAN BARRIER
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	08-16-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	11-01-11	MARKING DETAILS FOR RAMP INTERSECTIONS
T-M-10	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR SHARED-USE PATHS
T-M-11	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AND ROUTES ON RURAL ROADS
T-M-12	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR URBAN BICYCLE LANES
T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-14	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-M-16	11-01-11	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16A		ASPHALT CENTER LINE RUMBLE STRIPE
T-M-17		PAVEMENT MARKING DETAILS FOR ROUNDABOUTS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	10-10-06	DETAIL FOR VERTICAL PANELS AND FLEXIBLE
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	05-27-03	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	10-26-96	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	05-27-01	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-29-91	STANDARD MEMBERS BENDAWAY SIGN SUPPORTS STEEL DESIGN
T-S-20	11-01-11	SIGN DETAILS
T-S-21	02-28-13	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-SG-2	07-29-04	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A		ALTERNATE DETECTION DETAILS
T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	07-29-04	CONTROLLER CABINET DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	1C

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	1D

SHELBY CO. I-40

T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-8	11-01-11	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9	11-16-07	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A		MISCELLANEOUS SIGNAL DETAILS
T-SG-10	05-06-13	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-29-04	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-13-09	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-13-09	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-19	04-02-12	MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-20	12-18-99	GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-21	03-15-11	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
T-WZ-31	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)
T-WZ-32	03-03-06	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-33	05-27-98	TRAFFIC CONTROL PLAN FOR CLOSE INTERSECTION CONDITIONS USING TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-34	09-01-05	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-35	04-02-12	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-36	04-02-12	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
T-WZ-40	04-02-12	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	04-02-12	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-42	04-02-12	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3D	04-01-08	ENHANCED SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-4	08-01-12	ENCHANCED SILT FENCE CHECK (TRAPEZOIDAL DITCH)
EC-STR-4A	08-01-12	ENCHANCED SILT FENCE CHECK (V-DITCH)
EC-STR-4B	08-01-12	ENCHANCED SILT FENCE CHECK DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-8	08-01-12	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2A

SHELBY CO. I-40

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
13 14	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
	203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.	270391
	203-06	WATER	M.G.	83
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	917
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	101
	204-10.01	FOUNDATION PREPARATION (RETAINING WALLS)	LS	1
2	209-02.04	10" TEMPORARY SLOPE DRAIN	L.F.	123
	209-05	SEDIMENT REMOVAL	C.Y.	115
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	99
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	19950
	209-08.04	TEMPORARY ENHANCED SILT FENCE	L.F.	50
	209-08.05	ENHANCED SILT FENCE CHECK (V-DITCH)	EACH	12
	209-08.07	ROCK CHECK DAM PER	EACH	22
2	209-08.08	ENHANCED ROCK CHECK DAM	EACH	27
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	10
	209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH	64
	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	5
	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	17
	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	38
22 24	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	52830
2 4	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	354
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	660
19	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3743
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	5067
24	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	141
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	3839
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	3328
	307-03.01	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A	TON	20650
	307-03.02	PERF. GRADE ASPH. CEMENT(PG76-22)GRADING AS	TON	191
	307-03.03	AGGREGATE(BPMB-HM) GRADING AS	TON	5661
	307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	3540
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	17330
	309-01.02	PORTLAND CEMENT (A-CBC)	TON	680
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	59
	313-03	TREATED PERMEABLE BASE	S.Y.	19990
21	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	200
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	90
13 27	407-02.12	REMOVAL & DISPOSAL OF EXISTING ASHPHALT PAVEMENT	TON	6082
23	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	1522
20	411-01.10	ACS MIX(PG64-22) GRADING D	TON	640
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	1520
	411-03.10	ACS MIX(PG76-22) GRADING D	TON	2080
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	19990
28	504-01	CRACKING & SEATING CONCRETE PAVEMENT	S.Y.	12100
	606-24.12	TEMPORARY SHEET PILE	S.F.	11360
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	8497
	607-03.05	18" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	200
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1592
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	101
	607-07.05	36" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	65
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	87
	607-08.05	42" CONCRETE PIPE CULVERT(CLASS IV) JACKED-IN-PLACE	L.F.	65
	607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.	35

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	2
	611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	1
	611-02.11	JUNCTION BOX, TYPE 2	EACH	2
	611-05.01	TRENCH DRAINS	L.F.	180
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	36
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	2808
	611-07.03	STRUCTURAL STEEL (PIPE ENDWALLS)	LB.	308
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	4
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	23
	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	4
	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	10
	611-31.02	CATCH BASINS, TYPE 31, > 4' - 8' DEPTH	EACH	4
	611-31.03	CATCH BASINS, TYPE 31, > 8' - 12' DEPTH	EACH	1
	611-31.04	CATCH BASINS, TYPE 31, > 12' - 16' DEPTH	EACH	1
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	5
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	1
	611-39.02	CATCH BASINS, TYPE 39, > 4' - 8' DEPTH	EACH	2
	611-39.03	CATCH BASINS, TYPE 39, > 8' - 12' DEPTH	EACH	1
	611-40.02	CATCH BASINS, TYPE 40, > 4' - 8' DEPTH	EACH	1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	2
	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	3
	611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	EACH	1
	611-43.03	CATCH BASINS, TYPE 43, > 8' - 12' DEPTH	EACH	2
	611-46.02	CATCH BASINS, TYPE 46, > 4' - 8' DEPTH	EACH	1
	611-51.02	CATCH BASINS, TYPE 51, > 4' - 8' DEPTH	EACH	9
	611-52.02	CATCH BASINS, TYPE 52, > 4FT - 8FT DEPTH	EACH	2
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	66091
	701-02	CONCRETE DRIVEWAY	S.F.	2352
30	701-03	CONCRETE MEDIAN PAVEMENT	C.Y.	59
29	702-01	CONCRETE CURB	C.Y.	62
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	732
9	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	530
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	242
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	5499
	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	4
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	4
	705-08.13	PERMANENT IMPACT ATTENUATOR NCHRP350 TL-3	EACH	4
15 17 26	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	9
	707-06.01	REMOVAL OF FENCE	L.F.	4420
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	6811
	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	50
2 5 8	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	106
2 4 8	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1030
16	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	81
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	36100
	710-05	LATERAL UNDERDRAIN	L.F.	7900
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	81
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	20
	710-06.14	LATERAL UNDERDRAIN ENDWALL (5:1)	EACH	10
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	12
	711-05.71	51IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	2180
11	711-05.72	SINGLE SLOPE HALF CONCRETE BARRIER WALL	L.F.	3560
12 25	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	8850
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	770
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	38
	712-06	SIGNS (CONSTRUCTION)	SF	1980
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	380
	712-08.03	ARROW BOARD (TYPE C)	EACH	6

SEE SHEET 2B FOR FOOTNOTES.

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ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2B

SHELBY CO. I-40

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	5
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	645
	713-02.04	DELINEATOR (MILE MARKER) & STEEL POST	EACH	2
	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH	158
	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	46
	713-05	STEEL HOLLOW SQUARE POST (BREAKAWAY) SIGN SUPPORTS	LB.	1500
	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB.	5980
	713-09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 100'-0")	EACH	1
	713-09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN 80'-0")	EACH	1
	713-11.01	"U" SECTION STEEL POSTS	LB.	350
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	280
	713-11.05	SQUARE TUBE SIGN SUPPORT	LB.	250
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	390
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	460
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F.	830
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-15.35	METAL BARRICADE (TYPE III)	EACH	2
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	6
	713-16.07	END OF ROADWAY SIGN AND SUPPORT	EACH	2
10	713-16.41	RELOCATE SIGN	LS	1
	713-17.50	SIGN MOUNTED ON BRIDGE PARAPET	EACH	2
	713-30.09	BARRIER MOUNTED SIGN SUPPORT (W4-1R)	EACH	2
	713-30.10	BARRIER MOUNTED SIGN SUPPORT (E5-1A)	EACH	2
	716-01.23	Snwplwble Pvmt Mrkrs (Bi-Dir)(2 Color)	EACH	275
	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	575
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	9310
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	410
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	26
18	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	20
	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	10
	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	6
	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	130
	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	6
3	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	6.2
	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	54760
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	6.2
	716-08.02	REMOVAL OF PAVEMENT MARKING (8" BARRIER LINE)	L.F.	54760
	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	3.9
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	7.1
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	7750
	716-12.04	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	1945
	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	1850
	716-12.06	ENHANCED FLAT LINE THERMO (8IN LINE)	L.F.	36009
	717-01	MOBILIZATION	LS	1
2 4 5	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1747
2 3	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	4350
	801-01	SEEDING (WITH MULCH)	UNIT	90
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1650
	801-03	WATER (SEEDING & SODDING)	M.G.	1136
	803-01	SODDING (NEW SOD)	S.Y.	95360
	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	109
3 6	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	33380
1	806-02.03	PROJECT MOWING	CYCL	6

FOOTNOTES:

1. ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCLUDED IN THE COST OF ITEM 806-02.03, PROJECT MOWING, CYCL.
2. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
3. TO BE USED FOR TRAFFIC CONTROL AS DIRECTED BY THE ENGINEER.
4. TO BE USED FOR CONSTRUCTION OF CULVERT PROTECTION (TYPE I).
5. TO BE USED IN CONSTRUCTION OF TEMPORARY CONSTRUCTION EXIT.
6. TO BE USED ON ALL SLOPES 3:1 OR STEEPER.
7. NOT USED
8. TO BE USED FOR EROSION PREVENTION AND SEDIMENT CONTROL.
9. TO BE USED FOR CONSTRUCTION OF RETAINING WALLS.
10. INCLUDES MOUNTING EXISTING LOGO SIGNS TO PERMANENT POSTS.
11. USED @ THE I-40 RETAINING WALLS AND THE RETAINING WALL ADJACENT TO RAMP D.
12. INCLUDES REMOVAL OF CONFLICTING EXISTING PAVEMENT MARKINGS.
13. SALVAGEABLE MATERIALS IF ANY, SHALL BECOME PROPERTY OF THE CONTRACTOR.
14. INCLUDES BUT NOT LIMITED TO REMOVAL OF ITEMS SUCH AS, EXISTING DRAINAGE STRUCTURES, EXISTING CONCRETE BARRIER WALL, AND EXISTING GUARDRAIL AND TERMINALS.
15. SEE TRAFFIC CONTROL SHEET 46A.
16. TO BE USED FOR RIP-RAP APRONS AT PIPE OUTLETS.
17. THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
18. THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
19. INCLUDES 1014 TONS FOR SIDEROADS AND 219 TONS FOR PRIVATE DRIVES.
20. INCLUDES 490 TONS FOR SIDEROADS AND 150 TONS FOR PRIVATE DRIVES.
21. SEE PAVEMENT SCHEDULE (SHEET NO. 2O) FOR APPLICATION RATES.
22. INCLUDES 6926 TONS FOR SIDEROADS AND 564 TONS FOR PRIVATE DRIVES.
23. INCLUDES 82 TONS FOR SIDEROADS.
24. SEE TABULATED QUANTITES FOR TEMPORARY PAVEMENT QUANTITES.
25. INCLUDES MAINTENANCE AND RELOCATION OF LOGO SIGNS DURING CONSTRUCTION.
26. TDOT WILL ONLY PAY FOR THE MAXIMUM NUMBER OF PORTABLE IMPACT ATTENUATORS IN USE AT A GIVEN TIME.
27. TO BE USED FOR THE ASPHALT REMOVAL REQUIRED ON EXISTING I-40 WITHIN LIMITS OF THE WIDENING.
28. SEE "SPECIAL PROVISION #504 - REGARDING CRACKING AND SEATING CONCRETE PAVEMENT".
29. USED FOR THE RAISED MEDIANS ON CANADA ROAD.
30. USED FOR THE RAISED CONCRETE MEDIAN ON CANADA ROAD NORTH OF I-40.

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ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2C

SHELBY CO. I-40

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	713-15.07	SUSPENDED FLAT SHEET ALUMINUM SIGN (0.080" THICK)	EACH	8
2	713-15.40	SIGN INSTALLATION (MAST ARM MOUNTED STREET NAME SIGN)	LS	1
3	714-25.09	ELECTRICAL CONNECTION (FOR MLGW COST ONLY)	EACH	2
	725-02.79	FIBER SPLICE ENCLOSURE(WEATHER PROOF)	EACH	2
4	730-01.02	REMOVAL OF SIGNAL EQUIPMENT (PER INTERSECTION)	EACH	6
	730-02.08	SIGNAL HEAD ASSEMBLY (130 POLE MOUNTED)	EACH	2
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	15
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	5
	730-02.18	SIGNAL HEAD ASSEMBLY (150 A2V)	EACH	4
	730-02.30	SIGNAL HEAD ASSEMBLY (130 A2 WITH BACKPLATE)	EACH	4
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	15
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	3
5	730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH	6
6	730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	EACH	3
7	730-03.31	FIBER DISTRIBUTION BOX	EACH	2
8	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	2
	730-08.01	SIGNAL CABLE - 3 CONDUCTOR	L.F.	3250
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	4300
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	2700
9	730-08.40	INTERCONNECT CABLE - FIBER OPTIC (36-SMFO)	L.F.	1400
9	730-08.41	INTERCONNECT CABLE - FIBER OPTIC (DROP CABLE, 6-SMFO)	L.F.	175
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	25
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	2700
	730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	110
	730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	175
	730-12.14	CONDUIT 3" DIAMETER (JACK AND BORE)	L.F.	525
	730-12.16	CONDUIT (1" CONDUIT IN BRIDGE DECK)	L.F.	65
	730-12.17	CONDUIT (2" CONDUIT IN BRIDGE DECK)	L.F.	800
	730-12.18	CONDUIT (3" CONDUIT IN BRIDGE DECK)	L.F.	475
	725-12.42	CURB MARKER (CURB MOUNTED CABLE MARKER)	EACH	10
10	730-13.02	VEHICLE DETECTOR (VIDEO)	EACH	1
11	730-13.06	VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL)	EACH	2
12	730-13.08	VEHICLE DETECTOR (VIDEO/RADAR COMBINATION)	EACH	1
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	825
	730-14.02	SAW SLOT	L.F.	130
	730-14.03	LOOP WIRE	L.F.	420
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	2
13	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	2
	730-18.01	MASTER CONTROLLER	EACH	1
16	730-23.30	PEDESTAL POLE (BUILT INTO WALL - TOP OF POLE AT 10')	EACH	4
14	730-23.31	PEDESTAL POLE	EACH	4
15	730-23.36	CANTILEVER SIGNAL SUPPORT (1 ARM @ 81')	EACH	1
15	730-23.37	CANTILEVER SIGNAL SUPPORT (1 ARM @ 48')	EACH	1
15	730-23.38	CANTILEVER SIGNAL SUPPORT (1 ARM @ 62')	EACH	1
15	730-23.39	CANTILEVER SIGNAL SUPPORT (1 ARM @ 58')	EACH	1
16	730-23.96	CANTILEVER SIGNAL SUPPORT (2 @ 50' & 40')	EACH	1
16	730-23.97	CANTILEVER SIGNAL SUPPORT (2 @ 50' & 52')	EACH	1
17	730-26.05	COUNTDOWN PEDESTRIAN SIGNAL	EACH	16
18	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	3

FOOTNOTES:

1. TO INCLUDE ALL HARDWARE AND MATERIALS NECESSARY TO ATTACH

   4 - "LEFT TURN SIGNAL" R10-10
   4 - "LEFT TURN ONLY" R3-5L

2. TO INCLUDE ALL HARDWARE AND MATERIALS NECESSARY TO ATTACH STREET NAME SIGNS TO PROPOSED MAST ARM. TO BE TEN (10) TOTAL SIGNS. SEE SHEETS 56 AND 56B FOR SIGN DETAILS AND PLACEMENT.

   6 - "CANADA RD."
   2 - "BEVERLE RIVERA DR."
   2 - "DAVIES PLANTATION RD."

3. CONTRACTOR SHALL BE RESPONSIBLE FOR MLGW COST ASSOCIATED WITH POWER CONNECTION FOR THE TRAFFIC SIGNAL FROM THE TRANSFORMER TO THE DEMARCATION POINT.

4. TO BE USED FOR REMOVAL AND RESET OF TEMPORARY SIGNALS AS INDICATED ON THE CONSTRUCTION PHASING PLANS OR AS DIRECTED BY THE ENGINEER.

5. QUAZITE BRAND (MODEL NO. PG2436BB24 WITH PG2436HH6L COVER) OR APPROVED EQUIVALENT. COST INCLUDES ALL LABOR AND MATERIALS (REMOVING AND REPLACING NECESSARY SIDE WALK PANELS, REPAIR LANDSCAPING, REMOVING EXISTING PULL BOX, AND OTHER MISCELLANEOUS MATERIALS) TO COMPLETE PULL BOX INSTALLATION.

6. QUAZITE BRAND (MODEL NO. PG3048BB36 WITH PG3048HS6L COVER) OR APPROVED EQUIVALENT. COST INCLUDES ALL LABOR AND MATERIALS (REMOVING AND REPLACING NECESSARY SIDE WALK PANELS, REPAIR LANDSCAPING, REMOVING EXISTING PULL BOX, AND OTHER MISCELLANEOUS MATERIALS) TO COMPLETE PULL BOX INSTALLATION.

7. TO BE INSTALLED IN THE CABINET.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH POWER CONNECTION FOR TRAFFIC SIGNAL FROM THE DEMARCATION POINT TO THE CABINET.

9. CONTRACTOR SHALL INSTALL A TRACER WIRE WITH THE FIBER OPTIC CABLE FOR ALL CONDUIT ROUTING. TRACER WIRE SHALL BE 10 AWG STRANDED COPPER CONDUCTOR CABLE WITH BOTH THHN AND THWN RATINGS AND YELLOW IN COLOR.

10. TO BE ITERIS VANTAGE SYSTEM OR APPROVED EQUIVALENT. INCLUDES DETECTION CAMERAS, PROCESSOR UNIT, CARD RACK, VIDEO REMOTE MANAGEMENT CARD WITH ETHERNET INTERFACE, POWER SUPPLY UNIT, SURGE PROTECTION EQUIPMENT (AN EDCO HSP-121BT1RU SERIES SURGE PROTECTION), 10" LCD COLOR MONITOR, MOUSE AND ALL CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM.

11. TO BE 3M OPTICOM SYSTEM OR APPROVED EQUIVALENT. INCLUDES OPTICAL DETECTORS, CONFIRMATION LAMPS (PAR 90), POLE-MOUNTED BEACONS, FOUR-CHANNEL PHASE SELECTOR, CARD RACK (OPTICOM 760) AND ALL OTHER CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY-FUNCTIONAL PREEMPTION SYSTEM, INCLUDING FIELD FINE-TUNING.

12. TO BE ITERIS VANTAGE VECTOR SYSTEM OR APPROVED EQUIVALENT. INCLUDES DETECTION CAMERAS, PROCESSOR UNIT, CARD RACK, VIDEO REMOTE MANAGEMENT CARD WITH ETHERNET INTERFACE, POWER SUPPLY UNIT, SURGE PROTECTION EQUIPMENT (AN EDCO HSP-121BT1RU SERIES SURGE PROTECTION), 10" LCD COLOR MONITOR, MOUSE AND ALL CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM.

13. THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN EAGLE EPAC M52 KEYBOARD UNIT OR APPROVED EQUIVALENT WITH BUILT-IN PORT 3 FIBER MODEM (SINGLE MODE), AND BUILT-IN STRETCH AND DELAY FEATURES FOR EACH PHASE. THE TRAFFIC CONTROLLER INSTALLATION ALONG WITH ALL AUXILIARY EQUIPMENT TO BE INSTALLED IN THE CABINET SHALL BE MANUFACTURED, SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST CITY OF MEMPHIS TRAFFIC SIGNAL CONTROLLER AND CABINET SPECIFICATIONS. THE INSTALLATION SHALL HAVE A 12-CHANNEL MALFUNCTION MONITOR UNIT INSTALLED AS MODEL EDI SSM12LE-P. EACH NEW CONTROLLER CABINET SHALL INCLUDE 4 VEHICLE DETECTOR CARDS (4-CHANNEL) SEPARATE FROM THE QUANTITIES OF ITEM NUMBER 730-13.02.

14. INCLUDES CONCRETE FOUNDATION OR SCREW DOWN ANCHOR FOUNDATION AS APPROVED BY THE ENGINEER.

15. INCLUDES CONCRETE FOUNDATION AS APPROVED BY THE ENGINEER.

16. POLE TO BE MOUNTED TO BRIDGE. INCLUDES ANCHOR BOLTS, BASE PLATE AND ANY OTHER ITEMS REQUIRED TO SECURE THE POLE TO THE BRIDGE.

17. TO INCLUDE SIGNS AND PUSHBUTTONS.

18. TO BE USED FOR RAMP A, RAMP C AND THE INTERSECTION OF BEVERLE RIVERA DRIVE/DAVIES PLANTATION AT CANADA ROAD.

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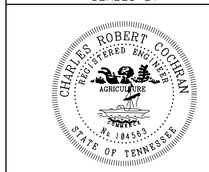

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ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2C-1

SHELBY CO. I-40

ESTIMATED LIGHTING QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	714-03	JACKED OR BORED CONDUIT	L.F.	1875
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	24245
	714-05.05	PULL BOXES (MEMPHIS STANDARD)	EACH	41
	714-06.08	CABLE (1/C # 6 AWG)	L.F.	1150
	714-06.09	CABLE (1/C # 4 AWG)	L.F.	58700
	714-06.10	CABLE (1/C # 2 AWG)	L.F.	35100
(2)	714-06.11	CABLE (# 4 SOLID COPPER SOFT DRAWN) (GROUND)	L.F.	8700
	714-06.12	CABLE (# 4 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	24900
(3)	714-08.01	LIGHT STANDARDS (45' M.H., 15' ARM)	EACH	94
(4)	714-08.04	LIGHT STANDARDS (45' M.H., 2 - 15' ARMS)	EACH	20
(5)	714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	EACH	106
(6)	714-08.26	FOUNDATION FOR LIGHT STANDARDS (MEDIAN BARRIER)	EACH	8
(7)	714-08.28	FOUNDATION FOR LIGHT STANDARDS (BARRIER WALL)	EACH	12
(8)	714-09.01	LUMINAIRES (150 WATT)	EACH	6
(9)	714-09.03	LUMINAIRES (250 WATT)	EACH	134
(9, 10)	714-09.09	LUMINAIRES (250 WATT, SIGNAL POLE MOUNTED)	EACH	4
(11)	714-12.01	CONTROL CENTER (NO. 1)	LS	1
(12)	714-25	ELECTRICAL CONNECTION	EACH	1

PAY ITEM FOOTNOTES

(1) INCLUDES FOUR LOCATIONS WITH 2-CONDUITS AT EACH JACK AND BORE CROSSING (2-190 LF, 2-145 LF, 2-65 LF, AND 2-55 LF).

(2) INCLUDED FOR GROUNDING WITHIN STRUCTURES.

(3) INCLUDES THE COST OF THE 15' ARM. INCLUDES 12-LIGHT STANDARDS MOUNTED ON BARRIER WALLS, SEE SHEETS 57K AND 57L.

(4) INCLUDES THE COST OF THE 2-15' ARMS. 12-SHALL BE INSTALLED IN THE DEPRESSED, GRASSED MEDIAN AND 8-SHALL BE INSTALLED ON THE NEW MEDIAN BARRIER.

(5) SHALL BE CLASS 'A' CONCRETE FOUNDATION, SEE TDOT STD. DWG. T-L-1. INCLUDES ADJUSTMENT OF 12 FOUNDATIONS FOR FUTURE WIDENING. SEE SHEET 57H.

(6) INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING ALL MATERIALS AND LABOR NECESARRY TO CONSTRUCT THE PORTION OF THE MEDIAN BARRIER AND THE FOOTINGS SUPPORTING THE LIGHT STANDARDS. FOR CONCRETE FOUNDATION ESTIMATES, SEE TDOT STANDARD DRAWING T-L-2.

(7) INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING ALL MATERIALS AND LABOR NECESSARY TO CONSTRUCT THE PORTION OF THE CONCRETE BARRIER AND THE FOOTINGS SUPPORTING THE LIGHT STANDARD. FOR CONCRETE FOUNDATION ESTIMATES, SEE SHEET 57L.

(8) UNDERPASS LUMINAIRE SHALL BE AMERICAN ELECTRIC UNDERPASS SERIES 681, 150W CLEAR HPS WITH TYPE IV, VERY SHORT, NON-CUTOFF DISTRIBUTION, MULTI-TAP WIRED FOR 240V, CATALOGUE NO. 681-15S-CT-MT2-GY-NC, OR EQUIVALENT. BASED ON AMERICAN ELECTRIC PHOTOMETRIC DATA FILE 581_15S_CA_120.IES; TOTAL LUMENS=16,000.

(9) ROADWAY LUMINAIRE (COBRAHEAD) SHALL BE AMERICAN ELECTRIC ROADWAY SERIES 125, 250W CLEAR HPS WITH TYPE III, FULL-CUTOFF DISTRIBUTION, MULTI-TAP WIRED FOR 240V OPERATION, CATALOGUE NO. 125-25S-CT-MT2-R3-FG-GY-NR, OR EQUIVALENT. BASED ON AMERICAN ELECTRIC PHOTOMETRIC DATA FILE 125_25S_R3_FG.IES; TOTAL LUMENS=29,000.

(10) INCLUDED FOR INSTALLATION OF LUMINAIRE WITH 15' ARM ON SIGNAL POLE, SEE DETAILS ON SHEET 57J. INCLUDES THE COST OF THE 15' ARM. ALSO, INCLUDES THE COST OF THE BOLT SIMPLEX FOR THE ATTACHMENT OF THE 15' ARM TO THE SIGNAL POLE.

(11) INCLUDES THE COST OF THE 10' X 10' FENCE ENCLOSURE.

(12) THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE CONTROL CENTER(S). THESE CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. ALSO, INCLUDES THE COST OF THE STEEL CONDUIT RISER ASSEMBLY, 200 AMP DISCONNECT, PROPOSED POWER CABLE OVERHEAD, AND THE COST TO FURNISH AND INSTALL TRANSFORMERS, AS REQUIRED.

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ESTIMATED ROADWAY QUANTITIES

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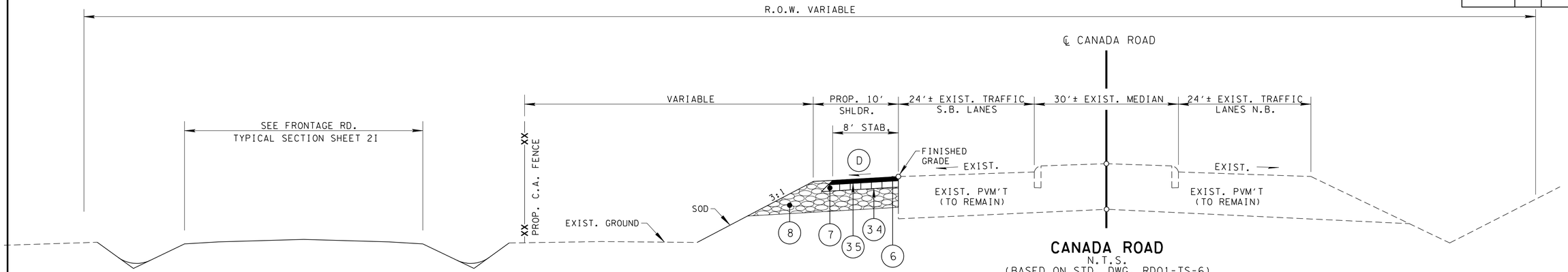
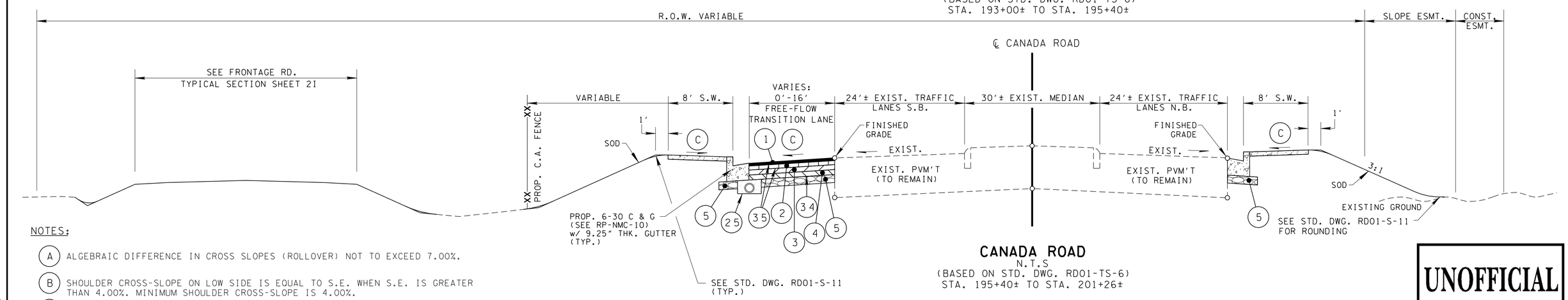
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	2
R.O.W.	2012	IM-40-1(316)	2
CONST.	2014	NH-I-40-1(283)20	2D



CANADA ROAD
N.T.S.
(BASED ON STD. DWG. RD01-TS-6)
STA. 193+00± TO STA. 195+40±



CANADA ROAD
N.T.S
(BASED ON STD. DWG. RD01-TS-6)
STA. 195+40± TO STA. 201+26±

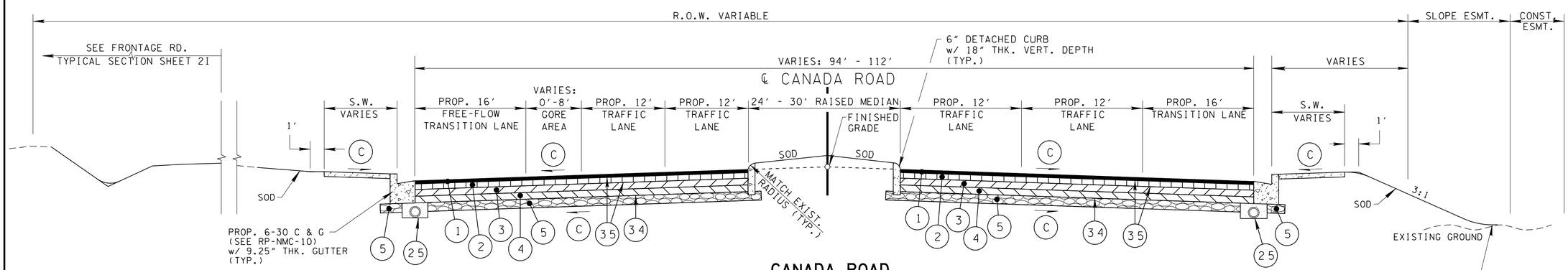
NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.



CANADA ROAD
N.T.S
(BASED ON STD. DWG. RD01-TS-6)
STA. 201+26± TO STA. 205+35±

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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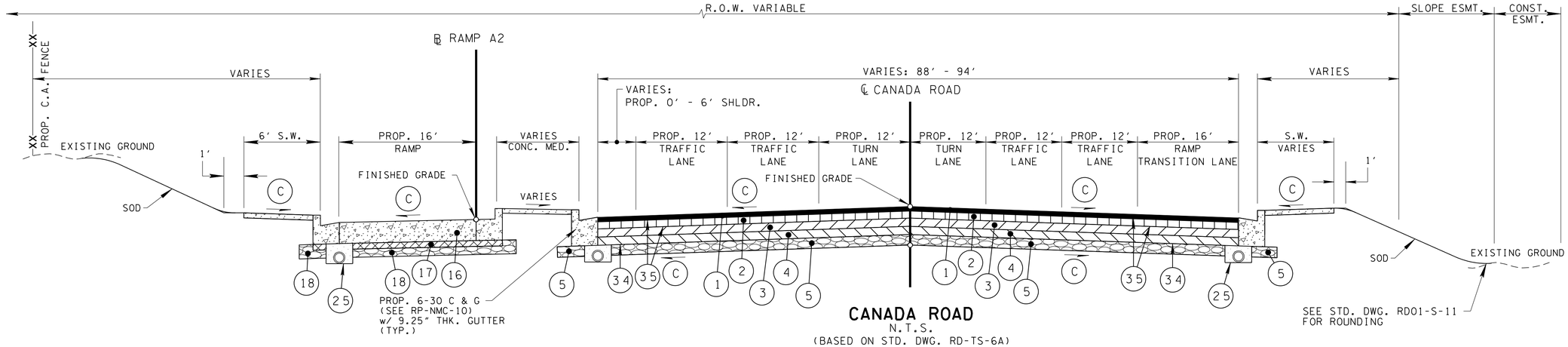
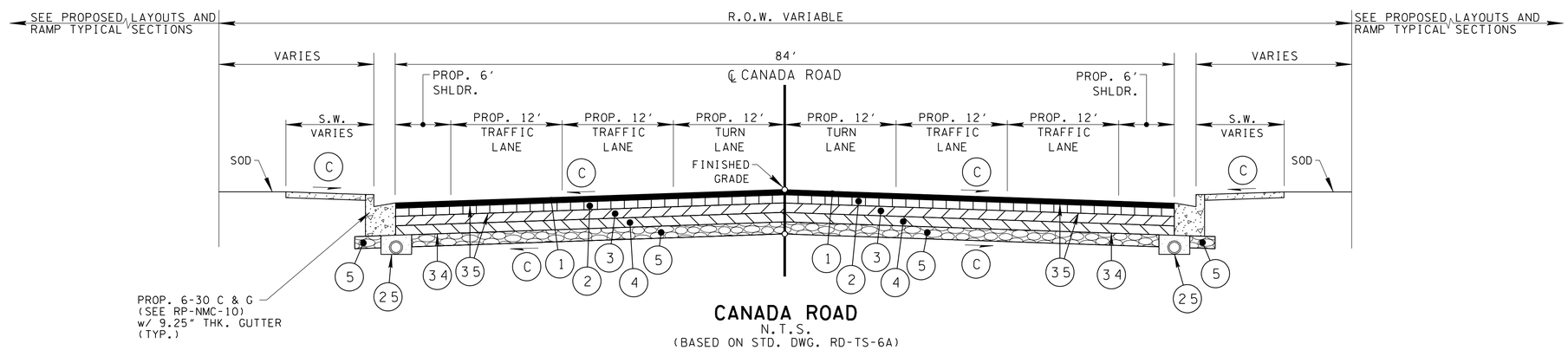
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	2A
R.O.W.	2012	IM-40-1(316)	2A
CONST.	2014	NH-I-40-1(283)20	2E

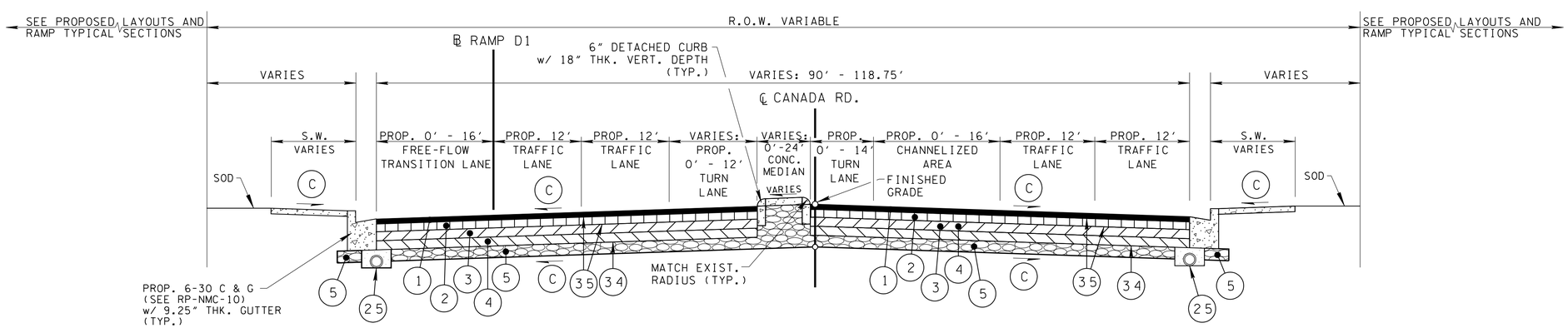
REV. 11/30/2012 ADDED CANADA ROAD TYPICAL SECTION & CHANGED STA. RANGES



CANADA ROAD
N.T.S.
(BASED ON STD. DWG. RD-TS-6A)
STA. 205+35± TO STA. 209+50±



CANADA ROAD
N.T.S.
(BASED ON STD. DWG. RD-TS-6A)
STA. 209+50± TO STA. 212+23±
STA. 213+76± TO STA. 217+31±



CANADA ROAD
N.T.S.
(BASED ON STD. DWG. RD-TS-6A)
STA. 217+31± TO STA. 223+00±

NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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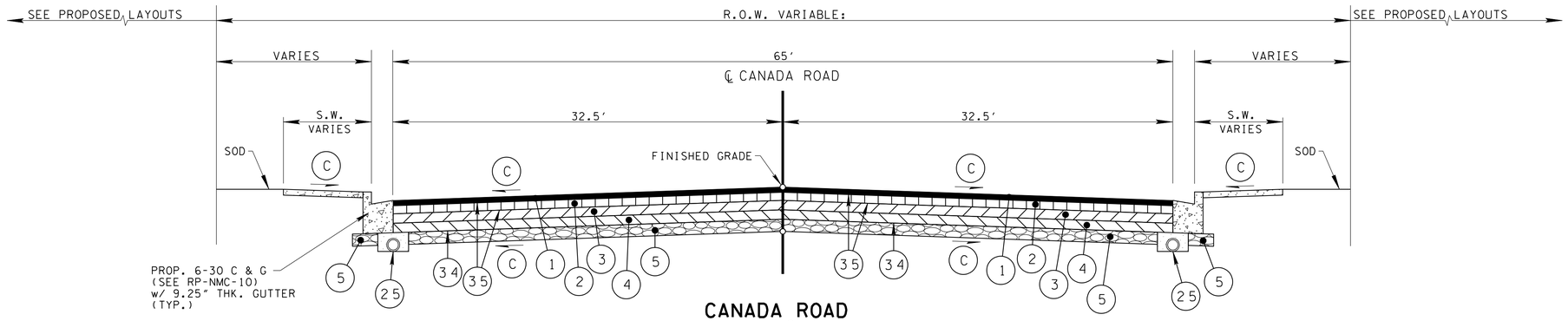
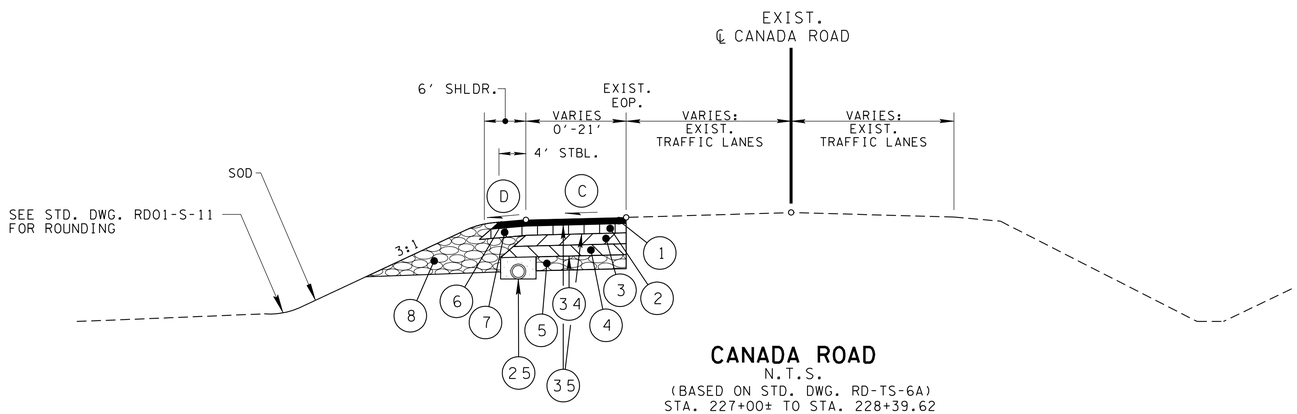
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	2B
R.O.W.	2012	IM-40-1(316)	2B
CONST.	2014	NH-I-40-1(283)20	2F



CANADA ROAD
N.T.S.
(BASED ON STD. DWG. RD-TS-6A)
STA. 223+00± TO STA. 227+00±



CANADA ROAD
N.T.S.
(BASED ON STD. DWG. RD-TS-6A)
STA. 227+00± TO STA. 228+39.62

UNOFFICIAL SET

NOT FOR BIDDING

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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2G

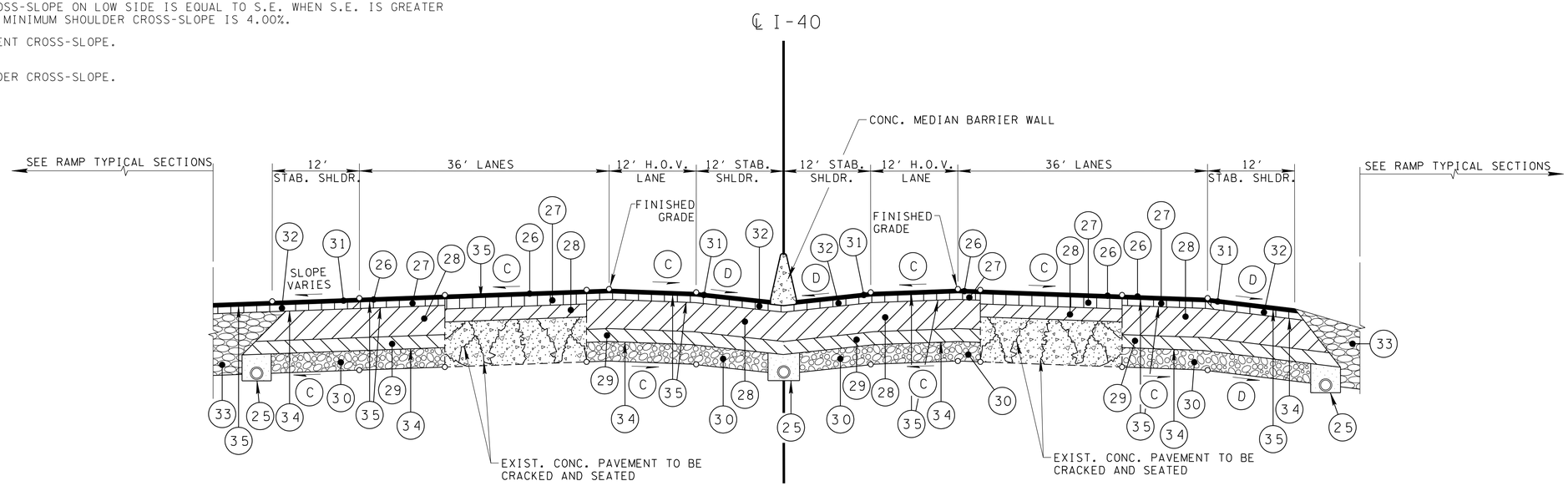
NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

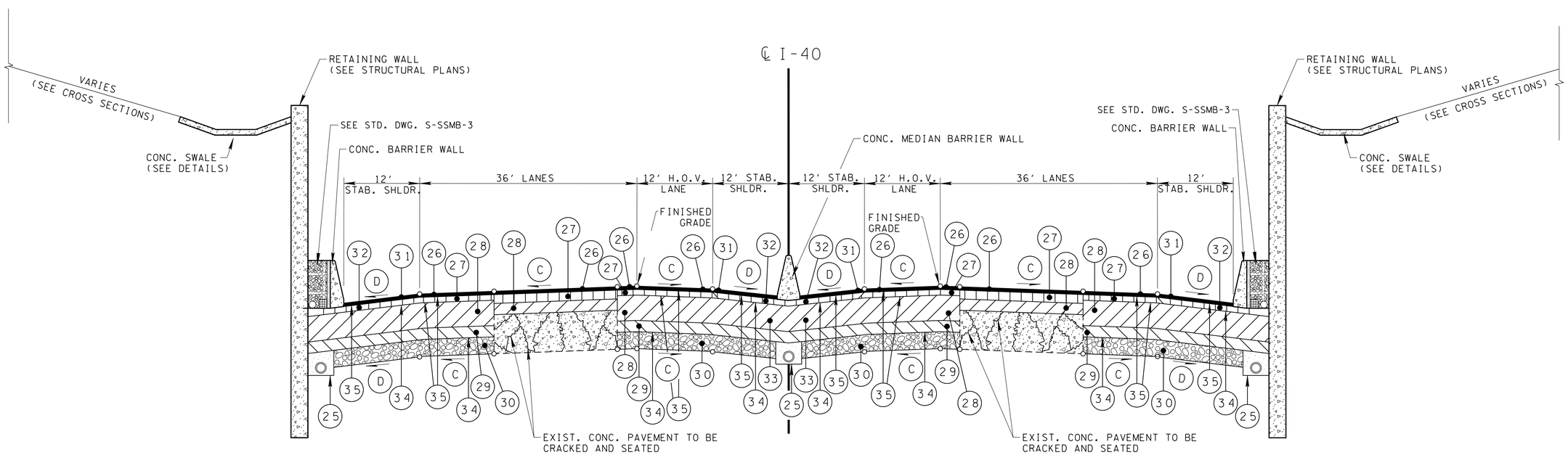
(D) 4.00% SHOULDER CROSS-SLOPE.



I-40 MAINLINE

N.T.S.

STA. 487+00.00 LT. TO STA. 489+80.04 LT. I-40
STA. 487+00.00 RT. TO STA. 488+00.00 RT. I-40
STA. 506+90.62 LT. TO STA. 508+80.00 LT. I-40
STA. 504+96.63 RT. TO STA. 508+00.00 RT. I-40
(BASED ON STD. DWG. RD01-TS-3A)



I-40 MAINLINE

N.T.S.

STA. 489+80.04 LT. TO STA. 506+90.62 LT I-40
STA. 488+00.00 RT. TO STA. 504+96.63 RT I-40
(BASED ON STD. DWG. RD01-TS-3A)

UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.

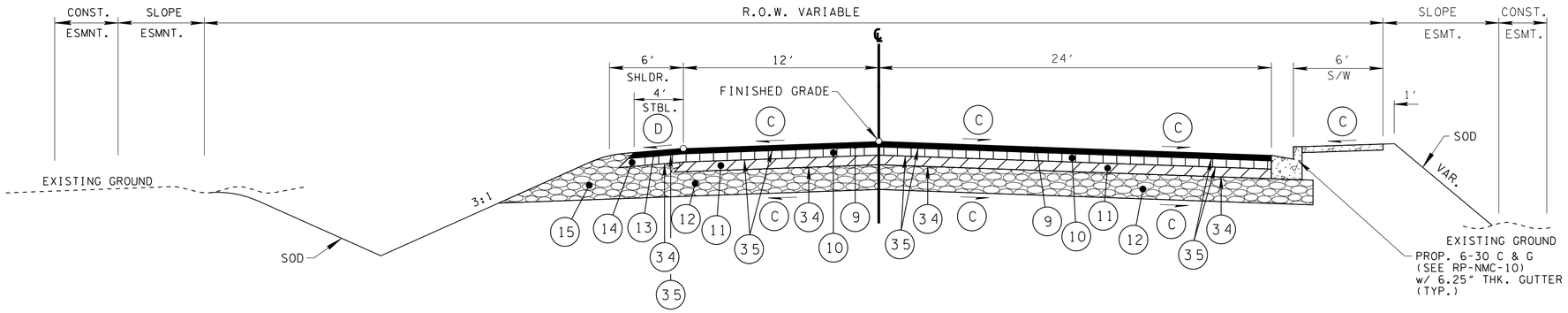
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	2C
R.O.W.	2012	IM-40-1(316)	2C
CONST.	2014	NH-I-40-1(283)20	2H

REV. 11/30/2012 REVISED PRESENT & PROP. R.O.W. DIMENSION AND TYPICAL SECTION FOR BEVERLE RIVERA DRIVE EXTENDED.

REV. 11/30/2012 REVISED PRESENT & PROP. R.O.W. DIMENSION AND TYPICAL SECTION FOR BEVERLE RIVERA DRIVE EXTENDED.

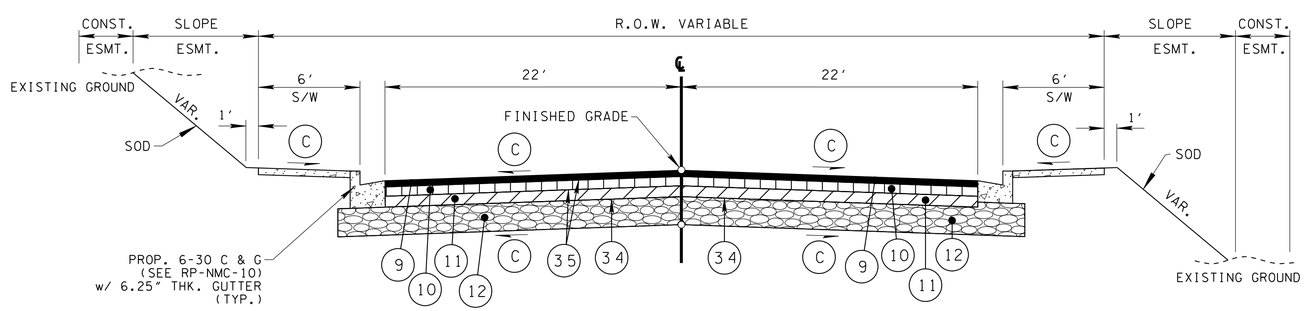
REV. 12/31/2012 REVISED STA. RANGE ON TYPICAL SECTIONS FOR BEVERLE RIVERA & BEVERLE RIVERA EXTENDED.

REV. 05/17/2013 REMOVED TYPICAL SECTION FOR BEVERLE RIVERA EXT.



DAVIES PLANTATION ROAD TYPICAL SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-6A)
STA. 6+80 TO STA. 9+62.88



BEVERLE RIVERA DRIVE TYPICAL SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-6A)
STA. 10+40.30 TO STA. 12+00

UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

2/24/2014 11:21:42 AM
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NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

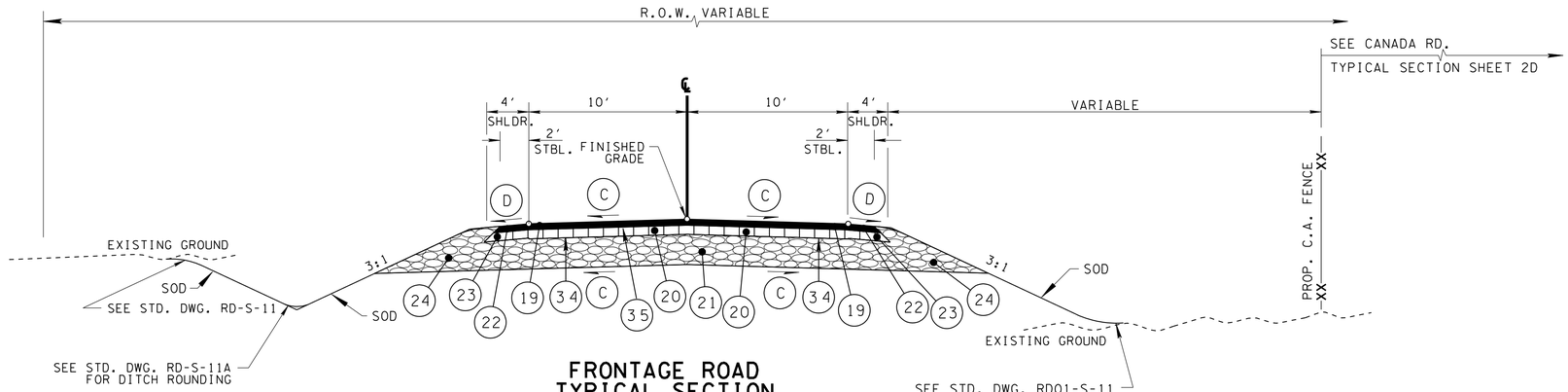
(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	2D
CONST.	2014	NH-I-40-1(283)20	2I

REV. 11/30/2012 REVISED PROP. R.O.W. DIMENSION ON TYPICAL SECTION FOR BEVERLE BAY DRIVE.

REV. 05/17/2013 REMOVED TYPICAL SECTION FOR BEVERLE BAY DRIVE AND ADDED TYPICAL SECTION FOR NEW CONNECTOR ROAD

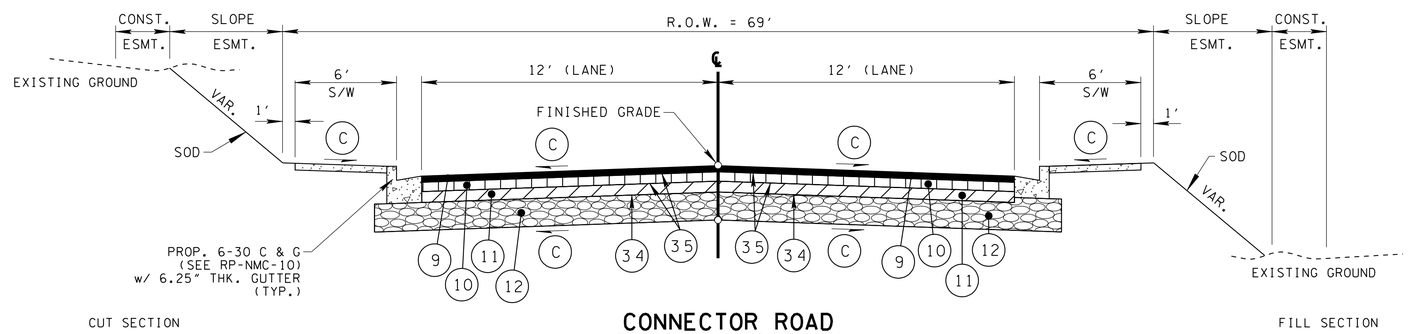


FRONTAGE ROAD TYPICAL SECTION

N.T.S.

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

STA. 9+35.12± TO STA. 24+42.64

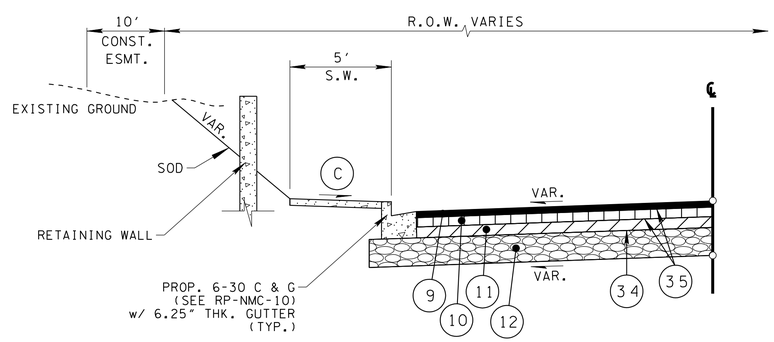


CONNECTOR ROAD TYPICAL SECTION

N.T.S.

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

STA. 10+00 TO STA. 14+98.10



HUFF-N-PUFF (CUL-DE-SAC) TYPICAL SECTION

N.T.S.

UNOFFICIAL SET

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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	2D
R.O.W.	2012	IM-40-1(316)	2E
CONST.	2014	NH-I-40-1(283)20	2J

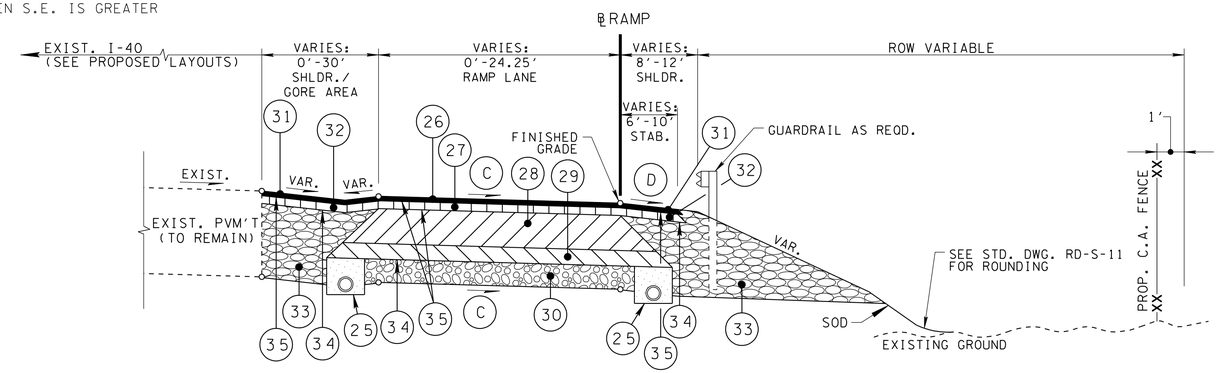
NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

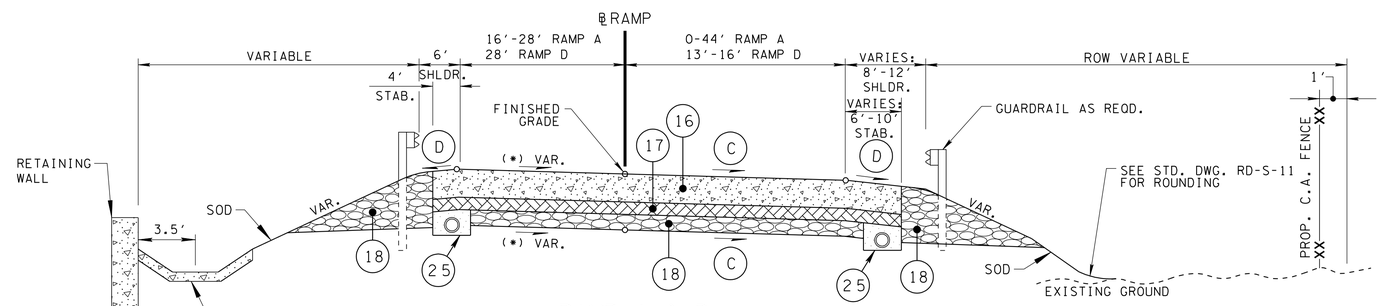
(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.



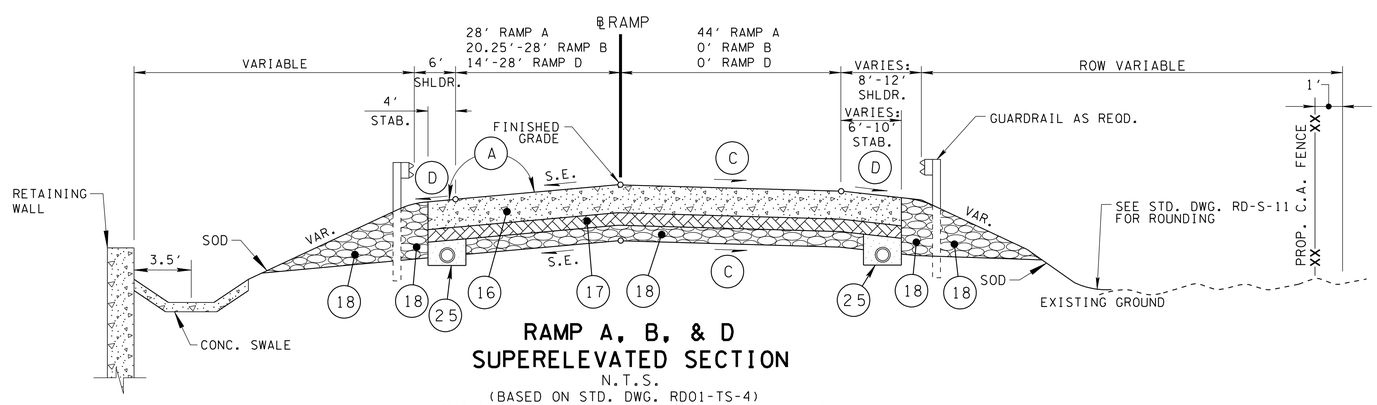
RAMP A, B, C, & D
TANGENT SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-4)
RAMP A FROM STA. 13+65.86 TO STA. 21+44.93
RAMP B FROM STA. 21+57.78 TO STA. 30+82.43
RAMP C FROM STA. 14+90.82 TO STA. 20+51.35
RAMP D FROM STA. 22+48.55 TO STA. 39+36.68 RT
RAMP D FROM STA. 23+57.70 TO STA. 39+36.68 LT



RAMP A & D
TANGENT SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-4)
RAMP A FROM STA. 21+44.93 TO STA. 29+57.86
RAMP D FROM STA. 15+15.53 TO STA. 16+74.28
(*) RAMP A CROSS-SLOPE = 2.00%
(*) RAMP D CROSS-SLOPE = -2.00%



RAMP A, B, & D
SUPERELEVATED SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-4)
RAMP A FROM STA. 29+57.86 TO STA. 30+96.34 LT.
RAMP A FROM STA. 29+57.86 TO STA. 30+15.37 RT.
RAMP B FROM STA. 14+11.20 TO STA. 14+89.67 & STA. 16+72.20 TO STA. 17+94.44
RAMP D FROM STA. 14+81.58 TO STA. 15+15.53

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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	2E
R.O.W.	2012	IM-40-1(316)	2F
CONST.	2014	NH-I-40-1(283)20	2K

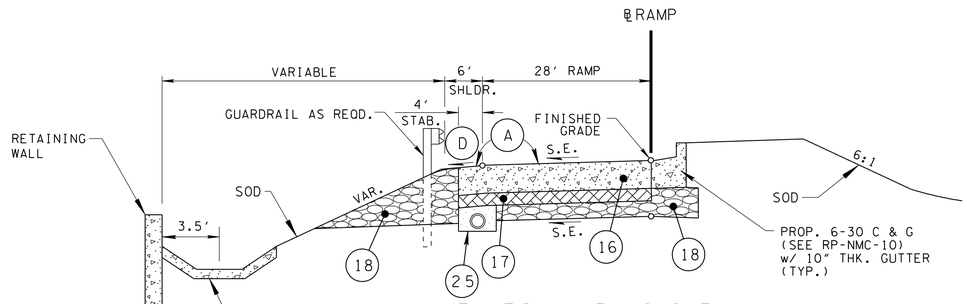
NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.



RAMPS A, B, C & D
SUPERELEVATED RAMP SECTIONS

N.T.S.

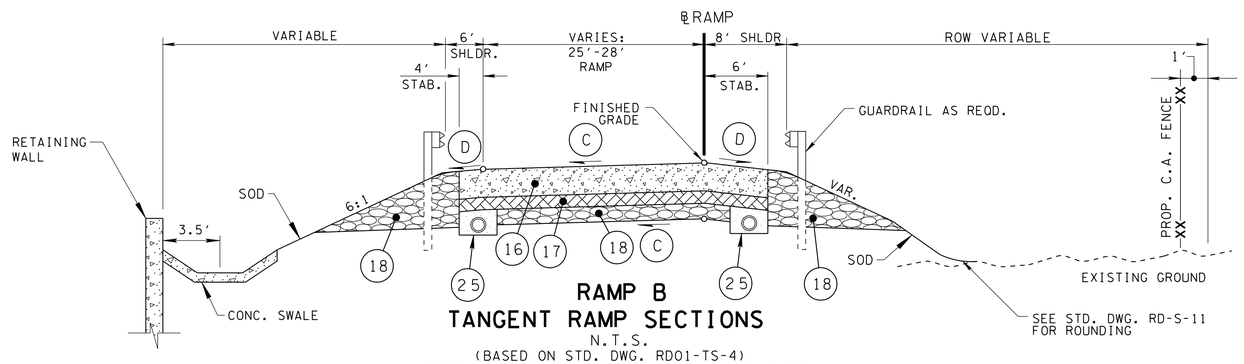
(BASED ON STD. DWG. RD01-TS-4)

RAMP A FROM STA. 30+96.34 TO STA. 32+41.12

RAMP B FROM STA. 12+24.16 TO STA. 14+11.20

RAMP C FROM STA. 25+44.10 TO STA. 27+45.54

RAMP D FROM STA. 11+86.00 TO STA. 14+81.58

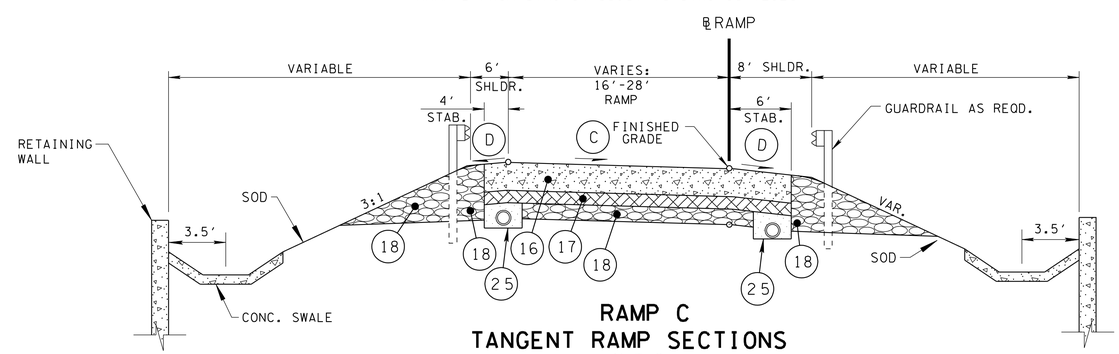


RAMP B
TANGENT RAMP SECTIONS

N.T.S.

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

RAMP B FROM STA. 14+89.67 TO STA. 16+72.20



RAMP C
TANGENT RAMP SECTIONS

N.T.S.

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

RAMP C FROM STA. 20+51.35 TO STA. 25+44.10

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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	2G
CONST.	2014	NH-I-40-1(283)20	2L

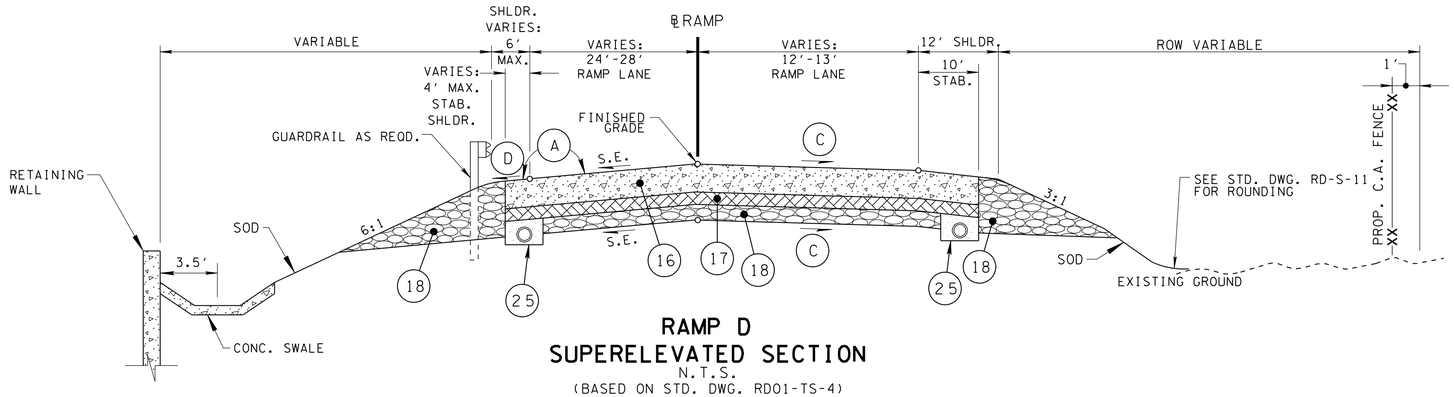
NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

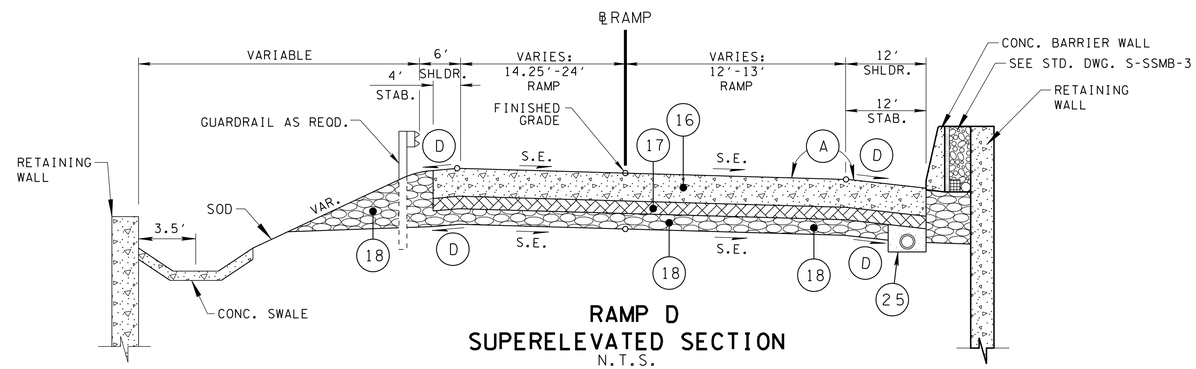
(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.



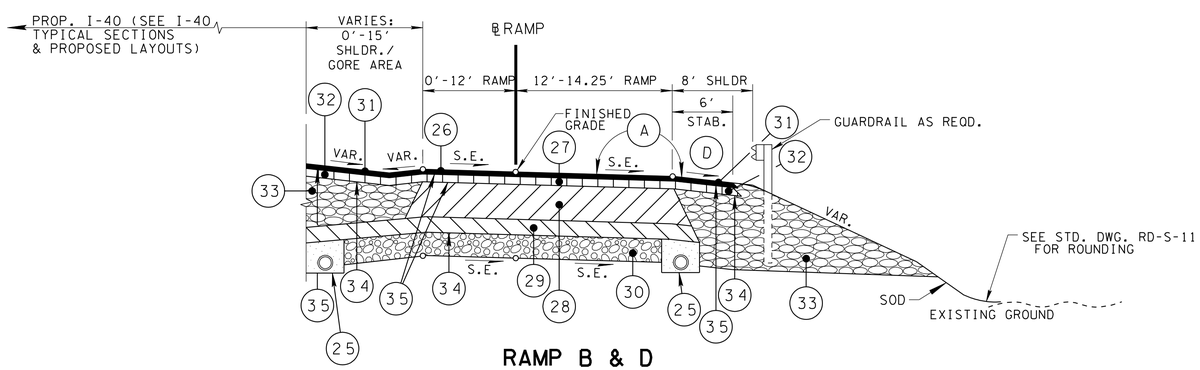
RAMP D
SUPERELEVATED SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-4)
RAMP D FROM STA. 16+74.28 TO STA. 17+85.39



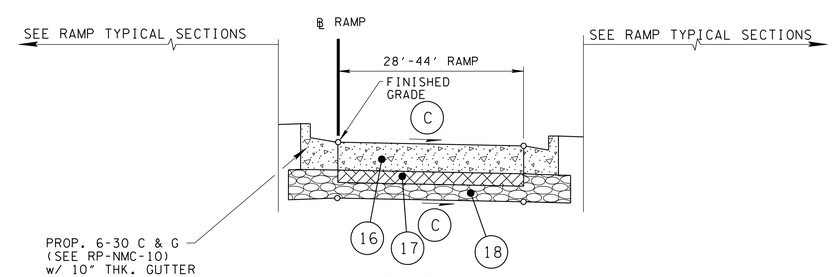
RAMP D
SUPERELEVATED SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-4)
RAMP D FROM STA. 17+85.39 TO STA. 20+78.00



RAMP B & D
SUPERELEVATED SECTION

N.T.S.
(BASED ON STD. DWG. RD01-TS-4)
RAMP B FROM STA. 17+94.44 TO STA. 21+57.78
RAMP D FROM STA. 20+78.00 TO STA. 22+48.55 RT
RAMP D FROM STA. 20+78.00 TO STA. 23+57.70 LT



RAMP A1
TANGENT RAMP SECTION

N.T.S.
(BASED ON STD. DWG. RD-TS-4)
RAMP A1 FROM STA. 30+15.37 TO STA. 32+84.20

UNOFFICIAL SET

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TYPICAL SECTIONS

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NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

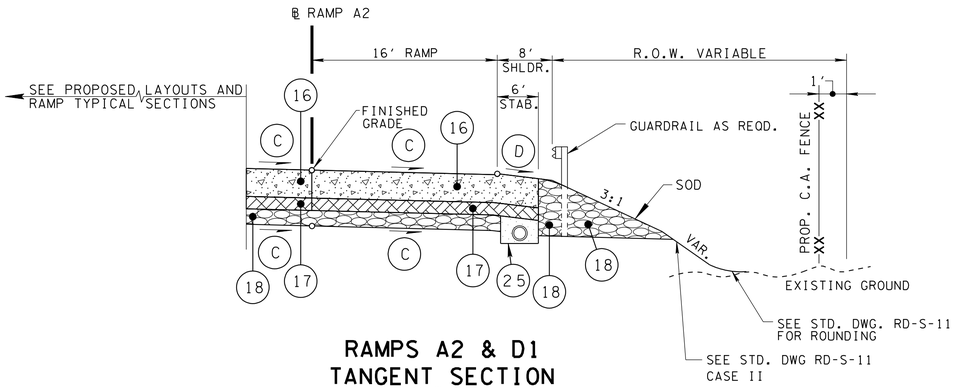
(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	2H
CONST.	2014	NH-I-40-1(283)20	2M

REV. 11/30/2012 REVISED STA. RANGE
RAMP C1 TYPICAL SECTION

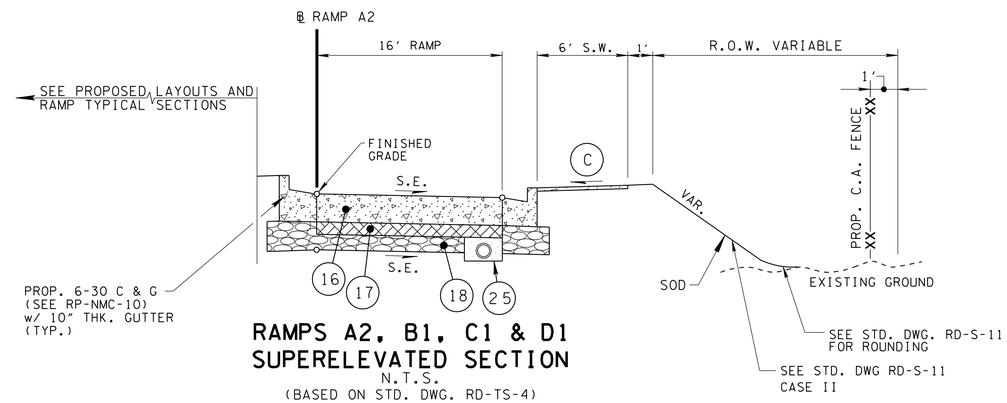


RAMPS A2 & D1 TANGENT SECTION

N.T.S.

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

RAMP A2 FROM STA. 29+57.86 TO STA. 30+15.27
RAMP D1 FROM STA. 12+68.38 TO STA. 15+08.42

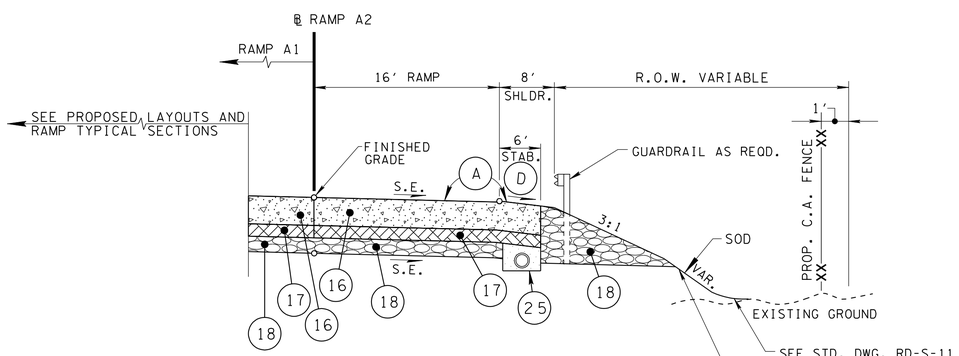


RAMPS A2, B1, C1 & D1 SUPERELEVATED SECTION

N.T.S.

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

RAMP A2 FROM STA. 33+21.23 TO STA. 33+79.76
RAMP B1 FROM STA. 10+91.11 TO STA. 11+31.81
RAMP C1 FROM STA. 28+06.71 TO STA. 28+39.90
RAMP D1 FROM STA. 10+87.32 TO STA. 11+22.60

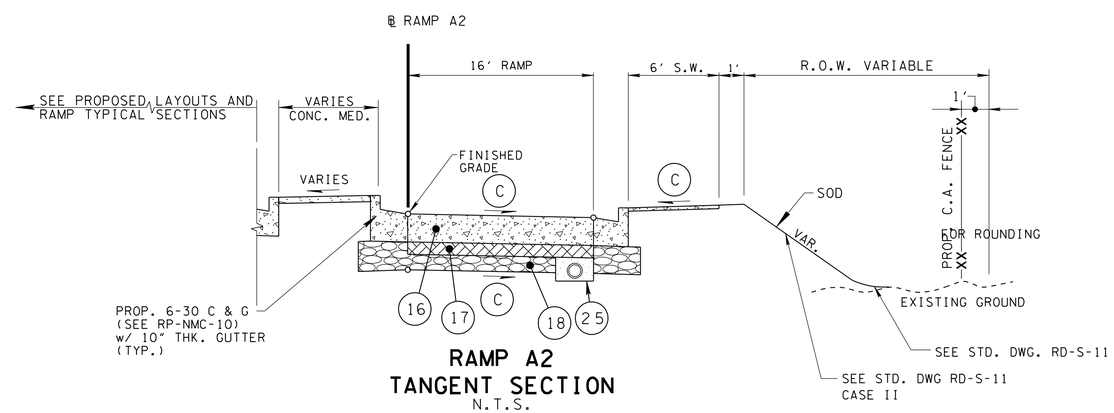


RAMPS A2, B1, C1 & D1 SUPERELEVATED SECTIONS

N.T.S.

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

RAMP A2 FROM STA. 30+15.37 TO STA. 33+21.23
RAMP B1 FROM STA. 11+31.81 TO STA. 14+23.61
RAMP C1 FROM STA. 25+44.10 TO STA. 28+06.71
RAMP D1 FROM STA. 11+22.60 TO STA. 12+68.38



RAMP A2 TANGENT SECTION

N.T.S.

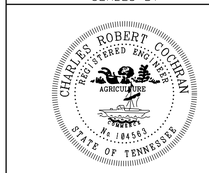
(BASED ON STD. DWG. RD-TS-4)

RAMP A2 FROM STA. 33+79.76 TO STA. 36+62.07

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	2I
CONST.	2014	NH-I-40-1(283)20	2N

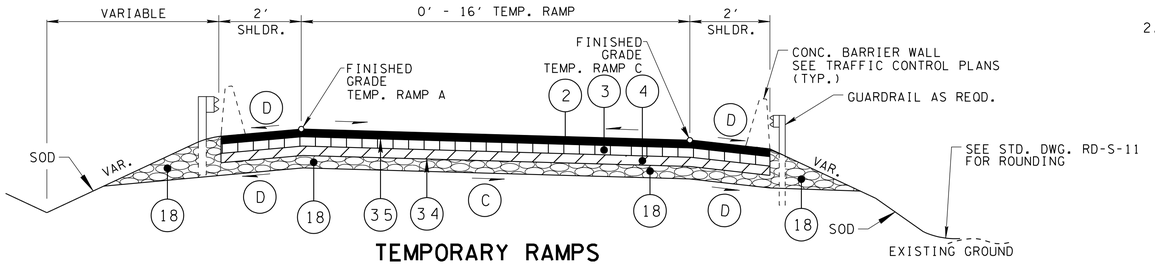
NOTES:

(A) ALGEBRAIC DIFFERENCE IN CROSS SLOPES (ROLLOVER) NOT TO EXCEED 7.00%.

(B) SHOULDER CROSS-SLOPE ON LOW SIDE IS EQUAL TO S.E. WHEN S.E. IS GREATER THAN 4.00%. MINIMUM SHOULDER CROSS-SLOPE IS 4.00%.

(C) 2.00% PAVEMENT CROSS-SLOPE.

(D) 4.00% SHOULDER CROSS-SLOPE.



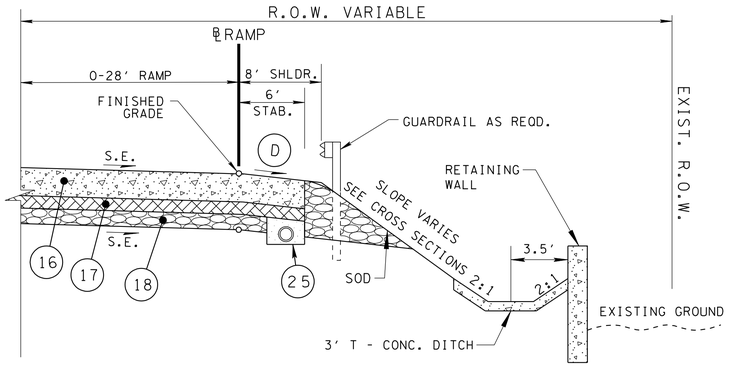
TEMPORARY RAMPS TANGENT SECTION

N.T.S.

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

TEMP. RAMP A FROM STA. 10+00.00 TO STA. 21+84.26

TEMP. RAMP C FROM STA. 10+00.00 TO STA. 23+16.89



SECTION - SPECIAL DITCH @ TOE OF FILL ALONG RETAINING WALL RAMP B & C

N.T.S.

RAMP B

STA. 13+75.00 TO STA. 15+50.00 RT.

RAMP C

STA. 21+00.00 TO 22+00.00 RT.

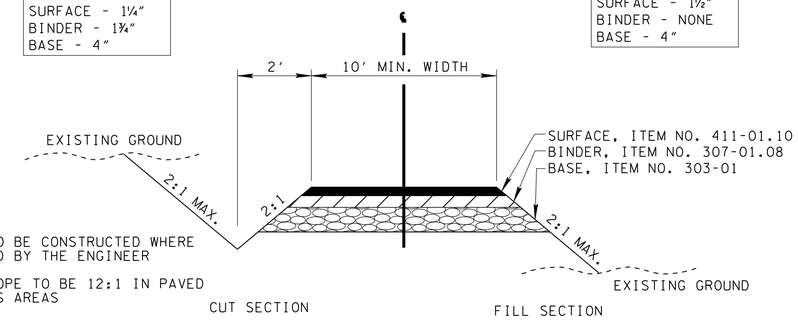
STA. 22+00.00 TO 24+00.00 RT.

BUSINESS

SURFACE - 1¼″
BINDER - 1¾″
BASE - 4″

FIELD OR RESIDENTIAL

SURFACE - 1½″
BINDER - NONE
BASE - 4″



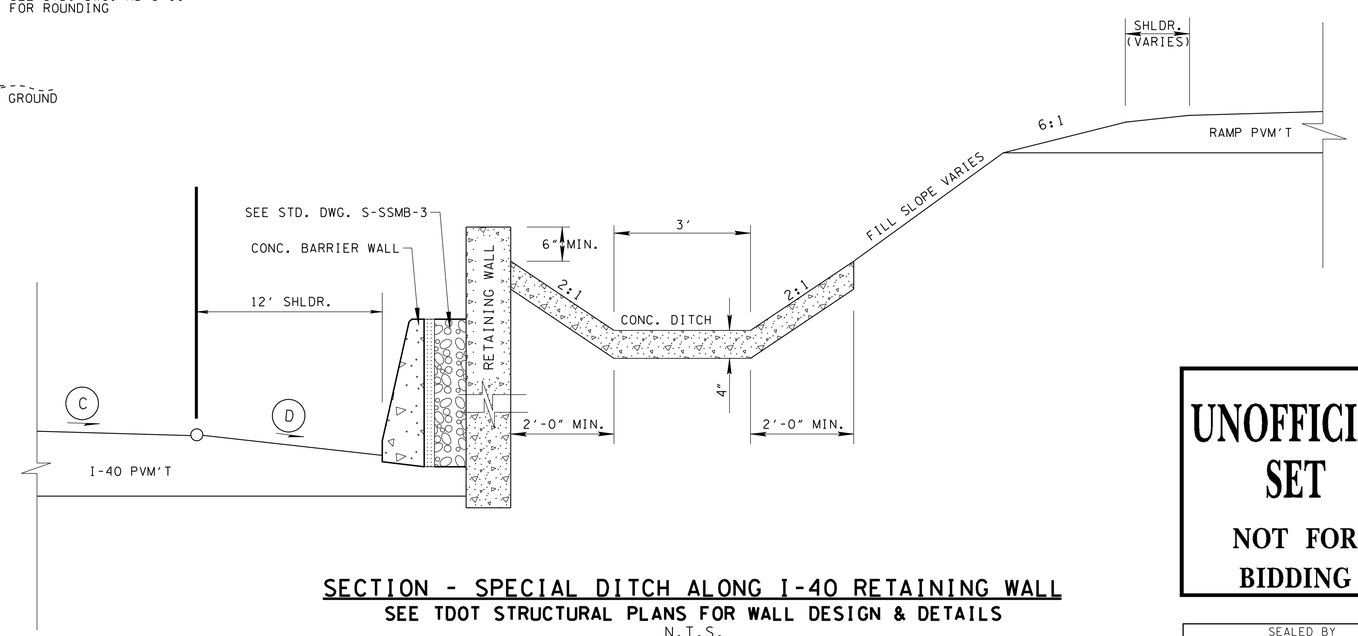
NOTES:

1. DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER
2. SIDE SLOPE TO BE 12:1 IN PAVED BUSINESS AREAS

TYPICAL SECTION

N.T.S.

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY



SECTION - SPECIAL DITCH ALONG I-40 RETAINING WALL

SEE TDOT STRUCTURAL PLANS FOR WALL DESIGN & DETAILS

N.T.S.

MAINLINE ℄ I-40

STA. 496+00.00 TO STA. 488+22.00 RT.

STA. 490+88.00 TO STA. 493+00.00 LT.
STA. 494+05.00 TO STA. 493+00.00 LT.
STA. 494+05.00 TO STA. 495+10.00 LT.
STA. 497+20.00 TO STA. 495+10.00 LT.

STA. 498+96.00 TO STA. 502+85.00 RT.
STA. 503+91.00 TO STA. 502+85.00 RT.

STA. 499+91.00 TO STA. 505+68.00 LT.

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	20

PROPOSED PAVEMENT SCHEDULE (ALL ROADWAYS AND RAMPS)

CANADA ROAD - PAVEMENT SECTION = 14.25"

(1) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 132.5 LBS./S.Y.)
ITEM NO. 411-02.10: ACS MIX (PG70-22) GRADING "D"

(2) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226.0 LBS./S.Y.)
ITEM NO. 307-02.08: ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"

(3) BITUMINOUS BASE COURSE @ 3.00" THK. (APPROX. 345.0 LBS./S.Y.)
ITEM NO. 307-02.01: ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"

(4) BITUMINOUS BASE COURSE @ 3.00" THK. (APPROX. 270 LBS./S.Y.)
ITEM NO. 307-02.02: ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING "A-S"
ITEM NO. 307-02.03: AGGREGATE (BPMB-HM) GRADING "A-S"

(5) AGGREGATE CEMENT BASE COURSE (CTB) @ 5.00" THK.
ITEM NO. 309-01.01: MINERAL AGGREGATE (A-CBC)
ITEM NO. 309-01.02: PORTLAND CEMENT (A-CBC)
ITEM NO. 309-02: BITUMINOUS MATERIAL (A-CBC)
ITEM NO. 203-06: WATER

CANADA ROAD SHOULDER - PAVEMENT SECTION = 14.25"

(6) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 128.8 LBS./S.Y.)
ITEM NO. 411-01.07: ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING "E" SHOULDER

(7) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226 LBS./S.Y.)
ITEM NO. 307-01.08: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(8) MINERAL AGGREGATE BASE @ 11.00" THK. (APPROX. 887 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

[1] SIDE ROADS - PAVEMENT SECTION = 16.25"

(9) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 132.5 LBS./S.Y.)
ITEM NO. 411-01.10: ACS MIX (PG64-22) GRADING "D"

(10) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226 LBS./S.Y.)
ITEM NO. 307-01.08: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(11) BITUMINOUS BASE COURSE @ 3.00" THK. (APPROX. 345 LBS./S.Y.)
ITEM NO. 307-01.01: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"

(12) MINERAL AGGREGATE BASE @ 10.00" THK. (APPROX. 806 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

(DAVIES PLANTATION ONLY) SHOULDER - PAVEMENT SECTION = 16.25"

(13) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 128.8 LBS./S.Y.)
ITEM NO. 411-01.07: ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING "E" SHOULDER

(14) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226 LBS./S.Y.)
ITEM NO. 307-01.08: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(15) MINERAL AGGREGATE BASE @ 13.00" THK. (APPROX. 1048 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

ALL RAMPS & RAMP SHOULDERS - PAVEMENT SECTION = 20.00"

(16) 10" CONCRETE PAVEMENT
ITEM NO. 501-01.03: PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"

(17) TREATED PERMEABLE BASE @ 4.00" THK.
ITEM NO. 313-03: TREATED PERMEABLE BASE

(18) MINERAL AGGREGATE BASE @ 6.00" THK. (APPROX. 484 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

FRONTAGE ROAD - PAVEMENT SECTION = 15.75"

(19) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 132.5 LBS./S.Y.)
ITEM NO. 411-01.10: ACS MIX (PG64-22) GRADING "D"

(20) BITUMINOUS BINDER COURSE @ 2.50" THK. (APPROX. 282.5 LBS./S.Y.)
ITEM NO. 307-01.08: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(21) MINERAL AGGREGATE BASE @ 12.00" THK. (APPROX. 967 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

FRONTAGE ROAD SHOULDER - PAVEMENT SECTION = TOTAL 15.75"

(22) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 128.8 LBS./S.Y.)
ITEM NO. 411-01.07: ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING "E" SHOULDER

(23) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226 LBS./S.Y.)
ITEM NO. 307-01.08: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(24) MINERAL AGGREGATE BASE @ 12.50" THK. (APPROX. 1007 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

[1] DAVIES PLANTATION ROAD, BEVERLE RIVERA DRIVE, THE CONNECTOR ROAD & HUFF-N-PUFF CUL-DE-SAC INCLUDE THE SAME PAVEMENT ITEMS.

SUBSURFACE DRAINAGE ITEMS:

(25) AGGREGATE UNDERDRAINS (WITH PIPE)
ITEM NO. 710-02: (SEE STD. DWG. RD-UD-3)

I-40 MAINLINE - PAVEMENT SECTION = 22.25"

(26) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 132.5 LBS./S.Y.)
ITEM NO. 411-03.10: ACS MIX (PG76-22) GRADING "D"

(27) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226 LBS./S.Y.)
ITEM NO. 307-03.08: ASPHALT CONCRETE MIX (PG76-22) GRADING "B-M2"

(28) BITUMINOUS BASE COURSE @ 9.00" THK. (APPROX. 1035 LBS./S.Y.)
ITEM NO. 307-03.01: ASPHALT CONCRETE MIX (PG76-22) GRADING "A"
ITEM NO. 307-03.01: ASPHALT CONCRETE MIX (PG76-22) GRADING "A"
(VARIABLE DEPTH IN CRACKING AND SEATING AREAS)

(29) BITUMINOUS BASE COURSE @ 4.00" THK. (APPROX. 360 LBS./S.Y.)
ITEM NO. 307-03.02: ASPHALT CEMENT (PG76-22) (BPMB-HM) GRADING "A-S"
ITEM NO. 307-03.03: AGGREGATE (BPMB-HM) GRADING "A-S"

(30) AGGREGATE CEMENT BASE COURSE (CTB) @ 6.00" THK.
ITEM NO. 309-01.01: MINERAL AGGREGATE (A-CBC)
ITEM NO. 309-01.02: PORTLAND CEMENT (A-CBC)
ITEM NO. 309-02: BITUMINOUS MATERIAL (A-CBC)
ITEM NO. 203-06: WATER

I-40 SHOULDER - PAVEMENT SECTION = 22.25"

(31) BITUMINOUS SURFACE COURSE @ 1.25" THK. (APPROX. 128.8 LBS./S.Y.)
ITEM NO. 411-01.07: ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING "E" SHOULDER

(32) BITUMINOUS BINDER COURSE @ 2.00" THK. (APPROX. 226 LBS./S.Y.)
ITEM NO. 307-01.08: ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"

(33) MINERAL AGGREGATE BASE @ 19.00" THK. (APPROX. 1531 LBS./S.Y.)
ITEM NO. 303-01: MINERAL AGGREGATE, TYPE A BASE, GRADING "D"

ADDITIONAL PAVING ITEMS:

(34) PRIME COAT
ITEM NO. 402-01: BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 GAL./S.Y.

(35) TACK COAT
ITEM NO. 403-01: BITUMINOUS MATERIAL FOR TACK COAT (TC)
APPLICATION RATE: MILLING/COLD PLANING - 0.10 GAL./S.Y.
GENERAL USE - 0.07 GAL./S.Y.

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DEPARTMENT OF TRANSPORTATION

PROPOSED PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2P

SHELBY CO. I-40

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

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

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

(3) ITEM NO. 805-12.03 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

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

GUARDRAIL

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

(2) 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.

(3) 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.

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

DRAINAGE

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

(2) EXCAVATION FOR 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).

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

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

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

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

UTILITIES

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

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

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

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

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

FENCING

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

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

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

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

MISCELLANEOUS

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

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

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

ROAD CLOSURE

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

RIGHT - OF – WAY

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

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

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

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

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

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

(7) TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.

(8) 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.

(9) 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.

(10) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2-0

SHELBY CO. I-40

GENERAL NOTES

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

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

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

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

FINAL PAVEMENT MARKING IF 4" ENHANCED FLATLINE THERMOPLASTIC IS USED

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

FINAL PAVEMENT MARKING IF 6" ENHANCED FLATLINE THERMOPLASTIC IS USED

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

FINAL PAVEMENT MARKING IF 8" ENHANCED FLATLINE THERMOPLASTIC IS USED

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

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

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

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

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(6) THE PAVEMENT MARKING ON THE DETOURS AND CROSS-OVER FOR RAMPS B & C AND CANADA ROAD WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 & 716-05.02, LIN. MI.

(7) BEFORE OPENING THE DETOURS AND CROSS-OVER FOR RAMPS B & C AND CANADA ROAD TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM 712-09.01 REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT PAVING

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

RESURFACING

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

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

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

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2R

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RESURFACING

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

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

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

RIPRAP

(1) MACHINED RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS

(2) RIPRAP SHALL CONSIST OF FURNISHING AND PLACING EITHER RUBBLE STONES BY HAND OR MACHINED. RUBBLE STONE SHALL MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE CLEAN (FREE FROM ORGANIC MATTER), DURABLE, ANGULAR WITH FRACTURED FACES, NEARLY RECTANGULAR IN SHAPE WITH A BREADTH OR THICKNESS AT LEAST ONE-THIRD ITS LENGTH.

IF THE CONTRACTOR ELECTS TO USE MACHINED RIPRAP, IT SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS.

SIGNING

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

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

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

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

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

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

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

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

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

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

TRAFFIC CONTROL DIRECTIONAL SIGNING

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

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

(3) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 712-01, AS DIRECTED BY THE ENGINEER.

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

(5) WHEN "LOGO" SIGNS ARE ON ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO THE DEPARTMENT FOR THE REIMBURSEMENT OF THE SIGN FACE IF IT IS DAMAGED. ALL WORK IN MOVING THESE "LOGO" SIGNS AND THE TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-01. AS DIRECTED BY THE ENGINEER. THE SUPPORTS FOR THE FINAL LOCATION OF THESE SIGNS WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

SIGNALIZATION

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

(2) EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730M-TRAFFIC SIGNALS."

(3) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF LAKELAND AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY.

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

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

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

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

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

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

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

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

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

LIGHTING

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED MARCH 1, 2006 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	25

SHELBY CO. I-40

LIGHTING

(1) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.

(2) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.

(3) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.

(4) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(5) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(6) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

(7) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.

(8) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

(9) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

(10) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

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 DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

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

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

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

STREAM/WETLAND

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

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

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

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

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

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

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

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

SPECIES

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

INSPECTION, MAINTENANCE, REPAIR

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

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

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

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

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

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

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INSPECTION, MAINTENANCE, REPAIR

(1) 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.

(2) 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

(3) 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

(4) 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.

(5) 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, 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.

(6) 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.

(7) 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.

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

(9) 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.

(10) 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.

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

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

LITTER, DEBRIS, WASTE, PETROLEUM

(13) 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.

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

SPECIAL NOTES

GRADING

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

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

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

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

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

PAVEMENT RESURFACING

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

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

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

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

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

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

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

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

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

SIGNALIZATION

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

2. CONTRACTOR SHALL PROVIDE ENGINEER WITH MATERIALS SUBMITTALS. ENGINEER WILL SUBMIT ACCEPTED SUBMITTALS TO THE CITY OF LAKELAND ENGINEER'S OFFICE FOR APPROVAL.

3. ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

4. ALL PEDESTRIAN TRAFFIC CONTROL INDICATIONS, WHERE CALLED FOR, SHALL CONSIST OF LED MODULES DISPLAYING "WALKING PERSON" AND "HAND" SYMBOLS ALONG WITH PEDESTRIAN INTERVAL COUNTDOWN DISPLAY WITHIN THE SAME FACE UNLESS OTHERWISE NOTED IN THE PLANS.

5. ALL LED'S SHALL MEET THE MINIMUM STANDARDS AS OUTLINED IN CHAPTER 2A AND INCLUDING PROVISIONS OF TECHNICAL NOTES IN THE CHAPTER APPENDIX OF THE PUBLICATION EQUIPMENT AND MATERIAL STANDARDS OF THE INSTITUTE OF TRANSPORTATION ENGINEERS, PUBLISHED BY ITE, NOVEMBER 1997.

6. INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

7. MANUFACTURER SHALL PROVIDE A MINIMUM FIVE YEAR WARRANTY FOR OPERATION OF THE UNIT.

8. SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7) DAYS PRIOR TO ACTIVATION OF THE SIGNAL AT THE INTERSECTION OF BEVERLE RIVERA DR. / DAVIES PLANTATION RD AND CANADA RD.

9. CIRCULAR INDICATIONS SHALL MEET "ITE VTCHS-LED CIRCULAR SIGNAL SUPPLEMENT" FOR EXPANDED/EXTENDED VIEW. ARROW INDICATIONS SHALL MEET; ITE VTCSH-3 LED ARROW SPECIFICATION "FOR EXPANDED/EXTENDED VIEW. PEDESTRIAN INDICATIONS SHALL MEET "ITE PTCSI PART 2".

10. SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER TO BE MADE OF A TYPE III PRISMATIC OR BETTER MATERIAL.

11. ALL SIGNAL HEADS WITH LED LENSES SHALL INCLUDE SWIVEL BALANCE ADJUSTERS TO MAINTAIN THE PROPER VISIBILITY. COSTS OF ADJUSTERS TO BE INCLUDED IN COSTS OF SIGNAL HEADS.

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GENERAL NOTES

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EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

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

ENVIRONMENTAL

ECOLOGY

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED BRIDGE WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS WHICH MUST BE FOLLOWED.

(3) ALL BRIDGE PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

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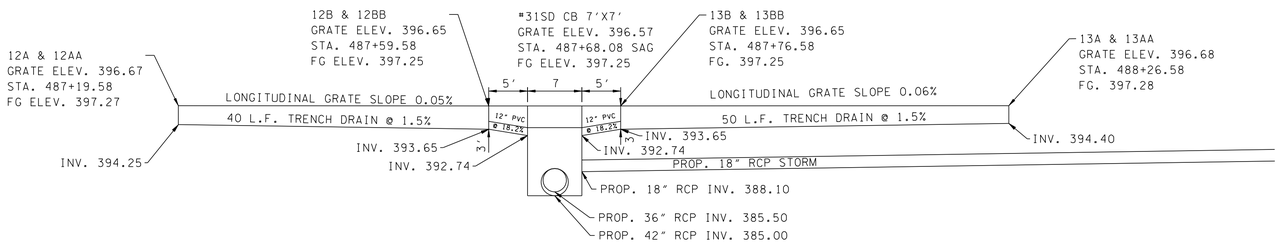
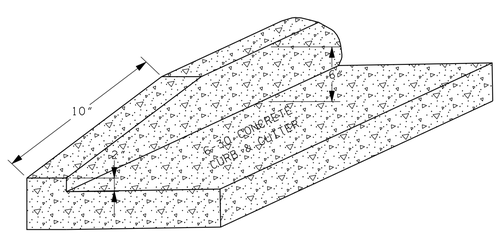
CONST.	2014	NH-I-40-1(283)20	2V

SHELBY CO. I-40



I-40 STA. 487+68.08

TRENCH DRAIN DETAIL



DETAIL FOR CURB TRANSITION

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DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	2J
CONST.	2014	NH-I-40-1(283)20	2W

SHELBY CO. I-40

REV. 11/30/12 REVISED DRAINAGE TABLES

REV. 05/17/13 REVISED DRAINAGE TABLES

CATCH BASINS

	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS										
											TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 12 611-12.03 8' - 12'	TYPE 14 611-14.02 4' - 8'	TYPE 31 611-31.02 4' - 8'	TYPE 31 611-31.03 8' - 12'	TYPE 31 611-31.04 12' - 16'	TYPE 38 611-38.01 0' - 4'	TYPE 38 611-38.02 4' - 8'	TYPE 39 611-39.02 4' - 8'	TYPE 39 611-39.03 8' - 12'
	4B	I-40	479+67	114.77 LT	87	395.33	39		4.85	D-CB-39RB										1	
	5B	I-40	480+10	1.72 LT	85	397.40	39		5.15	D-CB-39RB										1	
	5B	I-40	485+64	0	91	395.60	39		9.73	D-CB-39SE											1
	5B	I-40	487+68.08	0	11	396.57	31		11.57	D-CB-31SD						1					
	5B	I-40	489+75	0	95	397.01	31		6.85	D-CB-31R					1						
	6B	I-40	492+85	0	94	398.31	31		4.95	D-CB-31R					1						
	6B	I-40	495+95	0	93	399.62	31		4.30	D-CB-31R					1						
	6B	I-40	502+85	0	96	398.50	31		4.50	D-CB-31R					1						
	6B	I-40	504+63.09	0	97	396.36	31		12.73	D-CB-31R							1				
	6B	RAMP C	22+00	31.18 RT	17	392.75	38		3.00	D-CB-38								1			
2	6B	RAMP A1	30+57	29.92 RT	29	420.32	12		4.30	D-CB-12P		1									
	6B	RAMP A2	32+07	41.09 LT	30	413.30	38		6.05	D-CB-38RB									1		
	6B	RAMP A	32+13	28.00 RT	27	420.30	38S		3.00	D-CB-38S								1			
2	6B	CANADA RD	209+60	44.00 RT	45	418.94	12		6.59	D-CB-12		1									
2	6B	CANADA RD	210+78	44.00 LT	28	422.64	12		8.00	D-CB-12RA		1									
	6B	RAMP B	12+81	64.00 RT	43	416.94	38S		3.00	D-CB-38S								1			
2	6B	CANADA RD	211+35	44.00 RT	44	423.89	12		10.52	D-CB-12			1								
	6B	RAMP D	12+97	61.39 LT	53	418.45	38S		3.12	D-CB-38S								1			
2	6B	CANADA RD	215+11	44.00 LT	54	423.38	12		8.94	D-CB-12			1								
2	6B	CANADA RD	215+33	44.00 RT	65	422.88	12		10.11	D-CB-12			1								
	6B	RAMP C1	26+78	59.28 LT	66	415.00	38		3.80	D-CB-38								1			
2	6B	CANADA RD	216+60	44.00 LT	55	419.03	12		5.45	D-CB-12		1									
2	6B	CANADA RD	217+00	44.00 RT	64	417.66	12		3.80	D-CB-12	1										
2	8B	CANADA RD	195+50	40.25 LT	39	370.03	12RA		5.03	D-CB-12RA		1									
2	8B	CANADA RD	195+50	40.00 RT	51	369.96	12RA		4.75	D-CB-12RA		1									
2	8B	CANADA RD	197+95	46.37 LT	38	378.43	12		5.98	D-CB-12		1									
2	8B	CANADA RD	198+75	40.00 RT	50	381.09	12		4.40	D-CB-12P		1									
2	8B	CANADA RD	200+40	52.53 LT	37	386.56	12		5.19	D-CB-12		1									
2	9B	CANADA RD	202+18	46.76 RT	49	392.042	14		4.39	D-CB-14		1									
2	9B	CANADA RD	202+90	58.00 LT	36	394.43	12		4.00	D-CB-12	1										
2	9B	CANADA RD	205+00	54.00 RT	48	402.11	12		4.40	D-CB-12		1									
2	9B	CANADA RD	205+41	38.21 LT	34	404.00	14		4.60	D-CB-14				1							
2	9B	CANADA RD	205+41	62.23 LT	35	403.63	12		4.96	D-CB-12		1									
2	9B	CANADA RD	206+00	40.00 LT	33	406.00	12		4.82	D-CB-12		1									
2	9B	CANADA RD	206+62	54.00 RT	47	407.97	12		4.43	D-CB-12		1									
2	9B	CANADA RD	208+00	42.64 LT	32	413.18	12		6.00	D-CB-12		1									
2	9B	CANADA RD	208+08	54.00 RT	46	413.24	12		4.40	D-CB-12		1									
2	10B	CANADA RD	219+23	52.34 LT	57	410.08	14		4.66	D-CB-14				1							
2	10B	CANADA RD	219+40	50.00 RT	68	409.70	14		4.50	D-CB-14				1							
2	10B	CANADA RD	220+68	50.00 RT	69	407.01	14		4.50	D-CB-14				1							
2	10B	CANADA RD	221+17	44.00 LT	58	406.47	14		7.45	D-CB-14				1							
2	10B	CANADA RD	221+20	50.00 RT	70	406.34	14		4.50	D-CB-14				1							
2	10B	CANADA RD	221+70	50.00 RT	71	405.92	12		4.53	D-CB-12		1									
2	10B	CANADA RD	222+80	50.00 RT	72	405.36	12		5.21	D-CB-12		1									
2	10B	CANADA RD	222+80	44.00 LT	59	405.48	12RA		8.26	D-CB-12RA			1								
2	10B	CANADA RD	225+50	34.50 LT	62	404.35	12		3.75	D-CB-12	1										
2	10B	CANADA RD	225+50	34.50 RT	74	404.36	12		3.74	D-CB-12	1										
2	10B	BEV. RIVERA - DAVIES PLANTATION RD	8+09	26+00 RT	61	399.62	12		6.33	D-CB-12		1									
2	10B	BEV. RIVERA - DAVIES PLANTATION RD	12+83	24.00 RT	75	400.05	14		5.42	D-CB-14P				1							
2	10B	CONNECTOR RD	10+16	52 LT	77	399.19	12		4.59	D-CB-12		1									
2	10B	CONNECTOR RD	10+58	14 LT	78	397.52	12		4.94	D-CB-12		1									
2	10B	CONNECTOR RD	12+63	14 LT	79	393.37	12		4.07	D-CB-12		1									
2	10B	CONNECTOR RD	13+60	14 LT	80	391.90	14		4.25	D-CB-14				1							
2	10B	CONNECTOR RD	14+00.80	14 LT	81	391.76	14		4.71	D-CB-14				1							
2	10B	CONNECTOR RD	14+00.80	14 RT	82	391.76	14		4.35	D-CB-14				1							
2	10B	CONNECTOR RD	14+28	14 LT	83	391.83	12		5.28	D-CB-12		1									
	TOTALS										**4**	**23**	**4**	**10**	**4**	**1**	**1**	**5**	**1**	**2**	**1**

FOOTNOTES

1. GRATE ELEVATION SHALL BE 1.5' MINIMUM BELOW THE TOP OF RETAINING WALL.
2. THE STATION AND ELEVATION FOR CURB AND GUTTER INLETS SHOULD BE AT THE CENTERLINE OF THE GRATE AT THE GUTTER LOW POINT, ADJACENT TO THE CURB FACE.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	6C
CONST.	2014	NH-I-40-1(283)20	2W1

SHELBY CO. I-40

CATCH BASINS, MANHOLES, AND JUNCTION BOXES

	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS JB 611-02.11	TYPE 3 611-01.02 4' - 8'	TYPE 3 611-01.04 12' - 16'	TYPE 40 611-40.02 4' - 8'	TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'	TYPE 42 611-42.03 8' - 12'	TYPE 43 611-43.03 8' - 12'	TYPE 46 611-46.02 4' - 8'	TYPE 51 611-51.02 4' - 8'	TYPE 52 611-52.02 4' - 8'
	5B	I-40	487+68.08	70.24 LT	10	--	JB		5.00	D-JBS-2	1										
	5B	I-40	490+40	72 LT	7C	396.76	52		5.85	D-CB-52SE											1
	5B	I-40	490+70	72 RT	1C	396.89	51		5.28	D-CB-51SC										1	
	5B	I-40	487+68.08	70.14 RT	14A	396.00	43		11.73	D-CB-43SB								1			
1	5B	RAMP A	24+00	34.88 LT	3	399.51	43		11.87	D-CB-43								1			
	5B	RAMP D	20+60	24.48 LT	8	396.43	42		6.04	D-CB-42SB						1					
	6B	I-40	493+01	72 LT	7B	397.86	51		5.28	D-CB-51SC										1	
	6B	I-40	493+50	72 RT	1B	398.07	51		4.68	D-CB-51SC										1	
	6B	I-40	495+10.63	72 LT	7A	398.74	51		5.03	D-CB-51SC										1	
	6B	I-40	496+25	72 RT	1A	399.22	51		4.04	D-CB-51SC										1	
	6B	I-40	502+85.88	72 RT	19	397.95	51		4.14	D-CB-51SC										1	
	6B	I-40	503+45	72 LT	23	397.28	51		4.04	D-CB-51SC										1	
	6B	I-40	504+85	72 RT	20	395.66	52		6.81	D-CB-52SE											1
	6B	RAMP C	22+97	36.06 RT	16	400.13	MH		13.73	D-MH-2			1								
1	6B	RAMP D	17+50	85.24 LT	6	397.33	42		3.33	D-CB-42S					1						
1	6B	RAMP D	15+50	147.68 LT	5	396.95	42		3.00	D-CB-42S					1						
1	6B	RAMP B	17+00	59.28 LT	18	398.09	42		4.03	D-CB-42S						1					
	7B	I-40	505+34.51	131.29 RT	100	386.81	40		6.55	D-CB-40SE				1							
	7B	I-40	505+68.07	72 LT	24A	394.70	51		5.09	D-CB-51SC										1	
	7B	I-40	506+77	72 LT	24B	393.44	51		4.68	D-CB-51SC										1	
	7B	I-40	508+60	0	98	391.84	46		4.50	D-CB-46SE									1		
1	7B	RAMP C	21+00	29.21 LT	22	398.84	42		8.07	D-CB-42SB							1				
	7B	RAMP C	19+01	21.84 LT	25	392.67	42		4.57	D-CB-42RB						1					
	10B	CANADA RD	223+14	53.06 LT	60	396.71	JB		8.69	D-JBS-2	1										
	10B	CONNECTOR RD	14+74.11	27.70 RT	84	392.25	MH		6.55	D-MH-2		1									
	10B	CANADA RD	223+50	50.26 RT	73	405.30	MH		6.32	D-MH-2		1									
	TOTALS										**2**	**2**	**1**	**1**	**2**	**3**	**1**	**2**	**1**	**9**	**2**

FOOTNOTES

1. GRATE ELEVATION SHALL BE 1.5' MINIMUM BELOW THE TOP OF RETAINING WALL.
2. THE STATION AND ELEVATION FOR CURB AND GUTTER INLETS SHOULD BE AT THE CENTERLINE OF THE GRATE AT THE GUTTER LOW POINT, ADJACENT TO THE CURB FACE.

RIP-RAP DITCHES

STATION FROM	STATION TO	SIDE LT	SIDE RT	WIDTH (L.F.)	LENGTH (L.F.)	RIP-RAP 709-05.08 (TONS)	REMARKS
RAMP C1 27+00			56				
	27+14 RAMP C1		95	2' V-DITCH	33	3	3:1 FILL SLOPE
TOTALS						**3**	

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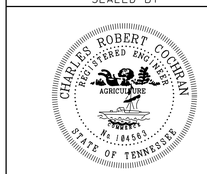

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2W2

SHELBY CO. I-40

STORM DRAINAGE PIPES

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.) 18"	24"	30"	36"	42"	RIP-RAP 709-05.06 (TON)
5B	1C	391.61	2	388.18	1.41152	243					
5B	2	388.08	3	387.94	3.5	4					
5B	3	387.44	4	386.27	1.34483		87				5.08
5B	7C	390.91	8	390.39	0.89655		58				
5B	8	390.39	10	388.31	1.01463		205				
5B	95	390.16	11	388.10	1.03	200					
5B	85	392.25	86	389.70	1.96154	130					2.63
6B	1A	395.18	1B	393.49	0.6306	268					
6B	1B	393.39	1C	391.71	0.61538	273					
6B	5	393.95	7A	393.8	3	5					
6B	7A	393.71	7B	392.66	0.5122		205				
6B	6	394	7B	393.82	3.6	5					
6B	7B	392.58	7C	391.01	0.61811		254				
6B	15	393.56	16	392.12	1.5	96					
6B	17	389.75	16	388.34	1.53261	92					
6B	18	394.06	19	393.91	3	5					
6B	19	393.81	20	389.83	2.07292	192					
6B	20	388.85	21	387.40	2.68519	54					
6B	23	393.24	24A	390.11	1.43578	218					
6B	27	417.30	28	416.86	0.53659	82					
6B	28	414.64	30	410.30	4.52083	96					
6B	29	416.02	30	410.30	3.42515	167					
6B	30	407.25	31	404.23	2.84906	106					1.38
6B	43	413.94	44	413.47	0.71212	66					
6B	44	413.37	45	412.45	0.52571	175					
6B	45	412.35	46	408.94	2.24342	152					
6B	53	415.33	54	414.54	1	79					
6B	54	414.44	55	413.68	0.51007	149					
6B	55	413.58	56	412.36	1.87692	65					
6B	64	413.86	65	412.77	0.65269	167					
6B	65	412.77	66	411.30	2.13043	69					
6B	66	411.20	67	409.40	1.53846	117					
6B	93	395.32	94	393.46	0.61386	303					
6B	94	393.36	95	390.26	1.0231	303					
6B	96	394.00	97	389.50	2.63158	171					
7B	22	390.77	24A	390.66	2.75	4					
7B	24A	389.61	24B	388.86	0.72115		104				
7B	24B	388.76	25	388.13	0.74118		85				

STORM DRAINAGE PIPES

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.) 18"	24"	30"	36"	42"	RIP-RAP 709-05.06 (TON)
7B	25	388.10	26	387.78	0.88889		36				2.23
7B	98	387.34	97	385.16	0.56041	389					
8B	37	381.37	38	372.55	3.6	245					
8B	38	372.45	39	365.50	2.83673	245					
8B	39	364.70	40	363.83	1.58182		55				15.17
8B	50	376.69	51	365.71	3.37846	325					
8B	51	365.21	52	363.25	1.31544		149				6.35
9B	32	407.18	33	401.70	2.75377	199					
9B	33	401.60	34	399.50	3.75	56					
9B	34	399.40	35	398.88	2.16667	24					
9B	35	398.78	36	390.53	3.32661	248					
9B	36	390.43	37	381.47	3.6129	248					
9B	46	408.84	47	403.64	3.56164	146					
9B	47	403.54	48	397.81	3.51534	163					
9B	48	397.71	49	387.75	3.51943	283					
9B	49	387.65	50	376.79	3.14783	345					
10B	57	405.42	58	399.07	3.35979	189					
10B	58	399.02	59	397.32	1.06918		159				
10B	59	397.22	60	396.71	1.45714		35				
10B	62	400.60	63	400.46	0.93333	15					
10B	68	405.20	69	402.51	2.152	125					
10B	69	402.51	70	401.84	1.42553	47					
10B	70	401.84	71	401.40	0.93617	47					
10B	71	401.39	72	400.18	1.1	110					`
10B	72	400.15	73	398.98	1.67143	70					
10B	74	400.61	73	398.98	0.81095	201					
10B	73	398.98	75	394.73	1.83983	231					
10B	75	394.63	76	393.82	2.75	30					
10B	77	394.60	78	393.57	1.82	56					
10B	78	392.58	79	389.40	1.55122	205					
10B	79	389.30	80	388.13	1.21875	96					
10B	80	387.65	81	387.11	1.35		40				
10B	82	387.41	81	387.11	1.2	25					
10B	81	387.05	83	386.65	1.49		27				
10B	83	386.55	84	385.80	1.22951		61				
TOTALS						**8419**	**1560**	**0**	**0**	**0**	**32.84**

TRENCH DRAINS

SHEET NO.	FROM CODE	FROM LOCATION	FROM STATION	FROM OFFSET	FROM GRATE/TOP ELEV.	FROM INVERT ELEV.	FROM DEPTH FT.	TO CODE	TO STATION	TO OFFSET	TO GRATE/TOP ELEV.	TO OUTLET ELEV.	TO DEPTH FT	% GRADE	STANDARD DRAWING	TRENCH DRAIN SYSTEM SIZE & LENGTH (L.F.) TRENCH DRAIN 611-05.01	12" PVC
5B	12A	I-40	487+19.58	2.17 LT	396.67	394.25	2.42	12B	487+59.58	2.17 LT	396.65	393.65	3.00	1.50	D-TD-1	40	
5B	12B	I-40	487+59.58	2.17 LT	–	393.65	--	11	487+68.08	0	396.57	392.74	3.83	18.20	D-TD-1		5
5B	12AA	I-40	487+19.58	2.17 RT	396.67	394.25	2.42	12BB	487+59.58	2.17 RT	396.65	393.65	3.00	1.50	D-TD-1	40	
5B	12BB	I-40	487+59.58	2.17 RT	–	393.65	--	11	487+68.08	0	396.57	392.74	3.83	18.20	D-TD-1		5
5B	13A	I-40	488+26.58	2.17 LT	396.68	394.40	2.28	13B	487+76.58	2.17 LT	396.65	393.65	3.00	1.50	D-TD-1	50	
5B	13B	I-40	487+76.58	2.17 LT	–	393.65	--	11	487+68.08	0	396.57	392.74	3.83	18.20	D-TD-1		5
5B	13AA	I-40	488+26.58	2.17 RT	396.68	394.40	2.28	13BB	487+76.58	2.17 RT	396.65	393.65	3.00	1.50	D-TD-1	50	
5B	13BB	I-40	487+76.58	2.17 RT	–	393.65	--	11	487+68.08	0	396.57	392.74	3.83	18.20	D-TD-1		5
TOTALS																**180**	**20**

NOTE: TRENCH DRAIN STATION AND OFFSET ARE DETERMINED AT THE CENTER OF THE GRATE. TRENCH DRAINS ARE INSTALLED ON RT AND LT SIDE OF THE CONCRETE MEDIAN BARRIER WALL.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2W3

SHELBY CO. I-40

SIDE DRAIN TABULATION

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT.					RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC OR SRTRP (LF) FILL HEIGHT > 10 FT. AND < OR = 16 FT.					END TREATMENT					REMARKS
	LT	RT		(L.F.)	18"	24"	30"	36"	48"	18"	24"	30"	36"	48"	TYPE	DRAWING NO.	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	
193+40 CANADA RD	68.32		FRONTAGE ROAD	20				35							A	D-PE-1	7.78	146	0	
TOTALS					**0**	**0**	**0**	**35**	**0**	**0**	**0**	**0**	**0**	**0**			**7.78**	**146**	**0**	

CROSS DRAIN TABULATION

STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 16 FT.					RCP CLASS IV (L.F.) FILL HEIGHT > 16 FT. AND < OR = 24 FT.					SKEW	RIP-RAP 709-05.08 (TON)	END TREATMENT							REMARKS
													INLET		OUTLET		CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	
	18"	24"	36"	42"	15"X22"	18"	24"	30"	36"	42"			TYPE	DRAWING NO.	TYPE	DRAWING NO.				
480+62.14 I-40		32									50°	N/A	39RB	D-CB-39RB	EXISTING		--	--	--	
485+64.46 I-40	73					200					75°"	2.87	U	D-PE-24A D-PE-99	U	D-PE-24A D-PE-99	3.54	339	--	
487+68.08 I-40			43	87					65	65	90°	40.91	U	D-PE-36A	U	D-PE-42A	6.11	537	308	
504+63.13 I-40			23								60°	N/A	MH	D-MH-2	CB-40	D-CB-40SE	--	--	--	
516+01.87 I-40											90°	N/A	U	D-PE-24A D-PE-99	EXISTING		2.26	215	--	
TOTALS	**73**	**32**	**66**	**87**	**0**	**200**	**0**	**0**	**65**	**65**		**44**					**12**	**1091**	**308**	

STORM DRAINAGE ENDWALLS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)
5B	RAMP A	24+05	53.94 RT	4	U	D-PE-24A	1.28	124	0
5B	RAMP A	16+69	32.71 RT	86	U	D-PE-24A; D-PE-99	1.28	124	0
6B	RAMP C	23+92	65.48 RT	15	U	D-PE-18A	0.87	79	0
7B	RAMP B	19+01	32.12 RT	21	U	D-PE-18A	0.87	79	0
7B	RAMP C	19+00	16.00 RT	26	U	D-PE-24A	1.28	124	0
6B	RAMP A2	32+45	58.96 RT	31	U	D-PE-18A	0.87	79	0
6B	RAMP D1	11+50	36.78 RT	56	U	D-PE-18A	1.08	98	0
10B	CANADA RD	225+50	49.52 LT	63	U	D-PE-18A	0.87	79	0
6B	RAMP C1	27+00	56.48 RT	67	U	D-PE-18A	0.87	79	0
8B	CANADA RD	195+00	63.13 LT	40	B	D-PE-9	3.51	353	0
8B	CANADA RD	194+01	56.59 RT	52	B	D-PE-9	3.51	353	0
TOTALS							**16.29**	**1571**	**0**

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2W4

SHELBY CO. I-40

TABULATED PAVEMENT QUANTITIES

LOCATION	PAY ITEMS																					
	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	307-02.01 (TON)	307-02.02 (TON)	307-02.03 (TON)	307-02.08 (TON)	307-03.01 (TON)	307-03.02 (TON)	307-03.03 (TON)	307-03.08 (TON)	309-01.01 (TON)	309-01.02 (TON)	309-02 (TON)	203-06 (M.G.)	313-03 (S.Y.)	402-01 (TON)	403-01 (TON)	411-01.10 (TON)	411-01.07 (TON)	411-02.10 (TON)	411-03.10 (TON)	501-01.03 (S.Y.)
Canada Rd				3940	101	2980	2580					6800	270	30							1520		
Canada Rd. Shoulders	312		40																	22			
Davies Plantation	710	220	150																90				
Davies Shoulders	293		13																	10			
Beverley Rivera	763	200	131																80				
Conc. Ramps	5400															15900.00							15900.00
Conc. Ramp Shoulders	7900															4090.00							4090.00
Frontage Rd.	2280		480																230				
Frontage Rd. Shoulders	1890		80																	50			
Connector Rd.	990	240	160																90				
I-40								6020	144	4267	1320	7940	310	22	62							1550	
I-40 Shoulders	16200		1660																	970			
Asph. Ramps								4140	47	1394	910	2590	100	7	21							530	
Driveways	564		219																150				
Temp. Ramp A	1691			552	20	424	368																
Temp. Ramp C	1737			575	20	435	380																
Prime Coat																	180						
Tack Coat																		70					
Asph. Ramp Shoulders	12100		810																	470			
TOTALS	**52830.0**	**660.0**	**3743.0**	**5067.0**	**141.0**	**3839.0**	**3328.0**	**10160.0**	**191.0**	**5661.0**	**2230.0**	**17330.0**	**680.0**	**59.0**	**83.0**	**19990.0**	**180.0**	**70.0**	**640.0**	**1522.0**	**1520.0**	**2080.0**	**19990.0**

REMOVAL OF BUILDINGS AND OBSTRUCTIONS

SHEET NO.	DESCRIPTION	PAY ITEM 202-01 UNIT	PAY ITEM 202-01 QUANTITY
5	REMOVE 18" CMP I-40 STA. 487+78 TO I-40 STA. 488+04	L.F.	26
6	REMOVE 18" RCP CANADA RD STA. 216+63 OFF. 61.67 LT. TO STA. 218+52 OFF. 50.37 LT.	L.F.	189
6	REMOVE 18" RCP RAMP B STA. 17+59 OFF. 34.35 LT. TO 18+09 OFF. 8.25 RT.	L.F.	65
9	REMOVE 8" RCP CANADA RD STA. 206+57 OFF. 53.39 RT. TO STA. 207+23 OFF. 52.25 RT.	L.F.	117
9	REMOVAL OF CURB ISLAND CANADA RD. STA. 201+20 TO STA. 201+47	L.F.	28
9	REMOVAL OF CURB AND GUTTER CANADA RD STA. 204+45 OFF. 44' RT. TO STA. 209+88 OFF.58' RT.	L.F.	625
10	REMOVE 18" RCP CANADA RD STA. 220+78 OFF. 24.24 LT. TO 221+10 OFF. 48.31 LT.	L.F.	40
10	REMOVE 24" RCP CANADA RD STA. 221+10 OFF. 48.31 LT. TO 223+10 OFF. 55.29 LT.	L.F.	198
10	REMOVE 15" RCP BEVERLE RIVERA STA. 12+78 OFF. 26.33 RT. TO STA. 13+08 OFF. 8.65 RT.	L.F.	35
10	REMOVE 21" RCP BEVERLE RIVERA STA. 14+66 OFF. 54.32 RT. TO STA. 14+84 OFF. 27.95	L.F.	32
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 216+90 OFF. 45' RT. TO 218+72 OFF. 63' RT	L.F.	192
10	REMOVAL OF CURB AND GUTTER CANADA RD STA. 217+64 OFF. 58' RT TO OFF. 97' RT.	L.F.	39
10	REMOVAL OF CURB AND GUTTER CANADA RD STA. 217+92 OFF. 58' RT. TO OFF. 97' RT.	L.F.	39
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 218+72 OFF. 63' RT TO 266' RT. (ALONG HUFF-N-PUFF ROAD)	L.F.	203
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 217+15 OFF. 0 TO 92' LT.	L.F.	92
10	REMOVAL OF CURB ISLAND CANADA RD. STA. 217+65 OFF. 0 TO 98' LT.	L.F.	98
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 218+12 OFF. 0 TO 91' LT.	L.F.	91
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 219+10 OFF. 0 TO 71' LT.	L.F.	71
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 219+58 OFF. 0 TO 64' LT.	L.F.	64
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 219+80 OFF. 44' RT. TO STA 220+60 OFF. 44' RT.	L.F.	80
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 220+86 OFF. 49.90 LT. TO STA. 223+23 OFF. 70.56 LT.	L.F.	237
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 221+00 OFF. 44' RT. TO STA. 221+18 OFF. 44' RT.	L.F.	18
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 224+40 OFF. 38' RT. TO OFF. 72' RT.	L.F.	34
10	REMOVAL OF CURB AND GUTTER CANADA RD. STA. 224+99 OFF. 40' RT. TO OFF. 72' RT.	L.F.	32
10	REMOVAL OF CURB AND GUTTER BEVERLE RIVERA STA. 6+80 OFF. 32' RT. TO STA. 9+30 STA. OFF. 40' RT.	L.F.	250
10	REMOVAL OF CURB AND GUTTER BEVERLE RIVERA STA. 10+55 OFF. 65' LT. TO STA. 12+00 OFF. 19' LT.	LF.	170
10	REMOVAL OF CURB AND GUTTER BEVERLE RIVERA STA. 10+47 OFF. 69' RT. TO STA. 12+00 OFF. 29' RT.	LF.	172
10	REMOVAL OF CURB AND GUTTER BEVERLE RIVERA STA. 14+08 OFF. 29' RT. TO STA. 15+03 OFF. 29' RT.	LF.	95
10	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC. BEVERLE RIVERA STA. 6+80 OFF. 35' RT. TO STA. 9+27 OFF. 44' RT.	S.Y.	140
10	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC. CANADA RD STA. 220+87 OFF. 55' LT. TO STA. 223+18 OFF. 73' LT.	S.Y.	176
10	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC. CANADA RD STA. 216+90 OFF. 52' RT. TO STA. 218+61 OFF. 55' RT	S.Y.	114
10	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC. CANADA RD STA. 218+61 OFFSET 52' RT TO OFFSET 251' RT. (ALONG HUFF-N-PUFF ROAD)	S.Y.	108
10	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC. CANADA RD STA. 219+80 OFF. 64' RT TO STA. 220+60 OFF. 64' RT	S.Y.	53
10	REMOVAL OF TIMBER WALL CANADA RD. STA. 218+55 OFF. 168' TO OFF. 217' (ALONG HUFF-N-PUFF ROAD)	L.F.	49

NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	2W5

SHELBY CO. I-40

ESTIMATED GRADING QUANTITIES

Alignment	ROAD & DRAINAGE EXC. (UNCL.)		EMBANKMENT		CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
	COMMON - C.Y.	S. ROCK - C.Y.	UNCL. - C.Y.	S. ROCK - C.Y.			
CANADA ROAD	7201		20837				
RAMP A	893		74548				
TEMPORARY RAMP A	0		13710				
RAMP A1	0		15881				
RAMP A2	505		14350				
RAMP B	5818		23455				
RAMP B1	142		7418				
RAMP C	3302		35116				
TEMPORARY RAMP C	703		6761				
RAMP C1	0		4848				
RAMP D	9183		36170				
RAMP D1	111		13440				
FRONTAGE ROAD	1554		1546				
BEVERLE RIV/DAVIES	2014		489				
CONNECTOR ROAD	871		94				
I-40 STA. 487+00 TO 508+00	6561		1728				
TOTALS	**38858**	**0**	**270391**	**0**	**0**	**0**	**0**

EARTHWORK CALCULATIONS (UNBALANCED)

EXCAVATION (UNCL.) 38858 C.Y.

EMBANKMENT (EMB.) 270391 C.Y.

SHRINKAGE FACTOR = 20%

$\frac{\text{38858 C.Y. (EXC.)}}{1.2}$ VS. 270391 C.Y. (EMB.)

32390 C.Y. (EXC.) VS. 270391 C.Y. (EMB.)

238001 C.Y. BORROW EXC. (UNADJUSTED)

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	3
R.O.W.	2012	IM-40-I(316)	3
CONST.	2014	NH-I-40-1(283)20	3

SHELBY CO. I-40

REV. 11/30/2012 ADDED "Z" HOOKS TO TRACTS 7 & 23. ADDED LABEL TO TRACT 7. REVISED R.O.W. AND EASEMENTS TO TRACTS 4, 7, 8, 14, 16, & 24. REVISED C. A. FENCE ON TRACTS 4 & 8. REMOVED CONST. EASEMENT FROM TRACT 15. REVISED EXISTING ROW AND PROPERTY LINES AND MODIFIED PERMANENT DRAINAGE ESM'T TO MATCH RECORDED PLAT ON TRACT 23.

REV. 12/14/2012 REVISED PROPERTY OWNERS NAMES ON TRACTS 4, 6, 14, 15, 30 & 33.

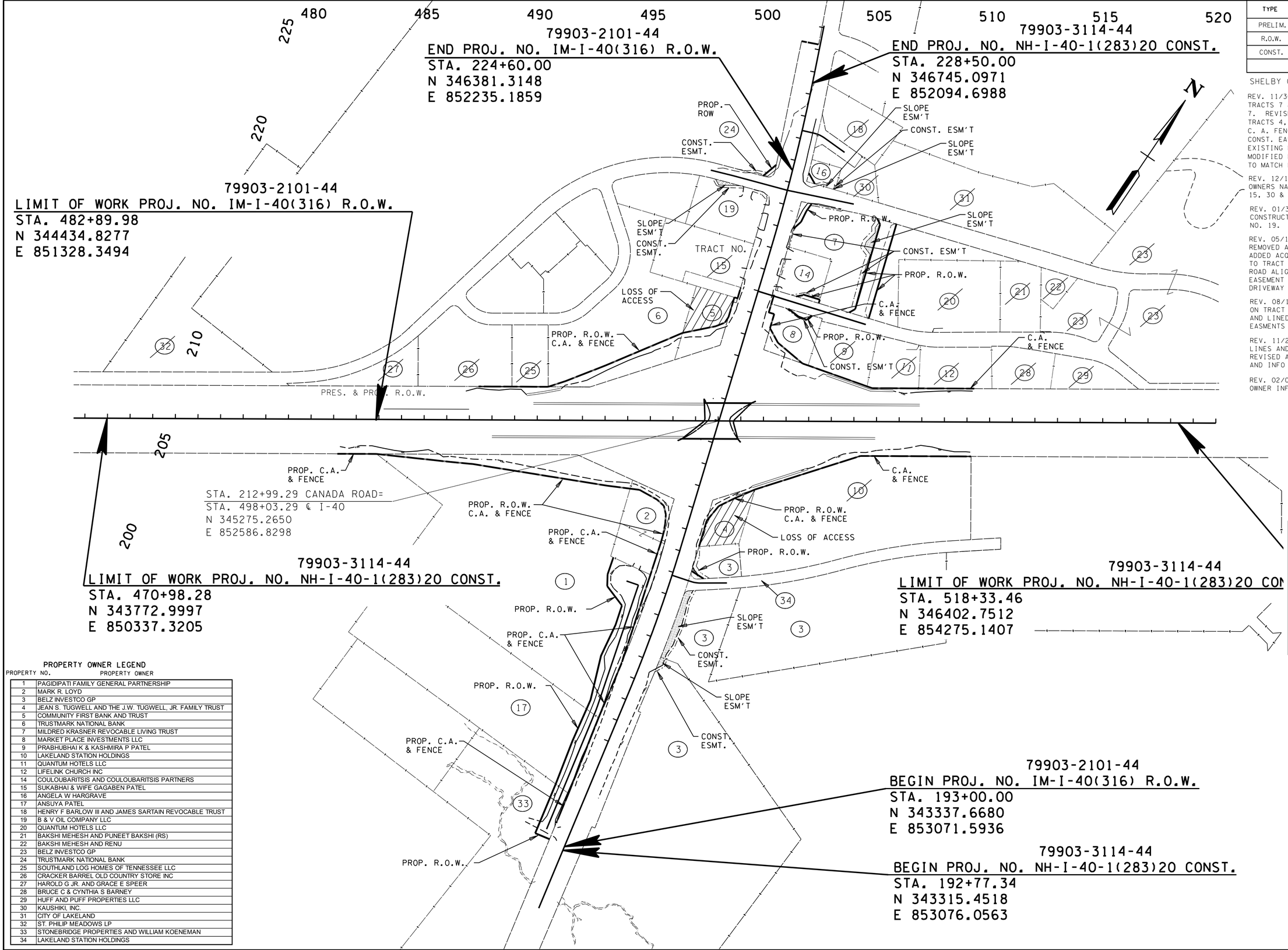
REV. 01/30/2013 REVISED TEMPORARY CONSTRUCTION EASEMENT ON TRACT NO. 19.

REV. 05/17/2013 REVISED OWNER'S TABLE. REMOVED ACQUISITION FROM TRACT 23. ADDED ACQUISITIONS AND EASEMENTS TO TRACT 7 TO REFLECT NEW CONNECTOR ROAD ALIGNMENT. REVISED CONSTRUCTION EASEMENT ON TRACT 16 TO REFLECT NEW DRIVEWAY LOCATION. ADDED TRACT 34.

REV. 08/18/2013 REVISED OWNER'S NAME ON TRACT 30. REMOVED EASMENTS FROM AND LINED THRU TRACT 30. REVISED EASMENTS ON TRACT NO. 16.

REV. 11/29/2013 REVISED PROPERTY LINES AND INFO FOR TRACTS 1 & 2. REVISED ACQUISITION LINE WORK AND INFO FOR TRACTS 1 & 2.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



PROPERTY OWNER LEGEND

PROPERTY NO.	PROPERTY OWNER
1	PAGIDIPATI FAMILY GENERAL PARTNERSHIP
2	MARK R. LOYD
3	BELZ INVESTCO GP
4	JEAN S. TUGWELL AND THE J.W. TUGWELL, JR. FAMILY TRUST
5	COMMUNITY FIRST BANK AND TRUST
6	TRUSTMARK NATIONAL BANK
7	MILDRED KRASNER REVOCABLE LIVING TRUST
8	MARKET PLACE INVESTMENTS LLC
9	PRABHUBHAI K & KASHMIRA P PATEL
10	LAKELAND STATION HOLDINGS
11	QUANTUM HOTELS LLC
12	LIFELINK CHURCH INC
14	COULOUBARITSIS AND COULOUBARITSIS PARTNERS
15	SUKABHAI & WIFE GAGABEN PATEL
16	ANGELA W HARGRAVE
17	ANSUYA PATEL
18	HENRY F BARLOW III AND JAMES SARTAIN REVOCABLE TRUST
19	B & V OIL COMPANY LLC
20	QUANTUM HOTELS LLC
21	BAKSHI MEHESH AND PUNEET BAKSHI (RS)
22	BAKSHI MEHESH AND RENU
23	BELZ INVESTCO GP
24	TRUSTMARK NATIONAL BANK
25	SOUTHLAND LOG HOMES OF TENNESSEE LLC
26	CRACKER BARREL OLD COUNTRY STORE INC
27	HAROLD G JR. AND GRACE E SPEER
28	BRUCE C & CYNTHIA S BARNEY
29	HUFF AND PUFF PROPERTIES LLC
30	KAUSHIKI, INC.
31	CITY OF LAKELAND
32	ST. PHILIP MEADOWS LP
33	STONEBRIDGE PROPERTIES AND WILLIAM KOENEMAN
34	LAKELAND STATION HOLDINGS

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	3A
R.O.W.	2012	IM-40-I(316)	3A
CONST.	2014	NH-I-40-1(283)20	3A

SHELBY CO. I-40

REV. 11/30/2012 REVISED TOTAL AREA RIGHT AND AREA REMAINING ON TRACT 4. REMOVED CONSTRUCTION EASEMENT ACQUISITION DATA FROM TRACT 15 AND PLACED LINE THRU TRACT NO. REVISED ACQUISITIONS ON TRACTS 7, 8, 14, 16 & 24. REVISED ACQUISITION DATA FOR PERMANENT DRAINAGE, SLOPE AND CONST. ON TRACT 23. ADDED FOOTNOTES FOR TRACTS 4 AND 5.

REV. 12/14/2012 REVISED DATA IN ACQUISTION TABLE ON TRACTS 3, 4, 6, 15, 16, 17, 23, 30, & 33. EXTENDED LINES THRU TRACTS ON ACQUISITION TABLE.

REV. 01/30/2013 REVISED DATA IN ACQUISTION TABLE ON TRACTS 3 & 19. LINED THRU TRACT 15 ON ACQUISITION TABLE.

REV. 05/17/2013 REVISED ACQUISITION ON TRACT 7. REVISED EASEMENT TAKES ON TRACTS 7 AND 16. REVISED EXIST. R.O.W. FOR BEVERLE RIVERA DRIVE. REMOVED ACQUISITIONS AND EASEMENTS FROM TRACT 23. REVISED OWNERS NAMES ON TRACTS 3, 5 AND 23. ADDED TRACT 34.

REV. 07/17/2013 REVISED DATA IN ACQUISTION TABLE ON TRACTS 3.

REV. 08/18/2013 REVISED EASEMENTS ON TRACT 16. REVISED OWNERS NAME AND DEED INFORMATION ON TRACT 30. REMOVED EASEMENTS FROM AND LINED THRU TRACT 30.

REV. 11/29/2013 REVISED PROPERTY AND ACQUISITION INFORMATION FOR TRACT 1 AND FOR TRACT 2.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
1	PAGIDIPATI FAMILY GENERAL PARTNERSHIP	L0159	00124	HB	5674	18.076		18.076	3.226		3.226	14.850				
2	MARK R. LOYD	L0159	00123	HB	9704	1.584		1.584	0.202		0.202	1.382				
② 3	BELZ INVESTCO GP	L0159	00445	FJ	9401		124.680	124.680		885 S.F.	885 S.F.		124.660		0.229 AC	0.126 AC ③
		L0159	00139	H4	6344											
		L0159	00139	FJ	9401											
4	JEAN S. TUGWELL AND THE J.W. TUGWELL, JR. FAMILY TRUST	L0159	00135	HN	5005		0.887	0.887		0.108	0.108		0.779①			572
5	COMMUNITY FIRST BANK AND TRUST	L0159	00118	12114380		1.130		1.130	0.459		0.459	0.671①				
6	TRUSTMARK NATIONAL BANK	L0159	00542C	10060050		5.990		5.990	0.911		0.911	5.079				
7	MILDRED KRASNER REVOCABLE LIVING TRUST	L0159	00119	05181501			3.280	3.280		0.775	0.775		2.505		0.105 AC	0.273 AC
8	MARKET PLACE INVESTMENTS LLC	L0159	00121	09009008			1.040	1.040		0.201	0.201		0.839			681
~~9~~	~~PRABHUBHAI K & KASHMIRA P PATEL~~	~~L0159~~	~~00146C~~	~~GA~~	~~6845~~		~~1.380~~	~~1.380~~					~~1.380~~			
~~10~~	~~LAKELAND STATION HOLDINGS~~	~~L0159~~	~~00443~~	~~07125970~~			~~8.340~~	~~8.340~~					~~8.340~~			
~~11~~	~~QUANTUM HOTELS LLC~~	~~L0159~~	~~00410~~	~~FD~~	~~1808~~		~~1.000~~	~~1.000~~					~~1.000~~			
~~12~~	~~LIFELINK CHURCH INC~~	~~L0159~~	~~00409~~	~~08130187~~			~~1.350~~	~~1.350~~					~~1.350~~			
14	COULOUBARITSIS AND COULOUBARITSIS PARTNERS	L0159	00120	05077944			0.910	0.910		1496 S.F.	1496 S.F.		0.876			1906
~~15~~	~~SUKABHAI & WIFE GAGABEN PATEL~~	~~L0159~~	~~00117C~~	~~AS~~	~~0908~~	~~2.310~~		~~2.310~~				~~2.310~~				
				X6	9722											
				X6	1161											
16	ANGELA W HARGRAVE	L0159	00378	11056009			0.300	0.300		722 S.F.	722 S.F.		0.283		483	536
17	ANSUYA PATEL	L0159	00125	HJ	0747		9.330	9.330		0.561	0.561		8.769			
				HJ	0748											
				HE	8541											
				HJ	0746											
~~18~~	~~HENRY F BARLOW III AND JAMES SARTAIN REVOCABLE TRUST~~	~~L0159~~	~~00226~~	~~11003407~~			~~1.500~~	~~1.500~~					~~1.500~~			
19	B & V OIL COMPANY LLC	L0159	00419	HF	2164	1.650		1.650				1.650			1277	2206
~~20~~	~~QUANTUM HOTELS LLC~~	~~L0159~~	~~0142C~~	~~FS~~	~~6754~~		~~4.910~~	~~4.910~~					~~4.910~~			
~~21~~	~~BAKSHI MEHESH AND PUNEET BAKSHI (RS)~~	~~L0159~~	~~00143~~	~~08036464~~			~~1.240~~	~~1.240~~					~~1.240~~			
~~22~~	~~BAKSHI MEHESH AND RENU~~	~~L0159~~	~~00493~~	~~JU~~	~~7273~~		~~0.440~~	~~0.440~~					~~0.440~~			~~135~~
② ~~23~~	~~BELZ INVESTCO GP~~	~~L0159~~	~~00571~~	~~AW~~	~~5946~~		~~47.220~~	~~47.220~~					~~47.220~~	~~2965~~	~~0.156 AC~~	~~0.228 AC~~
		L0159	00572													
		L0159	00573													
		L0159	00574													
24	TRUSTMARK NATIONAL BANK	L0159	00395	10060050		101.950		101.950	1248 S.F.		1248 S.F.	101.921			279	976
~~25~~	~~SOUTHLAND LOG HOMES OF TENNESSEE LLC~~	~~L0159~~	~~00541~~	~~04061644~~		~~1.000~~		~~1.000~~				~~1.000~~				
~~26~~	~~CRACKER BARREL OLD COUNTRY STORE INC~~	~~L0159~~	~~00530~~	~~04043932~~		~~2.700~~		~~2.700~~				~~2.700~~				
~~27~~	~~HAROLD C JR. AND GRACE E SPEER~~	~~L0159~~	~~00421~~	~~JX~~	~~0173~~	~~1.000~~		~~1.000~~				~~1.000~~				
~~28~~	~~BRUCE C & CYNTHIA S BARNEY~~	~~L0159~~	~~00514~~	~~07101499~~			~~1.080~~	~~1.080~~					~~1.080~~			
~~29~~	~~HUFF AND PUFF PROPERTIES LLC~~	~~L0159~~	~~00515~~	~~04199249~~			~~0.900~~	~~0.900~~					~~0.900~~			
~~30~~	~~KAUCHIKI, INC.~~	~~L0159~~	~~00459~~	~~13072047~~			~~0.920~~	~~0.920~~					~~0.920~~			
~~31~~	~~CITY OF LAKELAND~~	~~L0159~~	~~00404~~	~~05023029~~			~~0.450~~	~~0.450~~					~~0.450~~			
~~32~~	~~ST. PHILIP MEADOWS LP~~	~~B0159~~	~~00375~~	~~GD~~	~~3154~~	~~6.200~~		~~6.200~~				~~6.200~~				
33	STONEBRIDGE PROPERTIES AND WILLIAM KOENEMAN	L0159	00530	10123742		17.100		17.100	0.357		0.357	16.743				
				BR	9240											
~~34~~	~~LAKELAND STATION HOLDINGS~~			~~07125970~~			~~1.670~~	~~1.670~~					~~1.670~~			

① AREAS REMAINING ARE LOSS OF ACCESS

② NAME CHANGED UNDER CERTIFICATE OF MERGER, INSTRUMENT NO. JX 6670

③ 9636 SQ. FT. SLOPE EASEMENT SOUTH OF MALL DRIVE AND 331 SQ. FT. SLOPE EASEMENT NORTH OF MALL DRIVE
3312 SQ. FT. CONSTRUCTION EASEMENT SOUTH OF MALL DRIVE AND 2170 SQ. FT.CONSTRUCTION EASEMENT NORTH OF MALL DRIVE.

UTILITY OWNERS

WATER, POWER, GAS: MEMPHIS LIGHT, GAS & WATER DIVISION
220 SOUTH MAIN
MEMPHIS, TN 38101
TOM WORD
PH. (901)528-4186

SEWER: CITY OF LAKELAND
10001 HIGHWAY 70
LAKELAND, TN 38002
PHILLIP STUCKERT
PH: (901)867-5418

TELEPHONE: AT&T
315 E. COLLEGE
JACKSON, TN 38301
DON ROE
PH: (731)423-5037

T.V. CABLE: COMCAST
REX MORRIS
3251 PLAYERS CLUB PARKWAY
MEMPHIS, TN 38125
PH: (901) 435-9698

R I G H T - O F - W A Y N O T E S

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 THEREFROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS PART OF THE CONSTRUCTION CONTRACT.

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 HIGHWAYS RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

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

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.

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.

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

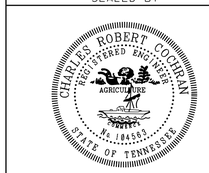
NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

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

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. ACQUISITION TABLE

2/24/2014 1:25:32 PM
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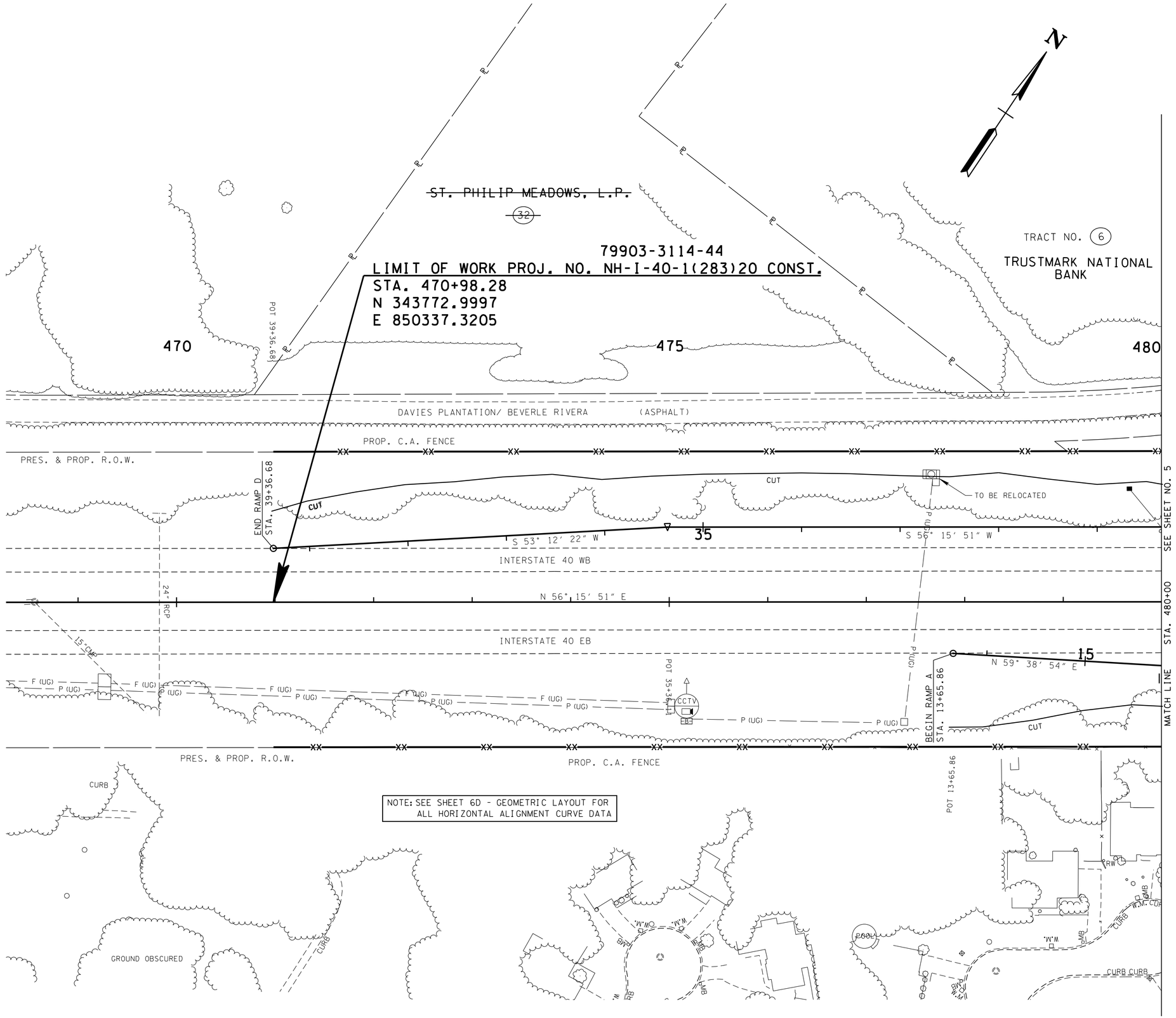
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	4
R.O.W.	2012	IM-40-I(316)	4
CONST.	2014	NH-I-40-1(283)20	4

SHELBY CO. I-40

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 6



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

UNOFFICIAL SET

NOT FOR BIDDING

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

B.O.P. TO STA. 480+00

SCALE: 1"=50'

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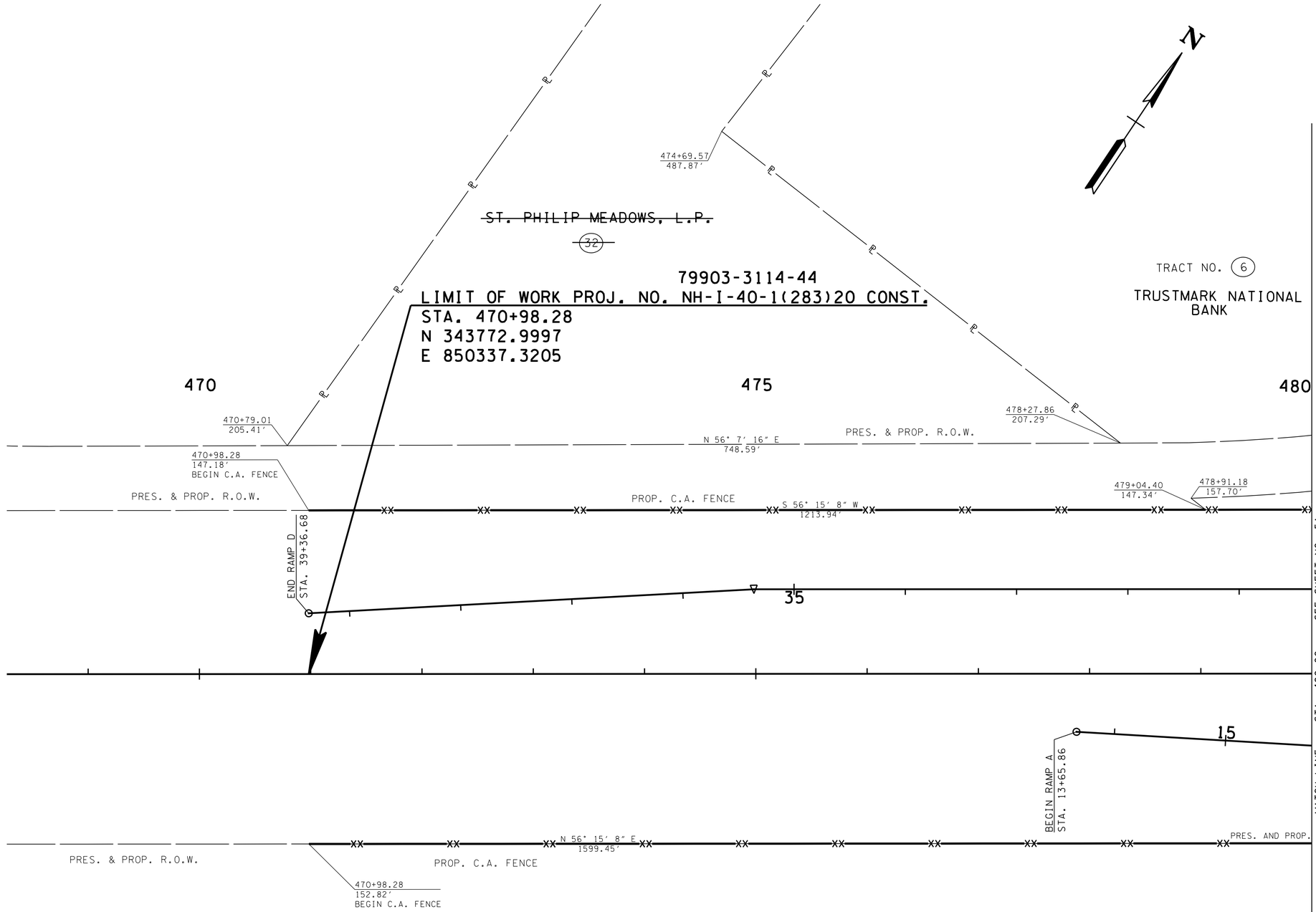
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	4A
R.O.W.	2012	IM-40-I(316)	4A
CONST.	2014	NH-I-40-1(283)20	4A

SHELBY CO. I-40

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 6



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

B.O.P. TO STA. 480+00

SCALE: 1"=50'

12/27/2014 12:01:01 PM
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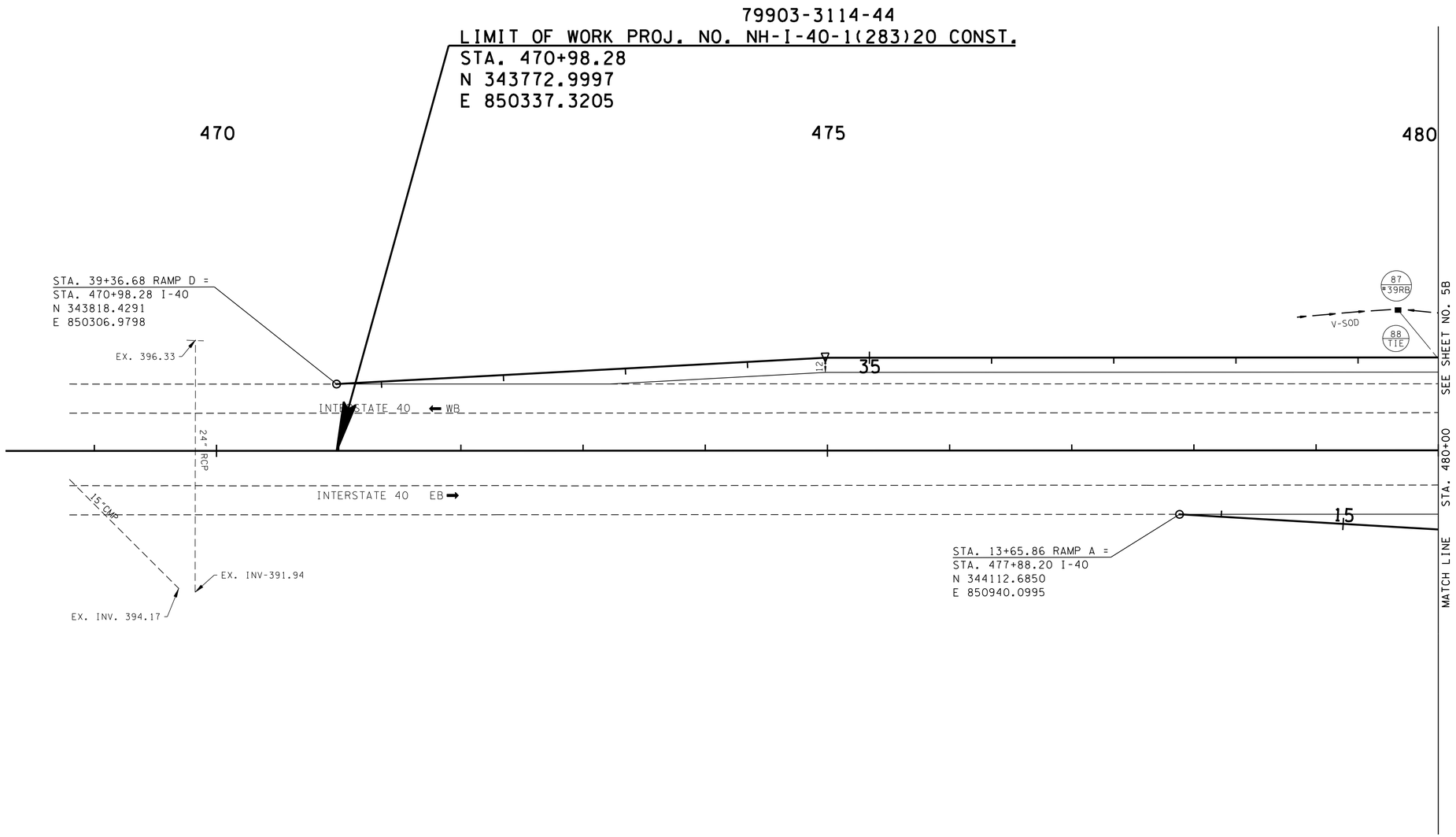
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	4B
R.O.W.	2012	IM-40-I(316)	4B
CONST.	2014	NH-I-40-1(283)20	4B

SHELBY CO. I-40



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

UNOFFICIAL SET

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SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

B.O.P. TO STA. 480+00

SCALE: 1"=50'

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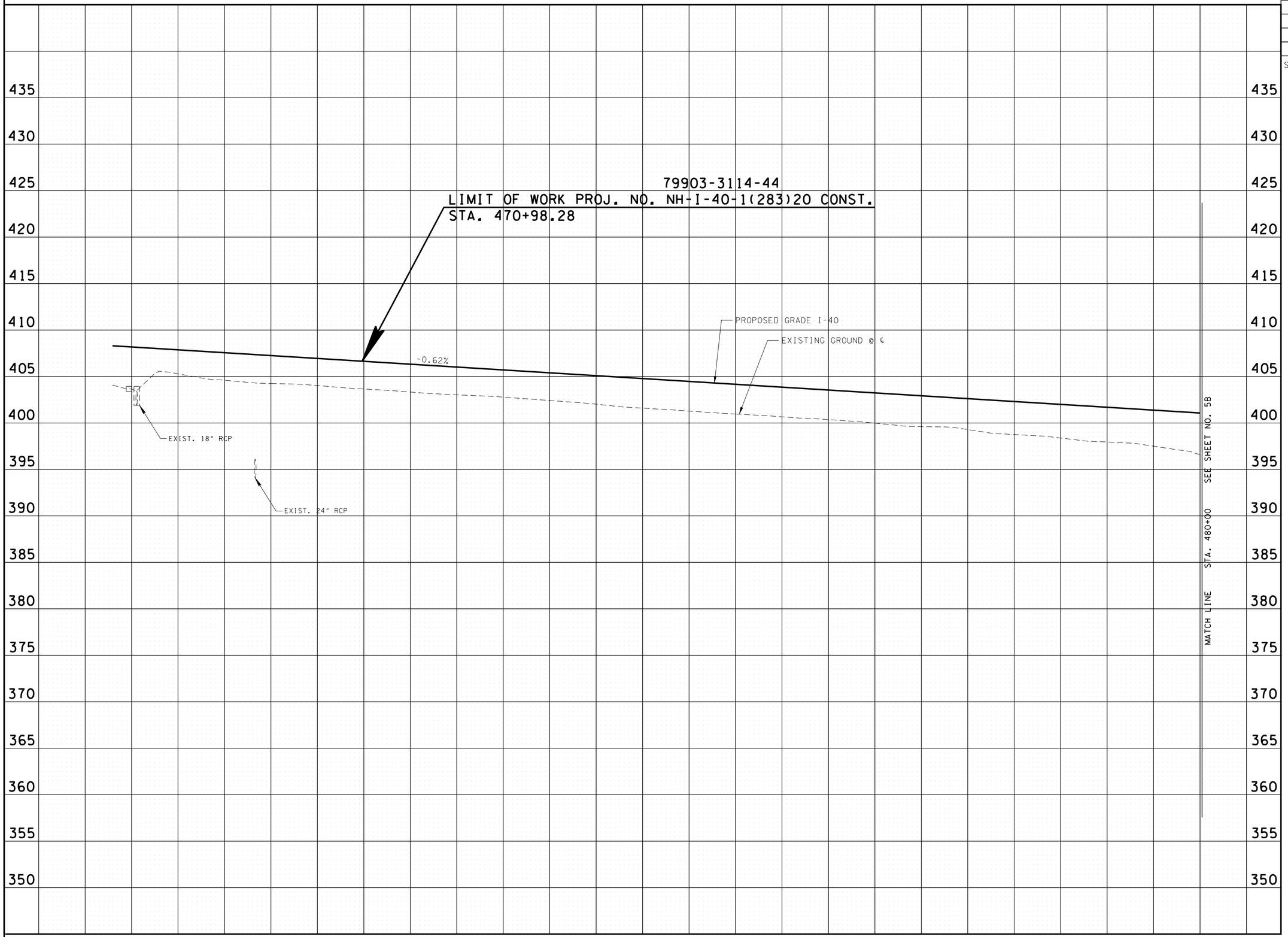
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	4C

SHELBY CO. I-40



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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
I-40

B.O.P. TO STA.480+00

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

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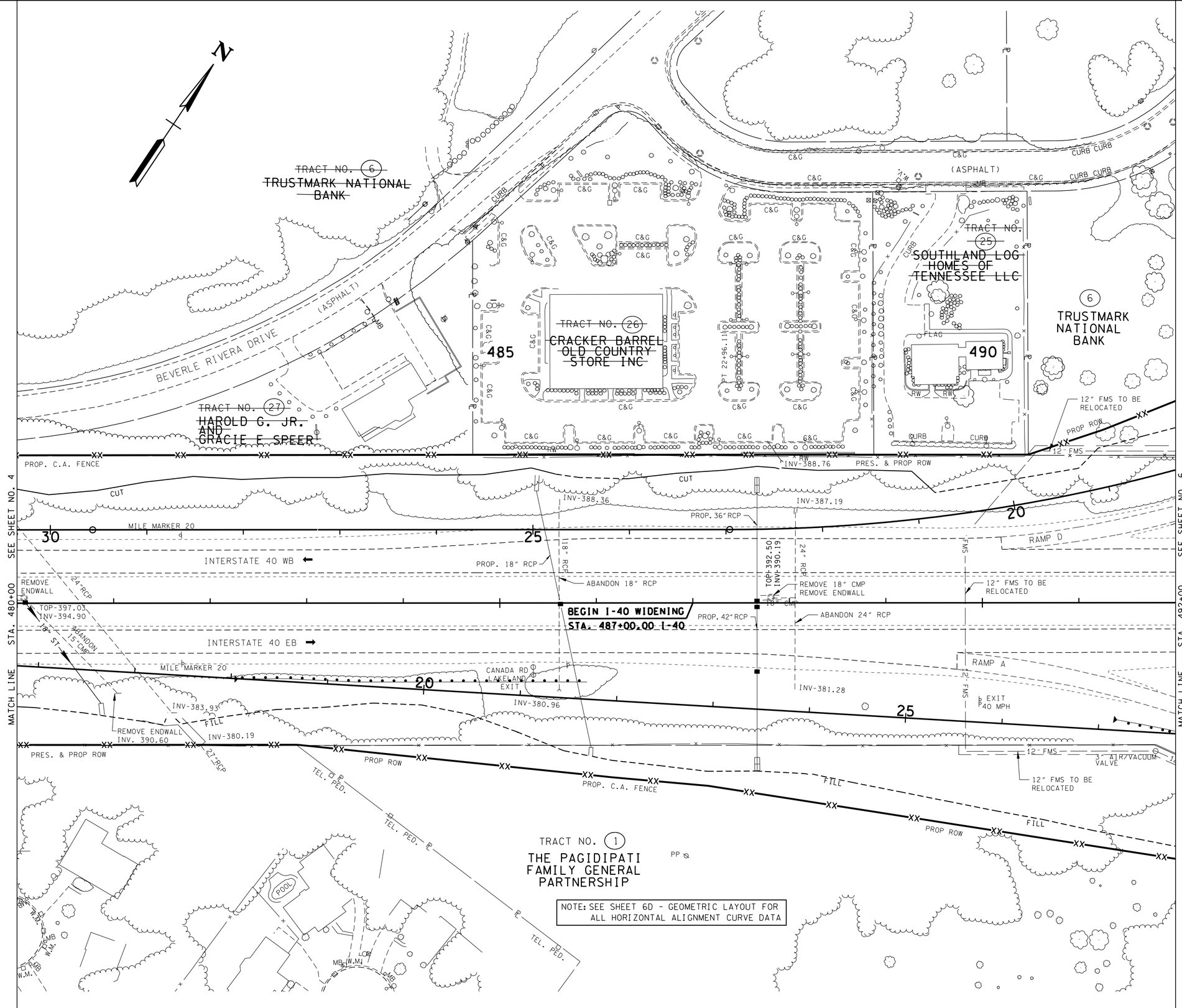
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	5
R.O.W.	2012	IM-40-I(316)	5
CONST.	2014	NH-I-40-1(283)20	5

SHELBY CO. I-40

REV. 11/30/2012 LINED THRU TRACT 6 WEST OF BEVERLE RIVERA.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 6.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



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CHARLES ROBERT COCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 18456
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 480+00 TO STA. 492+00

SCALE: 1"=50'

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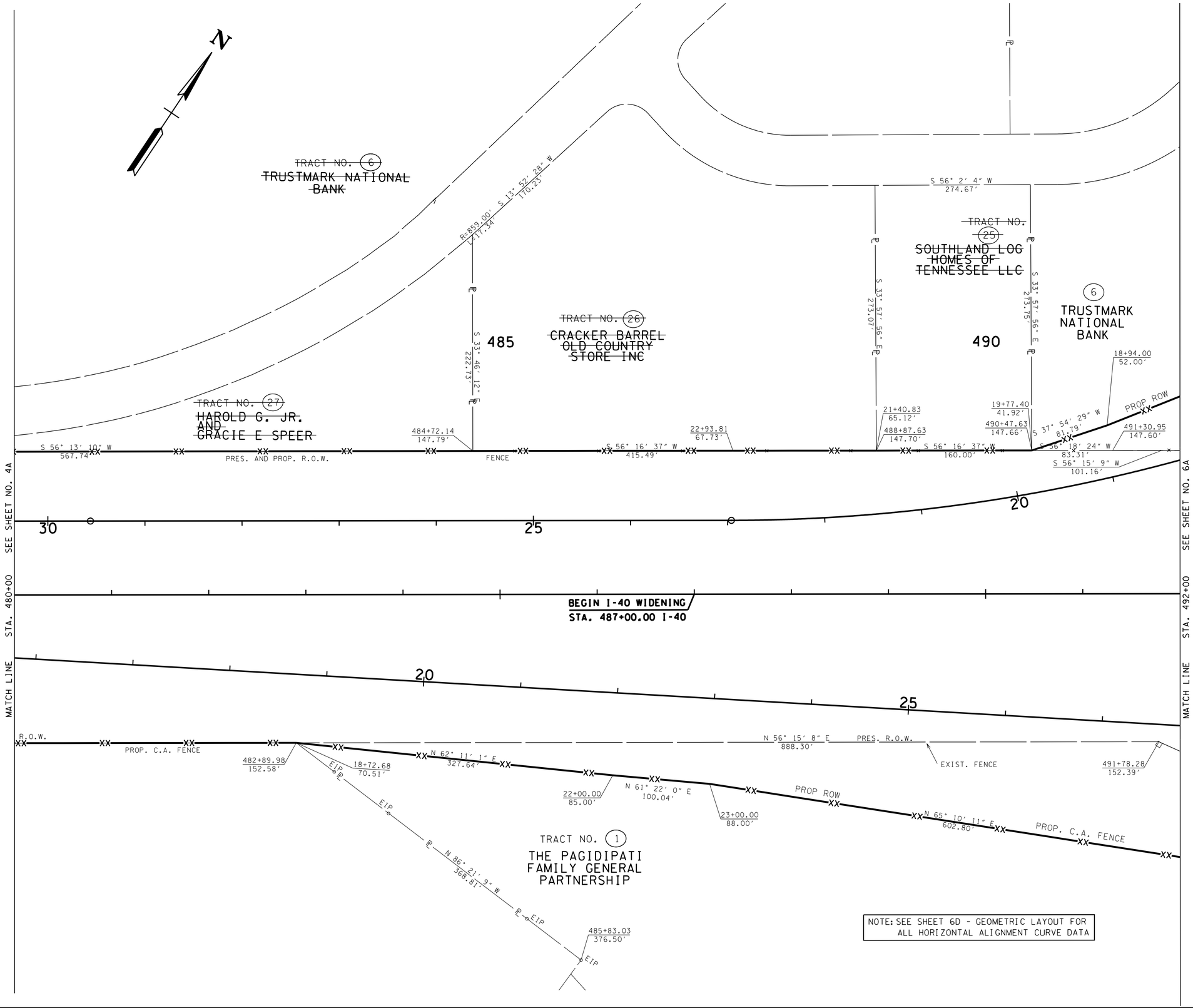
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	5A
R.O.W.	2012	IM-40-I(316)	5A
CONST.	2014	NH-I-40-1(283)20	5A

SHELBY CO. I-40

REV. 11/30/2012 LINED THRU TRACT 6 WEST OF BEVERLE RIVERA. REVISED STA. & OFFSETS AND CORRECTED TEXT CONFLICTS ON TRACTS 6 & 25.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 6. ADDED STA./OFFSET TO TO TRACT 25.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 480+00 TO STA. 492+00

SCALE: 1"=50'

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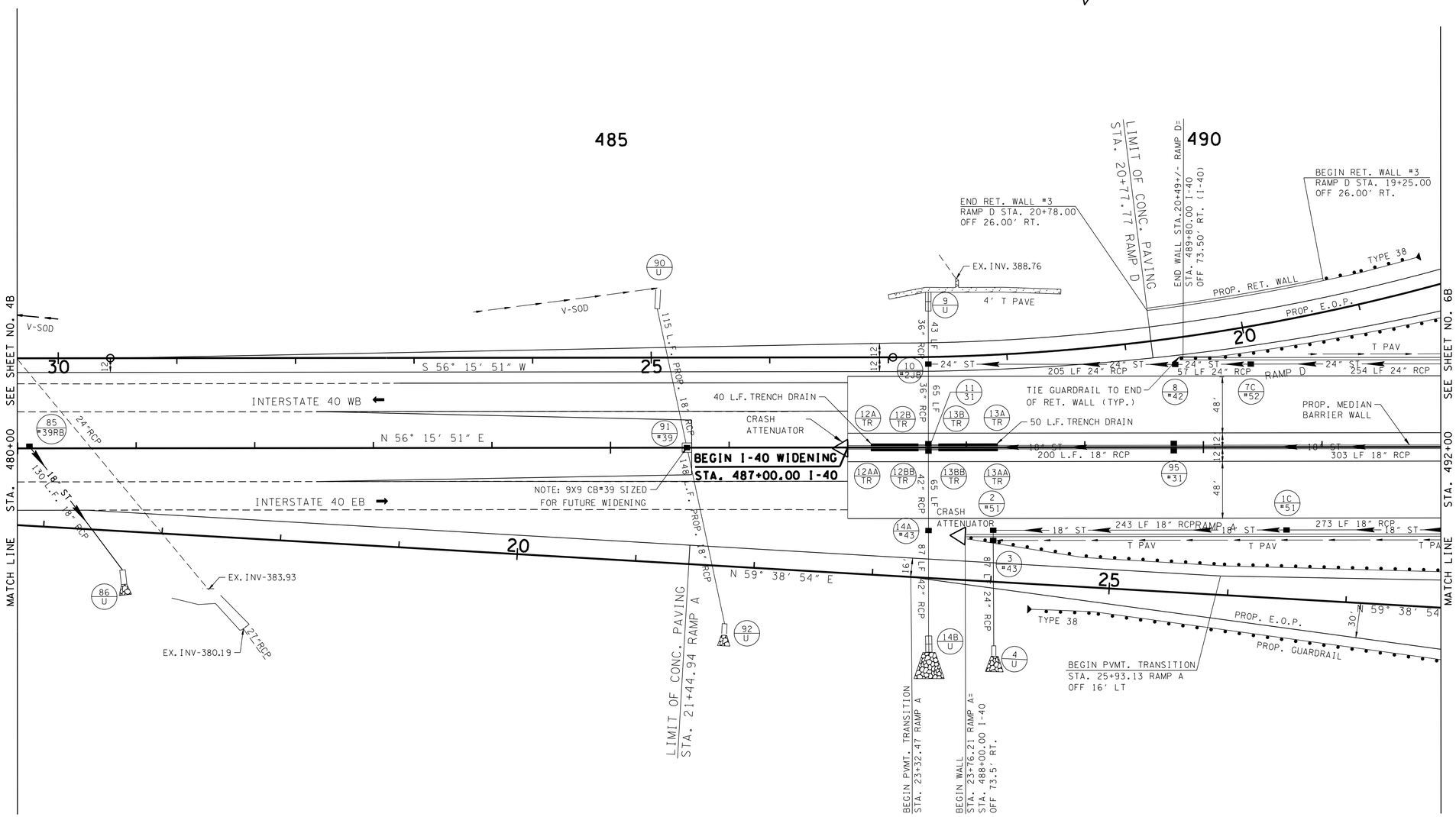
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	5B
R.O.W.	2012	IM-40-I(316)	5B
CONST.	2014	NH-I-40-1(283)20	5B

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAIN. NODES 4B & 4C. REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES

NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.480+00 TO STA.492+00

SCALE: 1"=50'

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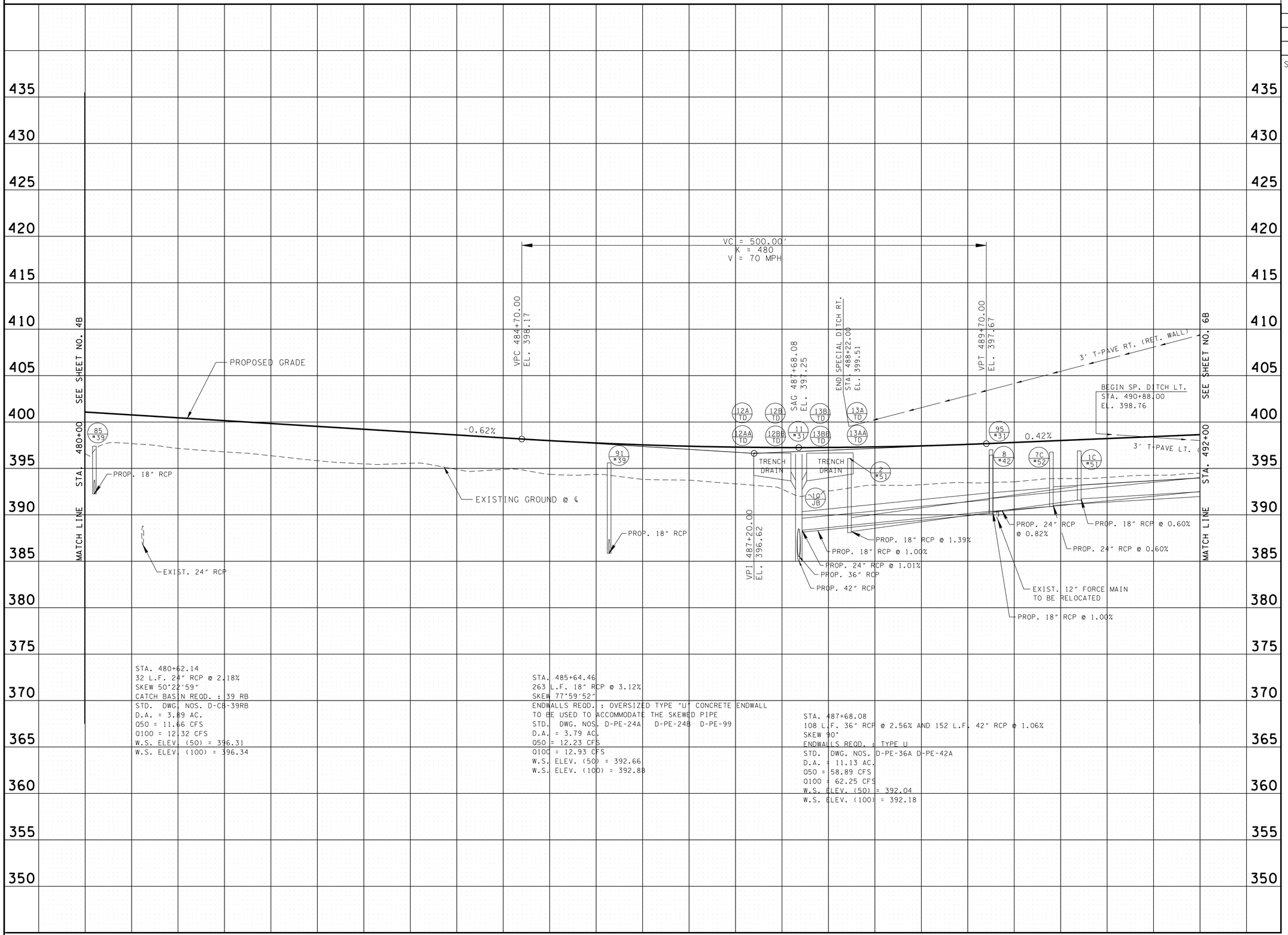
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	24
CONST.	2014	NH-I-40-1(283)20	5C

SHELBY CO. I-40



UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
I-40

STA.480+00 TO STA.492+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-I(293)20	6
R.O.W.	2012	IM-40-I(316)	6
CONST.	2014	NH-I-40-I(283)20	6

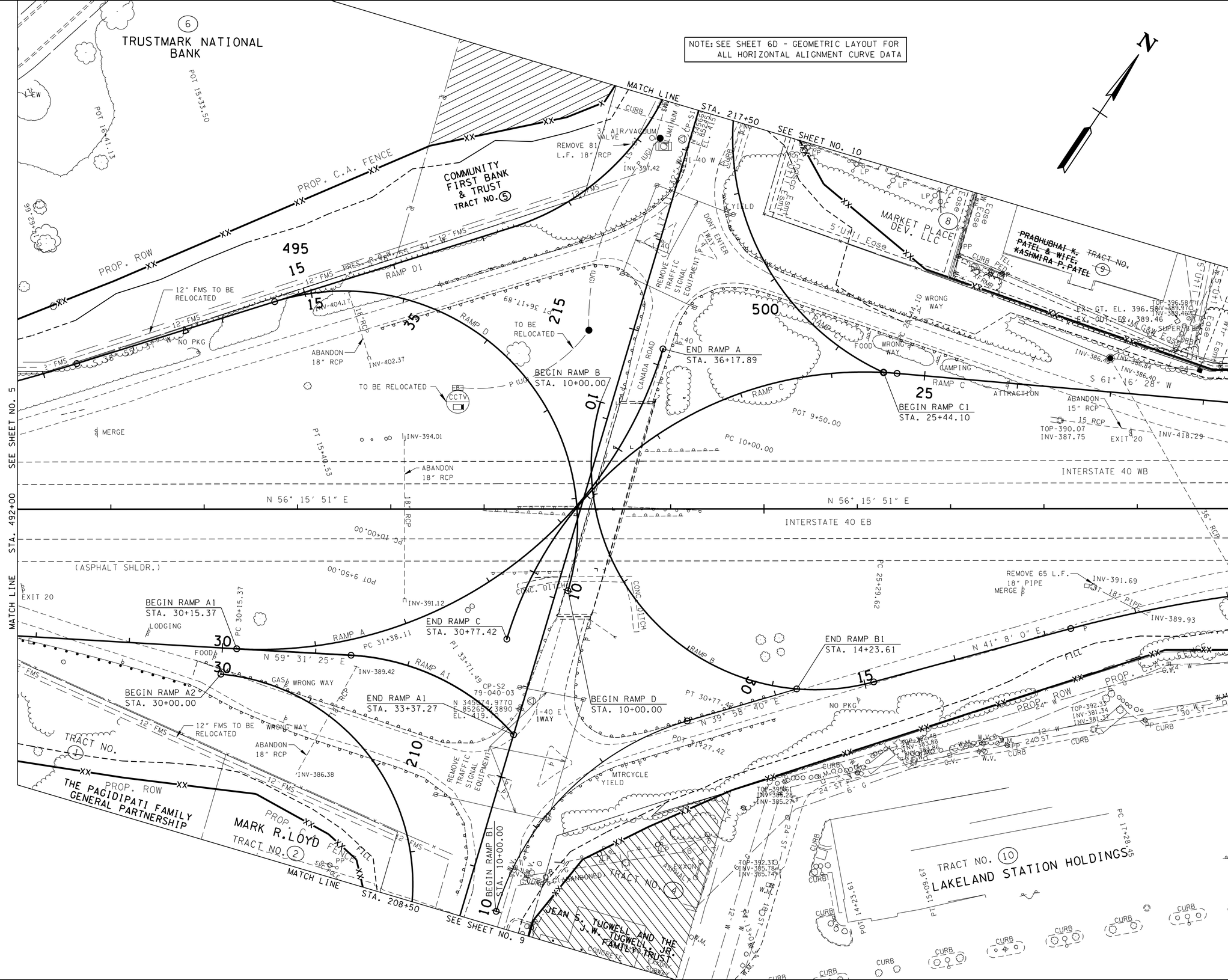
SHELBY CO. I-40

REV. 11/30/2012 REVISED ALIGNMENT & STATION EQUATION FOR RAMP C1. ADDED NEW SLOPE LIMITS ON TRACT 8. MODIFIED R.O.W. AND C.A. FENCE ON TRACT 8.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACTS 4 & 6. ADDED LOSS OF ACCESS HATCHING TO TRACT 4.

REV. 05/17/2013 REVISED OWNER NAME ON TRACT 5.

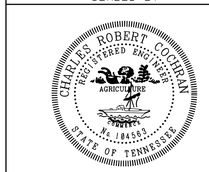
REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 492+00 TO STA.505+00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	6A
R.O.W.	2012	IM-40-I(316)	6A
CONST.	2014	NH-I-40-1(283)20	6A

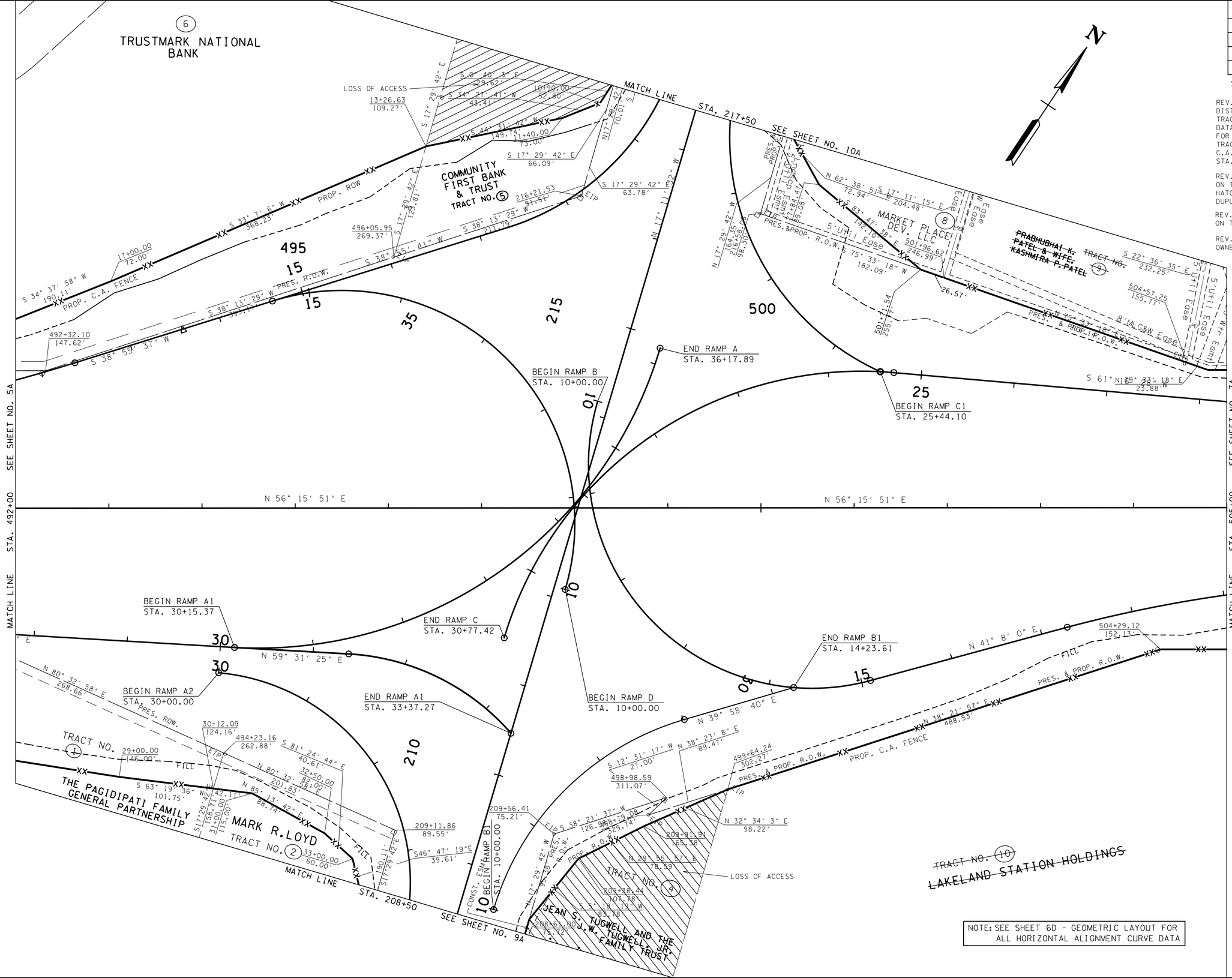
SHELBY CO. I-40

REV. 11/30/2012 CORRECTED EXIST. BEARINGS, DISTANCES, STATIONS AND OFFSETS ON TRACTS 1, 2, 4, 5, AND 6. REVISED LINEWORK DATA, AND STA. EQUATION ON ALIGNMENT FOR RAMP C1. REMOVED "LINE THRU" FROM TRACT 8 OWNER INFO. ADDED NEW R.OW., C.A. & FENCE, BEARINGS, DISTANCES AND STA./OFFSETS TO TRACT 8.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACTS 4 & 6. ADDED LOSS OF ACCESS HATCHING TO TRACT 4. REMOVED DUPLICATE LABELS FROM TRACT 8.

REV. 05/17/2013 REVISED OWNER NAME ON TRACT 5.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

UNOFFICIAL SET

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CHARLES ROBERT COCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104583
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.492+00 TO STA.505+00

SCALE: 1"=50'

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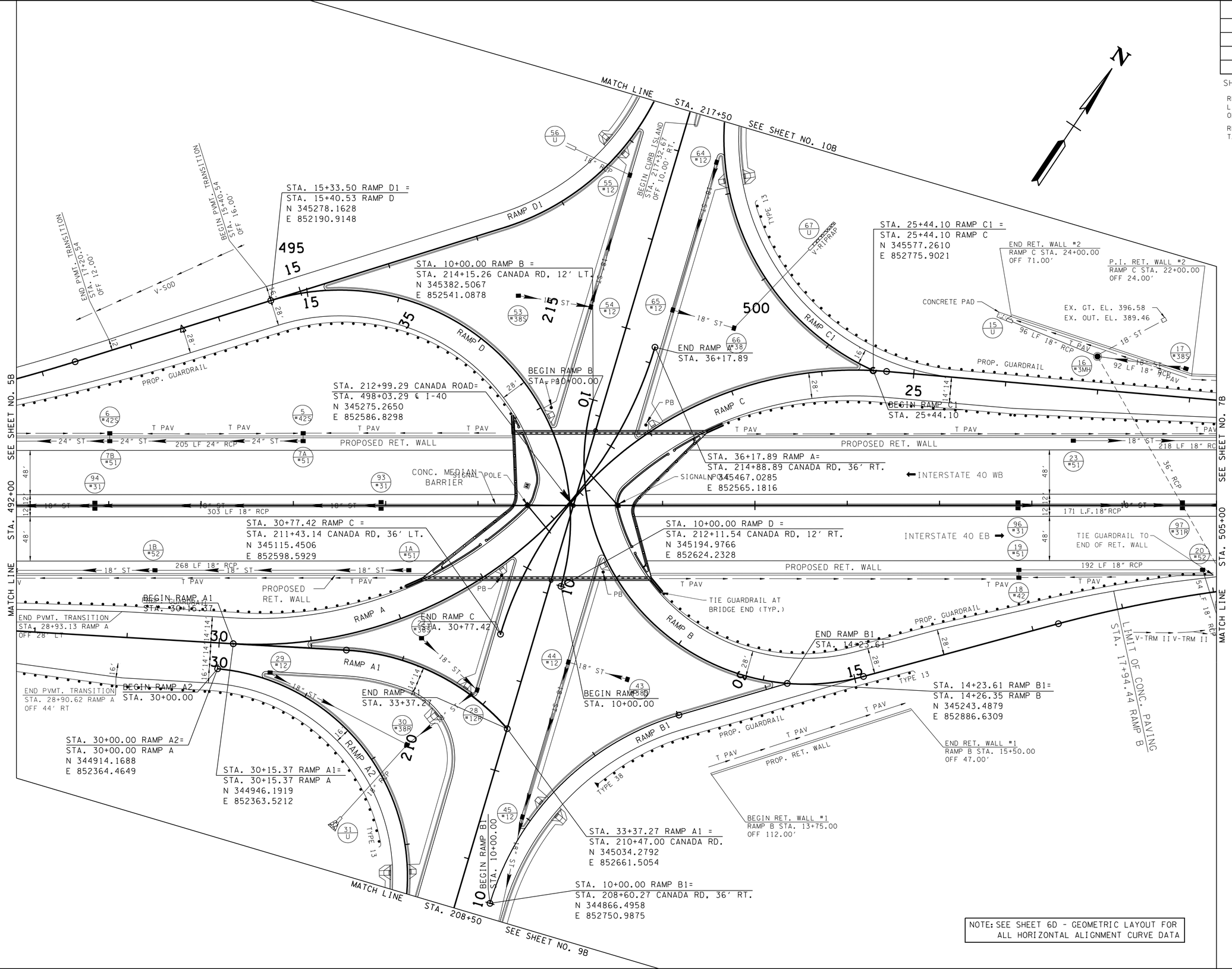
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	6B
R.O.W.	2012	IM-40-I(316)	6B
CONST.	2014	NH-I-40-1(283)20	6B

SHELBY CO. I-40

REV. 11/30/2012 CHANGED ALIGNMENT, LINEWORK, GUARDRAIL & DRAINAGE ON RAMP C1.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 492+00 TO STA. 505+00

SCALE: 1"=50'

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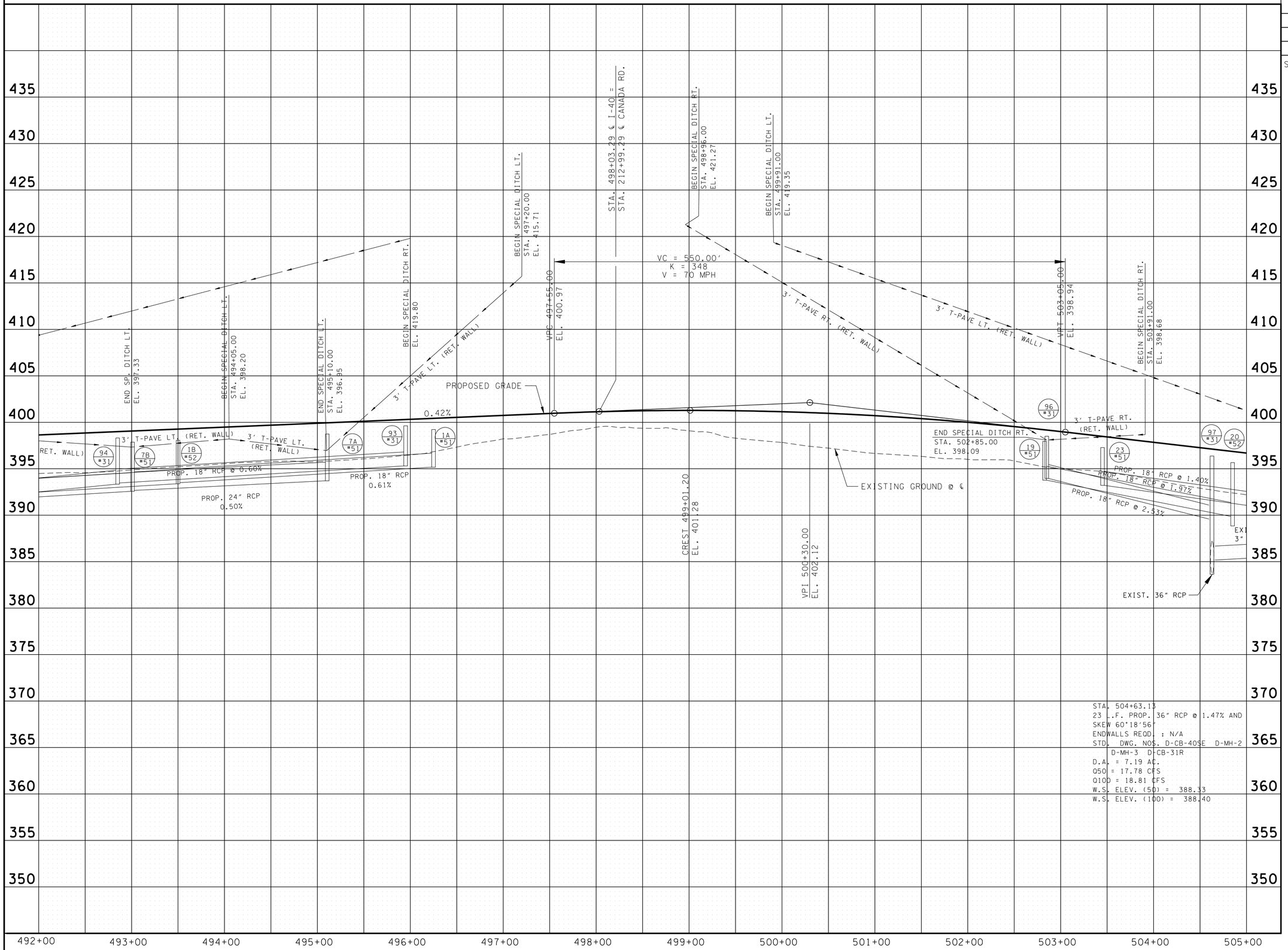
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	25
CONST.	2014	NH-I-40-I(283)20	6C

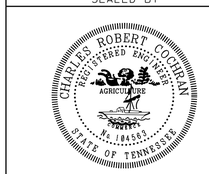
SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
I-40

STA. 492+00 TO STA. 505+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	6C
R.O.W.	2012	IM-40-I(316)	6D
CONST.	2014	NH-I-40-1(283)20	6D

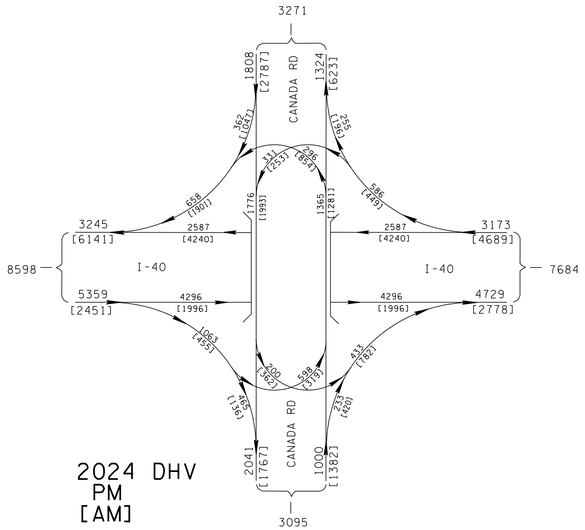
SHELBY CO. I-40

REV. 11/30/2012 REVISED CURVE DATA TO REFLECT NEW ALIGNMENT FOR RAMP C1, BEVERLE RIVERA EXT. AND BEVERLE BAY DRIVE. ADDED CURVE DATA FOR BEVERLE RIVERA DRIVE.

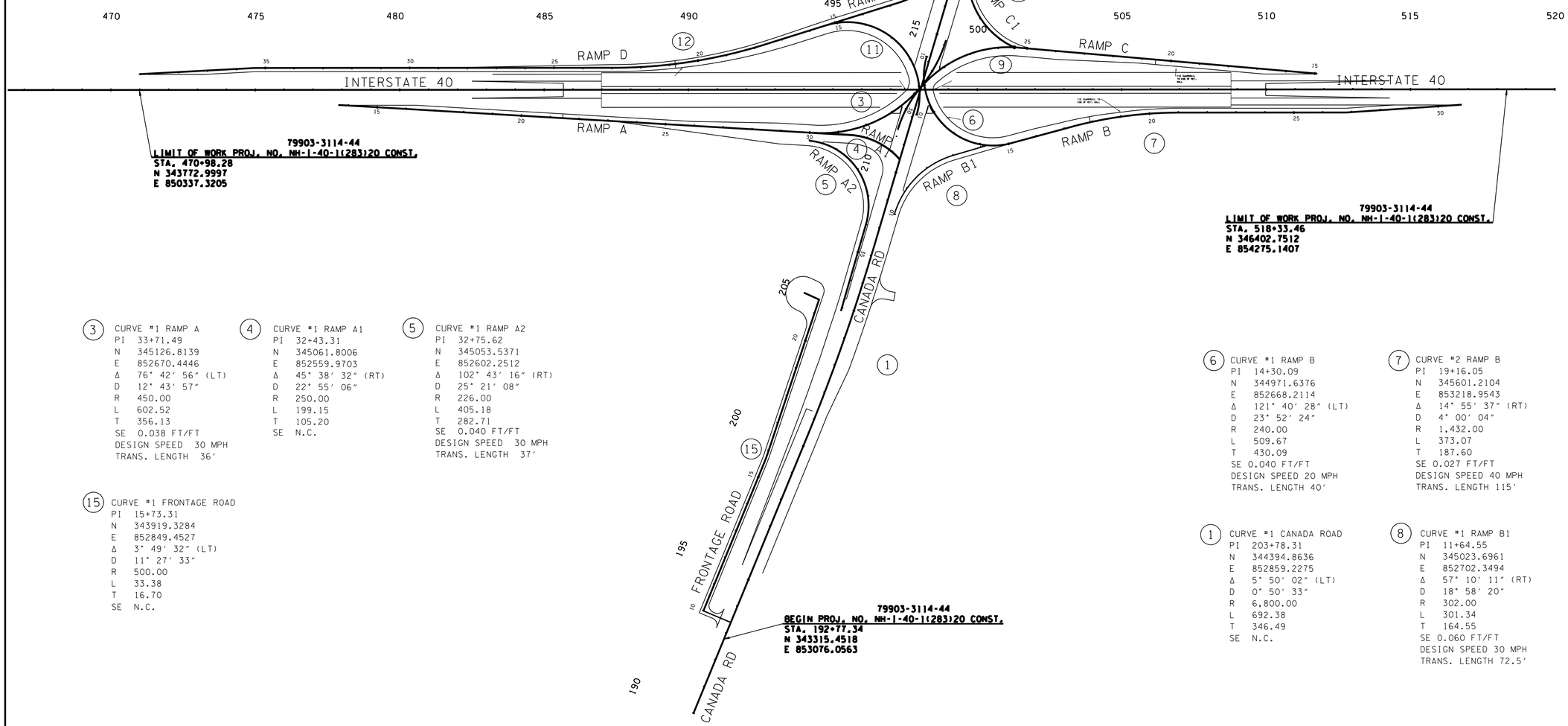
REV. 12/31/2012 REVISED PI STA. ON CURVE DATA BLOCKS FOR CURVES 19 & 19A.

REV. 05/17/2013 REMOVED ALIGNMENT AND CURVE DATA FOR BEVERLE RIVERA DRIVE AND BEVERLE BAY ROAD. ADDED CONNECTOR ROAD ALIGNMENT.

REV. 11/29/2013 REVISED ALIGNMENT FOR THE FRONTAGE ROAD. REVISED ALIGNMENT GEOMETRIC DATA FOR THE FRONTAGE ROAD.



79903-3114-44
END PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 228+50.00
N 346745.0971
E 852094.6988



79903-3114-44
LIMIT OF WORK PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 470+98.28
N 343772.9997
E 850337.3205

79903-3114-44
LIMIT OF WORK PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 518+33.46
N 346402.7512
E 854275.1407

79903-3114-44
BEGIN PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 192+77.34
N 343315.4518
E 853076.0563

(11) CURVE #1 RAMP D
PI 14+69.01
N 345643.0306
E 852485.6041
Δ 123° 52′ 53″ (LT)
D 22° 55′ 06″
R 250.00
L 540.53
T 469.01
SE 0.040 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 88′

(12) CURVE #2 RAMP D
PI 20+31.44
N 344896.2677
E 851882.4677
Δ 17° 20′ 14″ (RT)
D 3° 15′ 00″
R 1,762.95
L 533.45
T 268.78
SE 0.034 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 150′

(13) CURVE RAMP D1
PI 11+46.06
N 345598.0372
E 852449.2798
Δ 56° 07′ 13″ (RT)
D 20° 54′ 39″
R 274.00
L 268.38
T 146.06
SE 0.060 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 72.5′

(9) CURVE #1 RAMP C
PI 28+56.24
N 345427.4766
E 852502.0515
Δ 78° 28′ 00″ (LT)
D 14° 19′ 26″
R 400.00
L 547.80
T 326.62
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 105

(10) CURVE #1 RAMP C1
PI 27+45.71
N 345544.8354
E 852576.9164
Δ 72° 17′ 39″ (RT)
D 20° 45′ 34″
R 276.00
L 348.25
T 201.61
SE 0.060 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 145

(14) CURVE #1 BEVERLE RIVERA DRIVE
PI 13+59.01
N 346425.8491
E 852599.8283
Δ 4° 53′ 51″ (RT)
D 5° 43′ 05″
R 1,002.00
L 85.65
T 42.85
SE = NC

(2) CURVE #2 CANADA ROAD
PI 224+74.51
N 346397.9707
E 852239.4627
Δ 5° 26′ 12″ (LT)
D 0° 40′ 00″
R 8,594.37
L 815.50
T 408.05
SE N.C.

(3) CURVE #1 RAMP A
PI 33+71.49
N 345126.8139
E 852670.4446
Δ 76° 42′ 56″ (LT)
D 12° 43′ 57″
R 450.00
L 602.52
T 356.13
SE 0.038 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 36′

(4) CURVE #1 RAMP A1
PI 32+43.31
N 345061.8006
E 852559.9703
Δ 45° 38′ 32″ (RT)
D 22° 55′ 06″
R 250.00
L 199.15
T 105.20
SE N.C.

(5) CURVE #1 RAMP A2
PI 32+75.62
N 345053.5371
E 852602.2512
Δ 102° 43′ 16″ (RT)
D 25° 21′ 08″
R 226.00
L 405.18
T 282.71
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 37′

(15) CURVE #1 FRONTAGE ROAD
PI 15+73.31
N 343919.3284
E 852849.4527
Δ 3° 49′ 32″ (LT)
D 11° 27′ 33″
R 500.00
L 33.38
T 16.70
SE N.C.

(6) CURVE #1 RAMP B
PI 14+30.09
N 344971.6376
E 852668.2114
Δ 121° 40′ 28″ (LT)
D 23° 52′ 24″
R 240.00
L 509.67
T 430.09
SE 0.040 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 40′

(7) CURVE #2 RAMP B
PI 19+16.05
N 345601.2104
E 853218.9543
Δ 14° 55′ 37″ (RT)
D 4° 00′ 04″
R 1,432.00
L 373.07
T 187.60
SE 0.027 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 115′

(1) CURVE #1 CANADA ROAD
PI 203+78.31
N 344394.8636
E 852859.2275
Δ 5° 50′ 02″ (LT)
D 0° 50′ 33″
R 6,800.00
L 692.38
T 346.49
SE N.C.

(8) CURVE #1 RAMP B1
PI 11+64.55
N 345023.6961
E 852702.3494
Δ 57° 10′ 11″ (RT)
D 18° 58′ 20″
R 302.00
L 301.34
T 164.55
SE 0.060 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 72.5′

UNOFFICIAL SET

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SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT

SCALE: 1"=200′

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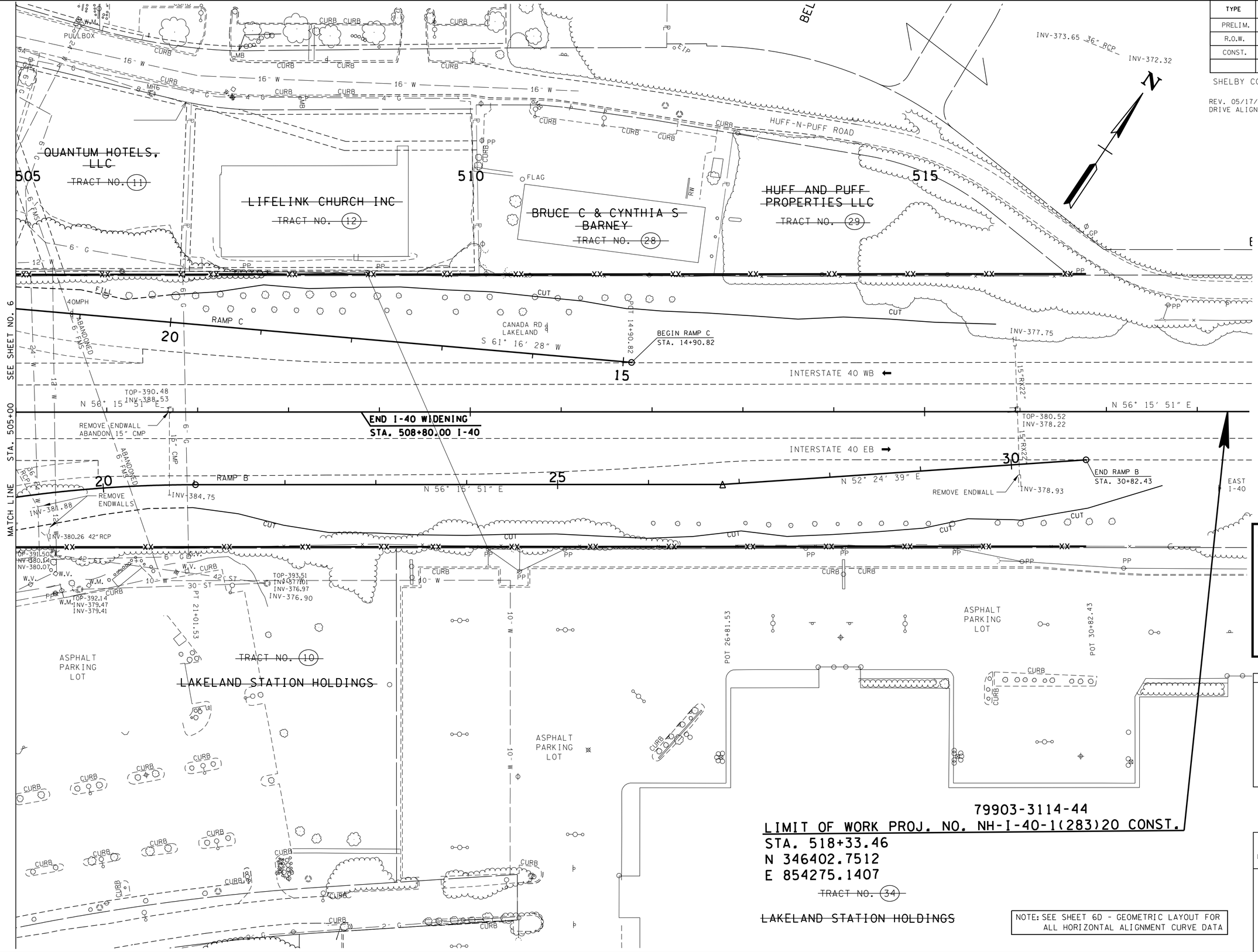
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-I(293)20	7
R.O.W.	2012	IM-40-I(316)	7
CONST.	2014	NH-I-40-I(283)20	7

SHELBY CO. I-40

REV. 05/17/2013 REMOVED BEVERLE BAY DRIVE ALIGNMENT.



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 505+00 TO E.O.P.

SCALE: 1"=50'

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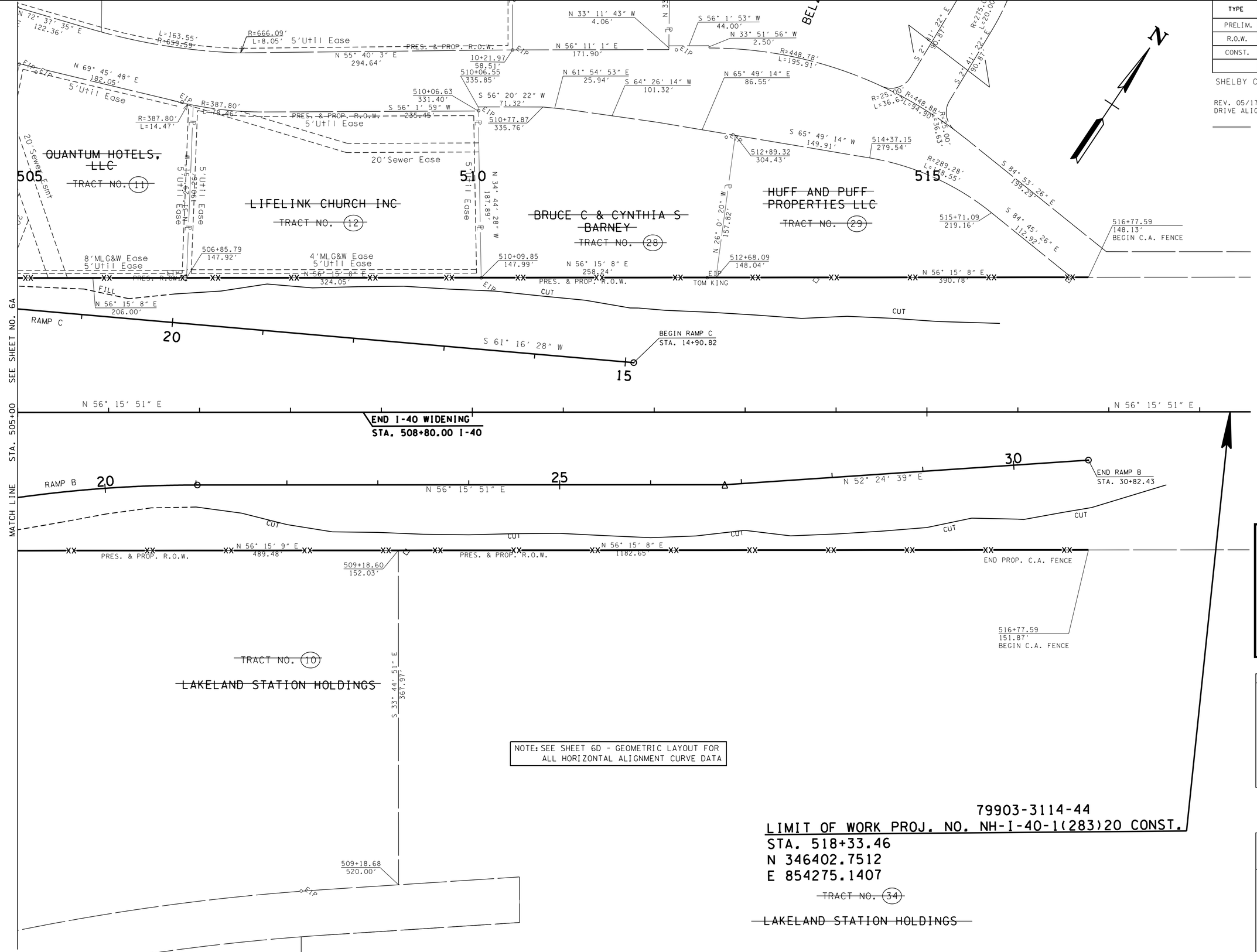
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	7A
R.O.W.	2012	IM-40-I(316)	7A
CONST.	2014	NH-I-40-1(283)20	7A

SHELBY CO. I-40

REV. 05/17/2013 REMOVED BEVERLE BAY DRIVE ALIGNMENT.



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

79903-3114-44

LIMIT OF WORK PROJ. NO. NH-I-40-1(283)20 CONST.

STA. 518+33.46

N 346402.7512

E 854275.1407

TRACT NO. 34

LAKELAND STATION HOLDINGS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.505+00 TO STA. E.O.P.

SCALE: 1"=50'

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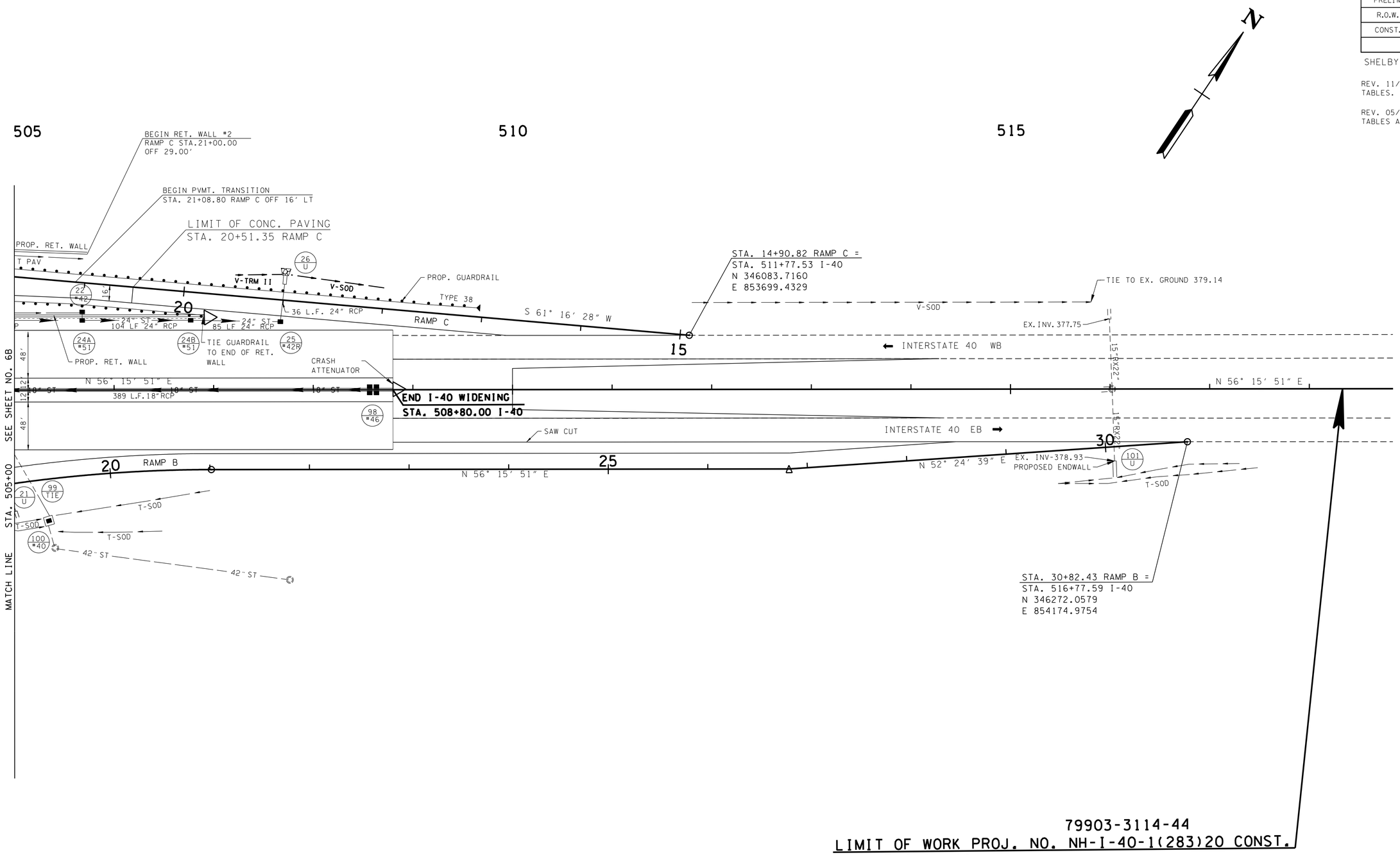
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	7B
R.O.W.	2012	IM-40-I(316)	7B
CONST.	2014	NH-I-40-1(283)20	7B

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

79903-3114-44

LIMIT OF WORK PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 518+33.46
N 346402.7512
E 854275.1407

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.505+00 TO E.O.P.

SCALE: 1"=50'

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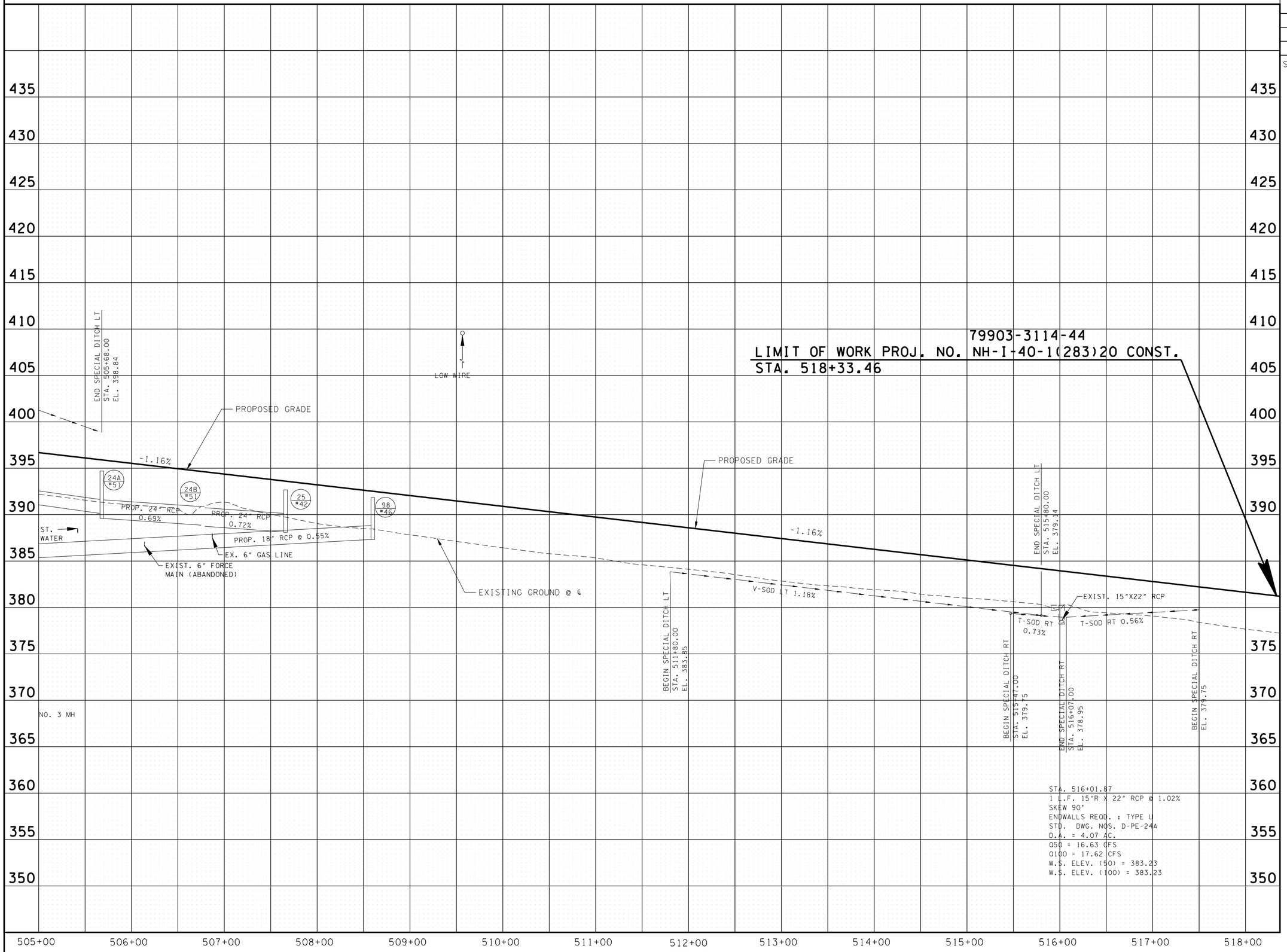
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	26
CONST.	2014	NH-I-40-1(283)20	7C

SHELBY CO. I-40



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
I-40

STA. 505+00 TO E.O.P.

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

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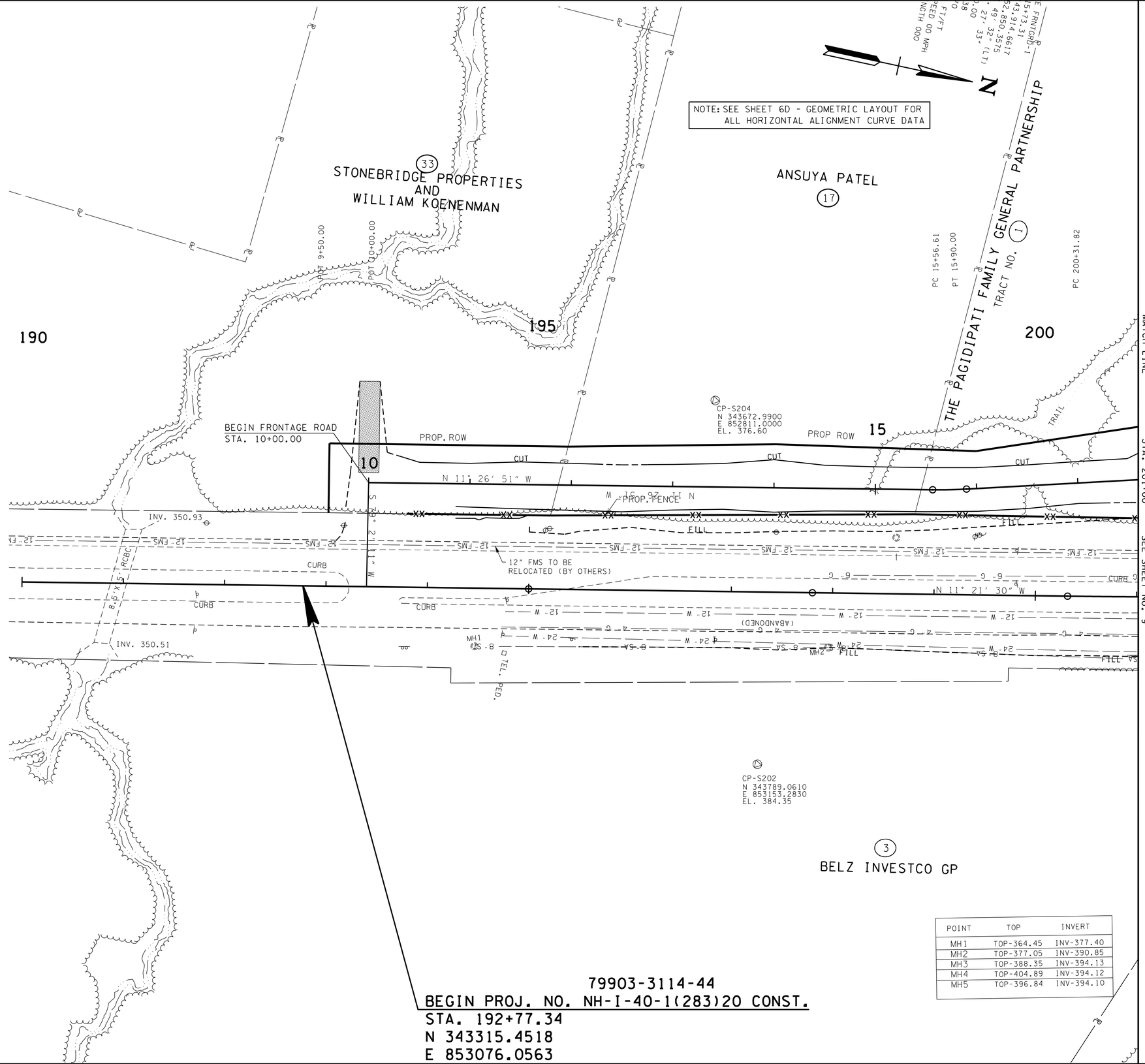
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-I(293)20	8
R.O.W.	2012	IM-40-I(316)	8
CONST.	2014	NH-I-40-I(283)20	8

SHELBY CO. I-40

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 33.

REV. 05/17/2013 CHANGED OWNERS NAME ON TRACT 3.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



POINT	TOP	INVERT
MH1	TOP-364.45	INV-377.40
MH2	TOP-377.05	INV-390.85
MH3	TOP-388.35	INV-394.13
MH4	TOP-404.89	INV-394.12
MH5	TOP-396.84	INV-394.10

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

B.O.P. TO STA.208+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	8A
R.O.W.	2012	IM-40-I(316)	8A
CONST.	2014	NH-I-40-1(283)20	8A

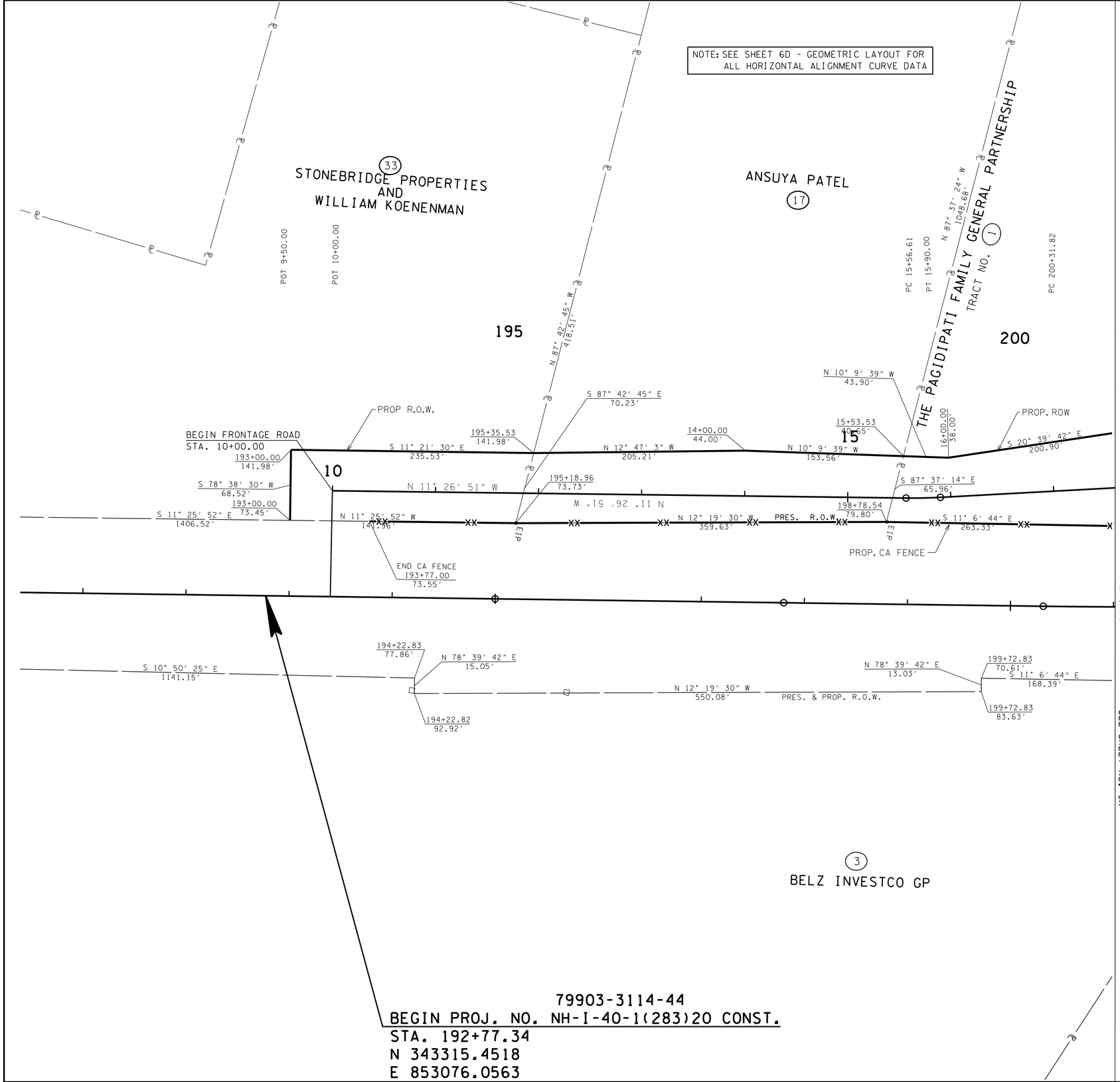
SHELBY CO. I-40

REV. 10/31/2012 CORRECTED BEARINGS AND DISTANCES ON TRACTS 1, 17 AND 33.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 33.

REV. 05/17/2013 CHANGED OWNERS NAME ON TRACT 3.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



UNOFFICIAL SET

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SEALED BY

CHARLES ROBERT COHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104583
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

B.O.P. TO STA.201+00

SCALE: 1"=50'

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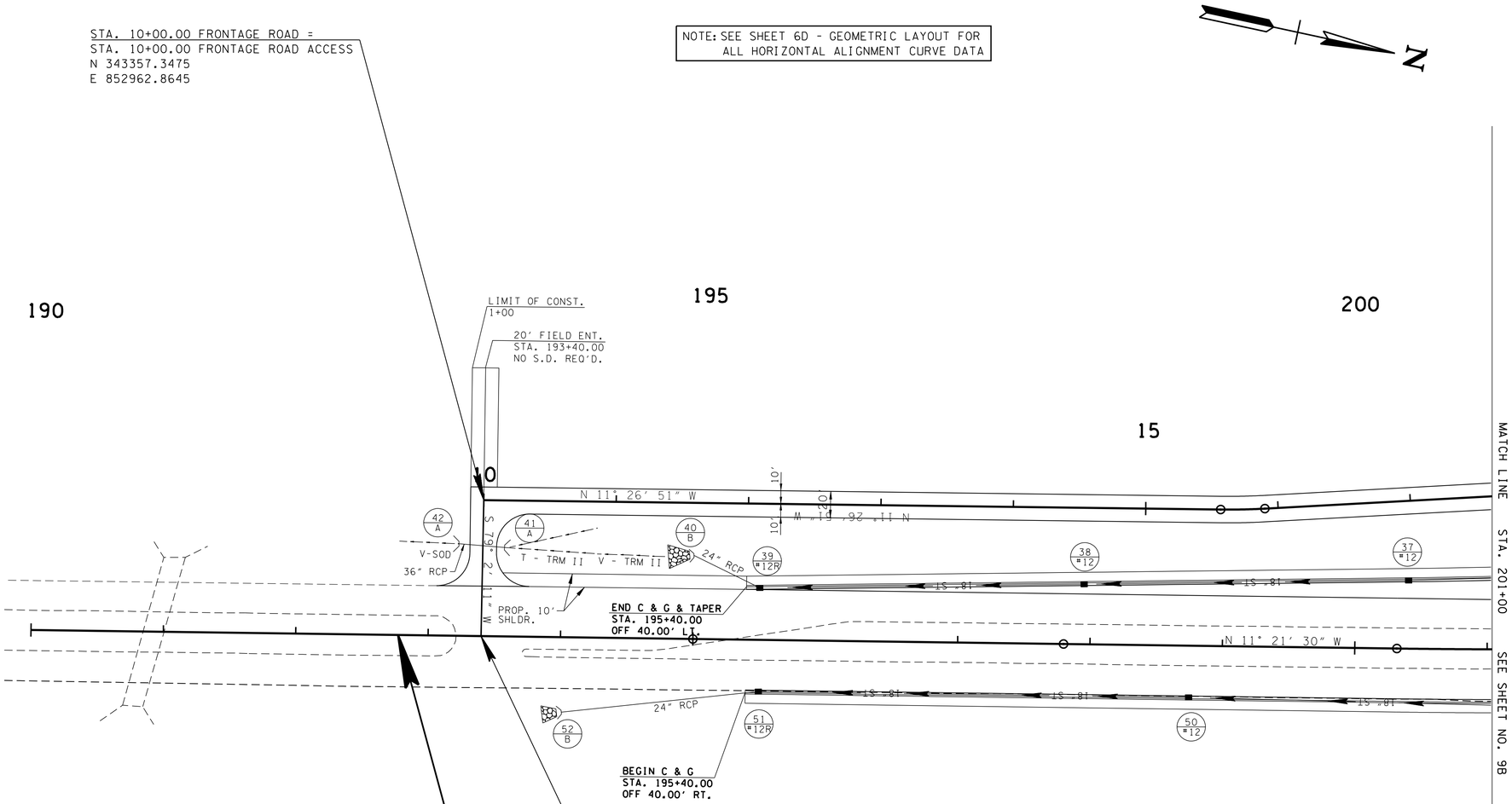
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	8B
R.O.W.	2012	IM-40-I(316)	8B
CONST.	2014	NH-I-40-1(283)20	8B

SHELBY CO. I-40

REV. 10/31/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES. ADDED INLET AT STA. 200+40 LT. CANADA ROAD.

NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

B.O.P. TO STA. 201+00

SCALE: 1"=50'

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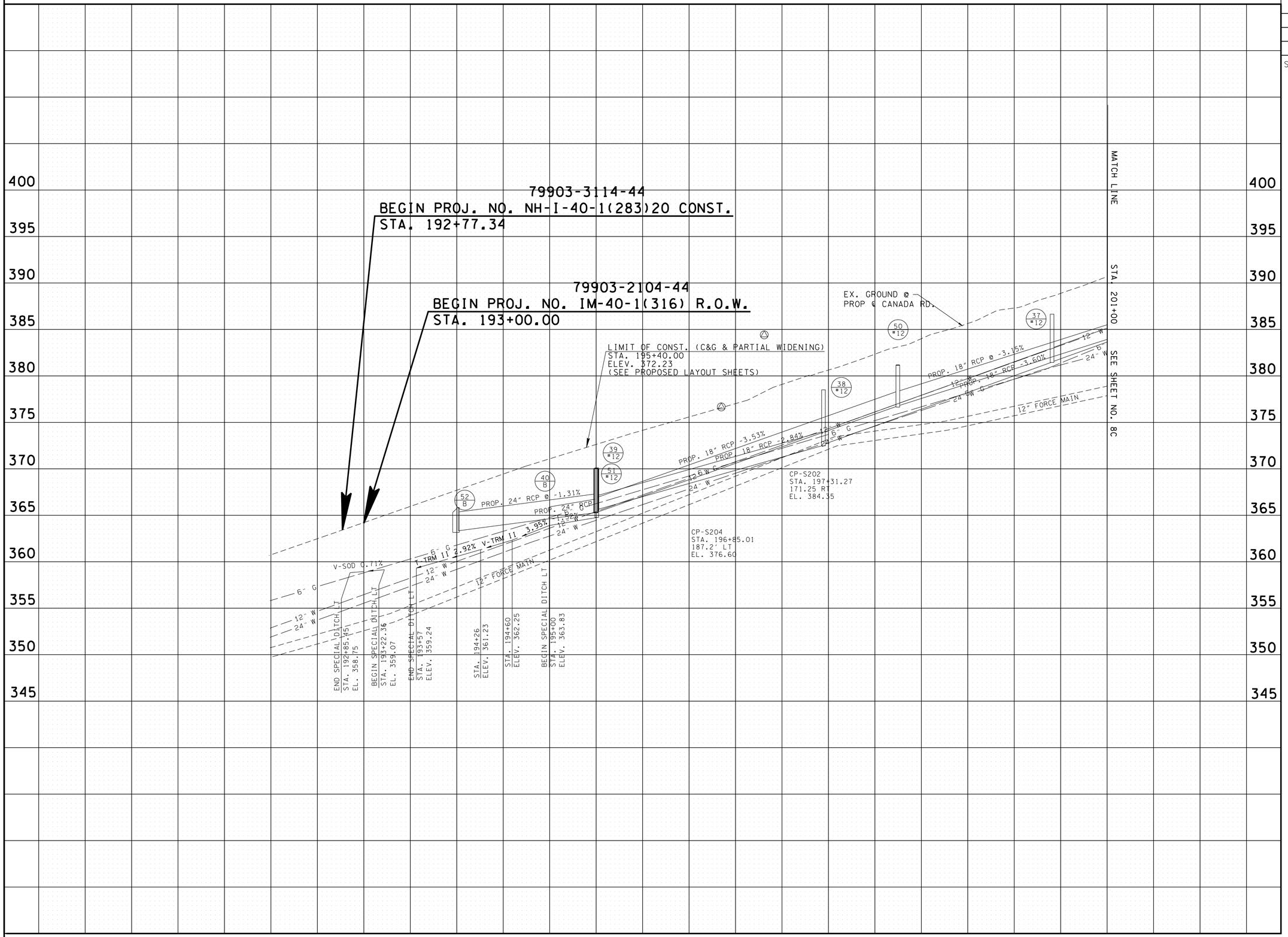
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	8C
R.O.W.	2012	IM-40-I(316)	8C
CONST.	2014	NH-I-40-1(283)20	8C

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES. ADDED INLET AT STA. 200+40 LT. CANADA ROAD.



UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
CANADA ROAD

B.O.P. STA. TO 201+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	9
R.O.W.	2012	IM-40-I(316)	9
CONST.	2014	NH-I-40-1(283)20	9

SHELBY CO. I-40

REV. 11/30/2012 ADDED LABELS TO PRESENT ROW. ADDED POLES AND SIGN TO TRACT 3.

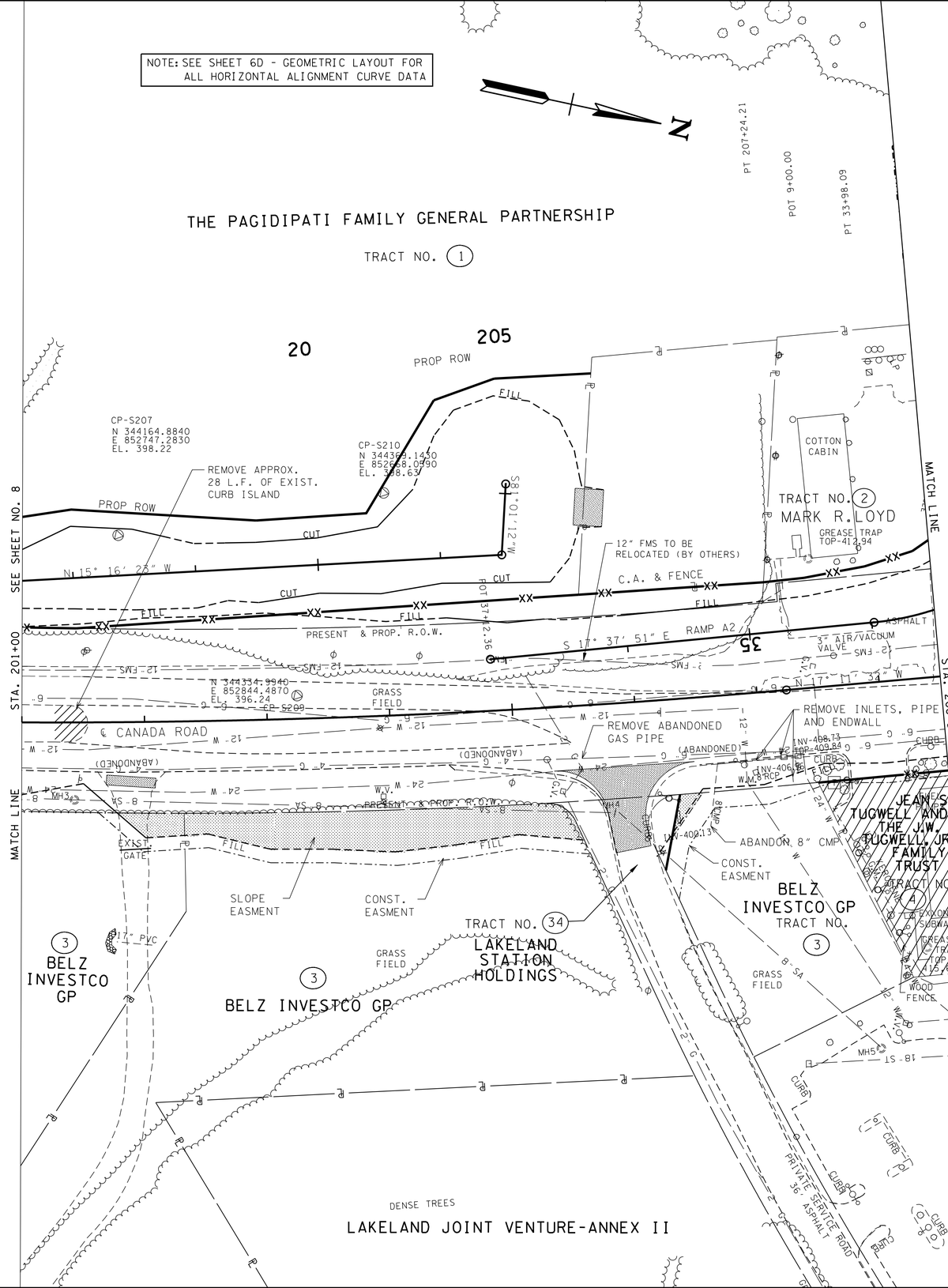
REV. 12/14/2012 REVISED OWNER'S NAME ON TRACT 4. ADDED LOSS OF ACCESS HATCHING TO TRACT 4.

REV. 05/17/2013 REVISED OWNERS NAME ON TRACT 3. ADDED TRACT 34. ADDED EXISTING FIELD ENTRANCE STA. 201+85 RT. CANADA ROAD.

REV. 07/17/2013 REVISED ACQUISITIONS ON TRACT 3. ADDED REMOVAL NOTE ON EXIST. SIGN.

REV. 11/29/2013 REVISED EXISTING PROPERTY LINES FOR TRACT 1 AND FOR TRACT 2. REVISED FRONTAGE ROAD ALIGNMENT. REVISED THE PROPOSED ROW ACQUISITION LINEWORK FOR TRACT 1 AND FOR TRACT 2. REVISED SLOPE LIMITS ON TRACT1 AND ADDED A PRIVATE DRIVE FOR TRACT 2.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 201+00 TO STA.208+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	9A
R.O.W.	2012	IM-40-I(316)	9A
CONST.	2014	NH-I-40-1(283)20	9A

SHELBY CO. I-40

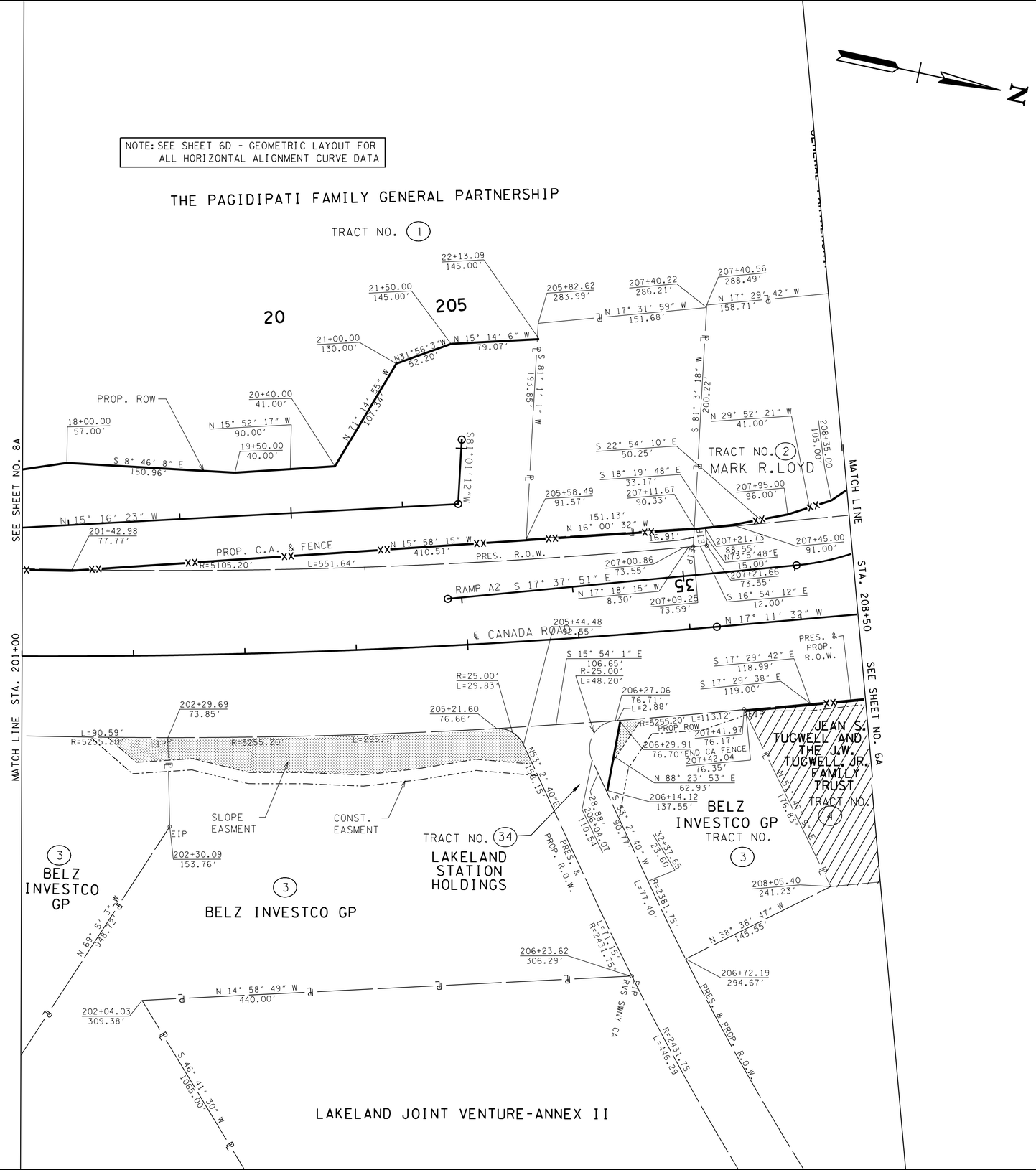
REV. 11/30/2012 CORRECTED BEARINGS, DISTANCES, STATIONS AND OFFSETS ON TRACTS 1, 2, 3 AND 4. EXTENDED C.A. & FENCE ON TRACT 4.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACTS 4. ADDED LOSS OF ACCESS HATCHING TO TRACT 4.

REV. 05/17/2013 REVISED OWNERS NAME ON TRACT 3. ADDED TRACT 34.

REV. 11/29/2013 REVISED EXISTING PROPERTY LINES AND INFORMATION FOR TRACT 1 AND FOR TRACT 2. REVISED FRONTAGE ROAD ALIGNMENT. REVISED THE PROPOSED ROW ACQUISITION LINEWORK FOR TRACT 1 AND FOR TRACT 2. REVISED SLOPE LIMITS ON TRACT1 AND ADDED A PRIVATE DRIVE FOR TRACT 2. REVISED PROPOSED ROW ACQUSITION INFORMATION FOR TRACT 1.

REV. 02/04/2014 REVISED PROPERTY OWNER INFORMATION ON TRACT 1.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 201+00 TO STA.208+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	9B
R.O.W.	2012	IM-40-I(316)	9B
CONST.	2014	NH-I-40-1(283)20	9B

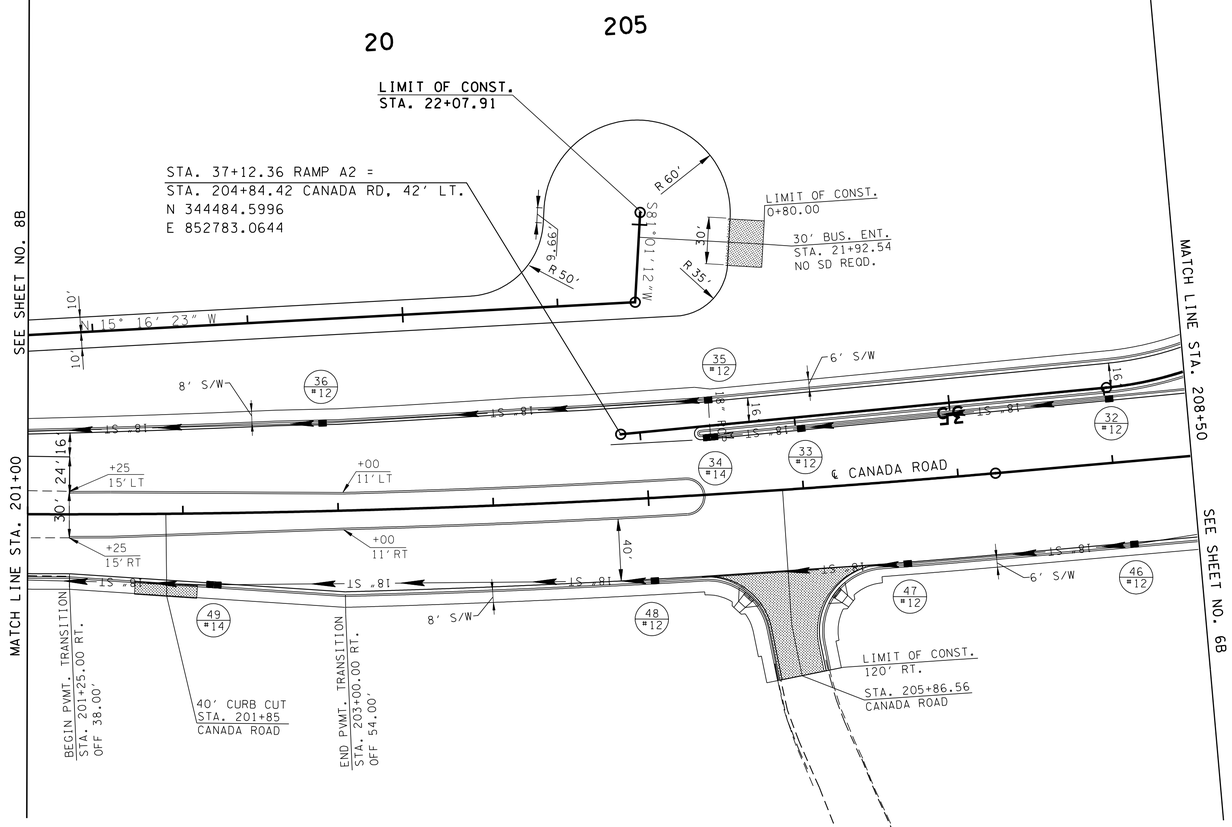
SHELBY CO. I-40

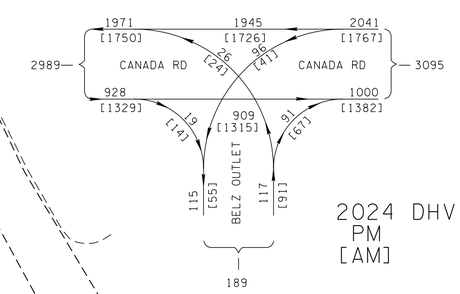
REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRIVEWAY TO MATCH EXIST. AT STA. 205+86.56 RT. CANADA ROAD. ADDED CURB CUT AT STA. 201+85 RT. CANADA ROAD. REVISED DRAINAGE TABLES AND NODES.

REV. 11/29/2013 REVISED ALIGNMENT FOR THE FRONTAGE ROAD. ADDED CUL-D-SAC TO END OF FRONTAGE ROAD. ADDED PRIVATE DRIVE TO NORTH END OF FRONTAGE ROAD CUL-D-SAC.

NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA





2024 DHV
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[AM]

UNOFFICIAL SET

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SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

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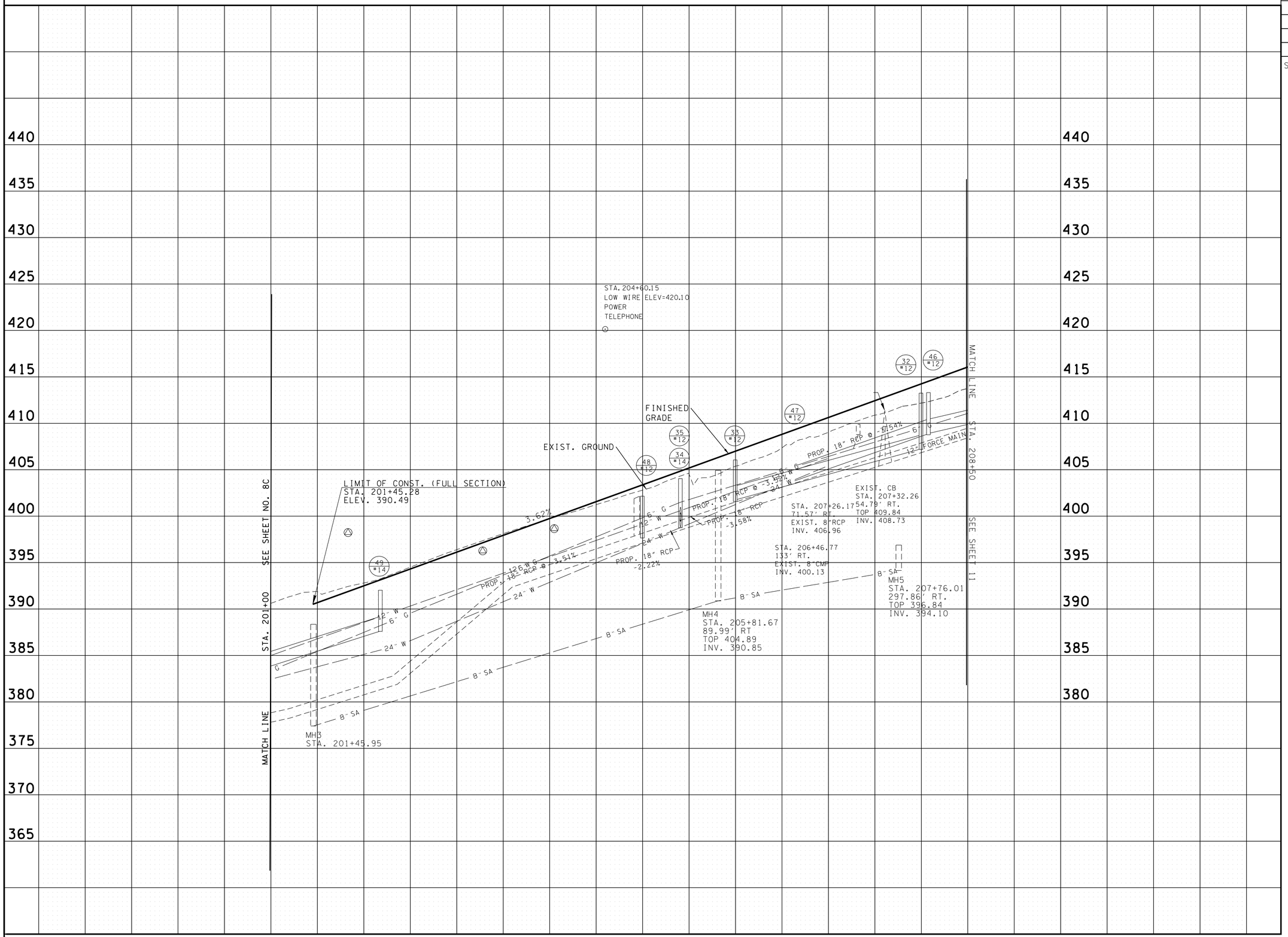
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	9C
R.O.W.	2012	IM-40-I(316)	9C
CONST.	2014	NH-I-40-1(283)20	9C

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

CANADA ROAD

STA. 201+00 TO STA. 208+50

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

2/24/2014 1:45:02 PM
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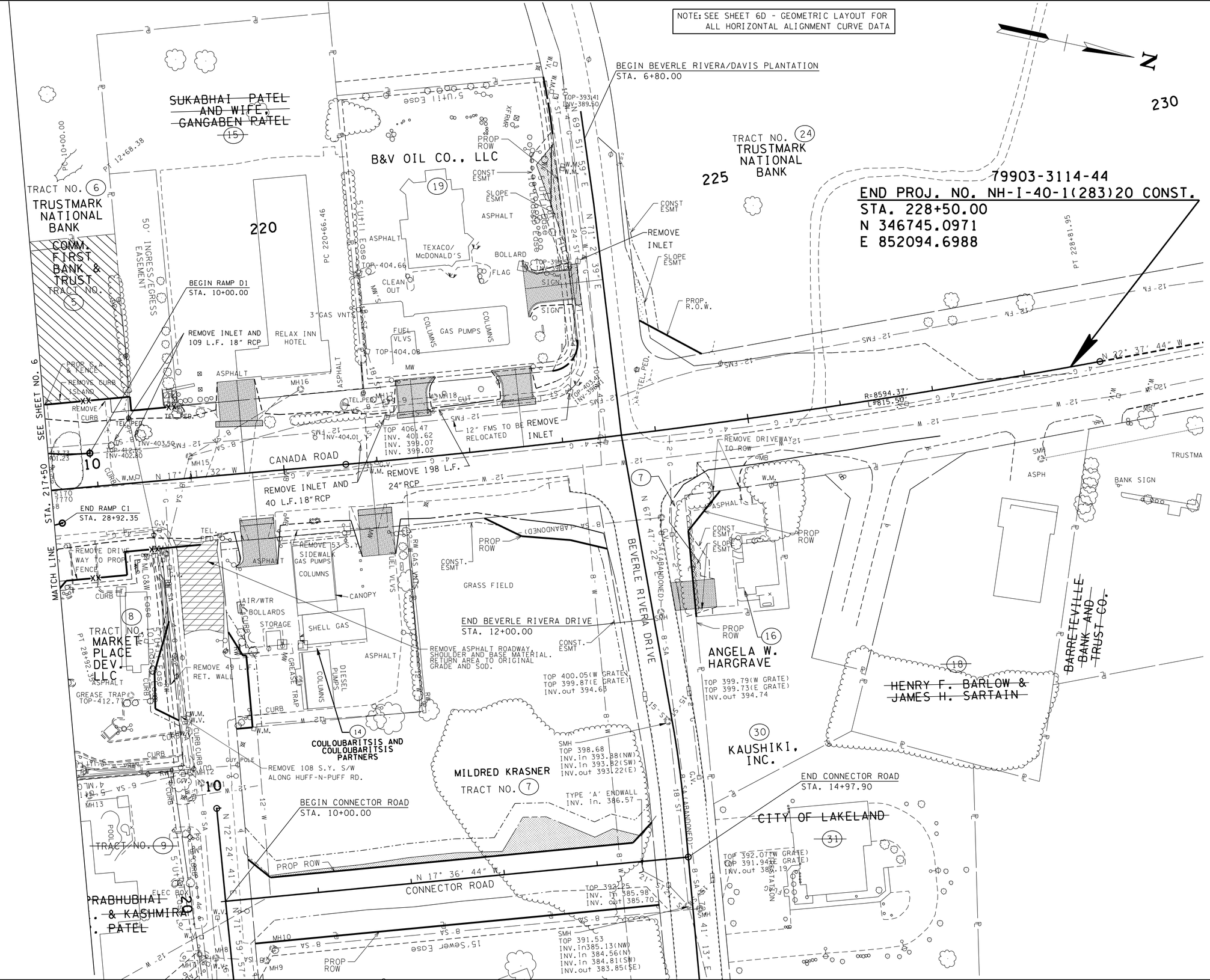
NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA



TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	10
R.O.W.	2012	IM-40-I(316)	10
CONST.	2014	NH-I-40-1(283)20	10

SHELBY CO. I-40

REV. 11/30/2012 TRACT 5 IS NOW SHOWN AS "LOSS OF ACCESS". NOW SHOWING TRACT 8 AS AN ACQUISITION TRACT. REMOVED THE CONSTRUCTION EASEMENT FROM TRACT 15. ADDED STATION EQUATIONS TO THE ENDS OF RAMPS C1 & D. ADDED ADDITIONAL TOPO ON TRACTS 8, 14, 16, 18 & 31. REVISED SLOPE LIMITS AND DRIVEWAYS TO REFLECT THE CHANGE TO THE ALIGNMENT OF RAMP C1 AND TYPICAL SECTION OF RAMP C1 & CANADA ROAD. EXTENDED THE BEVERLE RIVERA ALIGNMENT TO THE EAST. REVISED R.O.W. AND EASEMENT ACQUISITIONS TO REFLECT ALIGNMENT AND TYPICAL SECTIONS CHANGES. ADDED LABELS TO TRACTS 7, 8, 14, 16, 24 AND 30. REVISED C.A. & FENCE ON TRACT 8.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACTS 6, 15, & 30.

REV. 01/30/2013 REVISED TEMPORARY CONSTRUCTION EASEMENT ON TRACT NO. 19. LINED THRU TRACT 15.

REV. 05/17/2013 REVISED OWNERS NAME ON TRACT 5. REVISED EASEMENT AND DRIVEWAY ON TRACT 16. REMOVED PART OF TRACT 7 AND ADDED TO EXIST. ROW OF BEVERLE RIVERA DRIVE. ADDED CONNECTOR ROAD ALIGNMENT, ROW ACQUISITION AND EASEMENTS TO TRACT 7.

REV. 08/18/2013 REVISED OWNERS NAME ON TRACT 30. REMOVED EASEMENTS AND LINED THRU TRACT 30. REVISED EASEMENTS ON TRACT 16.

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.217+50 TO E.O.P.

SCALE: 1"=50'

K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\010 SHCanadaRd Present Layout.sht
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	10A
R.O.W.	2012	IM-40-I(316)	10A
CONST.	2014	NH-I-40-1(283)20	10A

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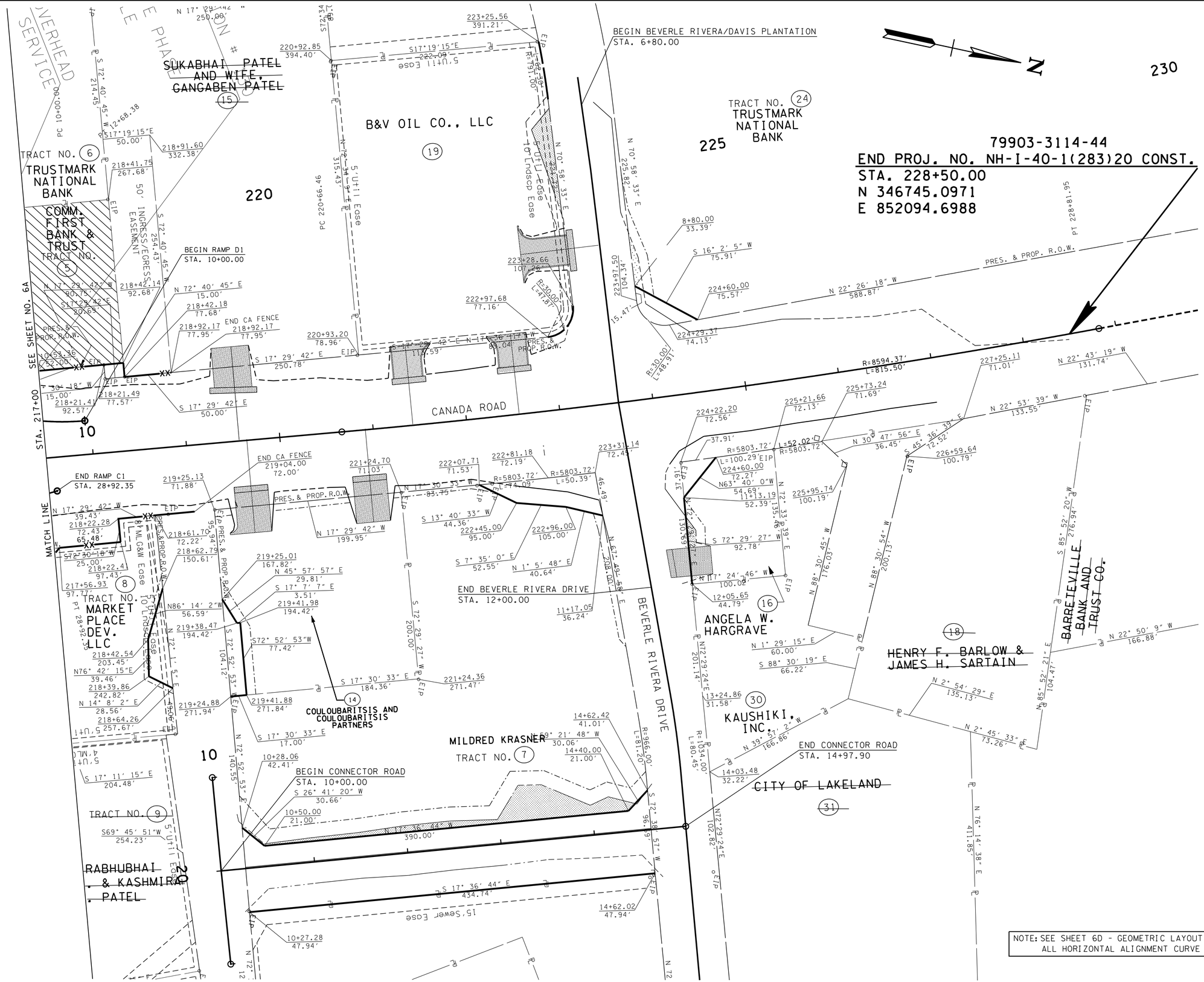
REV. 11/30/2012 REVISED LABELS ON EXIST. R.O.W. ON TRACTS 5, 6, 7, 8, 14, 15, 16, 24 & 30. REVISED PROP. R.O.W. LABELS ON TRACT 5. REVISED R.O.W. & EASEMENT ACQUISITION LINEWORK AND LABELS TO REFLECT THE ALIGNMENT CHANGE ON RAMP C1, AFFECTING TRACT 8 AND TYPICAL SECTION CHANGES TO CANADA ROAD AFFECTING TRACTS 7, 8, 14, 16, 24 & 30. REVISED C.A. & FENCE ON TRACT 8. ADDED STATION EQUATIONS TO ENDS OF RAMPS C1 & D.

REV. 12/14/2012 REVISED OWNER'S NAME ON TRACTS 6, 15, & 30. REMOVED DUPLICATE LABELS ON TRACT 8.

REV. 01/30/2013 REVISED TEMPORARY CONSTRUCTION EASEMENT ON TRACT NO. 19. LINED THRU TRACT 15.

REV. 05/17/2013 REVISED OWNERS NAME ON TRACT 5. REVISED EASEMENT AND DRIVEWAY ON TRACT 16. REMOVED PART OF TRACT 7 AND ADDED TO EXIST. ROW OF BEVERLE RIVERA DRIVE. ADDED CONNECTOR ROAD ALIGNMENT, ROW ACQUISITION AND EASEMENTS TO TRACT 7.

REV. 08/18/2013 REVISED OWNERS NAME ON TRACT 30. REMOVED EASEMENTS AND LINED THRU TRACT 30. REVISED EASEMENTS ON TRACT 16.



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.217+50 TO E.O.P.

SCALE: 1"=50'

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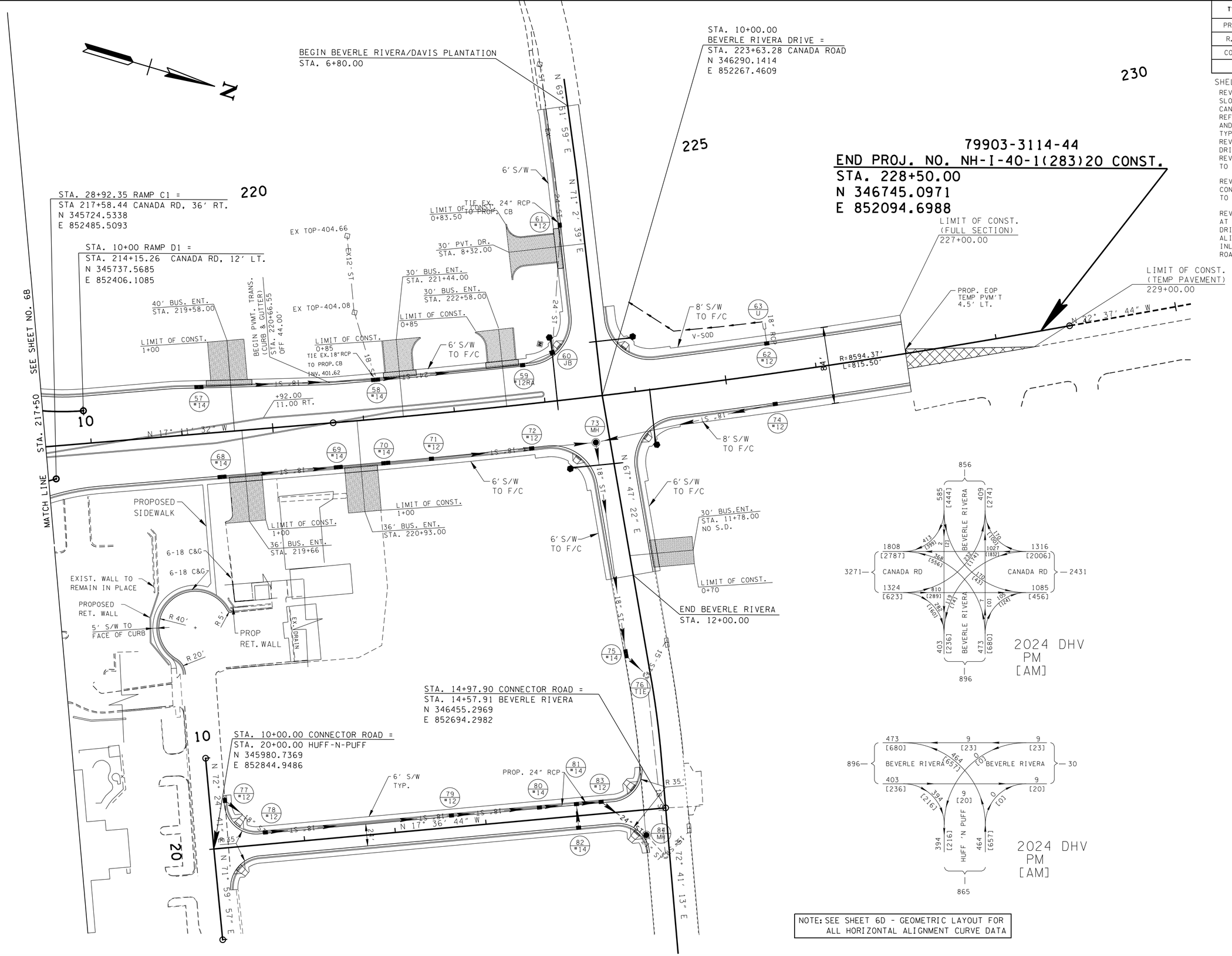
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	10B
R.O.W.	2012	IM-40-I(316)	10B
CONST.	2014	NH-I-40-1(283)20	10B

SHELBY CO. I-40

REV. 11/30/2012 REVISED LAYOUT, SLOPE LIMITS, AND DRAINAGE ON CANADA ROAD AND RAMP C1 TO REFLECT CHANGES IN THE ALIGNMENT AND PROFILE TO RAMP C1 AND TO THE TYPICAL SECTION OF CANADA ROAD. REVISED DRAINAGE TABLES. REVISED DRIVEWAYS TO TRACTS 14 AND 16. REVISED TEMPORARY PAVEMENT WEDGE TO TIE INTO EXISTING CANADA ROAD.

REV. 05/16/2013 REVISED LIMIT OF CONST. ON BEVERLE RIVERA DR. TO STA. 12+00.00

REV. 05/17/2013 REVISED DRIVEWAY AT STA. 11+77 LT. BEVERLE RIVERA DRIVE. ADDED CONNECTOR ROAD ALIGNMENT AND LAYOUT . ADDED INLET NO. 70 STA. 221+20 RT. CANADA ROAD.



NOTE: SEE SHEET 6D - GEOMETRIC LAYOUT FOR ALL HORIZONTAL ALIGNMENT CURVE DATA

UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 217+50 TO E.O.P.

SCALE: 1"=50'

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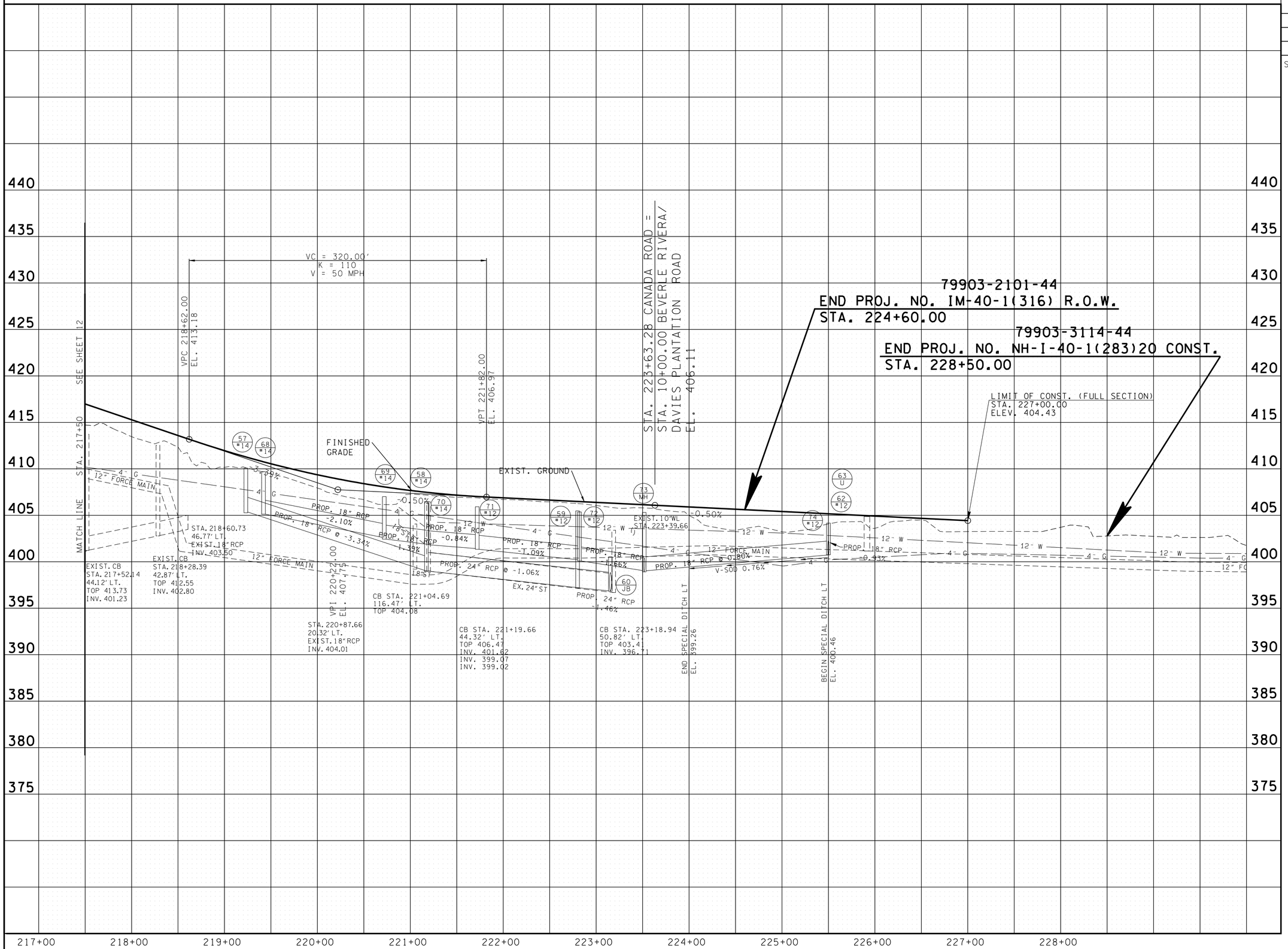
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	10C
R.O.W.	2012	IM-40-I(316)	10D
CONST.	2014	NH-I-40-1(283)20	10C

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TO REFLECT CHANGES TO THE ALIGNMENT AND PROFILE OF RAMP C1 AND TO THE TYPICAL SECTION OF CANADA ROAD. REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES. ADDED INLET NO. 70 AT STA. 221+20 RT. CANADA ROAD. RENUMBER SHEET TO 10D TO ALLOW FOR DRAINAGE DATA SHEET 10C.



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PROFILE

CANADA ROAD

STA. 217+50 TO EOP

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

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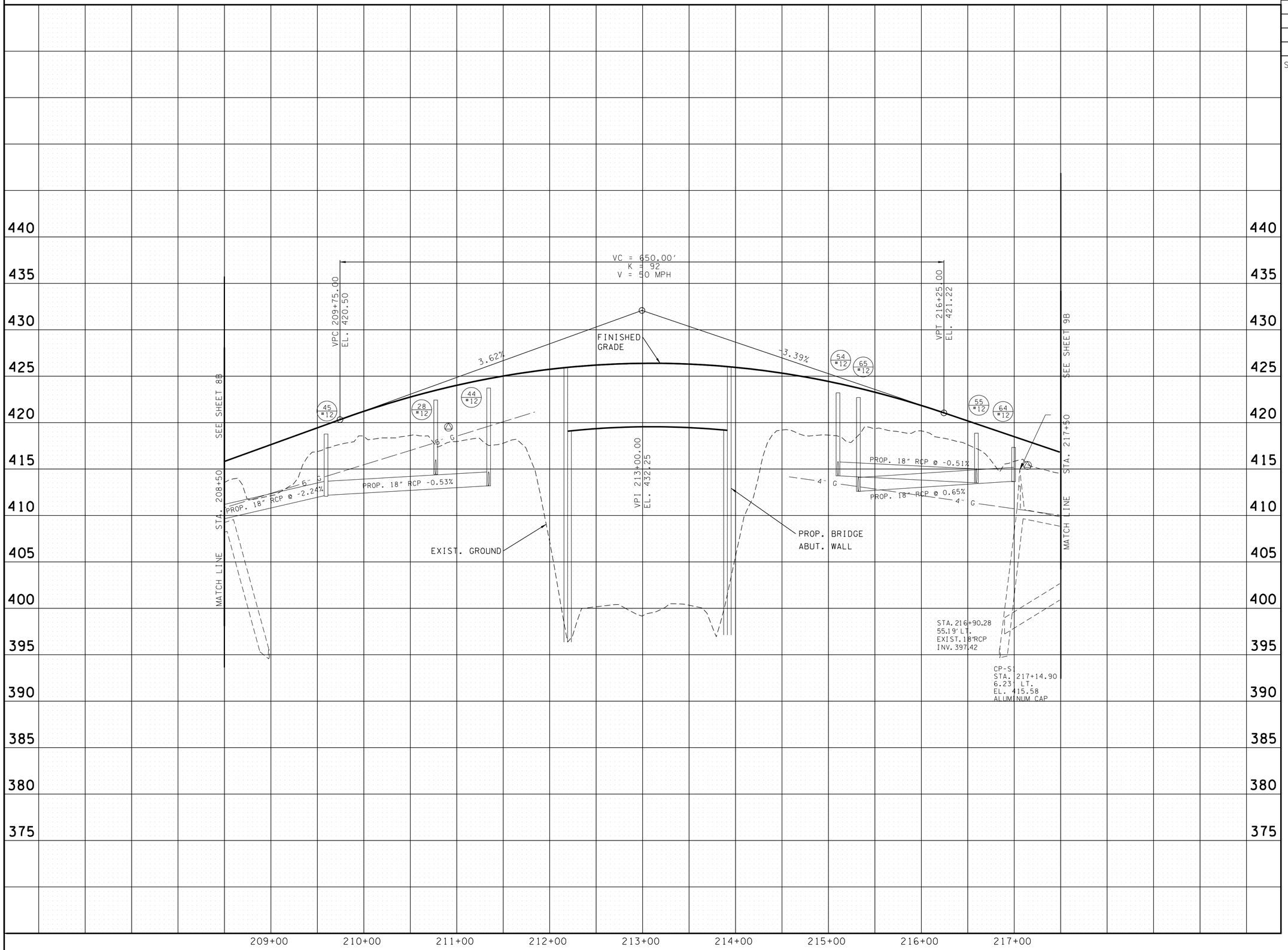
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	12
R.O.W.	2012	IM-40-I(316)	12
CONST.	2014	NH-I-40-1(283)20	11

SHELBY CO. I-40

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



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DEPARTMENT OF TRANSPORTATION

PROFILE
CANADA ROAD

STA. 208+50 TO STA. 217+50

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	13
R.O.W.	2012	IM-40-I(316)	13
CONST.	2014	NH-I-40-1(283)20	12

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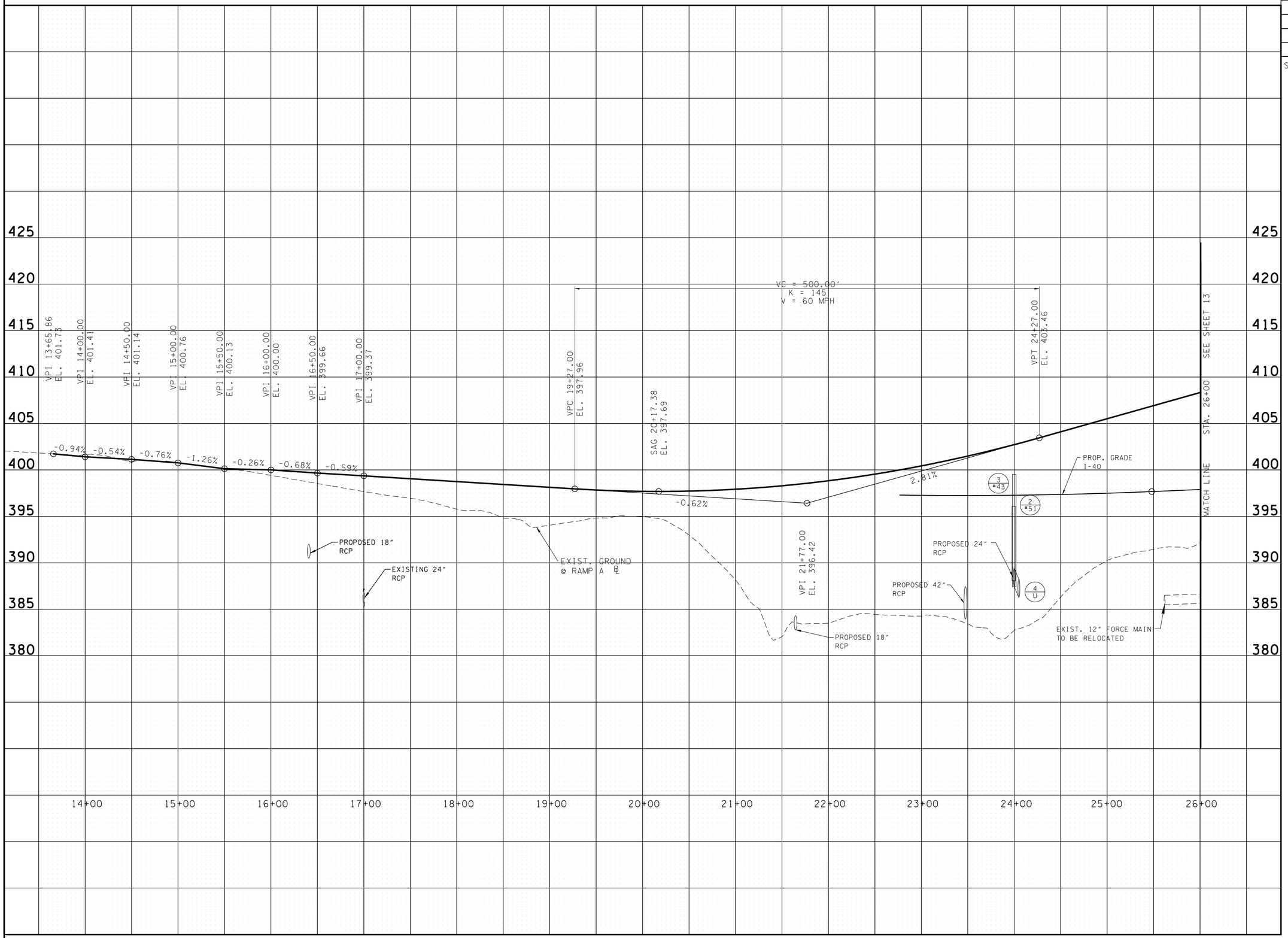

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DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP A

STA.13+65.86 TO STA.26+00

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

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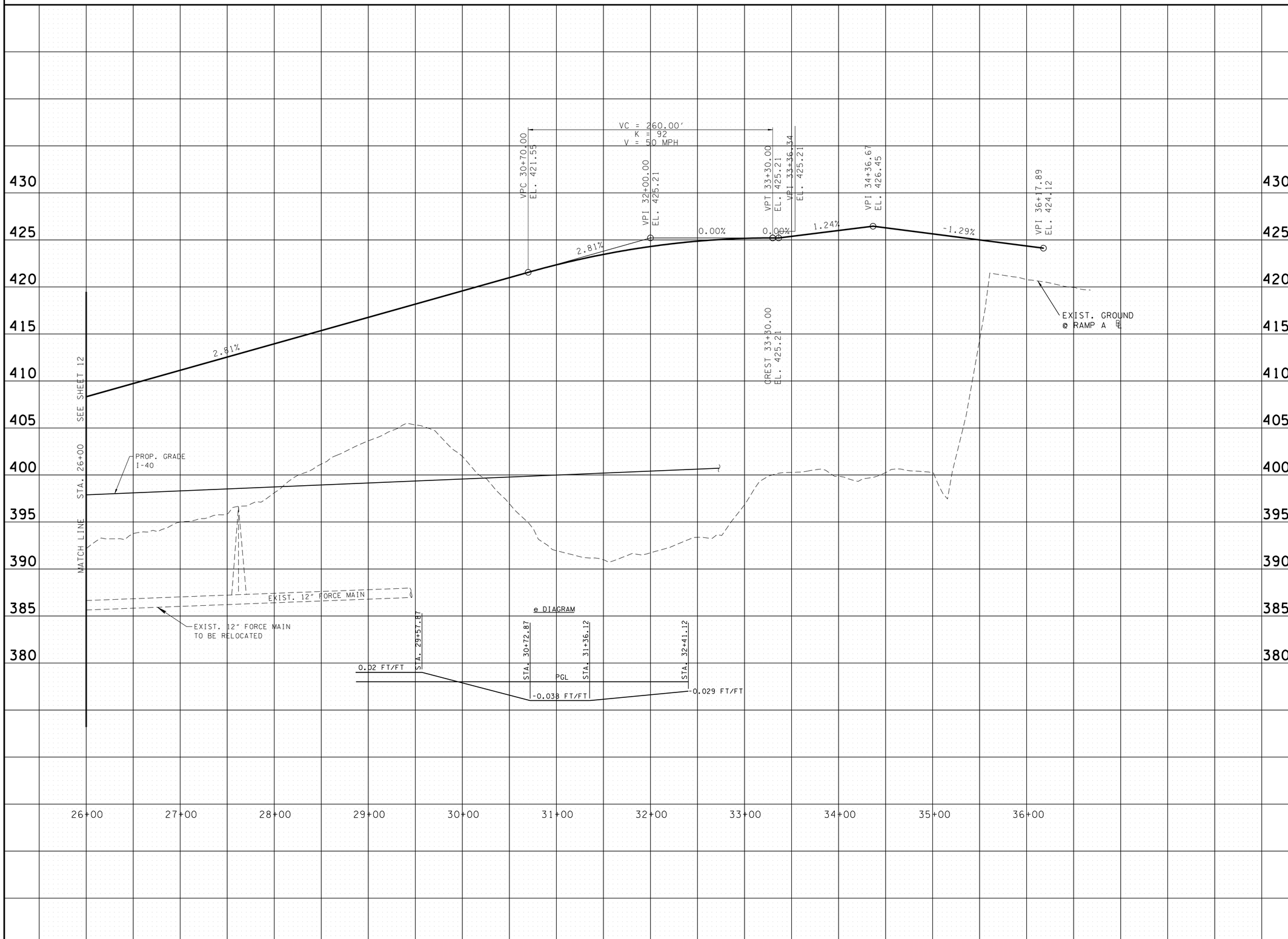
k:\proj\tdot_canadard_7779_prelimplans\construction plans\012 SHCanadaRd Ramp A Profile i.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	14
R.O.W.	2012	IM-40-I(316)	14
CONST.	2014	NH-I-40-1(283)20	13

SHELBY CO. I-40

REV. 11/30/2012 REMOVED CROSS DRAIN FROM PROFILE. REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



UNOFFICIAL SET

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PROFILE
RAMP A

STA.26+00 TO 36+17.89

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

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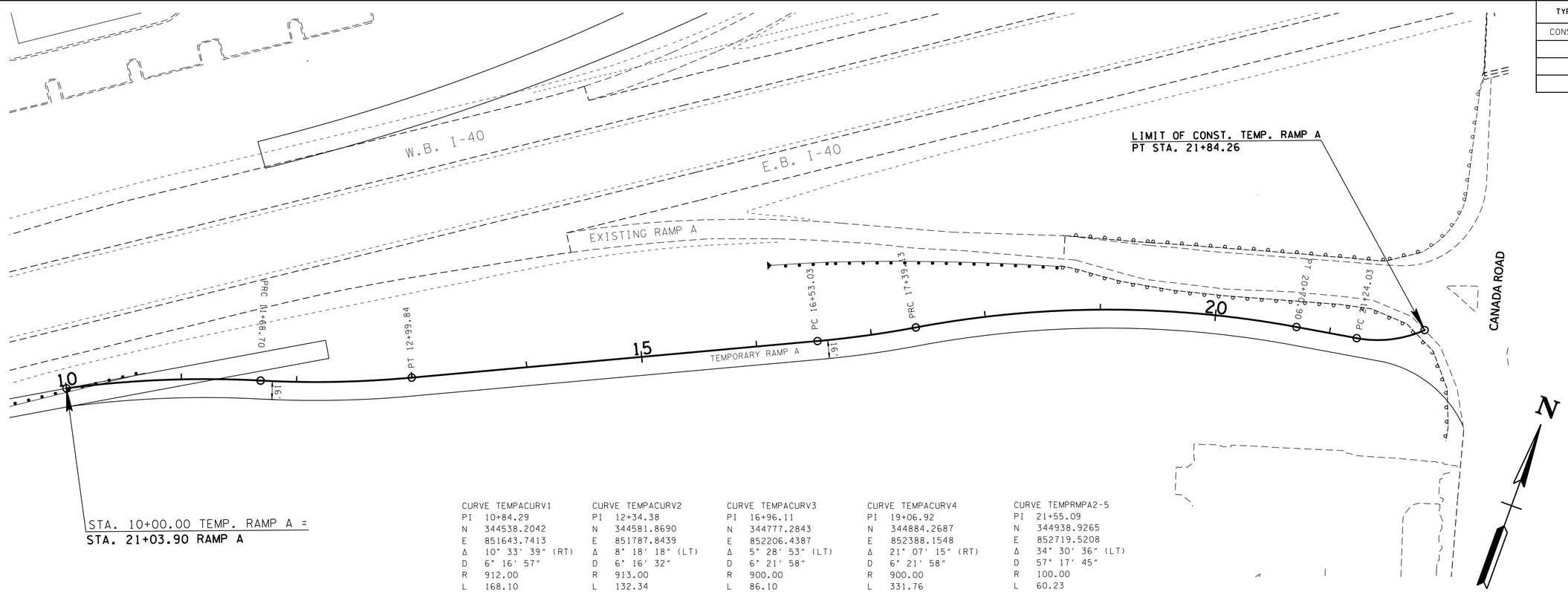
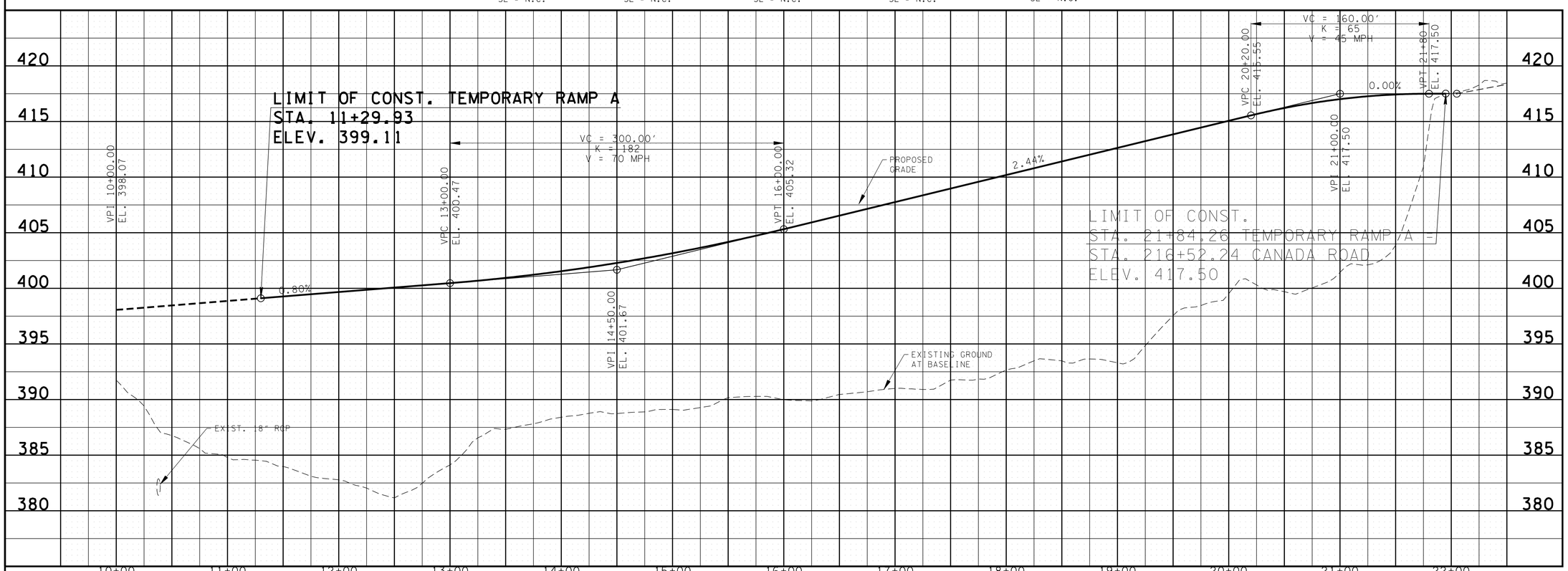
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	14



STA. 10+00.00 TEMP. RAMP A =
STA. 21+03.90 RAMP A

CURVE TEMPACURV1	CURVE TEMPACURV2	CURVE TEMPACURV3	CURVE TEMPACURV4	CURVE TEMPRMPA2-5
PI 10+84.29	PI 12+34.38	PI 16+96.11	PI 19+06.92	PI 21+55.09
N 344538.2042	N 344581.8690	N 344777.2843	N 344884.2687	N 344938.9265
E 851643.7413	E 851787.8439	E 852206.4387	E 852388.1548	E 852719.5208
Δ 10° 33′ 39″ (RT)	Δ 8° 18′ 18″ (LT)	Δ 5° 28′ 53″ (LT)	Δ 21° 07′ 15″ (RT)	Δ 34° 30′ 36″ (LT)
D 6° 16′ 57″	D 6° 16′ 32″	D 6° 21′ 58″	D 6° 21′ 58″	D 57° 17′ 45″
R 912.00	R 913.00	R 900.00	R 900.00	R 100.00
L 168.10	L 132.34	L 86.10	L 331.76	L 60.23
T 84.29	T 66.28	T 43.08	T 167.79	T 31.06
SE = N.C.	SE = N.C.	SE = N.C.	SE = N.C.	SE = N.C.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

TEMPORARY RAMP A

SCALE: 1"= 50′ HORIZ.
1"= 5′ VERT.

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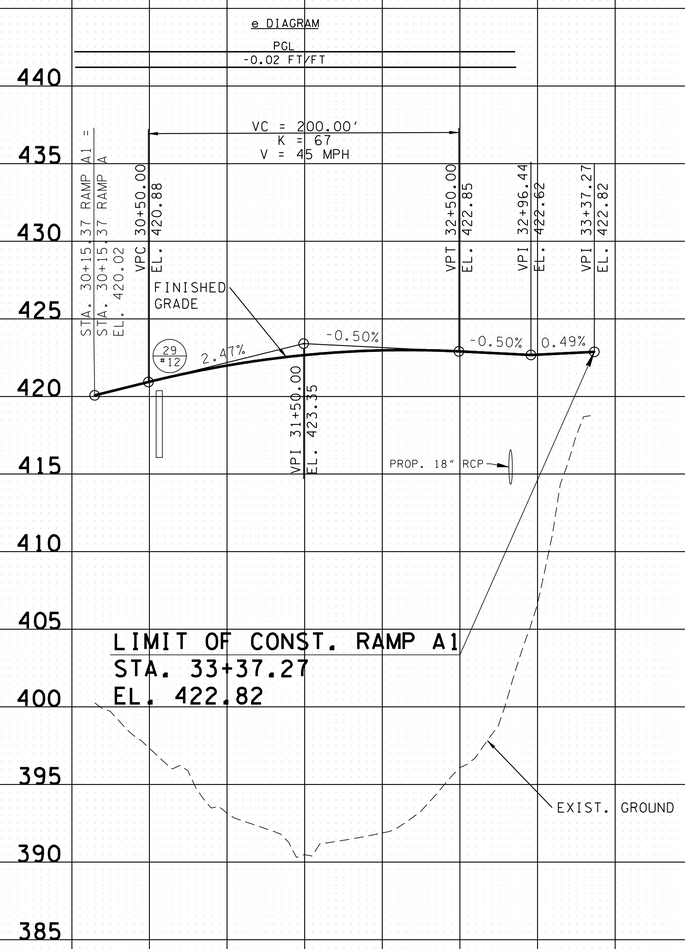
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	15
R.O.W.	2012	IM-40-I(316)	15
CONST.	2014	NH-I-40-1(283)20	15

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

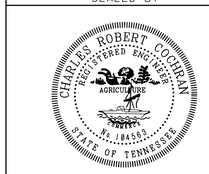
REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP A1

STA.30+15.37 TO STA.33+37.27

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

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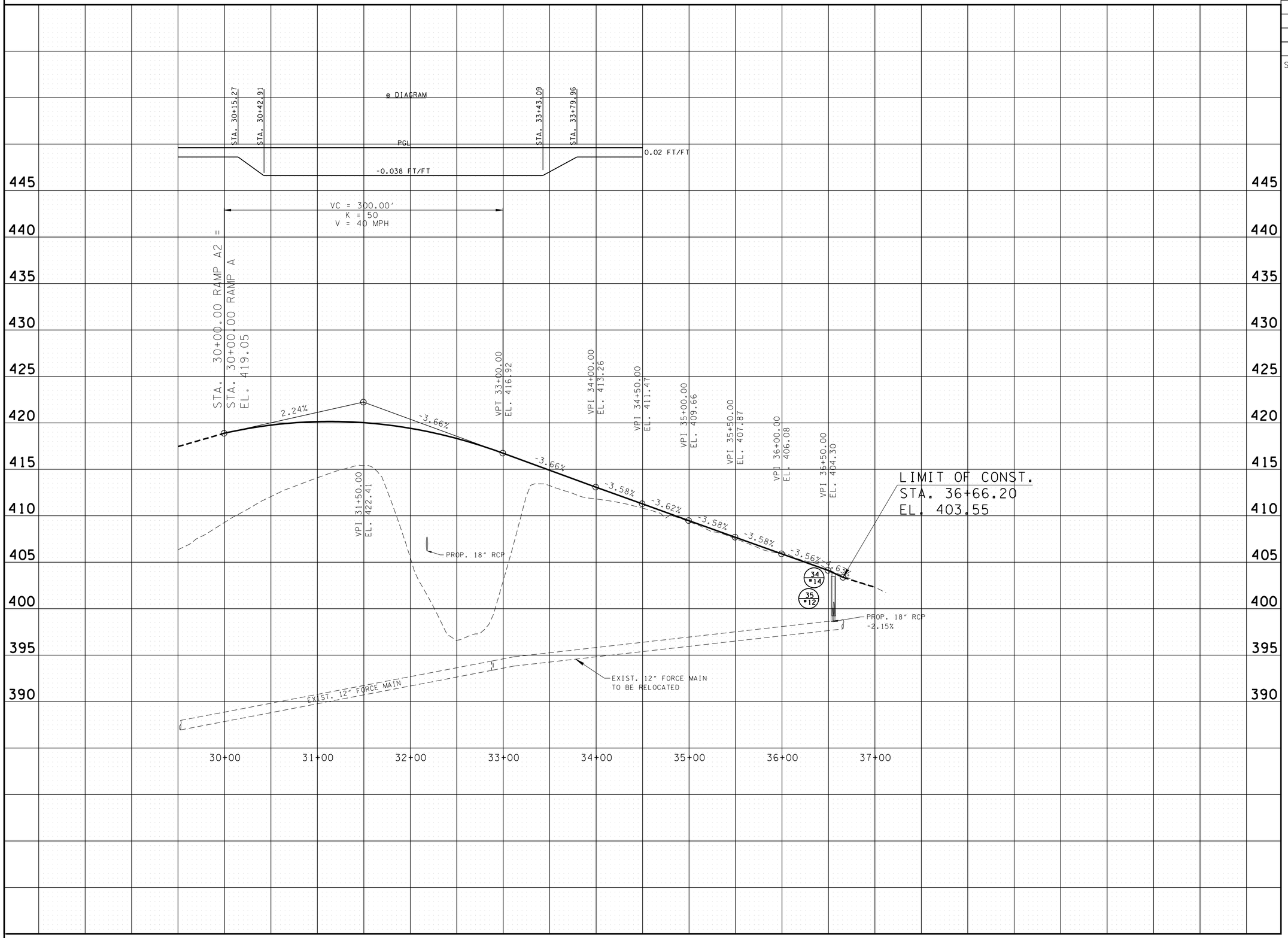
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	16
R.O.W.	2012	IM-40-I(316)	16
CONST.	2014	NH-I-40-1(283)20	16

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP A2

STA.30+00 TO STA.36+66.20

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

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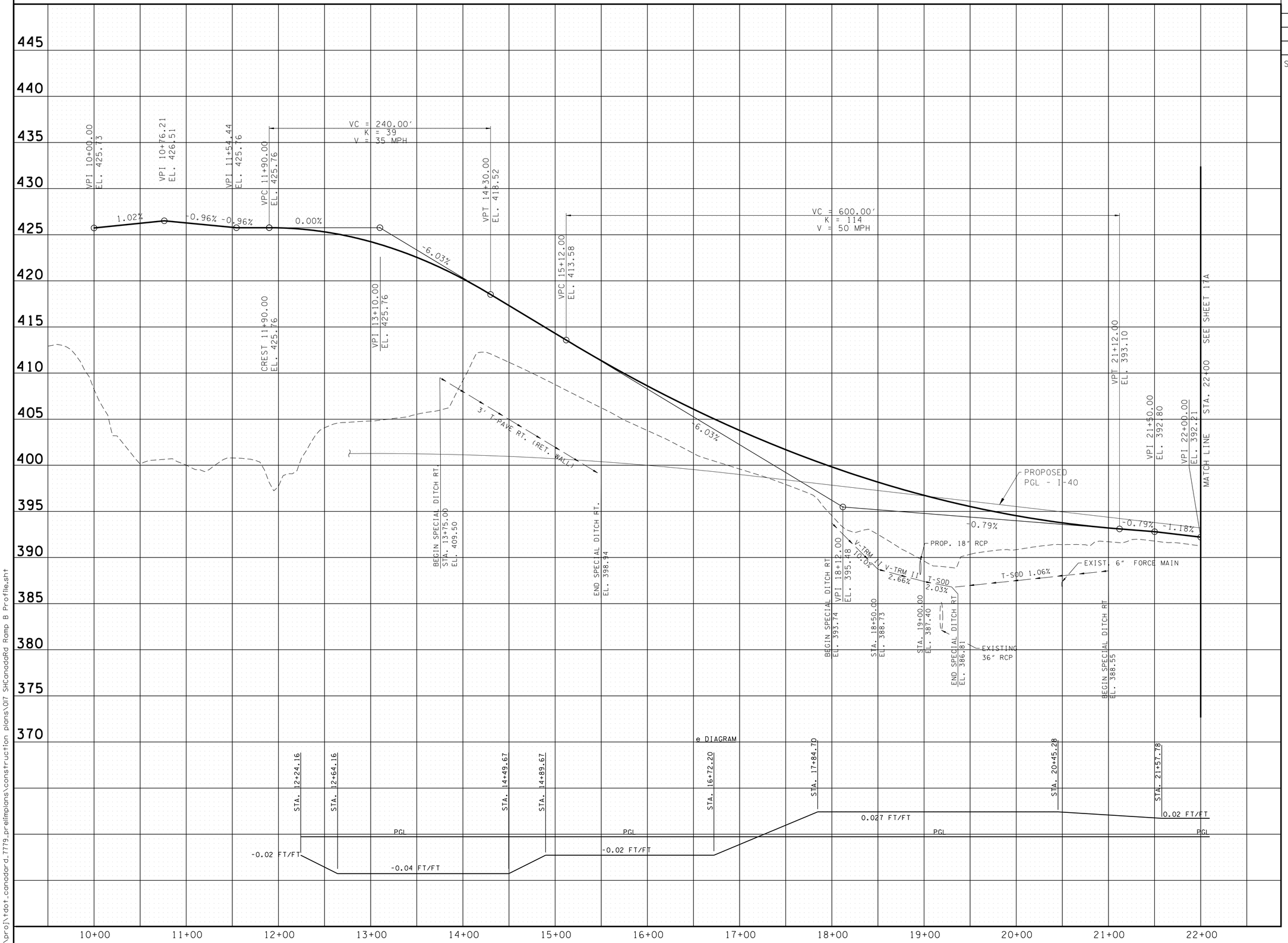
k:\proj\tdot_canadard_7779_prelimplans\construction plans\016 SHCanadaRd Ramp A2 Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	17
R.O.W.	2012	IM-40-I(316)	17
CONST.	2014	NH-I-40-1(283)20	17

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



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PROFILE
RAMP B

STA.10+00 TO STA.22+00

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

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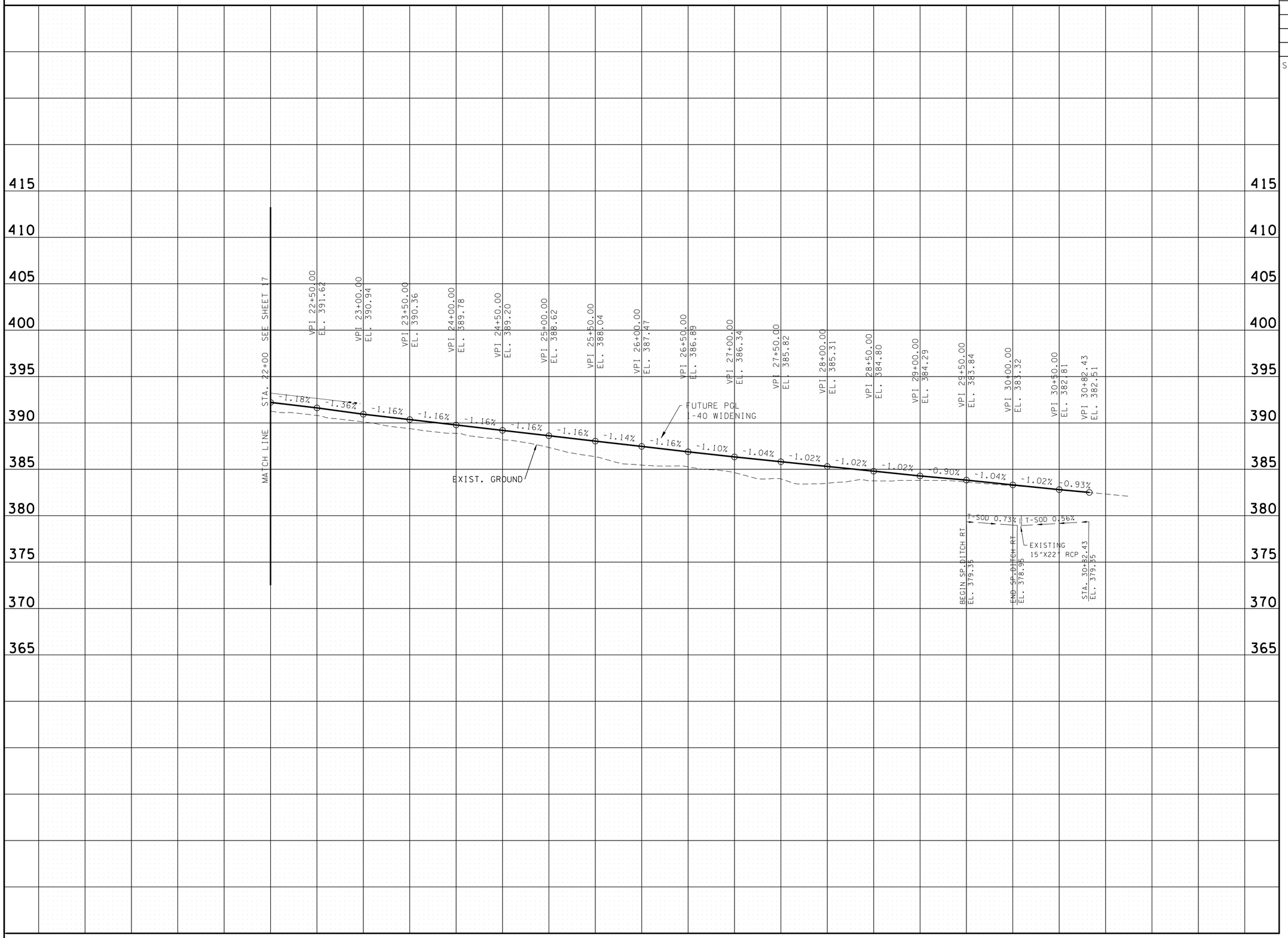
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	17A

SHELBY CO. I-40



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP B

STA.22+00 TO STA.30+82.43

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

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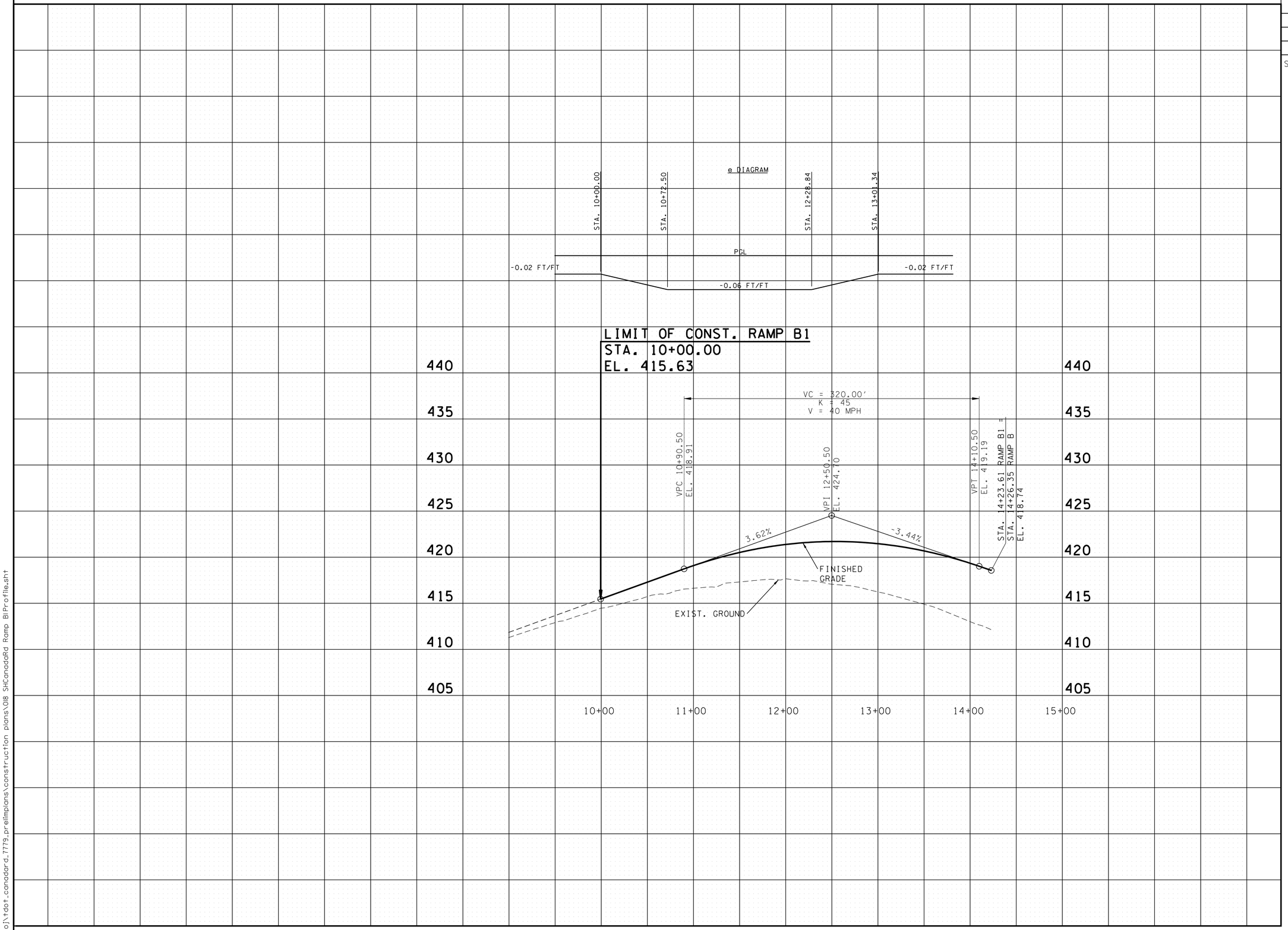
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	18
R.O.W.	2012	IM-40-I(316)	18
CONST.	2014	NH-I-40-1(283)20	18

SHELBY CO. I-40



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP B1

STA.10+00 TO STA.14+23.61

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

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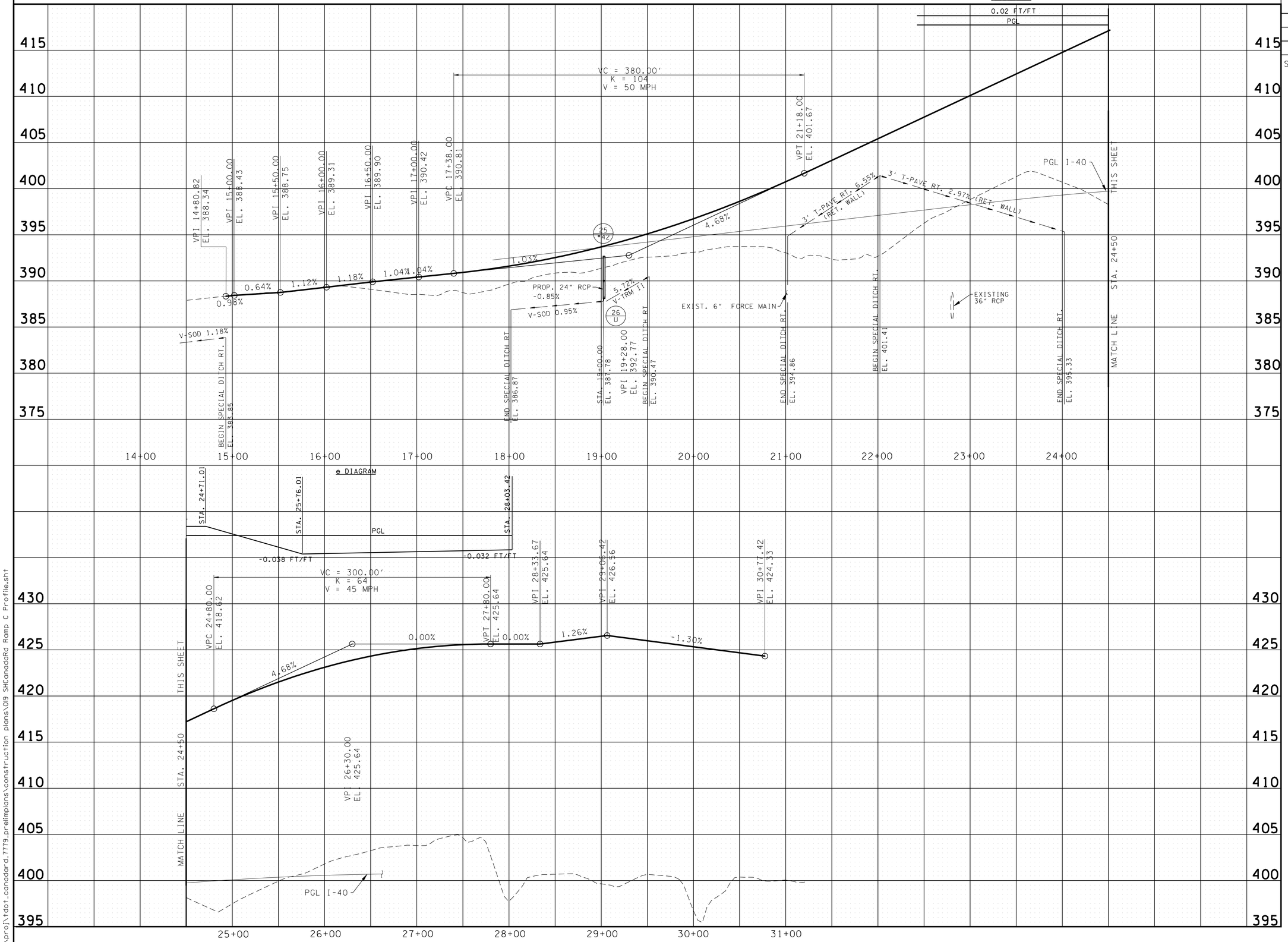
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	19
R.O.W.	2012	IM-40-I(316)	19
CONST.	2014	NH-I-40-1(283)20	19

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP C

STA. 14+80.82 TO 30+77.42

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

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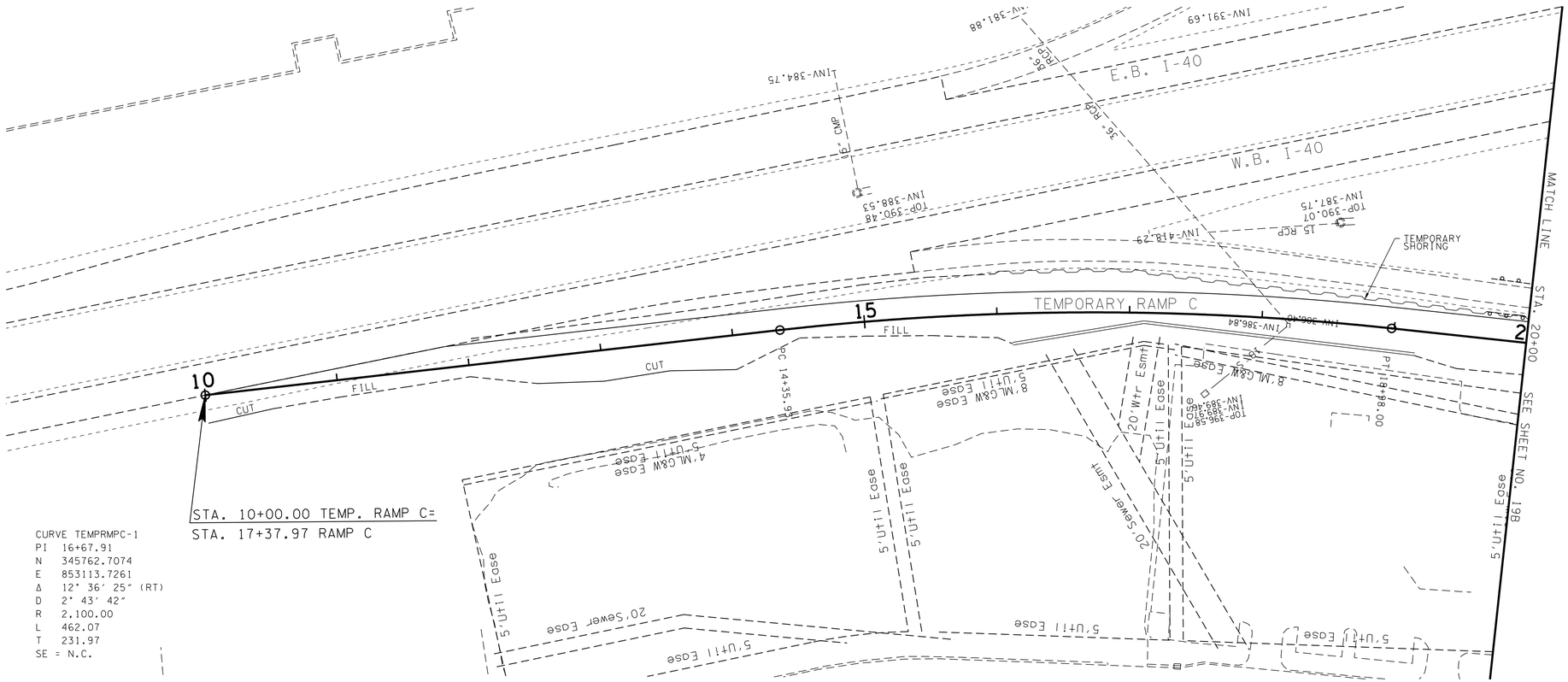
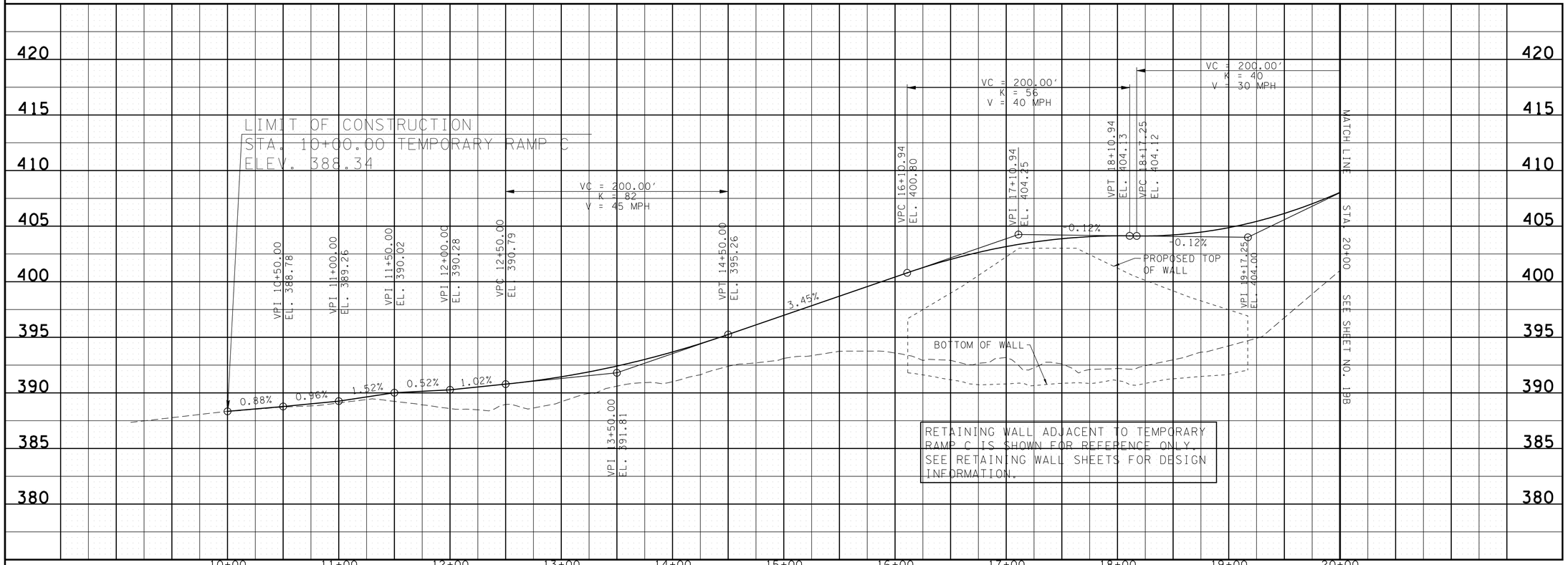
k:\proj\tdot_canadard_7779_prelimplans\construction plans\019 SHCanadaRd Ramp C Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	19A



STA. 10+00.00 TEMP. RAMP C=
STA. 17+37.97 RAMP C

CURVE TEMPRMPC-1
PI 16+67.91
N 345762.7074
E 853113.7261
Δ 12° 36′ 25″ (RT)
D 2° 43′ 42″
R 2,100.00
L 462.07
T 231.97
SE = N.C.



RETAINING WALL ADJACENT TO TEMPORARY RAMP C IS SHOWN FOR REFERENCE ONLY. SEE RETAINING WALL SHEETS FOR DESIGN INFORMATION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

TEMPORARY RAMP C

STA. 10+00 TO STA. 20+00

SCALE: 1"= 50′ HORIZ.
1"= 5′ VERT.

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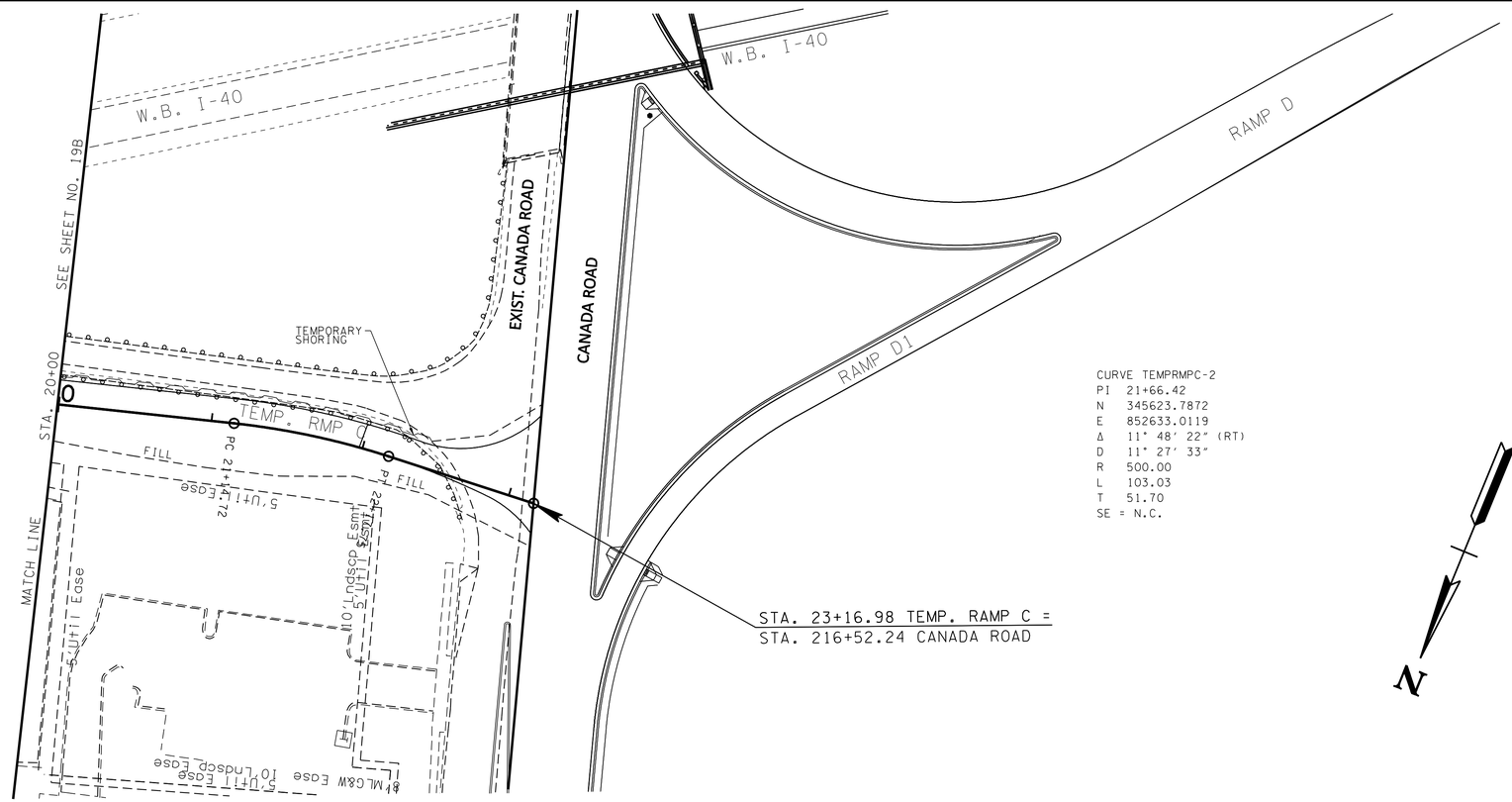
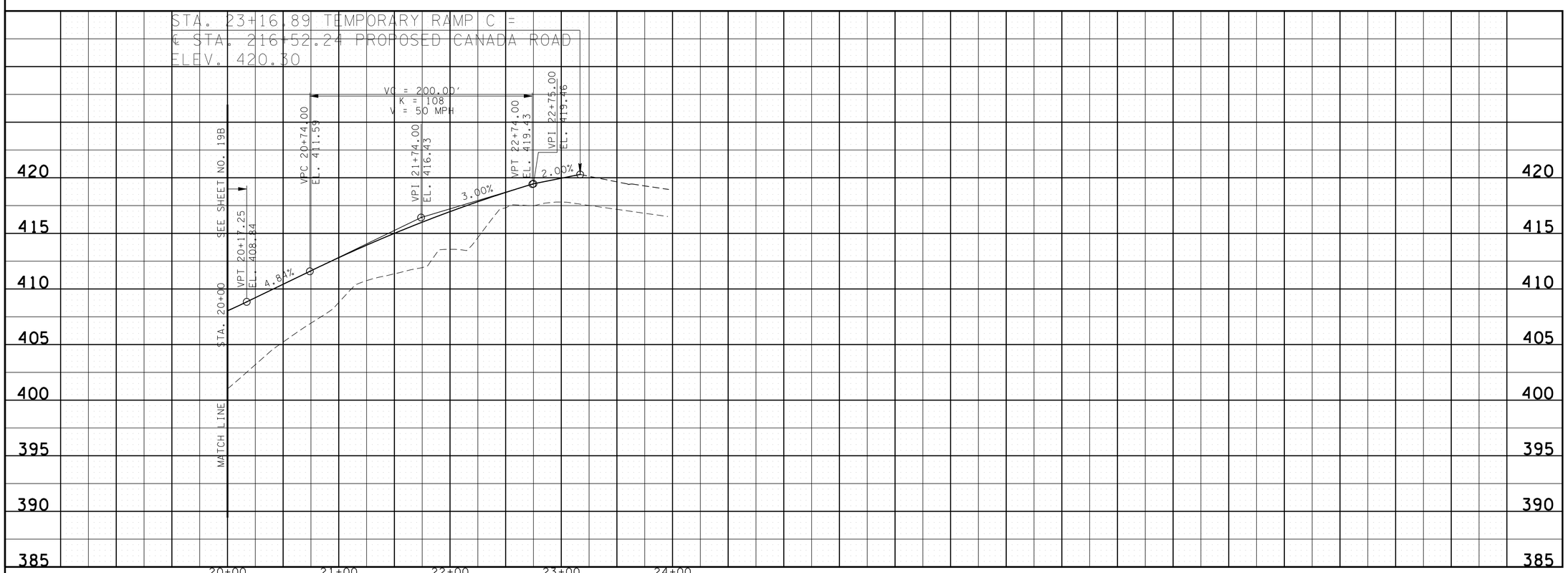
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	19B



CURVE TEMPRMPC-2
PI 21+66.42
N 345623.7872
E 852633.0119
Δ 11° 48′ 22″ (RT)
D 11° 27′ 33″
R 500.00
L 103.03
T 51.70
SE = N.C.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

TEMPORARY RAMP C

STA. 20+00 TO STA. 23+16.89

SCALE: 1"= 50′ HORIZ.
1"= 5′ VERT.

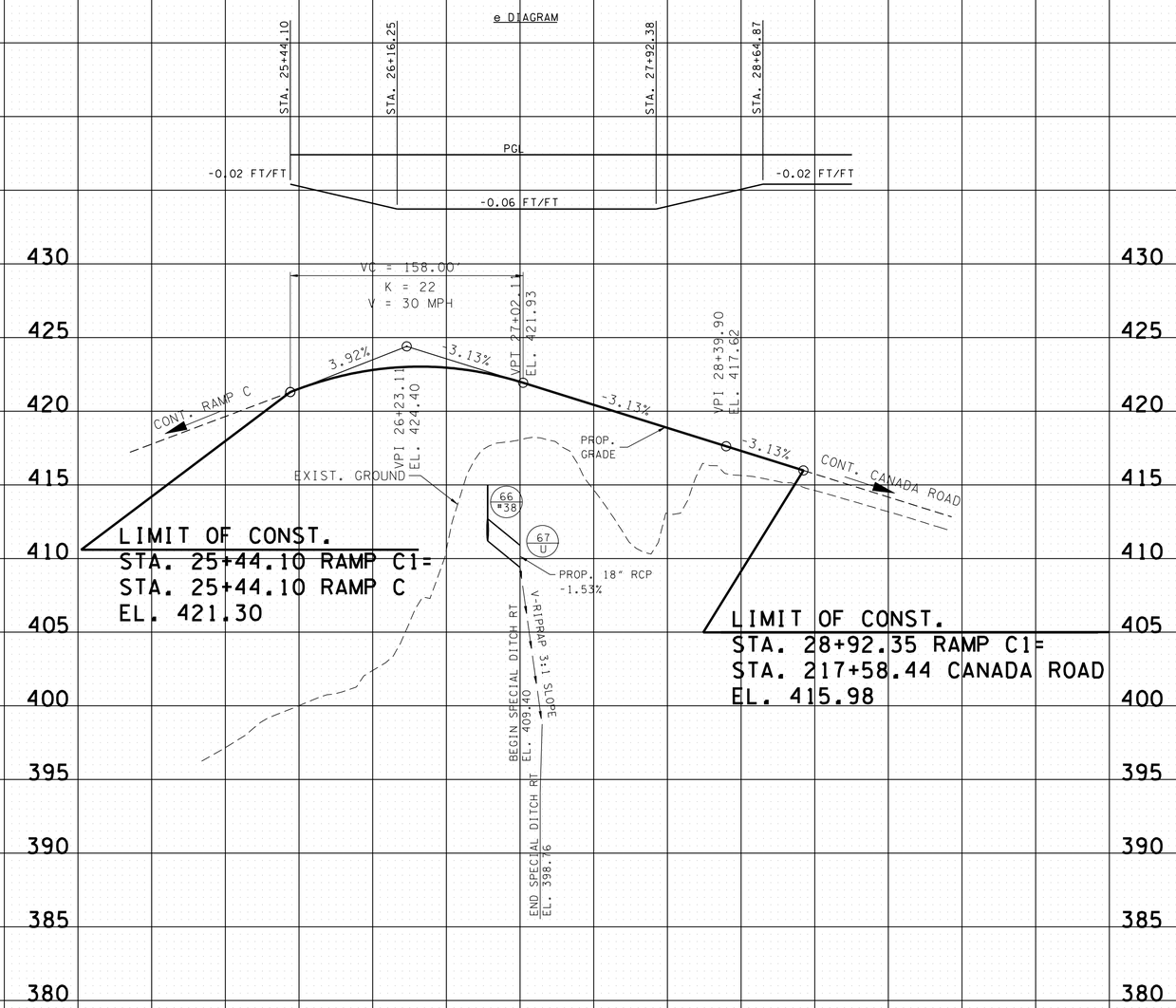
2/24/2014 1:46:16 PM
K:\proj\tdot_canadard_7779_prelimplans\construction plans\019B SH CanadaRd Temp Ramp C Plan&Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	20
R.O.W.	2012	IM-40-I(316)	20
CONST.	2014	NH-I-40-1(283)20	20

SHELBY CO. I-40

REV. 11/30/2012 REVISED PROFILE TO RELECT THE NEW RAMP C1 ALIGNMENT. REVISED DRAINAGE AND DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP C1

STA.25+44.10 TO STA.28+92.35

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

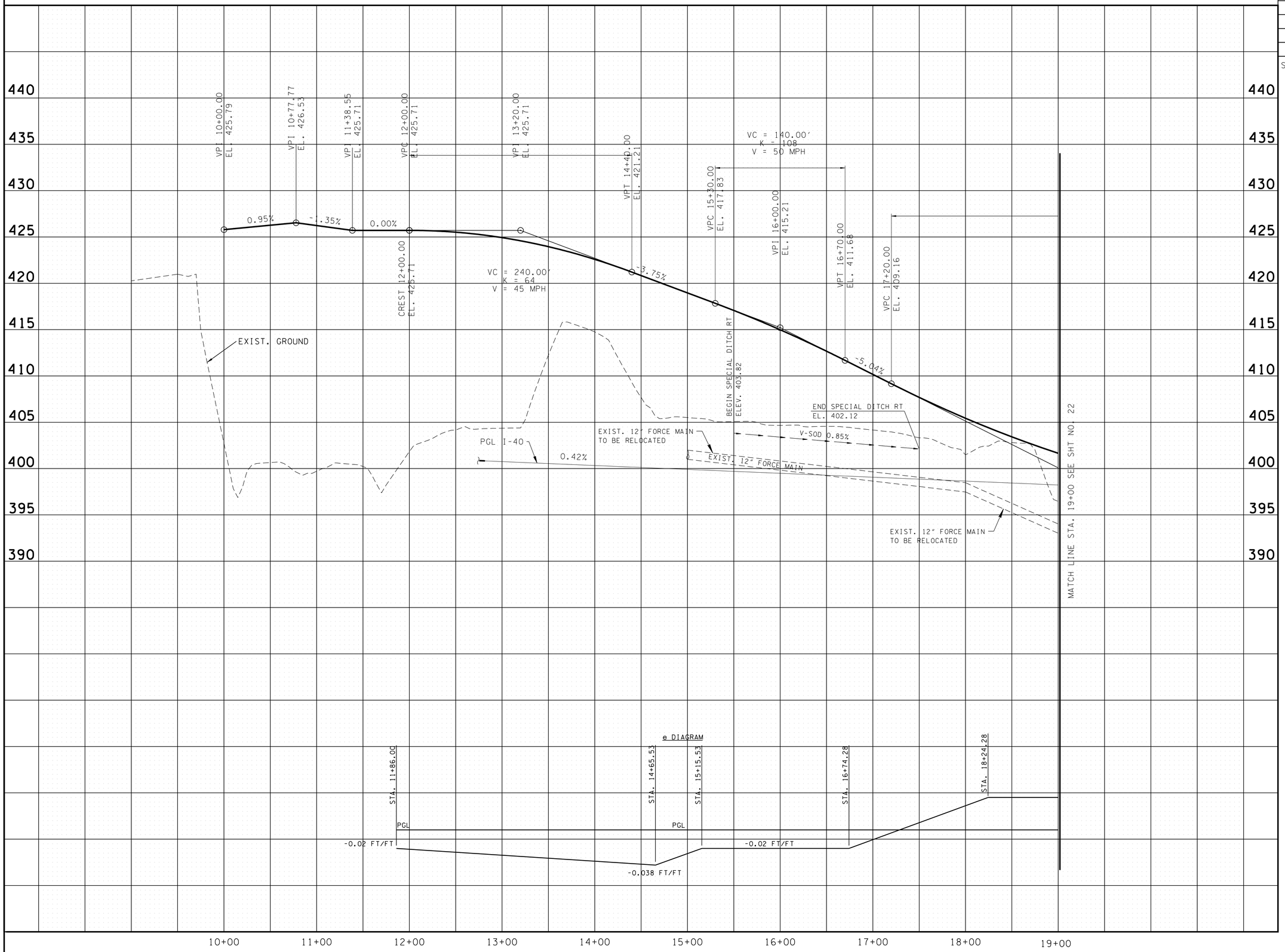
2/24/2014 4:46:19 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\020 SHCanadaRd Ramp C1Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	21
R.O.W.	2012	IM-40-I(316)	21
CONST.	2014	NH-I-40-1(283)20	21

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REMOVED DRAINAGE TABLES



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP D

STA. 10+00 TO 19+00

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

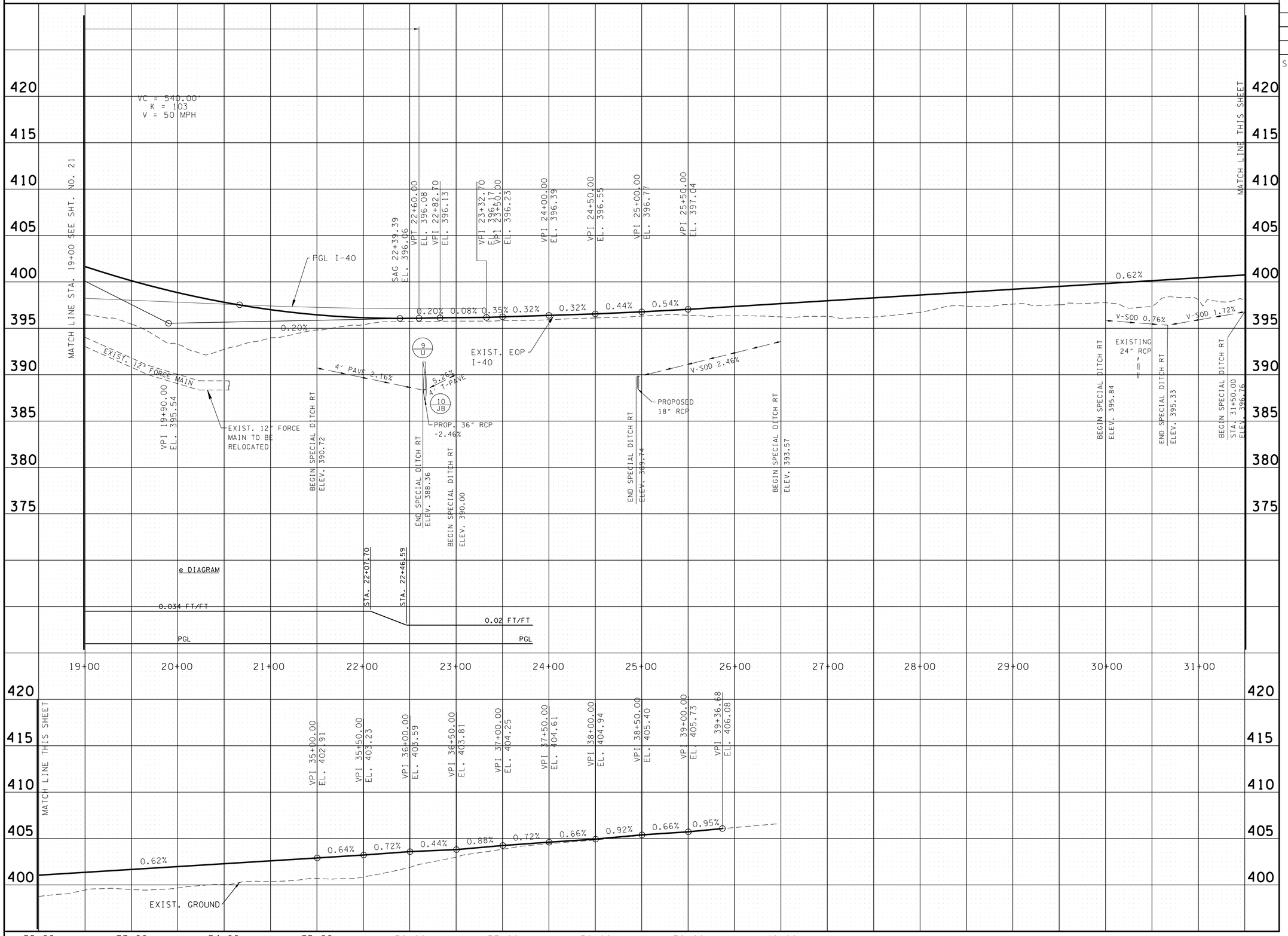
2/24/2014 1:46:23 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\02\SHCanadaRd Ramp D Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	22
CONST.	2014	NH-I-40-1(283)20	22

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REMOVED DRAINAGE TABLES



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

PROFILE
RAMP D

STA. 19+00 TO 39+36.68

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

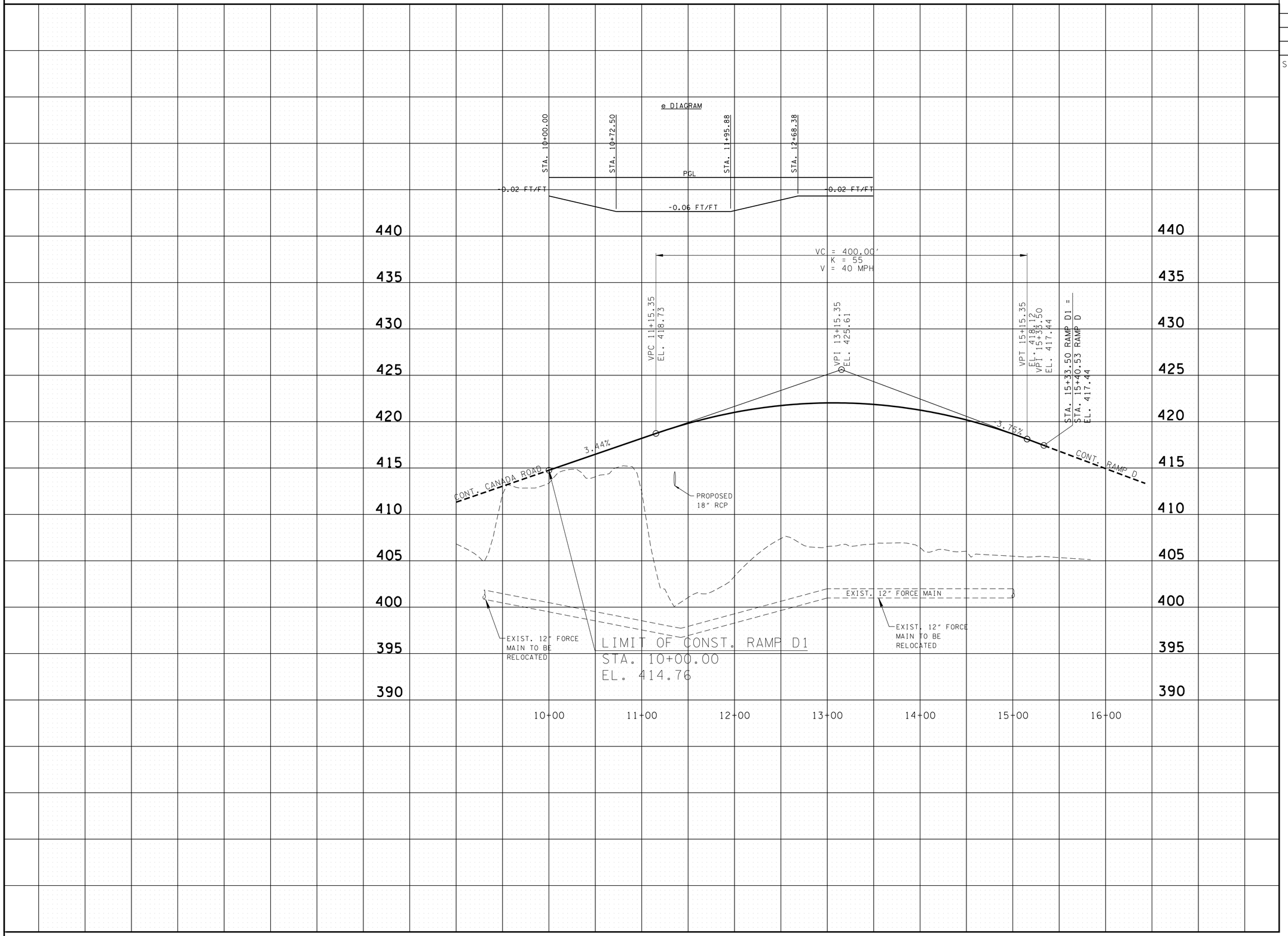
2/24/2014 1:46:27 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\022 SHCanadaRd Ramp D Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	23
R.O.W.	2012	IM-40-I(316)	23
CONST.	2014	NH-I-40-1(283)20	23

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TABLES.

REV. 05/17/2013 REVISED DRAINAGE TABLES AND NODES.



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PROFILE
RAMP D1

STA.10+00 TO STA. 15+33.50

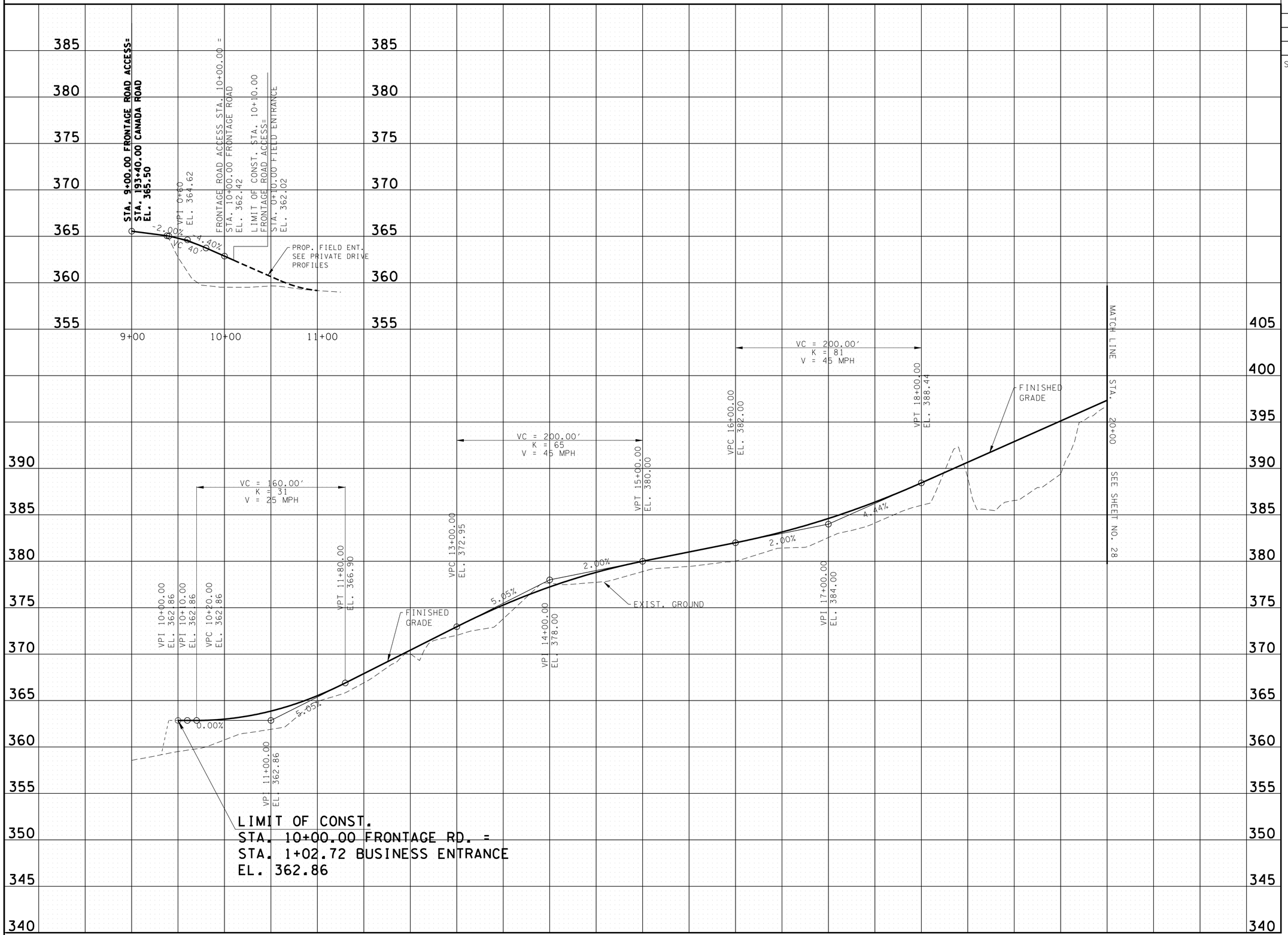
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

2/24/2014 1:46:32 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\023 SHCanadaRd Ramp D1Profile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	27
CONST.	2014	NH-I-40-1(283)20	24

SHELBY CO. I-40

REV. 11/30/2012 ADDED MATCHLINE



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

FRONTAGE ROAD ACCESS & FRONTAGE ROAD

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

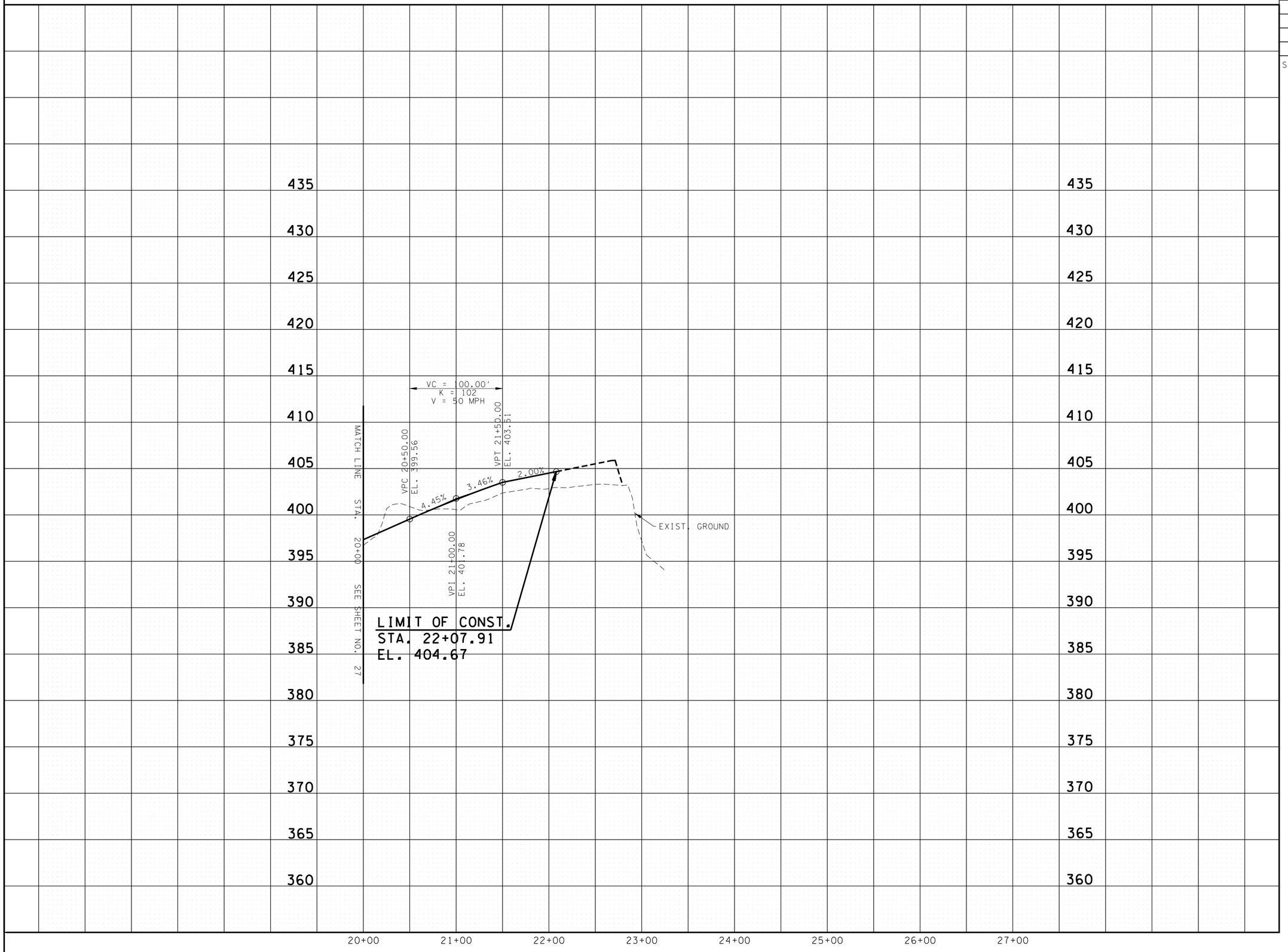
2/25/2014 8:51:25 AM
4:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\024 SHCanadaRd FRONTAGEIProfile.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	28
CONST.	2014	NH-I-40-1(283)20	25

SHELBY CO. I-40

REV. 11/30/2012 ADDED MATCHLINE

REV. 11/29/2013 REVISED PROFILE TO REFLECT NEW ALIGNMENT



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DEPARTMENT OF TRANSPORTATION

PROFILE

FRONTAGE ROAD

STA. 20+00 TO 24+30

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

2/25/2014 8:53:56 AM
k:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\025 SHCanadaRd FRONTAGE2 Profile.sht

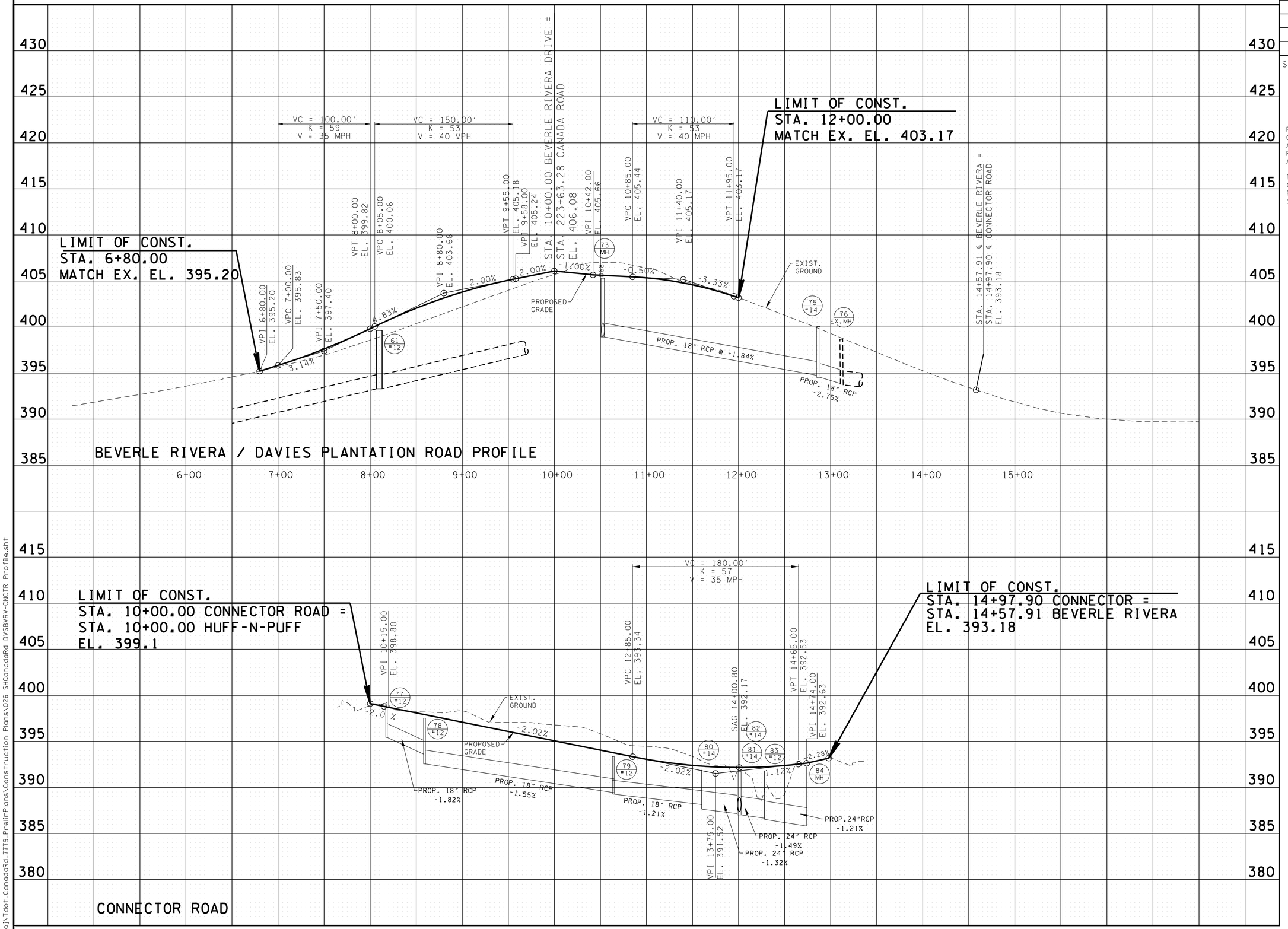
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	29
CONST.	2014	NH-I-40-1(283)20	26

SHELBY CO. I-40

REV. 12/31/2012 REVISED STATIONS ALONG BEVERLE RIVERA EXTENDED AND REVISED STA. EQUATION AT BEVERLE RIVERA EXTENDED AND BEVERLE BAY DRIVE.

REV. 05/17/2013 REMOVED PROFILE OF BEVERLE RIVERA EXTENDED AND ADDED PROFILE OF CONNECTOR ROAD. REVISED DRAINAGE TABLES AND NODES.

REV. 08/18/2013 REVISED PROFILE ON BEVERLE RIVERA DRIVE TO REFLECT LIMIT OF CONST. AT STA. 12+00.00.



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DEPARTMENT OF TRANSPORTATION

PROFILE

BEVERLE RIVERA/ DAVIES PLANTATION & CONNECTOR ROAD.

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

K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\026 SHCanadaRd DVSBVRV-CNCTR Profile.sht
2/25/2014 8:53:15 AM

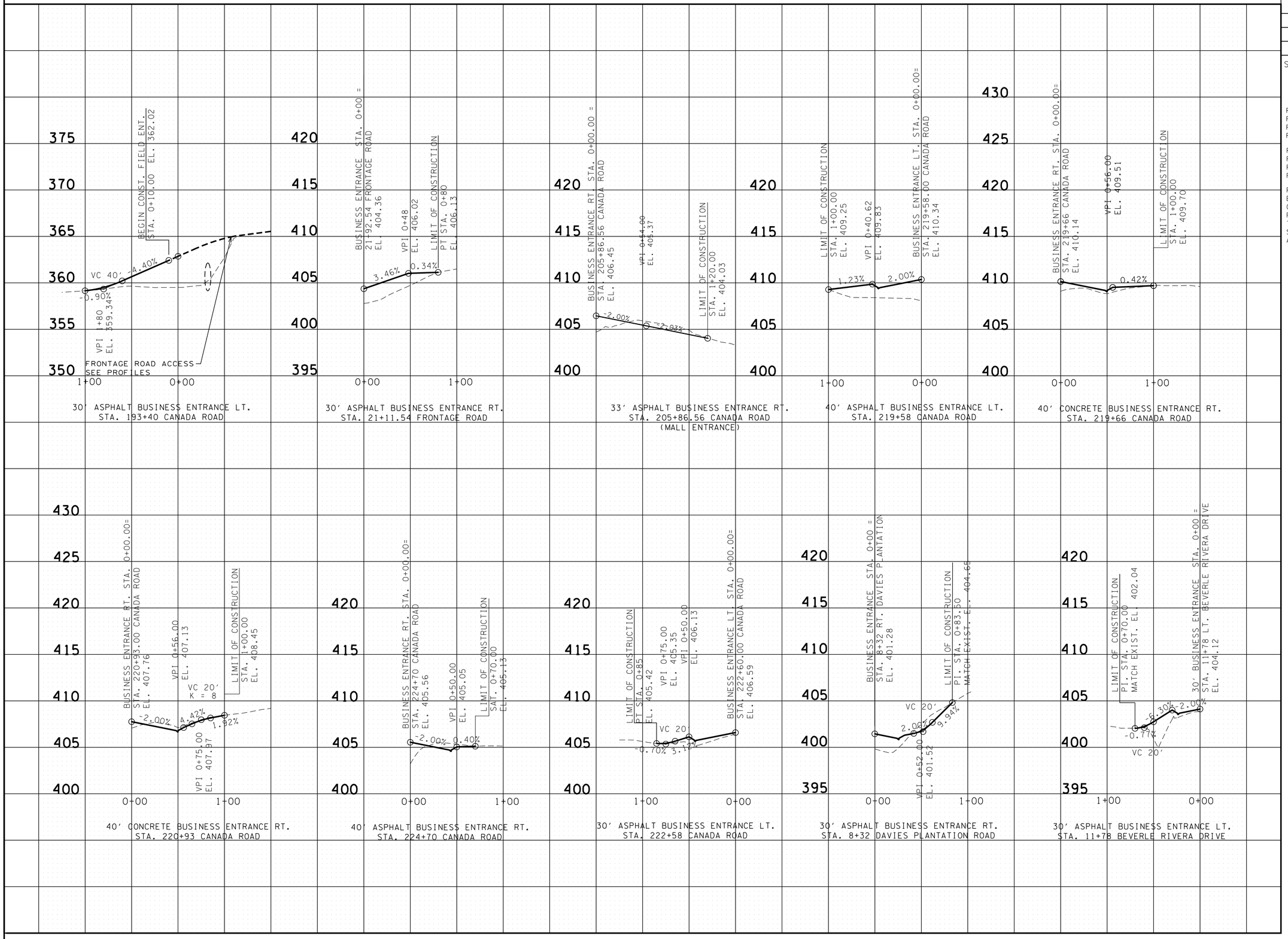
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-1(293)20	25
R.O.W.	2012	IM-40-I(316)	30
CONST.	2014	NH-I-40-1(283)20	30

SHELBY CO. I-40

REV. 05/17/2013 REVISED DRIVEWAY PROFILE AT STA. 205+86.56 RT.CANADA ROAD AND STA. 11+75 LT. BEVERLE RIVERA DRIVE.

REV. 08/18/2013 REVISED DRIVEWAY PROFILE AT STA. 11+78 RT. BEVERLE RIVERA DRIVE TO TIE TO REVISED PROFILE.

REV. 11/29/2013 DELETED BUSINESS ENTRANCE AT STA. 221+44 LT. ON CANADA ROAD. ADDED BUSINESS ENTRANCE PROFILE FROM THE FRONTAGE ROAD TO TRACT 2. REVISED DATA ON PROFILES AT STA. 205+86.56 AND 222+58 CANADA ROAD AND STA. 8+32 DAVIES PLANTATION ROAD.



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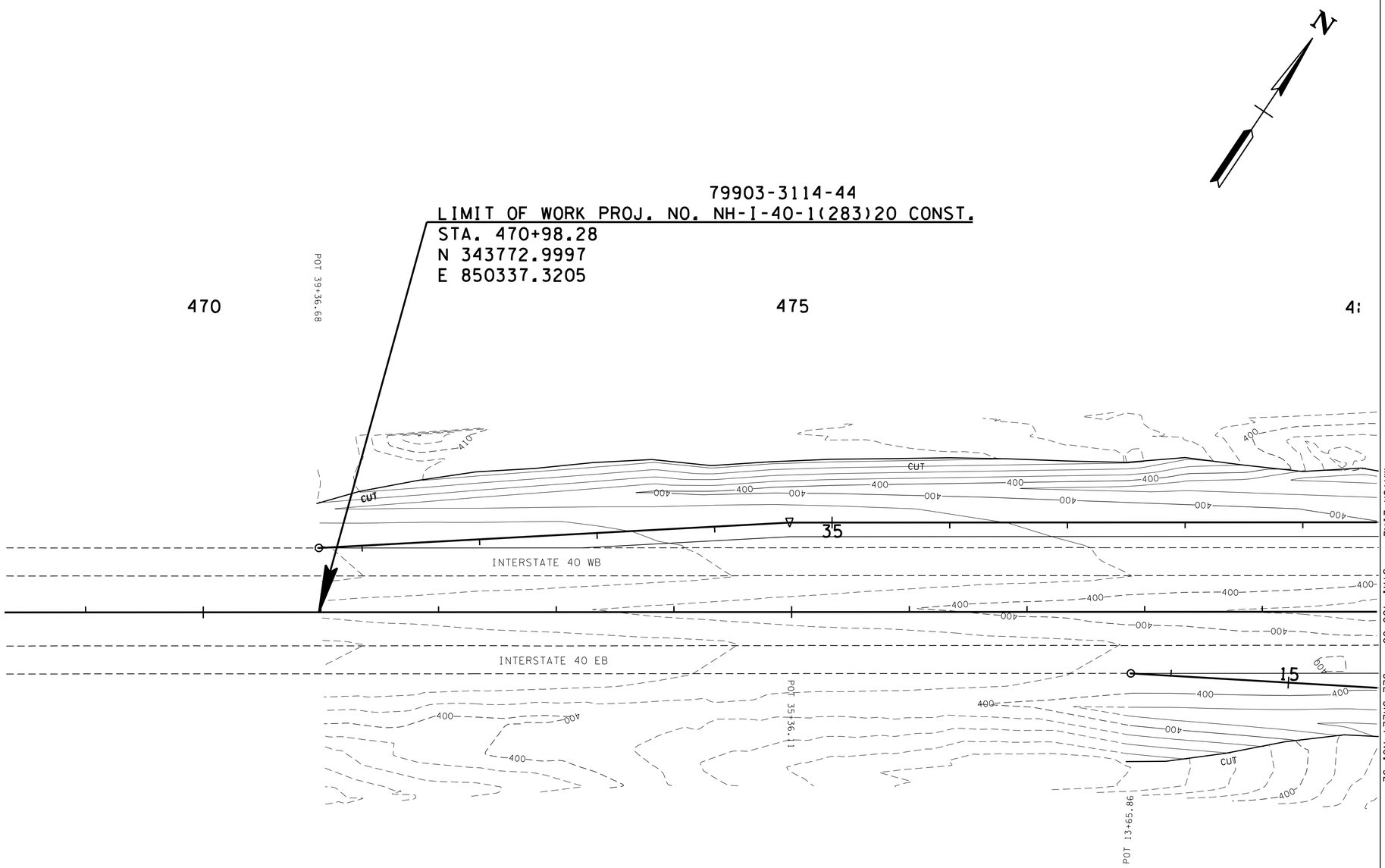
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

2/24/2014 1:46:49 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\030 SHCanadaRd PVT Drive Profiles SPU.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	31



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

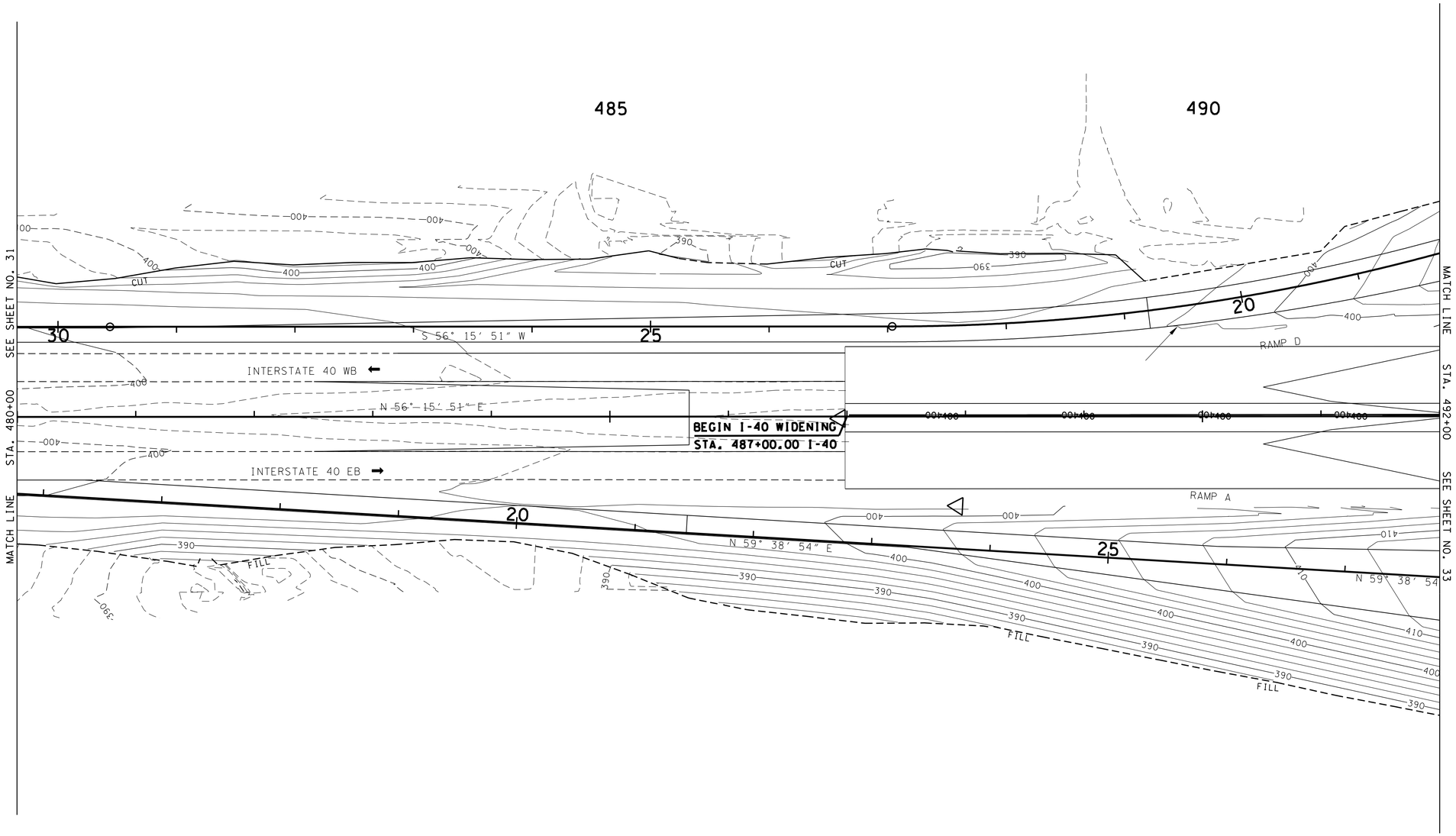
INTERCHANGE GRADING PLAN

B.O.P. TO STA. 480+00

SCALE: 1"=50'

2/24/2014 1:46:55 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\031SHCanaddaRd Interchange Grading Plan 1Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	32



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

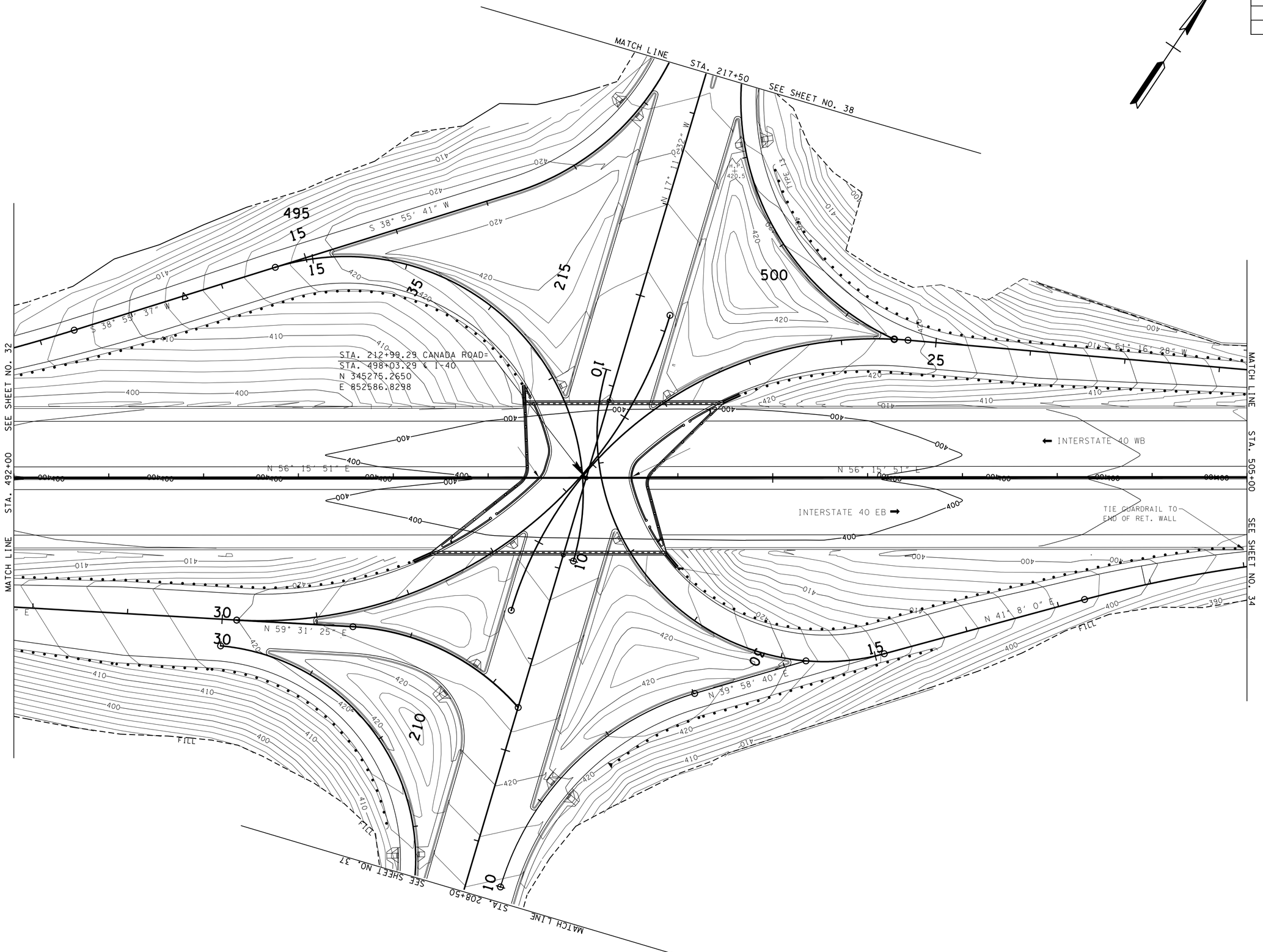
INTERCHANGE GRADING PLAN

STA. 480+00 TO STA. 492+00

SCALE: 1"=50'

2/24/2014 1:46:57 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\032 SHCanadaRd Interchange Grading Plan 2 Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	33



UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

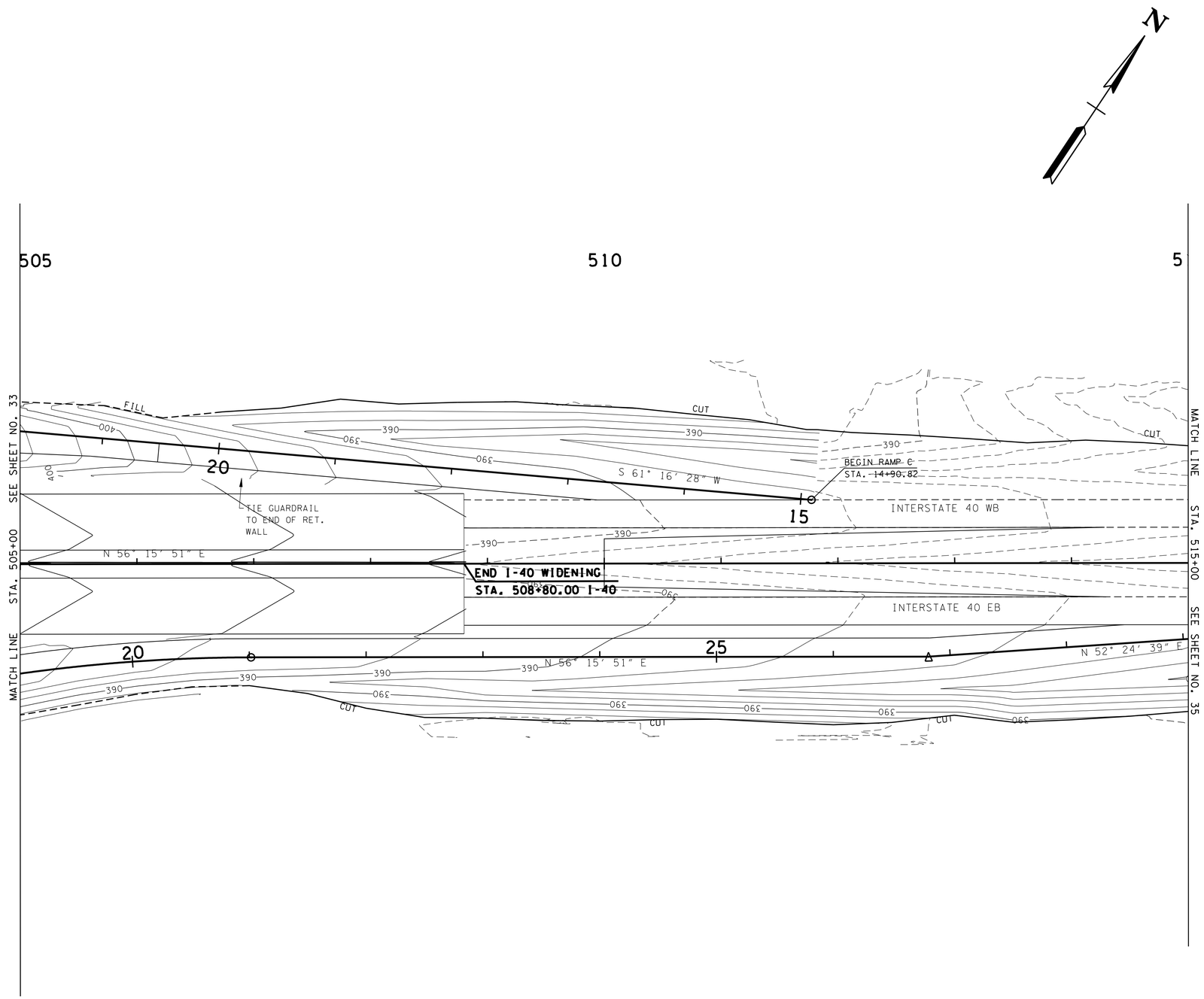
INTERCHANGE GRADING PLAN

STA. 492+00 TO STA. 505+00

SCALE: 1"=50'

2/24/2014 1:46:59 PM
k:\proj\tdot_canadard.7779_prelimplans\construction plans\033 SHCanadaRd Interchange Grading Plan 3 Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	34



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CHARLES ROBERT COCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104563
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

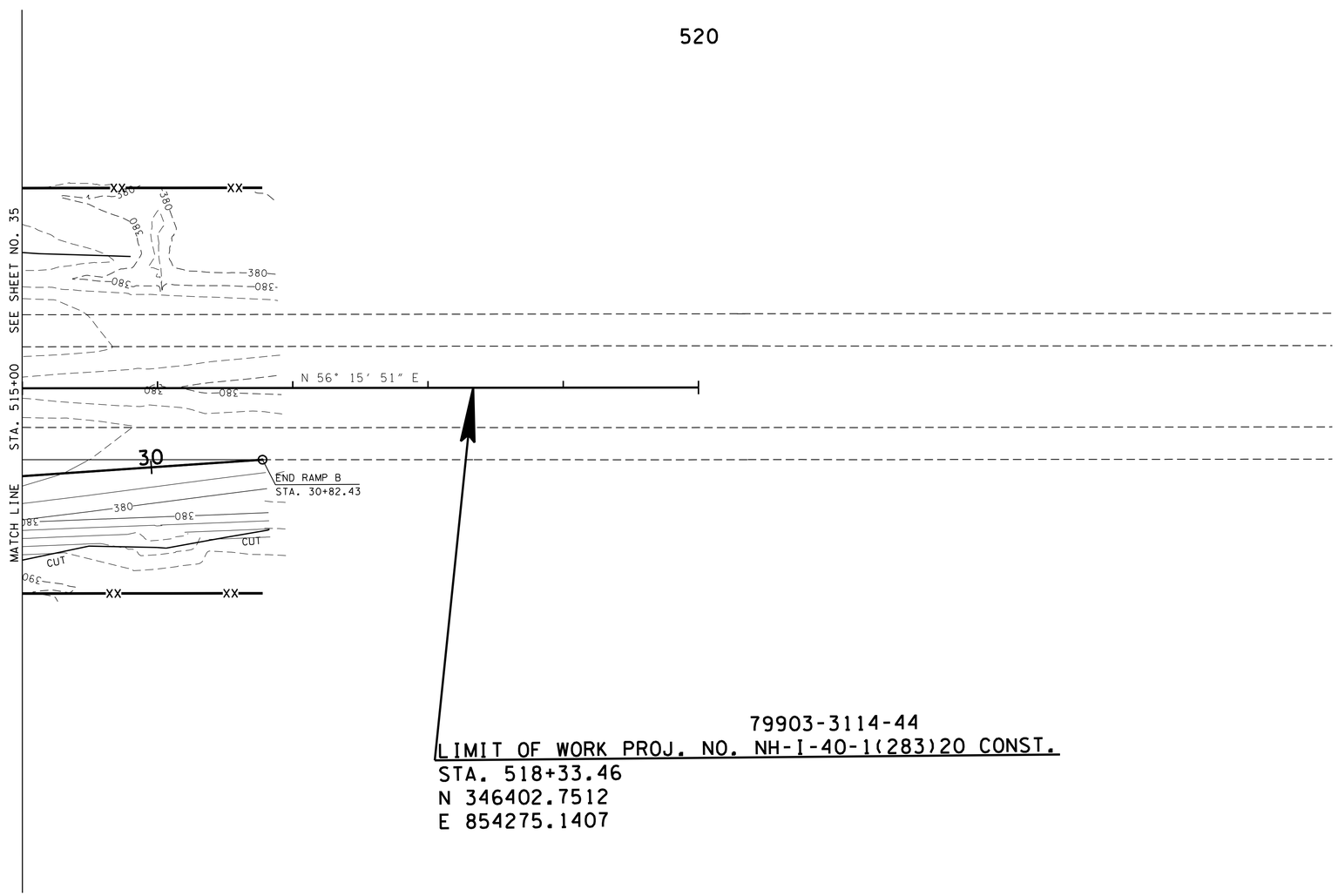
INTERCHANGE GRADING PLAN

STA. 505+00 TO STA. 515+00

SCALE: 1"=50'

2/24/2014 1:47:02 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\034 SHCanadaRd Interchange Grading Plan 4 Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	35



UNOFFICIAL SET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

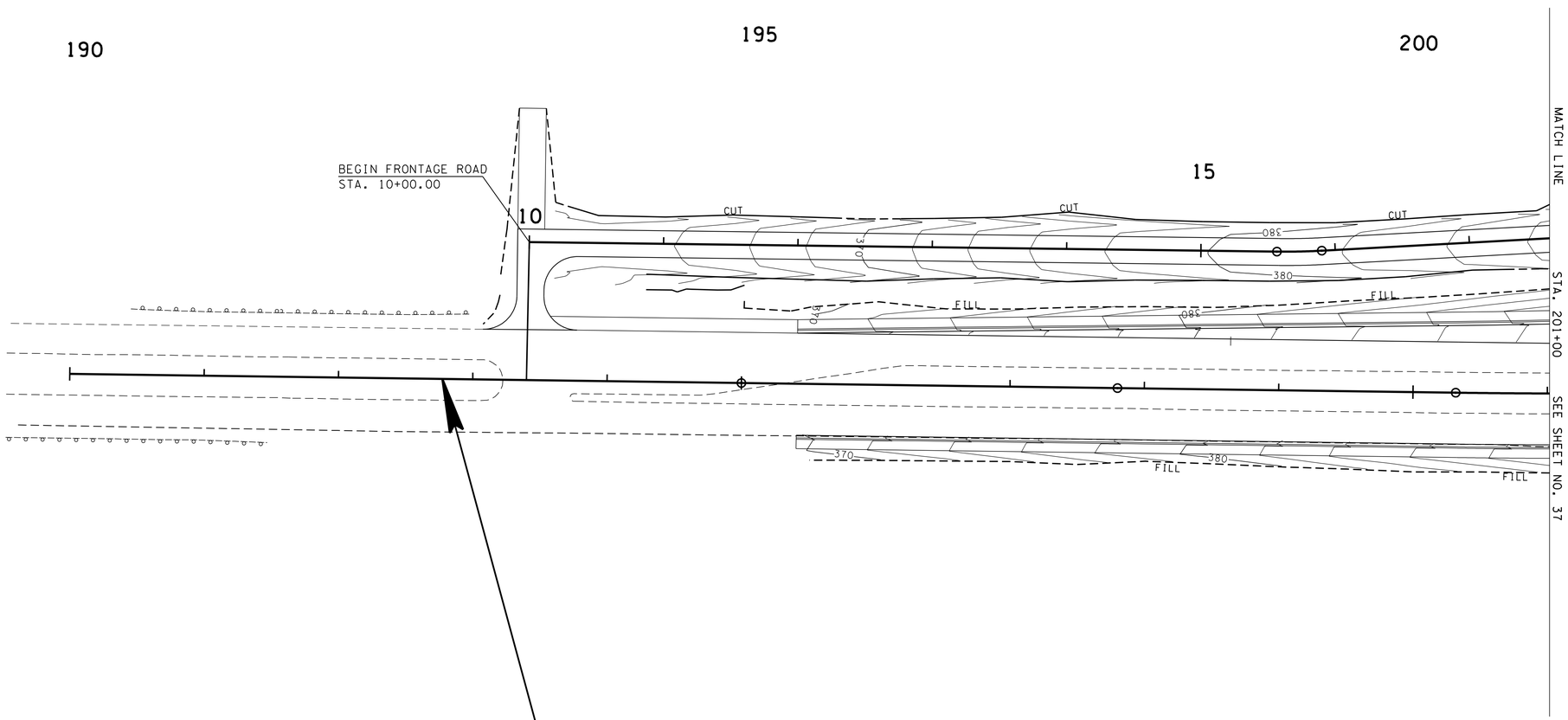
INTERCHANGE GRADING PLAN

STA. 515+00 TO E.O.P.

SCALE: 1"=50'

2/24/2014 1:47:04 PM
k:\proj\tdot_canadard.7779_prelimplans\construction plans\035 SHCanadaRd Interchange Grading Plan 5 Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	36



79903-3114-44
BEGIN PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 192+77.34
N 343315.4518
E 853076.0563

UNOFFICIAL SET

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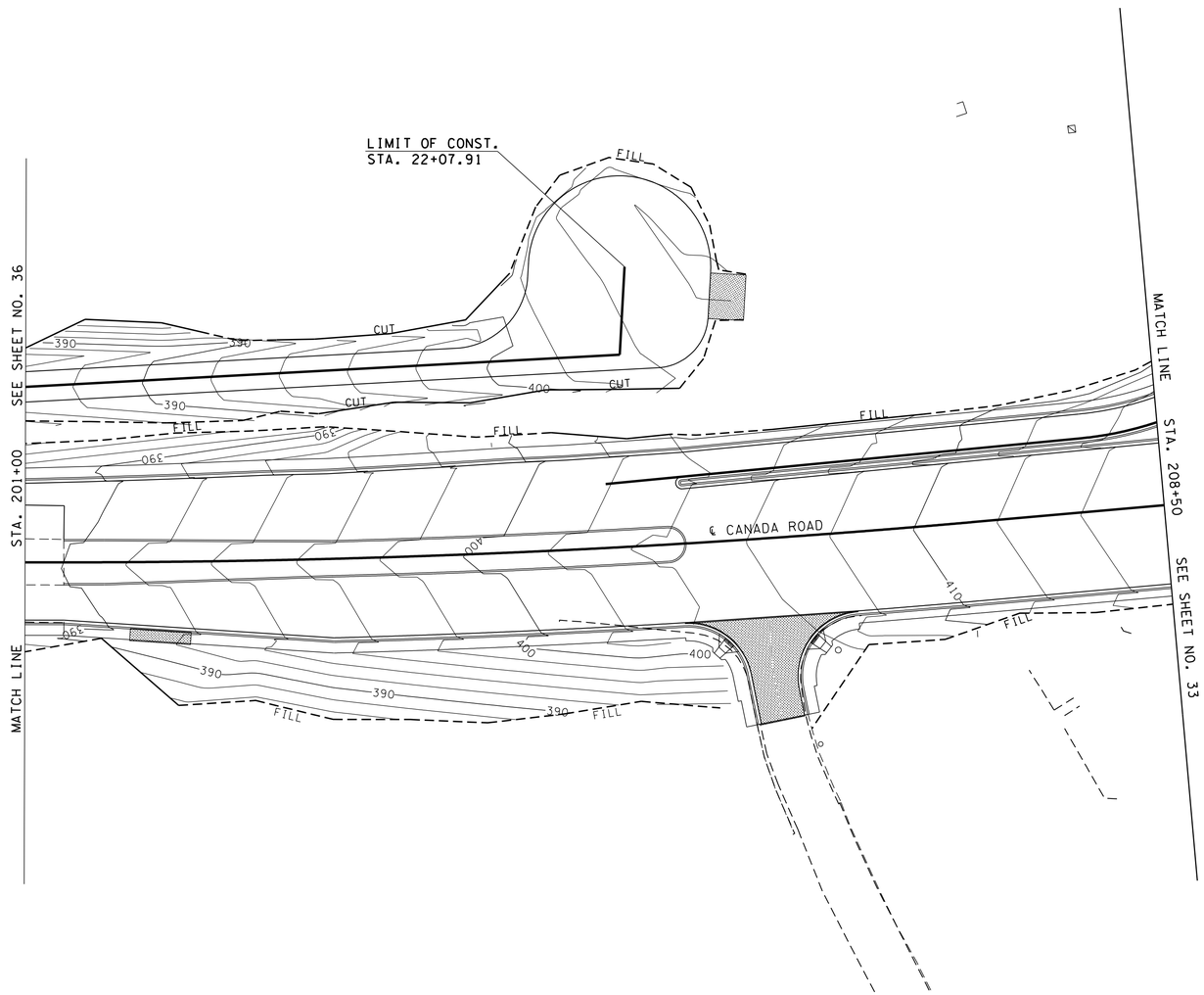
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INTERCHANGE GRADING PLAN

B.O.P. TO STA. 201+00
SCALE: 1"=50'

2/26/2014 11:12:05 AM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\036 SrCanadaRd Interchange Grading Plan 6 Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	37



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

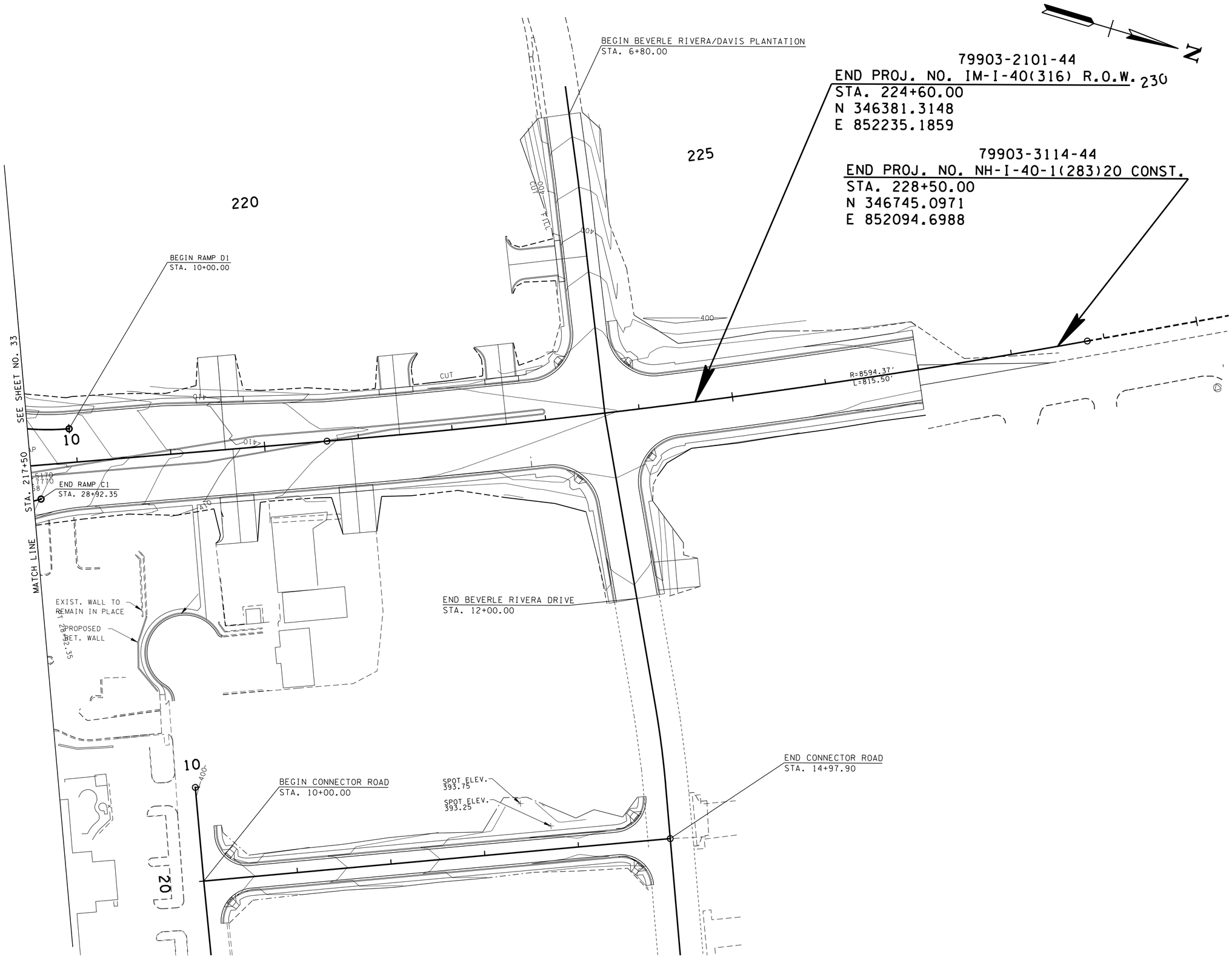
INTERCHANGE GRADING PLAN

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

2/24/2014 1:47:07 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\037 SHCanadaRd Interchange Grading Plan 7 Layout.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	38



UNOFFICIAL SET

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SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INTERCHANGE GRADING PLAN

STA. 217+50 TO E.O.P.

SCALE: 1"=50'

2/26/2014 11:18:51 AM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\038 SHCanadaRd Interchange Grading Plan & Layout.sht

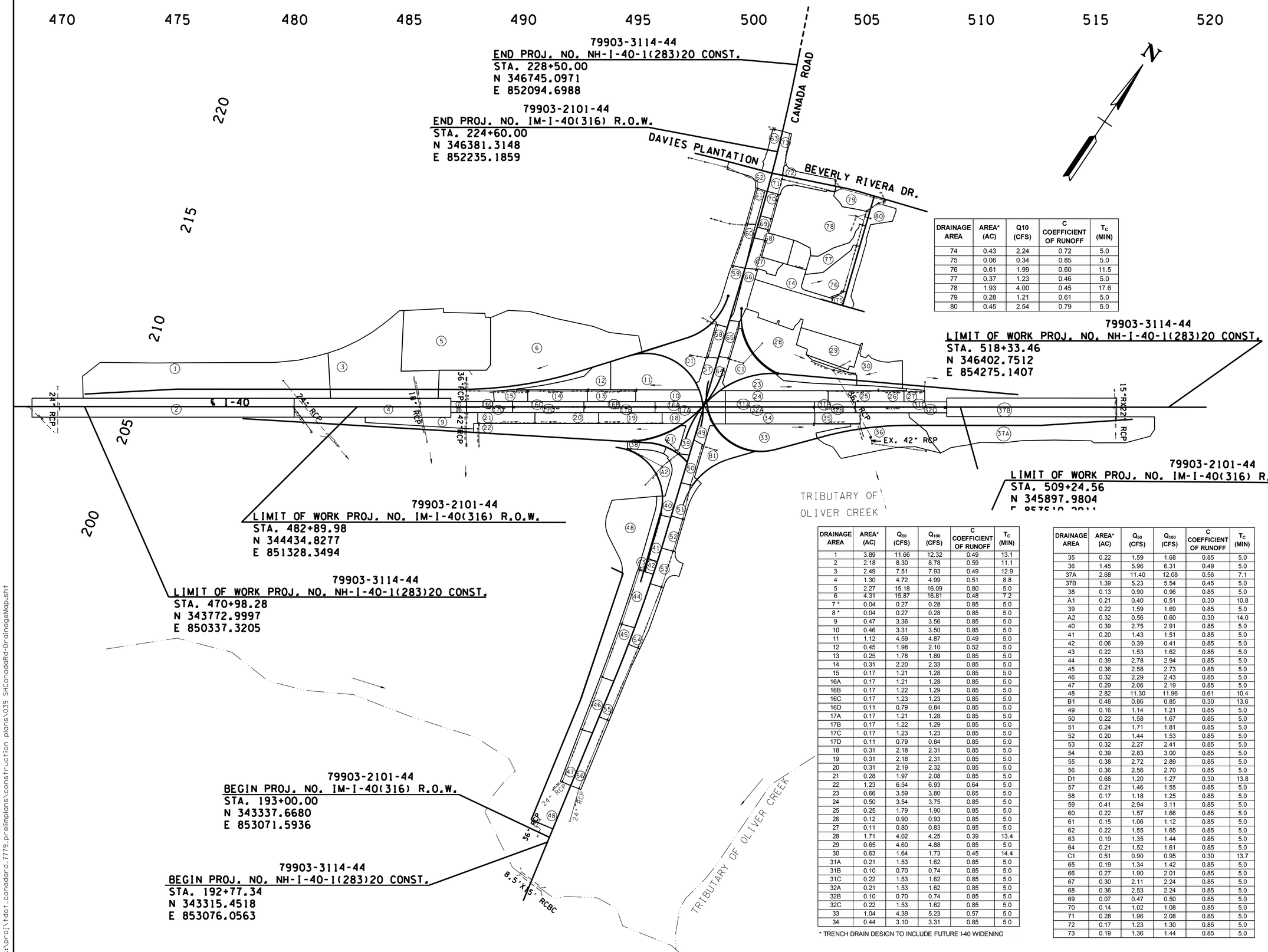
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM.	2011	NH-I-40-I(293)20	26
R.O.W.	2012	IM-40-I(316)	31
CONST.	2014	NH-I-40-I(283)20	39

SHELBY CO. I-40

REV. 11/30/2012 REVISED DRAINAGE TO REFLECT CHANGES IN THE ALIGNMENT AND PROFILE OF RAMP C1 AND TO THE TYPICAL SECTION OF CANADA ROAD. REVISED TABLE.

REV. 12/31/2012 REVISED STATION EQUATION AT BEVERLE RIVERA EXT. & BEVERLE BAY DRIVE.

REV. 05/17/2013 REVISED DRAINAGE AREAS, AREA CODES AND TABLES TO REFLECT NEW CONNECTOR ROAD ALIGNMENT.



DRAINAGE AREA	AREA* (AC)	Q10 (CFS)	C COEFFICIENT OF RUNOFF	T_C (MIN)
74	0.43	2.24	0.72	5.0
75	0.06	0.34	0.85	5.0
76	0.61	1.99	0.60	11.5
77	0.37	1.23	0.46	5.0
78	1.93	4.00	0.45	17.6
79	0.28	1.21	0.61	5.0
80	0.45	2.54	0.79	5.0

DRAINAGE AREA	AREA* (AC)	Q_{50} (CFS)	Q_{100} (CFS)	C COEFFICIENT OF RUNOFF	T_C (MIN)
1	3.89	11.66	12.32	0.49	13.1
2	2.18	8.30	8.78	0.59	11.1
3	2.49	7.51	7.93	0.49	12.9
4	1.30	4.72	4.99	0.51	8.8
5	2.27	15.18	16.09	0.80	5.0
6	4.31	15.87	16.81	0.48	7.2
7 *	0.04	0.27	0.28	0.85	5.0
8 *	0.04	0.27	0.28	0.85	5.0
9	0.47	3.36	3.56	0.85	5.0
10	0.46	3.31	3.50	0.85	5.0
11	1.12	4.59	4.87	0.49	5.0
12	0.45	1.98	2.10	0.52	5.0
13	0.25	1.78	1.89	0.85	5.0
14	0.31	2.20	2.33	0.85	5.0
15	0.17	1.21	1.28	0.85	5.0
16A	0.17	1.21	1.28	0.85	5.0
16B	0.17	1.22	1.29	0.85	5.0
16C	0.17	1.23	1.23	0.85	5.0
16D	0.11	0.79	0.84	0.85	5.0
17A	0.17	1.21	1.28	0.85	5.0
17B	0.17	1.22	1.29	0.85	5.0
17C	0.17	1.23	1.23	0.85	5.0
17D	0.11	0.79	0.84	0.85	5.0
18	0.31	2.18	2.31	0.85	5.0
19	0.31	2.18	2.31	0.85	5.0
20	0.31	2.19	2.32	0.85	5.0
21	0.28	1.97	2.08	0.85	5.0
22	1.23	6.54	6.93	0.64	5.0
23	0.66	3.59	3.80	0.65	5.0
24	0.50	3.54	3.75	0.85	5.0
25	0.25	1.79	1.90	0.85	5.0
26	0.12	0.90	0.93	0.85	5.0
27	0.11	0.80	0.83	0.85	5.0
28	1.71	4.02	4.25	0.39	13.4
29	0.65	4.60	4.88	0.85	5.0
30	0.63	1.64	1.73	0.45	14.4
31A	0.21	1.53	1.62	0.85	5.0
31B	0.10	0.70	0.74	0.85	5.0
31C	0.22	1.53	1.62	0.85	5.0
32A	0.21	1.53	1.62	0.85	5.0
32B	0.10	0.70	0.74	0.85	5.0
32C	0.22	1.53	1.62	0.85	5.0
33	1.04	4.39	5.23	0.57	5.0
34	0.44	3.10	3.31	0.85	5.0

* TRENCH DRAIN DESIGN TO INCLUDE FUTURE I-40 WIDENING

DRAINAGE AREA	AREA* (AC)	Q_{50} (CFS)	Q_{100} (CFS)	C COEFFICIENT OF RUNOFF	T_C (MIN)
35	0.22	1.59	1.68	0.85	5.0
36	1.45	5.96	6.31	0.49	5.0
37A	2.68	11.40	12.08	0.56	7.1
37B	1.39	5.23	5.54	0.45	5.0
38	0.13	0.90	0.96	0.85	5.0
A1	0.21	0.40	0.51	0.30	10.8
39	0.22	1.59	1.69	0.85	5.0
A2	0.32	0.56	0.60	0.30	14.0
40	0.39	2.75	2.91	0.85	5.0
41	0.20	1.43	1.51	0.85	5.0
42	0.06	0.39	0.41	0.85	5.0
43	0.22	1.53	1.62	0.85	5.0
44	0.39	2.78	2.94	0.85	5.0
45	0.36	2.58	2.73	0.85	5.0
46	0.32	2.29	2.43	0.85	5.0
47	0.29	2.06	2.19	0.85	5.0
48	2.82	11.30	11.96	0.61	10.4
B1	0.48	0.86	0.85	0.30	13.6
49	0.16	1.14	1.21	0.85	5.0
50	0.22	1.58	1.67	0.85	5.0
51	0.24	1.71	1.81	0.85	5.0
52	0.20	1.44	1.53	0.85	5.0
53	0.32	2.27	2.41	0.85	5.0
54	0.39	2.83	3.00	0.85	5.0
55	0.38	2.72	2.89	0.85	5.0
56	0.36	2.56	2.70	0.85	5.0
D1	0.68	1.20	1.27	0.30	13.8
57	0.21	1.46	1.55	0.85	5.0
58	0.17	1.18	1.25	0.85	5.0
59	0.41	2.94	3.11	0.85	5.0
60	0.22	1.57	1.66	0.85	5.0
61	0.15	1.06	1.12	0.85	5.0
62	0.22	1.55	1.65	0.85	5.0
63	0.19	1.35	1.44	0.85	5.0
64	0.21	1.52	1.61	0.85	5.0
C1	0.51	0.90	0.95	0.30	13.7
65	0.19	1.34	1.42	0.85	5.0
66	0.27	1.90	2.01	0.85	5.0
67	0.30	2.11	2.24	0.85	5.0
68	0.36	2.53	2.24	0.85	5.0
69	0.07	0.47	0.50	0.85	5.0
70	0.14	1.02	1.08	0.85	5.0
71	0.28	1.96	2.08	0.85	5.0
72	0.17	1.23	1.30	0.85	5.0
73	0.19	1.36	1.44	0.85	5.0

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DRAINAGE MAP

SCALE: 1"=200'

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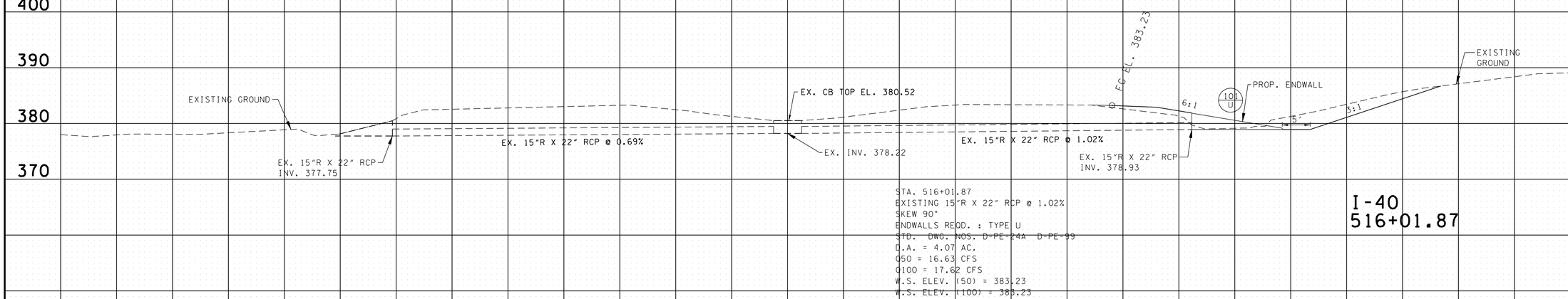
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	40

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



STA. 516+01.87
EXISTING 15"R X 22" RCP @ 1.02%
SKEW 90°
ENDWALLS REQD. : TYPE U
STD. DWG. NOS. D-PE-24A D-PE-99
D.A. = 4.07 AC.
Q50 = 16.63 CFS
Q100 = 17.62 CFS
W.S. ELEV. (50) = 383.23
W.S. ELEV. (100) = 383.23

I-40
516+01.87

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CULVERT CROSS-SECTIONS

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

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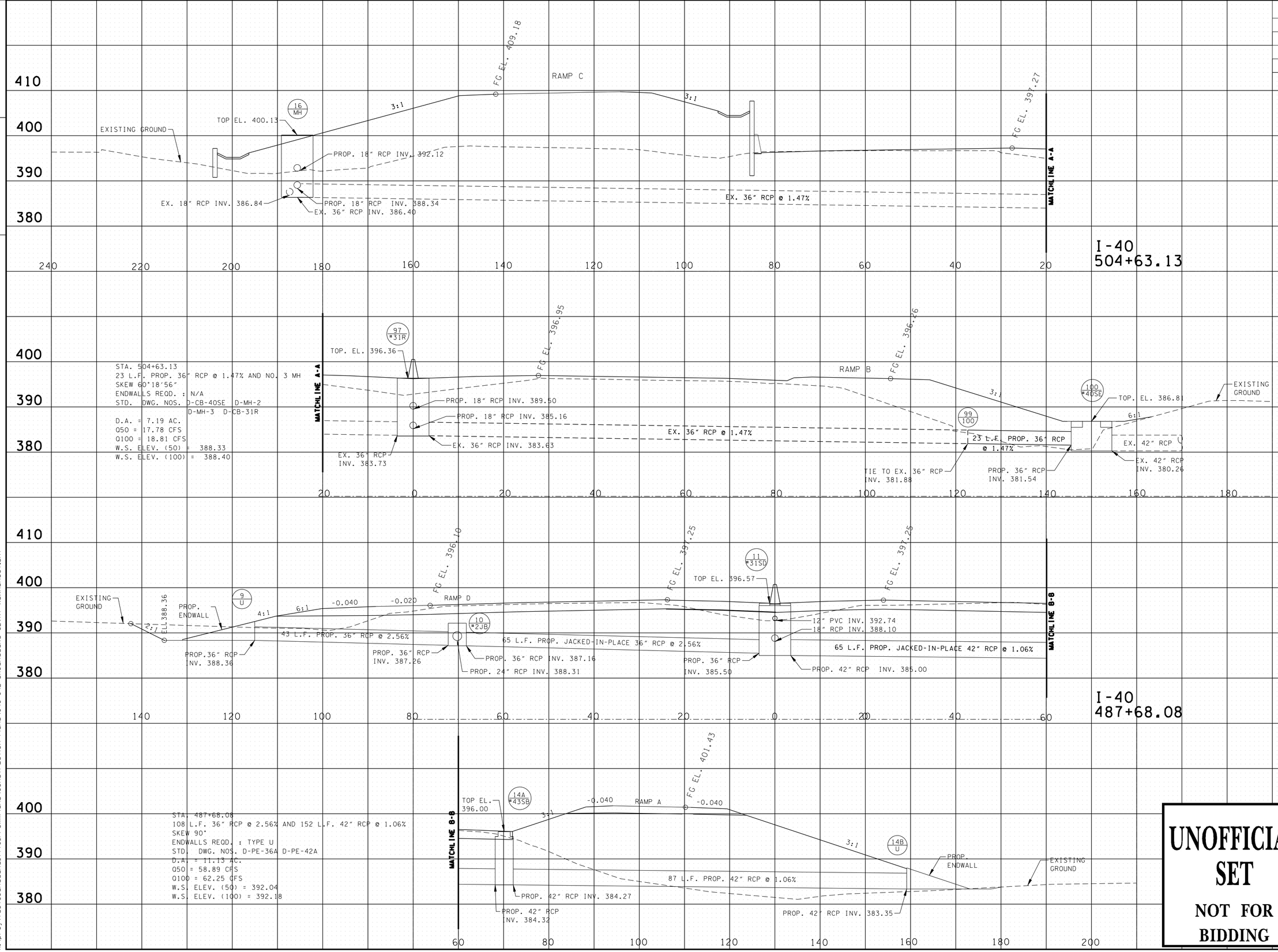
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	41

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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CULVERT CROSS-SECTIONS

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

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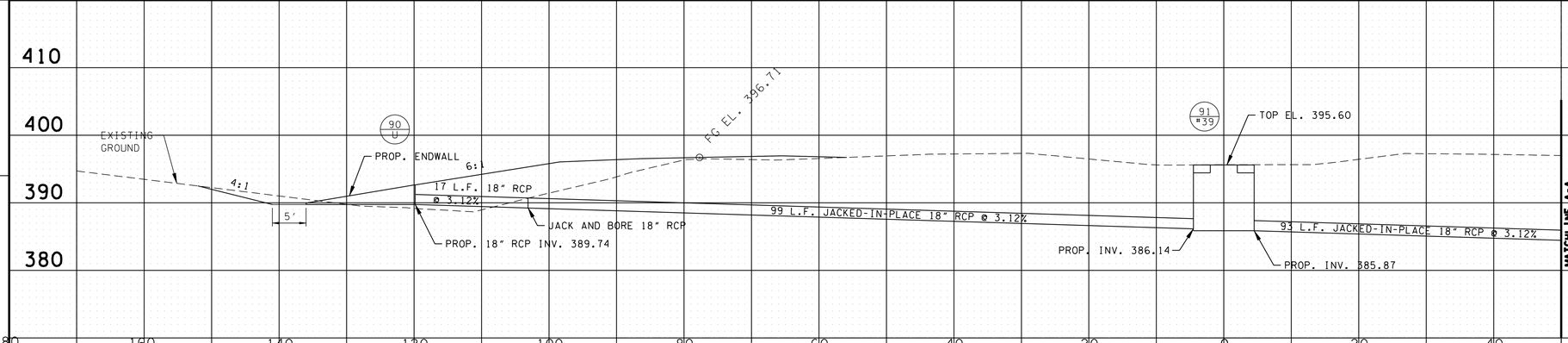
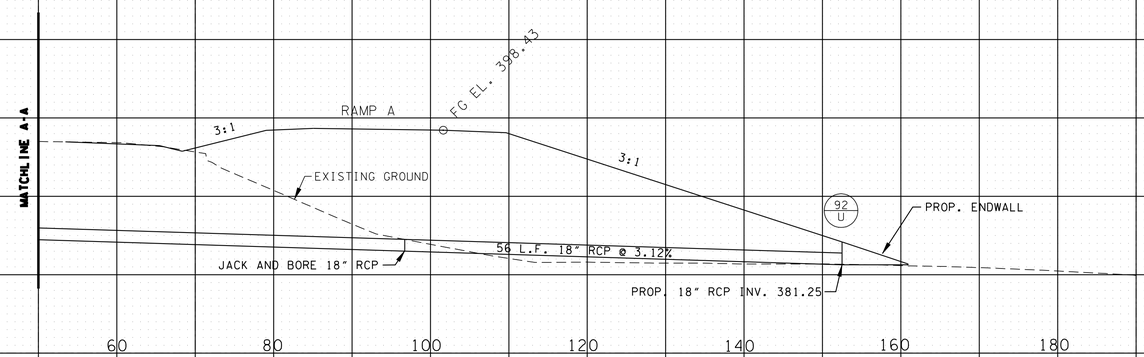
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	32
CONST.	2013	NH-I-40-1(283)20	42

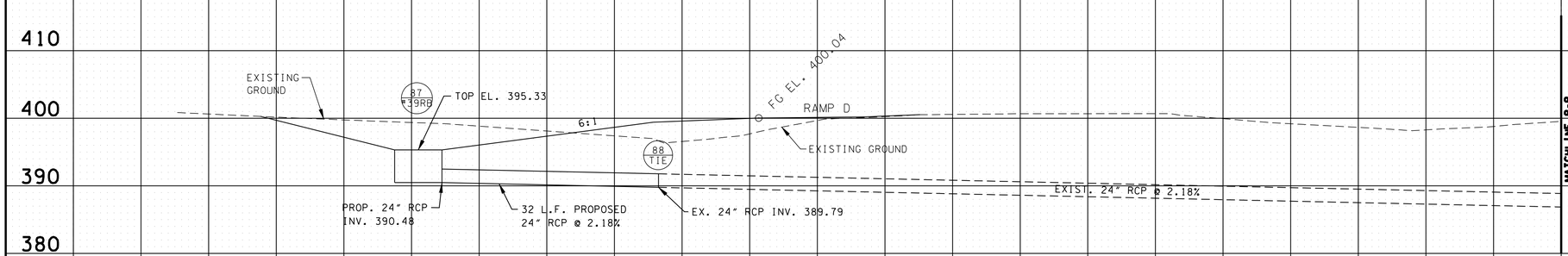
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

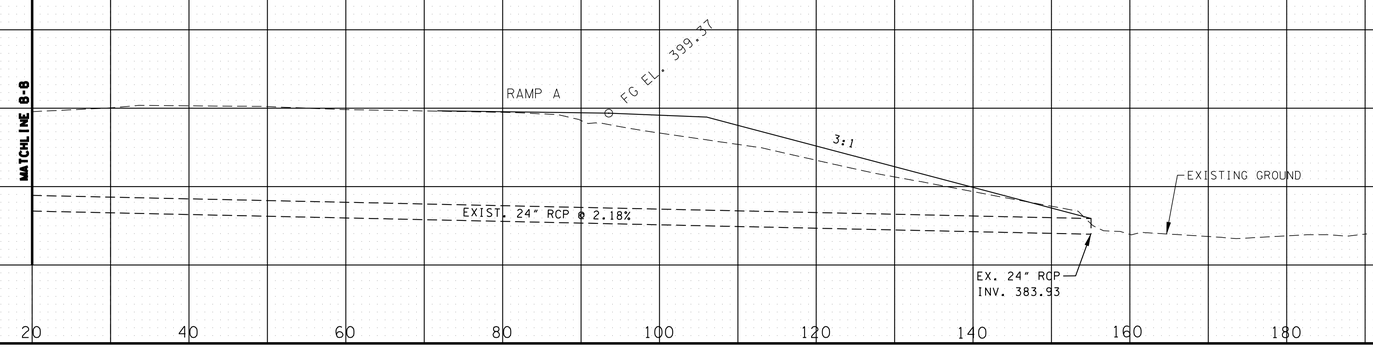


STA. 485+64.46
263 L.F. 18" RCP @ 3.12%
SKEW 77°59'52"
ENDWALLS REQD. : OVERSIZED TYPE "U"
STD. DWG. NOS. D-PE-24A D-PE-24B D-PE-99
D.A. = 3.79 AC.
Q50 = 12.23 CFS
Q100 = 12.93 CFS
W.S. ELEV. (50) = 392.66
W.S. ELEV. (100) = 392.88





STA. 480+62.14
32 L.F. 24" RCP @ 2.18%
SKEW 50°22'59"
CATCH BASIN REQD. : 39 RB
STD. DWG. NOS. D-CB-39RB
D.A. = 3.89 AC.
Q50 = 11.66 CFS
Q100 = 12.32 CFS
W.S. ELEV. (50) = 396.31
W.S. ELEV. (100) = 396.34



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CULVERT CROSS-SECTIONS

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	43

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

KNOWN EXCEPTIONAL TENNESSEE WATERS

(3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(4) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(5) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(6) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(7) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(8) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(9) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

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

(11) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

UTILITY RELOCATION

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

(13) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY

(14) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(15) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(16) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(17) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(18) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(19) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

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

(21) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

LITTER, DEBRIS, WASTE, PETROLEUM

(22) THE CONTRACTOR SHALL MAINTAIN A COMPLETE AND COMPREHENSIVE EROSION PREVENTION AND SEDIMENT CONTROL PLAN TO PREVENT ROADWAY AND/OR CONSTRUCTION SEDIMENT OR DEBRIS AND ANY PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, PAINTS OR COATINGS ETC. FROM FALLING ONTO THE RAILROAD'S RIGHTS-OF-WAY AND/OR FROM ENTERING THE DRAINAGE DITCHES OR DRAINAGE STRUCTURES OF THE RAILROAD, AND ANY SEDIMENT OR DEBRIS OR PETROLEUM BASED PRODUCTS OR CHLORINATED SOLVENTS, ETC. THAT DO ENTER SUCH DRAINAGE AREAS OF THE RAILROAD'S RIGHTS-OF-WAY ARE TO BE REMOVED IN ACCORDANCE WITH RULES SET FORTH BY _____ AND AT THE CONTRACTOR'S EXPENSE.

POLYACRYLAMIDE

(23) ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS:

(24) MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

(25) HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.

(26) MIXTURE IS NON-COMBUSTIBLE.

(27) CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

(28) PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

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EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	43A

(29) ALL VENDERS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES THAT THE PAM, PAM MIX, PAM BLEND EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF PAM ARE NOT ALLOWED FOR UNDER THIS GUIDELINE DUE TO THEIR HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUR TO SURFACTANT TOXICITY. CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR USE ON THIS PROJECT.

(30) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS ~~S~~DEMONSTRATING THAT A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

(31) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF A TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(32) PAM POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY ~~DILICA~~ SILICA SAND WILL AID IN SPREADING.

(33) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(34) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.	SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C		ENHANCED SILT FENCE CHECK (V-DITCH)	EC-STR-4A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6	A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A	2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
	CULVERT PROTECTION (TYPE 1)	EC-STR-11	1	CURB INLET PROTECTION (TYPE 1)	EC-STR-39
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A		TEMPORARY SLOPE DRAIN	EC-STR-27
	RIPRAP	EC-STR-27			
	TEMPORARY BERM	EC-STR-27			

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	115
209-02.04	10" TEMPORARY SLOPE DRAIN	L.F.	123
209-05	SEDIMENT REMOVAL	C.Y.	115
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	99
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	19950
209-08.04	TEMPORARY ENHANCED SILT FENCE	L.F.	50
209-08.05	ENHANCED SILT FENCE CHECK (V-DITCH)	EACH	12
209-08.07	ROCK CHECK DAM PER	EACH	22
209-08.08	ENHANCED ROCK CHECK DAM	EACH	27
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	10
209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH	64
209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	5
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	17
209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	38
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	354
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	106
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1030
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1747
740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	4350
801-01	SEEDING (WITH MULCH)	UNIT	90
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1650
801-03	WATER (SEEDING & SODDING)	M.G.	1135
803-01	SODDING (NEW SOD)	S.Y,	95360
805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	33380
806-02.03	PROJECT MOWING	CYCL	6

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EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	43B

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

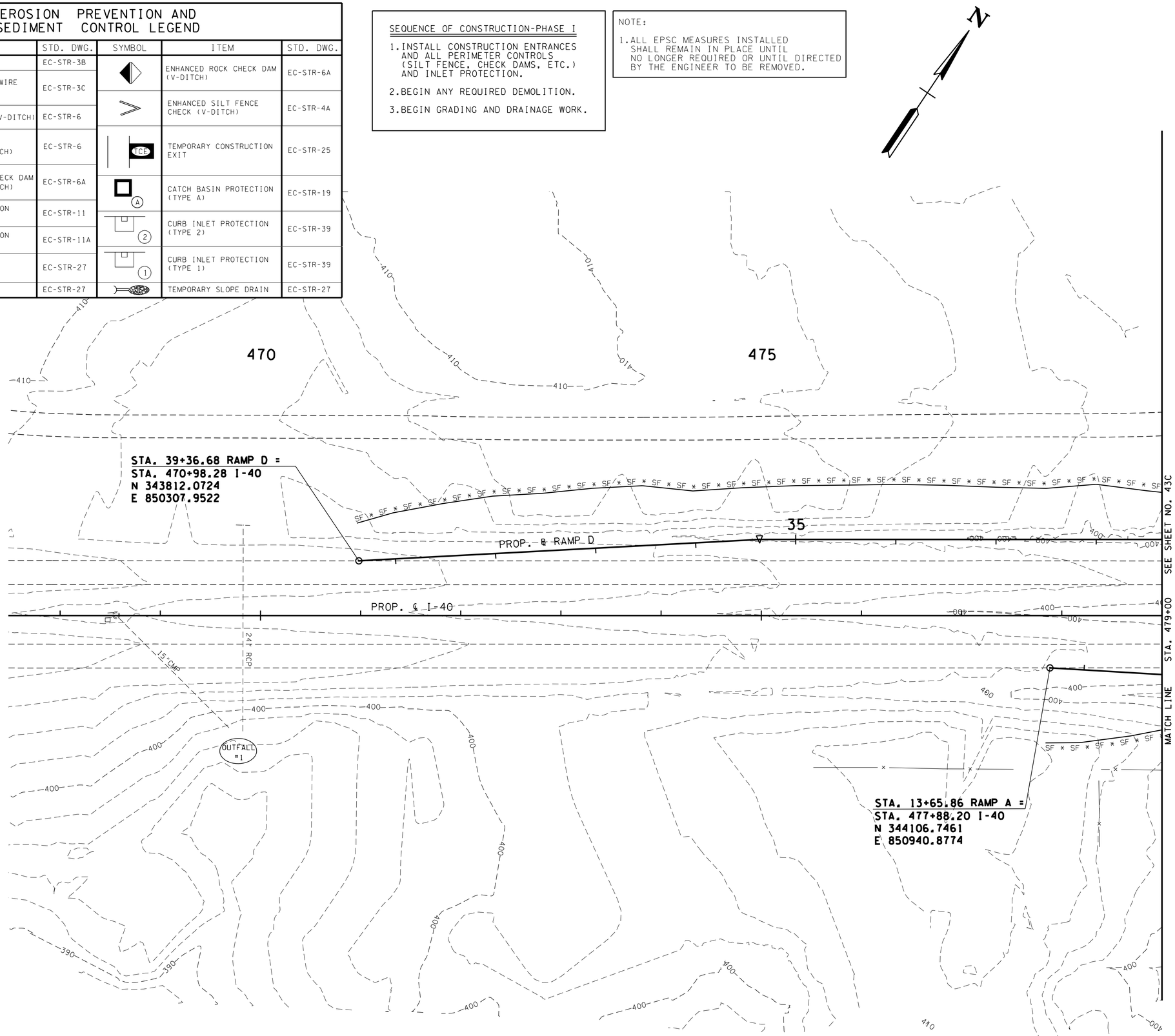
SYMBOL	ITEM	STD. DWG.	SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C		ENHANCED SILT FENCE CHECK (V-DITCH)	EC-STR-4A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6	A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A	2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
	CULVERT PROTECTION (TYPE 1)	EC-STR-11	1	CURB INLET PROTECTION (TYPE 1)	EC-STR-39
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A		TEMPORARY SLOPE DRAIN	EC-STR-27
	RIPRAP	EC-STR-27			
	TEMPORARY BERM	EC-STR-27			

SEQUENCE OF CONSTRUCTION-PHASE I

1. INSTALL CONSTRUCTION ENTRANCES AND ALL PERIMETER CONTROLS (SILT FENCE, CHECK DAMS, ETC.) AND INLET PROTECTION.
2. BEGIN ANY REQUIRED DEMOLITION.
3. BEGIN GRADING AND DRAINAGE WORK.

NOTE:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.



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EPSC PLAN
PHASE I

I-40 MAINLINE

B.O.P. TO STA.479+00

SCALE: 1"=50'

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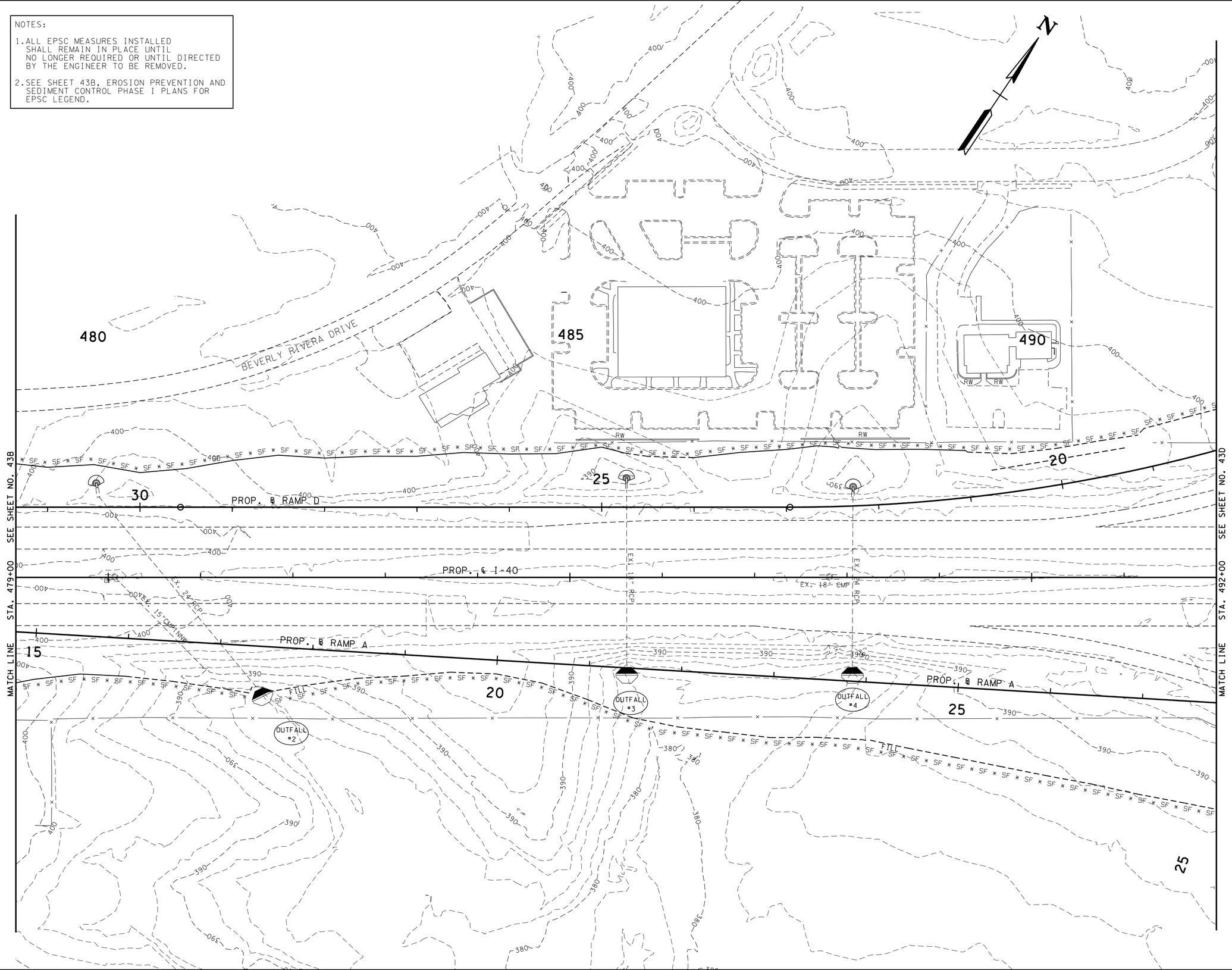
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 43B, EROSION PREVENTION AND SEDIMENT CONTROL PHASE I PLANS FOR EPSC LEGEND.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	33
CONST.	2014	NH-I-40-1(283)20	43C

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING CONDITIONS.



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AGRICULTURE
No. 104563
STATE OF TENNESSEE

STATE OF TENNESSEE
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EPSC PLAN
PHASE I

I-40 MAINLINE

STA.479+00 TO STA.492+00

SCALE: 1"=50'

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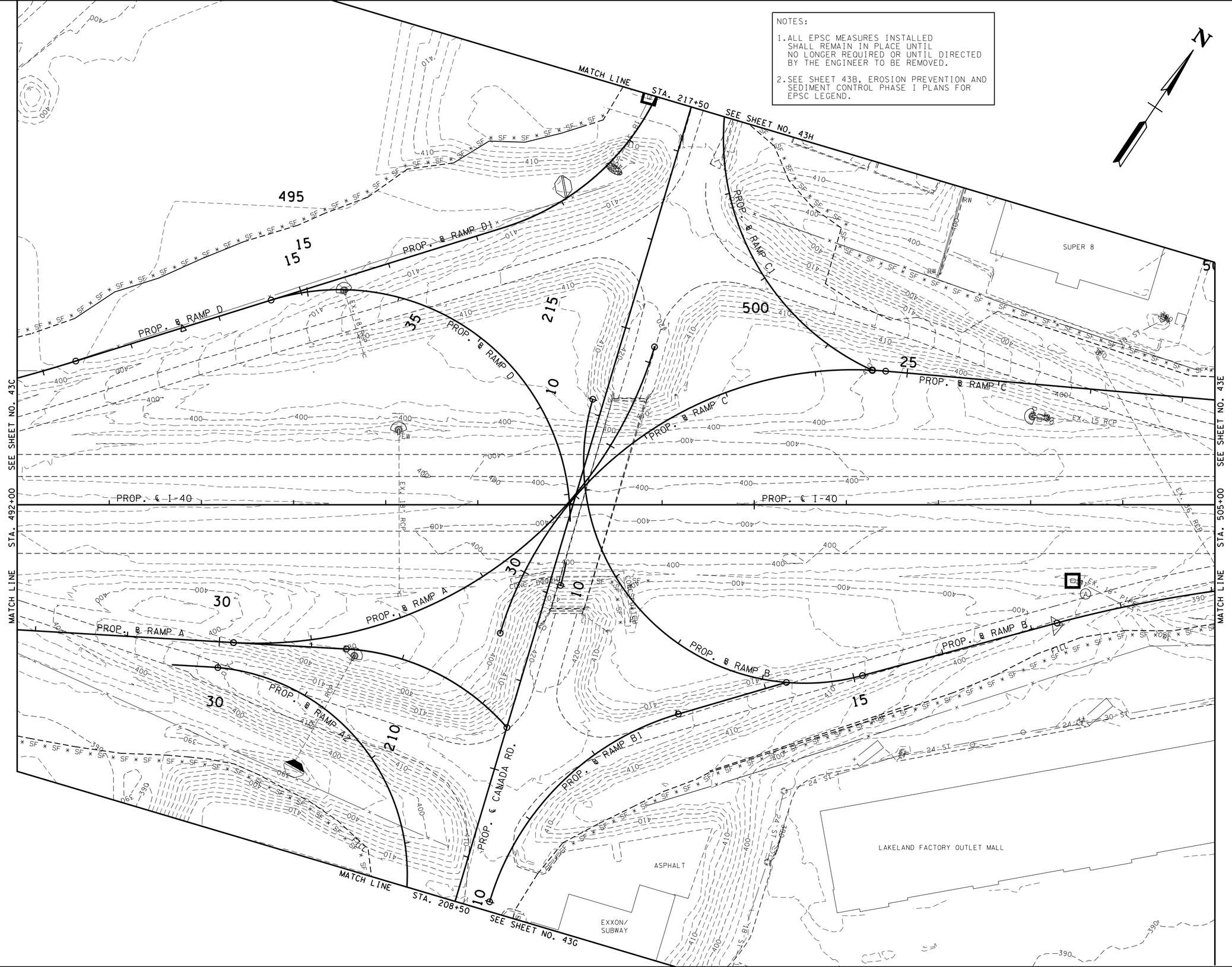
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	34
CONST.	2014	NH-I-40-1(283)20	43D

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 43B, EROSION PREVENTION AND SEDIMENT CONTROL PHASE I PLANS FOR EPSC LEGEND.

REV. 11-30/2012 REVISED SILT FENCE LOCATION ON TRACT 8 TO REFLECT CHANGES TO RAMP C1.

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING CONDITIONS.



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EPSC PLAN PHASE I

I-40 MAINLINE

492+00 TO STA. 505+00

SCALE: 1"=50'

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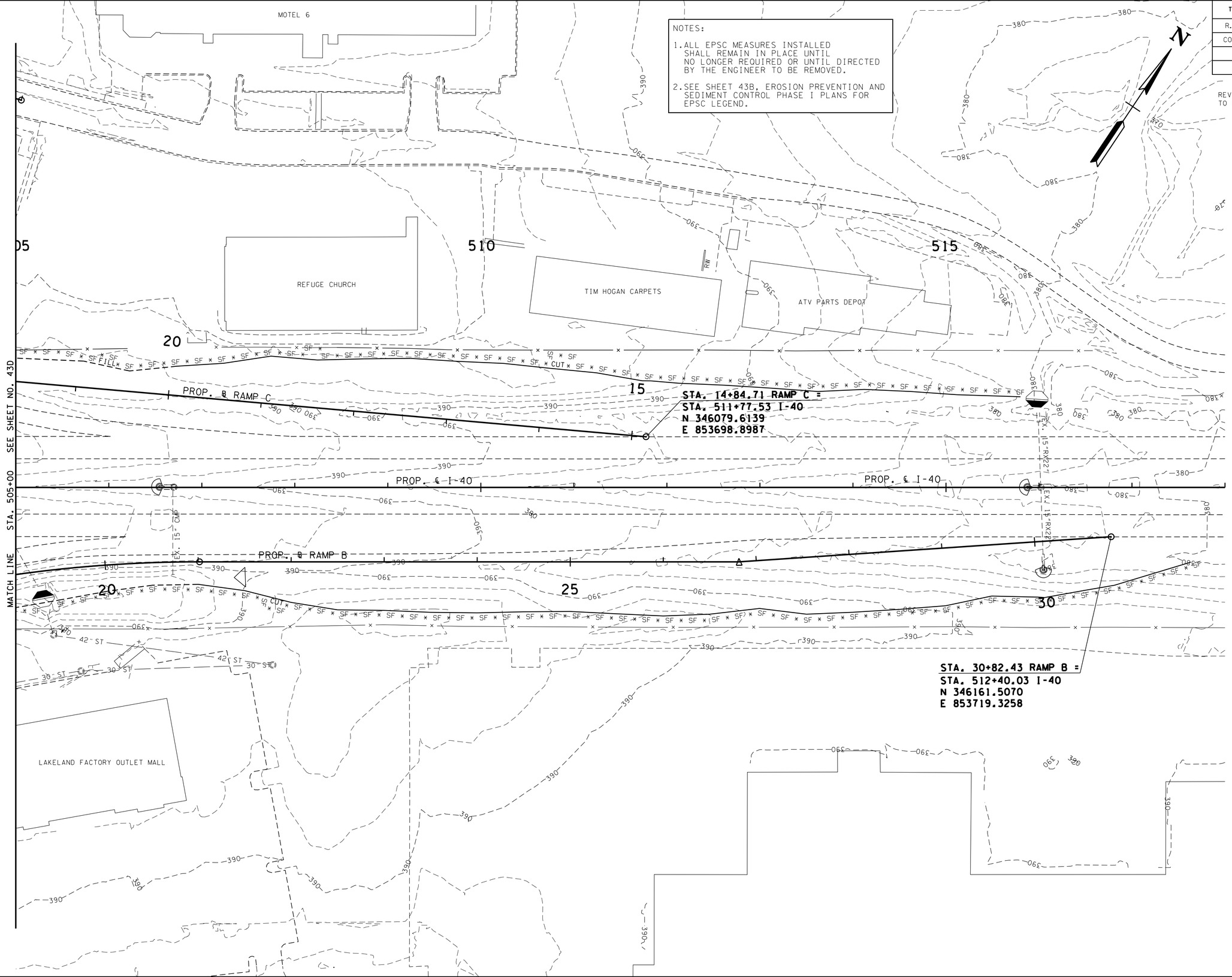
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	35
CONST.	2014	NH-I-40-1(283)20	43E

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 43B, EROSION PREVENTION AND SEDIMENT CONTROL PHASE I PLANS FOR EPSC LEGEND.

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING CONDITIONS.



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EPSC PLAN PHASE I

I-40 -MAINLINE

505+00 TO STA. E.O.P.

SCALE: 1"=50'

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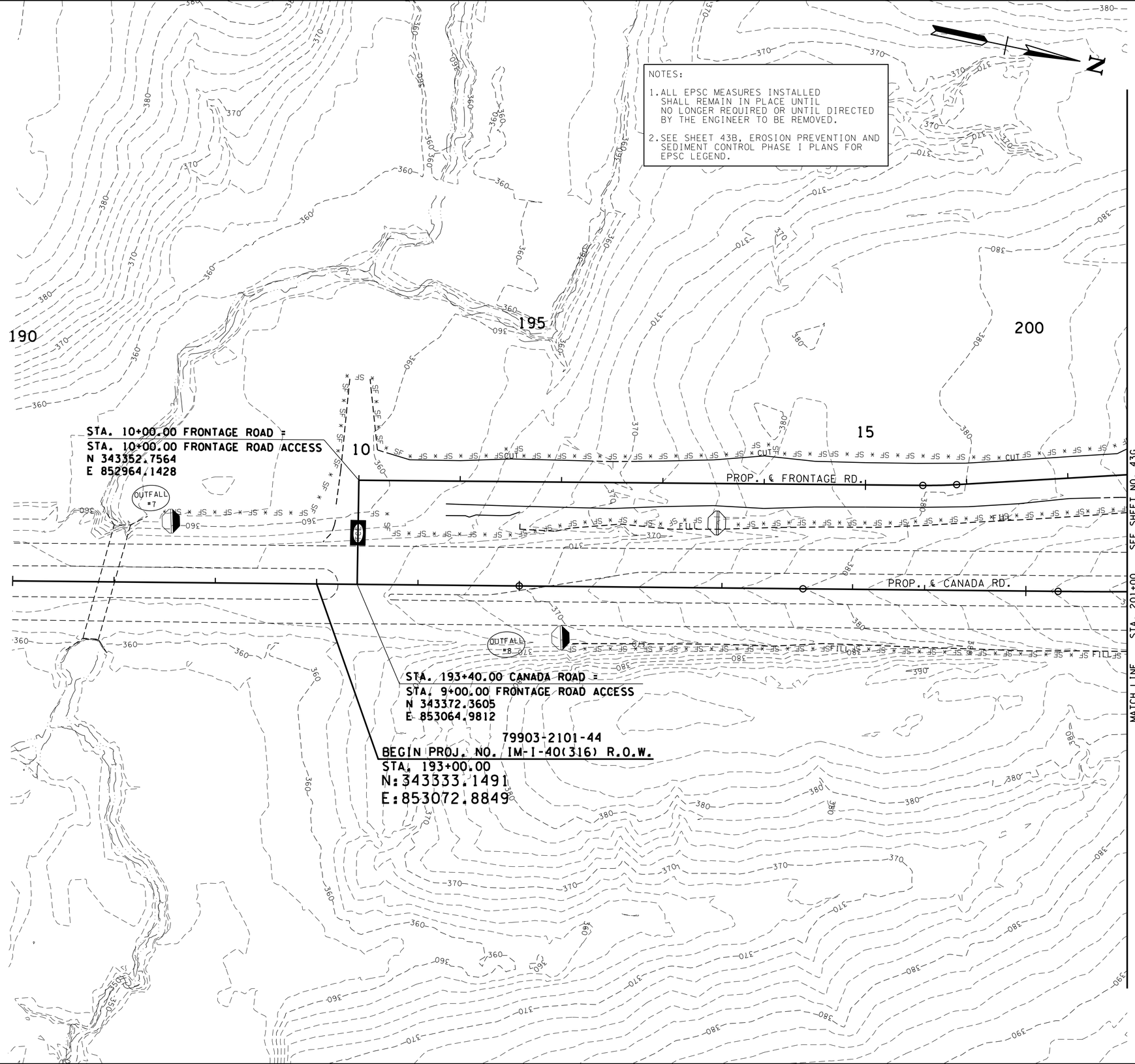
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	36
CONST.	2014	NH-I-40-1(283)20	43F

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING CONDITIONS.

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 43B, EROSION PREVENTION AND SEDIMENT CONTROL PHASE I PLANS FOR EPSC LEGEND.



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EPSC PLAN PHASE I

CANADA ROAD

B.O.P. TO STA. 201+00

SCALE: 1"=50'

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NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 43B, EROSION PREVENTION AND SEDIMENT CONTROL PHASE I PLANS FOR EPSC LEGEND.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	37
CONST.	2014	NH-I-40-1(283)20	43G

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING CONDITIONS.

REV. 11/29/2013 REVISED EPSC MEASURES TO REFLECT REVISED FRONTAGE ROAD ALIGNMENT AND LAYOUT.

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EPSC PLAN PHASE I

CANADA ROAD

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	38
CONST.	2014	NH-I-40-1(283)20	43H

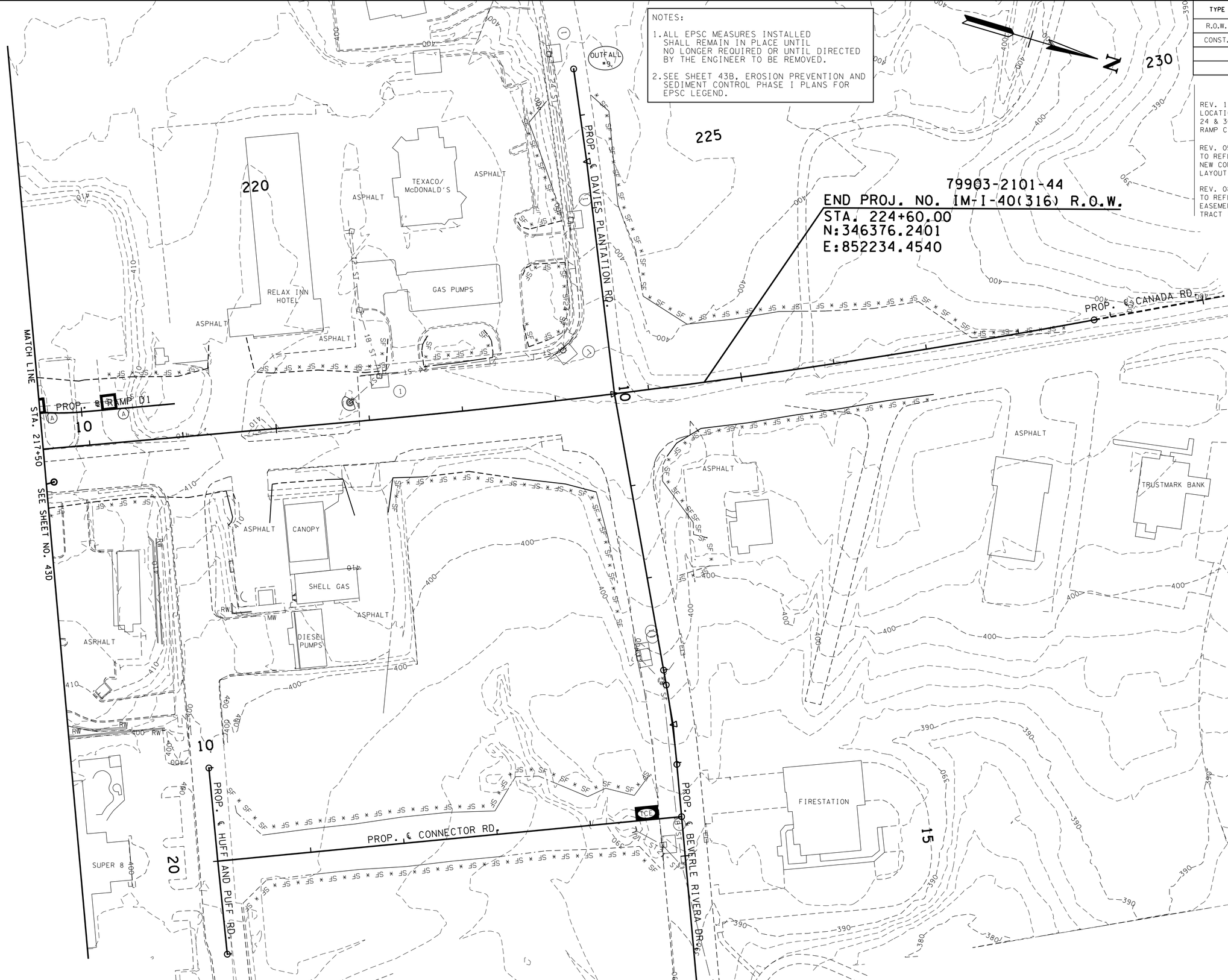
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 43B, EROSION PREVENTION AND SEDIMENT CONTROL PHASE I PLANS FOR EPSC LEGEND.

REV. 11/30/2012 REVISED SILT FENCE LOCATION ON TRACTS 7, 8, 14, 16, 24 & 30 TO REFLECT CHANGES TO RAMP C1.

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING CONDITIONS. ADDED NEW CONNECTOR ROAD ALIGNMENT AND LAYOUT.

REV. 08/18/2013 REVISED EPSC MEASURES TO REFLECT CHANGES MADE TO THE EASEMENTS AND DRIVEWAYS ON TRACT 16 AND TRACT 30.



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EPSC PLAN PHASE I

CANADA ROAD

STA. 217+50 TO 224+60

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	44

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

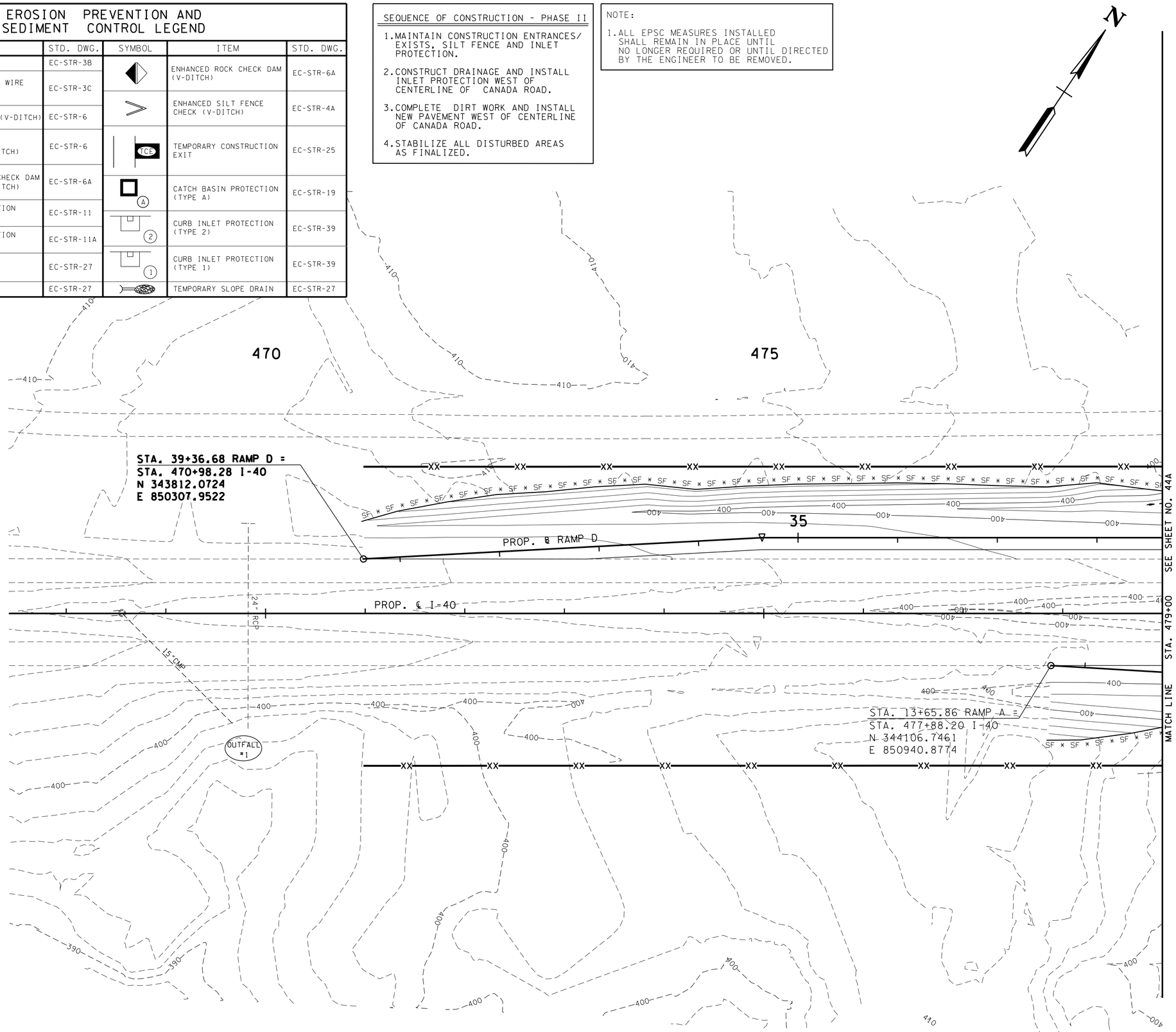
SYMBOL	ITEM	STD. DWG.	SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C		ENHANCED SILT FENCE CHECK (V-DITCH)	EC-STR-4A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6	A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A	2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
	CULVERT PROTECTION (TYPE 1)	EC-STR-11	1	CURB INLET PROTECTION (TYPE 1)	EC-STR-39
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A		TEMPORARY SLOPE DRAIN	EC-STR-27
	RIPRAP	EC-STR-27			
	TEMPORARY BERM	EC-STR-27			

SEQUENCE OF CONSTRUCTION - PHASE II

1. MAINTAIN CONSTRUCTION ENTRANCES/ EXISTS, SILT FENCE AND INLET PROTECTION.
2. CONSTRUCT DRAINAGE AND INSTALL INLET PROTECTION WEST OF CENTERLINE OF CANADA ROAD.
3. COMPLETE DIRT WORK AND INSTALL NEW PAVEMENT WEST OF CENTERLINE OF CANADA ROAD.
4. STABILIZE ALL DISTURBED AREAS AS FINALIZED.

NOTE:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.



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EPSC PLAN PHASE II

I-40 MAINLINE

B.O.P. TO STA.479+00

SCALE: 1"=50'

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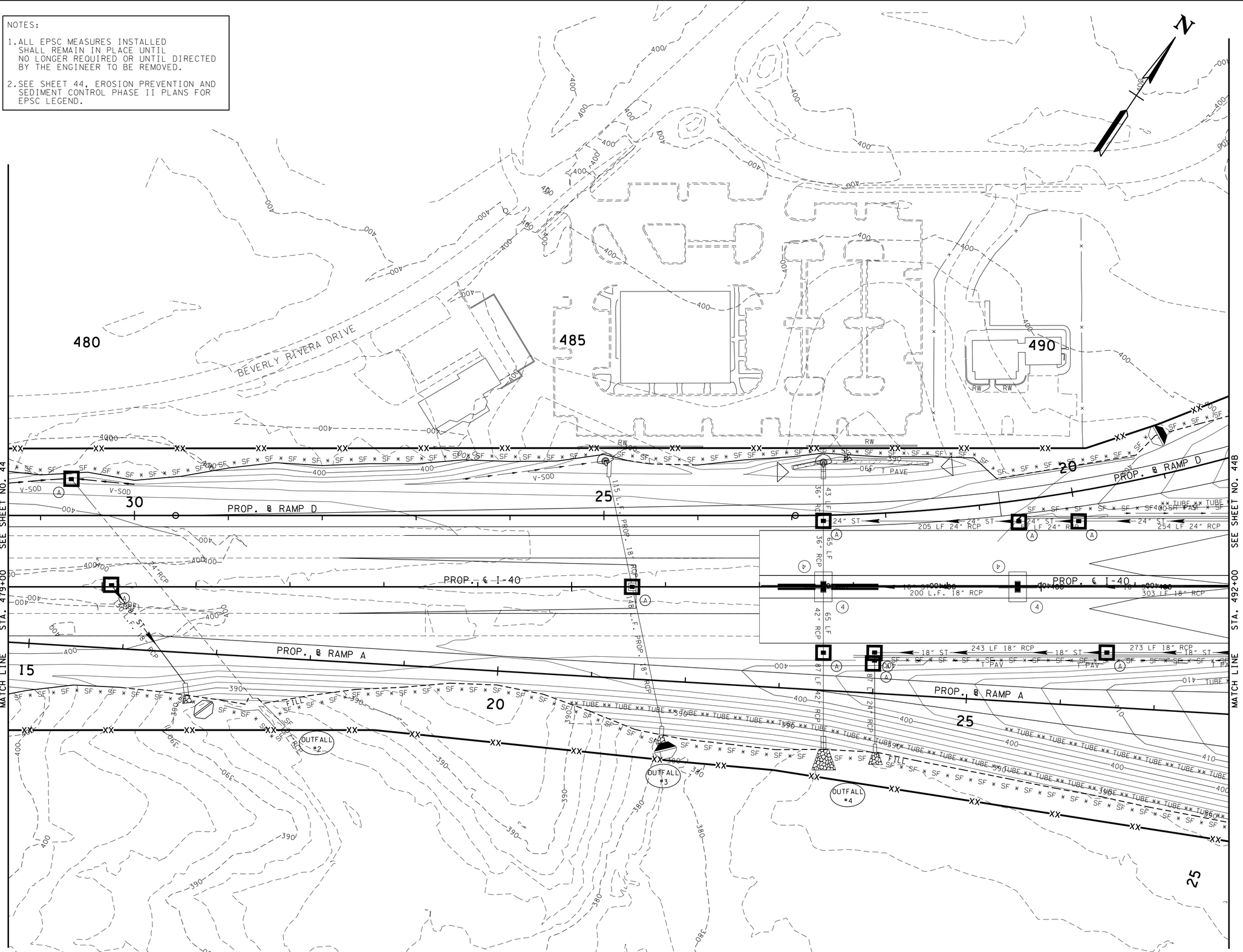
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	40
CONST.	2014	NH-I-40-1(283)20	44A

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 44, EROSION PREVENTION AND SEDIMENT CONTROL PHASE II PLANS FOR EPSC LEGEND.



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EPSC PLAN PHASE II

I-40 MAINLINE

STA.479+00 TO STA.492+00

SCALE: 1"=50'

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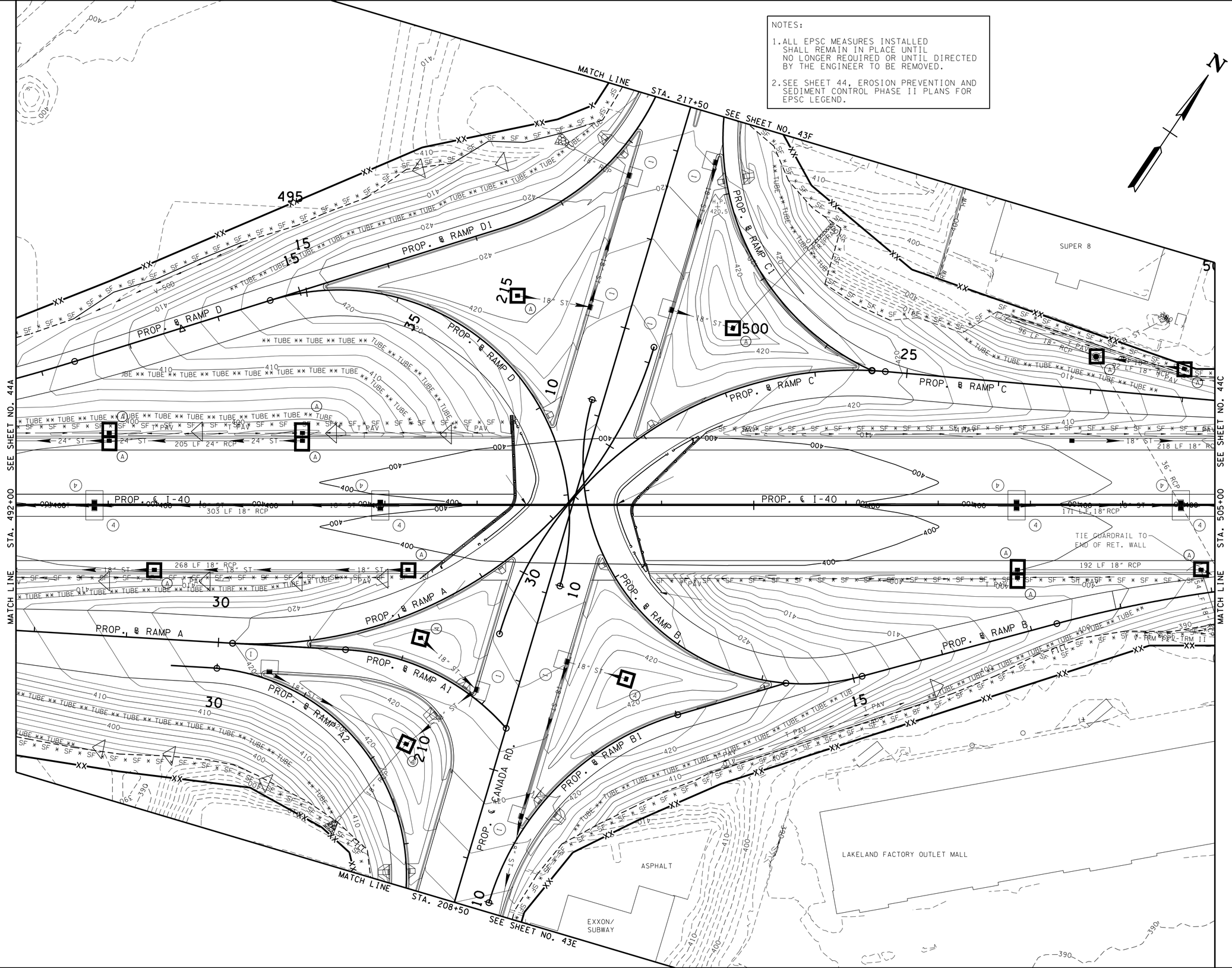
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	41
CONST.	2014	NH-I-40-1(283)20	44B

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 44, EROSION PREVENTION AND SEDIMENT CONTROL PHASE II PLANS FOR EPSC LEGEND.

REV. 11/30/2012 REVISED SILT FENCE LOCATION ON TRACTS 7, 8, 14, 16, 24 & 30 TO REFLECT CHANGES TO RAMP C1. REVISED CONTOURS TO REFLECT CHANGES TO THE ALIGNMENTS AND TYPICAL SECTIONS.



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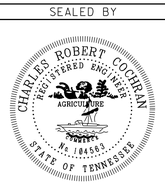

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN PHASE II

I-40 MAINLINE

492+00 TO STA. 505+00

SCALE: 1"=50'

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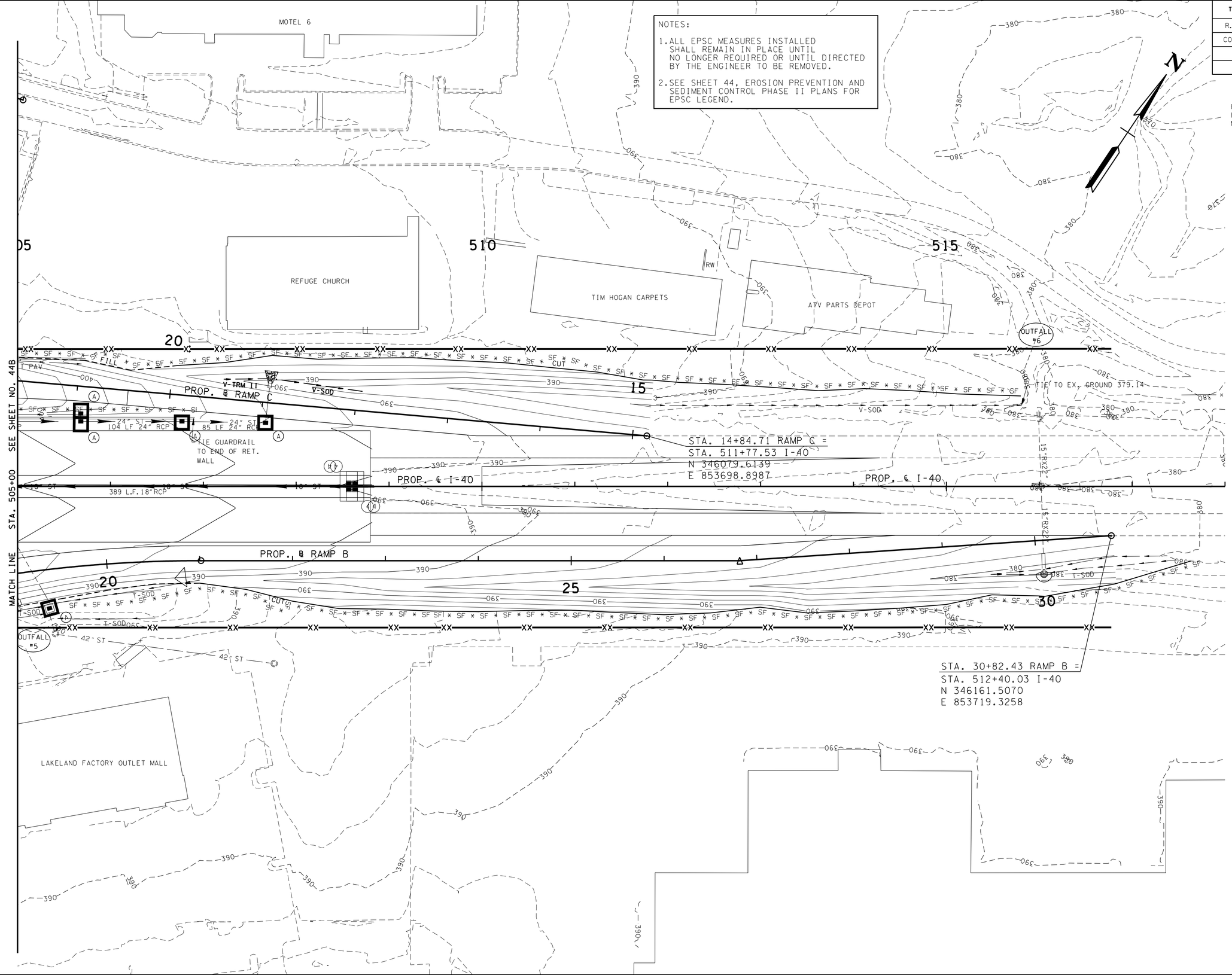
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	42
CONST.	2014	NH-I-40-1(283)20	44C

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 44. EROSION PREVENTION AND SEDIMENT CONTROL PHASE II PLANS FOR EPSC LEGEND.

REV. 05/17/2013 REMOVED BEVERLE BAY DRIVE ALIGNMENT AND EPSC MEASURES



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EPSC PLAN PHASE II

I-40 MAINLINE

505+00 TO STA. E.O.P.

SCALE: 1"=50'

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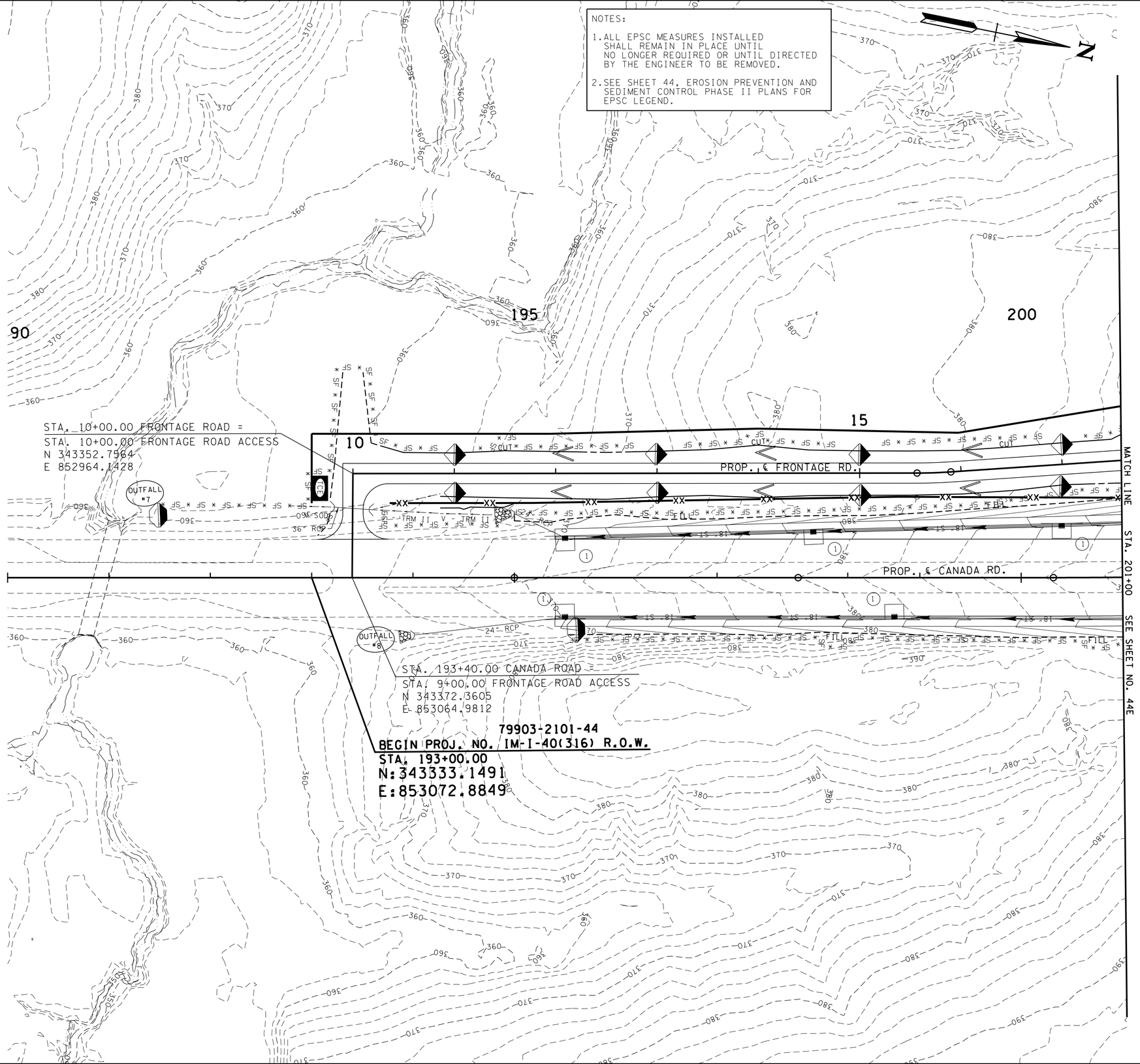
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	43
CONST.	2014	NH-I-40-1(283)20	44D

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 44, EROSION PREVENTION AND SEDIMENT CONTROL PHASE II PLANS FOR EPSC LEGEND.



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EPSC PLAN
PHASE II

CANADA ROAD

B.O.P. TO STA. 201+00

SCALE: 1"=50'

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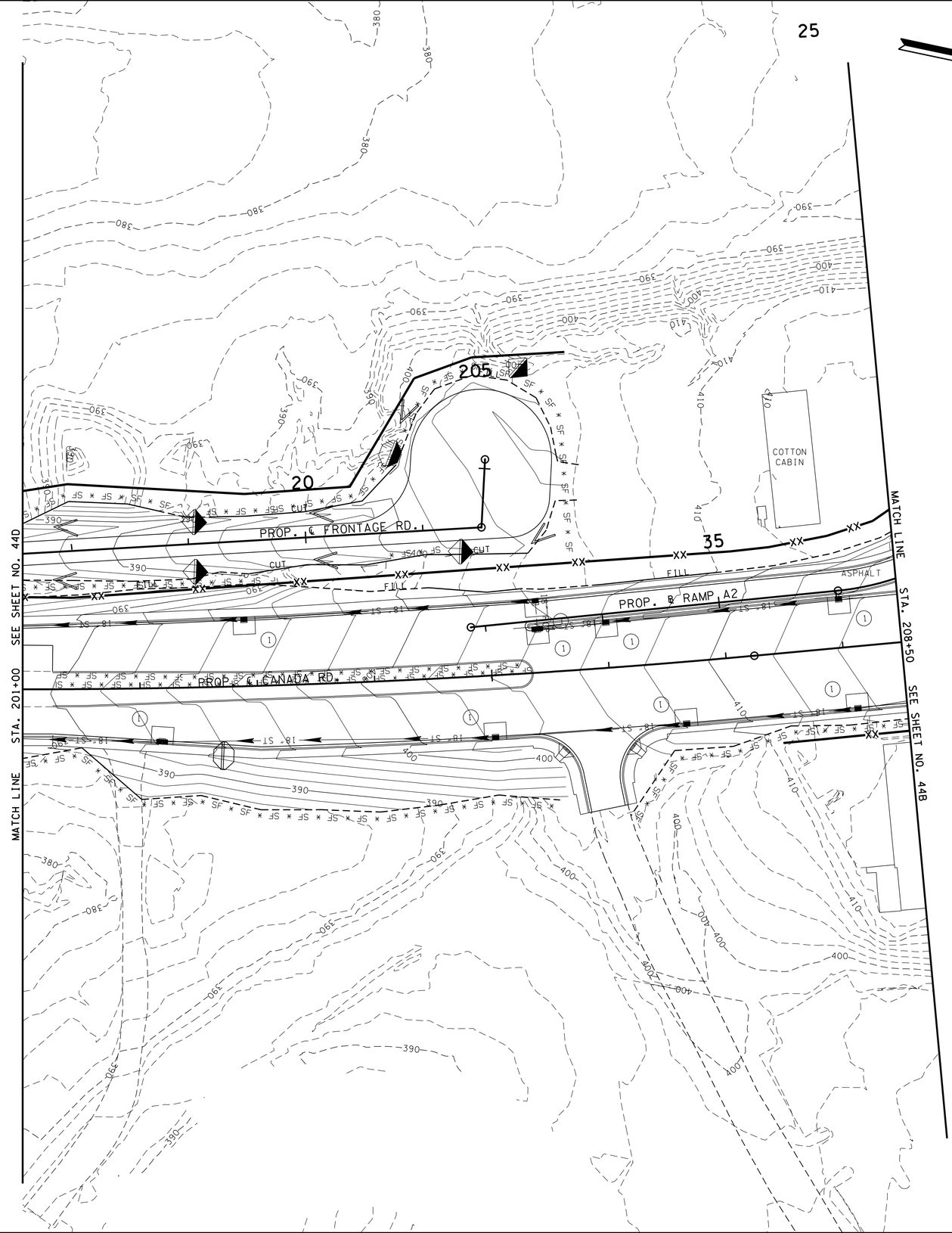
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 44, EROSION PREVENTION AND SEDIMENT CONTROL PHASE II PLANS FOR EPSC LEGEND.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	44
CONST.	2014	NH-I-40-1(283)20	44E

REV. 05/17/2013 ADDED MEASURES TO EXISTING FIELD ENTRANCE.

REV. 11/29/2013 REVISED EPSC MEASURES TO REFLECT REVISED FRONTAGE ROAD ALIGNMENT AND LAYOUT.

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EPSC PLAN PHASE II

CANADA ROAD

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	45
CONST.	2014	NH-I-40-1(283)20	44F

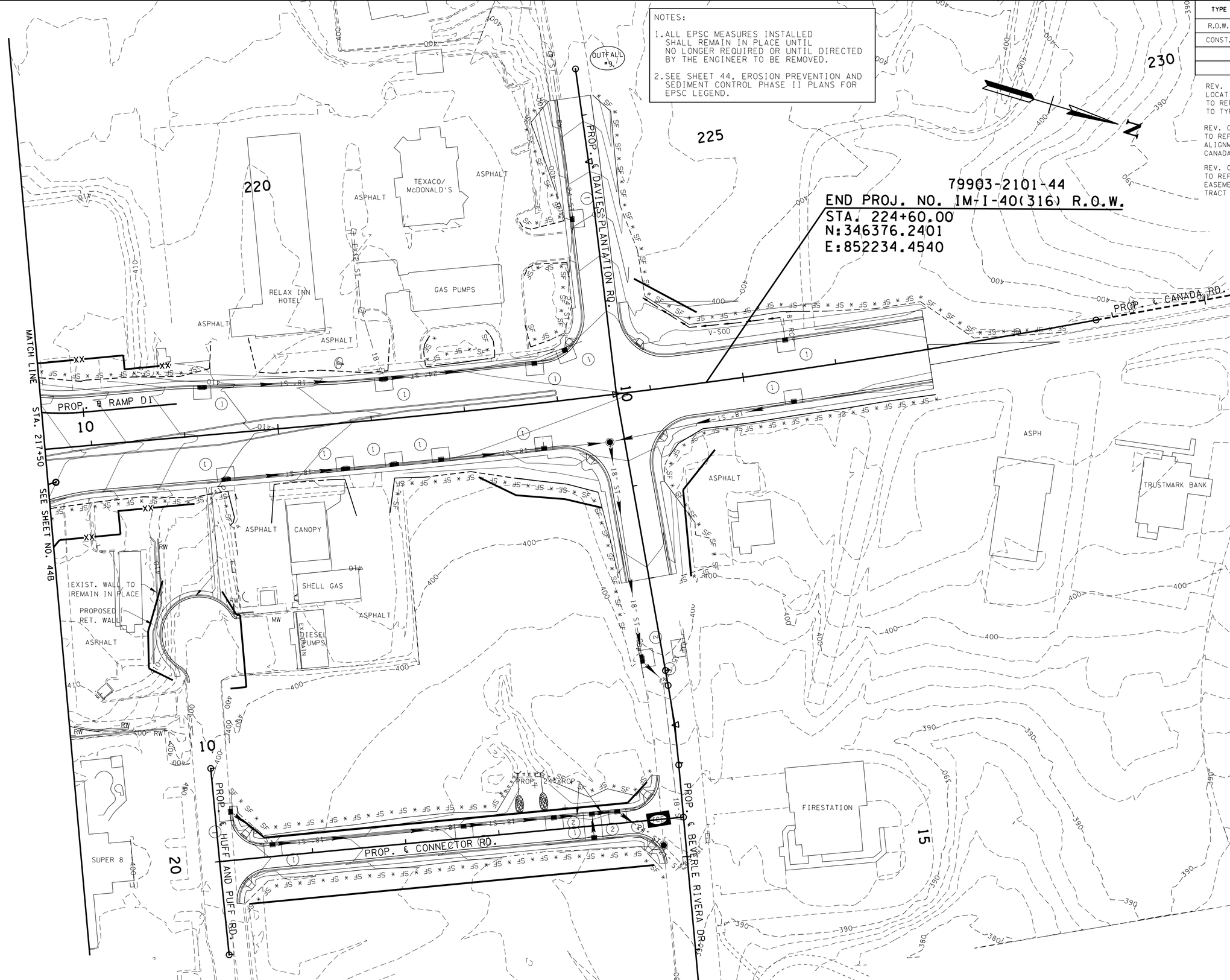
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 44, EROSION PREVENTION AND SEDIMENT CONTROL PHASE II PLANS FOR EPSC LEGEND.

REV. 11/30/2012 REVISED SILT FENCE LOCATIONS AND REVISED CONTOURS TO REFLECT CHANGES TO RAMP C1 AND TO TYPICAL SECTION ON CANADA ROAD.

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT NEW CONNECTOR ROAD ALIGNMENT AND INLET AT STA. 221+20 RT. CANADA ROAD.

REV. 08/18/2013 REVISED EPSC MEASURES TO REFLECT CHANGES MADE TO THE EASEMENTS AND DRIVEWAYS ON TRACT 16 AND TRACT 30.



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AGRICULTURE
No. 104563
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

EPSC PLAN PHASE II

CANADA ROAD

STA. 217+50 TO E.O.P.

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	45

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

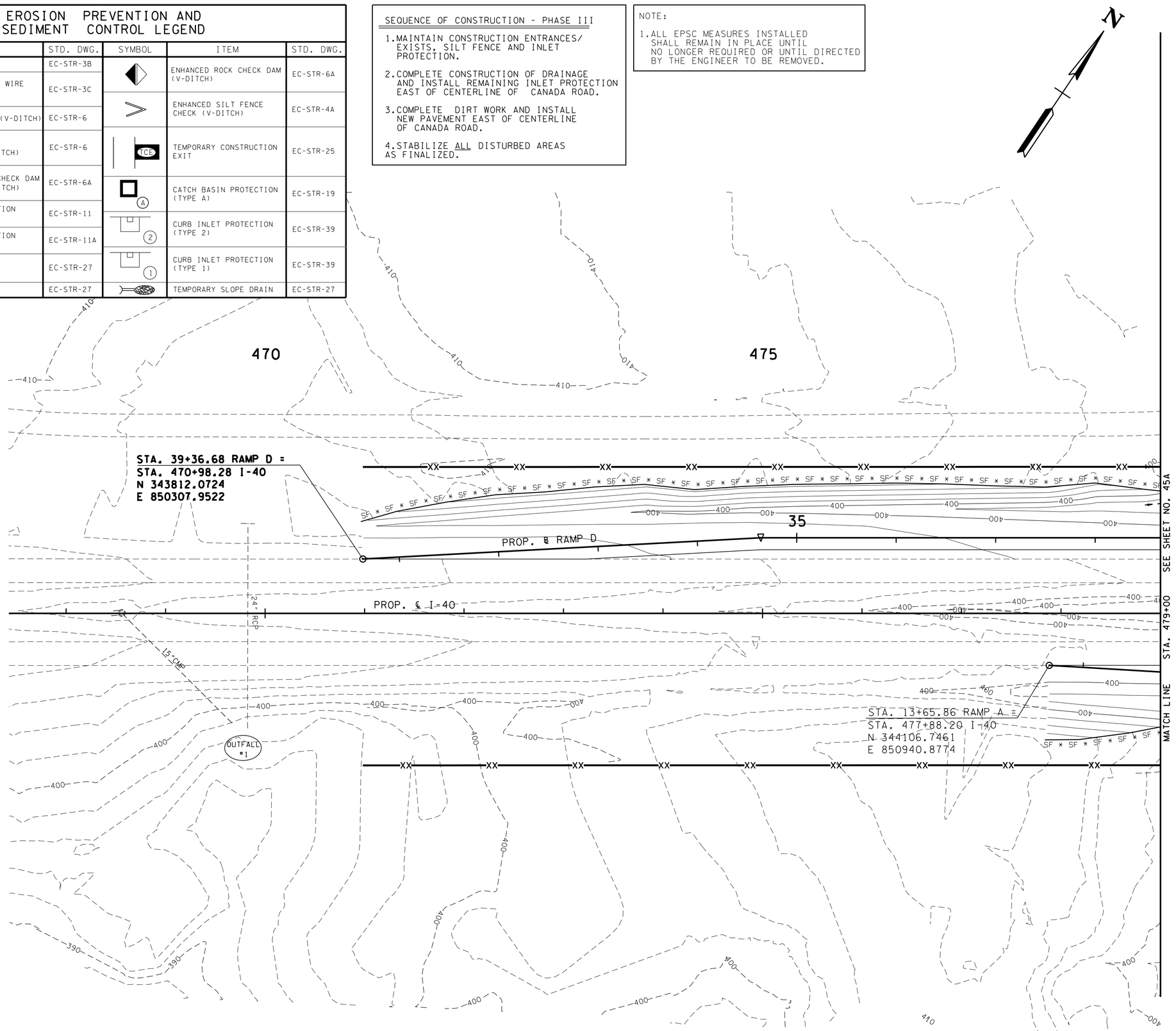
SYMBOL	ITEM	STD. DWG.	SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C		ENHANCED SILT FENCE CHECK (V-DITCH)	EC-STR-4A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6	A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A	2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
	CULVERT PROTECTION (TYPE 1)	EC-STR-11	1	CURB INLET PROTECTION (TYPE 1)	EC-STR-39
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A		TEMPORARY SLOPE DRAIN	EC-STR-27
	RIPRAP	EC-STR-27			
	TEMPORARY BERM	EC-STR-27			

SEQUENCE OF CONSTRUCTION - PHASE III

1. MAINTAIN CONSTRUCTION ENTRANCES/ EXISTS, SILT FENCE AND INLET PROTECTION.
2. COMPLETE CONSTRUCTION OF DRAINAGE AND INSTALL REMAINING INLET PROTECTION EAST OF CENTERLINE OF CANADA ROAD.
3. COMPLETE DIRT WORK AND INSTALL NEW PAVEMENT EAST OF CENTERLINE OF CANADA ROAD.
4. STABILIZE ALL DISTURBED AREAS AS FINALIZED.

NOTE:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.



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EPSC PLAN
PHASE III

I-40 MAINLINE

B.O.P. TO STA.479+00

SCALE: 1"=50'

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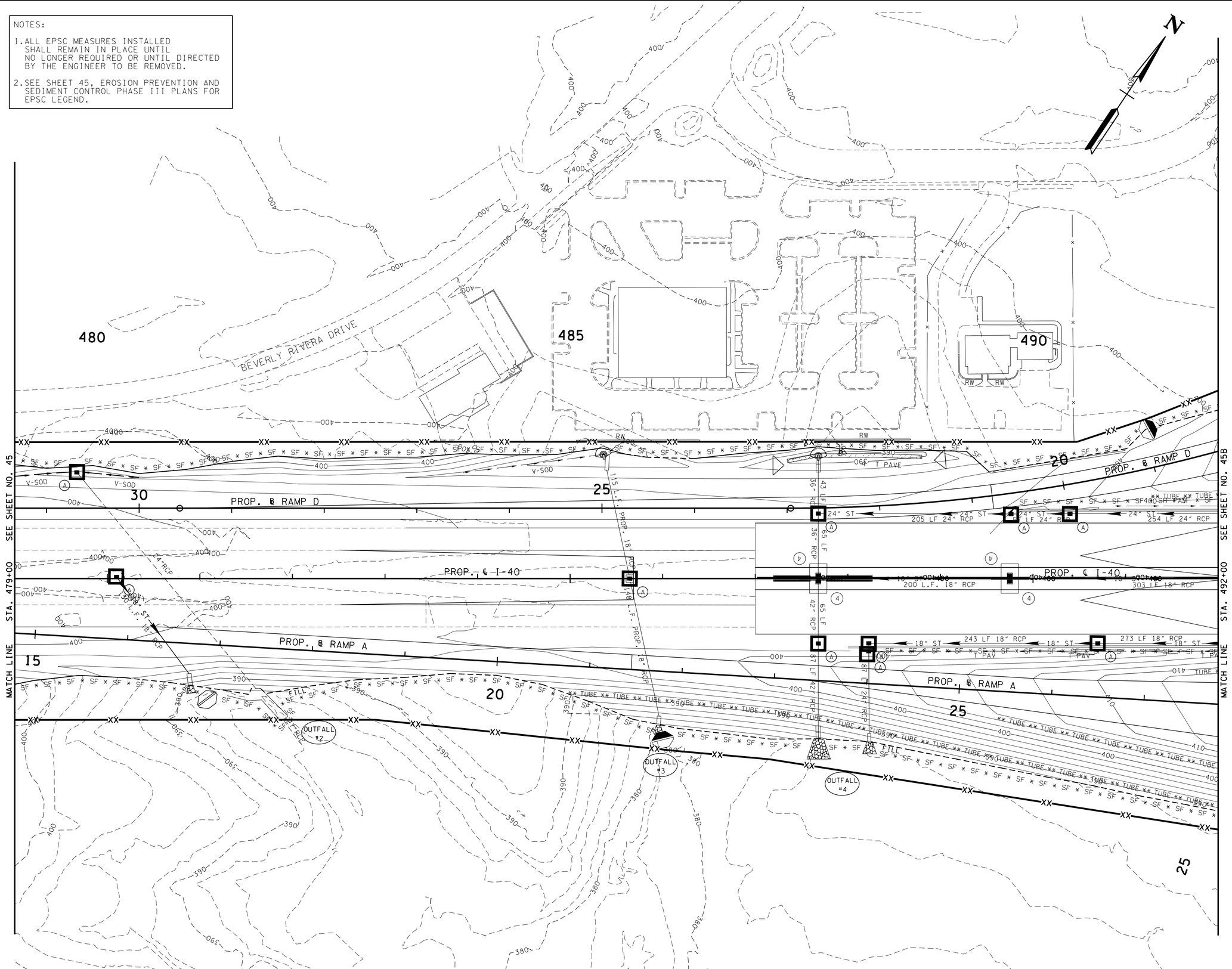
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 45, EROSION PREVENTION AND SEDIMENT CONTROL PHASE III PLANS FOR EPSC LEGEND.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	47
CONST.	2014	NH-I-40-1(283)20	45A



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CHARLES ROBERT COCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104565
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN
PHASE III

I-40 MAINLINE

STA.479+00 TO STA.492+00

SCALE: 1"=50'

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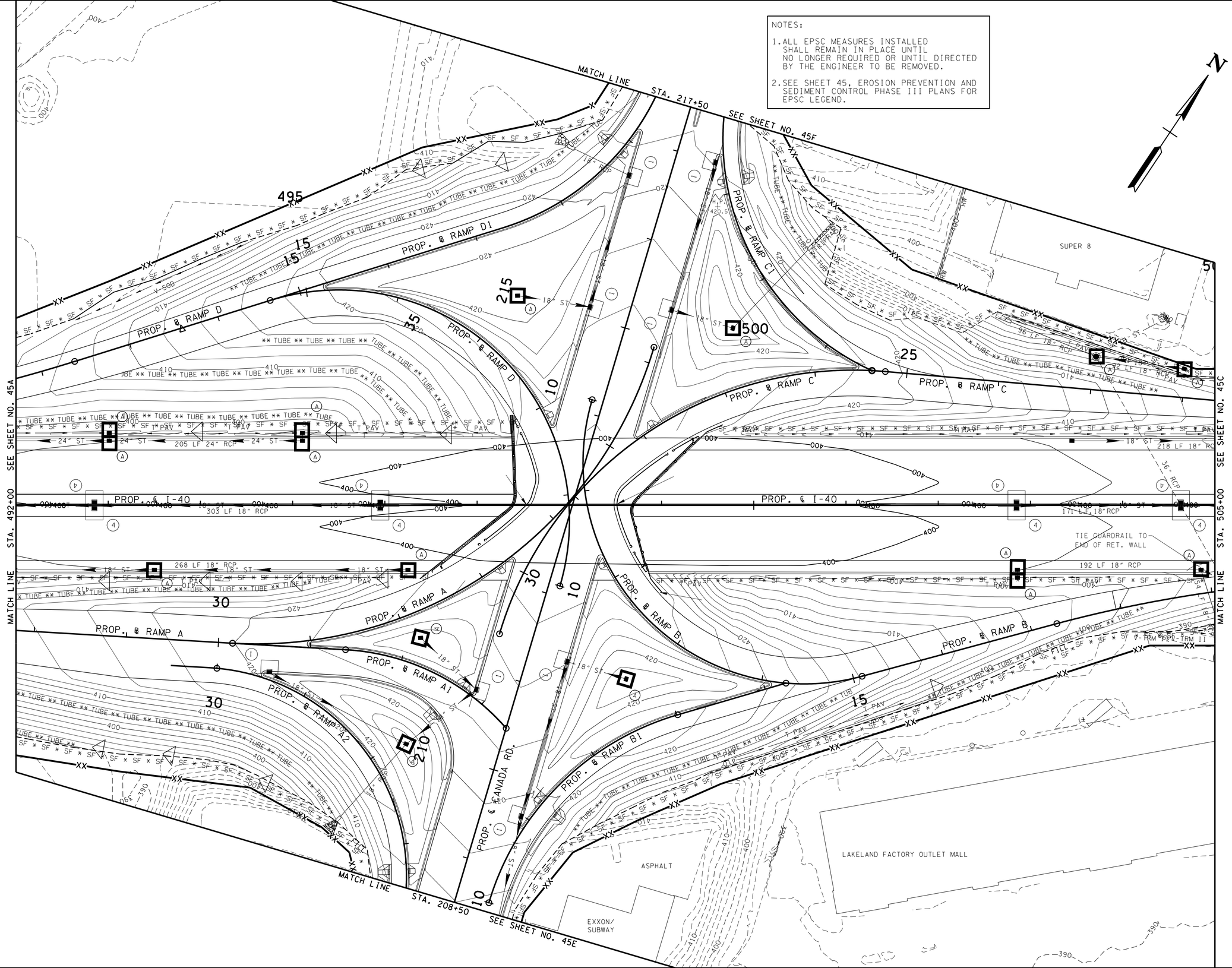
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	48
CONST.	2014	NH-I-40-1(283)20	45B

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 45, EROSION PREVENTION AND SEDIMENT CONTROL PHASE III PLANS FOR EPSC LEGEND.

REV. 11/30/2012 REVISED SILT FENCE AND OTHER EROSION CONTROL MEASURES LOCATIONS AND REVISED CONTOURS TO REFLECT CHANGES TO RAMP C1 AND TO THE TYPICAL SECTION ON CANADA ROAD.



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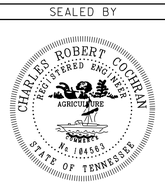

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC PLAN PHASE III

I-40 MAINLINE

492+00 TO STA. 505+00

SCALE: 1"=50'

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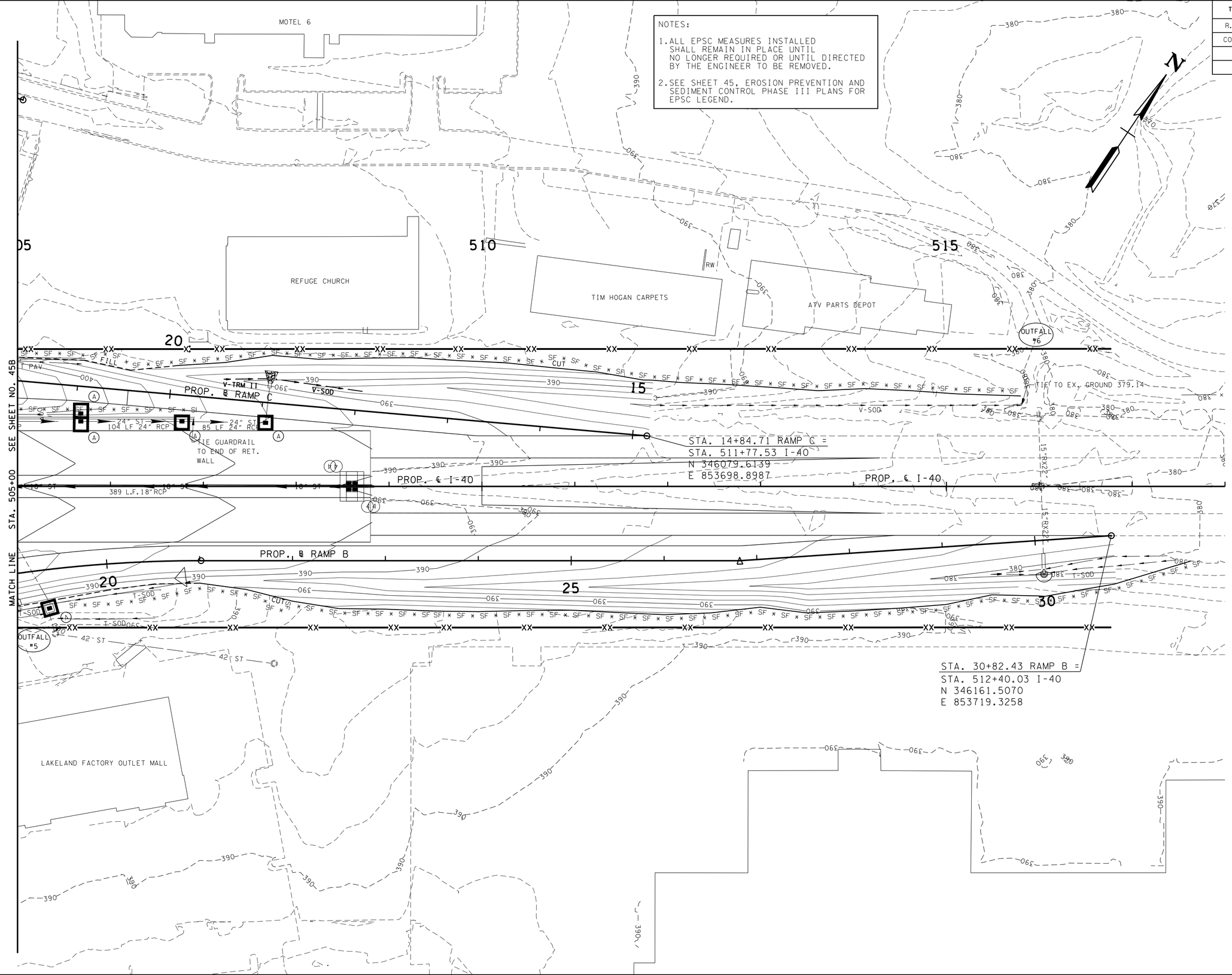
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	49
CONST.	2014	NH-I-40-1(283)20	45C

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 45. EROSION PREVENTION AND SEDIMENT CONTROL PHASE III PLANS FOR EPSC LEGEND.

REV. 05/17/2013 REMOVED BEVERLE BAY DRIVE ALIGNMENT AND EPSC MEASURES.



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AGRICULTURE
No. 104563
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

EPSC PLAN PHASE III

I-40 MAINLINE

505+00 TO STA. E.O.P.

SCALE: 1"=50'

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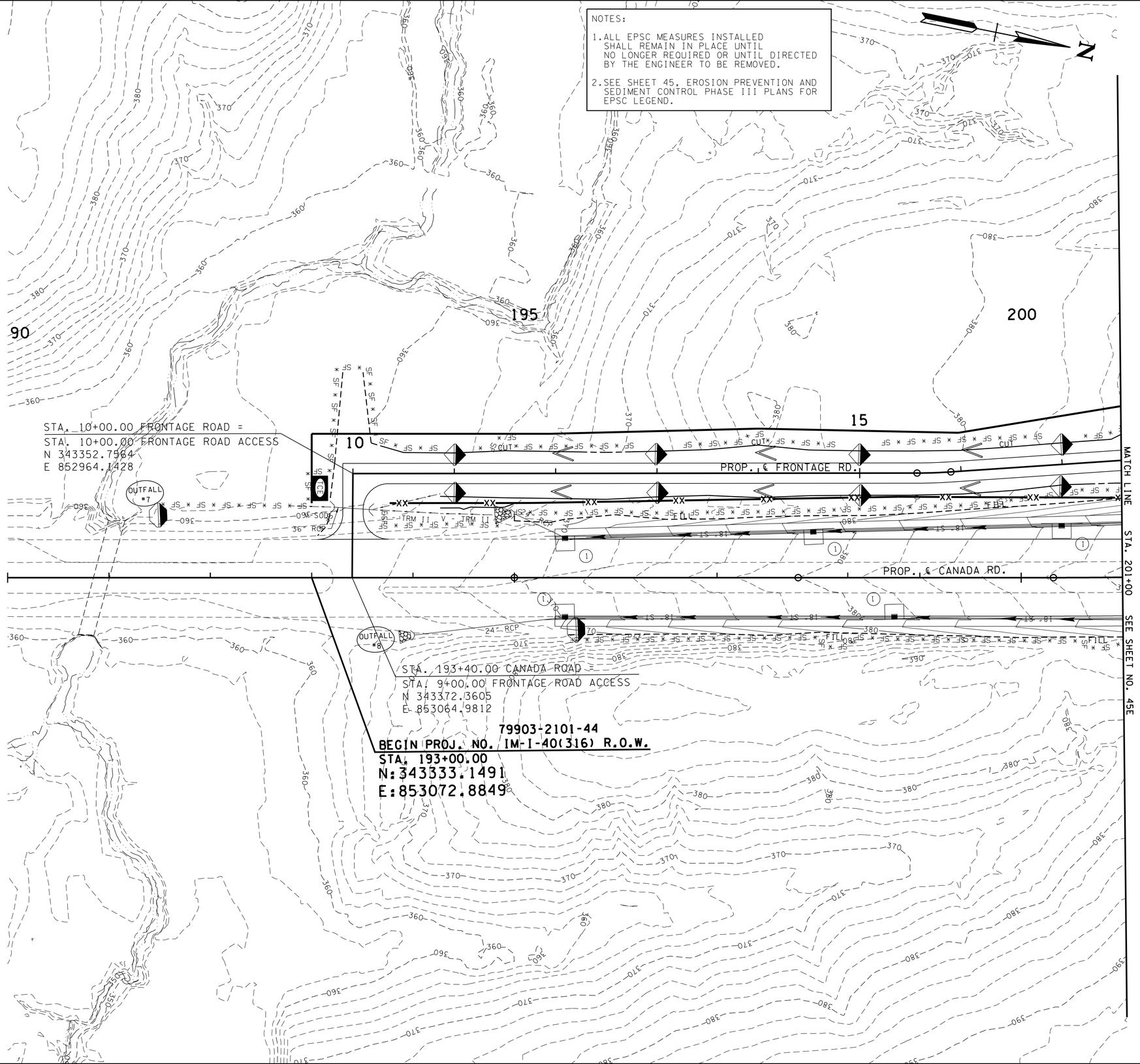
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	50
CONST.	2014	NH-I-40-1(283)20	45D

NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 45, EROSION PREVENTION AND SEDIMENT CONTROL PHASE III PLANS FOR EPSC LEGEND.



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EPSC PLAN
PHASE III

CANADA ROAD

B.O.P. TO STA. 201+00

SCALE: 1"=50'

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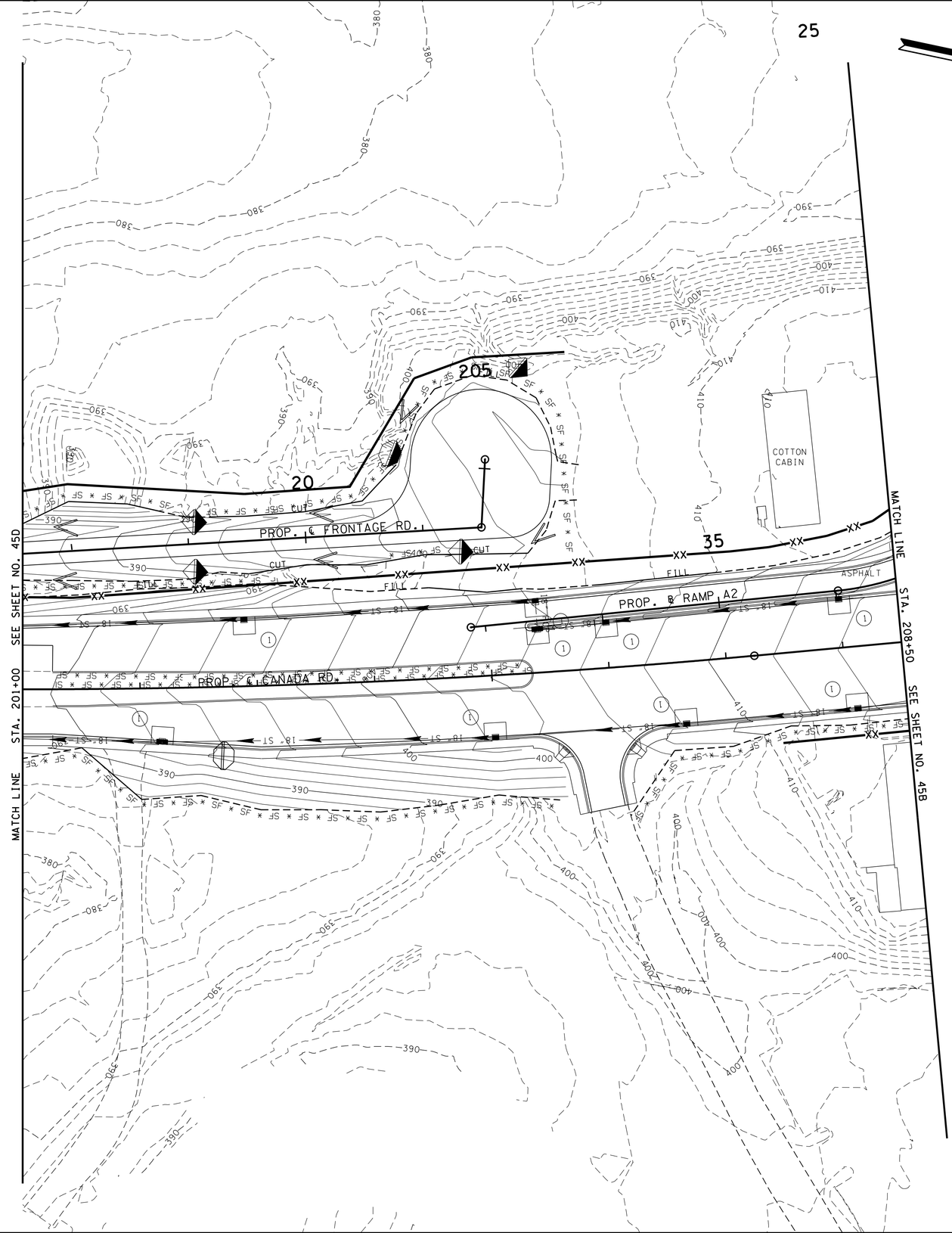
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.

2. SEE SHEET 45, EROSION PREVENTION AND SEDIMENT CONTROL PHASE III PLANS FOR EPSC LEGEND.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	51
CONST.	2014	NH-I-40-1(283)20	45E

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT EXISTING FIELD ROAD.

REV. 11/29/2013 REVISED EPSC MEASURES TO REFLECT REVISED FRONTAGE ROAD ALIGNMENT AND LAYOUT.

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EPSC PLAN PHASE III

CANADA ROAD

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-1(316)	52
CONST.	2014	NH-I-40-1(283)20	45F

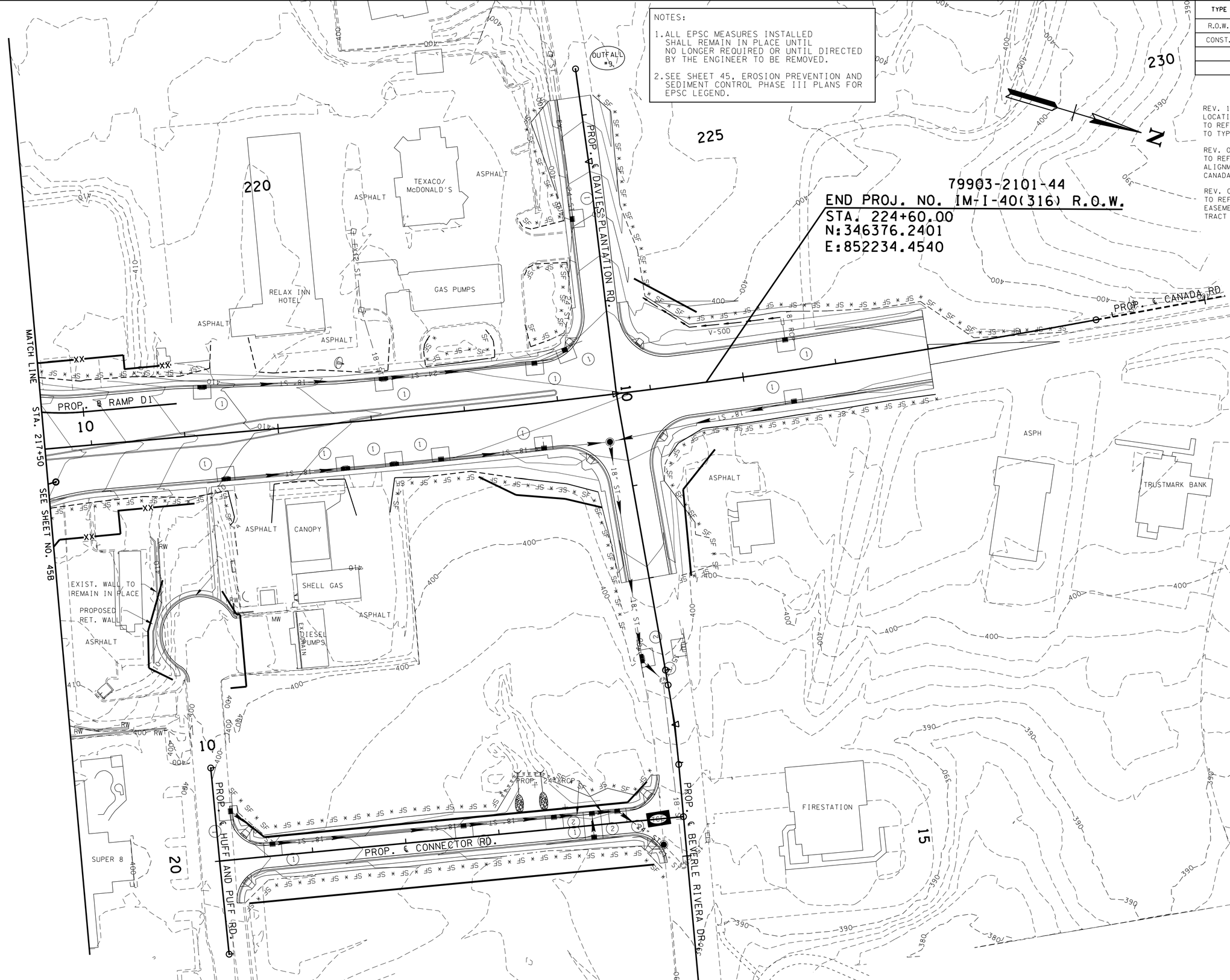
NOTES:

1. ALL EPSC MEASURES INSTALLED SHALL REMAIN IN PLACE UNTIL NO LONGER REQUIRED OR UNTIL DIRECTED BY THE ENGINEER TO BE REMOVED.
2. SEE SHEET 45, EROSION PREVENTION AND SEDIMENT CONTROL PHASE III PLANS FOR EPSC LEGEND.

REV. 11/30/2012 REVISED SILT FENCE LOCATIONS AND REVISED CONTOURS TO REFLECT CHANGES TO RAMP C1 AND TO TYPICAL SECTION ON CANADA ROAD.

REV. 05/17/2013 REVISED EPSC MEASURES TO REFLECT NEW CONNECTOR ROAD ALIGNMENT AND INLET AT STA. 221+20 RT. CANADA ROAD.

REV. 08/18/2013 REVISED EPSC MEASURES TO REFLECT CHANGES MADE TO THE EASEMENTS AND DRIVEWAYS ON TRACT 16 AND TRACT 30.



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EPSC PLAN PHASE III

CANADA ROAD

STA. 217+50 TO E.O.P.

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	46

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 PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), 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 PAVEMENT AND/OR LOW SHOULDER) 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 PAVEMENT AND/OR LOW SHOULDER) 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 (W8-9A). 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 ONE MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

   SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

   1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

   2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

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TRAFFIC CONTROL EDGE DROP-OFF NOTES

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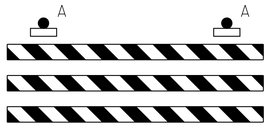
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	46A

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PHASE 1 QUANTITY	PHASE 2 QUANTITY	PHASE 3 QUANTITY	PHASE 4 QUANTITY	PHASE 5 QUANTITY	PHASE 6 QUANTITY	MAX. OR TOTAL	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
606-24.12	TEMPORARY SHEET PILE	S.F.	11360			11360							
705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	7	5	5	7	7	7	7				
712-01	TRAFFIC CONTROL	LS	1	1	1	1	1	1	1				
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	8850	6120	6320	5250	5090	5650	8850				
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	247	408	460	556	770	372	770				
712-05.01	WARNING LIGHTS (TYPE A)	EACH	14	34	24	18	32	38	38				For Type III Barricades
712-06	SIGNS (CONSTRUCTION)	EACH						6	6	27.00	36" X 18"		"Canada Rd"
		EACH			7				7	31.50	36" X 18"		"Canada Rd NB"
		EACH					5	5	5	40.00	48" X 24"		"To Huff-n-Puff/…."
		EACH					4	4	4	32.00	48" x 24"		"To Canada Road"
		EACH			1				1	99.75	126" X 114"		See Detour Sheets
		EACH			1				1	63.00	126" X 72"		See Detour Sheets
		EACH			1			1	1	12.00	48" X 36"	E5-2A	
		EACH	4	4	4	4	4	4	4	32.00	48" X 24"	G20-2	
		EACH		1	1	1	1	1	1	9.00	36" X 36"	M1-1	
		EACH		1	1	1	1	32	32	144.00	36" X 18"	M3-2	
		EACH			7			32	32	100.00	30" X 15"	M3-8	
		EACH			1			4	4	12.00	24" X 18"	M4-8A	
		EACH		1	2		2	4	4	17.50	30" X 21"	M5-1L	
		EACH					3	8	8	35.00	30" X 21"	M5-1R	
		EACH			2			3	3	13.13	30" X 21"	M5-2R	
		EACH			1	1	1	1	1	4.38	30" X 21"	M5-2L	
		EACH			1		2	4	4	17.50	30" X 21"	M6-1L	
		EACH			1		2	7	7	30.63	30" X 21"	M6-1R	
		EACH			1			8	8	35.00	30" X 21"	M6-3	
		EACH					1	1	1	2.19	21" X 15"	M6-4	
		EACH		1	1	12	13	13	13	117.00	36" X 36"	R1-1	
		EACH		1	2				2	18.00	36" X 36"	R1-2	
		EACH	4	4	5	4	3	4	5	100.00	48" X 60"	R2-1	
		EACH		3	3				3	48.00	48" X 48"	R5-1	
		EACH					2	2	2	20.00	48" X 30"	R11-2	
		EACH	2	2	2	2	2	2	2	10.00	24" X 30"	TN-9	
		EACH	1			1	1	2	2	32.00	48" X 48"	W1-4L	
		EACH		3	3	2	4	5	5	80.00	48" X 48"	W1-4R	
		EACH		3	2	2	1	1	3	37.50	60" X 30"	W1-6L	
		EACH	4	4	4	4	4	4	4	64.00	48" X 48"	W3-5	
		EACH			1				1	16.00	48" X 48"	W4-1L	
		EACH	2		2				2	32.00	48" X 48"	W4-1R	
		EACH		2			1	1	2	32.00	48" X 48"	W4-2L	
		EACH				1	1	1	1	16.00	48" X 48"	W4-2R	
		EACH	2	2	2	2	2	2	2	8.00	24" X 24"	W13-1P	
		EACH	17	17	17	17	17	17	17	272.00	48" X 48"	W20-1	
		EACH			1			4	4	64.00	48" X 48"	W20-2	
		EACH					1	1	1	16.00	48" X 48"	W20-3	
		EACH	4	4	4	4	4	2	4	64.00	48" X 48"	W20-5L	
		EACH	2	2	2	2	2	2	2	32.00	48" X 48"	W20-5R	
		EACH	5	2	4	1	2	2	5	80.00	48" X 48"	W21-5B	
		EACH	4	2	3	1	2	1	4	64.00	48" X 48"	W21-5R	
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	140	340	240	180	320	380	380				
712-08.03	ARROW BOARD (TYPE C)	EACH	4	4	4	4	4	4	4				
712-99.92	TRAFFIC CONTROL (MAINTAIN LOGO SIGNS)	LS	1	1	1	1	1	1	1				
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2	2	4	2	2	4	4				
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1.8	0.9	1.3	1.2	0.7	0.3	6.2				
716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	9200	6580	3820	31760	1800	1600	54760				
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	1.8	0.9	1.3	1.2	0.7	0.3	6.2				
716-08.02	REMOVAL OF PAVEMENT MARKING (8" BARRIER LINE)	L.F.	9200	6580	3820	31760	1800	1600	54760				
TOTAL										**1980.06**			

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS



TYPE III BARRICADE
w/ TYPE A
WARNING LIGHTS

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TRAFFIC CONTROL QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	46B

PORTABLE MESSAGE BOARD

1A 1B 1C 1D 1E

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — DETOUR — M3-8 30" X 15" — M5-2R 30" X 21" (2)

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — DETOUR — M3-8 30" X 15" — M6-3 30" X 21" (3)

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — DETOUR — M3-8 30" X 15" — M5-1L 30" X 21" (4)

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — DETOUR — M3-8 30" X 15" — M6-1L 30" X 21" (5)

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — END DETOUR — M4-8A 24" X 18" (6)

DETOUR AHEAD — W20-2 48" X 48" (7)

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — DETOUR — M3-8 30" X 15" — M6-1R 30" X 21" (8)

EAST INTERSTATE 40 — M3-2 36" X 18" — M1-1 36" X 36" — DETOUR — M3-8 30" X 15" — M5-1R 30" X 21" (9)

E5-2A 48" X 36" EXIT CLOSED — A — A

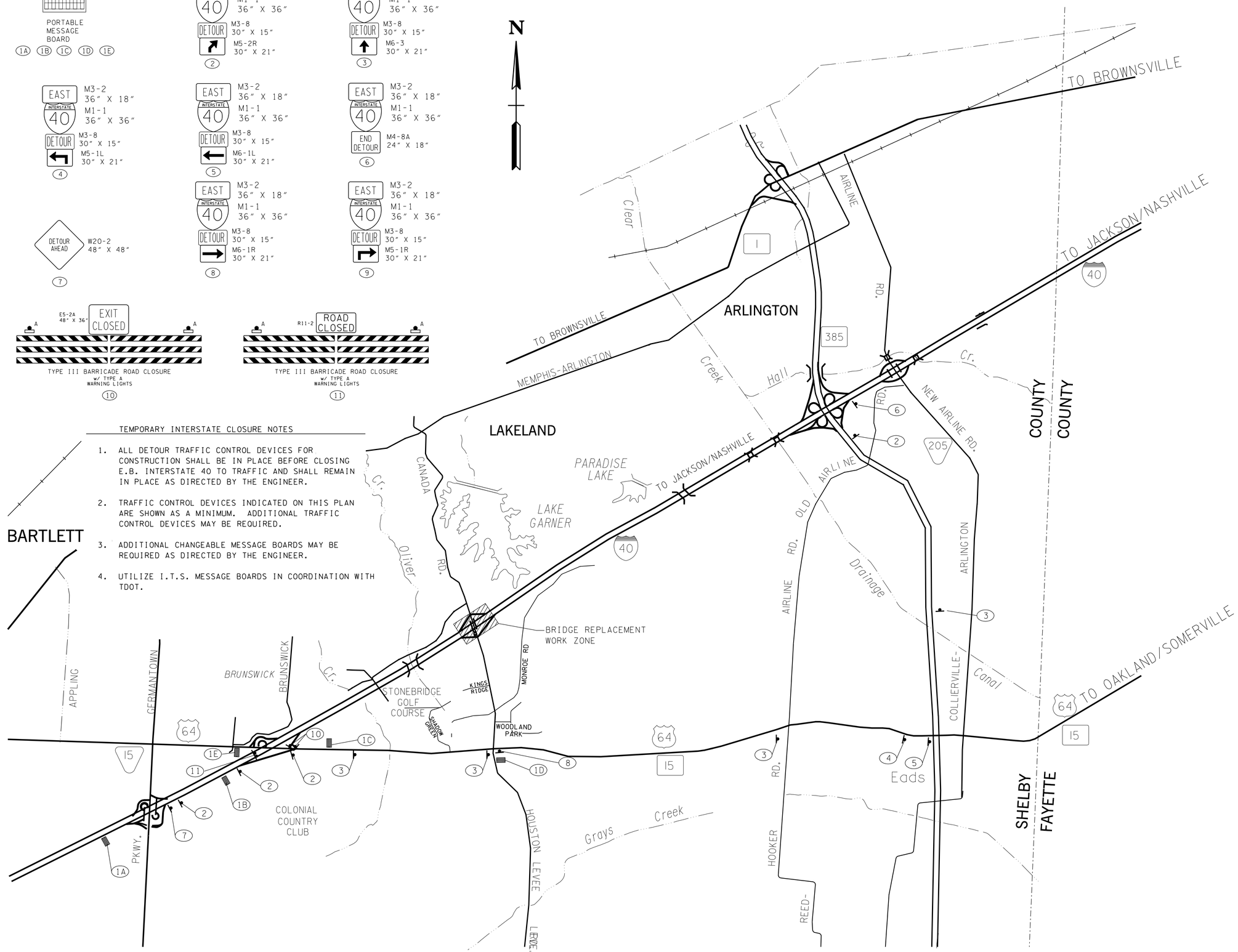
TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS (10)

R11-2 ROAD CLOSED — A — A

TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS (11)

TEMPORARY INTERSTATE CLOSURE NOTES

1. ALL DETOUR TRAFFIC CONTROL DEVICES FOR CONSTRUCTION SHALL BE IN PLACE BEFORE CLOSING E.B. INTERSTATE 40 TO TRAFFIC AND SHALL REMAIN IN PLACE AS DIRECTED BY THE ENGINEER.
2. TRAFFIC CONTROL DEVICES INDICATED ON THIS PLAN ARE SHOWN AS A MINIMUM. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED.
3. ADDITIONAL CHANGEABLE MESSAGE BOARDS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. UTILIZE I.T.S. MESSAGE BOARDS IN COORDINATION WITH TDOT.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TEMPORARY DETOUR PLAN

E.B. I-40 & RAMP CLOSURES

NOT TO SCALE

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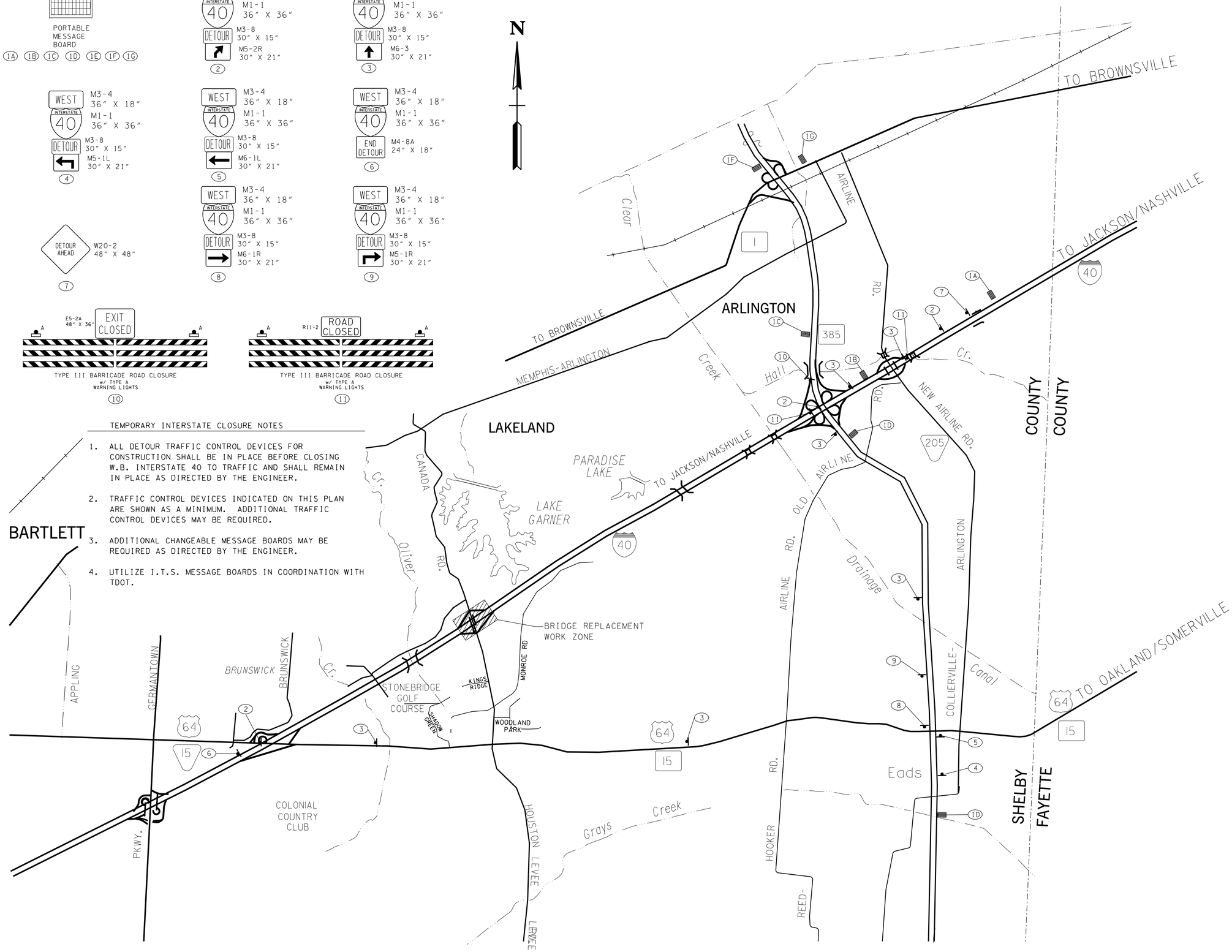
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	46C

TEMPORARY INTERSTATE CLOSURE NOTES

1. ALL DETOUR TRAFFIC CONTROL DEVICES FOR CONSTRUCTION SHALL BE IN PLACE BEFORE CLOSING W.B. INTERSTATE 40 TO TRAFFIC AND SHALL REMAIN IN PLACE AS DIRECTED BY THE ENGINEER.
2. TRAFFIC CONTROL DEVICES INDICATED ON THIS PLAN ARE SHOWN AS A MINIMUM. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED.
3. ADDITIONAL CHANGEABLE MESSAGE BOARDS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. UTILIZE I.T.S. MESSAGE BOARDS IN COORDINATION WITH TDOT.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TEMPORARY DETOUR PLAN

W.B. I-40 & RAMP CLOSURES

NOT TO SCALE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	IM-40-1(283)20	47

PHASE 1 SEQUENCE OF CONSTRUCTION

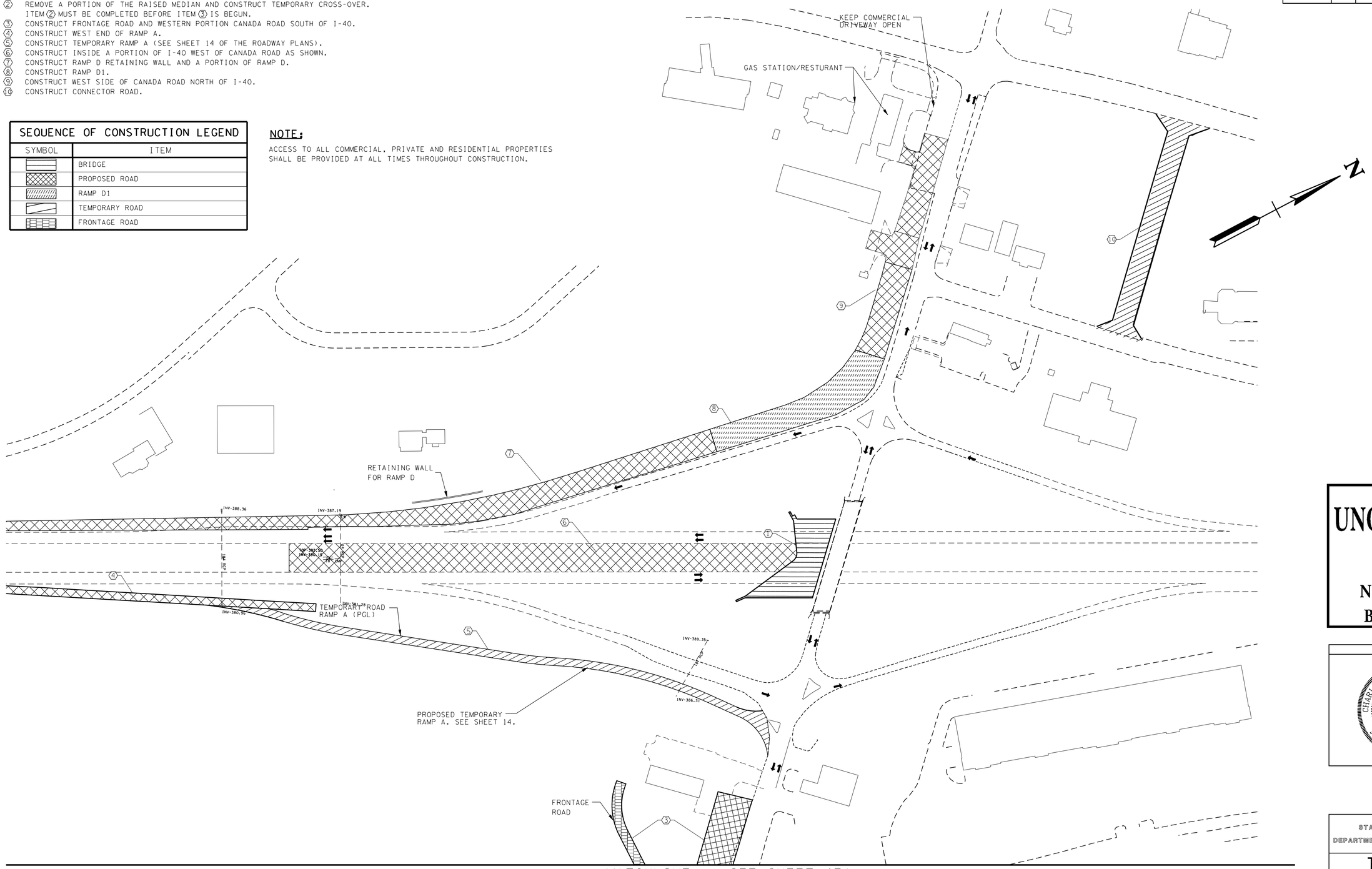
1. BEGIN CONSTRUCTION OF THE WESTERN HALF OF BRIDGE. BRIDGE CONSTRUCTION MAY EXTEND FROM PHASE 1 THROUGH PHASE 3.
2. REMOVE A PORTION OF THE RAISED MEDIAN AND CONSTRUCT TEMPORARY CROSS-OVER. ITEM 2 MUST BE COMPLETED BEFORE ITEM 3 IS BEGUN.
3. CONSTRUCT FRONTAGE ROAD AND WESTERN PORTION CANADA ROAD SOUTH OF I-40.
4. CONSTRUCT WEST END OF RAMP A.
5. CONSTRUCT TEMPORARY RAMP A (SEE SHEET 14 OF THE ROADWAY PLANS).
6. CONSTRUCT INSIDE A PORTION OF I-40 WEST OF CANADA ROAD AS SHOWN.
7. CONSTRUCT RAMP D RETAINING WALL AND A PORTION OF RAMP D.
8. CONSTRUCT RAMP D1.
9. CONSTRUCT WEST SIDE OF CANADA ROAD NORTH OF I-40.
10. CONSTRUCT CONNECTOR ROAD.

SEQUENCE OF CONSTRUCTION LEGEND

SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	RAMP D1
	TEMPORARY ROAD
	FRONTAGE ROAD

NOTE:

ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



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TRAFFIC CONTROL PLAN PHASE 1

SEQUENCE OF CONSTRUCTION

NOT TO SCALE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	IM-40-1(283)20	47A

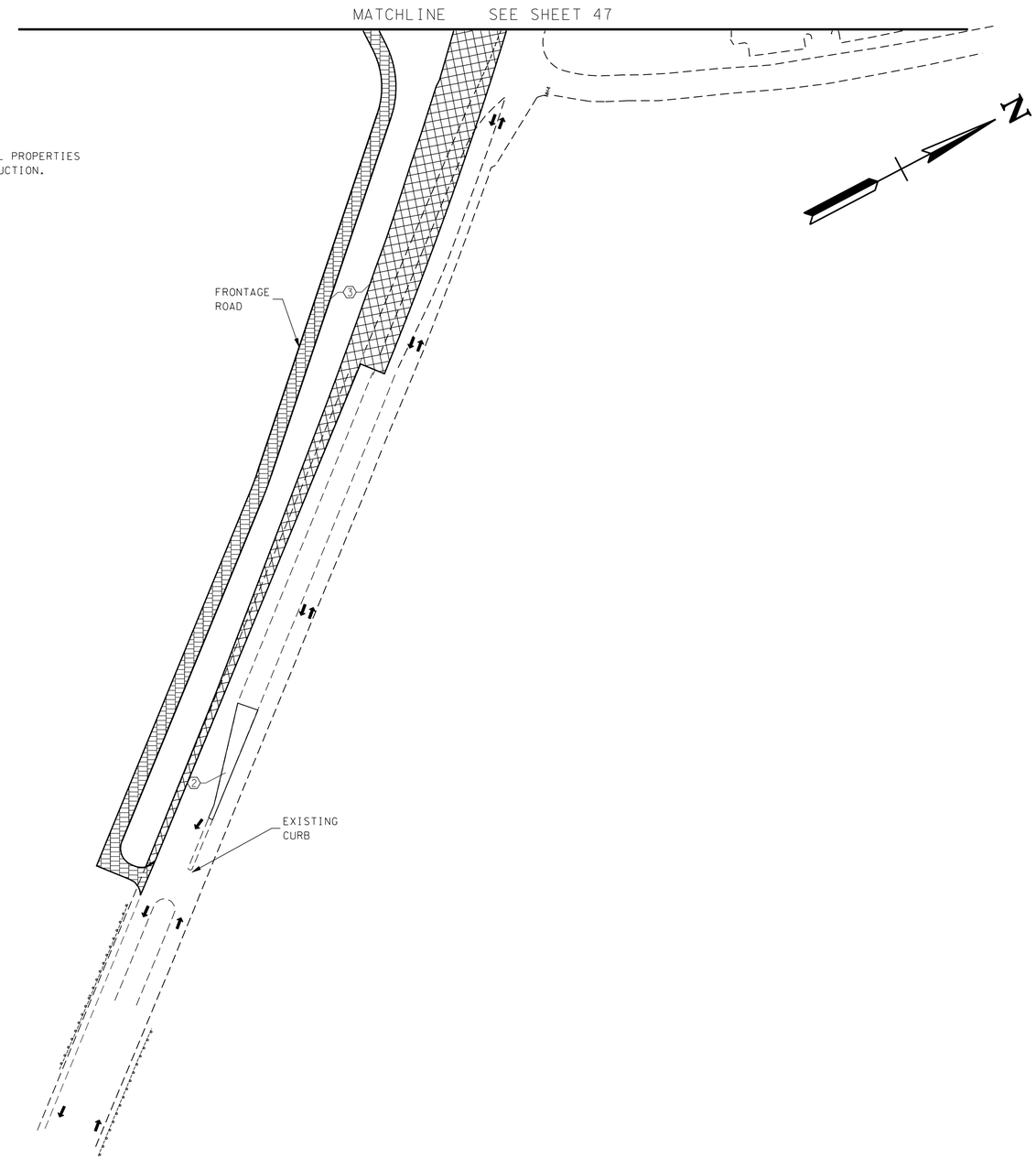
PHASE 1 SEQUENCE OF CONSTRUCTION

1. BEGIN CONSTRUCTION OF THE WESTERN HALF OF BRIDGE. BRIDGE CONSTRUCTION MAY EXTEND FROM PHASE 1 THROUGH PHASE 3.
2. REMOVE A PORTION OF THE RAISED MEDIAN AND CONSTRUCT TEMPORARY CROSS-OVER. ITEM 2 MUST BE COMPLETED BEFORE ITEM 3 IS BEGUN.
3. CONSTRUCT FRONTAGE ROAD AND WESTERN PORTION CANADA ROAD SOUTH OF I-40.
4. CONSTRUCT WEST END OF RAMP A.
5. CONSTRUCT TEMPORARY RAMP A (SEE SHEET 14 OF THE ROADWAY PLANS).
6. CONSTRUCT INSIDE A PORTION OF I-40 AS SHOWN.
7. CONSTRUCT RAMP D RETAINING WALL AND A PORTION OF RAMP D.
8. CONSTRUCT RAMP D1.
9. CONSTRUCT WEST SIDE OF CANADA ROAD NORTH OF I-40.

SEQUENCE OF CONSTRUCTION LEGEND	
SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	RAMP D1
	TEMPORARY ROAD
	FRONTAGE ROAD

NOTE:

ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



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TRAFFIC CONTROL PLAN
PHASE 1
SEQUENCE OF CONSTRUCTION
NOT TO SCALE

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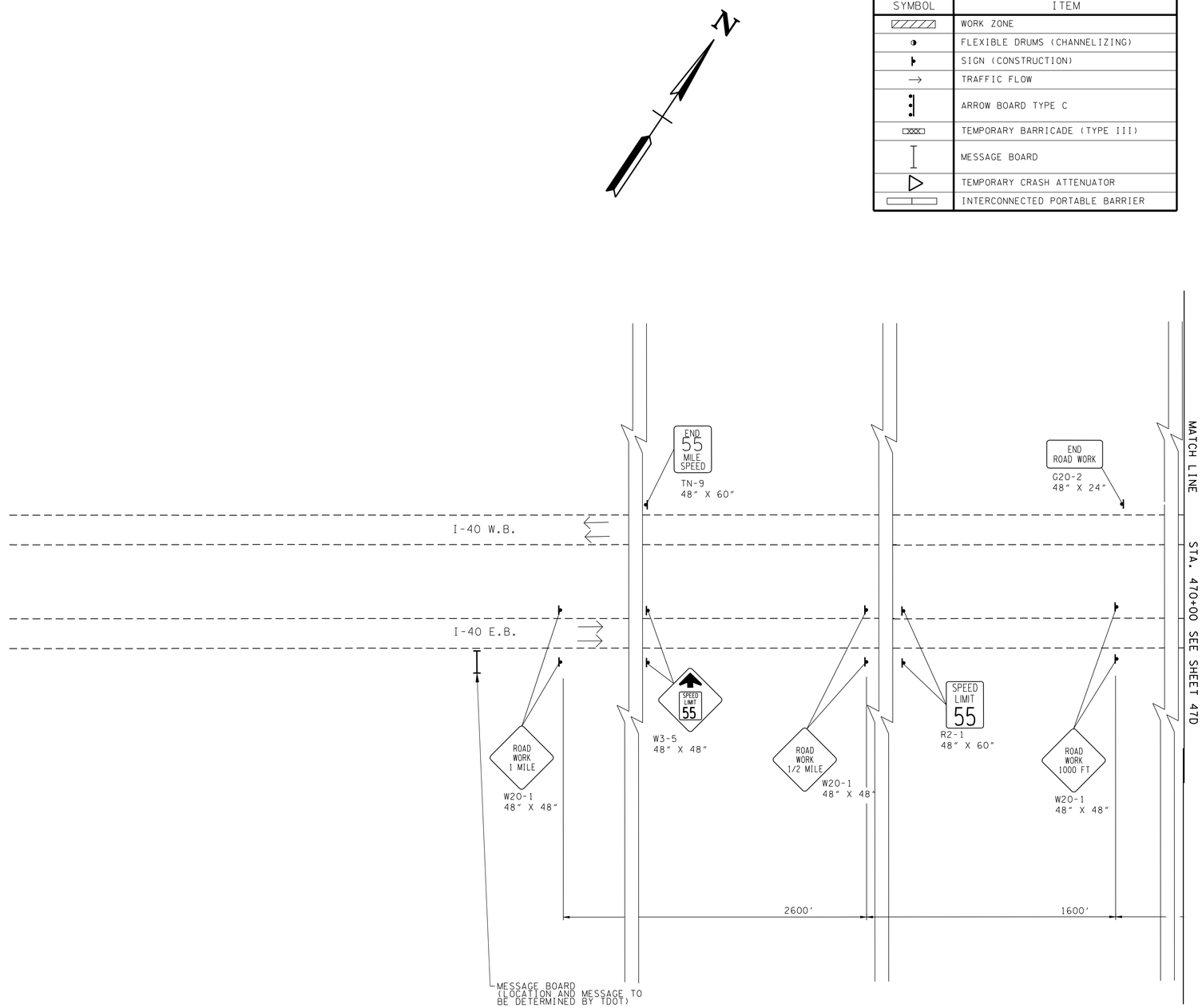
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47B

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 1

B.O.P. TO STA 470+00

SCALE: 1"=50'

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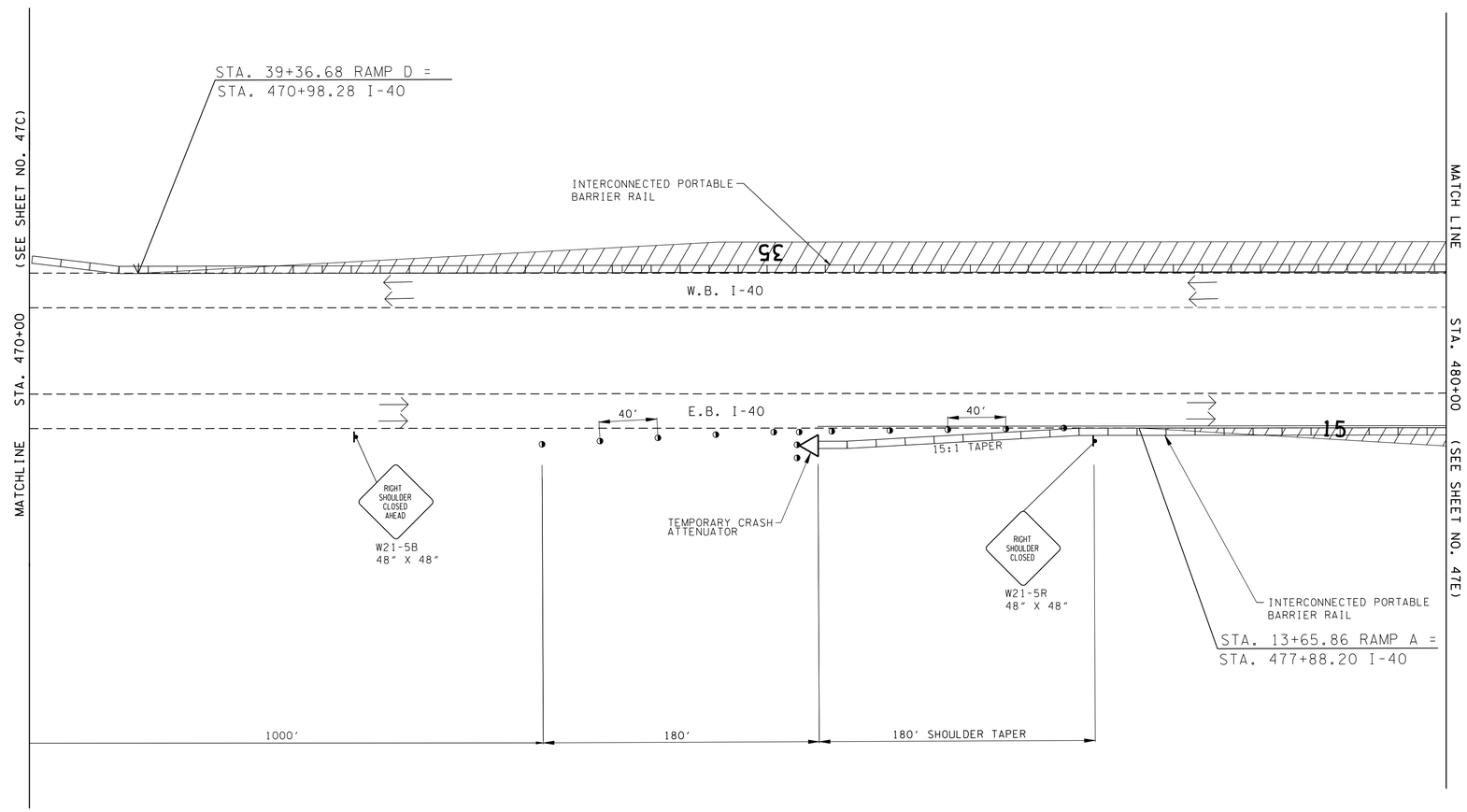
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47C

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA 470+00 TO STA 480+00

SCALE: 1"=50'

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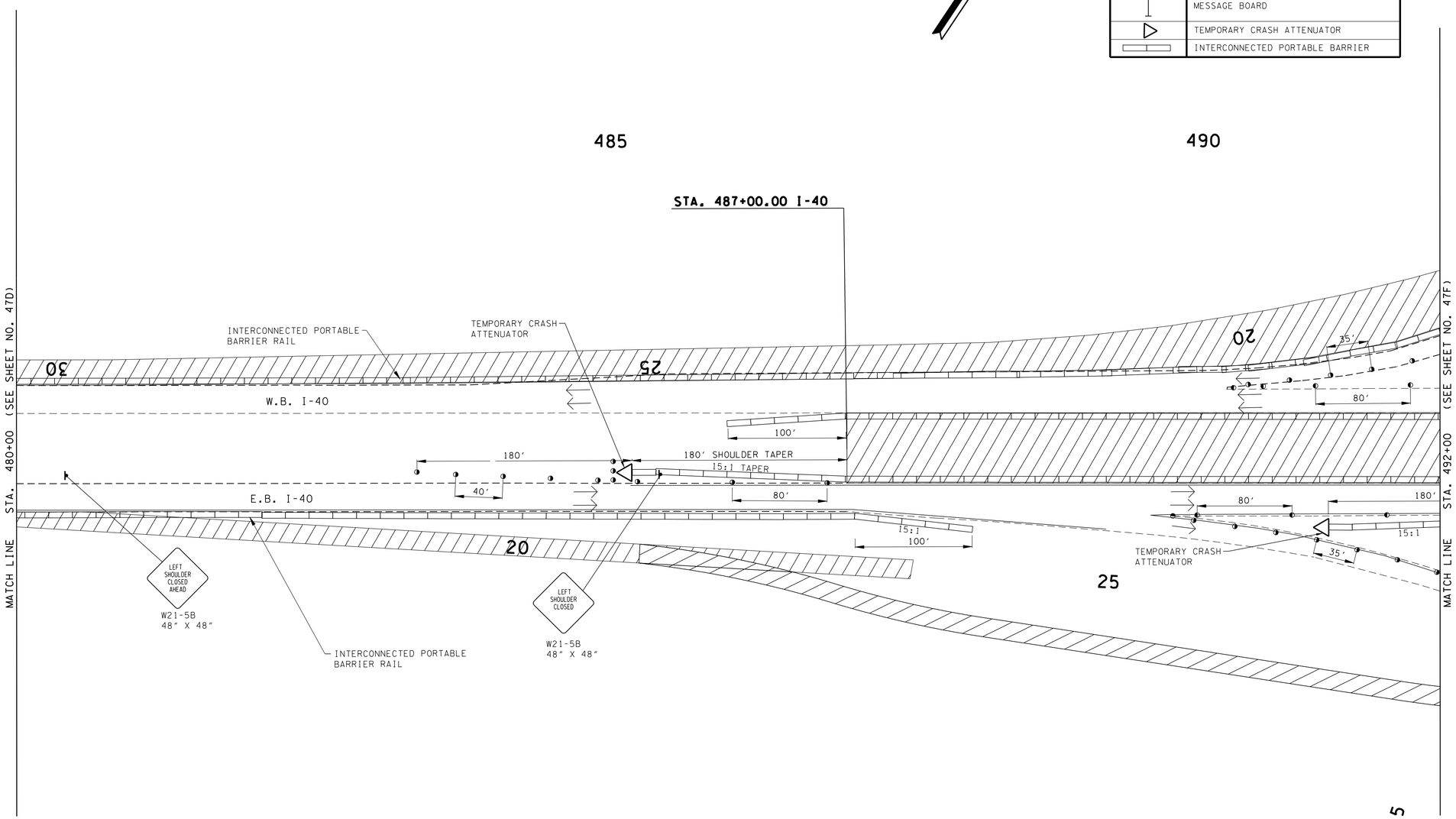
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47D

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA.480+00 TO STA.492+00

SCALE: 1"=50'

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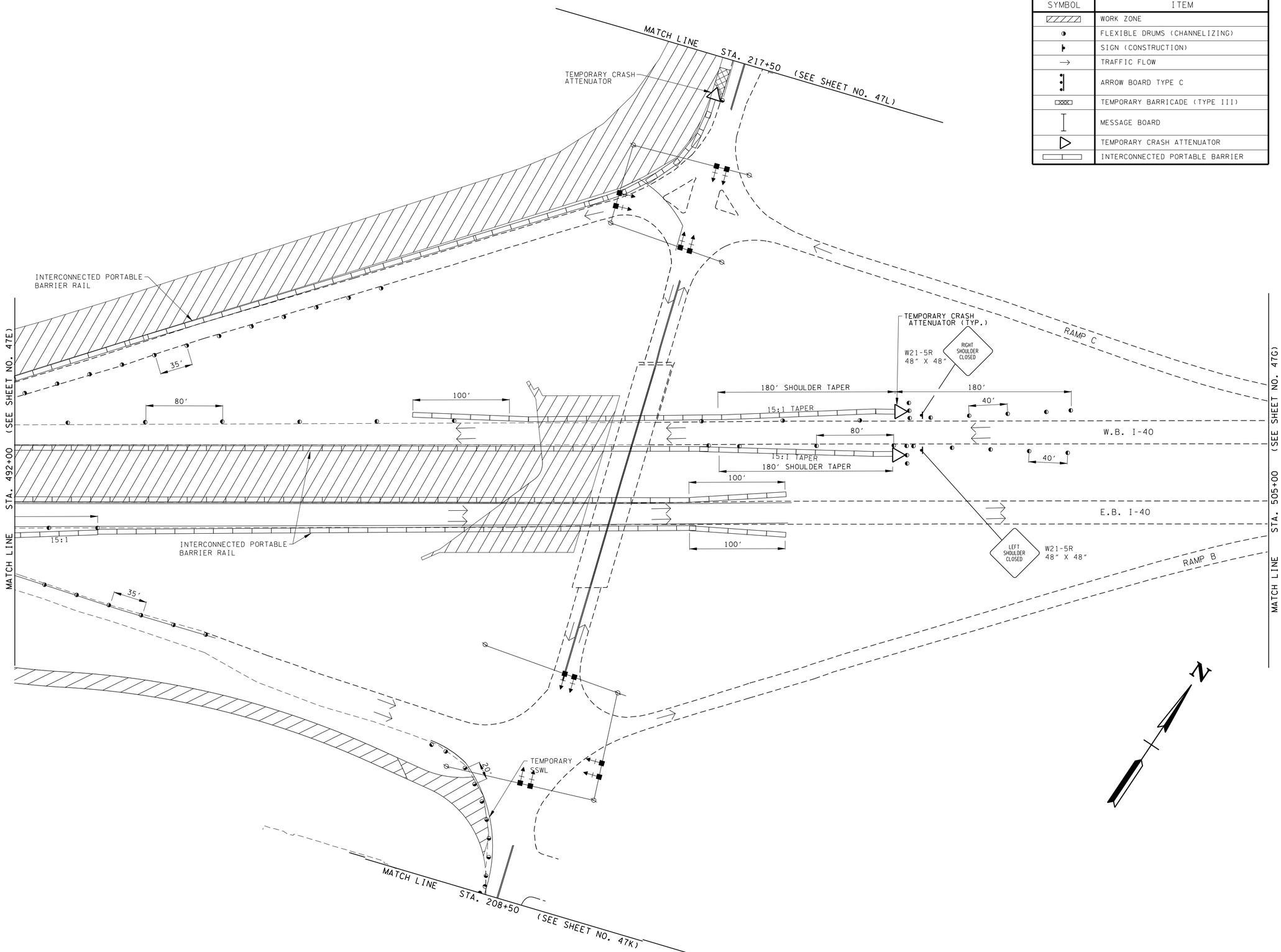
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA.492+00 TO STA.505+00

SCALE: 1"=50'

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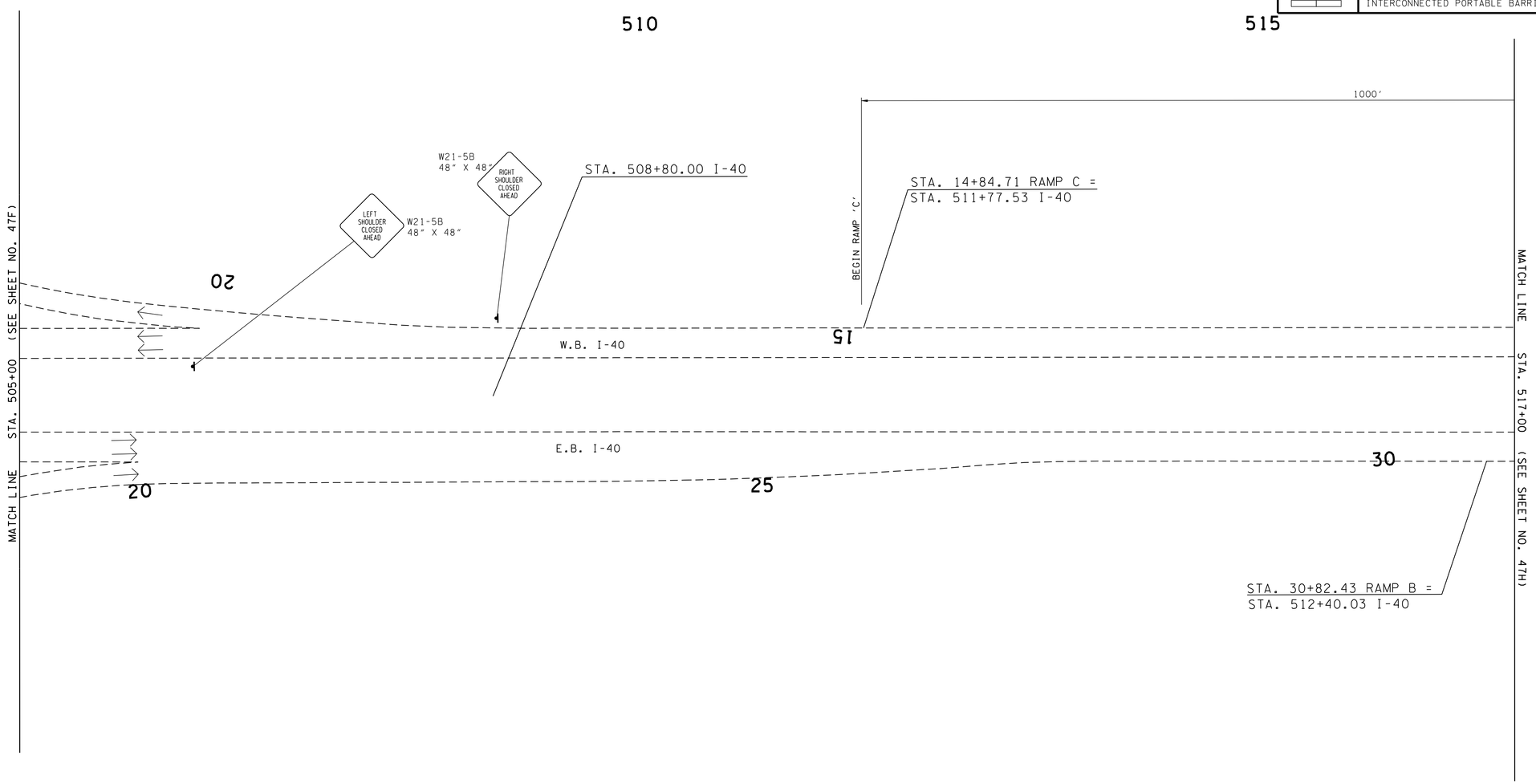
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47F

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 1

STA 505+00 TO STA. 517+00

SCALE: 1"=50'

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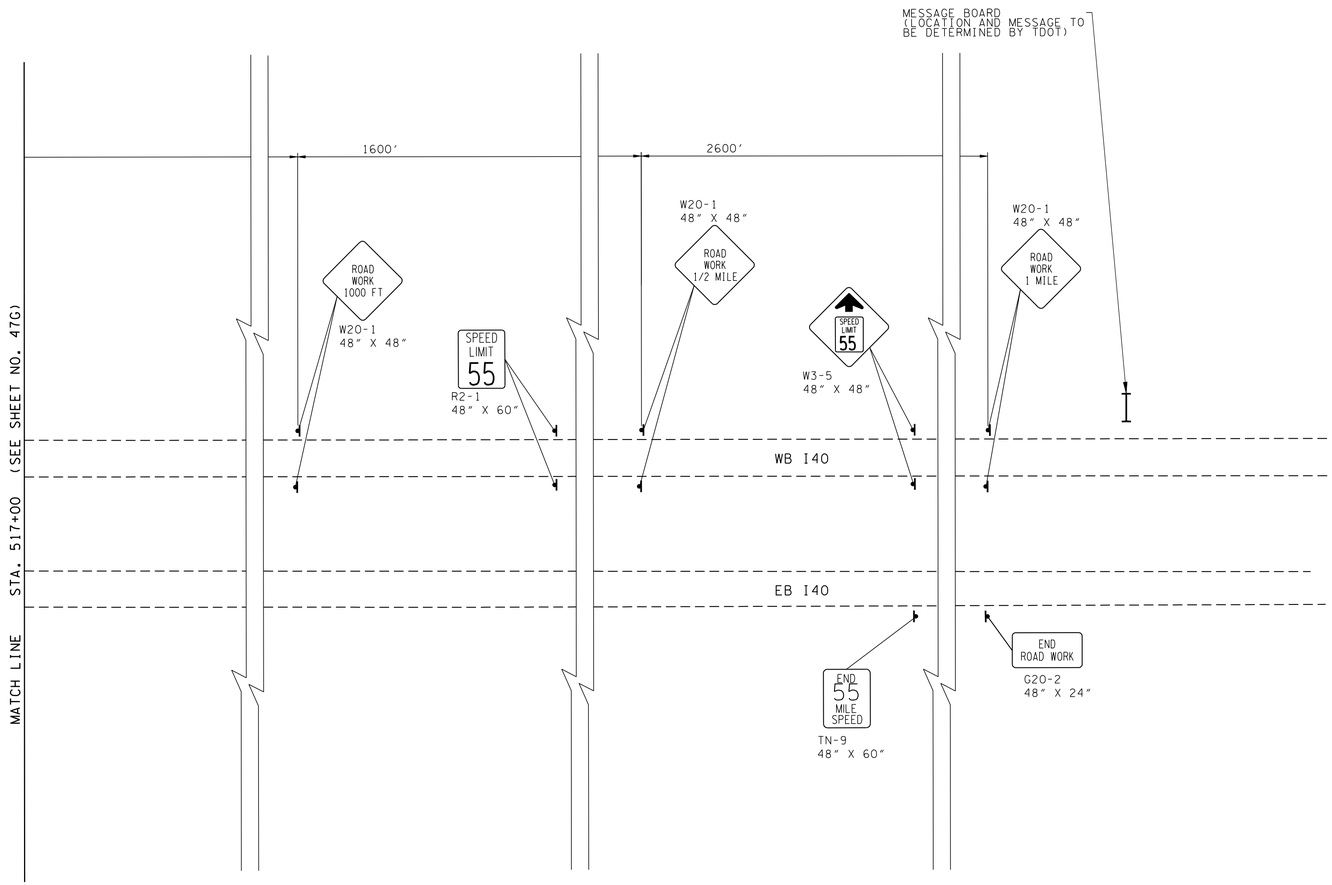
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47G

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 1

STA.517+00 TO E.O.P.

SCALE: 1"=50'

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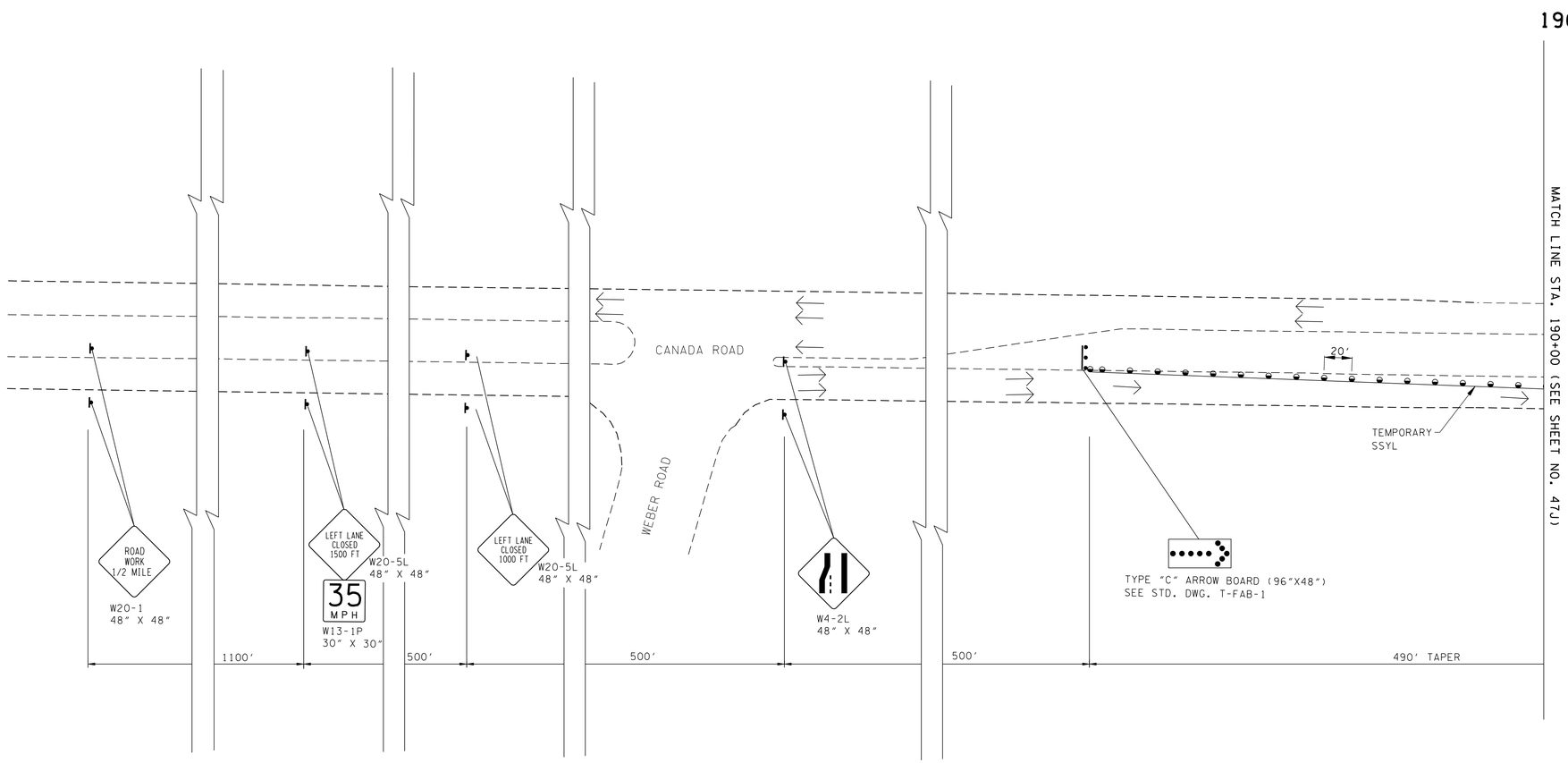
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47H

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 1

B.O.P. TO STA.190+00

SCALE: 1"=50'

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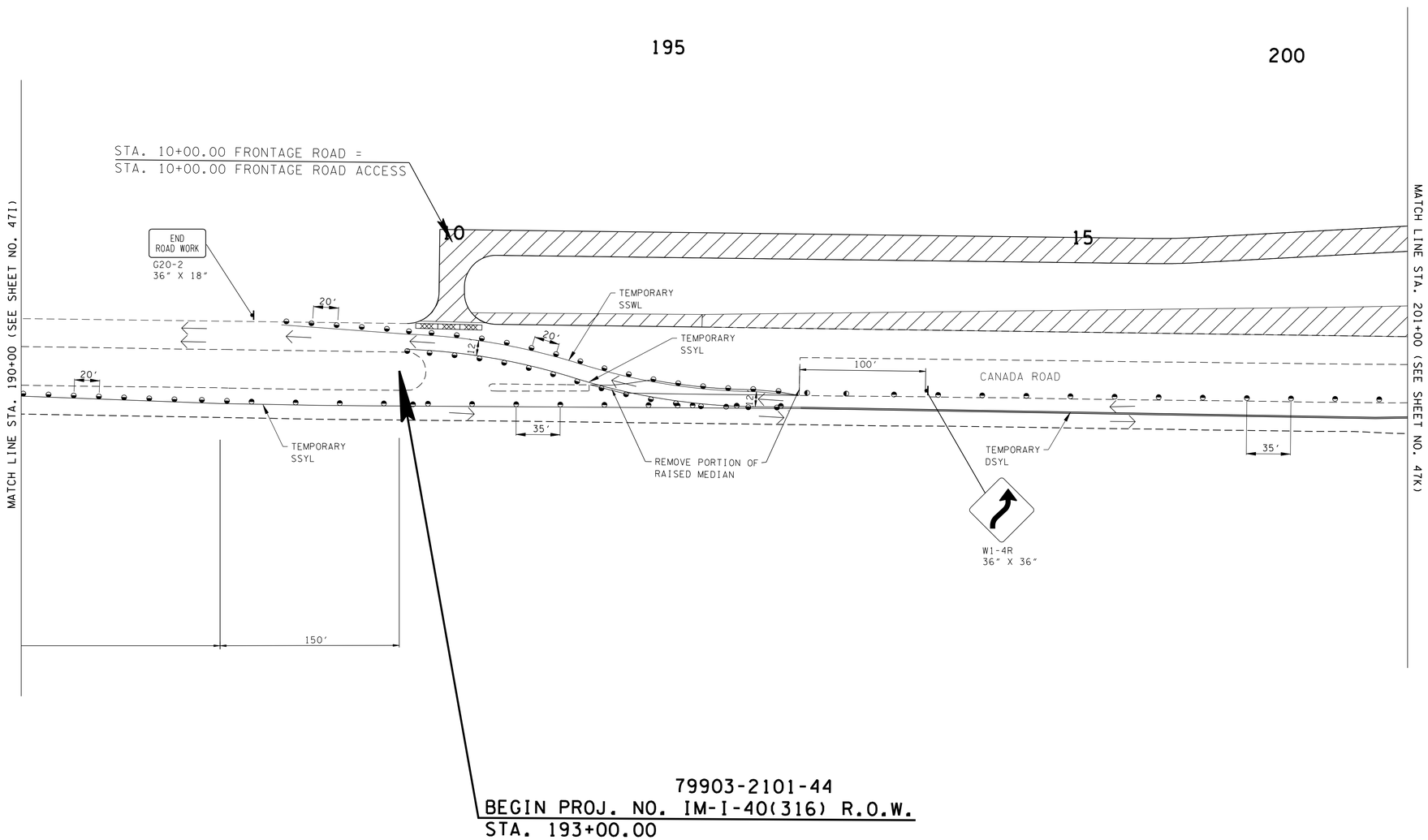
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	471

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA. 190+00 TO STA.201+00

SCALE: 1"=50'

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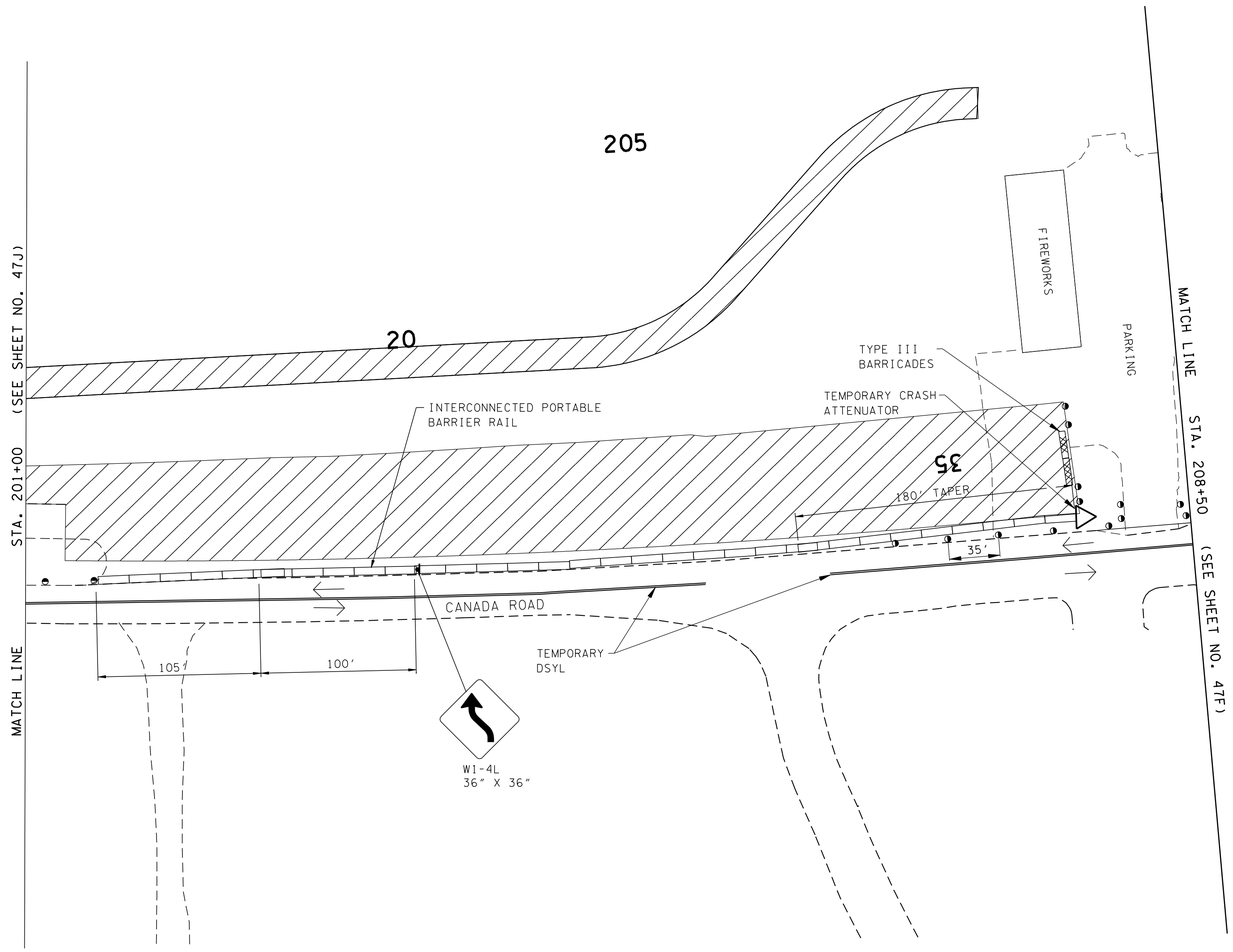
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47J

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

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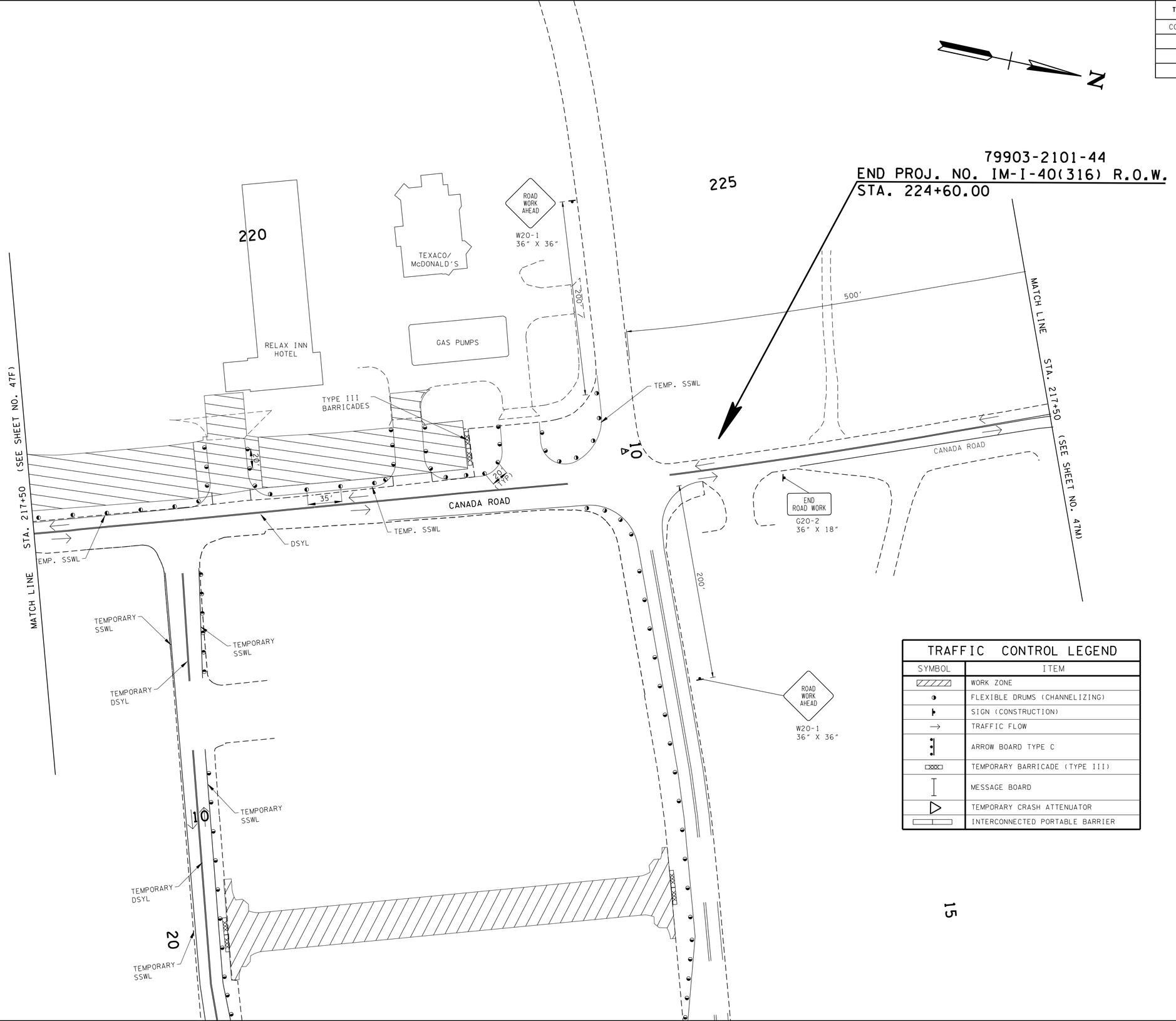
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47K



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER

UNOFFICIAL SET

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CHARLES ROBERT OCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104563
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA.217+50 TO STA. 228+00

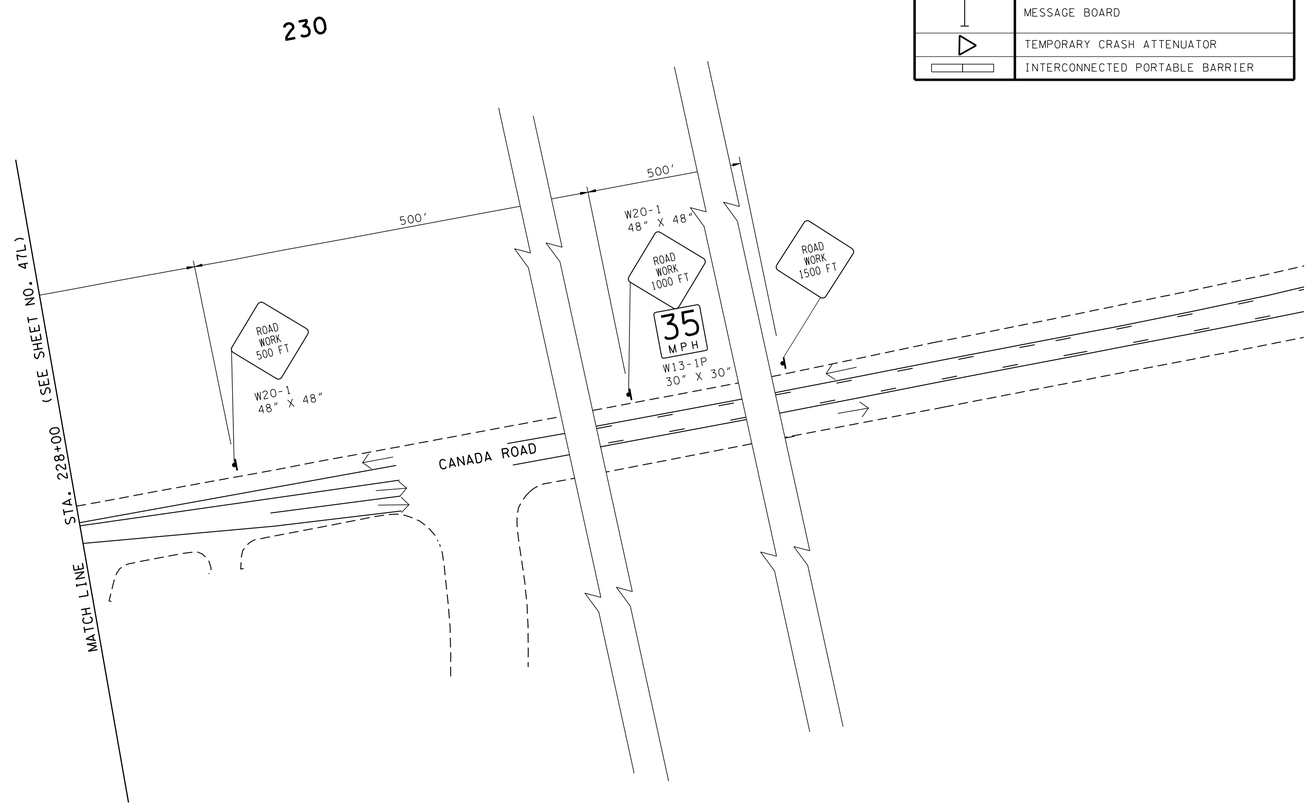
SCALE: 1"=50'

2/24/2014 4:53:25 PM
k:\proj\tdot_canadar_d_7779_prelimplans\construction plans\047K TrafficControlPhase1-SHT10.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	47L

TRAFFIC CONTROL LEGEND

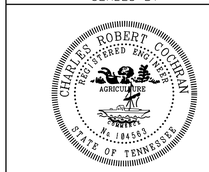
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 1

STA.217+50 TO E.O.P.

SCALE: 1"=50'

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k:\proj\tdot_canadard_7779_prelimplans\construction plans\047L TrafficControlPhase1-SHT1L.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48

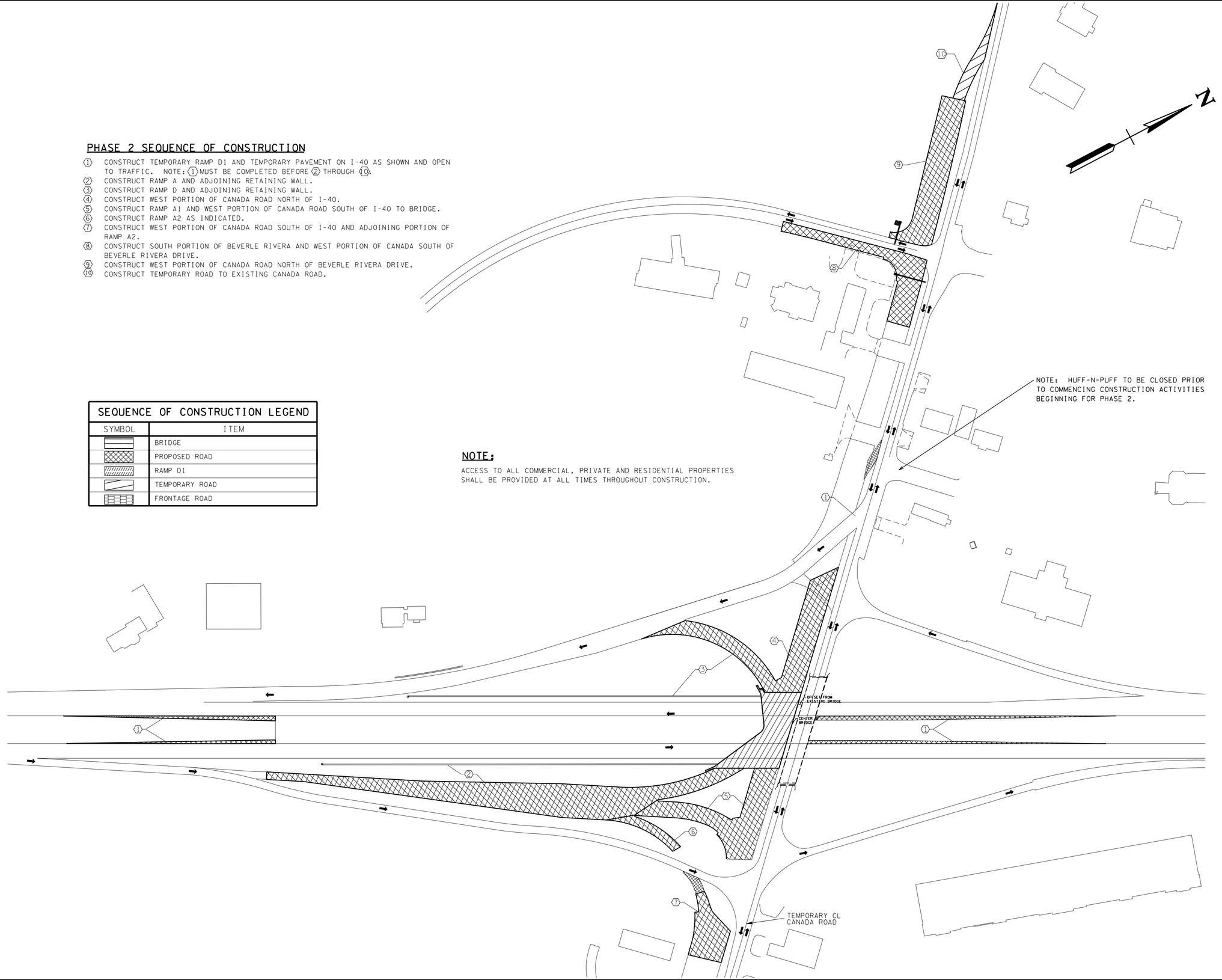
PHASE 2 SEQUENCE OF CONSTRUCTION

1. CONSTRUCT TEMPORARY RAMP D1 AND TEMPORARY PAVEMENT ON I-40 AS SHOWN AND OPEN TO TRAFFIC. NOTE: (1) MUST BE COMPLETED BEFORE (2) THROUGH (10).
2. CONSTRUCT RAMP A AND ADJOINING RETAINING WALL.
3. CONSTRUCT RAMP D AND ADJOINING RETAINING WALL.
4. CONSTRUCT WEST PORTION OF CANADA ROAD NORTH OF I-40.
5. CONSTRUCT RAMP A1 AND WEST PORTION OF CANADA ROAD SOUTH OF I-40 TO BRIDGE.
6. CONSTRUCT RAMP A2 AS INDICATED.
7. CONSTRUCT WEST PORTION OF CANADA ROAD SOUTH OF I-40 AND ADJOINING PORTION OF RAMP A2.
8. CONSTRUCT SOUTH PORTION OF BEVERLE RIVERA AND WEST PORTION OF CANADA SOUTH OF BEVERLE RIVERA DRIVE.
9. CONSTRUCT WEST PORTION OF CANADA ROAD NORTH OF BEVERLE RIVERA DRIVE.
10. CONSTRUCT TEMPORARY ROAD TO EXISTING CANADA ROAD.

SEQUENCE OF CONSTRUCTION LEGEND	
SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	RAMP D1
	TEMPORARY ROAD
	FRONTAGE ROAD

NOTE:

ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



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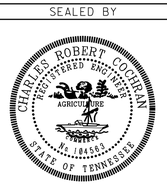
SEALED BY



STATE OF TENNESSEE
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TRAFFIC CONTROL PLAN PHASE 2

SEQUENCE OF CONSTRUCTION

NOT TO SCALE

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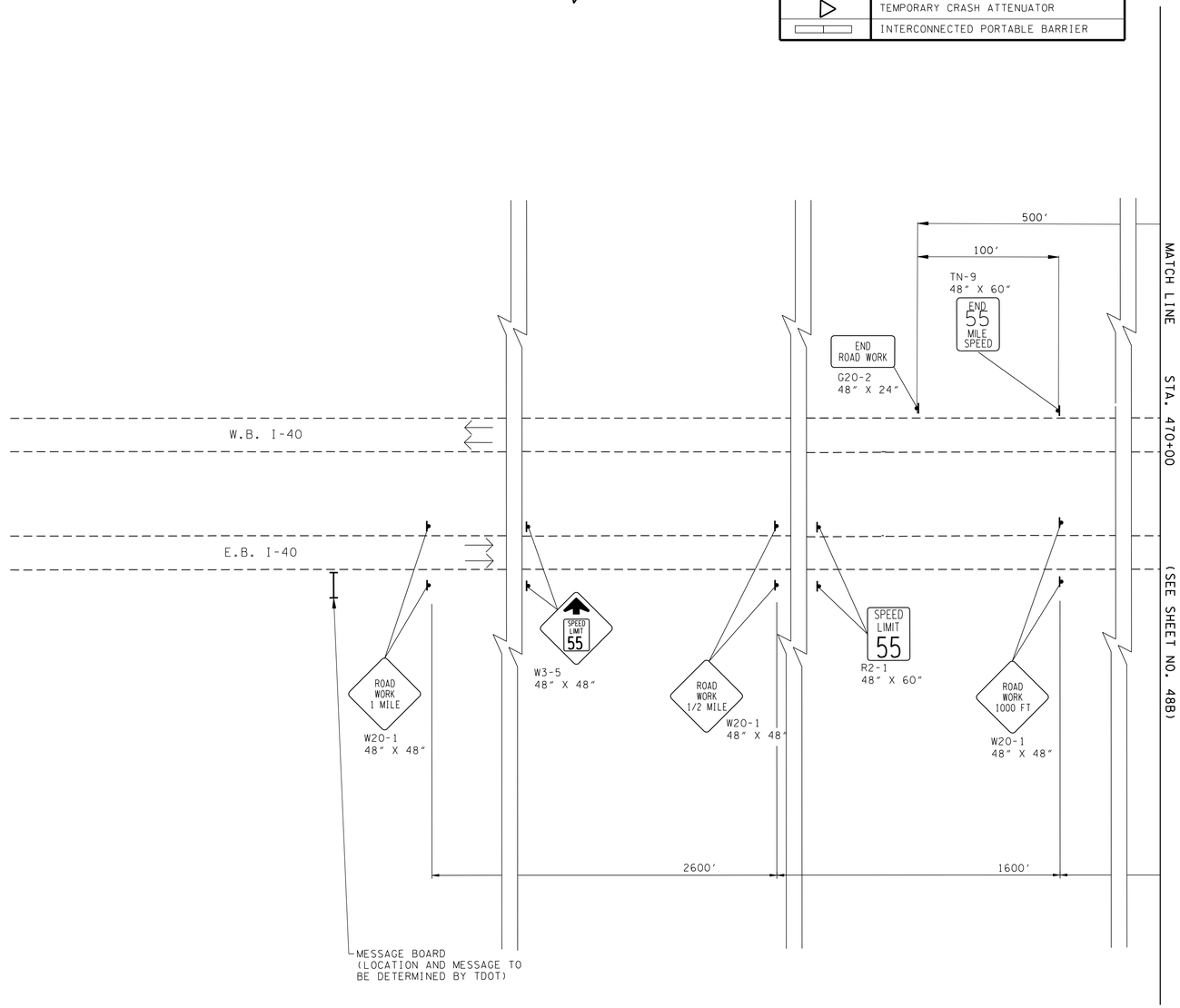
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

B.O.P. TO STA.470+00

SCALE: 1"=50'

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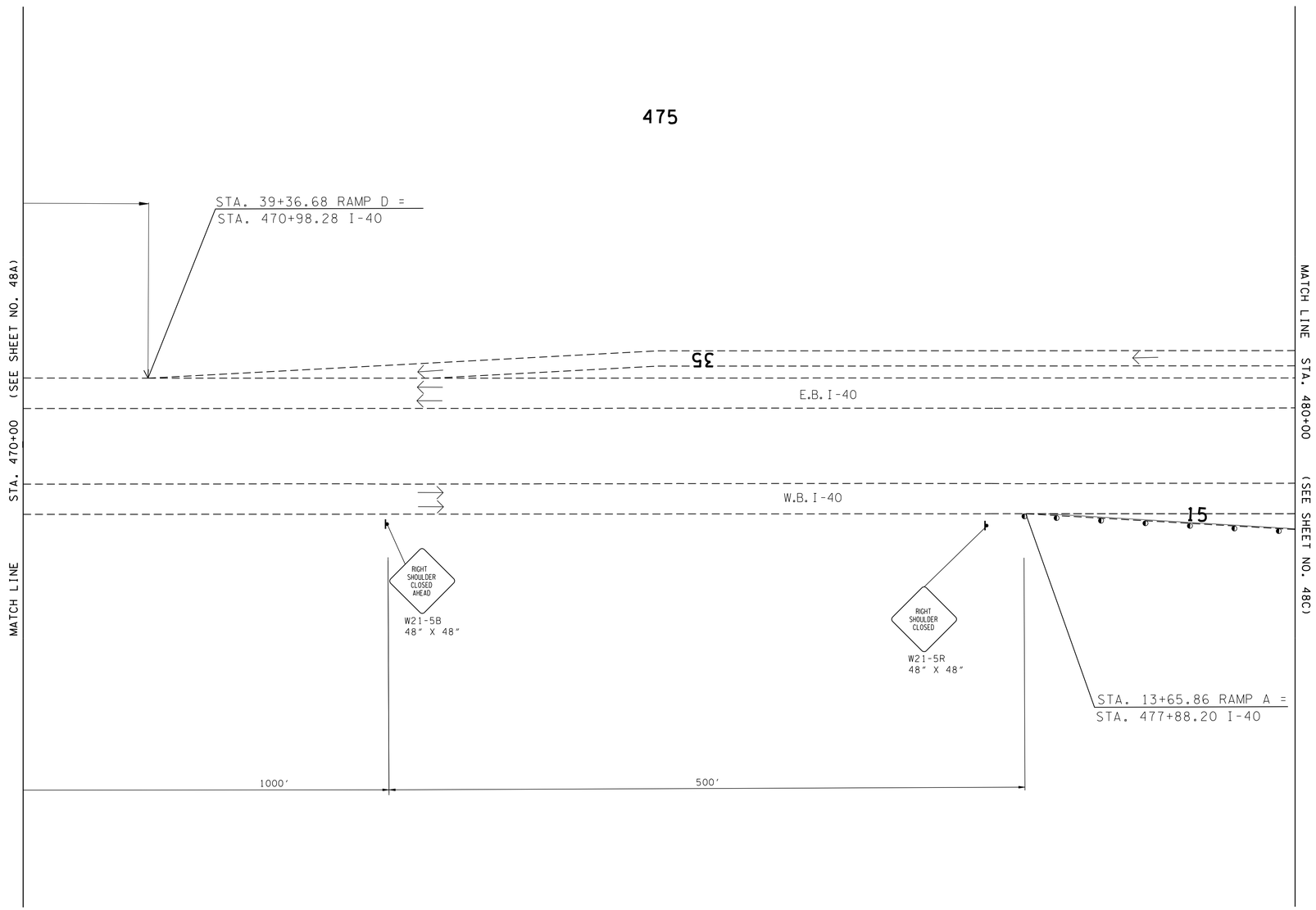
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48B

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA. 470+00 TO STA.480+00

SCALE: 1"=50'

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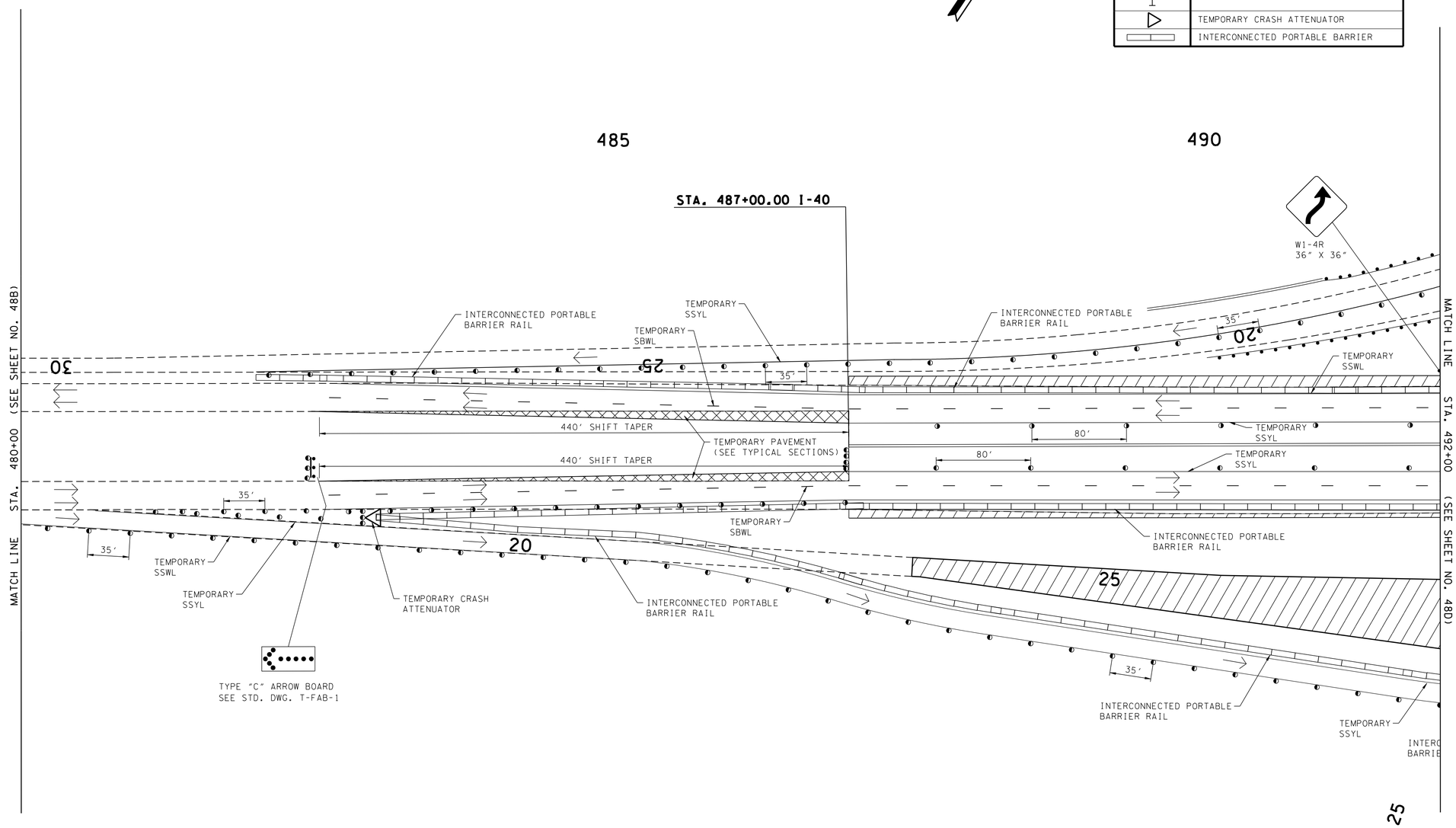
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48C

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA.480+00 TO STA.492+00

SCALE: 1"=50'

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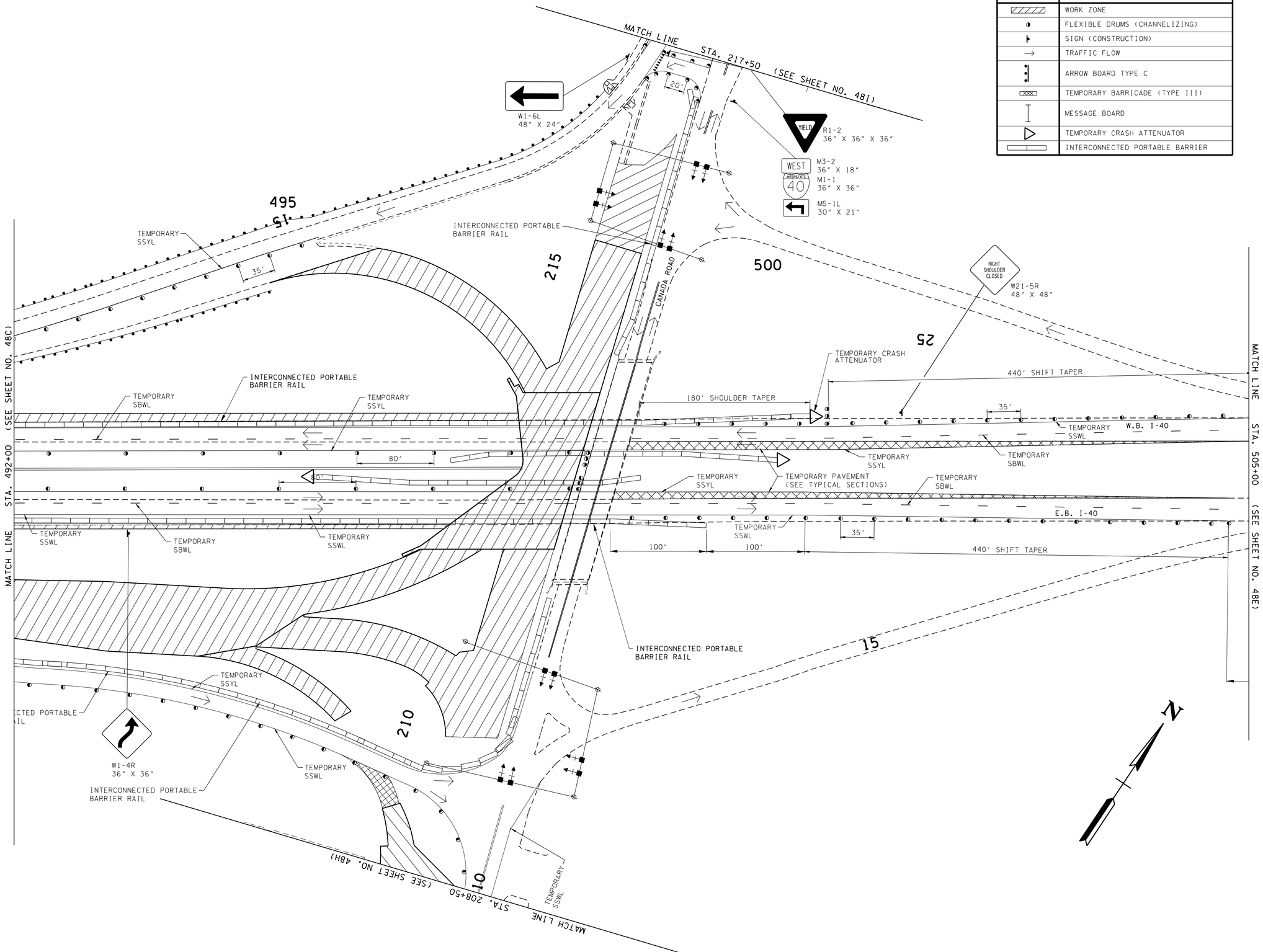
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48D

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA.492+00 TO STA.505+00

SCALE: 1"=50'

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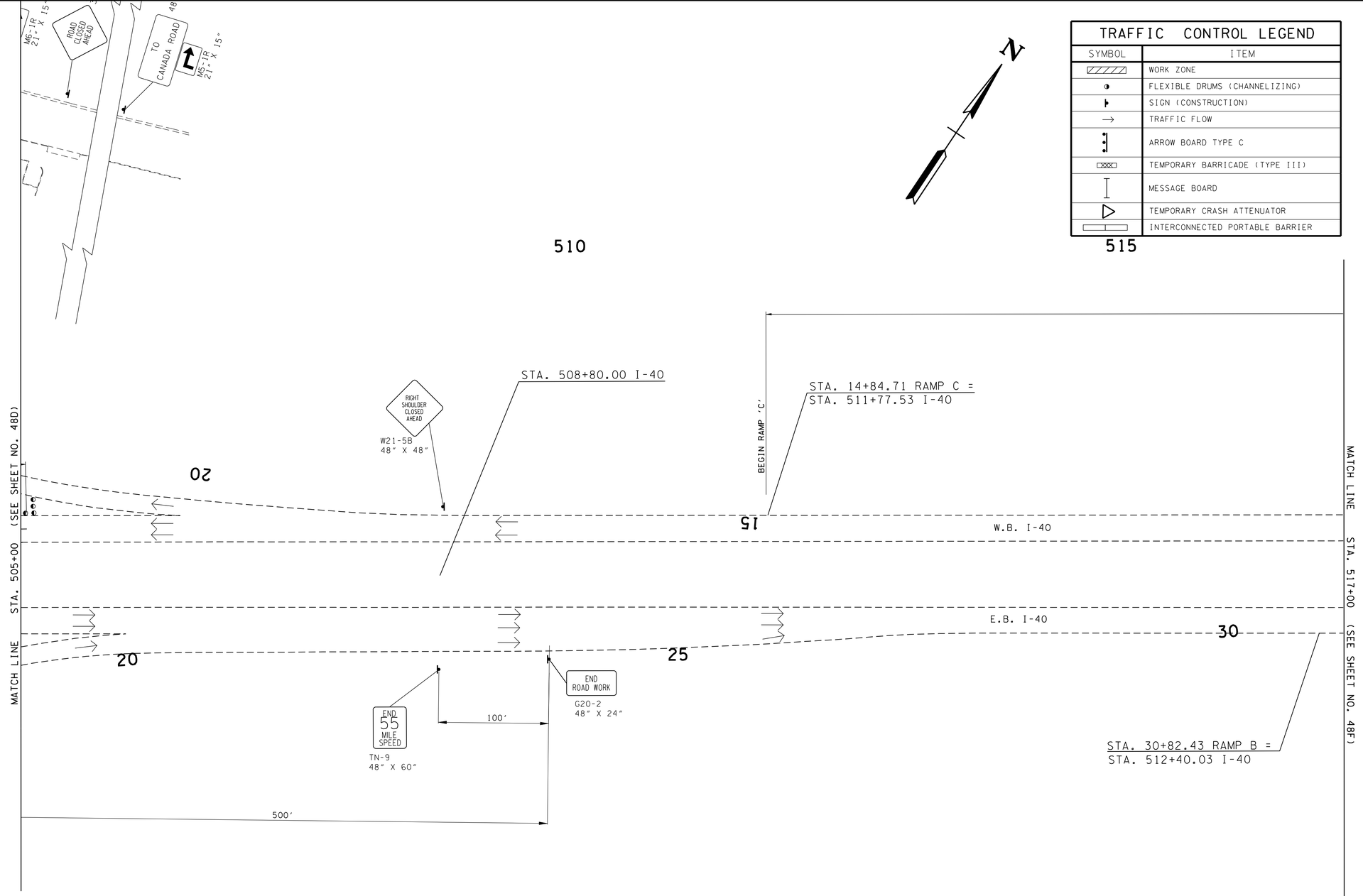
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA.505+00 TO STA. 517+00

SCALE: 1"=50'

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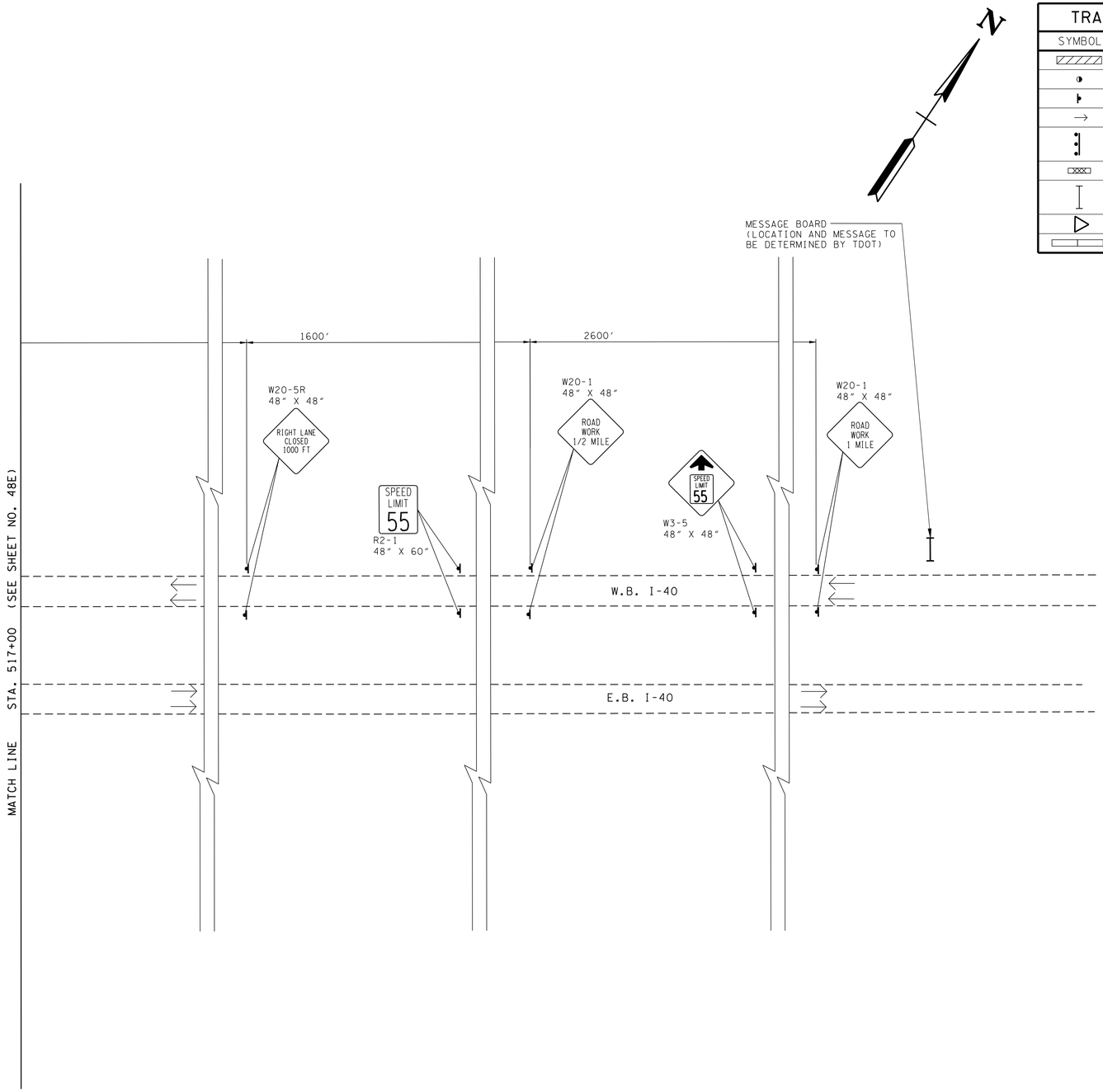
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48F

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA.517+00 TO E.O.P.

SCALE: 1"=50'

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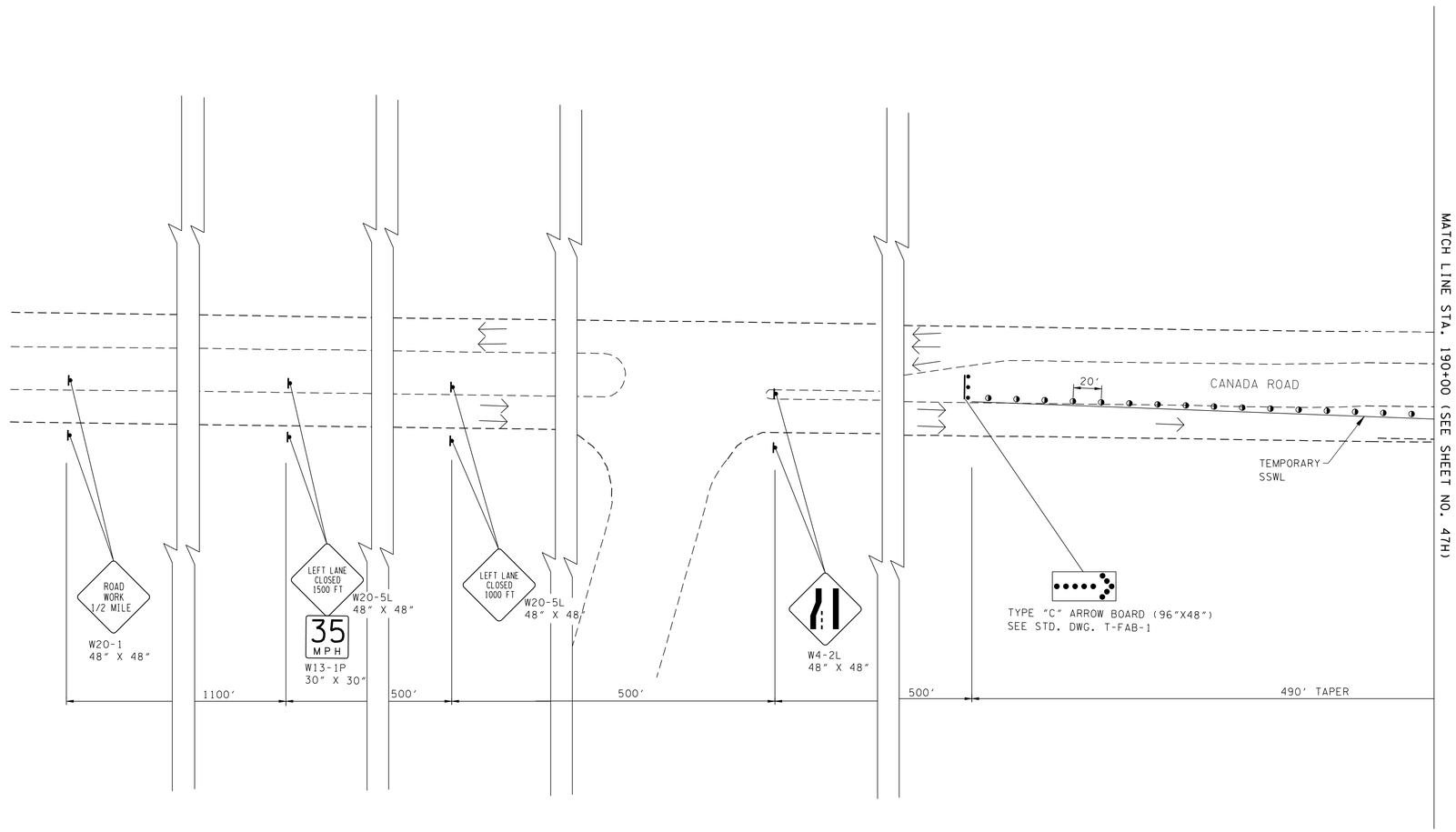
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48G

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

B.O.P. TO STA.190+00

SCALE: 1"=50'

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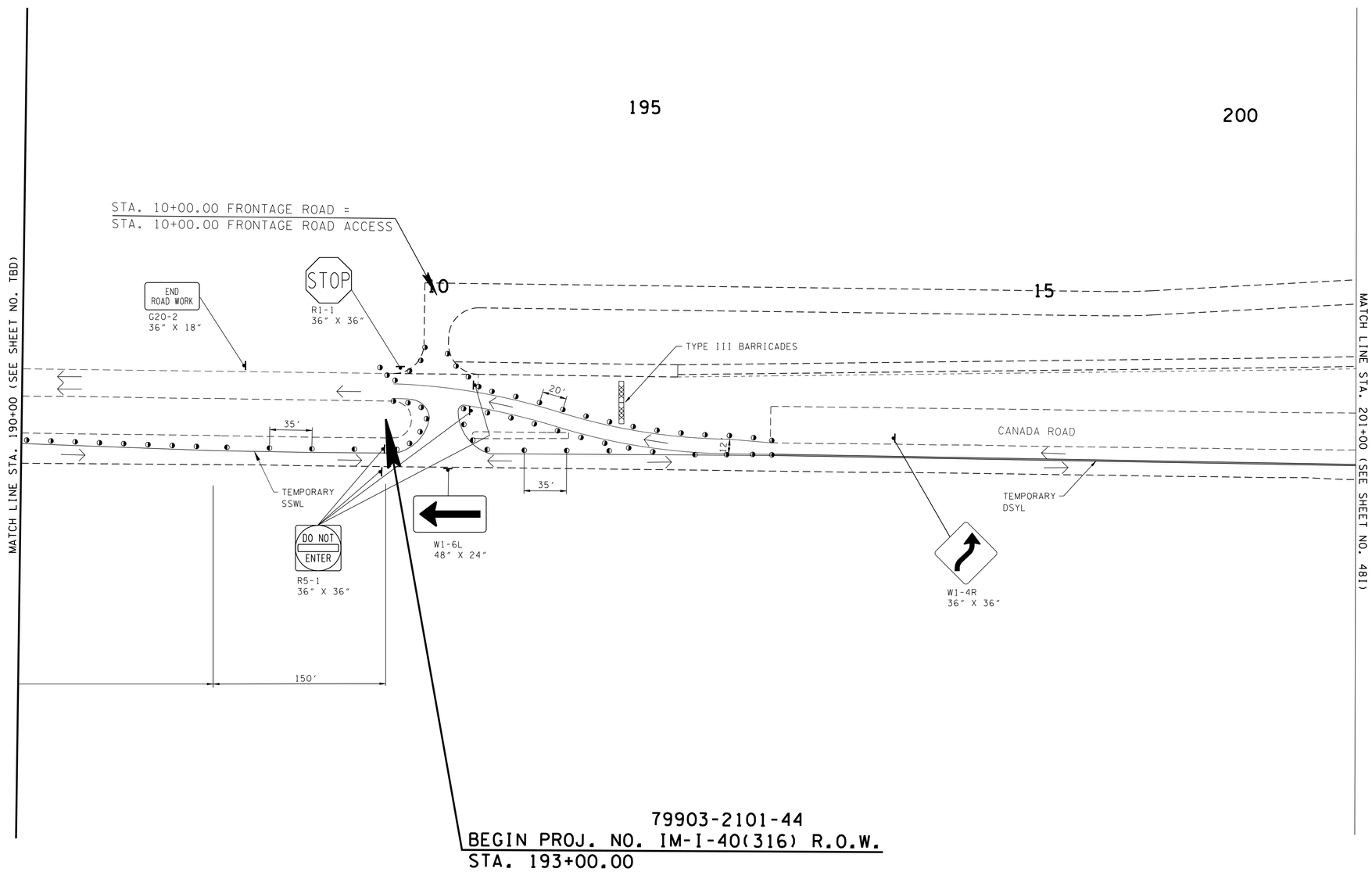
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48H

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA. 190+00 TO STA.201+00

SCALE: 1"=50'

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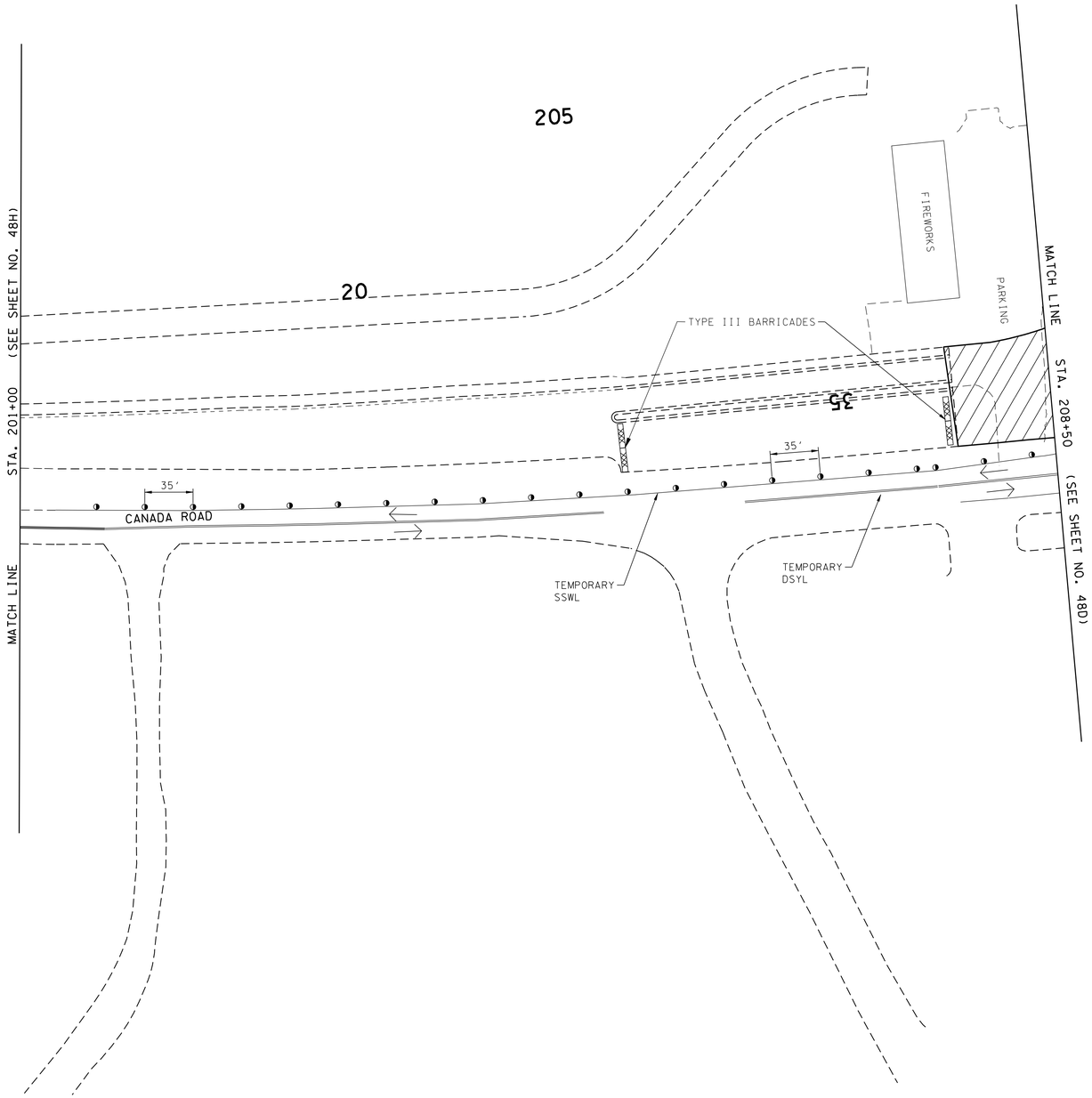
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48I

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA.201+00 TO STA.208+50

SCALE: 1"=50'

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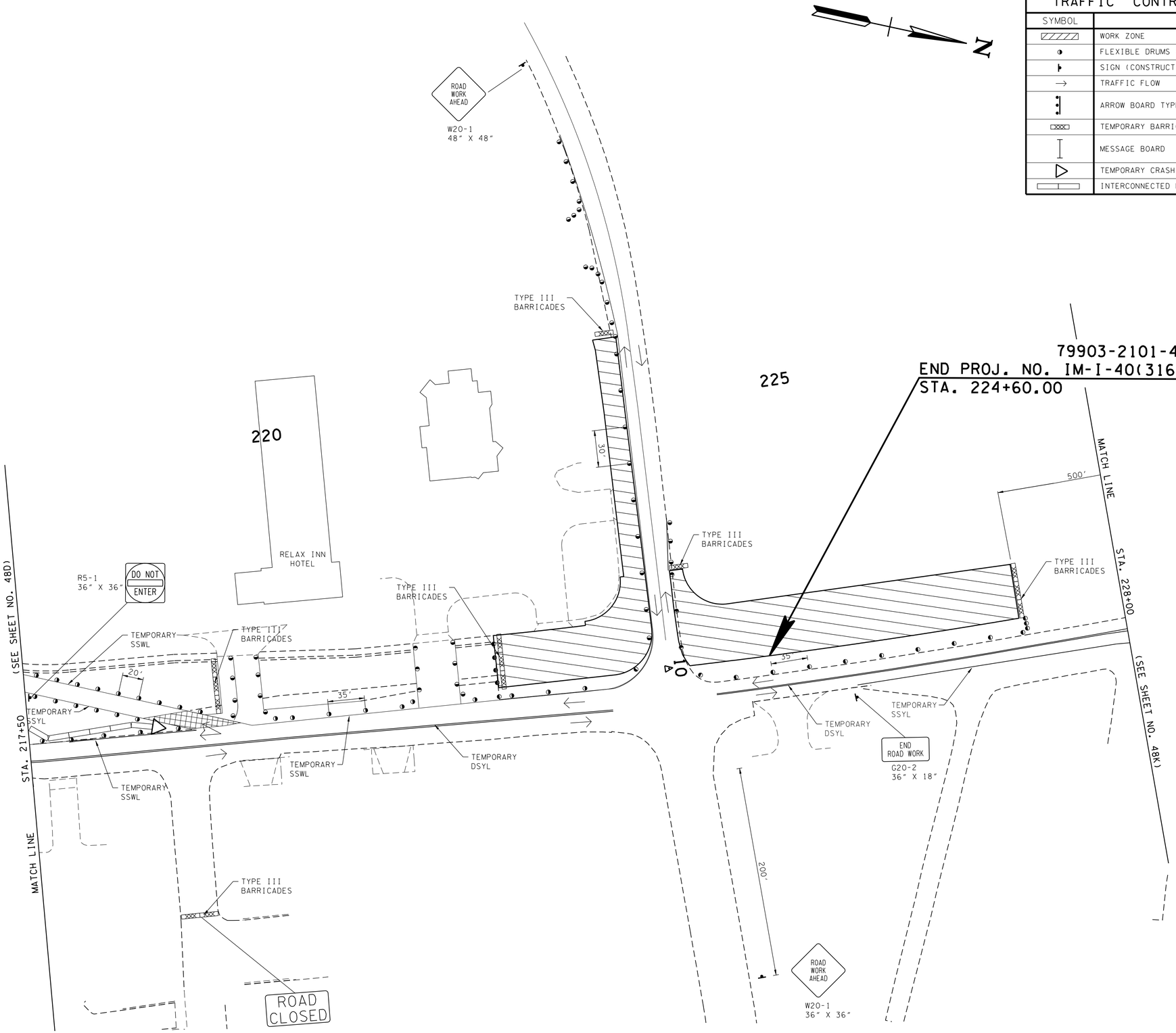
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48J

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA.217+50 TO STA. 228+00

SCALE: 1"=50'

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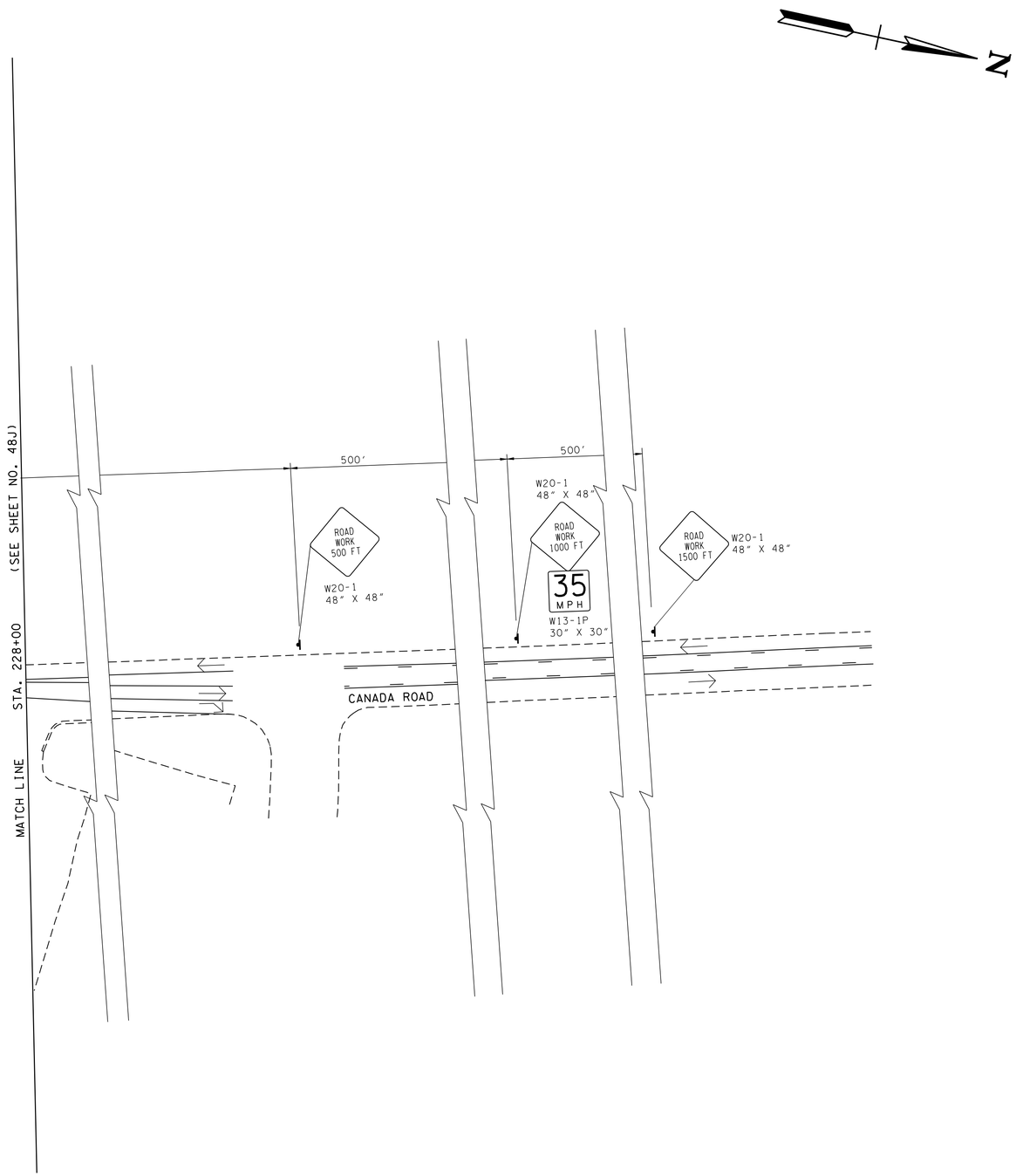
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	48K

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 2

STA.228+00 TO E.O.P.

SCALE: 1"=50'

2/24/2014 1:53:49 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49

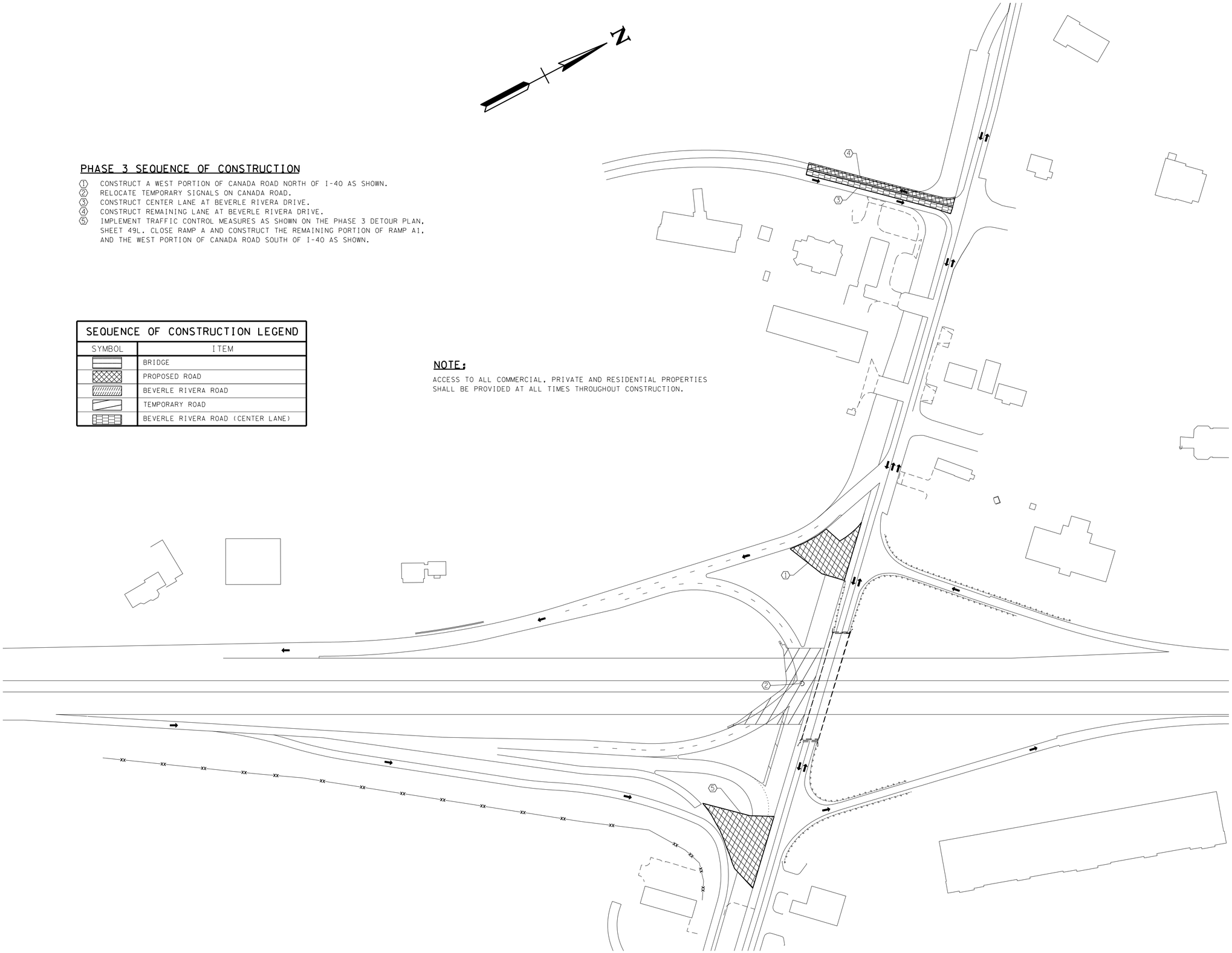
PHASE 3 SEQUENCE OF CONSTRUCTION

1. CONSTRUCT A WEST PORTION OF CANADA ROAD NORTH OF I-40 AS SHOWN.
2. RELOCATE TEMPORARY SIGNALS ON CANADA ROAD.
3. CONSTRUCT CENTER LANE AT BEVERLE RIVERA DRIVE.
4. CONSTRUCT REMAINING LANE AT BEVERLE RIVERA DRIVE.
5. IMPLEMENT TRAFFIC CONTROL MEASURES AS SHOWN ON THE PHASE 3 DETOUR PLAN, SHEET 49L. CLOSE RAMP A AND CONSTRUCT THE REMAINING PORTION OF RAMP A1, AND THE WEST PORTION OF CANADA ROAD SOUTH OF I-40 AS SHOWN.

SEQUENCE OF CONSTRUCTION LEGEND	
SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	BEVERLE RIVERA ROAD
	TEMPORARY ROAD
	BEVERLE RIVERA ROAD (CENTER LANE)

NOTE:

ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



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TRAFFIC CONTROL PLAN PHASE 3

SEQUENCE OF CONSTRUCTION

NOT TO SCALE

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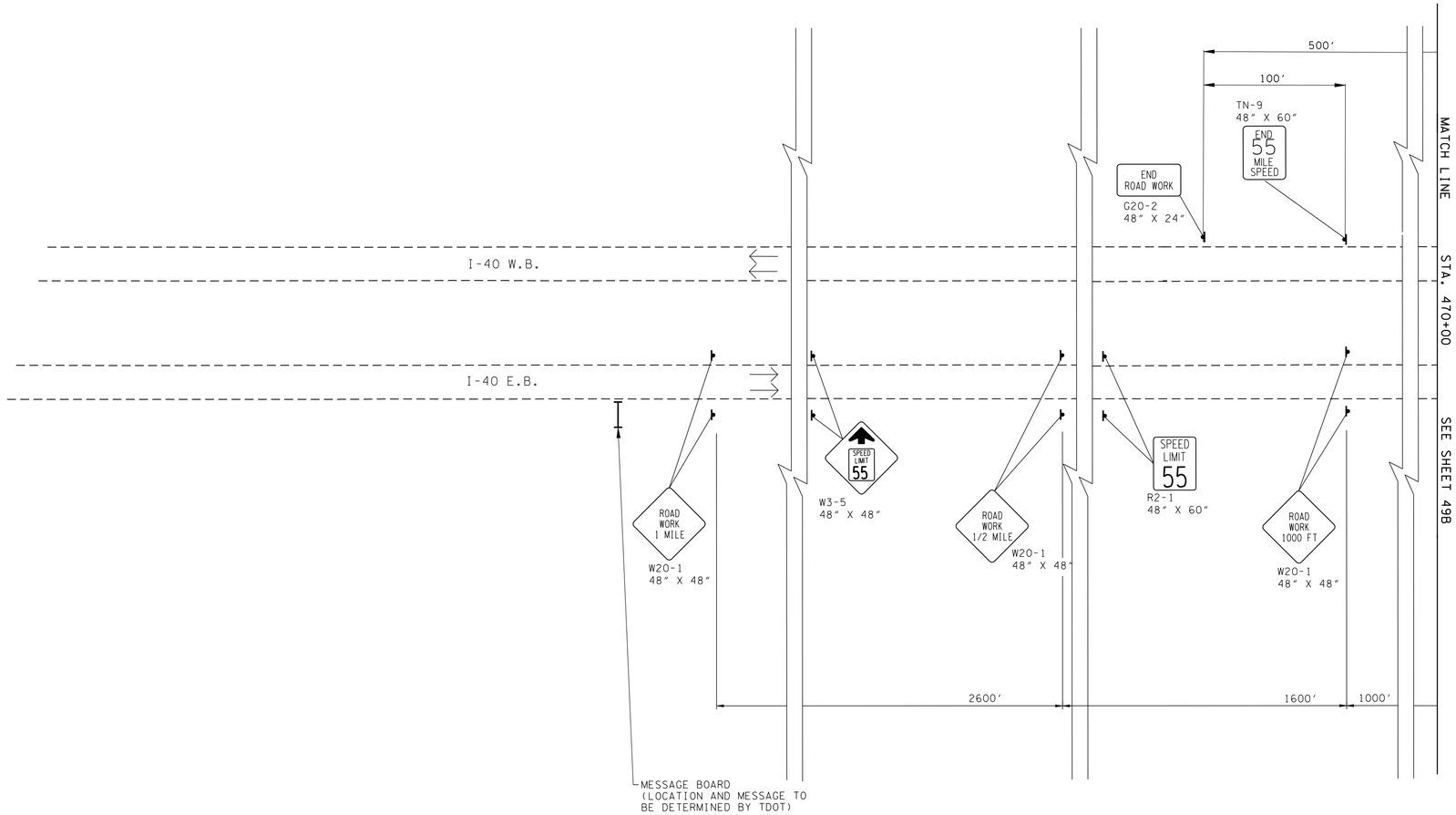
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 3

B.O.P. TO STA 470+00

SCALE: 1"=50'

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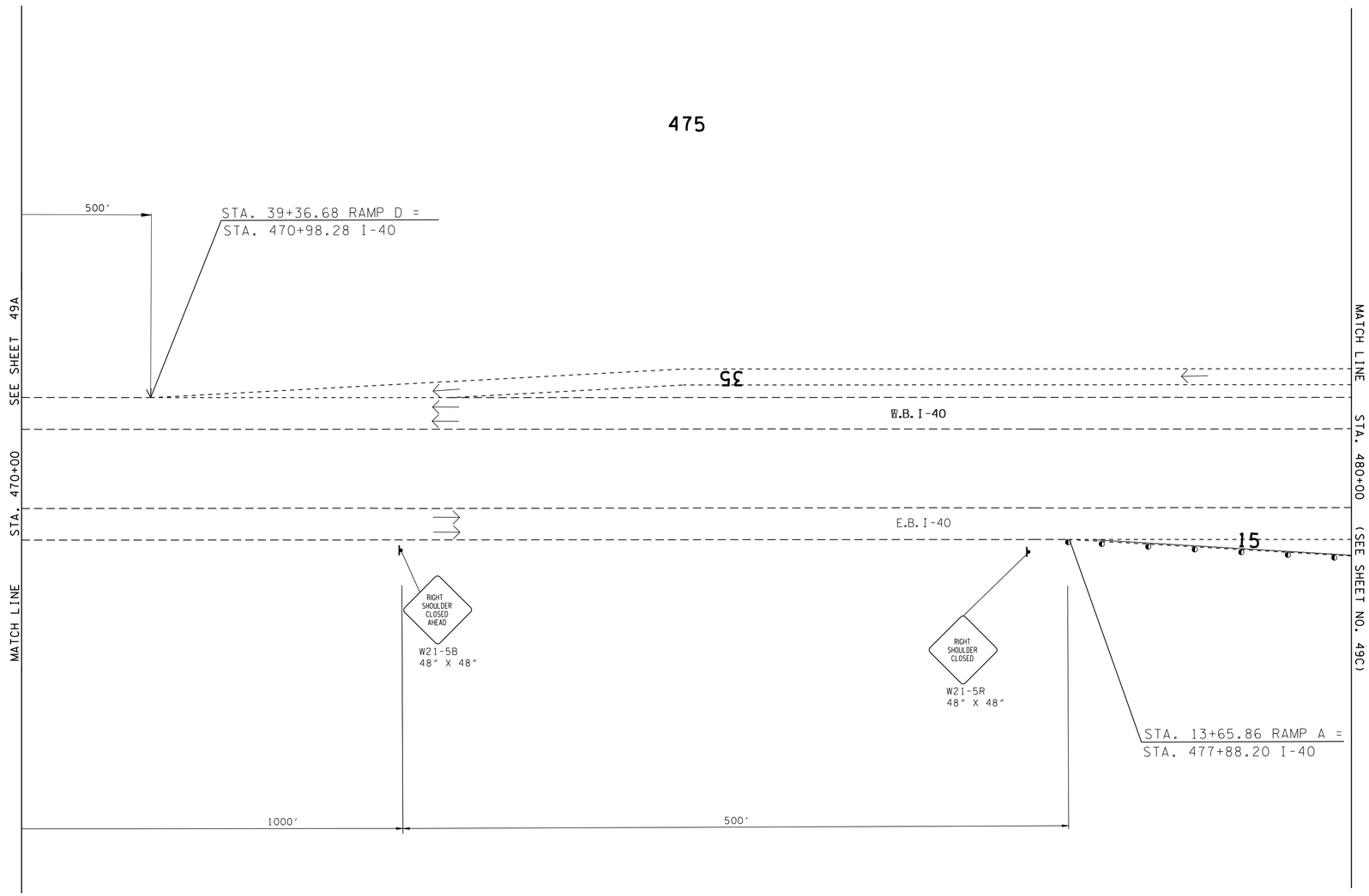
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49B

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 3

STA. 470+00 TO STA.480+00

SCALE: 1"=50'

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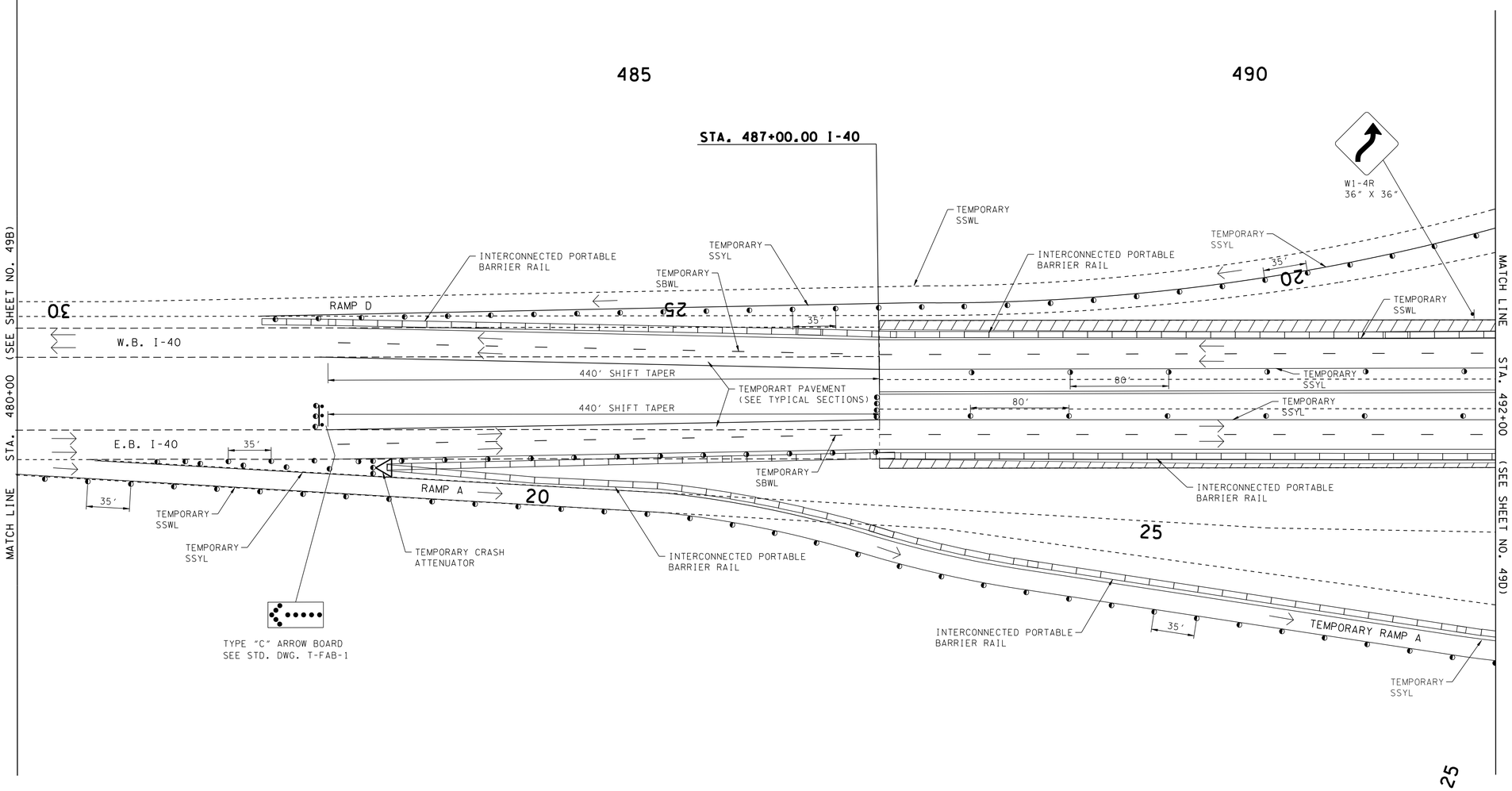
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49C

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 3

STA.480+00 TO STA.492+00

SCALE: 1"=50'

2/24/2014 1:53:57 PM
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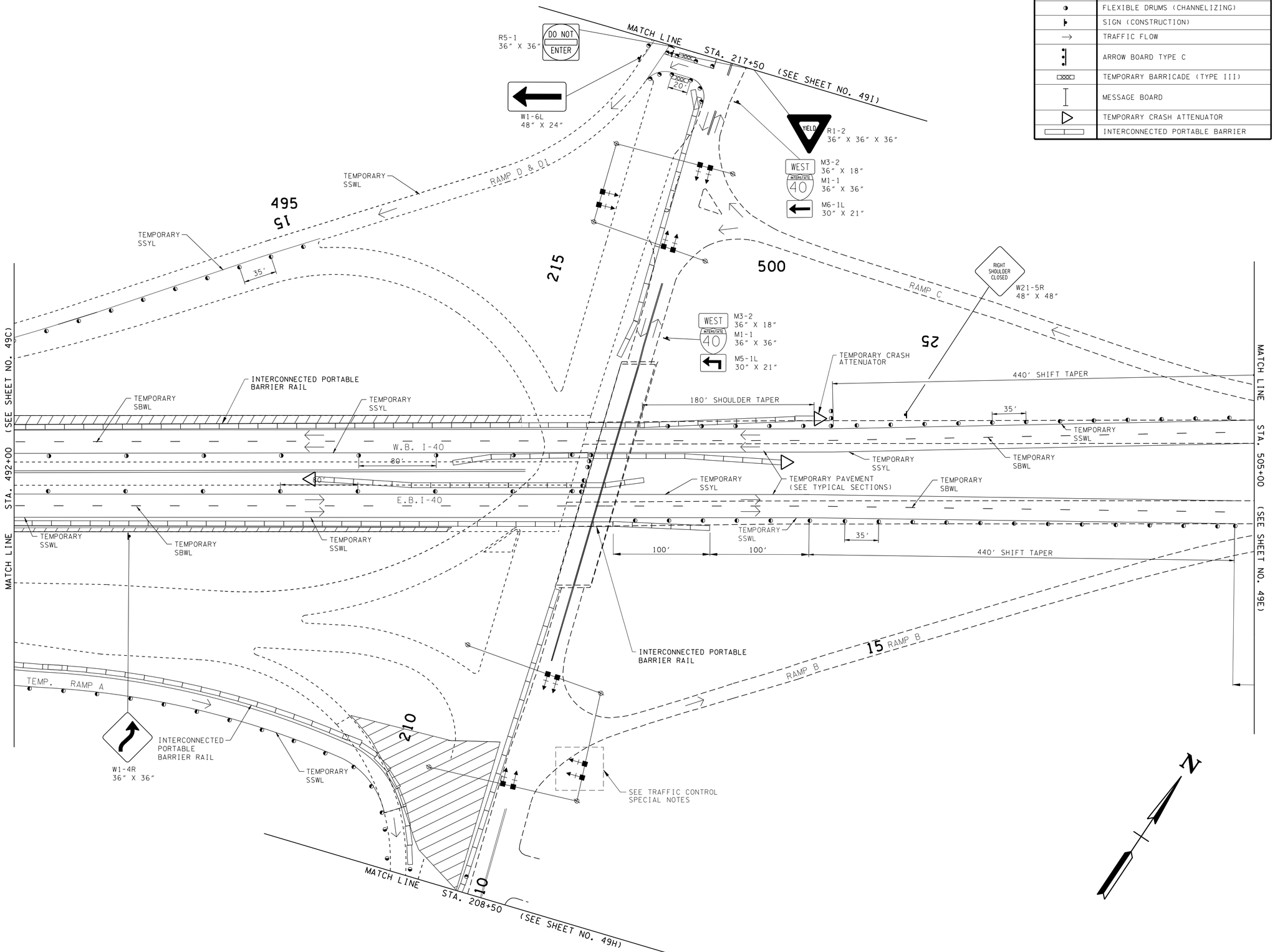
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49D

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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CHARLES ROBERT COCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104563
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA.492+00 TO STA.505+00

SCALE: 1"=50'

2/24/2014 1:54:01PM
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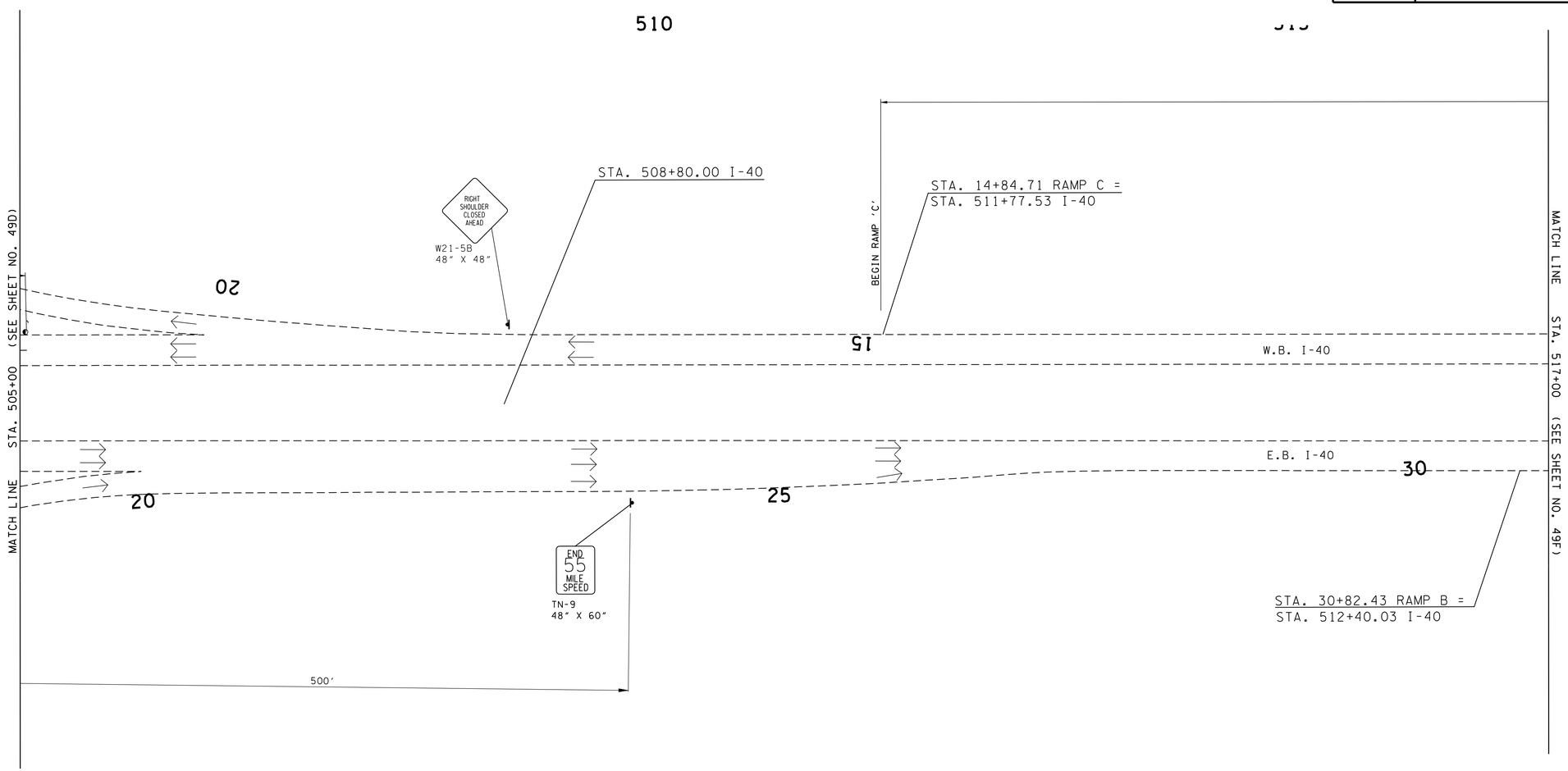
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA.505+00 TO STA. 517+00

SCALE: 1"=50'

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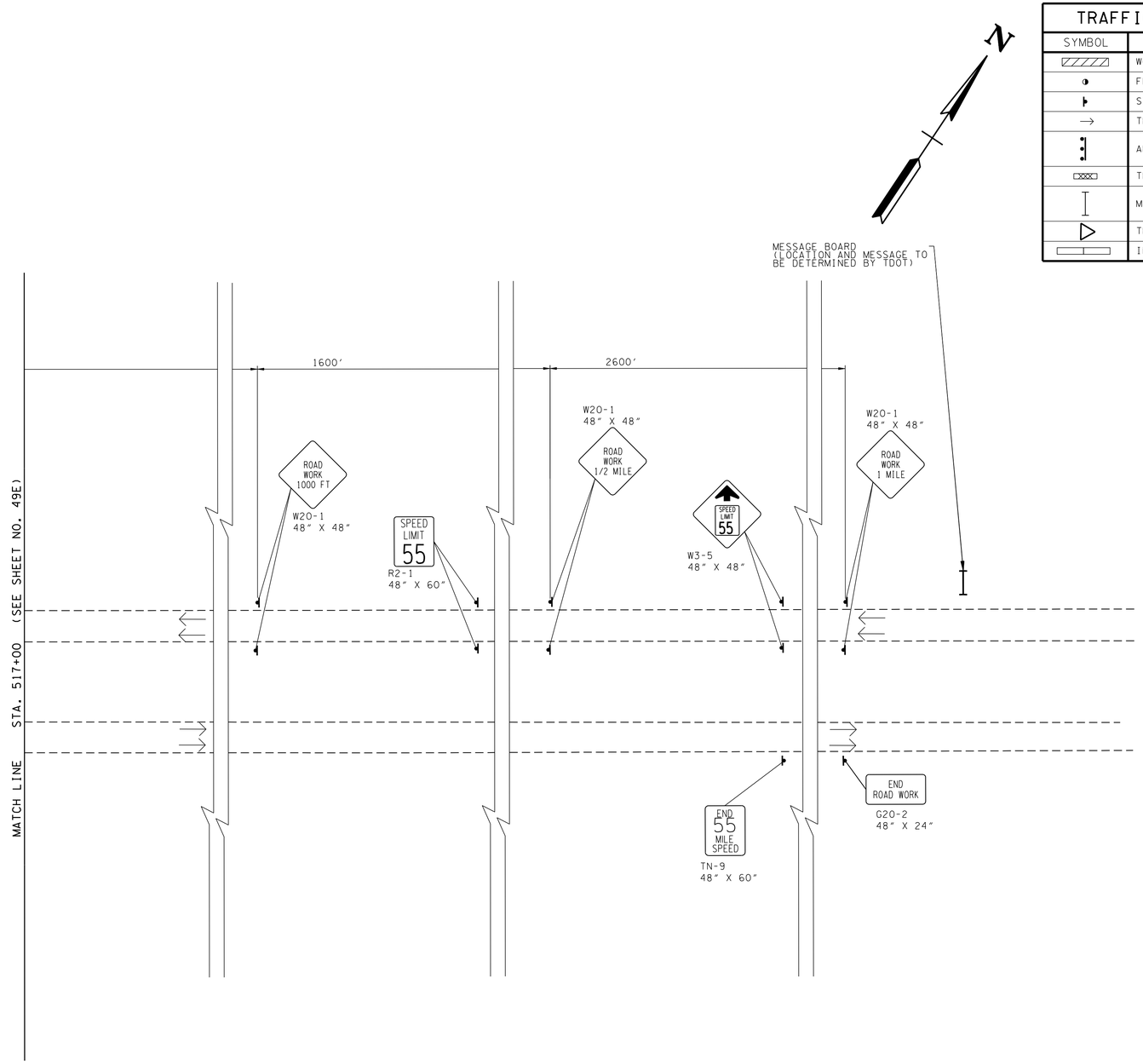
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49F

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA.517+00 TO E.O.P.

SCALE: 1"=50'

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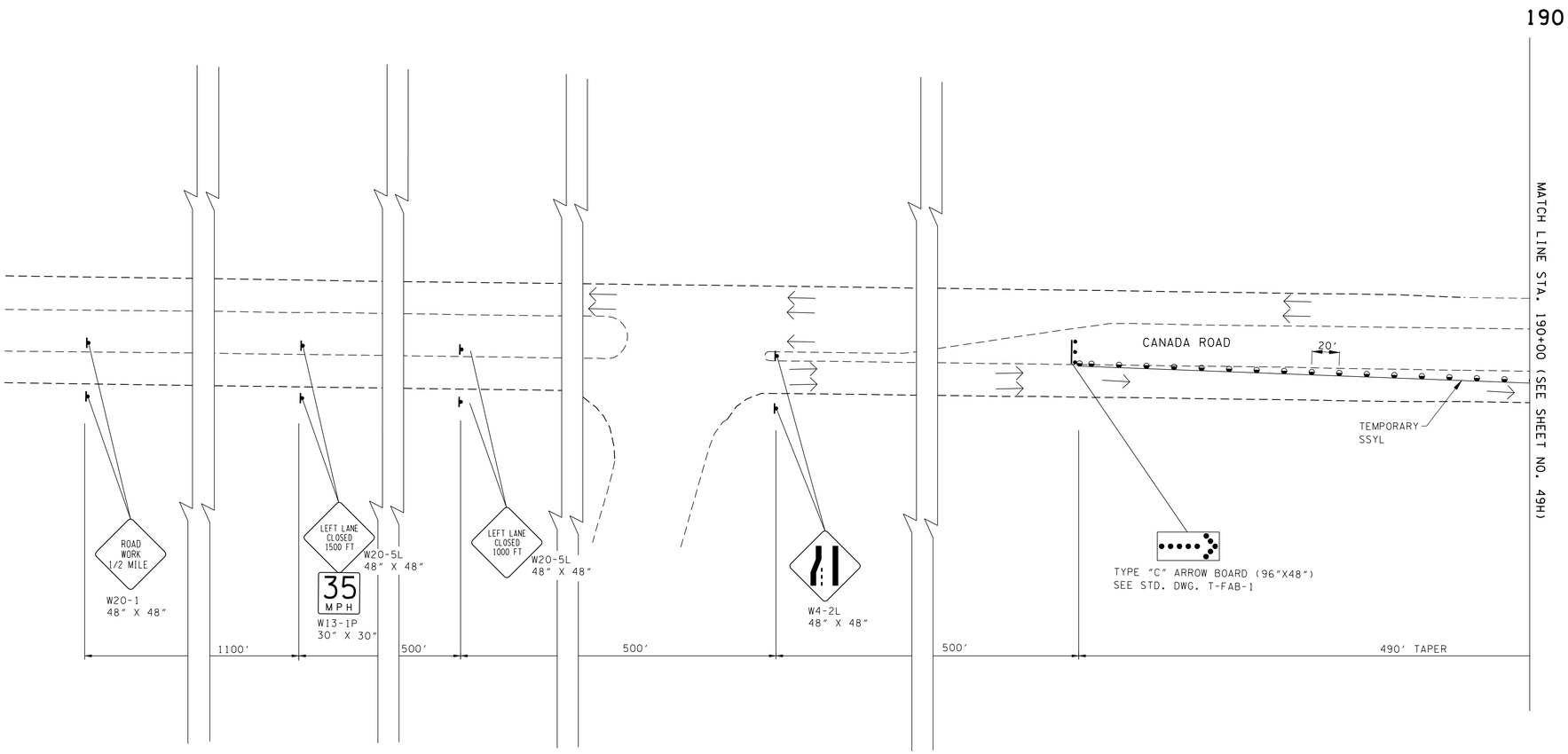
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49G

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

B.O.P. TO STA.190+00

SCALE: 1"=50'

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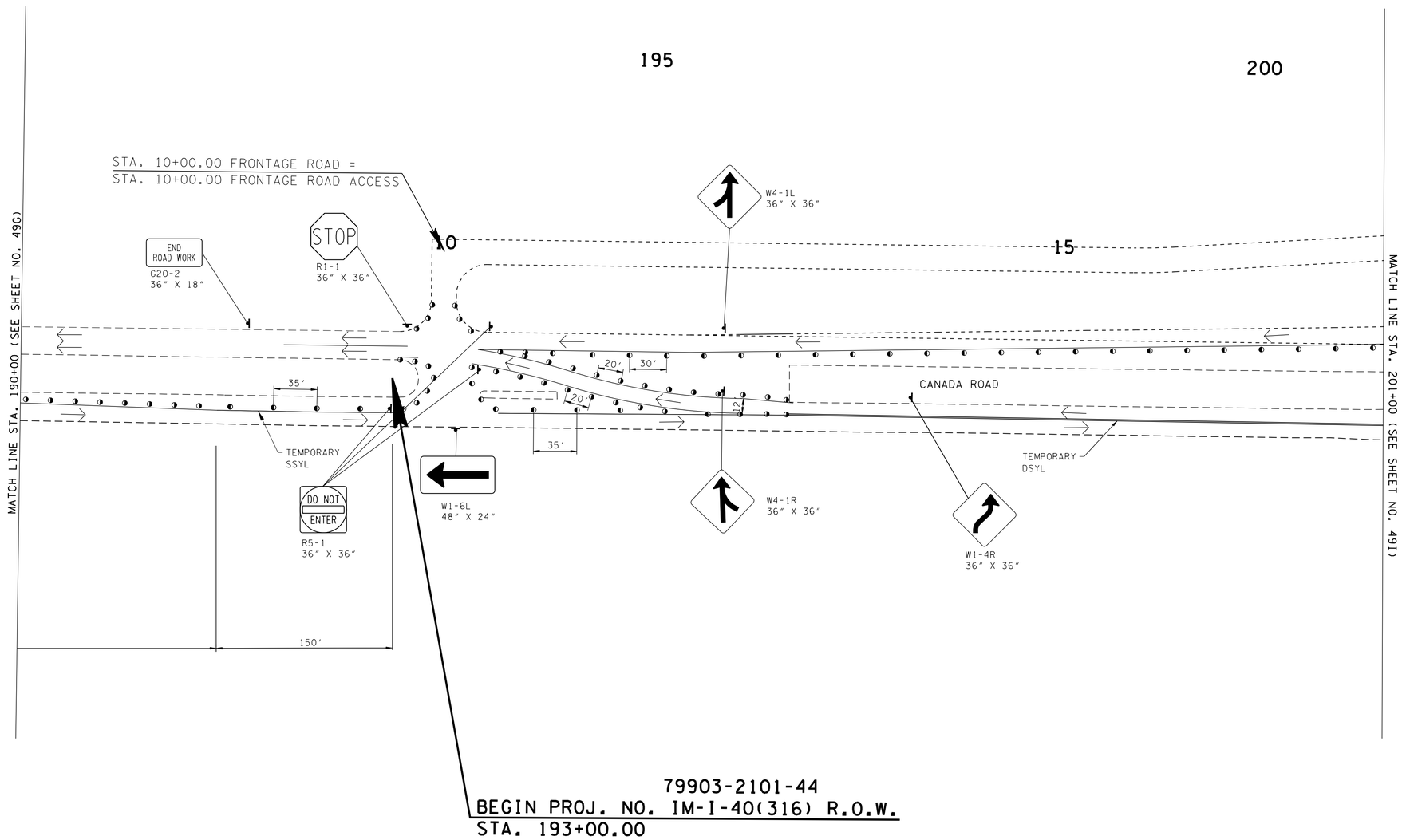
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49H

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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SEALED BY

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 190+00 TO STA.201+00

SCALE: 1"=50'

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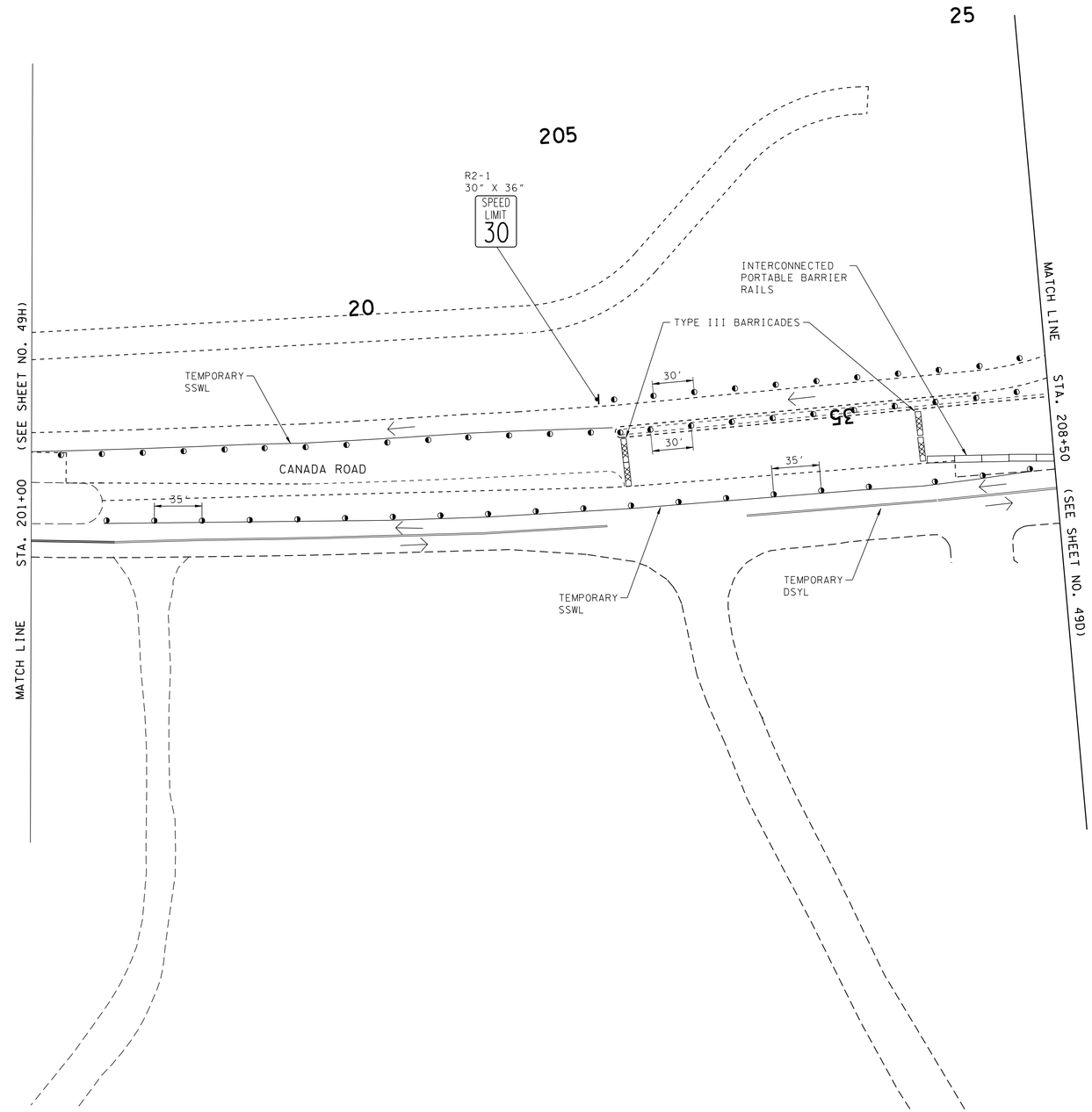
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49I

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

SCALE: 1"=50'

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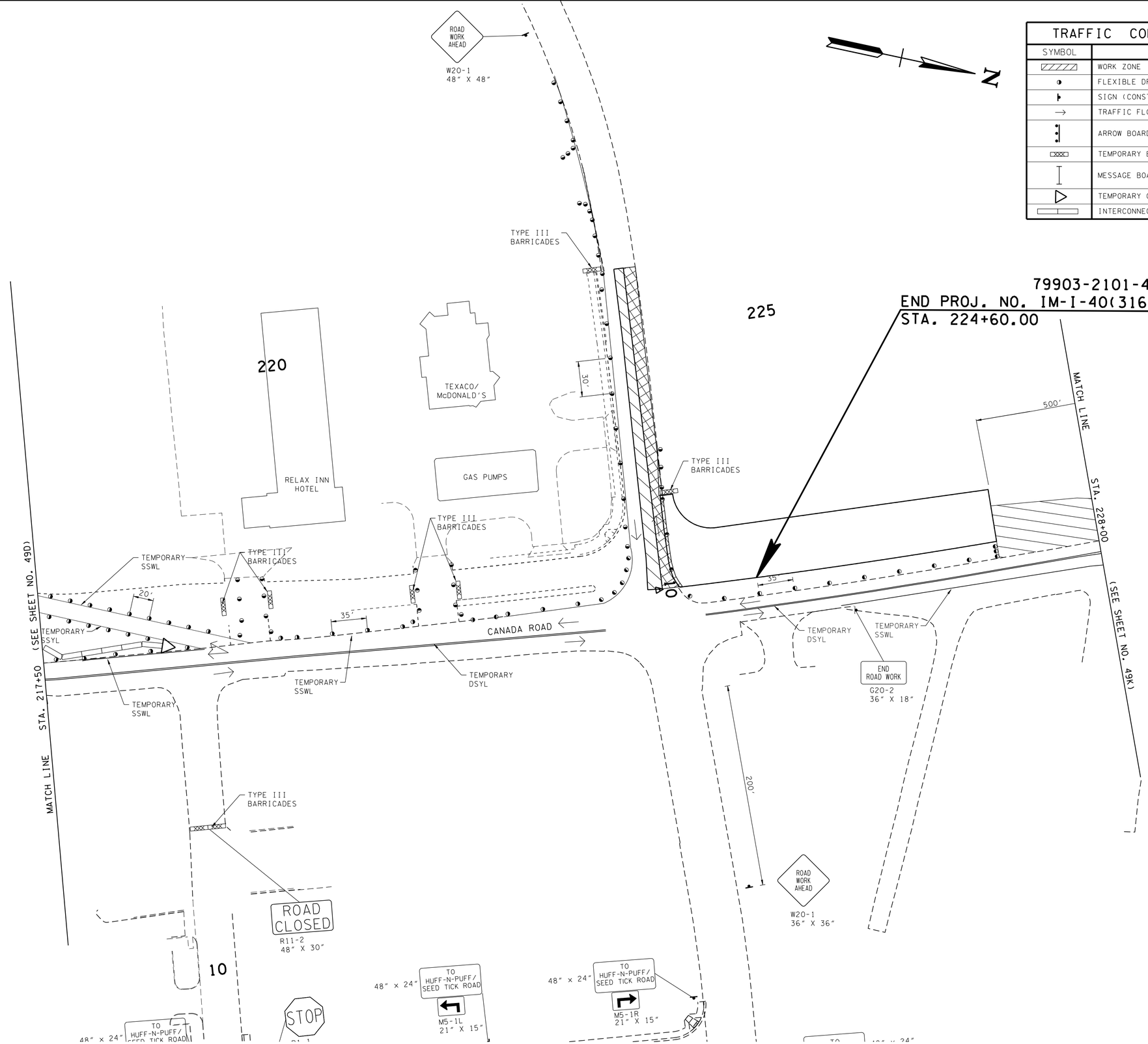
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49J

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA.217+50 TO STA. 228+00

SCALE: 1"=50'

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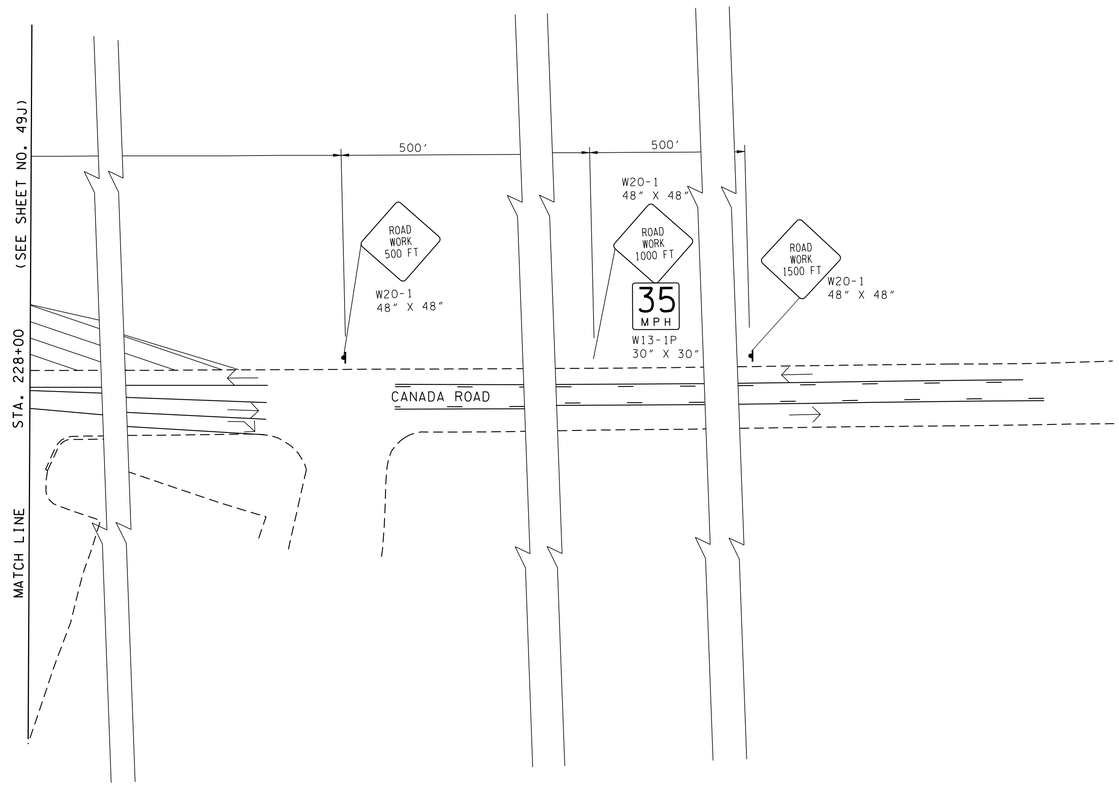
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49K

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER

N

230



UNOFFICIAL SET

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TRAFFIC CONTROL PLAN PHASE 3

STA.228+00 TO E.O.P.

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	49L

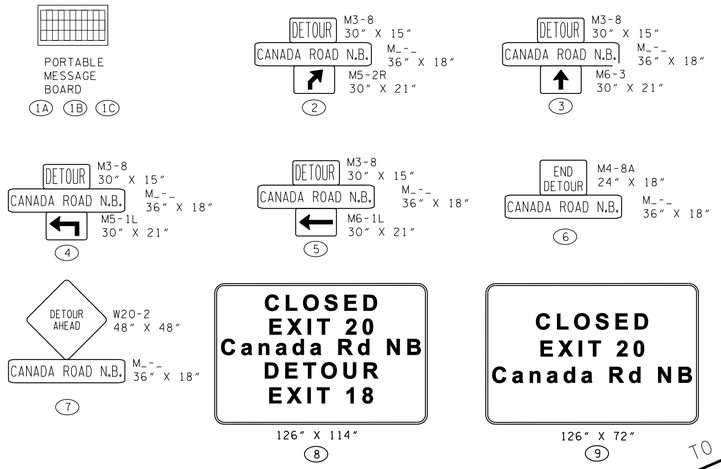
N

RECOMMENDED MESSAGE BOARD TEXTS

SIGN 1A: "EXIT 20 N.B. TRAFFIC CANADA ROAD DETOUR AHEAD"

SIGN 1B: "EXIT 20 N.B. TRAFFIC CANADA ROAD DETOUR U.S. 64"

SIGN 1C: "EXIT 20 N.B. CANADA ROAD CLOSED"



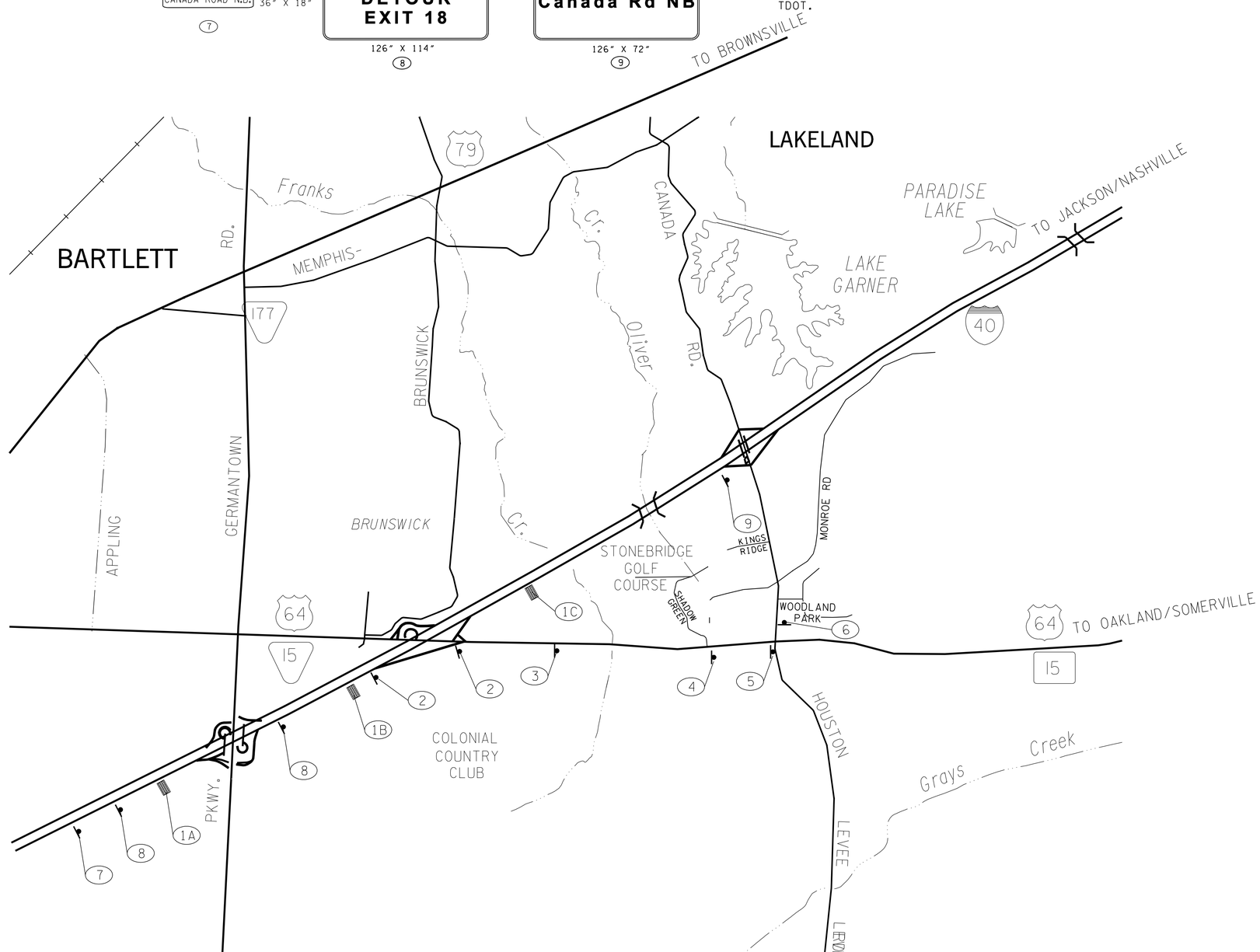
CONSTRUCTION PHASE III - RAMP CLOSURES

1. INSTALL DETOUR SIGNS AND CHANGEABLE MESSAGE BOARDS AS SHOWN ON THIS SHEET (ADVANCE WARNING SIGNS AND ALL TRAFFIC CONTROL DEVICES FOR PHASE 3 CONSTRUCTION SHALL BE IN PLACE BEFORE CLOSING RAMP A - N.B. CANADA ROAD TO TRAFFIC AND SHALL REMAIN IN PLACE THROUGOUT PHASE 3).

2. INSTALL PORTABLE BARRIER RAIL AND RAMP CLOSURE TRAFFIC CONTROL DEVICES AS SHOWN IN PHASE III TRAFFIC CONTROL PLANS AS A MINIMUM. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE USED AS DIRECTED BY TDOT.

3. ADDITIONAL CHANGEABLE MESSAGE BOARDS MAY BE USED AS DIRECTED BY TDOT.

4. UTILIZE I.T.S. MESSAGE BOARDS IN COORDINATION WITH TDOT.



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TRAFFIC CONTROL DETOUR PLAN PHASE 3

NOT TO SCALE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50

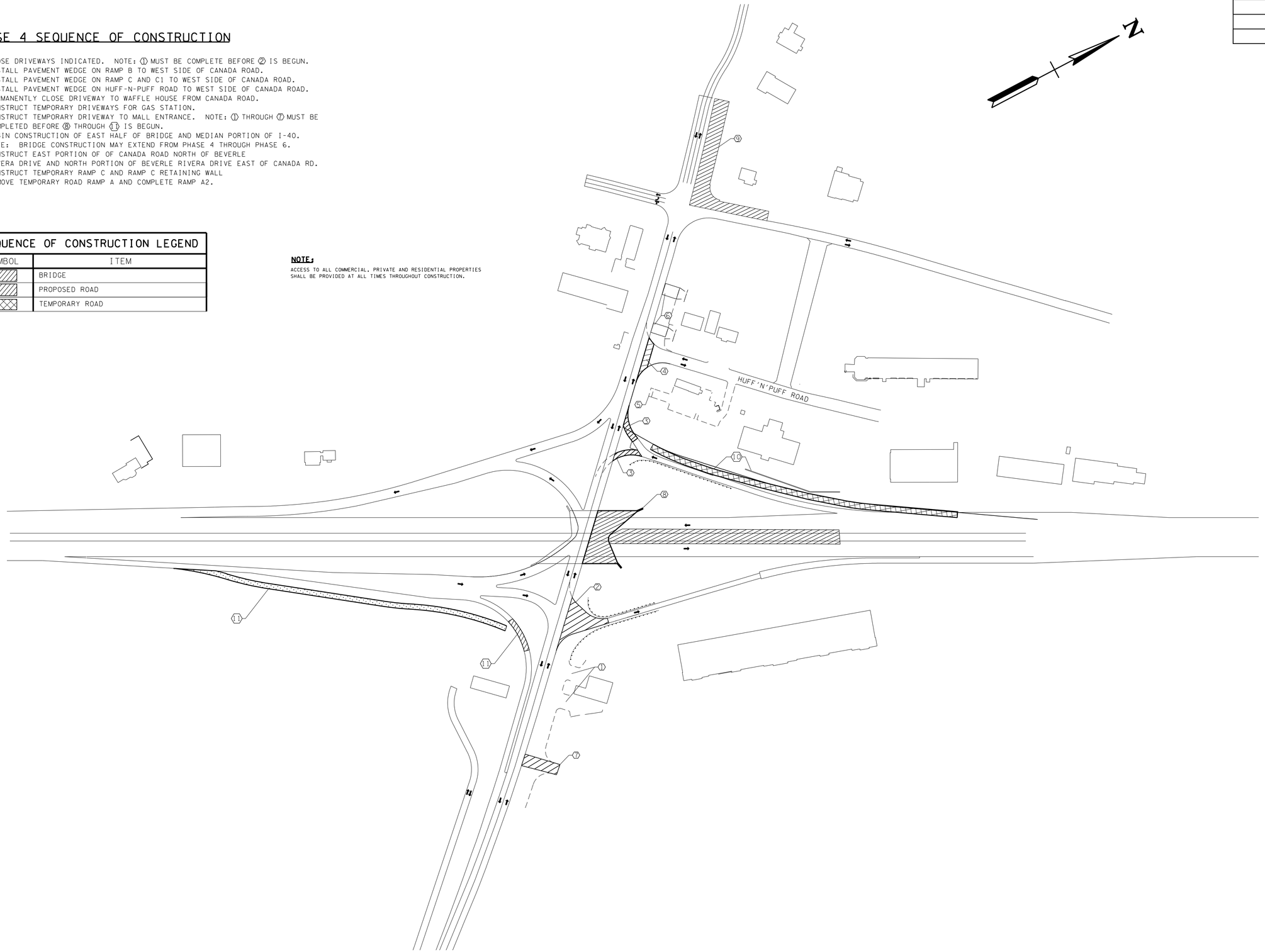
PHASE 4 SEQUENCE OF CONSTRUCTION

1. CLOSE DRIVEWAYS INDICATED. NOTE: 1 MUST BE COMPLETE BEFORE 2 IS BEGUN.
2. INSTALL PAVEMENT WEDGE ON RAMP B TO WEST SIDE OF CANADA ROAD.
3. INSTALL PAVEMENT WEDGE ON RAMP C AND C1 TO WEST SIDE OF CANADA ROAD.
4. INSTALL PAVEMENT WEDGE ON HUFF-N-PUFF ROAD TO WEST SIDE OF CANADA ROAD.
5. PERMANENTLY CLOSE DRIVEWAY TO WAFFLE HOUSE FROM CANADA ROAD.
6. CONSTRUCT TEMPORARY DRIVEWAYS FOR GAS STATION.
7. CONSTRUCT TEMPORARY DRIVEWAY TO MALL ENTRANCE. NOTE: 1 THROUGH 7 MUST BE COMPLETED BEFORE 8 THROUGH 11 IS BEGUN.
8. BEGIN CONSTRUCTION OF EAST HALF OF BRIDGE AND MEDIAN PORTION OF I-40. NOTE: BRIDGE CONSTRUCTION MAY EXTEND FROM PHASE 4 THROUGH PHASE 6.
9. CONSTRUCT EAST PORTION OF OF CANADA ROAD NORTH OF BEVERLE RIVERA DRIVE AND NORTH PORTION OF BEVERLE RIVERA DRIVE EAST OF CANADA RD.
10. CONSTRUCT TEMPORARY RAMP C AND RAMP C RETAINING WALL
11. REMOVE TEMPORARY ROAD RAMP A AND COMPLETE RAMP A2.

SEQUENCE OF CONSTRUCTION LEGEND	
SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	TEMPORARY ROAD

NOTE:

ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE 4
SEQUENCE OF CONSTRUCTION
NOT TO SCALE

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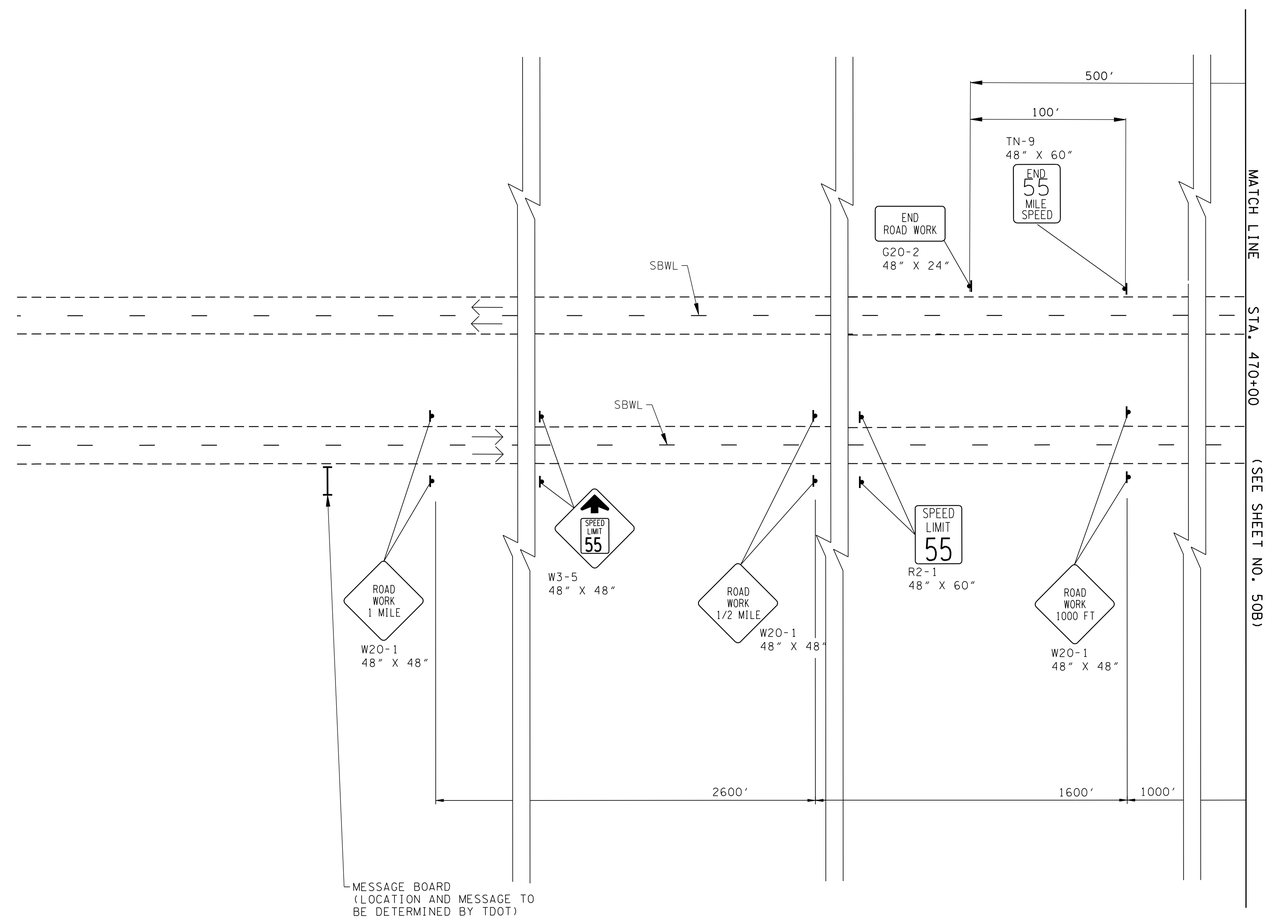
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

B.O.P. TO STA 470+00

SCALE: 1"=50'

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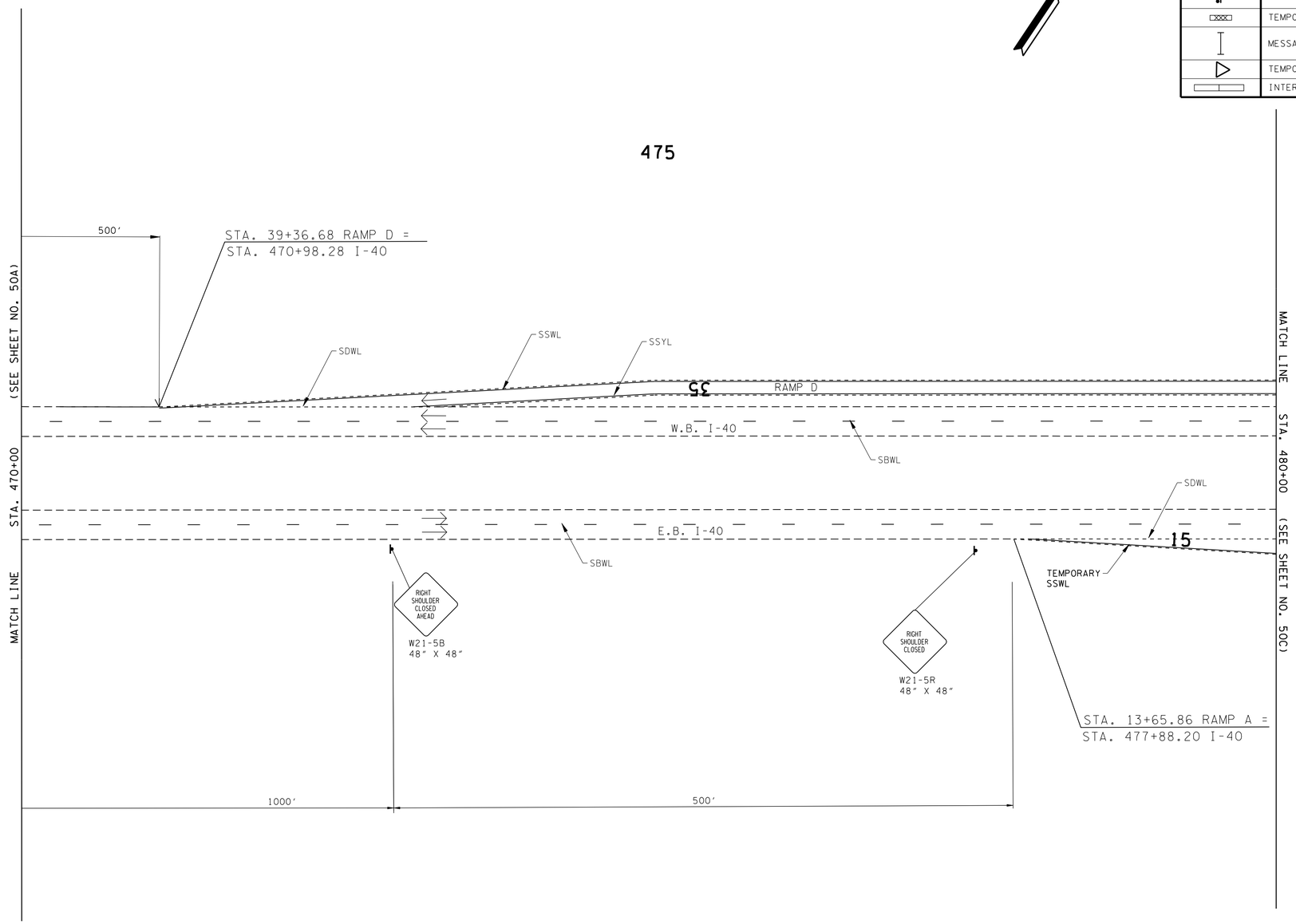
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50B

TRAFFIC CONTROL LEGEND

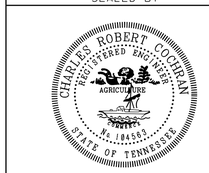
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA. 470+00 TO STA.480+00

SCALE: 1"=50'

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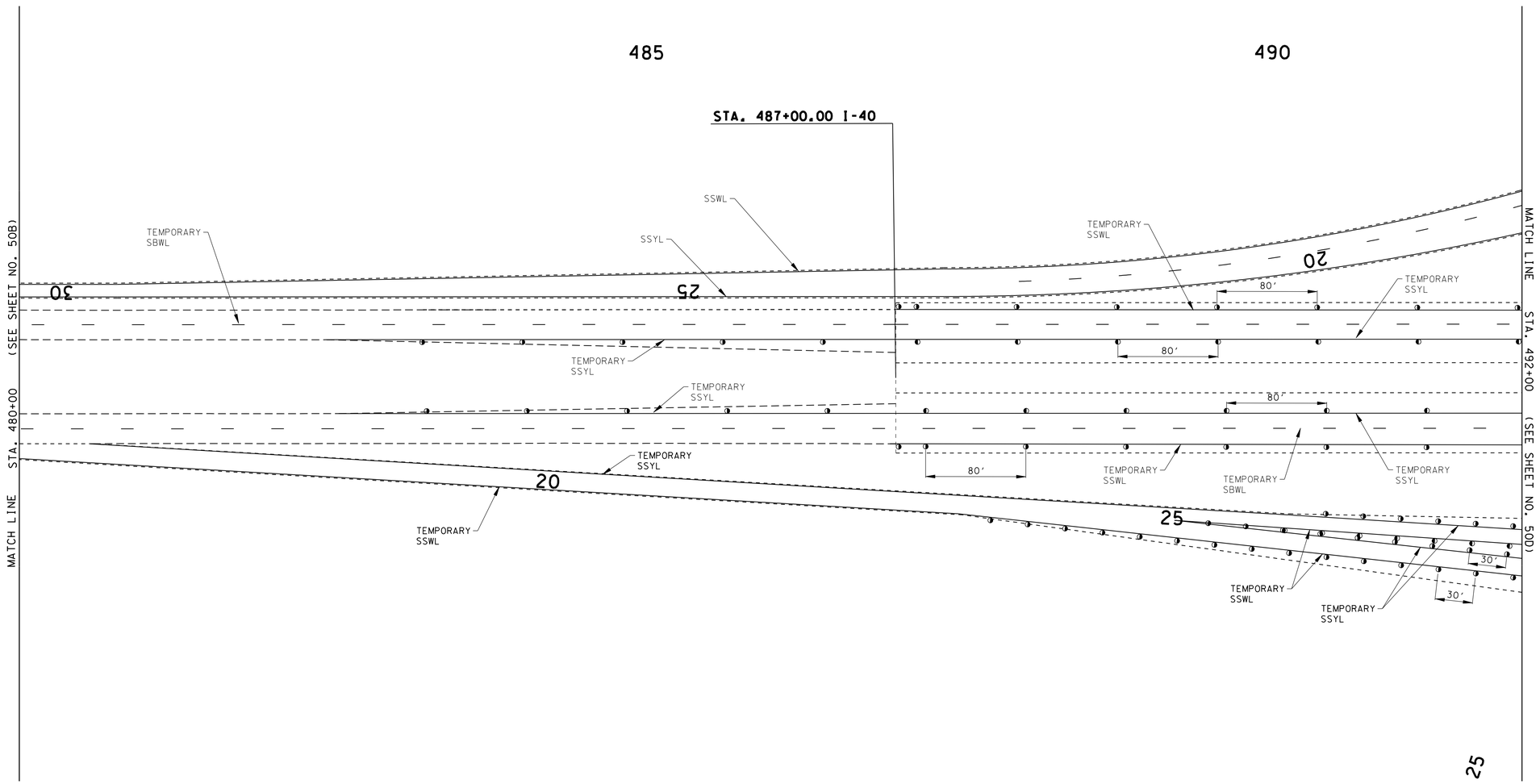
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50C

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA. 480+00 TO STA.492+00

SCALE: 1"=50'

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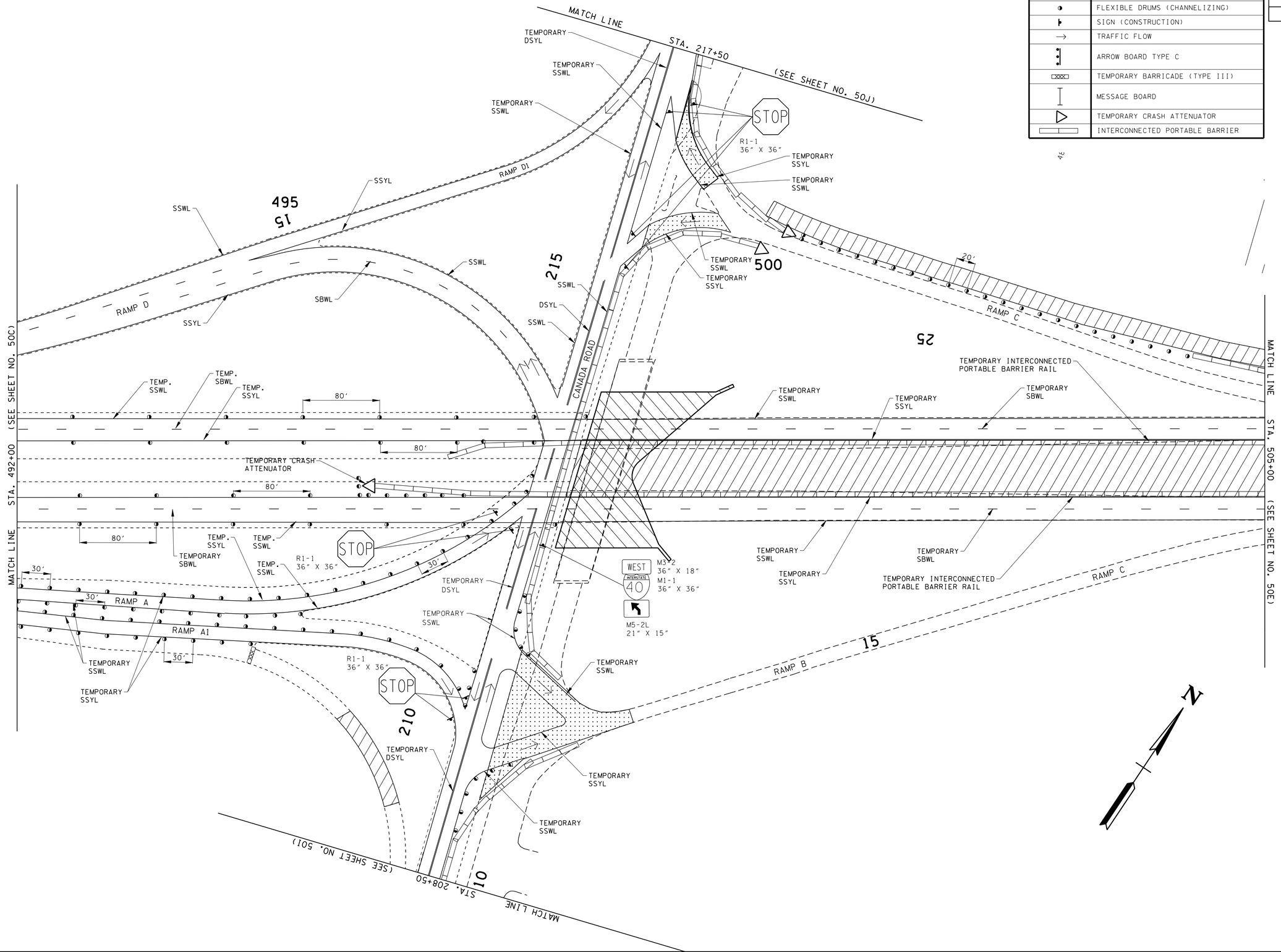
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50D

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA.492+00 TO STA.505+00

SCALE: 1"=50'

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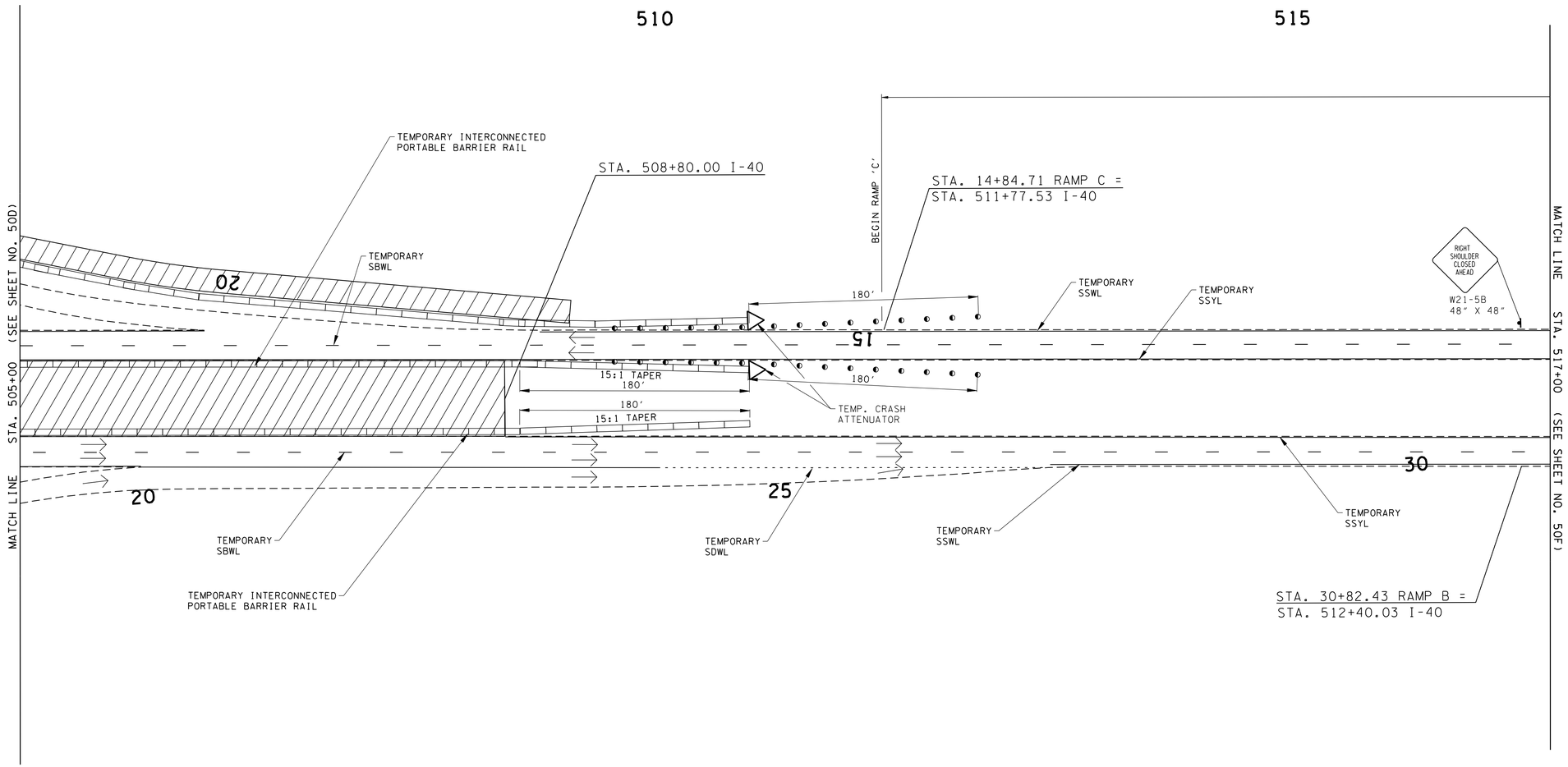
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA.505+00 TO STA. 517+00

SCALE: 1"=50'

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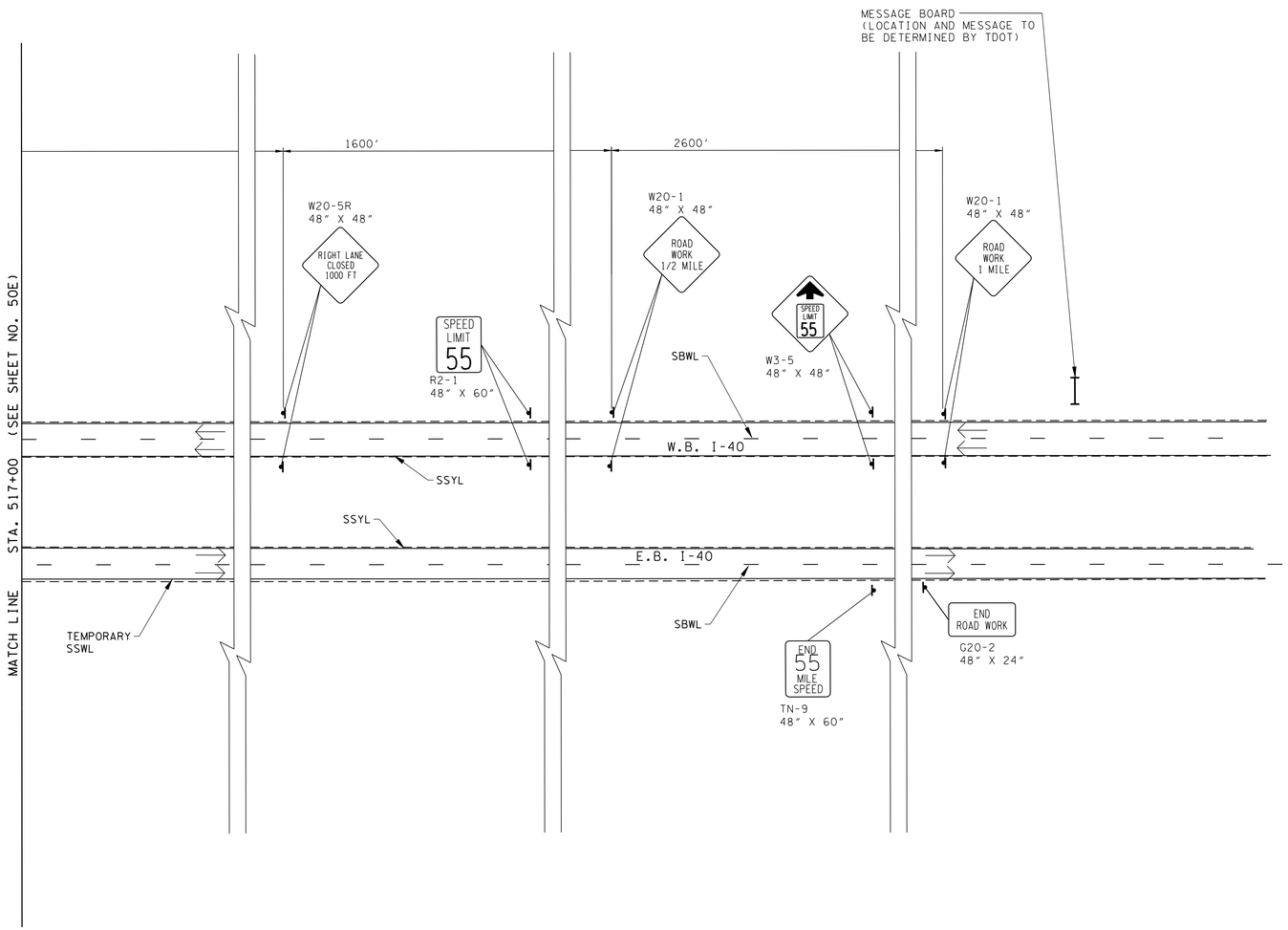
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50F

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA.517+00 TO E.O.P.

SCALE: 1"=50'

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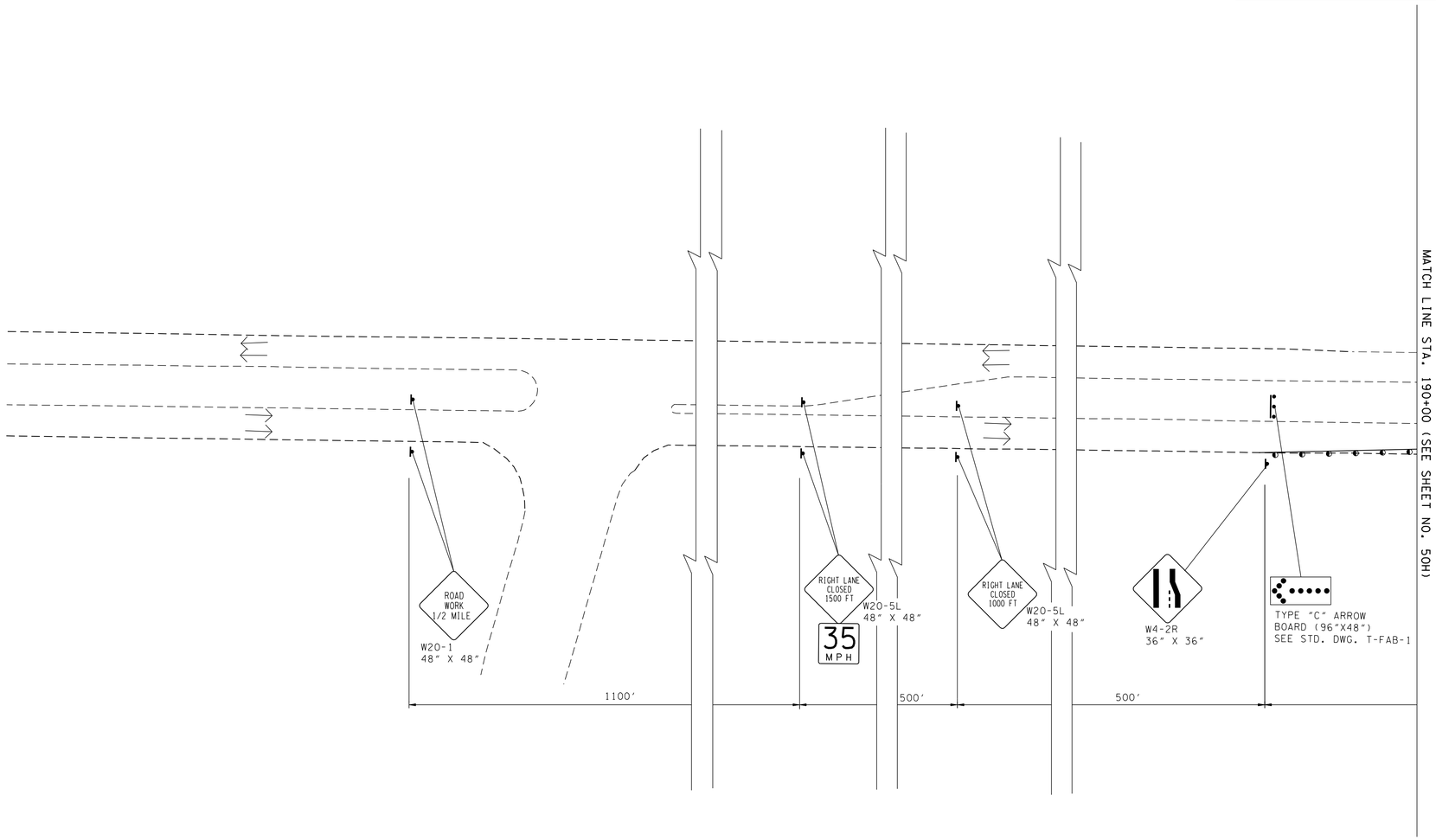
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50G

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

B.O.P. TO STA.190+00

SCALE: 1"=50'

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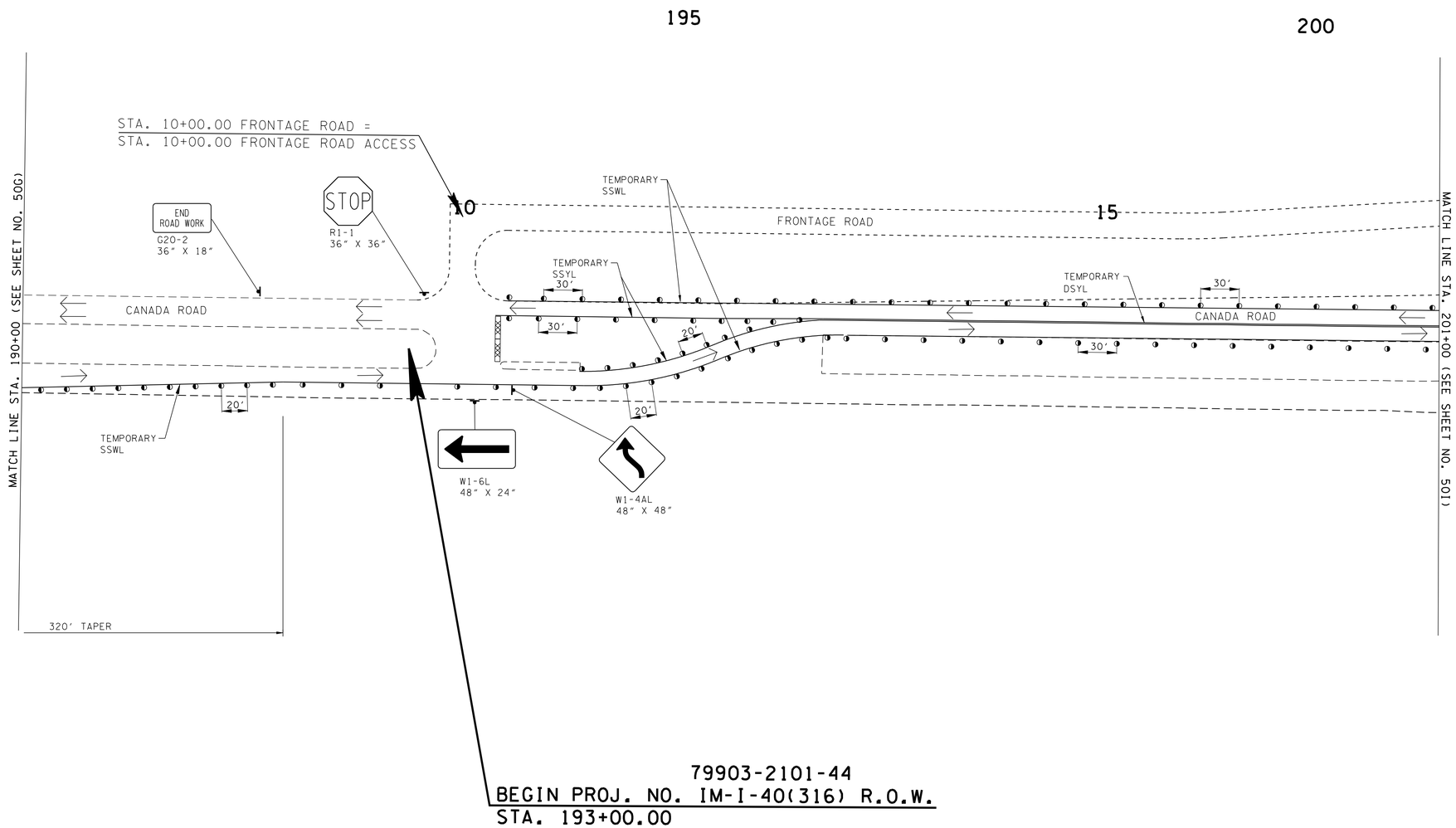
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50H

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA. 190+00 TO STA.201+00

SCALE: 1"=50'

2/24/2014 1:54:41 PM
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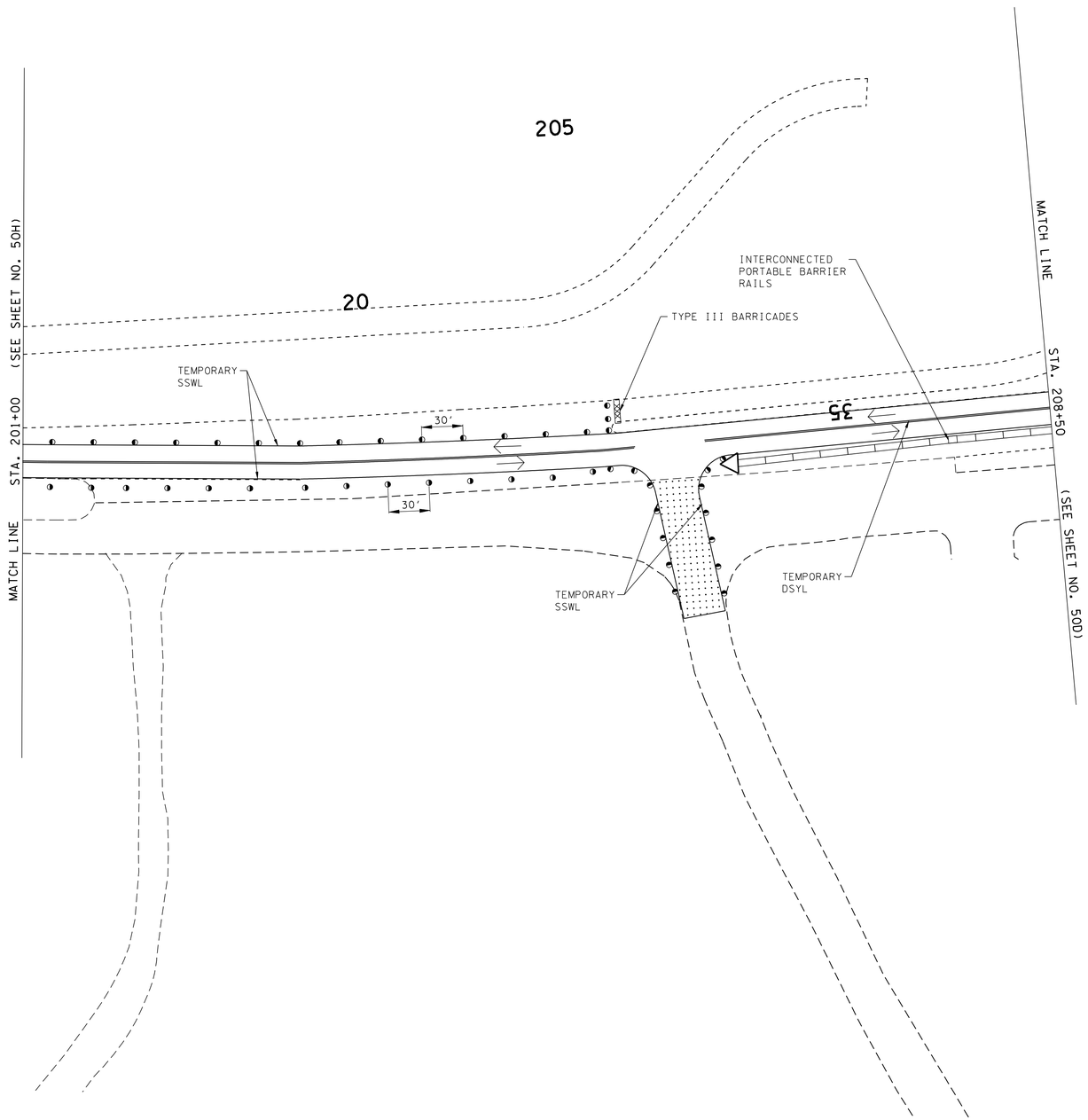
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	501

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA.201+00 TO STA.208+50

SCALE: 1"=50'

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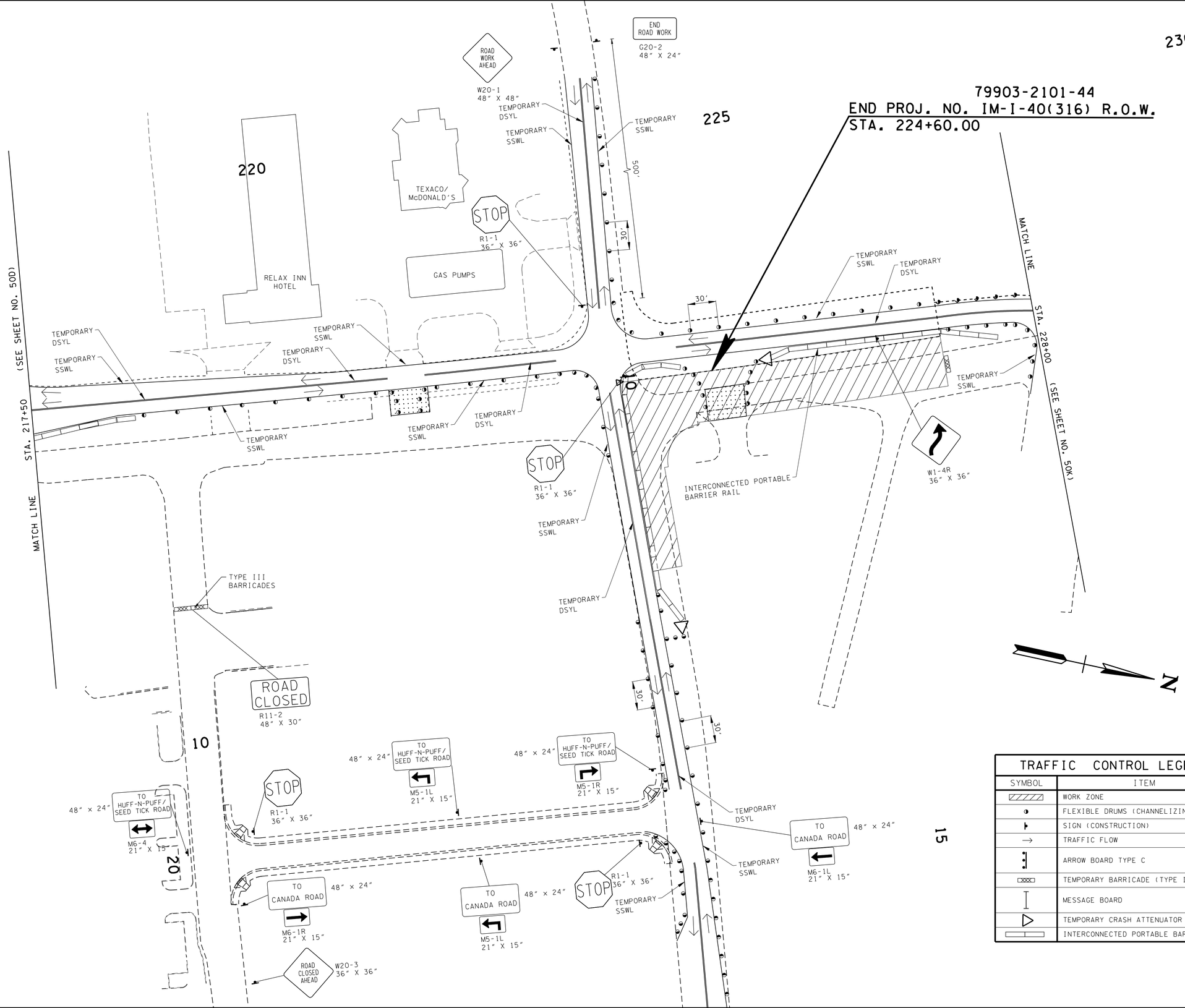
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50J



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA.217+50 TO STA. 228+00

SCALE: 1"=50'

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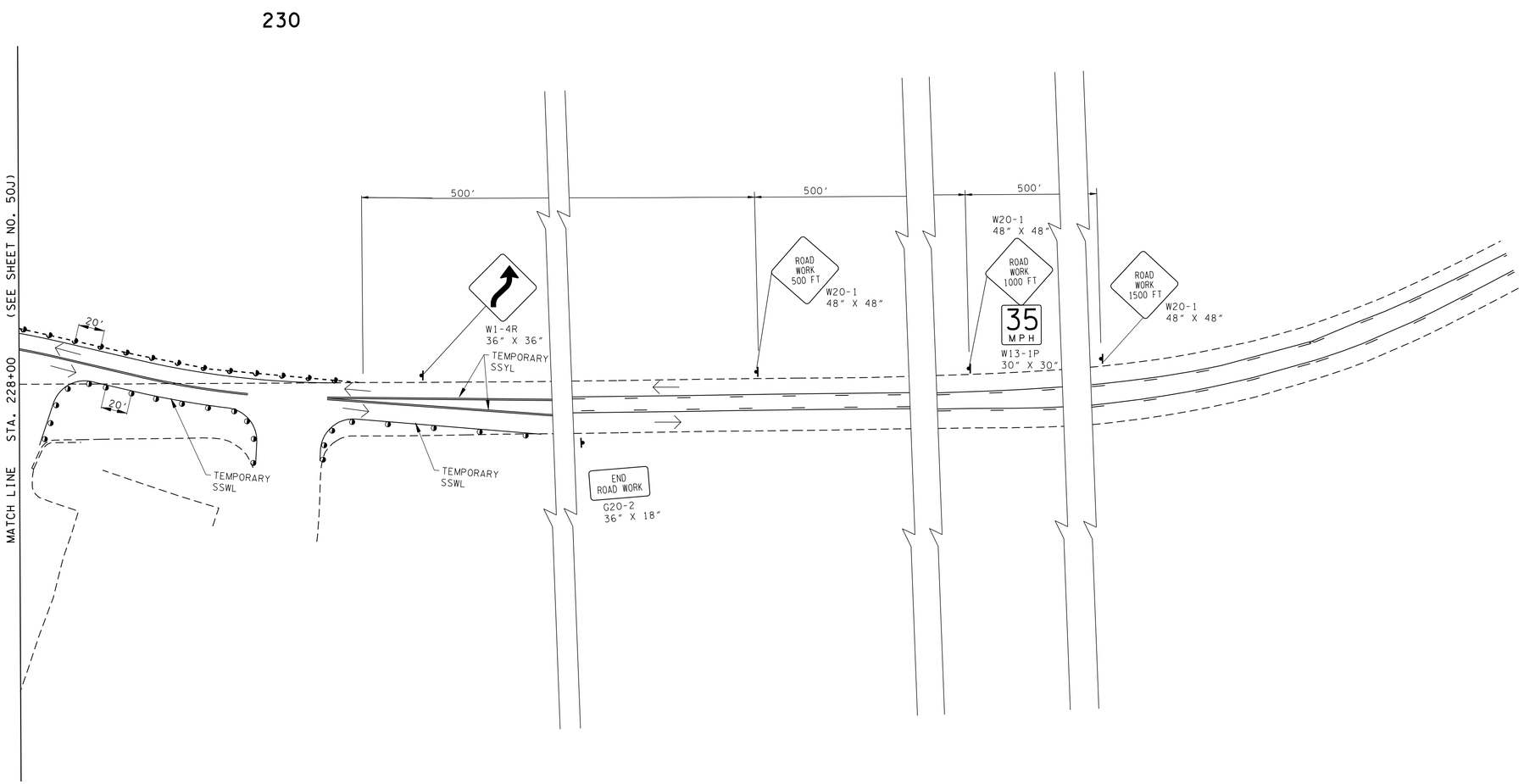
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	50K

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA.228+00 TO E.O.P.

SCALE: 1"=50'

2/24/2014 1:54:47 PM
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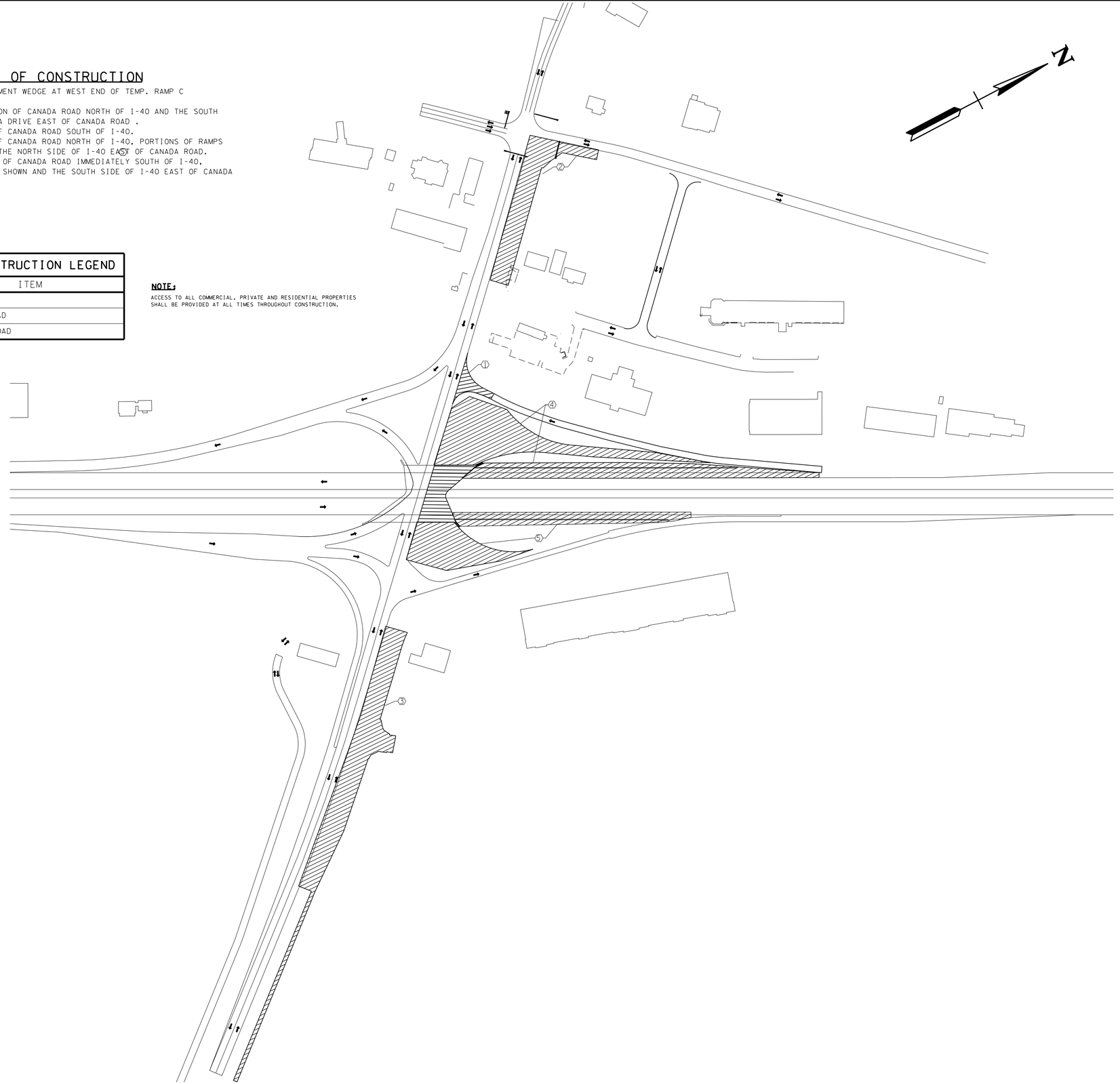
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51

PHASE 5 SEQUENCE OF CONSTRUCTION

① CONSTRUCT TEMPORARY PAVEMENT WEDGE AT WEST END OF TEMP. RAMP C AND OPEN TO TRAFFIC.
② CONSTRUCT AN EAST PORTION OF CANADA ROAD NORTH OF I-40 AND THE SOUTH PORTION OF BEVERLE RIVERA DRIVE EAST OF CANADA ROAD .
③ CONSTRUCT EAST PORTION OF CANADA ROAD SOUTH OF I-40.
④ CONSTRUCT EAST PORTION OF CANADA ROAD NORTH OF I-40. PORTIONS OF RAMPS C & C1 WHERE SHOWN, AND THE NORTH SIDE OF I-40 EAST OF CANADA ROAD.
⑤ CONSTRUCT A EAST PORTION OF CANADA ROAD IMMEDIATELY SOUTH OF I-40, THE PORTION OF RAMP B AS SHOWN AND THE SOUTH SIDE OF I-40 EAST OF CANADA ROAD.

SEQUENCE OF CONSTRUCTION LEGEND	
SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	TEMPORARY ROAD

NOTE:
ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

CHARLES ROBERT COCHRAN
REGISTERED ENGINEER
AGRICULTURE
No. 104583
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE 5
SEQUENCE OF CONSTRUCTION
NOT TO SCALE

2/24/2014 1:54:49 PM
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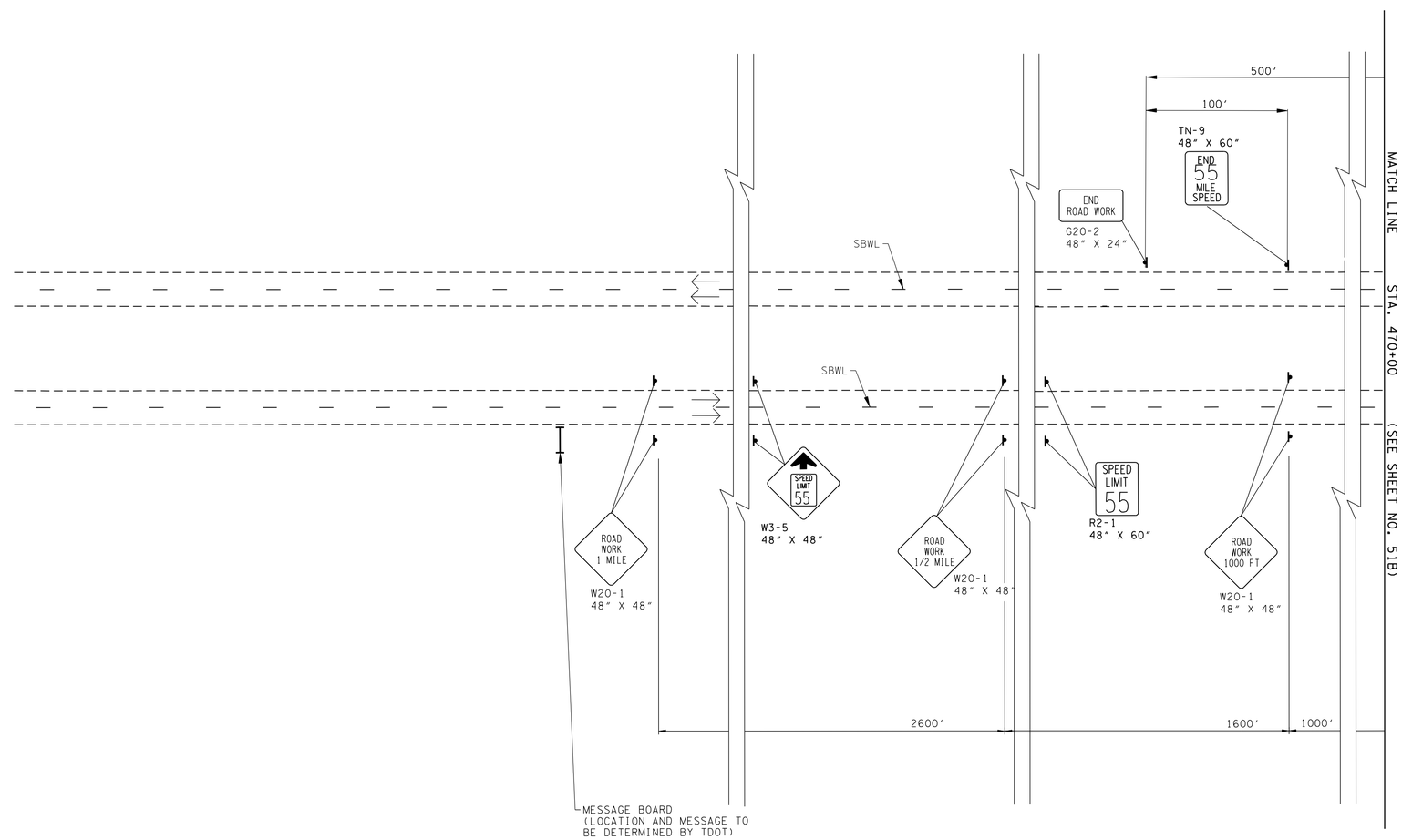
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

B.O.P. TO STA. 470+00

SCALE: 1"=50'

2/24/2014 1:54:52 PM
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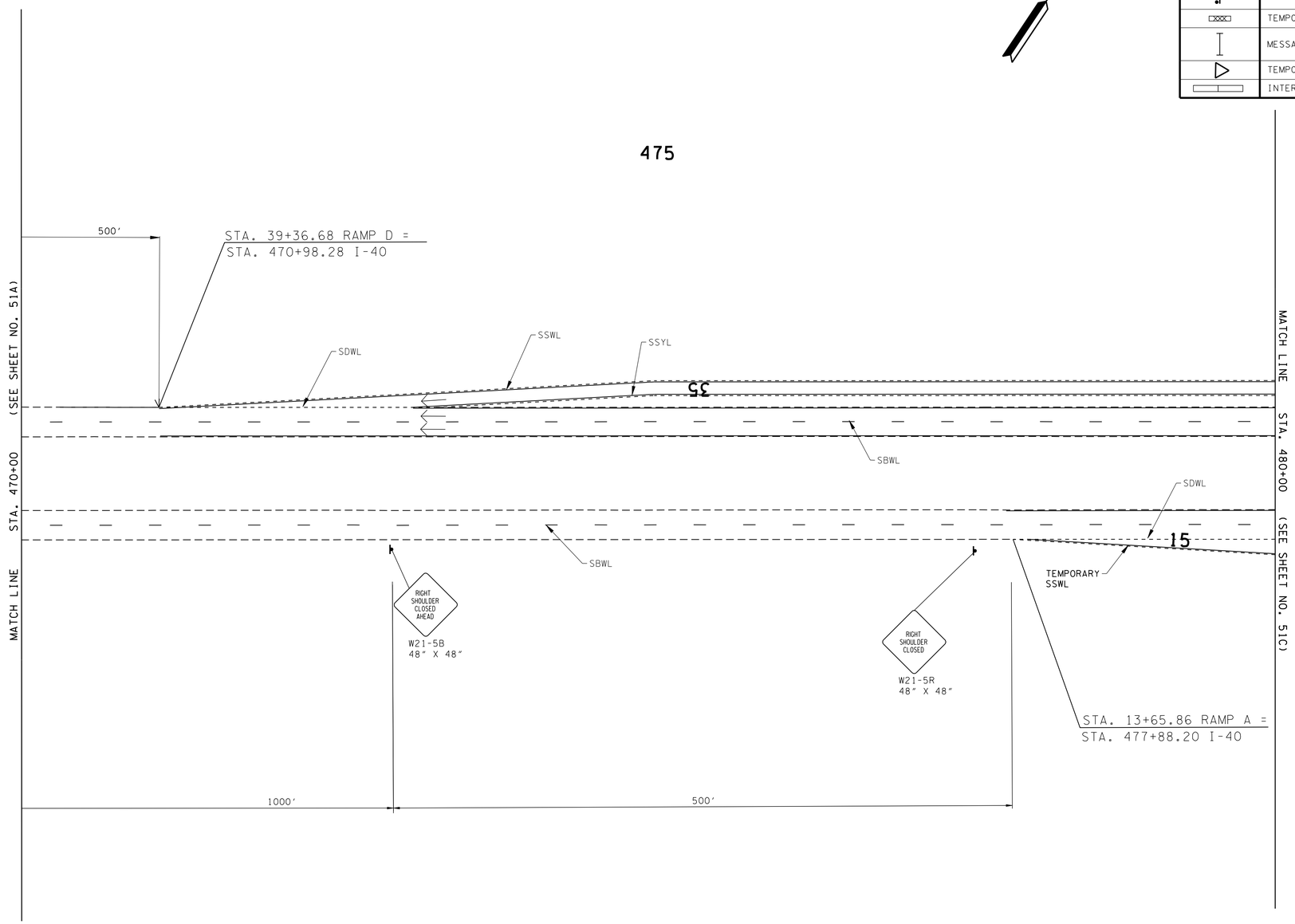
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51B

TRAFFIC CONTROL LEGEND

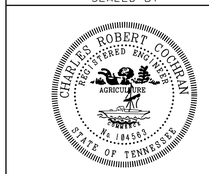
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA. 470+00 TO STA.480+00

SCALE: 1"=50'

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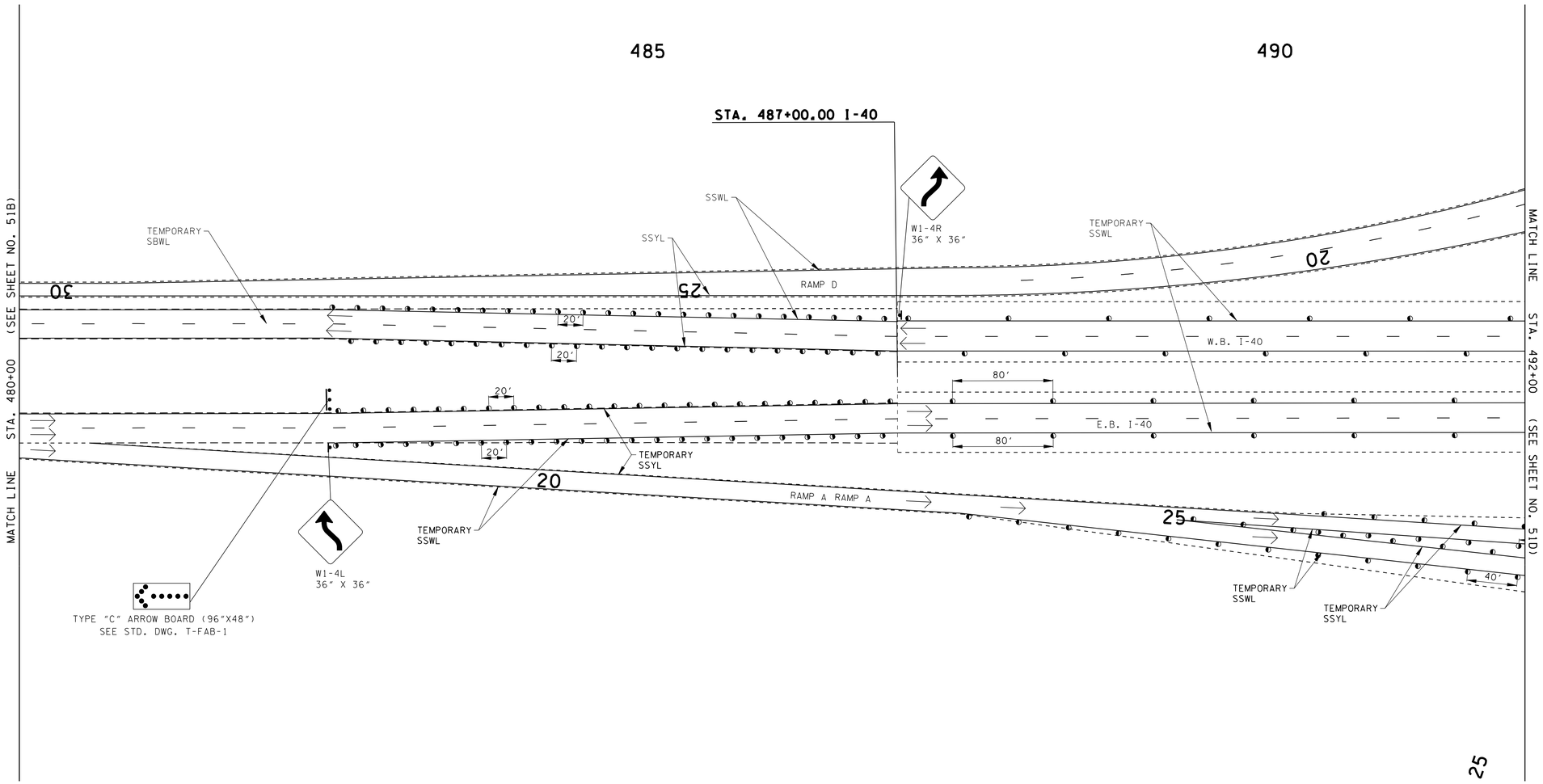
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51C

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA. 480+00 TO STA.492+00

SCALE: 1"=50'

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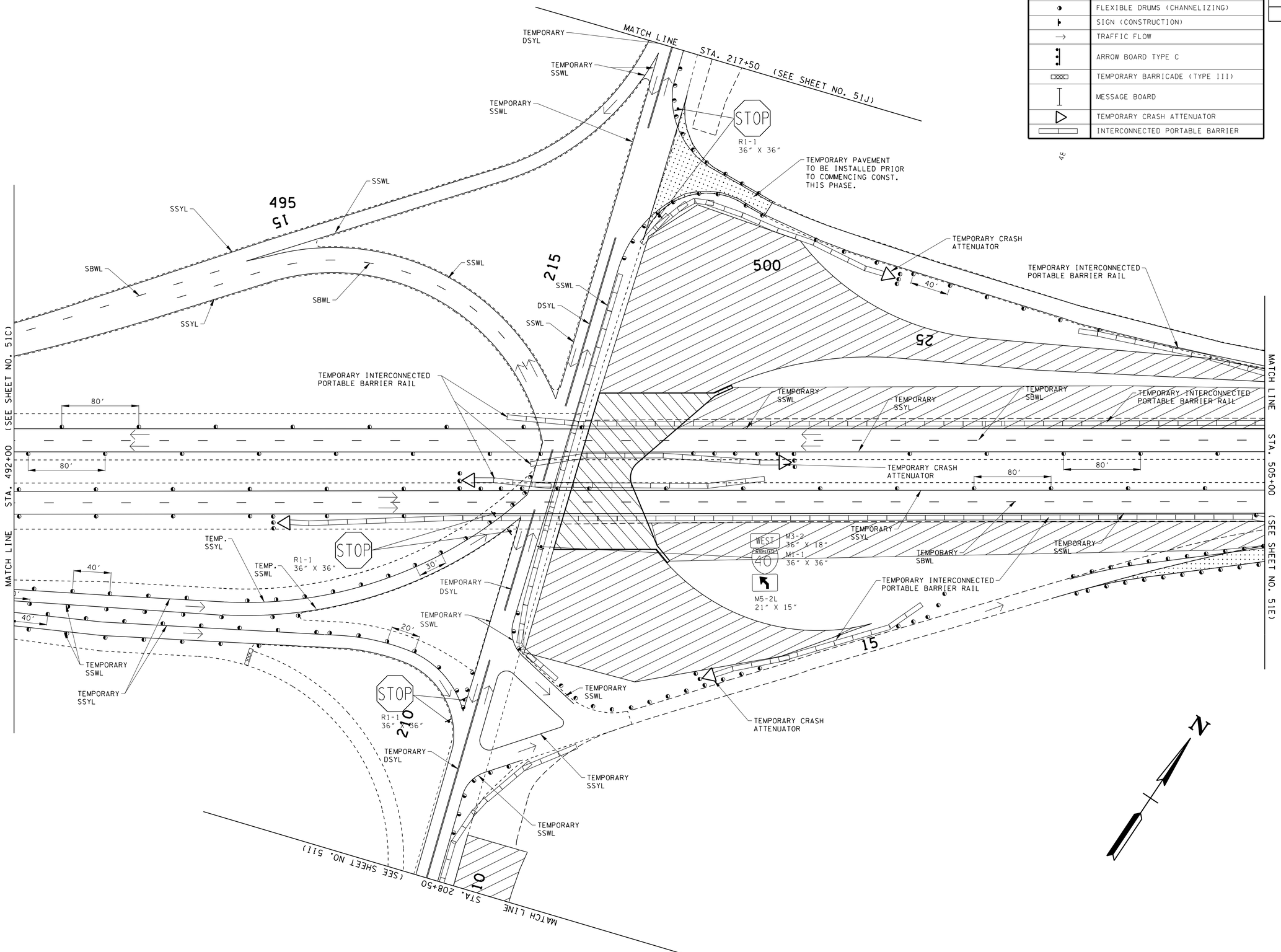
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51D

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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SEALED BY

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA.492+00 TO STA.505+00

SCALE: 1"=50'

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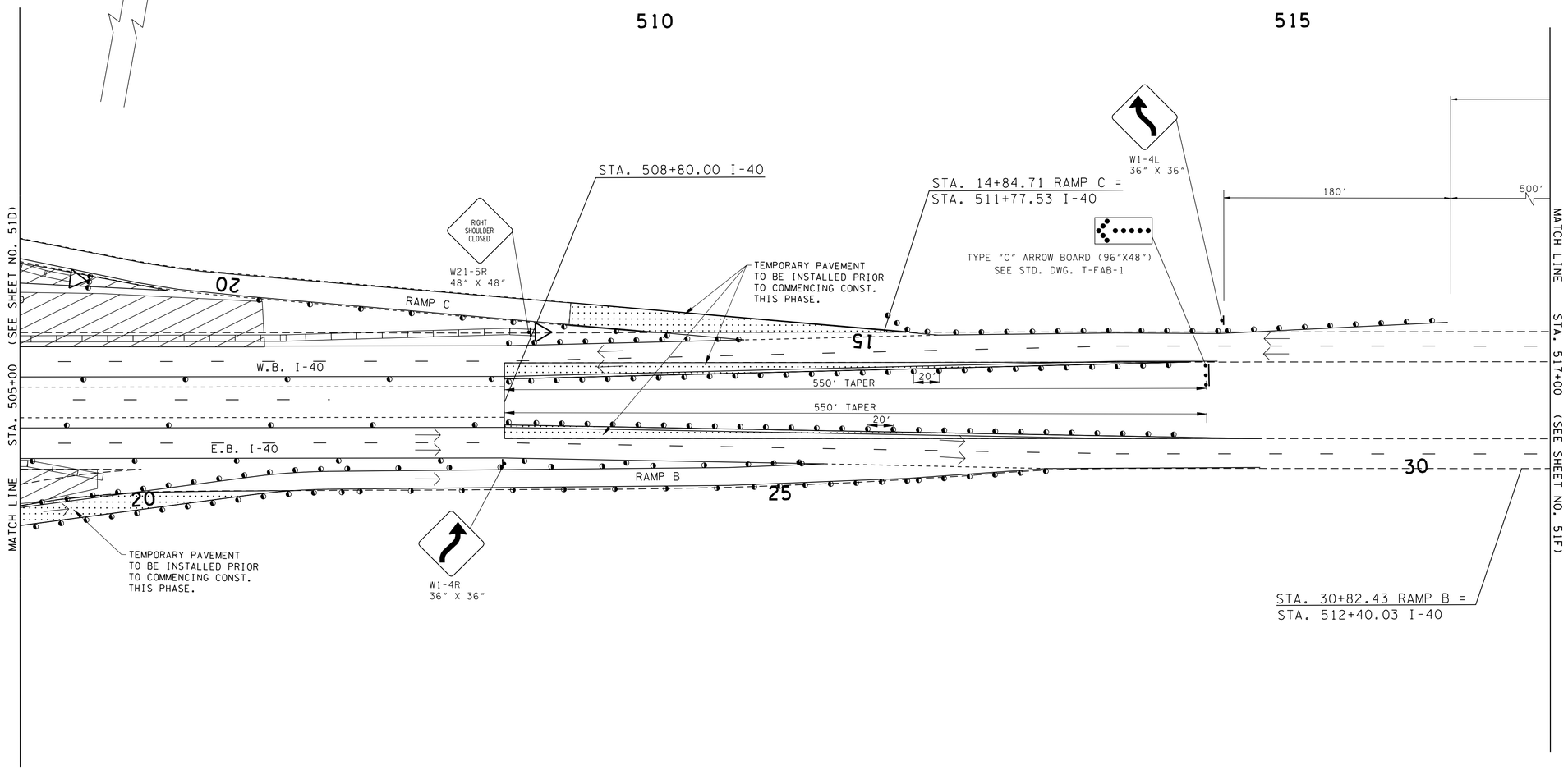
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA.505+00 TO STA. 517+00

SCALE: 1"=50'

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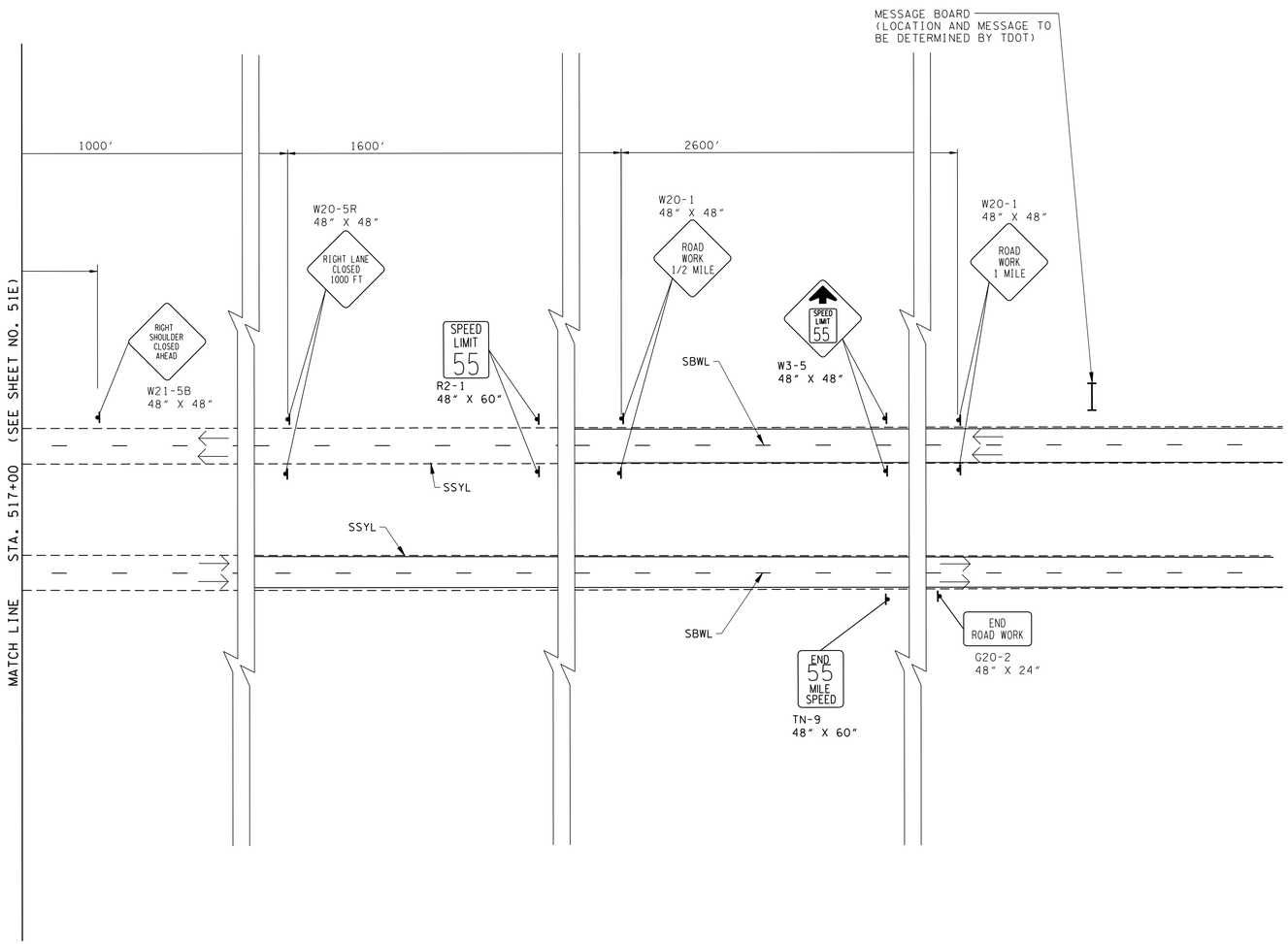
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51F

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA.517+00 TO E.O.P.

SCALE: 1"=50'

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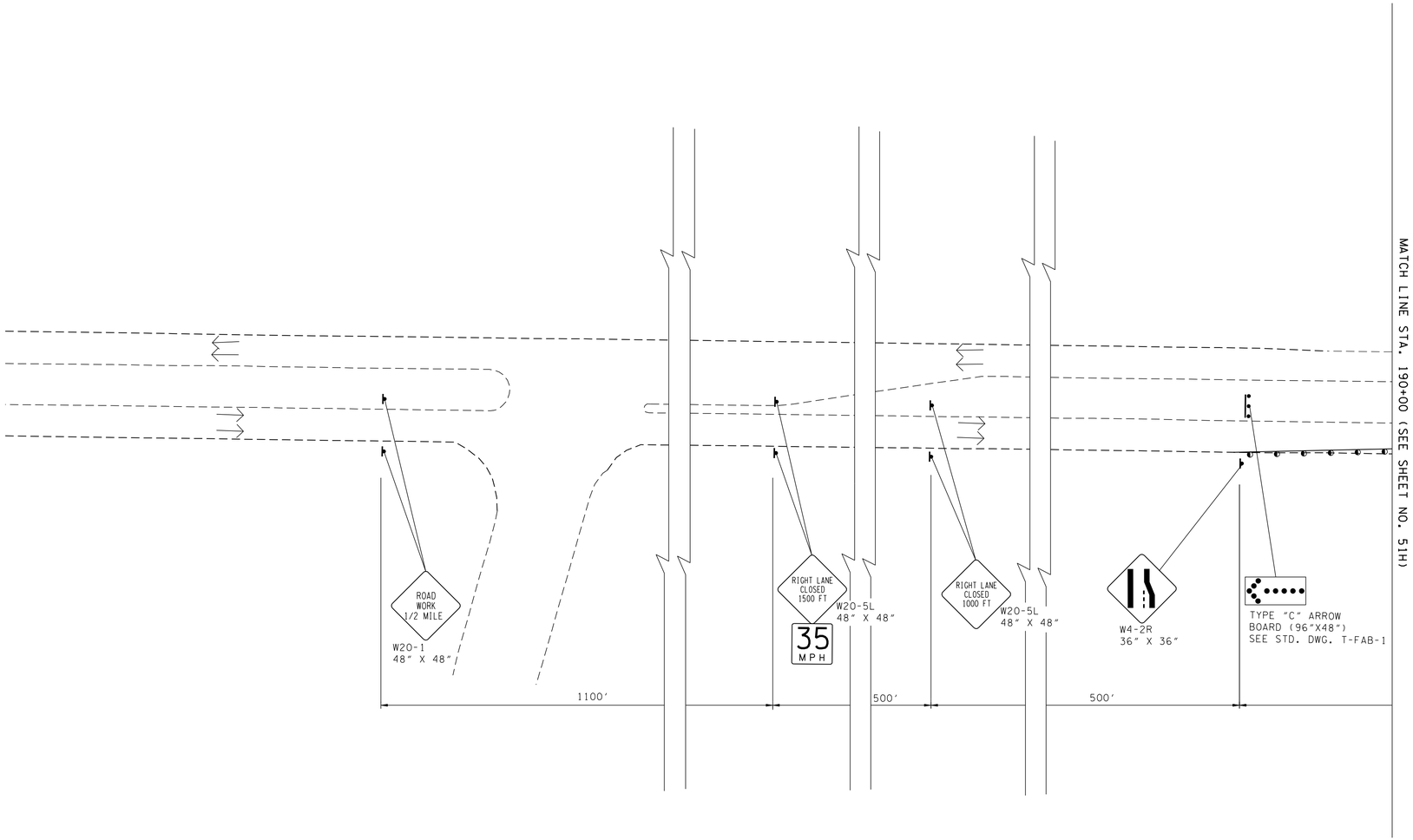
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51G

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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TRAFFIC CONTROL PLAN PHASE 5

B.O.P. TO STA.190+00

SCALE: 1"=50'

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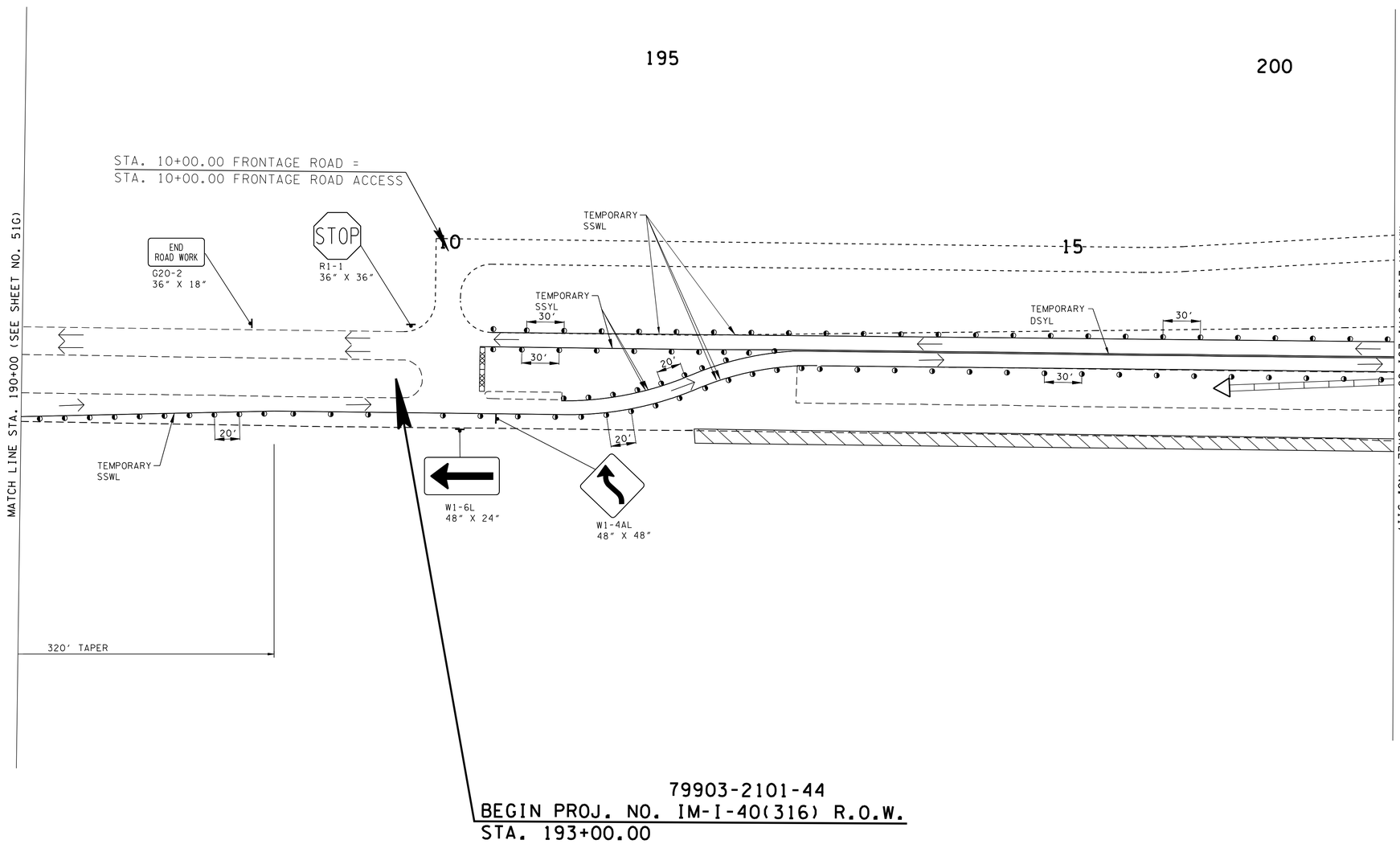
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51H

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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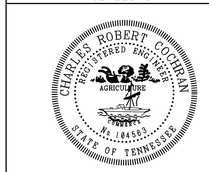
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA. 190+00 TO STA.201+00

SCALE: 1"=50'

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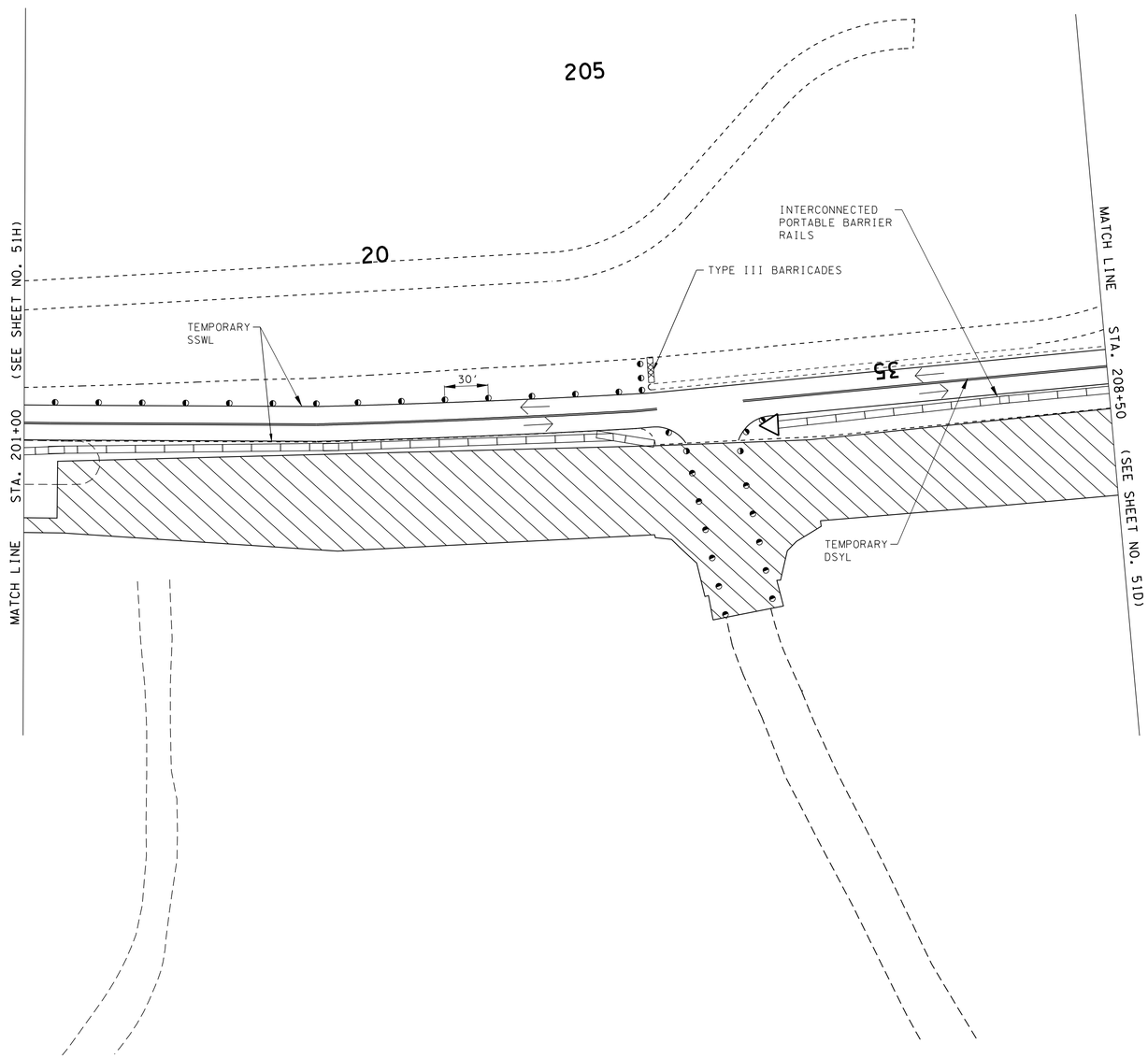
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51I

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA.201+00 TO STA.208+50

SCALE: 1"=50'

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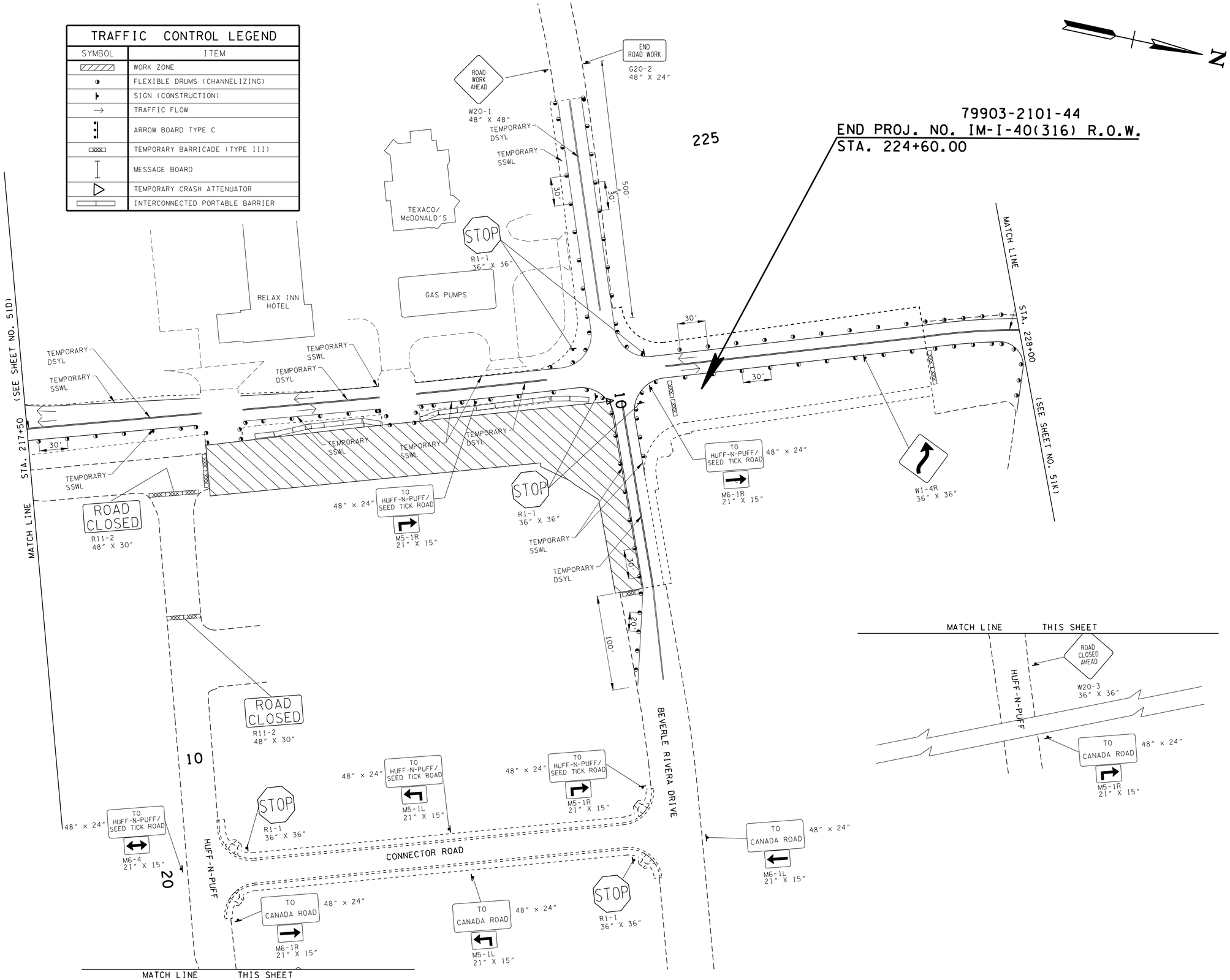
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51J

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA.217+50 TO STA. 228+00

SCALE: 1"=50'

2/24/2014 1:55:16 PM
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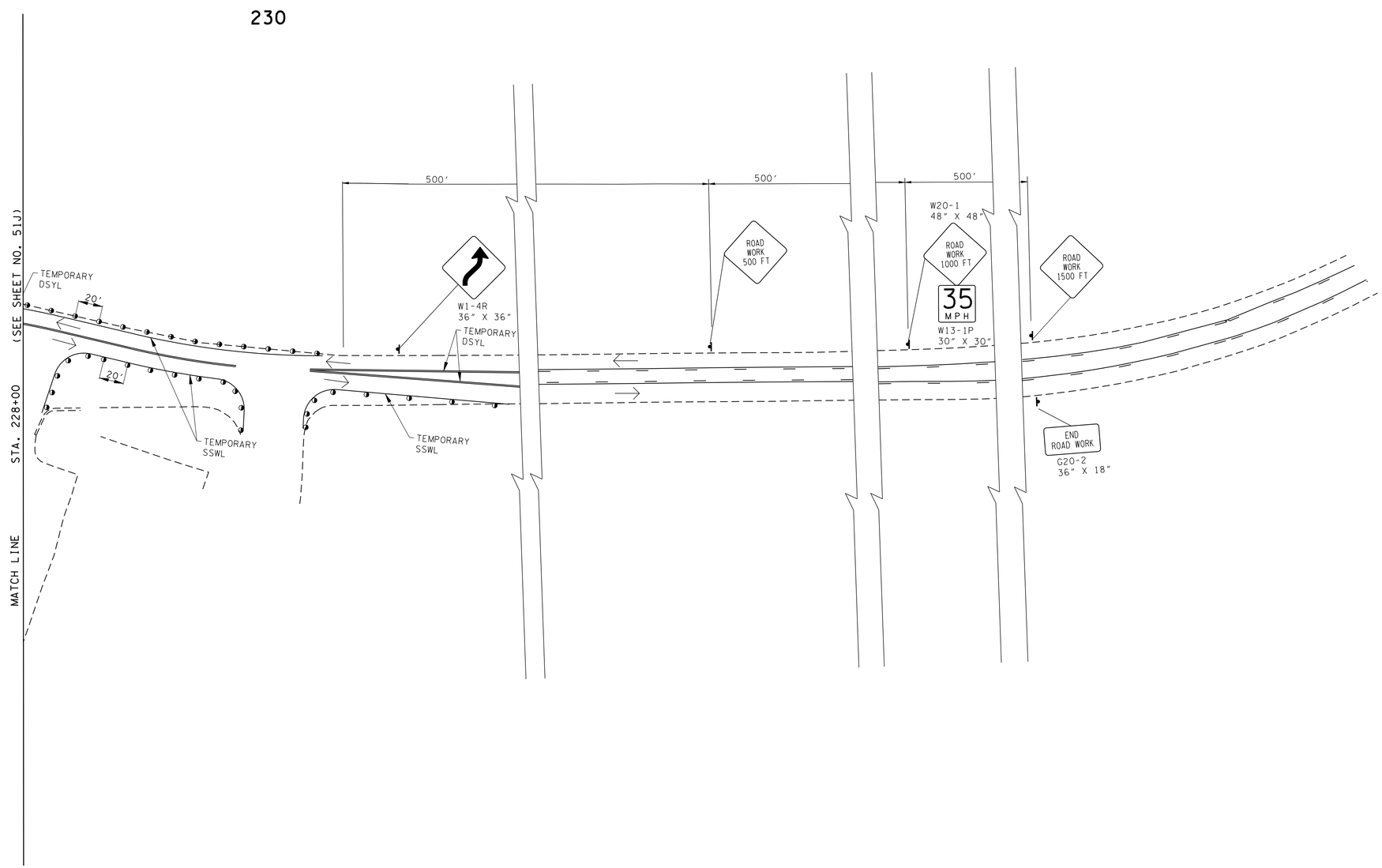
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	51K

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA.228+00 TO E.O.P.

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52

PHASE 3 SEQUENCE OF CONSTRUCTION

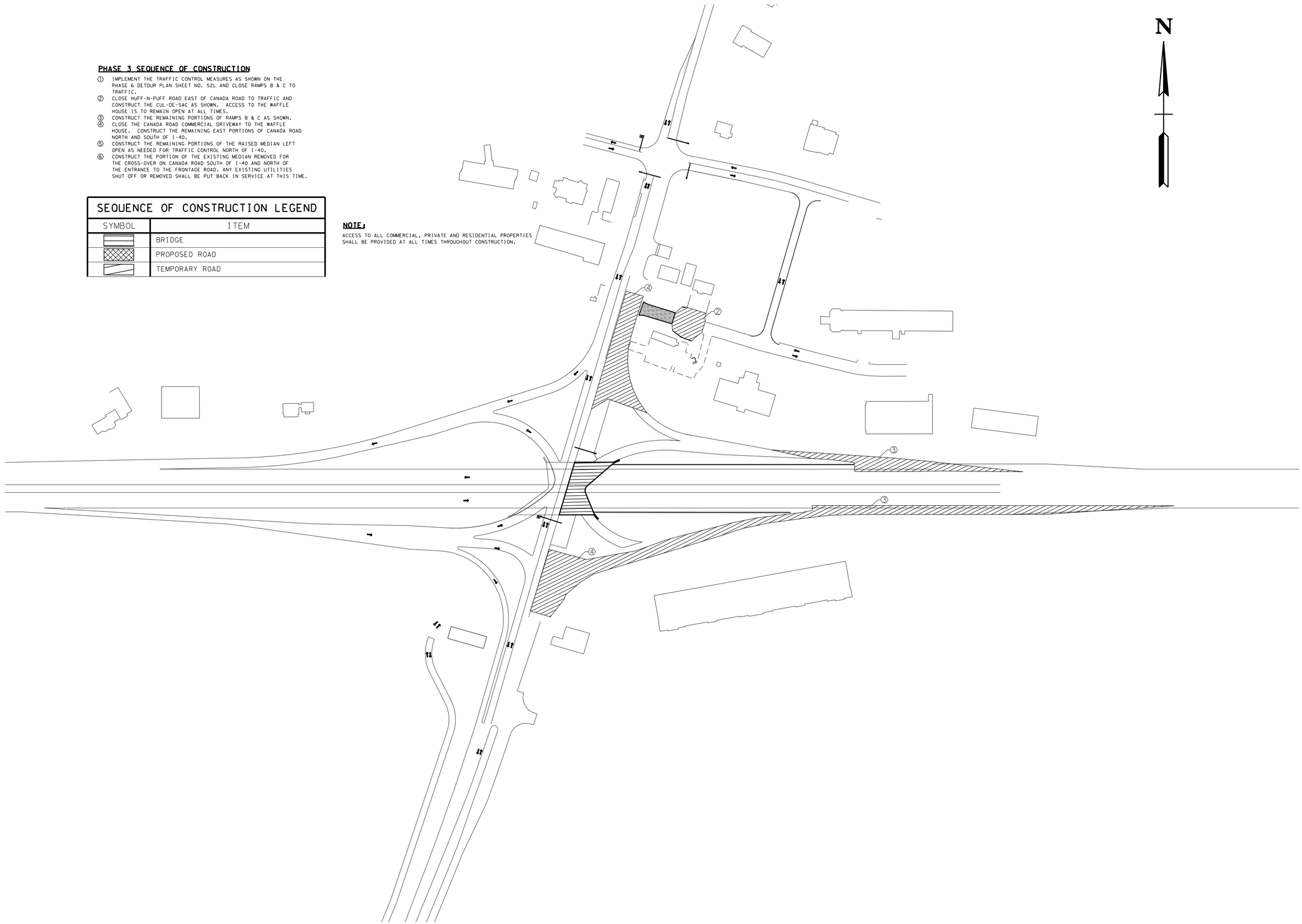
1. IMPLEMENT THE TRAFFIC CONTROL MEASURES AS SHOWN ON THE PHASE 6 DETOUR PLAN SHEET NO. 52L AND CLOSE RAMPS B & C TO TRAFFIC.
2. CLOSE HUFF-N-PUFF ROAD EAST OF CANADA ROAD TO TRAFFIC AND CONSTRUCT THE CUL-DE-SAC AS SHOWN. ACCESS TO THE WAFFLE HOUSE IS TO REMAIN OPEN AT ALL TIMES.
3. CONSTRUCT THE REMAINING PORTIONS OF RAMPS B & C AS SHOWN.
4. CLOSE THE CANADA ROAD COMMERCIAL DRIVEWAY TO THE WAFFLE HOUSE. CONSTRUCT THE REMAINING EAST PORTIONS OF CANADA ROAD NORTH AND SOUTH OF I-40.
5. CONSTRUCT THE REMAINING PORTIONS OF THE RAISED MEDIAN LEFT OPEN AS NEEDED FOR TRAFFIC CONTROL NORTH OF I-40.
6. CONSTRUCT THE PORTION OF THE EXISTING MEDIAN REMOVED FOR THE CROSS-OVER ON CANADA ROAD SOUTH OF I-40 AND NORTH OF THE ENTRANCE TO THE FRONTAGE ROAD. ANY EXISTING UTILITIES SHUT OFF OR REMOVED SHALL BE PUT BACK IN SERVICE AT THIS TIME.

SEQUENCE OF CONSTRUCTION LEGEND

SYMBOL	ITEM
	BRIDGE
	PROPOSED ROAD
	TEMPORARY ROAD

NOTE:

ACCESS TO ALL COMMERCIAL, PRIVATE AND RESIDENTIAL PROPERTIES SHALL BE PROVIDED AT ALL TIMES THROUGHOUT CONSTRUCTION.



UNOFFICIAL SET

NOT FOR BIDDING

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TRAFFIC CONTROL PLAN PHASE 6

SEQUENCE OF CONSTRUCTION

NOT TO SCALE

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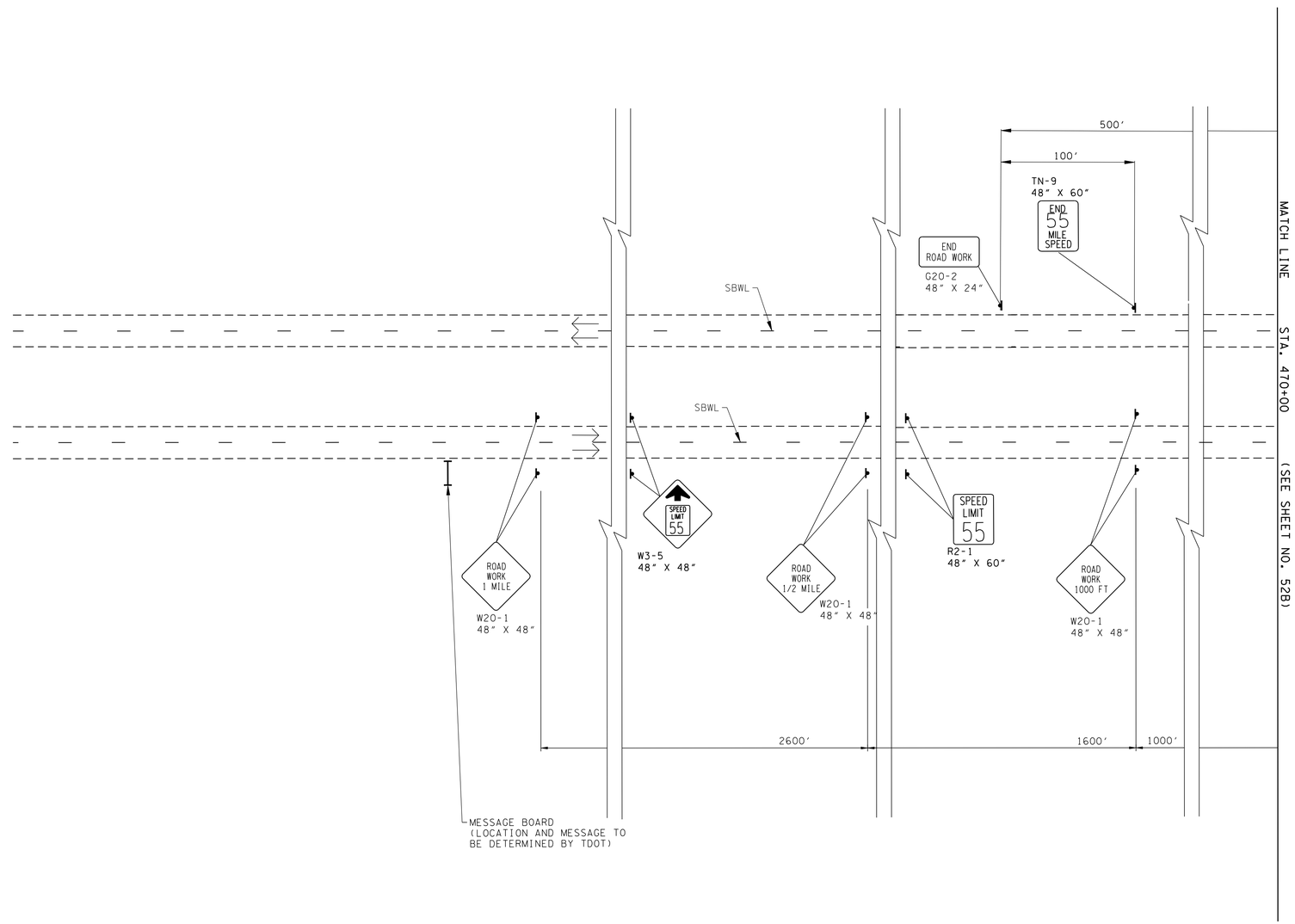
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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TRAFFIC CONTROL PLAN PHASE 6

B.O.P. TO STA.470+00

SCALE: 1"=50'

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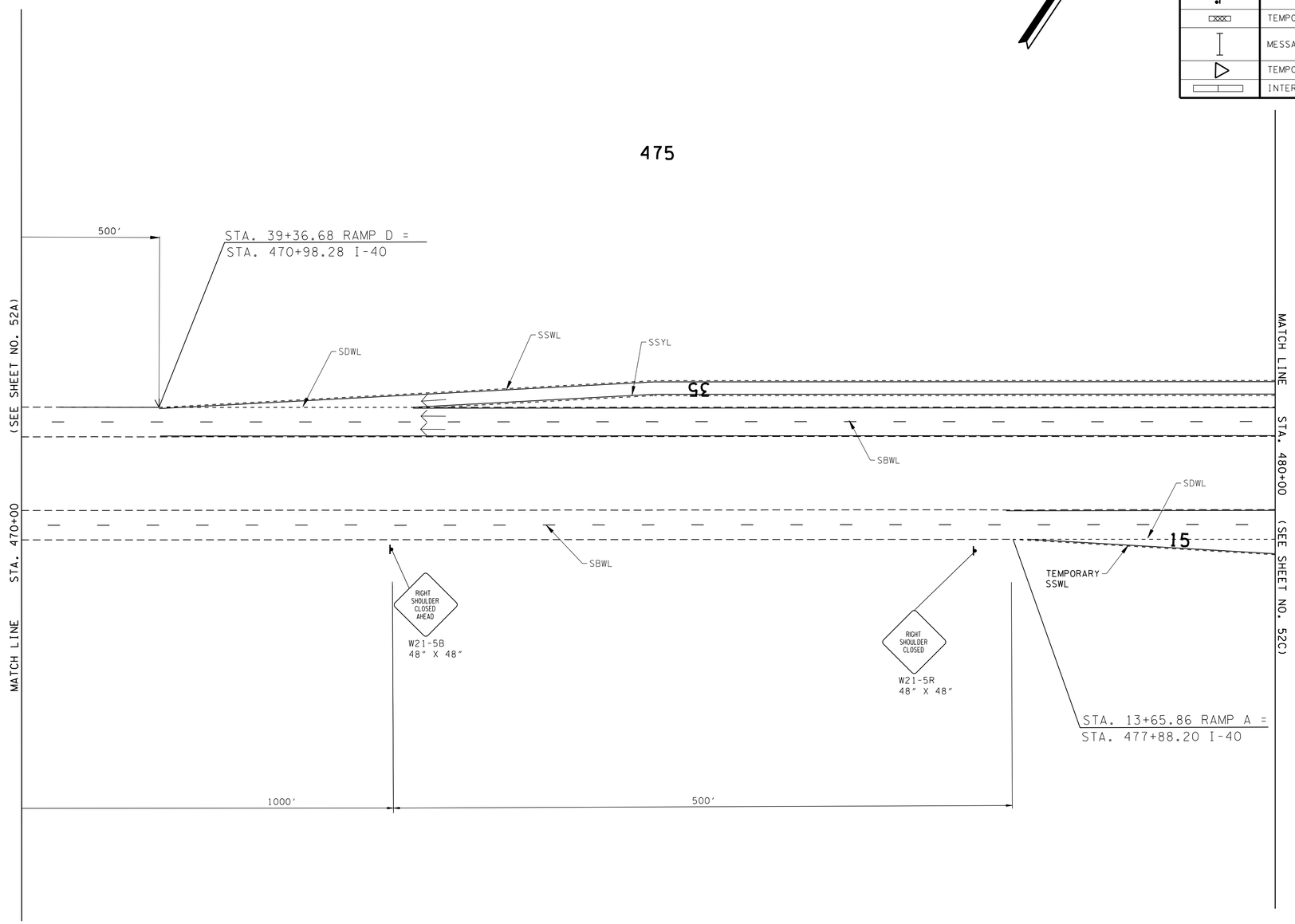
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52B

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA. 470+00 TO STA.480+00

SCALE: 1"=50'

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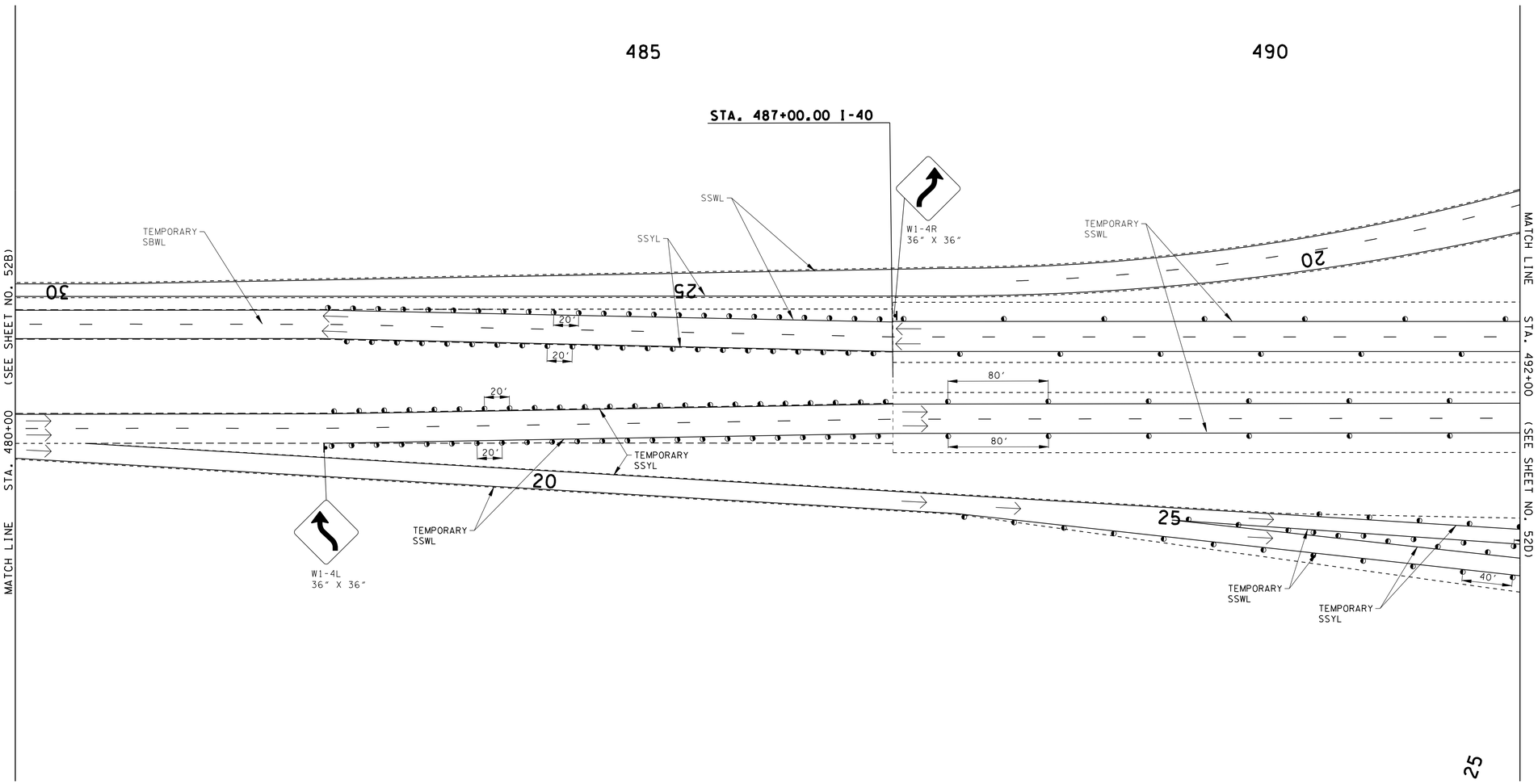
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52C

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA. 480+00 TO STA.492+00

SCALE: 1"=50'

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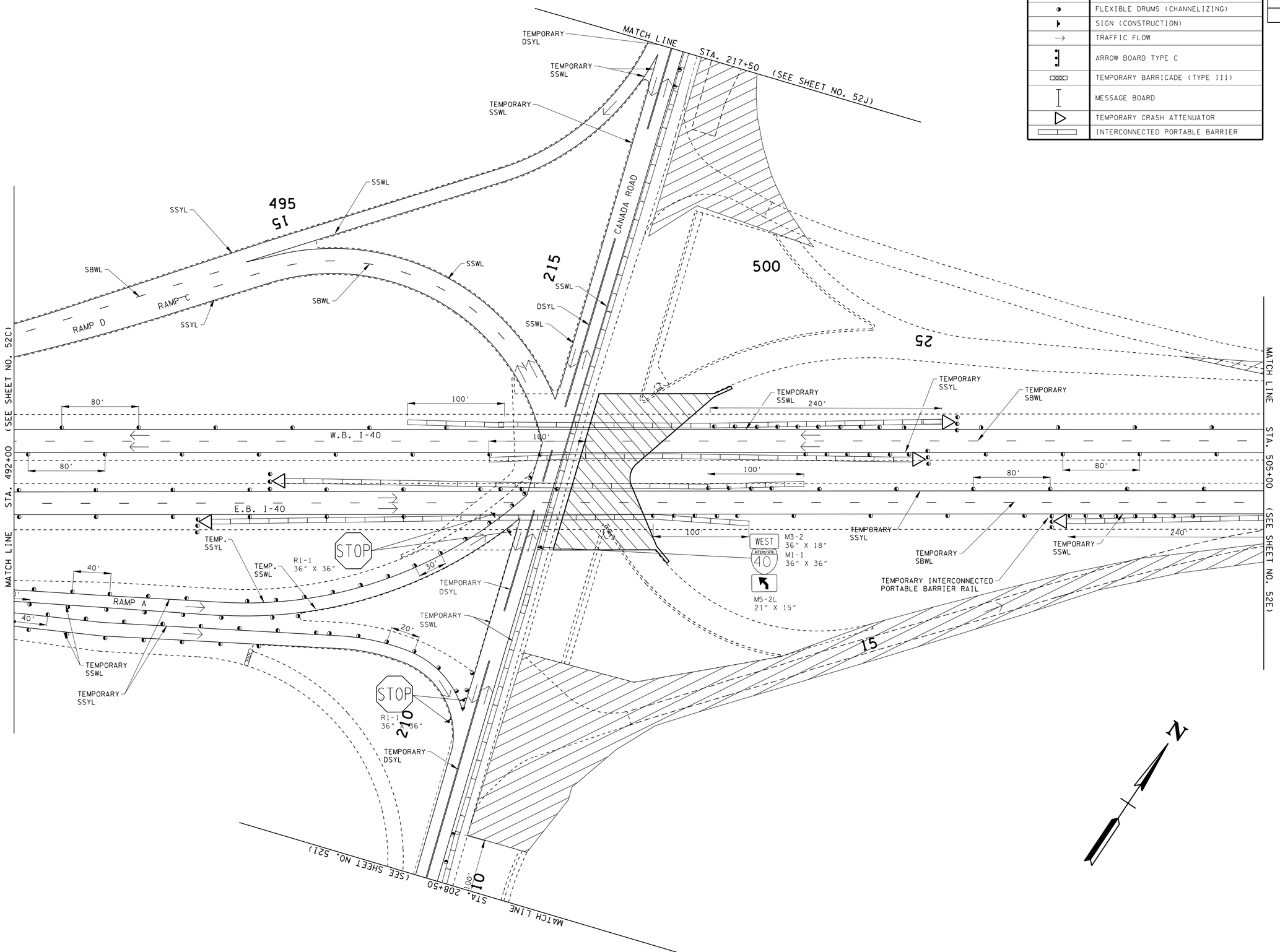
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52D

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA.492+00 TO STA.505+00

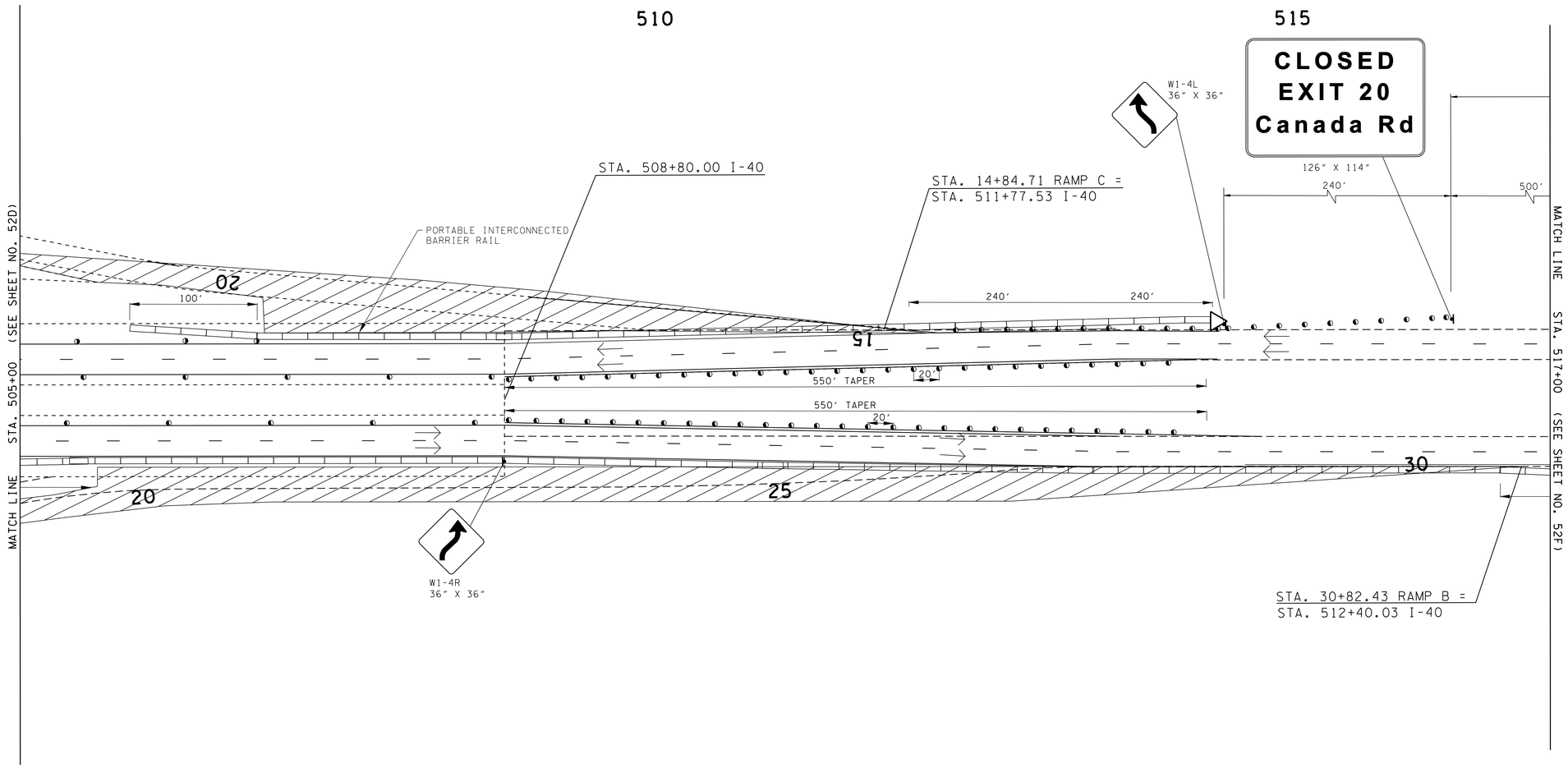
SCALE: 1"=50'

2/24/2014 1:55:31PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\052D TrafficControlPhase6-SHT04.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA.505+00 TO STA. 517+00

SCALE: 1"=50'

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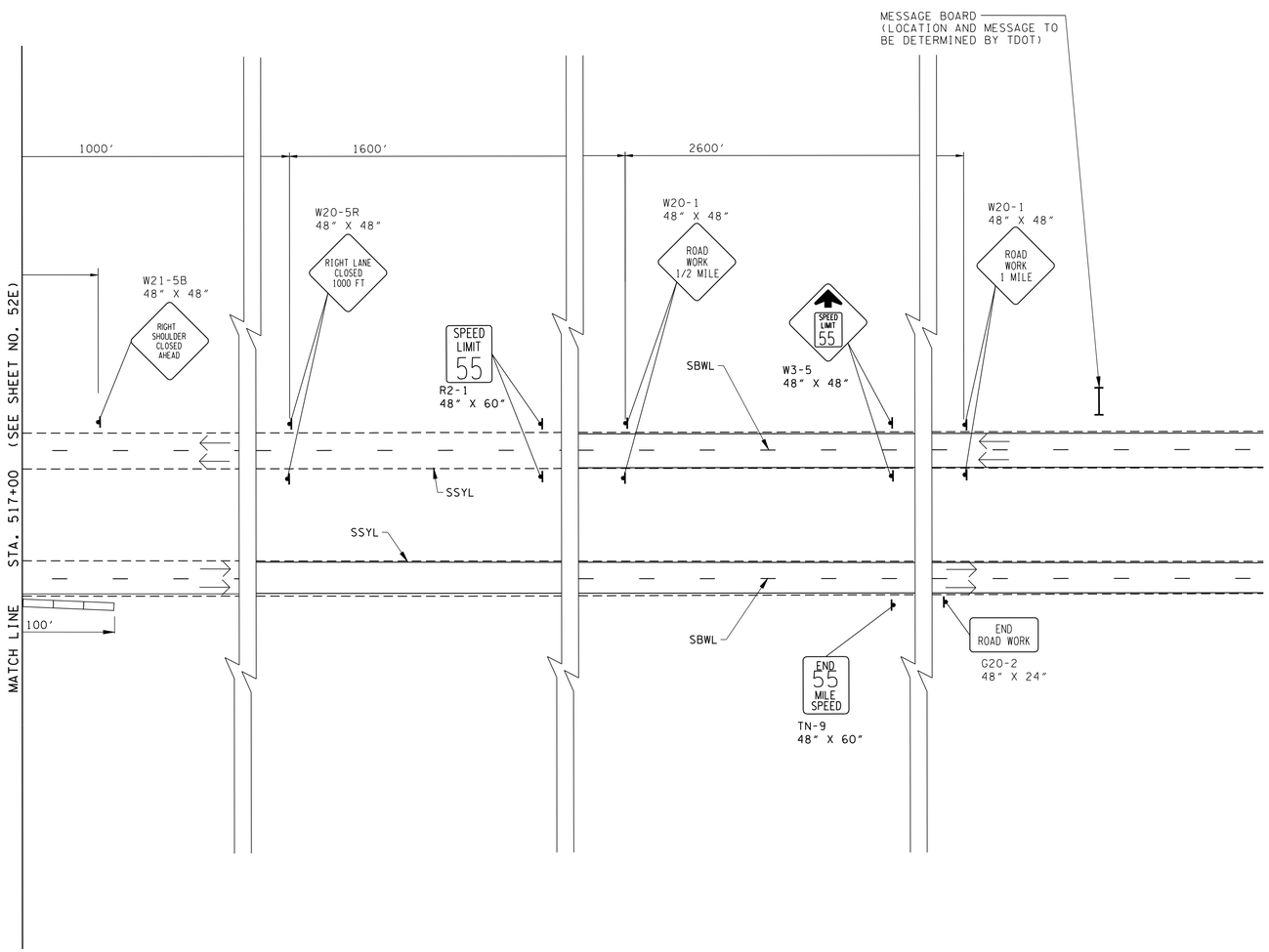
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52F

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA.517+00 TO E.O.P.

SCALE: 1"=50'

2/24/2014 1:55:35 PM
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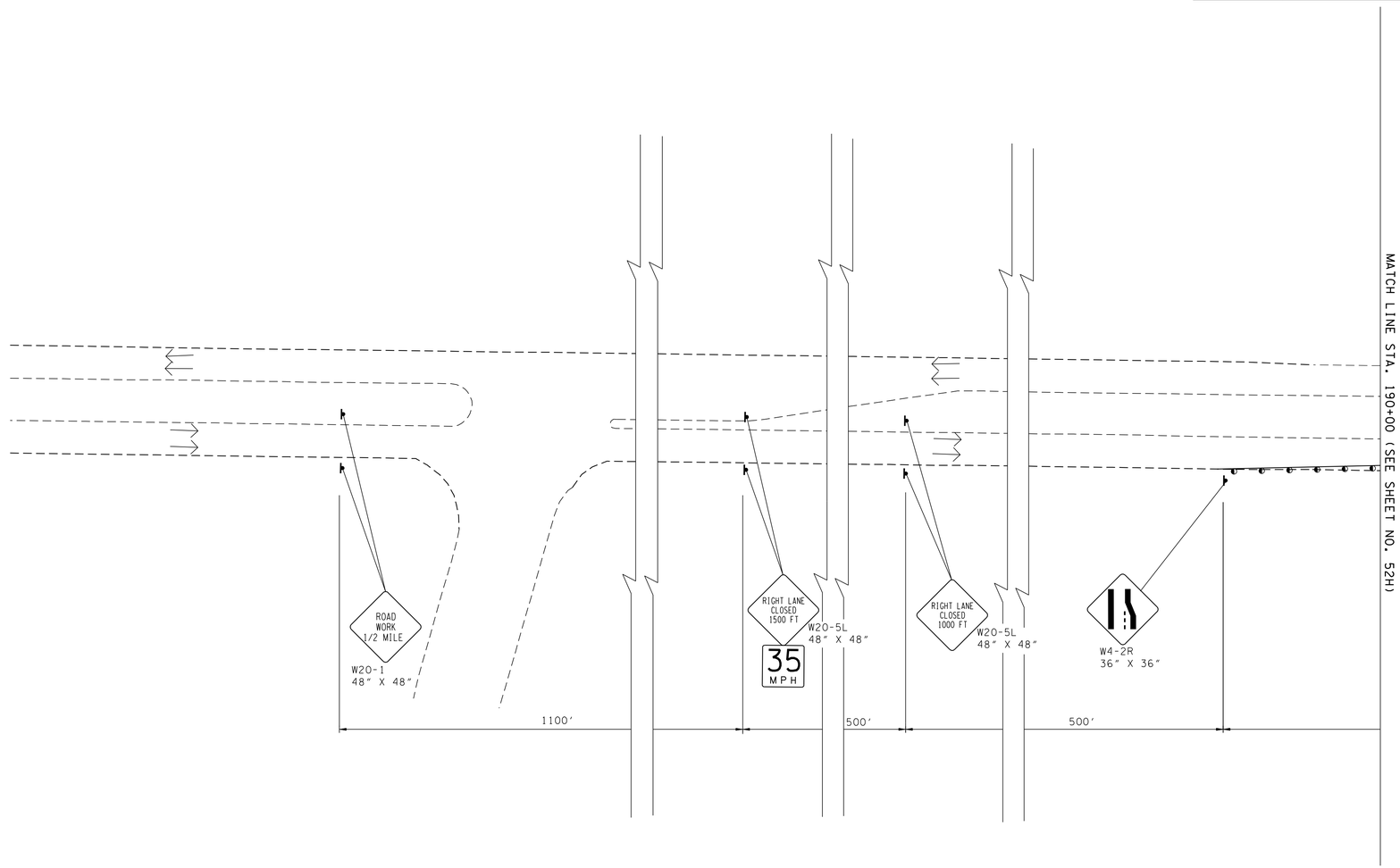
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52G

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

B.O.P. TO STA.190+00

SCALE: 1"=50'

2/24/2014 1:55:37 PM
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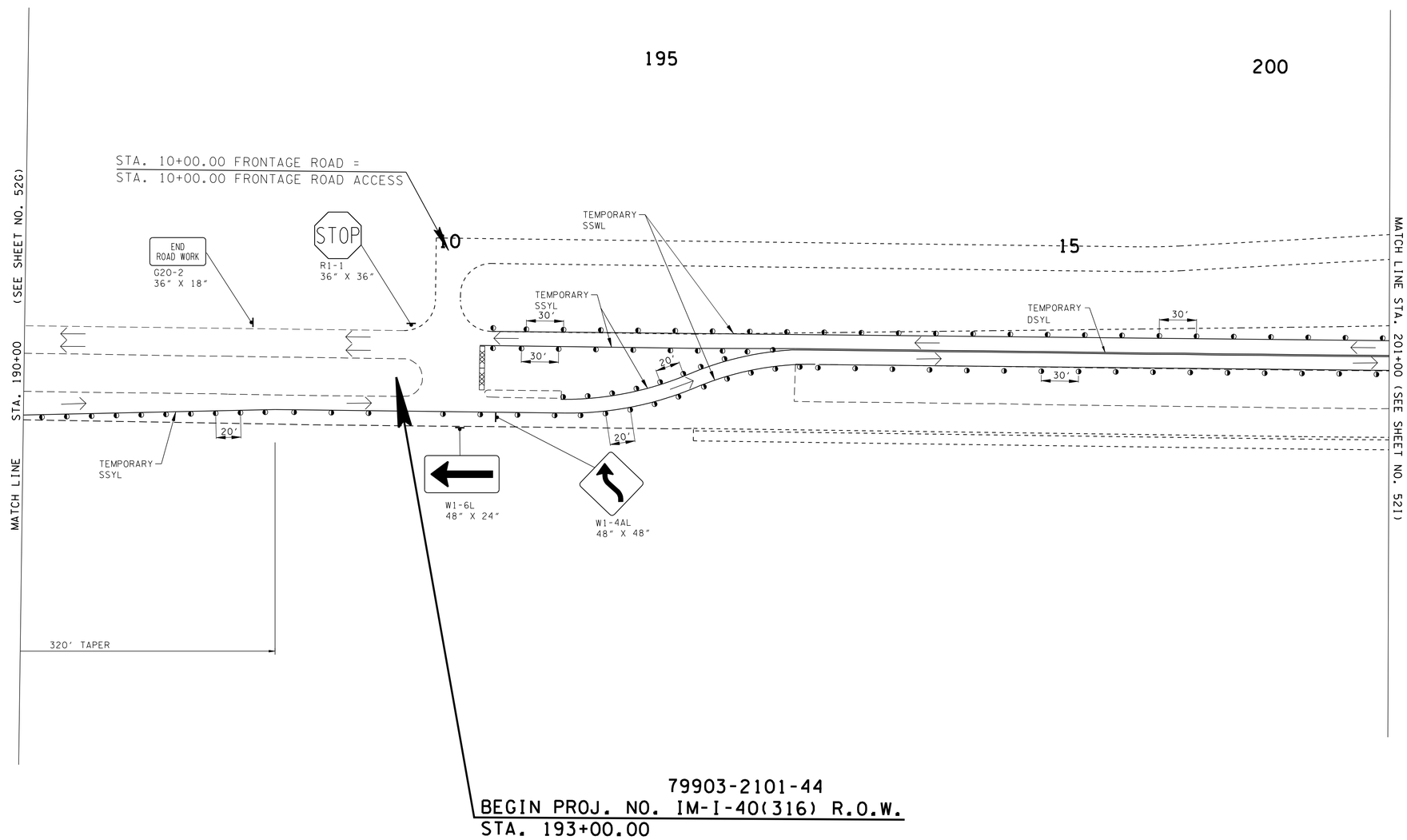
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52H

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA. 190+00 TO STA.201+00

SCALE: 1"=50'

2/24/2014 1:55:39 PM
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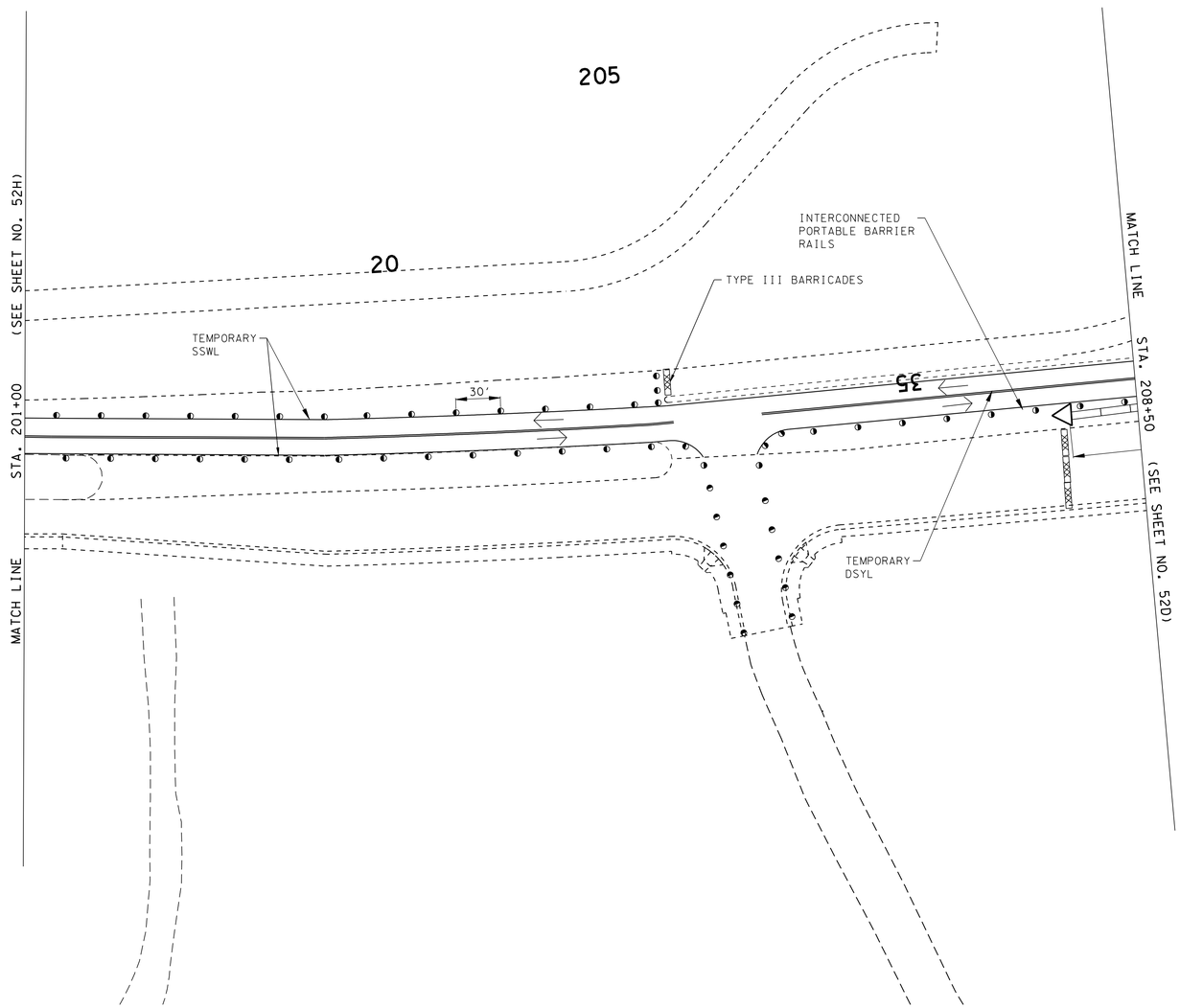
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	521

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA.201+00 TO STA.208+50

SCALE: 1"=50'

2/24/2014 1:55:41PM
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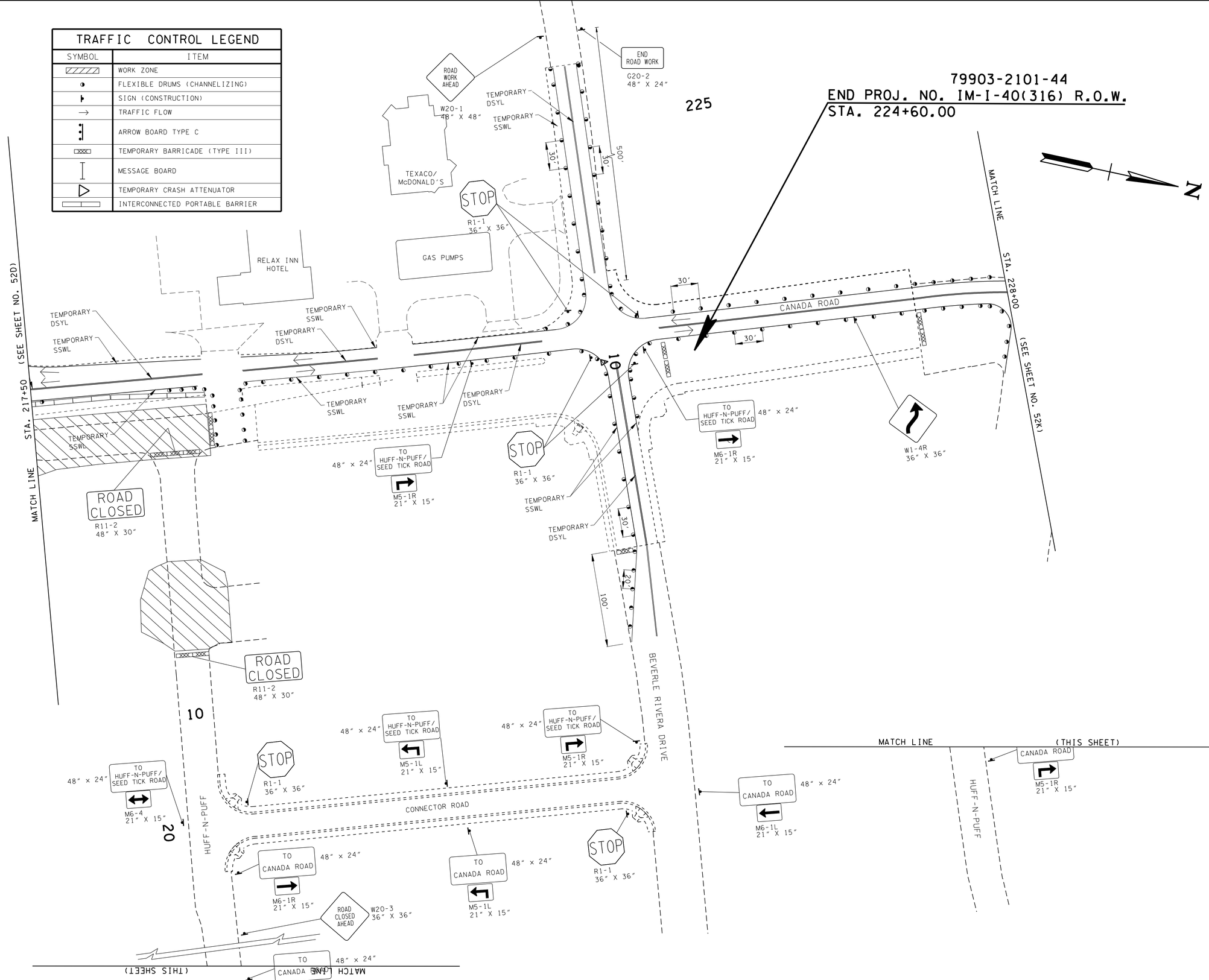
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52J

TRAFFIC CONTROL LEGEND

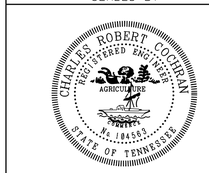
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA.217+50 TO STA. 228+00

SCALE: 1"=50'

12/24/2014 1:55:44 PM
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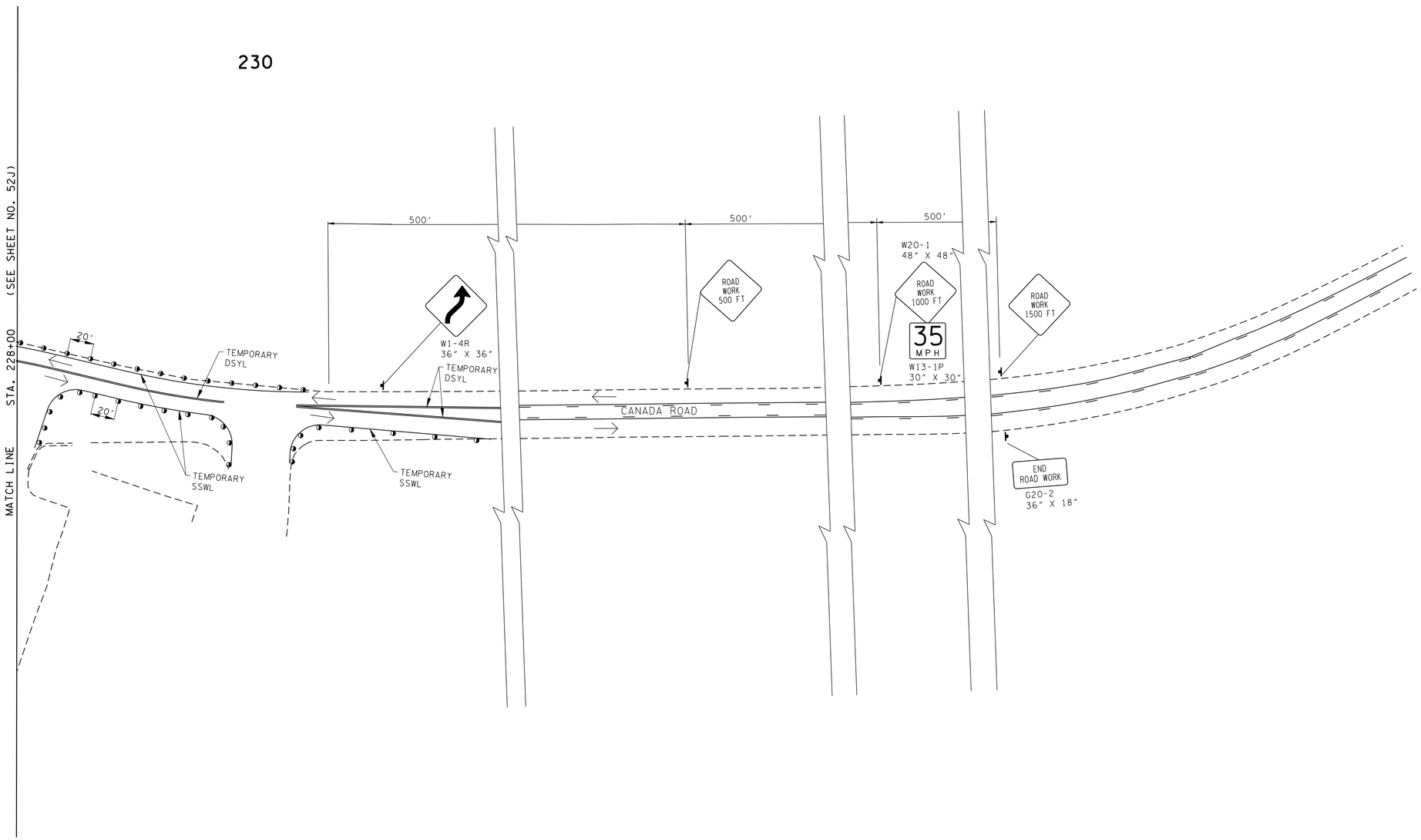
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52K

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	TEMPORARY BARRICADE (TYPE III)
	MESSAGE BOARD
	TEMPORARY CRASH ATTENUATOR
	INTERCONNECTED PORTABLE BARRIER



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 6

STA.228+00 TO E.O.P.

SCALE: 1"=50'

2/24/2014 1:55:47 PM
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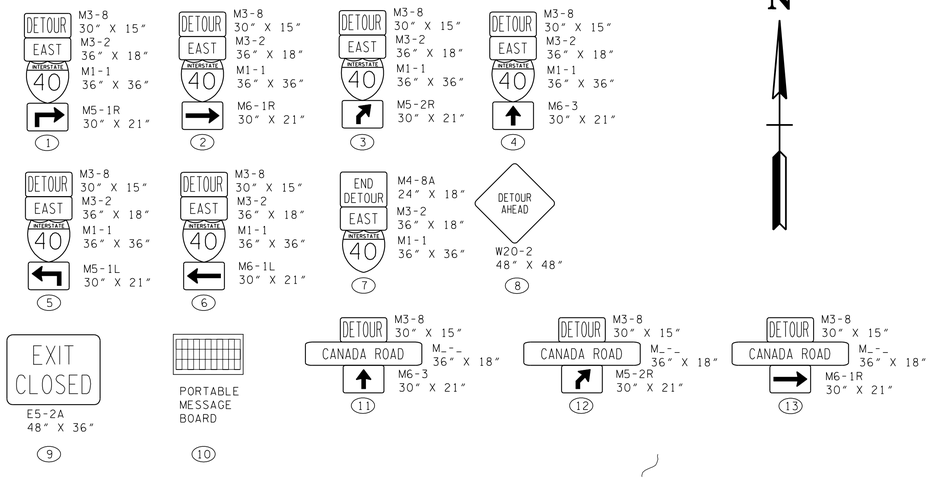
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	52L



N

CONSTRUCTION PHASE VI - RAMP CLOSURES

1. INSTALL DETOURING SIGNS AND CHANGEABLE MESSAGE BOARDS AS SHOWN ON THIS SHEET (ADVANCE WARNING SIGNS AND ALL TRAFFIC CONTROL DEVICES INSTALLED FOR PHASE VI CONSTRUCTION SHALL REMAIN IN PLACE.)

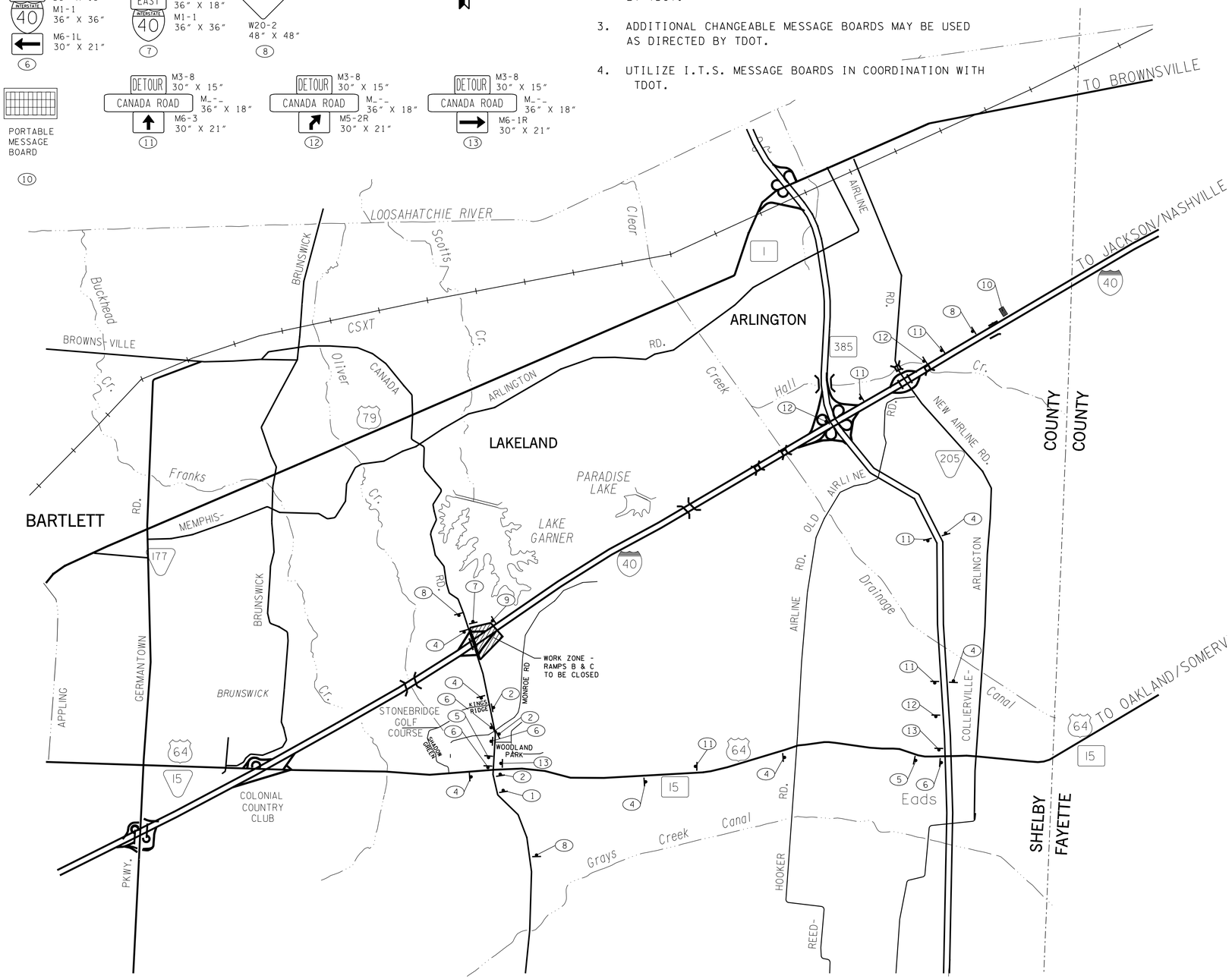
2. INSTALL PORTABLE BARRIER RAIL AND RAMP CLOSURE TRAFFIC CONTROL DEVICES AS SHOWN IN PHASE VI TRAFFIC CONTROL PLANS AS A MINIMUM. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE USED AS DIRECTED BY TDOT.

3. ADDITIONAL CHANGEABLE MESSAGE BOARDS MAY BE USED AS DIRECTED BY TDOT.

4. UTILIZE I.T.S. MESSAGE BOARDS IN COORDINATION WITH TDOT.

RECOMMENDED MESSAGE BOARD TEXT

SIGN 11: "EXIT 20 RAMP TO CANADA ROAD CLOSED" "DETOUR AHEAD"



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETOUR PLAN PHASE 6

NOT TO SCALE

2/24/2014 1:55:48 PM
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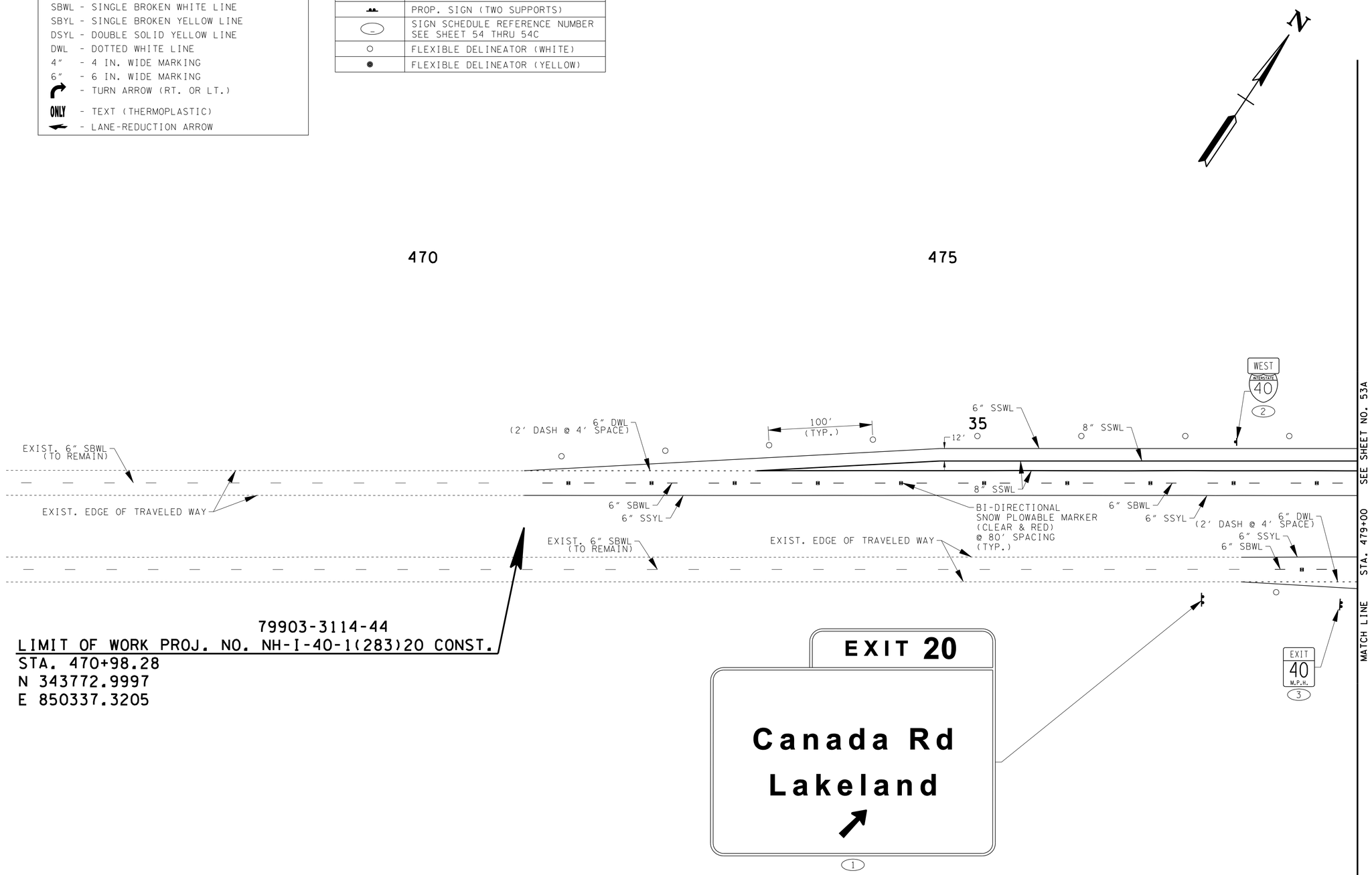
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53

MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

SIGNING LEGEND

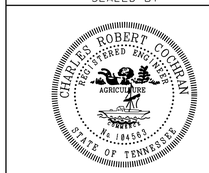
SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
	FLEXIBLE DELINEATOR (WHITE)
	FLEXIBLE DELINEATOR (YELLOW)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

B.O.P. TO STA.479+00

SCALE: 1"=50'

2/24/2014 4:55:52 PM
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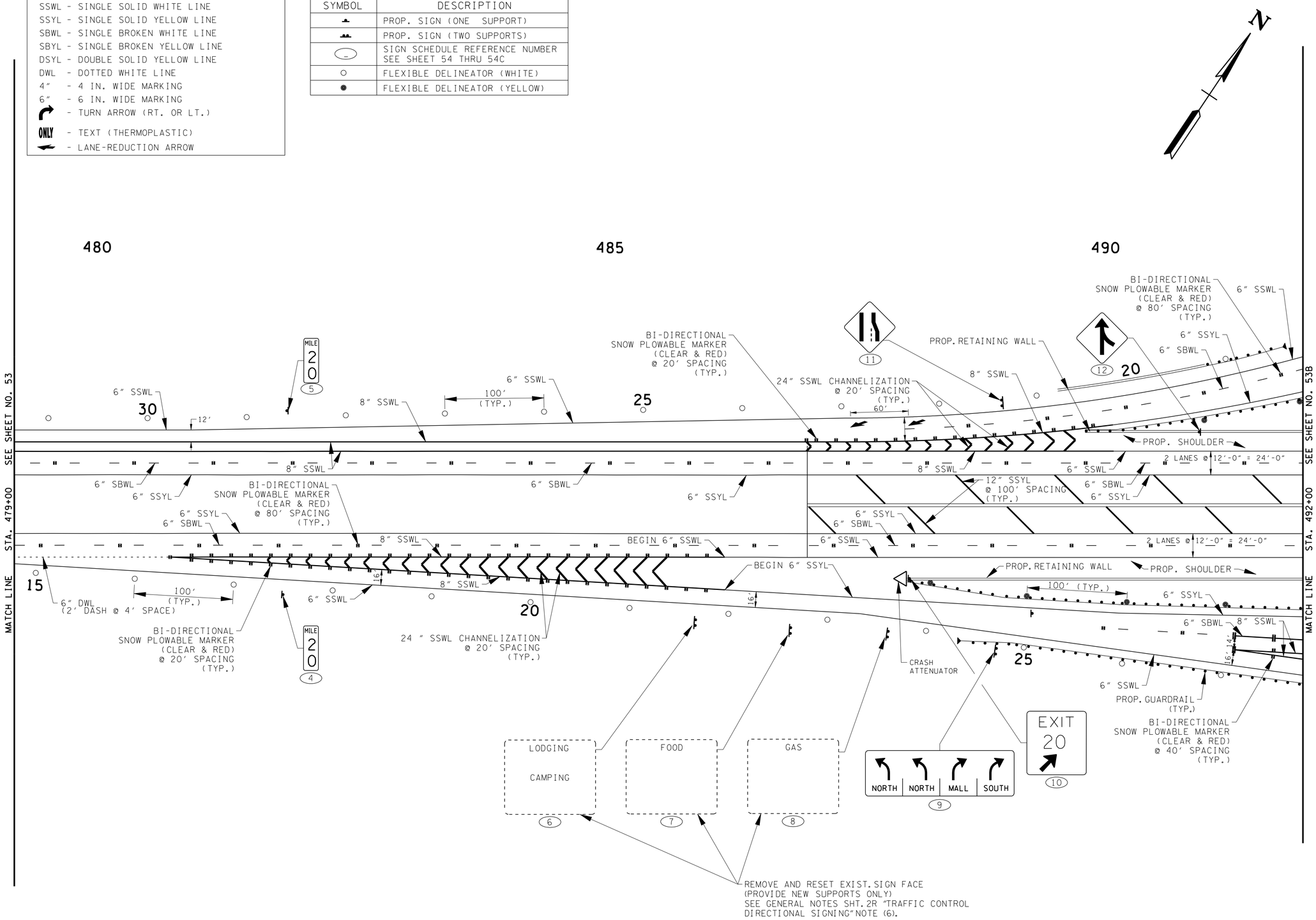
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53A

MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

SIGNING LEGEND

SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
	FLEXIBLE DELINEATOR (WHITE)
	FLEXIBLE DELINEATOR (YELLOW)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

STA. 479+00 TO STA. 492+00

SCALE: 1"=50'

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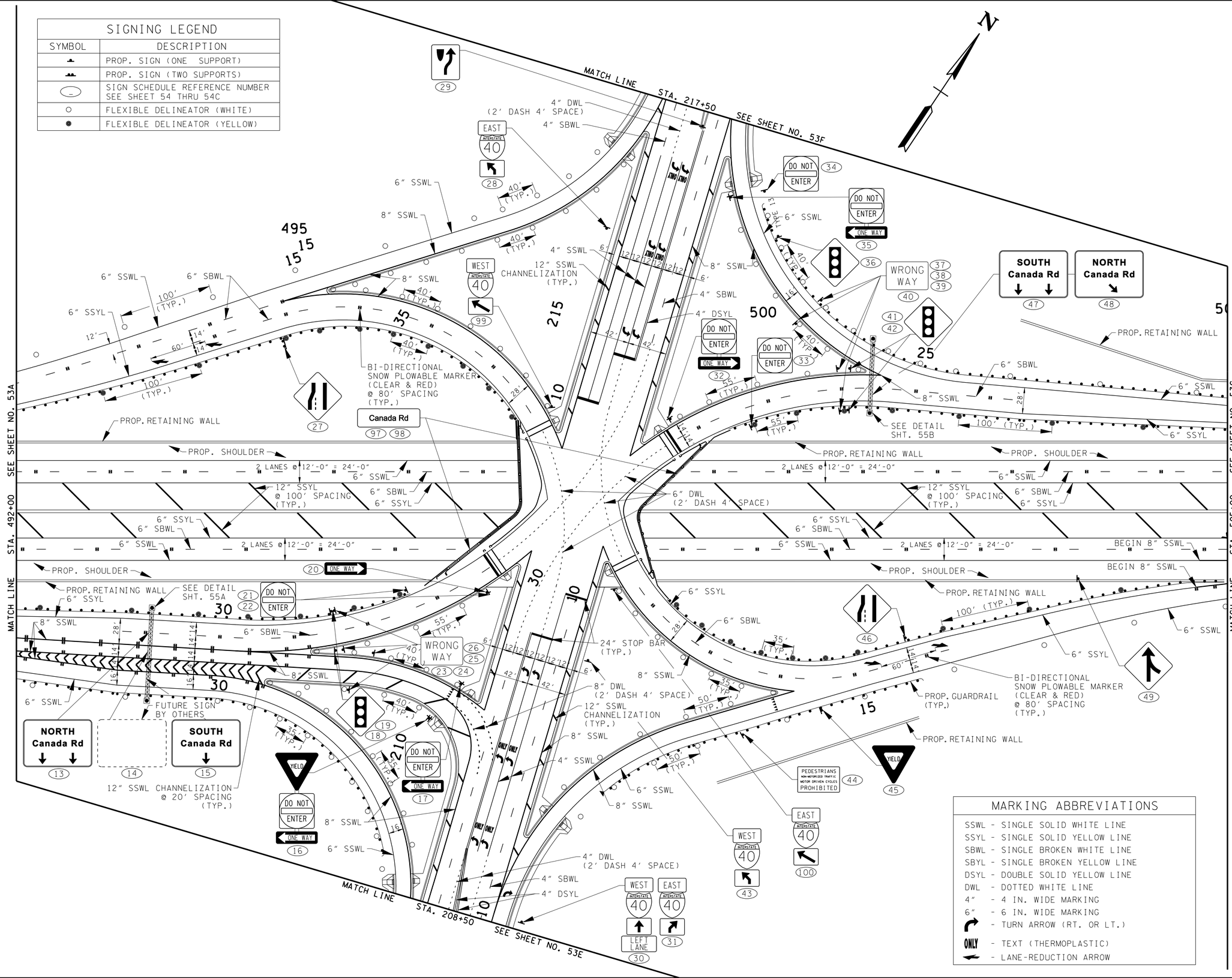
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53B

SIGNING LEGEND	
SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
	FLEXIBLE DELINEATOR (WHITE)
	FLEXIBLE DELINEATOR (YELLOW)



MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

UNOFFICIAL SET

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SEALED BY

CHARLES ROBERT COCHRAN REGISTERED ENGINEER AGRICULTURE No. 104563 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

STA. 492+00 TO STA. 505+00

SCALE: 1"=50'

2/24/2014 1:56:03 PM
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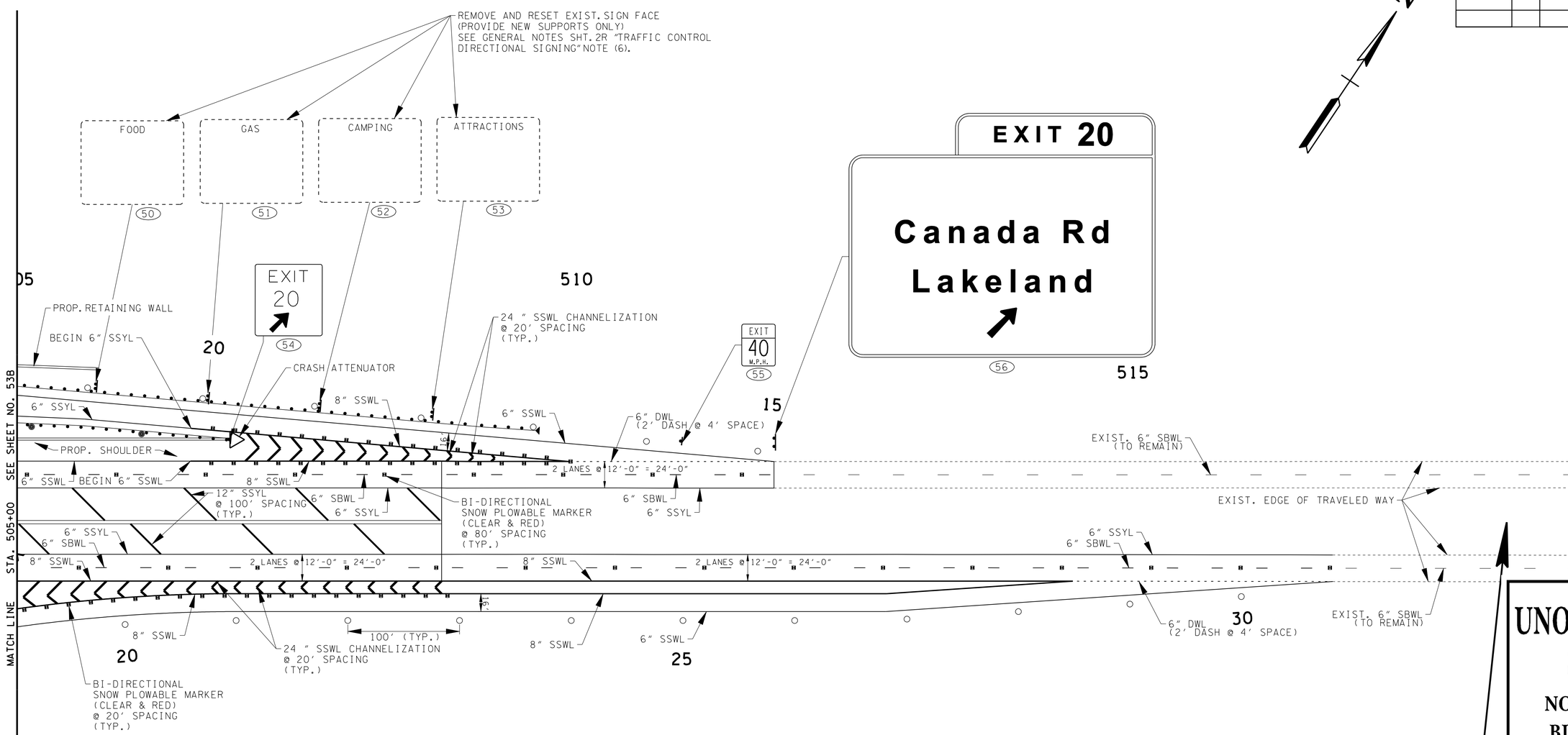
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53C



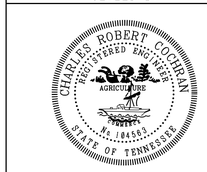
79903-3114-44

LIMIT OF WORK PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 518+33.46
N 346402.7512
E 854275.1407

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

SIGNING LEGEND

SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
	FLEXIBLE DELINEATOR (WHITE)
	FLEXIBLE DELINEATOR (YELLOW)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

STA. 505+00 TO E.O.P.

SCALE: 1"=50'

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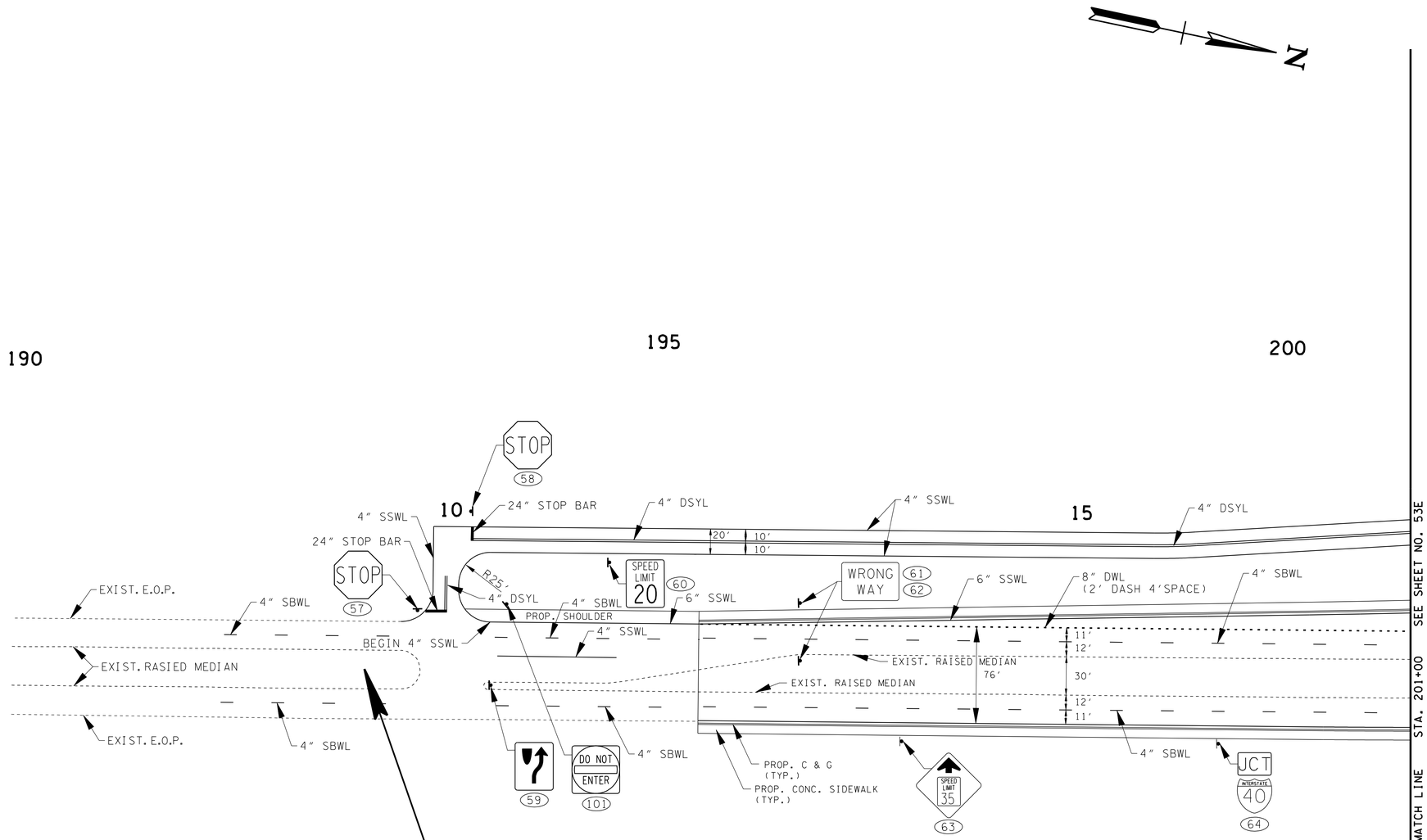
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53D



79903-3114-44
BEGIN PROJ. NO. NH-I-40-1(283)20 CONST.
STA. 192+77.34
N 343315.4518
E 853076.0563

MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

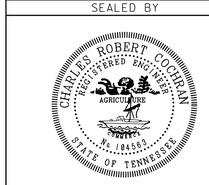
SIGNING LEGEND

SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
○	FLEXIBLE DELINEATOR (WHITE)
●	FLEXIBLE DELINEATOR (YELLOW)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

B.O.P. TO STA.201+00

SCALE: 1"=50'

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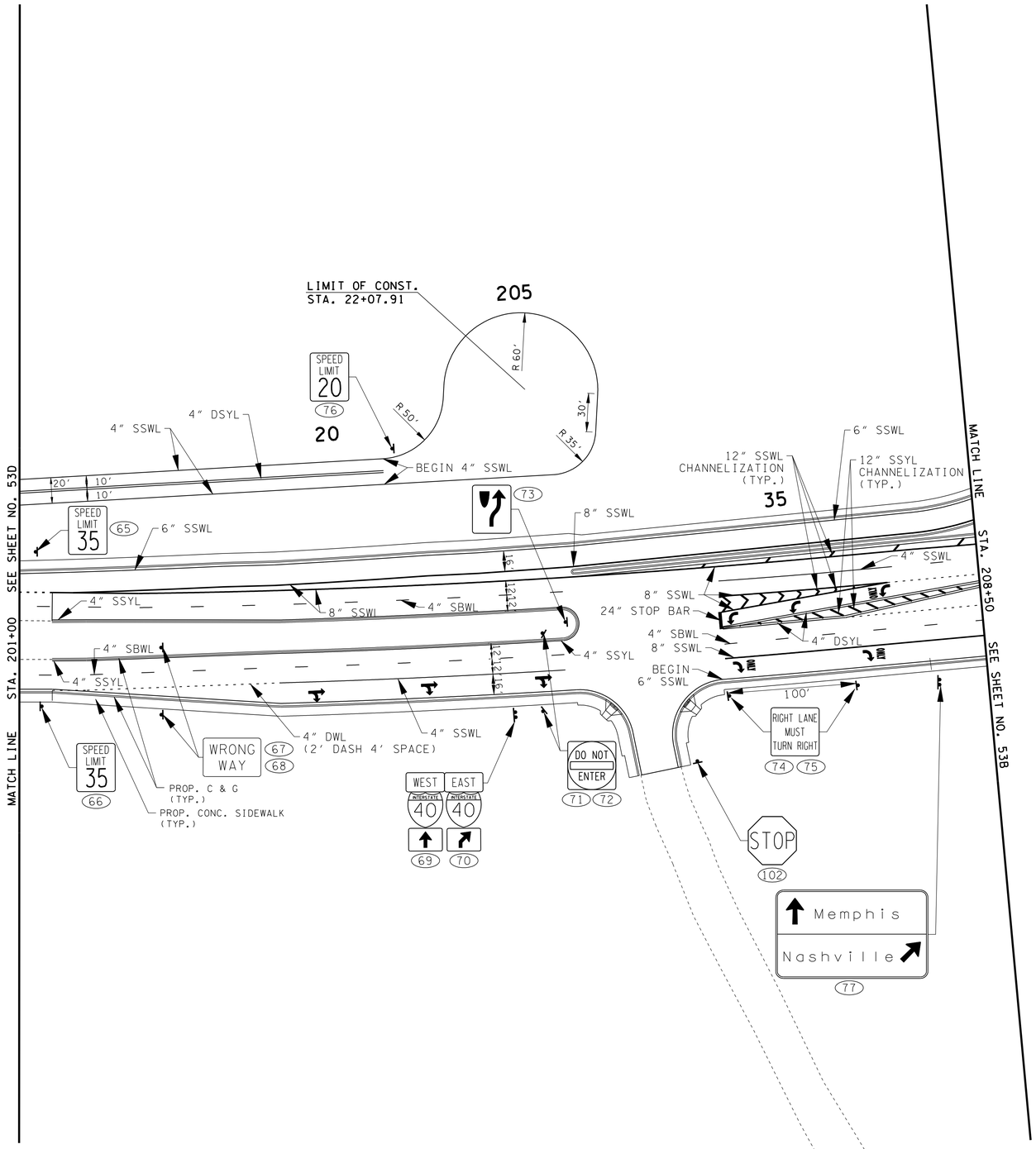
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53E

MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

SIGNING LEGEND

SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
	FLEXIBLE DELINEATOR (WHITE)
	FLEXIBLE DELINEATOR (YELLOW)



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

STA. 201+00 TO STA. 208+50

SCALE: 1"=50'

2/24/2014 1:56:15 PM
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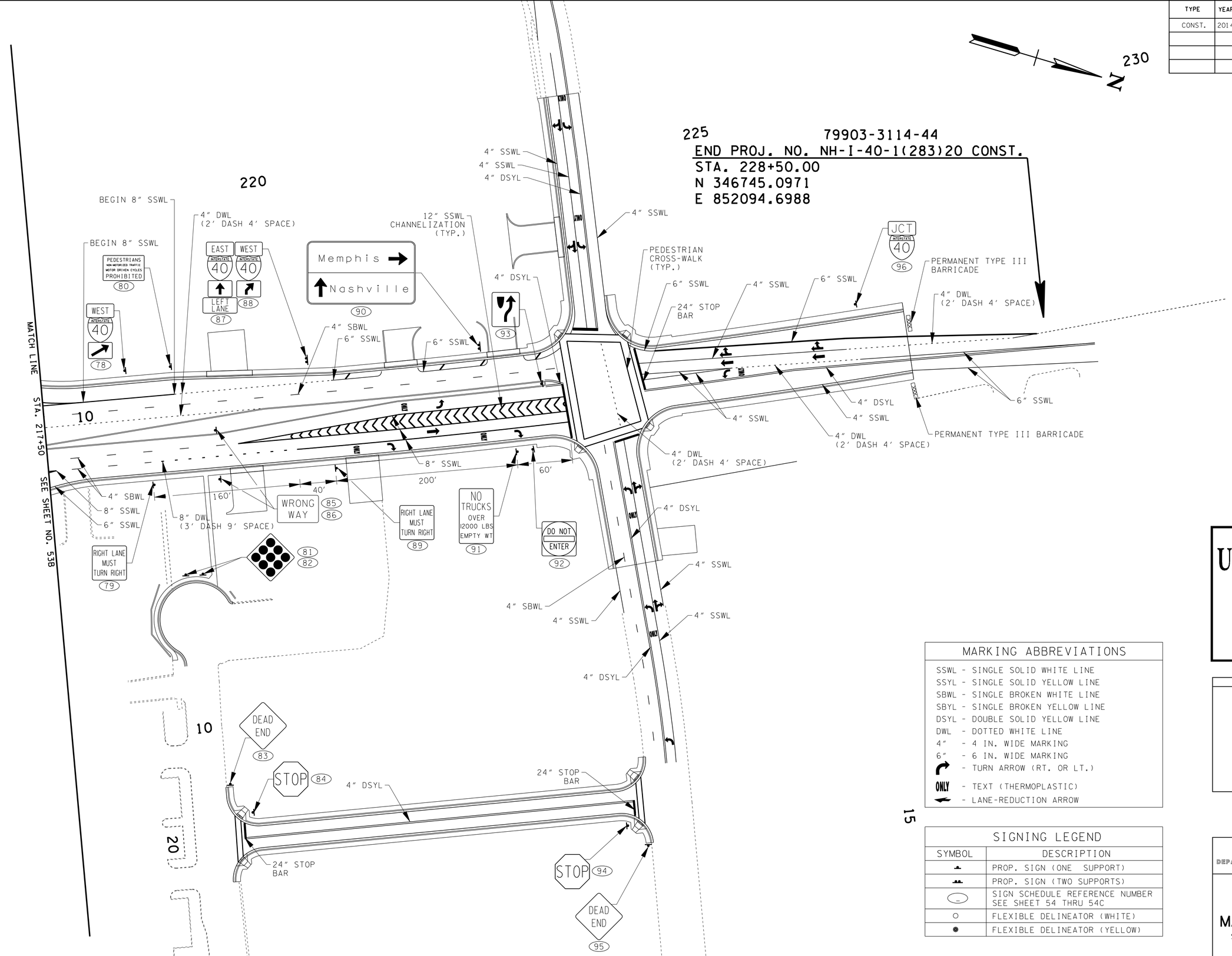
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	53F



MARKING ABBREVIATIONS

SSWL - SINGLE SOLID WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBWL - SINGLE BROKEN WHITE LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE
DWL - DOTTED WHITE LINE
4" - 4 IN. WIDE MARKING
6" - 6 IN. WIDE MARKING
- TURN ARROW (RT. OR LT.)
ONLY - TEXT (THERMOPLASTIC)
- LANE-REDUCTION ARROW

SIGNING LEGEND

SYMBOL	DESCRIPTION
	PROP. SIGN (ONE SUPPORT)
	PROP. SIGN (TWO SUPPORTS)
	SIGN SCHEDULE REFERENCE NUMBER SEE SHEET 54 THRU 54C
○	FLEXIBLE DELINEATOR (WHITE)
●	FLEXIBLE DELINEATOR (YELLOW)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING PLAN

STA.217+50 TO E.O.P.

SCALE: 1"=50'

15

2/24/2014 1:56:20 PM
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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)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
REGULATORY SIGNAGE																						
9	NORTH NORTH MALL SOUTH R3-8b	53A	66"	36"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	S3 X 5.7	H_1 = 13'-6" H_2 = 13'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
16	YIELD R1-2	53B	36"X36"X36"										RED (REF.)	WHITE (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 14'-6"				7'-0"	
	DO NOT ENTER R5-1		36"	36"									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100" SHEET ALUMINUM							MOUNT SIGN R5-1 ON BACK OF SIGN R1-2 FOR SIGN 16.
	ONE WAY R6-1L		36"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM							MOUNT SIGN R6-1L WITH SIGN R5-1 FOR SIGN 16.
17	DO NOT ENTER R5-1	53B	36"	36"									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 14'-6"				7'-0"	
35	ONE WAY R6-1L		36"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM		H_1 = 14'-6"					MOUNT SIGN R6-1L WITH SIGN R5-1 FOR BOTH SIGNS 17, 35.
20	DO NOT ENTER R5-1	53B	36"	36"									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 14'-6"				7'-0"	MOUNT SIGN R6-1R WITH SIGN R5-1 FOR 21.
21																						
32	ONE WAY R6-1R		36"	12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM		H_1 = 14'-6"					MOUNT SIGN R6-1R WITH SIGN R5-1 FOR SIGN 32.
22	DO NOT ENTER R5-1	53B	36"	36"									WHITE (REF.)	RED (REF.) WHITE (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 13'-6"				7'-0"	
33																	H_1 = 13'-6"					
34																	H_1 = 13'-6"					
71		53E															H_1 = 13'-6"					
72																	H_1 = 13'-6"					
92		53F															H_1 = 13'-6"					
101		53D															H_1 = 13'-6"					
23	WRONG WAY R5-1a	53B	36"	24"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 11'-6"				7'-0"	
24																	H_1 = 11'-6"					
25																	H_1 = 11'-6"					
26																	H_1 = 11'-6"					
37																	H_1 = 11'-6"					
38																	H_1 = 11'-6"					
39																	H_1 = 11'-6"					
40																	H_1 = 11'-6"					
61		53D															H_1 = 11'-6"					
62																	H_1 = 11'-6"					
67		53E															H_1 = 11'-6"					
68																	H_1 = 11'-6"					
85		53F															H_1 = 11'-6"					
86																	H_1 = 11'-6"					
29	R4-7	53B	24"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	U3	H_1 = 13'-0"				7'-0"	
59		53D															H_1 = 13'-0"					
73		53E															H_1 = 13'-0"					
93		53F															H_1 = 13'-0"					
45	YIELD R1-2	53B	48"X48"X48"										RED (REF.)	WHITE (REF.)	0.100" SHEET ALUMINUM	U3	H_1 = 14'-6"				7'-0"	
57	STOP R1-1	53D	30"	30"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	U3	H_1 = 13'-0"				7'-0"	
58																						
84		53F																				
94																						
102		53E																				
60	SPEED LIMIT 20 SPEED LIMIT 35 R2-1	53D	24"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	U6	H_1 = 13'-0"				7'-0"	
76																	H_1 = 13'-0"					
65		53E	30"	36"												P8	H_1 = 13'-6"					
66																	H_1 = 13'-6"					

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	54

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

2/24/2014 1:58:44 PM
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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)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
74 75 79 89	RIGHT LANE MUST TURN RIGHT R3-7(R)	53E 53F	36"	36"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 13'-6" H_1 = 13'-6" H_1 = 13'-6" H_1 = 13'-6"				7'-0"	
91	NO TRUCKS OVER 12000 LBS EMPTY WT	53F	24"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	U6	H_1 = 13'-0"				7'-0"	
WARNING SIGNAGE																						
3 55	EXIT 40 M.P.H. W13-2	53 53C	48"	60"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	S3 X 5.7	H_1 = 14'-0" H_2 = 14'-0" H_1 = 14'-0" H_2 = 14'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
11 27 46	W4-2R	53A 53B	48"	48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	S3 X 5.7	H_1 = 13'-0" H_2 = 13'-0" H_1 = 13'-0" H_2 = 13'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
12 49	W4-1R	53A 53B	36"	36"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	SEE REMARKS					7'-0"	MOUNT TO CONCRETE RETAINING WALL; 3" X 3"⧄ ITEM NO. 713-30.09 (SEE STD. DWG. T-S-21)
18 19 36 41 42	W3-3	53B	36"	36"									BLACK RED, YELLOW, GREEN (REF.)	YELLOW (REF.)	0.100" SHEET ALUMINUM	2.5" ⧄ @ 3.98 #/ft. P8 2.5" ⧄ @ 3.98 #/ft.	H_1 = 12'-0" H_1 = 12'-0" H_1 = 13'-6" H_1 = 12'-0" H_1 = 12'-0"	TYPE 4 D=1'-0" TYPE 4 D=1'-0"	0.12 0.12	26.4 26.4	7'-0"	
63	SPEED LIMIT 35 W3-5	53D	36"	36"									(ARROW) BLACK (SYMBOL) SEE R2-1	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 13'-6"				7'-0"	
81 82	OM4-1	53F	18"	18"	SEE STD. DWG. T-S-18																	ITEM PAID FOR UNDER 713-16.07 AND WILL BE MEASURED FOR PAYMENT BY UNIT (EACH) COMPLETE IN PLACE. THIS PAY ITEM SHALL INCLUDE THE FURNISHING AND INSTALLING OF THE SIGNS, REFLECTORS, SUPPORT, AND HARDWARE.
83 95	DEAD END W14-1	53F	36"	36"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	P8	H_1 = 11'-6" H_1 = 11'-6"				7'-0"	
GUIDE SIGNAGE																						
1 56	EXIT 20 Canada Rd Lakeland ↗	53 53C	9'-0" 14'-0"	2'-0" 9'-0"	12"	2"	10" 16"	12"	15"	"E MOD"		TYPE "G" @ 45°	WHITE (REF.)	GREEN (REF.)	2-12" ALUMINUM EXTRUSIONS 9-12" ALUMINUM EXTRUSIONS	W8 X 24	H_1 = 20'-0" H_2 = 20'-0" H_1 = 20'-0" H_2 = 20'-0"	TYPE 6 D=1'-6" E=6'-6"	0.43	113.2	7'-0"	
13	NORTH Canada Rd ↓ ↓	53B	19'-0"	8'-0"	12"	2"	12" 16"	12"		"E MOD"		TYPE "H"	WHITE (REF.)	GREEN (REF.)	8-12" ALUMINUM EXTRUSIONS	SEE REMARKS					19'-6"	PROPOSED OVERHEAD SIGN STRUCTURE (SEE DETAIL SHEET 55) PAY ITEM No. 713-09.01 FOR THIS SIGN STRUCTURE TO INCLUDE COST OF GEOTECHNICAL INVESTIGATION AND REINFORCED CONCERTE PIER FOUNDATIONS

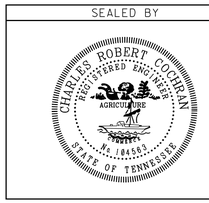
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	54A

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

3/17/2014 11:00:42 AM
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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)

SEE STD. DWG. NO. T-S-19

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	54B

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
15	SOUTH Canada Rd ↓	53B	14'-0"	8'-0"	12"	2"	12" 16"	12"		"E MOD"		TYPE "H"	WHITE (REF.)	GREEN (REF.)	8-12" ALUMINUM EXTRUSIONS	SEE REMARKS					19'-6"	PROPOSED OVERHEAD SIGN STRUCTURE (SEE DETAIL SHEET 55) PAY ITEM No. 713-09.01 FOR THIS SIGN STRUCTURE TO INCLUDE COST OF GEOTECHNICAL INVESTIGATION AND REINFORCED CONCERTE PIER FOUNDATIONS
47	SOUTH Canada Rd ↓ ↓	53B	16'-0"	8'-0"	12"	2"	12" 16"	12"		"E MOD"		TYPE "H"	WHITE (REF.)	GREEN (REF.)	8-12" ALUMINUM EXTRUSIONS	SEE REMARKS					19'-6"	PROPOSED OVERHEAD SIGN STRUCTURE (SEE DETAIL SHEET 55A) PAY ITEM No. 713-09.02 FOR THIS SIGN STRUCTURE TO INCLUDE COST OF GEOTECHNICAL INVESTIGATION AND REINFORCED CONCERTE PIER FOUNDATIONS
48	NORTH Canada Rd ↘	53B	14'-0"	8'-0"	12"	2"	12" 16"	12"		"E MOD"		TYPE "H" @ 45°	WHITE (REF.)	GREEN (REF.)	8-12" ALUMINUM EXTRUSIONS	SEE REMARKS					19'-6"	PROPOSED OVERHEAD SIGN STRUCTURE (SEE DETAIL SHEET 55A) PAY ITEM No. 713-09.02 FOR THIS SIGN STRUCTURE TO INCLUDE COST OF GEOTECHNICAL INVESTIGATION AND REINFORCED CONCERTE PIER FOUNDATIONS
90	Memphis → ↑ Nashville	53F	8'-0"	4'-0"	6"	1"	8"	6"		"E MOD"		TYPE "A"	WHITE (REF.)	GREEN (REF.)	4-12" ALUMINUM EXTRUSIONS	S3 X 5.7	H_1 = 13'-0" H_2 = 13'-0"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
77	↑ Memphis Nashville ↗	53E															H_1 = 13'-0" H_2 = 13'-0"					
2	WEST INTERSTATE 40 M3-4 M1-1	53	30" 36"	15" 36"									WHITE (REF.)	RED (REF.) BLUE (REF.)	0.080" SHEET ALUMINUM	2.5"∅ @ 3.98 #/FT	H_1 = 15'-0"	TYPE 4 D=1'-0"	0.12	26.4	7'-0"	
4 5	MILE 20 D10-2	53A	12"	36"									WHITE (REF.)	GREEN (REF.)	0.080" SHEET ALUMINUM						4'-0"	SEE STD. DWG. T-S-11 PAY ITEM NO. 713-02.04
10 54	EXIT 20 ↗ E5-1a	53A 53C	4'-0"	6'-0"	6"	2"	12"		15"	"E MOD"		TYPE "F" @ 45°	WHITE (REF.)	GREEN (REF.)	6-12" ALUMINUM EXTRUSIONS						7'-0"	MOUNT TO CONCRETE RETAINING WALL; 3" X 3"∅ ITEM NO. 713-30.10 (SEE STD. DWG. T-S-21)
28	EAST INTERSTATE 40 ↖ M3-2 M1-1 M5-2	53B	24" 24" 21"	12" 24" 15"									WHITE (REF.)	RED (REF.) BLUE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 13'-9"				7'-0"	
30 31	M3-4 WEST INTERSTATE 40 ↑ / M1-1 M6-3 M5-4 LEFT LANE EAST INTERSTATE 40 ↗ / M3-2 M1-1 M5-2	53B	24" 24" 21" 24"	12" 24" 15" 18"									WHITE (REF.) BLACK	BLUE (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 16'-3" H_1 = 13'-9"				7'-0"	
43	WEST INTERSTATE 40 ↖ M3-4 M1-1 M5-2	53B	24" 24" 21"	12" 24" 15"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 13'-9"				7'-0"	
69 70	M3-4 WEST INTERSTATE 40 ↑ / M1-1 M6-3 EAST INTERSTATE 40 ↗ / M3-2 M1-1 M5-2	53E	24" 24" 21"	12" 24" 15"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 13'-9" H_1 = 13'-9"				7'-0"	

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

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SIGN SCHEDULE

3/17/2014 11:04:10 AM
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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)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
78	WEST M3-4 / WEST M3-4 / EAST M3-2	53F	24"	12"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 13'-9"				7'-0"	
99	INTERSTATE 40 M1-1 / INTERSTATE 40 M1-1 / INTERSTATE 40 M1-1	53B	24"	24"													H_1 = 13'-9"					
100	M6-2R / M6-2L / M6-2L		21"	15"													H_1 = 13'-9"					
87	M3-2 EAST / M3-4 WEST	53F	24"	12"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 16'-3"				7'-0"	
	M1-1 INTERSTATE 40 / M1-1 INTERSTATE 40		24"	24"																		
88	M6-3 / M5-2		21"	15"													H_1 = 13'-9"					
	M5-4 LEFT LANE		24"	18"									BLACK	WHITE (REF.)								
64	JCT M4-5	53D	21"	15"									WHITE (REF.)	BLUE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 12'-9"				7'-0"	
96	INTERSTATE 40 M1-1	53F	24"	24"													H_1 = 12'-9"					
97 / 98	Canada Rd	53B	6'-0"	1'-6"	2"	1"	8"			"C"			WHITE (REF.)	BLUE (REF.)	0.100" SHEET ALUMINUM							COORD. WITH TDOT STRUCTURES DIVISION AND SIGNING PERSONNEL BEFORE MOUNTING.
TDOT SIGNAGE																						
44	PEDESTRIANS NON-MOTORIZED TRAFFIC MOTOR DRIVEN CYCLES PROHIBITED TN-21	53B	36"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	H_1 = 13'-0"				7'-0"	
80		53F															H_1 = 13'-0"					
LOGO SIGNAGE																						
6	LODGING CAMPING	53A	8'-0"	8'-0"												S6 X 12	H_1 = 18'-6" H_2 = 18'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
7	FOOD	53A	8'-0"	7'-0"												S6 X 12	H_1 = 17'-6" H_2 = 17'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
50		53C															H_1 = 17'-6" H_2 = 17'-6"					
8	GAS	53A	8'-0"	7'-0"												S6 X 12	H_1 = 17'-6" H_2 = 17'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
51		53C															H_1 = 17'-6" H_2 = 17'-6"					
52	CAMPING	53C	8'-0"	7'-0"												S6 X 12	H_1 = 17'-6" H_2 = 17'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	
53	ATTRACTIONS	53C	8'-0"	7'-0"												S6 X 12	H_1 = 17'-6" H_2 = 17'-6"	TYPE 5 D=1'-3"	0.18	50.1	7'-0"	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	54C

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MUI OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

3/17/2014 11:41:24 AM
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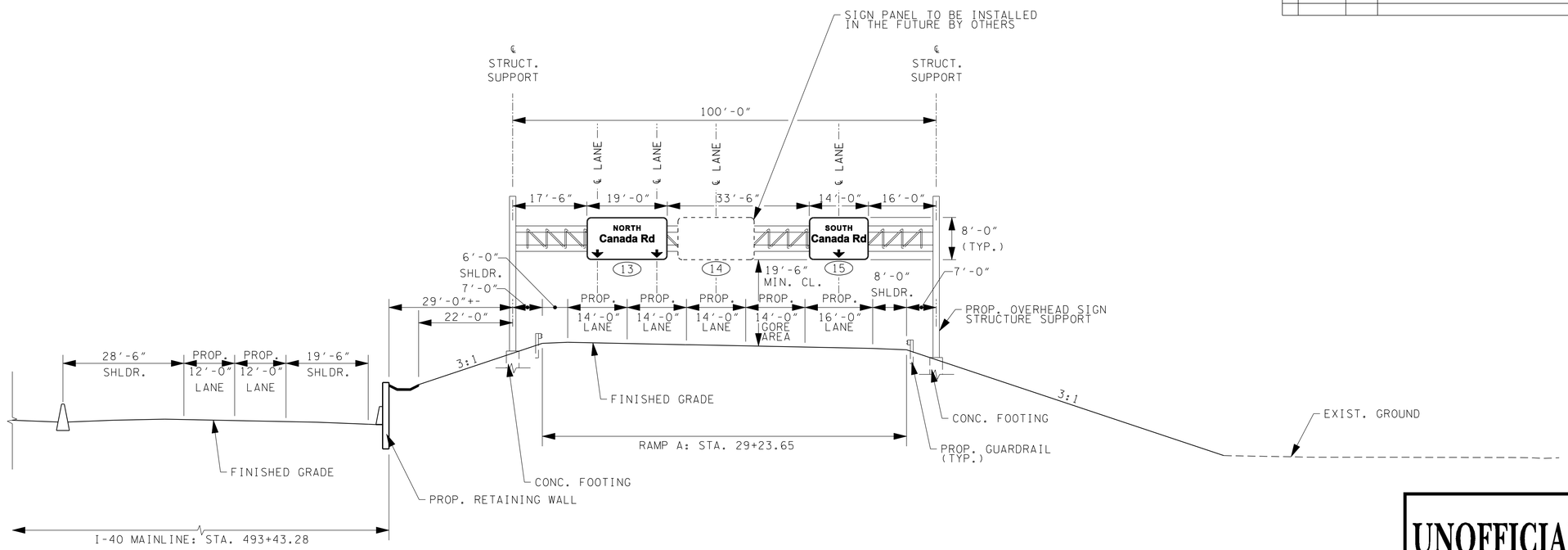
PROJECT NO.	YEAR	SHEET NO.
NH-I-40-1(283)20	2013	55

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN (13), (14), (15)

RAMP A: STA. 29+23.65 (LOOKING NORTHEAST)

DESIGN DATA

SIGN STRUCTURE DESIGN AREA = 576 sq.ft.
WIND VELOCITY = 90 M.P.H.
(SEE STANDARD BRIDGE DRAWING: STD-8-4)

SIGN STRUCTURE ID NUMBER
79SNM3951543

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHELBY CO.
SIGN NO. 13, 14, & 15

NOTES:

1. THE COST OF THE FOOTINGS IS TO BE INCLUDED IN BID ITEM FOR THIS SIGN STRUCTURE.
2. PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THIS SIGN STRUCTURE TO VERIFY SPAN LENGTH.
3. EACH SIGN FACE SHALL BE CENTERED OVER THE APPROPRIATE LANE AS DIRECTED, AND BOTTOM JUSTIFIED.
4. SIGN (13) SHALL BE ALIGNED WHERE AS EACH TYPE "H" ARROW IS CENTERED OVER THE APPROPRIATE LANE AS SHOWN.
5. OVERHEAD SIGN SHEETING SHALL BE TYPE III PRISMATIC OR BETTER.
6. PAY ITEM No. 713-09.01 FOR THIS SIGN STRUCTURE TO INCLUDE COST OF GEOTECHNICAL INVESTIGATION AND REINFORCED CONCRETE PIER FOUNDATIONS.

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

M-395-154

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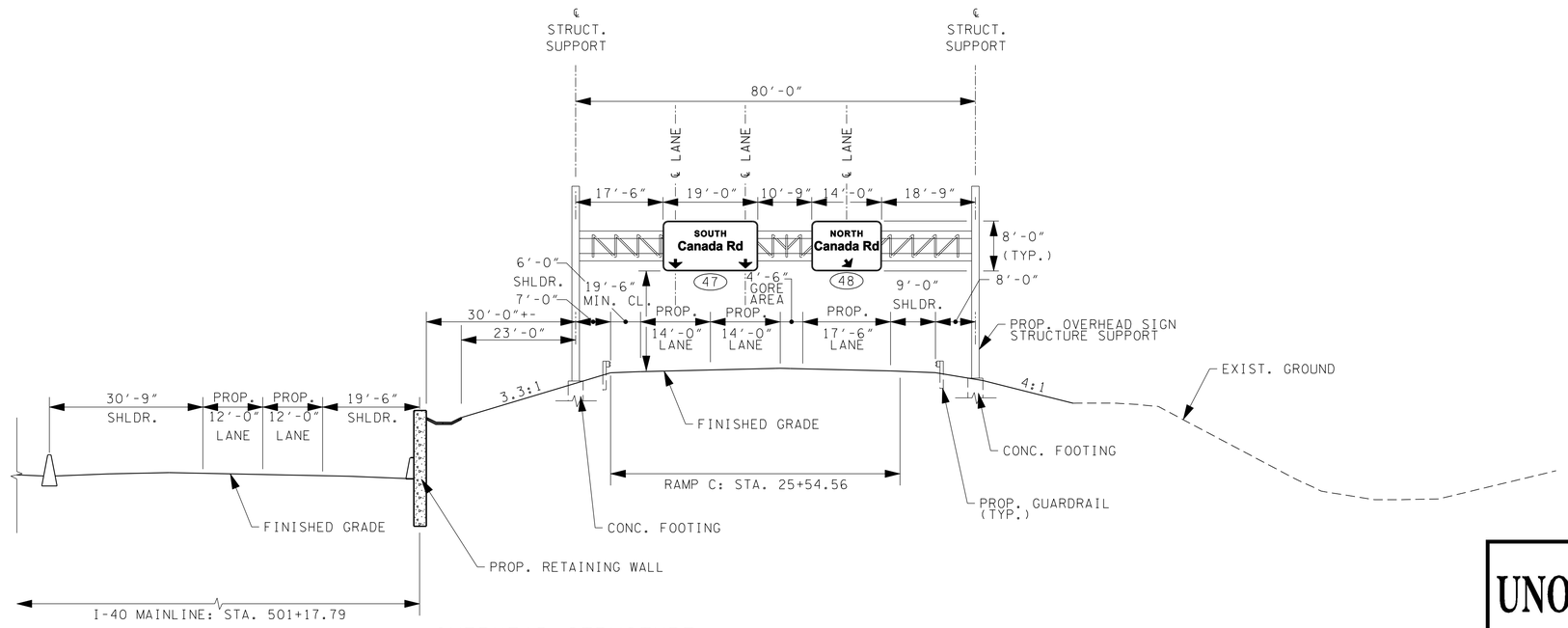
PROJECT NO.	YEAR	SHEET NO.
NH-I-40-1(283)20	2013	55A

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN 47 , 48

RAMP C: STA. 25+54.56 (LOOKING SOUTHWEST)

DESIGN DATA

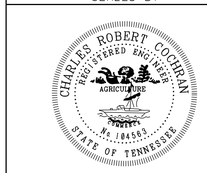
SIGN STRUCTURE DESIGN AREA = 400 sq.ft.
WIND VELOCITY = 90 M.P.H.
(SEE STANDARD BRIDGE DRAWING: STD-8-4)

SIGN STRUCTURE ID NUMBER
79SNM3951553

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SHELBY CO.
SIGN NO. 47 & 48

NOTES:

1. THE COST OF THE FOOTINGS IS TO BE INCLUDED IN BID ITEM FOR THIS SIGN STRUCTURE.
2. PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THIS SIGN STRUCTURE TO VERIFY SPAN LENGTH.
3. EACH SIGN FACE SHALL BE CENTERED OVER THE APPROPRIATE LANE AS DIRECTED, AND BOTTOM JUSTIFIED.
4. SIGN 47 SHALL BE ALIGNED WHERE AS EACH TYPE "H" ARROW IS CENTERED OVER THE APPROPRIATE LANE AS SHOWN.
5. OVERHEAD SIGN SHEETING SHALL BE TYPE III PRISMATIC OR BETTER.
6. PAY ITEM No. 713-09.02 FOR THIS SIGN STRUCTURE TO INCLUDE COST OF GEOTECHNICAL INVESTIGATION AND REINFORCED CONCRETE PIER FOUNDATIONS.

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

M-395-155

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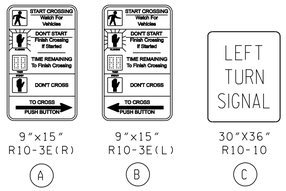
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56



SIGNS

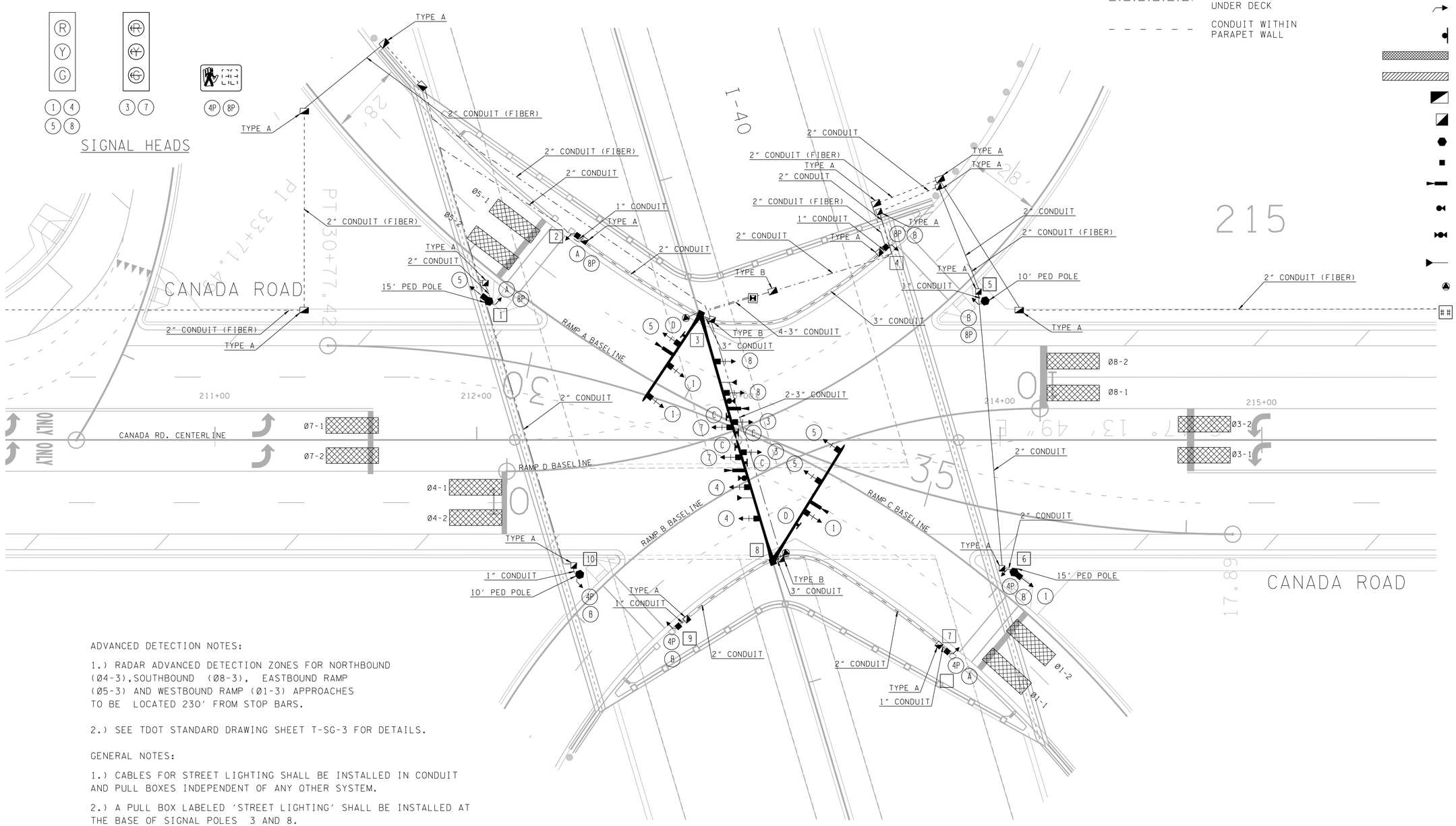
SIGNAL HEADS

SIGNAL SUPPORT POLE DATA

POLE NO.	STATION	OFFSET	GRD ELEV @ POLE	MTG HEIGHT	ARM LENGTH	FOOTING DEPTH	MAX MOMENT (ft lbs)
1	212+04.63	52.98L	425.40'			N/A	4,600
2	212+38.48	78.07L	425.22'			N/A	4,200
3	212+85.55	48.04L	426.07'	19' / 17.5'	50' / 40'	N/A	65,000
4	213+56.31	73.67L	425.47'			N/A	4,200
5	213+94.26	53.12L	425.62'			10'	4,200
6	214+11.06	50.35R	425.50'			10'	4,600
7	213+79.71	80.84R	425.18'			N/A	4,200
8	213+13.15	46.56R	426.12'	19' / 17.5'	50' / 52'	N/A	74,000
9	212+77.04	71.22R	425.57'			N/A	4,200
10	212+39.35	51.43R	425.76'			N/A	4,200

LEGEND

- JACK AND BORE CONDUIT
- CONDUIT
- CONDUIT ATTACHED TO BENT/ABUTMENT
- CONDUIT ATTACHED UNDER DECK
- CONDUIT WITHIN PARAPET WALL
- CONTROLLER CABINET
- STEEL MAST ARM POLE
- STEEL MAST ARM POLE BUILT IN WALL
- SIGNAL HEAD w/BACKPLATE
- SIGNAL HEAD
- PEDESTRIAN HEAD AND PUSH BUTTON
- MASTARM MOUNTED SIGN
- VIDEO DETECTION ZONE
- RADAR DETECTION ZONE
- FIBER OPTIC PULLBOX
- TRAFFIC SIGNAL PULLBOX
- PEDESTAL POLE
- PEDESTAL POLE BUILT IN WALL
- COMBINATION VIDEO AND RADAR DETECTION CAMERA
- SINGLE EMERGENCY VEHICLE PREEMPTION DETECTOR
- DUAL EMERGENCY VEHICLE PREEMPTION DETECTOR
- EMERGENCY VEHICLE PREEMPTION CONFIRMATION LAMP
- EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACON
- ## POLE NUMBER



ADVANCED DETECTION NOTES:

1.) RADAR ADVANCED DETECTION ZONES FOR NORTHBOUND (Ø4-3),SOUTHBOUND (Ø8-3), EASTBOUND RAMP (Ø5-3) AND WESTBOUND RAMP (Ø1-3) APPROACHES TO BE LOCATED 230' FROM STOP BARS.

2.) SEE TDOT STANDARD DRAWING SHEET T-SG-3 FOR DETAILS.

GENERAL NOTES:

1.) CABLES FOR STREET LIGHTING SHALL BE INSTALLED IN CONDUIT AND PULL BOXES INDEPENDENT OF ANY OTHER SYSTEM.

2.) A PULL BOX LABELED 'STREET LIGHTING' SHALL BE INSTALLED AT THE BASE OF SIGNAL POLES 3 AND 8.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

JAMES F. COLLINS REGISTERED ENGINEER XVI AGRICULTURE COMMERCE No. 021754 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

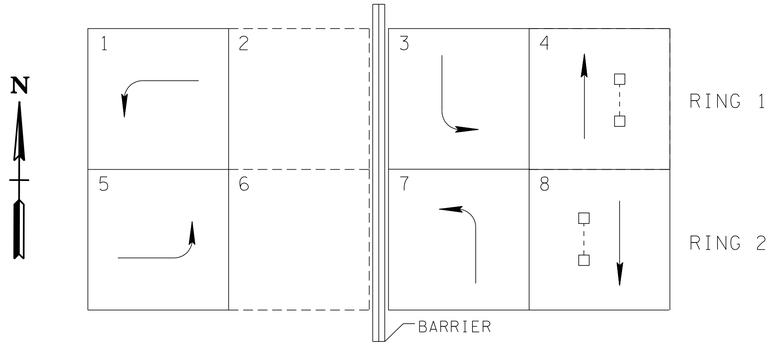
TRAFFIC SIGNAL LAYOUT

B.O.P. TO E.O.P.

SCALE: 1"=20'

Plotted by:Blaine.Lynch
K:\MEM_TPTO\115200000 - Canada Rd at I-40 TS Design\Cadd\Plans\1-SignalLayout-1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56A



NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE

PEDESTRIAN PHASE

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY.
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

BASIC OR SEMI - ACTUATED TIMING (SECS)

PHASE	INITIAL INTERVAL	VEHICLE INTERVAL	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)	LEFT TURN OPERATION (2)
					YELLOW	ALL RED	WALK	FLASHING DON'T WALK			
1	4	12	28	22	5	3	-	-	NONE	NL	PROT
3	4	10	17	26	4	2	-	-	NONE	NL	PROT
4	16	22	45	72	4	2	7	12	SOFT	NL	-
5	4	12	28	22	5	3	-	-	NONE	NL	PROT
7	4	10	17	42	4	2	-	-	NONE	NL	PROT
8	16	22	45	56	4	2	7	12	SOFT	NL	-

-THESE TIMINGS ARE INITIAL AND MAY BE ADUSTED BY THE ENGINEER BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION. ADDITIONAL TIMING PLANS MAY BE PROVIDED PRIOR TO END OF CONTRACT FOR IMPLEMENTATION BY THE CONTRACTOR.

-MAX II SETTINGS IN EFFECT FROM 6:00 AM TO 9:00 AM, AND MAX I SETTINGS IN EFFECT FOR ALL OTHER TIMES.

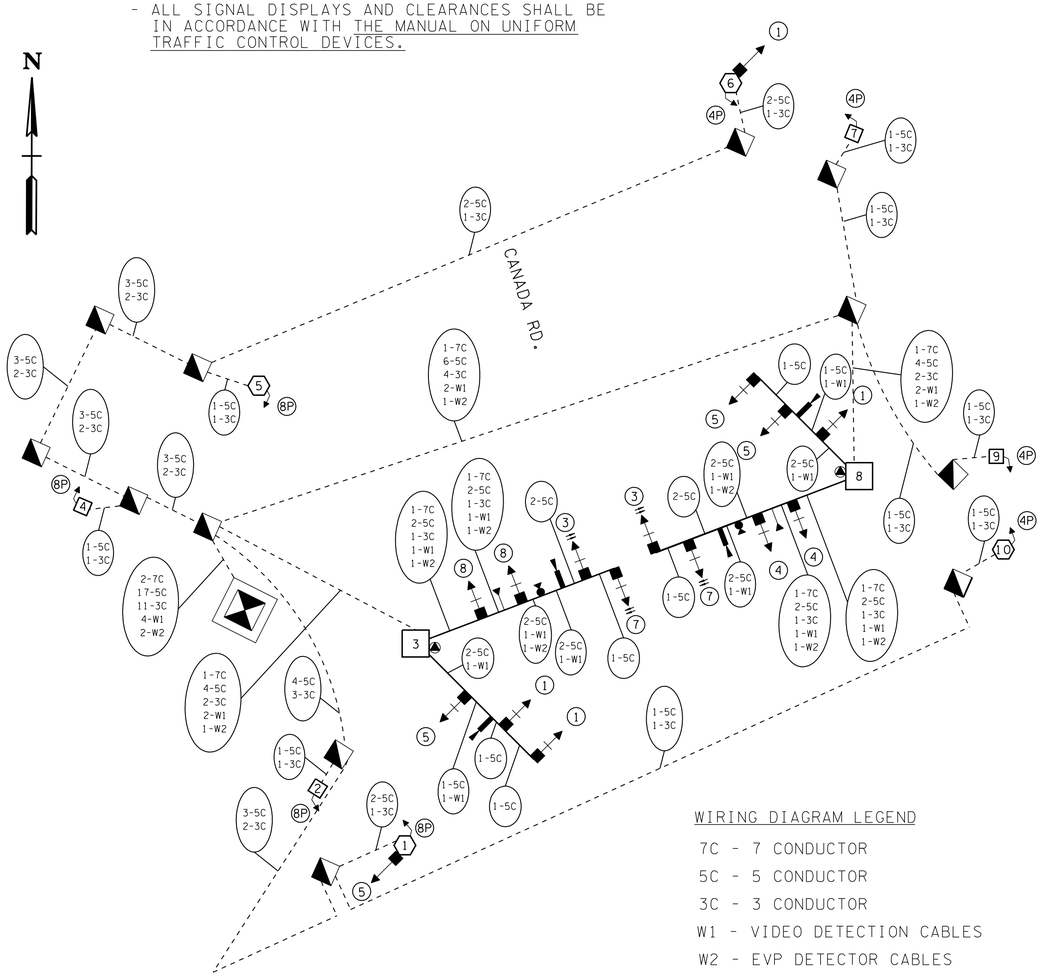
(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P-P = PROT/PERM

DETECTION ZONE AND ASSIGNMENTS

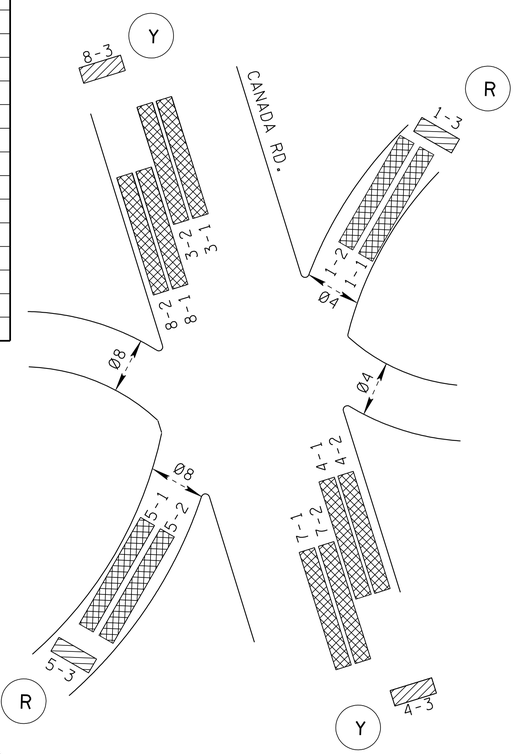
ZONE #	ZONE LENGTH	MODE	FEATURE TIMING (SEC.)	ASSOC. PHASE
1-1	50′	PRES.		1
1-2	50′	PRES.		1
1-3*	6′	PULSE		1
3-1	50′	PRES.		3
3-2	50′	PRES.		3
4-1	50′	PRES.		4
4-2	50′	PRES.		4
4-3*	6′	PULSE		4
5-1	50′	PRES.		5
5-2	50′	PRES.		5
5-3*	6′	PULSE		5
7-1	50′	PRES.		7
7-2	50′	PRES.		7
8-1	50′	PRES.		8
8-2	50′	PRES.		8
8-3*	6′	PULSE		8

*ZONES 1-3, 4-3, 5-3 AND 8-3 ARE FOR ADVANCED DETECTION ZONES. ALL ADVANCED DETECTION ZONES ARE RADAR.



WIRING DIAGRAM LEGEND

7C - 7 CONDUCTOR
5C - 5 CONDUCTOR
3C - 3 CONDUCTOR
W1 - VIDEO DETECTION CABLES
W2 - EVP DETECTOR CABLES



INTERSECTION OF CANADA RD. WITH I-40

FLASHING OPERATION (Y) OR (R)

PEDESTRIAN MOVEMENTS (◄- - - -►) AND ASSOCIATED PHASE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

JAMES F. COLLINS
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
No. 021754
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

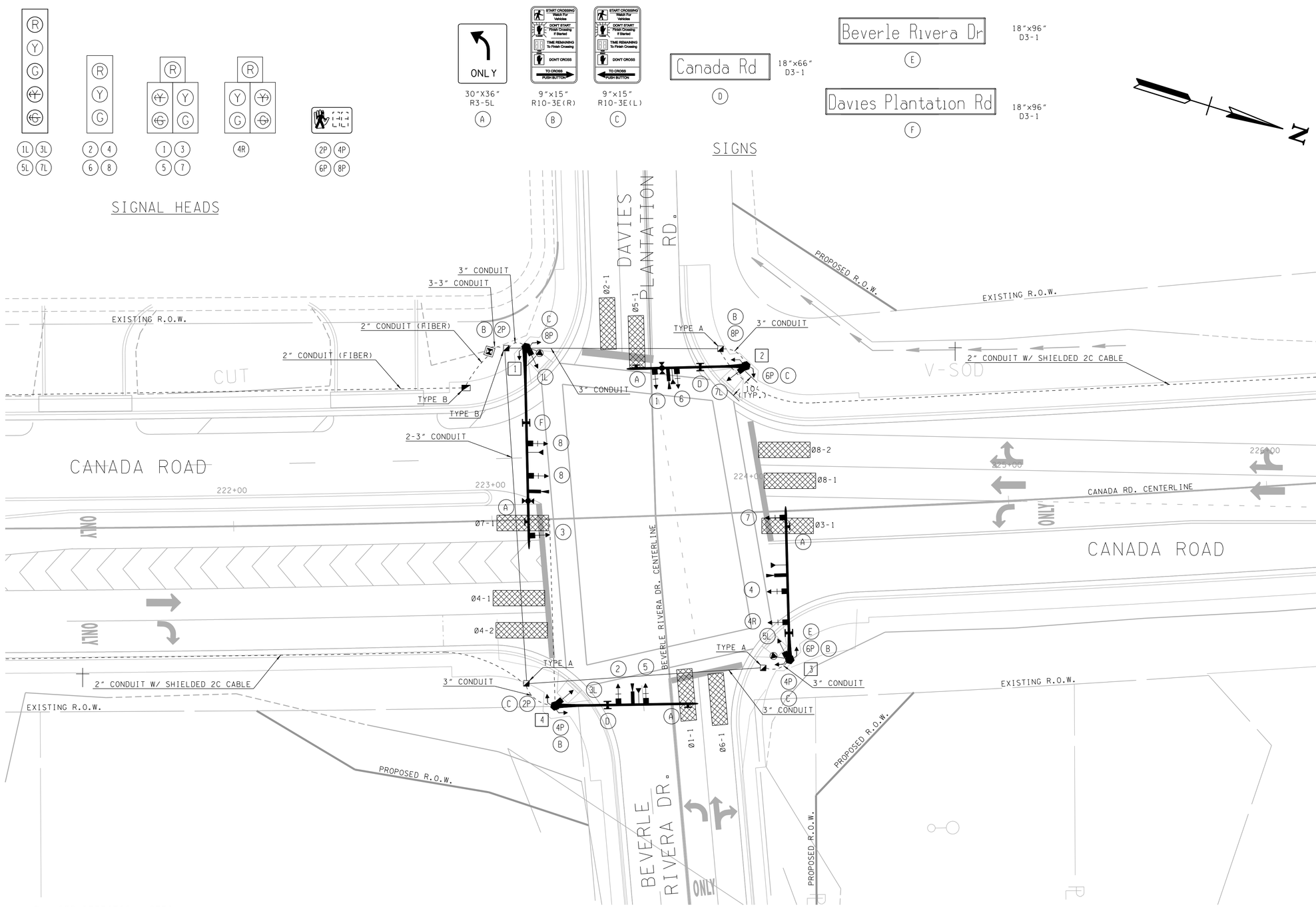
TRAFFIC SIGNAL DETAILS

B.O.P. TO E.O.P.

SCALE: N.T.S.

Plotted by: BlaineLynch
k:\mem_tpto\115200000 - canada rd at i-40 ts design\cadd\plans\2-SignalDetails-1-Updated.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56B



LEGEND

- CONTROLLER CABINET
- STEEL MAST ARM POLE
- STEEL MAST ARM POLE BUILT IN WALL
- SIGNAL HEAD w/BACKPLATE
- SIGNAL HEAD
- PEDESTRIAN HEAD AND PUSH BUTTON
- MASTARM MOUNTED SIGN
- VIDEO DETECTION ZONE
- FIBER OPTIC PULLBOX
- TRAFFIC SIGNAL PULLBOX
- JACK AND BORE CONDUIT
- CONDUIT
- CONDUIT IN BRIDGE DECK
- PEDESTAL POLE
- PEDESTAL POLE BUILT IN WALL
- VIDEO DETECTION CAMERA
- SINGLE EMERGENCY VEHICLE PREEMPTION DETECTOR
- DUAL EMERGENCY VEHICLE PREEMPTION DETECTOR
- EMERGENCY VEHICLE PREEMPTION CONFIRMATION LAMP
- EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACON
- POLE NUMBER

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

JAMES F. COLLINS
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AGRICULTURE
COMMERCE
No. 021794
STATE OF TENNESSEE

ADVANCED DETECTION NOTES:

1.) INSTALL NEW ADVANCED DETECTION LOOPS FOR NORTHBOUND (Ø4-3) AND SOUTHBOUND (Ø8-3) APPROACHES 230' FROM STOP BARS. ADVANCED DETECTION LOOPS TO BE SAW CUT.

2.) SEE TDOT STANDARD DRAWING SHEET T-SG-3 FOR DETAILS.

GENERAL NOTES:

1.) CABLES FOR STREET LIGHTING SHALL BE INSTALLED IN CONDUIT AND PULL BOXES INDEPENDENT OF ANY OTHER SYSTEM.

2.) A PULL BOX LABELED 'STREET LIGHTING' SHALL BE INSTALLED AT THE BASE OF SIGNAL POLES 1 AND 3.

SIGNAL SUPPORT POLE DATA

POLE NO.	STATION	OFFSET	GRD ELEV @ POLE	MTG HEIGHT	ARM LENGTH	FOOTING DEPTH	MAX MOMENT (ft lbs)
1	223+15.48	66.63L	406.06'	20.00'	78'	16'	131,000
2	224+00.38	56.67L	405.82'	17.00'	46'	15'	63,000
3	224+12.90	57.48R	405.78'	20.00'	60'	15'	90,000
4	223+22.27	72.28R	405.92'	17.00'	56'	15'	68,000

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL LAYOUT

B.O.P. TO E.O.P.

SCALE: 1"=20'

Plotted by:Blaine.Lynch
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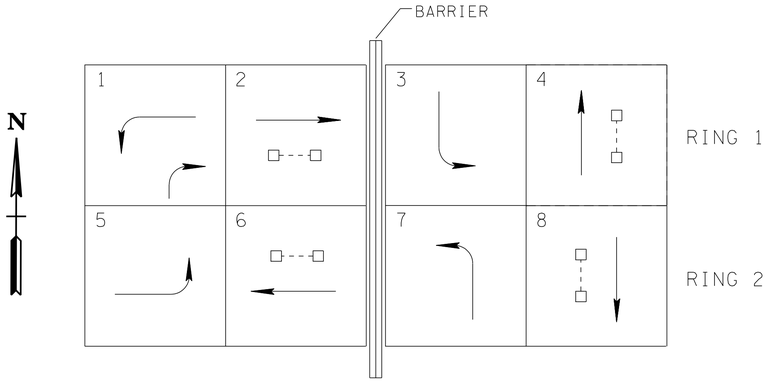
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56C



NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE

PEDESTRIAN PHASE

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY.
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

BASIC OR SEMI - ACTUATED TIMING (SECS)

PHASE	INITIAL INTERVAL	VEHICLE INTERVAL	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)	LEFT TURN OPERATION (2)
					YELLOW	ALL RED	WALK	FLASHING DON'T WALK			
1	4	8	19	28	3	1	-	-	NONE	NL	P-P
2	8	14	18	22	4	2	7	36	NONE	NL	PERM
3	4	10	12	12	3	1	-	-	NONE	NL	P-P
4	8	14	41	58	4	2	7	22	SOFT	NL	PERM
5	4	8	12	12	3	1	-	-	NONE	NL	P-P
6	8	14	25	38	4	2	7	36	NONE	NL	PERM
7	4	10	12	12	3	1	-	-	NONE	NL	P-P
8	8	14	41	58	4	2	7	22	SOFT	NL	PERM

(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P-P = PROT/PERM

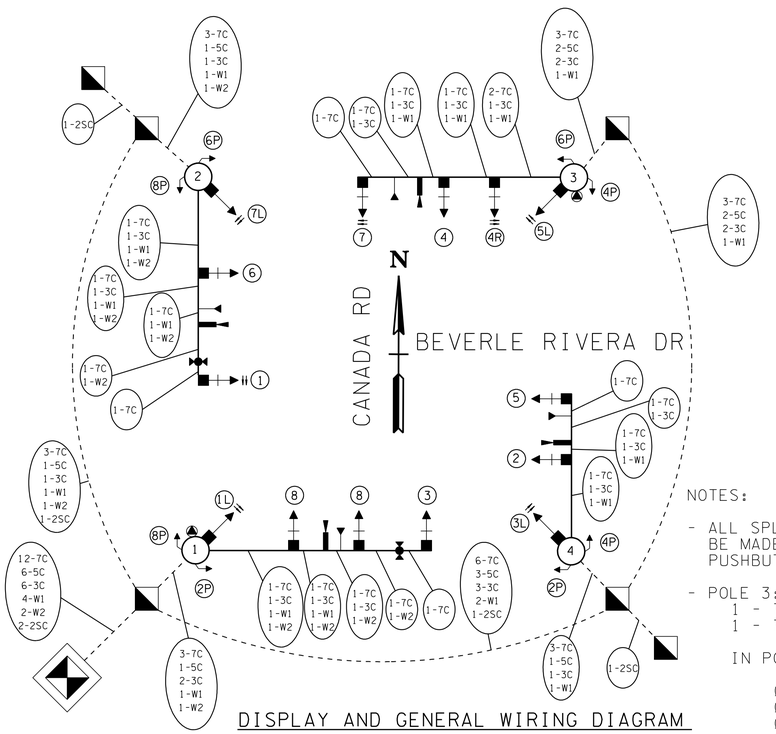
-THESE TIMINGS ARE INITIAL AND MAY BE ADUSTED BY THE ENGINEER BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION. ADDITIONAL TIMING PLANS MAY BE PROVIDED PRIOR TO END OF CONTRACT FOR IMPLEMENTATION BY THE CONTRACTOR.

-MAX II SETTINGS IN EFFECT FROM 6:00 AM TO 9:00 AM, AND MAX I SETTINGS IN EFFECT FOR ALL OTHER TIMES.

DETECTION ZONE AND ASSIGNMENTS

ZONE #	ZONE LENGTH	MODE	FEATURE TIMING (SEC.)	ASSOC. PHASE
1-1	50'	PRES.		1
2-1	50'	PRES.		2
3-1	50'	PRES.		3
4-1	50'	PRES.		4
4-2	50'	PRES.	5 SECOND DELAY	4
4-3*	6'	PULSE		4
5-1	50'	PRES.		5
6-1	50'	PRES.		6
7-1	50'	PRES.		7
8-1	50'	PRES.		8
8-2	50'	PRES.		8
8-3*	6'	PULSE		8

*ZONES 4-3 AND 8-3 ARE FOR ADVANCED DETECTION LOOPS ON CANADA RD. ALL ADVANCED DETECTION LOOPS ARE SAW CUT.



DISPLAY AND GENERAL WIRING DIAGRAM

WIRING DIAGRAM LEGEND

7C - 7 CONDUCTOR
5C - 5 CONDUCTOR
3C - 3 CONDUCTOR
W1 - VIDEO DETECTION CABLES
W2 - EVP DETECTOR CABLES
2SC - SHIELDED DETECTOR CABLE

NOTES:

- ALL SPLICES AND TERMINATIONS OF CABLES SHALL BE MADE IN THE POLE BASES, SIGNAL HEADS AND PUSHBUTTONS.
- POLE 3:
  1 - 7C CABLE FOR Ø4 & Ø7
  1 - 7C CABLE FOR Ø4R

IN POLE BASE, SPLICE THE FOLLOWING CABLES TOGETHER INTO 1 - 7C CABLE

Ø4 &Ø7 (RED) AND Ø4R (RED)	TO RED CABLE
Ø4 &Ø7 (ORANGE) AND Ø4R (ORANGE)	TO ORANGE CABLE
Ø4 &Ø7 (GREEN) AND Ø4R (GREEN)	TO GREEN CABLE
Ø4 &Ø7 (BLUE)	TO BLUE CABLE
Ø4 &Ø7 (BLACK)	TO BLACK CABLE
Ø4 &Ø7 (WHITE/BLACK)	TO WHITE/BLACK CABLE
Ø4 &Ø7 (WHITE)	TO WHITE CABLE

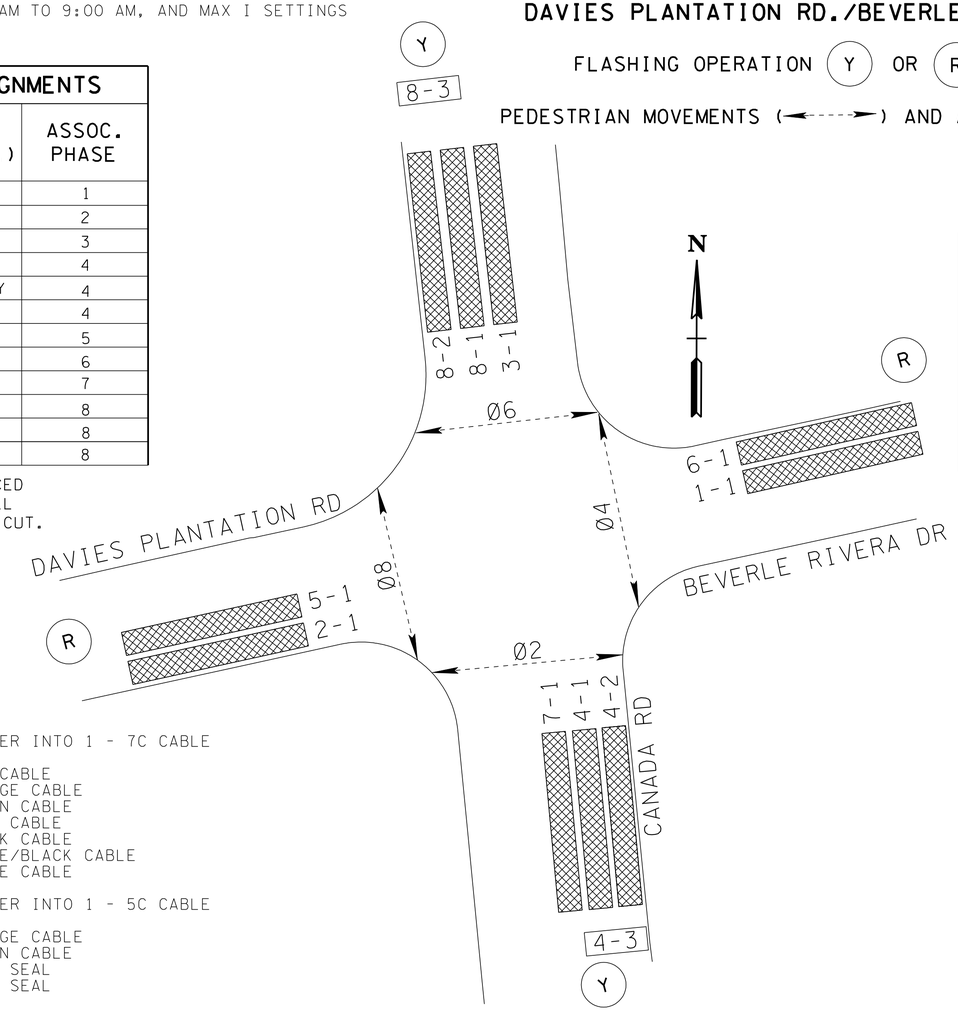
IN POLE BASE, SPLICE THE FOLLOWING CABLES TOGETHER INTO 1 - 5C CABLE

Ø4R (BLUE)	TO ORANGE CABLE
Ø4R (BLACK)	TO GREEN CABLE
Ø4R (WHITE/BLACK)	CAP AND SEAL
Ø4R (WHITE)	CAP AND SEAL

INTERSECTION OF CANADA RD. WITH DAVIES PLANTATION RD./BEVERLE RIVERA DR.

FLASHING OPERATION (Y) OR (R)

PEDESTRIAN MOVEMENTS (<----->) AND ASSOCIATED PHASE



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL DETAILS

B.O.P. TO E.O.P.

SCALE: N.T.S.

Plotted by:Blaine.Lynch
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56D

NOTE:
CONTRACTOR TO COIL 50' OF FIBER OPTIC CABLE IN EACH PULLBOX

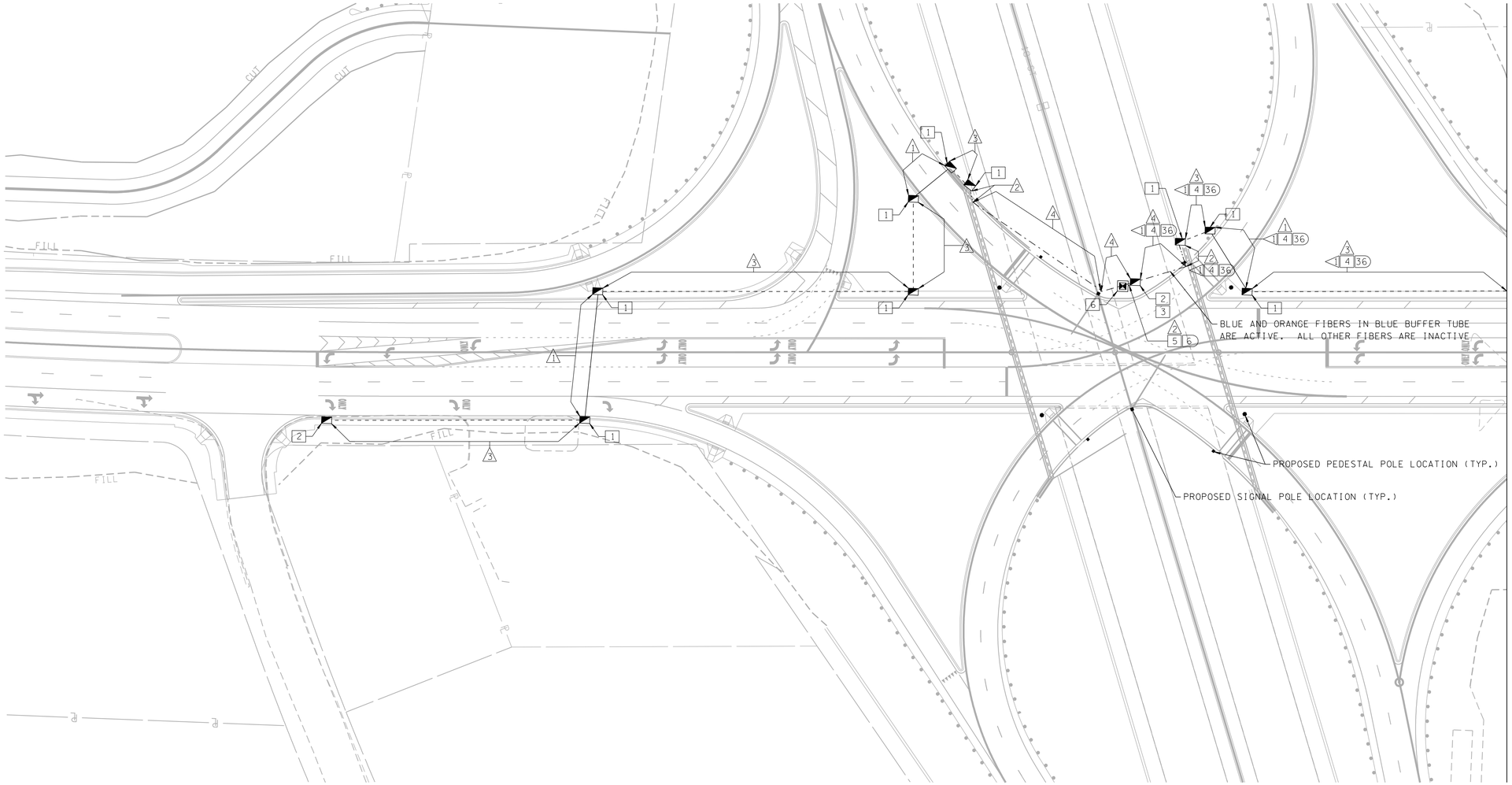
LEGEND

- PROPOSED SPLICE ENCLOSURE
- FUTURE SPLICE ENCLOSURE
- JACK AND BORE CONDUIT
- CONDUIT
- CONDUIT ATTACHED TO BENT/ABUTMENT
- CONDUIT ATTACHED TO UNDER DECK
- BASE MOUNTED CABINET
- STEEL MAST ARM POLE
- STEEL MAST ARM POLE BUILT IN WALL
- FIBER OPTIC PULLBOX

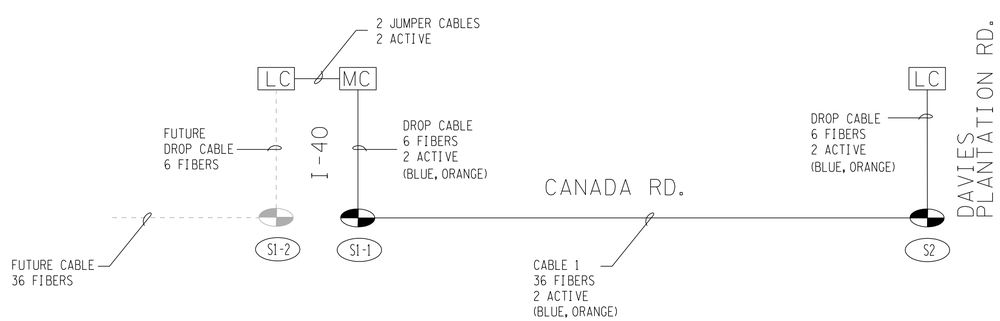
1. FIBER OPTIC PULLBOX TYPE A
2. FIBER OPTIC PULLBOX TYPE B
3. WEATHERPROOF SPLICE ENCLOSURE
4. SMFO CABLE
5. DROP CABLE
6. INSTALL MASTER CONTROLLER

1. JACK AND BORE 2" CONDUIT
2. 2" CONDUIT ATTACHED TO BENT/ABUTMENT
3. 2" CONDUIT
4. 2" CONDUIT ATTACHED UNDER DECK

X NUMBER OF CABLES
XX NUMBER OF FIBERS



COMMUNICATION CABLE SCHEMATIC



UNOFFICIAL SET

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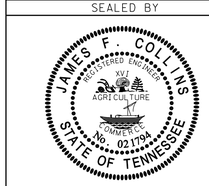
SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE LAYOUT

B.O.P. TO E.O.P.

SCALE: 1"=50'

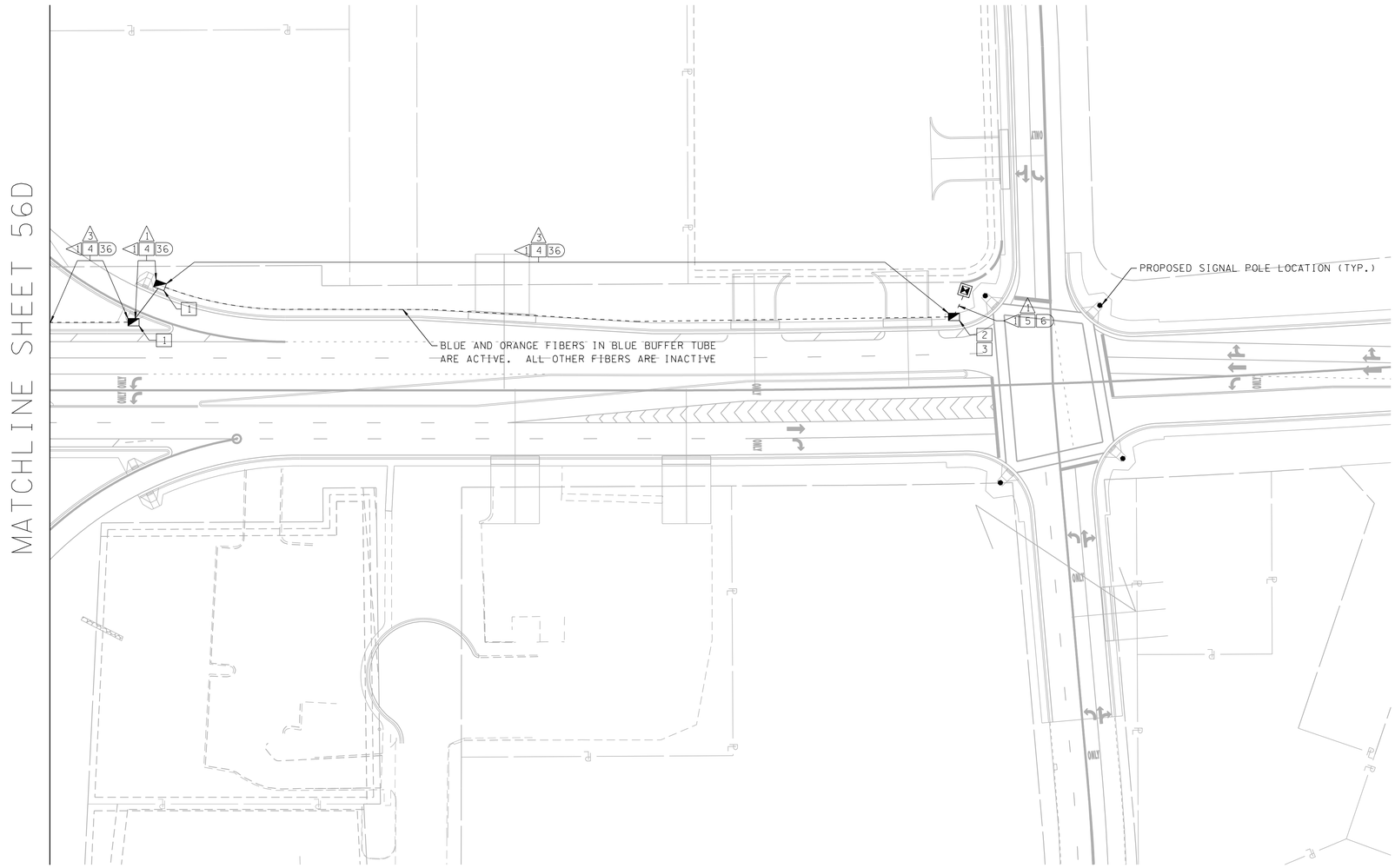
Plotted by:Blaine.Lynch
k:\mem_tpto\115200000 - canada rd at i-40 ts design\cadd\plans\5-CableLayout-1.sht

NOTE:
CONTRACTOR TO COIL 50' OF FIBER OPTIC CABLE IN EACH PULLBOX

BASE MOUNTED CABINET
STEEL MAST ARM POLE
STEEL MAST ARM POLE BUILT IN WALL
FIBER OPTIC PULLBOX
CONDUIT
JACK AND BORE CONDUIT
CONDUIT IN BRIDGE DECK

1 FIBER OPTIC PULLBOX TYPE A
2 FIBER OPTIC PULLBOX TYPE B
3 WEATHERPROOF SPLICE ENCLOSURE
4 SMFO CABLE
5 DROP CABLE
6 INSTALL MASTER CONTROLLER
△1 JACK AND BORE 2" CONDUIT
△2 2" CONDUIT IN BRIDGE DECK
△3 2" CONDUIT
◁ NUMBER OF CABLES
(XX) NUMBER OF FIBERS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56E



N

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
JAMES F. COLLINS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 02 17754
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

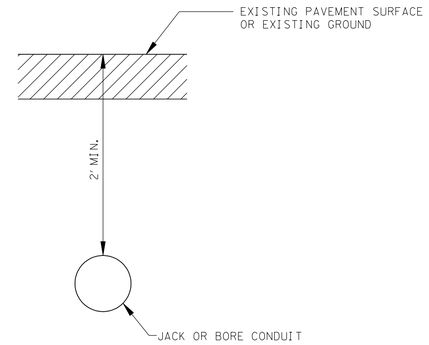
FIBER OPTIC CABLE LAYOUT
B.O.P. TO E.O.P.
SCALE: 1"=50'

Plotted by:Blaine.Lynch
k:\mem_tpto\11520000 - canada rd at i-40 ts design\cadd\plans\6-CableLayout-2.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56F

SIGN NO	LEGEND	SHEET NO	SIZE		COPY		SIGN FACE			REMARKS
			LENGTH	HEIGHT	CAPITAL	LOWER CASE	COPY	BACKGROUND	MATERIAL	
D	Canada Rd D3-1 (MOD)	56 / 56B	66"	18"	8" / 6"	6" / 4"	WHITE (REF.)	GREEN (REF.)	0.100 SHEET ALUMINUM	ITEM NO 713-15.40 FOR SUSPENDED SIGNS USE "D" SPACING OR REDUCE SIZE TO FIT.
E	Beverle Rivera Dr D3-1 (MOD)	56B	96"	18"	8" / 6"	6" / 4"	WHITE (REF.)	GREEN (REF.)	0.100 SHEET ALUMINUM	
F	Davies Plantation Rd D3-1 (MOD)	56B	96"	18"	8" / 6"	6" / 4"	WHITE (REF.)	GREEN (REF.)	0.100 SHEET ALUMINUM	

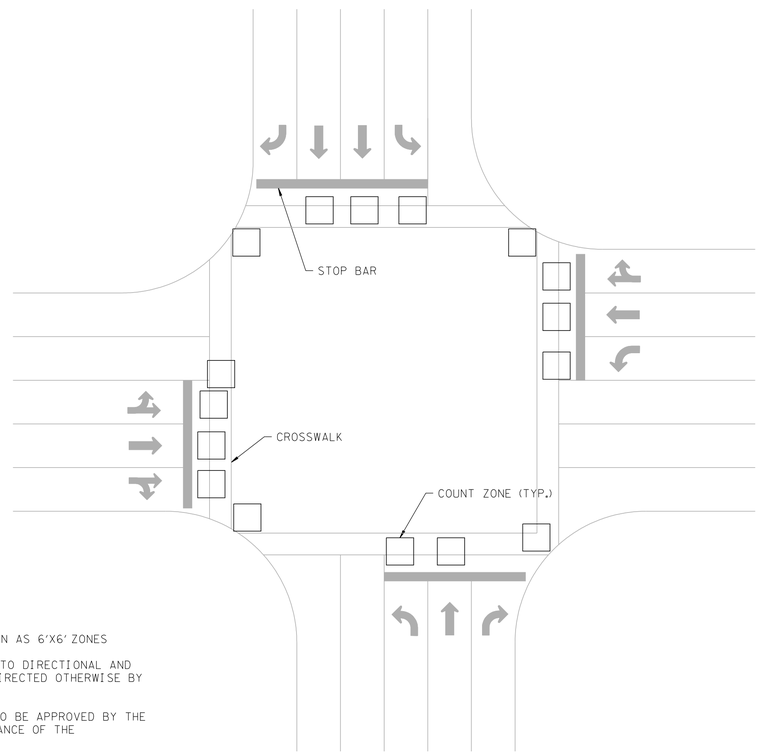
SIGNAL SIGN DETAIL



NOTE:
1. CONTRACTOR SHALL SET DEPTH TO AVOID EXISTING UTILITIES (MINIMUM OF 2' DEPTH)

DETAIL OF JACKED OR BORED CONDUIT

N.T.S.



SPECIAL NOTES:

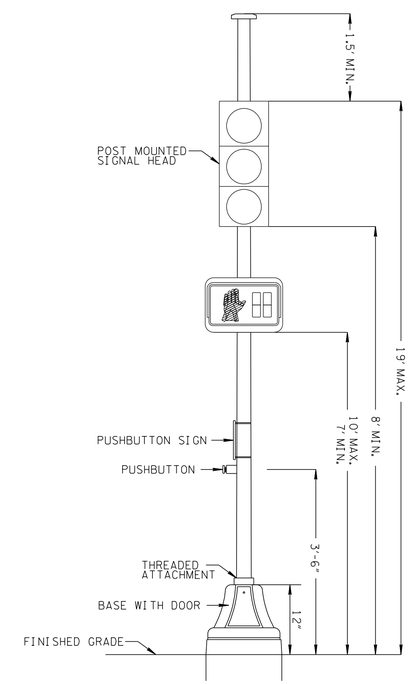
1. ALL COUNT ZONES TO BE DRAWN AS 6'X6' ZONES

2. ALL COUNT ZONES TO BE SET TO DIRECTIONAL AND TO COUNT ALL THE TIME UNLESS DIRECTED OTHERWISE BY THE ENGINEER

3. ALL COUNT ZONE LOCATIONS TO BE APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE INTERSECTION

4. COUNT ZONES TO BE NUMBERED SEQUENTIALLY AFTER THE DETECTION ZONES ACCORDING TO THE PHASE ASSIGNMENT AT THE INTERSECTION.

COUNT ZONE DETAIL



PEDESTAL POLE

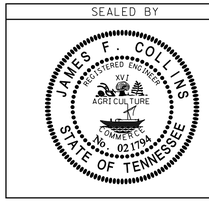
• IF PEDESTRIAN DISPLAYS ARE PROVIDED ON SAME POLE, THE MINIMUM HEIGHT OF THE VEHICULAR DISPLAY SHALL BE AT LEAST ONE FOOT ABOVE THE TOP OF THE PEDESTRIAN DISPLAY, HOUSING AND BRACKETS.

ALL POLES TO BE SMOOTH, ROUND AND PAINTED DARK GREEN.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAILS

B.O.P. TO E.O.P.

SCALE: N.T.S.

Plotted by:Blaine.Lynch
k:\mem_tpto\11520000 - canada rd at i-40 ts design\cadd\plans\7-DetailSheet-3.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1 (283) 20	56G

SPECIAL NOTES

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

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHOW ANY VARIATIONS IN THE SHOP DRAWINGS.

3. THE POLE DESIGN, BASED UPON GROUNDLINE MOMENTS, SHALL BE CAPABLE OF SUPPORTING NOT LESS THAN 2.0 TIMES THE DESIGN HORIZONTAL AND VERTICAL LOADS BOTH INDIVIDUALLY AND COMBINED. STRESSES DUE TO THE MOMENT SHALL BE CALCULATED BASED ON THE DIMENSIONS VERIFIED IN THE FIELD.

4. ALL WEATHERING ENTRIES SHALL BE AS DIRECTED BY TDOT.

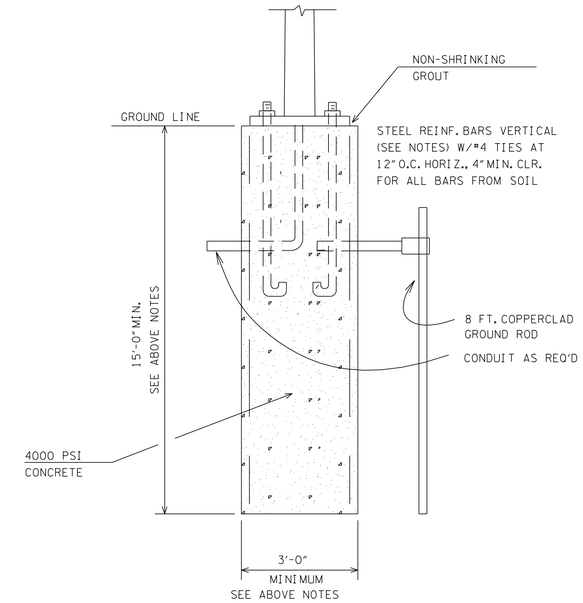
5. FACTORY CERTIFICATION IN ORDER TO ENSURE PROPER PROCEDURES ARE FOLLOWED IN THE MANUFACTURING OF ALL STRUCTURAL MEMBERS. THE FABRICATION OF THE SIGNAL POLE ASSEMBLY SHALL BE DONE IN A PLANT CERTIFIED TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) CATEGORY 1. THIS CERTIFICATION MUST BE PRESENTED PRIOR TO THE BID DATE.

6. THE CONTRACTOR SHALL PREPARE AND SUBMIT POLE, MAST ARM, FOUNDATION REINFORCING BAR, AND ANCHOR BOLT DESIGN CALCULATIONS, TO TDOT FOR APPROVAL PREPARED BY AND SEALED BY A TENNESSEE PROFESSIONAL ENGINEER. THIS DATA SHALL BE REVIEWED AND APPROVED BY TDOT PRIOR TO FABRICAITION OF THE POLES.

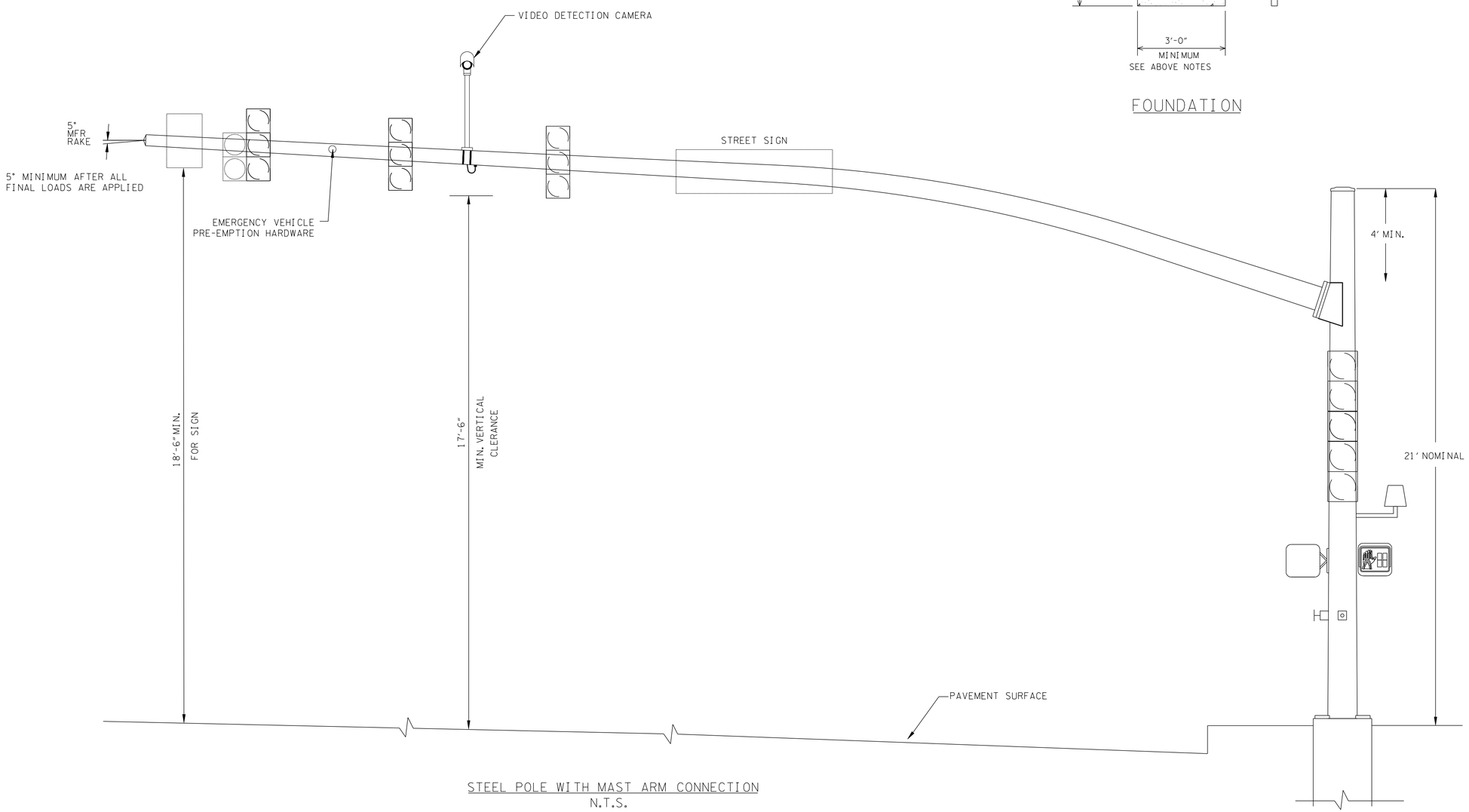
7. MAST ARM POLE FOUNDATIONS SHALL CONFORM TO TDOT STANDARD DRAWING T-SG-10.

8. AFTER INSTALLATION AND ALL FINAL LOADING, ANY MAST ARM AND/OR POLE THAT EXHIBITS LESS THAN THE REQUIRED POLE RAKE OR THE REQUIRED MAST ARM ANGLE OF INSTALLATION SHALL BE REPLACED AT NO COST TO THE OWNER.

9. ALL POLES TO BE SMOOTH, ROUND AND PAINTED DARK GREEN.



FOUNDATION

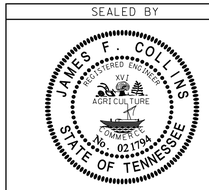


STEEL POLE WITH MAST ARM CONNECTION
N.T.S.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



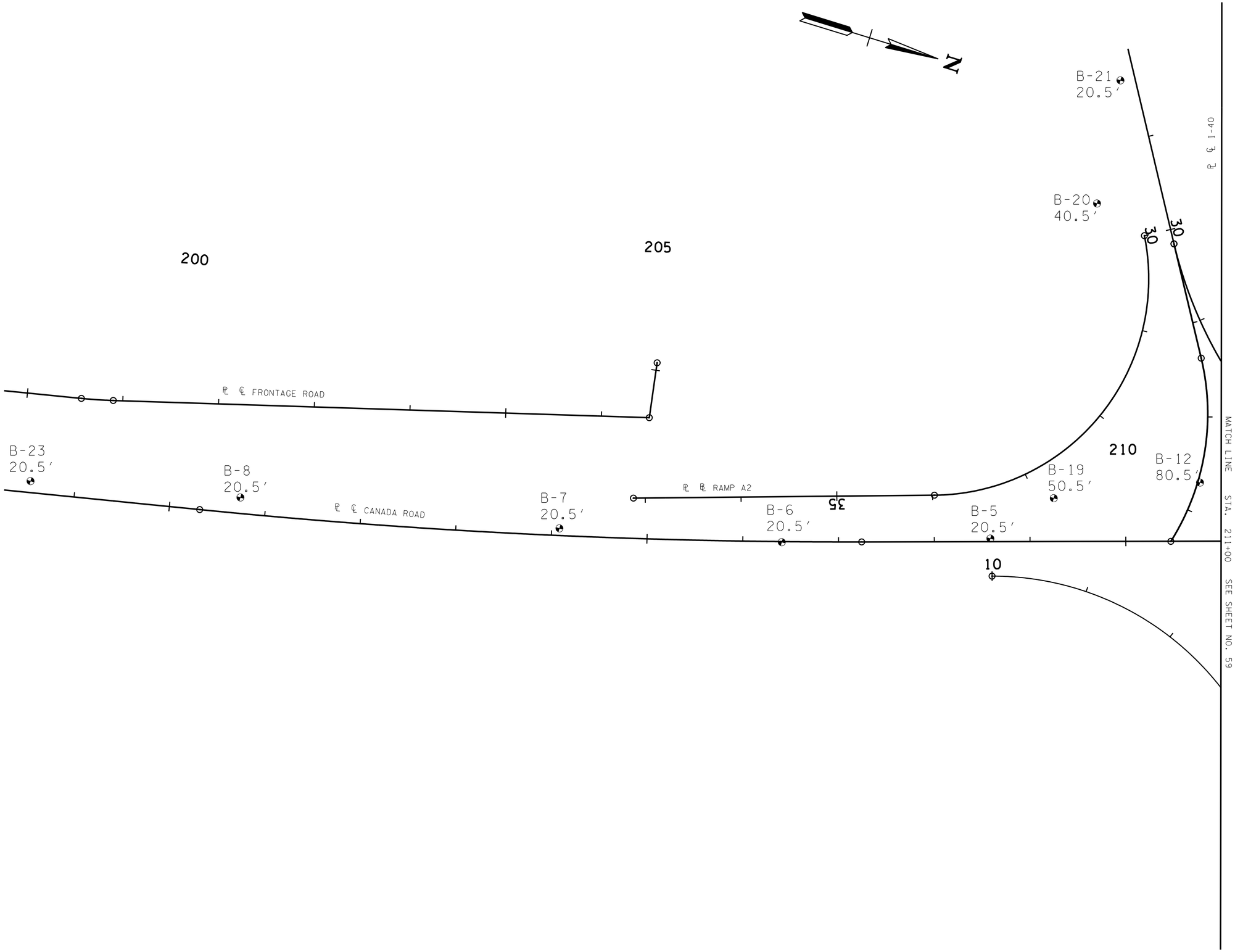
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MAST ARM DETAIL
B.O.P. TO E.O.P.
SCALE: N.T.S.

Plotted by: BlaineLynch
x:\mem_tpto\li5200000 - canada rd at i-40 ts design\cadd\plans\8-DetailSheet-4.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	58

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

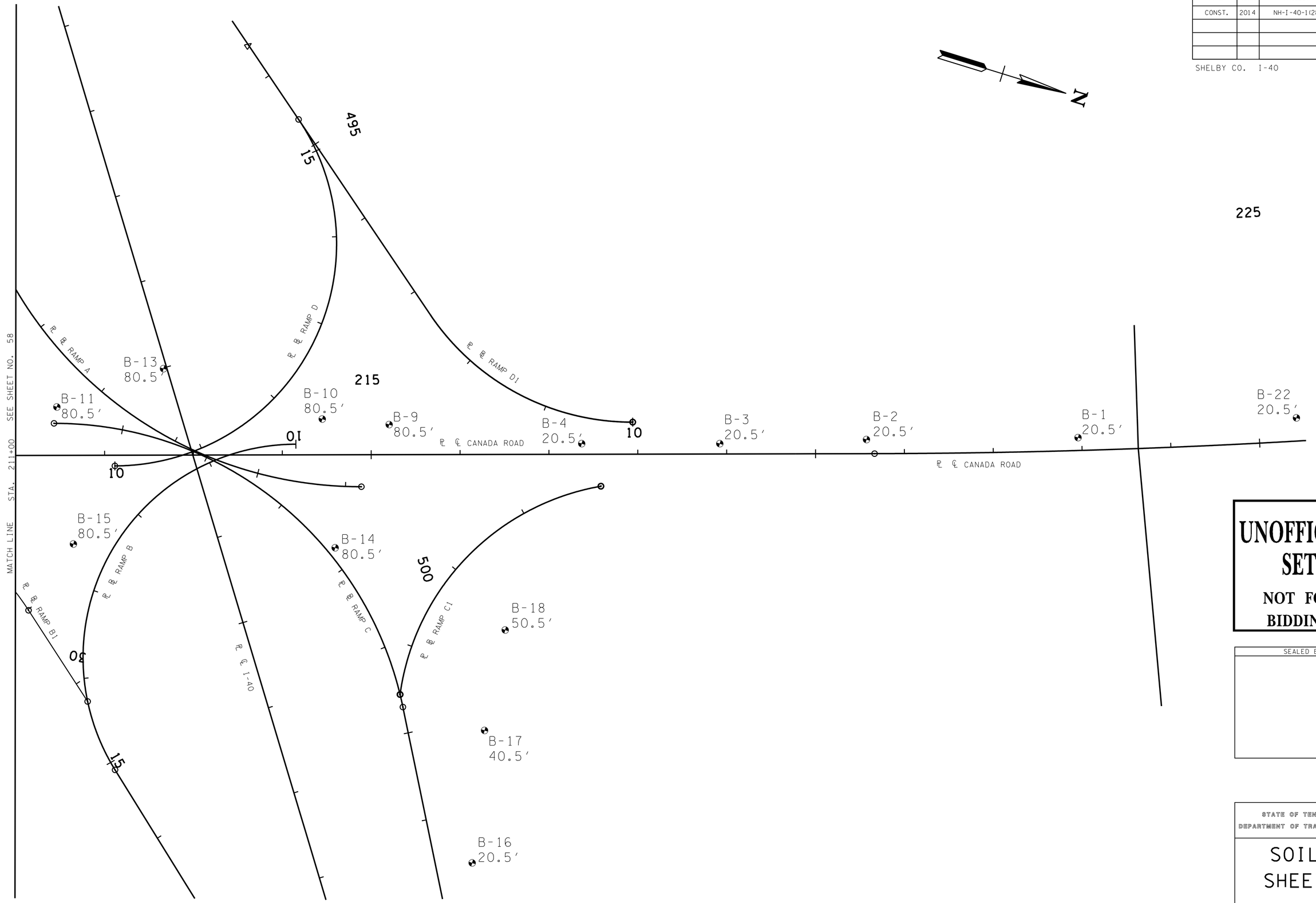
SOILS SHEETS

SCALE: 1"=50'

3/5/2014 1:48:39 PM
k:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\058 SoilSheets Plan 01.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	59

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SHEETS

SCALE: 1"=50'

3/5/2014 1:49:35 PM
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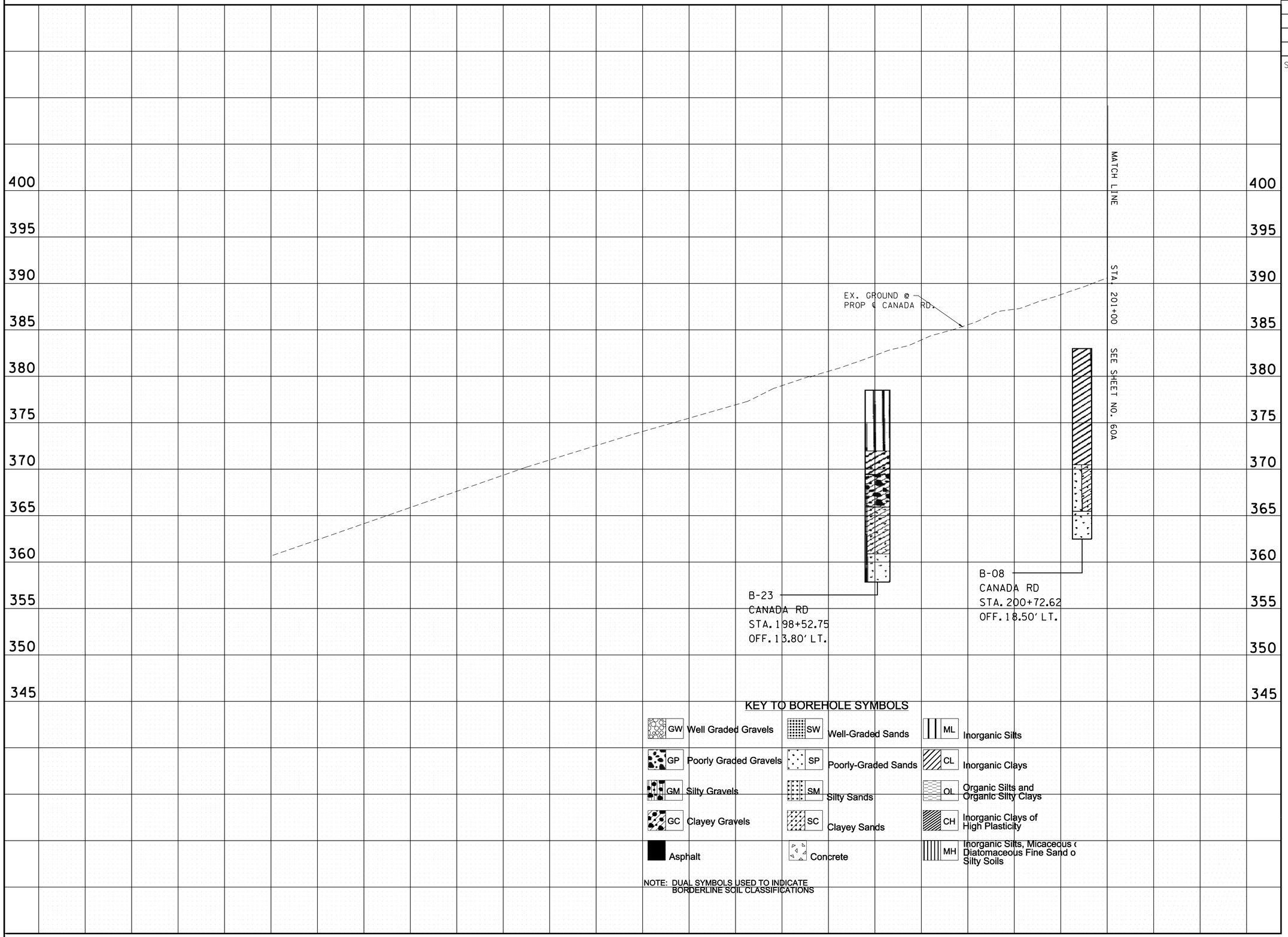
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	60

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SHEETS PROFILE CANADA ROAD

B.O.P. STA. TO 201+00

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

3/5/2014 4:35:4 PM
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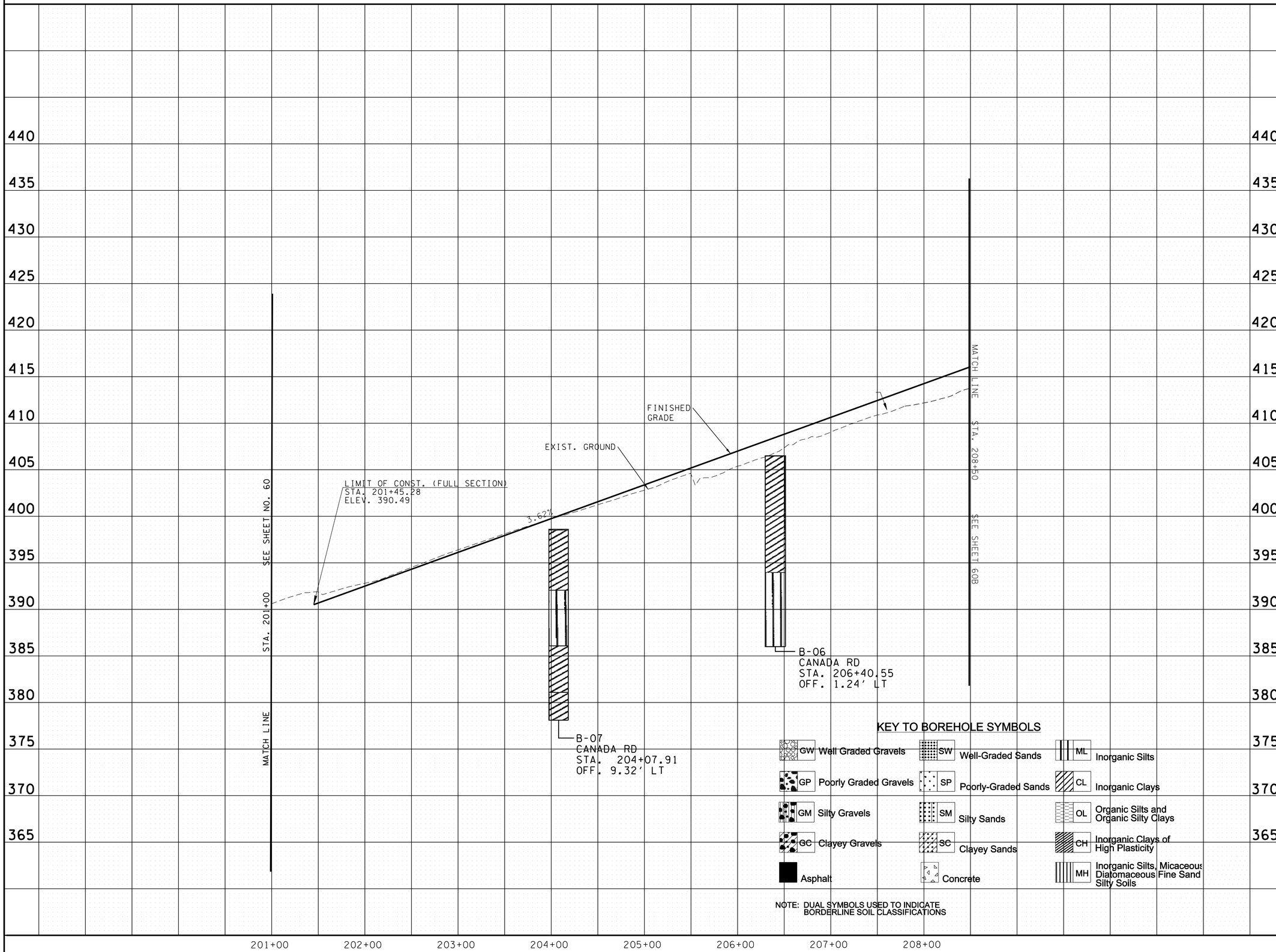
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	60A

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SHEETS PROFILE CANADA ROAD

STA. 201+00 TO STA. 208+50

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

3/5/2014 1:37:01PM
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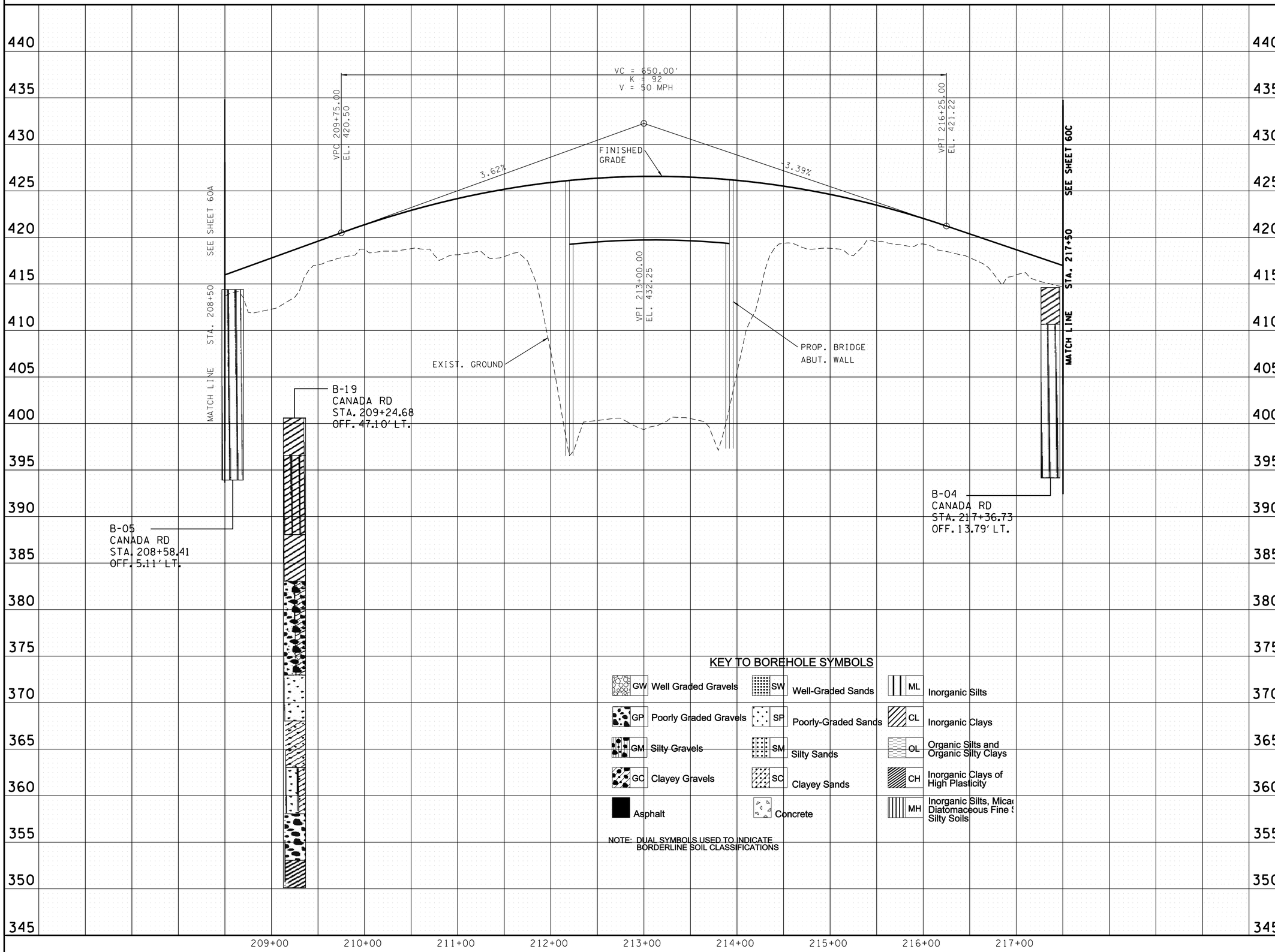
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	60B

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SHEETS PROFILE CANADA ROAD

STA. 208+50 TO STA. 217+50

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

3/5/2014 1:39:31 PM
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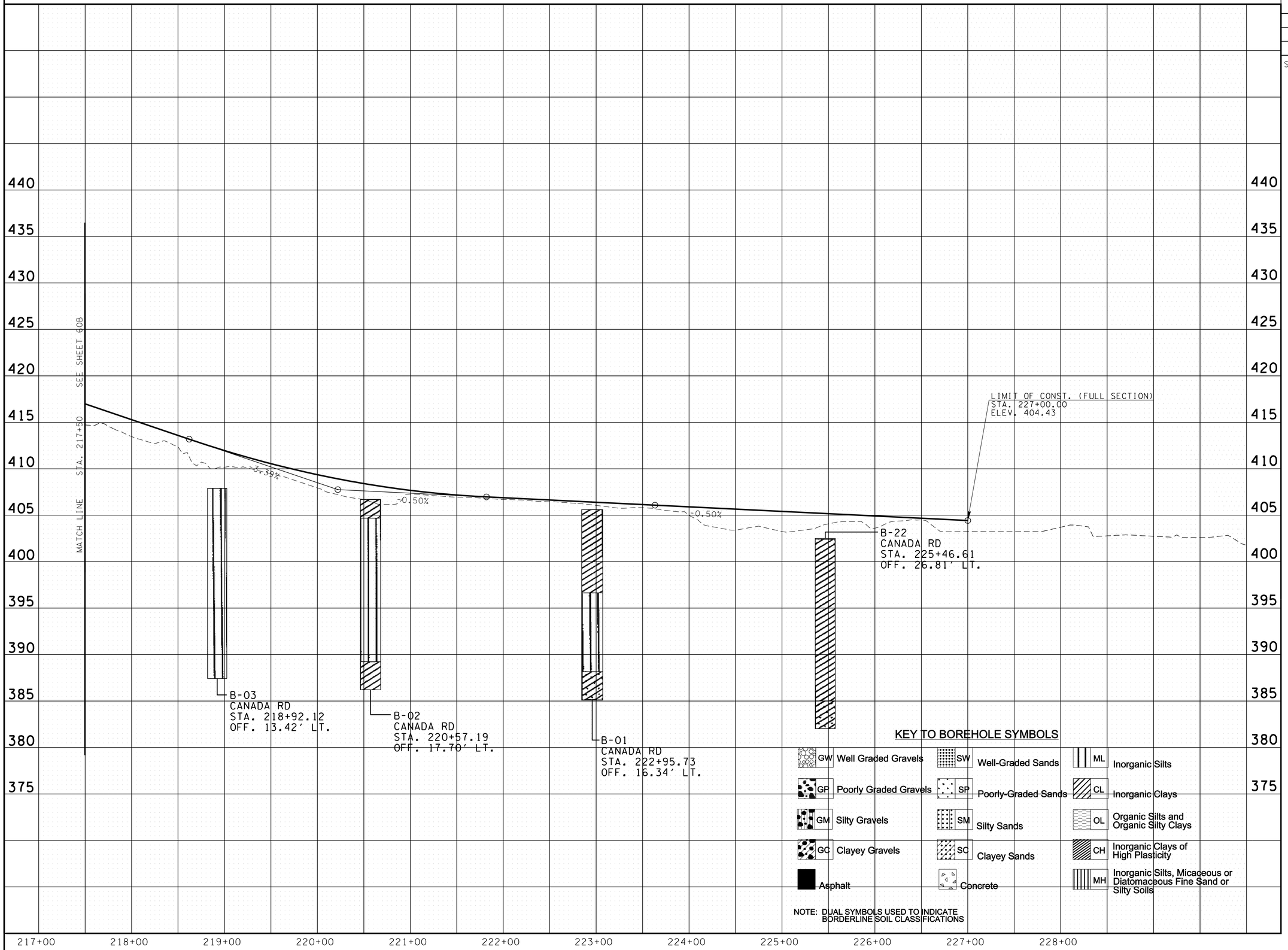
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	60C

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SHEETS PROFILE CANADA ROAD

STA. 217+50 TO EOP

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

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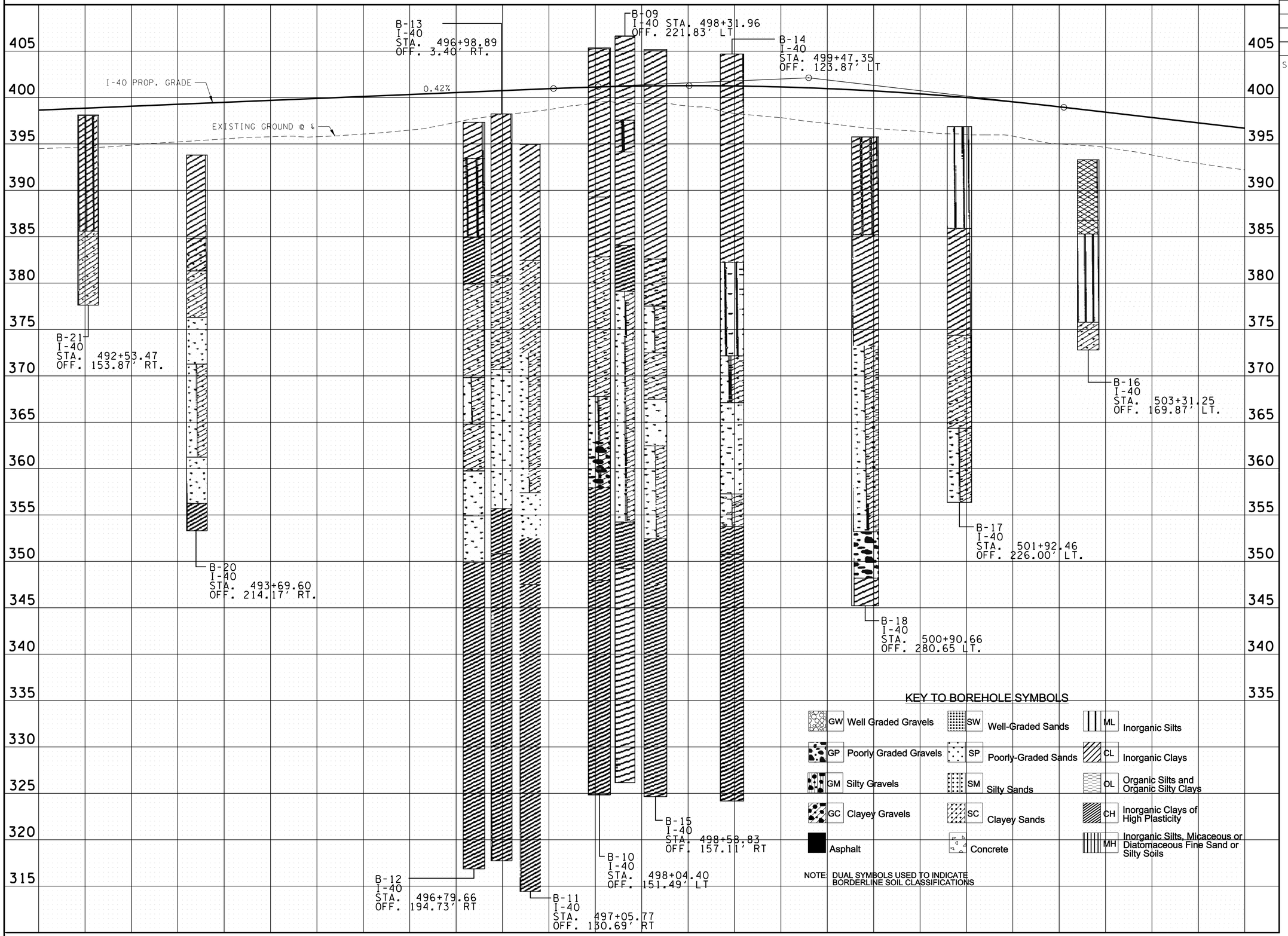
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	61

SHELBY CO. I-40



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SHEETS PROFILE I-40

STA. 492+00 TO STA. 505+00

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

3/5/2014 4:42:9 PM
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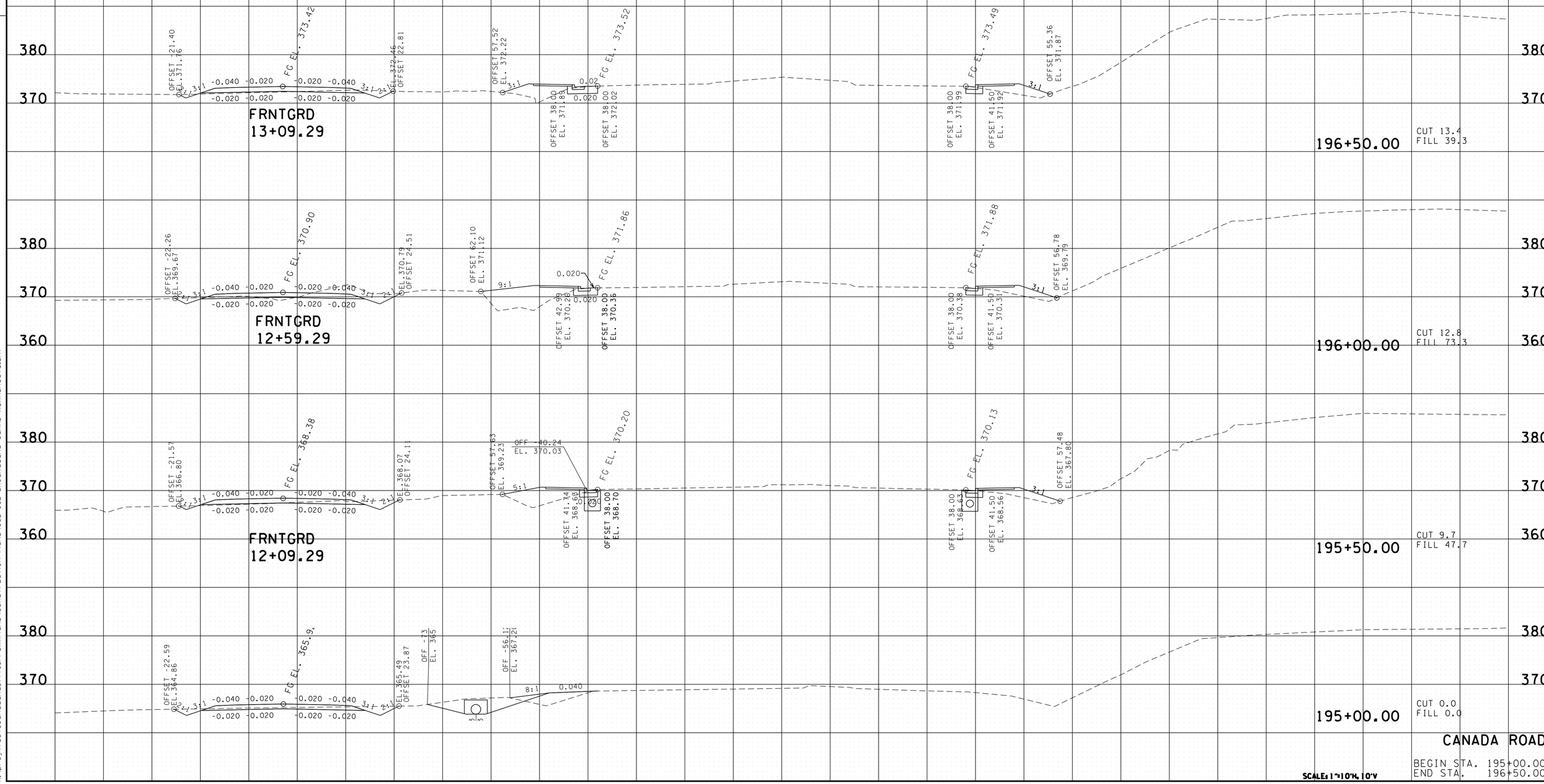
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	68
CONST.	2013	NH-I-40(283)20	62

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 195+00.00
END STA. 196+50.00

SCALE: 1"=10'H, 10'V

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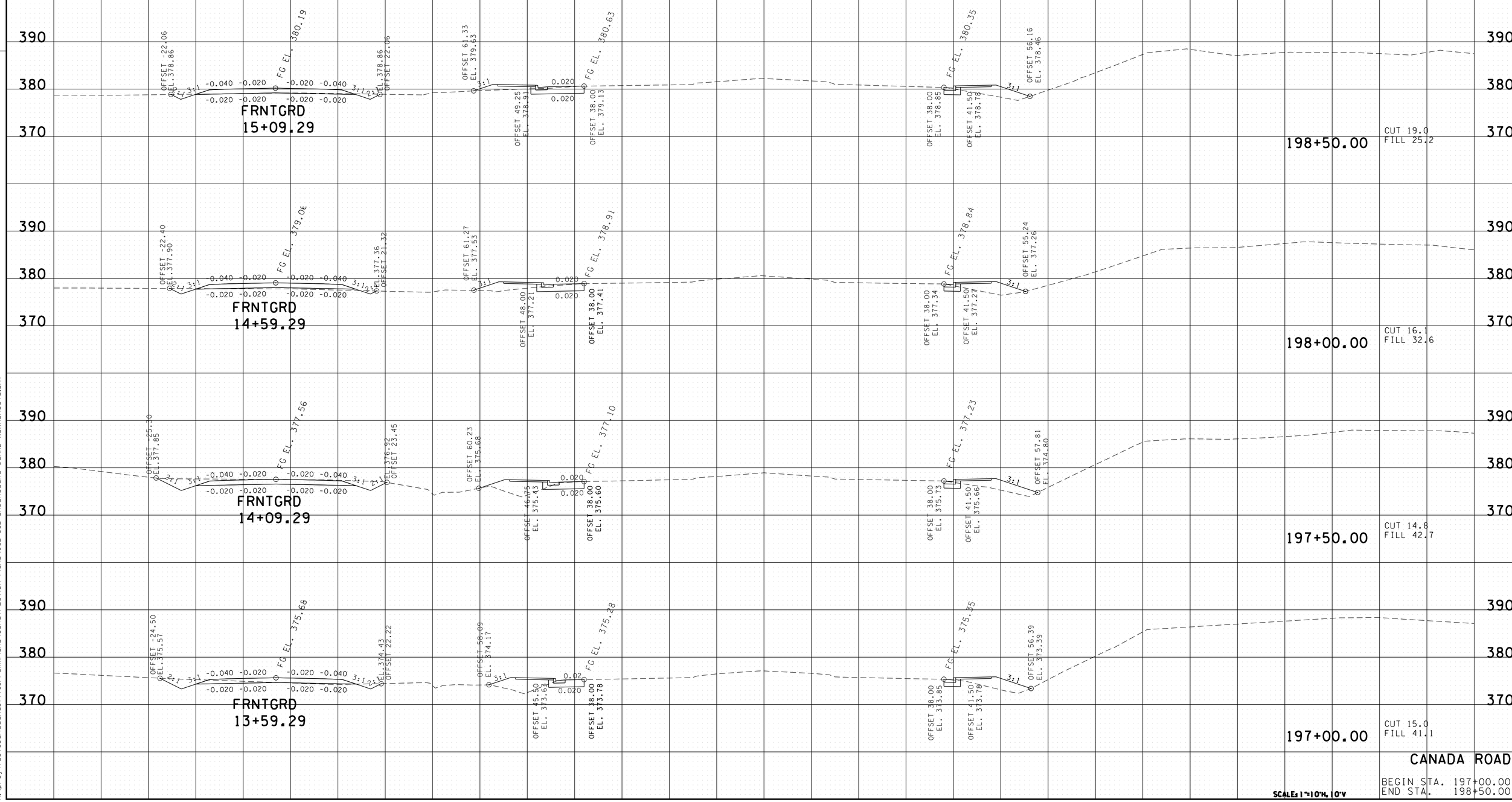
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	69
CONST.	2013	NH-I-40(283)20	63

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

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END STA. 198+50.00

SCALE: 1"=10'H, 10'V

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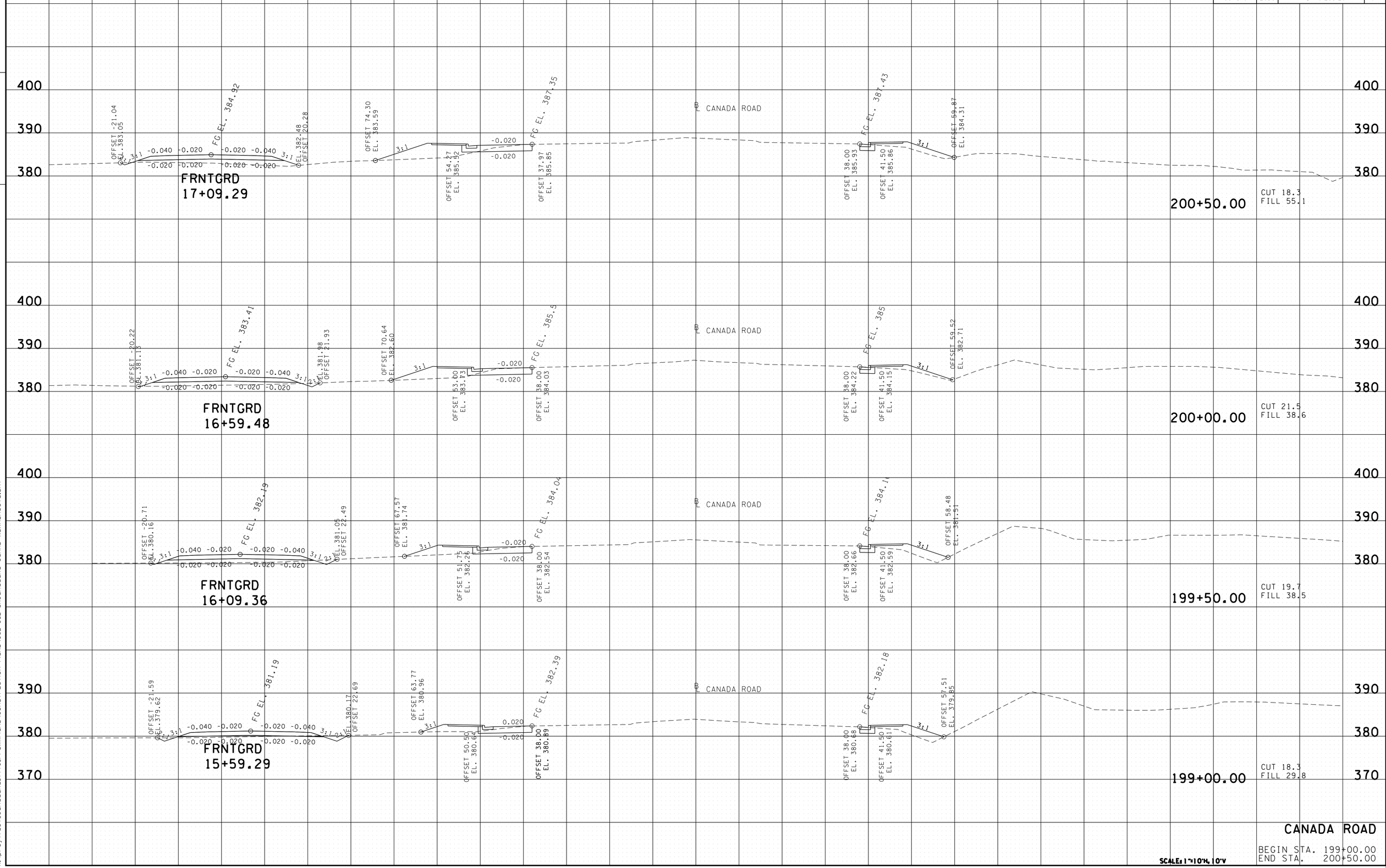
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	70
CONST.	2013	NH-I-40(283)20	64

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



CANADA ROAD

BEGIN STA. 199+00.00
END STA. 200+50.00

SCALE: 1"=10'H, 10'V

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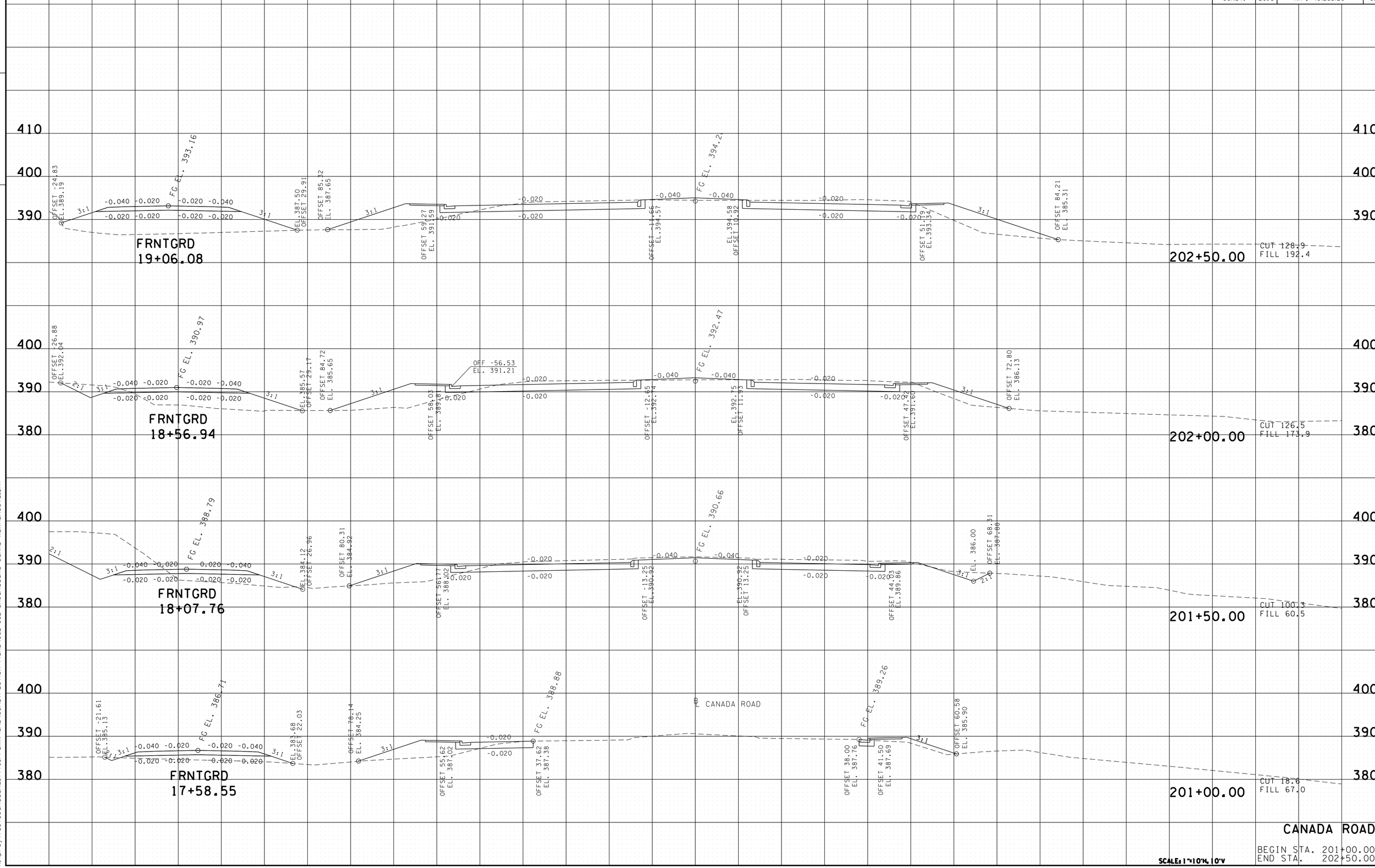
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	71
CONST.	2013	NH-I-40(283)20	65

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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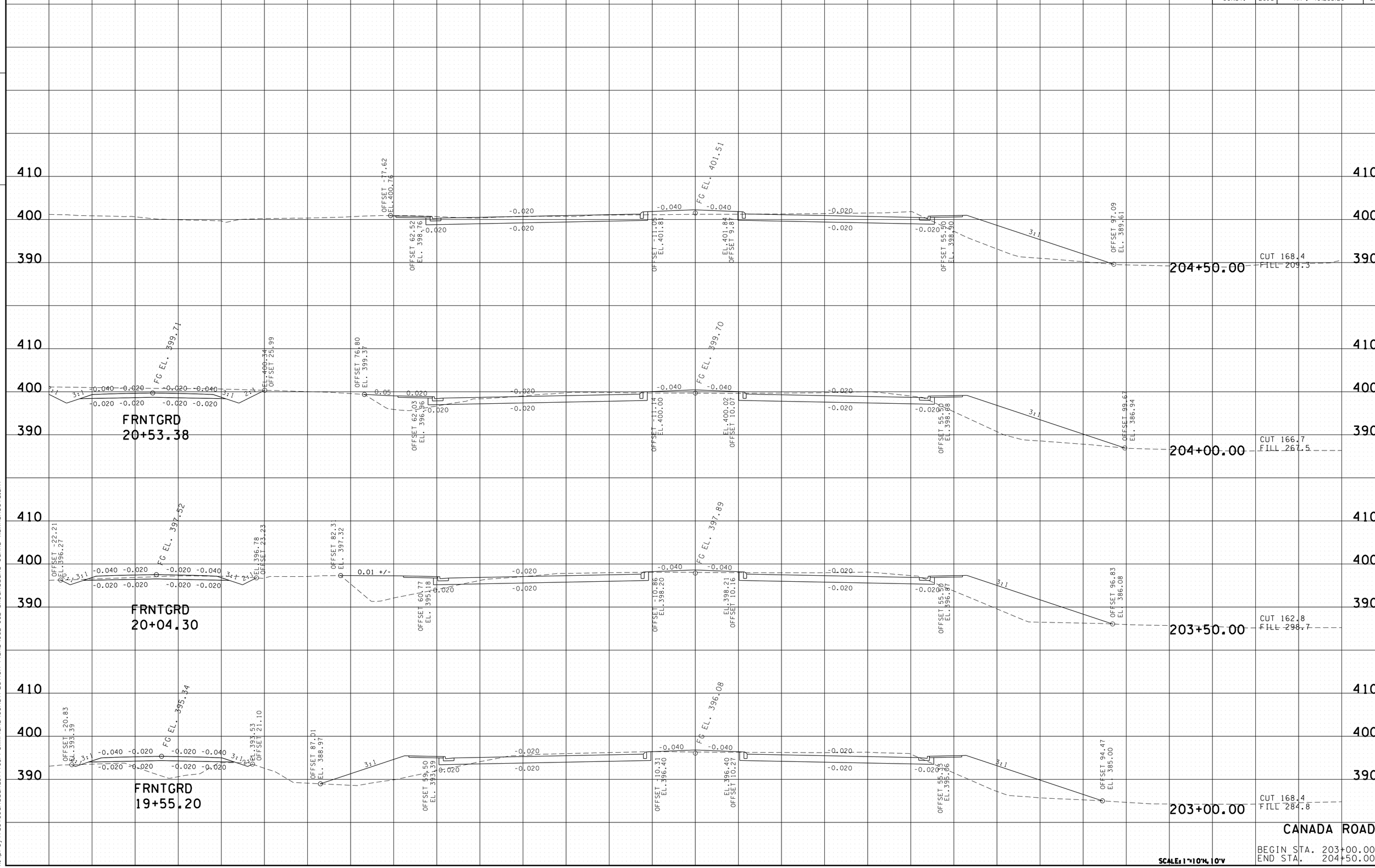
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	72
CONST.	2013	NH-I-40(283)20	66

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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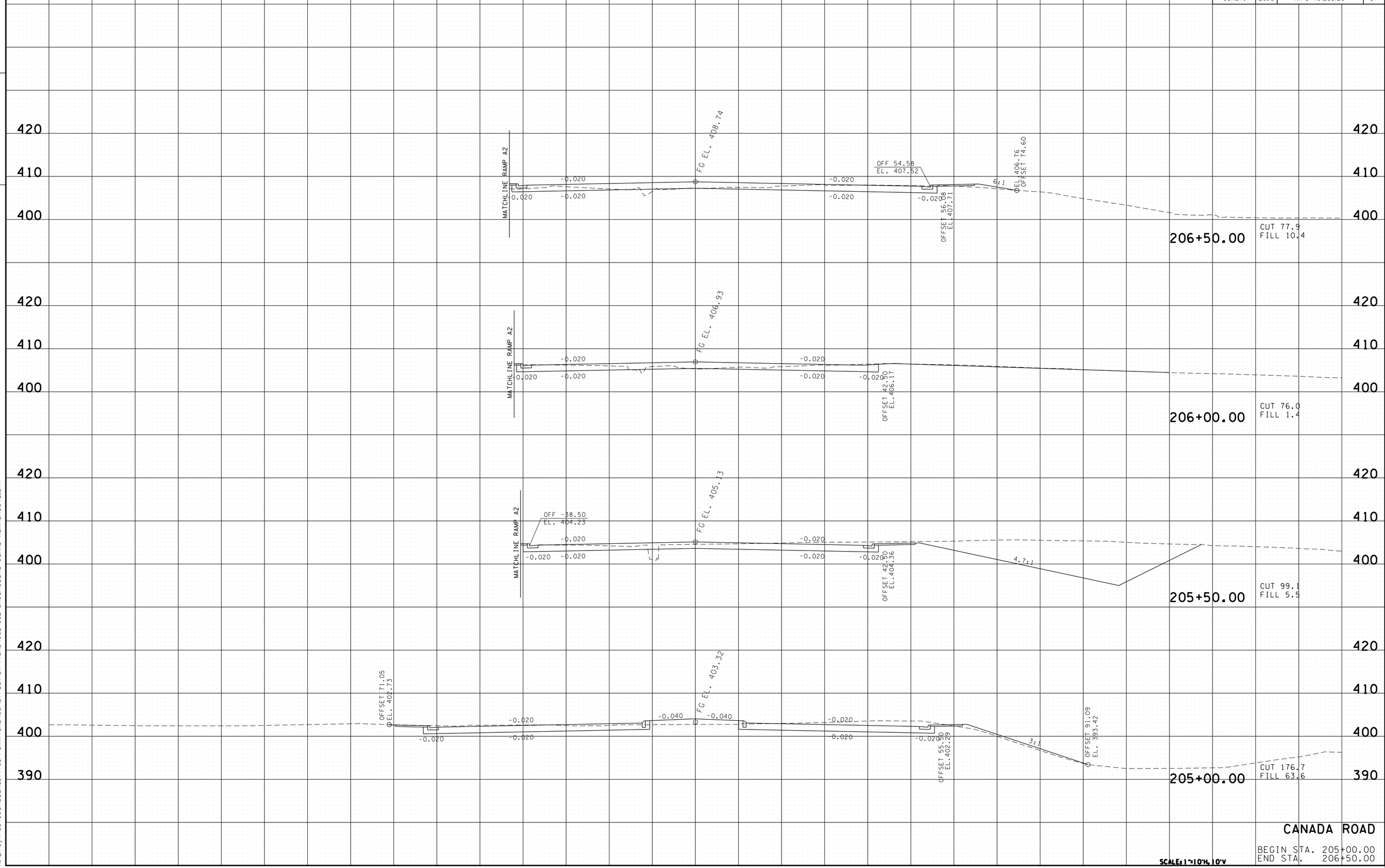
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	73
CONST.	2013	NH-I-40(283)20	67

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

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SCALE: 1"=10'H, 10'V

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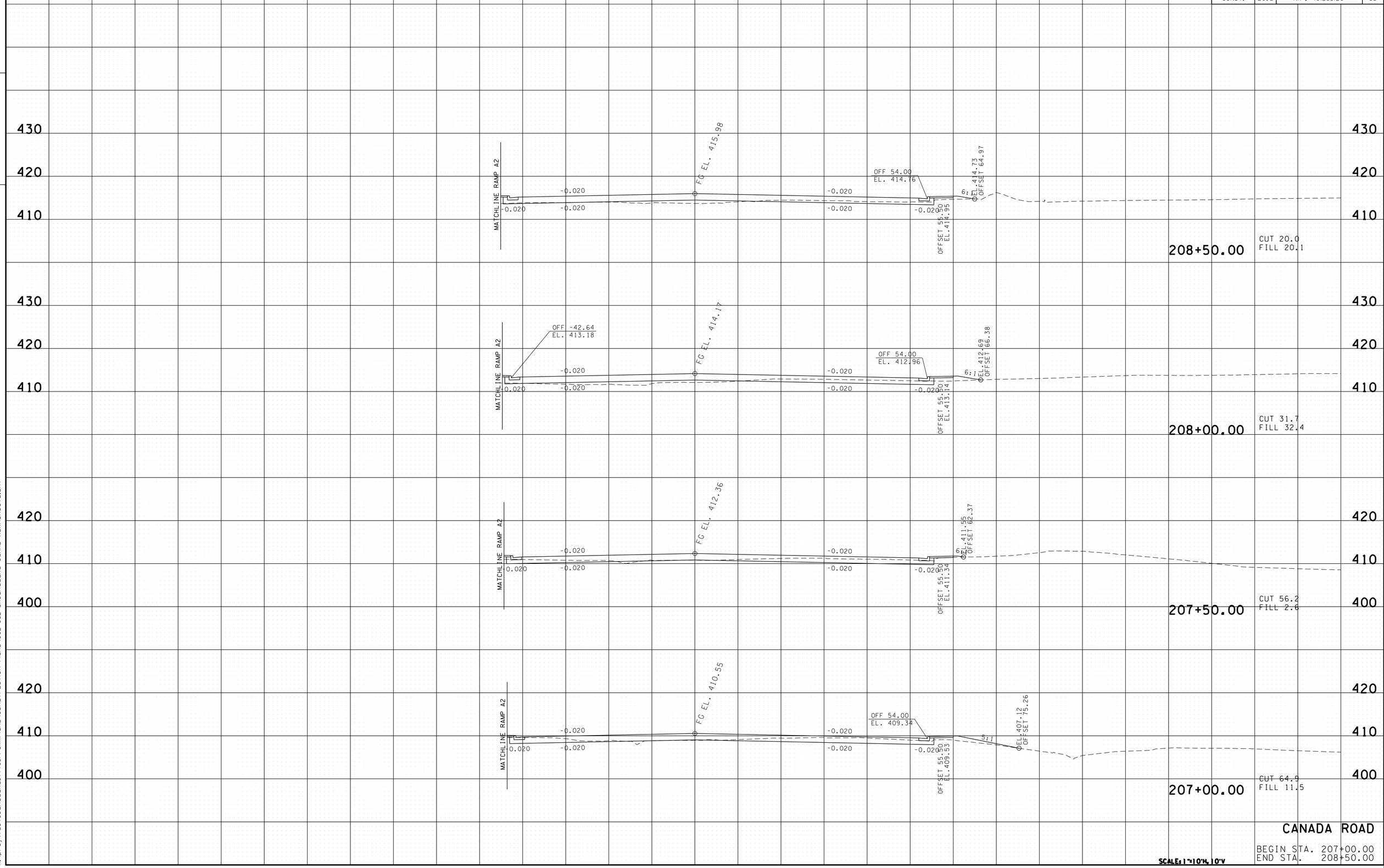
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	74
CONST.	2013	NH-I-40(283)20	68

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

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SCALE: 1"=10'H, 10'V

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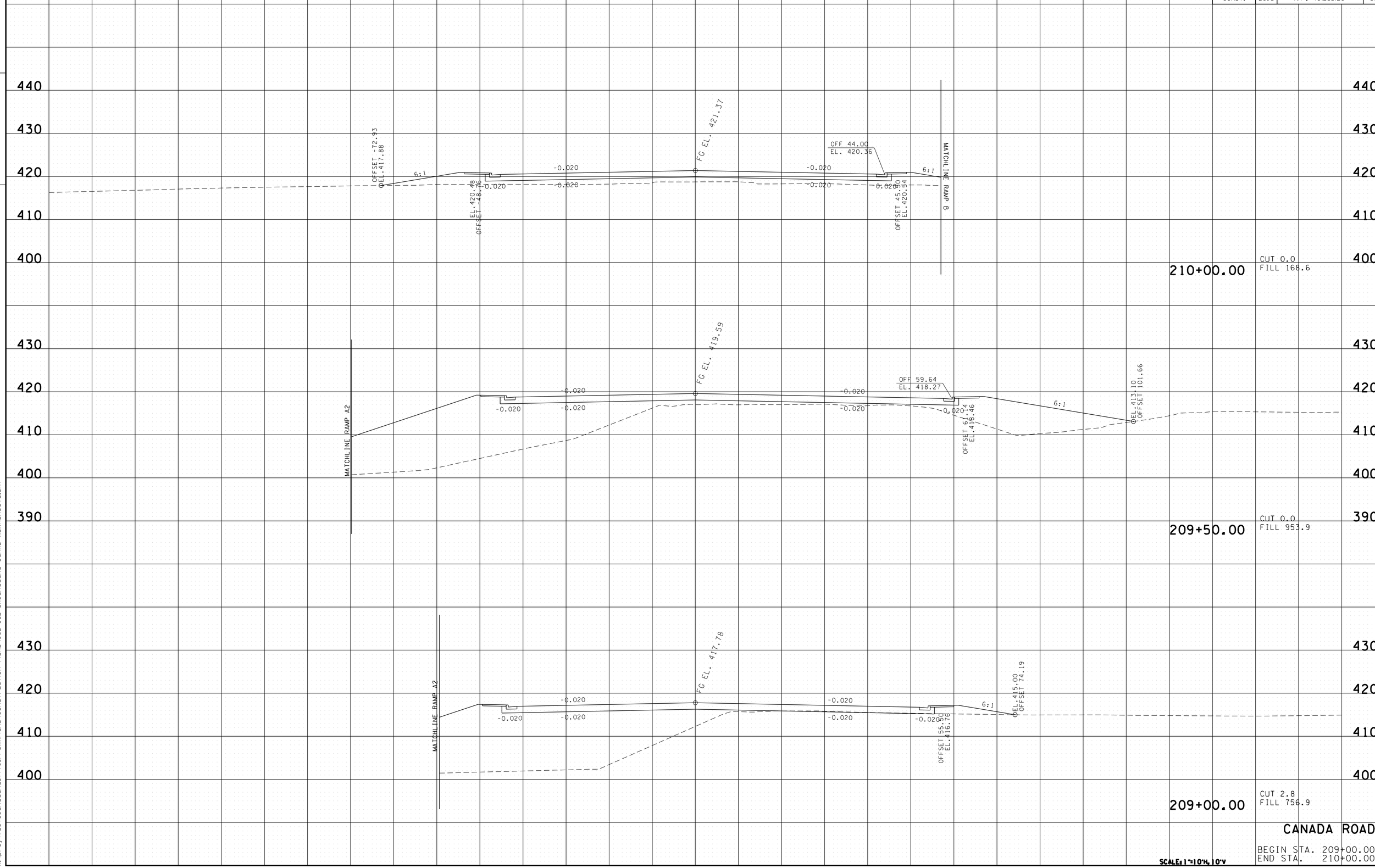
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	75
CONST.	2013	NH-I-40(283)20	69

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 209+00.00
END STA. 210+00.00

SCALE: 1"=10'H, 10'V

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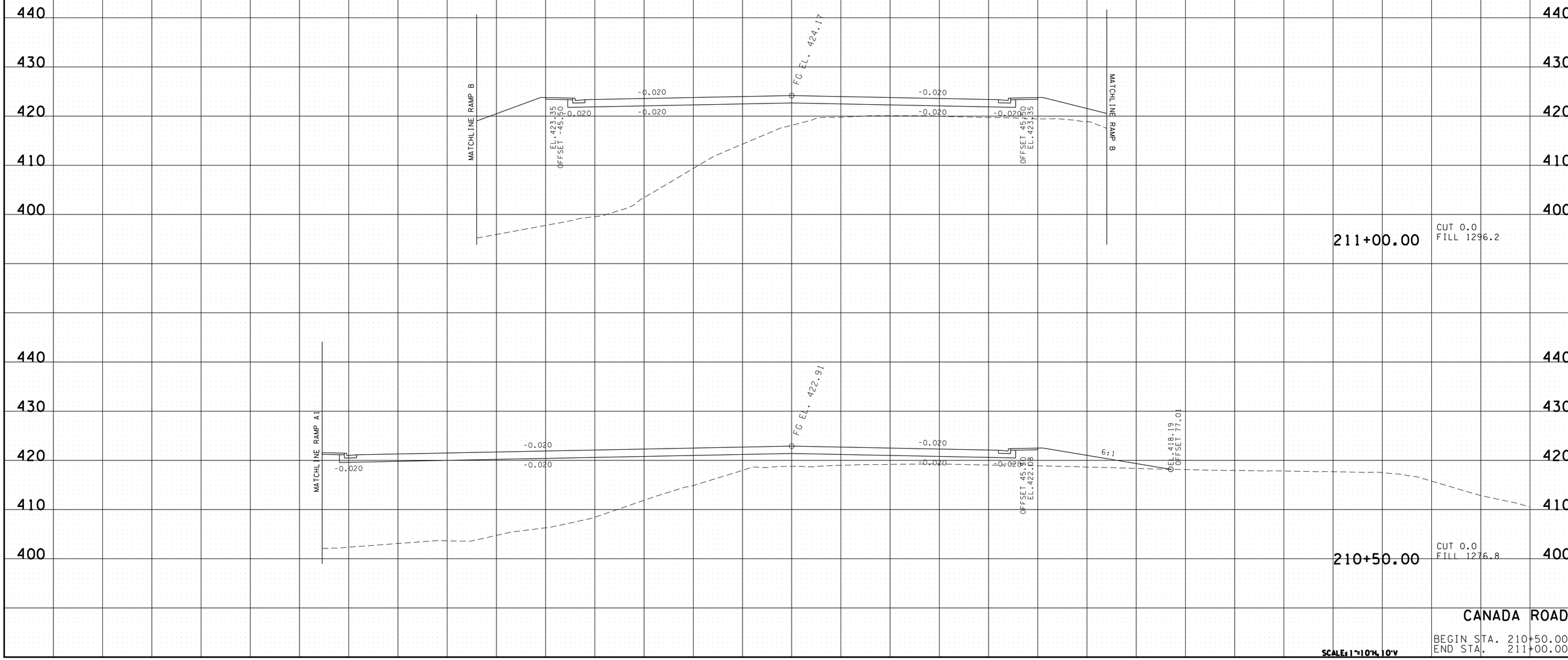
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	76
CONST.	2013	NH-I-40(283)20	70

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

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END STA. 211+00.00

SCALE: 1"=10'H, 10'V

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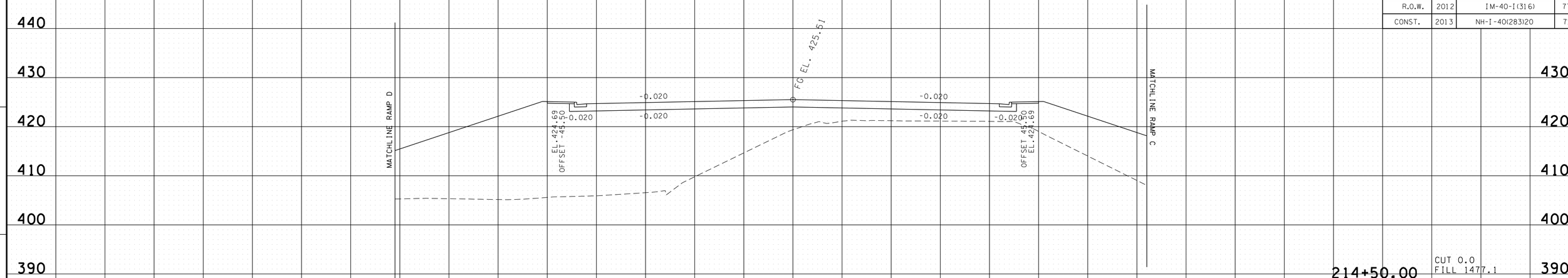
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	77
CONST.	2013	NH-I-40(283)20	71

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



214+50.00 CUT 0.0 FILL 1477.1

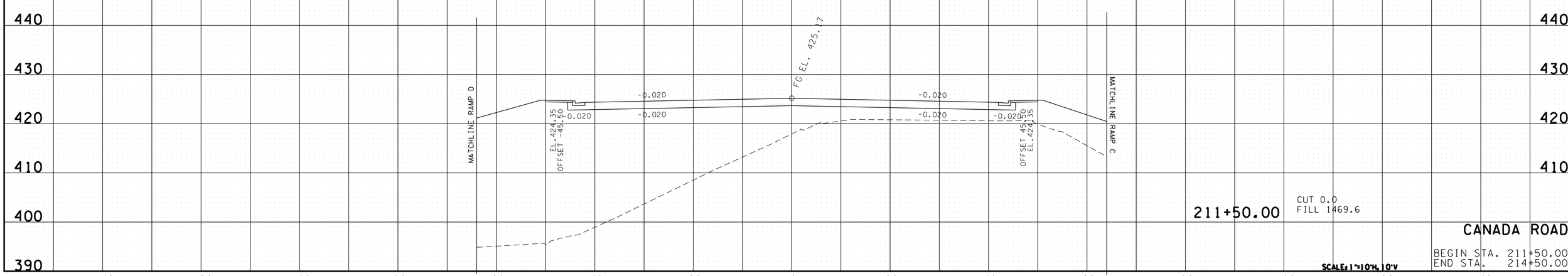
BRIDGE (SEE STRUCTURAL PLANS) 214+00.00

BRIDGE (SEE STRUCTURAL PLANS) 213+50.00

BRIDGE (SEE STRUCTURAL PLANS) 213+00.00

BRIDGE (SEE STRUCTURAL PLANS) 212+50.00

BRIDGE (SEE STRUCTURAL PLANS) 212+00.00



211+50.00 CUT 0.0 FILL 1469.6

CANADA ROAD

BEGIN STA. 211+50.00
END STA. 214+50.00

SCALE: 1"=10'H, 10'V

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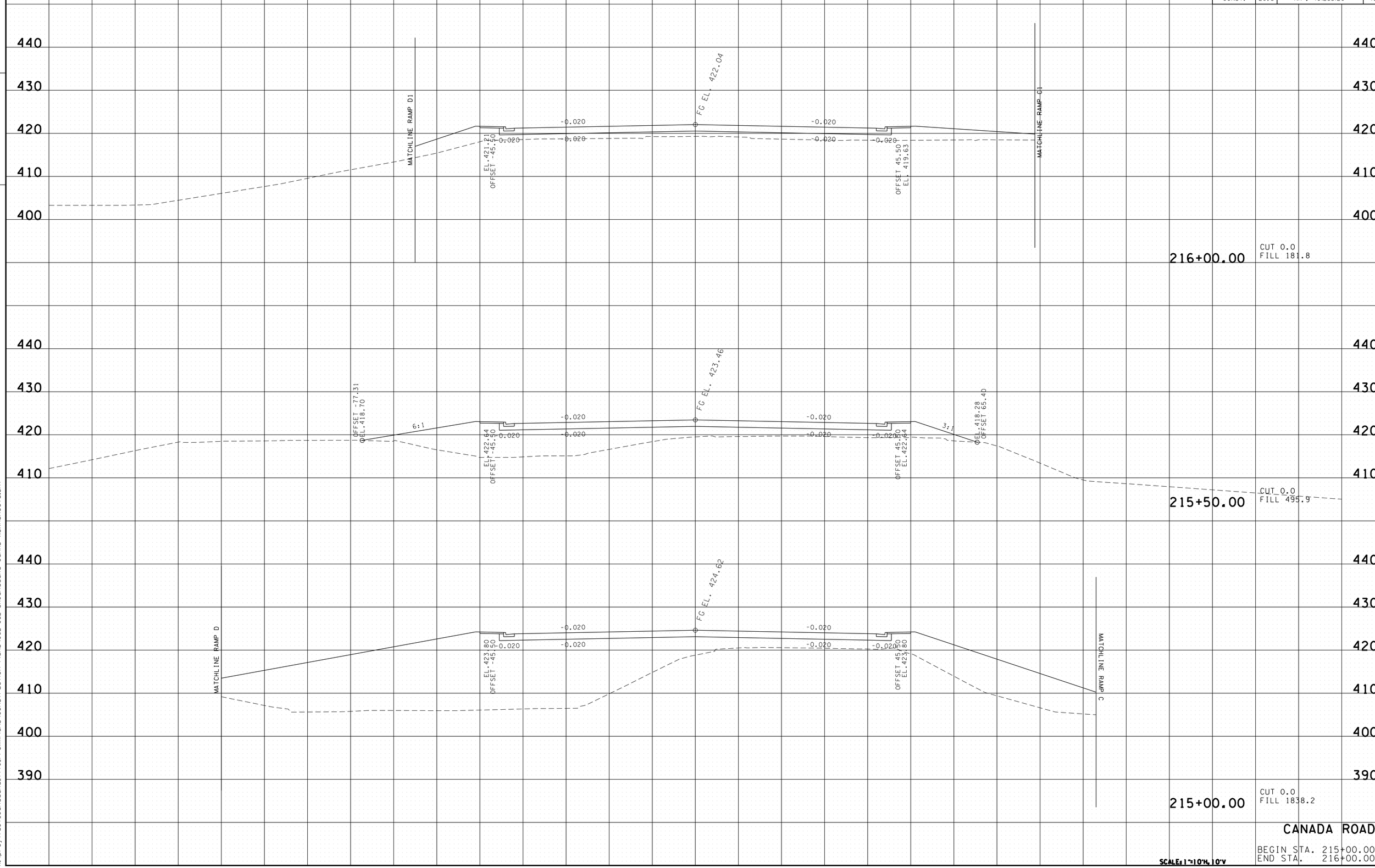
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	78
CONST.	2013	NH-I-40(283)20	72

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

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SCALE: 1"=10'H, 10'V

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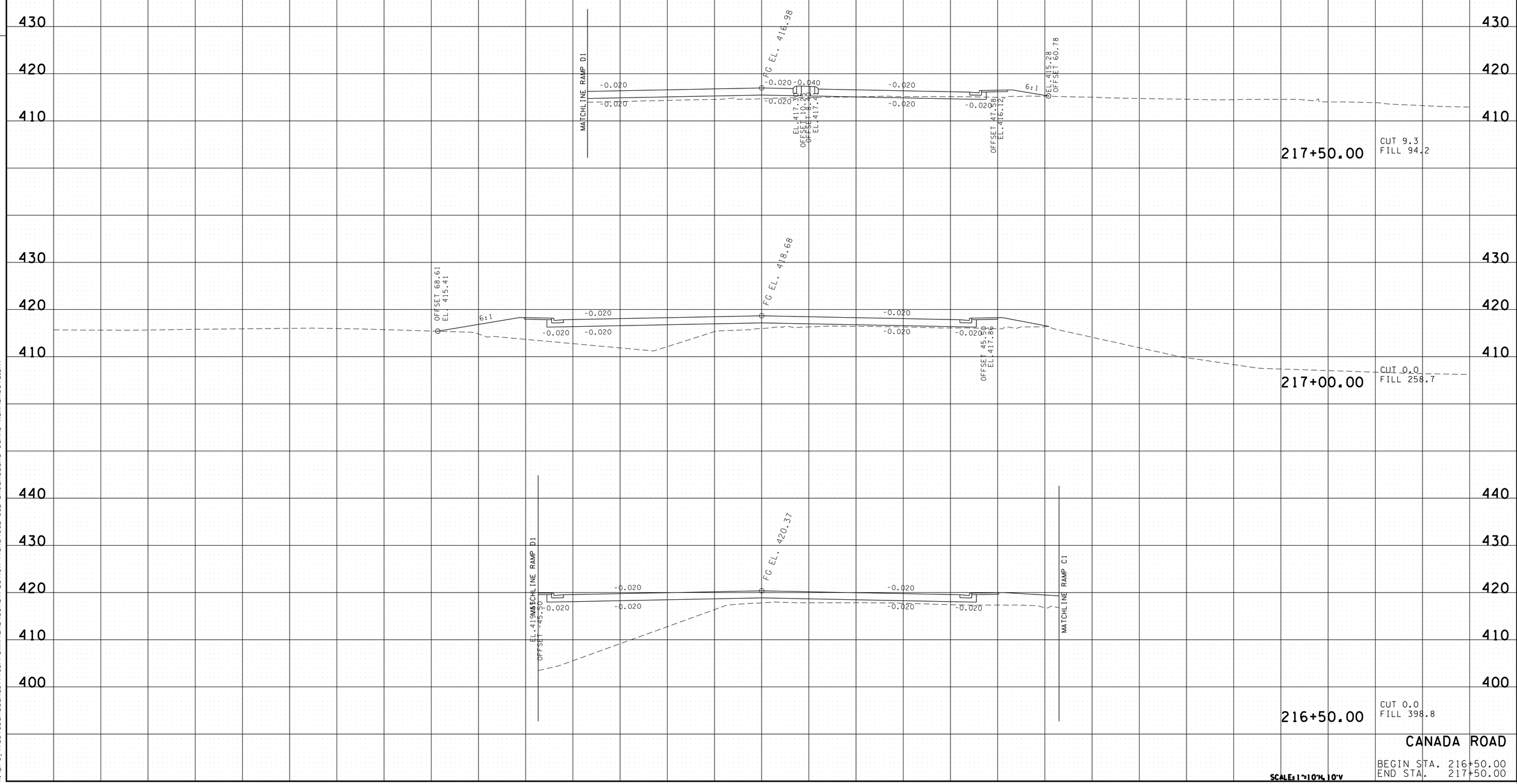
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	79
CONST.	2013	NH-I-40(283)20	73

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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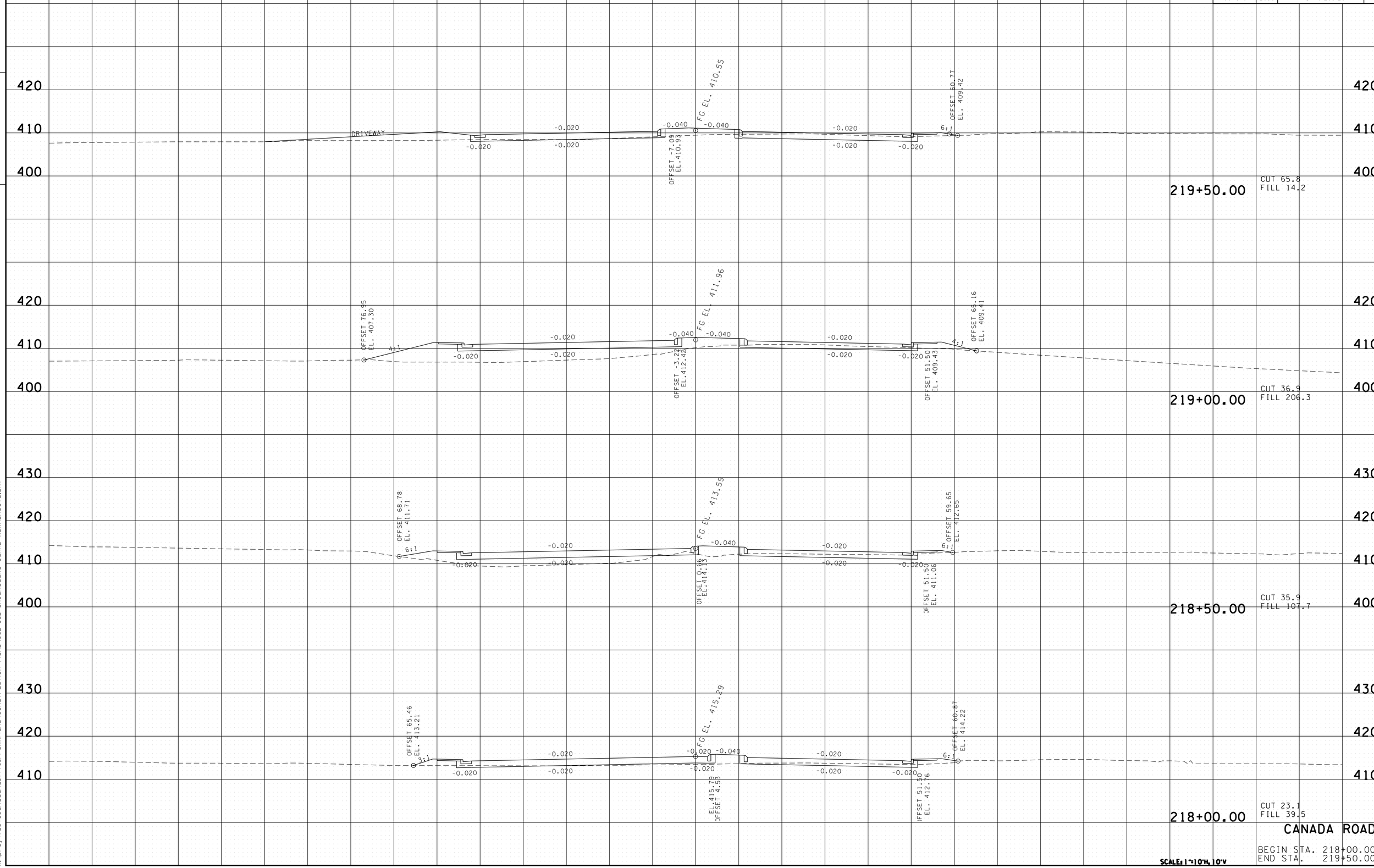
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	80
CONST.	2013	NH-I-40(283)20	74

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 218+00.00
END STA. 219+50.00

SCALE: 1"=10'H, 10'V

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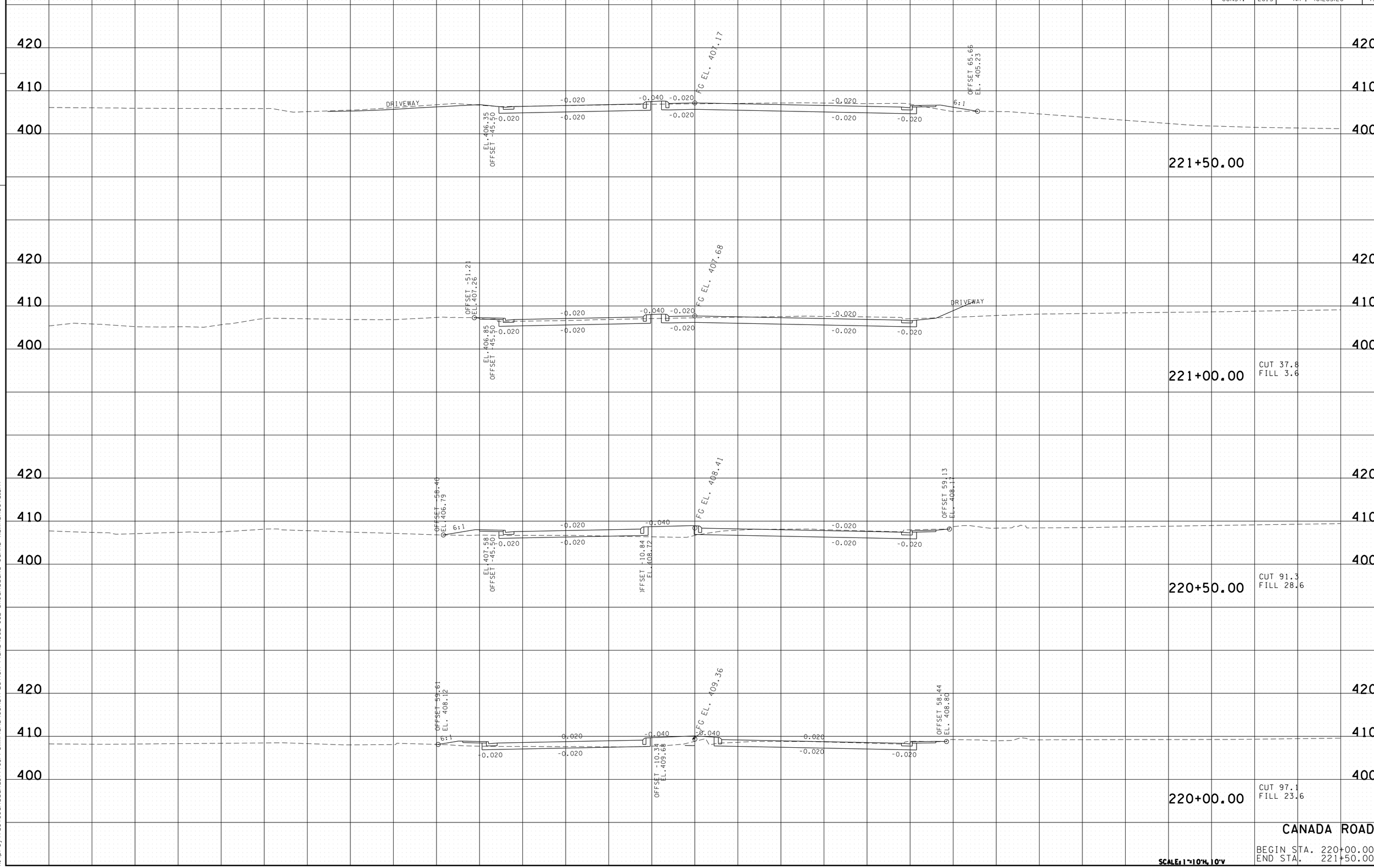
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	81
CONST.	2013	NH-I-40(283)20	75

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 220+00.00
END STA. 221+50.00

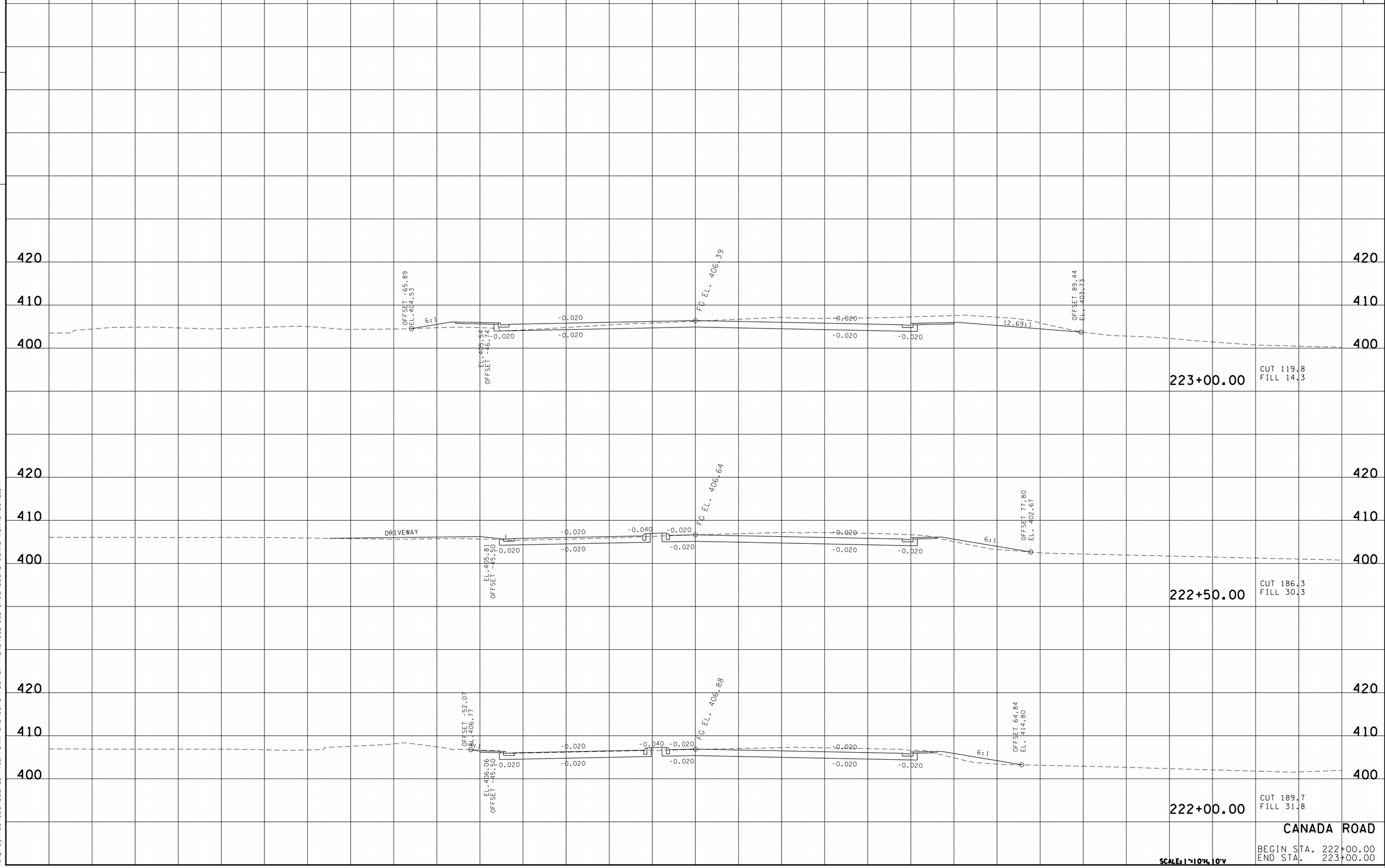
SCALE: 1"=10'H, 10'V

2/26/2014 3:22:44 PM
K:\proj\Tdot_CanadaRd_7779_PreliminPlans\Construction Plans\062-082 SHCanadaRd CanRD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	82
CONST.	2013	NH-I-40(283)20	76

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 222+00.00
END STA. 223+00.00

SCALE: 1"=10'H, 10'V

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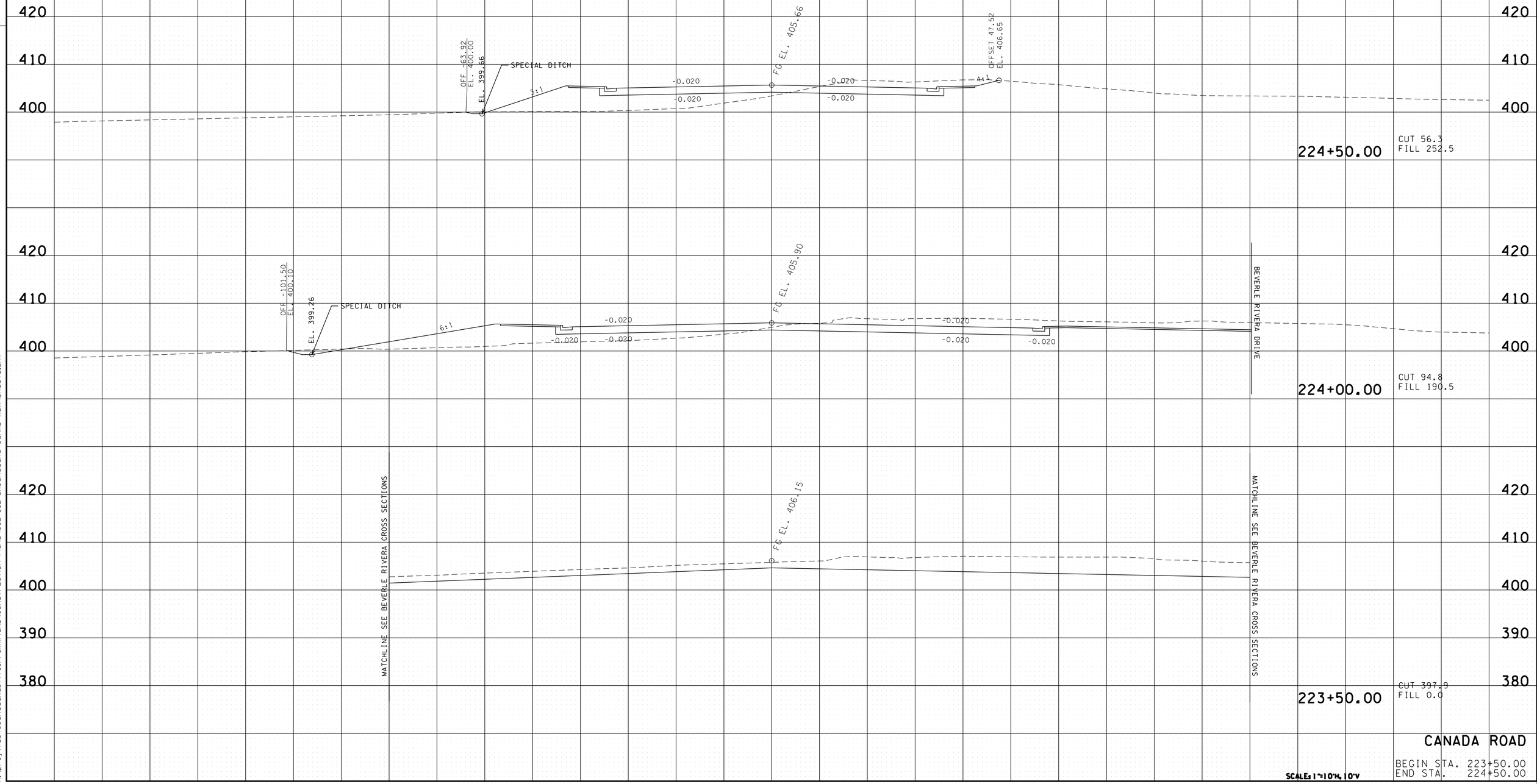
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	83
CONST.	2013	NH-I-40(283)20	77

REV. 11/30/2012 REVISED PROPOSED CROSS SECTIONS TO REFLECT CHANGE IN TYPICAL SECTION.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 223+50.00
END STA. 224+50.00

SCALE: 1"=10'H, 10'V

2/26/2014 3:22:49 PM
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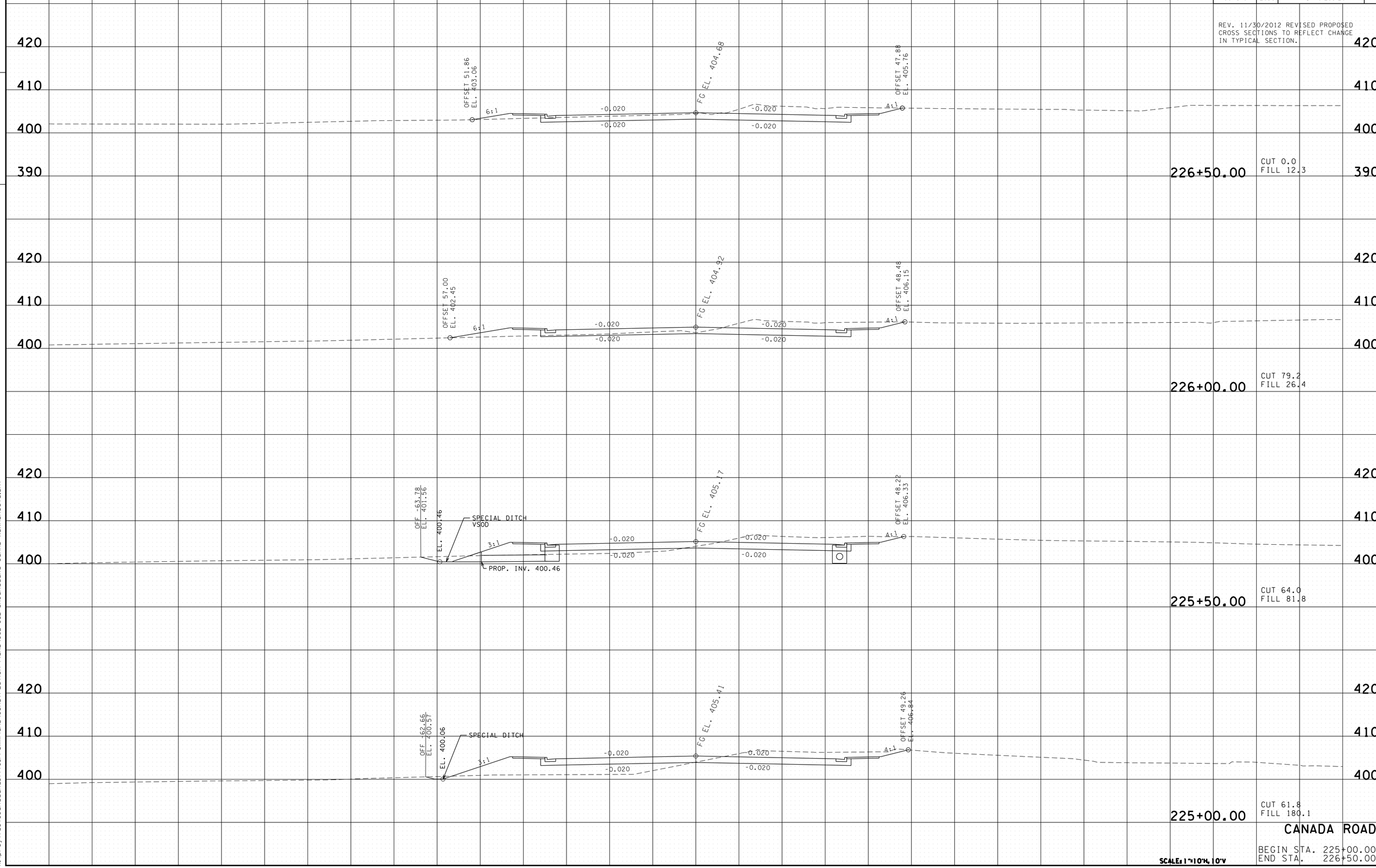
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	84
CONST.	2013	NH-I-40(283)20	78

REV. 11/30/2012 REVISED PROPOSED CROSS SECTIONS TO REFLECT CHANGE IN TYPICAL SECTION.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 225+00.00
END STA. 226+50.00

SCALE: 1"=10'H, 10'V

2/26/2014 3:22:52 PM
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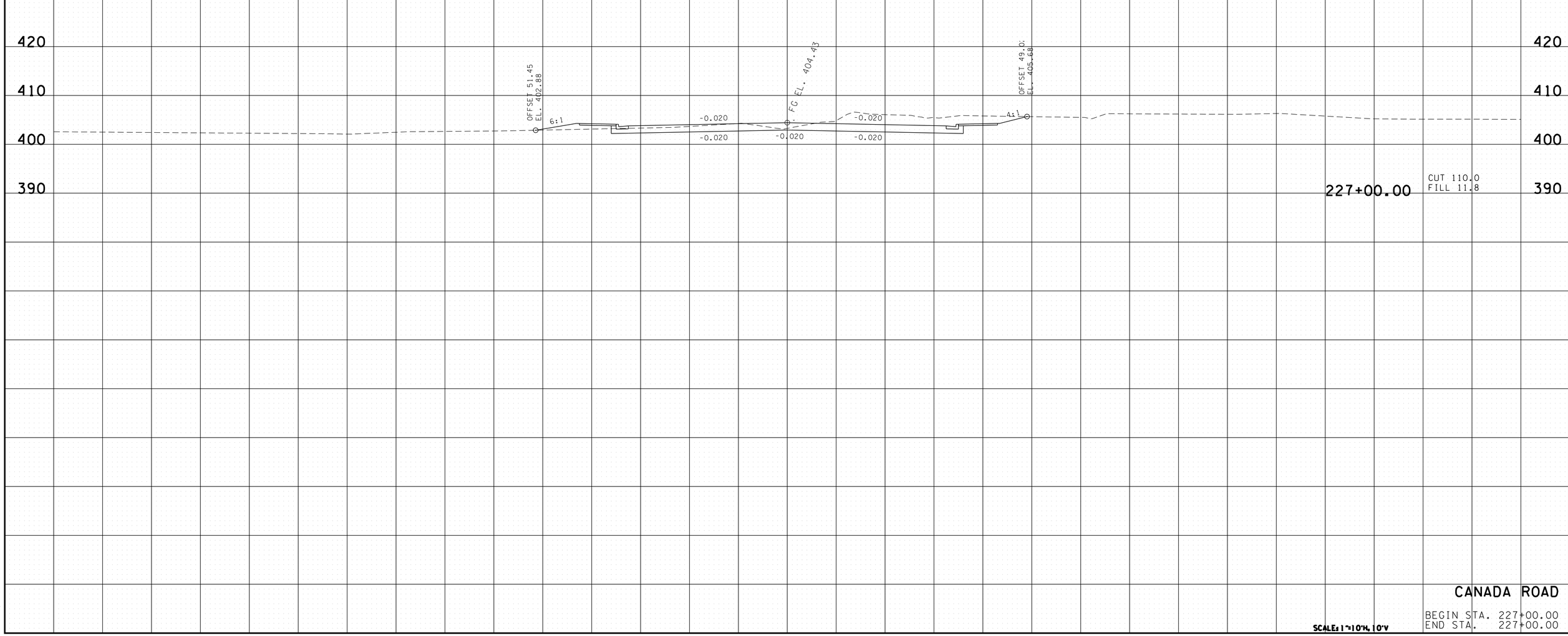
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	85
CONST.	2013	NH-I-40(283)20	79

REV. 11/30/2012 REVISED PROPOSED CROSS SECTIONS TO REFLECT CHANGE IN TYPICAL SECTION.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CANADA ROAD

BEGIN STA. 227+00.00
END STA. 227+00.00

SCALE: 1"=10'H, 10'V

2/26/2014 3:22:55 PM
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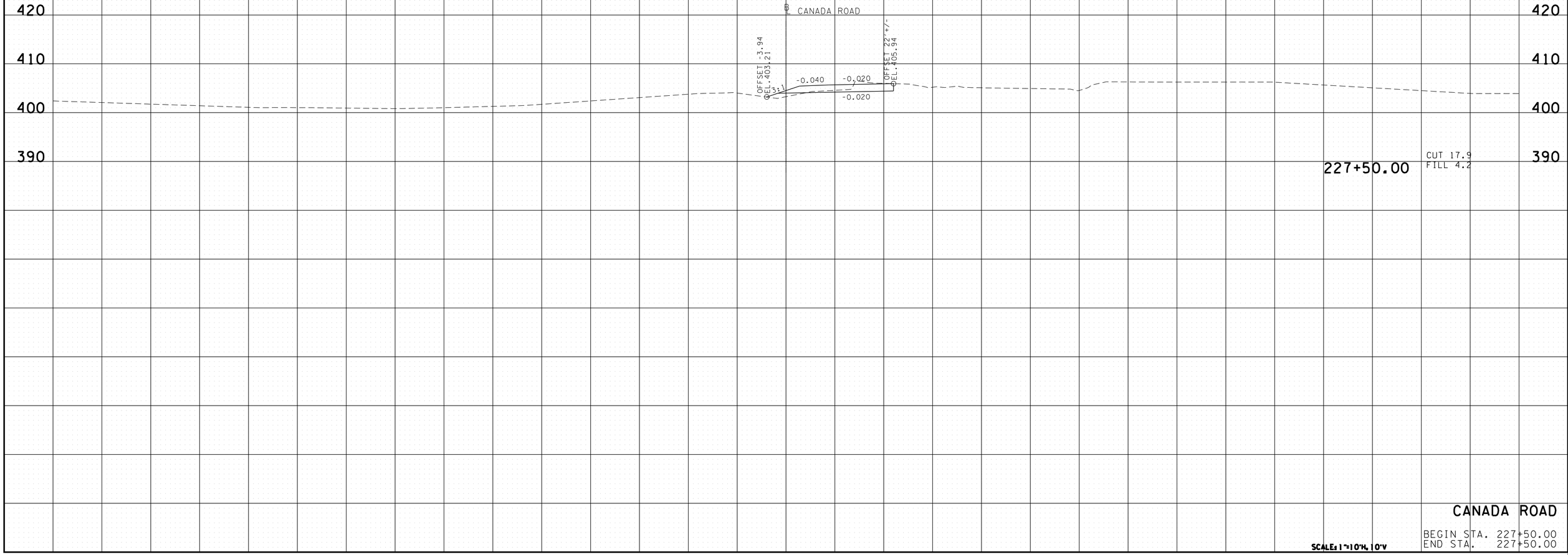
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	86
CONST.	2013	NH-I-40(283)20	80

REV. 11/30/2012 REVISED PROPOSED CROSS SECTIONS TO REFLECT CHANGE IN TYPICAL SECTION.



CANADA ROAD

BEGIN STA. 227+50.00
END STA. 227+50.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

2/26/2014 3:22:57 PM
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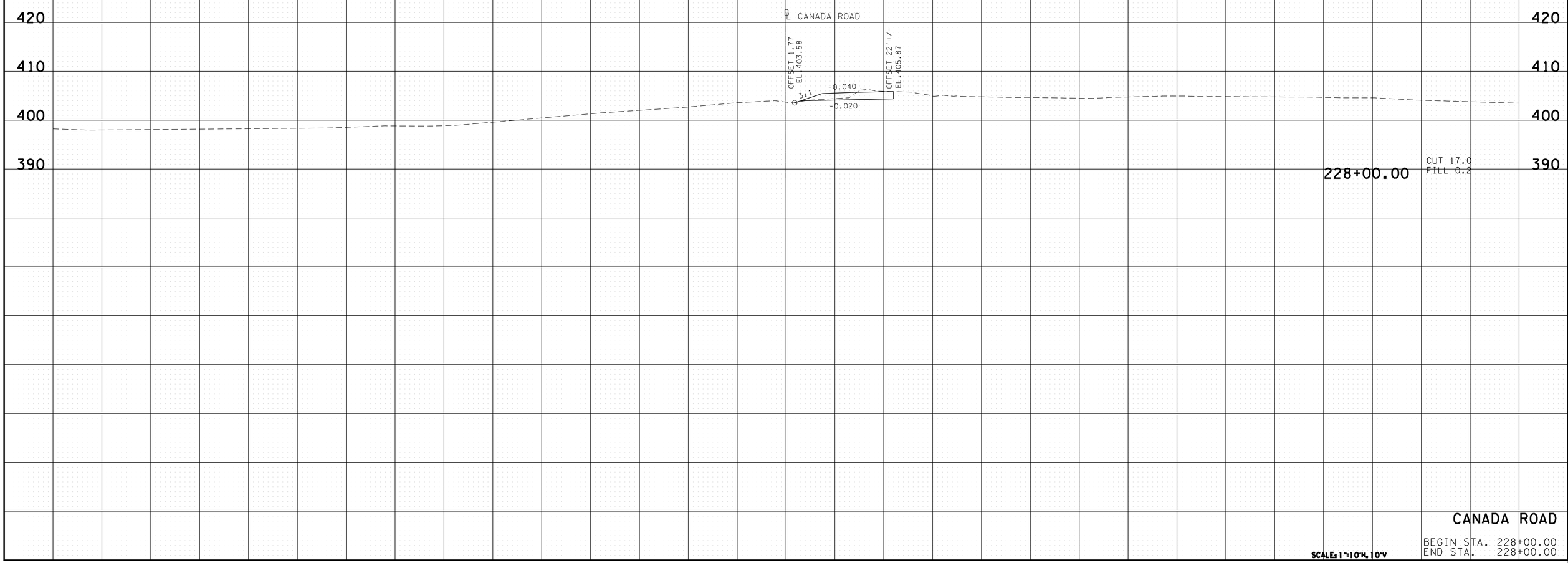
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40(283)20	81

REV. 11/30/2012 REVISED PROPOSED CROSS SECTIONS TO REFLECT CHANGE IN TYPICAL SECTION.



SCALE: 1"=10'H, 10'V

CANADA ROAD

BEGIN STA. 228+00.00
END STA. 228+00.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

2/26/2014 3:23:00 PM
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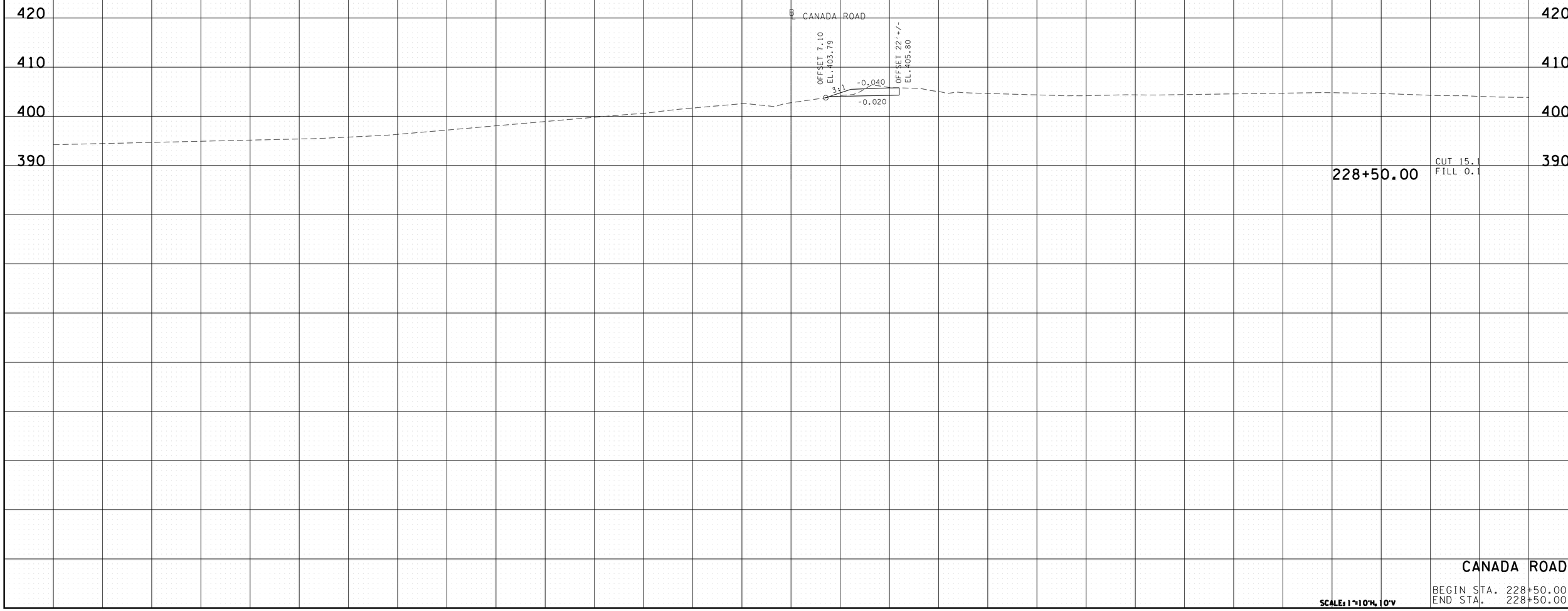
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40(283)20	82

REV. 11/30/2012 REVISED PROPOSED CROSS SECTIONS TO REFLECT CHANGE IN TYPICAL SECTION.



CANADA ROAD

BEGIN STA. 228+50.00
END STA. 228+50.00

SCALE: 1"=10'H, 10'V

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

2/26/2014 3:23:02 PM
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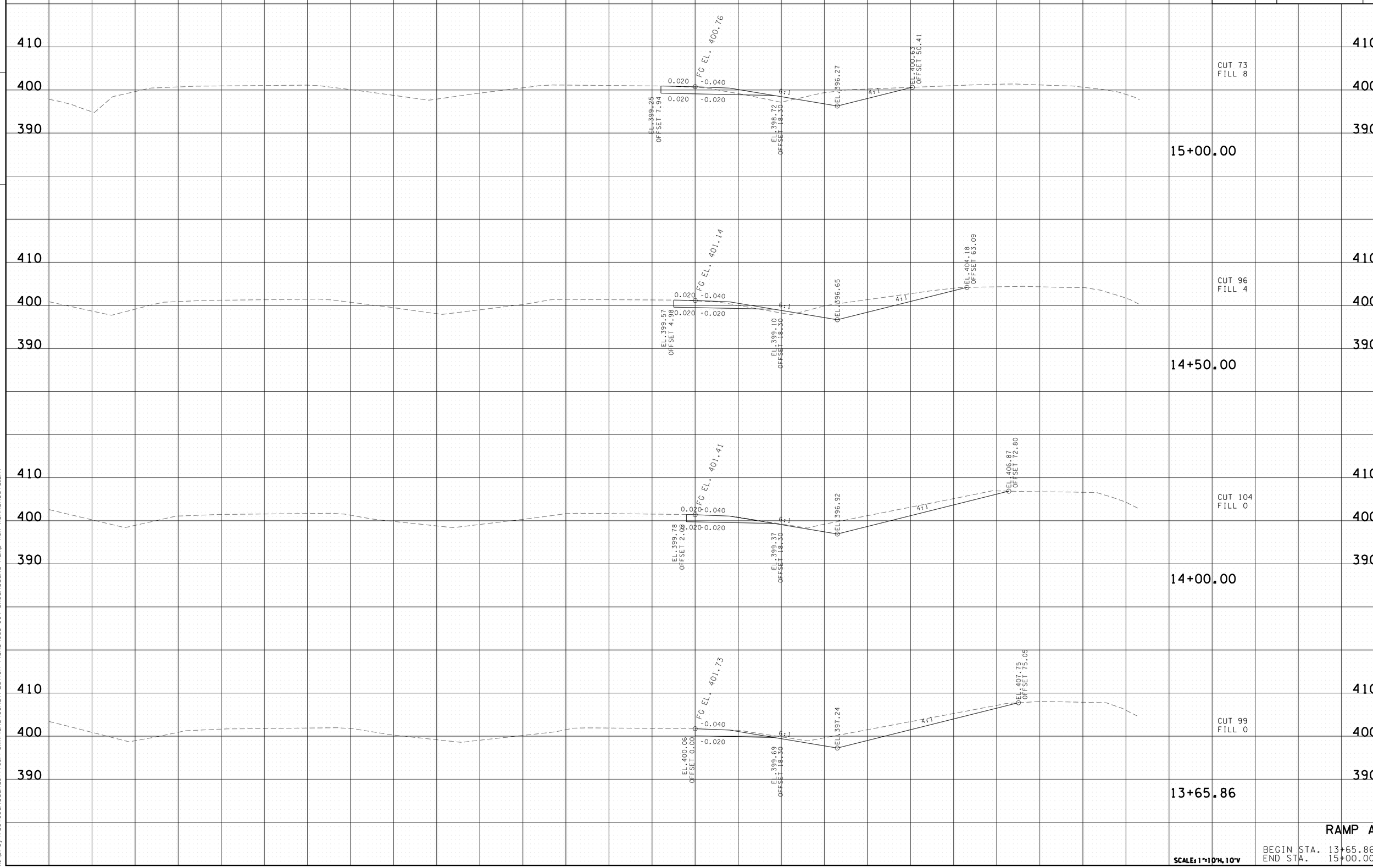
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	83

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

BEGIN STA. 13+65.86
END STA. 15+00.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:40:06 PM
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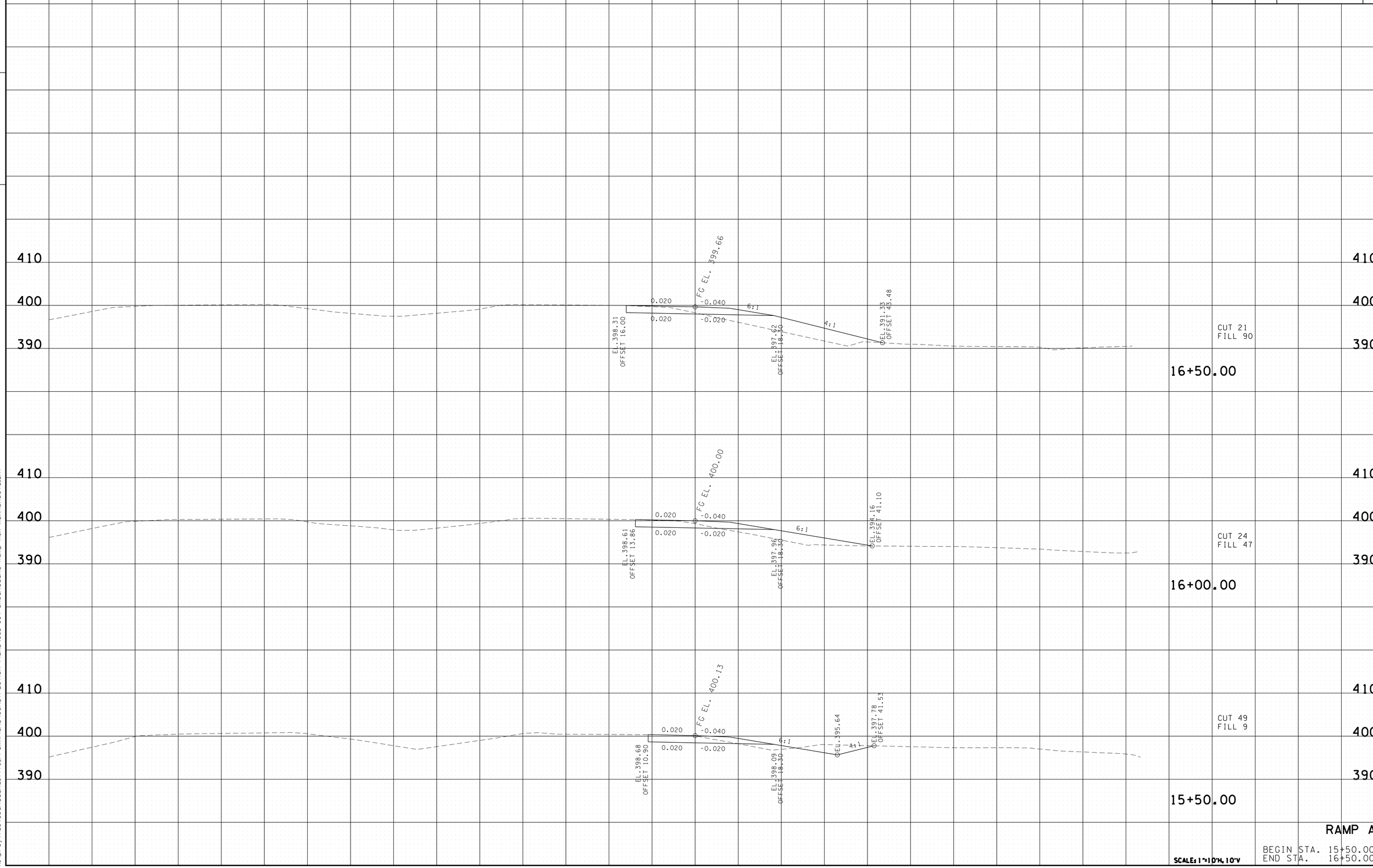
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	84

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP A

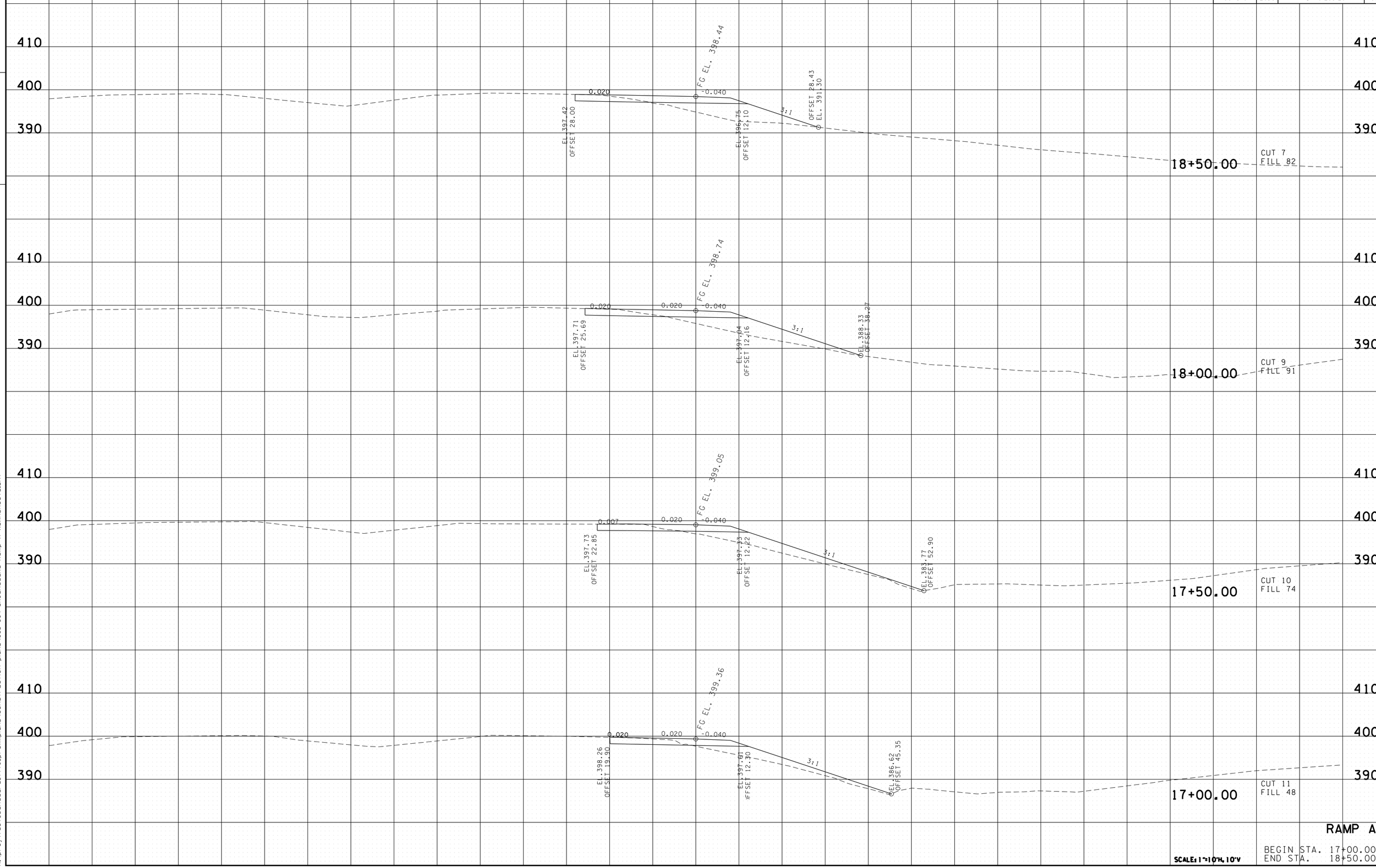
BEGIN STA. 15+50.00
END STA. 16+50.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:40:08 PM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\083-084 SHCanadaRd Ramp A.X xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	87
CONST.	2013	NH-I-40(283)20	85

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



RAMP A

BEGIN STA. 17+00.00
END STA. 18+50.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:45:07 PM
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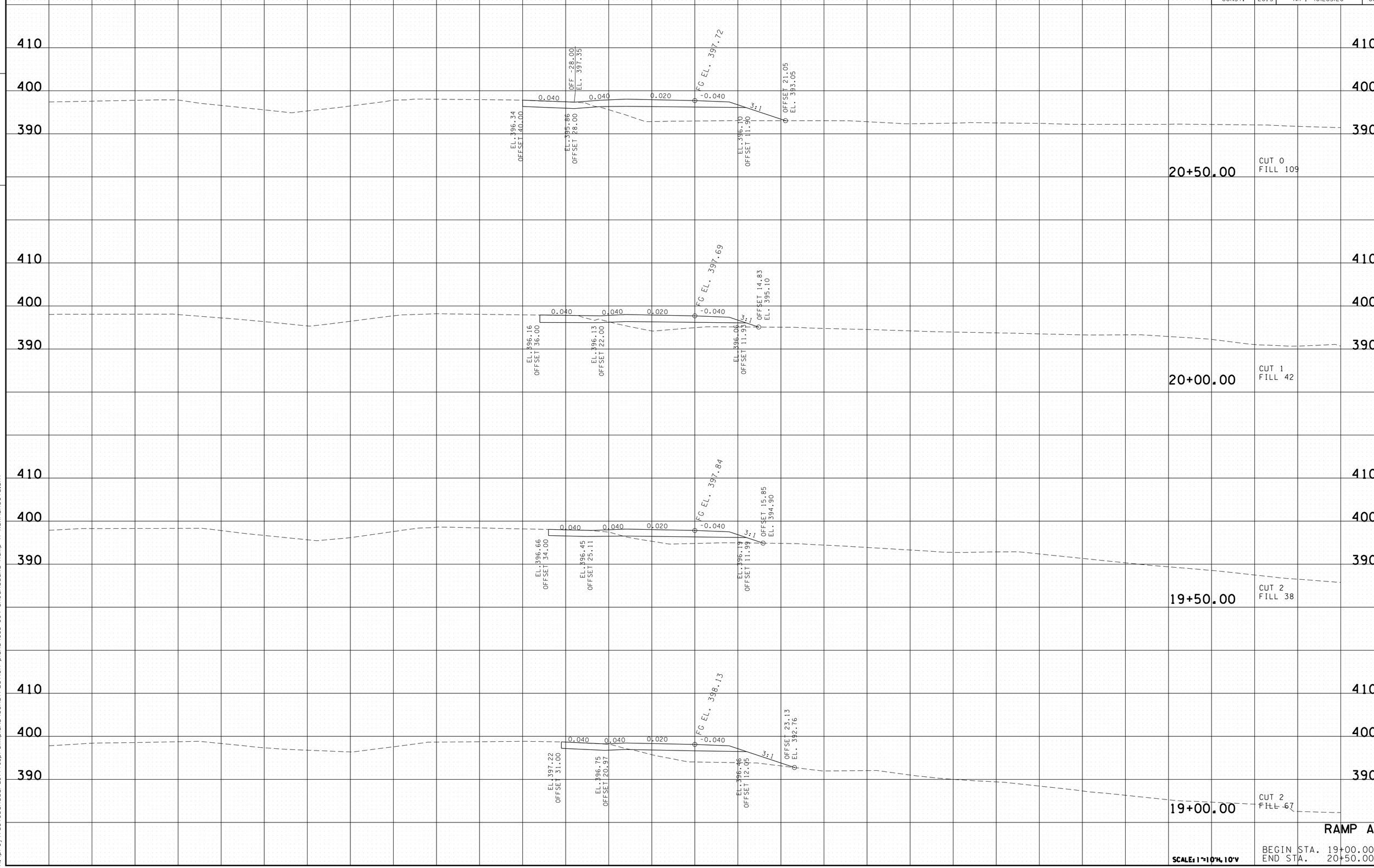
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	88
CONST.	2013	NH-I-40(283)20	86

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

BEGIN STA. 19+00.00
END STA. 20+50.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:45:11 PM
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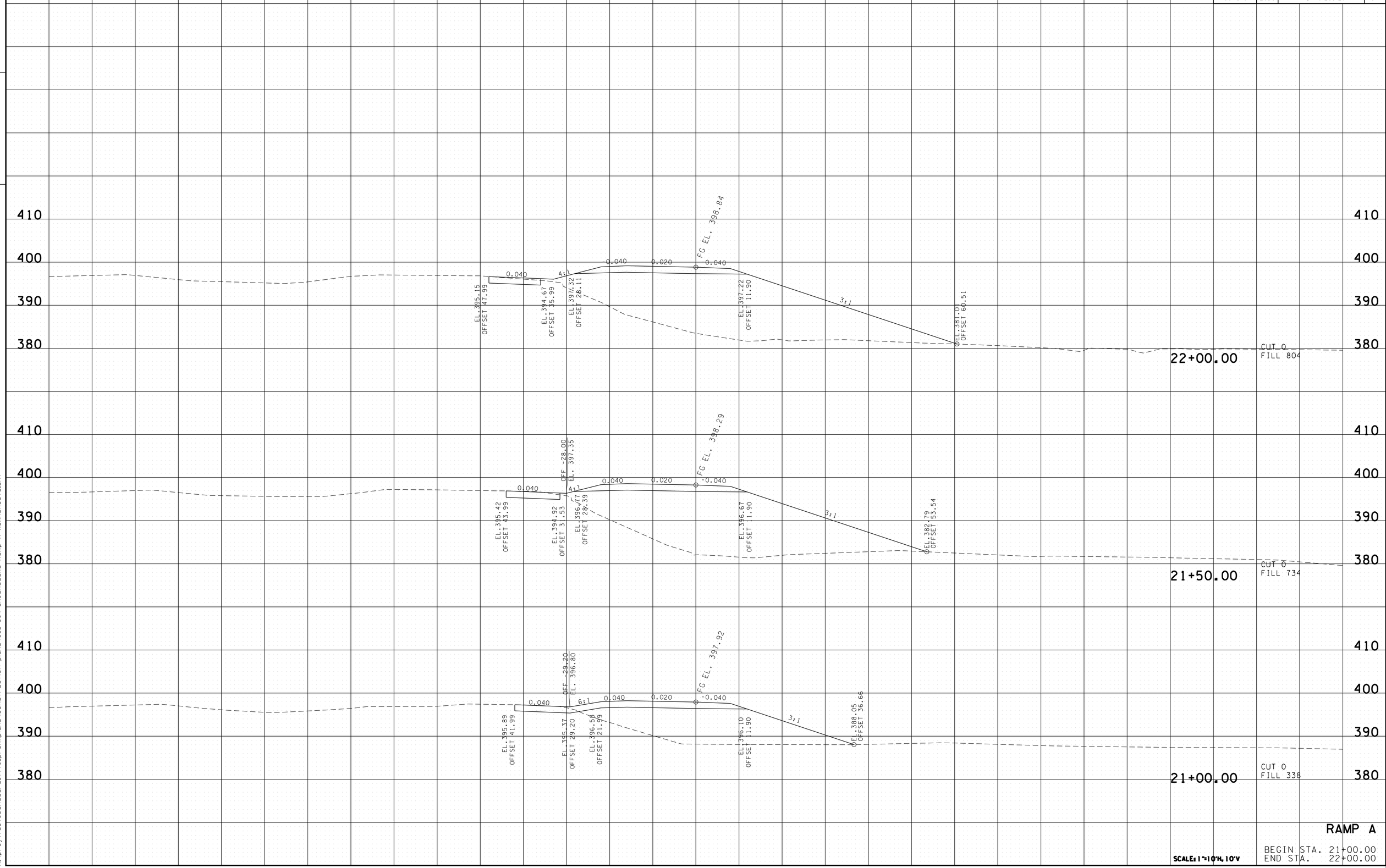
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	89
CONST.	2013	NH-I-40(283)20	87

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 21+00.00
END STA. 22+00.00

2/24/2014 2:45:16 PM
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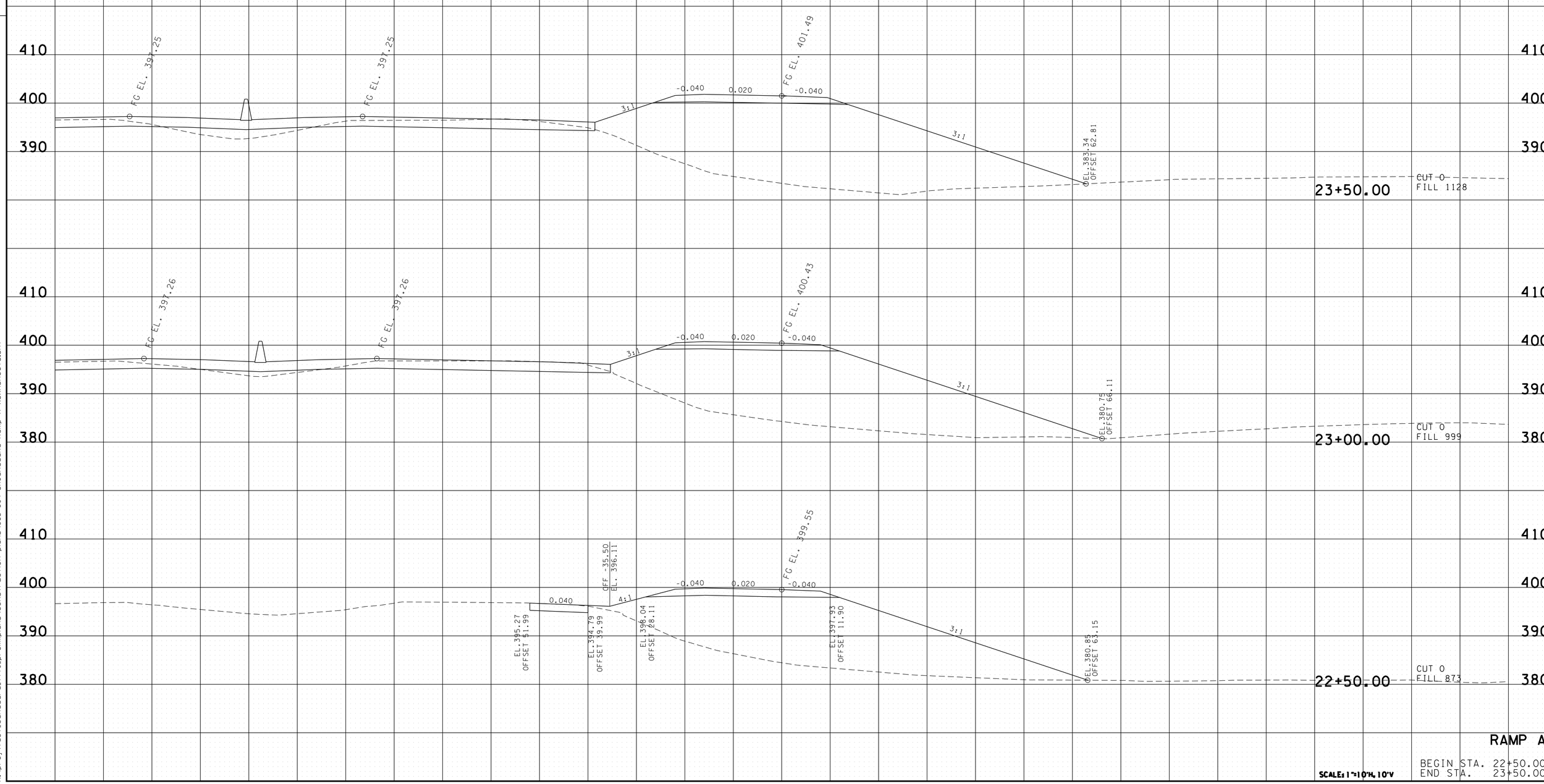
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	90
CONST.	2013	NH-I-40(283)20	88

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 22+50.00
END STA. 23+50.00

2/24/2014 2:45:20 PM
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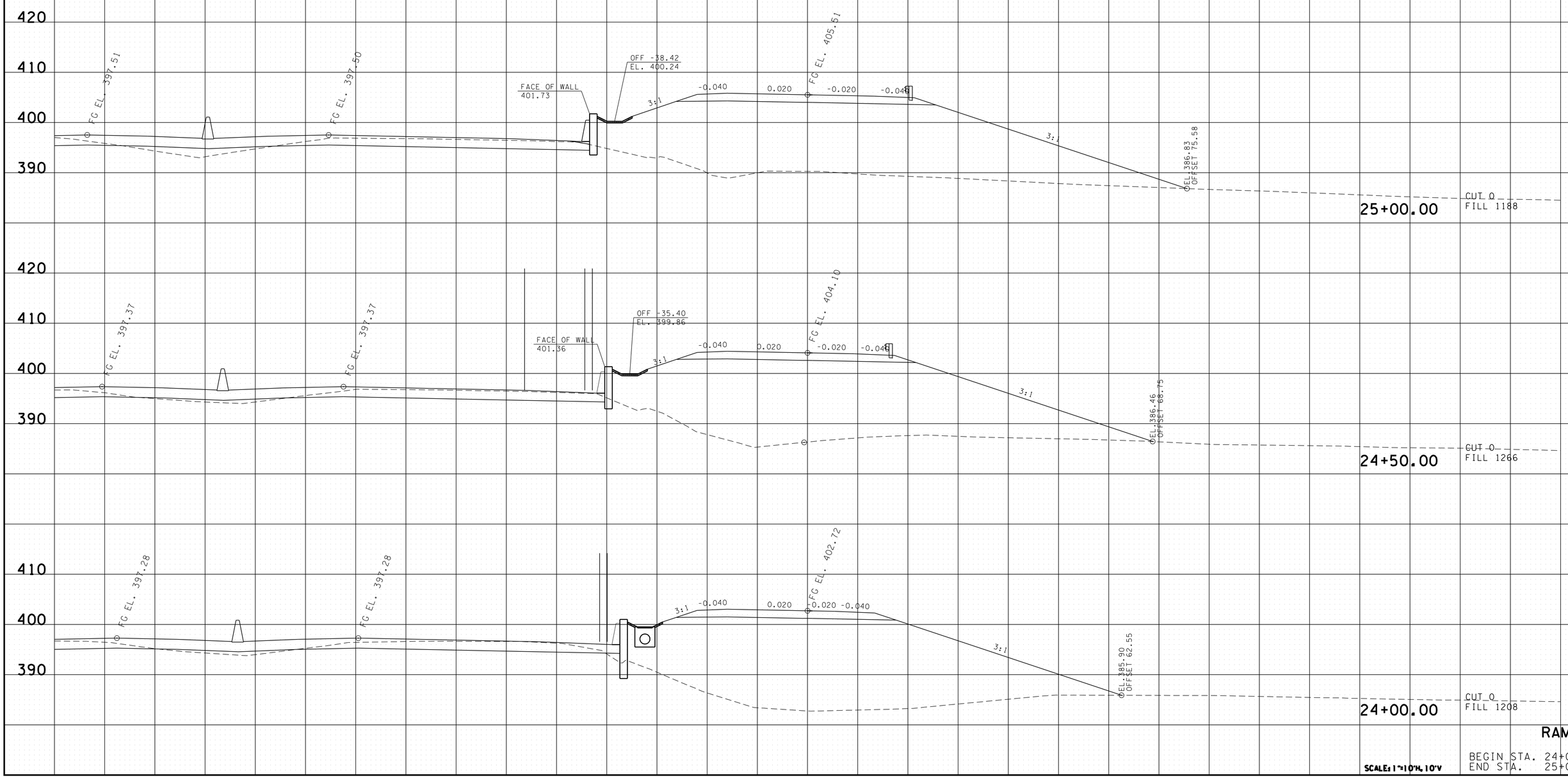
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	91
CONST.	2013	NH-I-40(283)20	89

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 24+00.00
END STA. 25+00.00

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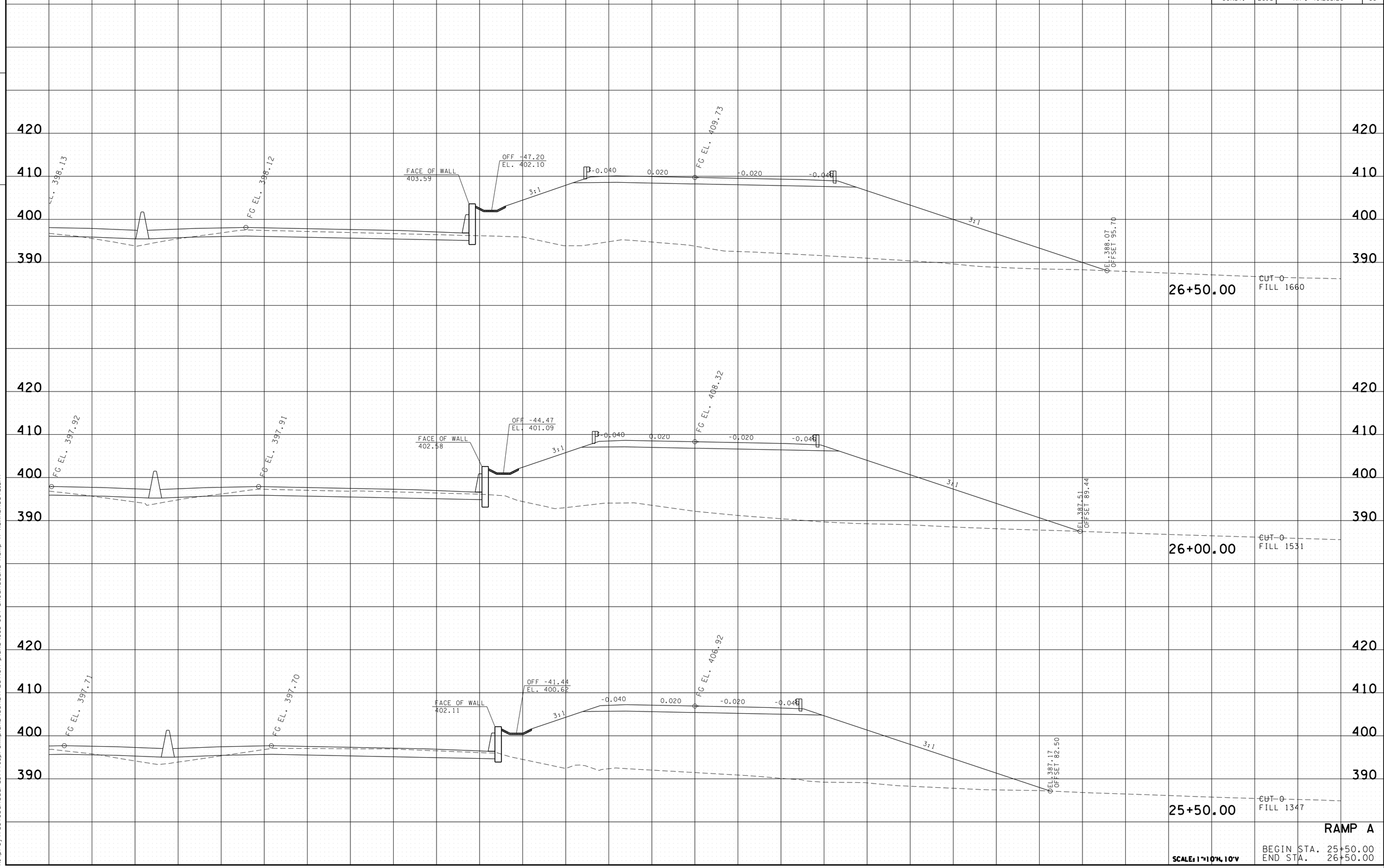
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	92
CONST.	2013	NH-I-40(283)20	90

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 25+50.00
END STA. 26+50.00

2/24/2014 2:45:29 PM
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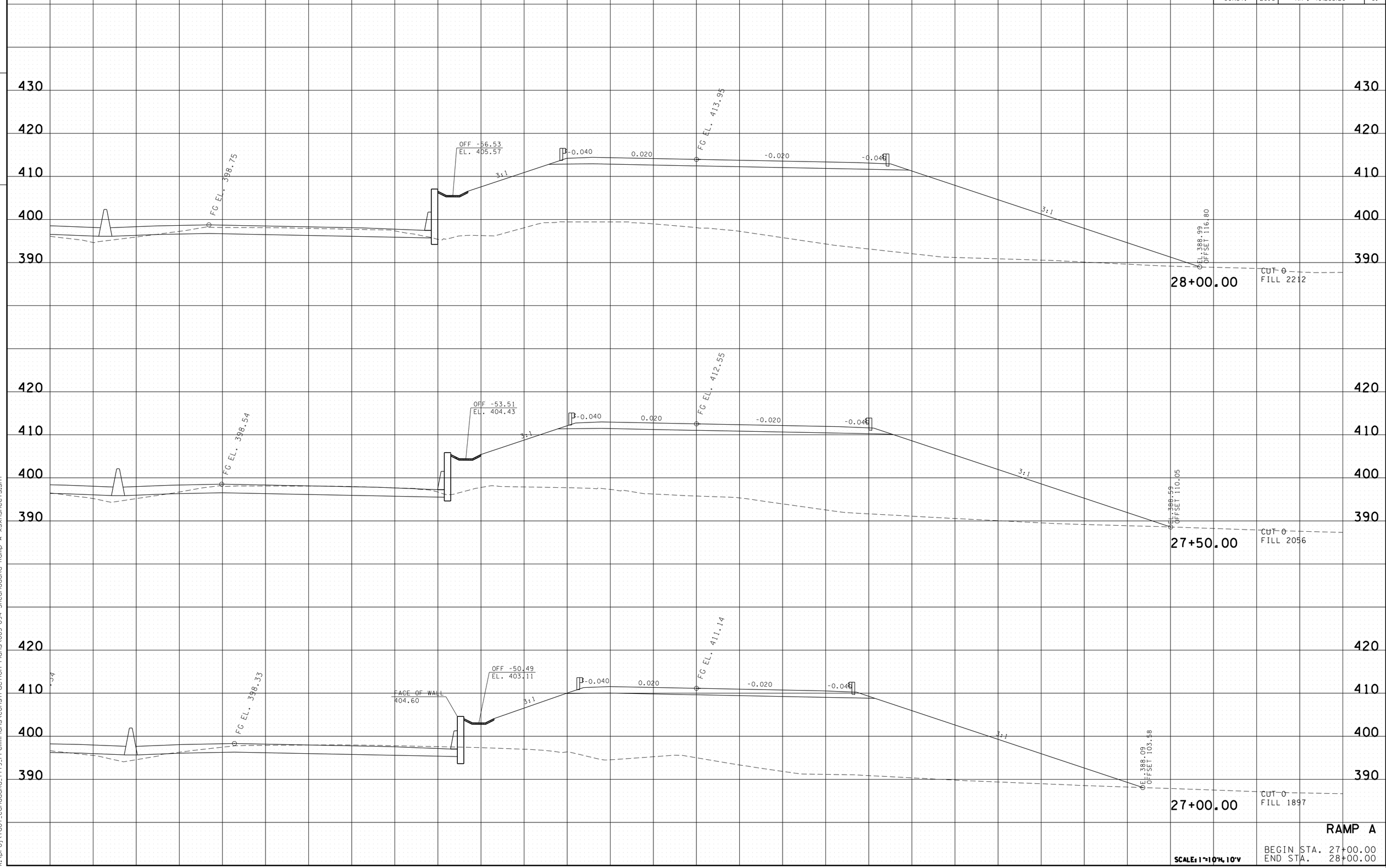
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	93
CONST.	2013	NH-I-40(283)20	91

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 27+00.00
END STA. 28+00.00

2/26/2014 3:15:31 PM
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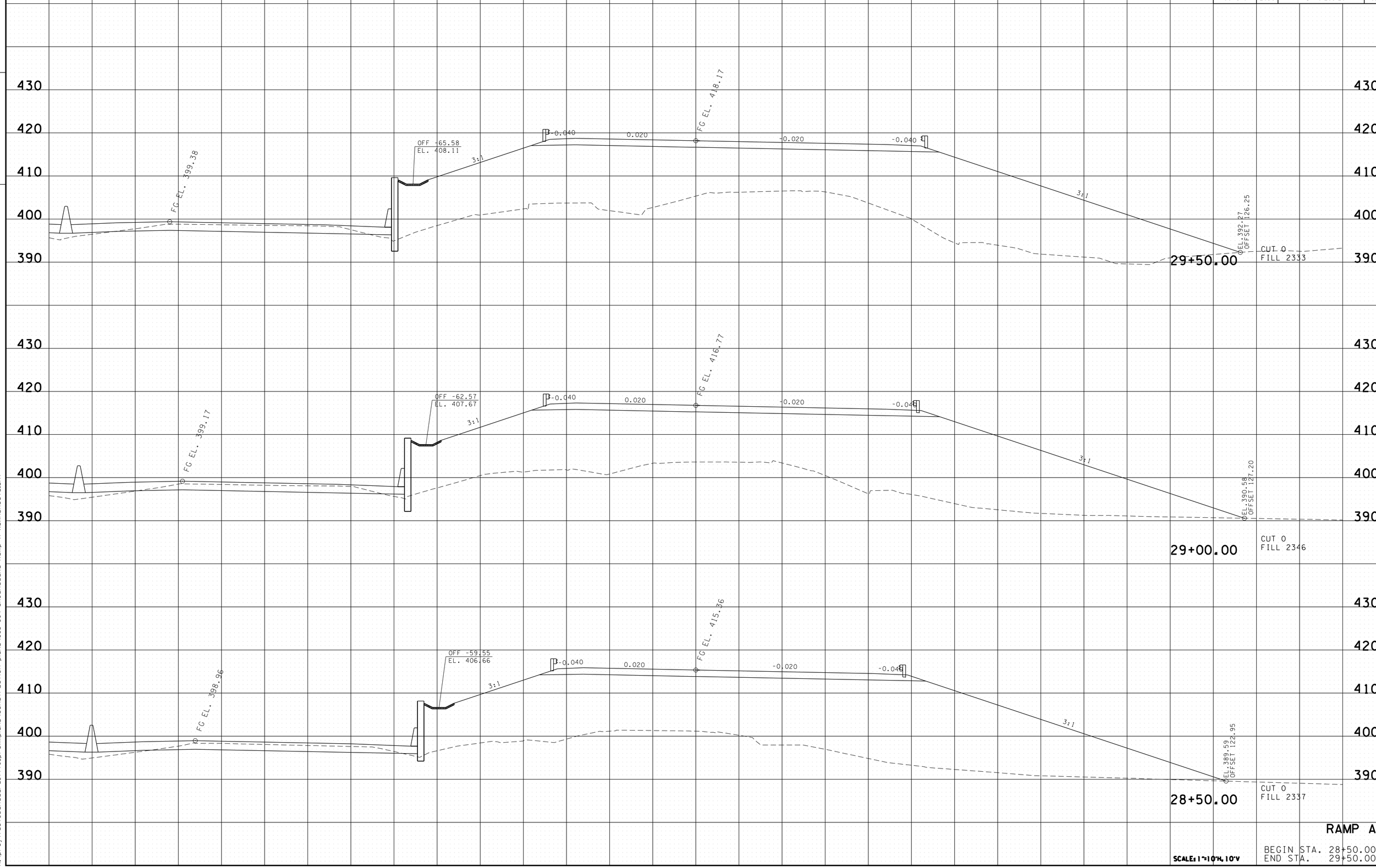
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	94
CONST.	2013	NH-I-40(283)20	92

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 28+50.00
END STA. 29+50.00

2/24/2014 2:45:38 PM
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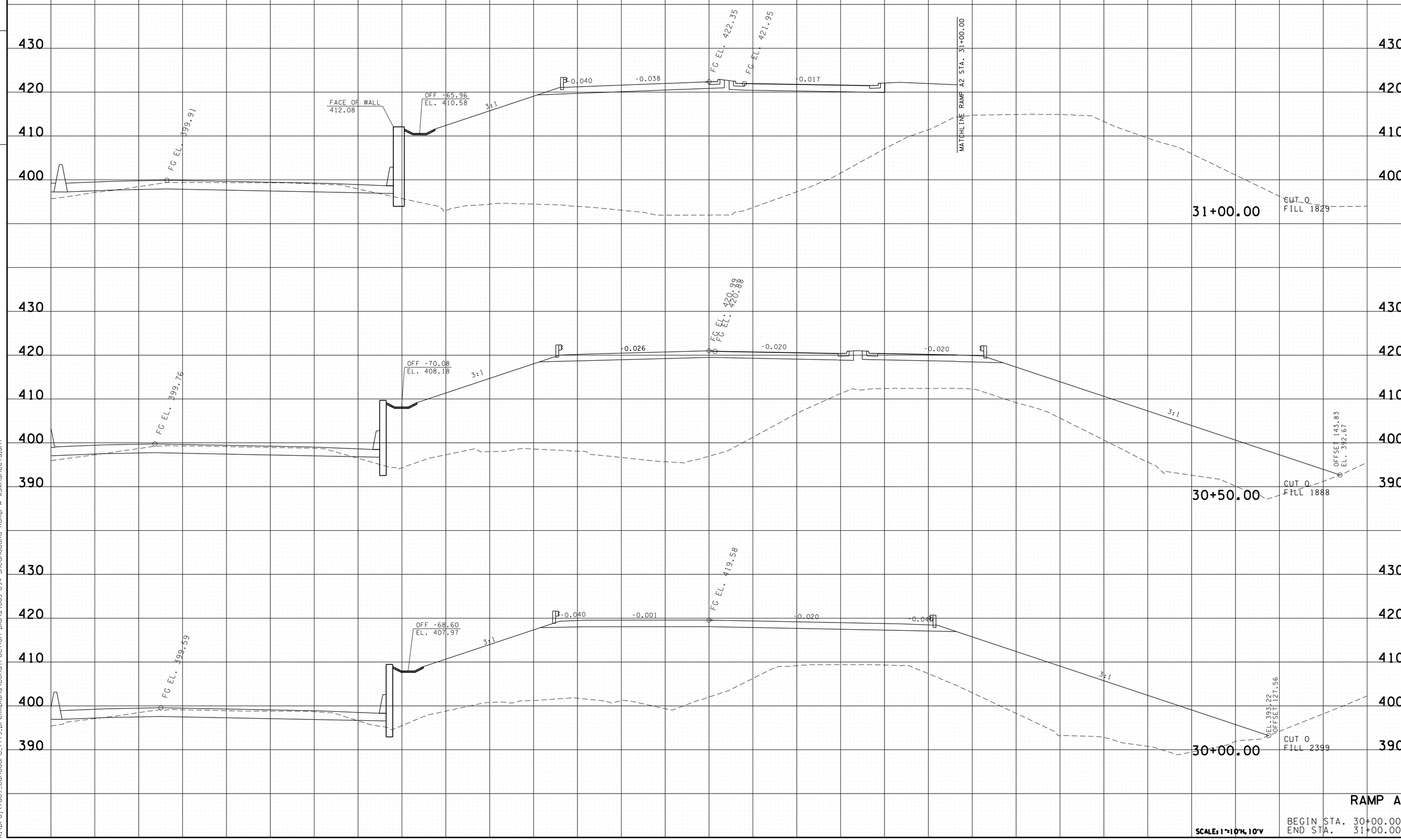
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	95
CONST.	2013	NH-I-40(283)20	93

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

BEGIN STA. 30+00.00
END STA. 31+00.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:45:42 PM
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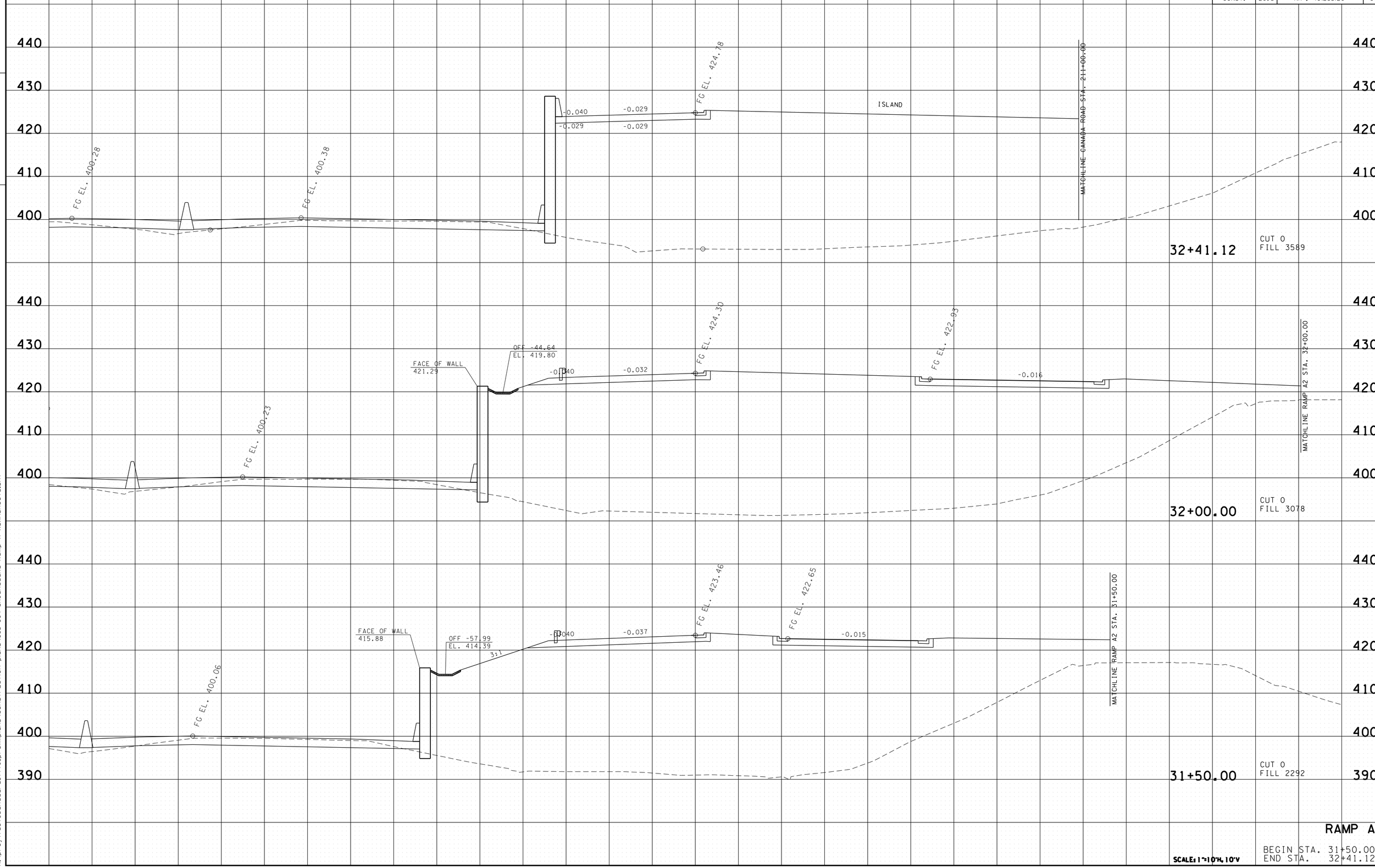
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	96
CONST.	2013	NH-I-40(283)20	94

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A

SCALE: 1"=10'H, 10'V

BEGIN STA. 31+50.00
END STA. 32+41.12

2/24/2014 2:45:47 PM
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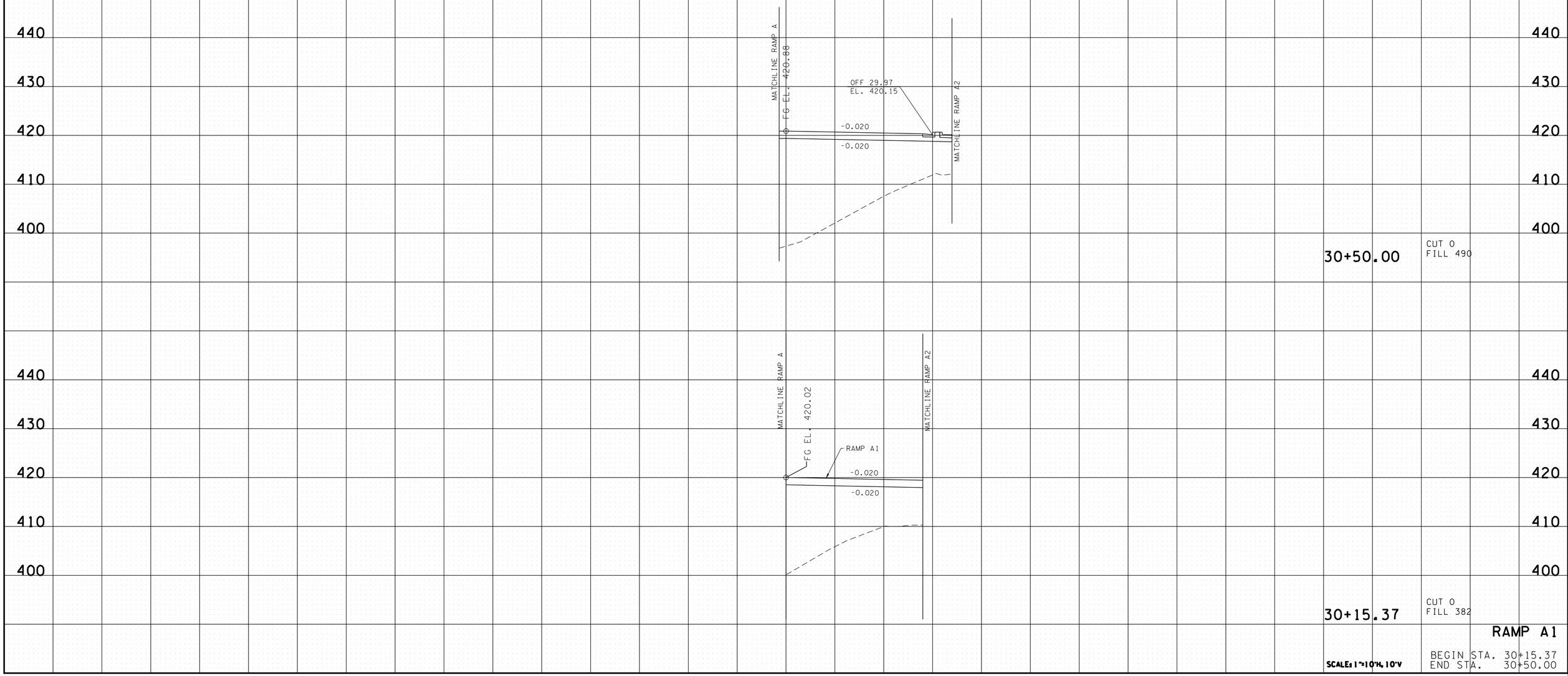
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	97
CONST.	2013	NH-I-40(283)20	95

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A1

SCALE: 1"=10'H, 10'V

BEGIN STA. 30+15.37
END STA. 30+50.00

2/24/2014 2:46:51 PM
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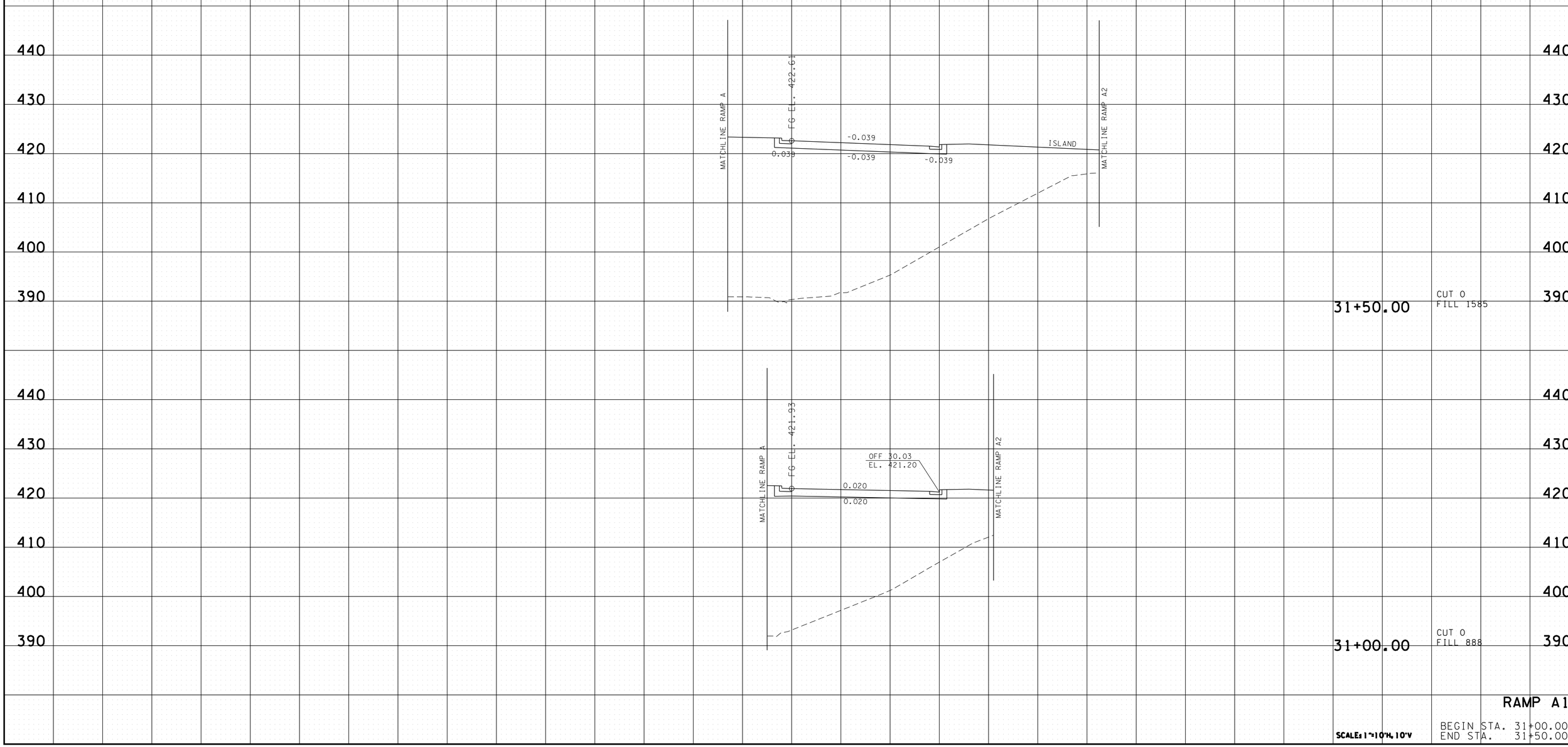
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	98
CONST.	2013	NH-I-40(283)20	96

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A1

SCALE: 1"=10'H, 10'V

BEGIN STA. 31+00.00
END STA. 31+50.00

2/24/2014 2:46:55 PM
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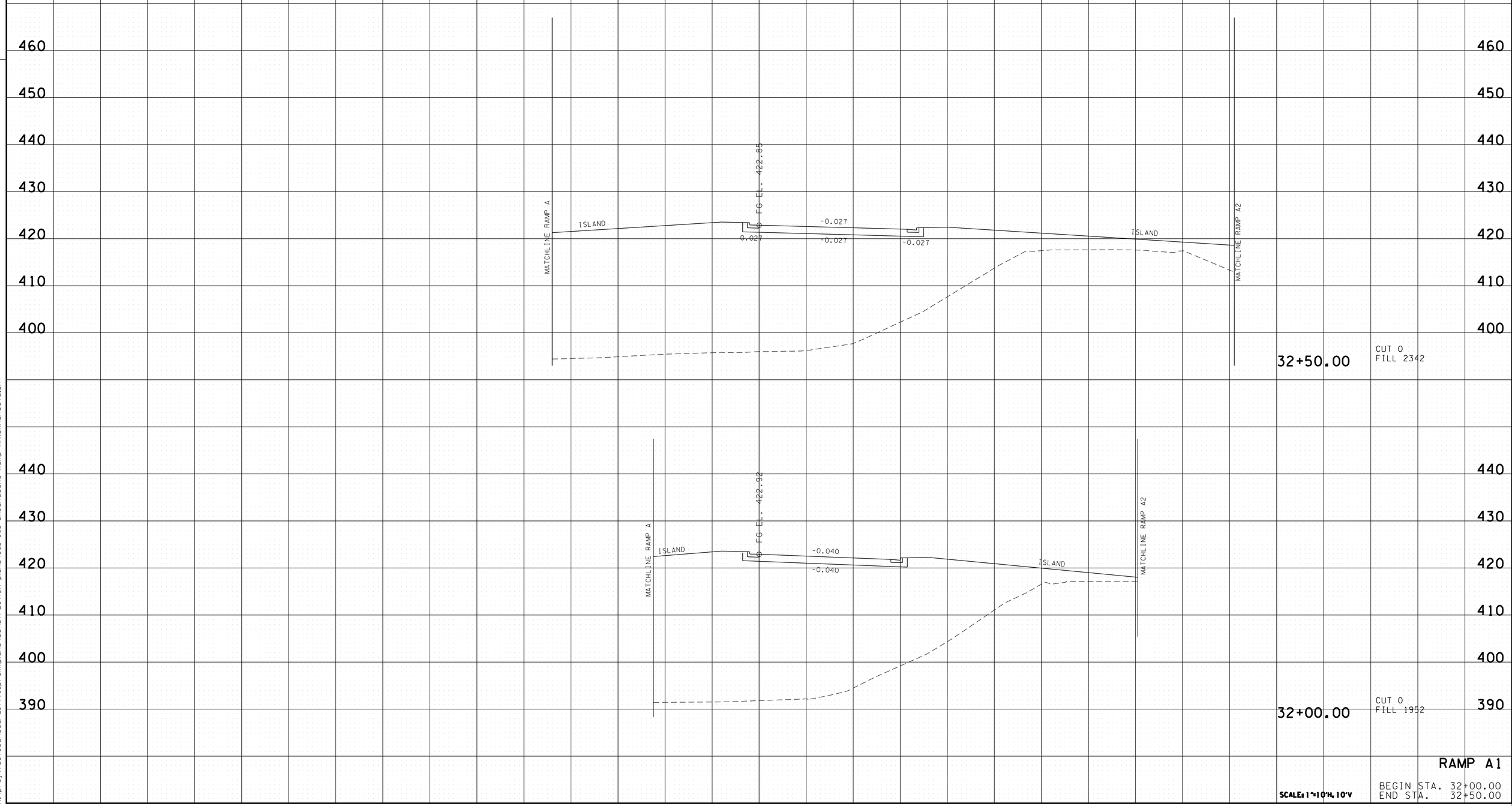
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	99
CONST.	2013	NH-I-40(283)20	97

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A1

SCALE: 1"=10'H, 10'V

BEGIN STA. 32+00.00
END STA. 32+50.00

2/24/2014 2:47:00 PM
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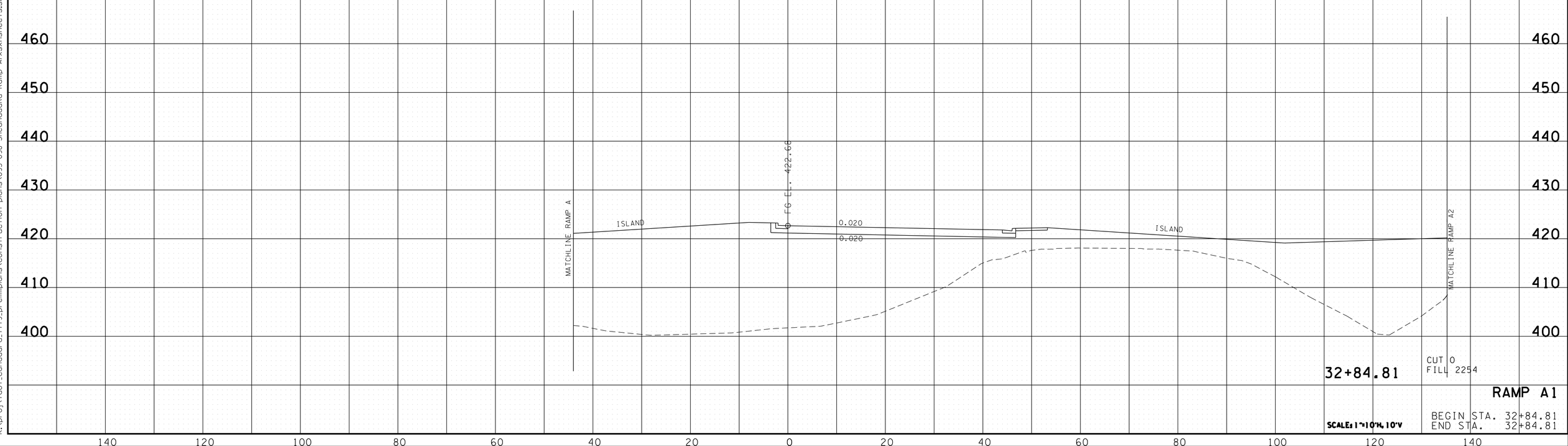
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	100
CONST.	2013	NH-I-40(283)20	98

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



32+84.81

CUT 0
FILL 2254

RAMP A1

SCALE: 1"=10'H, 10'V

BEGIN STA. 32+84.81
END STA. 32+84.81

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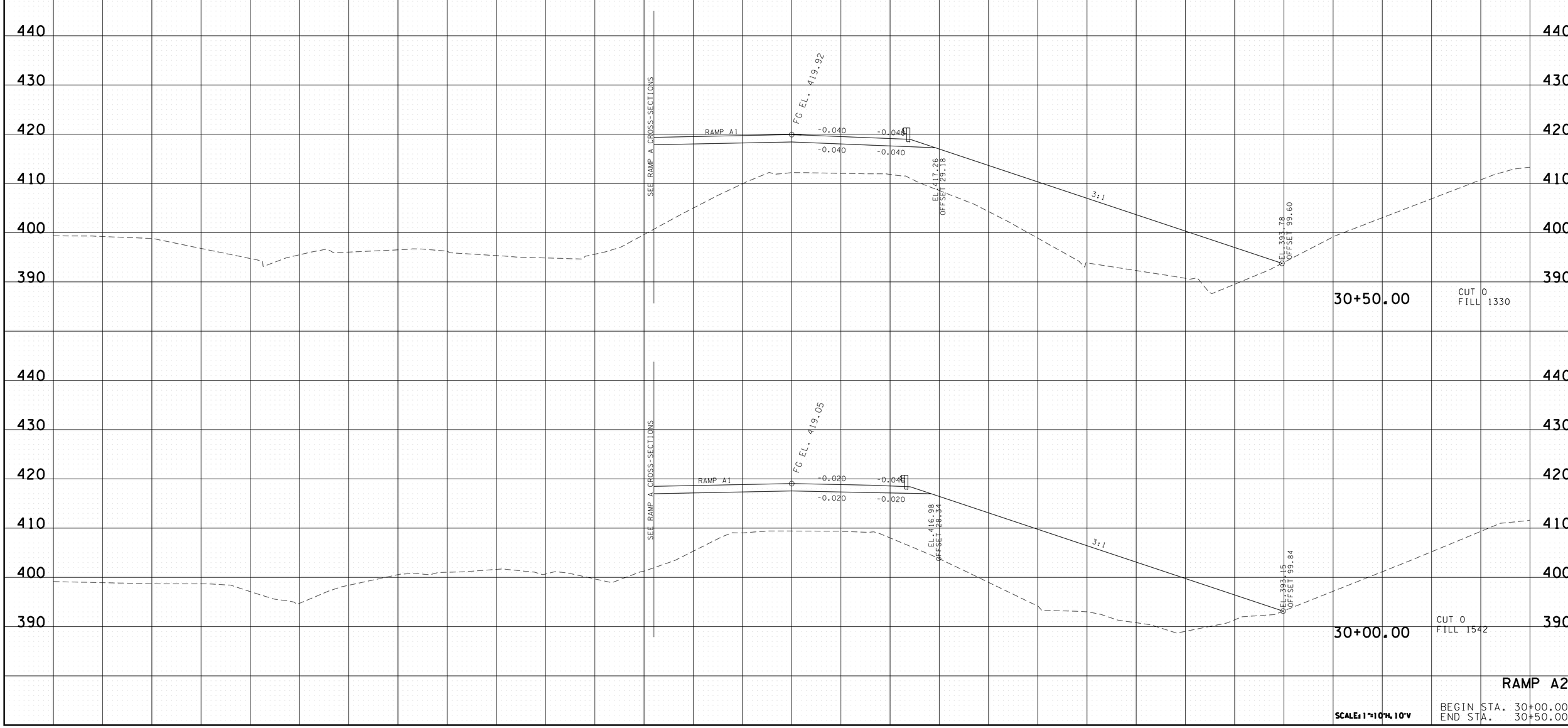
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	101
CONST.	2013	NH-I-40(283)20	99

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

SCALE: 1"=10'H, 10'V

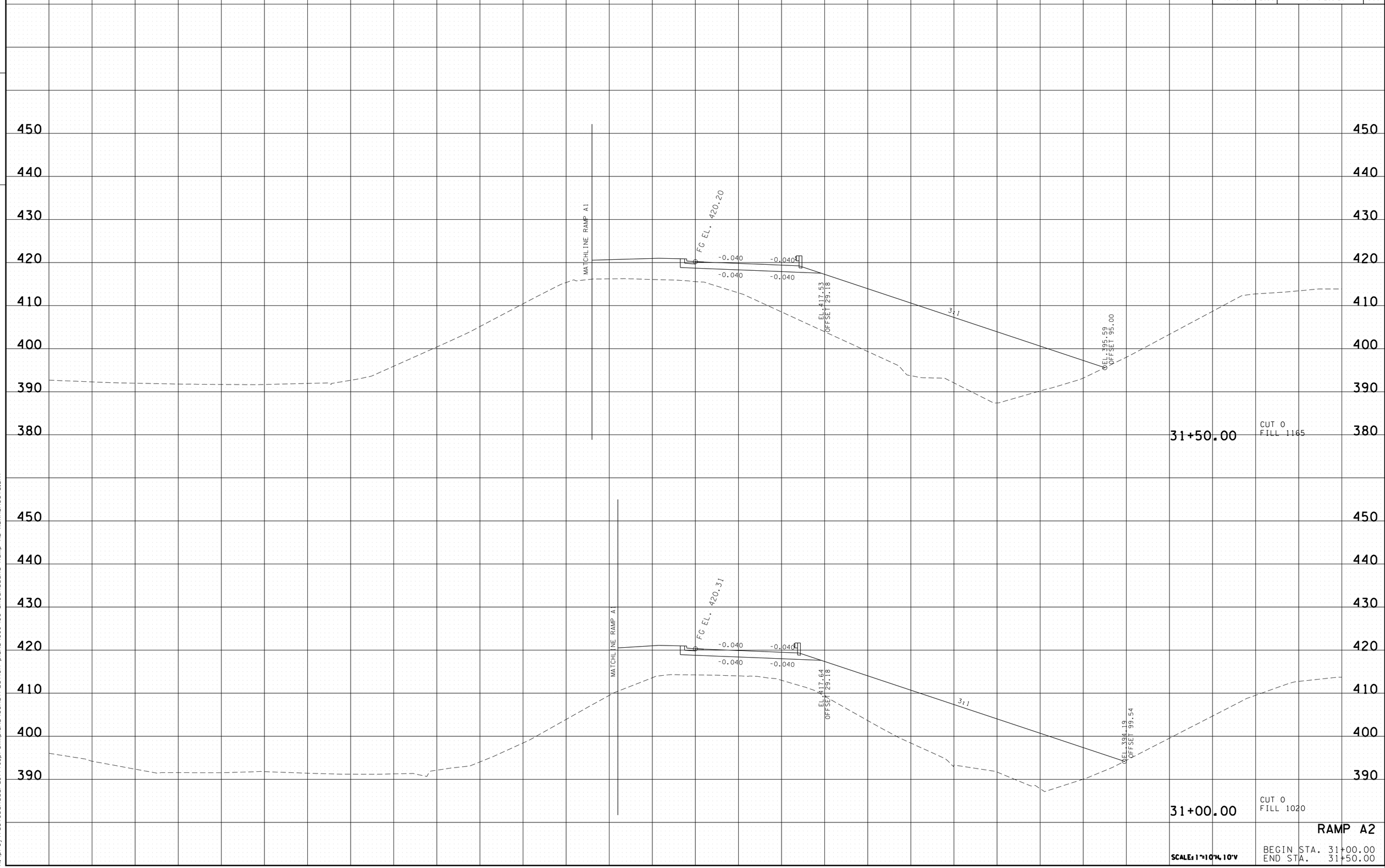
BEGIN STA. 30+00.00
END STA. 30+50.00

2/26/2014 3:13:28 PM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\099-106 SHCanadaRd Ramp A2 xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	102
CONST.	2013	NH-I-40(283)20	100

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

SCALE: 1"=10'H, 10'V

BEGIN STA. 31+00.00
END STA. 31+50.00

2/24/2014 2:47:13 PM
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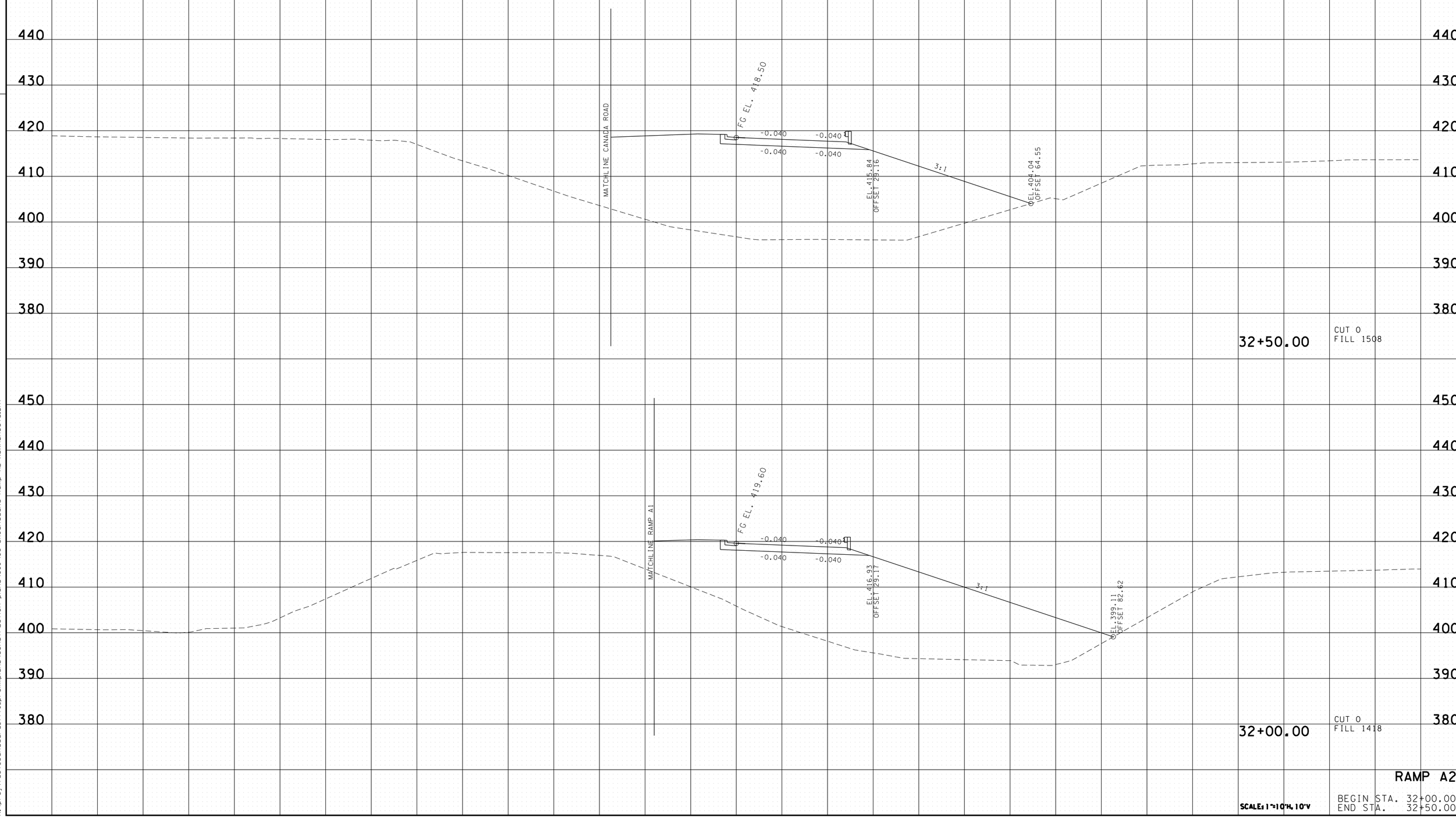
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	103
CONST.	2013	NH-I-40(283)20	101

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

SCALE: 1"=10'H, 10'V

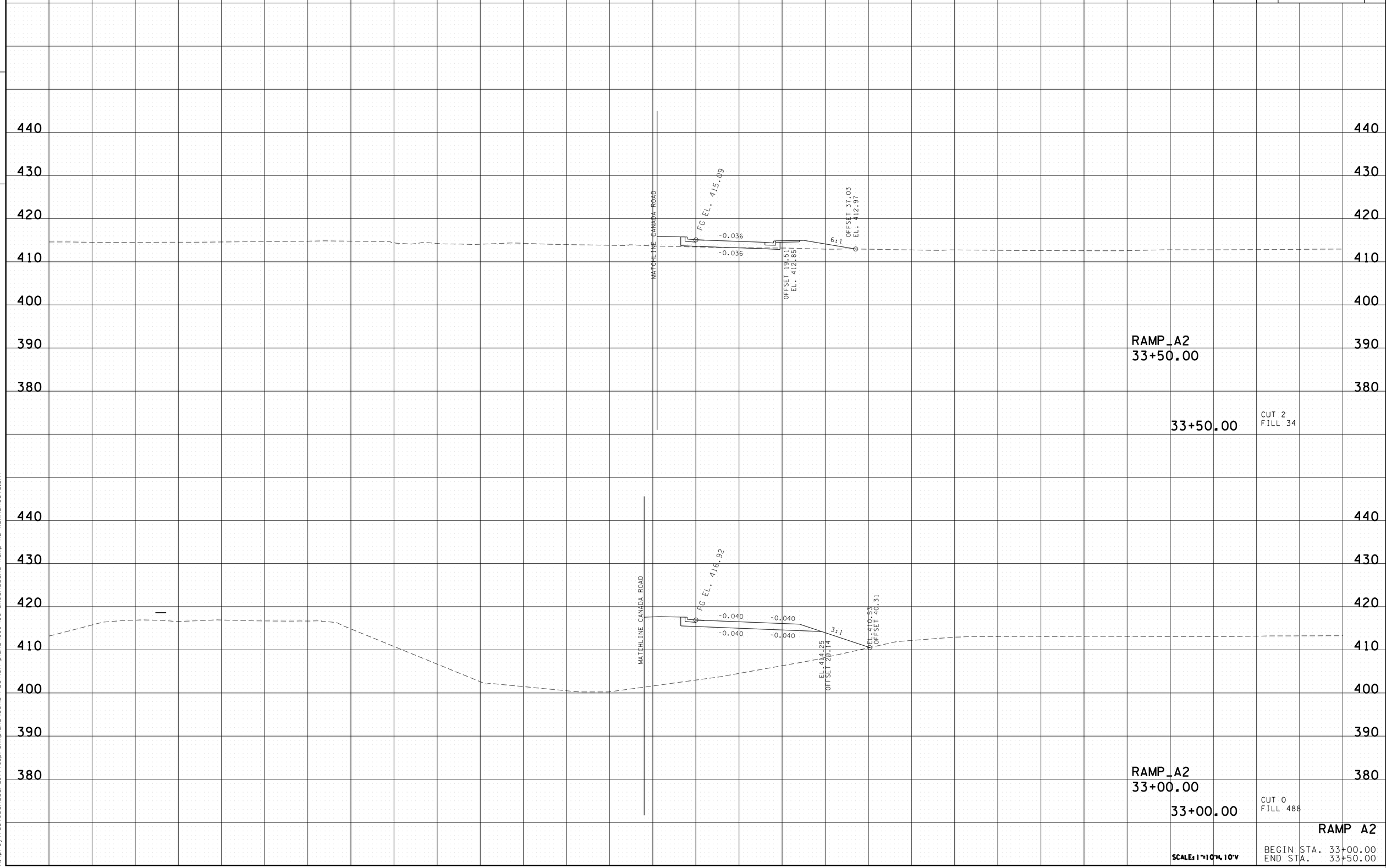
BEGIN STA. 32+00.00
END STA. 32+50.00

2/24/2014 2:47:17 PM
K:\proj\tdot_canadard_7779_prelimplans\construction plans\099-106 SHCanadaRd Ramp A2 xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	104
CONST.	2013	NH-I-40(283)20	102

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

SCALE: 1"=10'H, 10'V

BEGIN STA. 33+00.00
END STA. 33+50.00

2/24/2014 2:47:21PM
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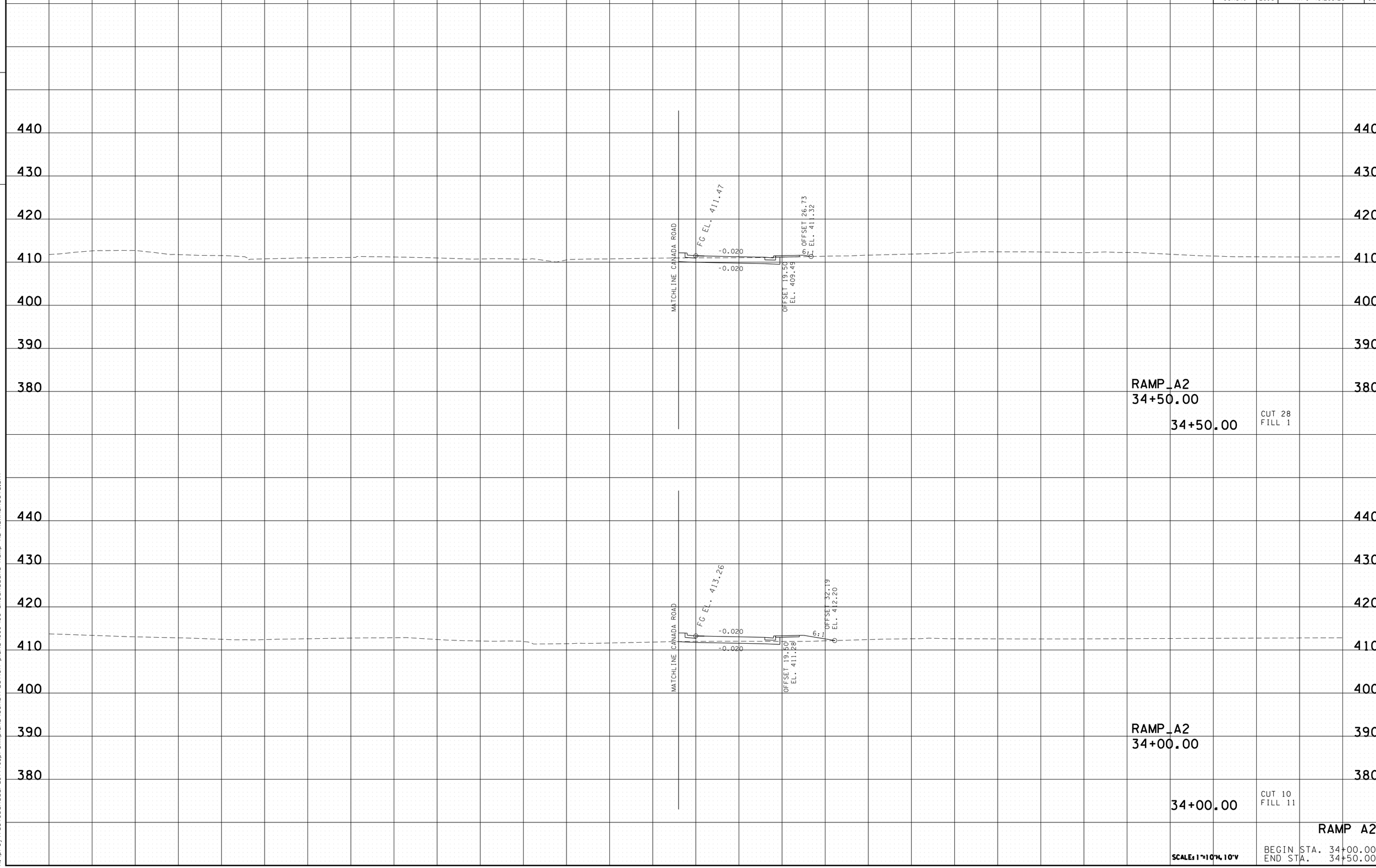
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	105
CONST.	2013	NH-I-40(283)20	103

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP A2

SCALE: 1"=10'H, 10'V

BEGIN STA. 34+00.00
END STA. 34+50.00

2/24/2014 2:47:26 PM
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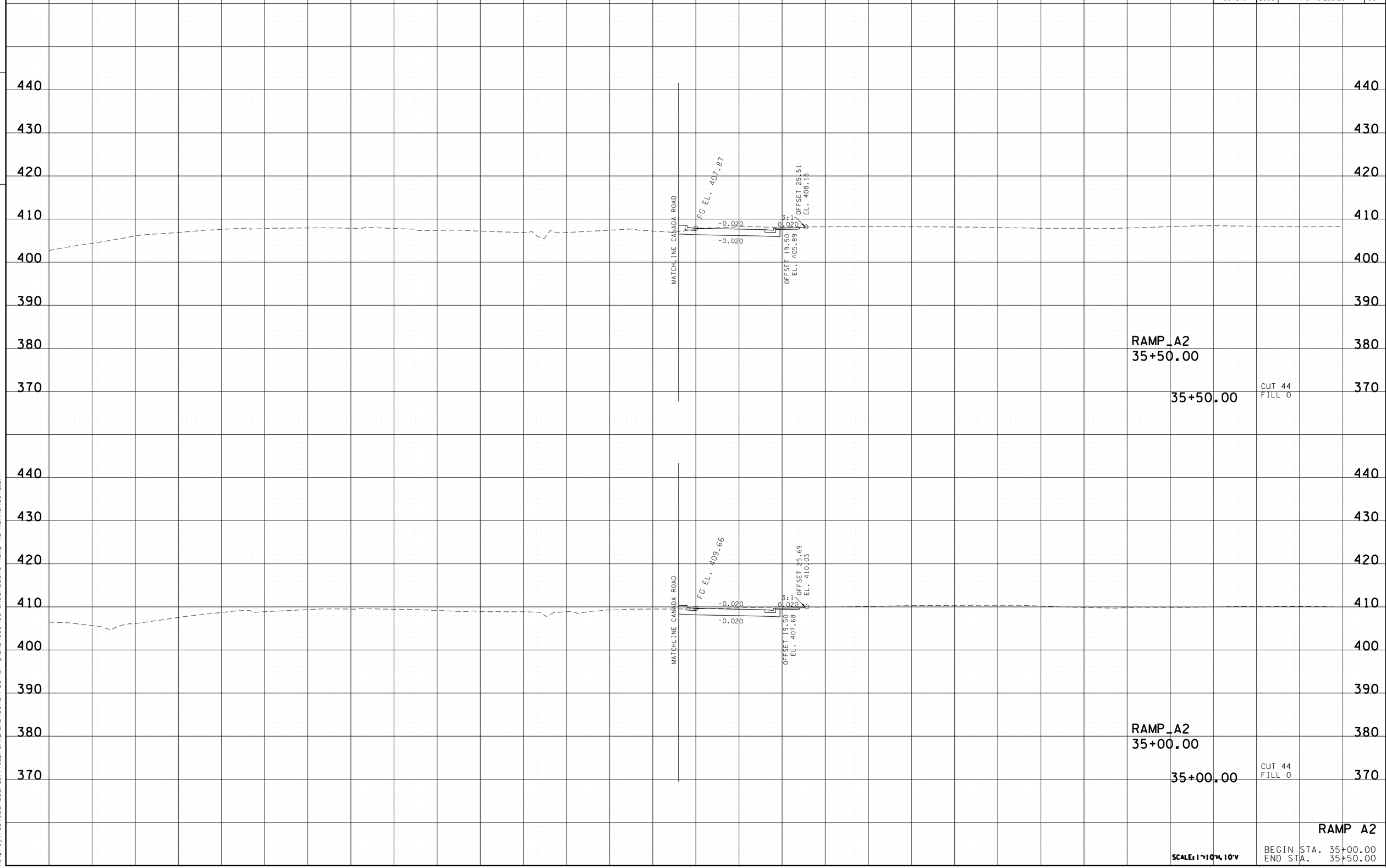
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	106
CONST.	2013	NH-I-40(283)20	104

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

SCALE: 1"=10'H, 10'V

BEGIN STA. 35+00.00
END STA. 35+50.00

2/24/2014 2:47:30 PM
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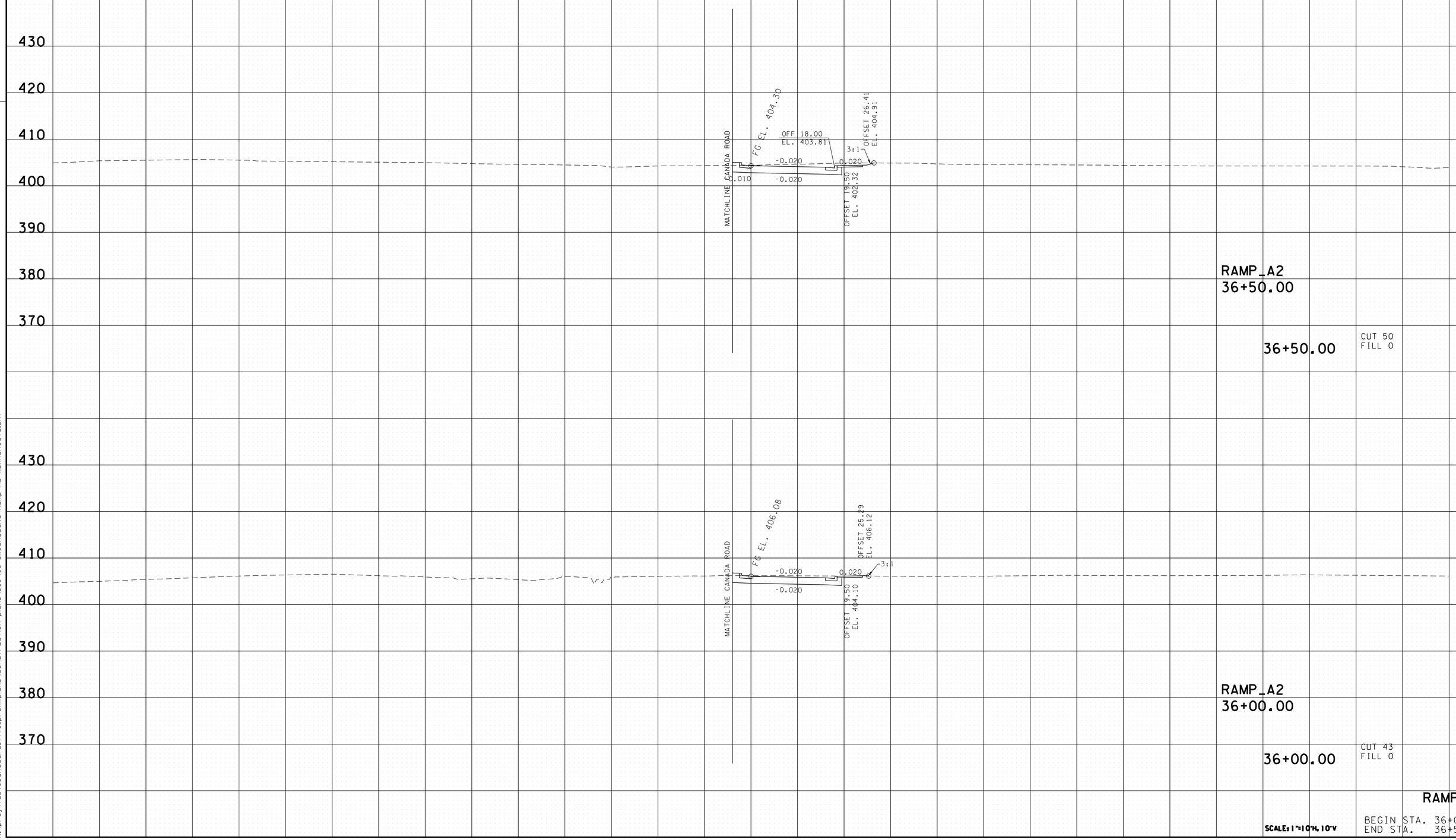
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	107
CONST.	2013	NH-I-40(283)20	105

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

BEGIN STA. 36+00.00
END STA. 36+50.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:47:34 PM
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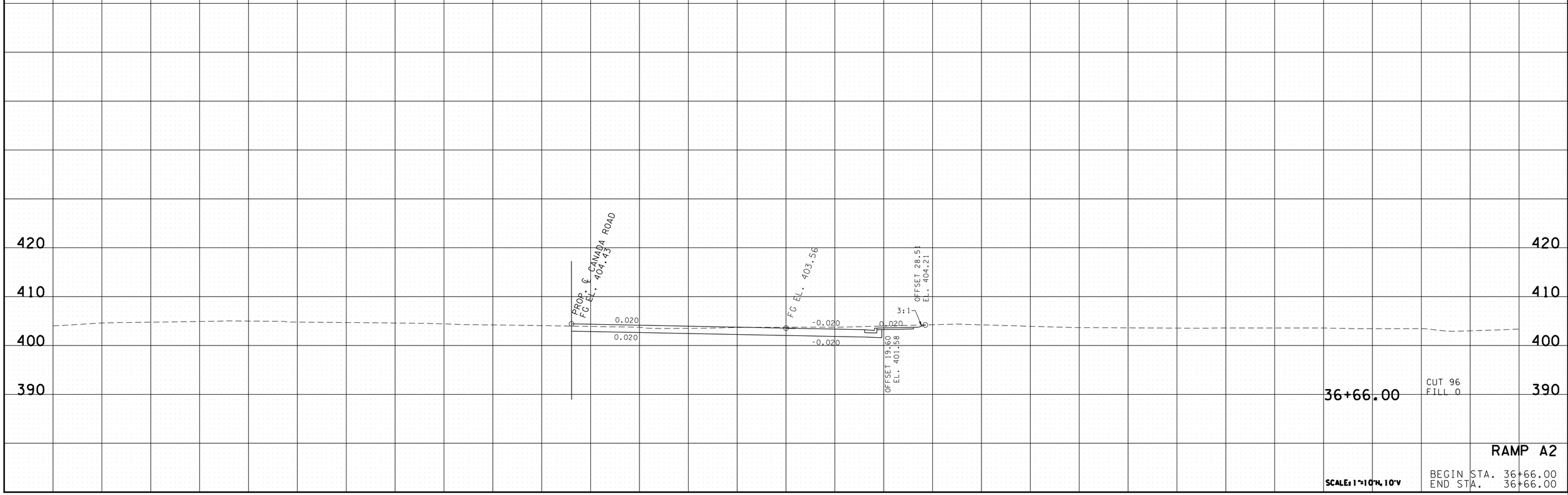
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	108
CONST.	2013	NH-I-40(283)20	106

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP A2

SCALE: 1"=10'H, 10'V

BEGIN STA. 36+66.00
END STA. 36+66.00

2/24/2014 2:47:38 PM
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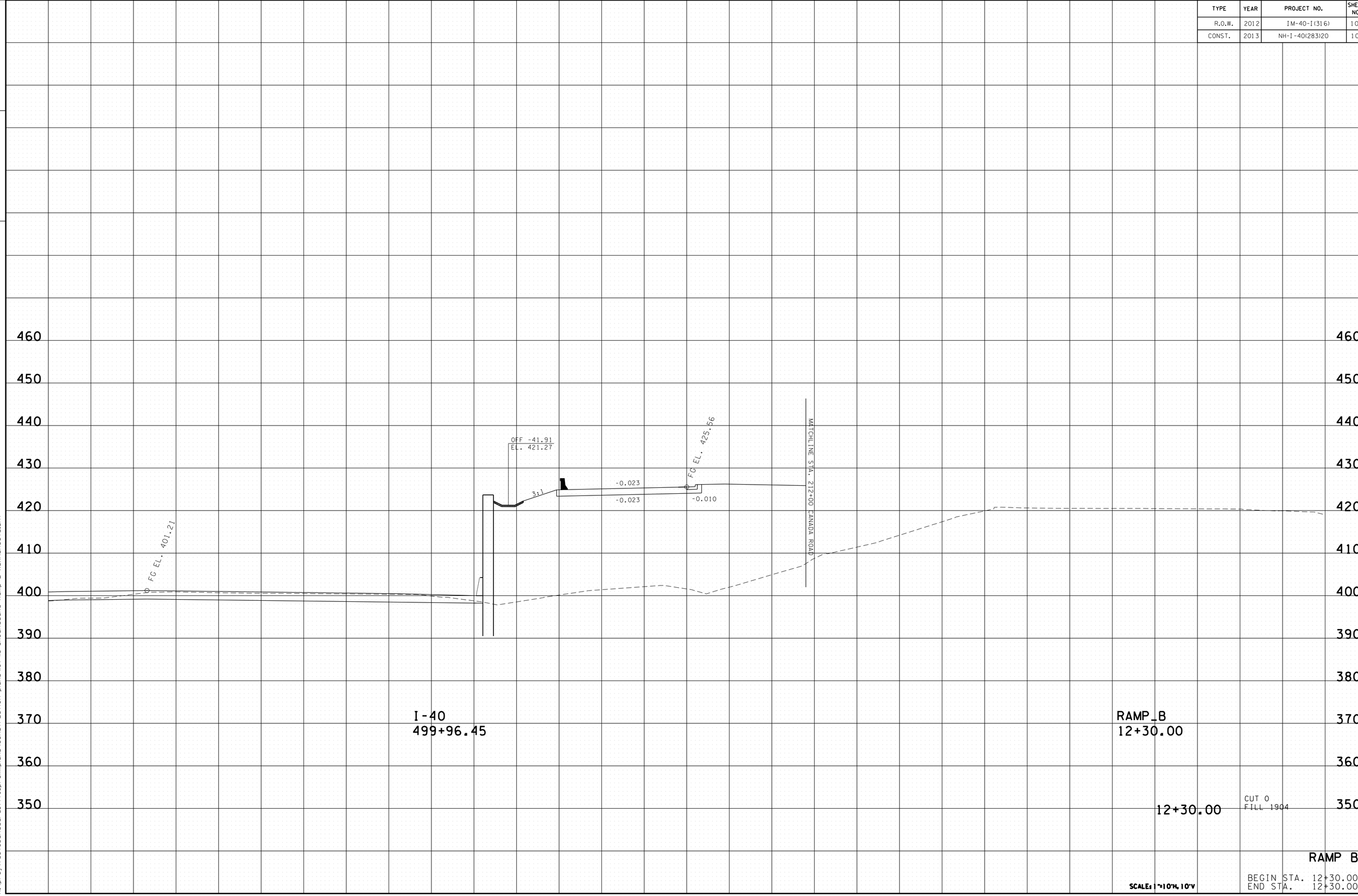
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	109
CONST.	2013	NH-I-40(283)20	107



RAMP B

BEGIN STA. 12+30.00
END STA. 12+30.00

SCALE: 1"=10'H, 10'V

TENNESSEE D.O.T.
DESIGN DIVISION

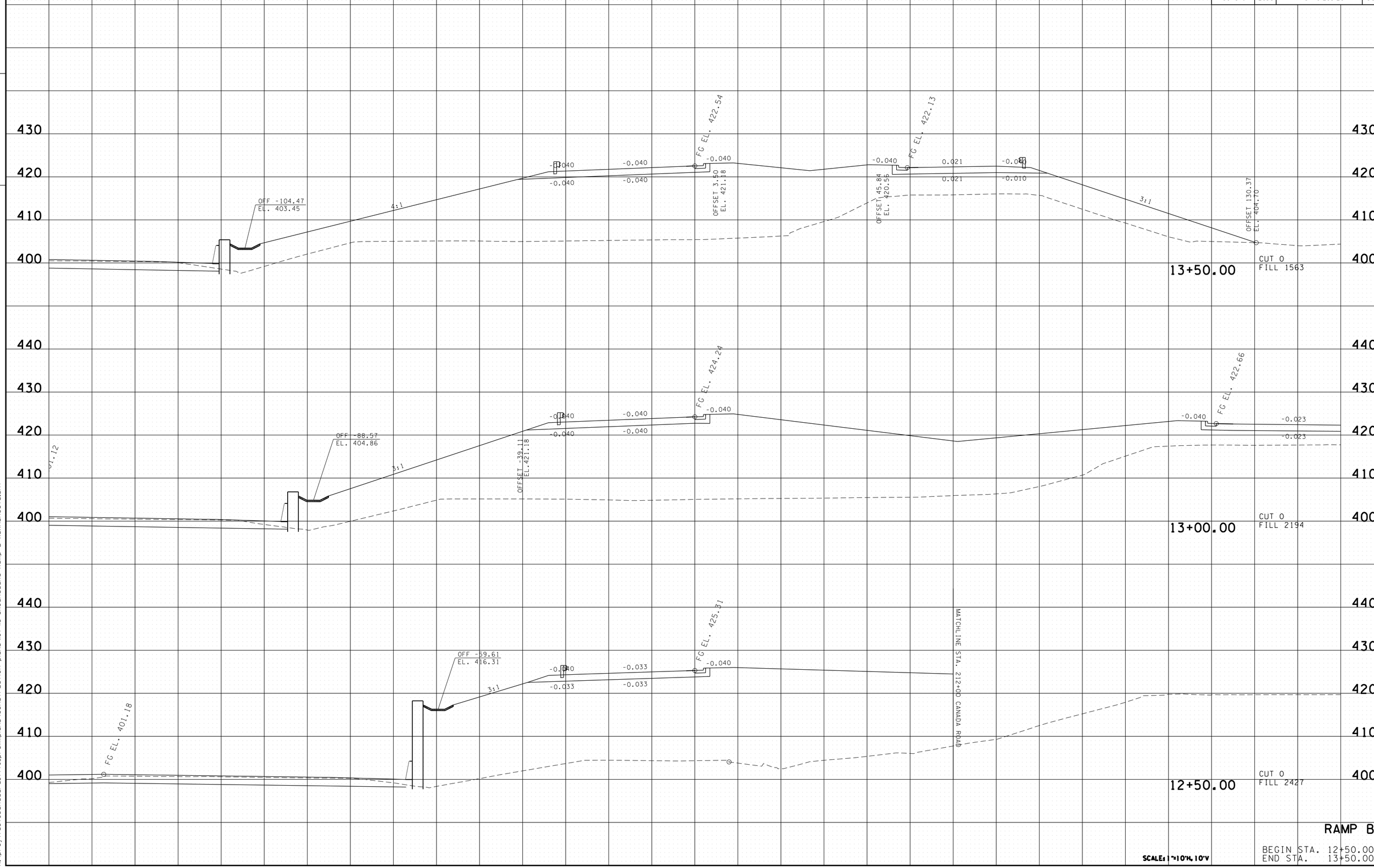
FILE NO.

2/24/2014 2:47:43 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\107-113 SHCanadaRd Ramp B xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	110
CONST.	2013	NH-I-40(283)20	108

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

SCALE: 1"=10'H, 10'V

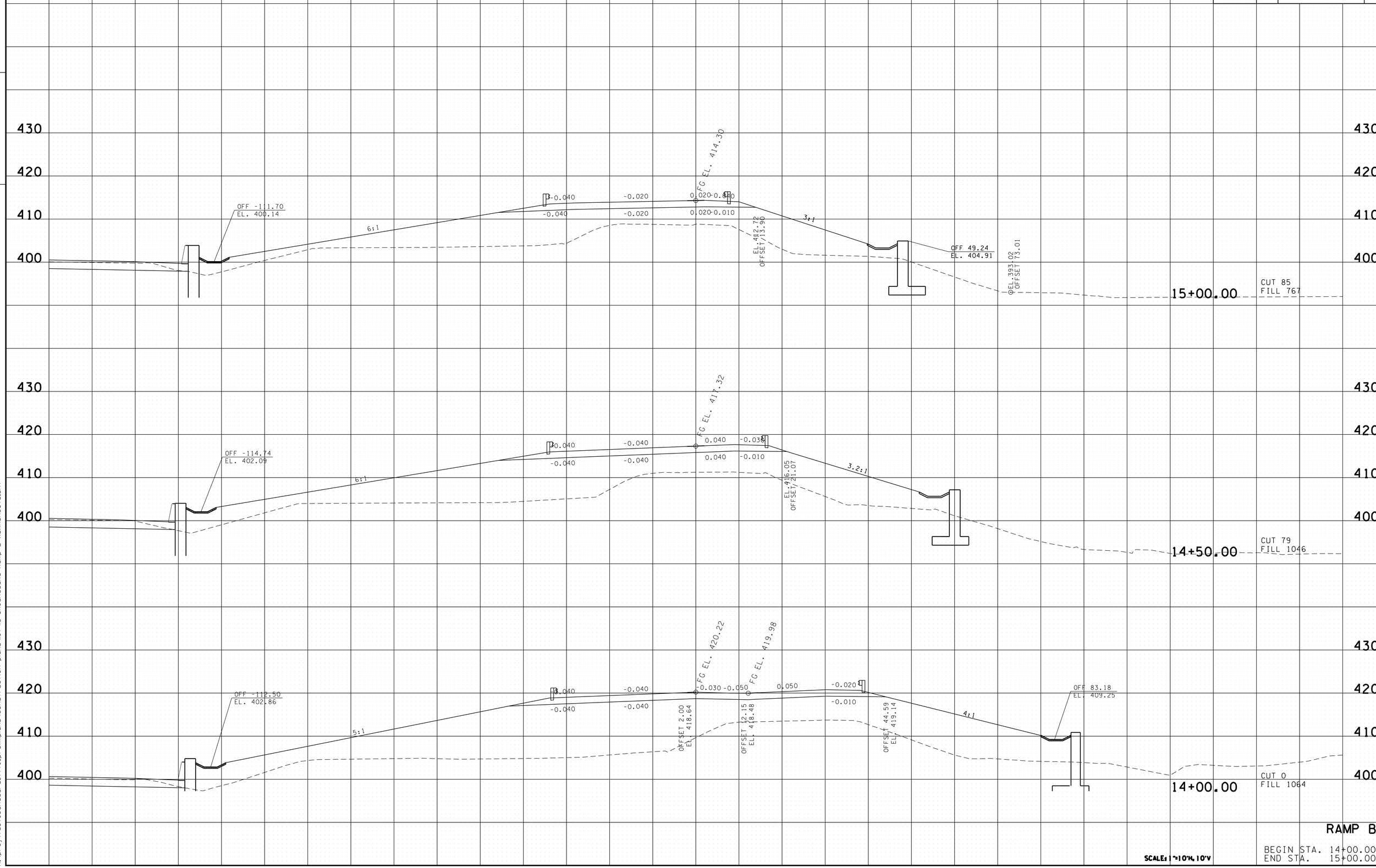
BEGIN STA. 12+50.00
END STA. 13+50.00

2/24/2014 2:47:48 PM
k:\proj\tdot_canadard_7779_preliminplans\construction plans\107-113 SHCanadaRd Ramp B xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	111
CONST.	2013	NH-I-40(283)20	109

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

SCALE: 1"=10'H, 10'V

BEGIN STA. 14+00.00
END STA. 15+00.00

2/24/2014 2:47:52 PM
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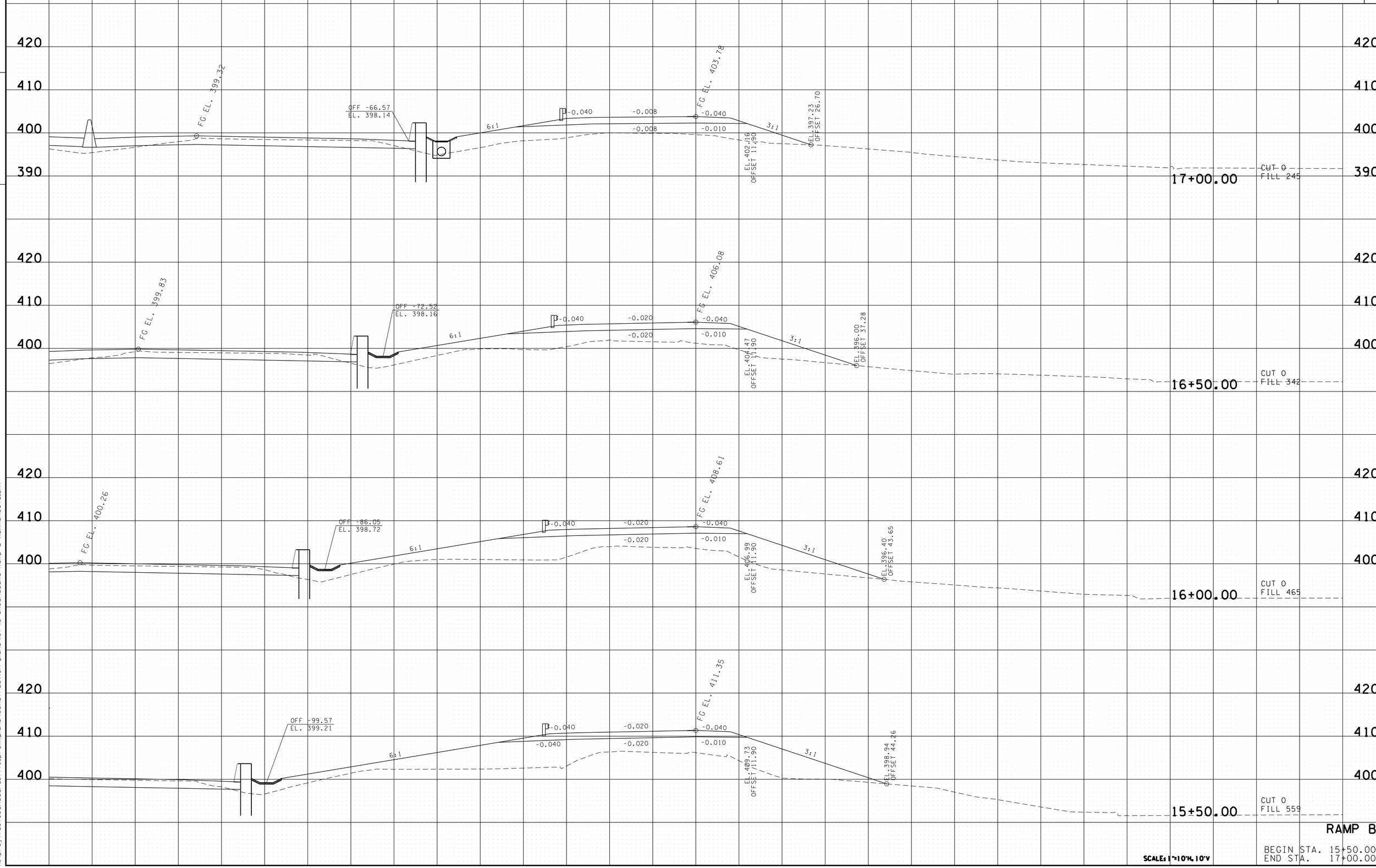
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	112
CONST.	2013	NH-I-40(283)20	110

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

SCALE: 1"=10'H, 10'V

BEGIN STA. 15+50.00
END STA. 17+00.00

2/24/2014 2:47:57 PM
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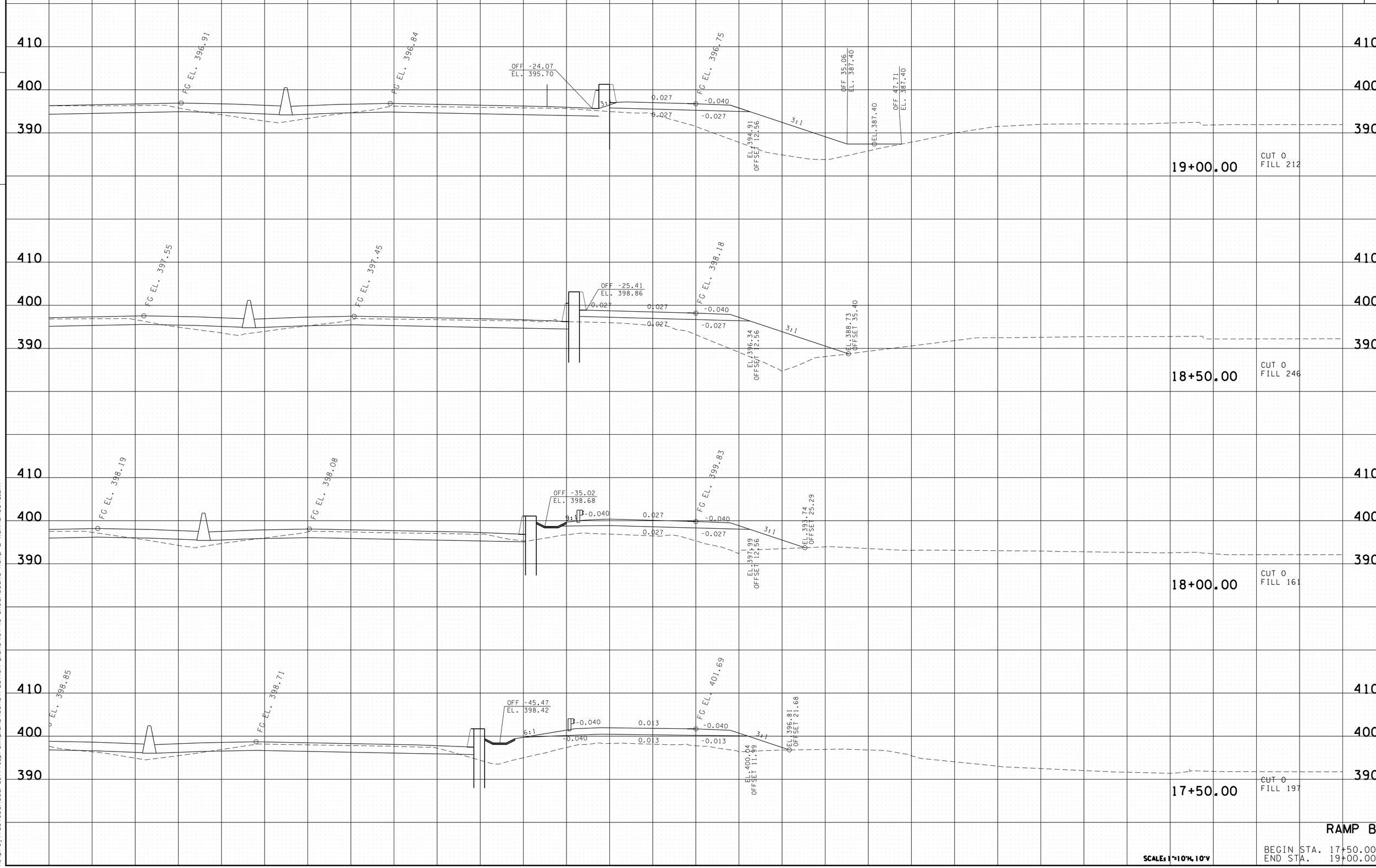
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	113
CONST.	2013	NH-I-40(283)20	111

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

BEGIN STA. 17+50.00
END STA. 19+00.00

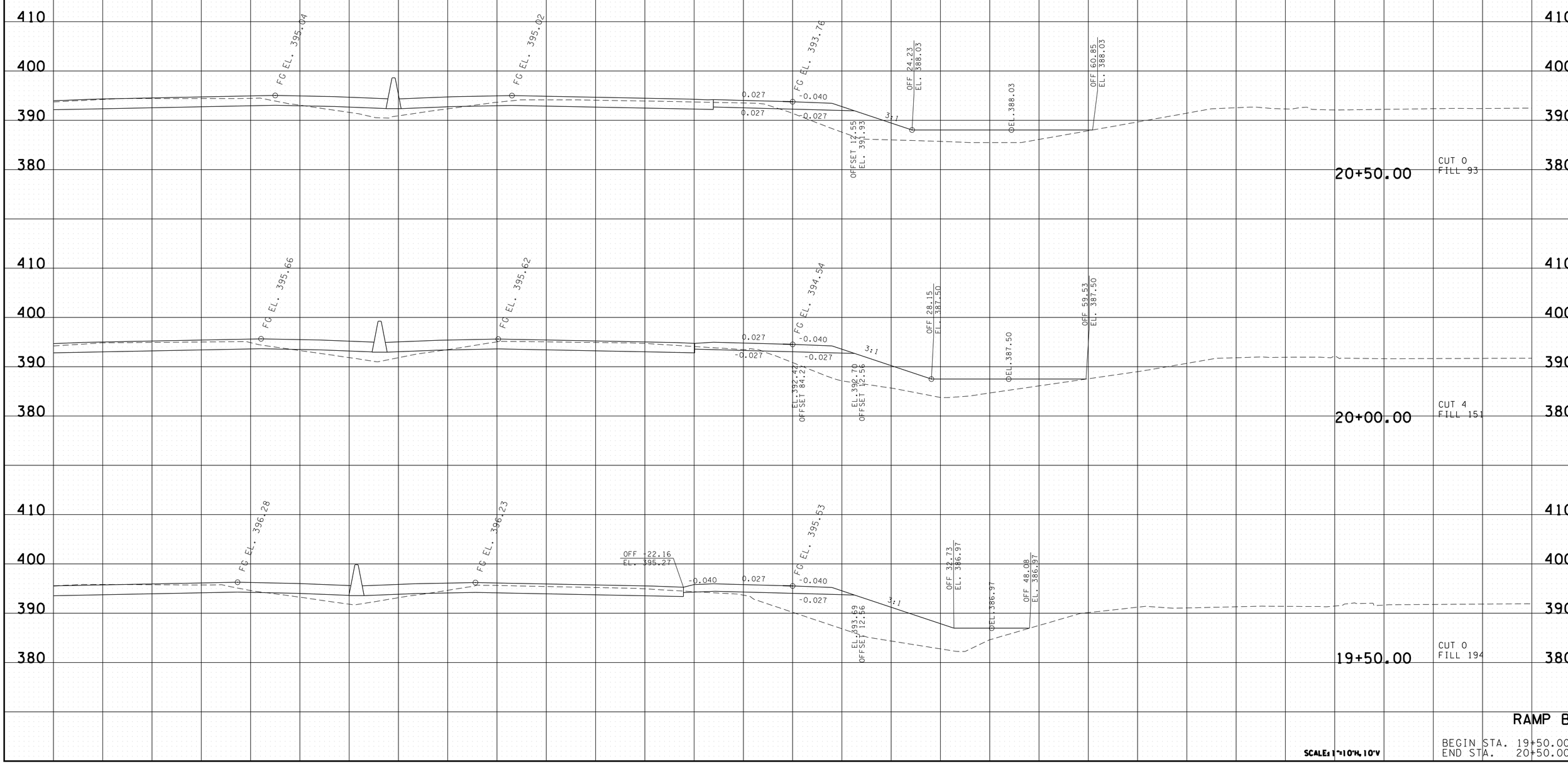
SCALE: 1"=10'H, 10'V

2/24/2014 2:48:01PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\107-113 SHCanadaRd Ramp B xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	114
CONST.	2013	NH-I-40(283)20	112

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP B

SCALE: 1"=10'H, 10'V

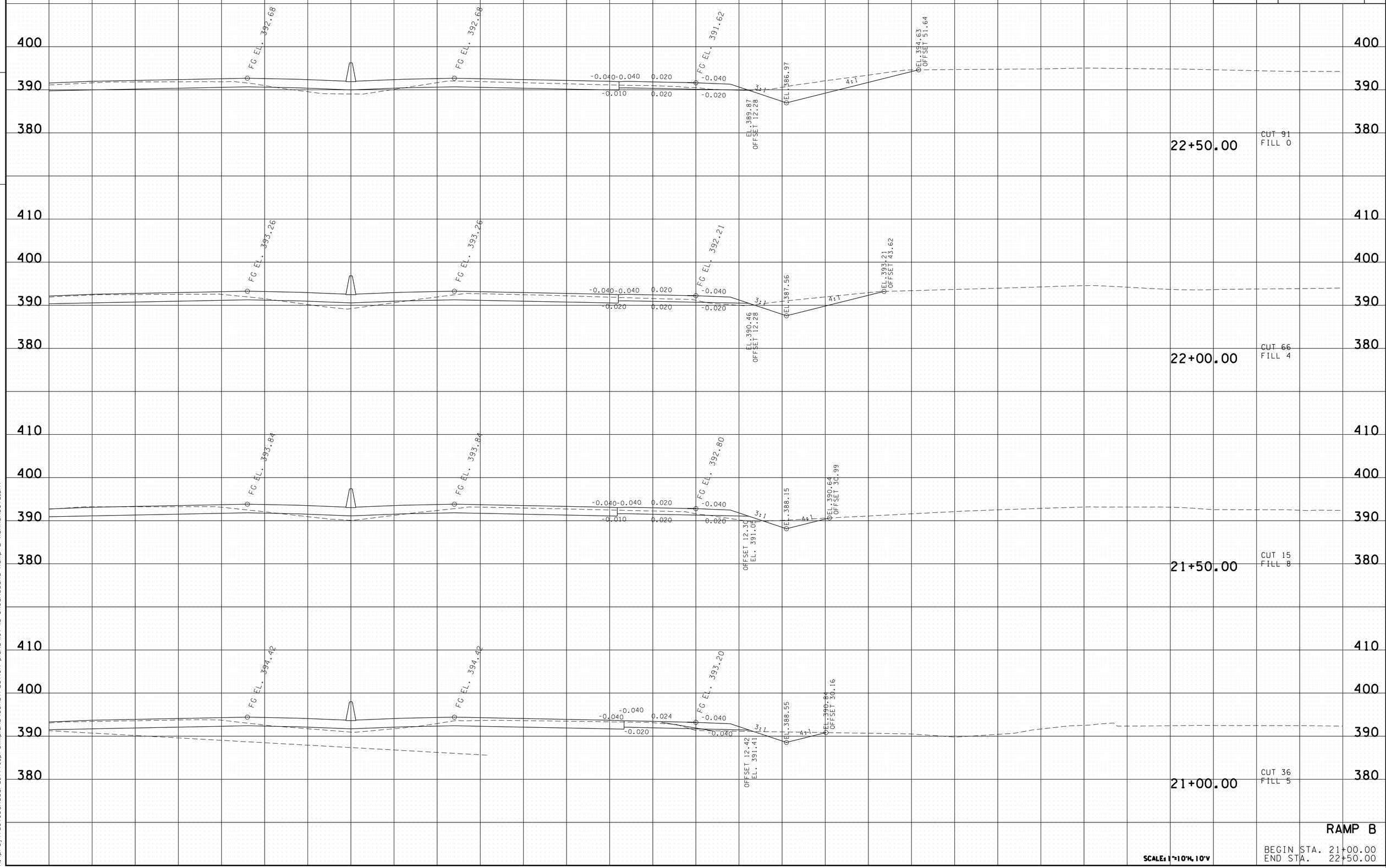
BEGIN STA. 19+50.00
END STA. 20+50.00

2/24/2014 2:48:06 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\107-113 SHCanadaRd Ramp B xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	115
CONST.	2013	NH-I-40(283)20	113

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

SCALE: 1"=10'H, 10'V

BEGIN STA. 21+00.00
END STA. 22+50.00

2/24/2014 2:48:10 PM
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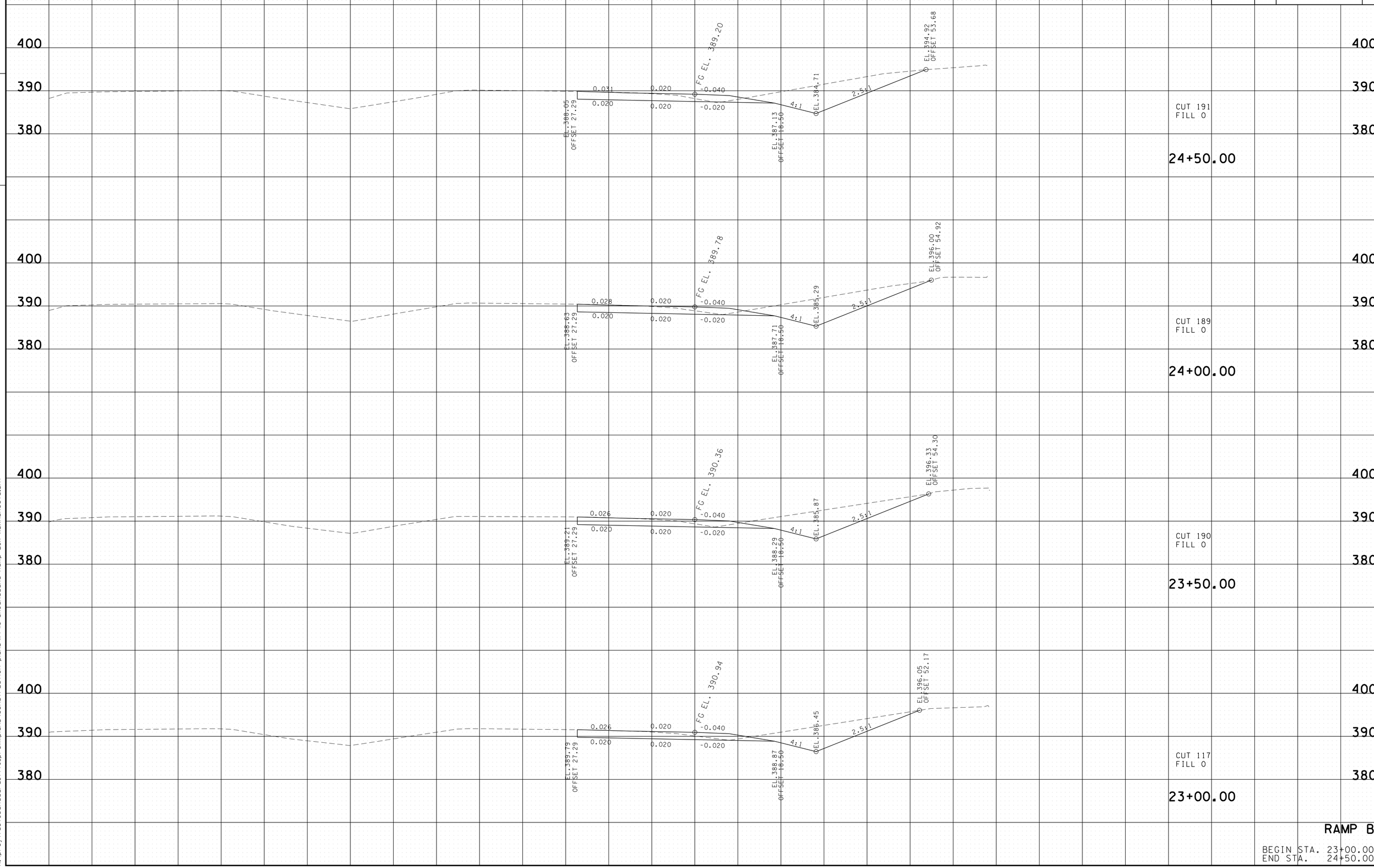
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	114

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP B

BEGIN STA. 23+00.00
END STA. 24+50.00

2/24/2014 2:48:15 PM
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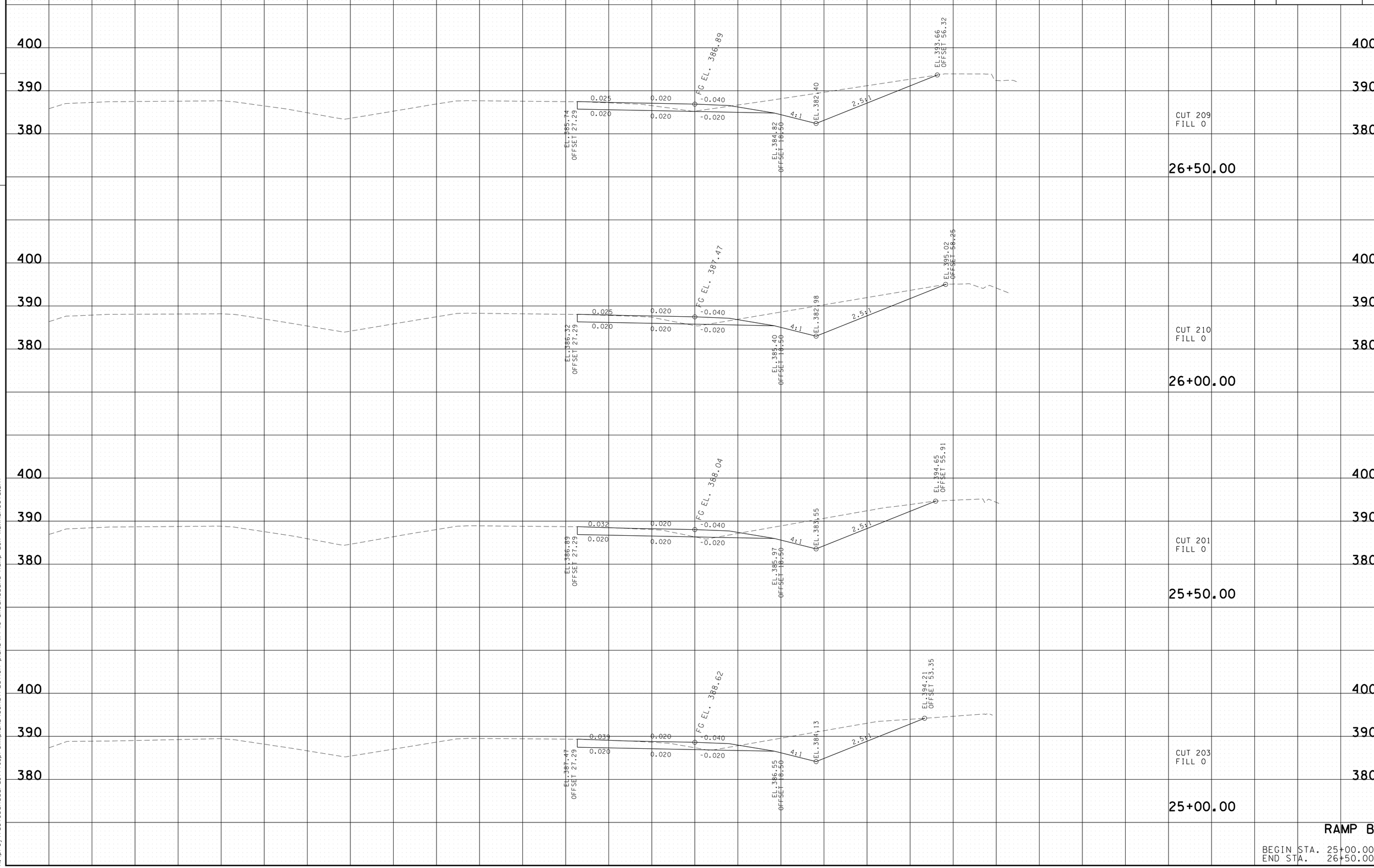
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	115

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



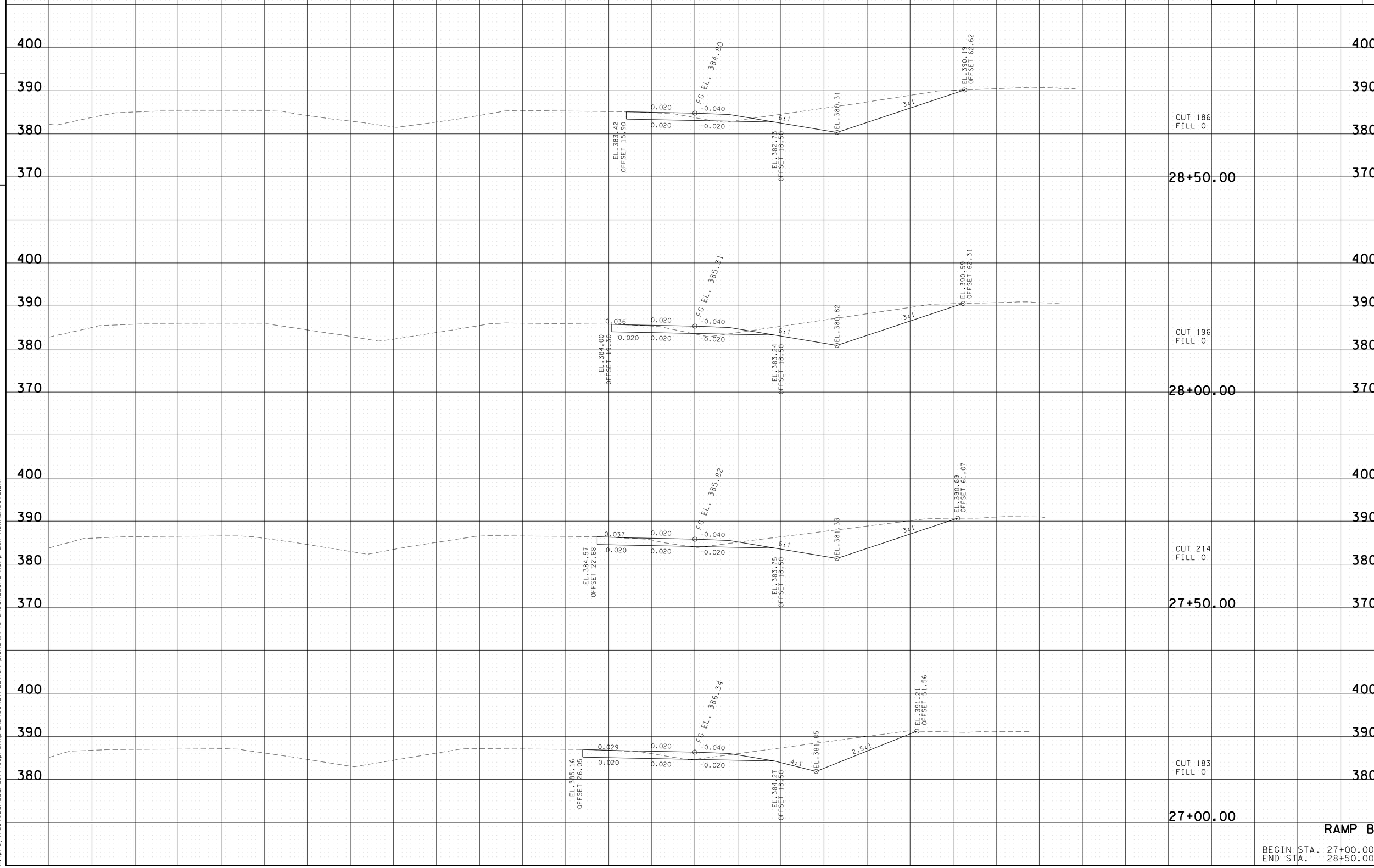
RAMP B

BEGIN STA. 25+00.00
END STA. 26+50.00

2/24/2014 2:48:20 PM
k:\proj\tdot_canadard_7779.prelimplans\construction plans\U14-118 SHCanadaRd Ramp B_X xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	116

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



RAMP B

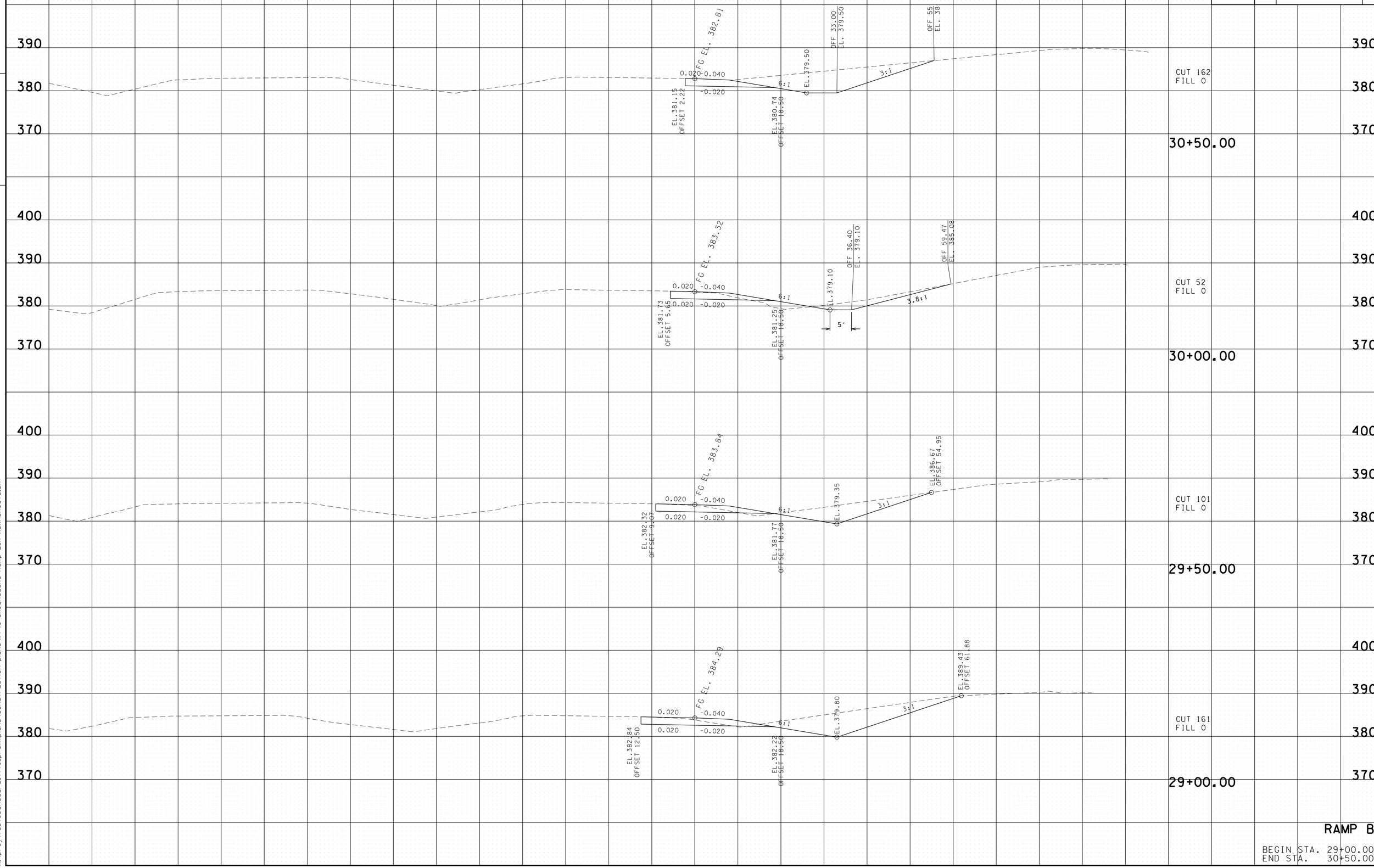
BEGIN STA. 27+00.00
END STA. 28+50.00

2/24/2014 2:48:24 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\U14-118 SHCanadaRd Ramp B_X xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	117

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

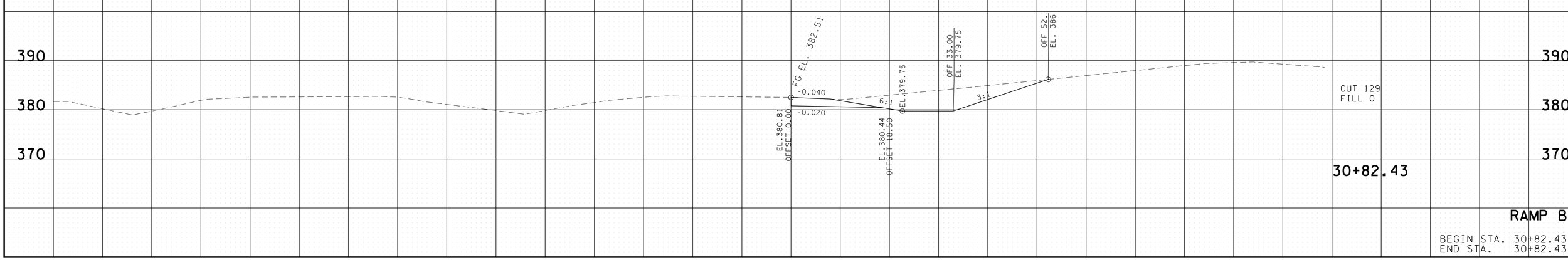
BEGIN STA. 29+00.00
END STA. 30+50.00

2/24/2014 2:48:28 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\114-118 SHCanadaRd Ramp B_X xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	118

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B

BEGIN STA. 30+82.43
END STA. 30+82.43

2/24/2014 2:48:33 PM
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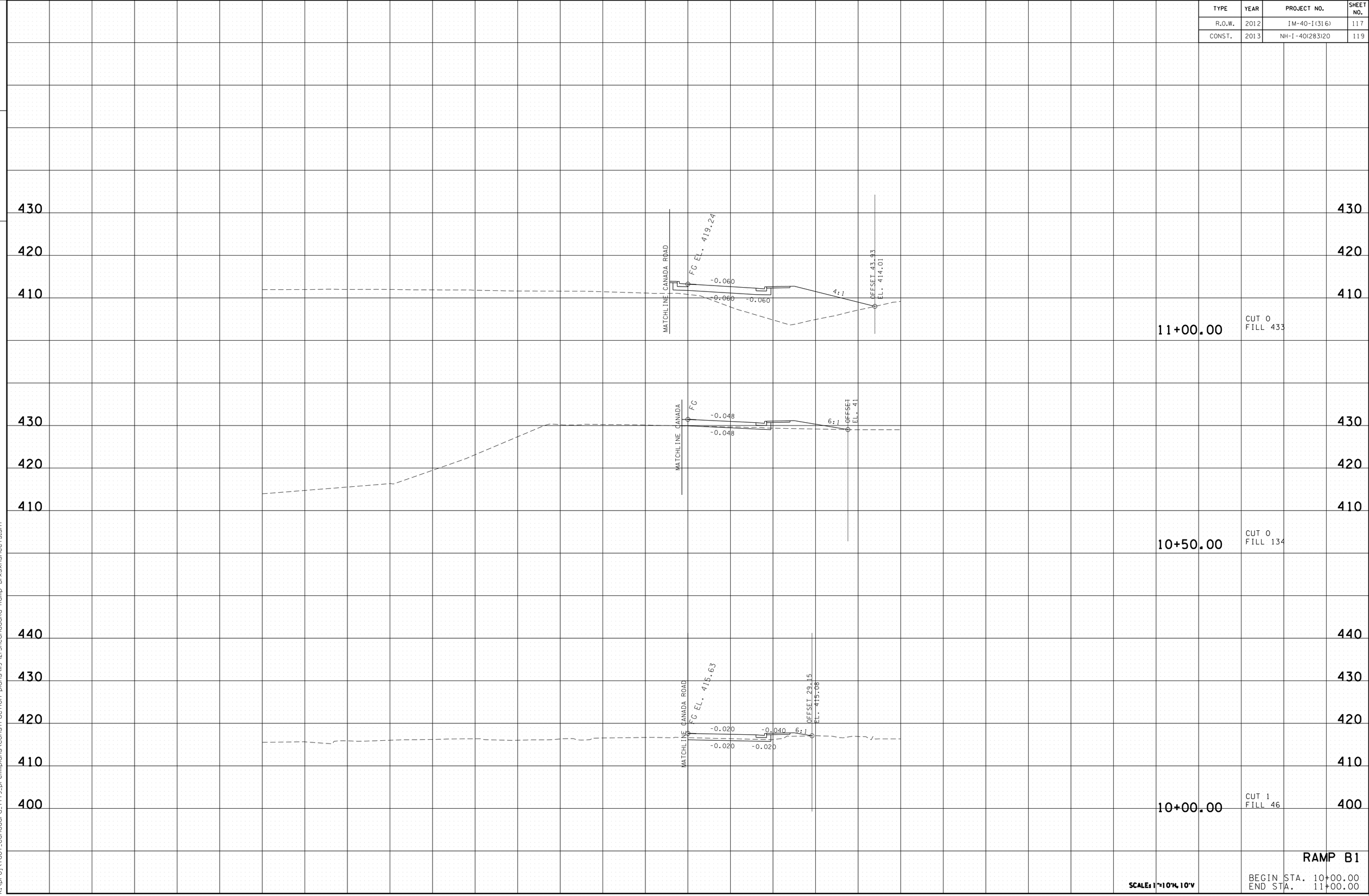
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	117
CONST.	2013	NH-I-40(283)20	119

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP B1

SCALE: 1"=10'H, 10'V

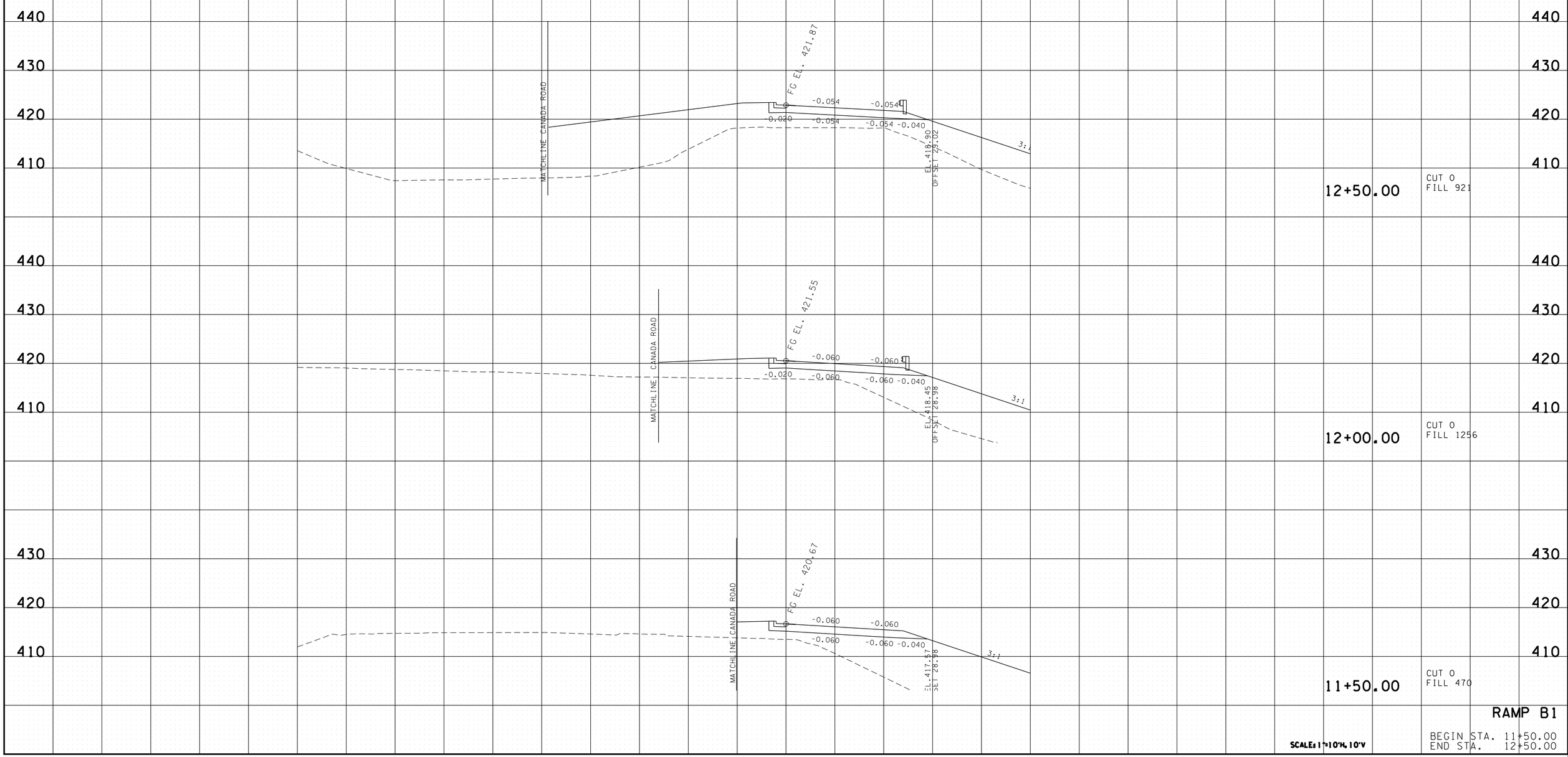
BEGIN STA. 10+00.00
END STA. 11+00.00

2/24/2014 2:48:37 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\19-12\SHCanadaRd Ramp B1xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	118
CONST.	2013	NH-I-40(283)20	120

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP B1

SCALE: 1"=10'H, 10'V

BEGIN STA. 11+50.00
END STA. 12+50.00

2/24/2014 2:48:42 PM
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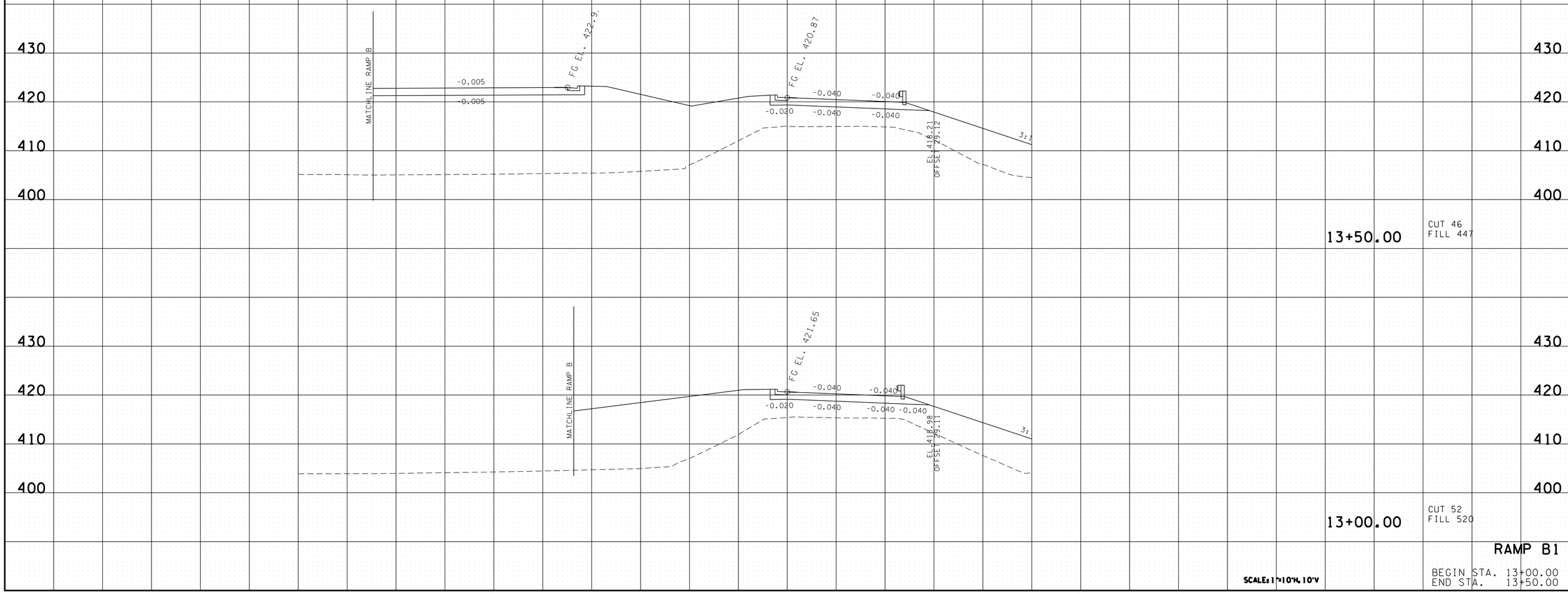
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	119
CONST.	2013	NH-I-40(283)20	121

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP B1

BEGIN STA. 13+00.00
END STA. 13+50.00

2/24/2014 2:48:46 PM
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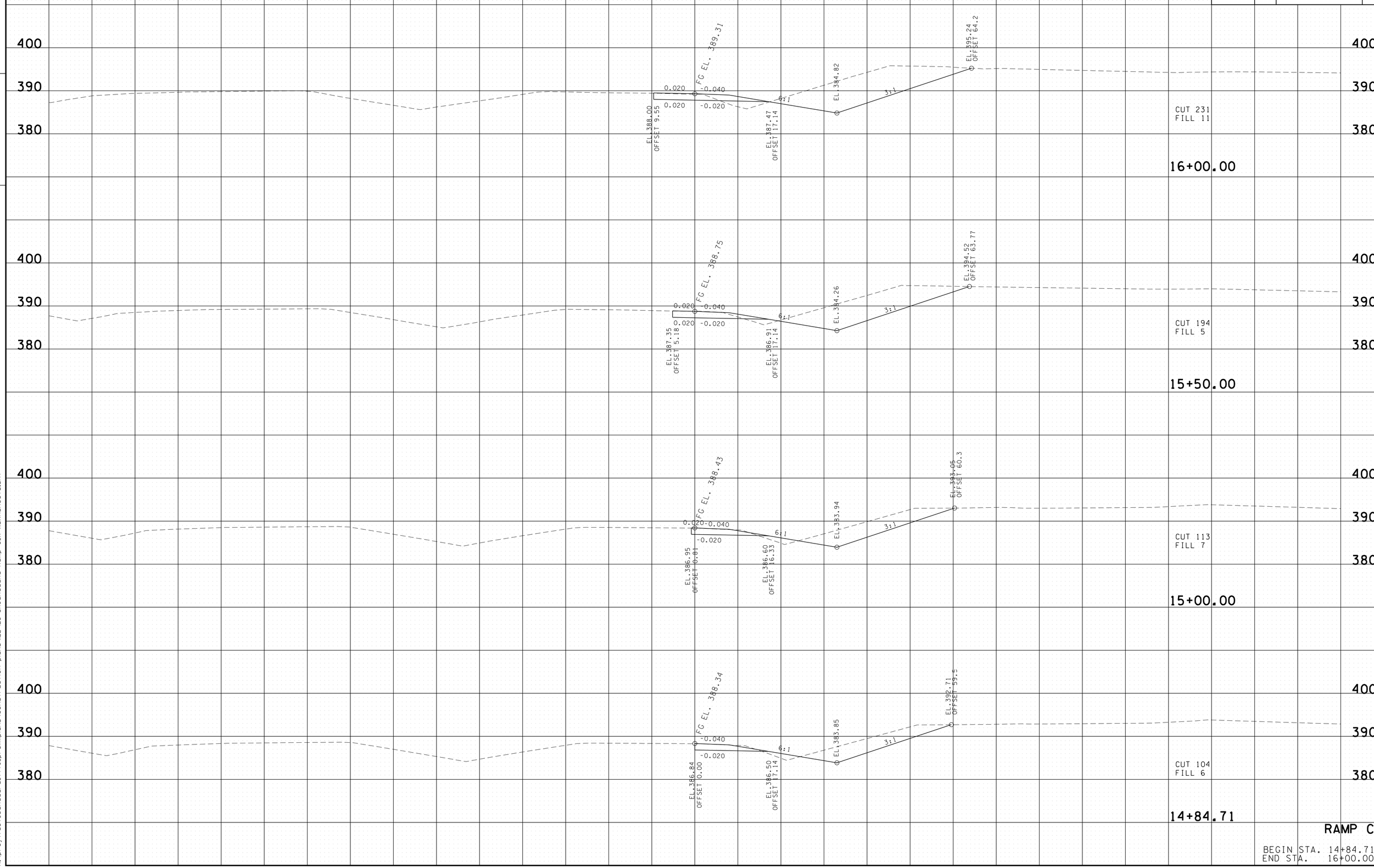
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	122

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

BEGIN STA. 14+84.71
END STA. 16+00.00

2/24/2014 2:48:51PM
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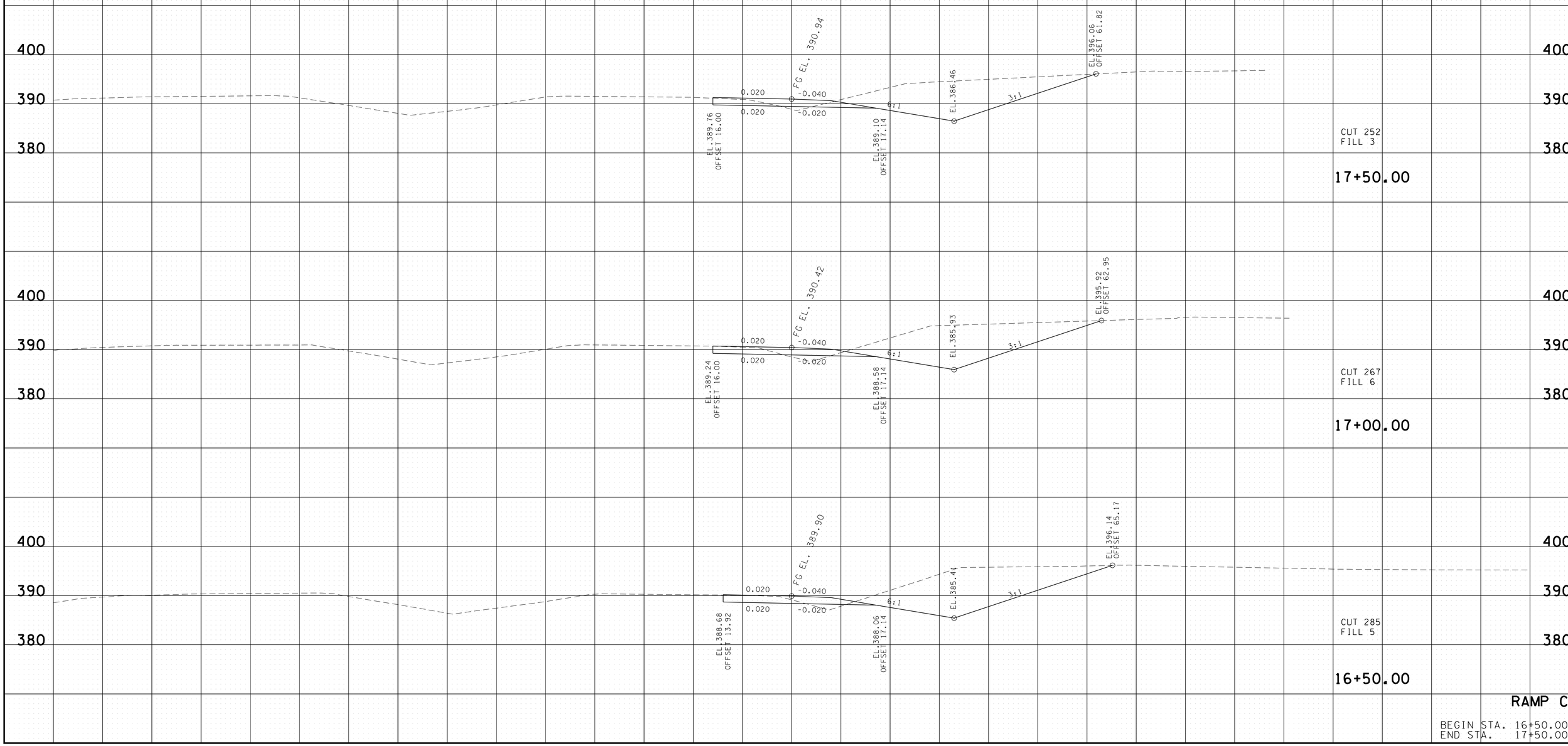
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	123

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

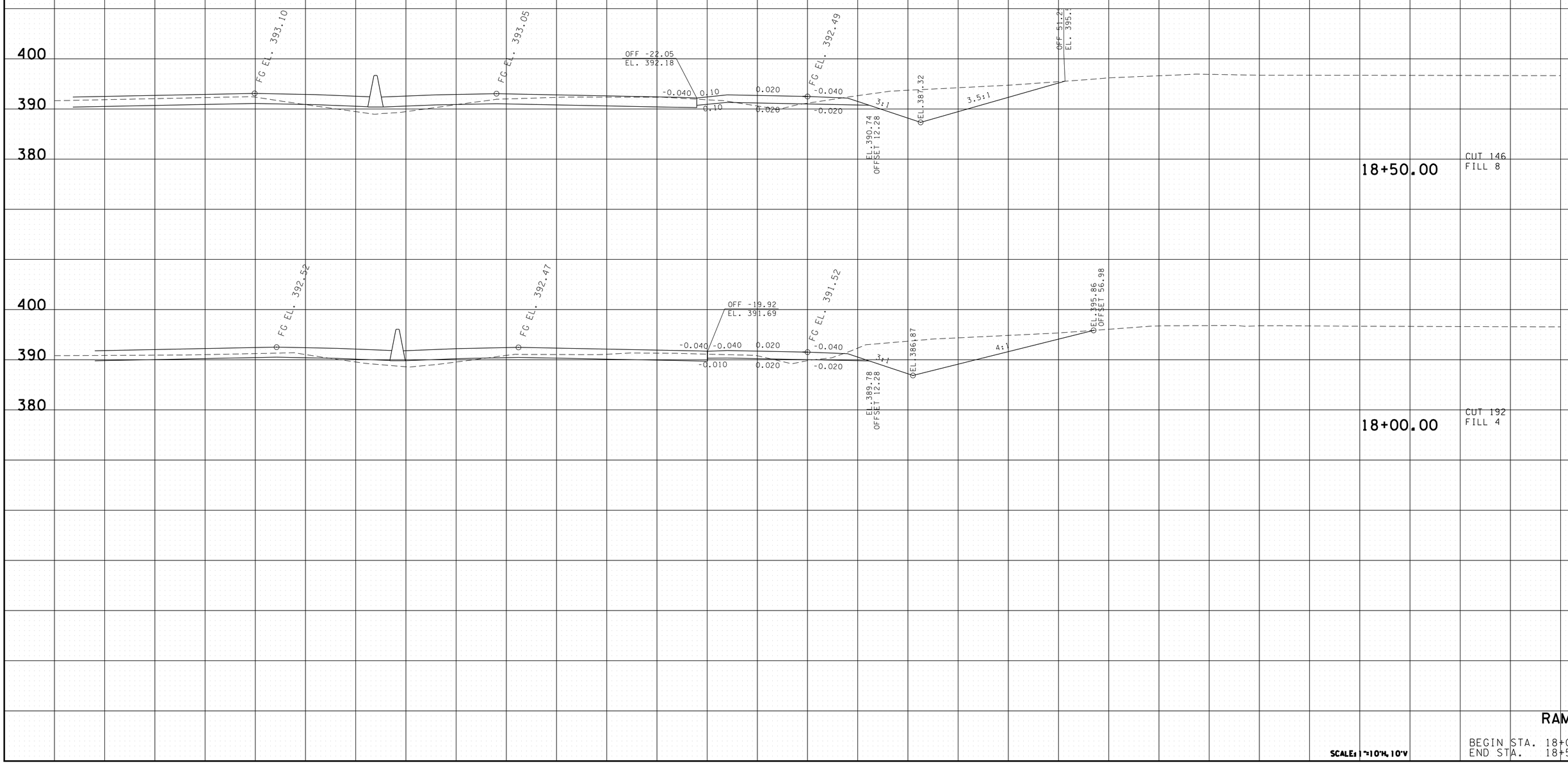
BEGIN STA. 16+50.00
END STA. 17+50.00

2/24/2014 2:48:55 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\22-123 SHCanadaRd Ramp C_X xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	124

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP C

BEGIN STA. 18+00.00
END STA. 18+50.00

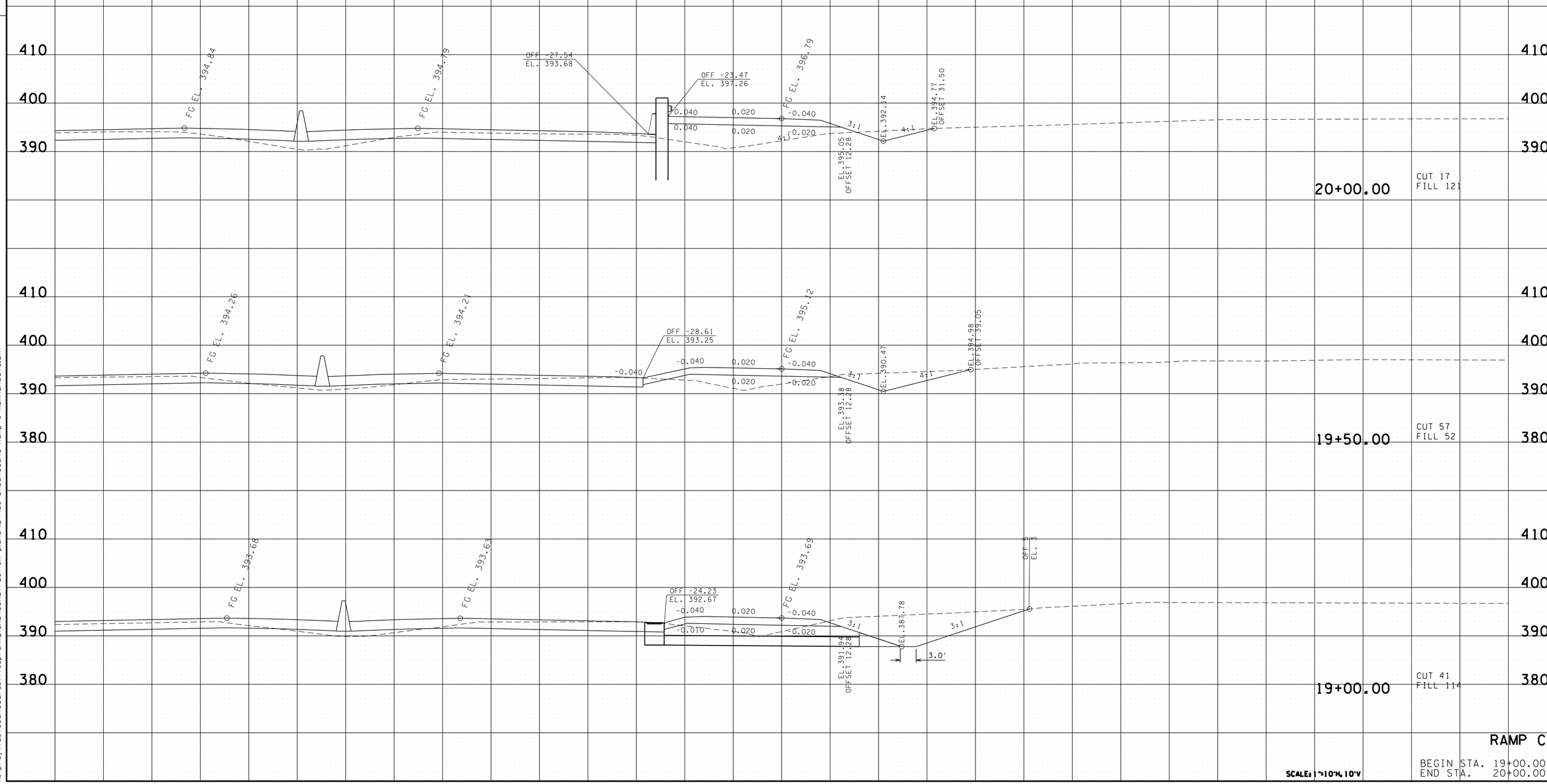
SCALE: 1"=10'H, 10'V

2/24/2014 2:49:00 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\I24-I30 SHCanadaRd Ramp C xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	125

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

SCALE: 1"=10'H, 10'V

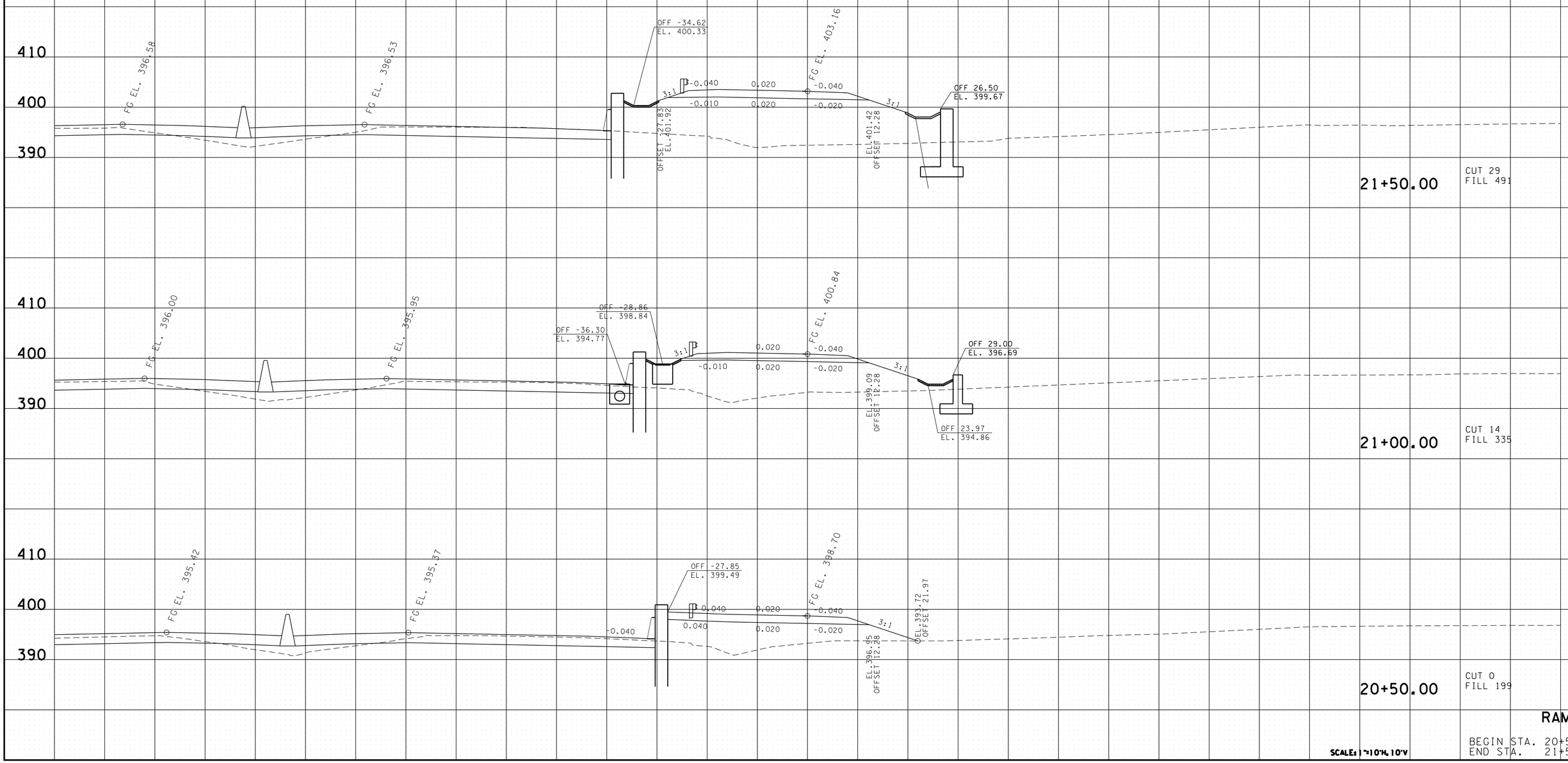
BEGIN STA. 19+00.00
END STA. 20+00.00

2/24/2014 2:49:05 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\I24-I30 SHCanadaRd Ramp C xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	126

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

BEGIN STA. 20+50.00
END STA. 21+50.00

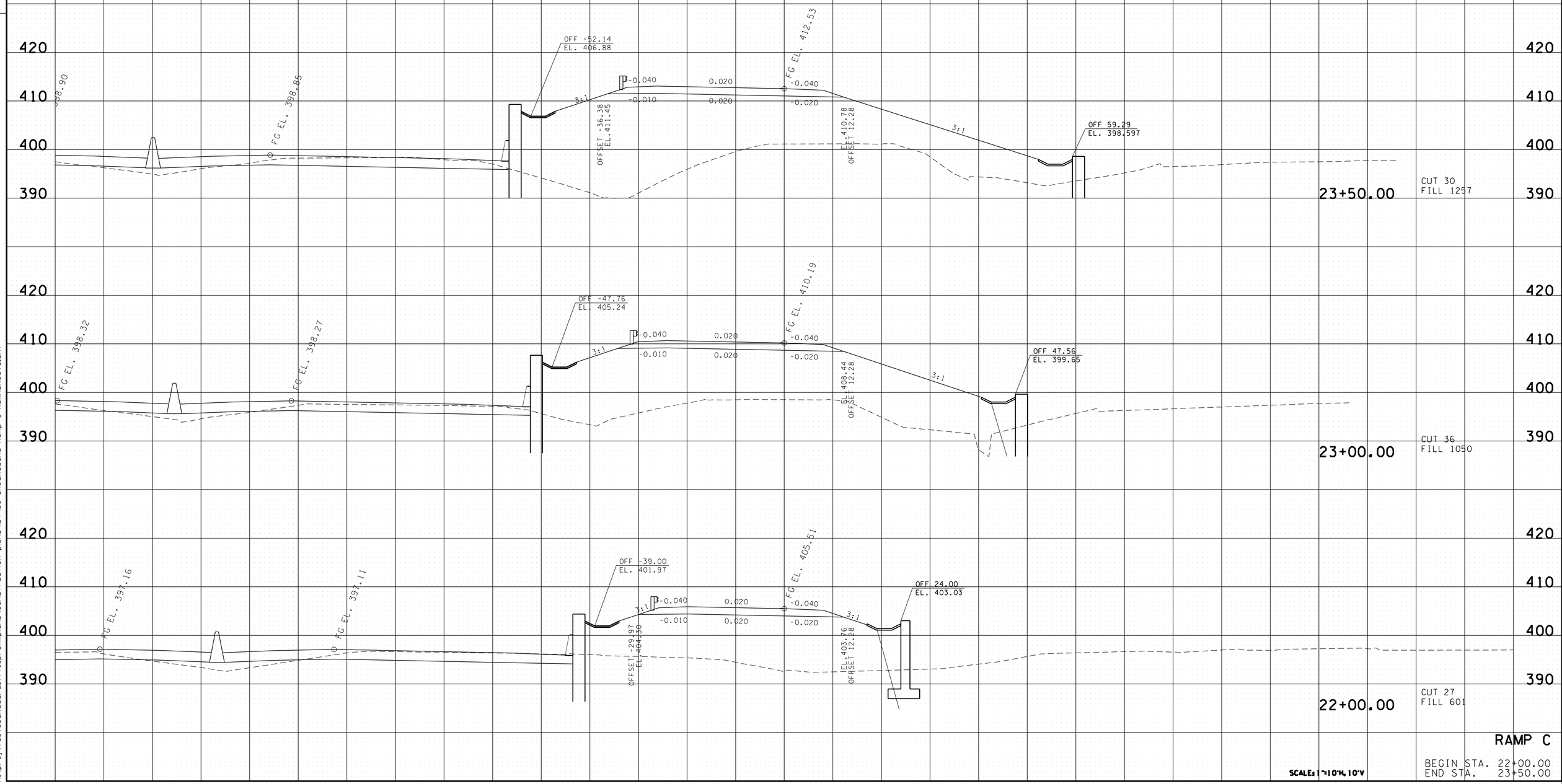
SCALE: 1"=10'H, 10'V

2/24/2014 2:49:09 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\I24-130 SHCanadaRd Ramp C xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	127

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

BEGIN STA. 22+00.00
END STA. 23+50.00

SCALE: 1"=10'H, 10'V

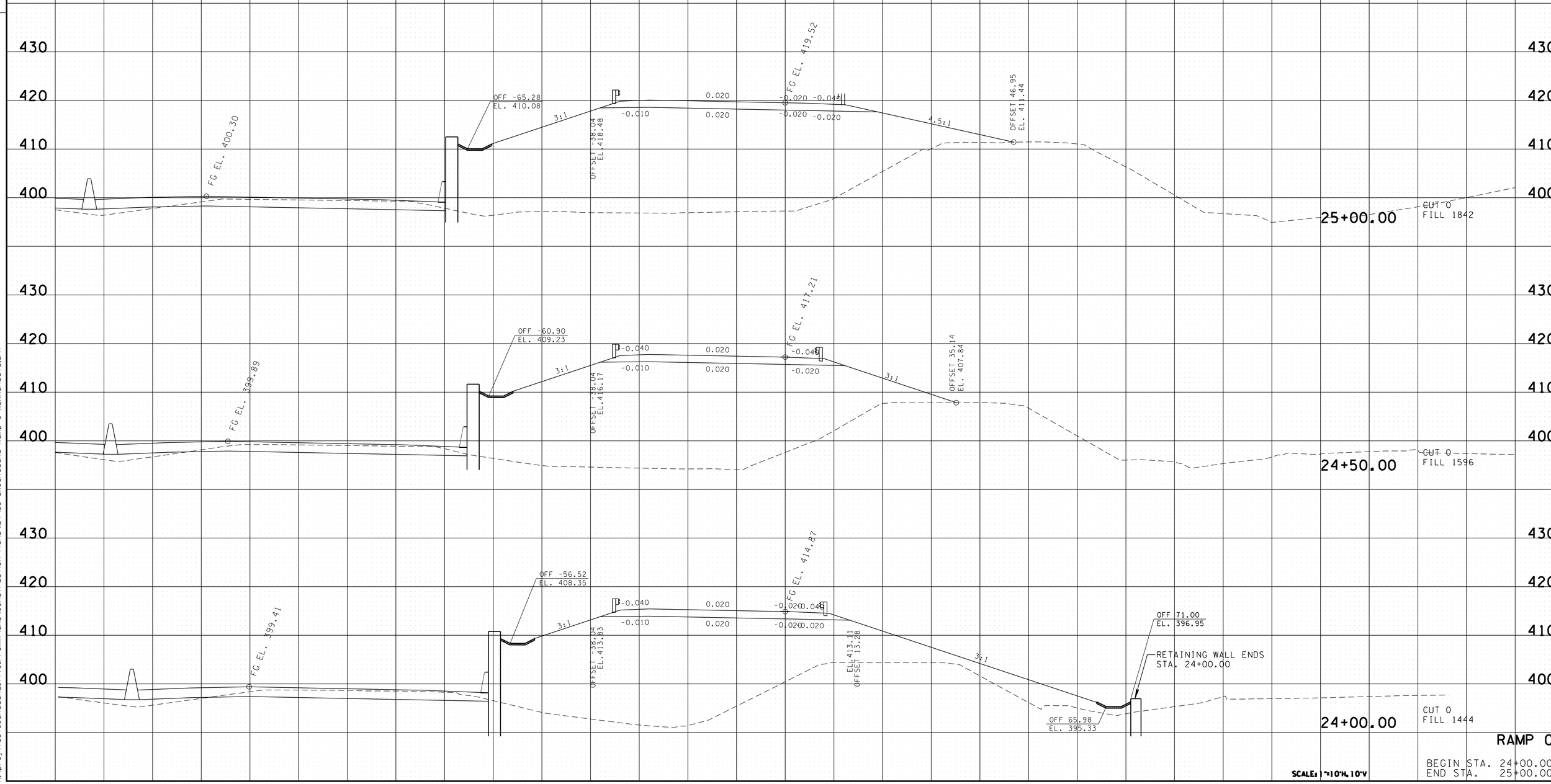
2/24/2014 2:49:13 PM
k:\proj\tdot_canadard_7779_prellmplans\construction plans\I24-I30 SHCanadaRd Ramp C xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	128

REV. 11/30/2012 REVISED CROSS SECTIONS TO REFLECT CHANGE IN RAMP C1 ALIGNMENT

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

SCALE: 1"=10'H, 10'V

BEGIN STA. 24+00.00
END STA. 25+00.00

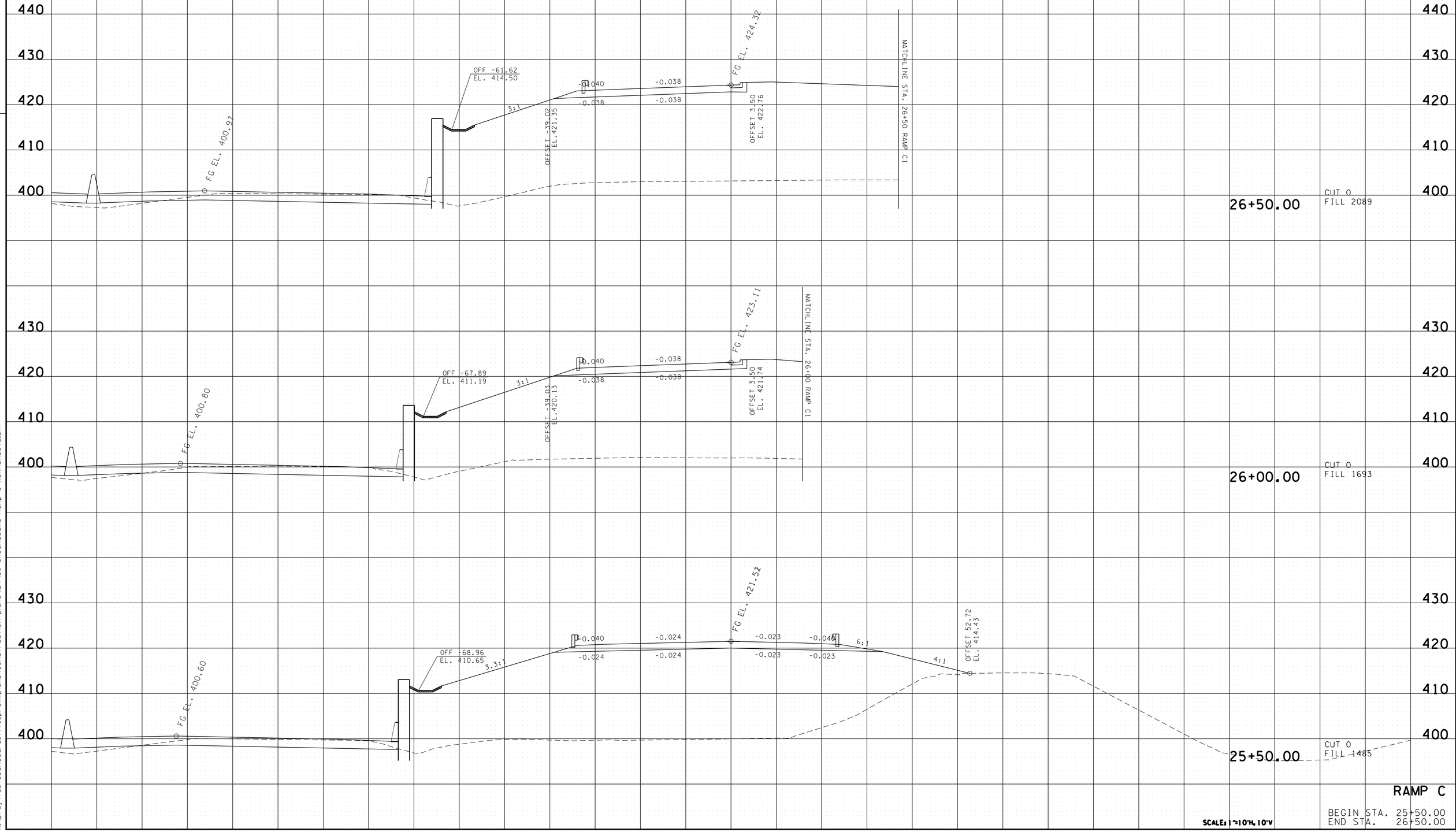
2/26/2014 3:11:36 PM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\124-130 SHCanadaRd Ramp C xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	129

REV. 11/30/2012 REVISED CROSS SECTIONS TO REFLECT CHANGE IN RAMP C1 ALIGNMENT

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SCALE: 1"=10'H, 10'V

RAMP C

BEGIN STA. 25+50.00
END STA. 26+50.00

2/24/2014 2:49:23 PM
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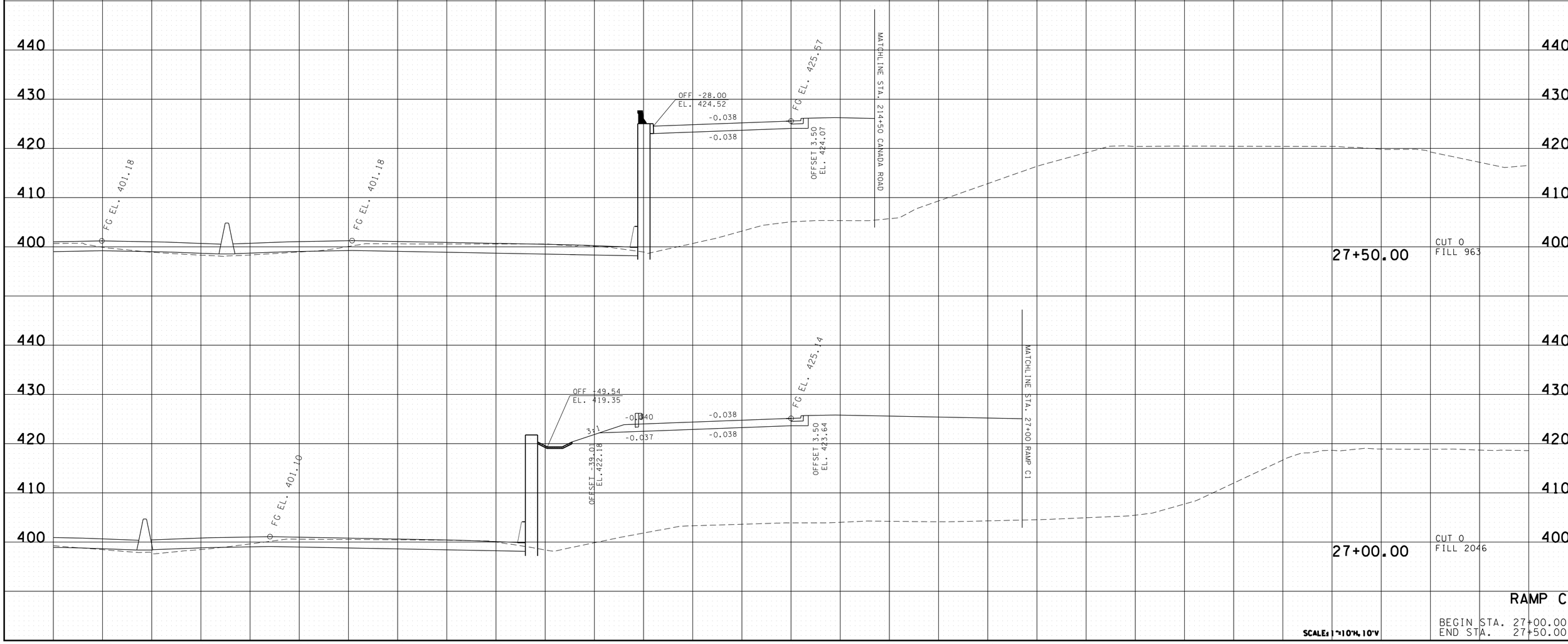
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	130

REV. 11/30/2012 REVISED CROSS SECTIONS TO REFLECT CHANGE IN RAMP C1 ALIGNMENT

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C

SCALE: 1"=10'H, 10'V

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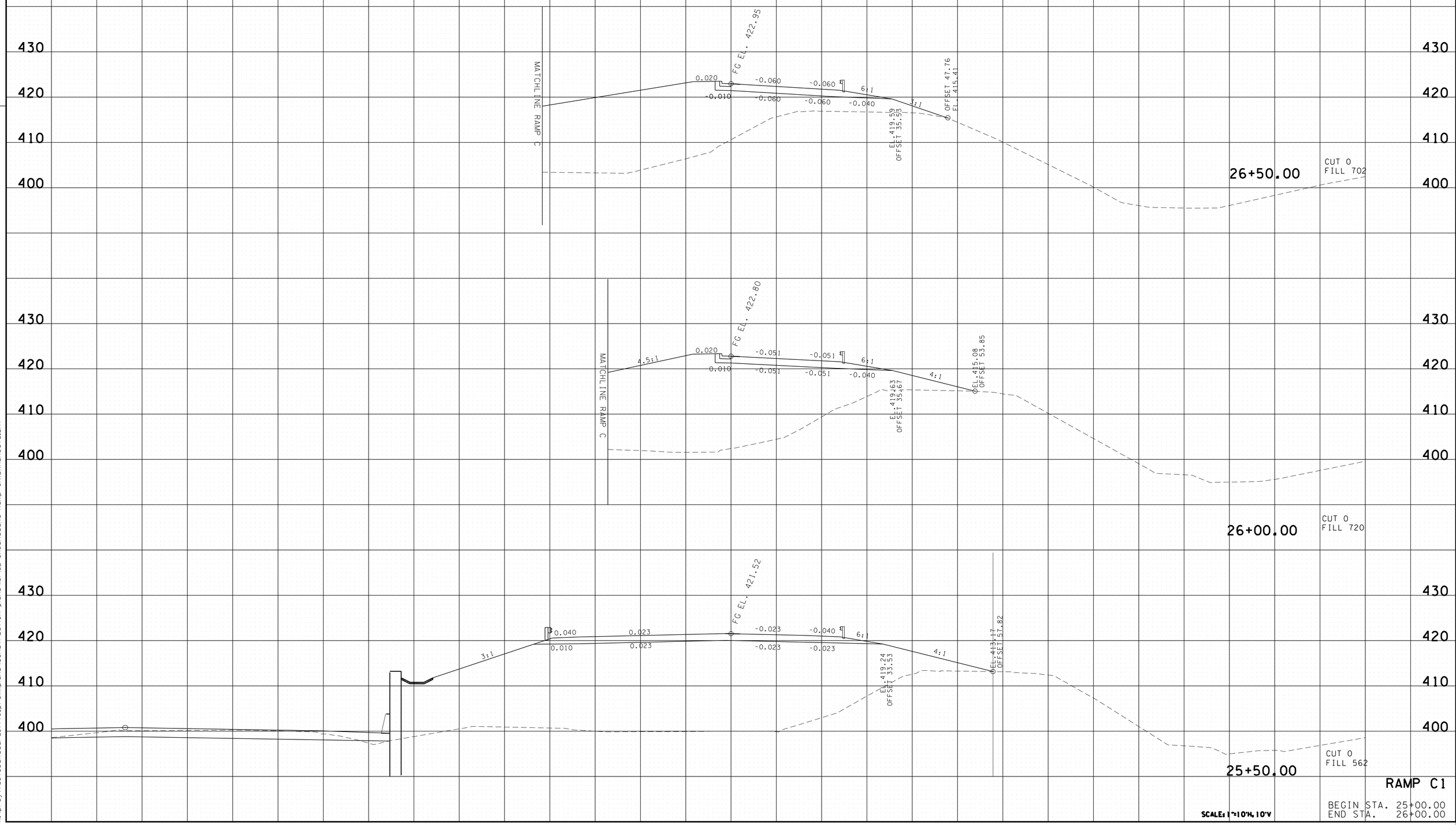
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	127
CONST.	2013	NH-I-40(283)20	131

REV. 11/30/2012 REVISED CROSS SECTIONS TO REFLECT CHANGE IN ALIGNMENT AND PROFILE OF RAMP C1.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP C1

SCALE: 1"=10'H, 10'V

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2/24/2014 2:49:32 PM
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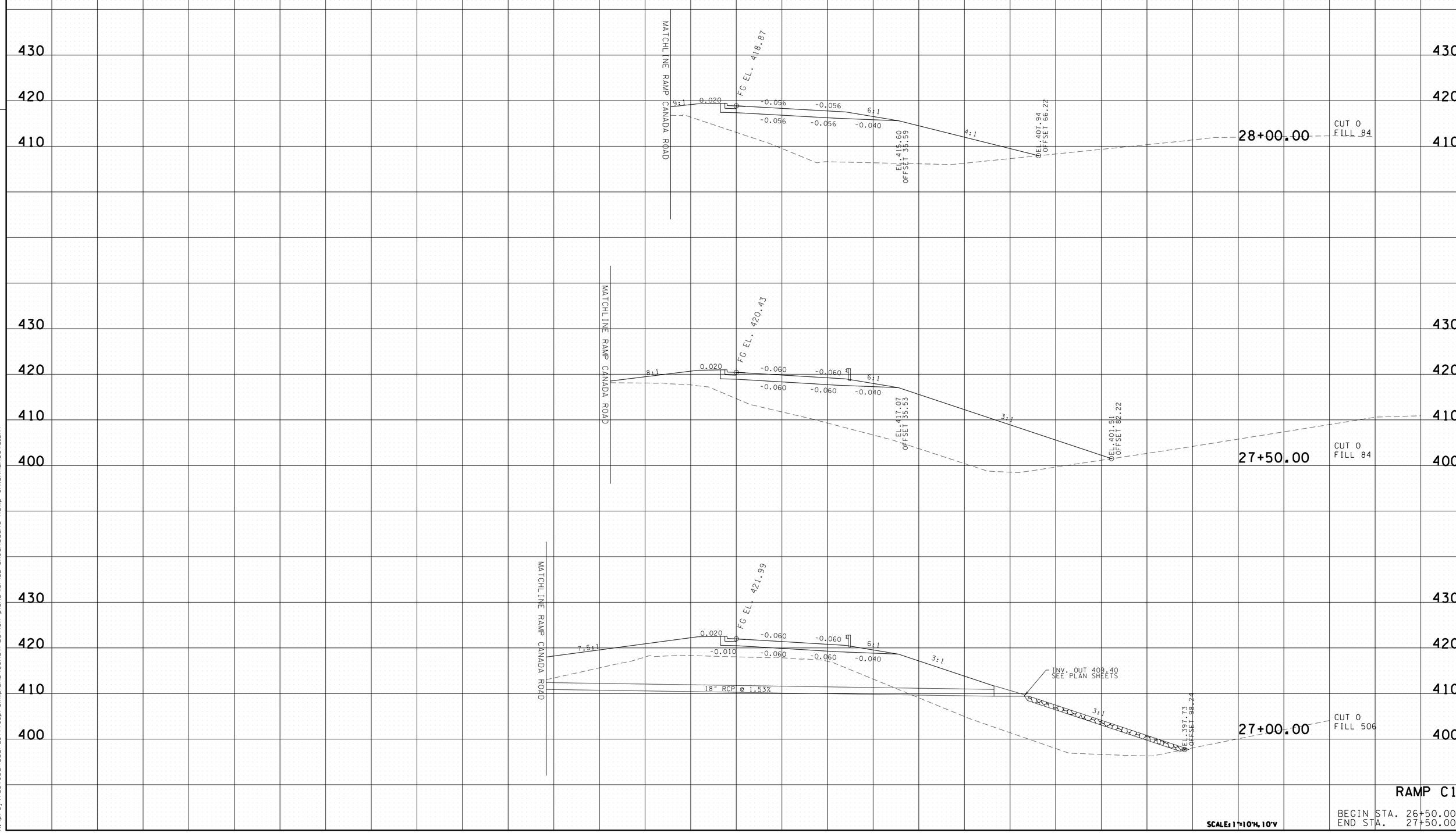
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	128
CONST.	2013	NH-I-40(283)20	132

REV. 11/30/2012 REVISED CROSS SECTIONS TO REFLECT CHANGE IN ALIGNMENT AND PROFILE OF RAMP C1.



RAMP C1

BEGIN STA. 26+50.00
END STA. 27+50.00

SCALE: 1"=10'H, 10'V

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

2/24/2014 2:49:36 PM
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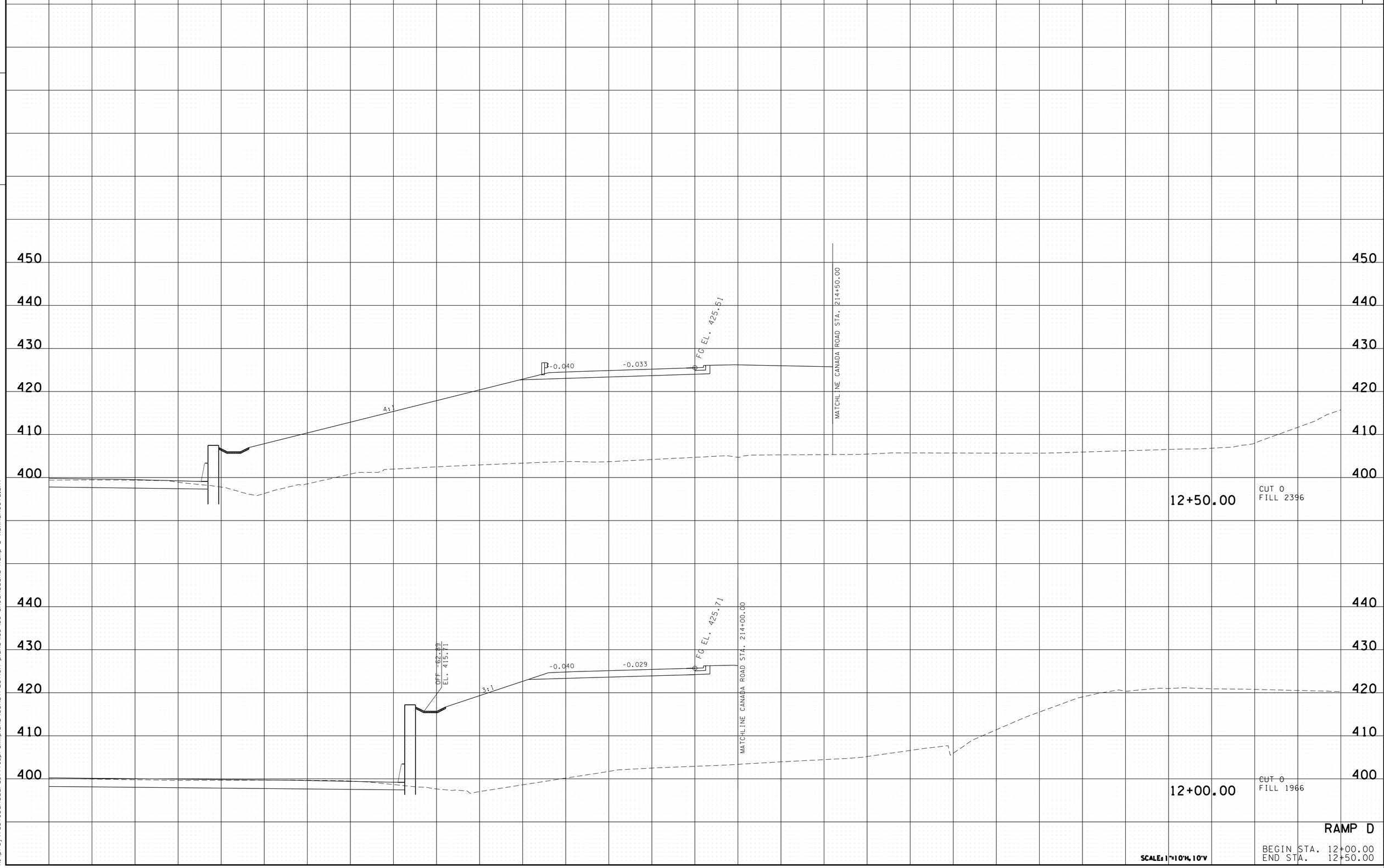
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	133

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP D

BEGIN STA. 12+00.00
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SCALE: 1"=10'H, 10'V

2/24/2014 2:49:42 PM
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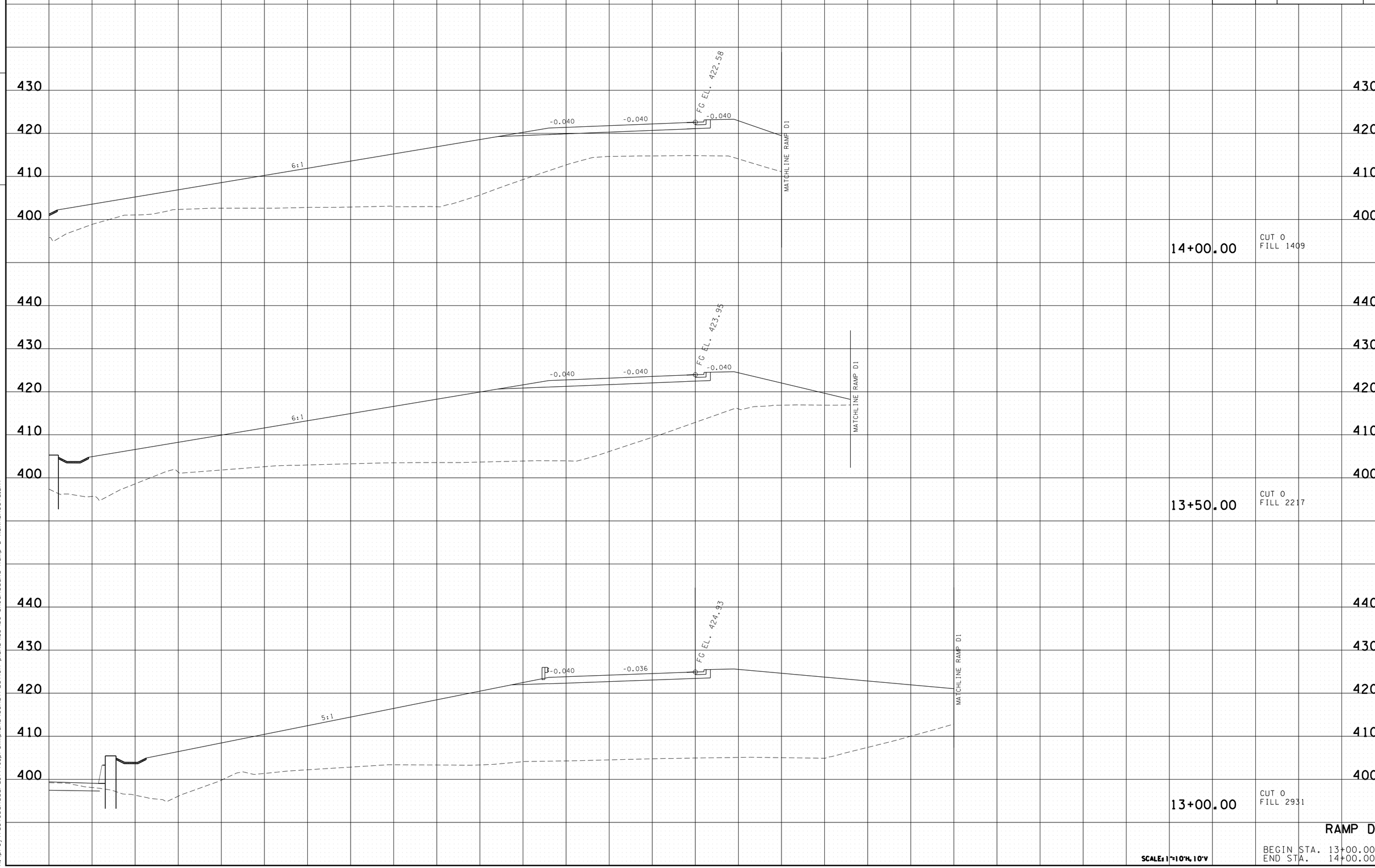
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	134

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 13+00.00
END STA. 14+00.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:49:46 PM
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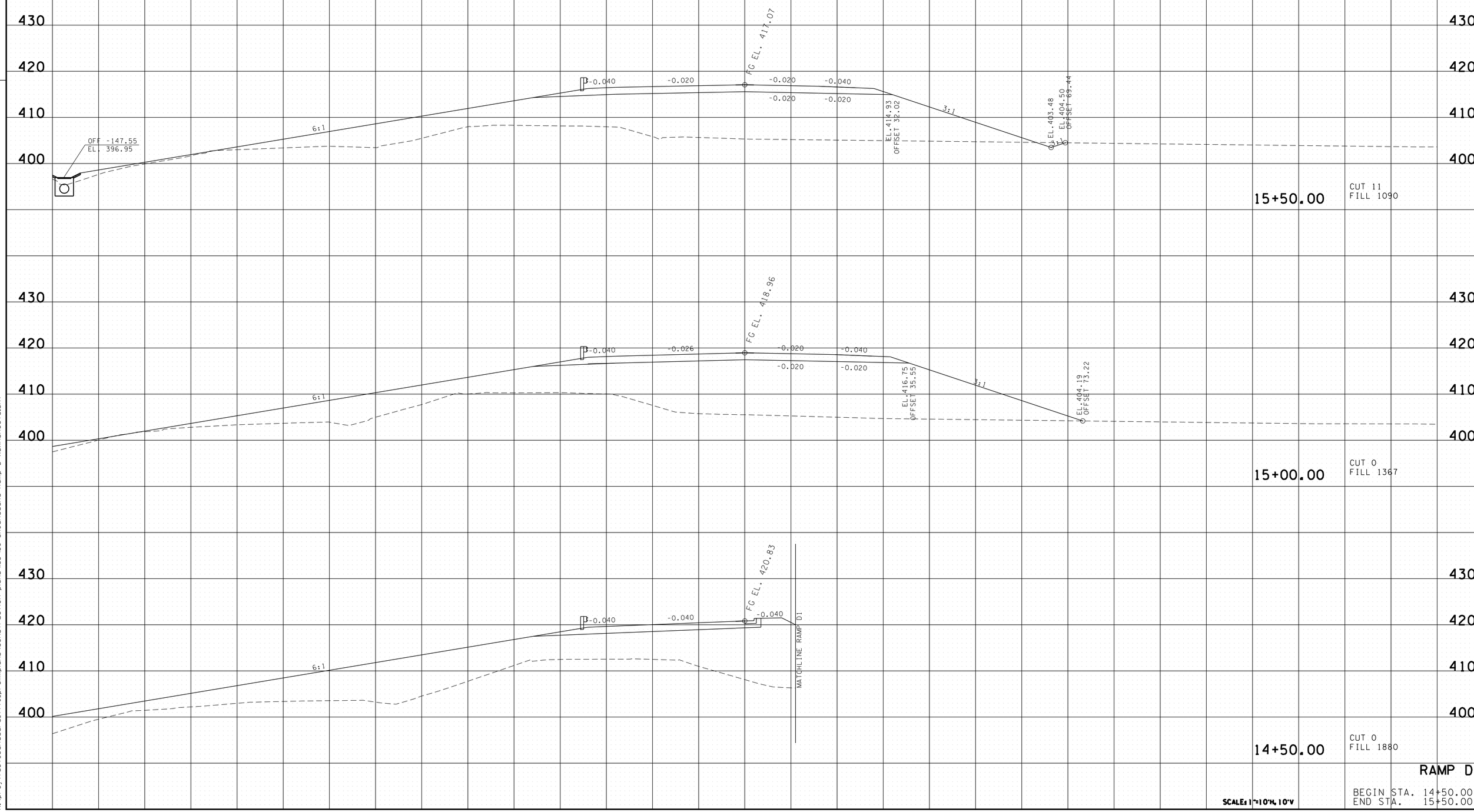
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	135

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

SCALE: 1"=10'H, 10'V

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END STA. 15+50.00

2/24/2014 2:49:50 PM
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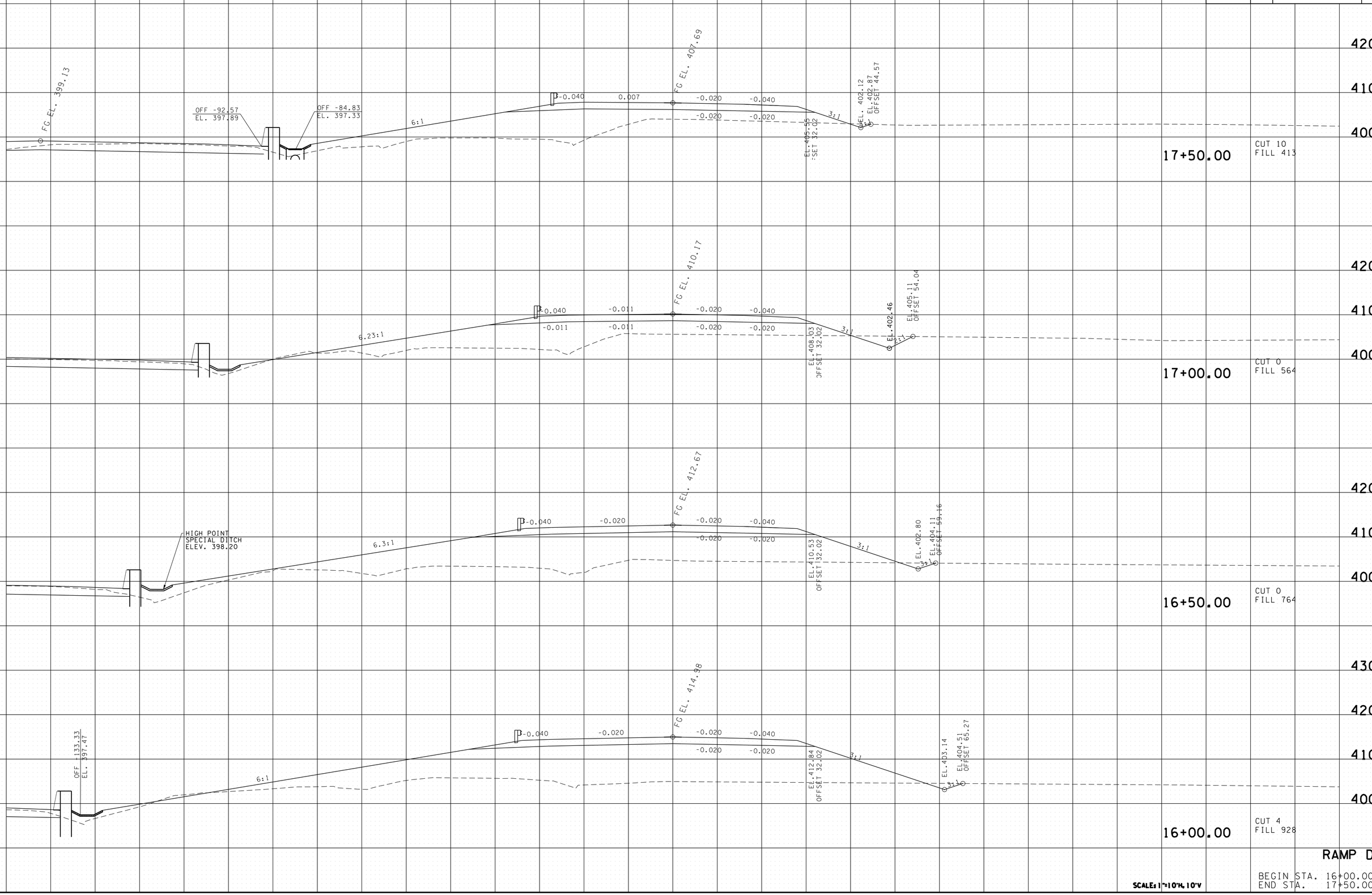
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	136

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 16+00.00
END STA. 17+50.00

SCALE: 1"=10'H, 10'V

2/24/2014 2:49:55 PM
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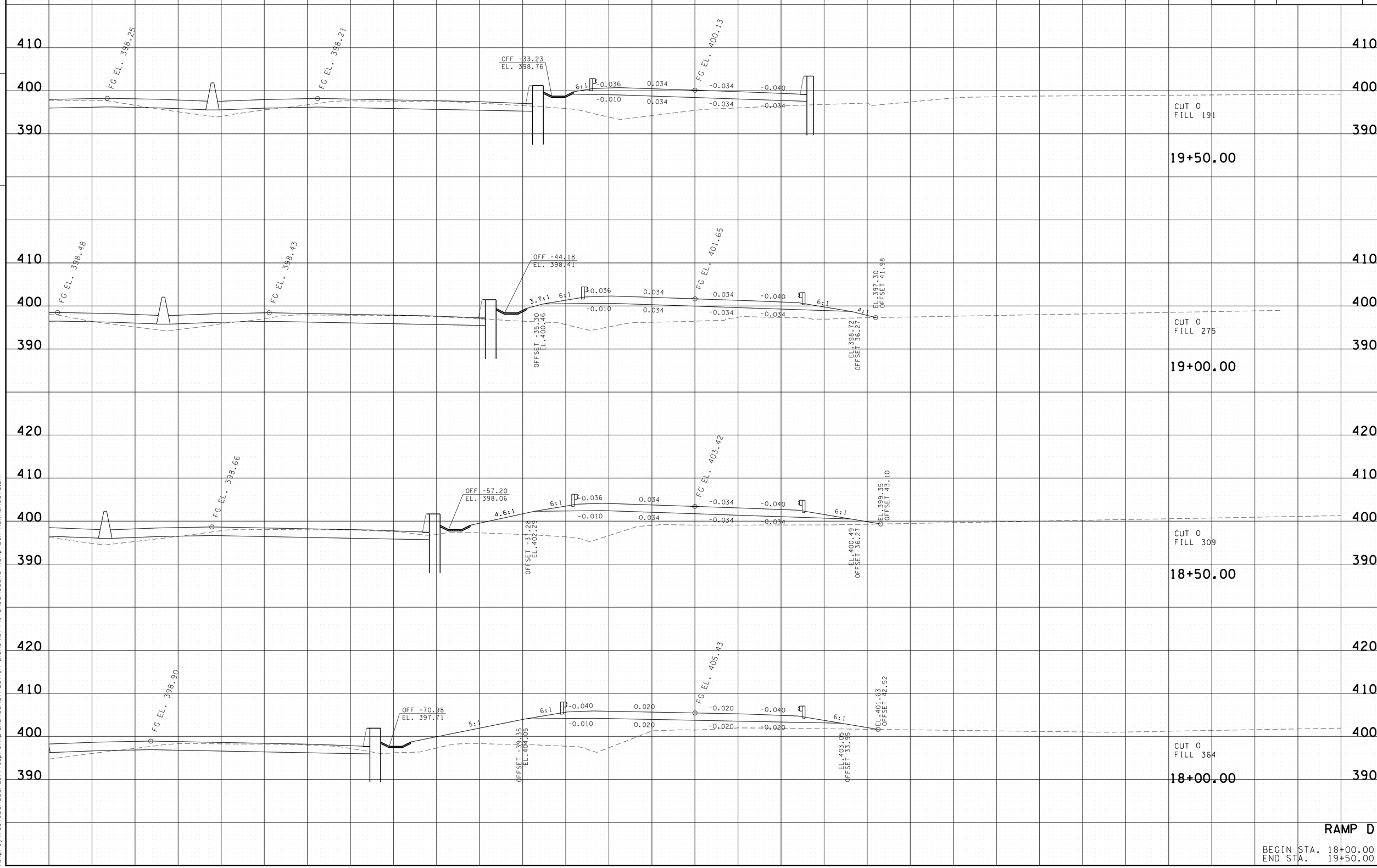
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	137

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

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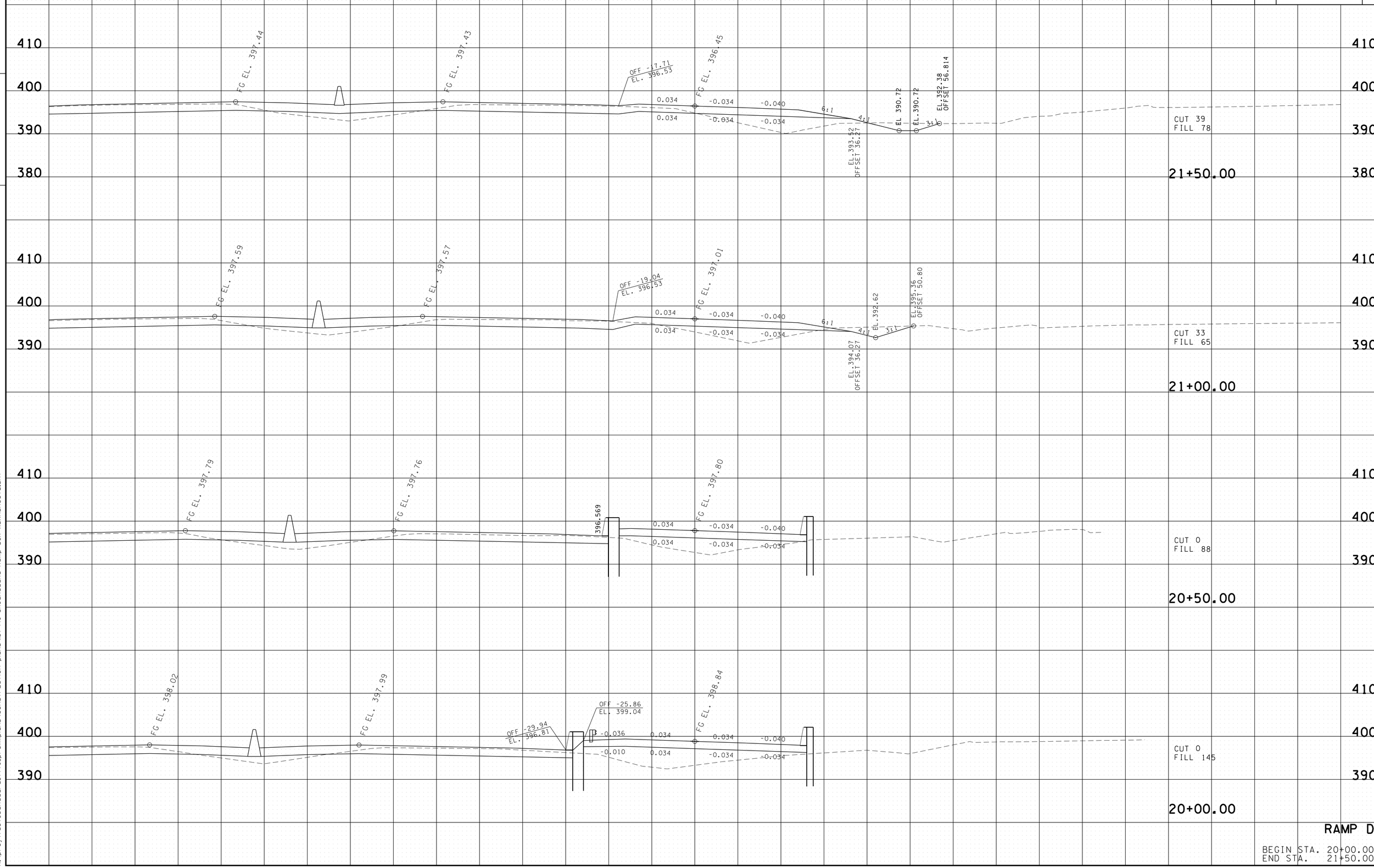
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	138

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 20+00.00
END STA. 21+50.00

2/24/2014 2:50:06 PM
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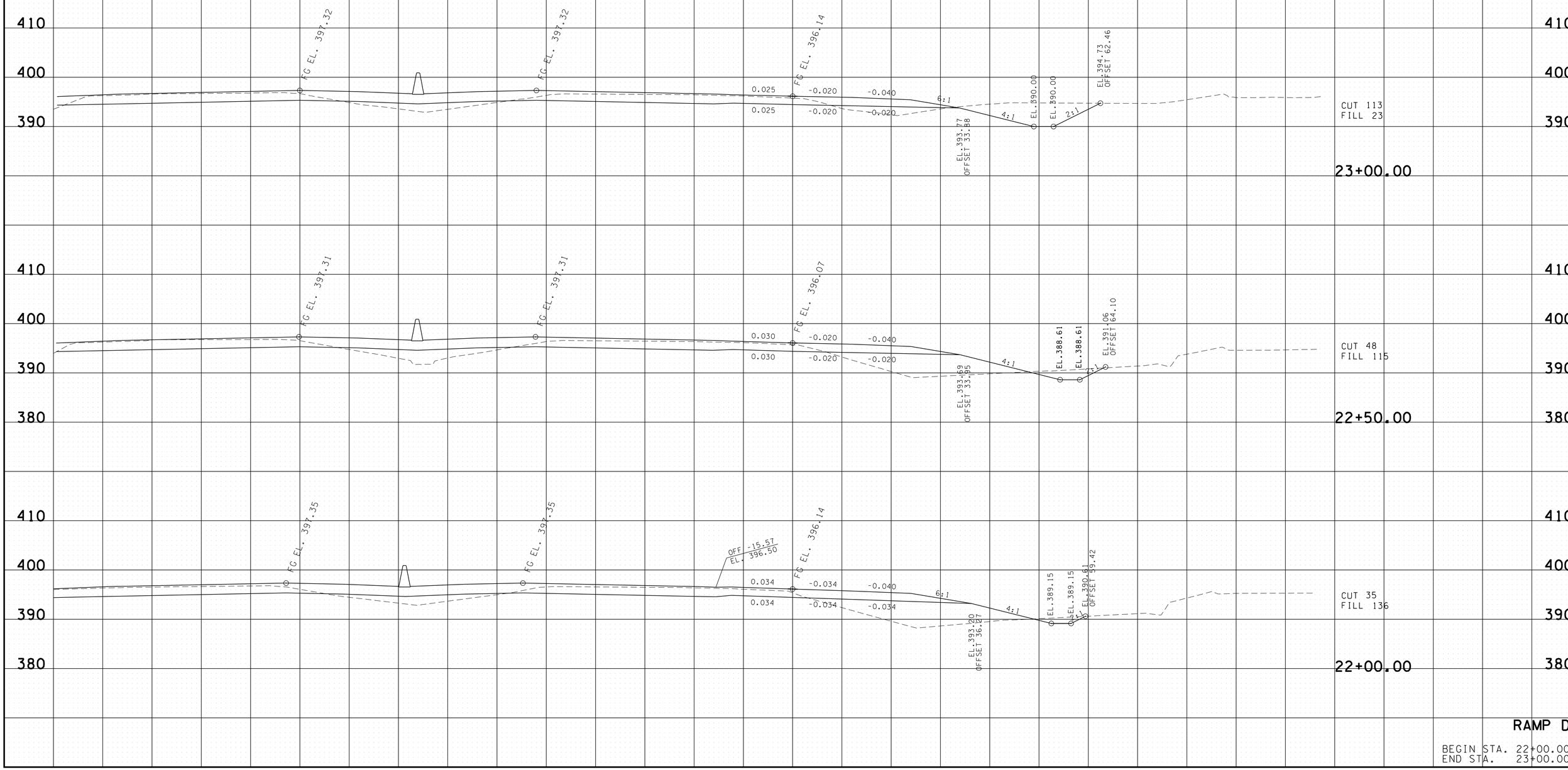
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	139

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

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END STA. 23+00.00

2/24/2014 2:50:10 PM
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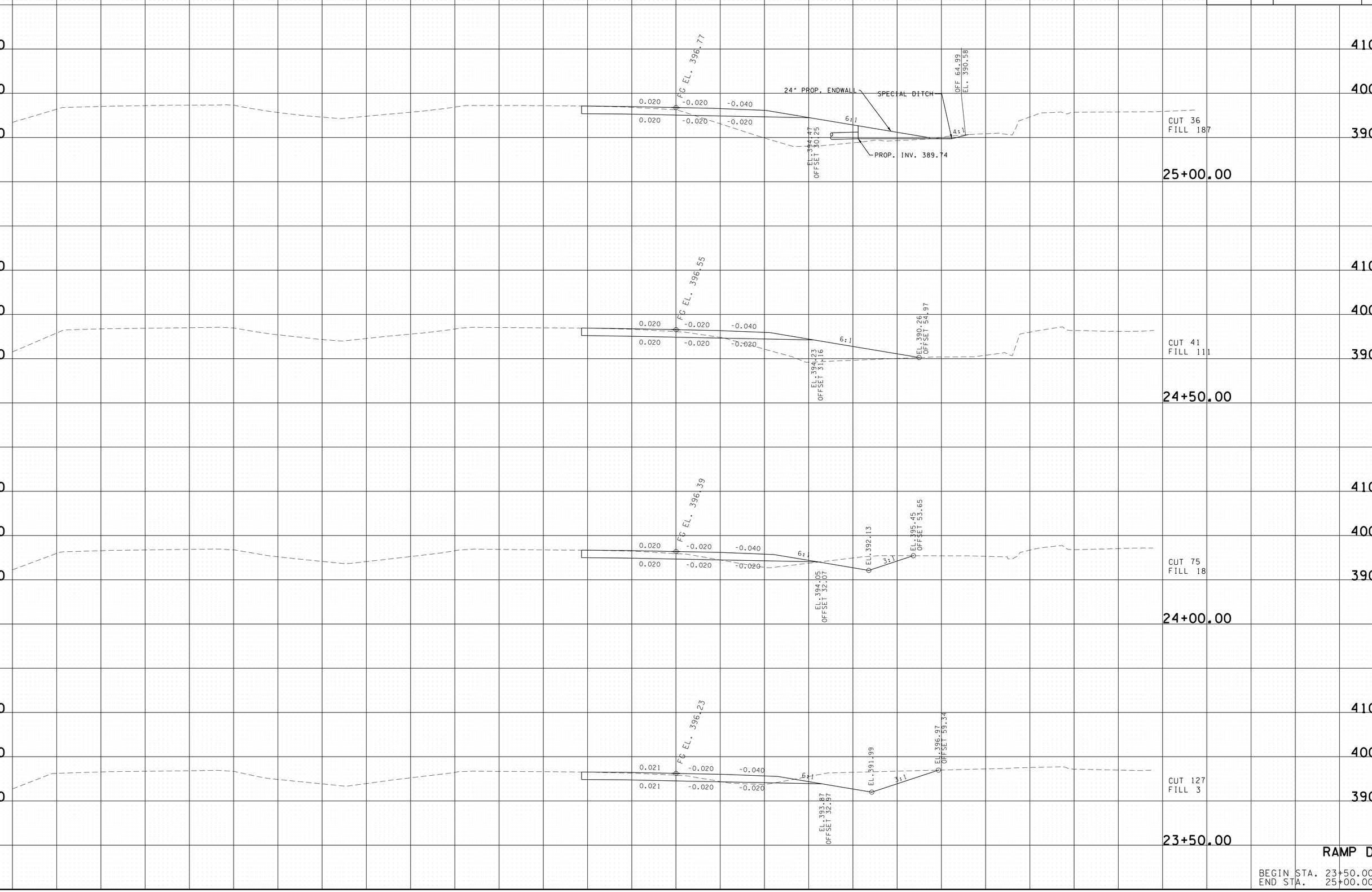
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	140

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

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END STA. 25+00.00

2/24/2014 2:50:14 PM
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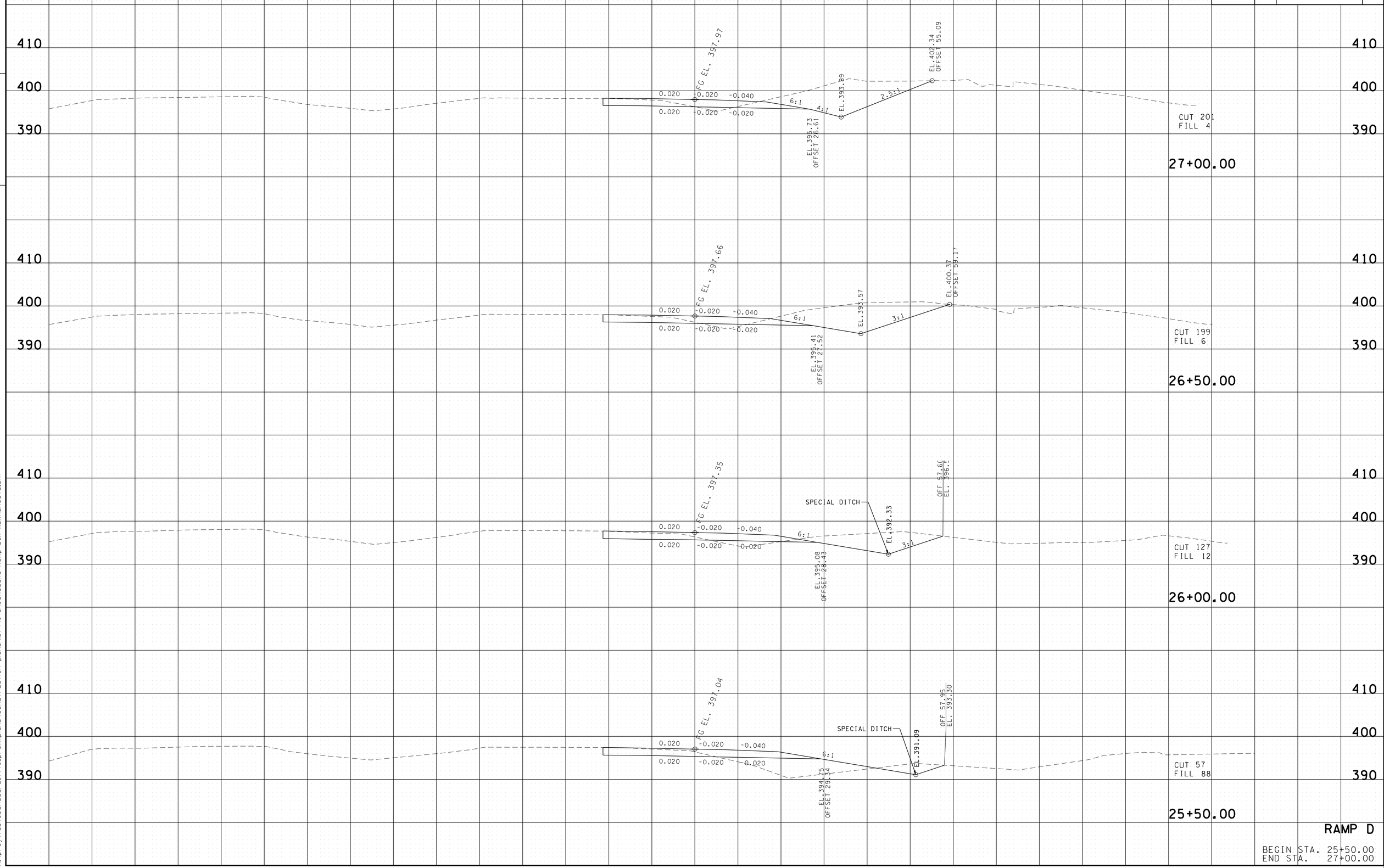
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	141

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 25+50.00
END STA. 27+00.00

2/24/2014 2:50:18 PM
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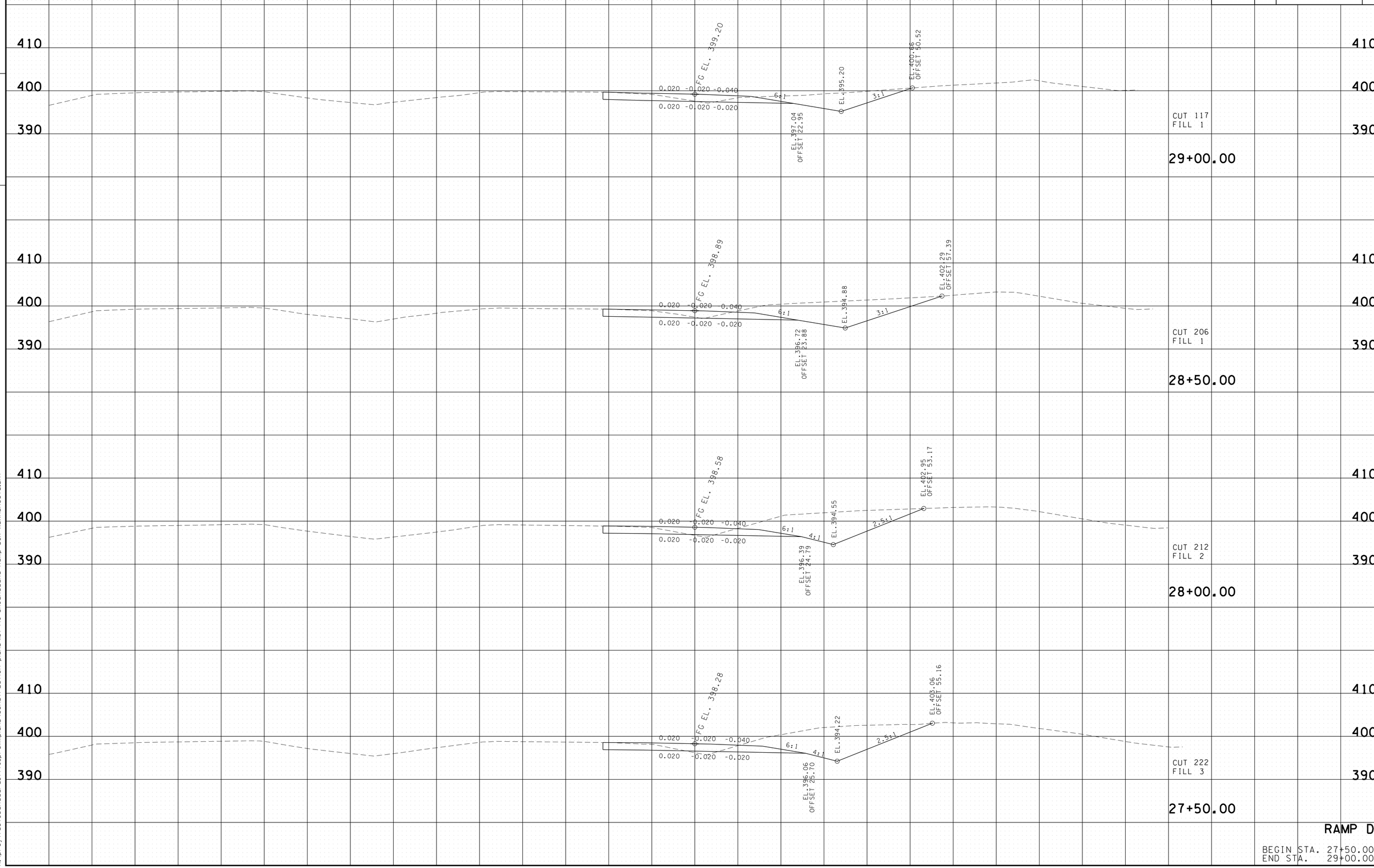
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	142

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 27+50.00
END STA. 29+00.00

2/24/2014 2:50:23 PM
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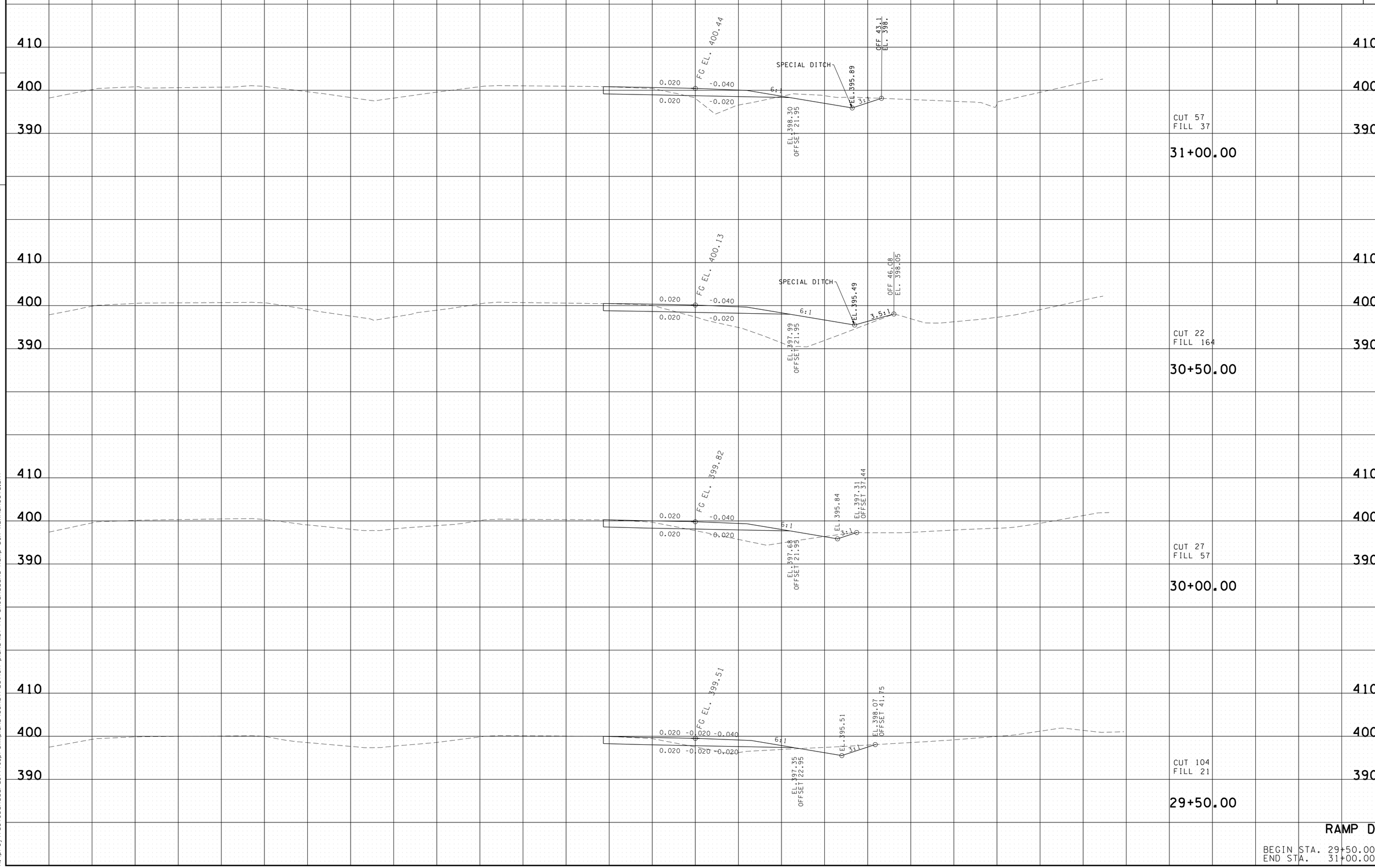
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	143



RAMP D

BEGIN STA. 29+50.00
END STA. 31+00.00

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

2/24/2014 2:50:27 PM
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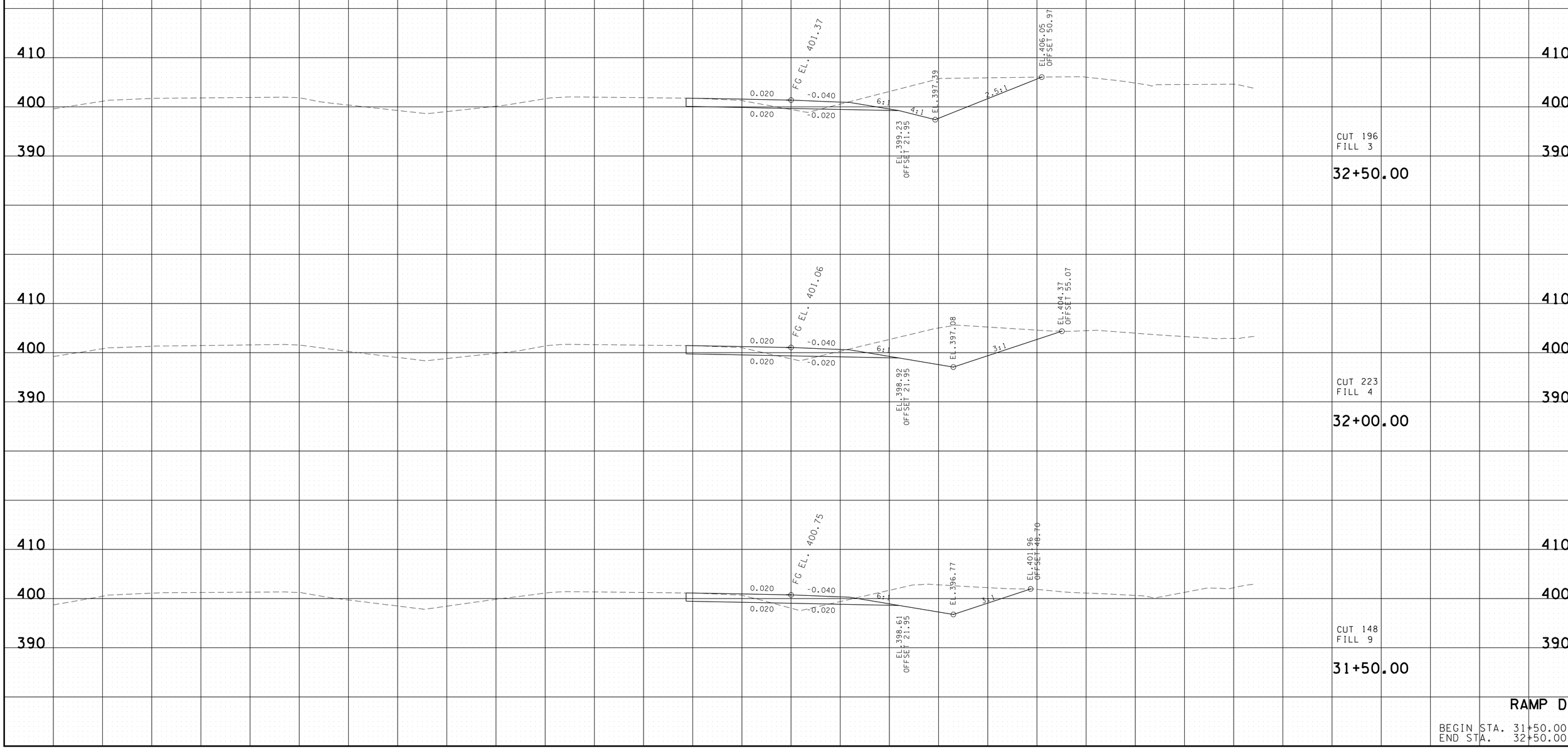
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	144

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 31+50.00
END STA. 32+50.00

2/24/2014 2:50:31PM
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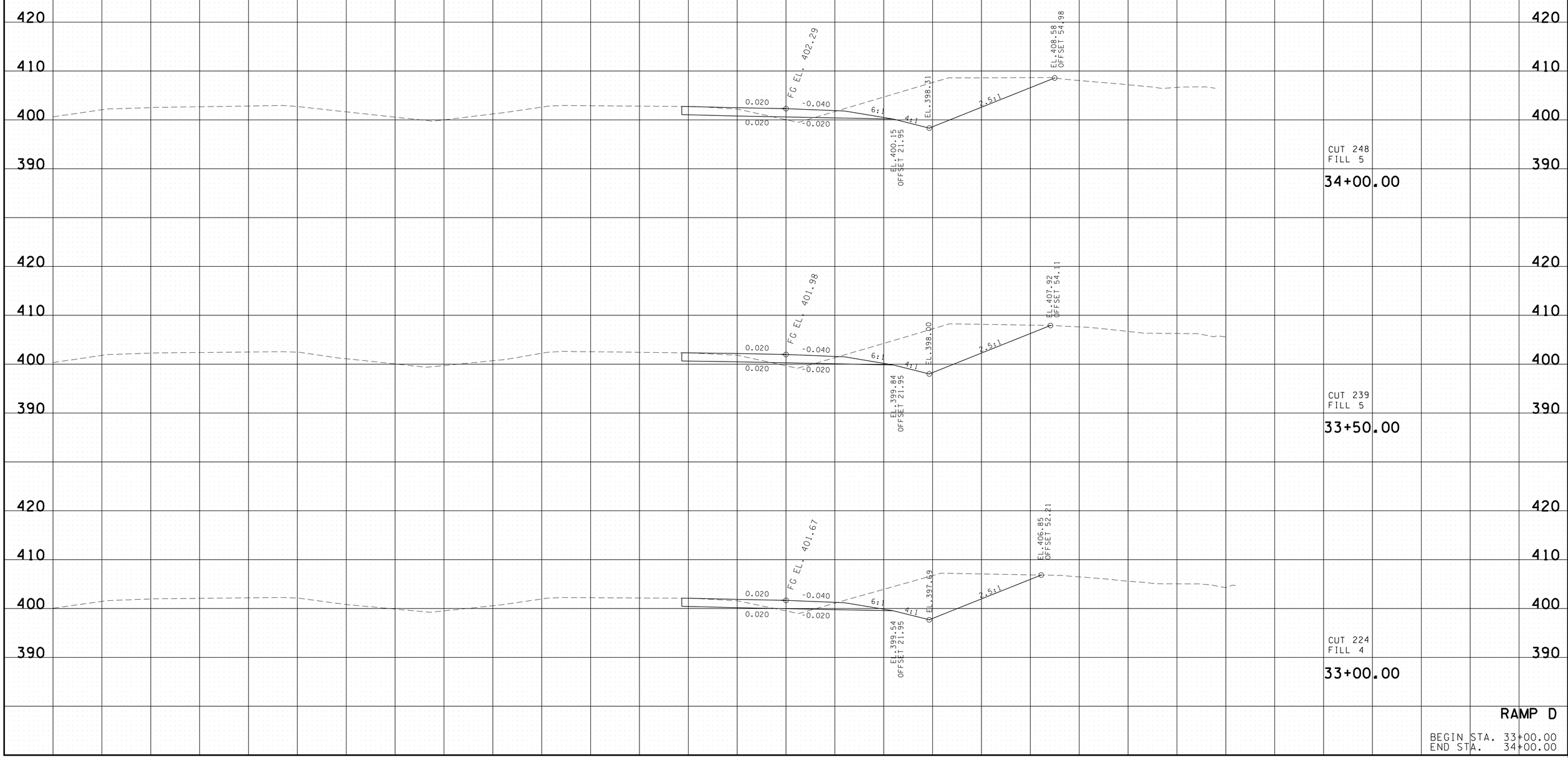
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	145

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP D

BEGIN STA. 33+00.00
END STA. 34+00.00

2/24/2014 2:50:35 PM
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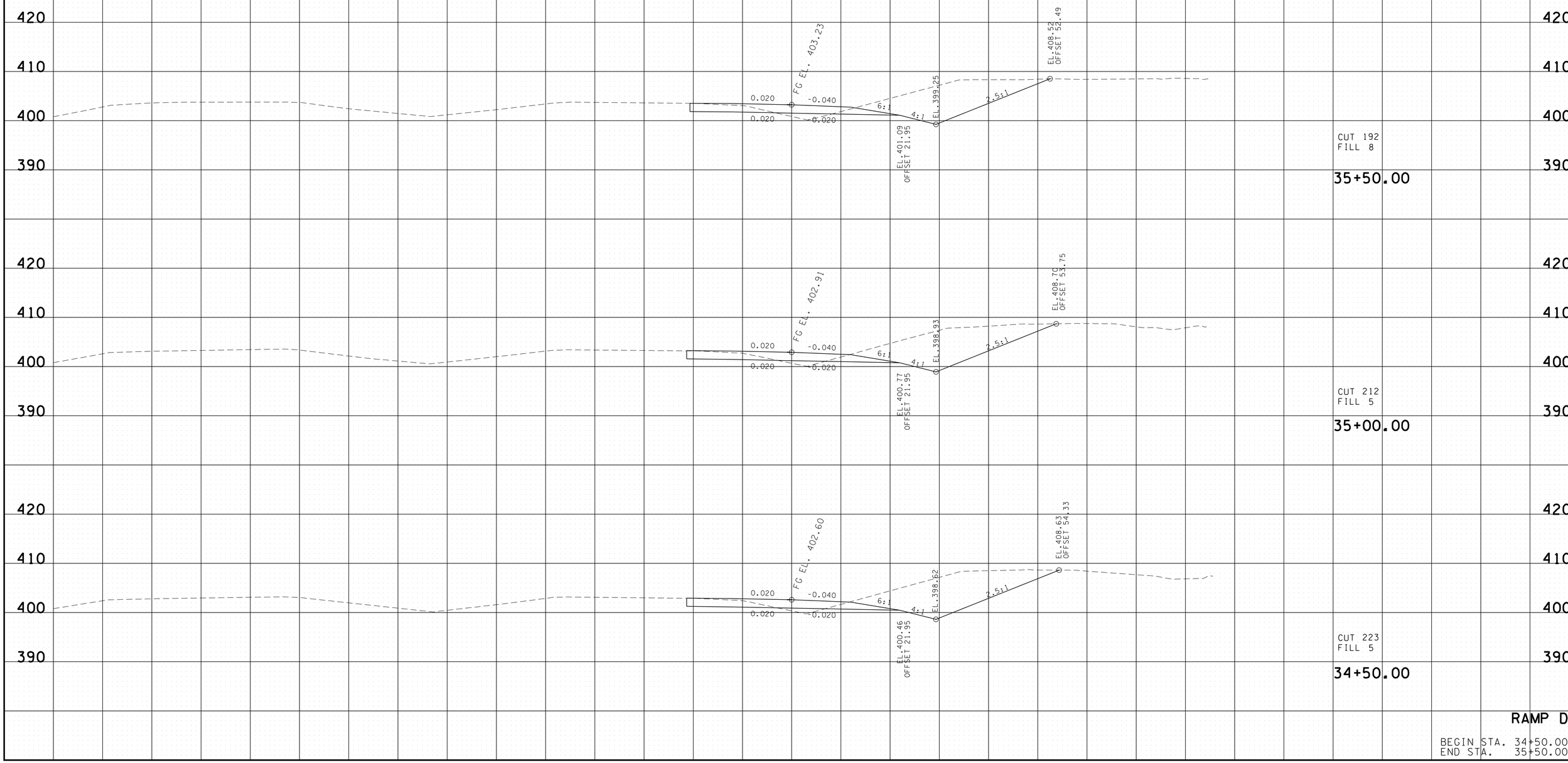
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	146

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D

BEGIN STA. 34+50.00
END STA. 35+50.00

2/24/2014 2:50:40 PM
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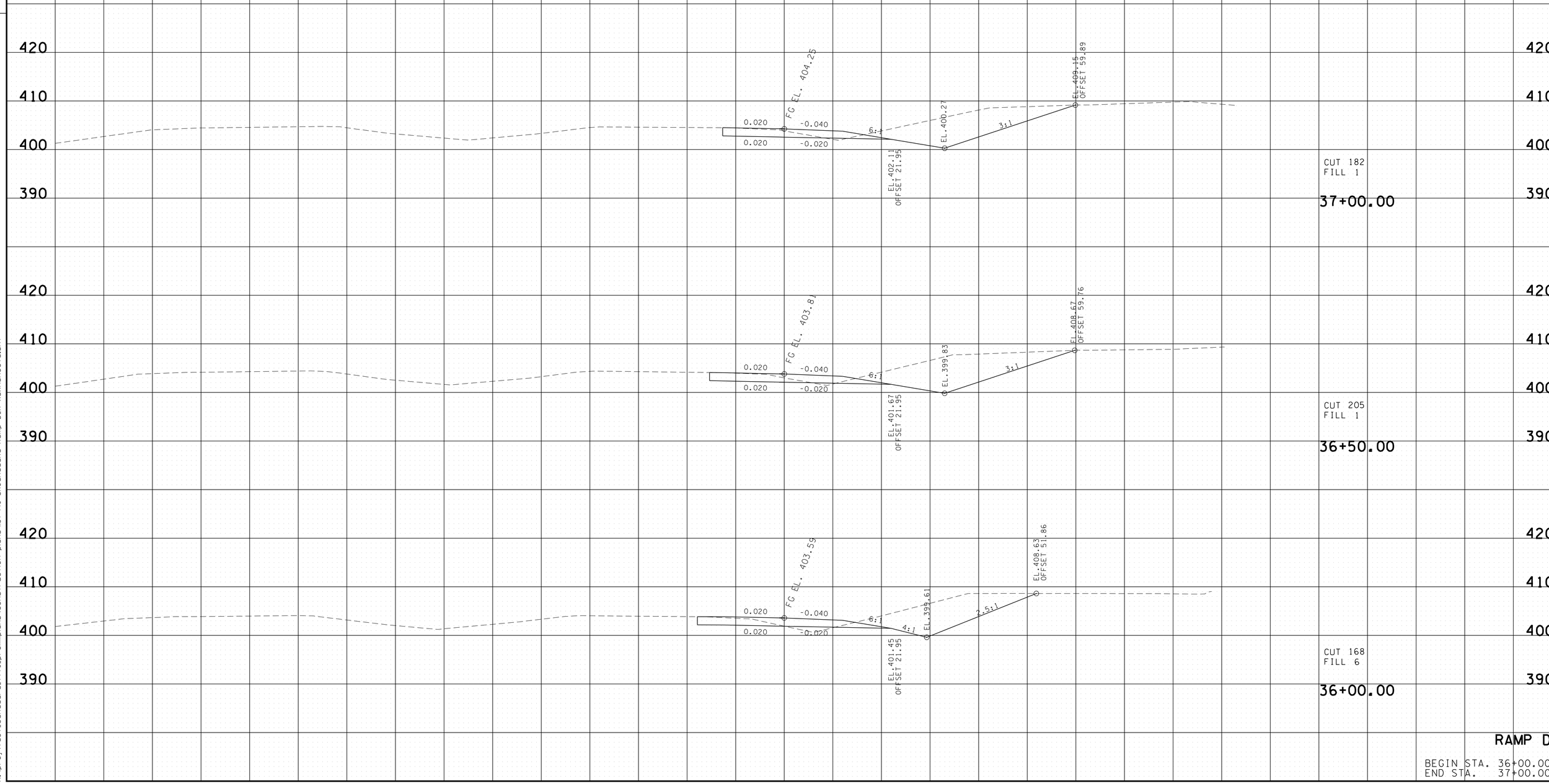
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	147

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP D

BEGIN STA. 36+00.00
END STA. 37+00.00

2/24/2014 2:50:44 PM
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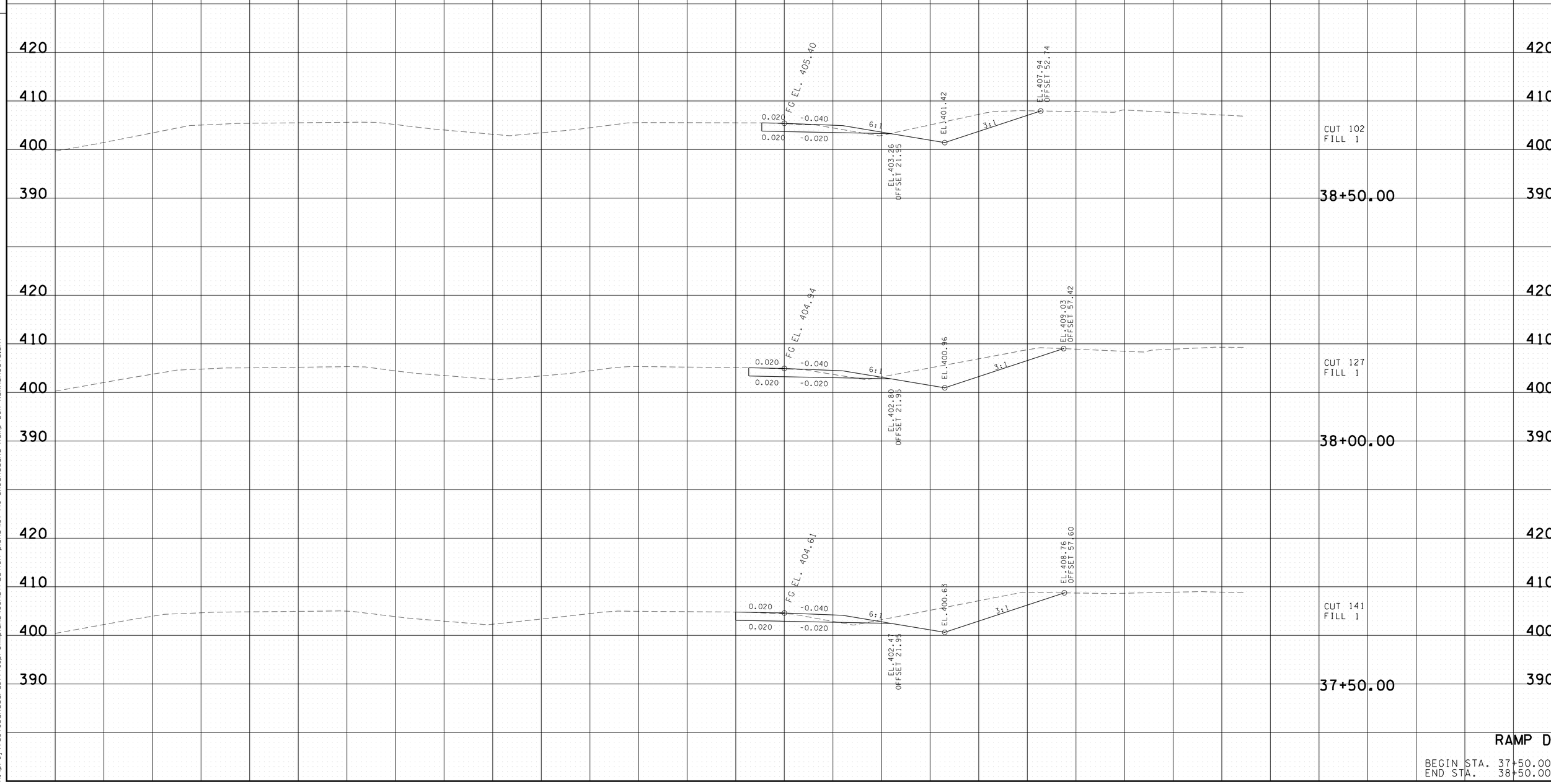
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	148

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP D

BEGIN STA. 37+50.00
END STA. 38+50.00

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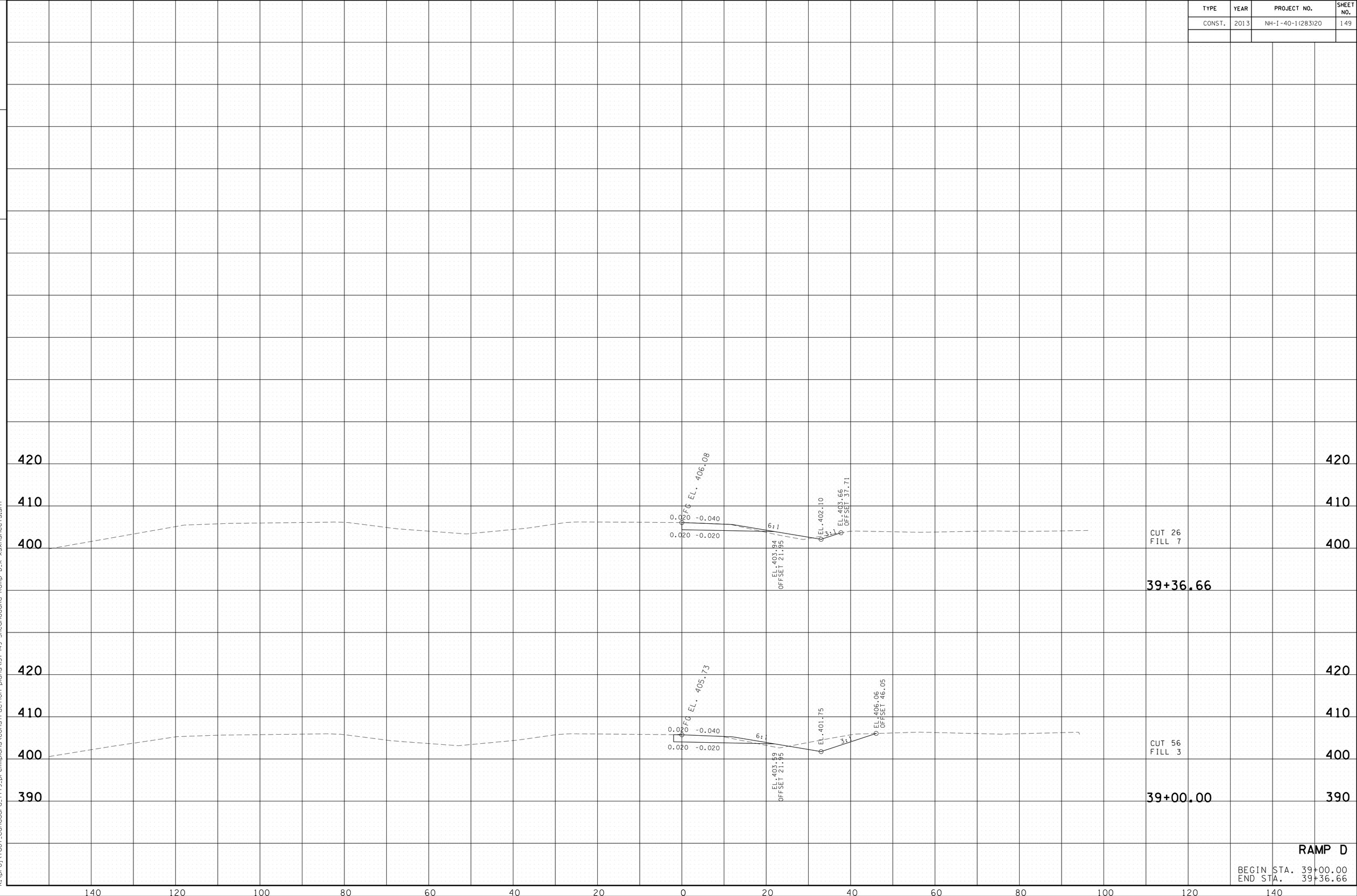
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	NH-I-40-1(283)20	149

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RAMP D

BEGIN STA. 39+00.00
END STA. 39+36.66

2/24/2014 2:50:52 PM
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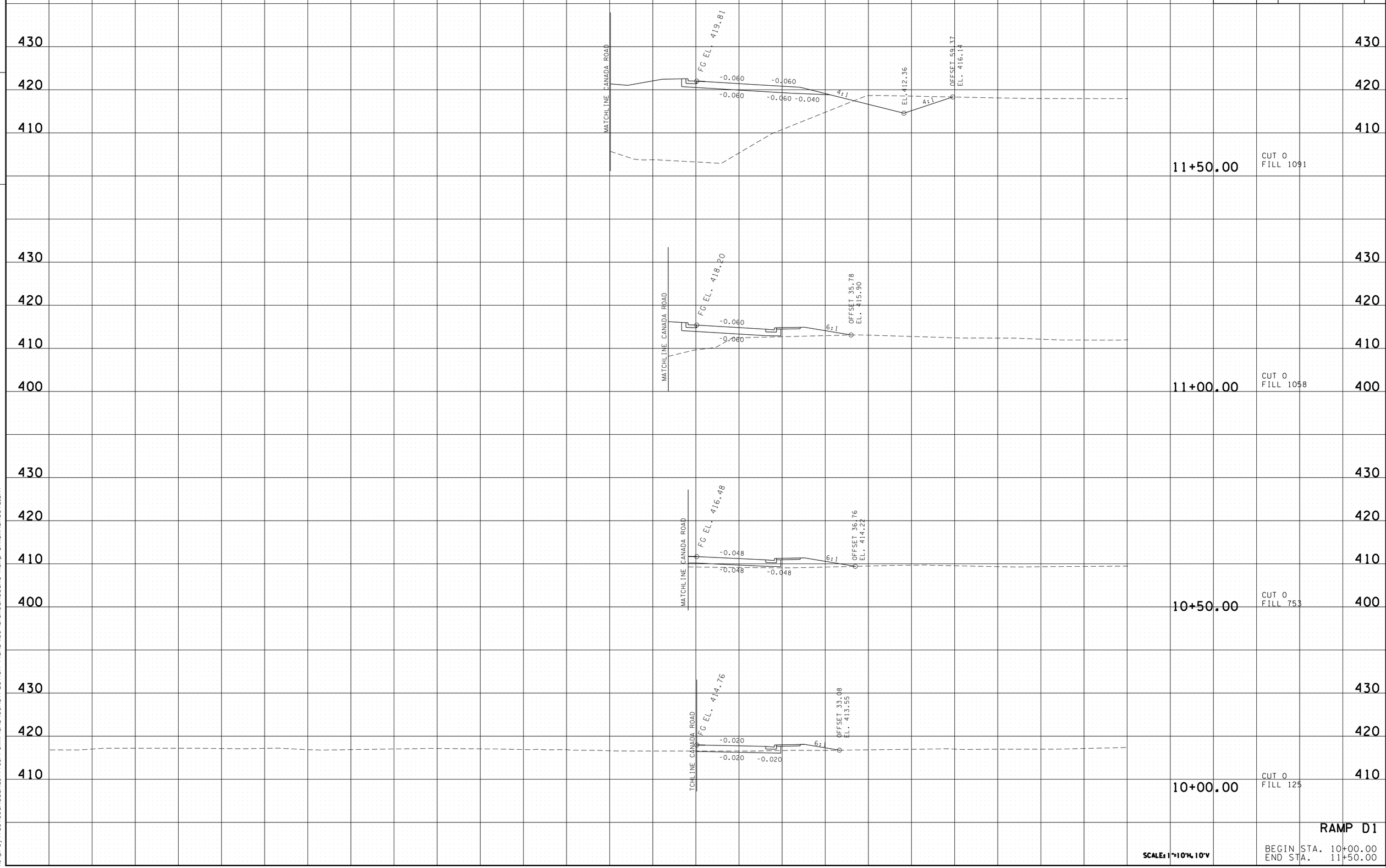
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	137
CONST.	2013	NH-I-40(283)20	150

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D1

SCALE: 1"=10'H, 10'V

BEGIN STA. 10+00.00
END STA. 11+50.00

2/26/2014 3:03:49 PM
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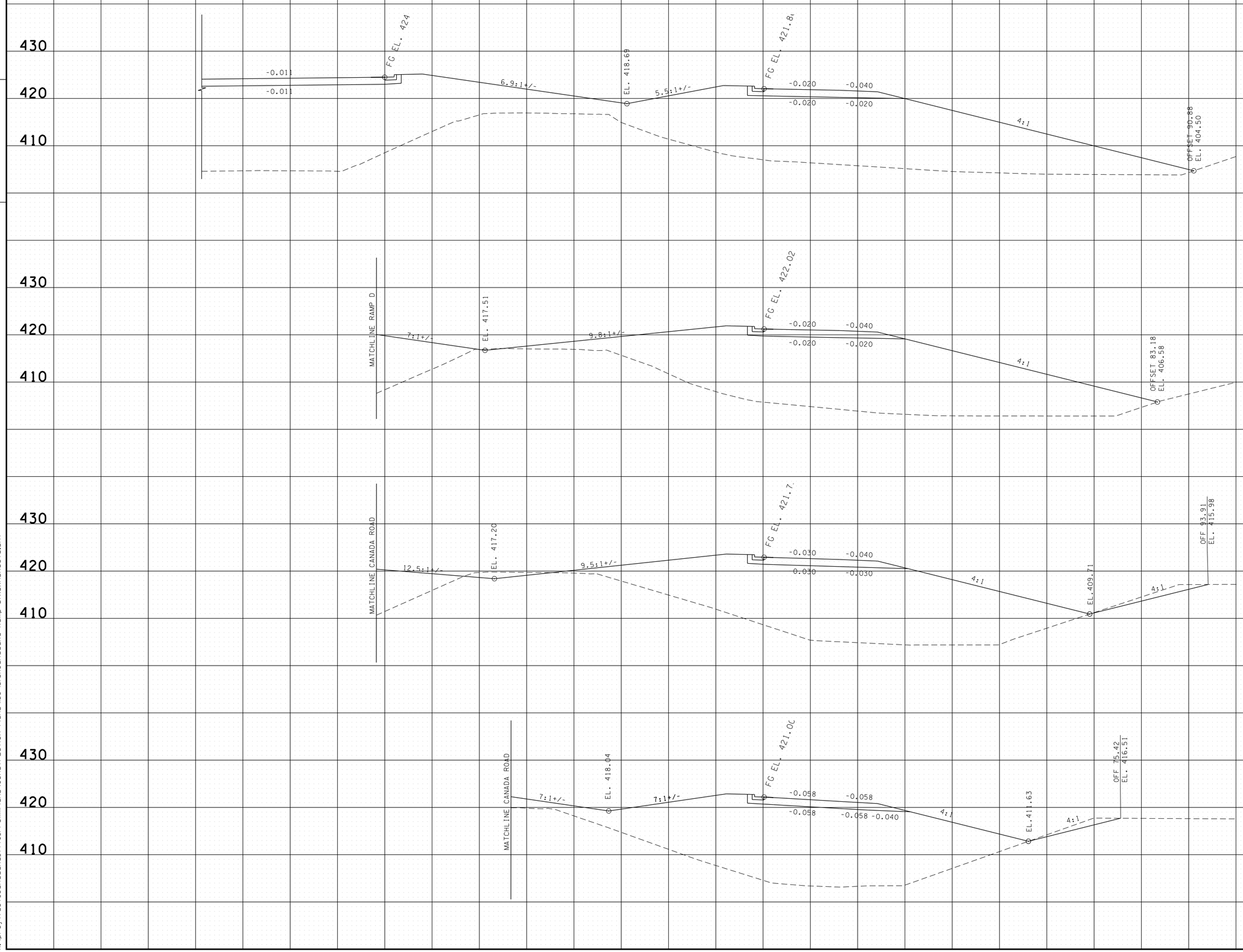
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	138
CONST.	2013	NH-I-40(283)20	151

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



RAMP D1

SCALE: 1"=10'H, 10'V

BEGIN STA. 12+00.00
END STA. 13+50.00

2/26/2014 3:04:28 PM
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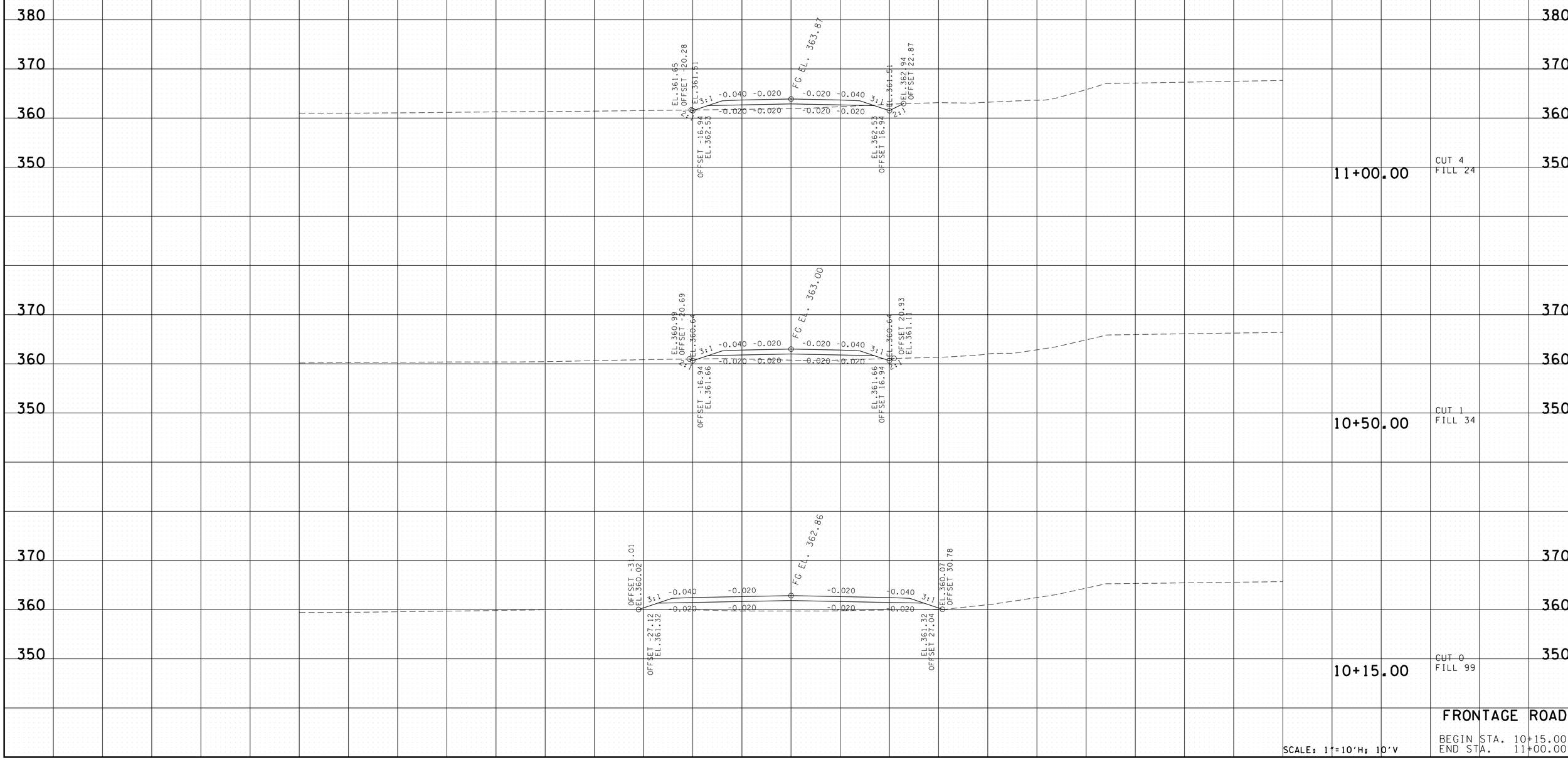
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	139
CONST.	2013	NH-I-40(283)20	152

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



FRONTAGE ROAD

BEGIN STA. 10+15.00
END STA. 11+00.00

SCALE: 1"=10'H; 10'V

2/24/2014 3:06:33 PM
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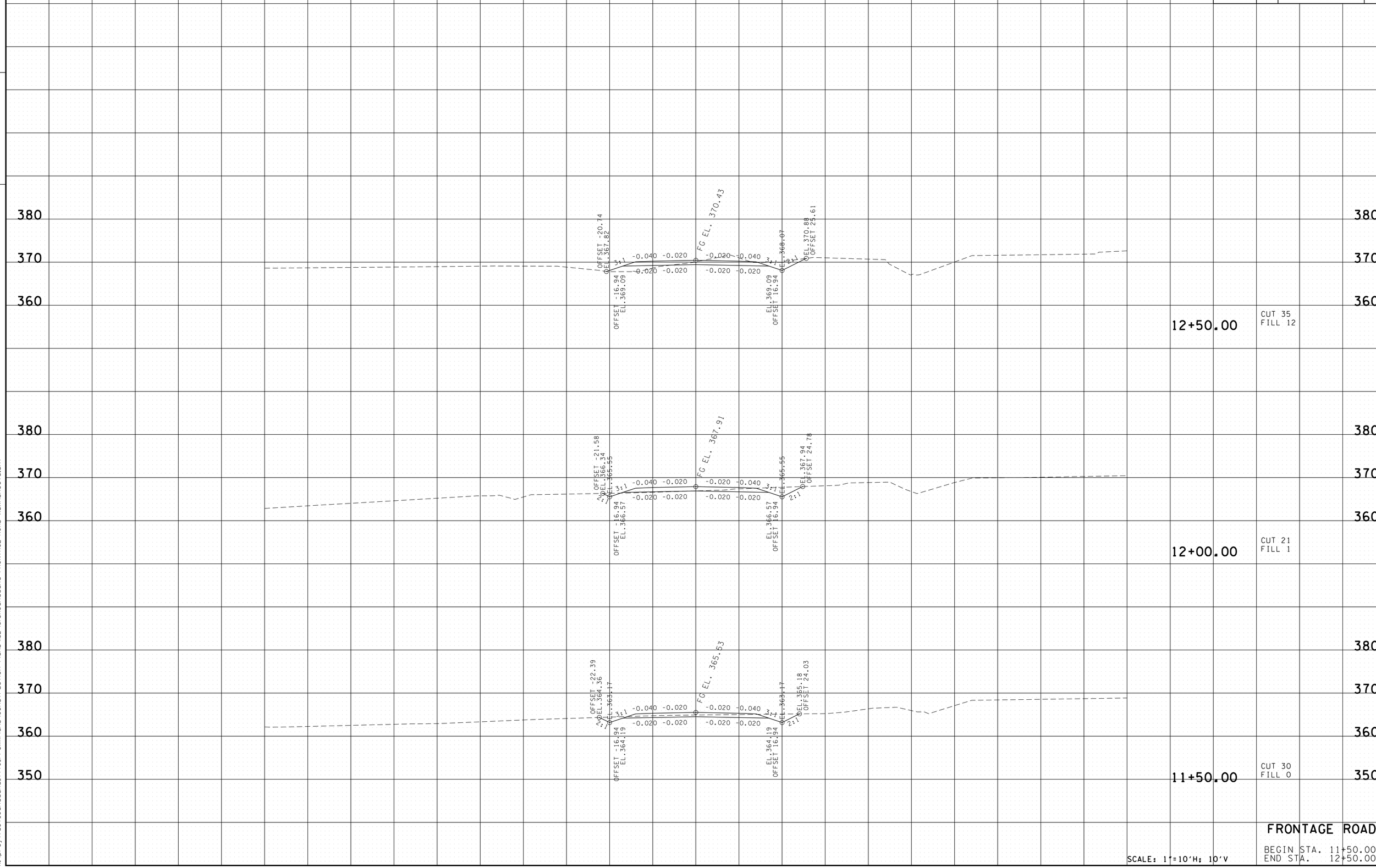
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	140
CONST.	2013	NH-I-40(283)20	153

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SCALE: 1"=10'H; 10'V

FRONTAGE ROAD

BEGIN STA. 11+50.00
END STA. 12+50.00

2/24/2014 3:06:38 PM
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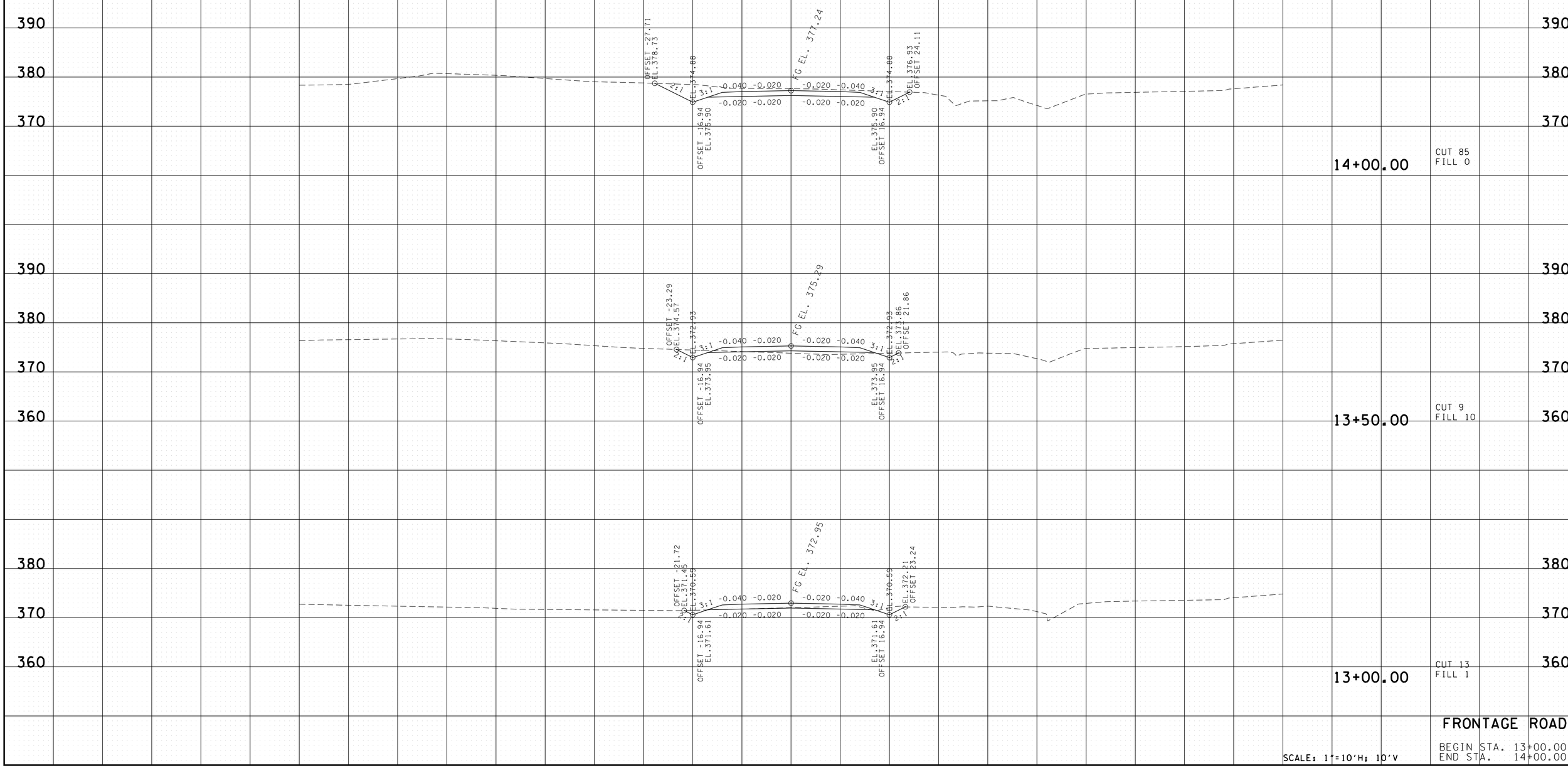
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	141
CONST.	2013	NH-I-40(283)20	154

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SCALE: 1"=10'H; 10'V

FRONTAGE ROAD

BEGIN STA. 13+00.00
END STA. 14+00.00

2/24/2014 3:06:42 PM
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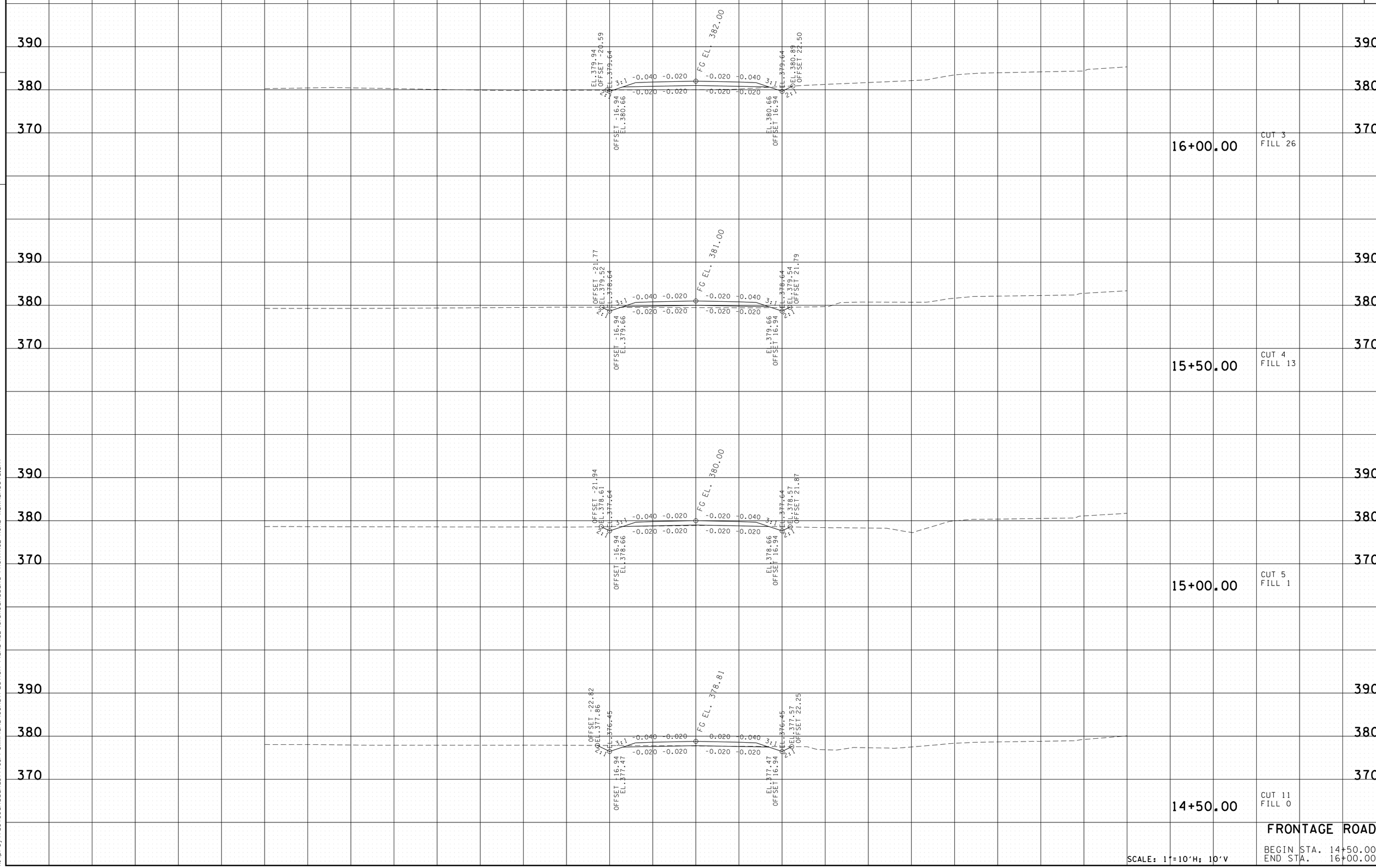
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	142
CONST.	2013	NH-I-40(283)20	155

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SCALE: 1"=10'H; 10'V

FRONTAGE ROAD

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END STA. 16+00.00

2/24/2014 3:06:46 PM
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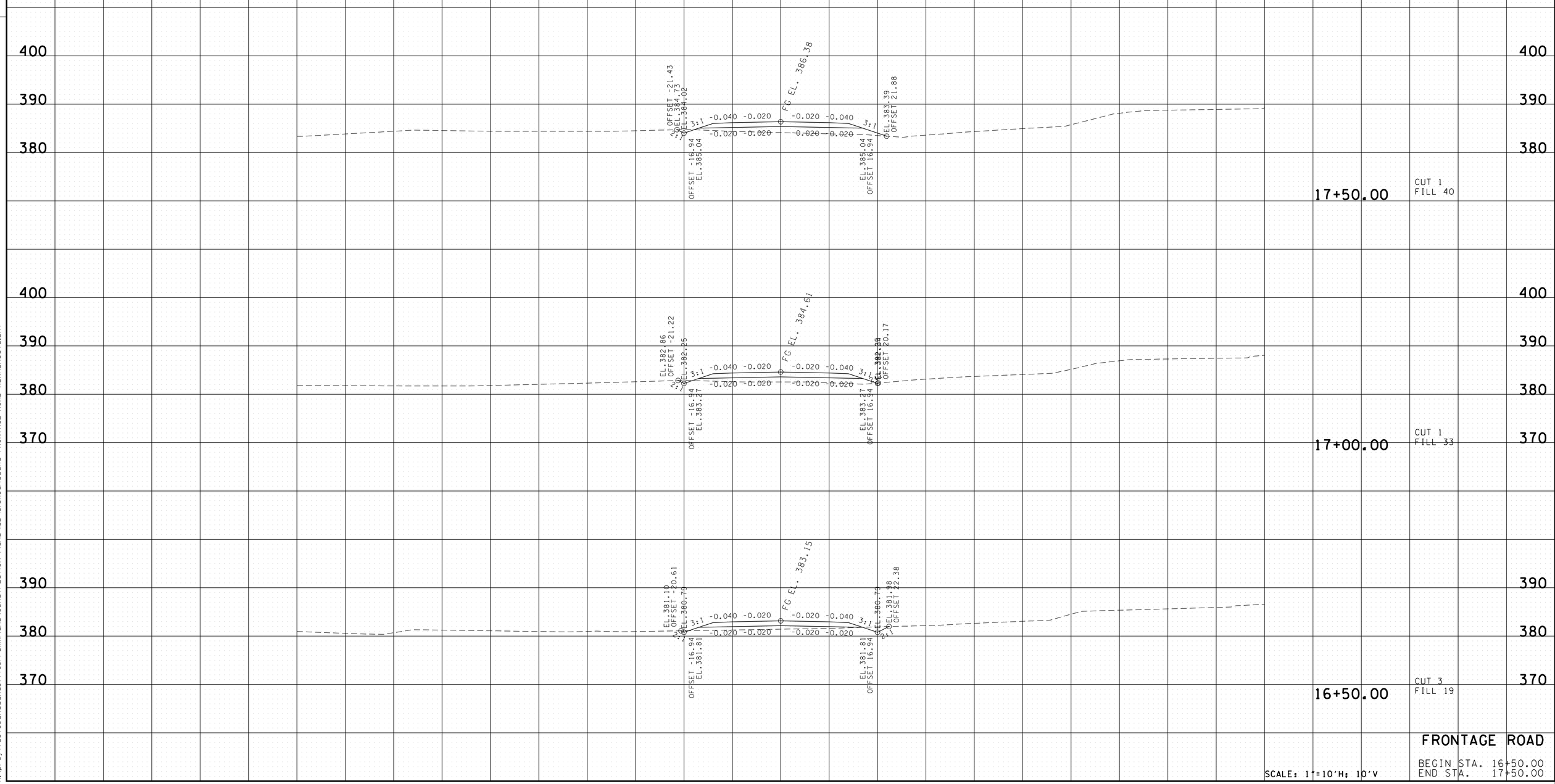
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	143
CONST.	2013	NH-I-40(283)20	156

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



FRONTAGE ROAD

BEGIN STA. 16+50.00
END STA. 17+50.00

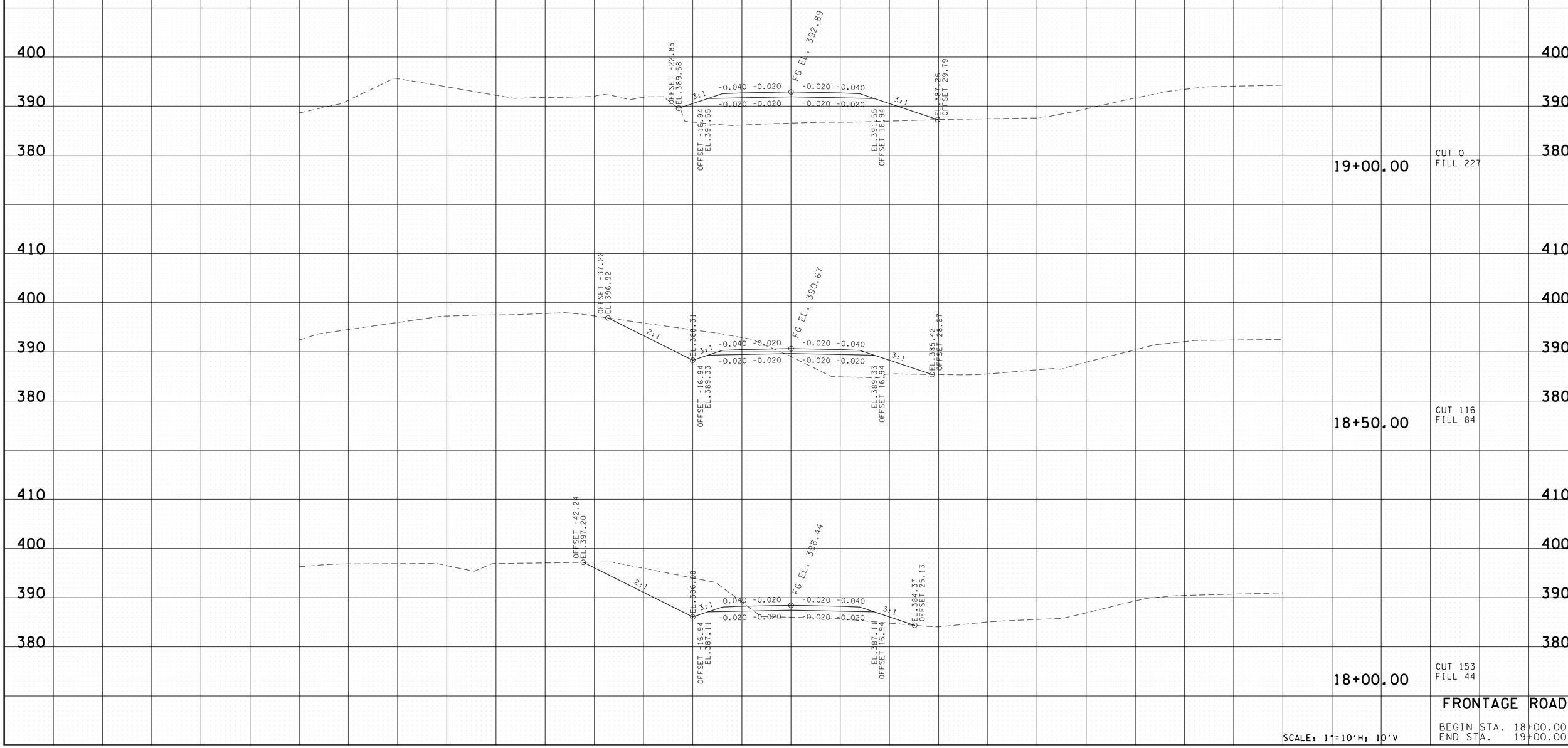
SCALE: 1"=10'H; 10'V

2/24/2014 3:06:51PM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\152-161SHCanadaRd FRONTAGE ROAD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	144
CONST.	2013	NH-I-40(283)20	157

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SCALE: 1"=10'H; 10'V

FRONTAGE ROAD

BEGIN STA. 18+00.00
END STA. 19+00.00

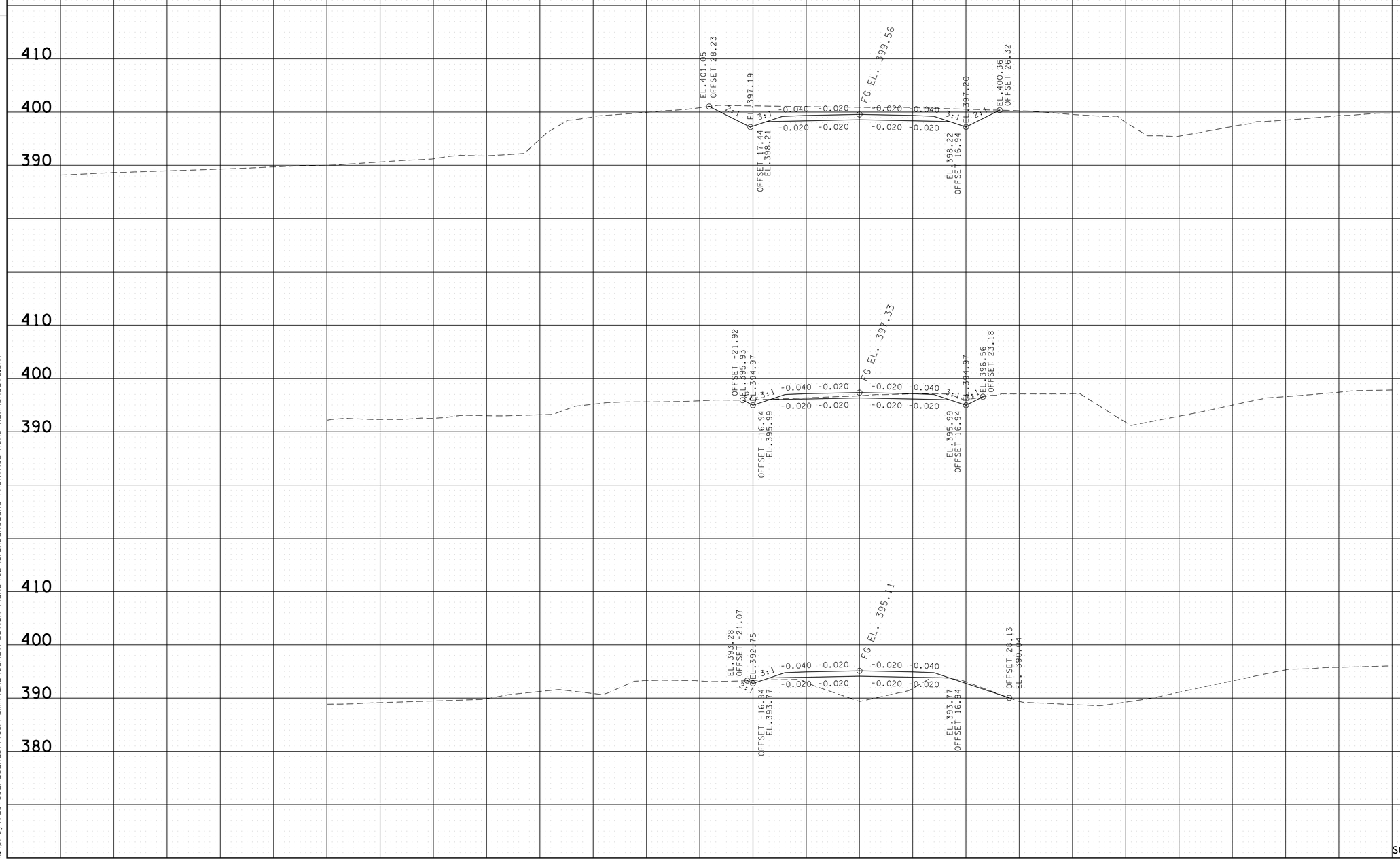
2/24/2014 3:06:55 PM
K:\proj\Tdot_CanadaRd_7779_PreliminPlans\Construction Plans\152-161SHCanadaRd FRONTAGE ROAD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	145
CONST.	2013	NH-I-40(283)20	158

REV. 11/29/2013 REVISED FRONTAGE ROAD CROSS SECTIONS TO REFLECT NEW ALIGNMENT AND LAYOUT.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



FRONTAGE ROAD

BEGIN STA. 19+50.00
END STA. 20+50.00

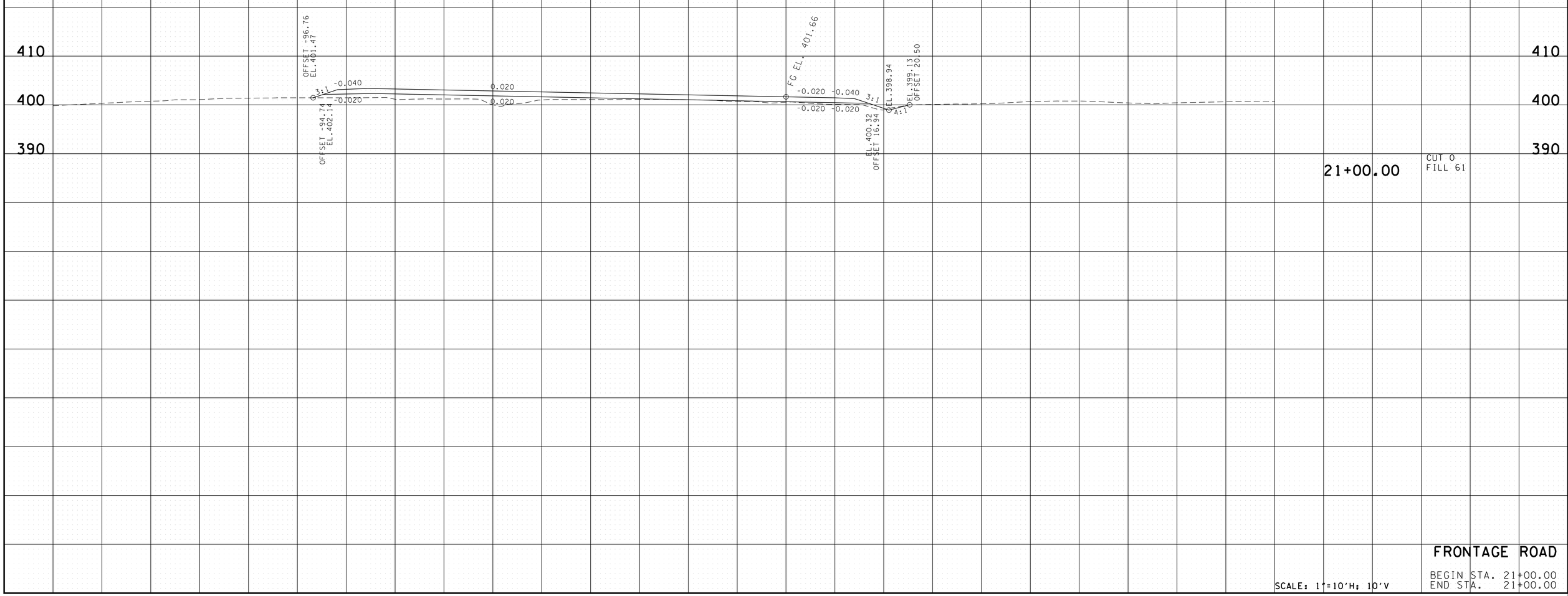
SCALE: 1"=10'H; 10'V

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2/24/2014 3:06:59 PM
K:\proj\Tdot_CanadaRd_7779_PreliminPlans\Construction Plans\152-161SHCanadaRd FRONTAGE ROAD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	146
CONST.	2013	NH-I-40(283)20	159

REV. 11/29/2013 REVISED FRONTAGE ROAD CROSS SECTIONS TO REFLECT NEW ALIGNMENT AND LAYOUT.



SCALE: 1"=10'H; 10'V

FRONTAGE ROAD

BEGIN STA. 21+00.00
END STA. 21+00.00

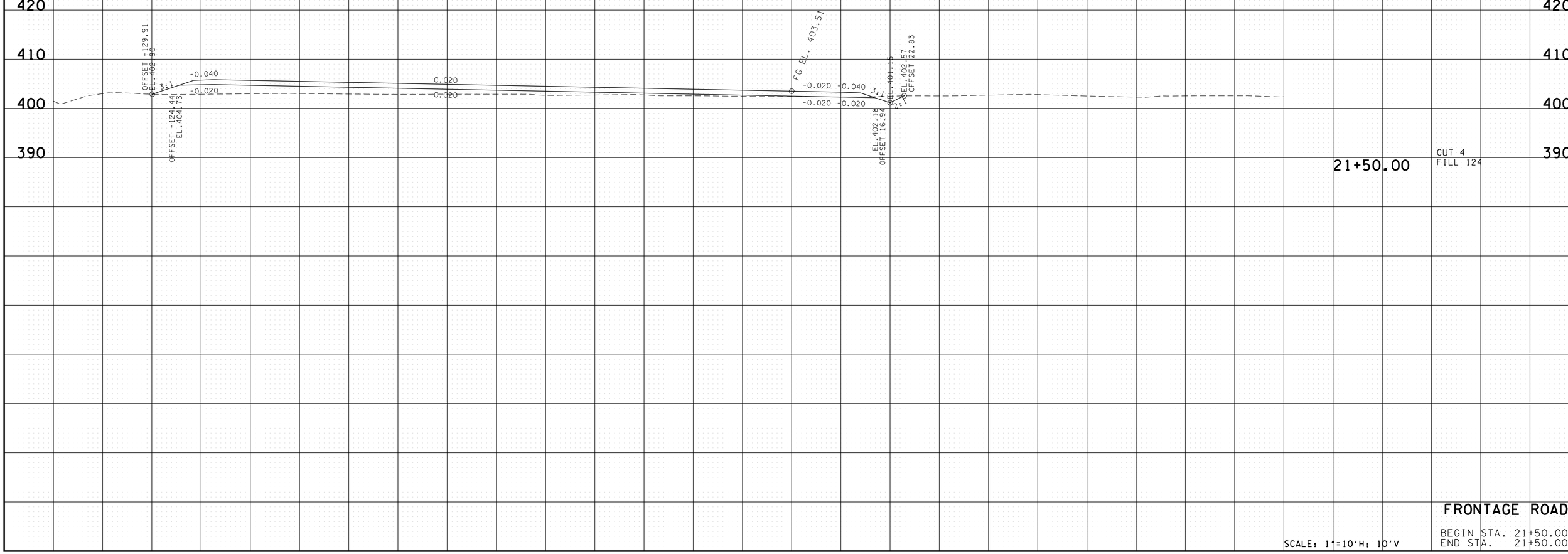
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

2/24/2014 3:07:03 PM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\152-16\ShCanadaRd FRONTAGE ROAD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	147
CONST.	2013	NH-I-40(283)20	160

REV. 11/29/2013 REVISED FRONTAGE ROAD CROSS SECTIONS TO REFLECT NEW ALIGNMENT AND LAYOUT.



FRONTAGE ROAD

BEGIN STA. 21+50.00
END STA. 21+50.00

SCALE: 1"=10'H; 10'V

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

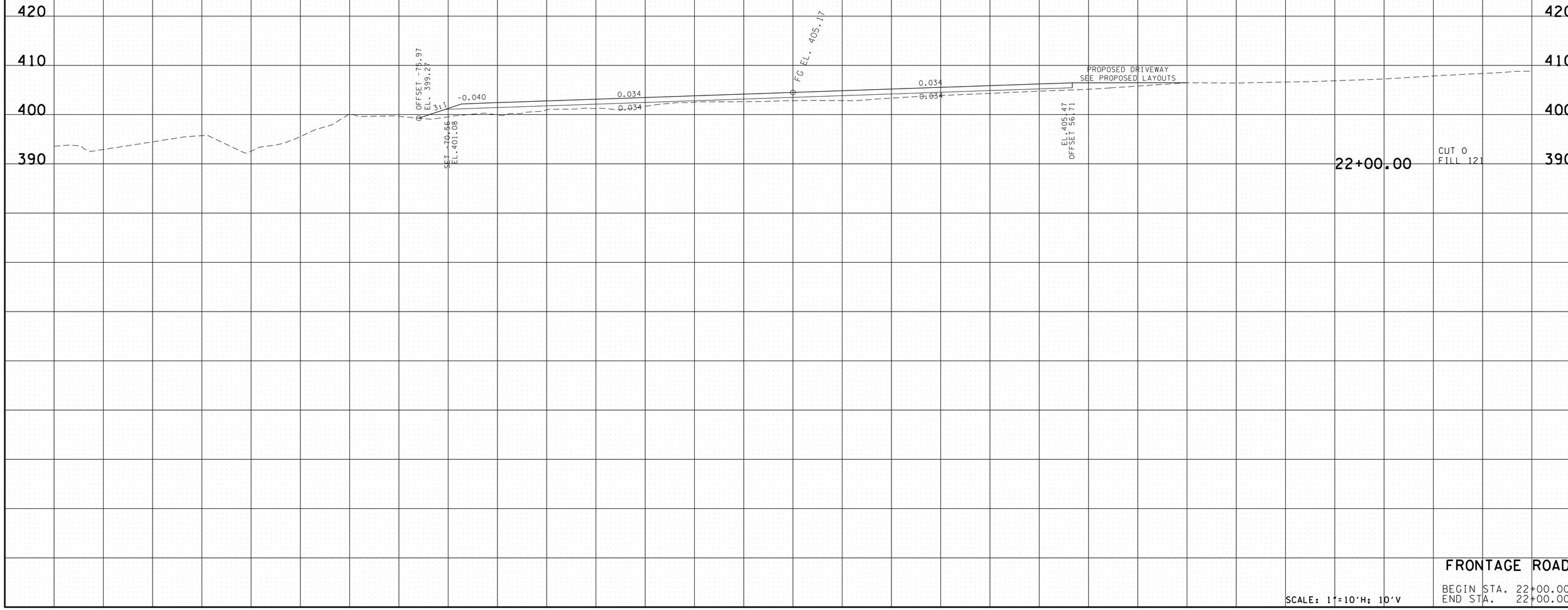
2/24/2014 3:07:08 PM
K:\proj\Tdot_CanadaRd_7779_PrelimPlans\Construction Plans\52-16ISHCanadaRd FRONTAGE ROAD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	148
CONST.	2013	NH-I-40(283)20	161

REV. 11/29/2013 REVISED FRONTAGE ROAD CROSS SECTIONS TO REFLECT NEW ALIGNMENT AND LAYOUT.

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SCALE: 1"=10'H; 10'V

FRONTAGE ROAD

BEGIN STA. 22+00.00
END STA. 22+00.00

2/24/2014 3:07:12 PM
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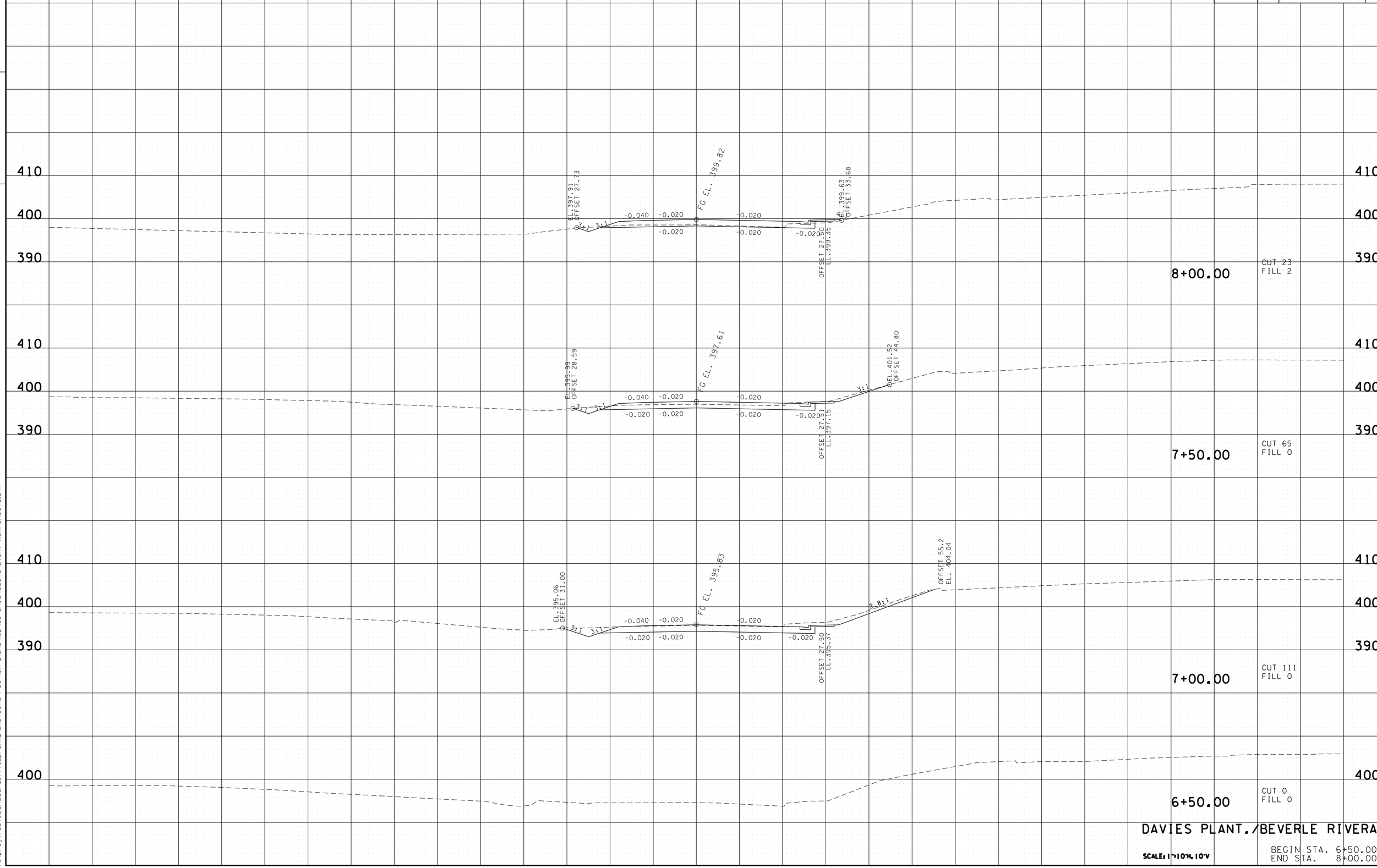
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	149
CONST.	2013	NH-I-40-1(283)20	162

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



DAVIES PLANT./BEVERLE RIVERA

SCALE: 1"=10'H, 10'V

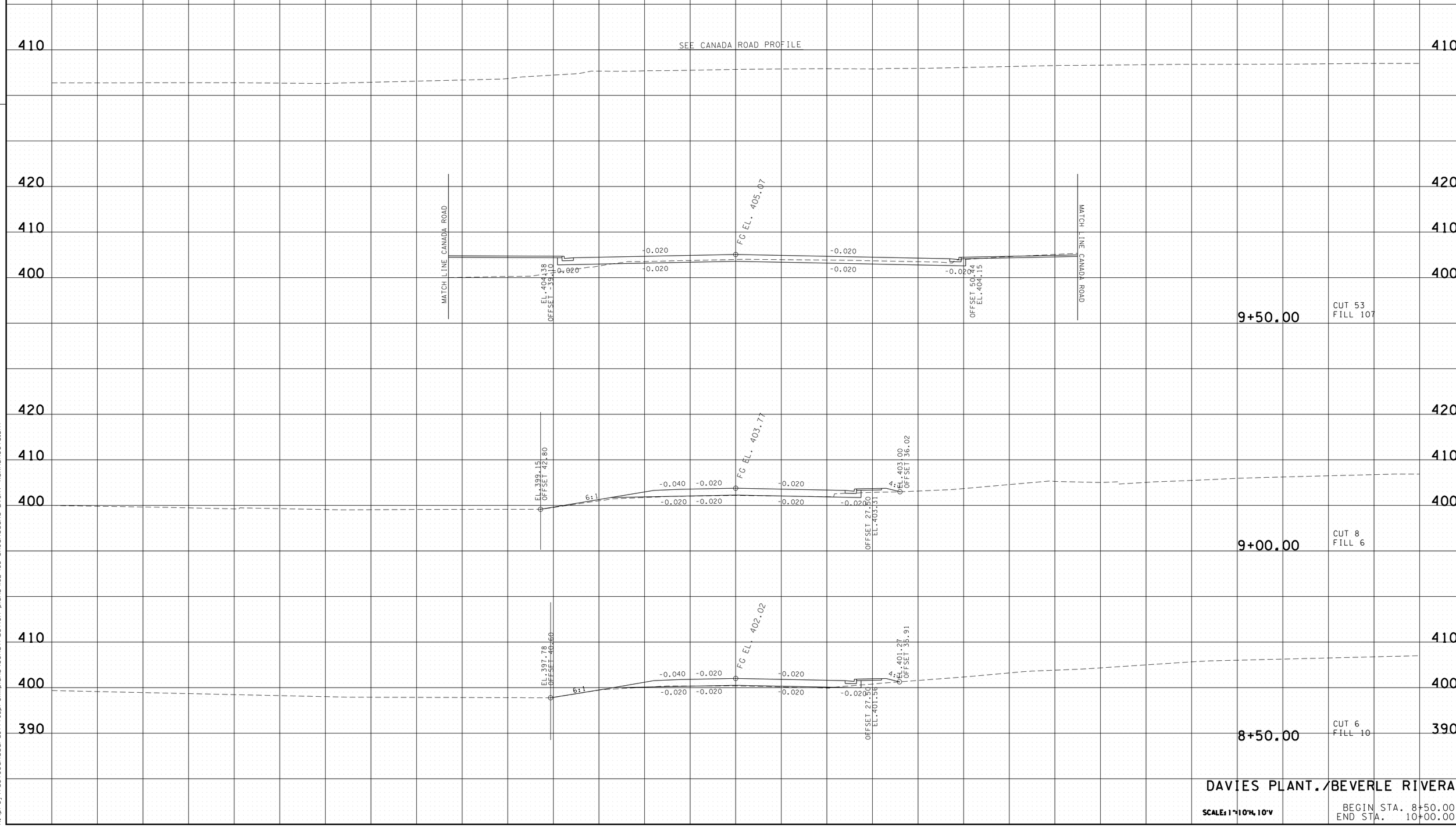
BEGIN STA. 6+50.00
END STA. 8+00.00

2/24/2014 3:02:48 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\162-165 SHCanadaRd BV_RV xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	150
CONST.	2013	NH-I-40-1(283)20	163

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



DAVIES PLANT./BEVERLE RIVERA

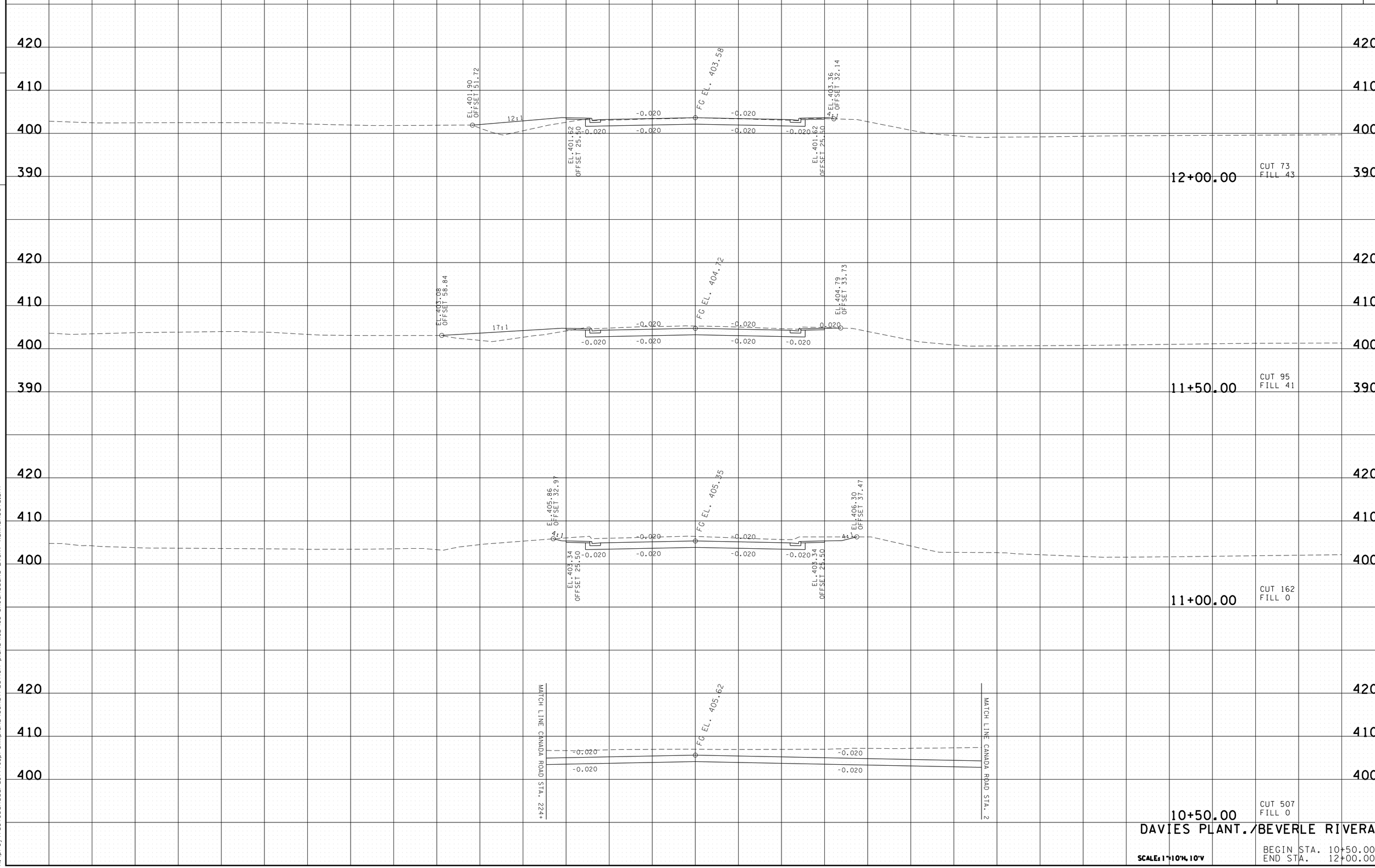
SCALE: 1"=10'H, 10'V

BEGIN STA. 8+50.00
END STA. 10+00.00

2/24/2014 3:02:53 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\162-165 SHCanadaRd BV_RV xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	151
CONST.	2013	NH-I-40-I(283)20	164

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



DAVIES PLANT./BEVERLE RIVERA

SCALE: 1"=10'H, 10'V

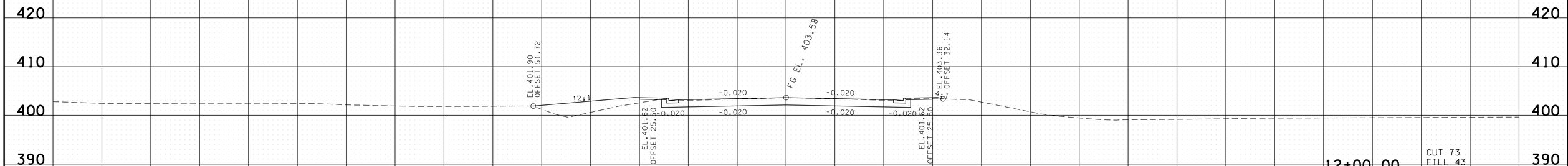
BEGIN STA. 10+50.00
END STA. 12+00.00

2/24/2014 3:02:57 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\162-i65 SHCanadaRd BV_RV xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	IM-40-I(316)	152
CONST.	2013	NH-I-40-1(283)20	165

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



DAVIES PLANT./BEVERLE RIVERA

SCALE: 1"=10'H, 10'V

BEGIN STA. 12+50.00
END STA. 13+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

2/26/2014 2:44:53 PM
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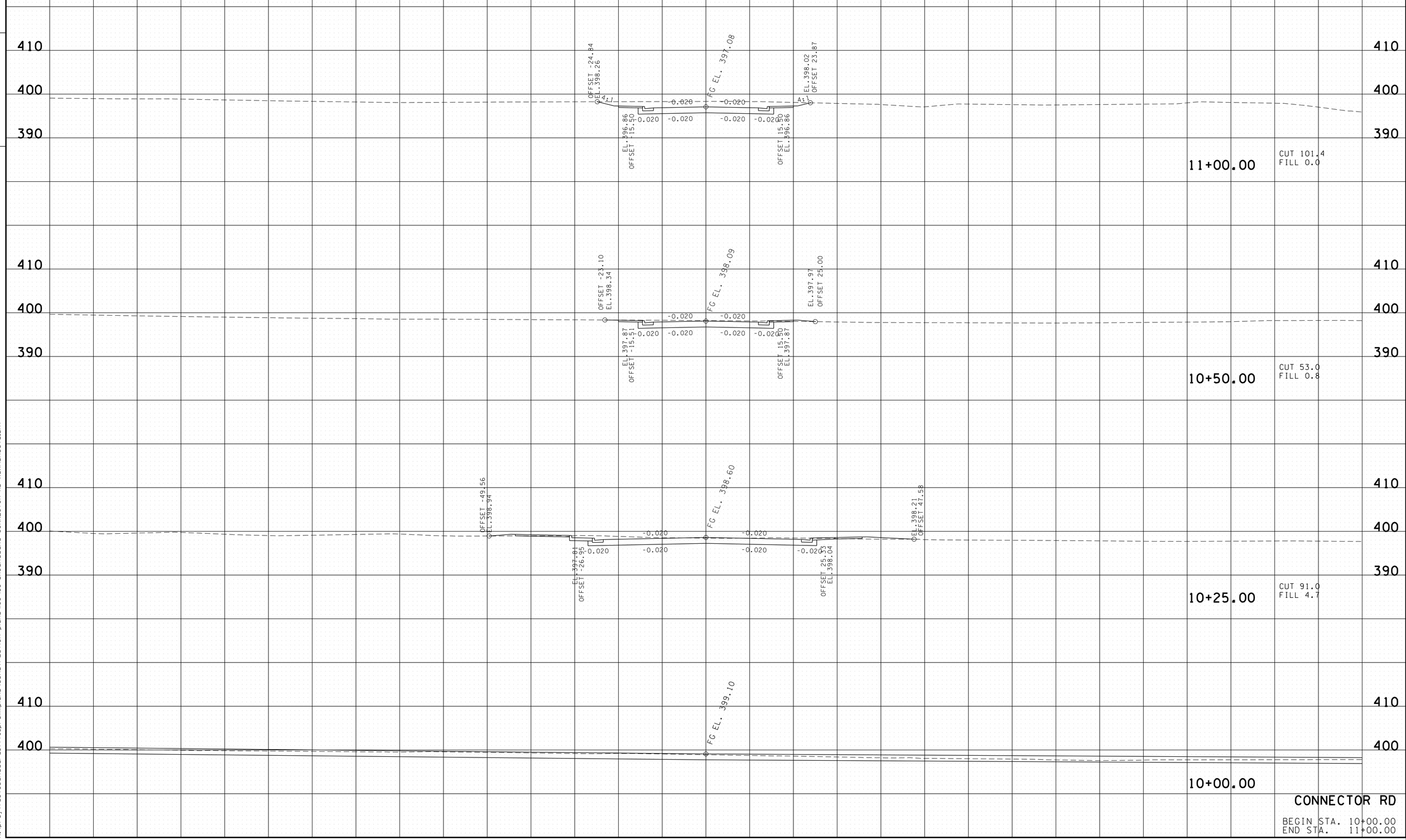
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	IM-40-I(316)	153
CONST.	2013	NH-I-40-1(283)20	166

REV. 05/17/2013 CROSS SECTIONS REFLECT NEW CONNECTOR ROAD ALIGNMENT

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



CONNECTOR RD

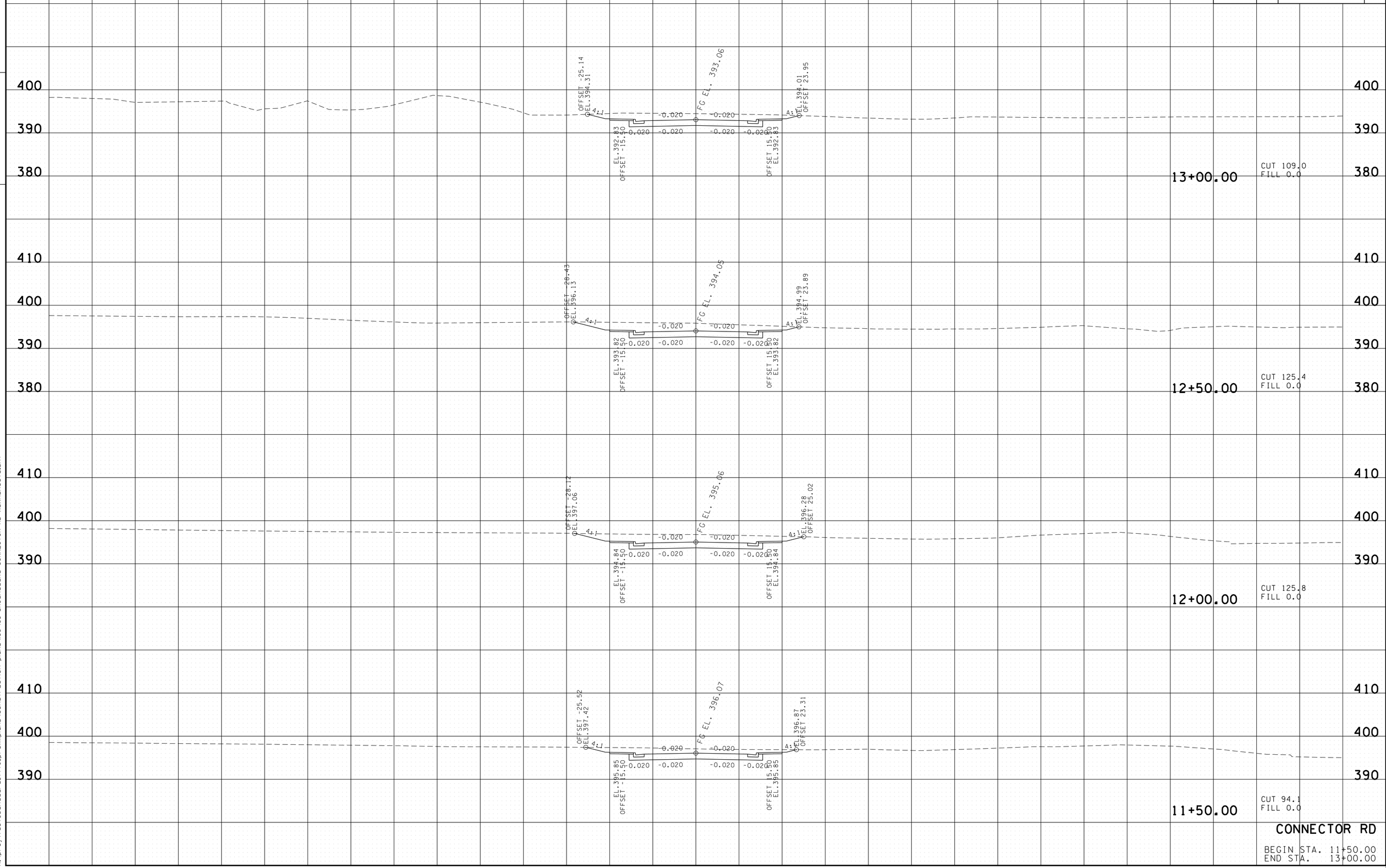
BEGIN STA. 10+00.00
END STA. 11+00.00

2/24/2014 3:03:06 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\I66-I68 SHCanadaRd CONNECTOR RD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	IM-40-I(316)	154
CONST.	2013	NH-I-40-1(283)20	167

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



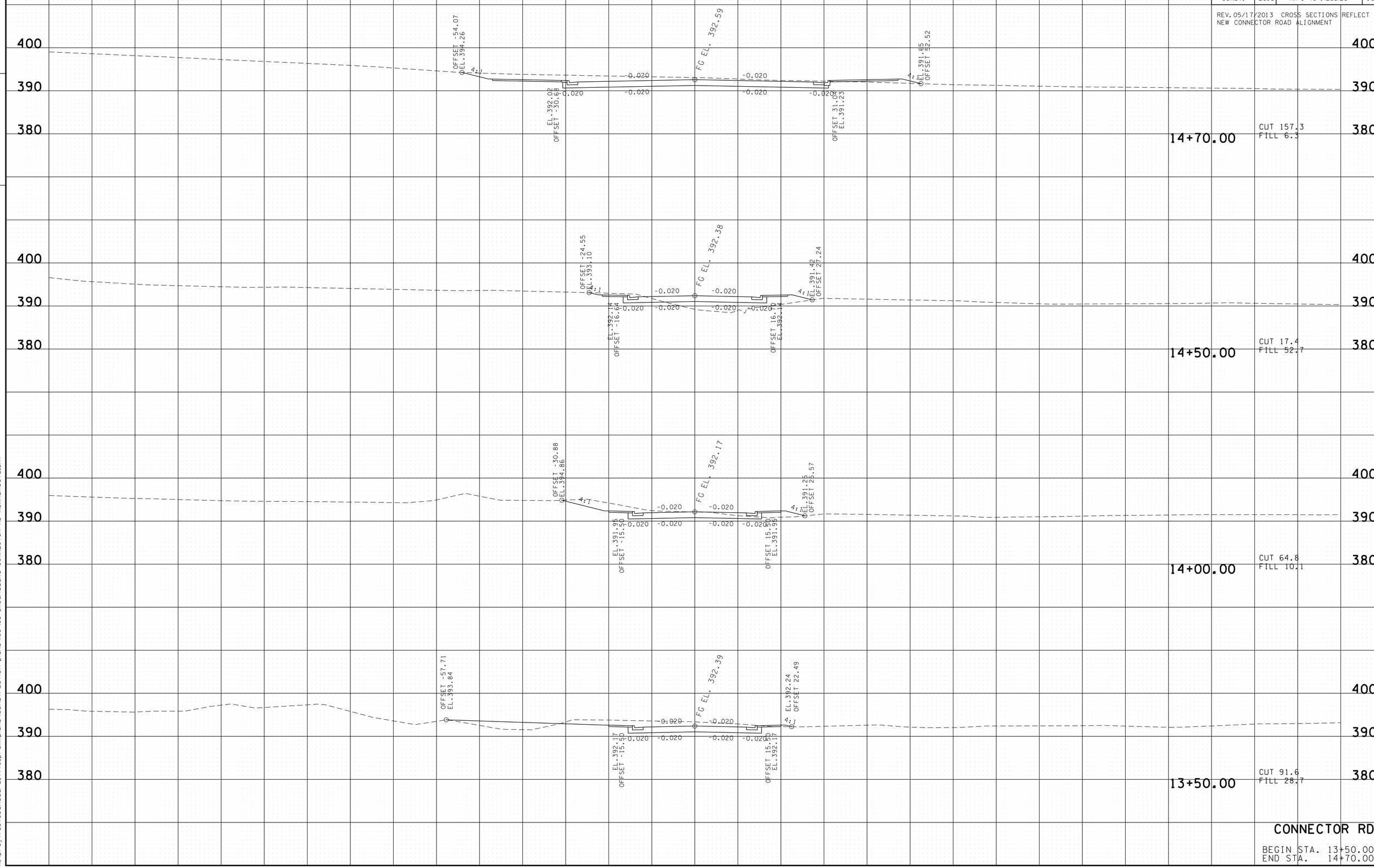
CONNECTOR RD

BEGIN STA. 11+50.00
END STA. 13+00.00

2/24/2014 3:03:10 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\I66-I68 SHCanadaRd CONNECTOR RD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	IM-40-I(316)	155
CONST.	2013	NH-I-40-I(283)20	168

REV. 05/17/2013 CROSS SECTIONS REFLECT NEW CONNECTOR ROAD ALIGNMENT



FILE NO.

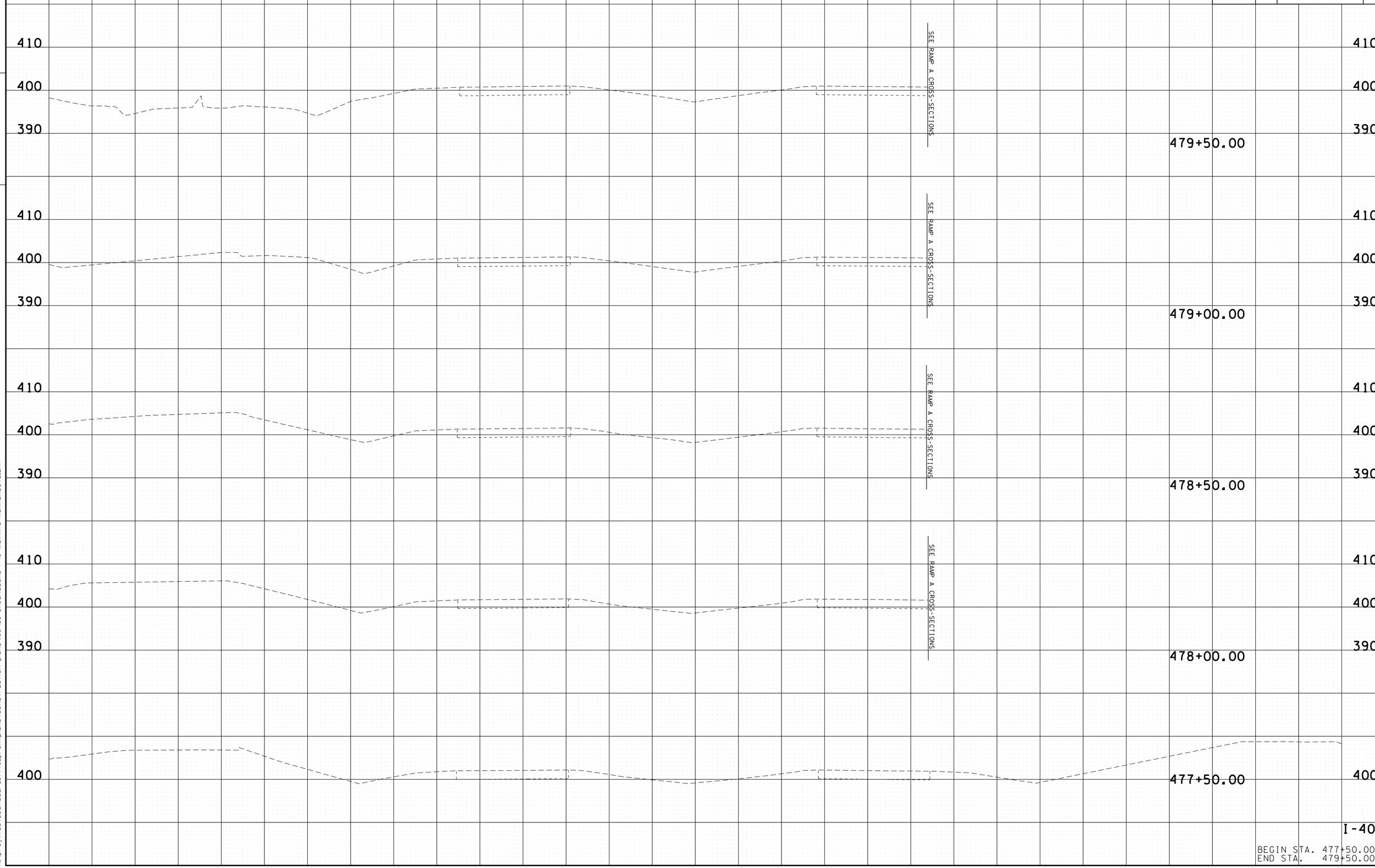
TENNESSEE D.O.T.
DESIGN DIVISION

CONNECTOR RD

BEGIN STA. 13+50.00
END STA. 14+70.00

2/24/2014 3:03:15 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\166-168 SHCanadaRd CONNECTOR RD xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	169



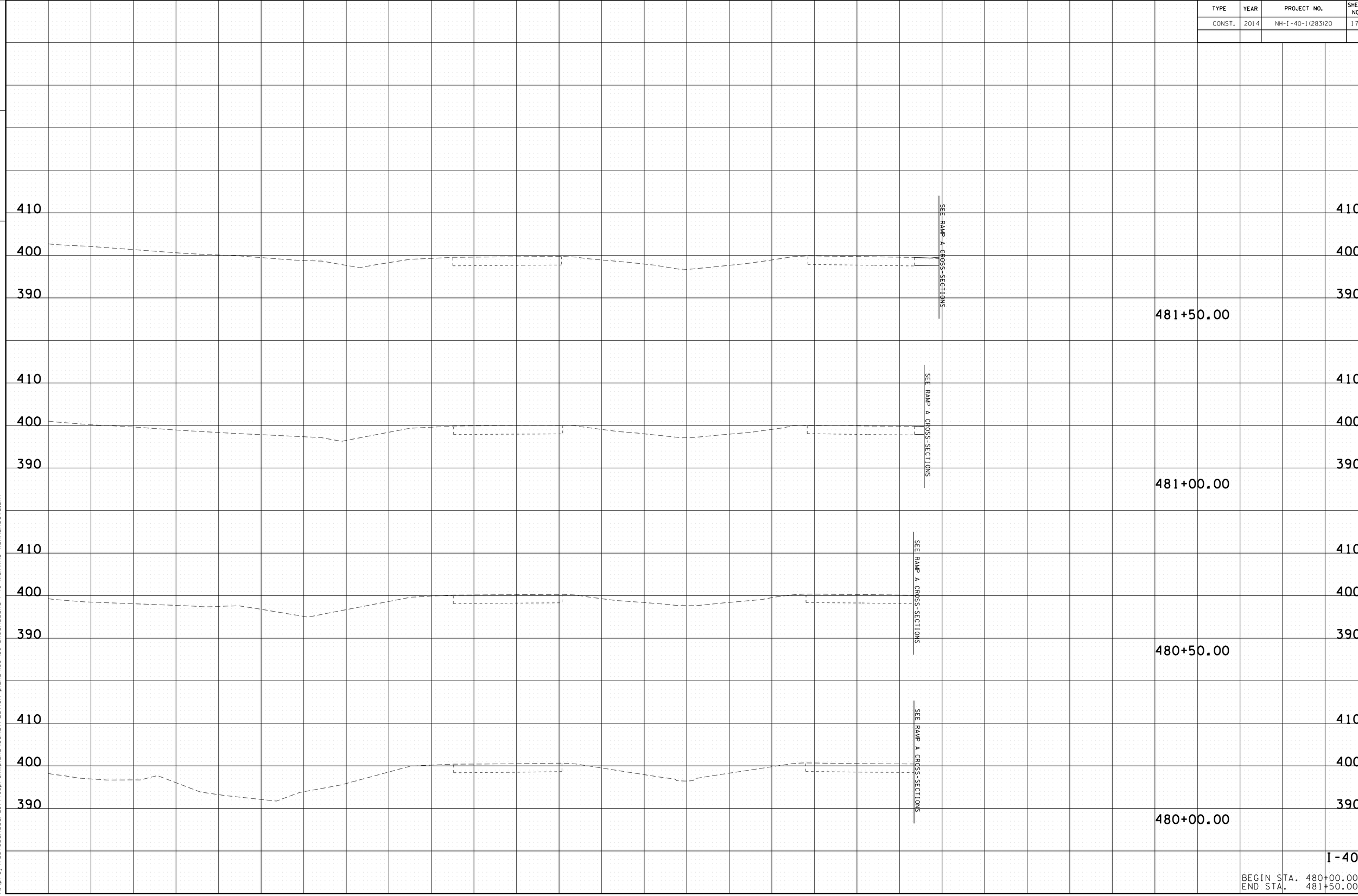
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

2/24/2014 3:03:22 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\169-189 SHCanadaRd I-40 Mainline xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	170

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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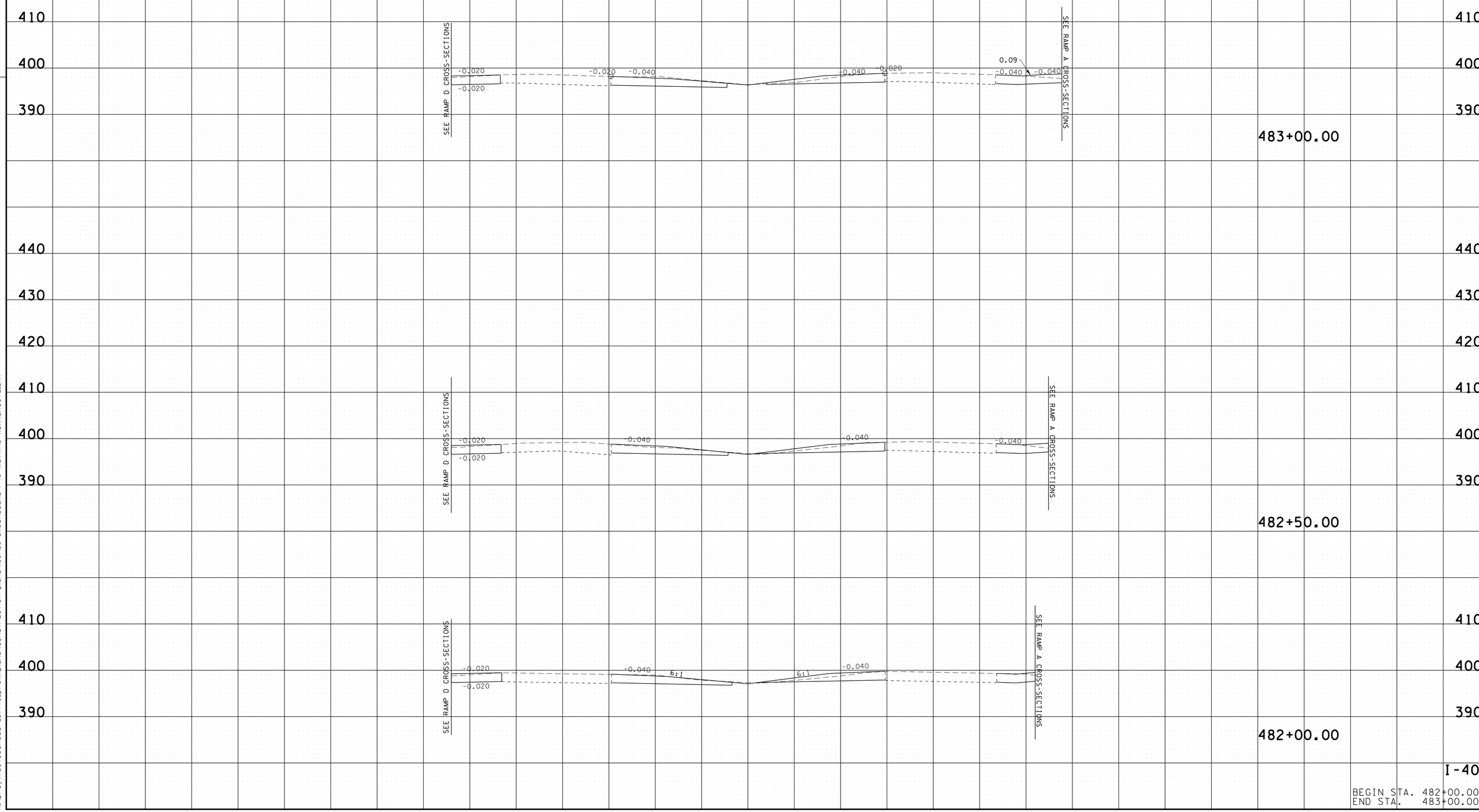
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	171

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

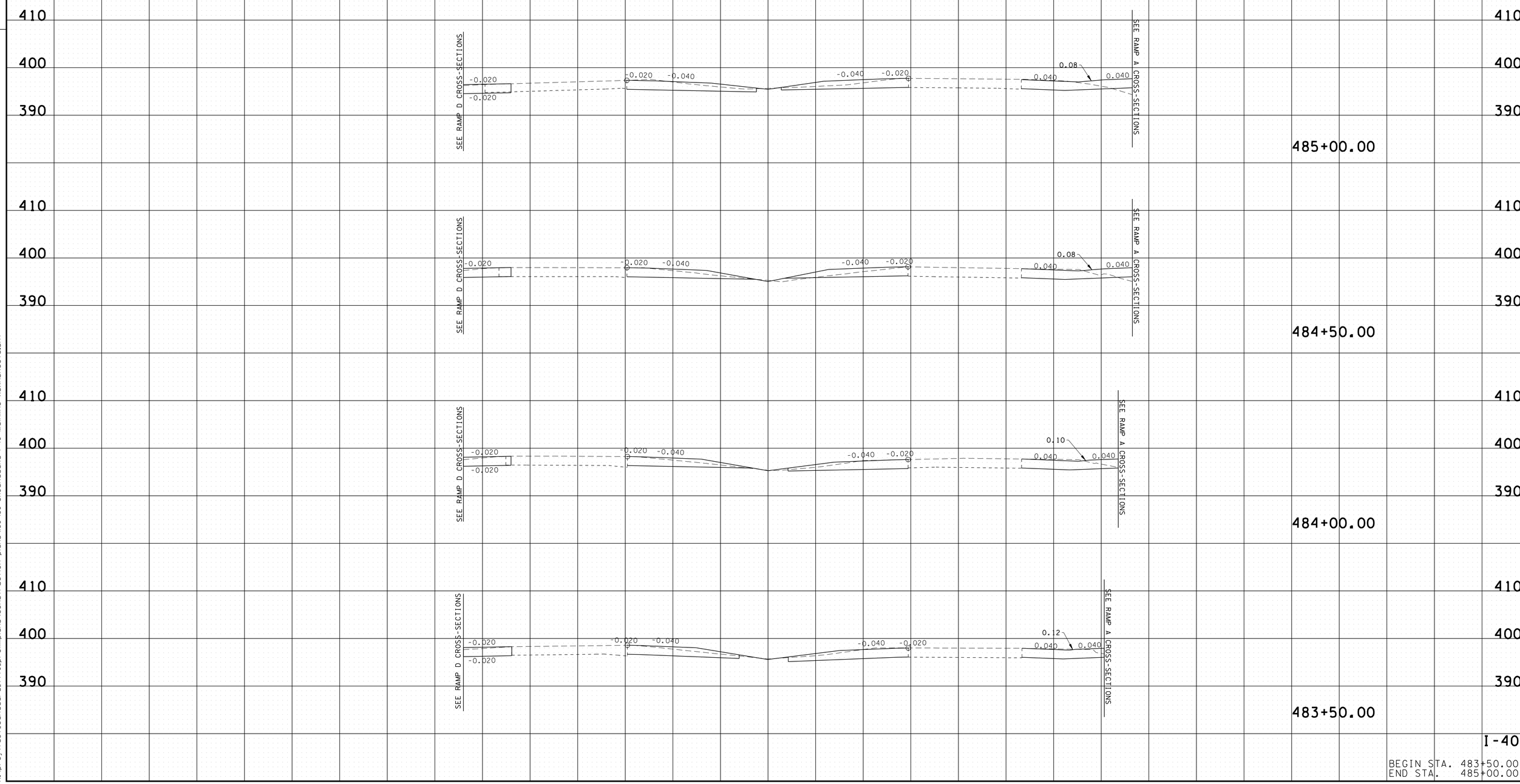
BEGIN STA. 482+00.00
END STA. 483+00.00

2/24/2014 3:03:30 PM
k:\proj\tdot_canadard_7779_prelimplans\construction plans\I69-I89 SHCanadaRd I-40 Mainline xsxnsheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	172

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

BEGIN STA. 483+50.00
END STA. 485+00.00

2/24/2014 3:03:34 PM
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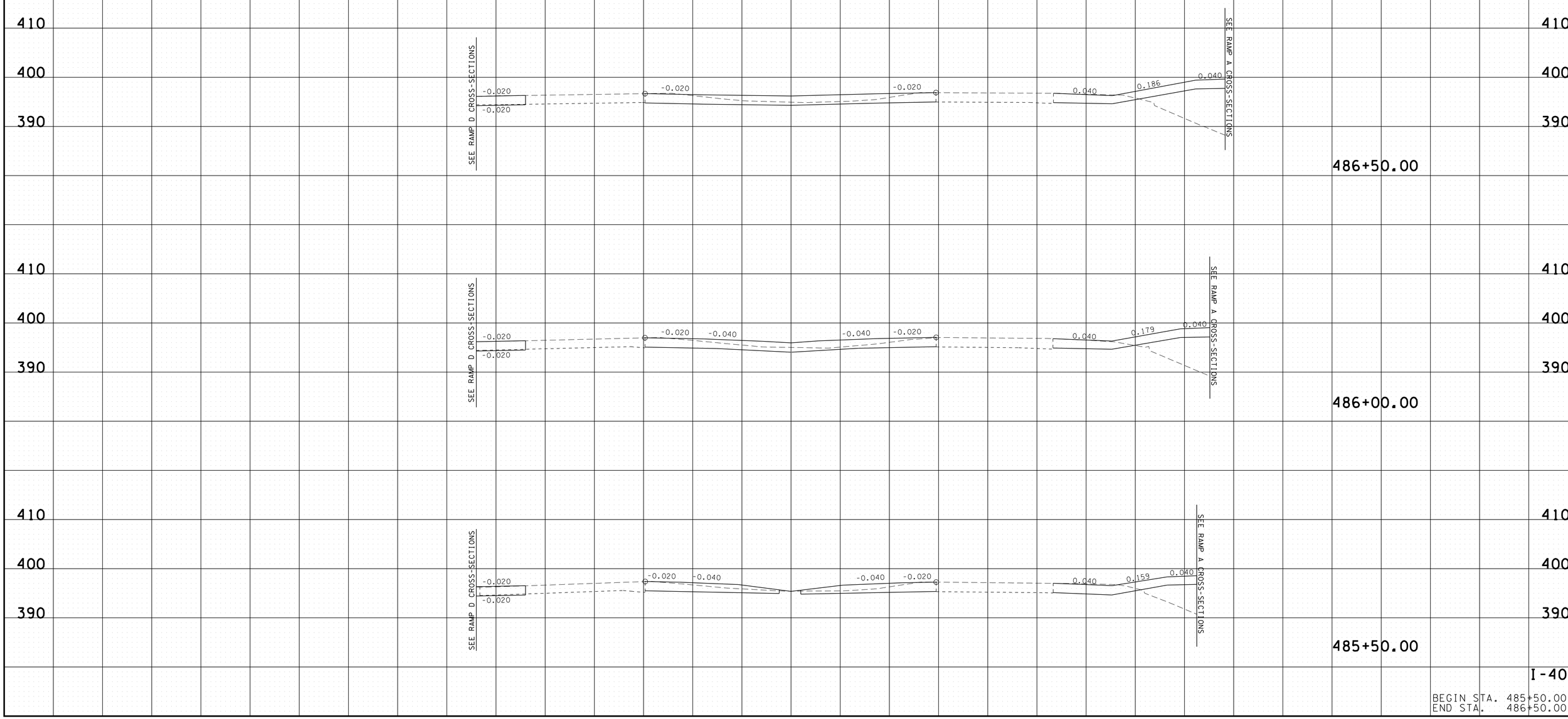
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	173

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

BEGIN STA. 485+50.00
END STA. 486+50.00

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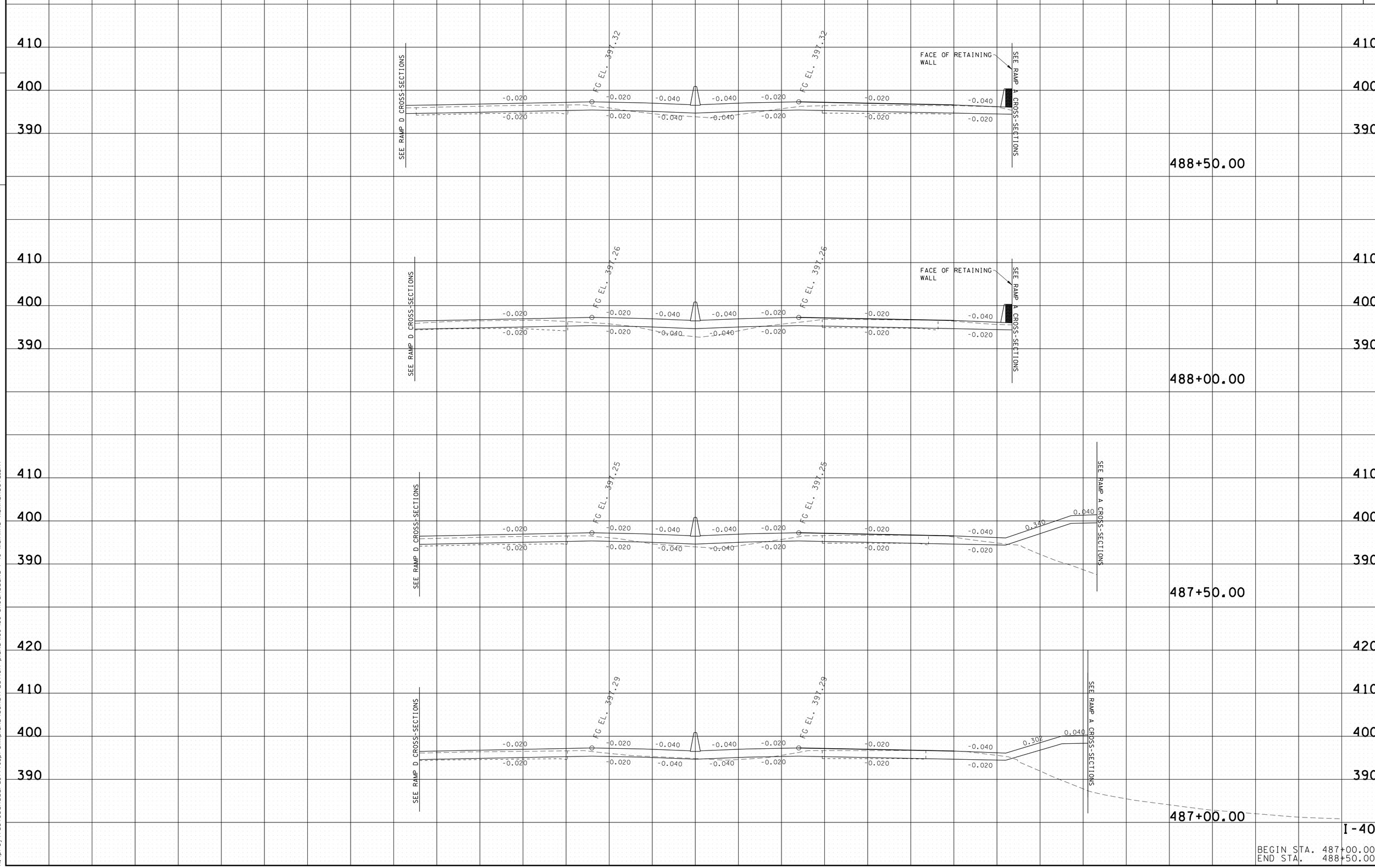
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	174

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



BEGIN STA. 487+00.00
END STA. 488+50.00

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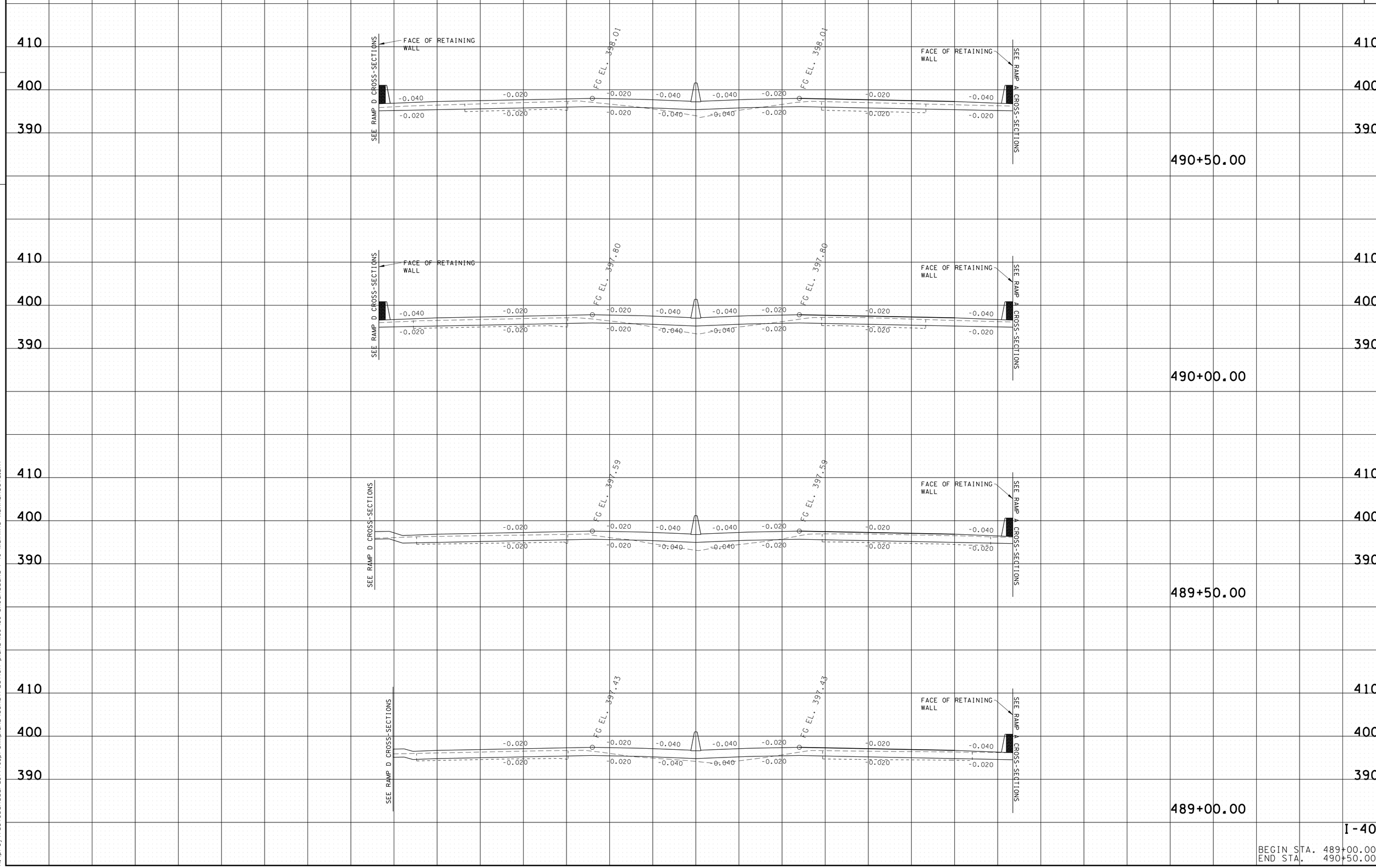
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	175

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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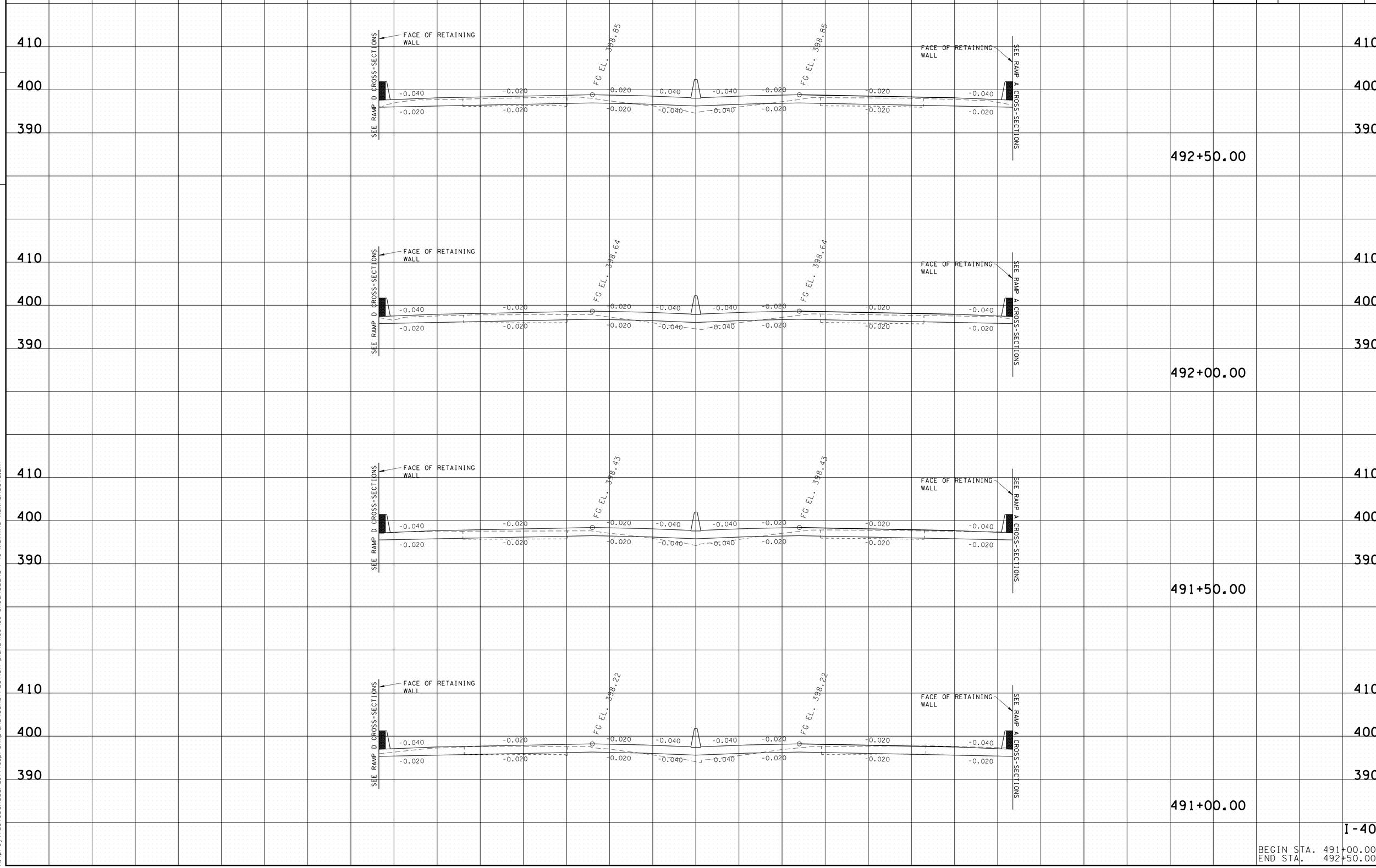
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	176

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



I-40

BEGIN STA. 491+00.00
END STA. 492+50.00

2/24/2014 3:03:53 PM
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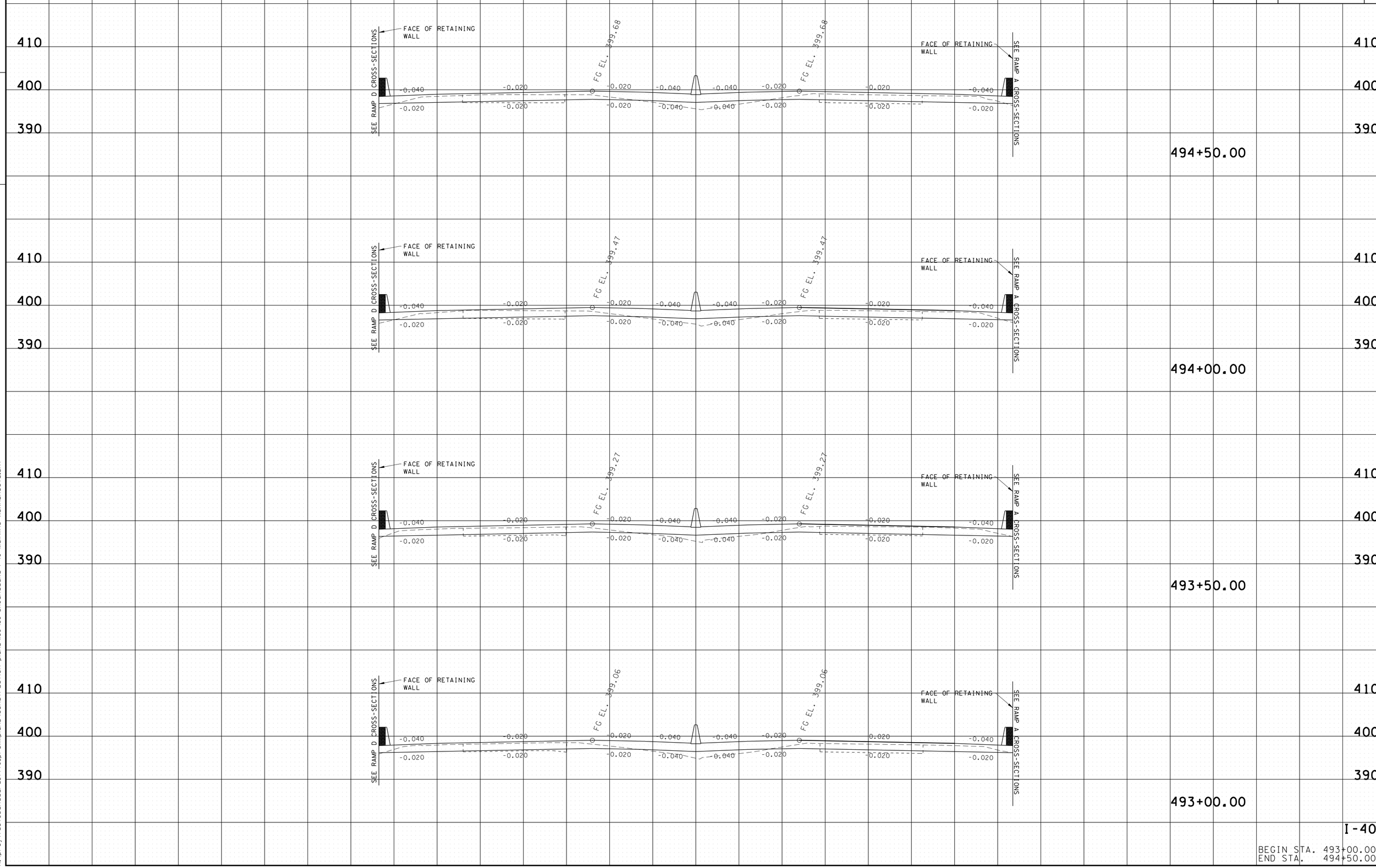
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	177

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



I-40

BEGIN STA. 493+00.00
END STA. 494+50.00

2/24/2014 3:03:58 PM
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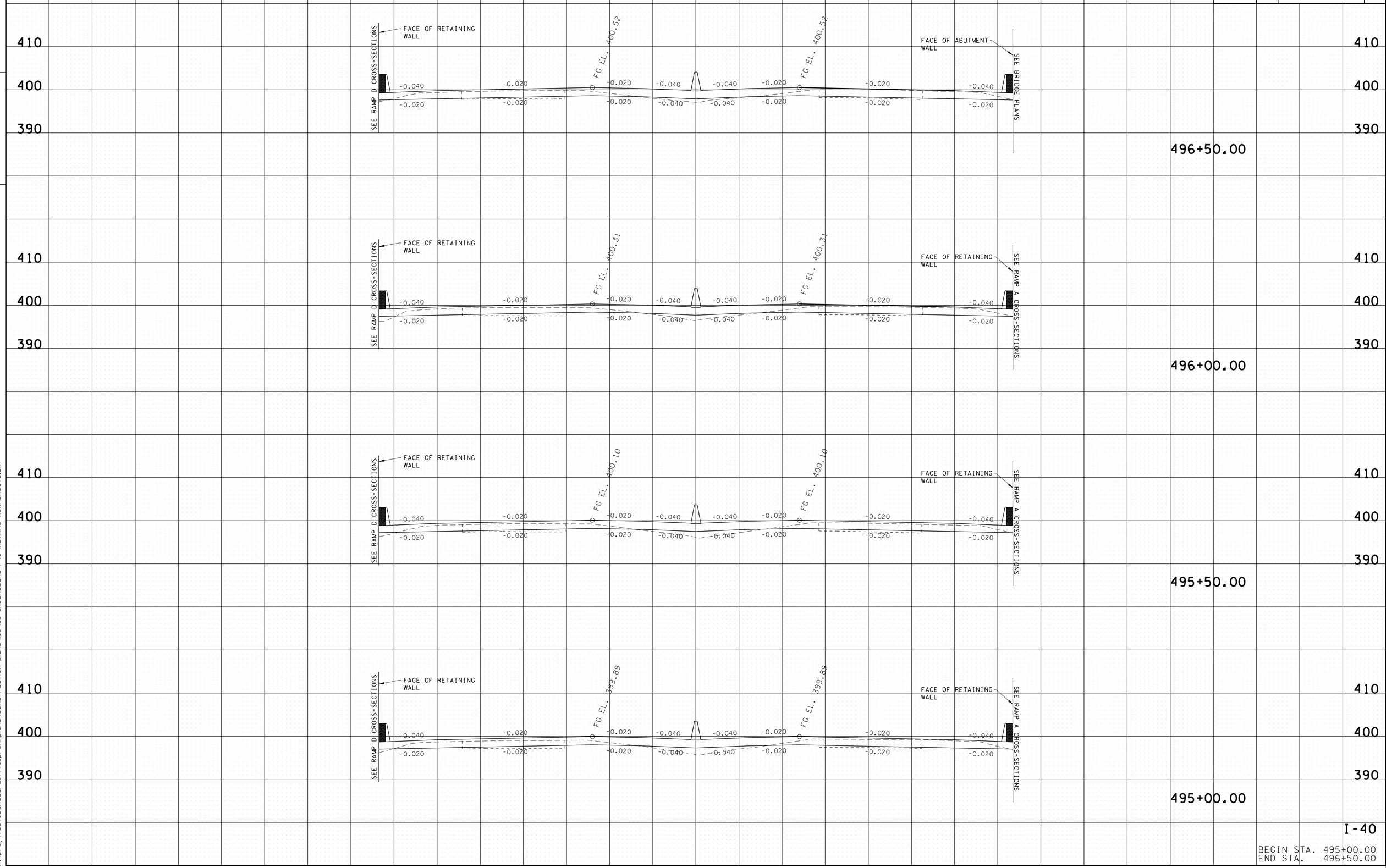
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	178

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

BEGIN STA. 495+00.00
END STA. 496+50.00

2/24/2014 3:04:03 PM
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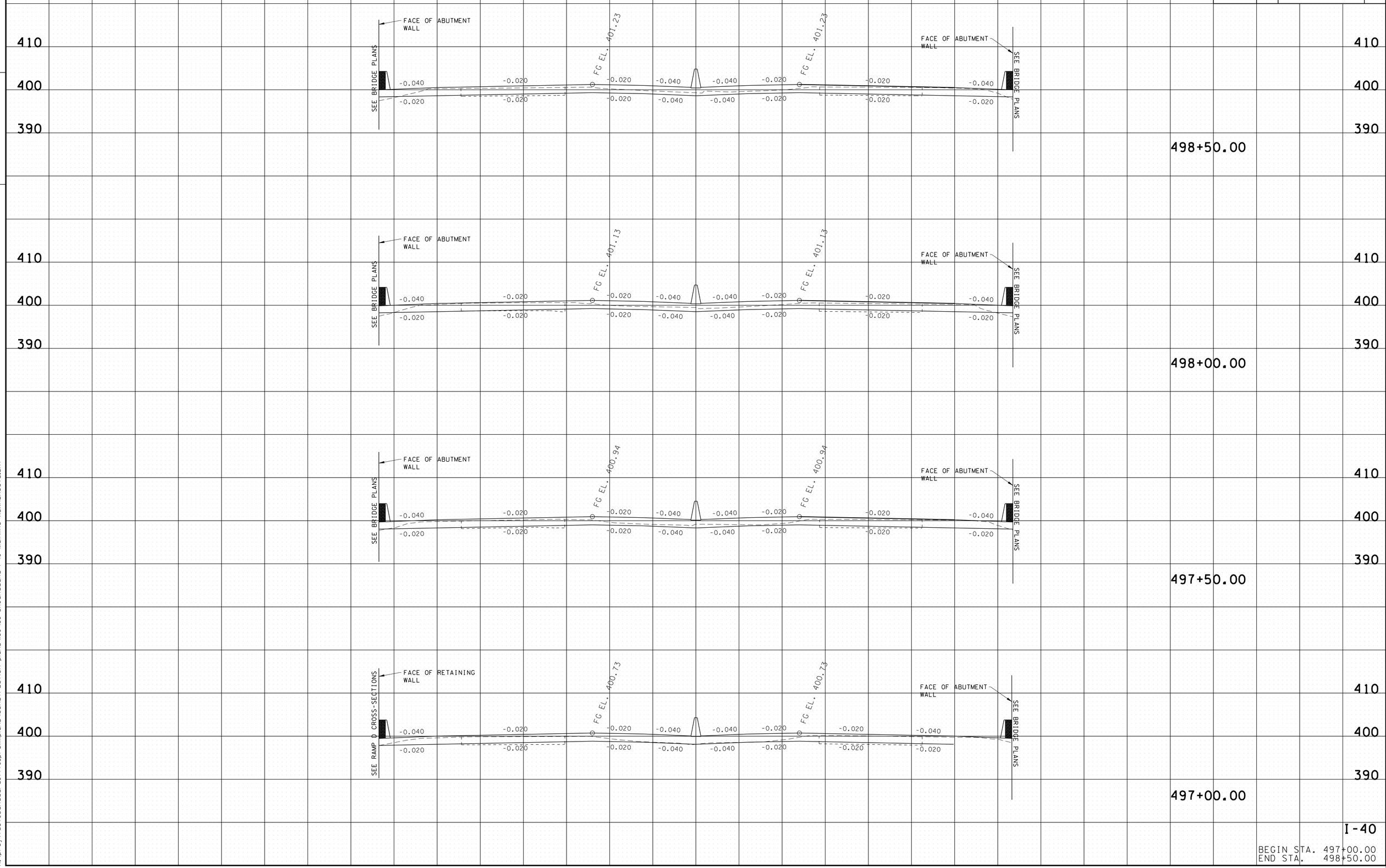
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	179

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

BEGIN STA. 497+00.00
END STA. 498+50.00

2/24/2014 3:04:09 PM
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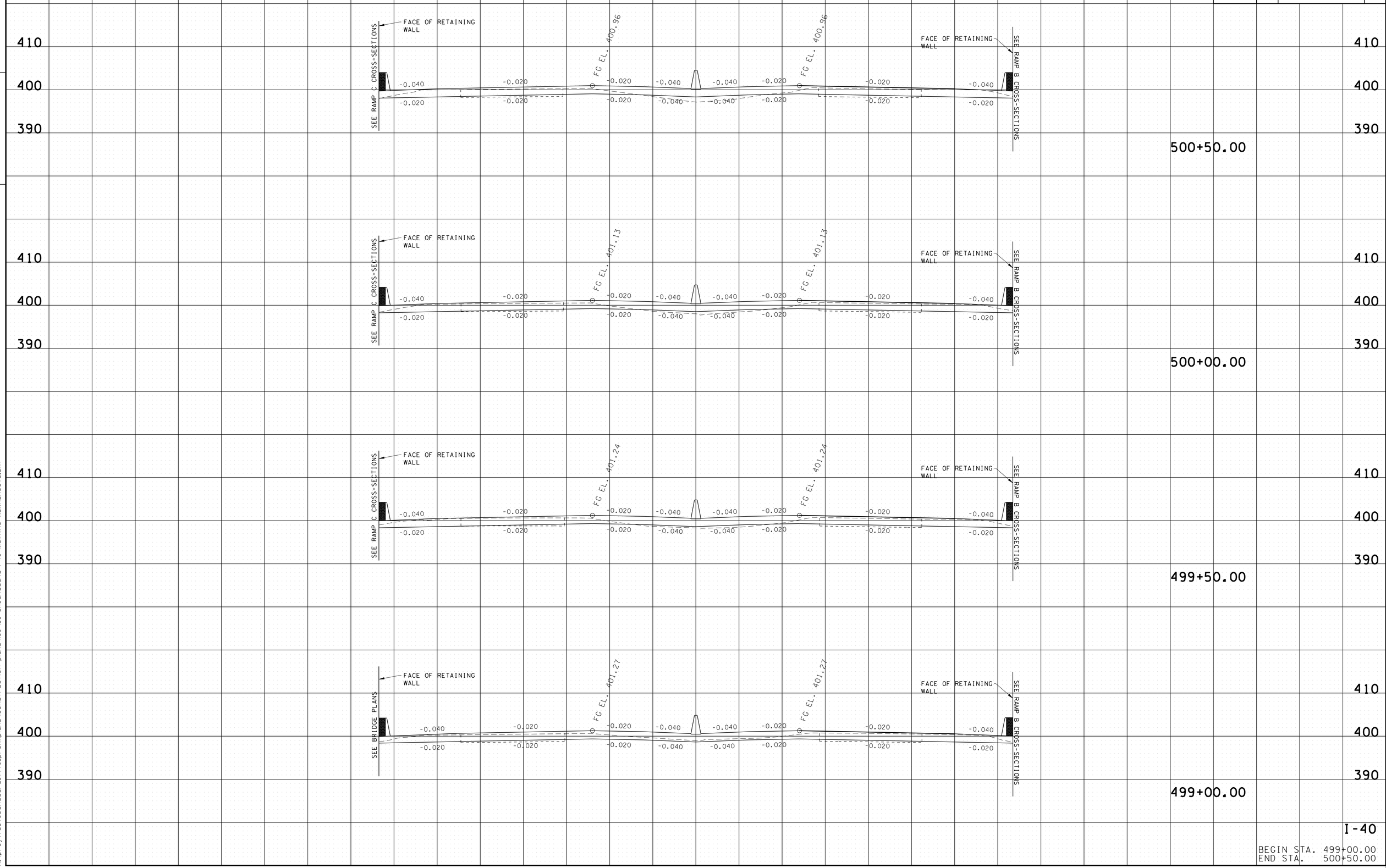
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	180

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

BEGIN STA. 499+00.00
END STA. 500+50.00

2/24/2014 3:04:14 PM
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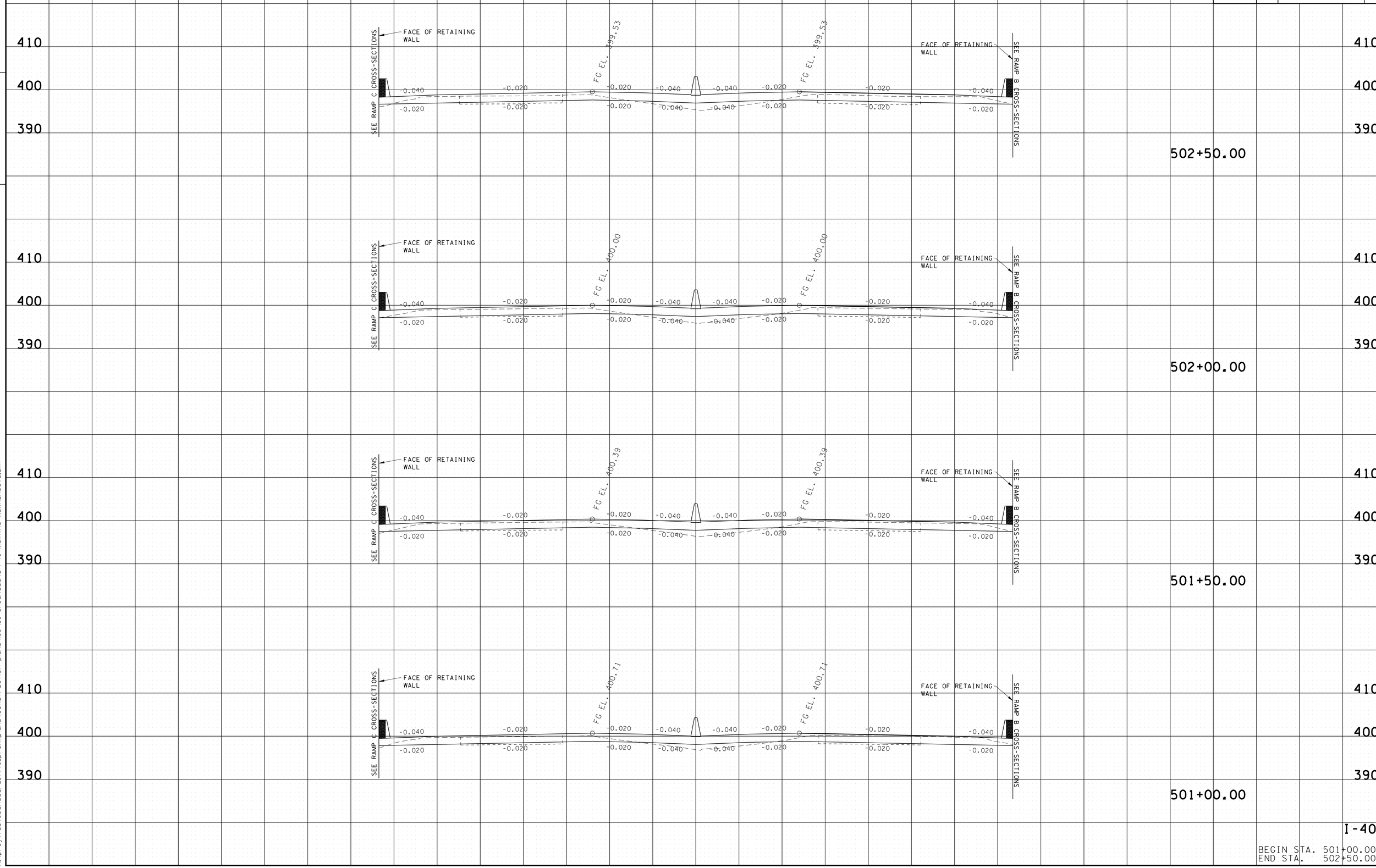
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	181

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



I-40

BEGIN STA. 501+00.00
END STA. 502+50.00

2/24/2014 3:04:20 PM
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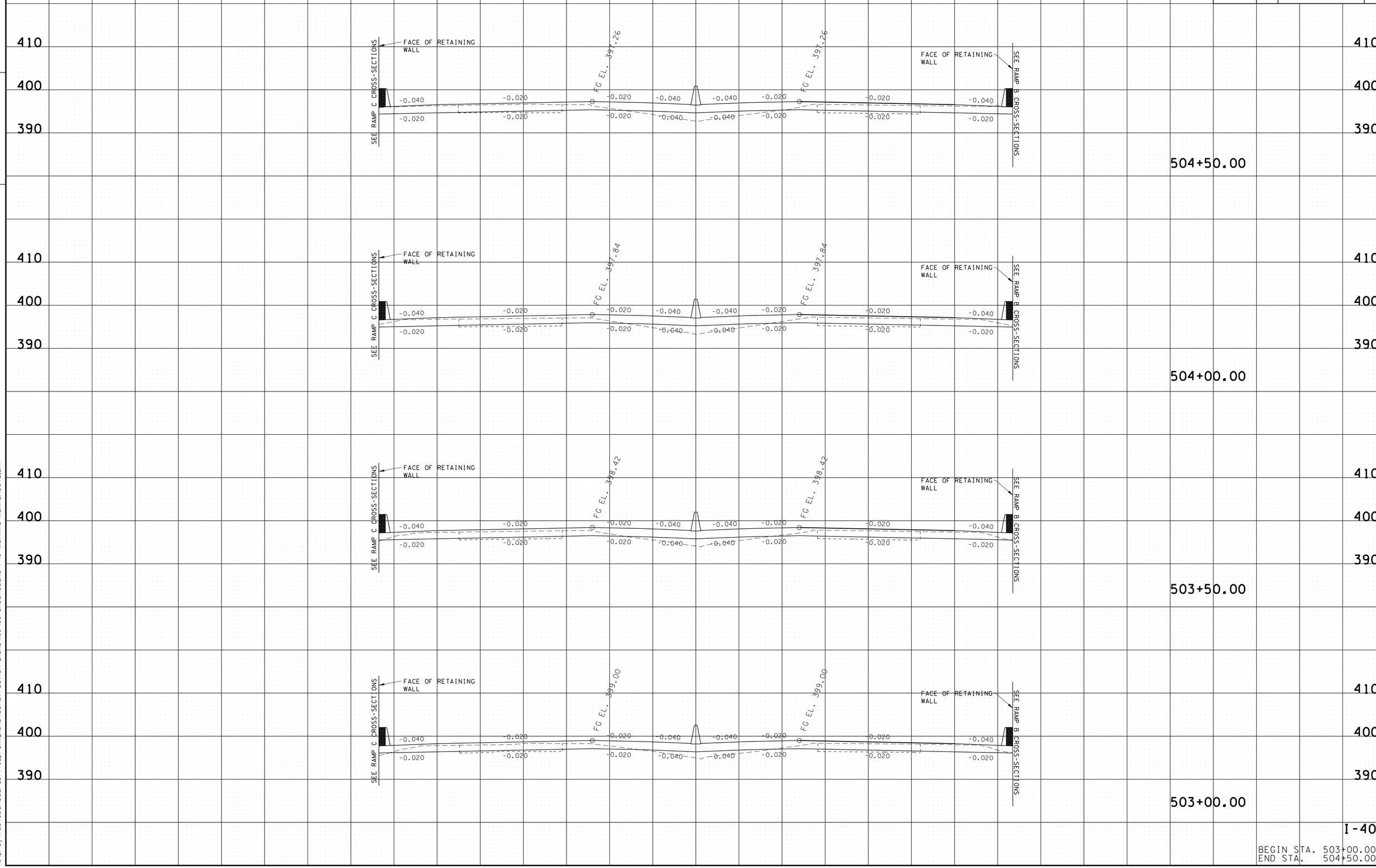
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	182

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



BEGIN STA. 503+00.00
END STA. 504+50.00

2/24/2014 3:04:25 PM
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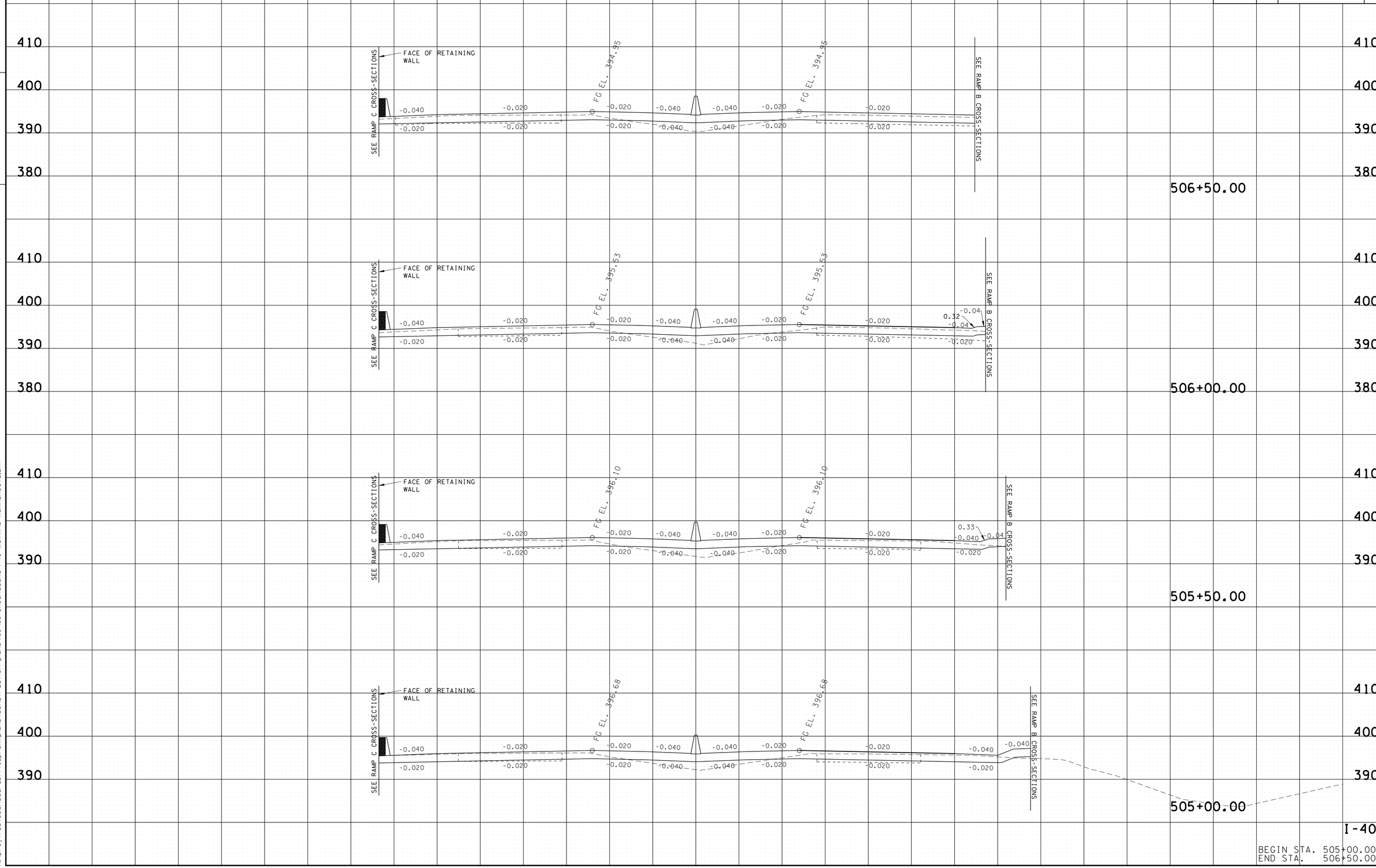
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	183

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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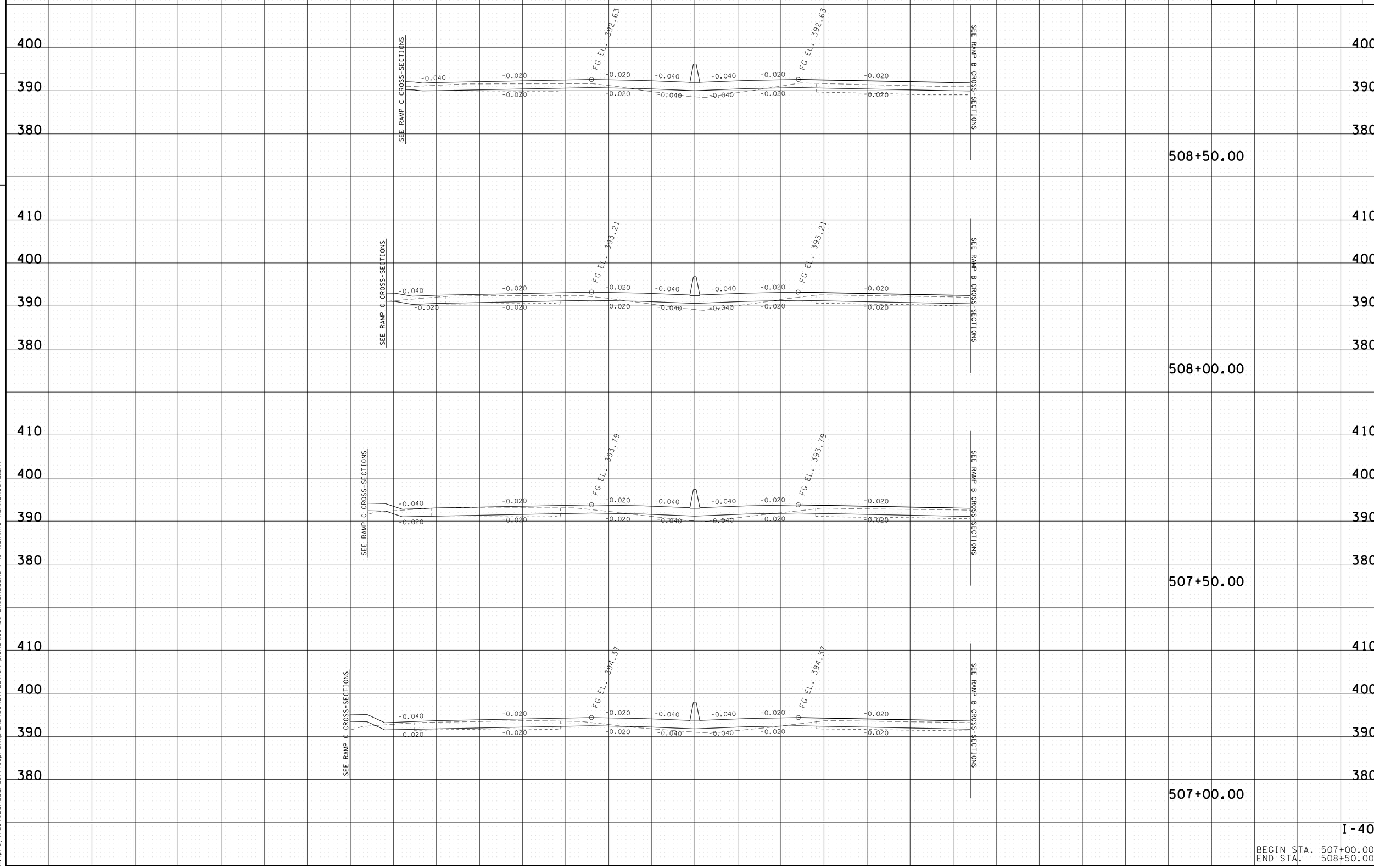
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	184

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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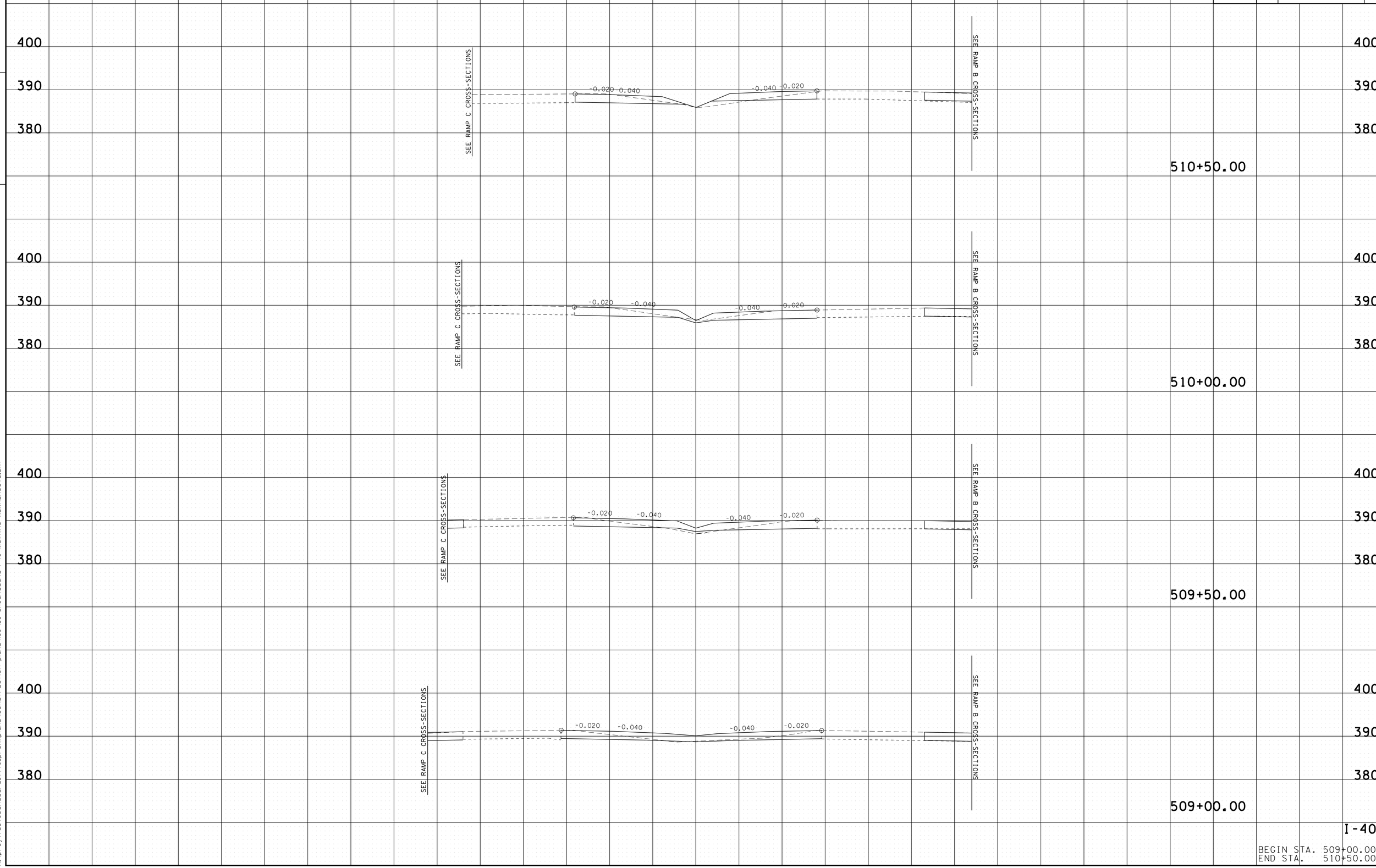
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	185

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



I-40

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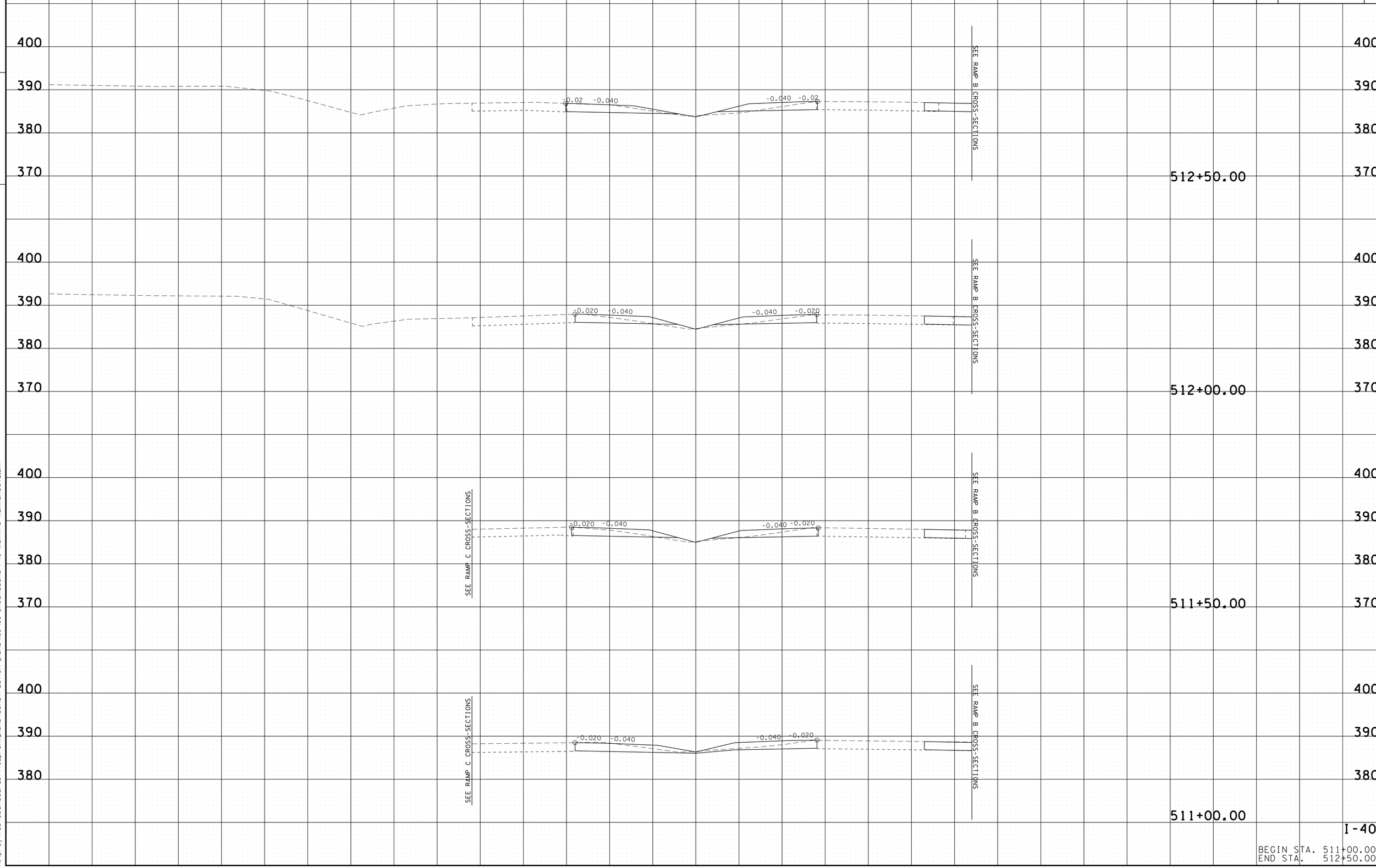
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	186

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



I-40

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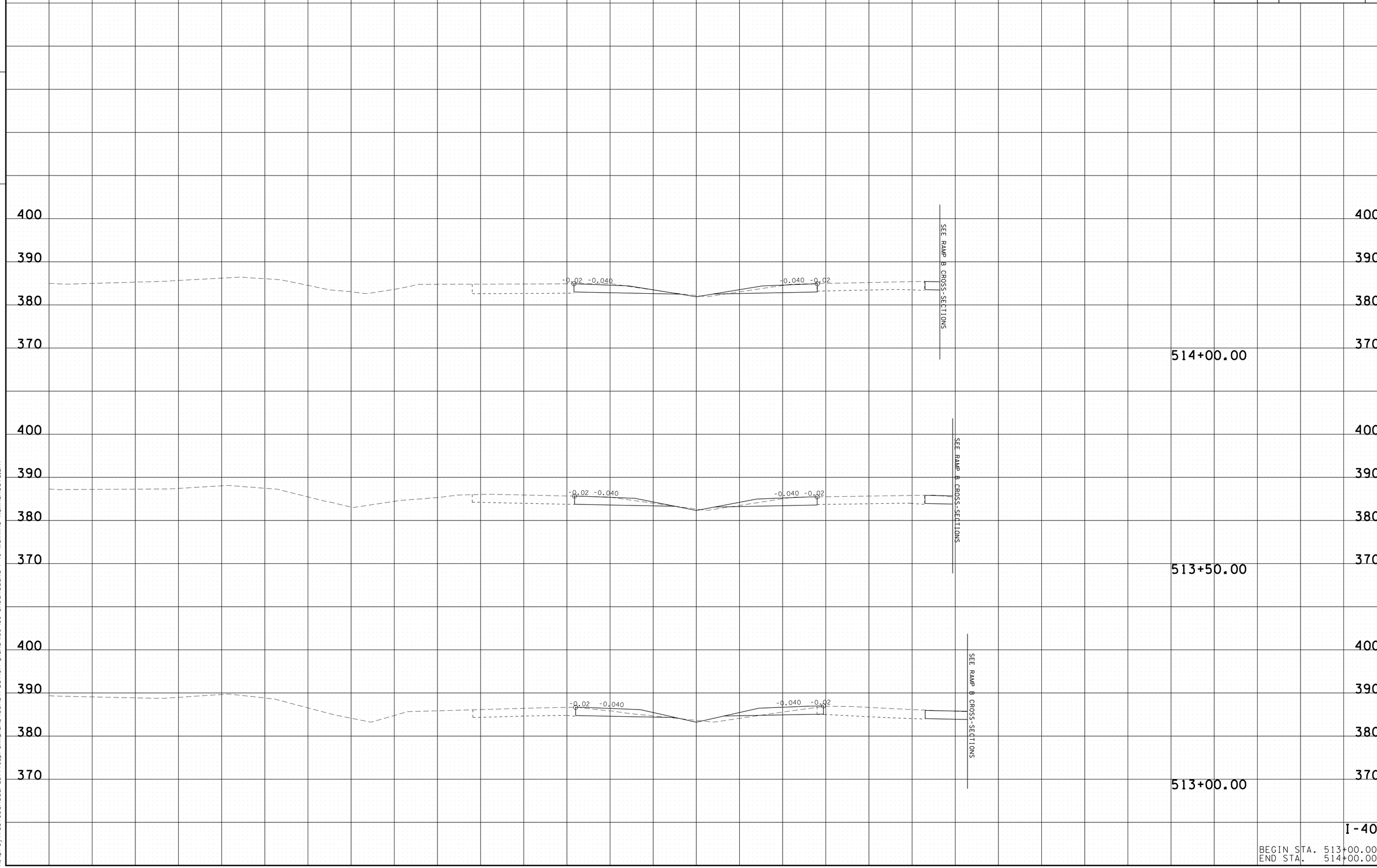
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	187

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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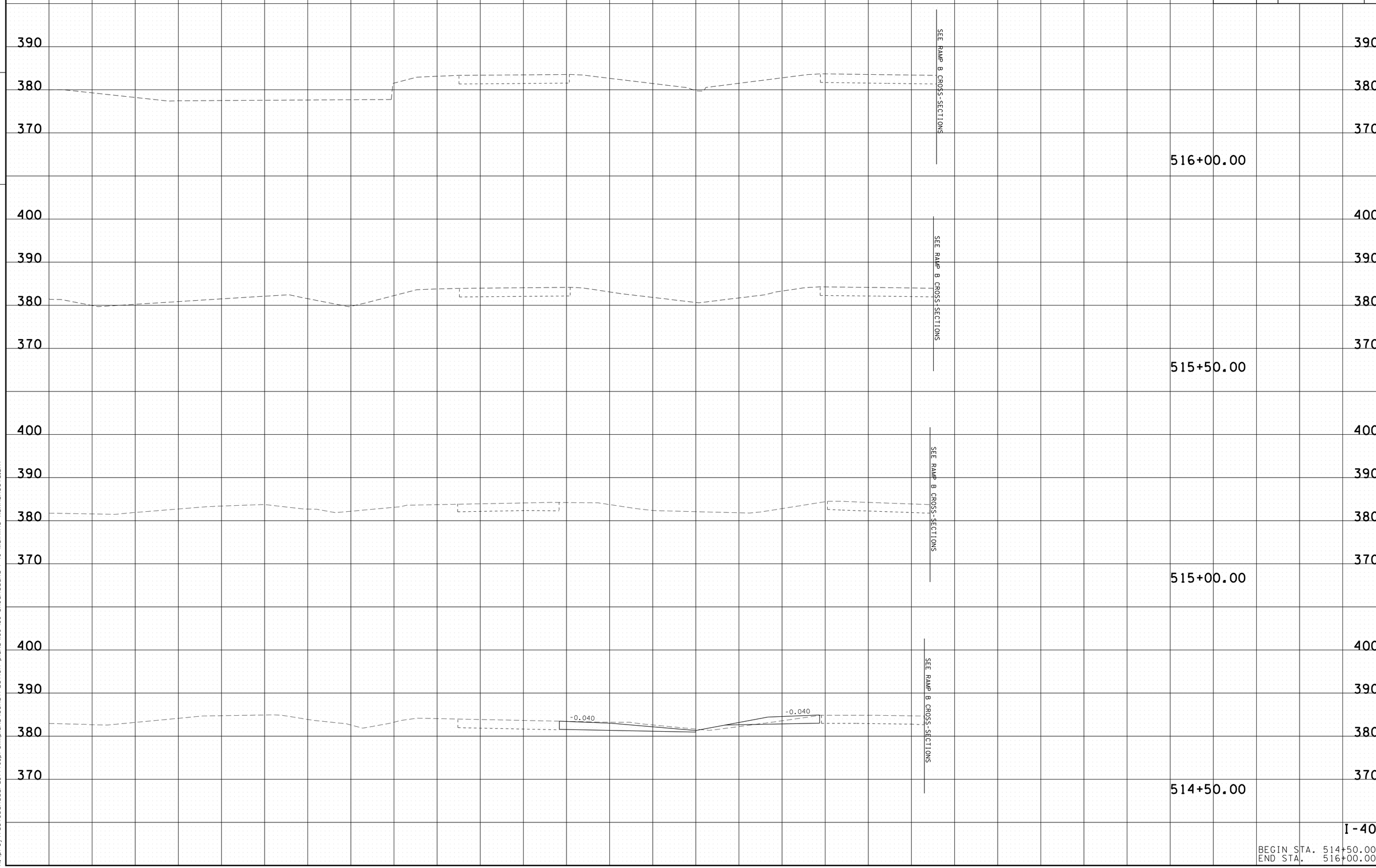
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	188

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



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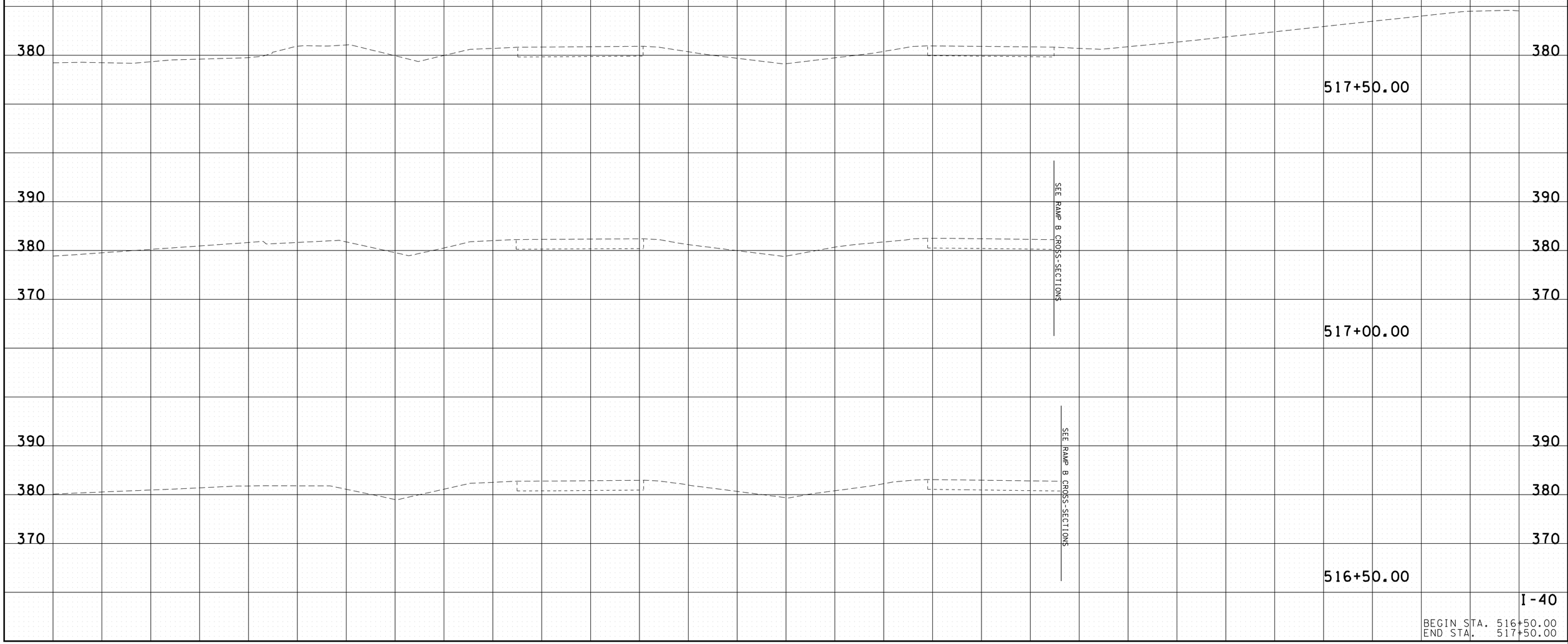
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NH-I-40-1(283)20	189

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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