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Digitally signed by Eric Kim
Date: 2025.03.17 17:58:13
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TENNESSEE DEPARTMENT OF TRANSPORTATION
7345 REGION LANE
KNOXVILLE, TENNESSEE 37914
ERIC KIM, P.E. NO. 127831

SIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOW

SHEET N

.....RC

.....1

STANDARD ROADWAY DRAWINGS 1A

QUANTITIES 2, 2-1

4B

.....7

.....8

IONS 16

IONS	28
.....	31

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

JEFFERSON COUNTY

S.R. 113: M17LTR1 C45SR SML STR ENG SR113, L.M. 3.68
CULVERT REPLACEMENT

PS&E

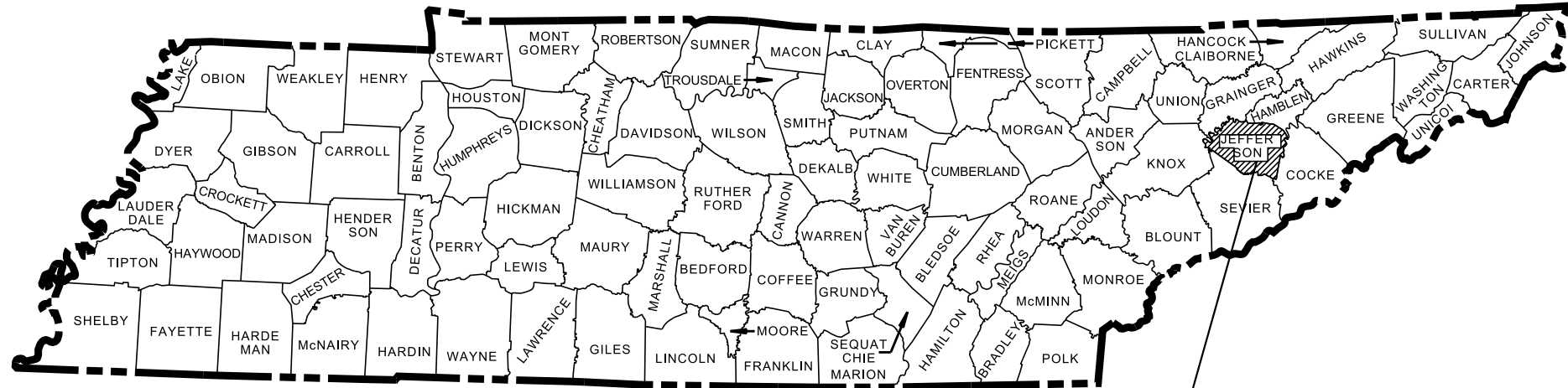
GRADE, DRAIN, PAVE, GUARDRAIL, SLAB CULVERT

STATE HIGHWAY NO. 113 F.A.H.S. NO. N/A

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.	N/A	
STATE PROJ. NO.	45010-4215-04	

REV. 03/14/25: REVISED CHIEF ENGINEER'S & COMMISSIONER'S TITLE.

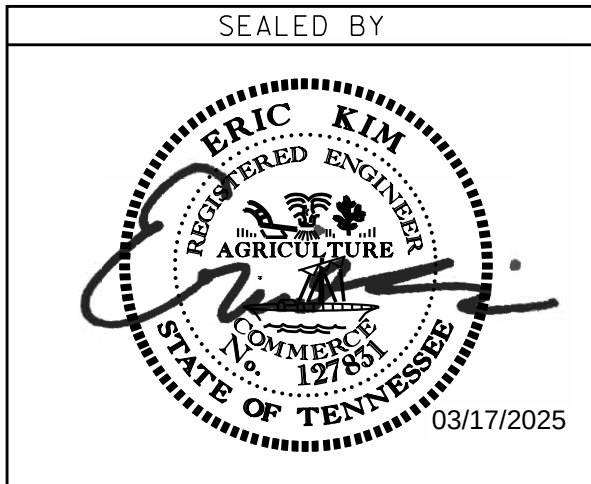


S.R. 113
JEFFERSON CO.

NO EXCLUSIONS



PROJECT OF LIMITED SCOPE



APPROVED:
WILL REID, DEPUTY COMMISSIONER / CHIEF ENGINEER

DATE:

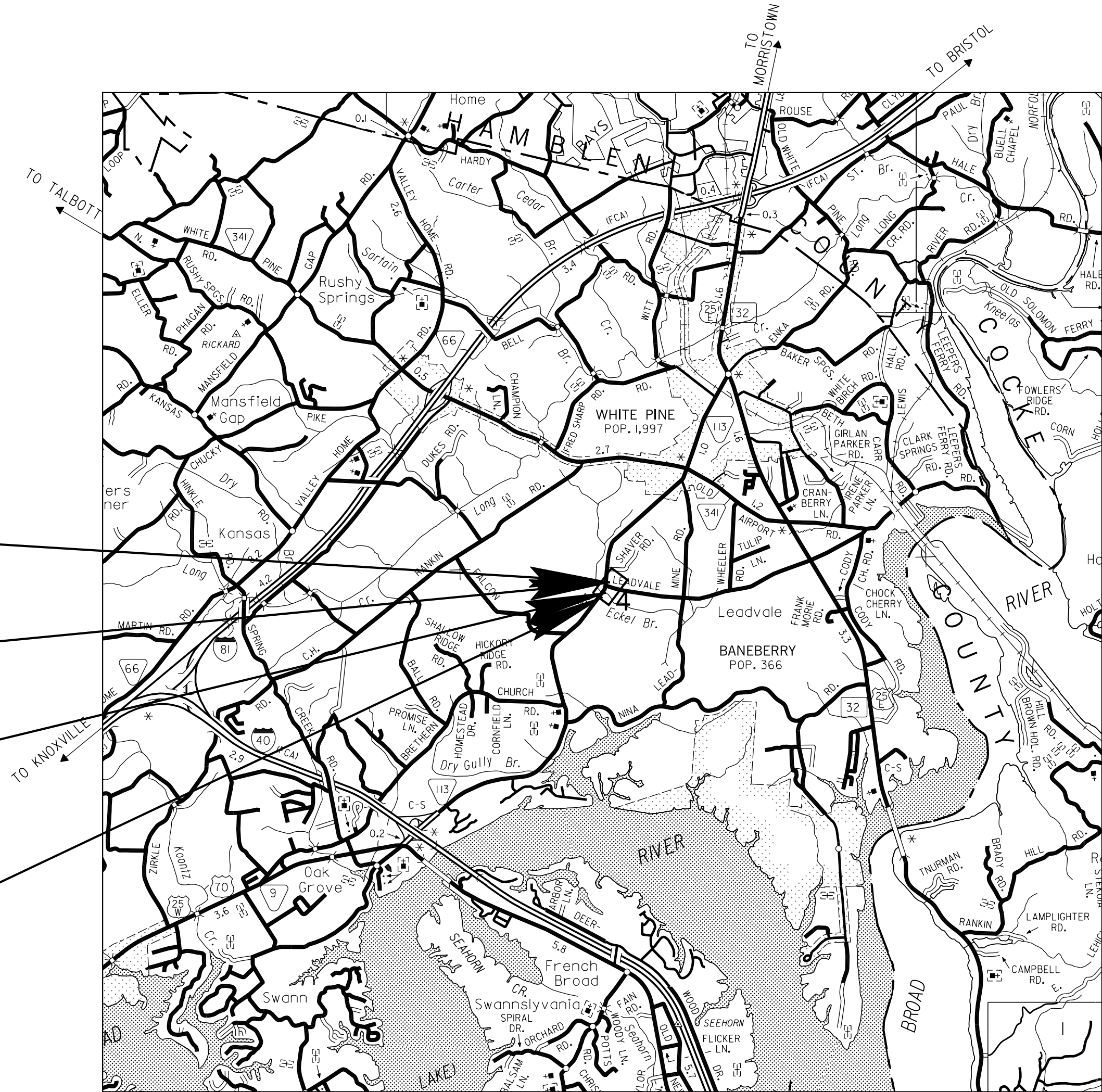
APPROVED:
HOWARD H. ELEY, DEPUTY GOVERNOR & COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE



SCALE: 1"= 5280'



R.O.W. LENGTH	0.115 MILES
ROADWAY LENGTH	0.169 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.002 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.171 MILES

▲ Not included in the project length (Non Riding Surface).

TRAFFIC UPDATE 10-14-24

SURVEY 07-24-19	TRAFFIC DATA	
UPDATE 06-18-21	ADT (2025)	2600
	ADT (2025)	3490
	DHV (2025)	419
	D	65 - 35
	T (ADT)	3 %
	T (DHV)	2 %
	POSTED	55 MPH

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000090 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

END PROJECT NO. 45010-4215-04 CONSTRUCTION

STA. 115+45.00

N 647114.2973 E 2764321.8045

END PROJECT NO. 45010-4214-04 R.O.W.

STA. 115+38.00

N 647107.3255 E 2764321.1763

BEGIN PROJECT NO. 45010-4214-04 R.O.W.

STA. 109+30.00

N 646557.5623 E 2764102.2139

BEGIN PROJECT NO. 45010-4215-04 CONSTRUCTION

STA. 106+40.00

N 646325.2288 E 2763928.6594

SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT ROADWAY DESIGN MANAGER : MR. STACY WEAVER, P.E.

DESIGNER : JOHN CLEGHORN CHECKED BY : ERIC KIM, P.E.

P.E. NO. 45010-4211-04 (DESIGN)

PIN NO. 118948.00

PS&E INDEX OF SHEETS

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
SIGNATURE SHEET	ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD STRUCTURE AND TRAFFIC OPERATIONS DRAWINGS	1A3
ESTIMATED ROADWAY QUANTITIES	2, 2-1
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
TYPICAL SECTIONS	2B1
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E
TABULATED QUANTITIES	2F, 2F1
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS	3
RIGHT-OF-WAY ACQUISITION TABLE	3A
PROPERTY MAP	3B
PRESENT LAYOUT	4
RIGHT-OF-WAY DETAILS	4A
PROPOSED LAYOUT	4B
PROPOSED PROFILE	4C
SIDE ROAD PROFILE	5
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILES	6
DRAINAGE MAP	7
CULVERT SECTION	8
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	9 – 15
ROADWAY CROSS SECTIONS	16 – 27
SIDE ROAD CROSS SECTIONS	28
TRAFFIC CONTROL PLANS	T1 – T7
GEOTECHNICAL PLANS	G-1
UTILITY PLANS	U1-1
NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS	
NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN NUMBERING OF SHEETS.	

DWG.	REV.	DESCRIPTION
STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
STANDARD ROADWAY DRAWINGS		
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
PIPE CULVERTS AND ENDWALLS		
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18” TO 30”
CATCH BASINS AND MANHOLES		
D-CB-42S	02-20-20	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-99	02-20-20	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CBB-42	10-29-21	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
S-RP-2	06-28-19	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
SAFETY DESIGN AND GUARDRAILS		
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-CC-1	01-09-24	CRASH CUSHION

STANDARD ROADWAY DRAWINGS

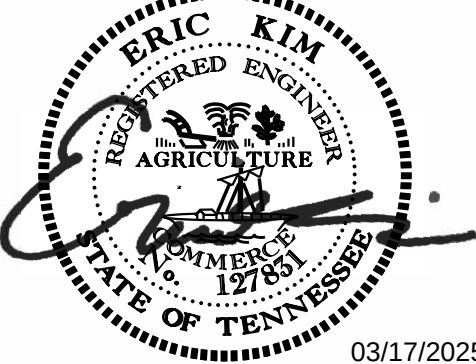
DWG.	REV.	DESCRIPTION
S-GR31-1	06-15-21	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GRS-2	01-28-22	SPECIAL CASE GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL
S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRA-4	03-01-23	IN-LINE GUARDRAIL ANCHOR TO PRIVATE DRIVE
DESIGN - TRAFFIC CONTROL		
T-M-1	06-28-19	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-4	07-17-20	STANDARD INTERSECTION PAVEMENT MARKINGS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-32	11-30-20	TRAFFIC CONTROL PLAN SIGNAL FOR 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-PCB1	12-09-22	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	12-09-22	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2A	12-09-22	20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE
T-WZ-PCB3	01-28-22	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	12-09-22	PORTABLE CONCRETE BARRIER RAIL ANCHOUR PIN DETAILS
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
NATURAL STREAM DESIGN		
D-NSD-30	05-01-20	SUBSTRATE RESTORATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	1A

REV. 02/07/25: ADDED ROADWAY-SIGN1 AND ROADWAY-SIGN2 TO INDEX.

REV. 03/14/25: ADDED ROADWAY-SIGN1 AND ROADWAY-SIGN2 TO INDEX. REVISED ROADWAY CROSS SECTIONS & SIDE ROAD CROSS SECTIONS SHEET NOS.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

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ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 45010-4215-04
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
(1)(2) 202-02.01	REMOVAL OF PIPE (4 - 36" PLASTIC, STA. 110+68)	L.F.	160
(2)(3) 202-04.01	REMOVAL OF STRUCTURES (CATCH BASIN & 15" PLASTIC PIPE, STA. 108+54)	LS	1
(2)(4) 202-04.02	REMOVAL OF STRUCTURES (FENCING AND POSTS, 587 LF, STA. 110+68)	LS	1
(2)(5) 202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 5, SHOP / SHED, 1860 LF)	LS	1
(2)(6)(7) 203-30.01	ROADWAY APPROACHES	LS	1
208-01.05	BROOMING & DEGRASSING SHOULDERS	L.M.	0.4
(6) 209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	530
(6) 209-05	SEDIMENT REMOVAL	C.Y.	52
(6)(8) 209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	483
(9) 209-08.04	TEMPORARY ENHANCED SILT FENCE	L.F.	115
(6) 209-08.07	ROCK CHECK DAM	EACH	4
(6) 209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
(6) 209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	2
(6) 209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
(6) 209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	247
(2)(10) 303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	501
(2)(11) 303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	131
(6)(12) 303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	15
(2)(13) 307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	112
(2)(13) 307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	73
(2)(14) 402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	2
(2)(15) 402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	5
(2)(16) 403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	2
(2)(16) 411-01.10	ACS MIX(PG64-22) GRADING D	TON	351
(2)(16) 415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	181
(2)(17) 604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	48
(2)(18) 604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	10405
(2)(19) 607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	100
(2) 611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	1
(2) 611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	45
(2) 611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	1
(2) 705-01.04	METAL BEAM GUARD FENCE	L.F.	38
(2) 705-06.02	W BEAM GR (TYPE 2) MASH TL3 (LONG POST)	L.F.	917
(2) 705-06.11	GR TERMINAL (IN-INLINE) MASH TL3	EACH	5
(2) 705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	1
(2) 706-01	GUARDRAIL REMOVED	L.F.	272
(2) 706-06.03	RADIUS RAIL	L.F.	60
(2) 706-10.26	ROUNDED END ELEMENT	EACH	3
(2) 708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	15
(6)(20) 709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
(6)(21) 709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	248
(22) 709-05.08	MACHINED RIP-RAP (CLASS B)	TON	23
712-01	TRAFFIC CONTROL	LS	1
712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	280
(23) 712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	2
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	20
712-04.50	BARRIER RAIL DELINEATOR	EACH	11
712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
(24)(25) 712-06	SIGNS (CONSTRUCTION)	S.F.	1310
(26) 712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	52
(27) 713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
(28) 713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
(29) 713-16.20	SIGNS (W1-7)	EACH	1
716-01.21	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	12
(30) 716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	12
(31) 716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	30
(32) 716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	5280
(33) 716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	1
717-01	MOBILIZATION	LS	1

SEE SHEET 2-1 FOR FOOTNOTES (CONT.)

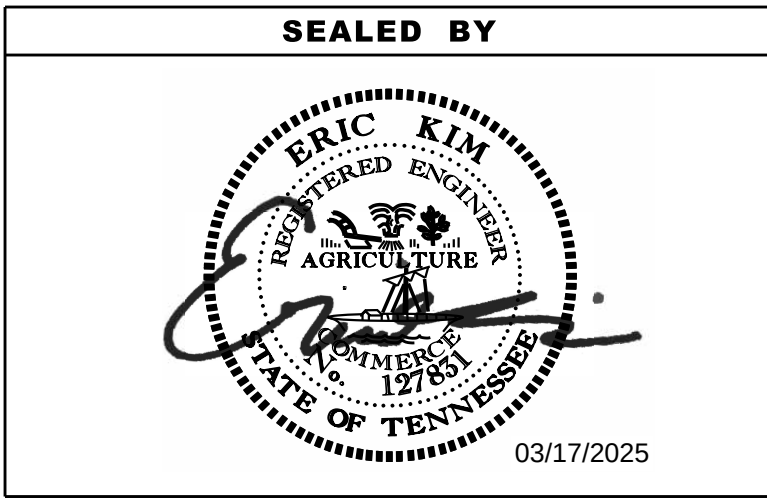
ESTIMATED ROADWAY QUANTITIES (CONT.)			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 45010-4215-04
730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	357
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	1108

(6)(34)
(6)

FOOTNOTES	
(1)	INCLUDES REMOVAL OF EXISTING PIPES, RIP-RAP, AND ANY OTHER MATERIAL ASSOCIATED WITH THE EXISTING PIPES.
(2)	SEE SHEETS 2F AND 2F1 FOR TABULATED QUANTITIES.
(3)	INCLUDES REMOVAL OF EXISTING CATCH BASIN, EXISTING PIPE, AND ANY OTHER MATERIAL ASSOCIATED WITH THE EXISTING CATCH BASIN AND EXISTING PIPE.
(4)	INCLUDES REMOVAL OF EXISTING THREE WIRE HIGH TENSILE ELECTRIC FENCING AND POSTS AND ANY OTHER MATERIAL ASSOCIATED WITH THE EXISTING FENCING AND POSTS.
(5)	INCLUDES REMOVAL OF EXISTING SHOP/SHED AND ANY OTHER MATERIAL ASSOCIATED WITH THE EXISTING SHOP/SHED.
(6)	SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.
(7)	INCLUDES 714 C.Y. FOR ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED), 561 C.Y. FOR TEMPORARY BERMS (0.36 C.Y./L.F.), 15 C.Y. FOR TEMPORARY CONSTRUCTION EXITS, 1 L.S. FOR CLEARING AND GRUBBING, 0.2 M.G. FOR WATER, 149 C.Y. FOR PLACING & SPREADING TOPSOIL, 9 C.Y. FOR CULVERT EXCAVATION, 10 UNITS FOR TEMPORARY SEEDING WITH MULCH, 20 UNITS FOR NATIVE SEED MIX FINAL STABILIZATION OF SLOPES, 20 UNITS FOR SEEDING (WITHOUT MULCH), 5 M.G. FOR WATER (SEEDING & SODDING), AND 43 C.Y. FOR CHANNEL SUBSTRATE RESTORATION. NO CHANGE IN COMPENSATION WILL BE MADE FOR NORMAL VARIATIONS IN ESTIMATED QUANTITIES. SEE SPECIAL NOTES ON SHEET 2D. 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. ANY REMOVAL OF A PREVIOUSLY ENCOUNTERED FOUNDATION WILL BE INCLUDED IN THE COST OF THIS ITEM. TEMPORARY BERMS, TEMPORARY CONSTRUCTION EXITS, TEMPORARY SEEDING W/ MULCH, NATIVE SEED MIX FINAL STABILIZATION OF SLOPES, SEEDING (WITHOUT MULCH), WATER (SEEDING & SODDING) TO BE USED FOR EROSION PREVENTION AND SEDIMENT CONTROL. THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60-FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE SELECTED FROM TABLE 7.9-1 (PREFERRED SEED MIXES USING NATIVE OR NATURALIZED PLANTS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK, 4TH EDITION. IF SHORING IS REQUIRED, ITS COST SHALL BE INCLUDED IN THE COST OF OTHER ITEMS AND WILL NOT BE PAID FOR SEPARATELY. SHORING SHOWN IS CONCEPTUAL AND DOES NOT RELIEVE THE CONTRACTOR OF DETERMINING ITS MEANS AND METHODS OF CONSTRUCTION.
(8)	INCLUDES 193 L.F. FOR SEDIMENT FILTER BAG (15' X 15').
(9)	TO BE USED TO ENCAPSULATE STORED NATIVE BED MATERIAL OF NEW CULVERT DURING CONSTRUCTION.
(10)	INCLUDES 451 TONS FOR ROADWAY PAVEMENT, 50 TONS FOR MAINTENANCE OF TRAFFIC AT TEMPORARY SIGNALS DETECTION LOOPS, AND 36 TONS FOR PRIVATE DRIVEWAYS.
(11)	TO BE USED FOR SLAB CULVERT BACKFILL.
(12)	TO BE USED FOR SEDIMENT FILTER BAG (15' X 15').
(13)	NOT USED
(14)	TO BE INCREASED OR DECREASED AS DIRECTED BY THE TDOT OPERATIONS SPECIALIST OR TEAM LEAD.
(15)	ITEM TO BE USED AS DIRECTED BY THE TDOT OPERATIONS SPECIALIST OR TEAM LEAD.
(16)	TO BE USED FOR MILLING & RESURFACING TO EXTENT OF TEMPORARY TRAFFIC SYSTEM DETECTION LOOPS. INCLUDES 100 ADDITIONAL TONS FOR MAINTENANCE OF TRAFFIC AT TEMPORARY SIGNAL DETECTION LOOPS.
(17)	BRIDGE DECK FINISH TO BE BURLAP DRAG IN ACCORDANCE WITH METHOD "A" AS SPECIFIED IN SUBSECTION 604.23 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
(18)	INCLUDES ANY ADDITIONAL COST FOR EPOXY-COATED STEEL TO BE USED IN THE TOP MAT OF THE TOP SLAB, INCLUDING TIE BARES FOR CORNER BARS OF THE EXTERIOR WALLS.
(19)	THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT.
(20)	TO BE USED FOR TEMPORARY CONSTRUCTION EXITS.
(21)	INCLUDES 236 TONS FOR SPECIAL DITCH LINING AND 12 TONS FOR TEMPORARY SLOPE DRAIN.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	2A
PS&E	2025	45010-4215-04	2

REV. 03/14/25: REVISED FOOTNOTE NO. 7. MOVED FOOTNOTE NOS. 22 & 23 FROM SHEET 2 TO SHEET 2-1. REMOVED FOOTNOTE NO. 13. REVISED ITEM NO. 716-05.01. ADDED ITEM NO. 716-08.01.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

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FOOTNOTES (CONT.)

- (22)

TO BE USED AROUND WINGWALLS AT INLET AND OUTLET OF CULVERT.
- (23)

THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
- (24)

SEE SHEET T2 FOR TABULATED QUANTITIES.
- (25)

SEE SHEETS T3 THRU T4 FOR CONSTRUCTION SIGN LOCATIONS.
- (26)

INCLUDES ALL COSTS OF REMOVING CONFLICTING MARKINGS.
- (27)

TO BE USED ON APPROXIMATELY 2 SIGNS WITHIN THE GRADING LIMITS OR AS DIRECTED BY THE TDOT OPERATIONS SPECIALIST OR TEAM LEAD.
- (28)

TO BE USED FOR WIDE LOAD DETOUR AND/OR TEMPORARY TRAFFIC CONTROL.
- (29)

LOCATED AT INTERSECTION OF S.R. 113 AND LEADVALE RD.
- (30)

ANY DAMAGE OCCURRED DURING REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE TDOT OPERATIONS SPECIALIST OR TEAM LEAD.
- (31)

CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- (32)

TO BE USED FOR TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS.
- (33)

CONTRACTOR SHALL USE EXTRUDED OR RIBBON METHOD FOR APPLICATION.
- (34)

INCLUDES 186 S.Y. FOR SEDIMENT FILTER BAG (15' X 15'), AND 172 S.Y. FOR TEMPORARY CONSTRUCTION EXITS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	2-1

REV. 03/14/25: MOVED FOOTNOTE NOS. 22 & 23 FROM SHEET 2 TO SHEET 2-1.

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03/17/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

ESTIMATED GRADING QUANTITIES									
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY					
	EXC.	EMB.	EXC.	SHRINK = 5 % SWELL = 5 %					
MAINLINE	494	155	470	EXC.	EMB.				
SIDE ROADS	0	0							
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	1	4	1						
INDEPENDENT DITCHES	0	0							
TEMPORARY CONSTRUCTION EXITS	0	0							
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0							
TOPSOIL (EMB.)	75								
TOPSOIL (EXC.)	144								
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	328			
ROCK (C.Y.)		TOTALS (C.Y.)							
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)				EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	714	159				714	495	471
THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF			328	C.Y. OF EXCESS MATERIAL					

TOPSOIL							
IF EXISTING TOPSOIL IS SUITABLE FOR REUSE							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL C.Y.	FURNISHED TOPSOIL C.Y.	EXCESS TOPSOIL C.Y.
8067	144	75	219	149	149	0	70

TO BE INCLUDED IN ROADWAY APPROACHES ITEM NO. 203-30.01

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	2F
PS&E	2025	45010-4215-04	2F

REV. 03/14/25: REVISED ESTIMATED GRADING QUANTITIES TABULATION, TOPSOIL TABULATION, & ROADWAY APPROACH TABULATION.

ALL COSTS OF THESE ESTIMATED QUANTITIES TO BE INCLUDED IN PRICE BID FOR ROADWAY APPROACHES ITEM NO. 203-30.01									
ROAD & DRAIN. EXCAVATION (UNCL.) C.Y. (1)	CLEARING & GRUBBING L.S.	WATER M.G.	PLACING & SPREADING TOPSOIL C.Y.	CULVERT EXCAVATION C.Y.	TEMPORARY SEEDING W/ MULCH UNIT	NATIVE SEED MX FINAL STAB. OF SLOPES UNIT	SEEDING W/O MULCH UNIT	WATER SEEDING & SODDING M.G.	CHANNEL SUBSTRATE C.Y.
1290	1	0.2	149	9	10	20	20	5	43

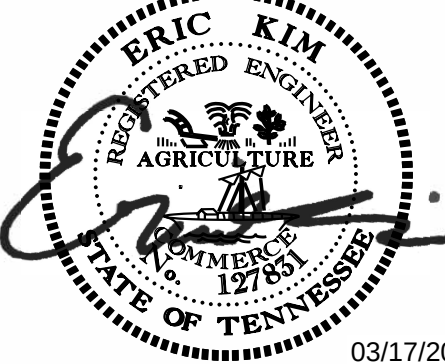
(1) INCLUDES 714 C.Y. FOR ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED), 561 C.Y. FOR TEMPORARY BERMS (0.36 C.Y./L.F.), AND 15 C.Y. FOR TEMPORARY CONSTRUCTION EXITS.

NO CHANGE IN COMPENSATION WILL BE MADE FOR NORMAL VARIATIONS IN ESTIMATED QUANTITIES.

RIGHT OF WAY MARKERS				
	Item #: 708-02.01			
SHEET NO.	QUANTITIES			
	"A"	"B"	"C"	TOTALS
4B	7	4	4	15
TOTALS	7		4	15

PROPOSED GUARDRAIL												
SHEET NO.	LOCATION	SIDE		STATIONS		GUARDRAIL					TERMINAL ANCHORS	
						METAL BEAM GUARD FENCE 705-01.04 (L.F.)	W BEAM GR (TYPE 2) MASH TL3 705-06.02 (L.F.)	RADIUS RAIL 706-06.03 (EACH)	ROUND END ELEMENT 706-10.26 (EACH)	GUARDRAIL REOMOVED 706-01 (L.F.)	IN-LINE MASH TL3 705-06.11 (EACH)	TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH)
		LT	RT	FROM	TO							
4	S.R. 113	X		109+91.22	110+59.31					68		
4	S.R. 113		X	109+90.24	110+58.05					68		
4	S.R. 113	X		110+80.70	111+49.41					68		
4	S.R. 113		X	110+79.33	111+47.23					68		
4B	S.R. 113	X		109+14.31	109+28.95			20	1		1	
4B	S.R. 113	X		109+28.95	110+58.62		130					
4B	S.R. 113	X		110+58.62	110+77.37	19						
4B	S.R. 113	X		110+77.37	114+22.45		292					1
4B	S.R. 113		X	109+18.89	109+33.36			20	1		1	
4B	S.R. 113		X	109+33.36	110+58.62		126					
4B	S.R. 113		X	110+58.62	110+77.37	19						
4B	S.R. 113		X	110+77.37	113+52.88		281				1	
4B	LEADVALE RD.		X	600+20.69	600+48.47		50				1	
4B	LEADVALE RD.		X	600+48.47	600+88.00		40				1	
4B	LEADVALE RD.		X	600+88.00	601+02.58			20	1			
TOTALS						38	917	60	3	272	5	1

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03/17/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

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SLAB CULVERT TABULATION																
STATION	LOCATION	TYPE	SKEW	NO. BARRELS	WIDTH	HEIGHT	LENGTH	DRAINAGE AREA ACRES	STANDARD DRAWING NO.	CULVERT ≤ 20 FT.		WINGWALLS		STD. DWG. STD-17-17 & 18	RIP-RAP CLASS B 709-05.08 TON	CULVERT EXC. ▲ CU. YD.
		SLAB								CLASS "A" CONCRETE 604-01.01 CU. YD.	STEEL BAR REINF. 604-01.02 LB.	CLASS "A" CONCRETE 604-01.01 CU. YD.	STEEL BAR REINF. 604-01.02 LB.	GRANULAR BACKFILL 303-01.01 TONS		
110+68	S.R. 113	X	90°	1	14	6	37.5	2	STD-17-119	38	9038	10	1367	131	23	9
TOTALS										38	9038	10	1367	131	23	9

▲ ALL COST OF CULVERT EXCAVATION WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

CATCH BASINS										
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE ELEV.	INVERT ELEV.	DEPTH (FT.)	INSIDE DIM.	STANDARD DRAWING NO.	PAY ITEMS
										TYPE 42 611-42.01 0'-4'
4B	S.R. 113	108+49.16	16.09	CB #1	1067.04	1064.10	2.94	32"	D-CB-42S	1
										1

SPECIAL DITCHES									
ROADWAY	STATION		SIDE	CONFIGURATION					RIP-RAP CLASS A-1 709-05.06 (TON)
	FROM	TO		FORE (H/V)	BOTTOM WIDTH (FT.)	TOP WIDTH (FT.)	MIN. DEPTH (FT.)	BACK (H/V)	
S.R. 113	109+50.00	110+50.00	LT	2:1	0	8	2	2:1	59
S.R. 113	109+50.00	110+50.00	RT	2:1	0	8	2	2:1	59
S.R. 113	111+00.00	112+00.00	LT	2:1	0	8 - 10	2	2:1	59
S.R. 113	111+00.00	112+00.00	RT	2:1	0	8 - 10	2	2:1	59
TOTALS									236

STORM DRAINAGE PIPES						
SHEET NO.	INLET		OUTLET		% GRADE	REINFORCED CONCRETE PIPE - CLASS, ITEM NO., SIZE & LENGTH (FT.)
	CODE NO.	OUTLET ELEV.	CODE NO.	INLET ELEV.		CLASS III 607-39.02 18" 100'
4B	1	1064.10	2	1060.79	3.28%	100'
TOTALS						100'

STORM DRAIN ENDWALLS								
LOCATION \ SHEET NO.	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	PROTECTED ENDWALLS	
							CLASS "A" CONCRETE 611-07.01 (C.Y.)	STEEL BAR REINFORCING 611-07.02 (LB.)
4B	109+50	23.73	90°	2	ST	D-PE-4	1	45
TOTALS							1	45

REMOVAL OF STRUCTURES				
SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
4	110+68	TRACT 1	THREE WIRE HIGH TENSILE ELECTRIC FENCING AND POSTS, 587 LF	ITEM NO. 202-04.02; SALVAGE SHALL BECOME PROPERTY OF THE CONTRACTOR
4	108+54	TRACT 4	CATCH BASIN, 15" PLASTIC PIPE, 190 LF	ITEM NO. 202-04.01; SALVAGE SHALL BECOME PROPERTY OF THE CONTRACTOR
4	110+68	S.R. 113	4 - 36" PLASTIC PIPES, 160 LF (40 LF PER EACH)	ITEM NO. 202-02.01; SALVAGE SHALL BECOME PROPERTY OF THE CONTRACTOR

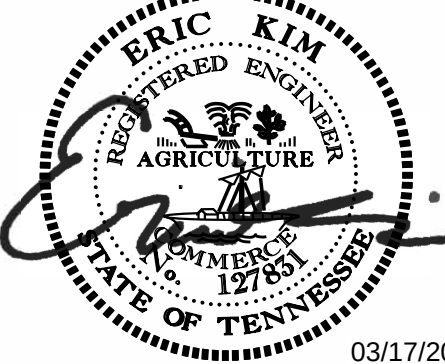
REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK		
PAY ITEM	TRACT NO.	DESCRIPTION
202-06.01	TRACT 5	SHOP / SHED, 1860 LF; SALVAGE SHALL BECOME PROPERTY OF THE CONTRACTOR
NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE REMOVALS.		

PAVEMENT QUANTITIES								
LOCATION (ROADWAY)	TYPE - GRADE - PAY ITEM (TON)						COLD PLANING	
	MINERAL AGG.	BITUMINOUS PLANT MIX BASE (HOT MIX)		PRIME COAT		TACK COAT	ASPHALTIC CONCRETE SURFACE (HOT MIX)	BITUMINOUS PLANT MIX (3)
	D	A	B-M2				D	TON
	303-01	307-01.01	307-01.08	402-01	402-02	403-01	411-01.10	415-01.01
S.R. 113	465 (1)	112	73	1.1	4.0	0.4	53	52
S.R. 113 (RESURFACING)						1.3	207 (2)	106
LEADVALE (RESURFACING)						0.3	23	23
PRIVATE DRIVEWAYS	36			0.3	1.1		18	
TOTALS	501	112	73	2	5	2	351	181

- (1) INCLUDES 50 ADDITIONAL TONS FOR MAINTENANCE OF TRAFFIC AT TEMPORARY SIGNALS DETECTION LOOPS.
(2) INCLUDES 100 ADDITIONAL TONS FOR MAINTENANCE OF TRAFFIC AT TEMPORARY SIGNALS DETECTION LOOPS.
(3) TO BE USED FOR RESURFACING AND MAINTENANCE OF TRAFFIC AT TEMPORARY SIGNALS DETECTION LOOPS.

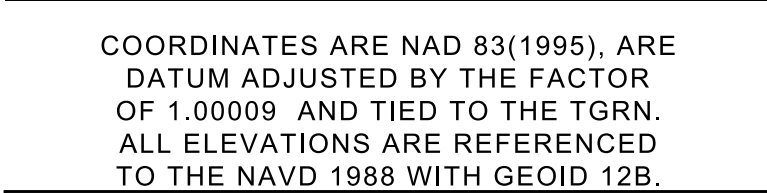
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	2F1

REV. 03/14/25; REVISED STORM DRAIN ENDWALLS TABULATION.

SEALED BY
 03/17/2025

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
TABULATED QUANTITIES

REV. 03/14/25: REVISED STA. 109+50 BEGIN
SPECIAL DITCH LT & RT OFFSET LABELS.
REVISED STORM DRAIN ENDWALL CODE 2
OFFSET LABEL.



PROPOSED LAYOUT

STA.106+40.00 TO STA.115+45.00
SCALE: 1"= 50'

THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT OR MATERIALS WILL ENTER, ANY PORTION OF STR-1 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT PERMITTED LOCATIONS.

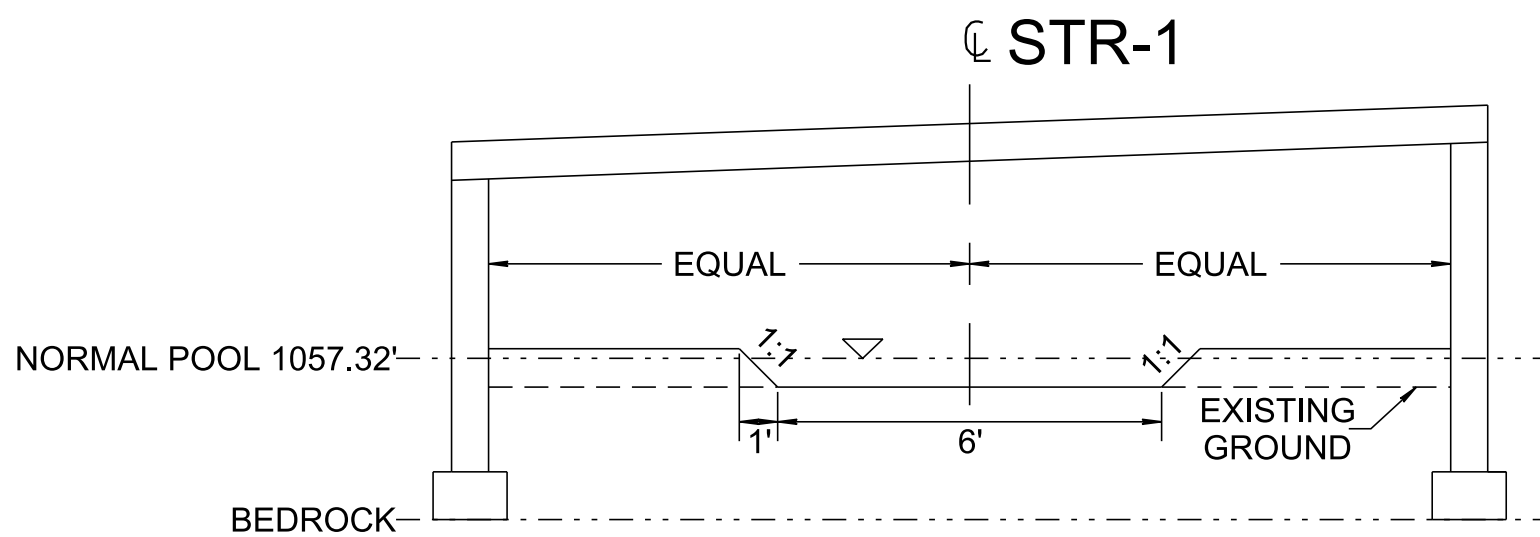
6" DSYL = 6" DOUBLE SOLID YELLOW LINE
6" SSWL = 6" SINGLE SOLID WHITE LINE

SEE SHEET 5 FOR LEADVALE ROAD PROFILE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	8
PS&E	2025	45010-4215-04	8

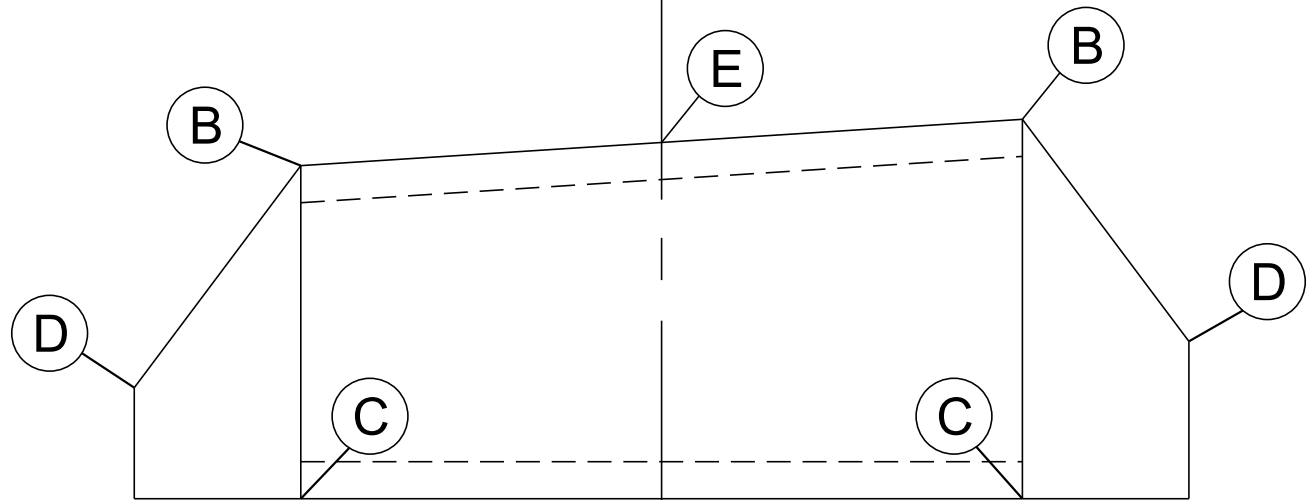
REV. 03/14/25: ADDED SHORING NOTE.

CULVERT LOW FLOW CHANNEL DETAIL
N.T.S.

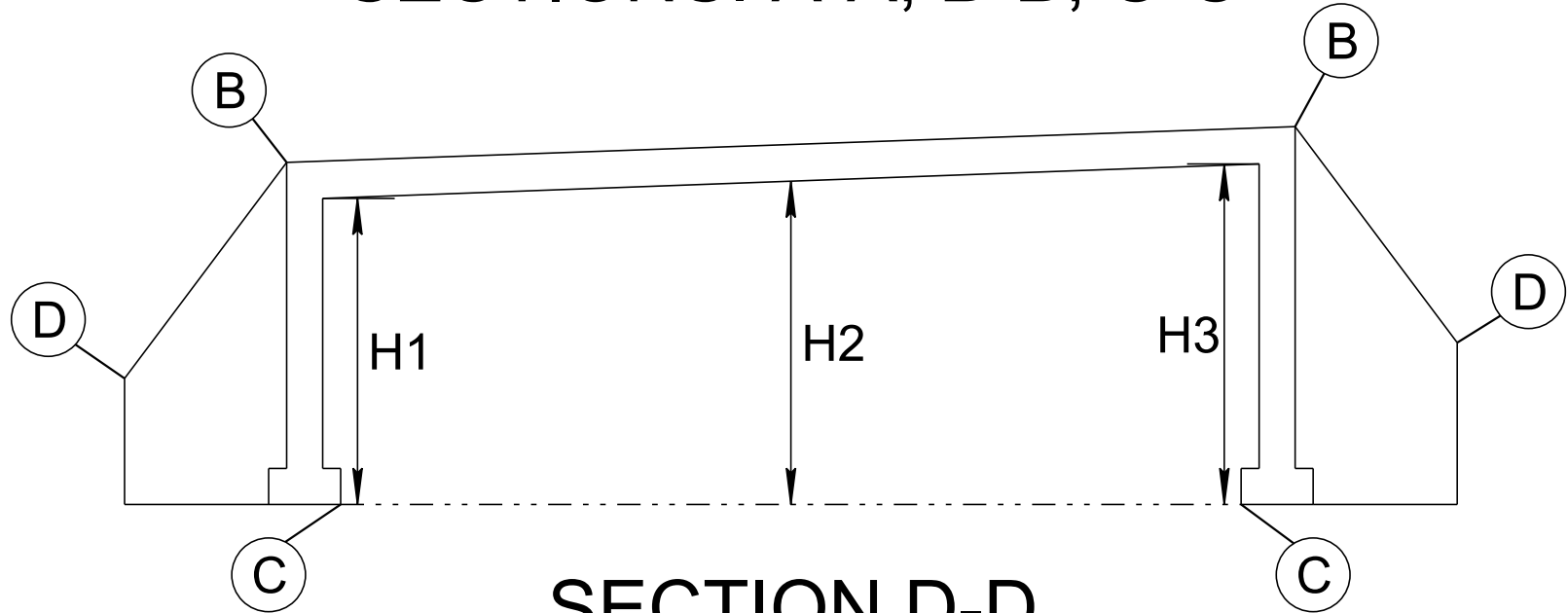


- NOTES:
- RESTORED CHANNEL WILL BE CREATED FROM EXCAVATED STREAM BANK MATERIALS. WHEN THESE MATERIALS ARE NOT SUFFICIENT, THE REMAINDER OF MATERIALS REQUIRED WILL BE COMPRISED OF MATERIALS THAT ARE APPROXIMATELY THE SAME SIZE AND COMPOSITION AS THE UPSTREAM AND DOWNSTREAM CHANNEL MATERIALS. THE STANDARD DRAWING FOR SUBSTRATE RESTORATION D-NSD-30 SHOULD BE USED.
 - ALL NATIVE BED MATERIAL DURING THE CONSTRUCTION OF THE NEW CULVERT SHOULD BE STORED AT SITE ABOVE FLOOD ELEVATION AND CAPSULATED BY AN ENHANCED SILT FENCE.

CL S.R. 113

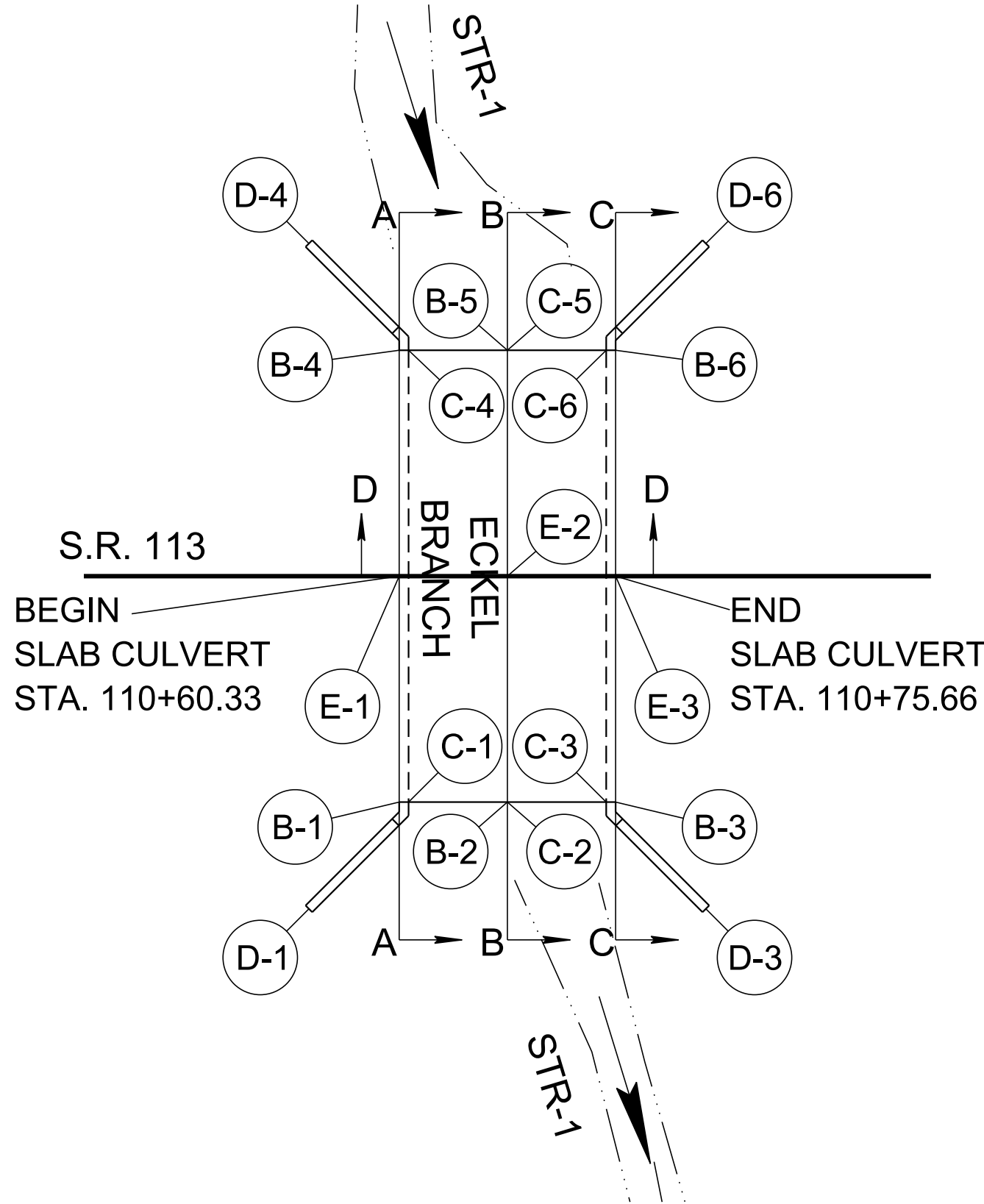


SECTIONS: A-A, B-B, C-C



SECTION D-D

	INLET	CENTER	OUTLET
H1	6.00'	6.52'	6.33'
H2	6.02'	6.50'	6.28'
H3	6.02'	6.48'	6.23'



POINT	STATION	OFFSET
B-1	110+60.33	18.75'
B-2	110+68.00	18.75'
B-3	110+75.66	18.75'
B-4	110+60.33	-18.75'
B-5	110+68.00	-18.75'
B-6	110+75.66	-18.75'
E-1	110+60.33	0.00'
E-2	110+68.00	0.00'
E-3	110+75.66	0.00'

BRIDGE DECK FINISH TO BE BURLAP DRAG IN ACCORDANCE WITH METHOD "A" AS SPECIFIED IN SUBSECTION 604.23 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

IF SHORING IS REQUIRED, ITS COST SHALL BE INCLUDED IN THE COST OF OTHER ITEMS AND WILL NOT BE PAID FOR SEPARATELY. SHORING SHOWN IS CONCEPTUAL AND DOES NOT RELIEVE THE CONTRACTOR OF DETERMINING ITS MEANS AND METHODS OF CONSTRUCTION.

SLAB CULVERT
STATION: STA. 110+68.00
STRUCTURE: 37.50' OF 14' X 6' SLAB CULV.
SKEW 90° DEG.
DRAINAGE AREA 1.5 SQ. MI.
DESIGN DISCHARGE (Q25) 406 CFS
Q25 BACKWATER 2.08 FT AT 1062.82 ELEV.
VELOCITY (Q25) 8.47 FT/S
DISCHARGE (Q100) 574 CFS AT 1063.27 ELEV.
INLET INVERT 1055.48 ELEV.
OUTLET INVERT 1055.29 ELEV.
APPROACH OVERTOPPING 1062.75 ELEV.

STANDARD DRAWING NOS.: STD-17-1, STD-17-2, STD-17-3, STD-17-4, STD-17-5, STD-17-6, STD-17-7, STD-17-10, STD-17-11, STD-17-15, STD-17-16, STD-17-17, STD-17-18, STD-17-20, STD-17-24, STD-17-25, STD-17-28, STD-17-119

QUANTITIES:
CLASS "A" CONCRETE 48 C.Y.
STEEL BAR REINFORCING 10405 LB.
GRANULAR BACKFILL 131 TON
CLASS "B" RIP-RAP 23 TON
CULVERT EXCAVATION 9 C.Y.

SLAB TABULATION

STATION	STD. DWG.	NO. BARRELS	WIDTH	HEIGHT	LENGTH
110+68.00	STD-17-119	1	14	6	37.5
FILL HEIGHT	CALCULATION FACTORS		SECTION LENGTH FT.	QUANTITY	
	CONCRETE. CY/FT	REINF. STEEL LB/FT		CONCRETE. C.Y.	REINF. STEEL LB.
2.99' TO 0.00'	0.96	241	37.5	38	9038
SUB TOTALS			37.5	38	9038

WINGWALL TABULATION

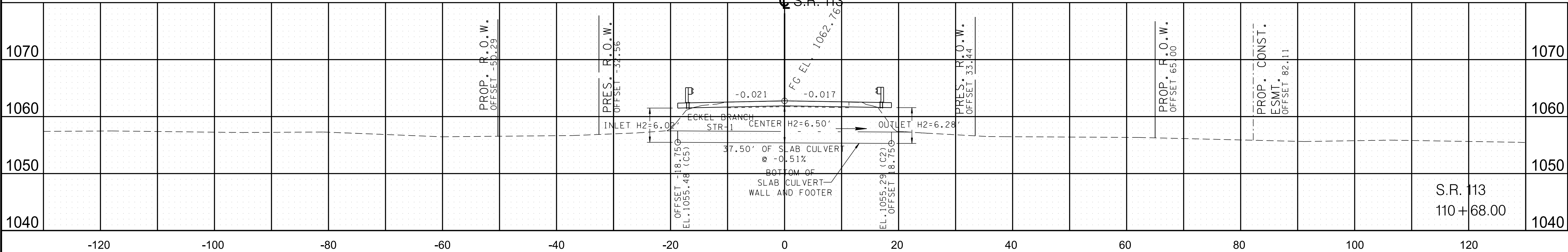
STD. DWG.	SLAB HEIGHT FT.	ST HEIGHT FT.	CURB HEIGHT FT.	TOTAL HEIGHT FT.	DESIGN HEIGHT FT.
STD-17-1 THRU STD-17-6,	6	0.875'	0	6.875'	7
STD-17-10,	WINGWALL	SKEW	FILL	CONCRETE.	REINF. STEEL
STD-17-15 THRU STD-17-18	STD. DWG.		SLOPE	C.Y.	LB.
	STD-7-11	90	2:1	10	1367

TOTAL QUANTITY

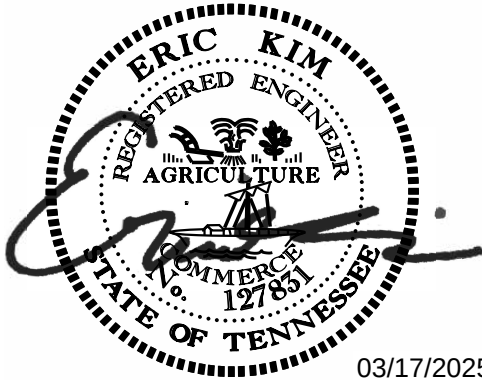
48 10405

CONCRETE SLAB CULVERT ELEVATIONS

	B-1	B-2	B-3	B-4	B-5	B-6
TOP OF SLAB ELEV.	1062.50'	1062.44'	1062.38'	1062.35'	1062.37'	1062.37'
	C-1	C-2	C-3	C-4	C-5	C-6
FLOW LINE ELEV.	1055.29'	1055.29'	1055.29'	1055.48'	1055.48'	1055.48'
	D-1		D-3	D-4		D-6
END WING ELEV.	1058.51'		1058.51'	1058.76'		1058.76'



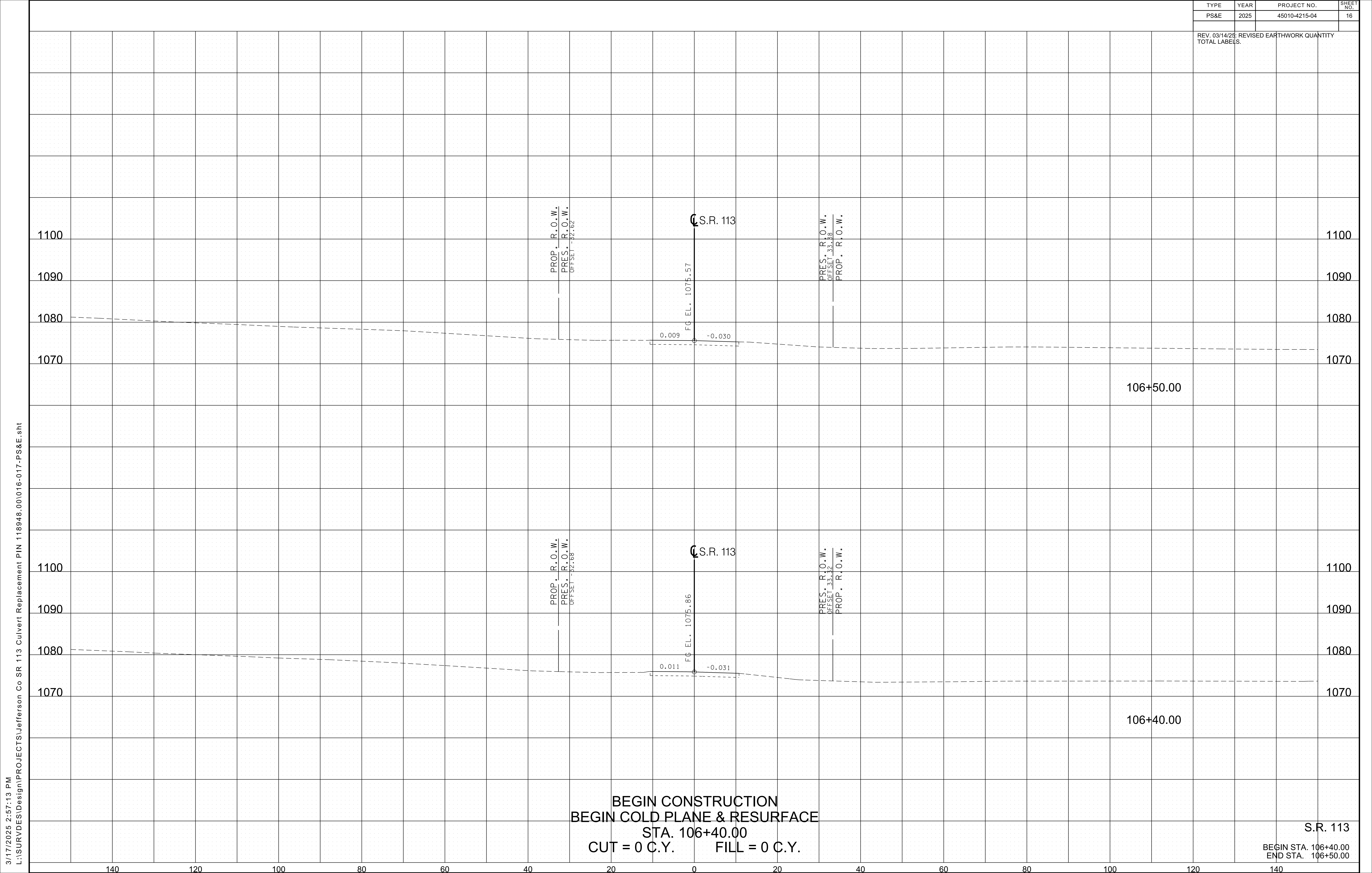
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

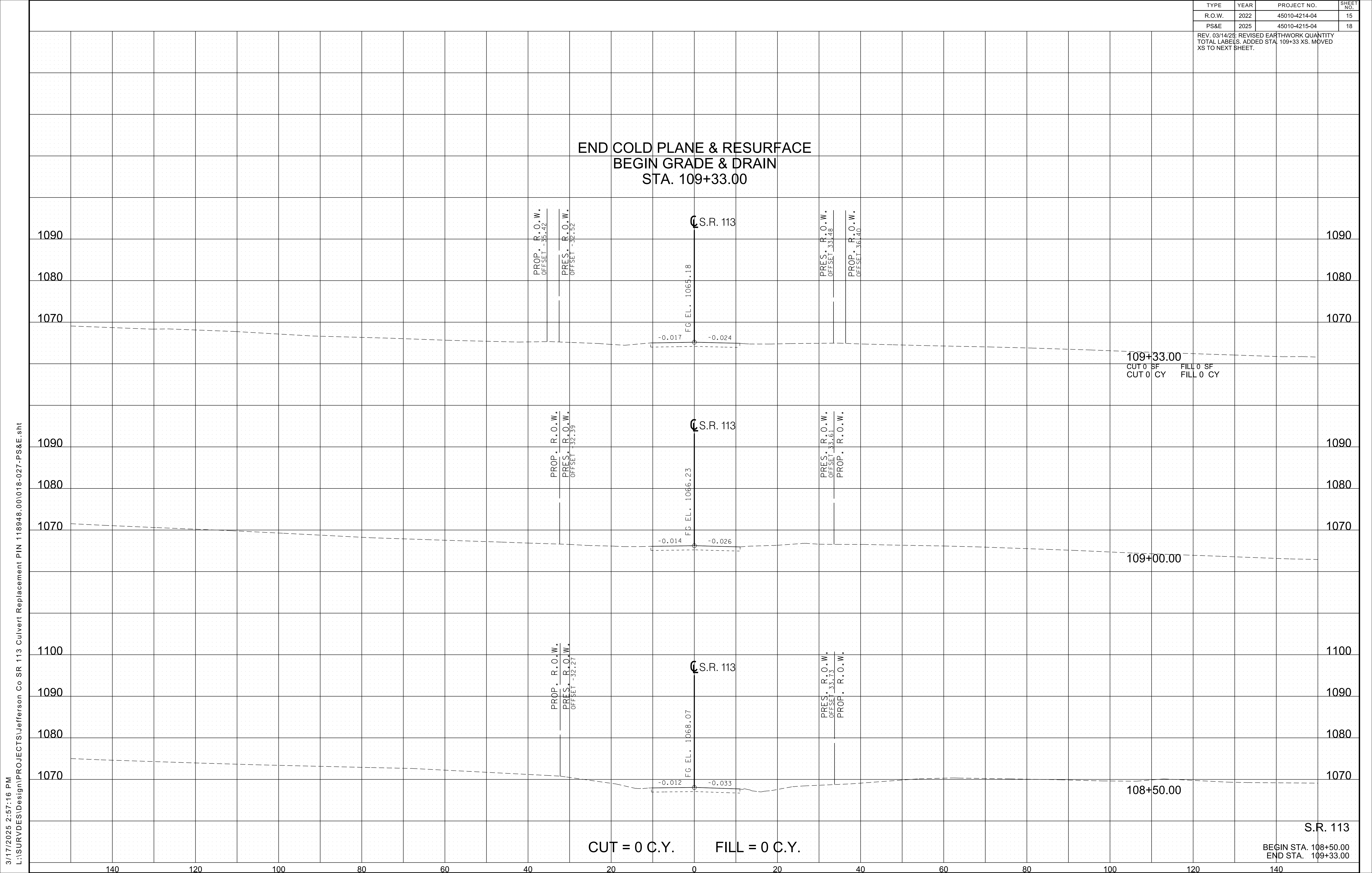
SCALE: 1"=10' HORIZ.
1"=10' VERT.



TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	16
REV. 03/14/25: REVISED EARTHWORK QUANTITY TOTAL LABELS.			

BEGIN CONSTRUCTION
BEGIN COLD PLANE & RESURFACE
STA. 106+40.00
CUT = 0 C.Y. FILL = 0 C.Y.

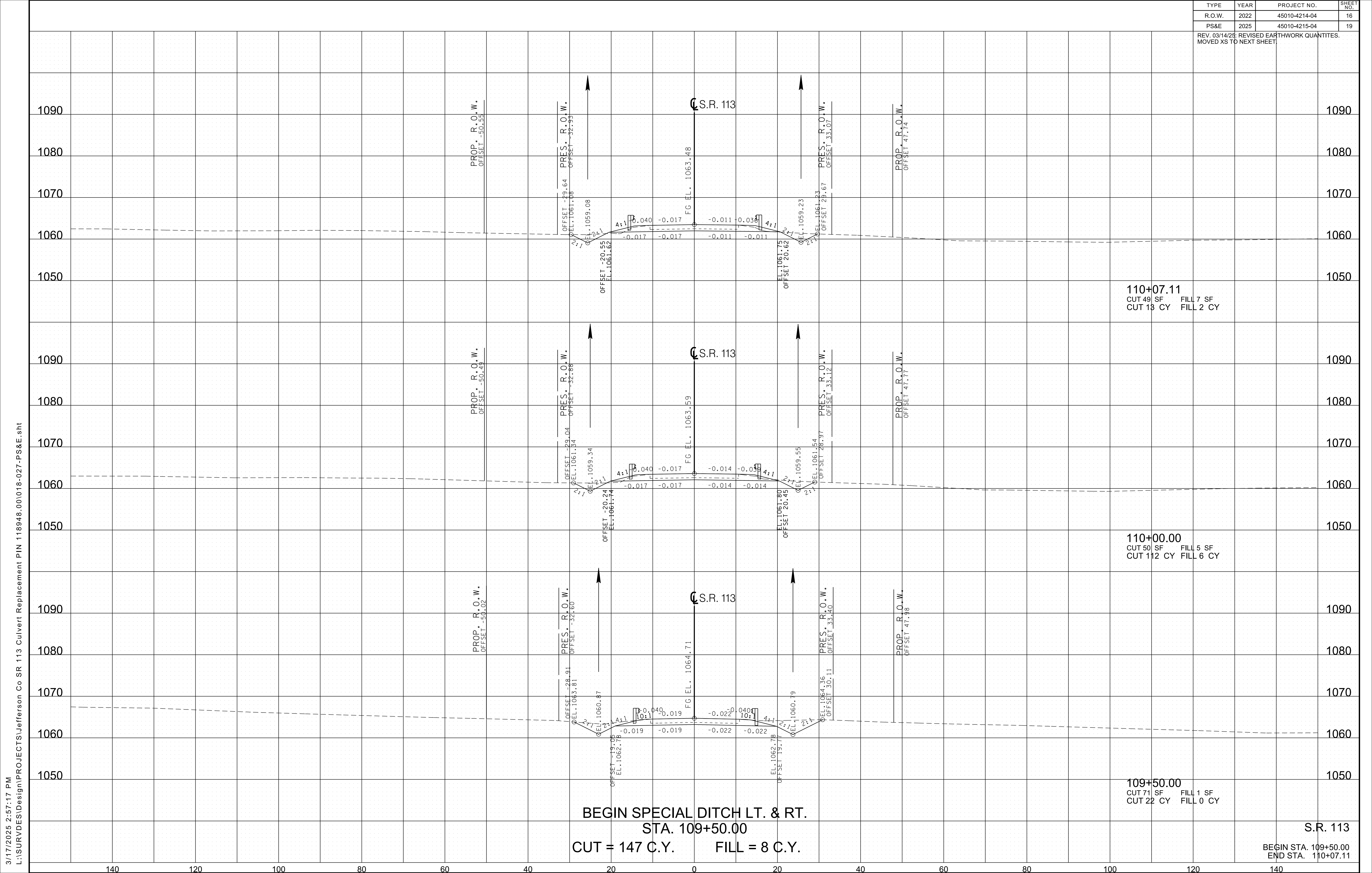
S.R. 113
BEGIN STA. 106+40.00
END STA. 106+50.00



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	15
PS&E	2025	45010-4215-04	18

REV. 03/14/25: REVISED EARTHWORK QUANTITY
TOTAL LABELS. ADDED STA. 109+33 XS. MOVED
XS TO NEXT SHEET.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	16
PS&E	2025	45010-4215-04	19

REV. 03/14/25: REVISED EARTHWORK QUANTITIES.
MOVED XS TO NEXT SHEET.

110+07.11
CUT 49 SF FILL 7 SF
CUT 13 CY FILL 2 CY

110+00.00
CUT 50 SF FILL 5 SF
CUT 112 CY FILL 6 CY

109+50.00
CUT 71 SF FILL 1 SF
CUT 22 CY FILL 0 CY

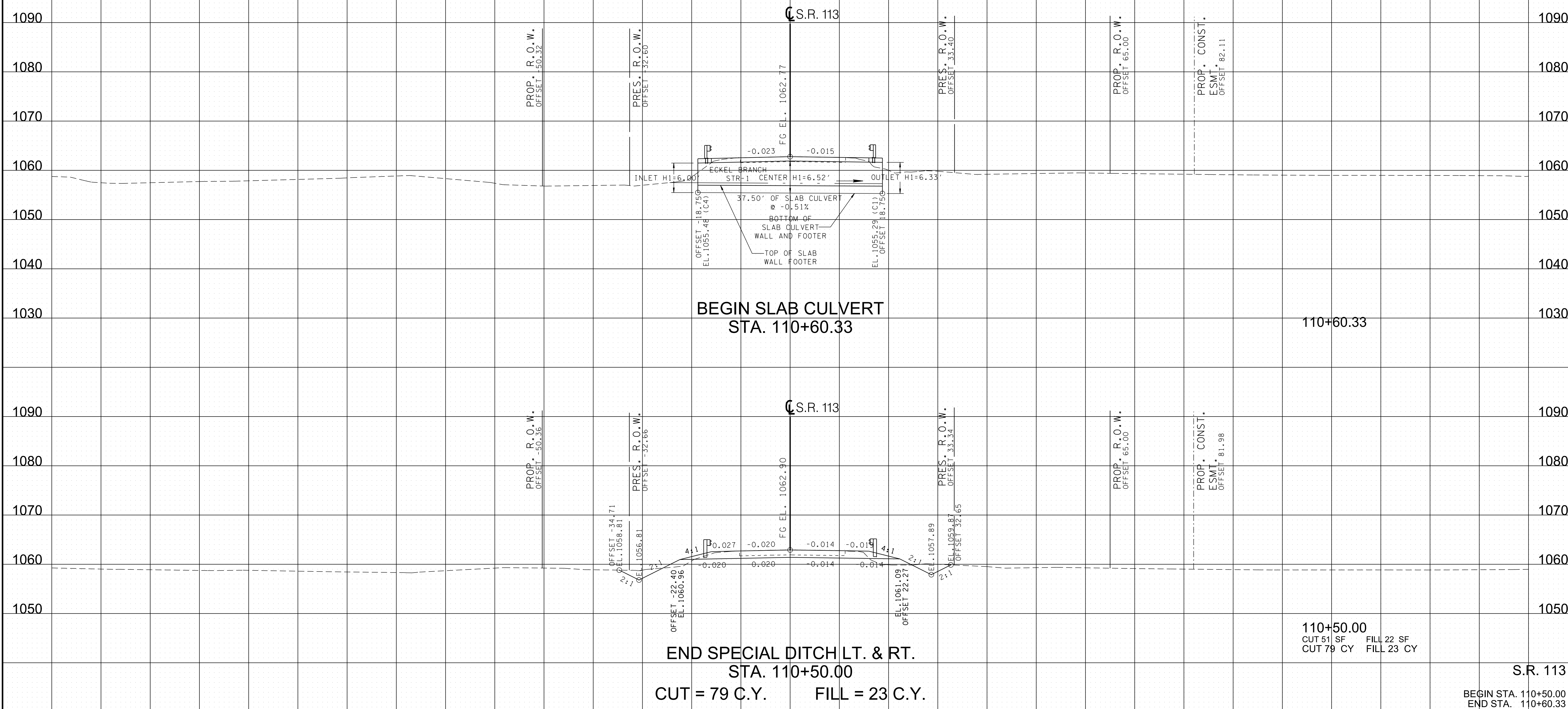
BEGIN SPECIAL DITCH LT. & RT.
STA. 109+50.00
CUT = 147 C.Y. FILL = 8 C.Y.

S.R. 113

BEGIN STA. 109+50.00
END STA. 110+07.11

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	17
PS&E	2025	45010-4215-04	20

REV. 03/14/25: REVISED EARTHWORK QUANTITIES
MOVED XS TO NEXT SHEET.



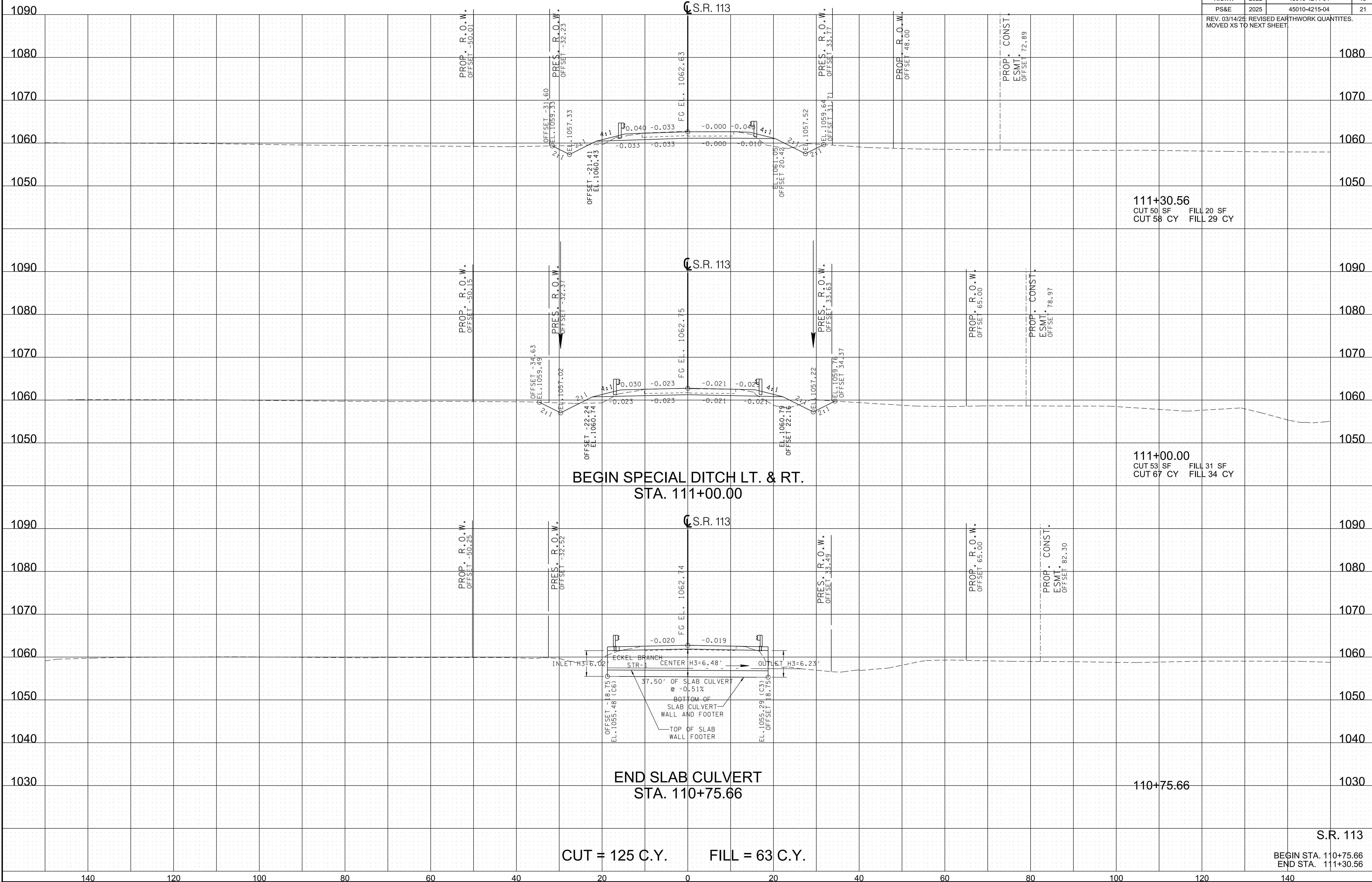
BEGIN STA. 110+50.00
END STA. 110+60.33

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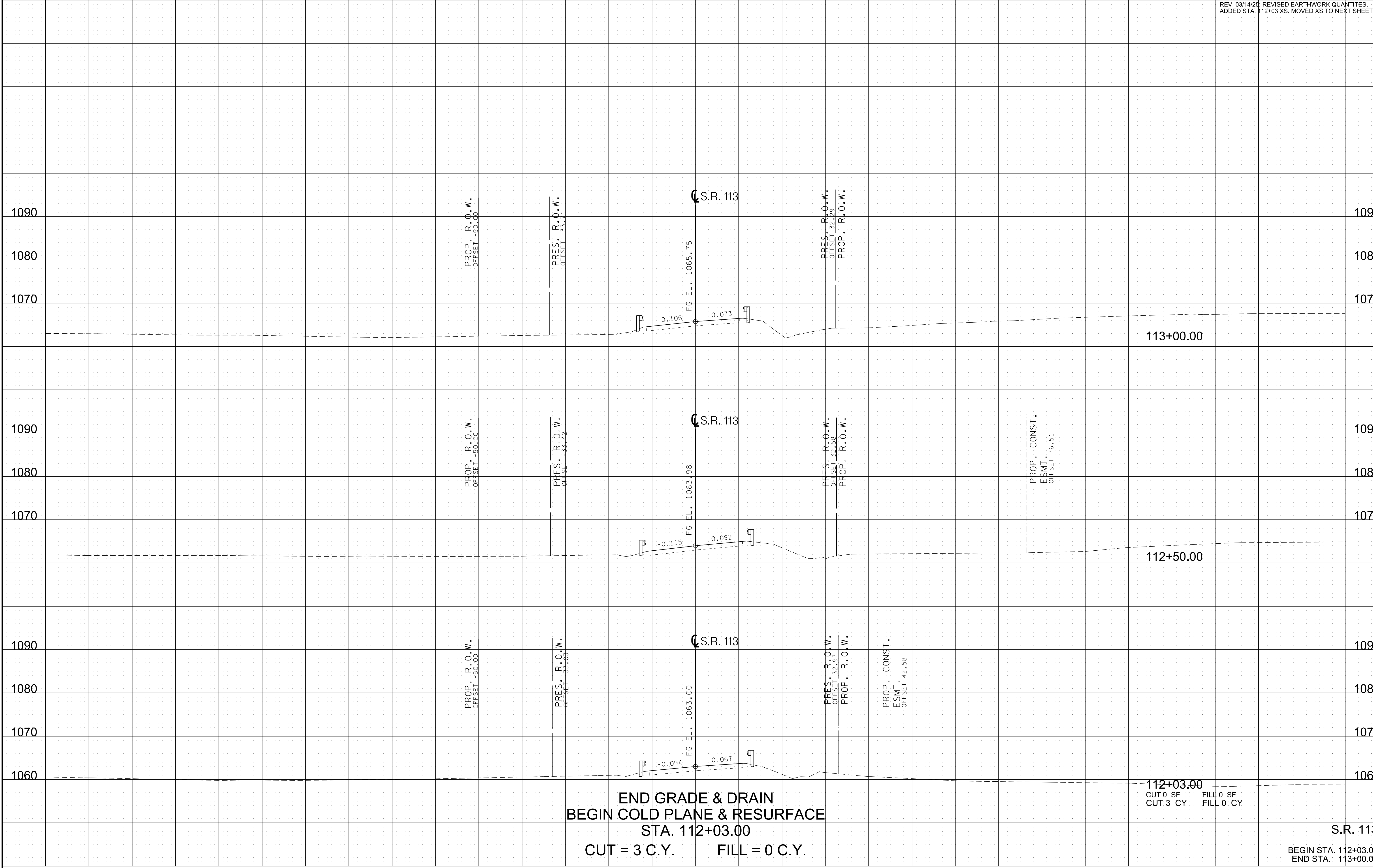
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	18
PS&E	2025	45010-4215-04	21

REV. 03/14/25: REVISED EARTHWORK QUANTITIES.
MOVED XS TO NEXT SHEET.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	20
PS&E	2025	45010-4215-04	23

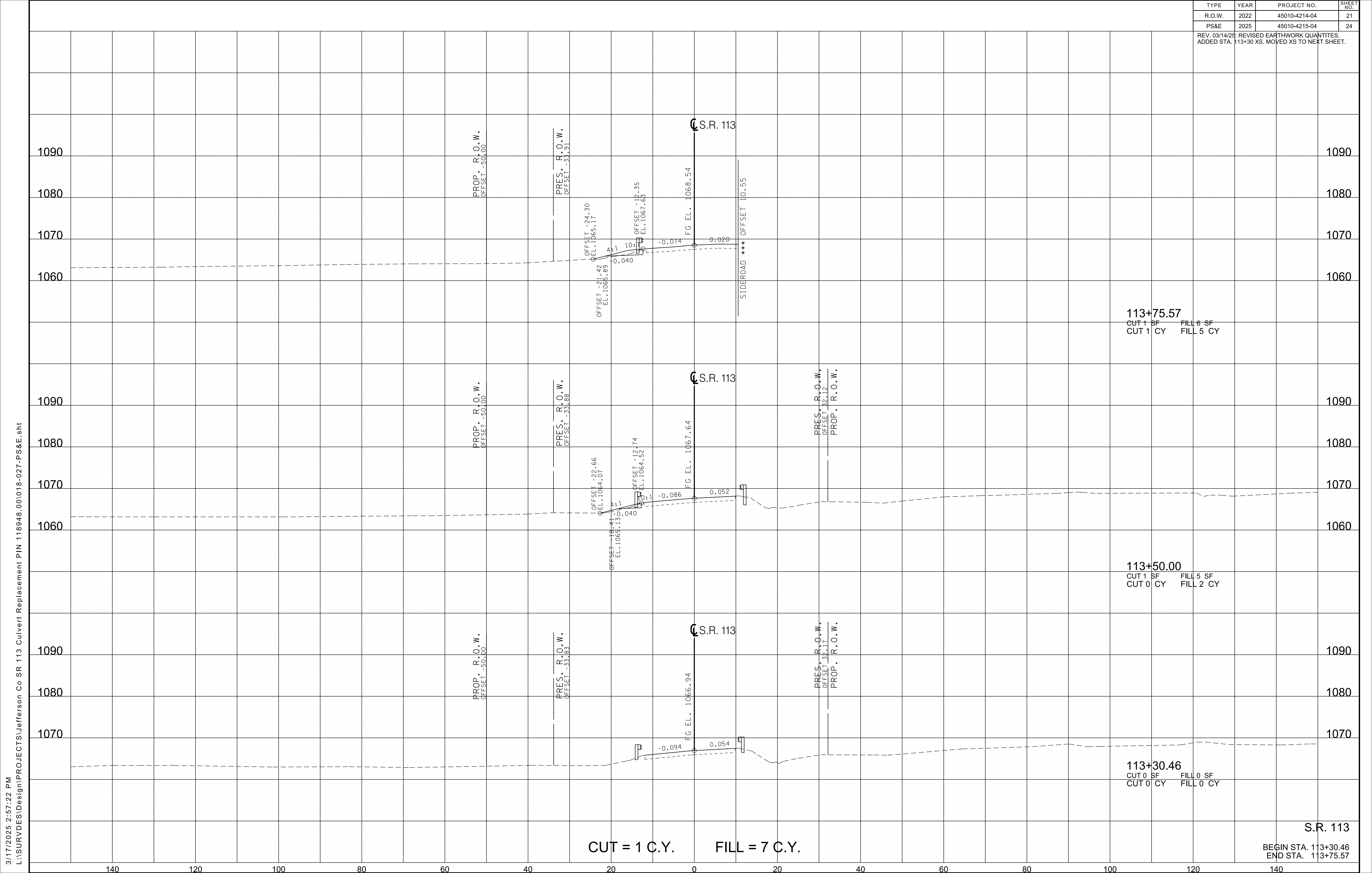
REV. 03/14/25: REVISED EARTHWORK QUANTITIES.
ADDED STA. 112+03 XS. MOVED XS TO NEXT SHEET.



END GRADE & DRAIN
BEGIN COLD PLANE & RESURFACE
STA. 112+03.00
CUT = 3 C.Y. FILL = 0 C.Y.

CUT 0 SF FILL 0 SF
CUT 3 CY FILL 0 CY

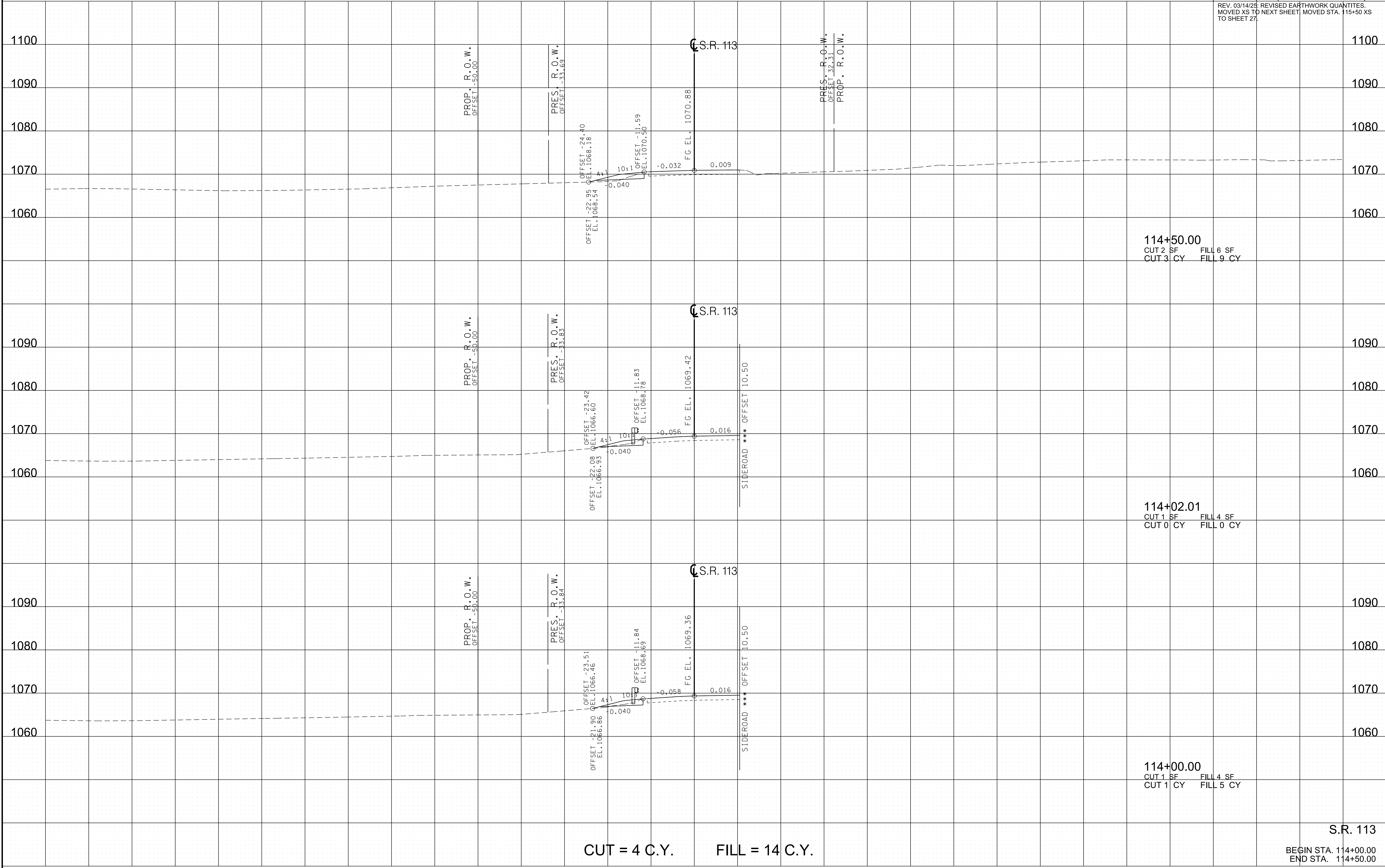
S.R. 113
BEGIN STA. 112+03.00
END STA. 113+00.00

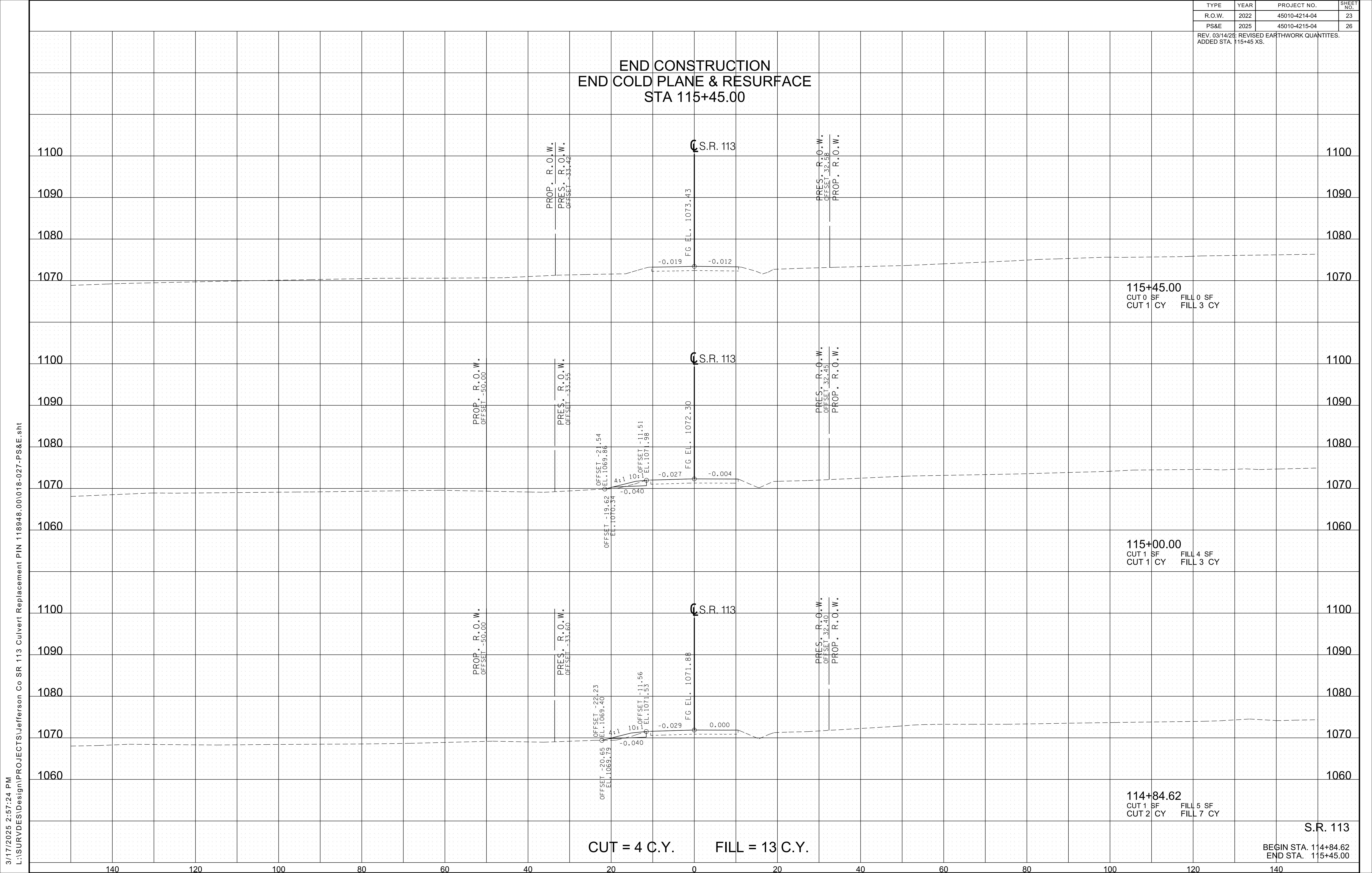


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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	22
PS&E	2025	45010-4215-04	25

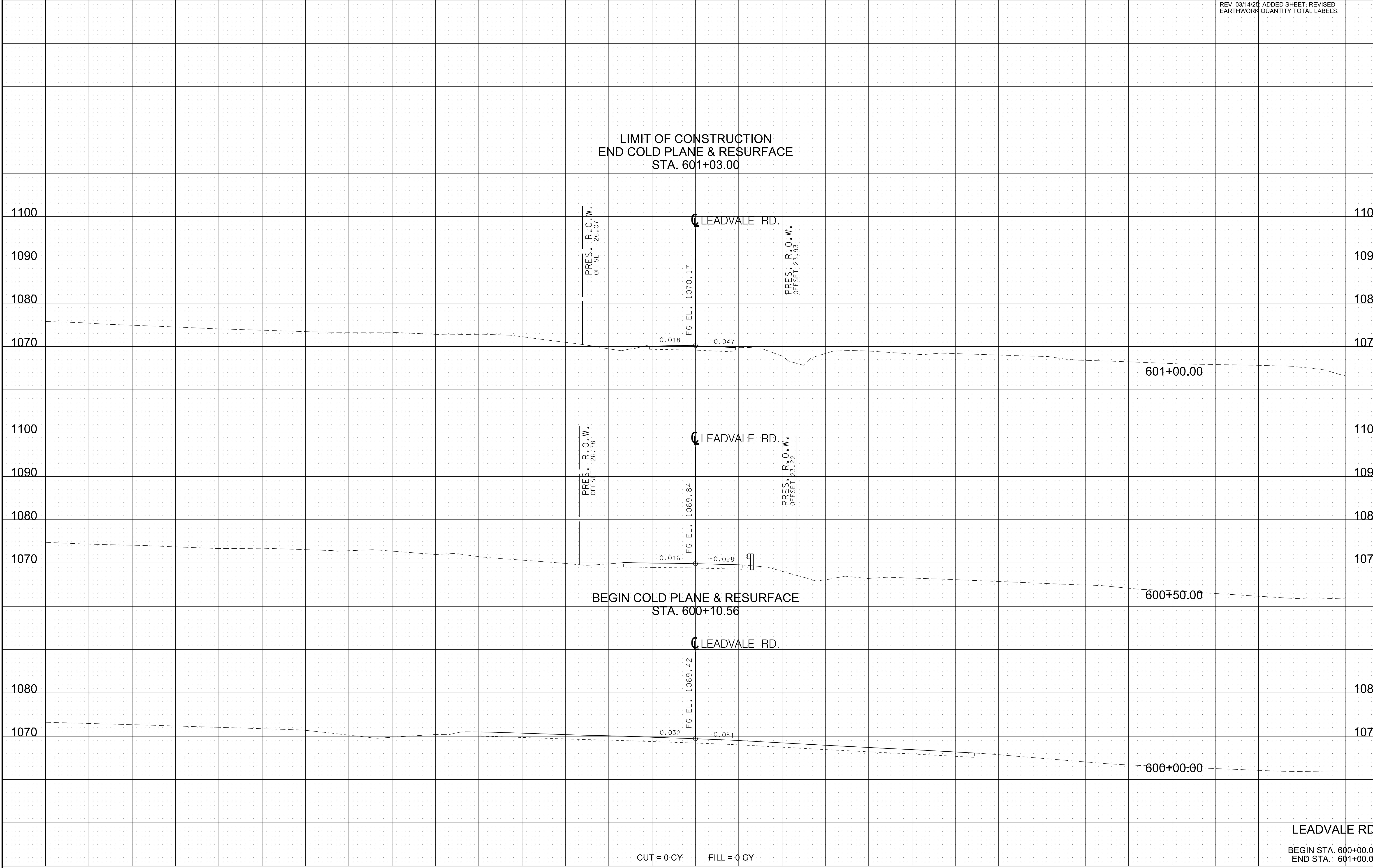
REV. 03/14/25: REVISED EARTHWORK QUANTITIES. MOVED XS TO NEXT SHEET. MOVED STA. 115+50 XS TO SHEET 27.





TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	25
PS&E	2025	45010-4215-04	28

REV. 03/14/25: ADDED SHEET, REVISED EARTHWORK QUANTITY TOTAL LABELS.



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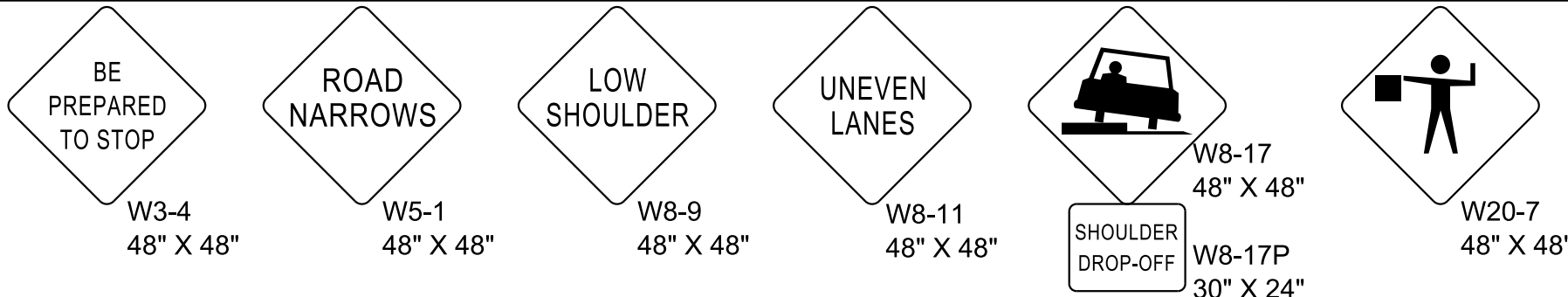
LEADVALE RD.

BEGIN STA. 600+00.00
END STA. 601+00.00

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TRAFFIC CONTROL SIGN TABULATION											
M.U.T.C.D. SIGN NO.	LEGEND	SIZE IN INCHES			S.F.	NO.	NO.	TOTAL	ITEM NO.	STANDARD	REMARKS
		L	X	W		REQUIRED PHASE I	REQUIRED PHASE II	NO. REQUIRED	712-06 S.F.	DRAWING NO.	
G20-2	END ROAD WORK	48"	X	24"	8	3	3	3	24	T-WZ-32	SEE ALSO T-WZ-35
M3-1	NORTH	30"	X	15"	3	12	12	12	38		WIDE LOAD DETOUR - INTERSTATE
M3-1	NORTH	24"	X	12"	2	4	4	4	8		WIDE LOAD DETOUR - STATE ROUTE
M3-3	SOUTH	30"	X	15"	3	8	8	8	25		WIDE LOAD DETOUR - INTERSTATE
M3-3	SOUTH	24"	X	12"	2	6	6	6	12		WIDE LOAD DETOUR - STATE ROUTE
M4-8	DETOUR	30"	X	15"	3	20	20	20	63		WIDE LOAD DETOUR - INTERSTATE
M4-8	DETOUR	24"	X	12"	2	10	10	10	20		WIDE LOAD DETOUR - STATE ROUTE
M4-8A	END ROAD WORK	24"	X	18"	3	2	2	2	6		WIDE LOAD DETOUR - STATE ROUTE
M4-8(MOD.)	WIDE LOAD	30"	X	15"	3	20	20	20	63		WIDE LOAD DETOUR - INTERSTATE
M4-8(MOD.)	WIDE LOAD	24"	X	12"	2	12	12	12	24		WIDE LOAD DETOUR - STATE ROUTE
M6-1L	LEFT ARROW	21"	X	15"	2	4	4	4	9		WIDE LOAD DETOUR - STATE ROUTE
M6-1R	RIGHT ARROW	21"	X	15"	2	2	2	2	4		WIDE LOAD DETOUR - STATE ROUTE
M6-2L	45 DEGREE LEFT ARROW	30"	X	21"	4	2	2	2	9		WIDE LOAD DETOUR - INTERSTATE
M6-2R	45 DEGREE RIGHT ARROW	30"	X	21"	4	4	4	4	18		WIDE LOAD DETOUR - INTERSTATE
M6-3	STRAIGHT ARROW	30"	X	21"	4	14	14	14	61		WIDE LOAD DETOUR - INTERSTATE
M6-3	STRAIGHT ARROW	21"	X	15"	2	4	4	4	9		WIDE LOAD DETOUR - STATE ROUTE
R10-6	STOP HERE ON RED	24"	X	36"	6	2	2	2	12	T-WZ-32	SEE ALSO T-WZ-35
R10-6 (MOD.)	STAY IN LANE TO EXT. GREEN	30"	X	42"	9	2	2	2	18	T-WZ-32	SEE ALSO T-WZ-35
SPECIAL	S.R. 113 NORTH CLOSED TO WIDE LOADS OVER 10 FT. 3 MILES NORTH OF I-40	60"	X	48"	20	10	10	10	200		WIDE LOAD DETOUR
SPECIAL	S.R. 113 SOUTH CLOSED TO WIDE LOADS OVER 10 FT.	60"	X	30"	13	2	2	2	25		WIDE LOAD DETOUR
TN-6B	S.R. 113	30"	X	24"	5	32	32	32	160		WIDE LOAD DETOUR
W1-4R	REVERSE CURVE SYMBOL - RIGHT	48"	X	48"	16	1	1	1	16	T-WZ-32	SEE ALSO T-WZ-35
W3-3	SIGNAL AHEAD (SYMBOL)	48"	X	48"	16	3	3	3	48	T-WZ-32	SEE ALSO T-WZ-35
W3-4	BE PREPARED TO STOP	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
W5-1	ROAD NARROWS	48"	X	48"	16	2	2	2	32		TO BE USED WHEN CONST. OPS. WARRANT
W8-9	LOW SHOULDER	48"	X	48"	16	2	2	2	32		TO BE USED WHEN CONST. OPS. WARRANT
W8-11	UNEVEN LANES	48"	X	48"	16	2	2	2	32		TO BE USED WHEN CONST. OPS. WARRANT
W8-17	SHOULDER DROP-OFF (SYMBOL)	48"	X	48"	16	2	2	2	32		TO BE USED WHEN CONST. OPS. WARRANT
W8-17P	SHOULDER DROP-OFF (PLAQUE)	30"	X	24"	5	2	2	2	10		TO BE USED WHEN CONST. OPS. WARRANT
W20-1	ROAD WORK 1/2 MILE	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
W20-1	ROAD WORK AHEAD	48"	X	48"	16	1	1	1	16	T-WZ-33	SEE ALSO T-WZ-35
W20-1	ROAD WORK 1500 FT	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
W20-1	ROAD WORK 1000 FT	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
W20-1	ROAD WORK 500 FT	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
W20-4	ONE LANE ROAD 1500 FT	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
W20-7	FLAGGER AHEAD (SYMBOL)	48"	X	48"	16	2	2	2	32	T-WZ-32	SEE ALSO T-WZ-35
	MAX __ MIN RED	42"	X	48"	14	3	3	3	42	T-WZ-32	SEE ALSO T-WZ-35
	MAINTAIN __ MPH SPEED	42"	X	36"	11	2	2	2	21	T-WZ-32	SEE ALSO T-WZ-35
TOTAL								1310	S.F.		

TABULATED TRAFFIC CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 45010-4215-04
712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	280
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	2
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	20
712-04.50	BARRIER RAIL DELINEATOR	EACH	11
712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
712-06	SIGNS (CONSTRUCTION)	S.F.	1310
712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	52
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	5280
730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1



SIGNS SHOWN ABOVE ARE TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT.
TO BE USED AS DIRECTED BY THE TDOT MANAGER.

TRAFFIC CONTROL NOTES

THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY.
OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE
RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE
WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

2 FLAGS ARE TO BE MOUNTED ON ALL ROAD WORK ADVANCE WARNING SIGNS.
FLAGS ARE TO BE 18"X18" AND FLORESCENT RED-ORANGE IN COLOR. COST
OF FLAGS IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

ALL CONSTRUCTION SIGNS ON S.R. 113 NORTHBOUND AND SOUTHBOUND SHALL BE COVERED
WHEN WORK WILL NOT BE AFFECTING NORTHBOUND AND SOUTHBOUND TRAFFIC. COST OF
COVERING/UNCOVERING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT
ALL COST SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06,
SIGNS (CONSTRUCTION) PER SQUARE FOOT.

ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE TDOT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	T2
PS&E	2025	45010-4215-04	T2

REV. 03/14/25: ADDED ITEM NO. 716-08.01 TO
TRAFFIC CONTROL QUANTITIES.

WIDE LOAD DETOUR NOTES

- 1) THE CONTRACTOR SHALL COORDINATE WITH THE
LOCAL TDOT DISTRICT CONSTRUCTION OFFICE
PRIOR TO SEETING UP WIDE LOAD DETOUR.
- 2) INSTALL WIDE LOAD DETOUR SIGNS RECOMMENDED
ON SHEET T7 PRIOR TO TRAFFIC CONTROL PHASING
OPERATIONS.

TRAFFIC CONTROL PHASING

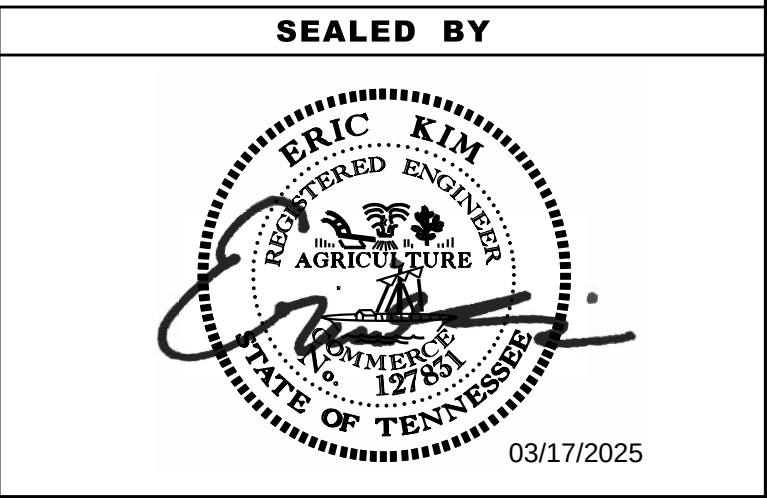
- PHASE 1:
- TEMPORARY SIGNS AND TEMPORARY TRAFFIC SIGNAL TO BE INSTALLED TO
MAINTAIN TRAFFIC DURING SOUTHBOUND LANE CLOSURE.
 - BARRIER RAIL IS TO BE INSTALLED ALONG S.R. 113 CENTERLINE ACROSS
THE EXISTING CULVERT OVER ECKEL BRANCH TO ALLOW FOR REMOVAL OF
EXISTING CROSS DRAIN PIPE AND EXCAVATION FOR SLAB CULVERT ON THE
UPSTREAM SIDE. THE BARRIER RAIL IS TO BE INSTALLED TO ALLOW FOR
ONE 10' LANE AND 1' SHOULDERS TO BE MAINTAINED AT ALL TIMES.
 - NEW CULVERT ACROSS ECKEL BRANCH IS TO BE CONSTRUCTED ON THE
UPSTREAM SIDE OF PROPOSED CULVERT AWAY FROM EXISTING TRAFFIC.
 - NEW WESTBOUND S.R. 113 ROADWAY IS TO BE CONSTRUCTED.
 - NEW GUARDRAIL TO BE PLACED ALONG NEW EASTBOUND S.R. 113 ROADWAY.
 - MAINTAIN ACCESS TO PRIVATE DRIVES THROUGHOUT CONSTRUCTION.

- PHASE 2:
- TEMPORARY SIGNS TO BE UPDATED FOR PHASE 2 TRAFFIC SHIFT AND TEMPORARY
TRAFFIC SIGNAL REMAIN IN PLACE TO MAINTAIN TRAFFIC DURING NORTHBOUND
LANE CLOSURE.
 - BARRIER RAIL IS TO BE SHIFTED FROM PHASE 1 ALONG S.R. 113 CENTERLINE
ACROSS THE EXISTING CULVERT OVER ECKEL BRANCH TO ALLOW FOR REMOVAL
OF EXISTING CROSS DRAIN PIPE AND EXCAVATION FOR SLAB CULVERT ON THE
DOWNSTREAM SIDE. THE BARRIER RAIL IS TO BE INSTALLED TO ALLOW FOR
ONE 10' LANE AND 1' SHOULDERS TO BE MAINTAINED AT ALL TIMES.
 - NEW CULVERT ACROSS ECKEL BRANCH IS TO BE CONSTRUCTED ON THE
DOWNSTREAM SIDE OF PROPOSED CULVERT AWAY FROM EXISTING TRAFFIC.
 - NEW EASTBOUND S.R. 113 ROADWAY IS TO BE CONSTRUCTED.
 - NEW GUARDRAIL TO BE PLACED ALONG NEW WESTBOUND S.R. 113 ROADWAY.
 - REMOVE BARRIER RAIL, TEMPORARY TRAFFIC SIGNAL, AND TRAFFIC CONTROL DEVICES.

- PHASE 3
- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES TO ALLOW CONSTRUCTION OF
CATCH BASIN, DRAIN PIPE, AND ENDWALL ACROSS TRACT 4 DRIVEWAY.
 - COLD PLANE AND RESURFACE S.R. 113 AND LEADVALE ROAD TO LIMITS OF
CONSTRUCTION.
 - FINAL PRIVATE DRIVEWAY CONNECTIONS ARE TO BE CONSTRUCTED AND ACCESS
TO BE MAINTAINED TO PRIVATE DRIVES THROUGHOUT CONSTRUCTION.
 - REMOVE TEMPORARY TRAFFIC SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY CRASH CUSHION
	TEMPORARY BARRICADE (TYPE III)
	DETECTION LOOP
	CHANGEABLE MESSAGE SIGN

PAVEMENT MARKING LEGEND	
ABBREVIATION	DESCRIPTION
RDSYL	REMOVABLE DOUBLE SOLID YELLOW LINE
RSSWL	REMOVABLE SINGLE SOLID WHITE LINE

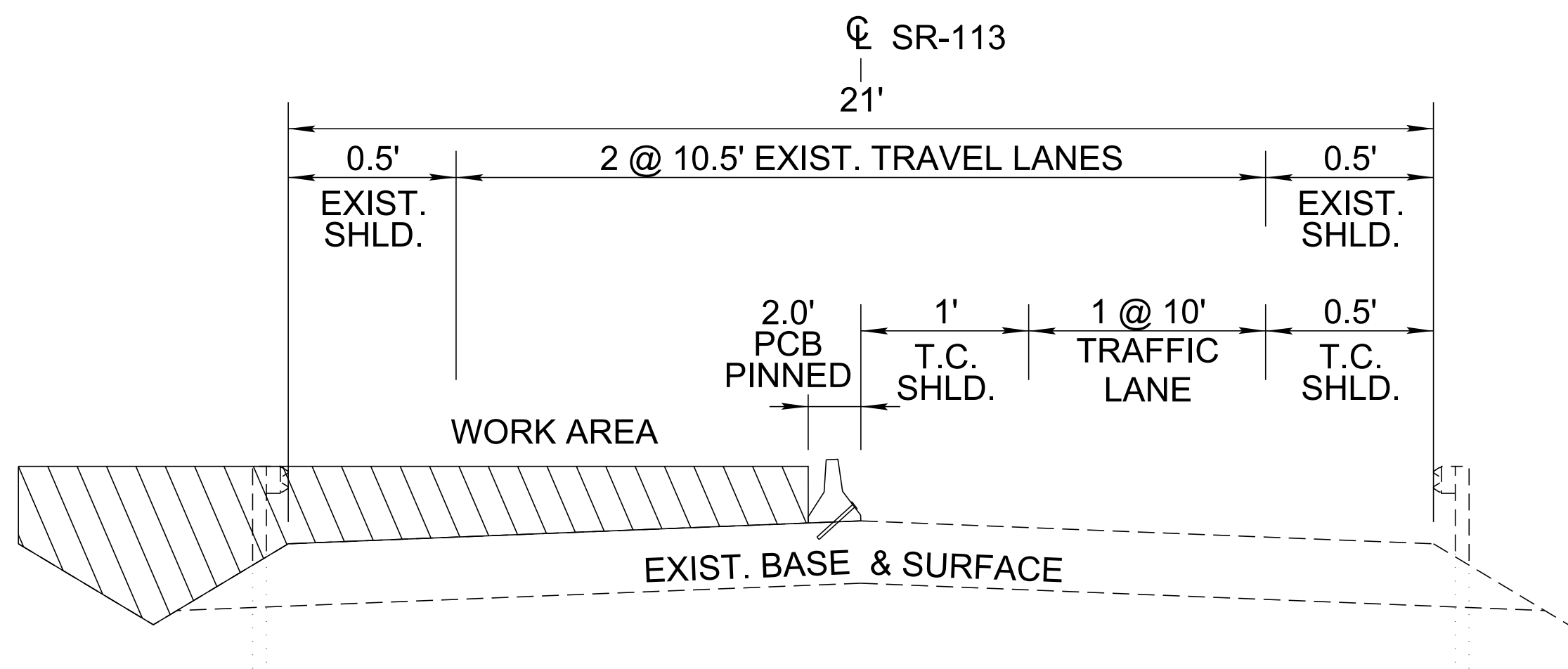


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
PHASING NOTES,
LEGEND
AND TABULATION

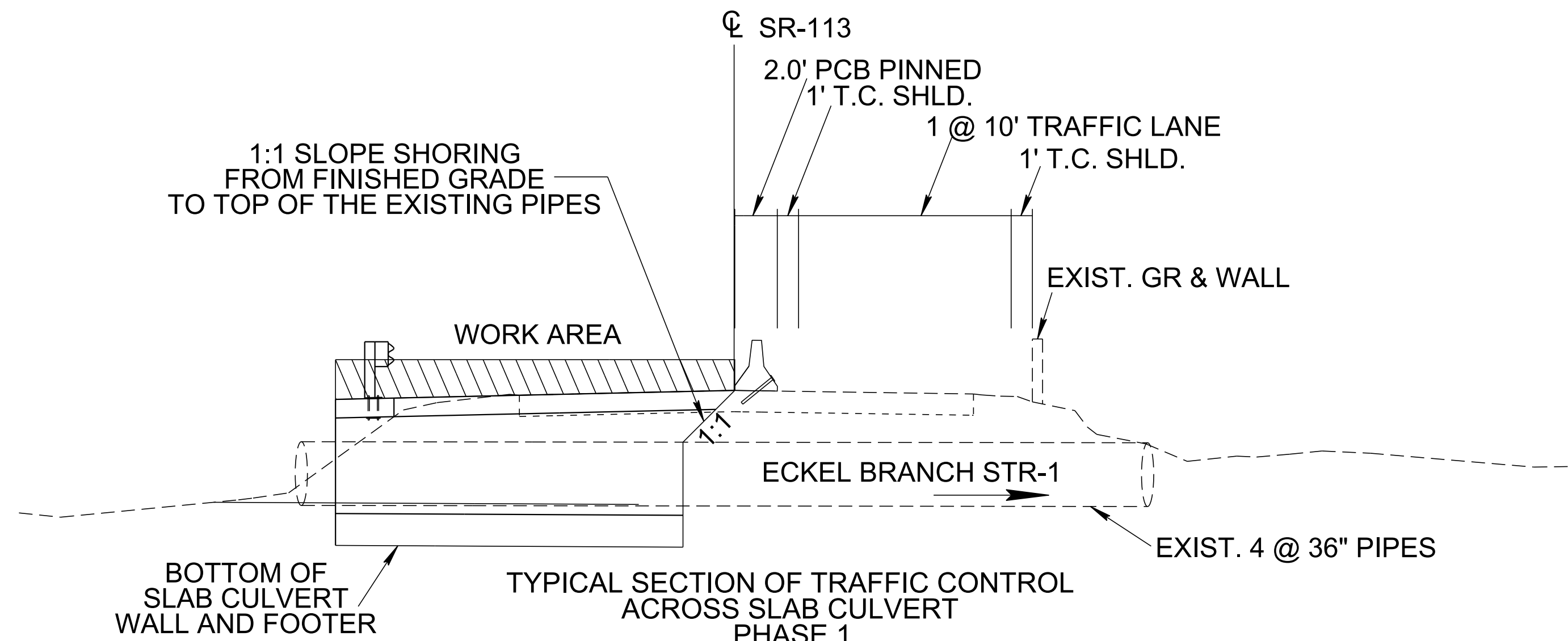
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	T3

REV. 03/14/25: ADDED TRAFFIC CONTROL TYPICAL SECTIONS ACROSS SLAB CULVERT PHASE 1 & 2. ADDED PINNED PCB TO PHASE 1 TYPICAL SECTION. ADDED PCB W/ STIFFENER & DEFLECTION AREA TO PHASE 2 TYPICAL SECTION. ADDED SHORING NOTE.

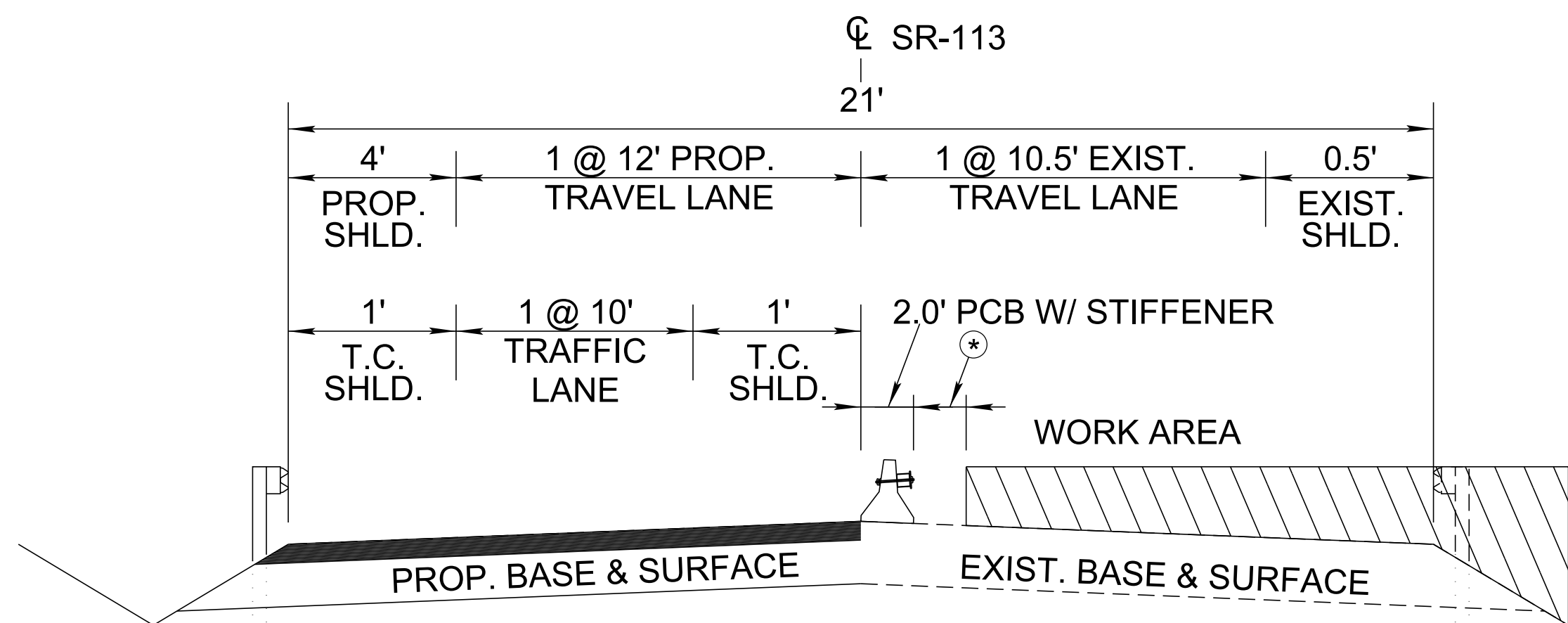


TYPICAL SECTION OF TRAFFIC CONTROL
PHASE 1

STA. 106+40.00 TO STA. 115+45.00

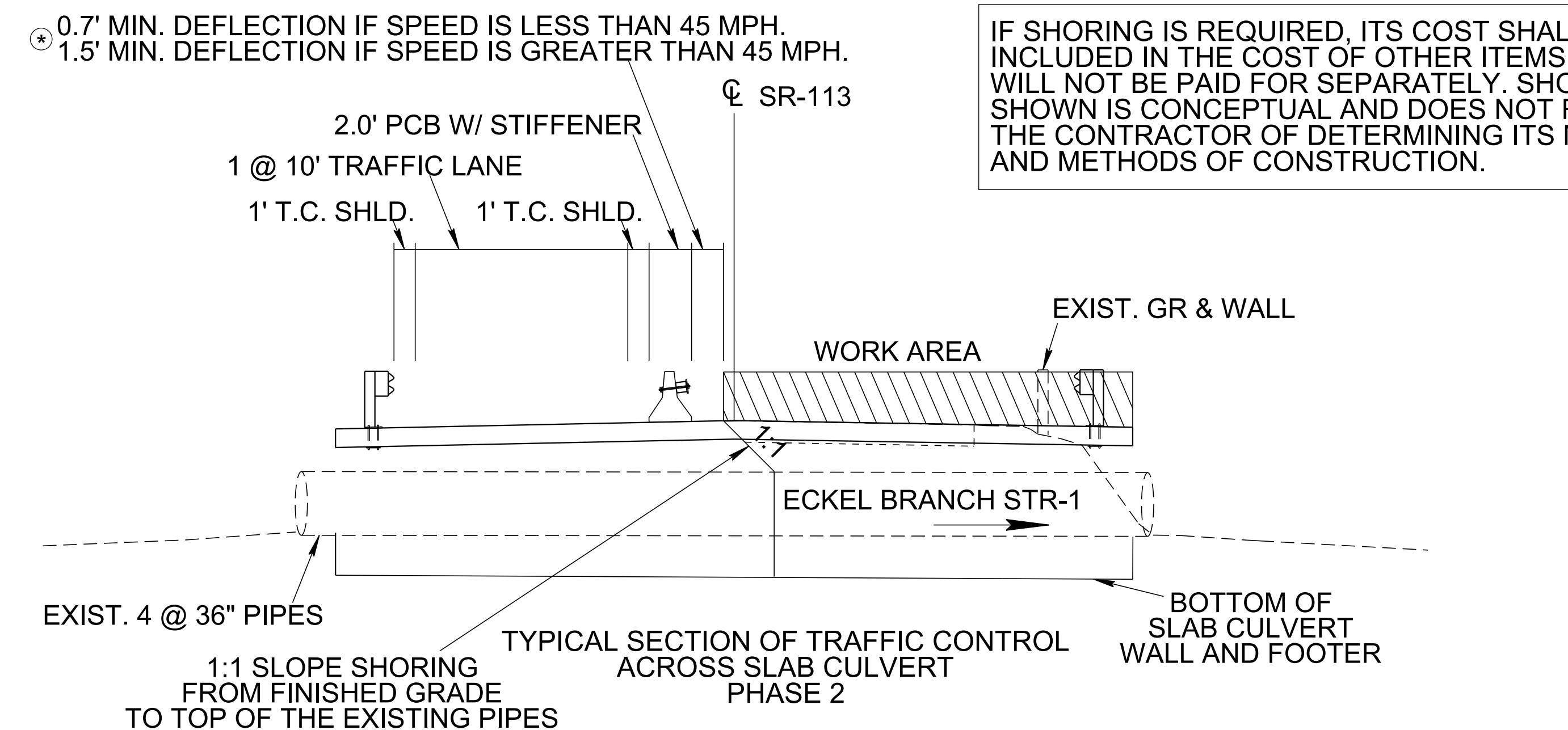


TYPICAL SECTION OF TRAFFIC CONTROL
ACROSS SLAB CULVERT
PHASE 1

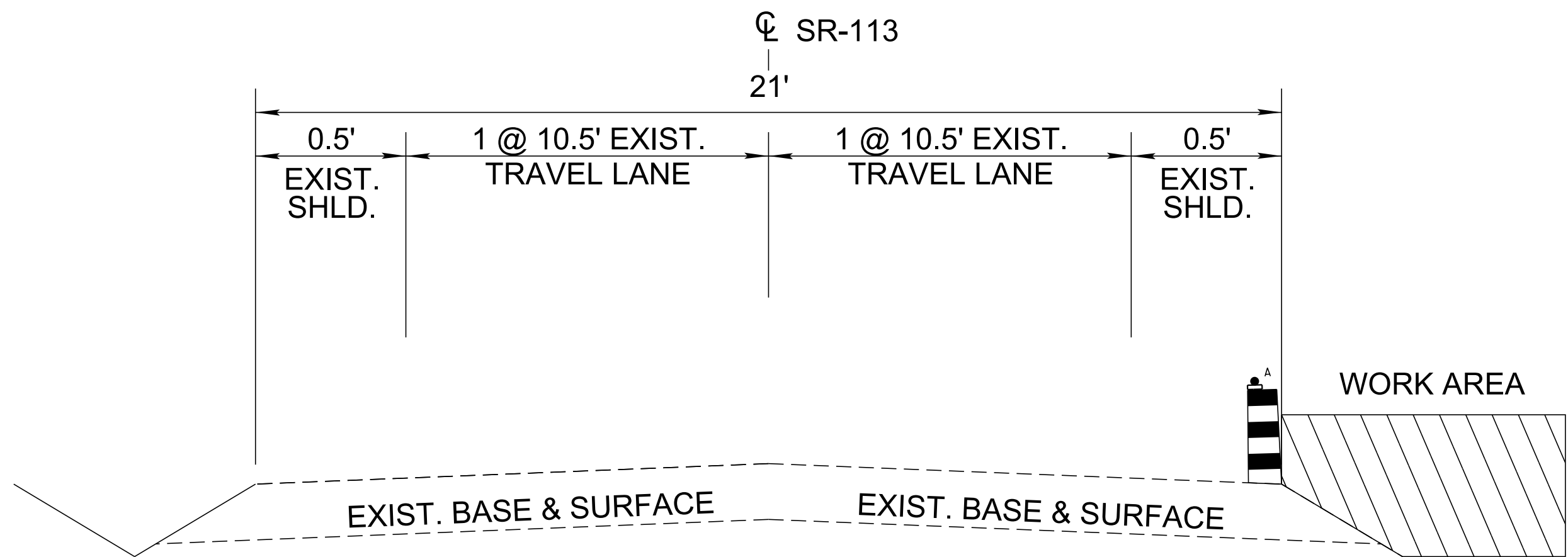


TYPICAL SECTION OF TRAFFIC CONTROL
PHASE 2

STA. 106+40.00 TO STA. 115+45.00



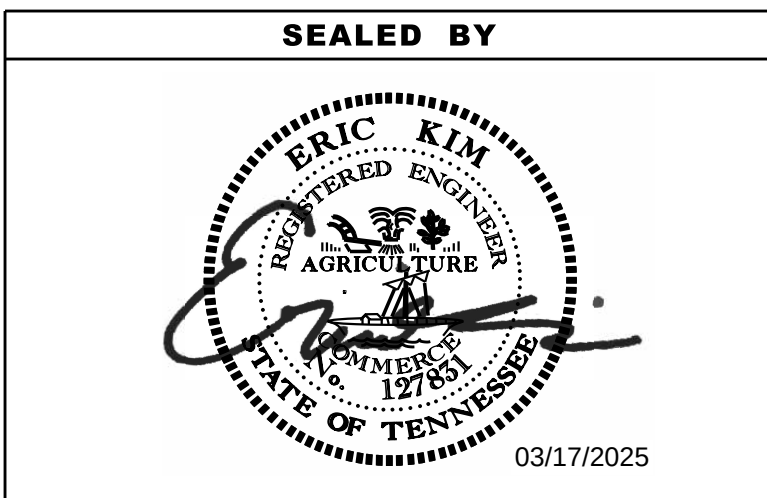
TYPICAL SECTION OF TRAFFIC CONTROL
ACROSS SLAB CULVERT
PHASE 2



TYPICAL SECTION OF TRAFFIC CONTROL
PHASE 3

STA. 109+55.00 TO 106+40.00
(SEE SHEET T6 FOR DETAILS)

IF SHORING IS REQUIRED, ITS COST SHALL BE INCLUDED IN THE COST OF OTHER ITEMS AND WILL NOT BE PAID FOR SEPARATELY. SHORING SHOWN IS CONCEPTUAL AND DOES NOT RELIEVE THE CONTRACTOR OF DETERMINING ITS MEANS AND METHODS OF CONSTRUCTION.



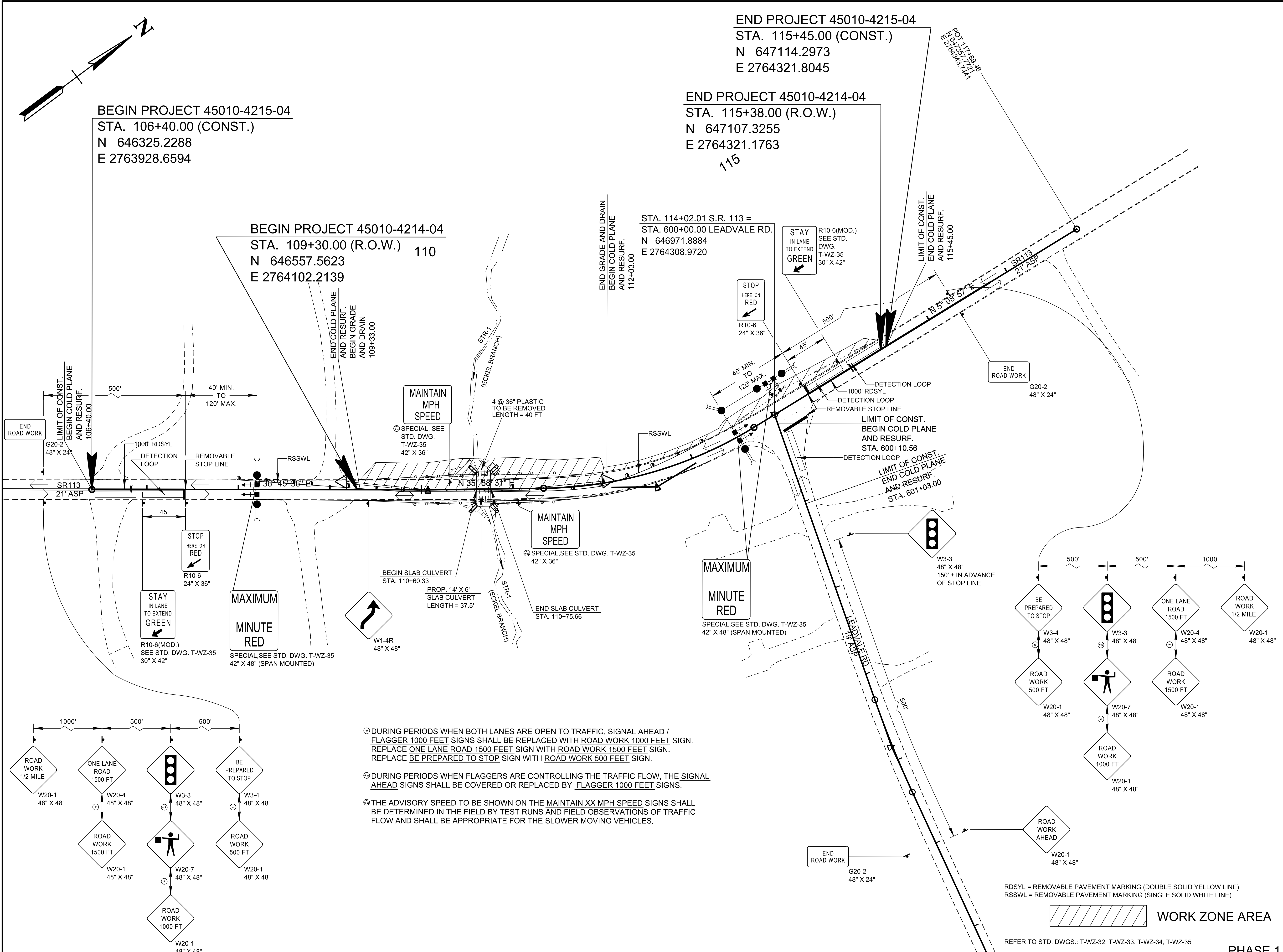
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
PLANS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	T3
PS&E	2025	45010-4215-04	T4

REV. 03/14/25: REVISED PHASE 1 TRAFFIC CONTROL.

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SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

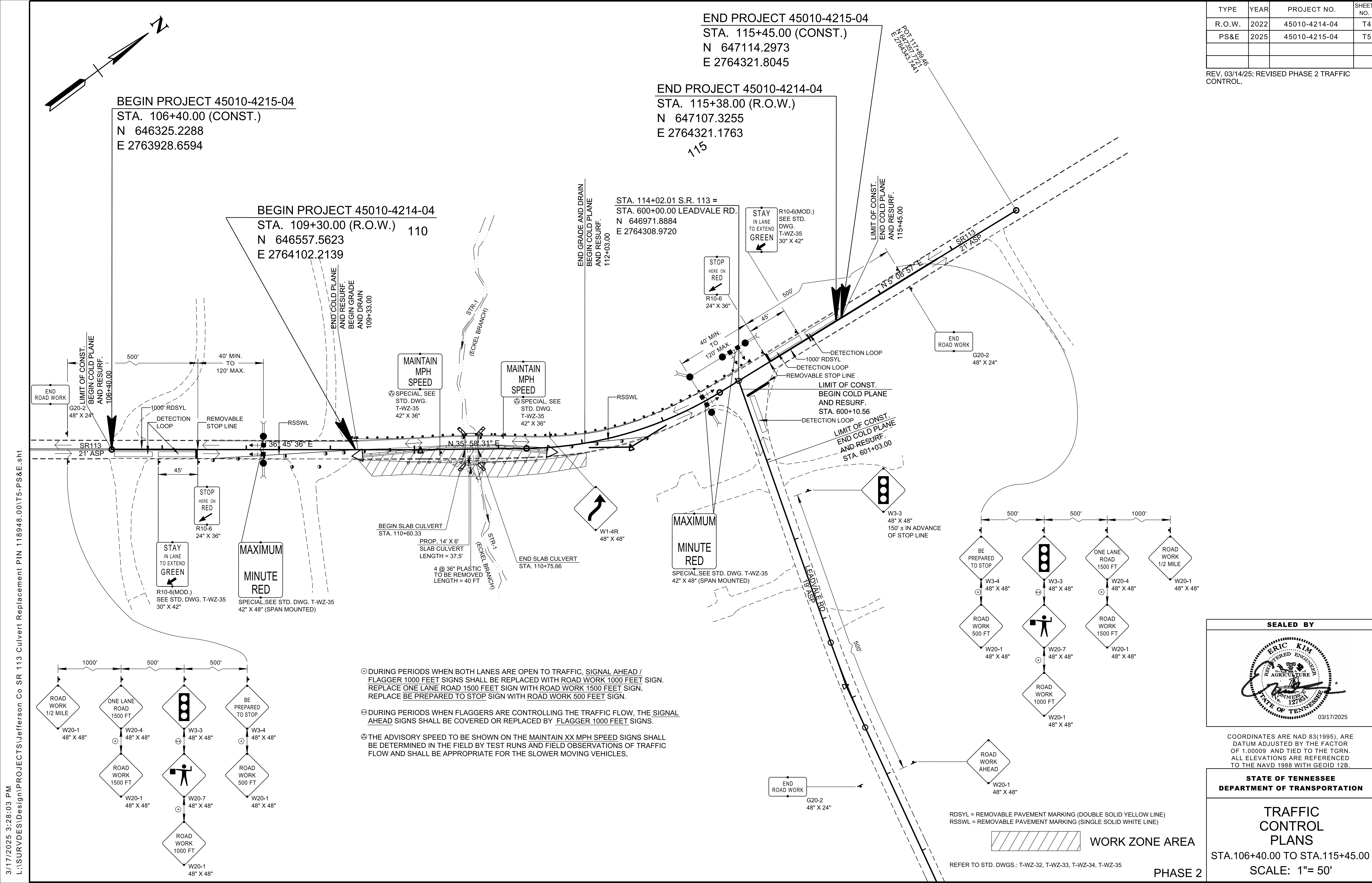
TRAFFIC CONTROL PLANS

STA. 106+40.00 TO STA. 115+45.00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	45010-4214-04	T4
PS&E	2025	45010-4215-04	T5

REV. 03/14/25: REVISED PHASE 2 TRAFFIC CONTROL.





THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Lori Fiorentino

Digitally signed by Lori Fiorentino
Date: 2025.02.13 09:38:21 -05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

TENNESSEE DEPARTMENT OF TRANSPORTATION
MATERIALS & TESTS DIVISION- GEOTECHNICAL ENGINEERING SECTION
7345 REGION LN.
KNOXVILLE, TN 37914
LORI ANN FIORENTINO, P.E. NO. 113743

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET.....	GEOTECH-SIGN2
GEOTECHNICAL BORING LAYOUT.....	G-3

YEAR	PROJECT NO.	SHEET NO.
2025	45010-4215-04	GEOTECH-SIGN2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
SHEET

SYTIMEC\$DGN\$SPEC\$

SYTIME\$\$\$\$\$
DGN\$PEC\$\$\$\$\$

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	G-1

REV. 02/11/25: ADDED GEOTECH-SIGN2 TO GEOTECHNICAL INDEX AND REVISED THE PROJECT NUMBER.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
INDEX

GEOTECHNICAL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	GEOTECH-SIGN1
SIGNATURE SHEET	GEOTECH-SIGN2
GEOTECHNICAL INDEX.....	G-1
GEOTECHNICAL NOTES AND ESTIMATED QUANTITIES.....	G-2
GEOTECHNICAL BORING LAYOUT.....	G-3
GEOTECHNICAL BORING PROFILE.....	G-4
GEOTECHNICAL TYPICAL SECTIONS.....	G-5

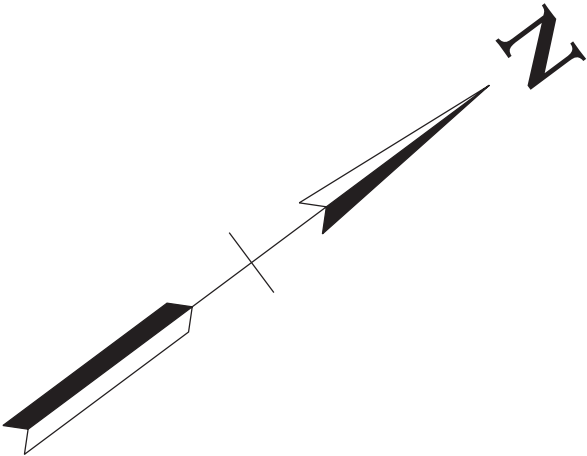
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	45010-4215-04	G-3

REV. 02/11/25: REVISED THE PROJECT NO.

BEGIN PROJECT 45010-4215-04
STA. 106+40.00 (CONST.)
N 646325.2288
E 2763928.6594

END PROJECT 45010-4215-04
STA. 115+45.00 (CONST.)
N 647114.2973
E 2764321.8045

STA. 114+02.01 S.R. 113 =
STA. 600+00.00 LEADVALE RD.
N 646971.8884
E 2764308.9720



LEGEND

B-1 AUGER REFUSAL DEPTH/ TOTAL DEPTH TO BOTTOM OF CORE SAMPLE

SEALED BY

02/13/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL
BORING
LAYOUT

\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$PEC\$\$\$\$