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RICHARD HOLT, P.E. NO. 104329

SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN4
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2, 2-1
GENERAL NOTES.....	2C
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NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN NUMBERING OF SHEETS.	

YEAR	PROJECT NO.	SHEET NO.
2026	STP/NH/HPP-28(32)	ROADWAY-SIGN4

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

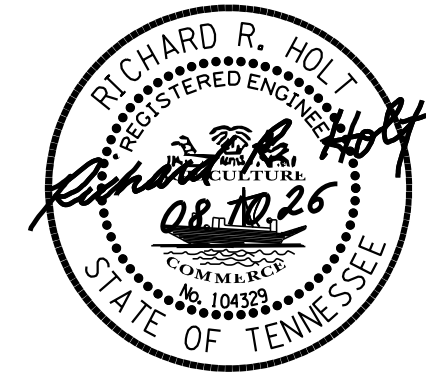
TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP/NH/HPP-28(32)	1A
PS&E	2026	STP/NH/HPP-28(32)	1A

PLAN-IN-HAND INDEX OF SHEETS

STANDARD ROADWAY DRAWINGS

SHEET NAME		SHEET NO.	DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION
SIGNATURE SHEETS.....		ROADWAY-SIGN1-4	10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS			D-PE-24A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)
TITLE SHEET		1				D-PE-24B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 24" PIPE, BILL OF STEEL AND PRECAST NOTES
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS.....		1A				RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
STANDARD ROADWAY DRAWINGS.....		1A1				RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
STANDARD STRUCTURE AND TRAFFIC DESIGN DRAWINGS.....		1A2	RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z	D-PE-30A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
PROJECT COMMITMENTS.....		1B	RD-L-1	02-20-20	STANDARD LEGEND	D-PE-30B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 30" PIPE, BILL OF STEEL AND PRECAST NOTES
ESTIMATED ROADWAY QUANTITIES.....		2, 2-1	RD-L-1A		STANDARD LEGEND	D-PE-42A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 42" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
TYPICAL SECTIONS AND PAVEMENT SCHEDULE		2B, 2B1, 2B4	RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS	D-PE-42B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 42" PIPE, BILL OF STEEL AND PRECAST NOTES
GENERAL NOTES.....		2C, 2C1	RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-PE-99	03-04-21	TYPE "U" CROSS DRAIN ENDWALL DETAILS, PIPE GRATE & SKEWED CONNECTION
SPECIAL NOTES.....		2D	RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
ENVIRONMENTAL NOTES.....		2E	RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
TABULATED QUANTITIES		2F, 2F1-2F4	10-101.00 STANDARDS ROADWAY DRAWINGS			D-PEW-3		PROTECTED ENDWALLS FOR OVAL PIPES DETAILS & QUANTITIES (EQU. PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
RIGHT-OF-WAY NOTES, UTILITY NOTES, AND UTILITY OWNERS		3						
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S).....		3A – 3G				RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
PRESENT LAYOUT(S).....		4 – 16				RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RIGHT-OF-WAY DETAILS		4A – 16A	RD01-TS-1A	06-28-19	DESIGN STANDARDS FOR LOW VOLUME LOCAL ROADS (ADT ≤ 400)	10-104.00 CATCH BASINS AND MANHOLES		
PROPOSED LAYOUT(S)		4B – 16B	RD01-TS-3A	10-15-12	DESIGN STANDARDS FOR 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIAN			
PROPOSED PROFILE(S)		4C – 16C	RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT			
SIDE ROADS PROFILE(S).....		17 – 23	RD01-S-11A	10-15-12	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION			
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S).....		24 – 34			INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES	D-CB-99R	01-28-22	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
DRAINAGE MAP(S).....		35 – 38	RD11-SD-1		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION	D-MH-2	02-20-20	STANDARD PRECAST NO. 3 MANHOLE
CULVERT SECTION(S)		39 – 46	RD11-SD-2		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS	D-MH-3	02-20-20	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE
EROSION PREVENTION AND SEDIMENT CONTROL PLANS.....		47, 48 – 50M	RD11-SD-3		UNDERDRAIN DETAILS	D-MH-4	02-20-20	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
SIGNING AND PAVEMENT MARKING PLAN(S).....		51 – 63	RD-UD-3	01-09-24	UNDERDRAIN LATERAL DETAILS	D-MH-5	02-20-20	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 MANHOLE
SIGN SCHEDULE SHEET(S).....		64 – 65	RD-UD-4	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES	D-MH-6	02-20-20	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
ROADWAY CROSS SECTIONS		66 – 173	RD-UD-6	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES	D-MH-7	02-20-20	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
SIDE ROAD CROSS SECTIONS.....		174 – 238	RD-UD-7	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES	D-RMH-1		PRECAST MANHOLE STRUCTURES (48" THRU 120")
TRAFFIC CONTROL PLANS		T1 – T10P	RD-UD-8	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES	D-SDS-1	02-20-20	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 SPRING DRAIN BOX
BRIDGE PLANS.....		B1	RD-UD-9	06-28-19		D-SDS-2A	02-20-20	STANDARD 4' X 4' SQUARE CONCRETE NO. 2A SPRING DRAIN BOX
GEOTECHNICAL PLANS.....		G1	10-102.00 AQUATIC ORGANISM PASSAGE (AOP) DESIGN, PIPE CULVERTS, AND ENDWALLS			D-RSB-1		PRECAST ROUND SPRING DRAIN BOX STRUCTURES (48" THRU 120")
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS		S-1				D-FLU-2		BRIDGE END DRAIN FLUME DETAILS
UTILITIES PLANS.....		U1–1				D-FLU-2A		BRIDGE END DRAIN FLUME DETAILS
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN THE NUMBERING OF SHEETS.						D-FLU-3	04-14-25	BRIDGE END DRAIN FLUME DETAILS
			D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION			
			D-PO-1	06-28-19	STANDARD OVAL AND REINFORCED CONCRETE ARCH PIPE CULVERT			
			D-PE-18A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE (FOR 3:1, 4:1 & 6:1 SLOPES)			
			D-PE-18B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 18" PIPE, BILL OF STEEL AND PRECAST NOTES			

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ROADWAY INDEX
AND
STANDARD

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**ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS**

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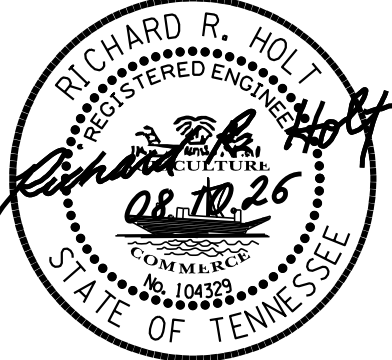
ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 18008-3230-14
	105-01 CONSTRUCTION STAKES, LINES AND GRADES	LS	0.6
	108-03 CPM SCHEDULE	LS	0.6
	201-01 CLEARING AND GRUBBING	LS	0.6
(1)	202-01 REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	0.6
	202-03 REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	100
	202-03.01 REMOVAL OF ASPHALT PAVEMENT	S.Y.	28717
(2) (3)	203-01 ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	639845
(2) (4) (5) 6	203-02.01 BORROW EXCAVATION (GRADED SOLID ROCK)	TON	49596
(32)	203-04 PLACING AND SPREADING TOPSOIL	C.Y.	42119
(2) (4) (5) (7)	203-05 UNDERCUTTING	C.Y.	14979
	203-06 WATER	M.G.	936
	203-08 CHANNEL EXCAVATION (UNCLASSIFIED)	C.Y.	1637
(8)	203-20.01 CHANNEL SUBSTRATE	C.Y.	213
(9) (10)	203-50 CONSTRUCTION OF HAUL ROAD	LS	1
	204-08 FOUNDATION FILL MATERIAL	C.Y.	233
(1) (2)	209-02.07 18" TEMPORARY SLOPE DRAIN	L.F.	600
(4) (11)	209-03.23 FILTER SOCK (24 INCH)	L.F.	180
(4) (11)	209-05 SEDIMENT REMOVAL	C.Y.	3020
(4) (11)	209-08.02 TEMPORARY SILT FENCE (WMTH BACKING)	L.F.	122355
(4) (11)	209-08.07 ROCK CHECK DAM	EACH	671
(4) (11)	209-08.08 ENHANCED ROCK CHECK DAM	EACH	107
(4) (11)	209-09.01 SANDBAGS	BAG	2000
(4) (11)	209-09.03 SEDIMENT FILTER BAG (15' X 15')	EACH	10
(4) (11)	209-20.03 POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	400
(4) (11)	209-65.03 TEMPORARY DIVERSION CHANNEL	L.F.	1690
(12)	303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	120692
	303-01.01 GRANULAR BACKFILL (ROADWAY)	TON	3227
(4) (11) (13)	303-10.01 MINERAL AGGREGATE (SIZE 57)	TON	2530
	307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	3997
	307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4136
	307-01.21 ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	6750
	307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	7156
	307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	4737
	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	65
(4)	407-20.05 SAW CUTTING ASPHALT PAVEMENT	L.F.	1150
	411-01.07 ACS MIX (PG64-22) GRADING E SHOULDER	TON	2373
	411-01.10 ACS MIX(PG64-22) GRADING D	TON	2362
	411-02.10 ACS MIX(PG70-22) GRADING D	TON	4604
	411-12.02 SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	6
	411-12.05 SCORING FOR CENTERLINE RUMBLE (4IN WIDTH-24IN SPACING)	L.M.	3
	604-01.01 CLASS A CONCRETE (ROADWAY)	C.Y.	638
	604-01.02 STEEL BAR REINFORCEMENT (ROADWAY)	LB.	145380
(14)	607-03.02 18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	160
(14)	607-05.02 24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	210
(14)	607-05.03 24" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	100
(14)	607-06.02 30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	161
(14)	607-07.02 36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	112
(14)	607-08.02 42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	180
(14)	607-39.02 18" PIPE CULVERT (SIDE DRAIN)	L.F.	998
(14)	607-39.03 24" PIPE CULVERT (SIDE DRAIN)	L.F.	306
(14)	607-39.04 30" PIPE CULVERT (SIDE DRAIN)	L.F.	169
(14)	607-39.05 36" PIPE CULVERT (SIDE DRAIN)	L.F.	119
(14)	607-57.01 REINFORCED CONCRETE PIPE ARCH (22" X 13")	L.F.	43
(14)	607-57.02 REINFORCED CONCRETE PIPE ARCH (29" X 18")	L.F.	16
(14)	607-57.09 REINFORCED CONCRETE PIPE ARCH (18" X 11")	L.F.	45
	611-01.04 MANHOLES, > 12' - 16' DEPTH	EACH	1
	611-02.02 SPRING DRAIN BOX, TYPE 2A	EACH	1
	611-07.31 18IN ENDWALL (SIDE DRAIN)	EACH	88
(23)	611-07.32 24IN ENDWALL (SIDE DRAIN)	EACH	38
	611-07.33 30IN ENDWALL (SIDE DRAIN)	EACH	12
	611-07.34 36IN ENDWALL (SIDE DRAIN)	EACH	4

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 18008-3230-14
	611-07.54 18IN ENDWALL (CROSS DRAIN) 3:1	EACH	4
	611-07.57 24IN ENDWALL (CROSS DRAIN) 3:1	EACH	5
	611-07.58 24IN ENDWALL (CROSS DRAIN) 4:1	EACH	4
	611-07.60 30IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.61 30IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-07.66 42IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.68 42IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
(4) (15)	621-03.02 18" TEMPORARY DRAINAGE PIPE	L.F.	72
(4) (16)	621-03.03 24" TEMPORARY DRAINAGE PIPE	L.F.	20
(4)	621-03.05 36" TEMPORARY DRAINAGE PIPE	L.F.	146
(1) (2)	621-03.06 42" TEMPORARY DRAINAGE PIPE	L.F.	460
	705-04.09 EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	16
	705-04.50 PORTABLE BARRIER RAIL DELINEATOR	EACH	1258
	705-06.01 WBEAM GR (TYPE 2) MASH TL3	L.F.	3125
	705-06.10 GR TERMINAL TRAILING END (TYPE 13) MASH TL3	EACH	8
	705-06.11 GR TERMINAL (IN-INLINE) MASH TL3	EACH	8
	705-06.20 TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	16
	705-06.25 THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	8
	706-06.03 RADIUS RAIL	L.F.	225
	706-10.26 ROUNDED END ELEMENT	EACH	8
	707-03.01 STOCK FENCE	L.F.	22570
	707-03.02 END, BRACED LINE, CORNER POST ASSEMBLY(STOCK FENCE)	EACH	223
	707-03.20 DRIVE GATE (STOCK FENCE) (DRIVEWAY ACCESS)	EACH	3
	707-04 WATER CROSSING	L.F.	360
	707-05 WATER GATE	S.F.	525
	707-06.05 REMOVAL OF FENCE	LS	1
(4)(11)	707-08.11 HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	18174
	708-02.01 MARKERS (CONCRETE R.O.W. POSTS)	EACH	141
(17)	709-01.01 RUBBLE STONE RIP-RAP	C.Y.	3
(4) (11) (18)	709-05.05 MACHINED RIP-RAP (CLASS A-3)	TON	531
(4) (11) (19)	709-05.06 MACHINED RIP-RAP (CLASS A-1)	TON	12225
(4) (20)	709-05.08 MACHINED RIP-RAP (CLASS B)	TON	5585
(4) (21)	709-05.09 MACHINED RIP-RAP (CLASS C)	TON	3680
	709-10.01 GABIONS (DITCH LINING)	C.Y.	1939
	710-02 AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	24792
	710-05 LATERAL UNDERDRAIN	L.F.	3910
	710-06.12 LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	6
	710-06.13 LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	17
	710-06.15 LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	101
	712-01 TRAFFIC CONTROL	LS	0.6
	712-02.02 INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	9930
(22)	712-02.60 TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	14
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	274
	712-04.50 BARRIER RAIL DELINEATOR	EACH	500
	712-05.01 WARNING LIGHTS (TYPE A)	EACH	64
	712-06 SIGNS (CONSTRUCTION)	S.F.	623
	712-07.03 TEMPORARY BARRICADES (TYPE III)	L.F.	360
	712-09.02 REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	12875
	713-01.01 CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	8
	713-01.02 STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	1569
	713-02.04 DELINEATOR (MILE MARKER) & STEEL POST	EACH	6
	713-02.21 SIGN POST DELINEATION ENHANCEMENT	L.F.	366
	713-11.02 PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	3601
	713-11.21 P POST SLIP BASE	EACH	45
	713-13.03 FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	510
	713-15 REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.6
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	4
	716-01.07 TEMPORARY RAISED PAVEMENT MARKER,YELLOW	EACH	170
	716-01.21 SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	380
	716-01.22 SNOWPLOWABLE RAISED PAVMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	18
(24)	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	120

SEE SHEET 2-1 FOR FOOTNOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP/NH/HPP-28(32)	2
PS&E	2026	STP/NH/HPP-28(32)	2

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

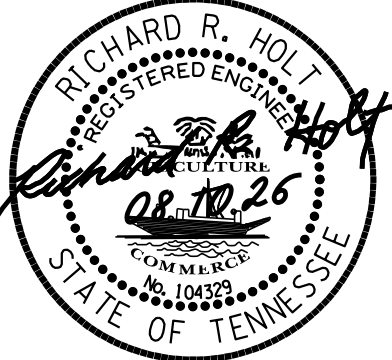
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ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 18008-3230-14
(24)	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	455
(24)	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	3
(24)	716-02.08 PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	720
(24)	716-02.12 PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	1
(25)	716-05.01 PAINTED PAVEMENT MARKING (4" LINE)	L.M.	15
	716-08.20 REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	1
	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	13
	717-01 MOBILIZATION	LS	0.6
(33)	740-07.04 GEOGRID REINFORCEMENT TYPE 2	S.Y.	6460
(4) (11) (26)	740-10.03 GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	16844
(5) (27)	740-10.04 GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	54642
	801-01 SEEDING (WTH MULCH)	UNIT	1574
(28)	801-01.02 CROWN VETCH MIXTURE (WTH MULCH)	UNIT	333
(4) (11) (29)	801-01.07 TEMPORARY SEEDING (WTH MULCH)	UNIT	685
(30)	801-01.36 SPECIAL WETLAND SEED MIXTURE	UNIT	16
(30)	801-01.38 NATVE SEED MX FINAL STABILZATN OF SLOPES	UNIT	311
	801-03 WATER (SEEDING & SODDING)	M.G.	800
	803-01 SODDING (NEW SOD)	S.Y.	50647
	805-01.01 TURF REINFORCEMENT MAT (CLASS I)	S.Y.	20222
(4) (11)	805-12.02 EROSION CONTROL BLANKET (TYPE II)	S.Y.	65598
(31)	806-02.03 PROJECT MOWMNG	CYCL	6

FOOTNOTES	
(1)	PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL. INCLUDES REMOVAL OF PIPES AND ANY ADDITIONAL STRUCTURES OR DEBRIS AS DIRECTED BY THE ENGINEER. SEE TABULATED QUANTITIES SHEET NO. 2F REMOVAL OF STRUCTURES, BUILDINGS AND OBSTRUCTIONS.
(2)	SEE GRADING SPECIAL NOTES ON SHEET 2F.
(3)	INCLUDES 906 CY FOR EROSION AND SEDIMENT CONTROL
(4)	TO BE USED AS DIRECTED BY THE ENGINEER
(5)	SEE GEOTECHNICAL PLAN SHEETS FOR MORE INFORMATION
(6)	38,167 TONS TO BE USED PER GEOTECHNICAL SHEET G2 11,429 TONS TO BE USED IN WETLAND FILLS
(7)	INCLUDES 9,994 CY FOR UNDERCUT AREAS PER GEOTECHNICAL SHEET G2 & 4,985 CY FOR PONDS AND WETLANDS.
(8)	QUANTITY FOR BACKFILL MATERIAL PROPOSED FOR EMBEDDED CULVERTS
(9)	ITEM NUMBER 203-50 SHALL INCLUDE GEOTEXTILE (TYPE IV), BORROW EXCAVATION (GRADED SOLID ROCK) OR MACHINED RIP-RAP (CLASS A-1, CLASS B, OR CLASS C), MINERAL AGGREGATE (SIZE 57), AND TEMPORARY DRAINAGE PIPE. THE MINERAL AGGREGATE INCLUDES AN ADDITIONAL TEN (10) PERCENT FOR MAINTENANCE.
(10)	PRICE INCLUDES REMOVAL OF HAUL ROADS
(11)	SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE AND REPLACEMENT
(12)	INCLUDES 5,912 TONS TO BE USED IN DRIVEWAYS
(13)	INCLUDES 885 TONS TO BE USED FOR TEMPORARY EROSION CONTROL INCLUDES 1645 TONS TO BE USED FOR BRIDGE ENDS BACKFILL
(14)	BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. SEE STANDARD DRAWING NO D-PB-1 AND D-PB-2 FOR ADDITIONAL DETAILS.
(15)	51 LF TO BE USED FOR TEMPORARY EROSION CONTROL 21 LF TO BE USED FOR TRAFFIC CONTROL
(16)	TO BE USED FOR TRAFFIC CONTROL

FOOTNOTES	
(17)	STANDARD DRAWING STD-1-7 (OR STD-1-11) IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS.
(18)	350 TONS TO BE USED FOR TEMPORARY EROSION CONTROL 181 TONS TO BE USED ON BRIDGE SLOPES AS FOLLOWS: NO BUSINESS CREEK BRIDGE: 82 TONS LICKFORK CREEK BRIDGE: 99 TONS
(19)	6,048 TONS TO BE USED FOR TEMPORARY EROSION CONTROL 407 TONS TO BE USED IN RELOCATED CHANNELS 5,681 TONS TO BE USED IN DITCHES 89 TONS TO BE USED IN DRAINAGE OUTLET PROTECTION
(20)	4,727 TONS TO BE USED IN RELOCATED CHANNELS 217 TONS TO BE USED IN DITCHES 254 TONS TO BE USED IN DRAINAGE OUTLET PROTECTION 387 TONS TO BE USED FOR TEMPORARY EROSION CONTROL
(21)	2,179 TONS TO BE USED IN DITCHES 40 TONS TO BE USED IN RELOCATED CHANNELS 253 TONS TO BE USED IN DRAINAGE OUTLET PROTECTION 1086 TONS TO BE USED FOR TEMPORARY EROSION CONTROL 122 TONS TO BE USED FOR TEMPORARY TRAFFIC CONTROL
(22)	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.
(23)	TO BE USED FOR TEMPORARY TRAFFIC CONTROL
(24)	THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC, PREFORMED PLASTIC SHALL BE PAID AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
(25)	11 MILES TO BE USED FOR TEMPORARY TRAFFIC CONTROL
(26)	14,891 SY TO BE USED FOR TEMPORARY EROSION CONTROL 1,953 SY TO BE USED IN DITCHES
(27)	38,786 SY TO BE USED ROADWAY STABILIZATION 14,956 SY TO BE USED IN POND AND WETLAND FILLS 900 SY TO BE USED FOR BRIDGE ENDS BACKFILL
(28)	ITEM NO. 801-01.02, CROWN VETCH MIXTURE (WITH MULCH) SHALL BE USED ON USED ON SLOPES 3H:1V OR STEEPER AND OTHER AREAS, AS DIRECTED BY THE ENGINEER. CROWN VETCH MIXTURE MAY NOT BE USED WITHIN AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND REPARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER. REFER TO ITEM NO. 801-01.38 FOR ALLOWABLE SPECIES WITHIN THESE AREAS.
(29)	THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING.
(30)	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 NATIVES 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
(31)	ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03. PROJECT MOWING
(32)	QUANTITY TO BE TAKEN FROM EXCESS TOPSOIL ON PROJECT NO. HPP/NH-28(37), PIN 100260.04
(33)	6460 SY TO BE USED FOR BRIDGE ENDS BACKFILL

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP/NH/HPP-28(32)	2-1
PS&E	2026	STP/NH/HPP-28(32)	2-1

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
ESTIMATED ROADWAY QUANTITIES

GENERAL NOTES

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (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 (FEMA) WITHOUT APPROVAL BY FEMA. 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) SEEDING AND SODDING 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 BE PAID AS ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED), IN ACCORDANCE WITH SECTION 203.10 OF THE STANDARD SPECIFICATIONS. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.
- (2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.
- (3) ITEM NO. 801-01.02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.
- (4) ITEM NO. 801-01.07, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

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

DRAINAGE

- (1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (2) EXCAVATION FOR PIPE CULVERTS, ALL OTHER CULVERTS, AND MINOR STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- (3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- (5) WHERE A CULVERT (PIPE OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT 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.

FENCING

- (1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN OTHERWISE 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 A TWO-WEEK 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 AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (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.

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING

- (1) 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.
- (2) 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.
- (3) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6IN LINE), L.M.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

- (4) THE PAVEMENT MARKING ON THE DETOURS FOR CENTERLINES AND EDGE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20 L.M.
- (5) BEFORE OPENING THE DETOUR TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. 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.

SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

- (6) REMOVE EXISTING SNOWPLOWABLE MARKERS PRIOR TO PAVING AND/OR COLD PLANING. REMOVE ALL ADHESIVES PRIOR TO PAVING. PATCH ANY HOLES OR DIVOTS RESULTING FROM THE REMOVAL OF A MARKER IN A MANNER WHICH ENSURES A UNIFORM PAVED SURFACE. PATCH WORK SHALL BE INCLUDED WITH COST OF OTHER ITEMS OF CONSTRUCTION.

PAVEMENT

PAVING

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

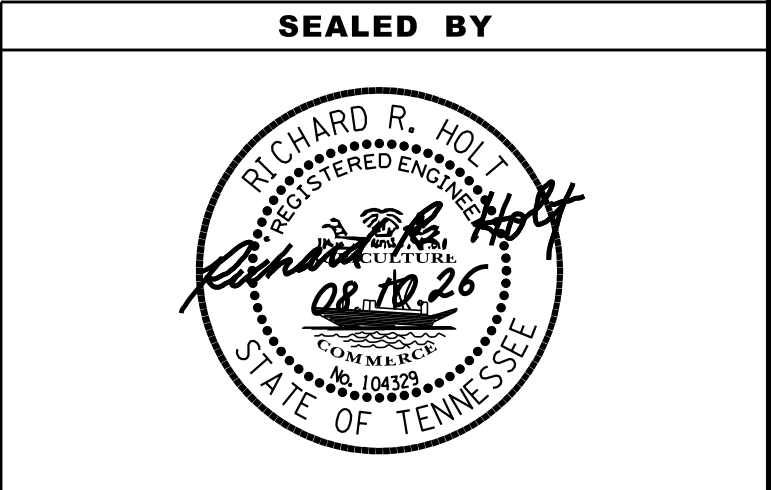
GRADED SOLID ROCK

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

SIGNING

- (1) FOR ALL PERMANENT PANEL SIGNS WITH A SILVER-WHITE, YELLOW, RED, GREEN, BROWN, OR BLUE BACKGROUND, PROVIDE REFLECTIVE SHEETING THAT MEETS OR EXCEEDS AASHTO M268, TYPE D.
- (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 TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. 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 OPERATIONS OFFICE.
- (5) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM NO. 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.
- (6) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP/NH/HPP-28(32)	2C
PS&E	2026	STP/NH/HPP-28(32)	2C



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL
NOTES

SIDE DRAIN TABULATION																		
STATION	LOCATION		DESCRIPTION	SURFACE WIDTH FT.	SKEW	RCP CLASS III OR CMP 16 GA OR PVC OR SRTRP OR HDPE OR PP (L.F.)								END TREATMENT				REMARKS
	LT.	RT.				FILL HEIGHT ≤ 10 FT.								INLET		OUTLET		
						18"x11"	22"x13"	29"x18"	18"	24"	30"	36"	TYPE	DRAWING NO.	TYPE	DRAWING NO.		
1283+56.00	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1285+54.63	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1285+59.99		X	SR-28	14	90°				16				U	D-PE-18A	U	D-PE-18A		
1290+25.08	X		SR-28	14	90°				23				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1290+56.21		X	SR-28	14	75°						29		U	D-PE-30A	U	D-PE-30A		
1291+35.23	X		SR-28	14	90°				28				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1292+98.63		X	SR-28	14	-												SEE BOX QUANTITIES	
1293+61.29	X		SR-28	14	90°					21			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1294+67.83		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1294+67.83	X		SR-28	14	90°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1295+27.69	X		SR-28	14	90°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1297+97.64	X		SR-28	14	90°					19			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
183+49.80		X	MAYFAIR	14	90°				28				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1299+63.65	X		SR-28	15	90°					24			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1301+70.11	X		SR-28	14	85°								U	D-PE-30A			PIPE LF INCLUDED IN 1302+05.72	
1302+05.72	X		SR-28	22	85°						67				U	D-PE-30A	PIPE LF INCLUDES 1301+70.11	
1303+62.75	X		SR-28	22	85°								U	D-PE-36A			PIPE LF INCLUDED IN 1304+06.55	
1304+06.55	X		SR-28	14	85°						88				U	D-PE-36A	PIPE LF INCLUDES 1303+62.75	
1305+47.64		X	SR-28	14	-												SEE BOX QUANTITIES	
1306+64.64	X		SR-28	14	82°				51				U	D-PE-18A	U	D-PE-18A		
1308+22.64		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1308+55.64	X		SR-28	14	-												NO SIDE DRAIN REQUIRED	
1311+35.31		X	SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1313+07.64	X		SR-28	20	90°				23				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1313+87.64		X	SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1315+00.00		X	SR-28	16	90°				19				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1316+51.53	X		SR-28	14	90°				21				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1318+46.32		X	SR-28	14	90°				25				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1318+63.16	X		SR-28	18	90°				23				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1319+59.27		X	SR-28	14	88°				24				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1321+67.03		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1322+93.75		X	SR-28	14	90°				33				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1324+18.27	X		SR-28	14	-								U	D-PE-18A			NO SIDE DRAIN REQUIRED	
1325+25.52		X	SR-28	14	88°												PIPE LF INCLUDED IN 1325+54.82	
1325+54.82	X		SR-28	14	88°				71						U	D-PE-18A	PIPE LF INCLUDES 1325+25.52	
1326+89.56	X		SR-28	14	84°				18				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1328+30.00		X	SR-28	24	90°				24				U	D-PE-18A	U	D-PE-18A		
232+20.00		X	RECTOR	14	90°	25							SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
243+78.45		X	GOSS	14	87°				19				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
301+53.06		X	OLD SR-28	14	87°				23				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
305+82.67	X		OLD SR-28	14	90°				20				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
309+00.00	X		OLD SR-28	14	90°		20						SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1333+01.56	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1343+21.64		X	SR-28	14	85°						18		U	D-PE-30A	U	D-PE-30A		
1343+21.64		X	SR-28	14	-												SEE BOX QUANTITIES	
262+25.00		X	PRYOR	14	90°		23						SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D ARCH PIPE	
1346+37.04		X	SR-28	14	89°					18			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1347+38.14		X	SR-28	14	87°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1348+43.68	X		SR-28	14	90°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1348+43.68	X		SR-28	14	57°						31		U	D-PE-36A	U	D-PE-36A		
1349+09.14		X	SR-28	14	90°			16					SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1349+91.14		X	SR-28	14	88°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1350+52.14	X		SR-28	14	88°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1351+64.14		X	SR-28	14	89°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1354+54.78	X		SR-28	20	90°					22			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1355+78.79		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
275+91.97	X		CLEARCREEK	14	90°				22				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1356+77.97	X		SR-28	14	86°				20				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1362+07.99		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1364+32.99		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1366+98.99		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1367+06.99	X		SR-28	16	89°				20				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1368+12.99		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1369+06.02		X	SR-28	14	89°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1371+64.45	X		SR-28	14	89°					18			U	D-PE-24A	U	D-PE-24A		
1375+61.39	X		SR-28	14	90°					31			U	D-PE-24A	U	D-PE-24A		
291+95.18		X	CONLEY	14	87°				28				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
291+75.16	X		CONLEY	14	86°				28				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1380+21.85		X	SR-28	14	81°				17				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
322+89.93		X	OLD SR-28 WEST	14	85°				35				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
320+87.78	X		OLD SR-28 WEST	14	71°					25			U	D-PE-24A	U	D-PE-24A		
333+64.02		X	OLD SR-28 EAST	14	-												SEE BOX QUANTITIES	
1405+10.69		X	SR-28	14	90°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1405+45.45	X		SR-28	14	90°						16		SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1405+45.45	X		SR-28	14	74°					23			U	D-PE-30A	U	D-PE-30A		
1409+59.60	X		SR-28	14	90°						16		SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1411+10.60	X		SR-28	40	90°				42				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1412+05.60	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1412+47.60		X	SR-28	14	90°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
SUBTOTALS						25	43	16	845	290	169	119						

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2026	STP/NH/HPP-28(32)	2F3
PS&E	2026	STP/NH/HPP-28(32)	2F3

SIDE DRAIN TABULATION (CONT.)																		
STATION	LOCATION		DESCRIPTION	SURFACE WIDTH FT.	SKEW	RCP CLASS III OR CMP 16 GA OR PVC OR SRTRP OR HDPE OR PP (L.F.)								END TREATMENT				REMARKS
						FILL HEIGHT ≤ 10 FT.								INLET		OUTLET		
	18"x11"	22"x13"				29"x18"	18"	24"	30"	36"	TYPE	DRAWING NO.	TYPE	DRAWING NO.				
1412+80.08	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1415+53.60	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1417+54.74	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1417+92.60		X	SR-28	14	90°					16			SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1422+61.31	X		SR-28	14	86°				20				U	D-PE-18A	U	D-PE-18A		
1422+61.31		X	SR-28	14	-												NO SIDE DRAIN REQUIRED	
1425+86.60	X		SR-28	14	79°				29				U	D-PE-18A	U	D-PE-18A		
311+36.98		X	HOLLOW	14	90°	20							SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
313+09.24		X	HOLLOW	14	90°				22				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
1429+53.60	X		SR-28	14	90°				16				SEW	D-SEW-1A	SEW	D-SEW-1A	SAFETY GRATES REQ'D	
TOTALS						45	43	16	980	306	169	119						
SEE SHEET 2F2 FOR SUBTOTALS																		

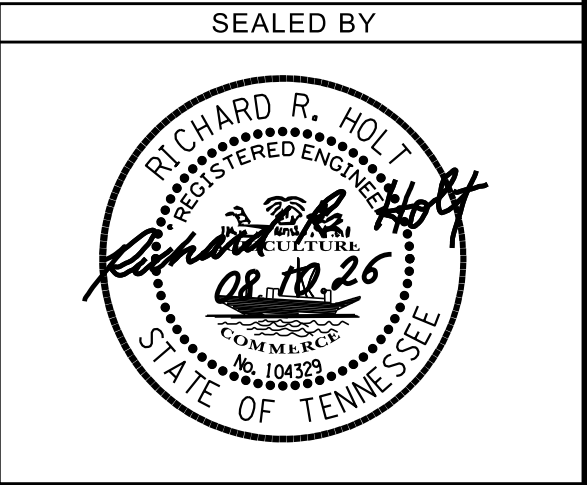
CROSS DRAIN ENDWALLS																
LOCATION	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	RIP-RAP CLASS "B"	RIP-RAP CLASS "C"	SAFETY ENDWALLS (ITEM NO. 611-07.54 THRU 611-07.71 SERIES)							
							709-05.08 (TON)	709-05.09 (TON)	18 IN. 3:1 07.54 (EACH)	24" IN. 3:1 07.57 (EACH)	24" IN. 4:1 07.58 (EACH)	30" IN. 3:1 07.60 (EACH)	30" IN. 4:1 07.61 (EACH)	42" IN. 3:1 07.66 (EACH)	42" IN. 6:1 07.68 (EACH)	
SR-28	1306+28.22	-59.84, 101.23	78°	1,3	U	D-PE-30A						1	1			
SR-28	1305+99.42	98.57	90°	42	U	D-PE-24A		228		1						
BYERS	213+00.00	13.72, -16.77	90°	15,16	U	D-PE-24A D-PE-99				2						
SR-28	1325+66.12	-81.93, 57.24	79°	4,5	U	D-PE-24A D-PE-99		25			2					
GOSS	241+17.00	18.73, -19.59	90°	17,18	U	D-PE-18A D-PE-99	182		2							
PRYOR	264+85.00	15.02, -14.15	86°	19,20	U	D-PE-42A D-PE-99								2		
CLEARCREEK	278+23.00	17.14, -16.41	90°	22,21	U	D-PE-18A D-PE-99			2							
CONLEY	290+84.00	18.16, -18.52	89°	27,28	U	D-PE-18A D-PE-99				2						
SR-28	1391+36.07	-48.88, 49.05	41°	9,10	U	D-PE-42A									2	
HOLLOW	310+90.06	17.36, -18.10	72°	26,25	U	D-PE-24A D-PE-99					2					
TOTALS							182	253	4	5	4	1	1	2	2	

TOPSOIL							
PROPOSED SLOPE AREA S.F.	EXISTING TOPSOIL (EXC.)	EXISTING TOPSOIL (EMB.)	EXISTING TOPSOIL (TOTAL) C.Y.	REQUIRED TOPSOIL C.Y.	PLACING TOPSOIL 203-04 C.Y.	FURNISHED TOPSOIL 203-07 C.Y.	EXCESS TOPSOIL C.Y.
2274426	21969	8445	30414	42119	30414	11705	0

MANHOLES									
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/ TOP ELEV.	INVERT ELEV.	DEPTH (FT.)	STANDARD DRAWING NO.	PAY ITEMS
6B	SR-28	1306+41.80	64	2	1847.91	1831.94	15.97	D-MH-2	TYPE 3 611-01.04 12' - 16'
TOTALS									1

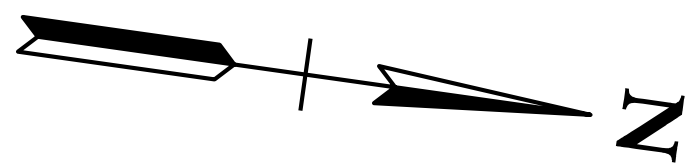
SPRING DRAINS					
STATION	LOCATION	STANDARD DRAWING NO.	OFFSET (FT.)	DEPTH (FT.)	TYPE 2A 611-02.02 EACH
1305+99.42	SR-28	D-SDS-1	0	3.33	1
TOTALS					1

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.	SHRINK = 10 % SWELL = 15 %	
MAINLINE		287838	155099	259055	EXC.	EMB.
SIDE ROADS		55626	3189	50064		
HAUL ROADS		18734	6468	16861		
STREAM RELOCATIONS		10803	0	9723		
EROSION PREVENTION & SEDIMENT CONTROL		906	0	816		
PAVEMENT REMOVALS		11837	3449	10654	604410	VS. -168205
TOPSOIL (EMB.)		8445			AVAILABLE	= 436205
TOPSOIL (EXC.)		21969				
TOPSOIL TOTALS (SEE TOPSOIL TABLE)					WASTE MATERIAL	= 479826
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
223687	0	639845	168205	416158	385744	604410



STATE OF TENNESSEE
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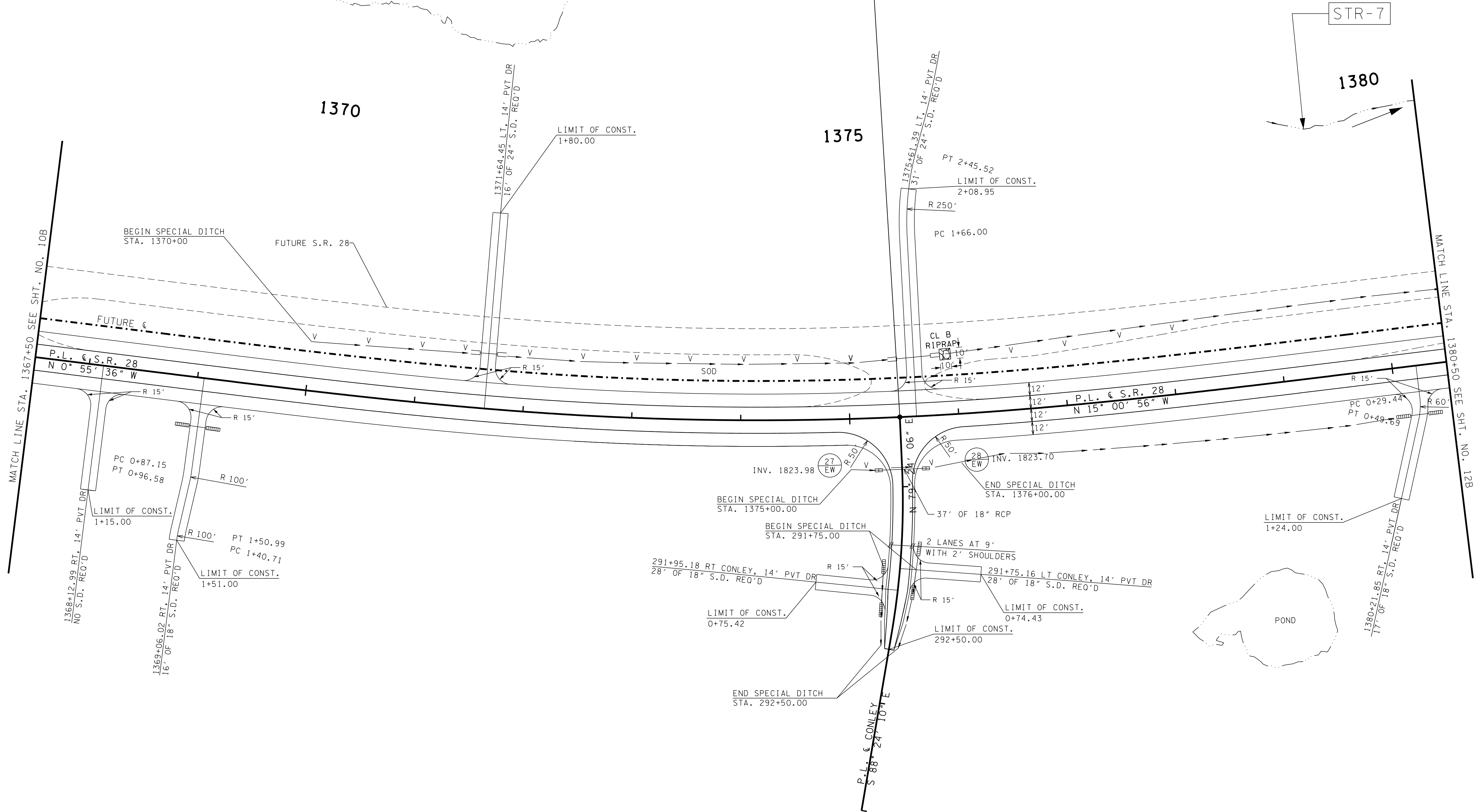
TABULATED
QUANTITIES



NOTE:
THE CONTRACTOR SHALL USE ANY MEASURE
NECESSARY TO ENSURE THAT NO CONSTRUCTION
ACTIVITY OR EQUIPMENT WILL ENTER ANY
PORTION OF STR-7; AND THAT STR-7 AND
SURROUNDING VEGETATION WILL NOT BE
DISTURBED AND ARE PROTECTED FROM SEDIMENT
AND OTHER POLLUTANTS EXCEPT AT PERMITTED
LOCATIONS.

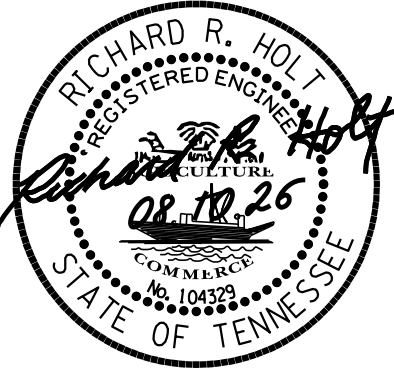
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2020	STP/NH/HPP-28(32)	11B

REV. 05-06-26; ADDED DRIVEWAY AT
STA. 1375+61.39.



SEE SHEET #18 FOR SIDE ROAD PROFILE

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COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00012 AND TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROPOSED
LAYOUT

STA. 1367+50 TO STA. 1380+50
SCALE: 1"= 50'

TRAFFIC CONTROL PHASING NOTES

PHASE 1

- 1) INSTALL PHASE 1 TRAFFIC CONTROL SIGNS AND PORTABLE BARRIER RAIL.
- 2) CONSTRUCT THE LEFT AND RIGHT TRANSITIONS.
- 3) CONSTRUCT DETOUR 1.
- 4) INSTALL TEMPORARY STRIPING ON THE TRANSITIONS AND DETOUR 1.

PHASE 2

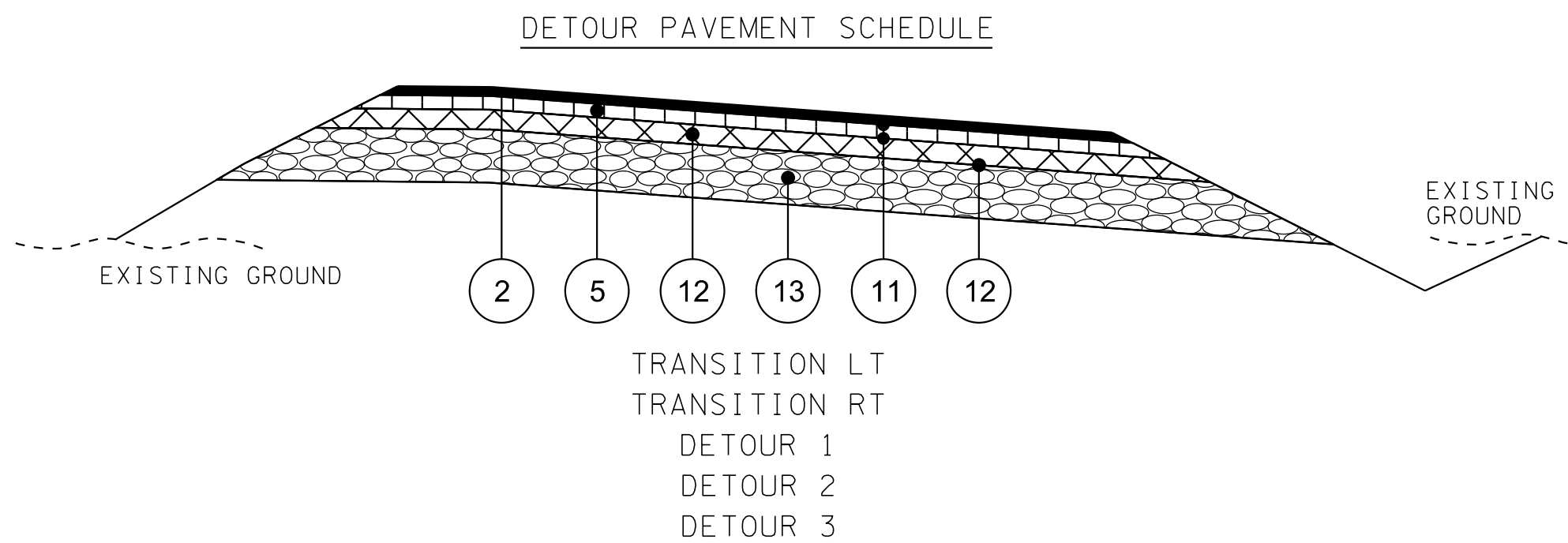
- 1) INSTALL PHASE 2 TRAFFIC CONTROL SIGNS, CHANNELIZING DRUMS, AND PORTABLE BARRIER RAIL.
- 2) MAINTAIN TRAFFIC ON THE TEMPORARY TRANSITIONS, DETOUR 1, AND THE EXISTING FACILITY.
- 3) CONSTRUCT THE PROPOSED FACILITY FROM THE BEGINNING OF PROJECT THROUGH STA. 1311+00.00.
- 4) CONSTRUCT THE PROPOSED FACILITY FROM STA. 1347+00.00 THROUGH THE END OF PROJECT.
- 5) CONSTRUCT DETOUR 2 AND DETOUR 3.
- 6) INSTALL TEMPORARY STRIPING ON DETOUR 2 AND DETOUR 3.

PHASE 3

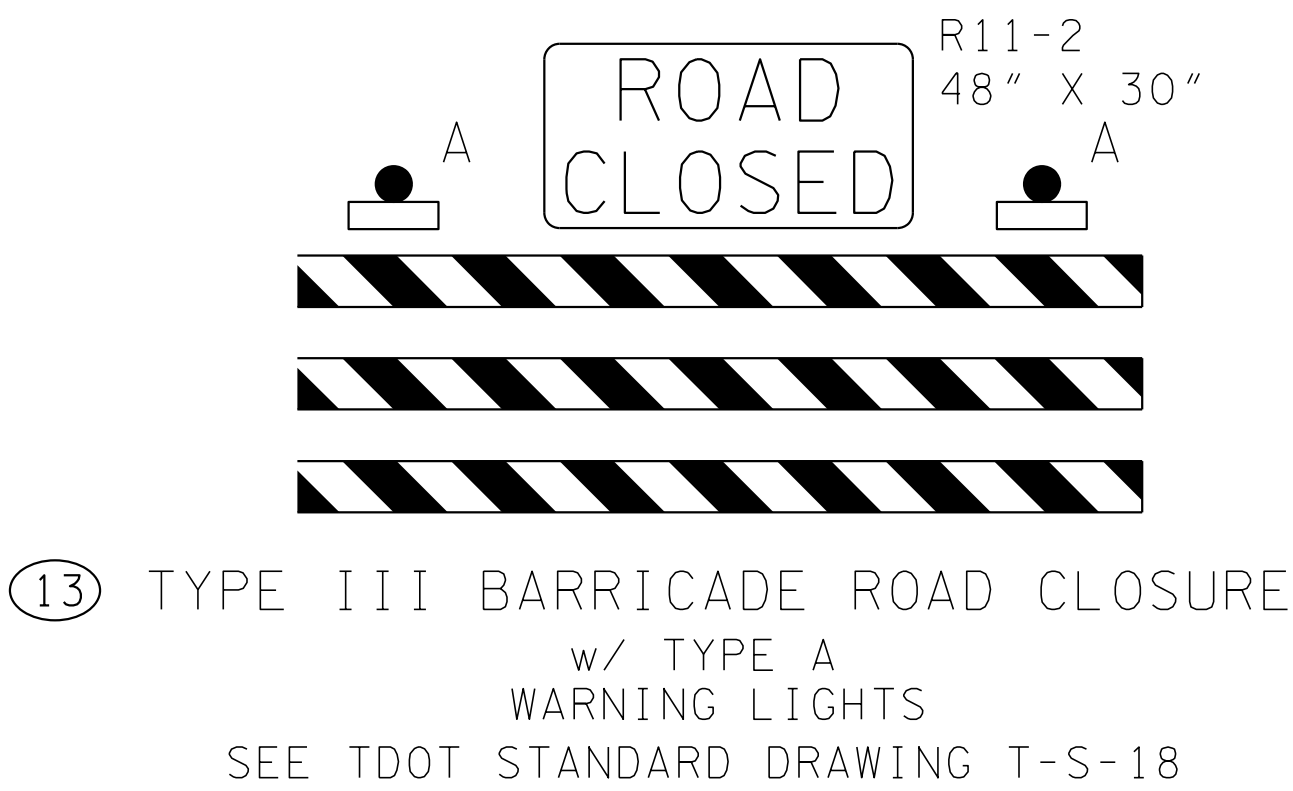
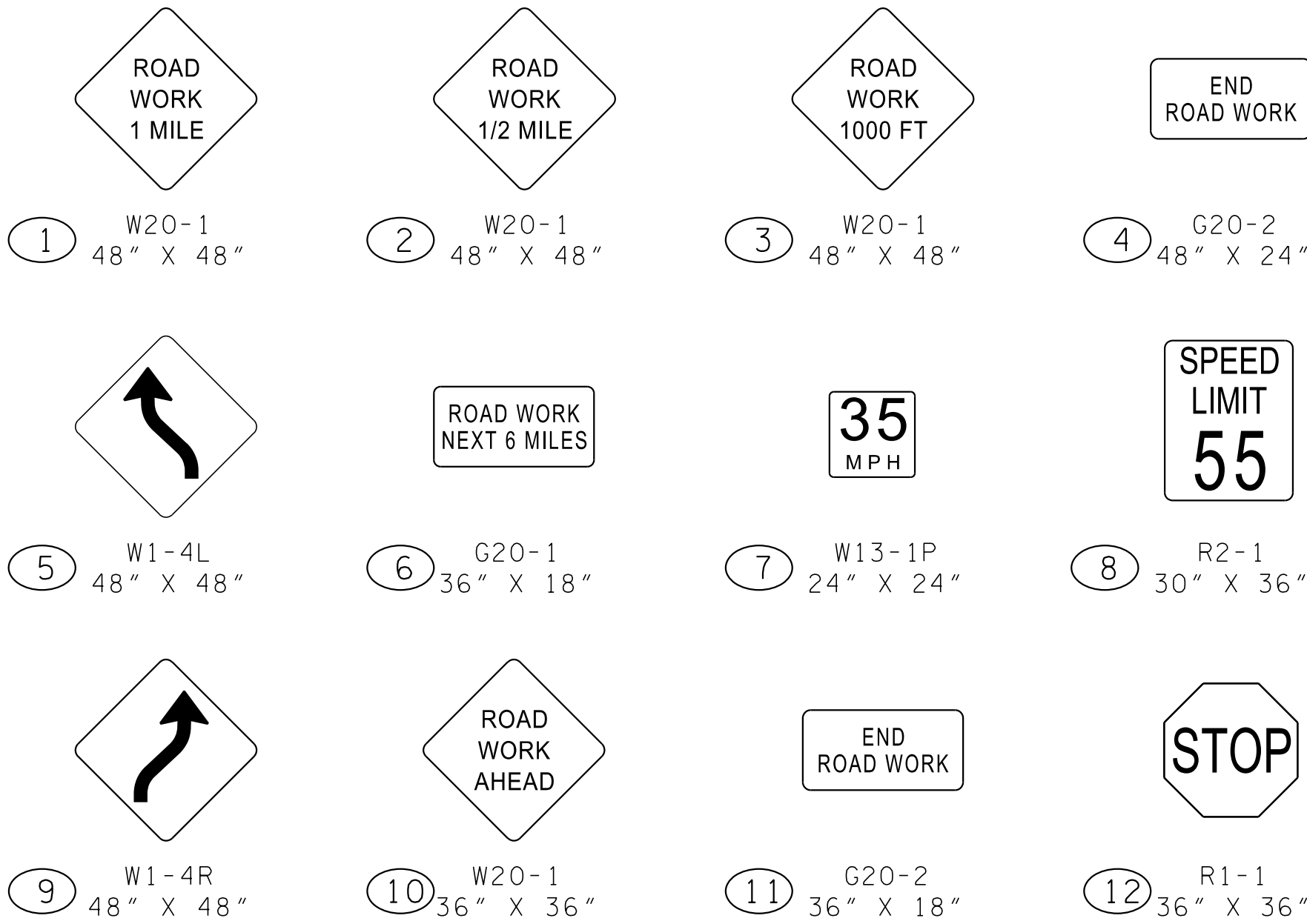
- 1) INSTALL PHASE 3 TRAFFIC CONTROL SIGNS, CHANNELIZING DRUMS, AND PORTABLE BARRIER RAIL.
- 2) MAINTAIN TRAFFIC ON THE NEWLY CONSTRUCTED FACILITY, DETOUR 2, AND DETOUR 3.
- 3) REMOVE THE LEFT AND RIGHT TRANSITIONS.
- 4) REMOVE DETOUR 1.
- 5) CONSTRUCT THE REMAINDER OF THE PROPOSED FACILITY FROM STA. 1311+00.00 TO STA. 1347+00.00.
- 6) REMOVE DETOUR 2 AND 3.

NOTES

- 1) ACCESS TO RESIDENCES AND BUSINESS MUST BE PROVIDED AT ALL TIMES.



2	ASPHALTIC CONCRETE SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.) 411-01.10 ACS MIX (PG64-22) GRADING "D"
5	BITUMINOUS BINDER COURSE @ 2.00" THICK (APPROX. 226 LB./S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"
11	TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) NOTE: SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD
12	BITUMINOUS BINDER COURSE @ 3.00" THICK (APPROX. 345 LB./S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"
13	MINERAL AGGREGATE 8" THICK (APPROX. 645 LB./S.Y.) 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"

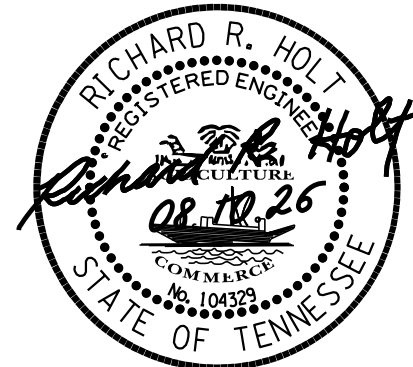


TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS)
	TEMPORARY ATTENUATOR
	TEMPORARY BARRICADE (TYPE III)
	RAISED PAVEMENT MARKER
	TEMPORARY CONNECTIONS FOR ALL DRIVEWAYS AND SIDEROADS SHALL BE MAINTAINED AT ALL TIMES WITH DRIVEABLE GRADES & SURFACES

TRAFFIC CONTROL QUANTITIES

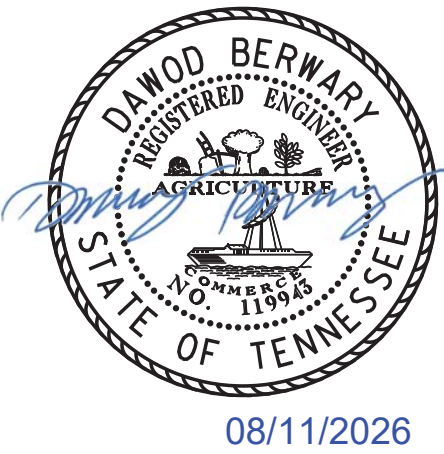
ITEM NO.	DESCRIPTION	M.U.T.C.D. NO.	UNITS	PHASE 1	PHASE 2	PHASE 3	MAX. OR TOTAL
621-03.02	18" TEMPORARY DRAINAGE PIPE	-----	L.F.		21		21
621-03.03	24" TEMPORARY DRAINAGE PIPE	-----	L.F.		20		20
712-01	TRAFFIC CONTROL	-----	L.S.	0.6	0.6	0.6	0.6
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	-----	L.F.	445	2500	9930	9930
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	-----	EA.	2	4	14	14
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	-----	EA.		274	140	274
712-04.50	PORTABLE BARRIER RAIL DELINEATOR	-----	EA.	25	130	500	500
712-05.01	WARNING LIGHTS (TYPE A)	-----	EA.	4	64	40	64
712-06	SIGNS (CONSTRUCTION)	G20-1	S.F.	9			9
		G20-2	S.F.	8	41	23	41
		R1-1	S.F.		6	6	6
		R2-1	S.F.		23	8	23
		R11-2	S.F.	20	320	240	320
		W13-1P	S.F.		16		16
		W1-4L	S.F.		48		48
		W1-4R	S.F.		32		32
		W20-1	S.F.	96	129	45	129
712-06	TOTAL SQUARE FOOTAGE SIGNS						623
712-07.03	TEMPORARY BARRICADES (TYPE III)	-----	L.F.	24	360	240	360
712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	-----	L.F.	445	2500	9930	12875
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	-----	EA.	4	4	4	4
716-01.07	TEMPORARY RAISED PAVEMENT MARKER, YELLOW	-----	EA.		45	125	170
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	-----	L.M		1	10	11

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TRAFFIC CONTROL
PHASING NOTES,
LEGEND AND
TABULATION



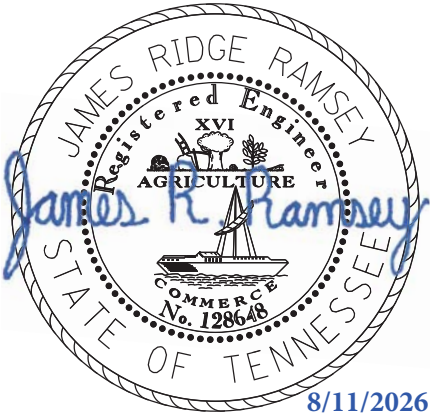
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:
Dawod Berwary 2026.08.11 15:30:51
-05'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION
JAMES K. POLK BUILDING, SUITE 1100
505 DEADERICK STREET
NASHVILLE, TN 37243
DAWOD BERWARY, P.E. NO. 119943

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.....	STRUCTURE-SIGN2
BRIDGE NO. 1: SR-28 OVER NO BUSINESS CREEK	
INDEX OF DRAWINGS.....	U-95-589
ABUTMENT NO. 1 DETAILS.....	U-95-602
ABUTMENT NO. 2 DETAILS.....	U-95-605



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:
JAMES RIDGE RAMSEY

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TENNESSEE DEPARTMENT OF TRANSPORTATION
JAMES K. POLK BUILDING, SUITE 1100
505 DEADERICK STREET
NASHVILLE, TN 37243
JAMES RIDGE RAMSEY, P.E. NO. 128648

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.
BRIDGE NO. 2: SR-28 OVER LICKFORK CREEK	
INDEX OF DRAWINGS.....	U-95-611
LAYOUT OF BRIDGE.....	U-95-612
GENERAL NOTES.....	U-95-613
ABUTMENT NO. 1 DETAILS.....	U-95-628
ABUTMENT NO. 2 DETAILS.....	U-95-631

YEAR	PROJECT NO.	SHEET NO.
2026	STP/NH/HPP-28(32)	STRUCTURE-SIGN2

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
SIGNATURE SHEET

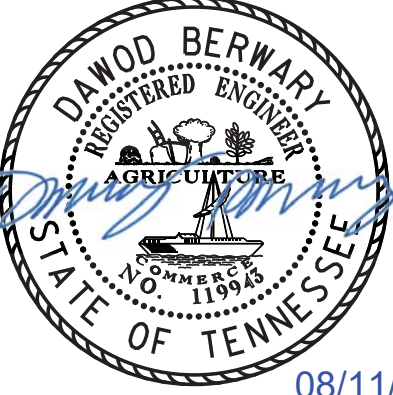
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PROJECT NO.		YEAR	SHEET NO.
STP/NH/HPP-28(32)		2026	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	8-10-26	JF	UPDATED REVISED DATES

<u>LIST OF STANDARD DRAWINGS</u>	<u>DWG.NO.</u>	<u>LAST REV.DATE</u>
BRIDGE END DRAIN FLUME DETAILS _____	D-FLU-3 _____	04-14-25
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET _____	STD-1-1SS _____	07-09-25
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS _____	STD-1-5 _____	6-05-23
BRIDGE END DRAIN DETAILS 2' X 8'-7" & 4' X 8'-7" W/ PAVEMENT AT BRIDGE ENDS _____	STD-1-6 _____	05-10-21
BRIDGE END DRAIN DETAILS 2' X 8'-7" & 4' X 8'-7" W/ PAVEMENT AT BRIDGE ENDS _____	STD-1-7 _____	05-10-21
BRIDGE END DRAIN DETAILS 2' X 8'-7" W/ PAVEMENT AT BRIDGE ENDS _____	STD-1-8 _____	05-10-21
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS _____	STD-4-1 _____	04-08-05
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA _____	STD-4-2 _____	04-08-05
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS _____	STD-4-3 _____	03-02-02
STANDARD PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS _____	STD-4-4 _____	06-10-96
STANDARD PILE DETAILS _____	STD-5-1 _____	
STANDARD SEISMIC DETAILS _____	STD-6-1 _____	12-08-23
TRI-STAR STATE EMBLEM _____	STD-8-6 _____	10-03-18
REINFORCEMENT BAR SUPPORT DETAILS FOR CONCRETE SLABS _____	STD-9-1 _____	10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS _____	STD-10-1 _____	06-05-23
MISC. ABUTMENT & PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS _____	STD-10-2 _____	06-05-23
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR BULB-TEE BEAMS _____	STD-14-1 _____	06-05-23

<u>1</u>	<u>LIST OF DRAWINGS</u>	<u>DWG. NO.</u>	<u>LAST REV.DATE</u>
	INDEX OF DRAWINGS _____	U-95-589 _____	08-10-26
	LAYOUT OF BRIDGE _____	U-95-590 _____	
	GENERAL NOTES _____	U-95-591 _____	
	ESTIMATED QUANTITIES _____	U-95-592 _____	
	FOUNDATION DATA _____	U-95-593 _____	
	FOUNDATION DATA _____	U-95-594 _____	
	SUPERSTRUCTURE _____	U-95-595 _____	
	SUPERSTRUCTURE DETAILS _____	U-95-596 _____	
	SUPERSTRUCTURE DETAILS _____	U-95-597 _____	
	SUPERSTRUCTURE DETAILS _____	U-95-598 _____	
	BRIDGE SCREED _____	U-95-599 _____	
	PRESTRESSED BULB-TEE BEAM DETAILS _____	U-95-600 _____	
	ABUTMENT NO. 1 _____	U-95-601 _____	
	ABUTMENT NO. 1 DETAILS _____	U-95-602 _____	08-10-26
	ABUTMENT NO. 1 DETAILS _____	U-95-603 _____	
	ABUTMENT NO. 2 _____	U-95-604 _____	
	ABUTMENT NO. 2 DETAILS _____	U-95-605 _____	08-10-26
	ABUTMENT NO. 2 DETAILS _____	U-95-606 _____	
	PIER NO. 1 _____	U-95-607 _____	
	PIER NO. 1 DETAILS _____	U-95-608 _____	
	FINAL FOUNDATION DATA _____	U-95-609 _____	
	BILL OF STEEL _____	U-95-610 _____	

SEALED BY

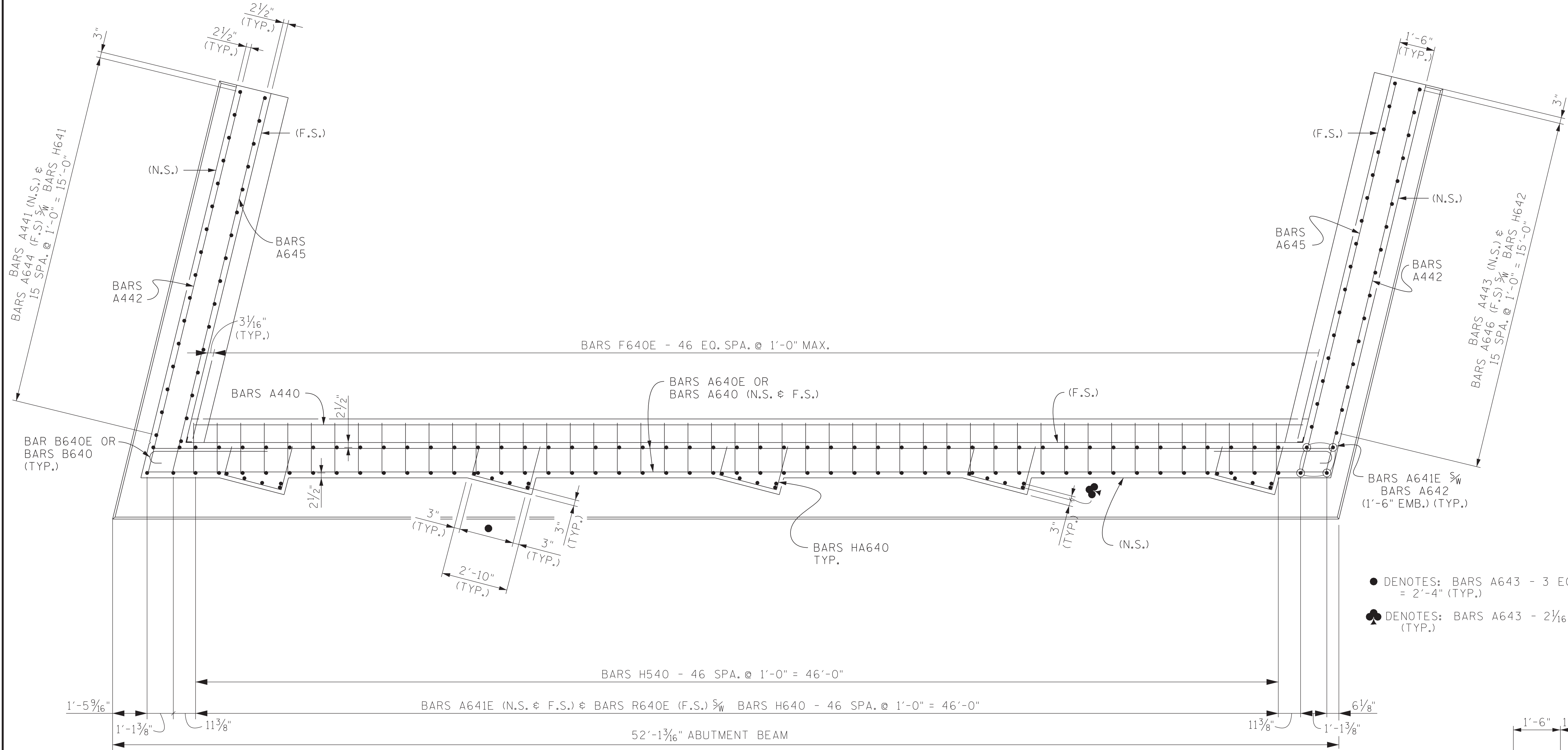


08/11/2026

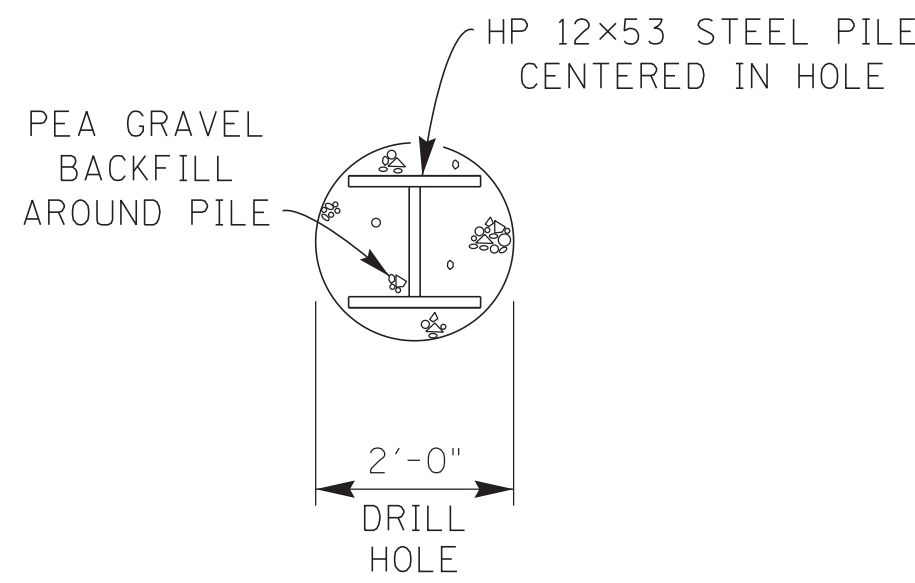
BRIDGE NO. 1
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
INDEX OF DRAWINGS
STATE ROUTE 28
OVER
NO BUSINESS CREEK
BRIDGE ID. NO. 18SR0280020
STATION 1339+01.10
CUMBERLAND COUNTY

PIN NO.: 100260.03
DESIGN BY: J. FALCE DATE: 6-25
DRAWN BY: JERRY W. SIMPSON DATE: 7-25
SUPERVISED BY: S. STEELE/D. BERWARY DATE: 6-25
CHECKED BY: R. LEFEVRE DATE: 3-26

PROJECT NO.		YEAR	SHEET NO.
STP/NH/HPP-28(32)		2026	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	8-10-26	JF	UPDATED PRE-DRILLED PILE DETAIL NOTES



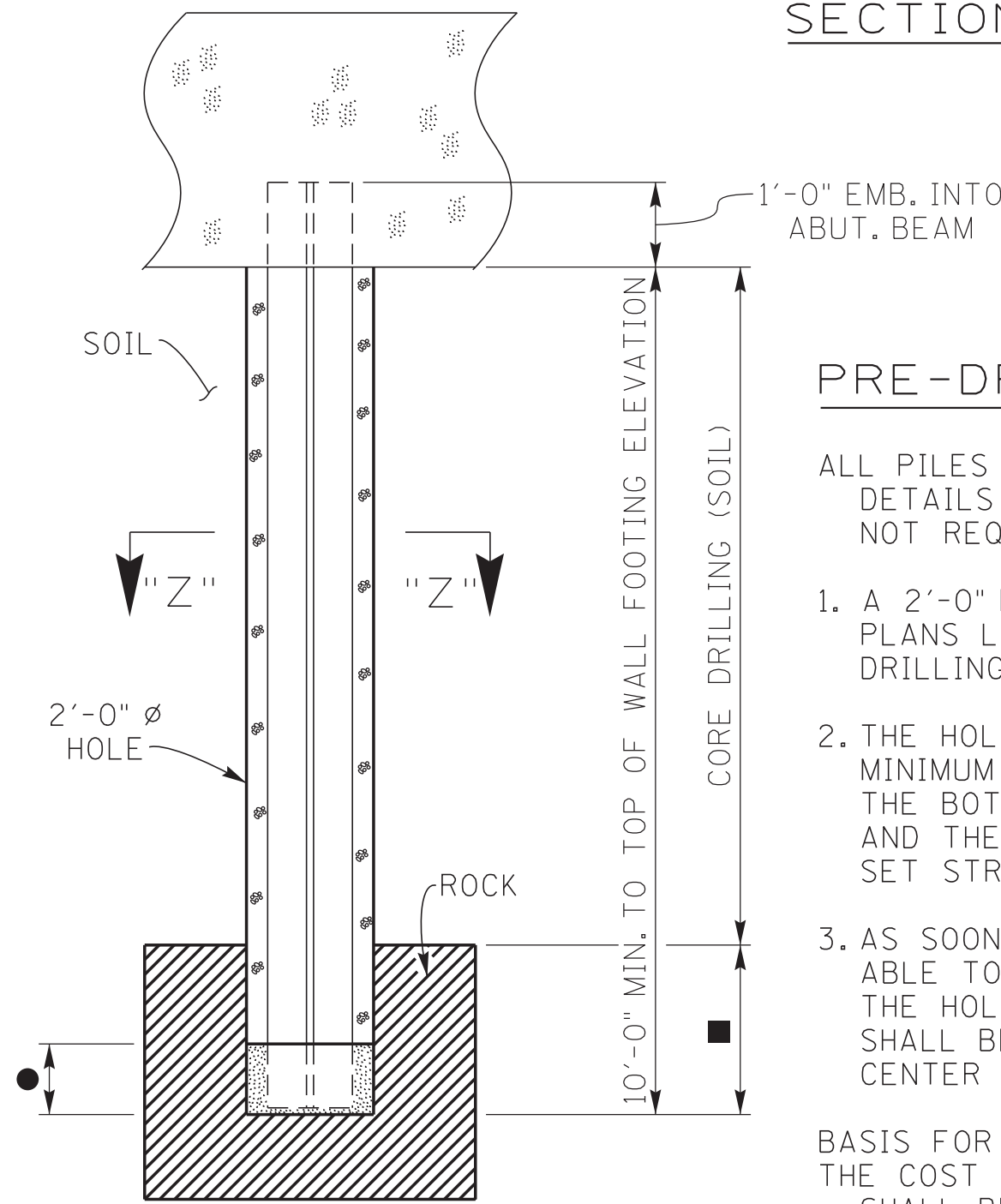
- DENOTES: 1'-0" CONCRETE EMBEDMENT
○ BOTTOM OF HOLE TO SECURE BOTTOM OF PILE IN CENTER OF HOLE.
- DENOTES: CORE DRILLING (ROCK) AS NEEDED TO OBTAIN DEPTH NEEDED.



SECTION "Z-Z"

PIN NO.: 100260.03
DESIGN BY: J. FALCE DATE: 6-25
DRAWN BY: B. ERVIN DATE: 7-25
SUPERVISED BY: S. STEELE/D. BERWARY DATE: 6-25
CHECKED BY: R. LEFEVRE DATE: 3-26

SECTION "C"- "C"

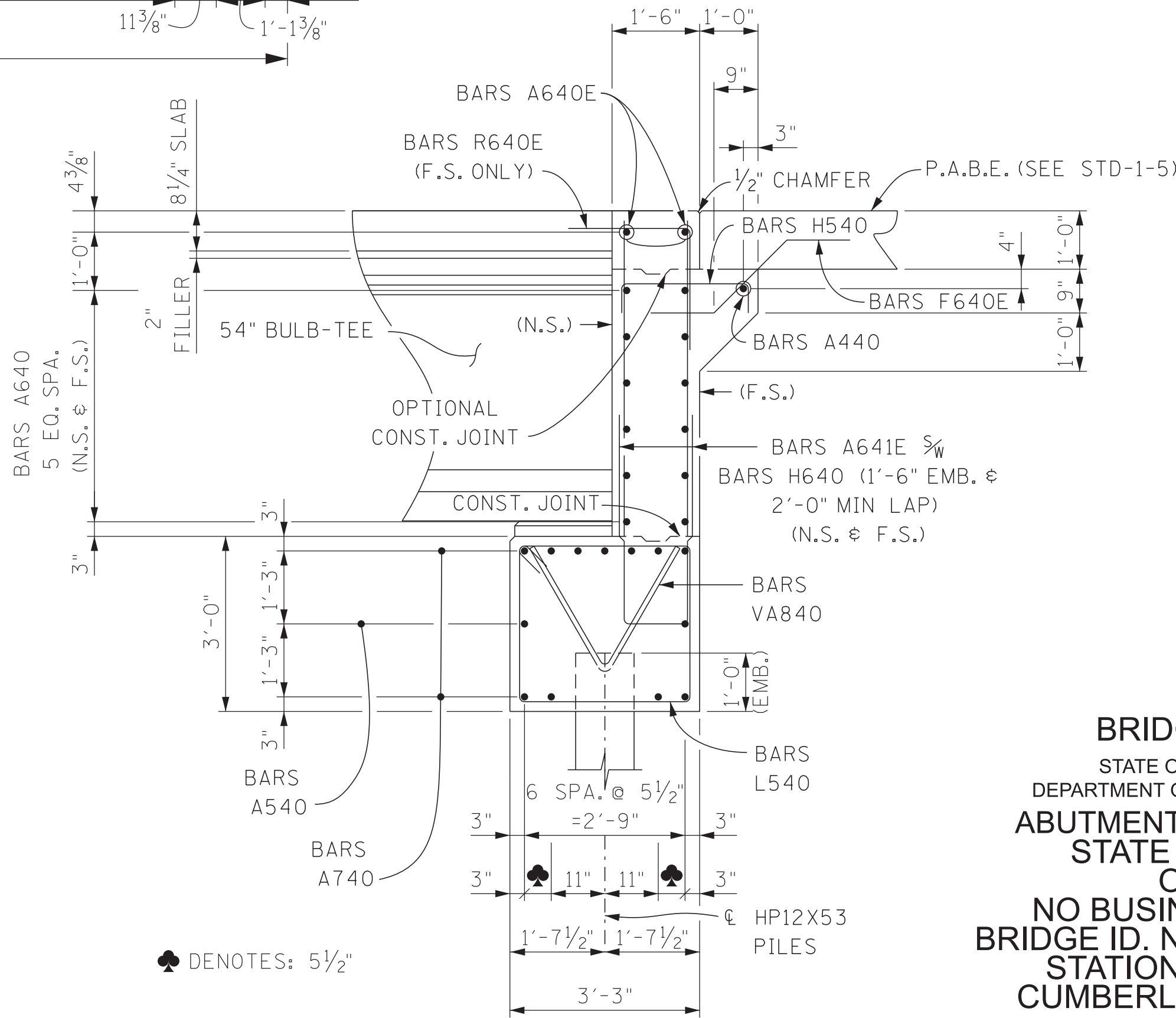


PRE-DRILLED PILE DETAILS 1

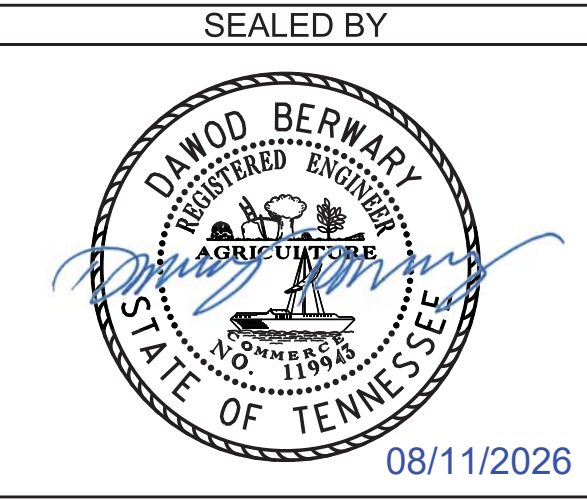
ALL PILES AT ABUTMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET. STEEL PILE TIPS (ITEM NO. 606-02.06) ARE NOT REQUIRED.

- A 2'-0" DIAMETER HOLE (10'-0" MINIMUM IN LENGTH) SHALL BE DRILLED IN THE PLANS LOCATION FOR THE PILE. THE AMOUNT OF CORE DRILLING (SOIL) AND CORE DRILLING (ROCK) WILL VARY DUE TO LOCATION OF ROCK LINE.
- THE HOLE SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, MINIMUM OF 12 INCHES OF HIGH EARLY STRENGTH CONCRETE PLACED IN THE BOTTOM OF THE HOLE, THE PILE INSERTED AND CENTERED IN THE HOLE, AND THE PILE SUPPORTED UNTIL THE CONCRETE REACHES ITS INITIAL SET STRENGTH.
- AS SOON AS THE CONCRETE HAS OBTAINED ITS INITIAL SET AND IT IS ABLE TO STABILIZE THE PILE TIP LOCATION IN THE BOTTOM OF THE HOLE, THE HOLE SHALL BE BACKFILLED WITH PEA GRAVEL. THE TOP OF THE PILE SHALL BE BRACED IN A MANNER SO THAT ITS VERTICAL POSITION IN THE CENTER OF THE HOLE IS MAINTAINED.

BASIS FOR PAYMENT:
THE COST OF ALL MATERIAL AND LABOR FOR DRILLING THE 2'-0" HOLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NOS. 204-14 AND 204-15. THE COST OF ALL MATERIAL AND LABOR FOR PILE END ENCASEMENT, BACKFILLING WITH PEA GRAVEL, BRACING OF THE PILES, AND ANY OTHER INCIDENTALS REQUIRED FOR FULL INSTALLATION OF THE PILES SHALL BE INCLUDED IN ITEM NO. 606-03.03

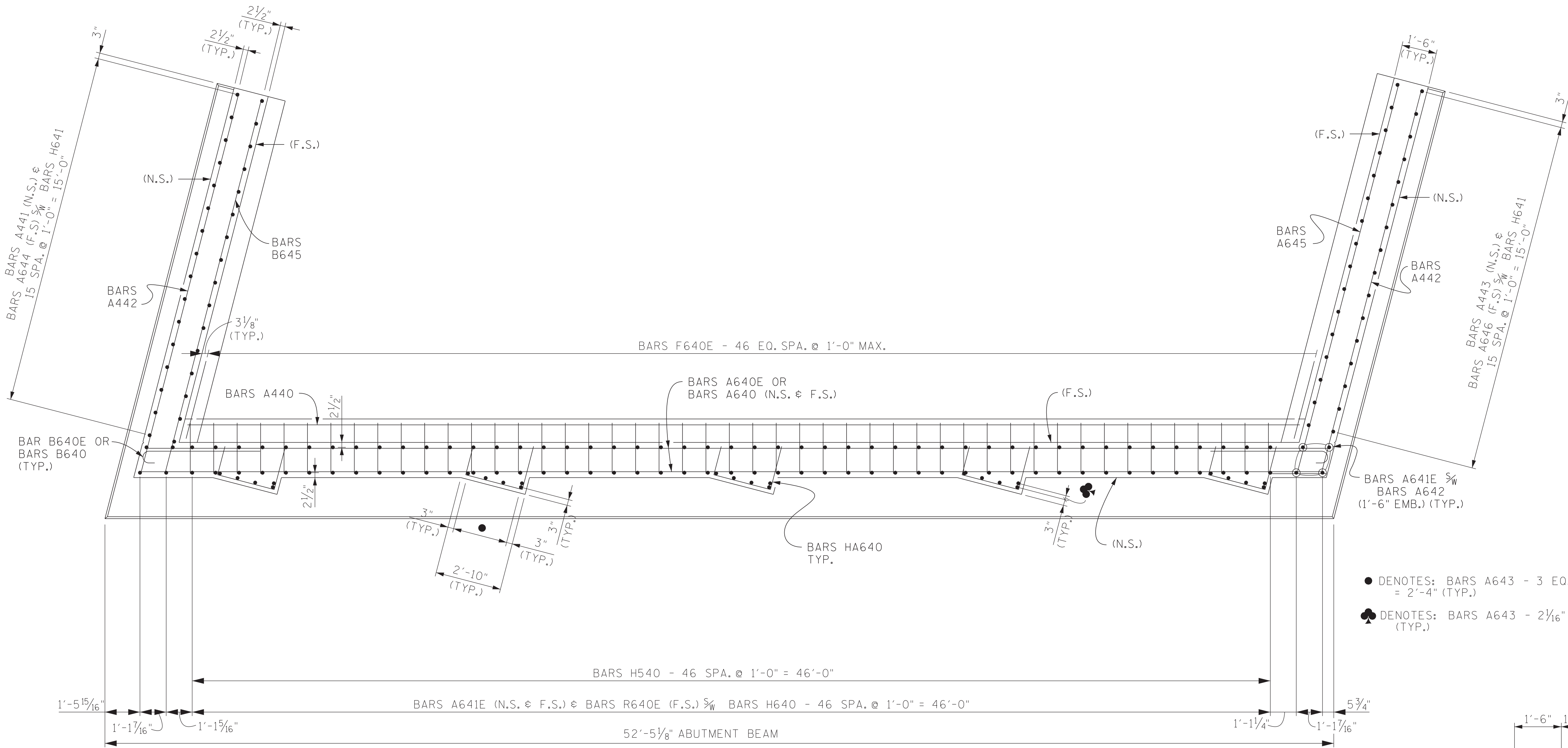


SECTION "D"- "D"

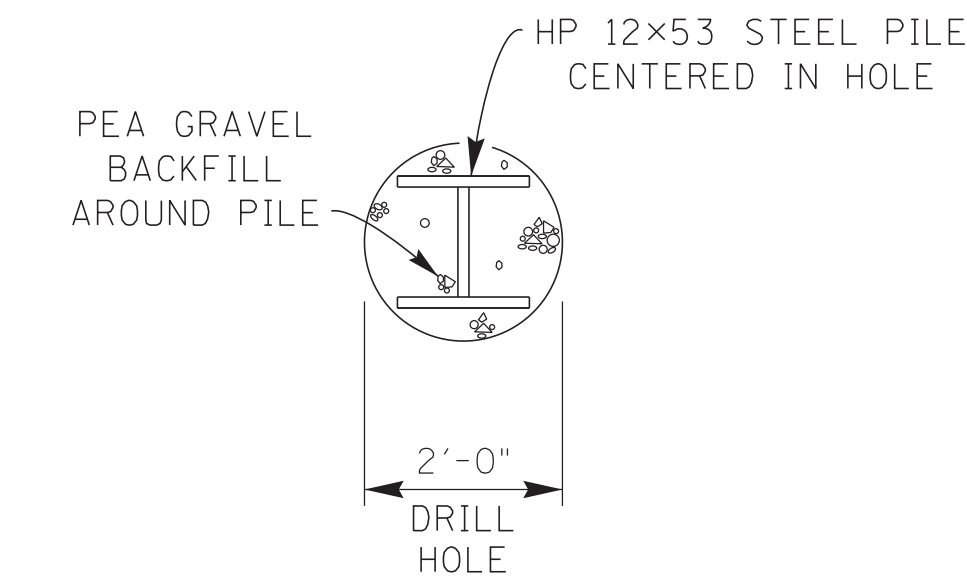


BRIDGE NO. 1
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ABUTMENT NO. 1 DETAILS
STATE ROUTE 28
OVER
NO BUSINESS CREEK
BRIDGE ID. NO. 18SR0280020
STATION 1339+01.10
CUMBERLAND COUNTY

PROJECT NO.		YEAR	SHEET NO.
STP/NH/HPP-28(32)		2026	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	8-10-26	JF	UPDATED PRE-DRILLED PILE DETAIL NOTES

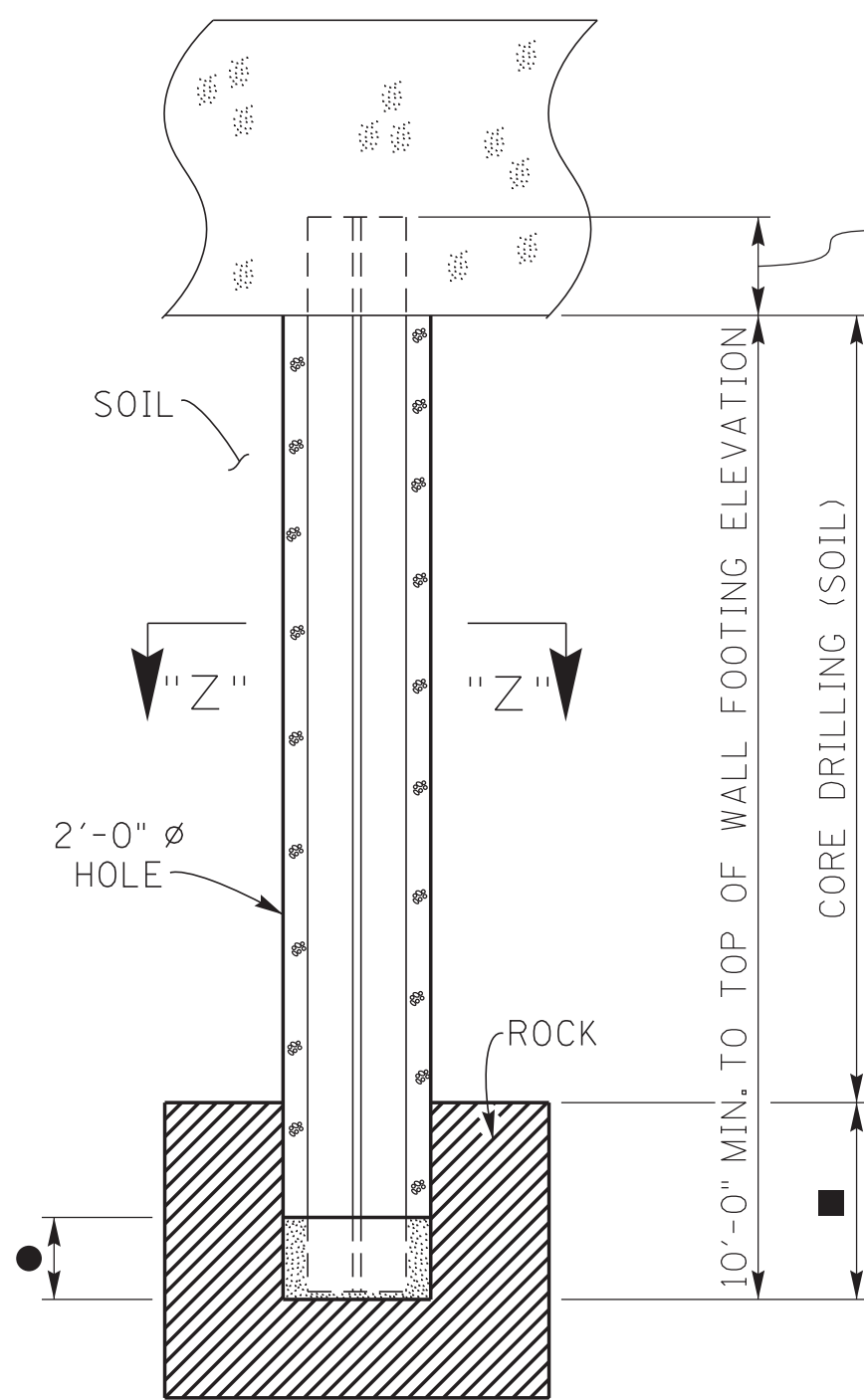


- DENOTES: 1'-0" CONCRETE EMBEDMENT
○ BOTTOM OF HOLE TO SECURE BOTTOM OF PILE IN CENTER OF HOLE.
- DENOTES: CORE DRILLING (ROCK) AS NEEDED TO OBTAIN DEPTH NEEDED.



SECTION "Z-Z"

SECTION "C"- "C"

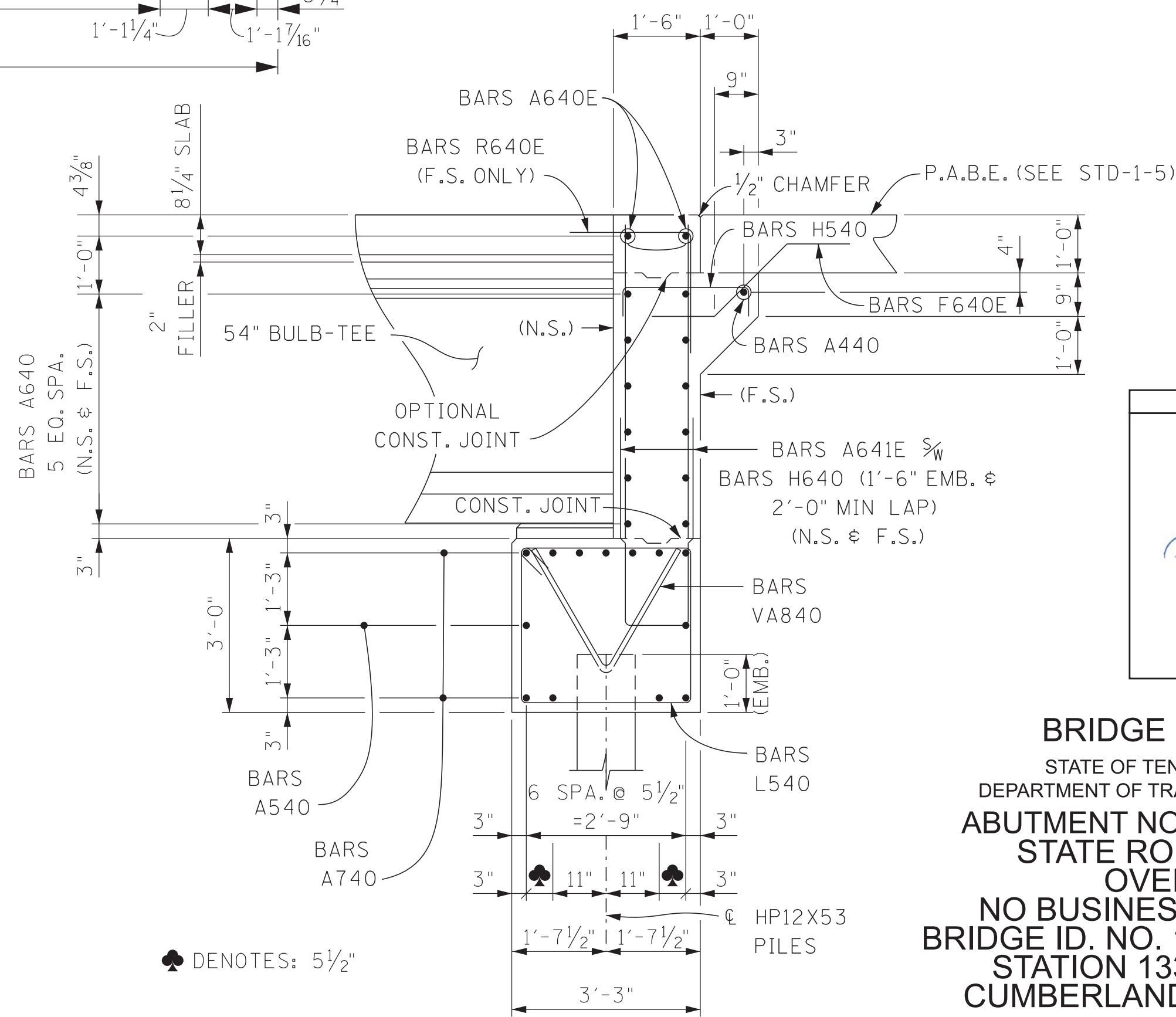


PRE-DRILLED PILE DETAILS ¹

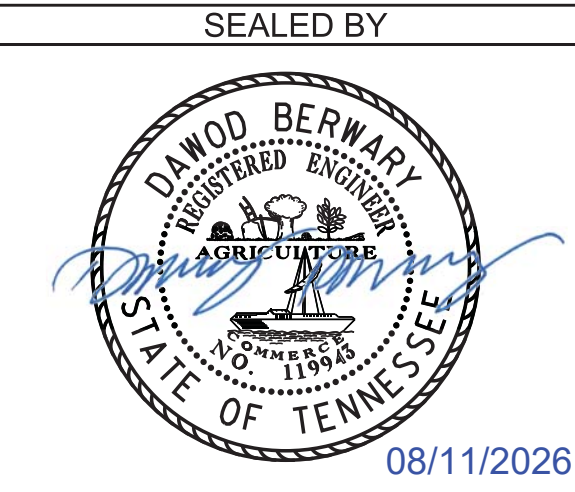
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SECTION "D"- "D"



BRIDGE NO. 1
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ABUTMENT NO. 2 DETAILS
STATE ROUTE 28
OVER
NO BUSINESS CREEK
BRIDGE ID. NO. 18SR0280020
STATION 1339+01.10
CUMBERLAND COUNTY

PIN NO.: 100260.03	
DESIGN BY: J. FALCE	DATE: 6-25
DRAWN BY: B. ERVIN	DATE: 7-25
SUPERVISED BY: S. STEELE/D. BERWARY	DATE: 6-25
CHECKED BY: R. LEFEVRE	DATE: 3-26

9:27:18 AM

8/11/2026

<u>LIST OF DRAWINGS</u>	<u>DWG. NO.</u>	<u>LAST REV. DATE</u>
INDEX OF DRAWINGS	U-95-611	08-10-26
LAYOUT OF BRIDGE	U-95-612	08-10-26
GENERAL NOTES	U-95-613	08-10-26
ESTIMATED QUANTITIES	U-95-614	
FOUNDATION DATA	U-95-615	
SUPERSTRUCTURE	U-95-616	
SUPERSTRUCTURE DETAILS	U-95-617	
SUPERSTRUCTURE DETAILS	U-95-618	
SUPERSTRUCTURE DETAILS	U-95-619	
SUPERSTRUCTURE DETAILS	U-95-620	
SUPERSTRUCTURE DETAILS	U-95-621	
BRIDGE SCREED	U-95-622	
PRESTRESSED BEAM DETAILS SPAN NO. 1	U-95-623	
PRESTRESSED BEAM DETAILS SPAN NO. 2	U-95-624	
PRESTRESSED BEAM DETAILS SPAN NO. 3	U-95-625	
ABUTMENT NO. 1	U-95-626	
ABUTMENT NO. 1 DETAILS	U-95-627	
ABUTMENT NO. 1 DETAILS	U-95-628	08-10-26
ABUTMENT NO. 2	U-95-629	
ABUTMENT NO. 2 DETAILS	U-95-630	
ABUTMENT NO. 2 DETAILS	U-95-631	08-10-26
PIER NO. 1	U-95-632	
PIER NO. 1 DETAILS	U-95-633	
PIER NO. 2	U-95-634	
PIER NO. 2 DETAILS	U-95-635	
PIER NO. 1 AND NO. 2 DETAILS	U-95-636	
FINAL FOUNDATION DATA	U-95-637	
BILL OF STEEL	U-95-638	
BILL OF STEEL	U-95-639	

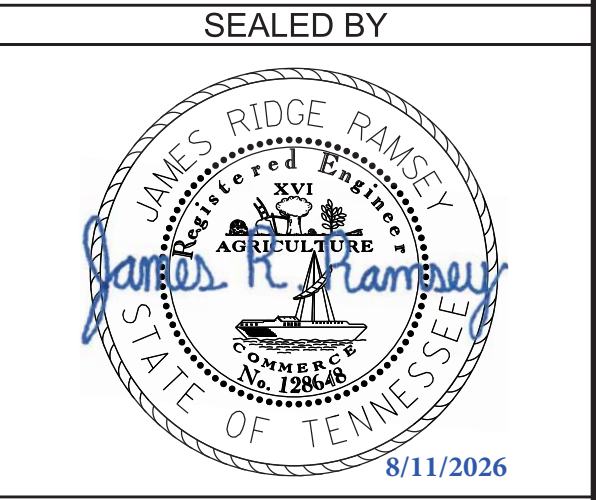
<u>LIST OF STANDARD DRAWINGS</u>	<u>DWG. NO.</u>	<u>LAST REV. DATE</u>
BRIDGE END DRAIN FLUME DETAILS	D-FLU-3	04-14-25
SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION	RD11-SA-1	01-09-24
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET	STD-1-1SS	07-09-25
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5	06-05-23
STANDARD PILE DETAILS	STD-5-1	
STANDARD SEISMIC DETAILS	STD-6-1	12-08-23
TRI-STAR STATE EMBLEM FINISH DETAILS	STD-8-6	10-03-18
STANDARD REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS	STD-10-1	06-05-23
MISCELLANEOUS ABUTMENT & PAVEMENT AT BRIDGE ENDS BACKFILL DETAILS	STD-10-2	06-05-23
STANDARD DETAILS AND INTERMEDIATE DIAPHRAGM DETAILS FOR BULB-TEE AND WIDE BULB-TEE BEAMS	STD-14-1	06-05-23

<u>LIST OF SPECIAL PROVISIONS</u>	<u>PROV. NO.</u>	<u>LAST REV. DATE</u>
DRILLED SHAFT SPECIFICATIONS	625	09-01-21

PIN NO.: 100260.03
DESIGN BY: RIDGE RAMSEY DATE: 07-25
DRAWN BY: B. ERVIN DATE: 08-25
SUPERVISED BY: S. STEELE/D. BERWARY DATE: 07-25
CHECKED BY: D. BERWARY DATE: 02-26

CONST. NO.: 18008-3230-14

PROJECT NO.		YEAR	SHEET NO.
STP/NH/HPP-28(32)		2026	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	8-10-26	JRR	UPDATED REVISION DATES



BRIDGE NO. 2
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
INDEX OF DRAWINGS
STATE ROUTE 28
OVER
LICKFORK CREEK
BRIDGE ID NO. 18SR0280015
STATION 1396+75.00
CUMBERLAND COUNTY

U-95-611



STATE ROUTE 28

DRAINAGE AREA = 1.55 MI.²
 DESIGN DISCHARGE (100 YR.) = 992 CFS
 WATER AREA PROVIDED BELOW ELEV.1715.60 = 110.12 FT.²
 100 YR. VELOCITY = 13.30 FPS
 100 YR. BRIDGE BACKWATER = 0.59 FT. @ ELEV.1721.03
 ROADWAY OVERTOPPING ELEV. = 1776.02
 500 YR. DISCHARGE 1400.00 CFS @ ELEV. 1722.40

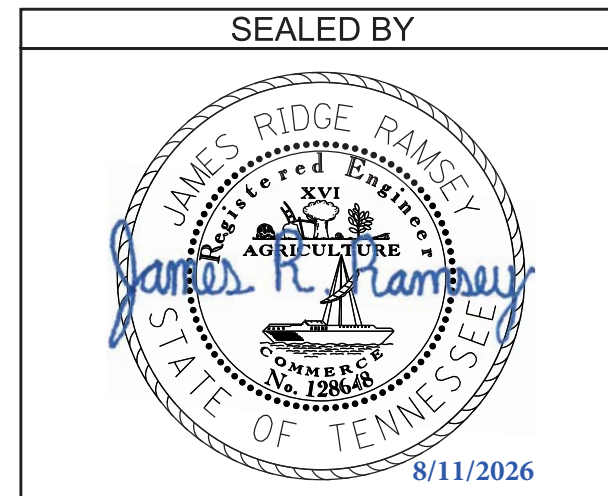


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(VSTATE ROUTE 28)
PI      1396+89.44
N       646,450,8262
E       2,244,323,8504
Δs      46°30'22" (RT)
Θs      3°53'55"
ΔC      38°42'32" RT
Dc      2°01'31"
Rc      2,829.00
Lc      1,911.26
Ts      1,409.02
Ls      385.00
SE      0.065 FT/FT
DESIGN SPEED 70 MPH
TRANS. LENGTH 385

```

PIN NO.: 100260.03
 DESIGN BY: RIDGE RAMSEY DATE: 07-25
 DRAWN BY: B. ERVIN DATE: 08-25
 SUPERVISED BY: S. STEELE/D. BERWARY DATE: 07-25
 CHECKED BY: D. BERWARY DATE: 02-26



BRIDGE NO. 2
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
LAYOUT OF BRIDGE
STATE ROUTE 28
OVER
LICKFORK CREEK
BRIDGE ID NO. 18SR0280015
STATION 1396+75.00
CUMBERLAND COUNTY

CORRECT Ed A. Kniagulyan
ENGINEER OF STRUCTURES

GENERAL NOTES

SPECIFICATIONS & LOADING

CONSTRUCTION SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (APRIL 1, 2026 EDITION).

DESIGN SPECIFICATIONS: 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS

- LOADING:**
- A. HL-93 LIVE LOAD INCREASED BY 10% (MULTIPIED BY 1.1) IN ADDITION TO ALL LOAD FACTORS SPECIFIED BY AASHTO FOR ALL APPLICABLE LOAD COMBINATIONS
 - B. SEISMIC DESIGN CATEGORY A WITH A_S= 0.101, S_{D5}= 0.223, S_{D1}= 0.113, (1000 YEAR RETURN PERIOD)
 - C. DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

CONCRETE, REINFORCING & FORMING

CONCRETE: TO BE CLASS A (CAST-IN-PLACE) F'C = 3000 PSI EXCEPT AS NOTED OTHERWISE.

BRIDGE DECKS: CLASS DS CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.

BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH METHOD 3 IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS SHALL BE REMAIN-IN-PLACE STEEL. FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWING STD-14-1 AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.

REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.

FOUNDATION ELEMENTS

ABUTMENTS ON FILL: THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.

END-BEARING STEEL PILES: TO BE HP 12x53 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 225 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

STREAM CHANNEL: ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. PIER FOOTING, RIP-RAP PLACEMENT, 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 TEMPORARY DIVERSION CHANNELS (EC-STR-31).

DRILLED SHAFTS: SEE SPECIAL PROVISION 625 REGARDING DRILLED SHAFT SPECIFICATIONS.

PRECAST SUPERSTRUCTURES

SLAB OVERHANGS: IT IS RECOMMENDED THAT SPACING OF OVERHANG BRACKETS FOR BEAMS NOT EXCEED 2'-0" CENTER-TO-CENTER.

MISCELLANEOUS GENERAL NOTES

UTILITIES: IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.

SHOP DRAWINGS: SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

PARAPET SYSTEM: BUILD PARAPETS ACCORDING TO STANDARD DRAWING STD-1-1SS. THE PARAPETS SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE TRAFFIC FACE SHALL BE KEPT CONSTANT, WITH VARIATION DUE TO CROSS-SLOPE ACCOMMODATED AT THE REAR FACE.

MACHINED RIP-RAP: MACHINED RIP-RAP FOR SLOPE PROTECTION SHALL BE 2" TO 6" IN SIZE UNIFORMLY GRADED AND MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05.05.

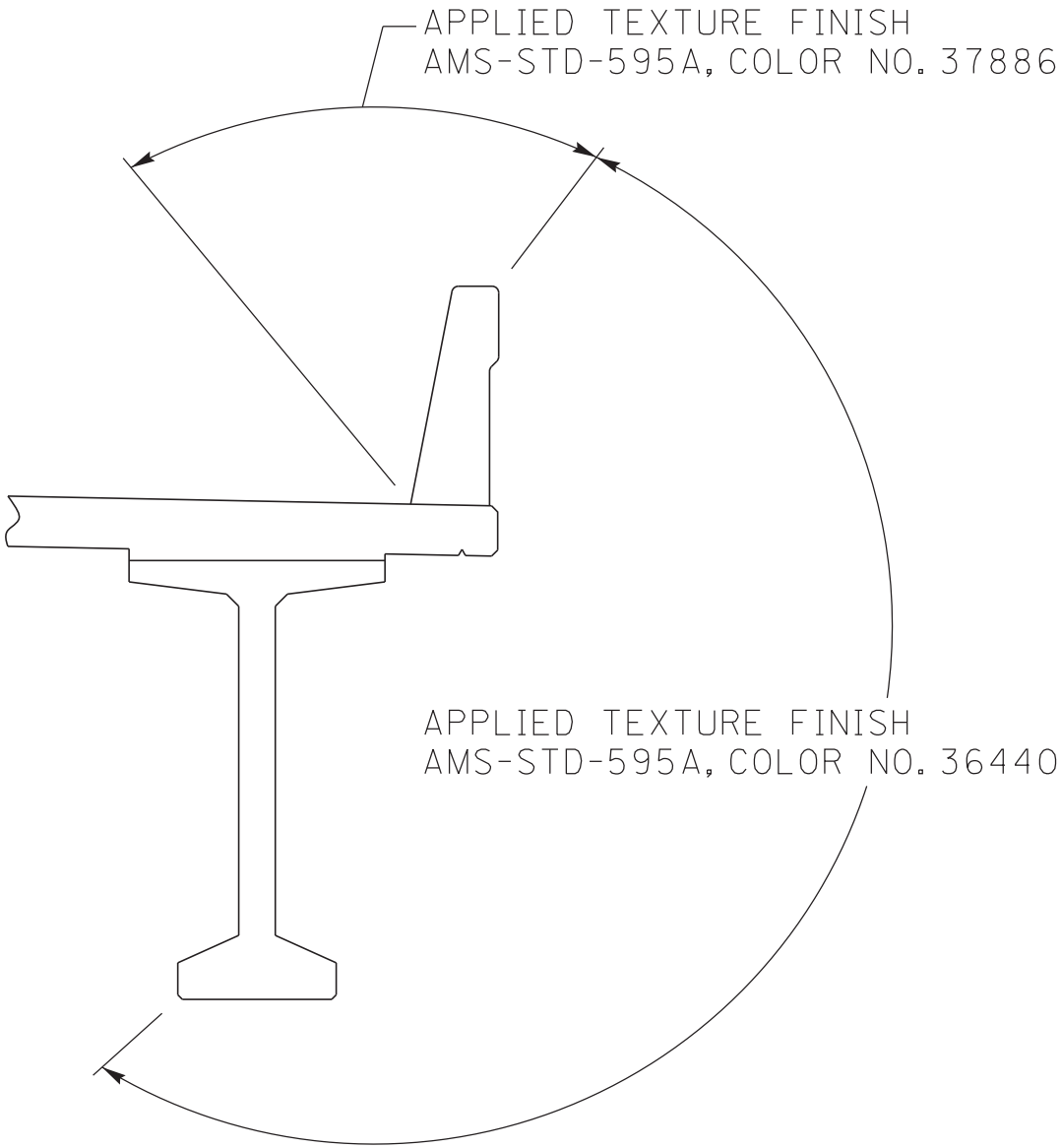
VALUE ENGINEERING ALTERNATE BRIDGE DESIGN CRITERIA: ALTERNATE BRIDGE DESIGN PROPOSALS MAY NOT DIMINISH THE FUNCTIONAL OR STRUCTURAL EQUIVALENCY OF THE BRIDGE AND MUST MEET OR EXCEED THE CAPACITIES OF THE CONTRACT PLANS STRUCTURE AT ALL LIMIT STATES IN AASHTO TABLE 3.4.1-1. ADDITIONALLY, THE WATERWAY OPENING AND FLOOD CLEARANCES MAY NOT BE REDUCED.

FINISHING CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01.

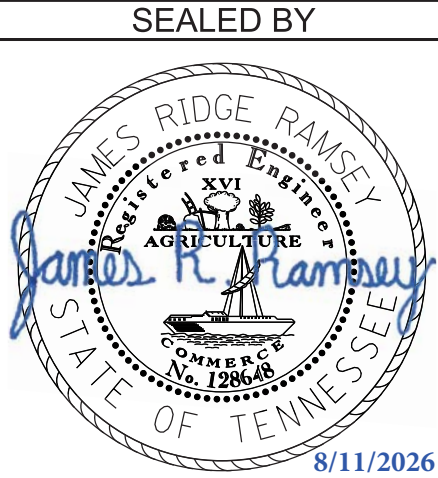
TEXTURE FINISH: IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT BEAMS, PIERS, AND EXTERIOR PORTIONS OF THE ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH. (GRAY, AMS-STD-595A, COLOR NO. 36440).

CONST. NO.: 18008-3230-14

PROJECT NO.		YEAR		SHEET NO.	
STP/NH/HPP-28(32)		2026			
REVISIONS					
NO.	DATE	BY	BRIEF DESCRIPTION		
1	8-10-26	JRR	UPDATED GENERAL NOTES		

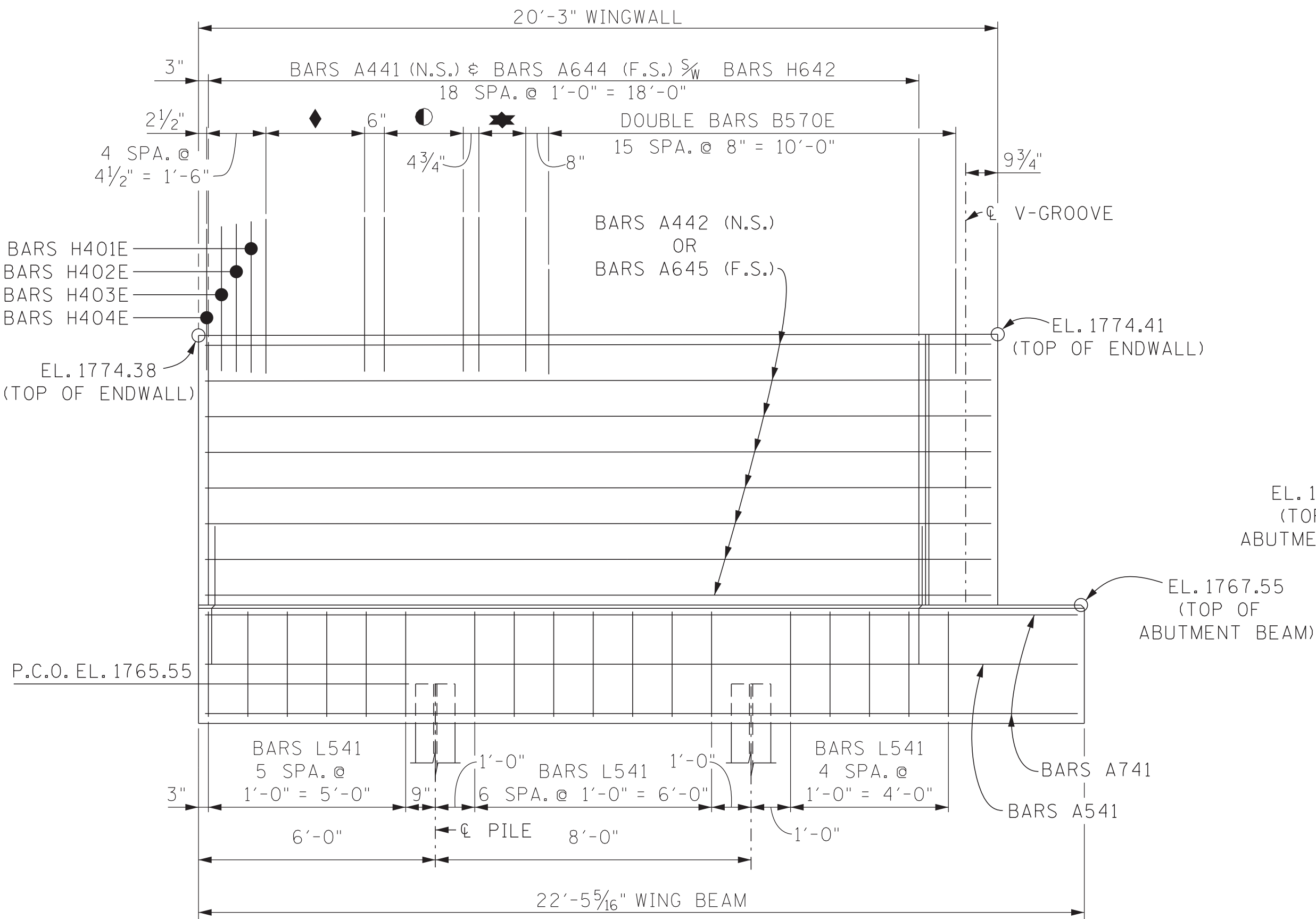


APPLIED TEXTURE FINISH SKETCH

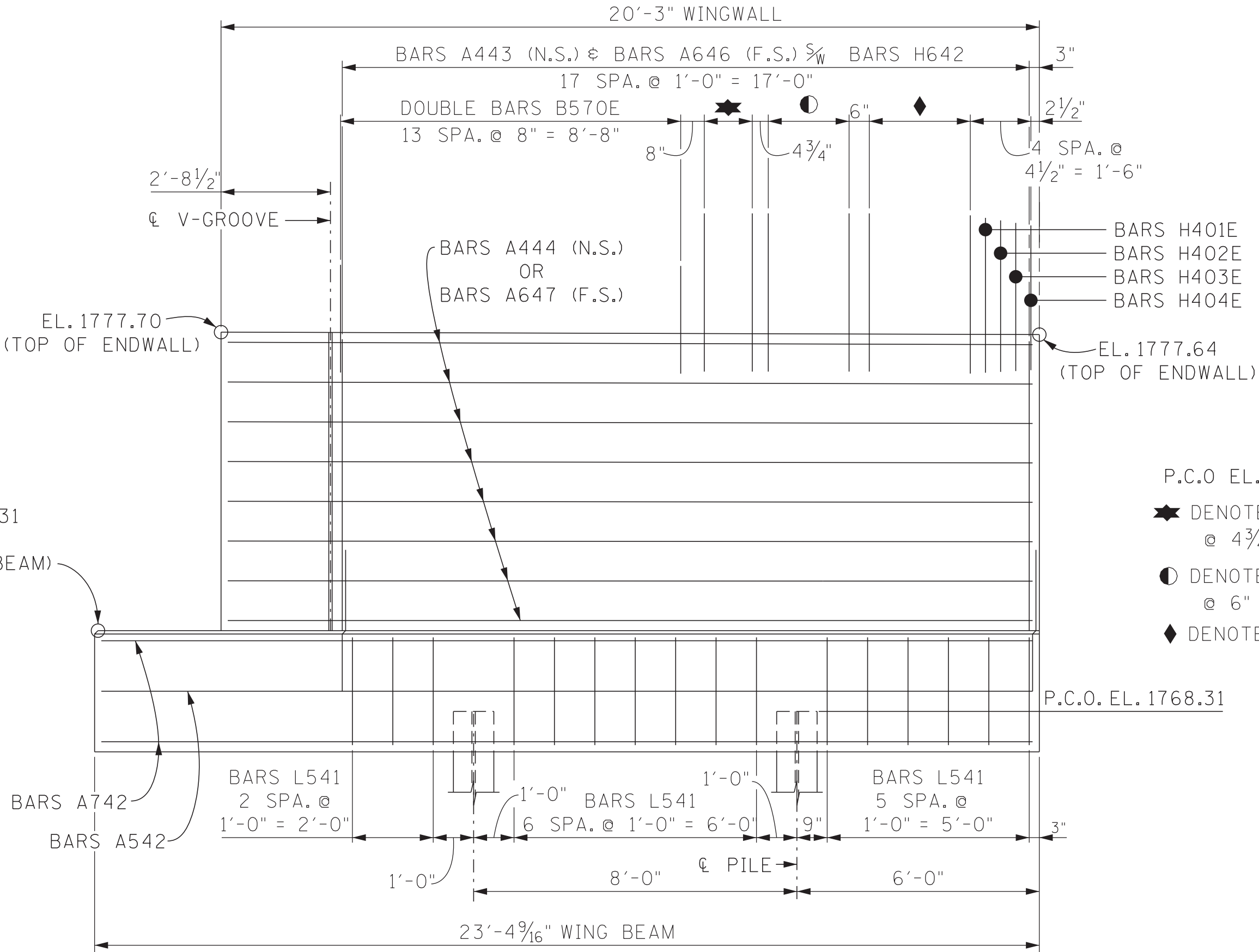


BRIDGE NO. 2
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
GENERAL NOTES
STATE ROUTE 28
OVER
LICKFORK CREEK
BRIDGE ID NO. 18SR0280015
STATION 1396+75.00
CUMBERLAND COUNTY

PROJECT NO.		YEAR	SHEET NO.
STP/NH/HPP-28(32)		2026	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	8-10-26	JRR	UPDATED PRE-DRILLED PILE DETAIL NOTES



ELEVATION "A"-"A"



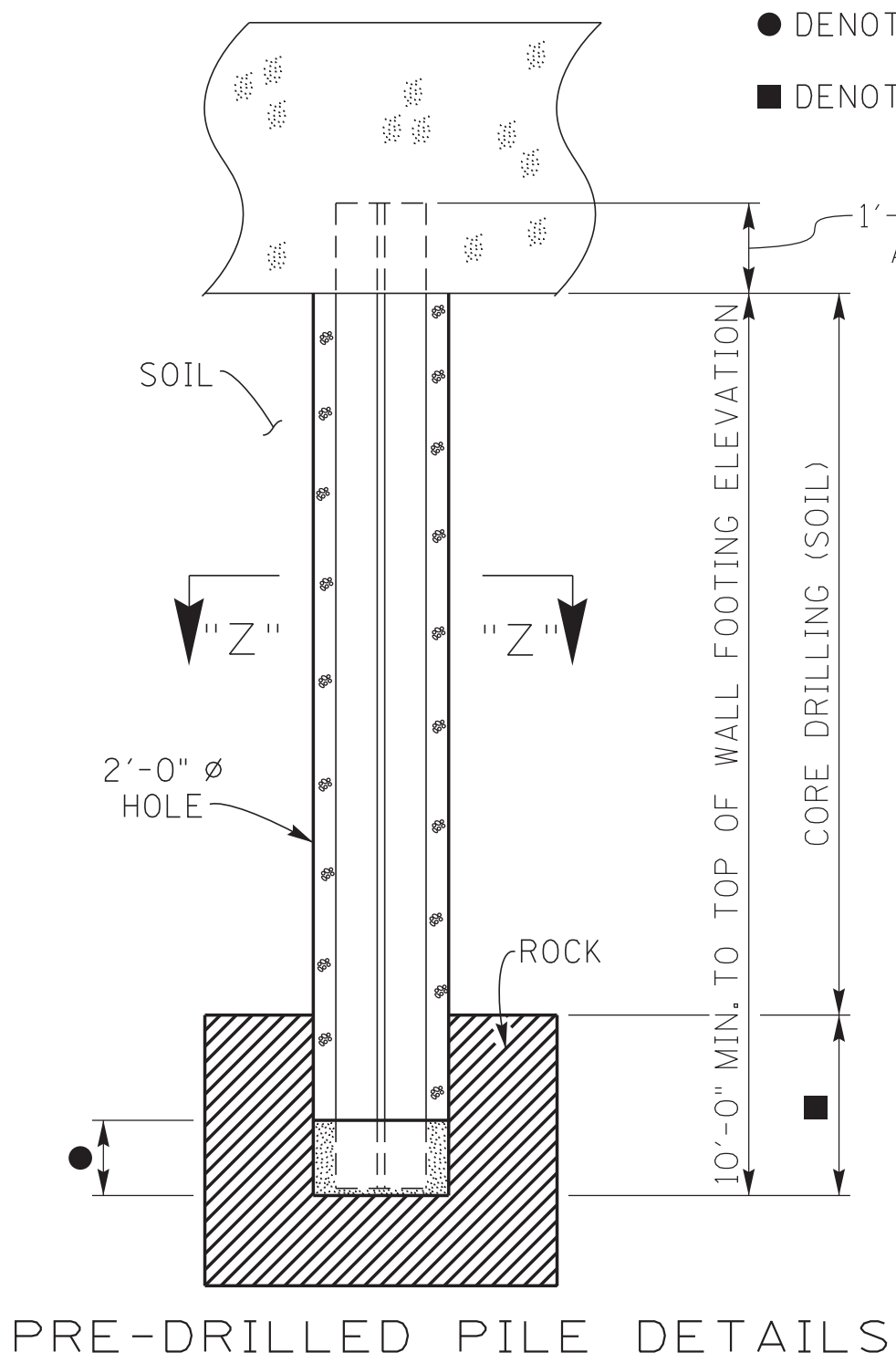
ELEVATION "B"-"B"

P.C.O EL. DENOTES: PILE CUT-OFF ELEVATION

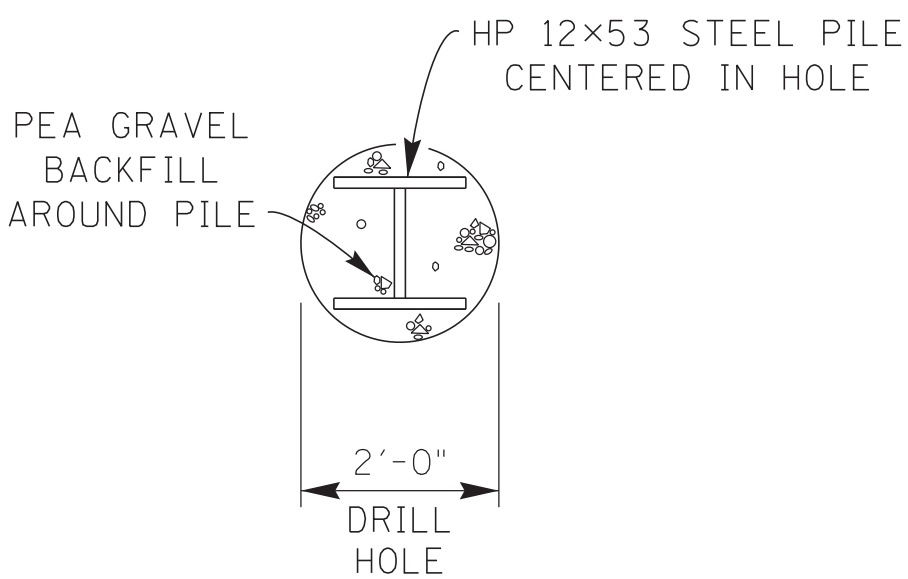
★ DENOTES: SERIES BARS HD400E - 3 SPA. @ 4 3/4" = 1'-2 1/4"

● DENOTES: SERIES BARS HD401E - 4 SPA. @ 6" = 2'-0"

◆ DENOTES: BARS H400E - 5 SPA. @ 6" = 2'-6"



- DENOTES: 1'-0" OF HIGH EARLY STRENGTH CONCRETE
- DENOTES: CORE DRILLING (ROCK)

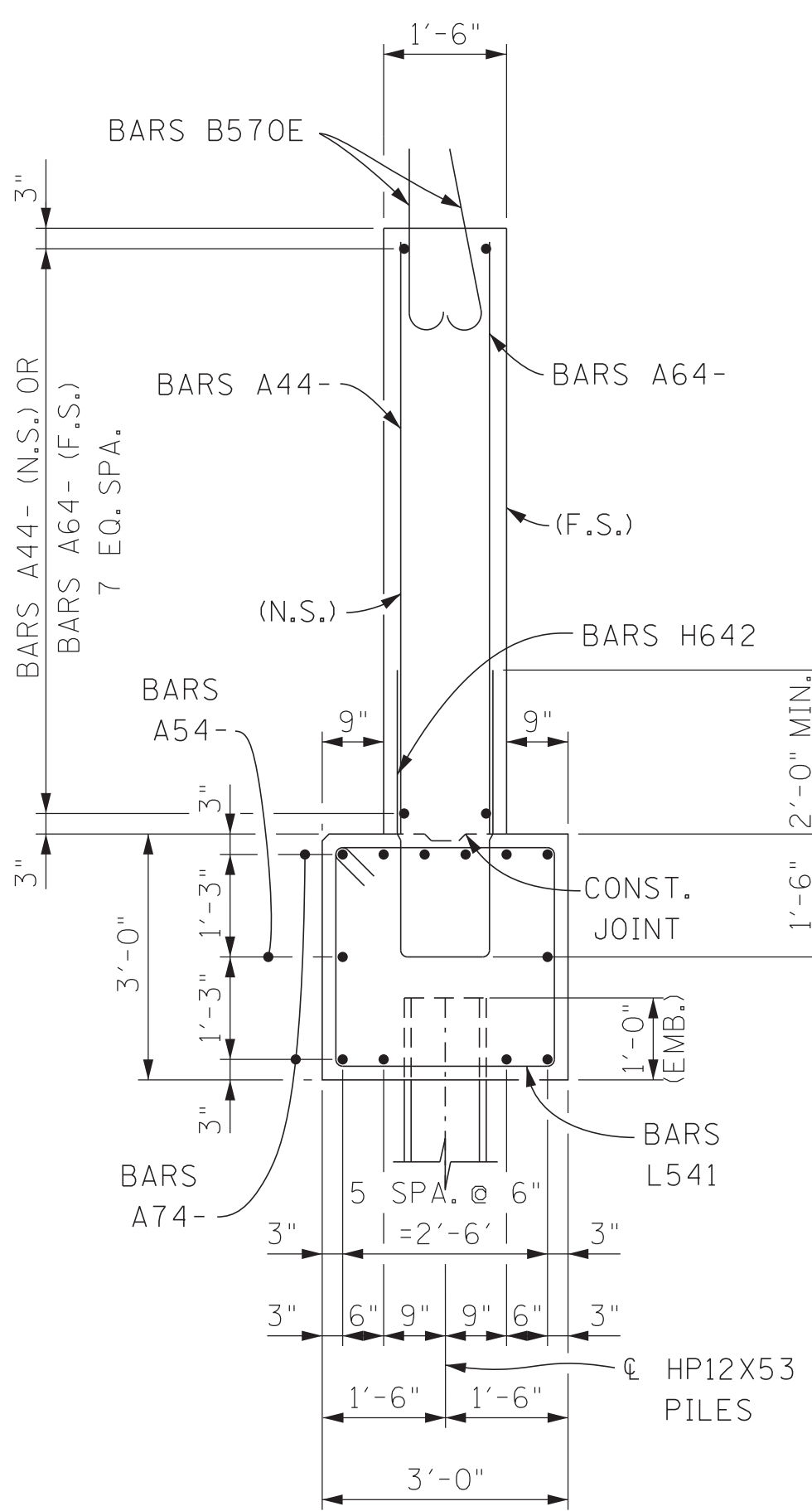


SECTION "Z"-"Z"

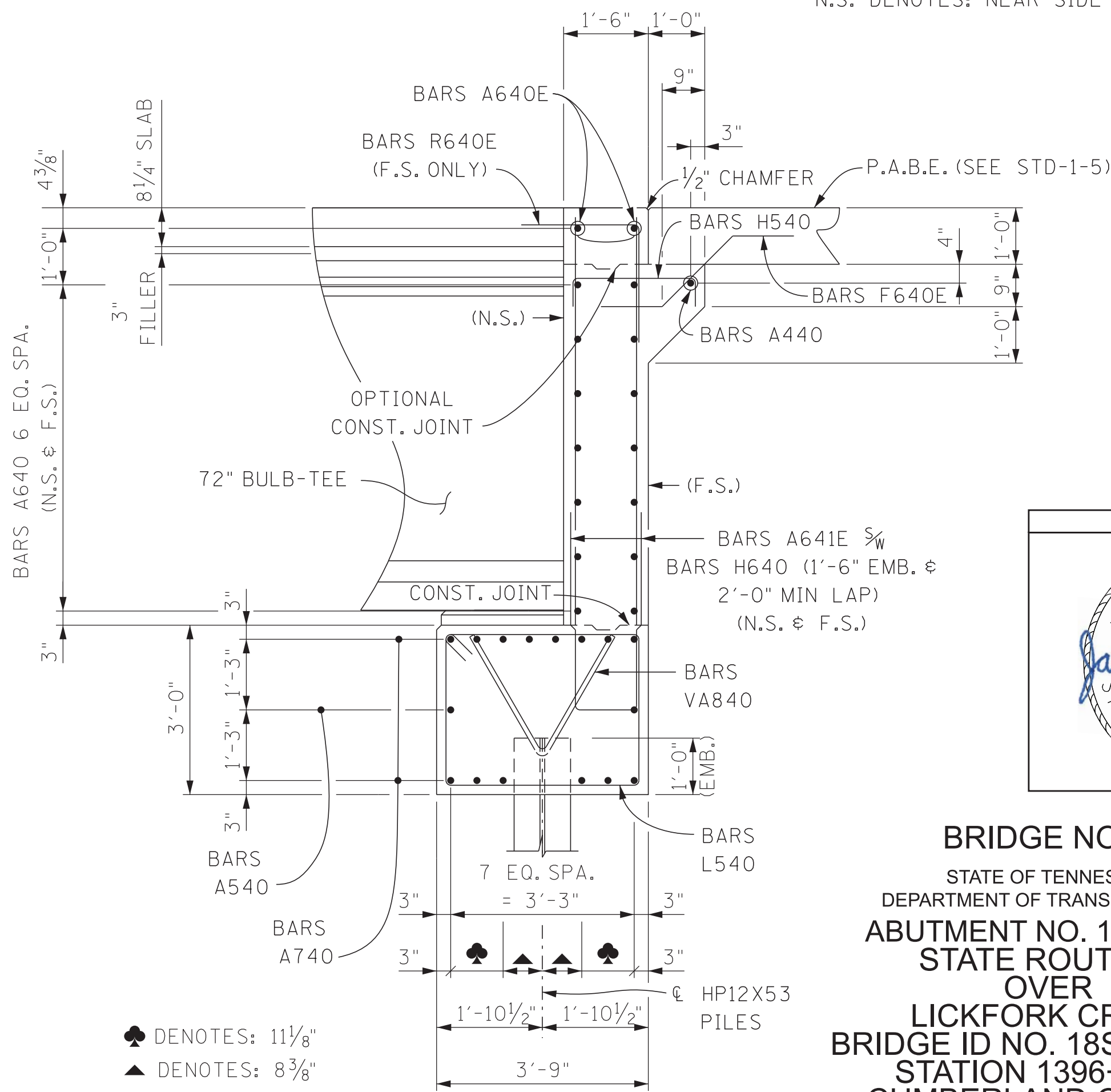
ALL PILES AT ABUTMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET. STEEL PILE TIPS (ITEM NO. 606-02.06) ARE NOT REQUIRED.

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SECTION "A"-"A"



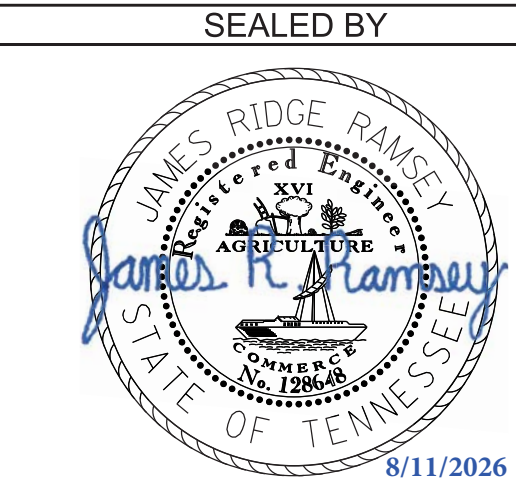
- ♣ DENOTES: 11 1/8"
- ▲ DENOTES: 8 3/8"

SECTION "D"-"D"

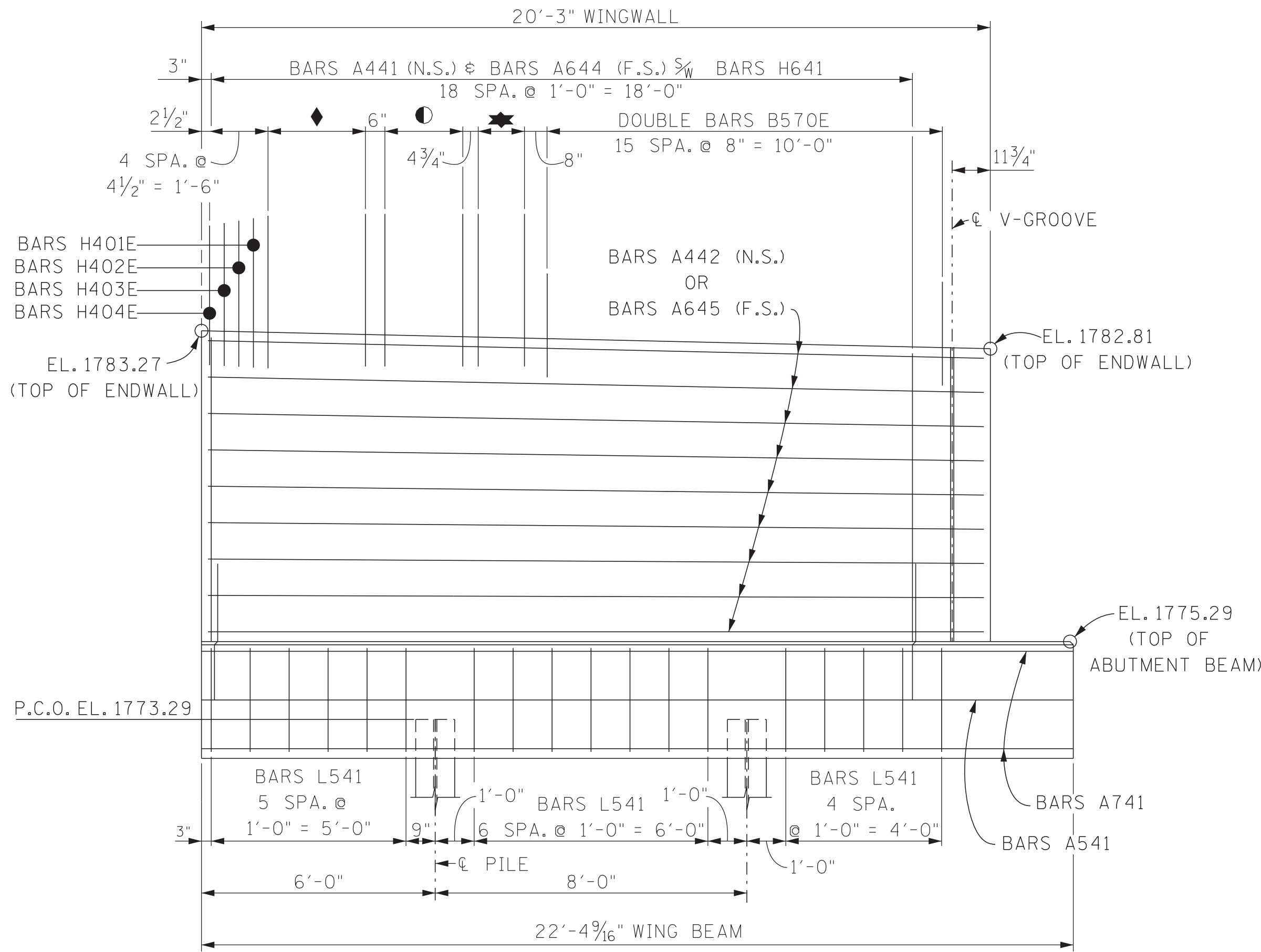
F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE

PIN NO.: 100260.03
DESIGN BY: RIDGE RAMSEY DATE: 07-25
DRAWN BY: B. ERVIN DATE: 7-25
SUPERVISED BY: S. STEELE/D. BERWARY DATE: 07-25
CHECKED BY: D. BERWARY DATE: 02-26

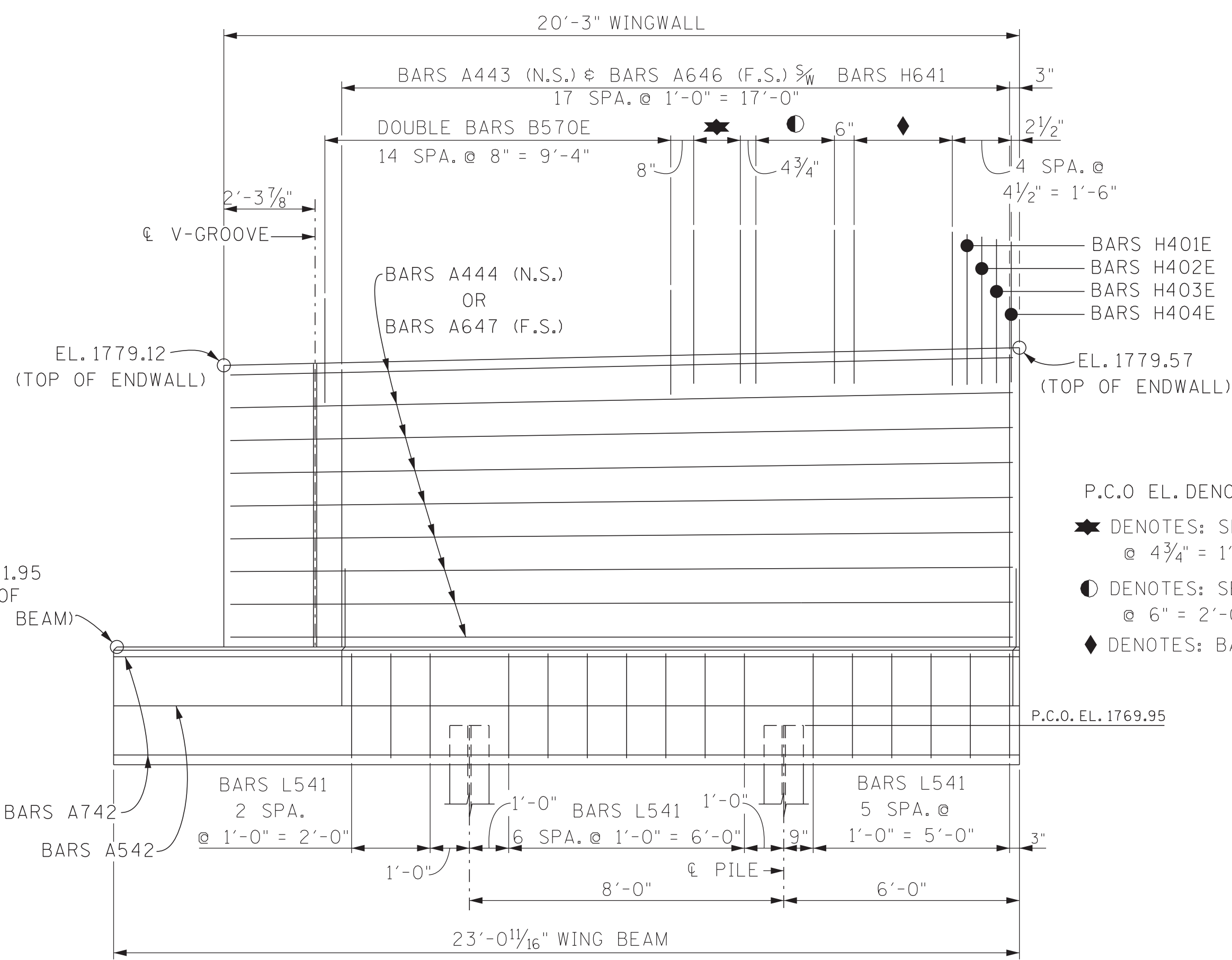
BRIDGE NO. 2
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ABUTMENT NO. 1 DETAILS
STATE ROUTE 28
OVER
LICKFORK CREEK
BRIDGE ID NO. 18SR0280015
STATION 1396+75.00
CUMBERLAND COUNTY



PROJECT NO.		YEAR	SHEET NO.
STP/NH/HPP-28(32)		2026	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	8-10-26	JRR	UPDATED PRE-DRILLED PILE DETAIL NOTES



ELEVATION "A"-"A"



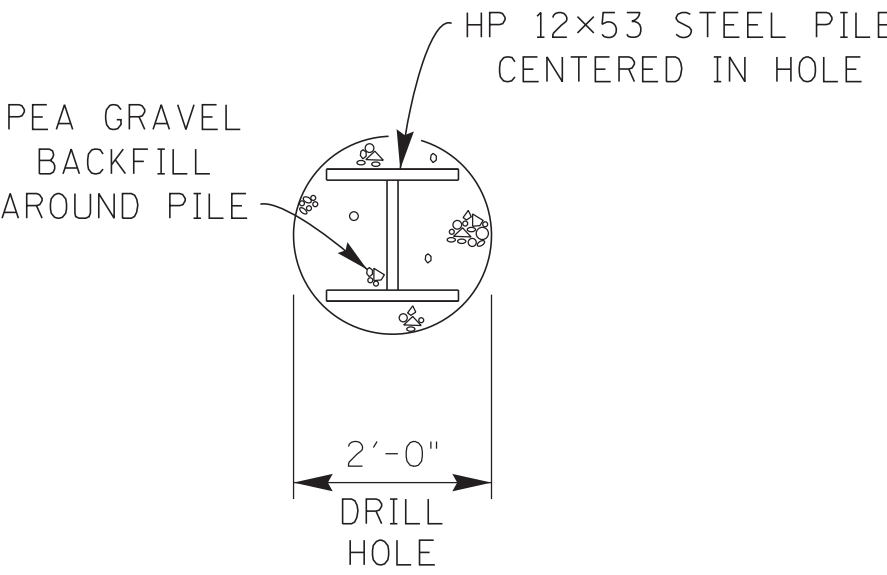
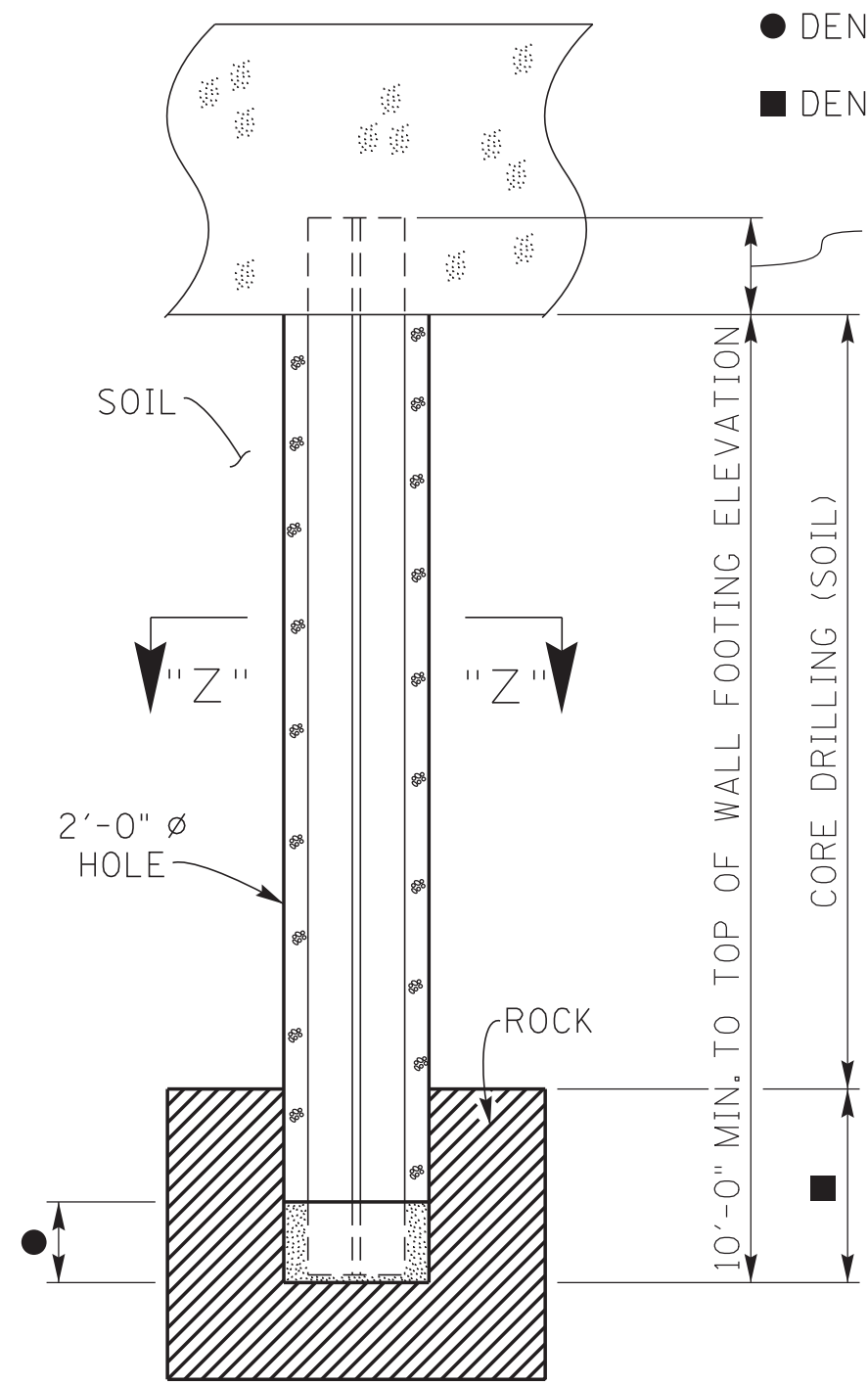
ELEVATION "B"-"B"

P.C.O EL. DENOTES: PILE CUT-OFF ELEVATION

★ DENOTES: SERIES BARS HD400E - 3 SPA.
@ 4 3/4" = 1'-2 1/4"

● DENOTES: SERIES BARS HD401E - 4 SPA.
@ 6" = 2'-0"

◆ DENOTES: BARS H400E - 5 SPA. @ 6" = 2'-6"

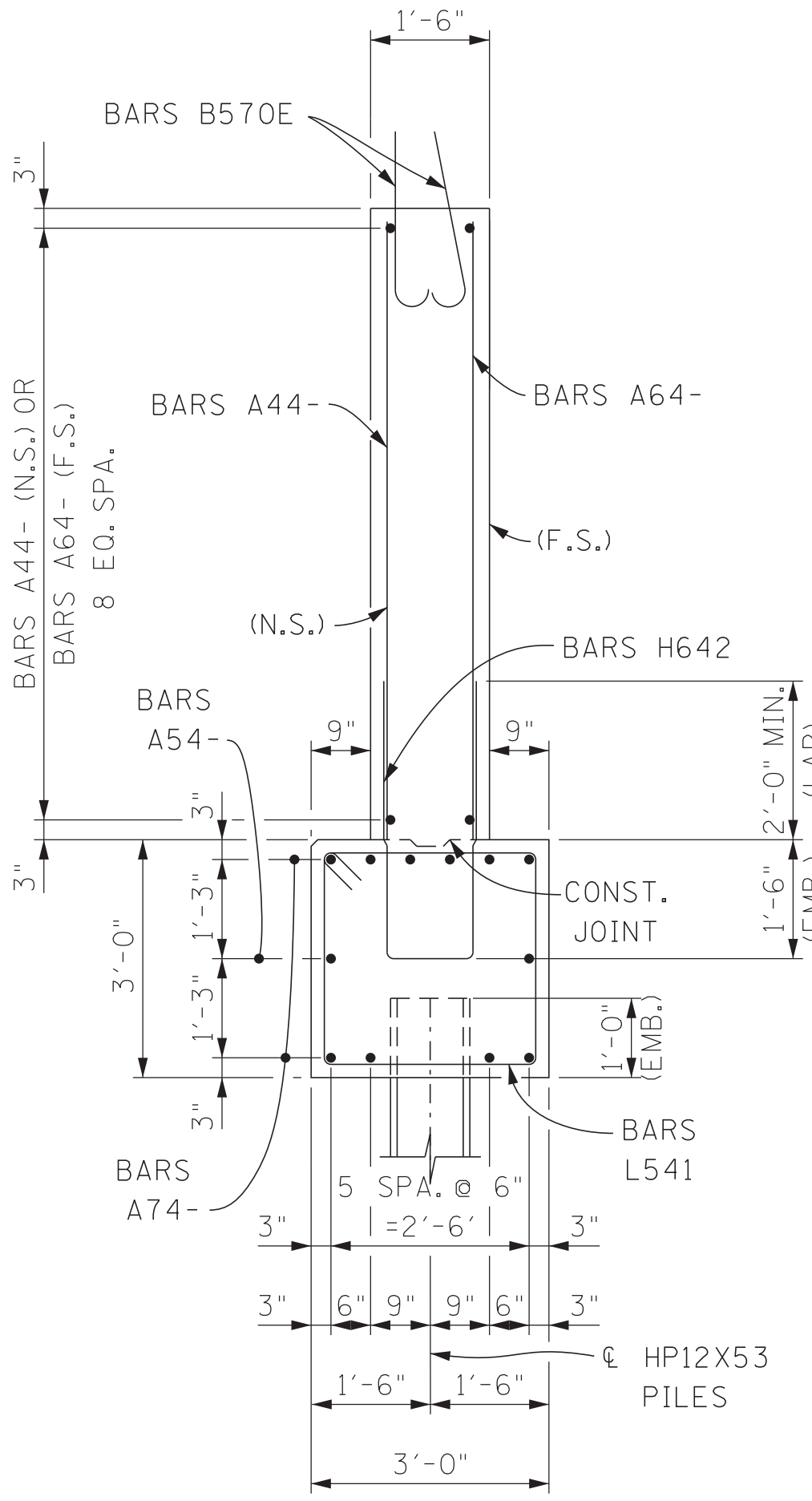


SECTION "Z-Z"

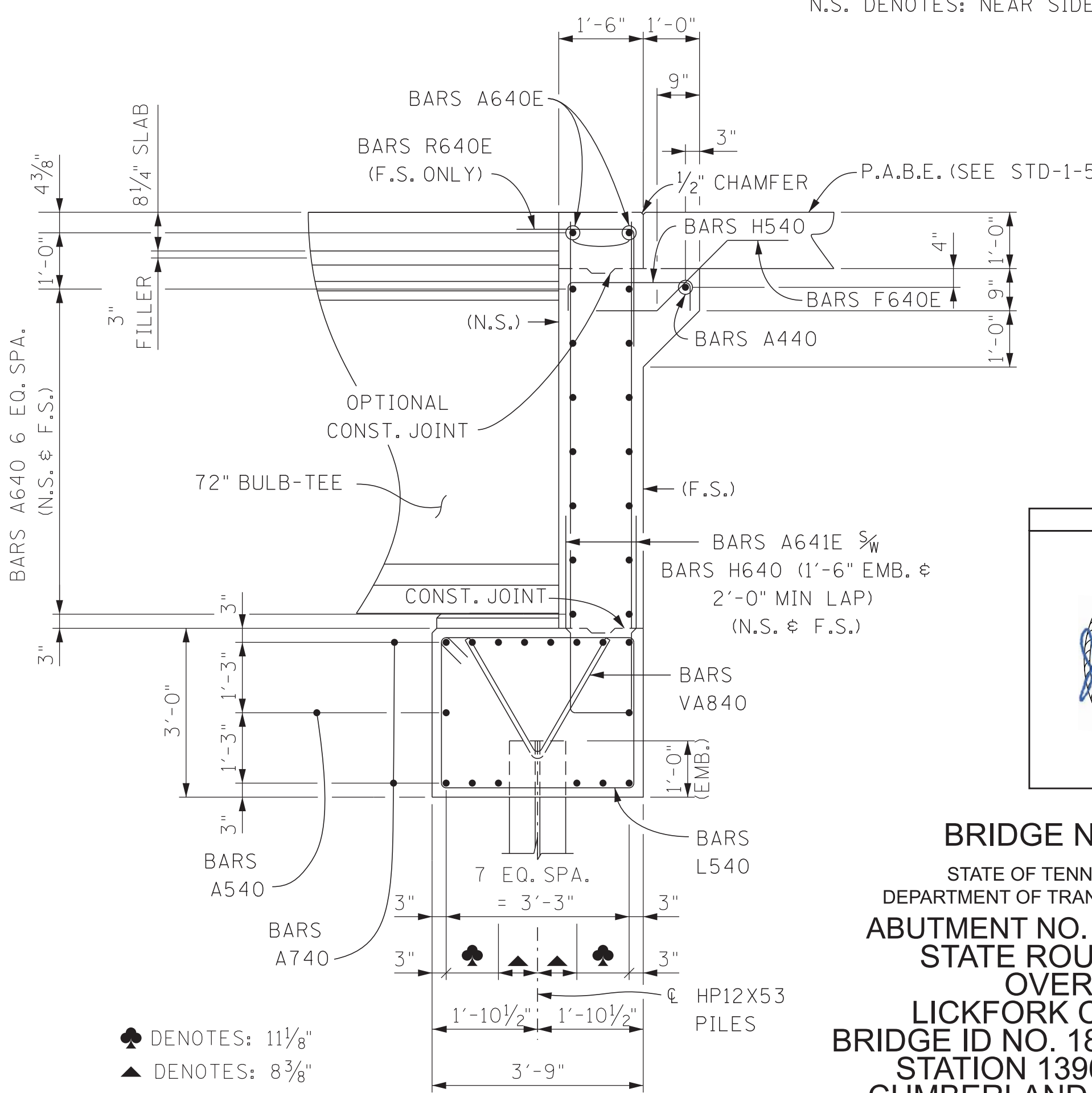
ALL PILES AT ABUTMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET. STEEL PILE TIPS (ITEM NO. 606-02.06) ARE NOT REQUIRED.

- A 2'-0" DIAMETER HOLE (10'-0" MINIMUM IN LENGTH) SHALL BE DRILLED IN THE PLANS LOCATION FOR THE PILE. THE AMOUNT OF CORE DRILLING (SOIL) AND CORE DRILLING (ROCK) WILL VARY DUE TO LOCATION OF ROCK LINE.
- THE HOLE SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, MINIMUM OF 12 INCHES OF HIGH EARLY STRENGTH CONCRETE PLACED IN THE BOTTOM OF THE HOLE, THE PILE INSERTED AND CENTERED IN THE HOLE, AND THE PILE SUPPORTED UNTIL THE CONCRETE REACHES ITS INITIAL SET STRENGTH.
- AS SOON AS THE CONCRETE HAS OBTAINED ITS INITIAL SET AND IT IS ABLE TO STABILIZE THE PILE TIP LOCATION IN THE BOTTOM OF THE HOLE, THE HOLE SHALL BE BACKFILLED WITH PEA GRAVEL. THE TOP OF THE PILE SHALL BE BRACED IN A MANNER SO THAT ITS VERTICAL POSITION IN THE CENTER OF THE HOLE IS MAINTAINED.

BASIS FOR PAYMENT:
THE COST OF ALL MATERIAL AND LABOR FOR DRILLING THE 2'-0" HOLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NOS. 204-14 AND 204-15, THE COST OF ALL MATERIAL AND LABOR FOR PILE END ENCASMENT, BACKFILLING WITH PEA GRAVEL, BRACING OF THE PILES, AND ANY OTHER INCIDENTALS REQUIRED FOR FULL INSTALLATION OF THE PILES SHALL BE INCLUDED IN ITEM NO. 606-03.03



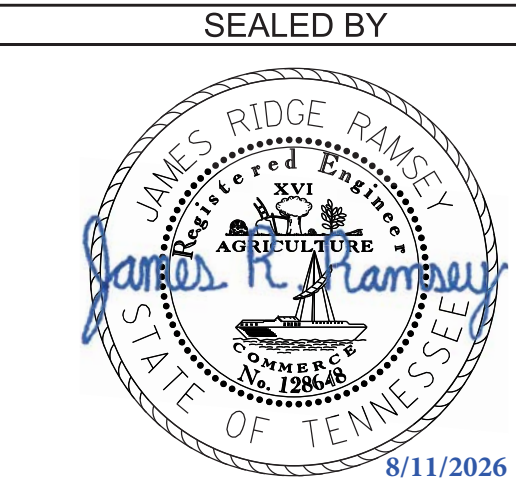
SECTION "A"-"A"



SECTION "D"-"D"

F.S. DENOTES: FAR SIDE
N.S. DENOTES: NEAR SIDE

BRIDGE NO. 2
STATE OF TENNESSEE
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ABUTMENT NO. 2 DETAILS
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