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

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YEAR	PROJECT NO.	SHEET NO.
2025	NH/STP-M-I-75-3(192)	ROADWAY-SIGN3

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; ADDED SHEET.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
SHEET

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ROADWAY INDEX

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NOTE: THE ALPHABETICAL LETTERS “I”, “O”, & “Q” ARE NOT USED IN THE NUMBERING OF THE SHEETS.

- SEE STANDARD DRAWINGS PRINTED WITH PLANS.

STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET
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-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
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

ROADWAY DESIGN STANDARDS

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-SE-3		SUPERELEVATION TRANSITION DETAILS FOR DIVIDED ROADWAYS
RD11-SE-3A		SUPERELEVATION TRANSITION SECTIONS FOR DIVIDED ROADWAYS
RD11-TS-1	06-28-19	DESIGN STANDARDS FOR LOW-VOLUME ROADS
RD11-TS-1A	06-28-19	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD11-TS-2		DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS AND STREETS
RD11-TS-3B		DESIGN STANDARDS FOR ARTERIAL HIGHWAYS WITH FLUSH MEDIAN (4 AND 6 LANE)
RD11-TS-4	10-01-24	DESIGN STANDARDS FOR ARTERIAL AND FREEWAY RAMPS (1, 2 AND 3 LANE)
RD11-TS-6A		TYPICAL CURB & GUTTER SECTIONS WITHOUT SHOULDERS AND WITH GRASS STRIPS
RD11-TS-6C		TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDERS AND WITHOUT GRASS STRIPS
RD11-LR-1		MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SA-1	01-09-24	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
RD11-SD-4		INTERSECTION SIGHT DISTANCE 4-LANE AND 5-LANE UNDIVIDED ROADWAYS
RD11-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD11-SD-6		INTERSECTION SIGHT DISTANCE 6-LANE DIVIDED HIGHWAYS
RD-UD-3	01-09-24	UNDERDRAIN DETAILS
RD-UD-4	06-28-19	UNDERDRAIN LATERAL DETAILS
RD-UD-6	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-8	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 SLOPES
RD-UD-9	06-28-19	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
PIPE CULVERTS AND ENDWALLS		
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	03-01-23	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
D-PG-3	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PG-4	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE ARCHES
D-PE-48A	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 48" PIPE WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-48B	06-28-19	TYPE "U" CROSS DRAIN ENDWALL FOR 48" PIPE, BILL OF STEEL AND PRECAST NOTES
D-PE-4	06-28-19	STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30")
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES)
CATCH BASINS AND MANHOLES		
D-CB-10LPC	02-20-20	LOW PROFILE LOWERED CURB 32" X 26" RECTANGULAR CONCRETE NO. 10LPC CATCH BASIN
D-CB-10RA	01-28-22	STANDARD PRECAST 48" CIRCULAR NO. 10 CATCH BASIN FOR USE WITH 6" VERTICAL CURB
D-CB-10S	02-20-20	STANDARD RECTANGULAR CONCRETE NO. 10 CATCH BASIN
D-CB-10SB	02-20-20	STANDARD 4' X 4' SQUARE CONCRETE NO. 10 CATCH BASIN
D-CB-12LP	02-20-20	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN FOR USE WITH 6" VERTICAL CURB
D-CB-12LPA		ALTERNATE REINFORCEMENT FOR PRECAST CONCRETE 32" X 32" NO. 12LP CATCH BASIN
D-CB-12P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12RA	01-28-22	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN FOR USE WITH 6" VERTICAL CURB
D-CB-12RB	02-20-20	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN FOR USE WITH 6" VERTICAL CURB

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	1A

KNOX CO. I-75 AT SR-131

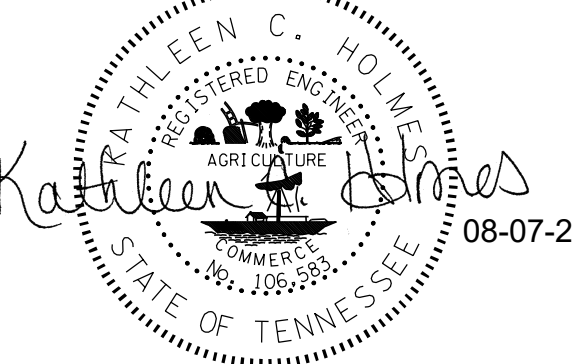
REV. 07/02/2025; ADDED FOOTNOTE REGARDING MULTI-MODAL STANDARD DRAWINGS.

REV. 08/07/2025; REVISED INDEX

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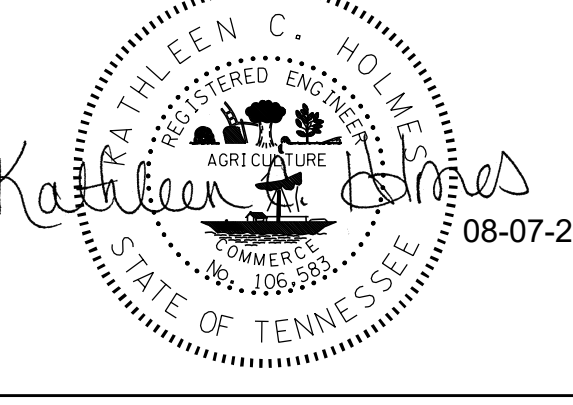
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

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ESTIMATED ROADWAY QUANTITIES				
ITEM NO.		DESCRIPTION	UNIT	QUANTITY 47006-3170-44
40	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-02	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
48	202-08.25	REMOVAL OF MEDIAN BARRIER (EMORY ROAD)	LS	1
1, 25	203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	CY	90,908
38	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	25
25	203-04	PLACING AND SPREADING TOPSOIL	CY	4,999
38	203-05	UNDERCUTTING	CY	200
25	203-06	WATER	MG	305
16	204-08	FOUNDATION FILL MATERIAL	CY	147
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	CY	55
	209-02.07	18" TEMPORARY SLOPE DRAIN	LF	374
2, 3	209-05	SEDIMENT REMOVAL	CY	681
3	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	LF	5845
3	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	LF	1500
3	209-08.07	ROCK CHECK DAM	EACH	219
3	209-08.08	ENHANCED ROCK CHECK DAM	EACH	37
3, 31	209-09.01	SANDBAGS	BAGS	187
3	209-09.03	SEDIMENT FILTER BAG (15'X15')	EACH	8
3	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	4
3	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	119
3, 32	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	SY	189
3	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	16
3	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	28
3	209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	13
3	209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EACH	9
3	209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	43
3	209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EACH	15
3	209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	1
3	209-65.03	TEMPORARY DIVERSION CHANNEL	LF	166
3	209-65.04	TEMPORARY IN STREAM DIVERSION	LF	500
4	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	34339
3, 5, 39	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	2812
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	542
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	2205
36	307-01.21	ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING A-S	TON	1445
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	1564
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	963
	313-03	TREATED PERMEABLE BASE	SY	24746
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	175
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	621
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	76
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	LF	6172
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	698
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	1498
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	8090
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	SY	24746
	604-01.01	CLASS A CONCRETE (ROADWAY)	CY	287
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB	58209
12	604-07.01	RETAINING WALL (RETAINING WALL NO. 1)	SF	1440
11	604-07.02	RETAINING WALL (RETAINING WALL NO. 2)	SF	829
6	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	LF	3881
6, 17	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	LF	1665
6, 18	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	LF	364
46	607-06.06	30" PIPE CULVERT (JACKED-IN-PLACE)	LF	148
6	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	LF	317

ESTIMATED ROADWAY QUANTITIES				
ITEM NO.		DESCRIPTION	UNIT	QUANTITY 47006-3170-44
6	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	LF	306
47	607-08.05	42" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	LF	122
6	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	LF	23
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	7
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	6
	611-02.13	JUNCTION BOX, TYPE 4	EACH	1
	611-05.01	TRENCH DRAIN	LF	105
	611-05.02	12IN PVC PIPE FOR TRENCH DRAINS	LF	53
19	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	21
20	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	907
	611-07.71	48IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
42	611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	7
42	611-09.02	REWORK CATCHBASIN	EACH	3
44	611-10.01	CATCH BASINS, TYPE 10, 0' - 4' DEPTH	EACH	1
44	611-10.02	CATCH BASINS, TYPE 10, 4' - 8' DEPTH	EACH	2
44	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	11
44	611-12.02	CATCH BASINS, TYPE 12, DEPTH > 4' - 8'	EACH	34
44	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	9
44	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	7
44	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
44	611-25.01	CATCH BASINS, TYPE 25, 0' - 4' DEPTH	EACH	1
44	611-25.02	CATCH BASINS, TYPE 25, > 4' - 8' DEPTH	EACH	4
44	611-26.03	CATCH BASINS, TYPE 26, > 8' - 12' DEPTH	EACH	1
44	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	4
44	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	8
44	611-43.02	CATCH BASINS, TYPE 43, > 4' - 8' DEPTH	EACH	2
	621-03.02	18" TEMPORARY DRAINAGE PIPE	LF	45
5	621-03.07	48" TEMPORARY DRAINAGE PIPE	LF	422
	701-01.01	CONCRETE SIDEWALK (4")	SF	22102
	701-02	CONCRETE DRIVEWAY	SF	9023
	701-02.03	CONCRETE CURB RAMP	SF	2909
30	701-03	CONCRETE MEDIAN PAVEMENT	CY	230
	702-01	CONCRETE CURB	CY	134
	702-03	CONCRETE COMBINED CURB AND GUTTER	CY	503
	703-01	PORTLAND CEMENT CONCRETE DITCH PAVING	CY	213
	705-02.10	GUARDRAIL TRANSITION	EACH	2
	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	LF	1791
	705-06.10	GUARDRAIL TERMINAL TRAILING END (TYPE 13) MASH TL3	EACH	4
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	4
	705-06.25	THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	3
	705-06.30	GR TERMINAL (ENERGY ABSORBING) MASH TL-2	EACH	3
	705-10.29	VERTICAL CONCRETE BARRIER WALL FOR BRIDGE PIERS	LF	253
	705-20.20	LOW MAINT CRASH CUSHN NARROW (MASH TL-3)	EACH	2
	706-01	GUARDRAIL REMOVED	LF	386
	707-01.11	CHAIN LINK FENCE (6 FOOT)	LF	1536
	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	15
	707-06.01	REMOVAL OF FENCE (CHAIN LINK)	LF	983
3	707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	LF	4772
14	707-16.01	BIKE/PEDESTRIAN BOX TUBE SAFETY RAIL	LF	110
26	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	703
13	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	357
27	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	528
8	710-02	AGGREGATE UNDERDRAIN (WITH PIPE)	LF	10694
	710-05	LATERAL UNDERDRAIN	LF	420
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	29
	711-05.72	SINGLE SLOPE HALF CONCRETE BARRIER WALL	LF	172

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	2
KNOX CO. I-75 AT SR-131			
REV. 07/02/2025; REVISED ITEM NOS. 607-03.02, 607-05.02, 611-01.02, 611-07.01, 611-07.02, 611-12.01, 611-12.02, 611-14.02, 705-02.10, 705-06.10, 709-05.08. ADDED ITEM NOS. 202-08.25, 407-20.05, 415-01.01, 611-02.13, 611-10.02, 621-03.02, 705-06.10, 706-01, 707-16.01. DELETED ITEM NOS. 415-01.02, 604-01.20, 611-07.03, 611-51.02, 611-52.02, 705-04.03, 706-10.80, 709-05.09.			
REV. 08/07/2025; REVISED ITEM NOS. 607-03.02, 607-08.02, 607-08.05, 611-09.02, 611-12.01, 611-12.02			
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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 47006-3170-44
711-05.77	FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIERS	LF	82
712-01	TRAFFIC CONTROL	LS	1
712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	LF	8132
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	10
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	662
712-04.50	BARRIER RAIL DELINEATOR	EACH	92
712-05.01	WARNING LIGHTS (TYPE A)	EACH	199
712-06	SIGNS (CONSTRUCTION)	SF	748
712-07.03	TEMPORARY BARRICADES (TYPE III)	LF	336
712-08.03	ARROW BOARD (TYPE C)	EACH	4
712-08.12	QUEUE PROTECTION TRUCK	DAY	50
713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	CY	6
713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB	1706
713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB	3495
713-09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 96' - 6") (SIGN NOS. 7 AND 8)	EACH	1
713-09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN 82' - 3") (SIGN NOS. 9 AND 10)	EACH	1
713-09.03	STEEL OVERHEAD SIGN STRUCTURE (SPAN 75'-0") (SIGN NOS. 2 AND 3)	EACH	1
713-09.04	STEEL OVERHEAD SIGN STRUCTURE (SPAN 65'-0") (SIGN NO. 4)	EACH	1
713-11.01	"U" SECTION STEEL POSTS	LB	327
713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB	2308
713-11.21	P POST SLIP BASE	EACH	70
713-13.02	FLAT SHEET ALUMINUM SIGNS (0.08" THICK)	SF	278
713-13.03	FLAT SHEET ALUMINUM SIGNS (0.10" THICK)	SF	905
713-14	EXTRUDED ALUMINUM PANEL SIGNS	SF	2000
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
713-15.02	REMOVAL AND RELOCATION OF SIGNS AND SUPPORTS	EACH	6
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	11
716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	SY	404
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	LF	422
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	31
716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	LF	1209
716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	LF	594
716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	4
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	7
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	20
716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	SF	17
716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	4
716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	SY	1212
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	LF	1266
716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	93
716-05.49	PAINTED PAVEMENT MARKING (8" LINE)	LM	14.1
716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	LF	74448
716-09.97	CONTRAST PAVEMENT SHADOW MARKING 6 INCH	LF	423
716-09.98	CONTRAST PAVEMENT SHADOW MARKING 8 INCH	LF	202
716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	LM	3.8
716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	LM	15.0
717-01	MOBILIZATION	LS	1
722-01.02	FIELD OFFICE (TYPE 2)	LS`	1
730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	3
740-06.01	GEOMEMBRANE	S.Y.	8
740-10.03	GEOTEXTILE (TYPE III, EROSION CONTROL)	S.Y.	3220
740-10.04	GEOTEXTILE (TYPE IV) (STABILIZATION)	S.Y.	36
740-11.02	TEMPORARY SEDIMENT TUBE (12 IN)	LF	25820
801-01	SEEDING (WITH MULCH)	UNIT	25760
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2505

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 47006-3170-44
801-01.38	NATIVE SEED MIX FINAL STABILIZATION OF SLOPES	UNIT	62
801-01.65	TEMPORARY MULCH	UNIT	2701
801-02	SEEDING (WITHOUT MULCH)	UNIT	2191
801-02.15	FERTILIZER	TON	27
801-03	WATER (SEEDING & SODDING)	MG	2476
801-07	SEEDING (SUPPLEMENTAL APPLICATION)	LB	2329
801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TONS	18
803-01	SODDING (NEW SOD)	SY	21817
805-01.01	TURF REINFORCEMENT MAT (CLASS I)	SY	2452
805-01.03	TURF REINFORCEMENT MAT (CLASS III)	SY	260
805-12.02	EROSION CONTROL BLANKET (TYPE II)	SY	30,256
806-02.03	PROJECT MOWING	CYCL	12

FOOTNOTES

- 1 INCLUDES 1,868 CY FOR TEMPORARY BERM. CONTRACTOR MAY BE REQUIRED TO STOCKPILE MATERIAL FOR PHASED CONSTRUCTION.
- 2 MAY BE INCREASED OR DECREASED BY THE T.D.O.T. MANAGER.
- 3 SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- 4 INCLUDES 2,281 TONS FOR MAINTENANCE OF TRAFFIC.
- 5 FOR EROSION CONTROL
- 6 THE COST OF TYING PROPOSED PIPES INTO EXISTING CATCH BASINS WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT INCLUDED IN THE COST OF THE PIPE. SEE STD DWG NO. D-PB-1 AND D-PB-2 FOR ADDITIONAL PIPE DETAILS.
- 7 THIS ITEM SHALL BE A PORTABLE ENERGY ABSORGING 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 DRAWINGS.
- 8 WHERE UNDERDRAIN TIES TO PROPOSED DRAINAGE SYSTEM, THE COST WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 710-02, AGGREGATE UNDERDRAIN (WITH PIPE).
- 9 TWO TYPE "A" WARNING LIGHTS TO BE MOUNTED ON EACH "ROAD CLOSED" SIGN.
- 10 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.
- 11 RETAINING WALL SHALL BE A SOLDIER PILE RETAINING WALL, SEE RETAINING WALL DESIGN PLANS R2 THROUGH R2-5
- 12 RETAINING WALL SHALL BE A GRAVITY WALL, SEE SHEET R-1 AND STANDARD DRAWING WS-G-1.
- 13 INCLUDES 7 TONS FOR PIPE OUTLET APRONS AND 350 TONS FOR EROSION CONTROL.
- 14 TO BE INSTALLED ON TOP OF RETAINING WALL 2. SEE RETAINING WALL PLANS R2-1 THROUGH R2-5.
- 15 TO BE USED FOR THE CONSTRUCTION OF TEMPORARY SIGNALIZED INTERSECTIONS AT EMORY ROAD AND RAMPS B/C, AND EMORY ROAD AND RAMPS A/D, AND EMORY ROAD AND CONNOR ROAD DURING THE VARIOUS PHASES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. ITEM INCLUDES THE INSTALLATION AND REMOVAL OF WOOD POLES, SPAN WIRE, TETHER WIRE IF NEEDED, SIGNAL HEADS, ADJUSTMENT OF SIGNAL HEADS, RADAR DETECTION AND PRE-EMPTION DEVICES, CONTROLLER CABINETS, PULL BOXES, CONDUIT, CONDUCTOR CABLE FOR SIGNAL HEADS, GUYING ANCHORS, AND ANY OTHER SIGNAL RELATED EQUIPMENT NEEDED TO INSURE A FULLY OPERATIONAL SIGNALIZED INTERSECTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PROPOSED EQUIPMENT THAT MAY BE USED FROM DAMAGES AT ALL TIMES DURING THE TEMPORARY USE THEREOF. FOR PLACEMENT SEE SHEETS T4F AND T6. THE PAYMENT OF EACH REPRESENTS ALL ADJUSTMENTS NECESSARY FOR THE INTERSECTION PER PHASE.
- 16 FOR EXISTING PIPES TO BE LEFT IN PLACE AND ABANDONED.
- 17 INCLUDES 70 LF FOR CROSS-DRAIN ON RAMP C AND 1,595 LF FOR STORM DRAINAGE PIPES.
- 18 INCLUDES 111 LF FOR CROSS-DRAIN ON RAMP D AND 253 LF FOR STORM DRAINAGE PIPES.
- 19 INCLUDES 7 CY FOR CROSS-DRAIN HEADWALLS AND 14 CY FOR STORM DRAINAGE SYSTEM ENDWALLS.
- 20 INCLUDES 326 LB FOR CROSS-DRAIN HEADWALLS AND 581 LB FOR STORM DRAINAGE SYSTEM ENDWALLS.
- 21 INCLUDES 2,701 UNITS FOR EROSION CONTROL AND 1,217 UNITS FOR SLOPE STABILIZATION.
- 22 INCLUDES 24 UNITS FOR DITCHES, 1,350 UNITS FOR EROSION CONTROL, AND 817 UNITS FOR SLOPE STABILIZATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	2-1

KNOX CO. I-75 AT SR-131

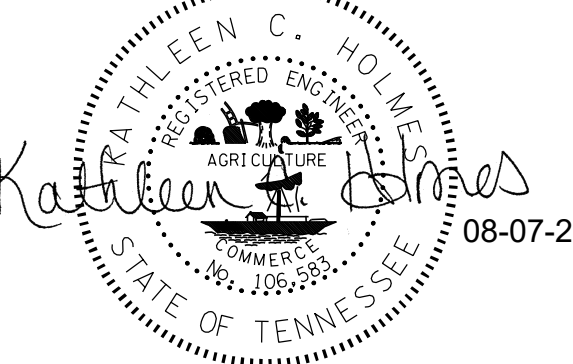
REV. 07/02/2025; REVISED ITEM NOS. 712-08.12, 713-01.02, 713-06, 713-14, 713-16.01. ADDED ITEM NOS. 711-05.77, 713-09.03, 713-09.04, 725-21.07. DELETED ITEM NOS. 712-08.10, 712-08.14, 713-15.11, 713-15.12, 713-17.02, 713-17.30. REVISED FOOTNOTES 17, 18,19, AND 20.

REV. 08/07/2025; DELETED ITEM 725-21.07. ADDED ITEM 722-01.02.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

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FOOTNOTES (CONT.)

- 23 INCLUDES 9291 SY FOR DITCHES AND 12,526 SY FOR SLOPES.
- 24 CONTRACTOR SHALL USE THE EXTRUDED OR RIBBON METHOD FOR APPLICATION.
- 25 SEE GRADING SPECIAL NOTES ON SHEET 2D.
- 26 INCLUDES 363 TONS FOR EROSION CONTROL AND 340 TONS FOR GEOTECH. GEOTECH QUANTITY PROVIDED BY TDOT REGION 1 GEOTECHNICAL SECTION, SEE GEOTECH SHEETS FOR MORE INFORMATION.
- 27 FOR PIPE APRONS.
- 28 INCLUDES 1,620 M.G. FOR EROSION CONTROL AND 856 M.G. FOR GRADING.
- 29 THE COST OF ANY NECESSARY LIME TO BE USED IN CONJUCTION WITH THE SUPPLEMENTAL FERTILIZER IS TO BE INCLUDED IN THE COST OF THE SUPPLEMENTAL FERTILIZER. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 30 FOR MEDIAN PAVEMENT ON EMORY ROAD. SEE TYPICAL SECTION SHEETS 2B - 2B3 AND PROPOSED LAYOUT SHEETS 4B - 6B FOR LOCATIONS.
- 31 ITEM INCLUDES 75 BAGS FOR ROADWAY EROSION CONTROL, 12 BAGS FOR ITS INSTALLATION PROVIDED BY THE ITS ENGINEER (SEE ITS PLANS), AND 100 BAGS FOR TEMPORARY TRAFFIC CONTROL TO BE PLACED . BEHIND PORTABLE BARRIER RAIL INSTALLED ON RADIUS.
- 32 ITEM INCLUDES 75 SY FOR ROADWAY EROSION CONTROL, AND 114 SY FOR ITS INSTALLATION PROVIDED BY THE ITS ENGINEER.
- 33 INCLUDES 25760 LF FOR ROADWAY EROSION CONTROL, AND 60 LF FOR ITS INSTALLATION PROVIDED BY THE ITS ENGINEER.
- 34 TO ENHANCE PAVEMENT MARKINGS ON MULTI-LANE CONCRETE ROADS, BRIDGES AND RAMPS. SEE TDOT SPECIAL PROVISION 716CPM FOR DETAILS.
- 35 INCLUDES 14.1 LM FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION OVER THE PAINTED PAVEMENT ON EMORY ROAD SHIFTS, AND 0.9 LM FOR FINAL PERMANENT PAVEMENT MARKINGS.
- 36 INCLUDES 1,398 TONS FOR MAINTENANCE OF TRAFFIC.
- 37 ITEM INCLUDES 3 PORTABLE MESSAGE BOARDS TO BE USED FOR STOPPED TRAFFIC ON I-75.
- 38 QUANTITY PROVIDED BY TDOT REGION 1 GEOTECHNICAL SECTION, SEE GEOTECH SHEETS FOR MORE INFORMATION
- 39 INCLUDES 533 TONS FOR EROSION CONTROL, AND 9 TONS FOR GEOTECH. GEOTECH QUANTITIES PROVIDED BY TDOT REGION 1 GEOTECHNICAL SECTION, SEE GEOTECH SHEETS FOR MORE INFORMATION.
- 40 THIS ITEM INCLUDES REMOVAL OF TABULATED ITEMS AND DOES NOT INCLUDE REMOVAL OF ANY BUILDINGS. SEE SHEET 2F7 FOR TABULATION OF ITEMS TO BE REMOVED, AND SHEET 2M FOR PIPE REMOVAL DETAILS.
- 41 WHERE RADIUS IS LESS THAN 230-FT, 10-FT PORTABLE CONCRETE BARRIERS SHALL BE USED PER STANDARD DRAWING TWZ-PCB-1.
- 42 CONTRACTOR TO FIELD MEASURE AND ADJUST STRUCTURES TO FINAL GRADE. ALL COSTS ASSOCIATED WITH MODIFYING THE EXISTING CATCH BASIN INCLUDING ALL SURVEY, LABOR, EQUIPMENT, AND MATERIALS ARE TO BE INCLUDED.
- 43 FOR REMOVAL OF SPRAY THERMO ON EMORY AND PAVEMENT MARKING REMOVALS ON RAMPS.
- 44 TO INCLUDE ALL COSTS ASSOCIATED WITH TEMPORARY CAPPING OF DRAINAGE STRUCTURES DURING CONSTRUCTION, INCLUDING MATERIALS AND LABOR.
- 45 INCLUDES 35 L.F. FOR PERMANENT PAVEMENT MARKING, AND 1231 L.F. FOR TEMPORARY TRAFFIC CONTROL.
- 46 TO BE 30" CONCRETE PIPE (CLASS IV). SEE SPECIAL NOTES SHEETS 2D1 AND 2D2.
- 47 TO BE 42" CONCRETE PIPE (CLASS IV). SEE SPECIAL NOTES SHEETS 2D1 AND 2D2.
- 48 ITEM INCLUDES REMOVAL OF 123 LF OF MEDIAN WALL ALONG WB2-EMORY AND 118 LF OF MEDIAN, WALL ALONG EB-EMORY, AND REMOVAL OF TWO CRASH CUSHIONS IN MEDIAN OF EMORY UNDER I-75 BRIDGE. SEE SHEET 5B FOR LOCATIONS.
- 49 INCLUDES SIGN NOS. 7A, 7B, 7C, 64A, 67A, AND 67B. SEE SHEETS 38, 40, AND 47.
- 50 FIELD OFFICE TO BE LOCATED OFF THE SOUTH BACKAGE ROAD WITHIN EXISTING ROW SUCH THAT IT WILL NOT IMPEDE WITH THE CONSTRUCTION OR FUNCTION OF THE BACKAGE ROAD. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THIS FACILITY AS SOON AS POSSIBLE IN PHASE 1. A LOCATION FOR THE PLACEMENT OF THE FIELD OFFICE SHOULD BE DETERMINED BY THE CONTRACTOR AND A PLAN VIEW LAYOUT SUBMITTED TO THE PROJECT TEAM LEAD WITHIN 14 DAYS OF THE PRE-CONSTRUCTION CONFERENCE FOR REVIEW AND APPROVAL BY THE TDOT DISTRICT MANAGER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	2-2

KNOX CO. I-75 AT SR-131

REV. 07/02/2025; REVISED FOOTNOTES 37, AND 47. ADDED FOOTNOTES 48 AND 49.

REV. 08/07/2025; REVISED FOOTNOTES 46 AND 47. ADDED FOOTNOTE 50.

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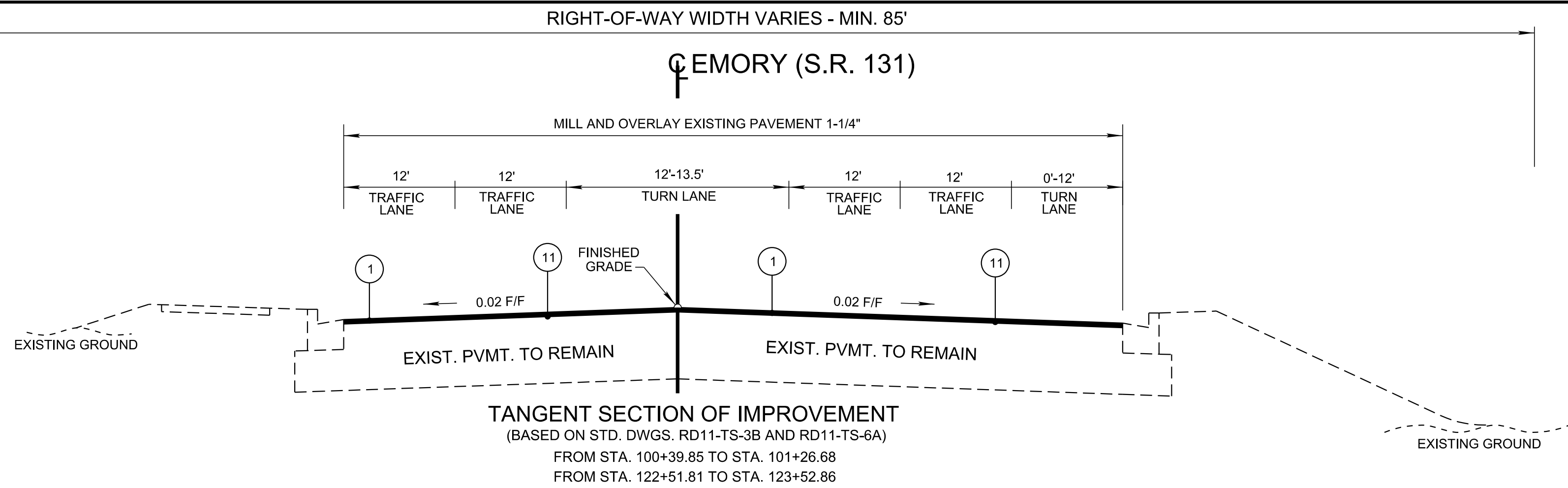
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

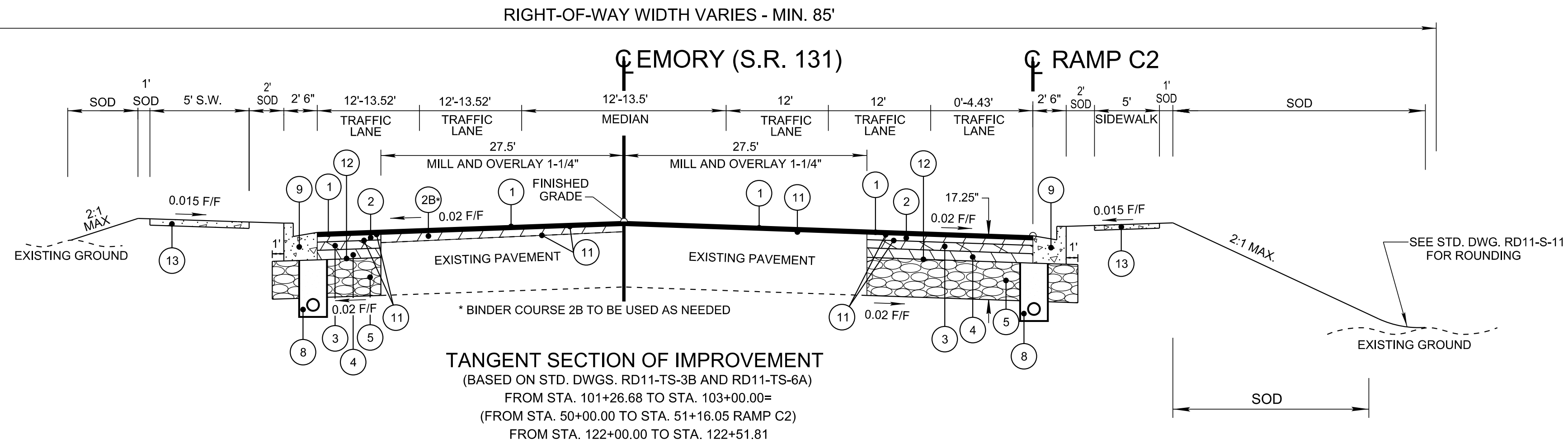
ESTIMATED
ROADWAY
QUANTITIES

NOTE: SEE SHEET 2B8 FOR TYPICAL SECTION KEY MAP

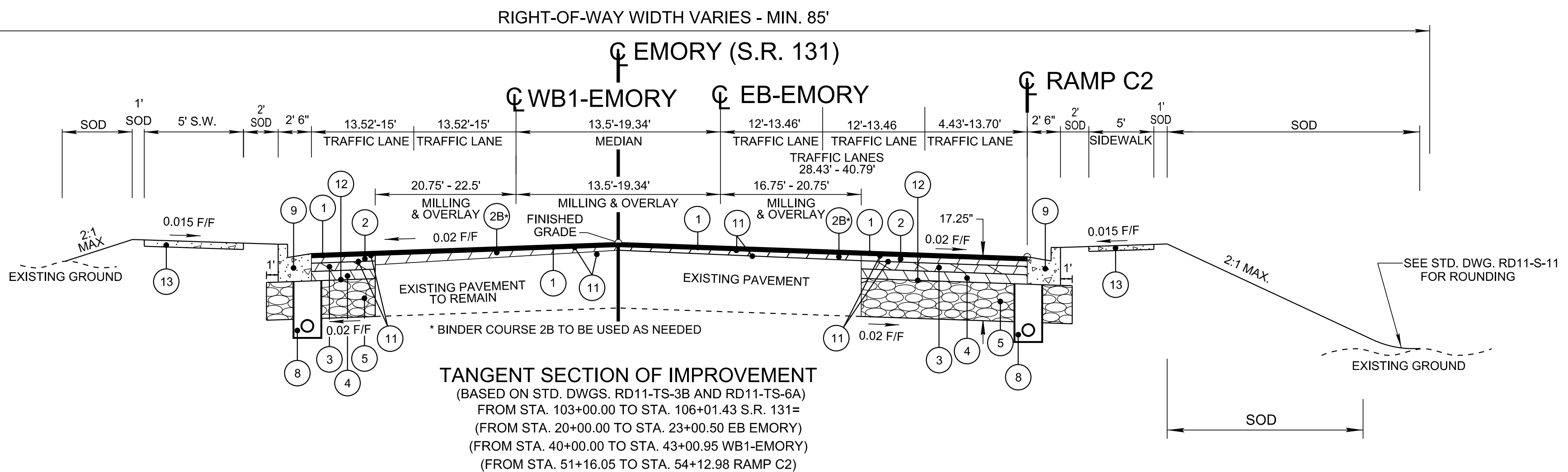
TYPICAL SECTION ①



TYPICAL SECTION ②



TYPICAL SECTION ③



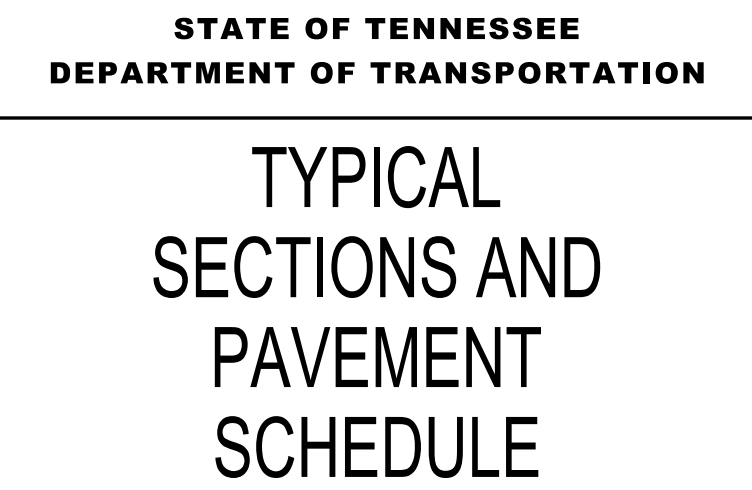
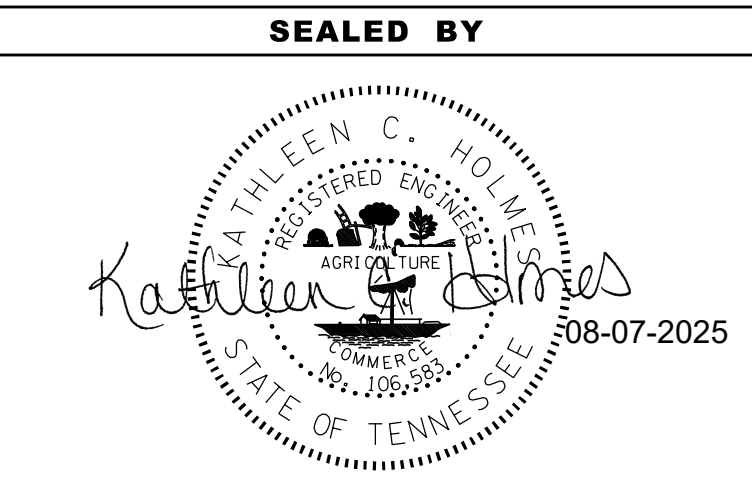
PROPOSED PAVEMENT SCHEDULE

① BITUMINOUS SURFACING (ROADWAY) @ 1-1/4" THICK (APPROX. 132.5 LBS/Sq Yd) 411-02.10 ASPHALT CONCRETE SURFACE MIX (PG70-22) (BPMB-HM) GRADING D	③ BITUMINOUS BASE (ROADWAY) @ 3" THICK (APPROX. 345 LBS/Sq Yd) 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	⑥ CONCRETE SURFACING COURSE PORTLAND CEMENT CONCRETE SURFACING @ 10" THICK THICK ON ROADWAYS 501-01.03 PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	⑪ TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD)
①A BITUMINOUS SURFACING (ROADWAY) @ 1-1/4" THICK (APPROX. 132.5 LBS/Sq Yd) 411-01.10 ASPHALT CONCRETE SURFACE MIX (PG64-22) (BPMB-HM) GRADING D		⑦ BITUMINOUS BINDER COURSE TREATED PERMEABLE BASE @ 4" THICK UNDER ROADWAY 313-03 TREATED PERMEABLE BASE	⑫ PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (TC) (RATE 0.30-0.35 GAL/YD) 402-02 AGGREGATE FOR COVER MATERIAL (PC)(RATE 8-12 LB/YD)
② BITUMINOUS BINDER (ROADWAY) @ 2" THICK (APPROX. 226 LBS/Sq Yd) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	④ BITUMINOUS BASE (ROADWAY) @ 3" THICK (APPROX. 318 LBS/Sq Yd) 307-01.21 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A-S	⑧ UNDERDRAIN 710-02 AGGREGATE UNDERDRAIN W/PIPE ⑨ TYPE 6-30 NONMOUNTABLE CONCRETE COMBINED CURB & GUTTER 702-03 CONCRETE COMBINED CURB & GUTTER (D=9") SEE STD. DWG. RP-VC-10	⑬ SIDEWALK 701-01.01 CONCRETE SIDEWALK (4")
②A BITUMINOUS BINDER (SHOULDER) @ 2" THICK (APPROX. 226 LBS/Sq Yd) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	⑤ MINERAL AGGREGATE BASE - 8" DEPTH (ROADWAY) (FULL DEPTH UNDER SHOULDERS) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING D	⑨A TYPE 6-30 NONMOUNTABLE CONCRETE COMBINED CURB & GUTTER 702-03 CONCRETE COMBINED CURB & GUTTER (D=6") SEE STD. DWG. RP-VC-11	⑭ TYPE 6-30 SLOPED CONCRETE COMBINED CURB AND GUTTER 702-03 CONCRETE COMBINED CURB & GUTTER (D=10"); SEE STD. DWG. RP-SC-1
②B BITUMINOUS BINDER (SHOULDER) @ 2"-4" THICK (APPROX. 0 - 452 LBS/Sq Yd) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	⑤A MINERAL AGGREGATE BASE - 6" DEPTH (ROADWAY) (FULL DEPTH UNDER SHOULDERS) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING D	⑩ CONCRETE CURB 702-01 CONCRETE CURB 6" DETACHED SLOPING (STD. DWG. RP-SC-1)	⑮ CONCRETE MEDIAN PAVEMENT (MEDIAN ISLANDS) 4" 701-03 CONCRETE MEDIAN PAVEMENT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	2B
PS&E	2025	NH/STP-M-I-75-3(192)	2B

KNOX CO. I-75 AT SR-131

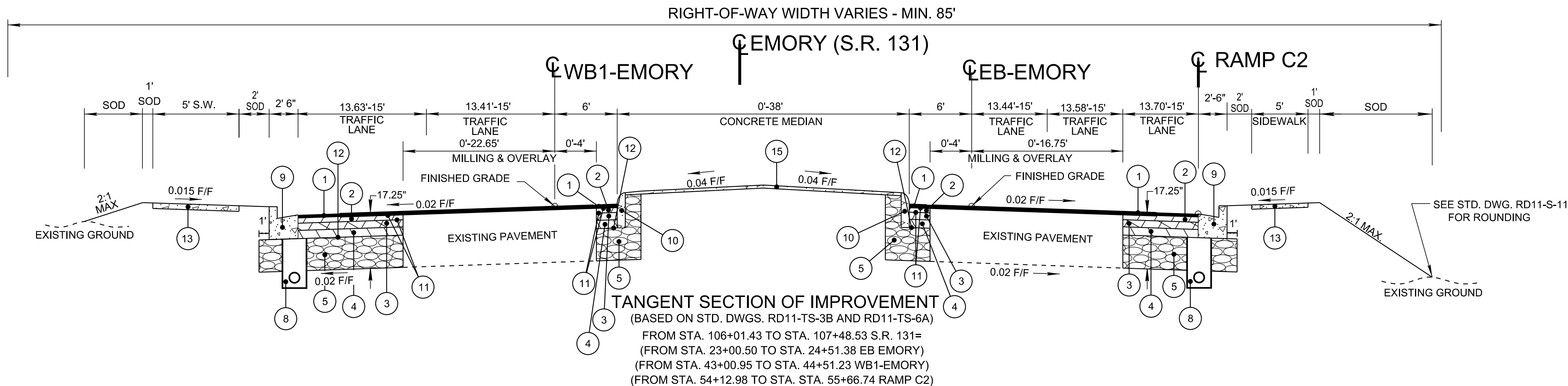
REV. 08/07/2025; REVISED TYPICAL SECTIONS 2 AND 3. AND PAVEMENT SCHEDULE ITEM 2B. DELETED PAVEMENT SCHEUDLE ITEM 3A.



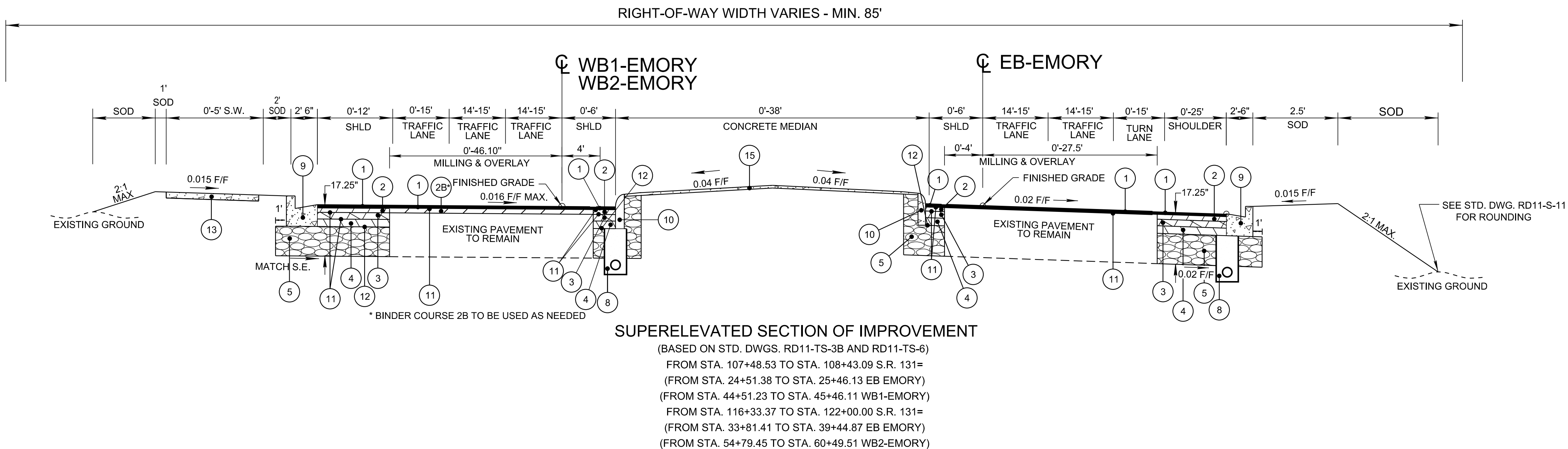
SEE SHEET 2B FOR
PAVEMENT SCHEDULE

NOTE: SEE SHEET 2B8 FOR TYPICAL
SECTION KEY MAP

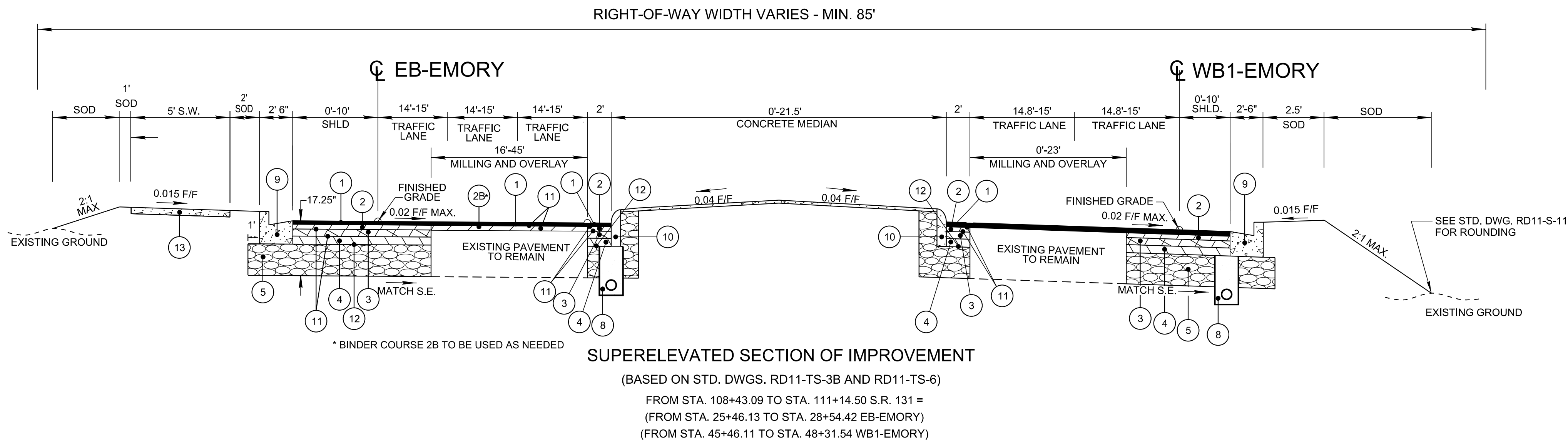
TYPICAL SECTION ④



TYPICAL SECTION ⑤



TYPICAL SECTION ⑥

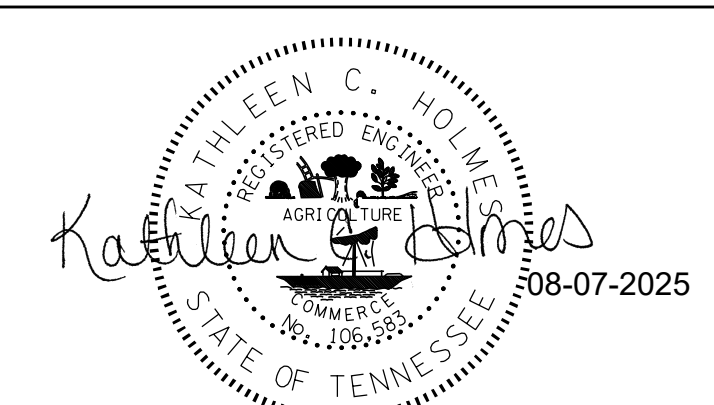


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	2B1
PS&E	2025	NH/STP-M-I-75-3(192)	2B1

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; REVISED TYPICAL
SECTIONS 5 AND 6.

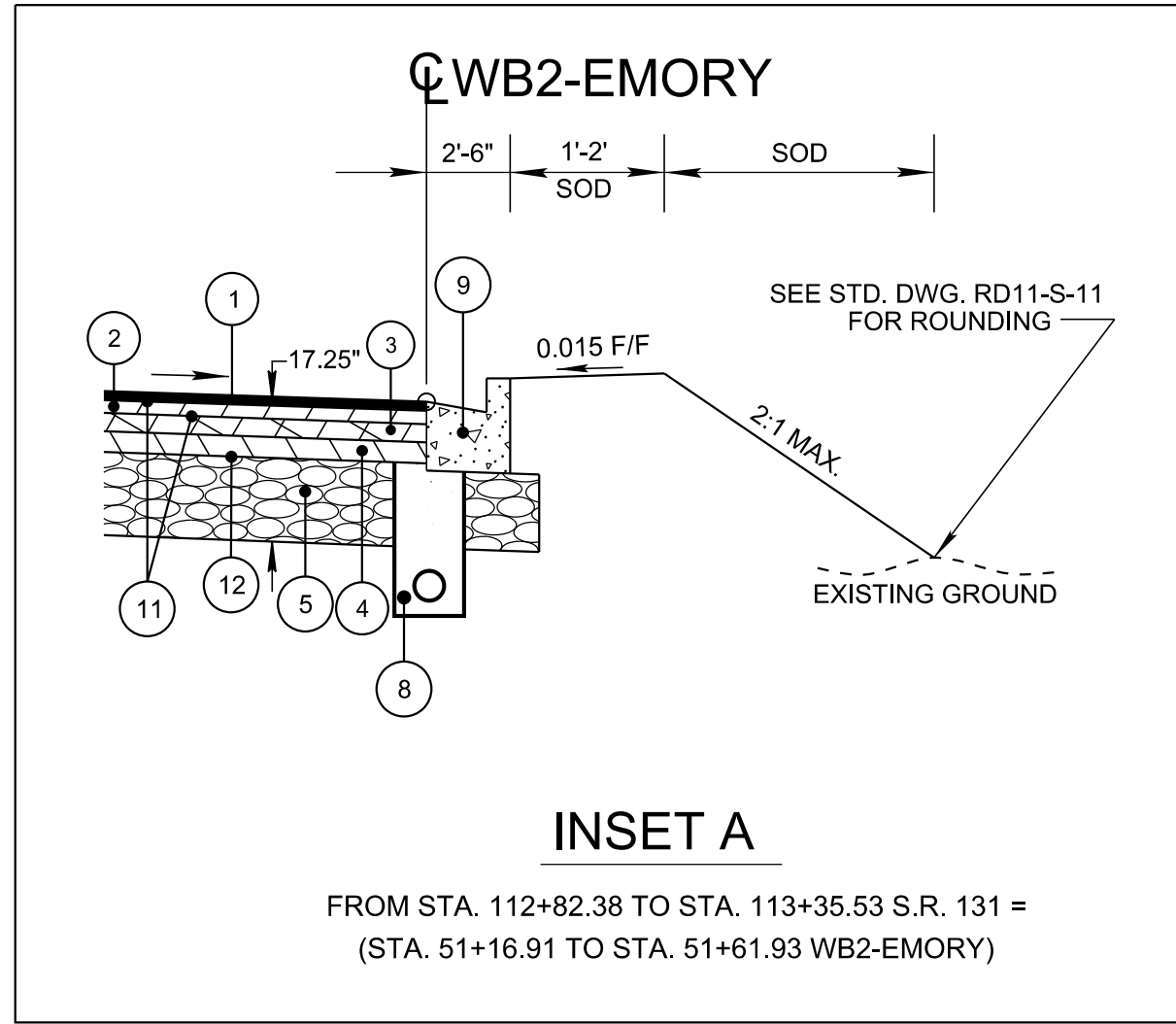
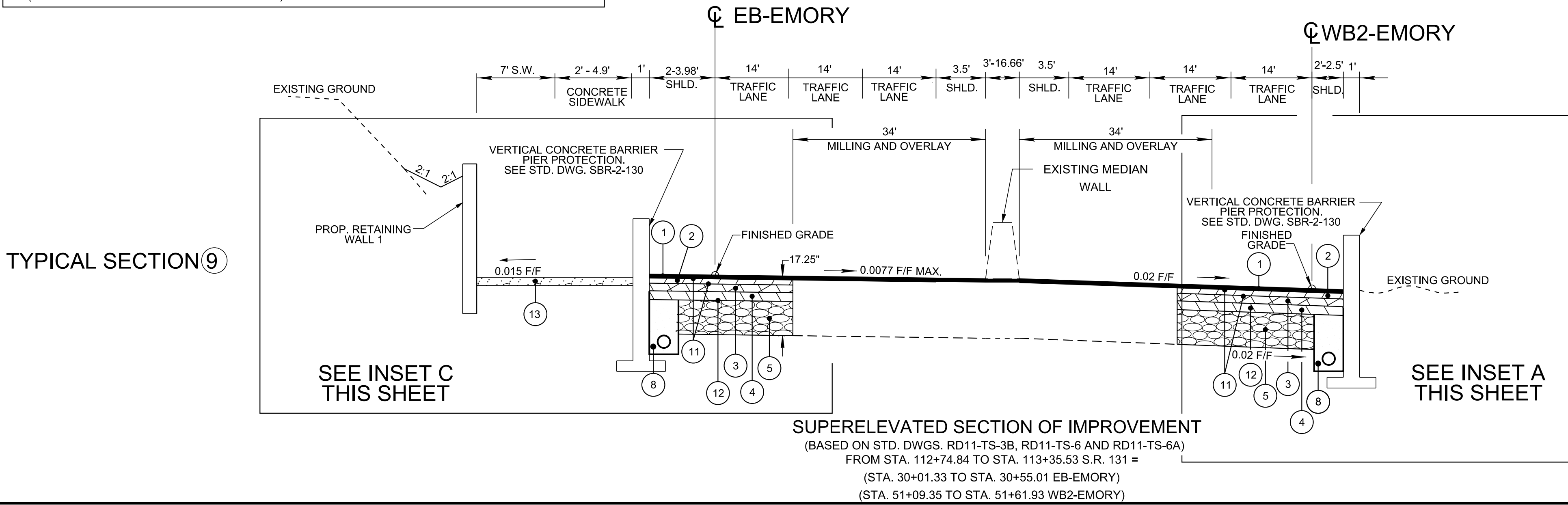
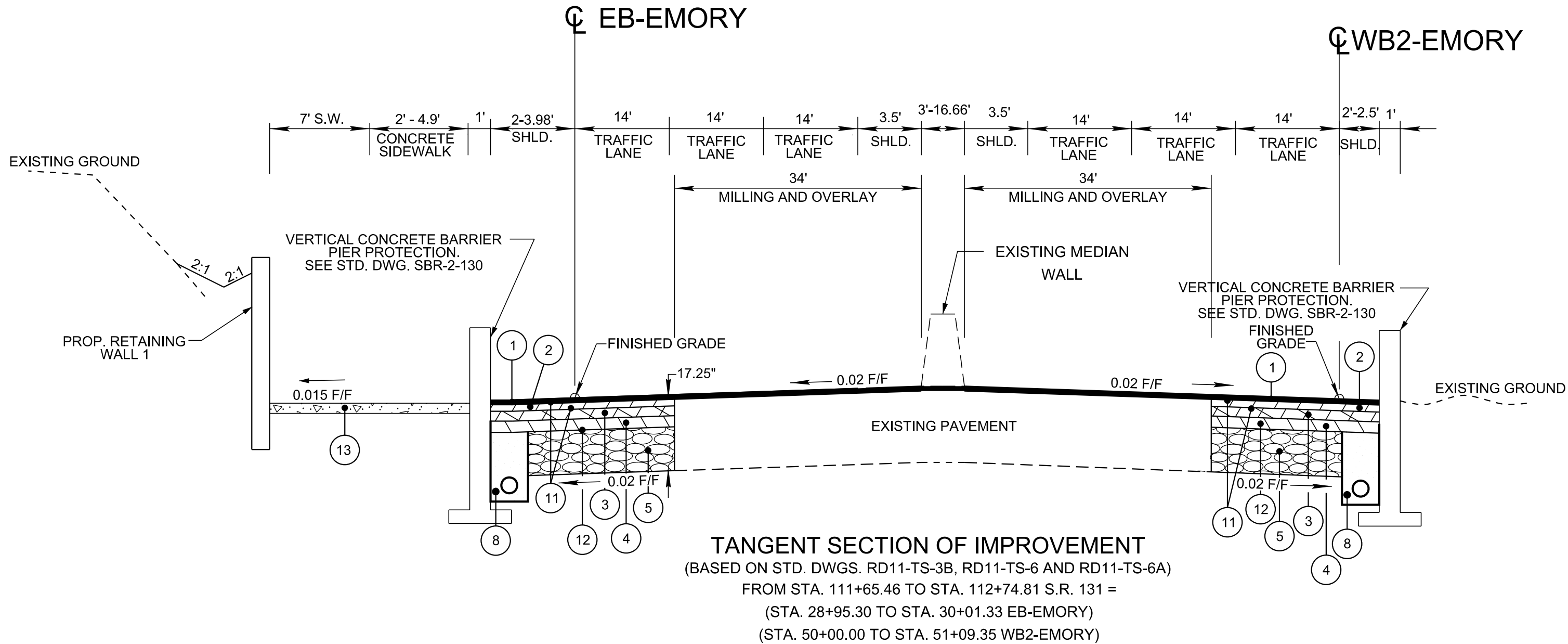
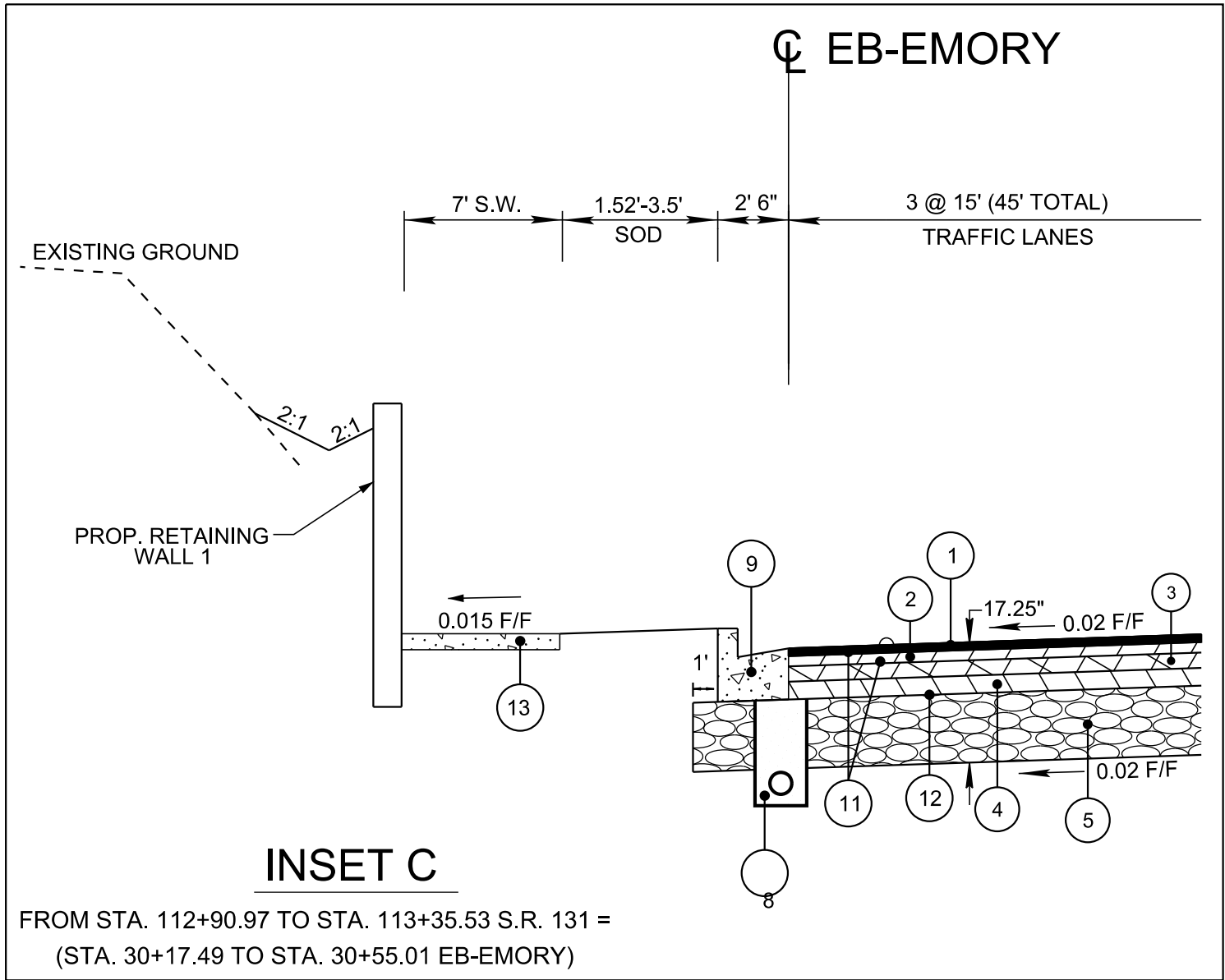
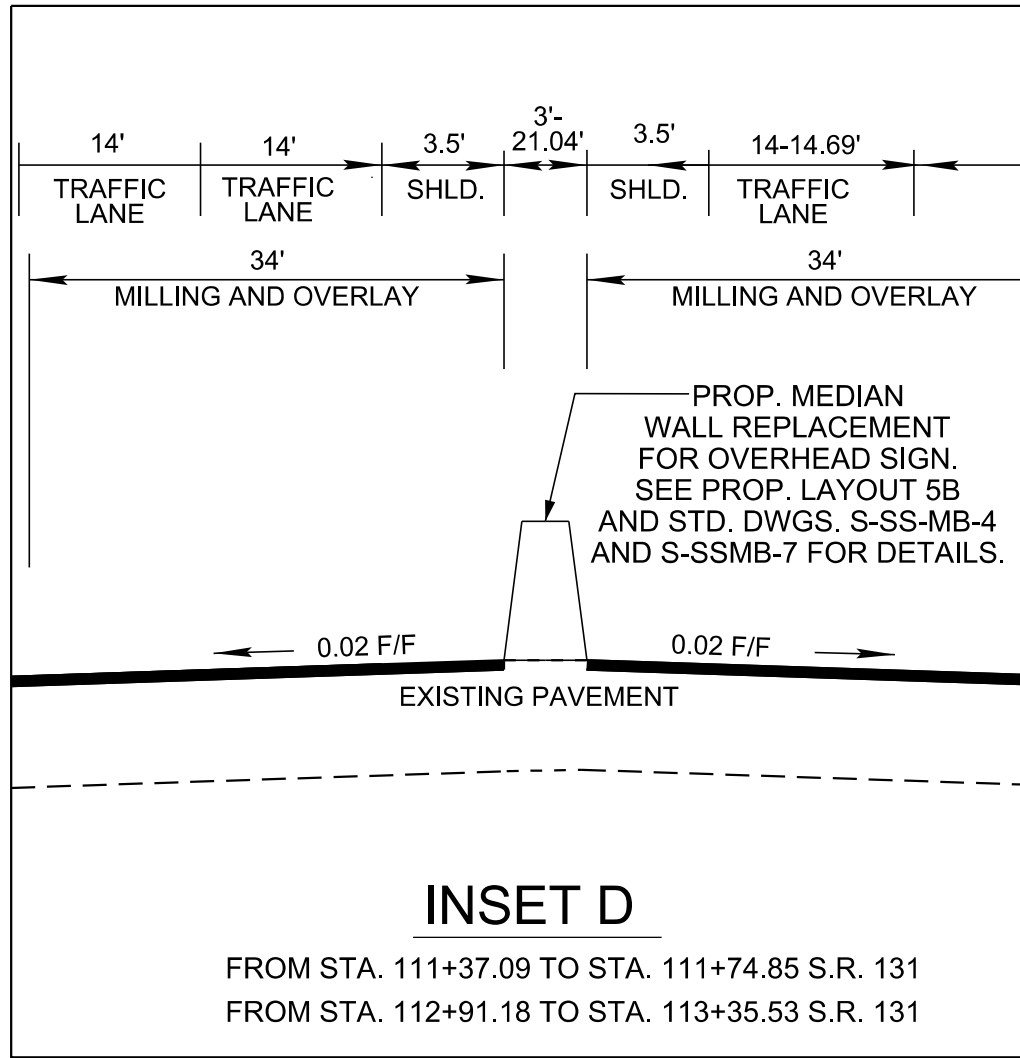
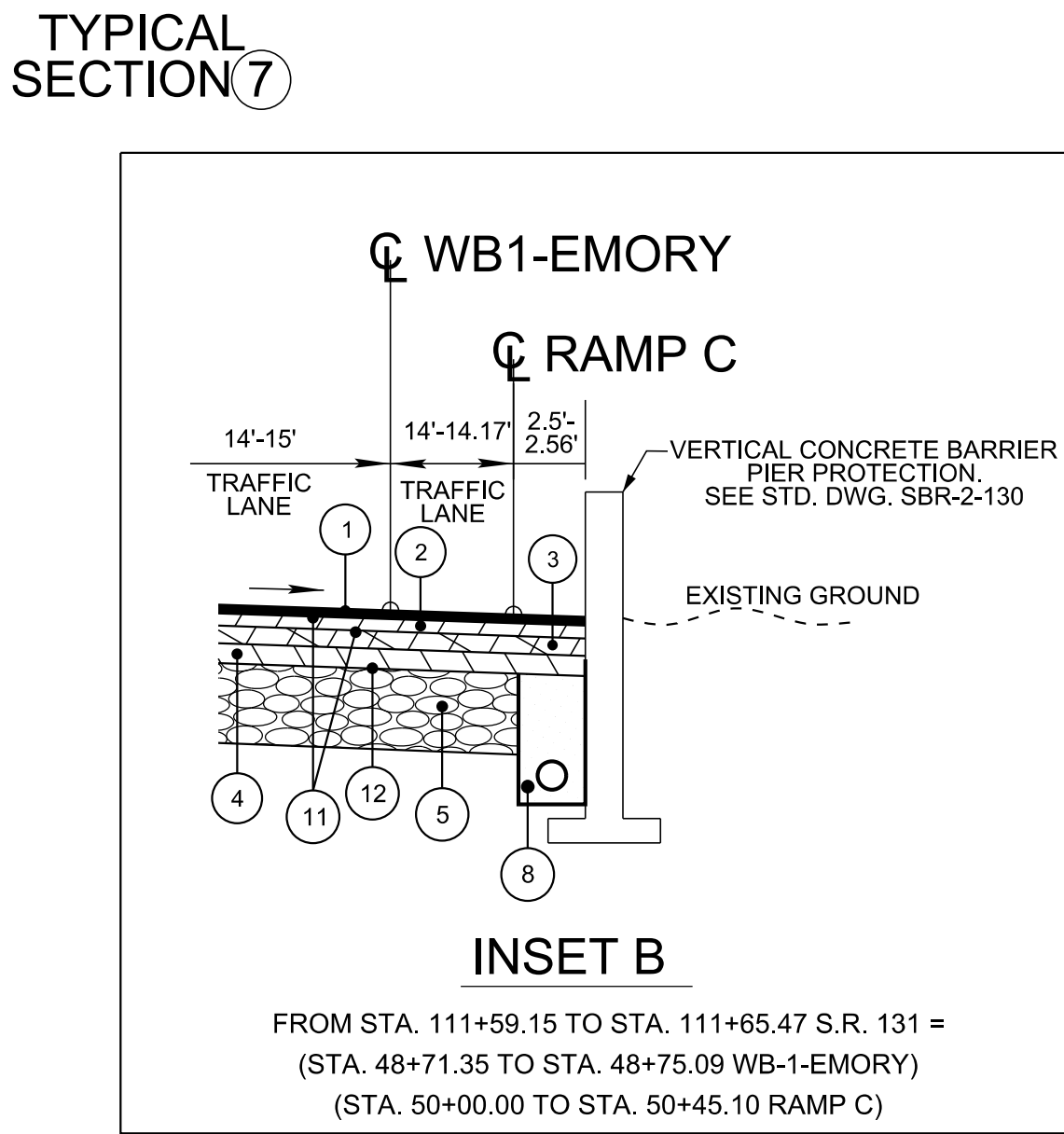
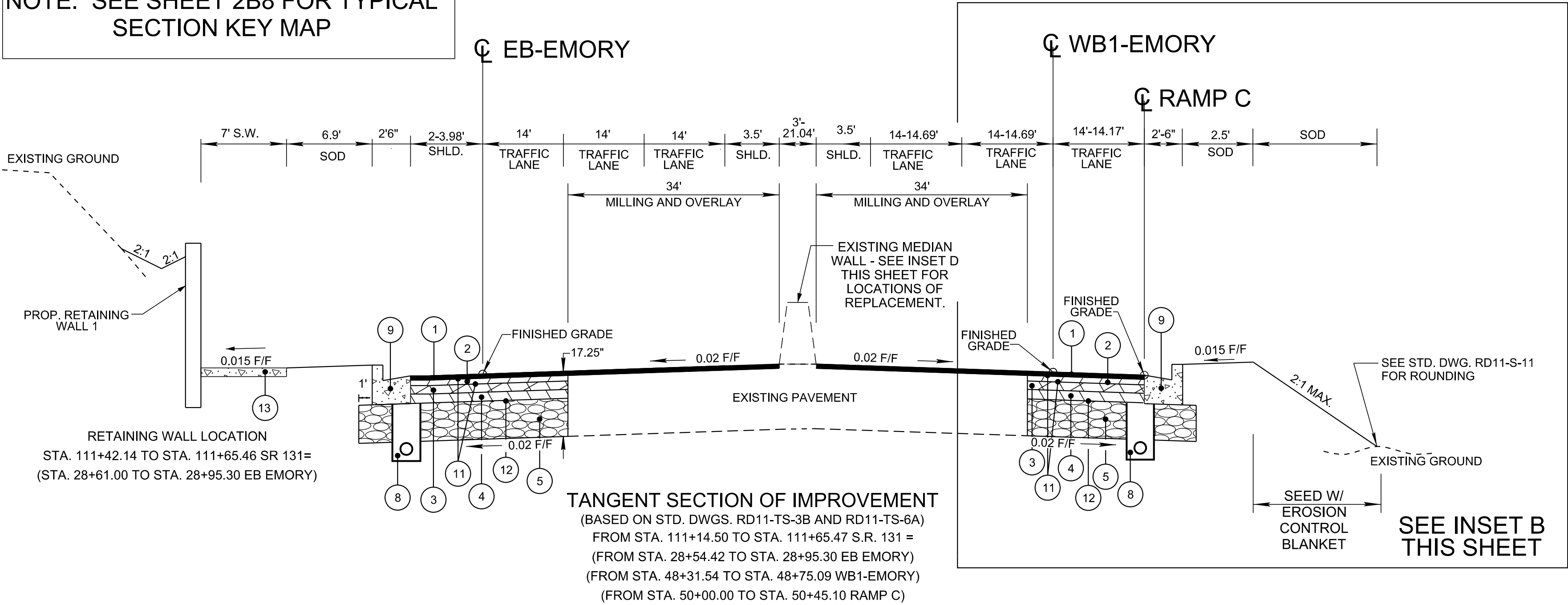
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

NOTE: SEE SHEET 2B8 FOR TYPICAL SECTION KEY MAP



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	2B2
PS&E	2025	NH/STP-M-I-75-3(192)	2B2

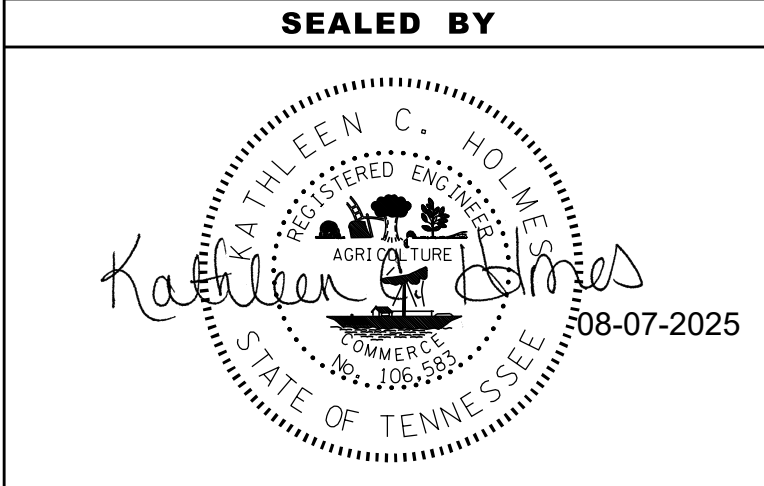
KNOX CO. I-75 AT SR-131

REV. 07/02/2025; REVISED TYPICAL SECTION 7 AND ADDED INSET D.

REV. 08/07/2025; REVISED TYPICAL SECTIONS 8 AND 9.

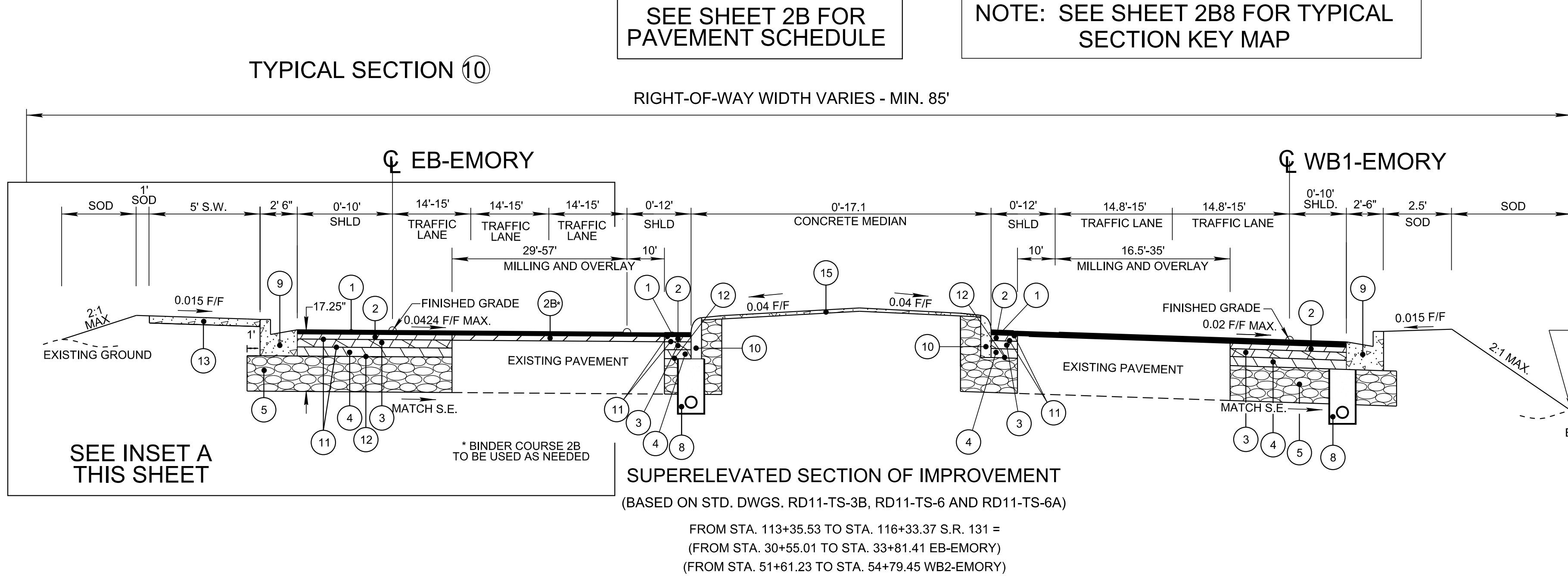
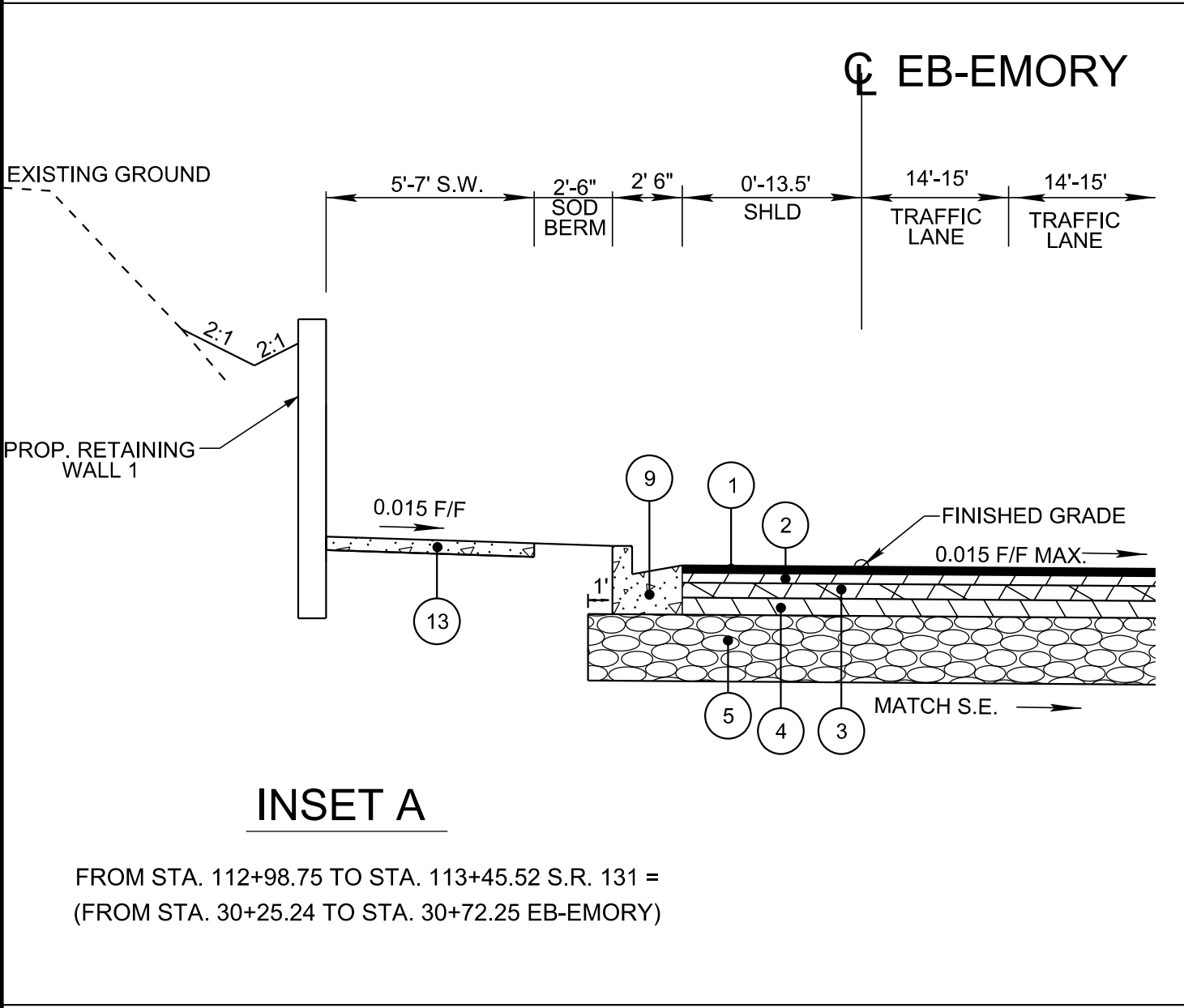
TYPICAL SECTION 8

SEE SHEET 2B FOR PAVEMENT SCHEDULE

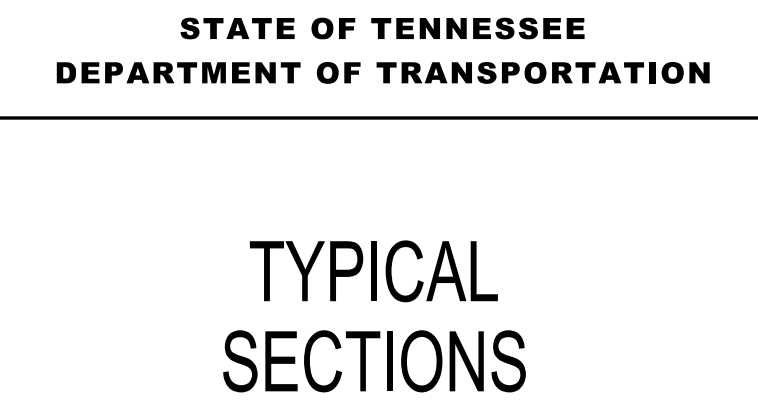
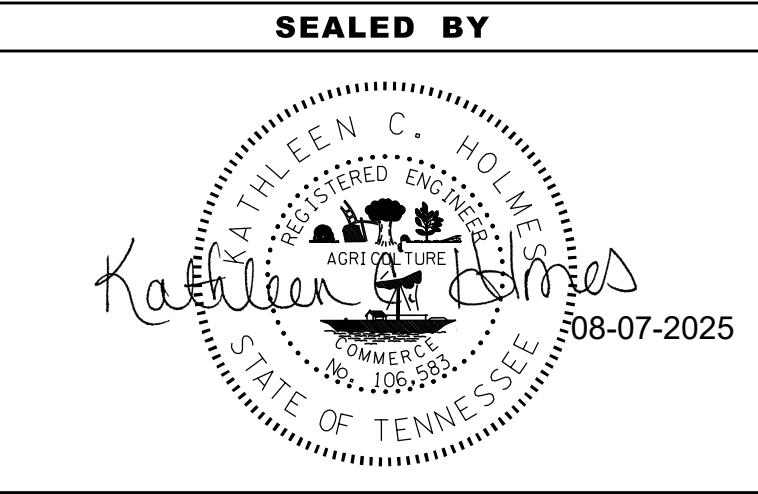
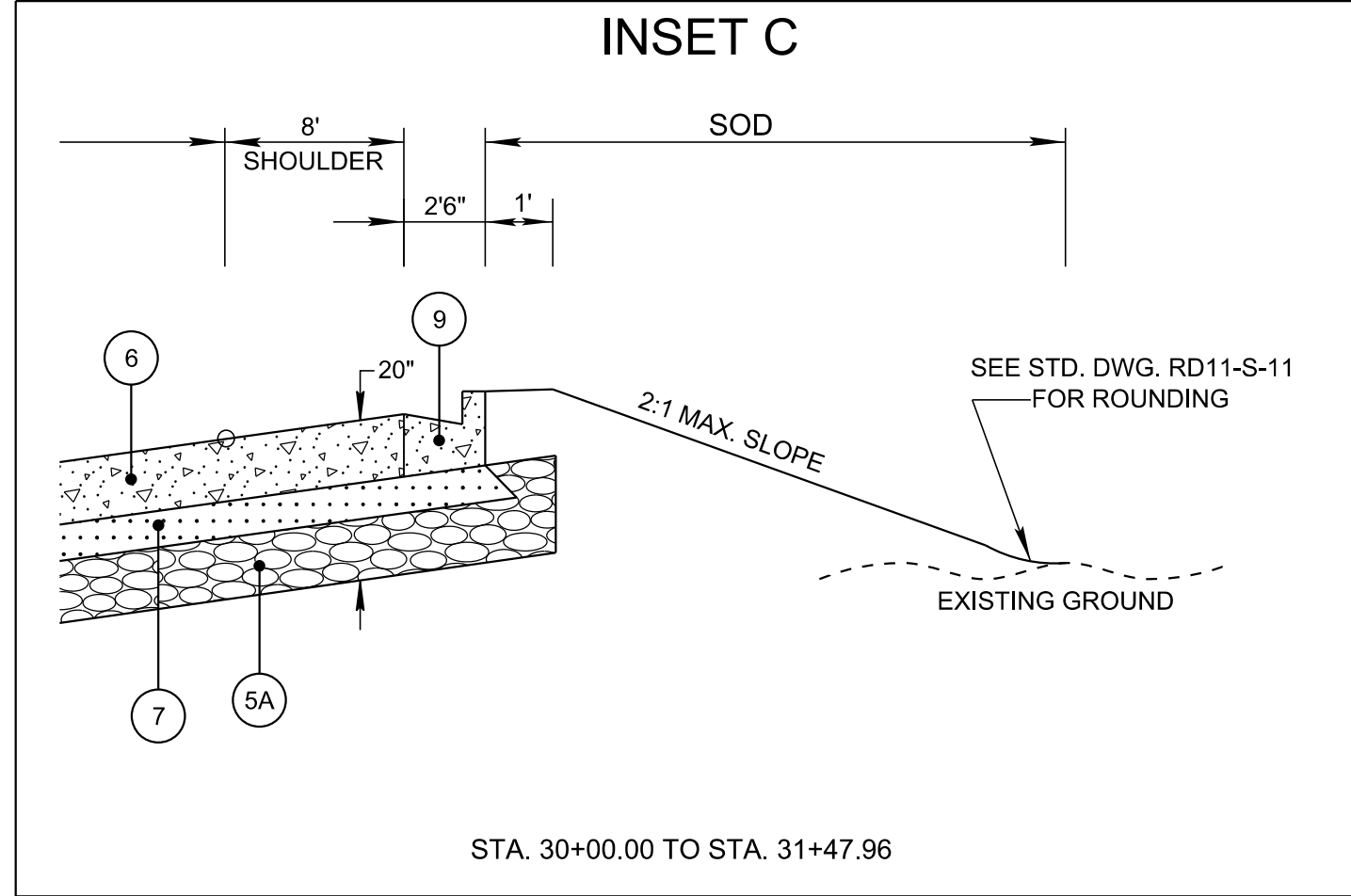
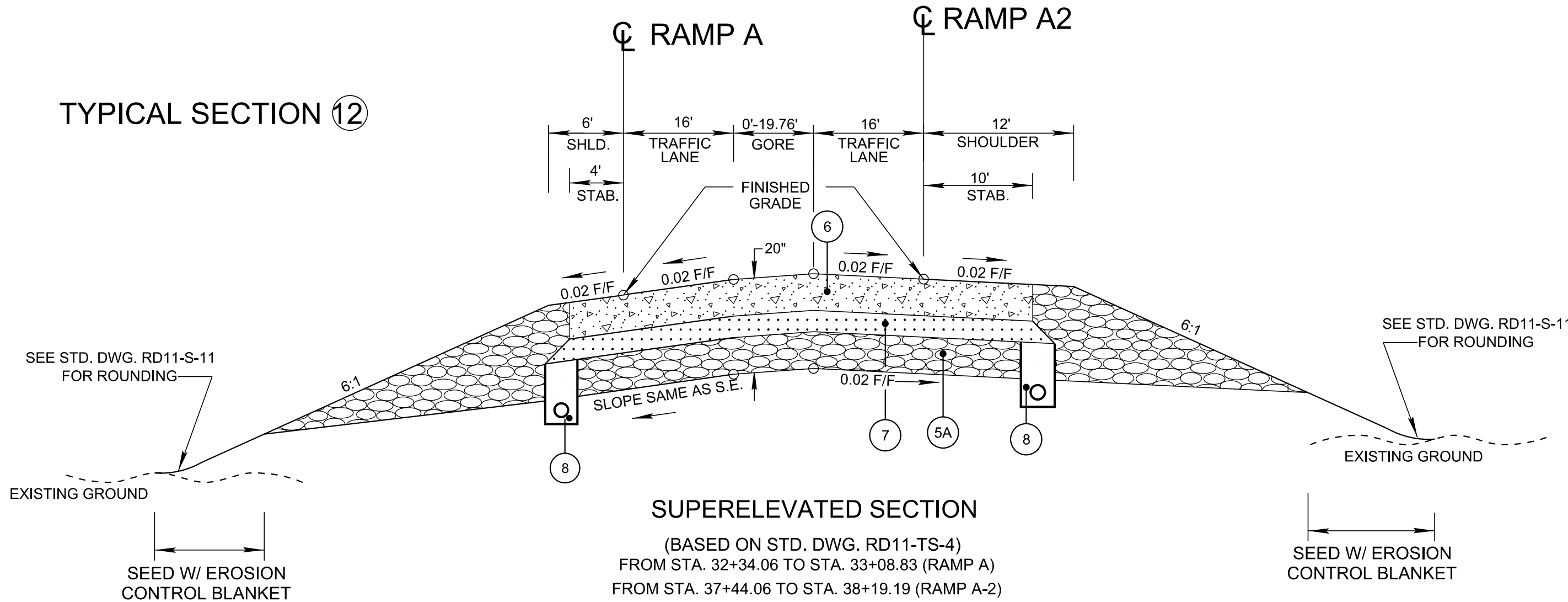
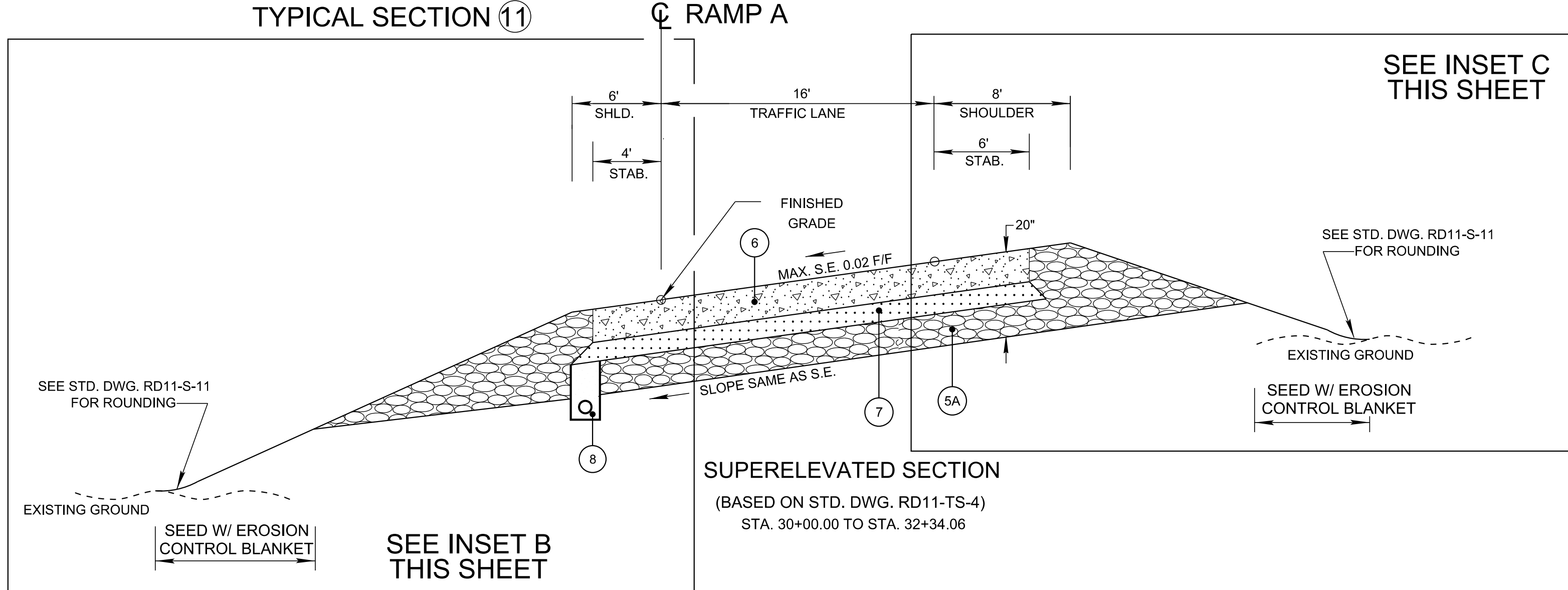
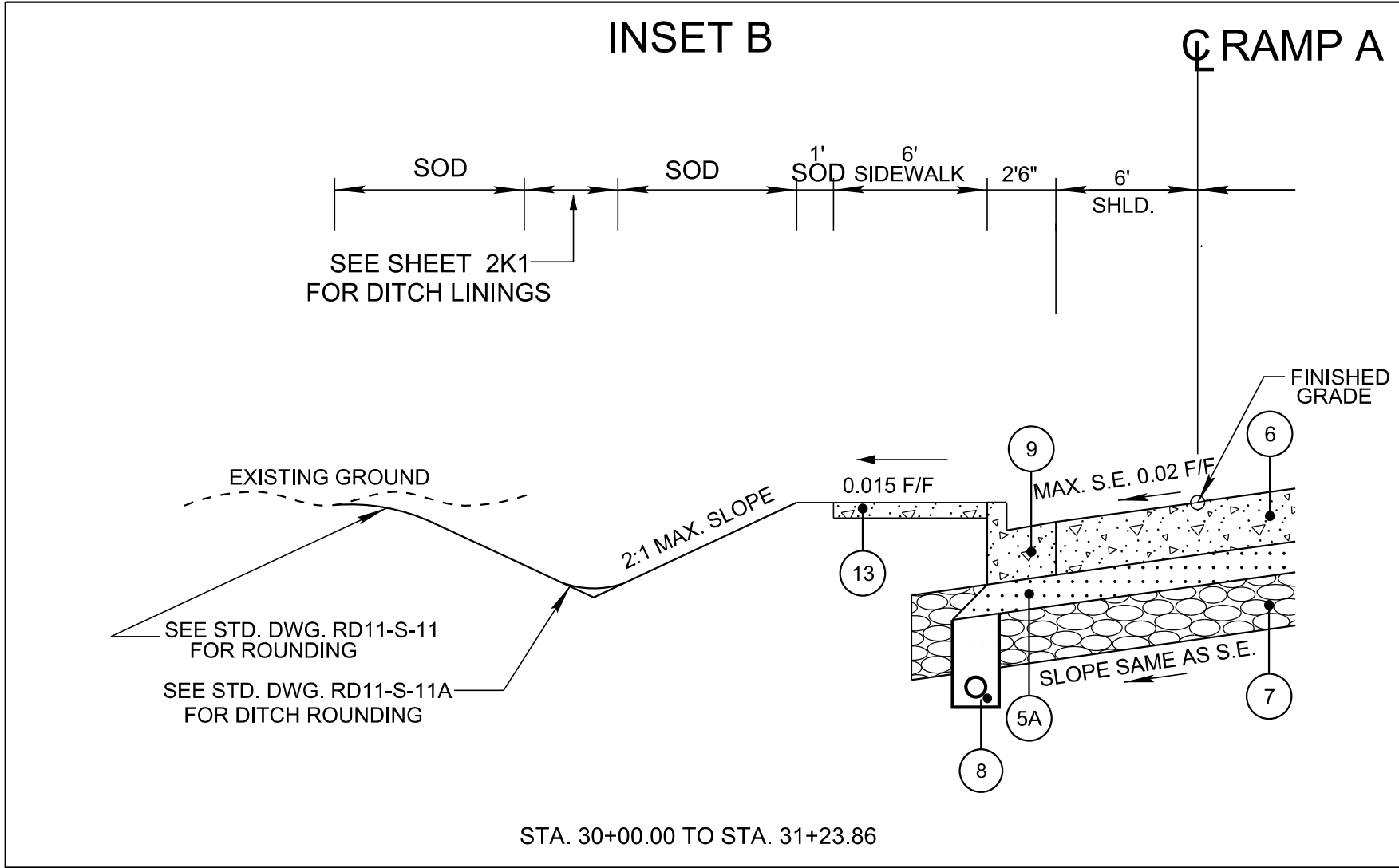


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	2B3
PS&E	2025	NH/STP-M-I-75-3(192)	2B3
KNOX CO.			I-75 AT SR-131
REV. 08/07/2025; REVISED TYPICAL SECTION 10.			



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DESCRIPTION

THIS WORK CONSISTS OF THE INSTALLATION OF A PIPE CULVERT UNDERGROUND THROUGH SOIL, ROCK, OR UNCLASSIFIED MATERIAL WITHOUT THE EXCAVATION OF A TRENCH. THIS WORK WILL INCLUDE THE INSTALLATION OF PIPE OF THE KIND AND DIMENSIONS SHOWN ON THE PLANS AND SPECIFIED IN THIS PROVISION USING A TRENCHLESS METHOD. THIS WORK ALSO INCLUDES THE DESIGN, ADEQUACY, METHOD, LINE AND GRADE OF THE INSTALLATION. THIS WORK INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT AS MAY BE NECESSARY TO MAKE CONNECTIONS WITH OTHER DRAINAGE STRUCTURES AS SHOWN ON THE PLANS. THIS PROVISION IS NOT TO BE USED FOR THE INSTALLATION OF UTILITIES.

THE VARIOUS METHODS THAT MAY BE USED INCLUDE JACK AND BORING, JACKING, HAND TUNNELING/EXCAVATION, TUNNELING, HORIZONTAL DIRECTIONAL DRILLING, OR A COMBINATION OF THESE METHODS.

MATERIALS

A. GENERAL

PROVIDE MATERIALS AS SPECIFIED IN:	
JOINT MORTAR	905.02
RUBBER GASKETS	905.03
REINFORCED CONCRETE PIPE (RCP)	B.1
SMOOTH WALL STEEL PIPE	B.2
GROUT	921.09

B. PIPE

A TRENCHLESS METHOD SHALL BE USED FOR INSTALLING REINFORCED CONCRETE PIPE WHERE TRENCHLESS PIPE CULVERT INSTALLATION IS SPECIFIED BY PLANS. THE TRENCHLESS METHOD MAY INCLUDE BUT NOT BE LIMITED TO JACK AND BORING, JACKING, HAND TUNNELING/EXCAVATION, TUNNELING, HORIZONTAL DIRECTIONAL DRILLING, OR A COMBINATION OF THESE METHODS. WHEN SMOOTH-WALL STEEL PIPE IS USED FOR CASING, IT SHALL BE DESIGNED TO SUFFICIENT STRENGTH TO RESIST INSTALLATION FORCES AND TO RESIST THE MAXIMUM HEIGHT OF FILL TO BE ENCOUNTERED OVER THE LENGTH OF THE PIPE. AS A MINIMUM REQUIREMENT, PROVIDE PIPE MATERIALS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE FOLLOWING:

1. **CARRIER PIPE:** REINFORCED CONCRETE PIPE (RCP), 18-54 INCHES, CLASS IV OR V MEETING **914.02** OR AASHTO M 170, M 206, OR M 207. THE RCP SHALL BE TONGUE AND GROOVE.
2. **CASING PIPE (IF USED):** SMOOTH-WALL STEEL PIPE MEETING ASTM A139 GRADE B. IF CASING IS USED, THE CASING PIPE SHALL BE STEEL PIPE FABRICATED IN SECTIONS FOR FIELD WELDED JOINTS. THE DIAMETER AND THICKNESS SHALL MEET THE REQUIREMENTS FOR THE WORK BUT SHALL HAVE A MINIMUM WALL THICKNESS MEETING THE FOLLOWING.

TABLE 607XX-1: CASING PIPE WALL THICKNESS

NOMINAL PIPE DIAMETER INCHES	MINIMUM
	NOMINAL WALL THICKNESS INCHES
30 OR LESS	0.375
31 OR MORE	0.532

C. GROUT

PROVIDE A NON-STRUCTURAL GROUT MIXTURE WITH SUFFICIENT WATER TO FORM A FLOWABLE CONSISTENCY THAT CAN BE DELIVERED UNDER PRESSURE TO FILL ANY VOIDS GREATER THAN 1 INCH OUTSIDE OF THE

TRENCHLESS PIPE CULVERT INSTALLATION
PIPE CULVERT JACKED-IN-PLACE

CASING PIPE AND TO FILL THE VOIDS BETWEEN THE CARRIER PIPE AND CASING PIPE.

D. LUBRICANT

IF REQUIRED, PROVIDE AN APPROVED LUBRICANT FOR THE INTENDED USE AS A DRILLING FLUID FOR LUBRICATION OR SOIL STABILIZATION FOR THIS WORK. DO NOT USE CHEMICALS OR POLYMER SURFACTANTS IN THE DRILLING FLUID WITHOUT WRITTEN CONSENT FROM THE ENGINEER. IF ANY CHEMICALS ARE APPROVED TO BE ALLOWED, THEY SHALL BE ENVIRONMENTALLY SAFE.

EQUIPMENT

PROVIDE ALL THE NECESSARY EQUIPMENT CAPABLE OF THE COMPLETE INSTALLATION OF A CASING PIPE (WHEN USED) AND/OR CARRIER PIPE MEETING KIND AND DIMENSIONS SHOWN ON THE PLANS AND SPECIFIED IN THIS PROVISION USING A TRENCHLESS METHOD.

SUBMITTALS

THE CONTRACTOR WILL BE RESPONSIBLE TO INVESTIGATE SITE AND GROUND CONDITIONS TO DETERMINE WHAT METHODS WILL BE NEEDED TO COMPLETE THE PIPE INSTALLATION. PROVIDE AND SUBMIT DETAILS AND INFORMATION OF THE INSTALLATION METHOD, EQUIPMENT AND MATERIALS. ALLOW A MINIMUM OF 20 WORKING DAYS FOR THE REVIEW OF THE SUBMITTALS BY THE ENGINEER. OBTAIN ACCEPTANCE OF THE SUBMITTAL PRIOR TO ORDERING PIPE MATERIALS AND THE START OF ANY EXCAVATION OR TRENCHLESS WORK. SUBMIT THE FOLLOWING DETAILS AND INFORMATION FOR REVIEW:

1. THE METHOD PROPOSED AND INSTALLATION SEQUENCE.
2. CERTIFICATION BY THE MANUFACTURER THAT ALL PIPE MATERIALS (CASING PIPE, CARRIER PIPE, GROUT, LUBRICANT) MEET REQUIREMENTS.
3. CASING PIPE (IF USED) DIMENSIONS TO ACCOMMODATE THE CARRIER PIPE SIZE INDICATED ON THE PLANS.
4. METHOD(S) TO CONTROL AND DISPOSE OF GROUND WATER (IF NEEDED), SPOILS, TEMPORARY SHORING, AND OTHER MATERIALS ENCOUNTERED IN THE CONSTRUCTION OF PITS AND PIPE INSTALLATION.
5. LAYOUT AND DESIGN OF ALL PITS, SHORING, AND BRACING, INCLUDING CALCULATIONS, SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF TENNESSEE.
6. THE GROUTING METHODS AND EQUIPMENT.
7. THE LINE AND GRADE CONTROL SYSTEM.
8. THE LUBRICATION SYSTEM AND MATERIALS TO BE USED–DURING INSTALLATION.
9. THE PLAN FOR MONITORING GROUND SURFACE MOVEMENT FOR SETTLEMENT OR HEAVE OF FACILITIES SUCH AS ROADWAYS, STREETS, DRIVEWAYS, SIDEWALKS, AND UTILITY LINES.
10. CONTINGENCY PLANS FOR THE FOLLOWING POTENTIAL CONDITIONS: DAMAGE TO PIPELINE STRUCTURAL INTEGRITY, MISALIGNMENT; GROUND SURFACE MOVEMENT; OBSTRUCTIONS; MATERIAL CHANGES; AND CHANGE IN THE TRENCHLESS METHOD.
11. METHOD OF SUPPORT AND GUIDANCE OF THE CARRIER PIPE. ENSURE THE CARRIER PIPE IS INSTALLED AT THE LINE AND GRADE INDICATED IN THE PLANS.
12. METHOD OF ENSURING WORKER SAFETY.

CONSTRUCTION

A. GENERAL

WHEN INSTALLING A PIPE CULVERT UNDER FACILITIES SUCH AS ROADWAYS, STREETS, DRIVEWAYS, SIDEWALKS, AND UTILITY LINES, THE WORK WILL BE PERFORMED WITHOUT INTERFERING WITH THE OPERATION OR WEAKENING THE ROADBED, UTILITY OR FACILITIES. NO EXCAVATION FOR PITS WILL BE ALLOWED INSIDE THE SHOULDERS OF THE ROADWAYS AND THE PITS WILL BE SEPARATED FROM TRAFFIC.

PERFORM ALL WORK IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS AND PERMITS.

WHEN INSTALLING A PIPE CULVERT UNDER A RAILROAD, THE TRENCHLESS INSTALLATION REQUIREMENTS MUST MEET THE RAILROAD’S SPECIFICATIONS AND BE APPROVED BY THE RAILROAD.

B. PRELIMINARY WORK

PERFORM CLEARING AND GRUBBING, REMOVAL OF STRUCTURES AND OBSTRUCTIONS, EXCAVATION AND UNDERCUTTING, EMBANKMENT CONSTRUCTION AND PLACEMENT OF EROSION CONTROL DEVICES AS SPECIFIED IN **201, 202, 203, 205,** AND **209** RESPECTIVELY.

C. EXCAVATIONS

LOCATE AND EXCAVATE PITS FOR THE TRENCHLESS PIPE INSTALLATION MEETING REQUIREMENTS OF **204** AND THIS PROVISION. ENSURE ALL PITS REQUIRED FOR THE INSTALLATION OF THE PIPE ARE LOCATED WITHIN RIGHT-OF-WAY AND MEET ALL SAFETY REQUIREMENTS.

DELINEATE THE PERIMETER WORK AREA OF THE PITS WITH ORANGE FLAGGING, FENCING OR OTHER SAFETY DEVICES.

D. DEWATERING

IF NEEDED, PERFORM ALL DEWATERING AS REQUIRED FOR THE COMPLETION OF THE WORK. DISPOSE OF ALL WATER REMOVED BY DEWATERING OPERATIONS IN ACCORDANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS.

IF, IN THE COURSE OF CONSTRUCTION, IT MAY BE NECESSARY TO BLOCK OR EXCAVATE THROUGH AN EXISTING DITCH, INSTALL TEMPORARY DIVERSION PIPES, DITCHES OR OTHER DRAINAGE FACILITIES AS WELL AS SUFFICIENT EPSC CONTROL MEASURES TO MAINTAIN ADEQUATE DRAINAGE, AS ACCEPTED BY THE ENGINEER. UPON COMPLETION OF THE WORK, REMOVE AND RESTORE BACK TO ORIGINAL CONDITION.

E. SURFACE MONITORING

CONTINUOUSLY MONITOR GROUND SURFACE MOVEMENT FOR SETTLEMENT OR HEAVE OF FACILITIES SUCH AS ROADWAYS, STREETS, DRIVEWAYS, SIDEWALKS, AND UTILITY LINES.

IF ANY SETTLEMENT OR HEAVING OR CONSTRUCTION DAMAGE OCCURS TO ROADWAYS, STREETS, DRIVEWAYS, SIDEWALKS, OR UTILITY LINES, DISCONTINUE WORK AND SUBMIT A REVISED INSTALLATION PLAN FOR REVIEW AND ACCEPTANCE PRIOR TO RESUMING WORK. REPAIR TO ORIGINAL CONDITIONS OR BETTER SHALL BE UNDERTAKEN AND COMPLETED AS DIRECTED BY THE ENGINEER AT NO COST TO THE DEPARTMENT.

F. CARRIER PIPE AND CASING PIPE (IF USED) INSTALLATION

THE METHOD USED FOR INSTALLING THE PIPE IS OF SUCH SIZE AND CAPACITY THAT IT WILL ALLOW THE WORK TO PROCEED IN A SAFE AND EXPEDITIOUS MANNER. ENSURE THAT THE DIAMETER OF THE EXCAVATION CONFORMS TO THE OUTSIDE DIAMETER OF THE PIPE AS CLOSELY AS POSSIBLE.

THE INSTALLATION OF THE PIPE IS DONE AS A CONTINUOUS OPERATION TO PREVENT VOIDS, CAVE-INS, SETTLEMENT OR HEAVING, AND AVOID DAMAGES TO ANY ROADWAYS, STREETS, DRIVEWAYS, SIDEWALKS, AND UTILITY LINES.

CONTINUOUSLY MONITOR AND CONTROL THE DELIVERY OF ANY LUBRICATION MATERIALS TO PREVENT PIPE BUCKLING OR GROUND HEAVE. ENSURE THE LUBRICATION MATERIAL IS USED IN ACCORDANCE WITH THE MANUFACTURERS’ SPECIFICATIONS. CONTAIN EXCESS FLUIDS, SLURRY AND SOIL CUTTINGS IN PITS UNTIL THEY ARE RECYCLED OR REMOVED FROM THE SITE. ENSURE THAT ALL FLUIDS AND OTHER MATERIALS ARE DISPOSED OF OR RECYCLED IN A MANNER ACCEPTABLE TO THE APPROPRIATE ENVIRONMENTAL REGULATIONS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	2D1

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; ADDED SHEET.

SEALED BY



08-07-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL
NOTES

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INSTALL CARRIER PIPE JOINT MATERIAL RUBBER RING GASKETS MEETING ASTM C443 TO FORM A FLEXIBLE WATERTIGHT SEAL OR OTHER TYPES OF JOINTS RECOMMENDED BY THE PIPE MANUFACTURER AND APPROVED BY THE ENGINEER. INSTALL OR CONSTRUCT THEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

IF CASING PIPE IS USED, THE JOINTS SHALL BE CONTINUOUSLY FIELD WELDED AROUND THE ENTIRE CIRCUMFERENCE TO BE WATERTIGHT AS INSTALLATION PROGRESSES. THE WELDS SHALL BE STRONG ENOUGH TO WITHSTAND THE FORCES EXERTED FROM THE TRENCHLESS WORK AND THE VERTICAL LOADING IMPOSED ON THE PIPE AFTER INSTALLATION. THE WELDS SHALL PROVIDE A SMOOTH, NON-OBSTRUCTING JOINT IN THE INTERIOR OF THE PIPE.

CONTINUOUSLY CHECK THE LINE AND GRADE OF THE PIPE DURING INSTALLATION.

IF NEEDED AFTER PIPE INSTALLATION IS COMPLETE, PRESSURE-INJECT A GROUT MIXTURE INTO ANY VOIDS CREATED OUTSIDE THE CASING PIPE IN EXCESS OF 1 INCH. ENSURE GROUTING OPERATION DOES NOT DAMAGE ANY PORTION OF THE WORK, ADJACENT UTILITIES OR EXISTING INSTALLATIONS OR STRUCTURES.

IF CASING PIPE IS USED, FOLLOWING THE COMPLETION OF THE INSTALLATION, FURNISH PIPE CRADLES, SPIDERS, OR GUIDES WITHIN THE CASING FOR THE PURPOSES OF GUIDING AND SUPPORTING THE INSTALLATION OF THE CARRIER PIPE TO CONTROL THE LINE AND GRADE.

IF CASING PIPE IS USED, FILL THE VOIDS THAT ARE BETWEEN THE CASING PIPE AND THE CARRIER PIPE WITH THE PRESSURE-INJECTED GROUT MIXTURE.

IF CONDITIONS ARISE MAKING IT IMPOSSIBLE TO FURTHER INSTALL THE PIPE WITHOUT DAMAGE, CONSTRUCT THE BALANCE OF THE PIPE INSTALLATION WITH METHODS ACCEPTED BY THE ENGINEER.

IF THE CARRIER PIPE INSTALLATION EXTENDS BEYOND WHAT IS NEEDED FOR THE INSTALLATION OF THE CASING PIPE (IF USED), THEN THE CARRIER PIPE SHALL BE INSTALLED AS SPECIFIED IN **607**.

B. BACKFILLING AND POST INSTALLATION INSPECTION

WHEN THE INSTALLATION IS COMPLETE, THE PIPE CULVERT SHALL BE CLEANED OF DEBRIS PRIOR TO THE INSPECTION. CLEANING SHALL BE ACCOMPLISHED BY MEANS OF WATER JETTING OR OTHER APPROVED METHODS. PERFORM A VISUAL OR A VIDEO INSPECTION USING A HIGH-RESOLUTION COLOR VIDEO CAMERA AND PROVIDE THE ENGINEER WITH VIDEO OF THE INSPECTION.

ALL SECTIONS OF PIPE CULVERT FOUND TO BE DAMAGED OR WHERE JOINT FAILURE IS EVIDENT SHALL BE REPAIRED OR REPLACED AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

AFTER COMPLETING THE INSTALLATION, BACKFILL THE EXCAVATED PITS AND TRENCHES MEETING REQUIREMENTS OF **205**.

METHOD OF MEASUREMENT

THE DEPARTMENT WILL MEASURE PIPE CULVERT FOR TRENCHLESS INSTALLATION OF THE DIFFERENT CLASSES, SHAPES, AND SIZES SPECIFIED, BY THE LINEAR FOOT OF CARRIER PIPE, INSTALLED AND ACCEPTED.

BASIS OF PAYMENT

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

ITEM NO.	DESCRIPTION	UNIT
607-06.06	30" PIPE CULVERT (JACKED-IN-PLACE)	LINEAR FEET
607-08.05	42" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE)	LINEAR FEET

SUCH PAYMENT WILL BE FULL COMPENSATION FOR ALL WORK SPECIFIED IN THIS PROVISION INCLUDING COMPENSATION FOR DESIGN, FURNISHING CASING PIPE AND CARRIER PIPE, LINE AND GRADE, AND SURFACE MONITORING. IT SHALL ALSO INCLUDE PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS FOR EXCAVATION, TEMPORARY SHORING, DEWATERING, CASING PIPE AND CARRIER PIPE INSTALLATION, GROUTING, BACKFILLING, INSPECTION AS REQUIRED FOR COMPLETE INSTALLATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	2D2

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; ADDED SHEET.

SEALED BY



Kathleen C. Holmes
REGISTERED ENGINEER
Agriculture
No. 106385
STATE OF TENNESSEE

08-07-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL
NOTES

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CATCH BASINS AND MANHOLES																														
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT.)	STANDARD DRAWINGS	TYPE 3 M.H. 611-01.02 4' - 8'	TYPE 3 M.H. 611-01.03 8' - 12'	TRENCH DRAIN 611-05.01 L.F.	TYPE 4 J.B. 611-02.13 EA.	TYPE 10 C.B. 611-10.01 0' - 4'	TYPE 10 C.B. 611-10.02 4' - 8'	TYPE 12 C.B. 611-12.01 0' - 4'	TYPE 12 C.B. 611-12.02 4' - 8'	TYPE 12 C.B. 611-12.03 8' - 12'	TYPE 14 C.B. 611-14.02 4' - 8'	TYPE 14 C.B. 611-14.03 8' - 12'	TYPE 25 C.B. 611-25.01 0' - 4'	TYPE 25 C.B. 611-25.02 4' - 8'	TYPE 26 C.B. 611-26.03 8' - 12'	TYPE 42 C.B. 611-42.01 0' - 4'	TYPE 42 C.B. 611-42.02 4' - 8'	TYPE 43 C.B. 611-43.02 4' - 8'	ADJUST EX. C.B. 611-09.01 EACH	REWORK CATCH BASIN 611-09.02 EACH	REMARKS	
5F	S_BACKROAD	252+00.00	8.85	117	996.02	#12	6' DIA	7.1	D-CB-12RB								1													
5F	S_BACKROAD	251+90.00	31	118	996	MH	5' DIA	6.8	D-MH-2	1																				
5F	N_BACKROAD	15+33.00	-14	126	1014.15	#12	4' DIA	4.71	D-CB-12RA								1													
5F	N_BACKROAD	15+74.00	-14.44	127	1013.92	#10	4' DIA	4.93	D-CB-10RA					1																
5F	N_BACKROAD	15+68.00	38.0	128	1020.50	MH	5' DIA	11.77	D-MH-2		1																			
5F	RAMPA2	37+36.80	89.3	EX-01	1012.34	EX#14	N/A	N/A	N/A																					EXIST. STR. TO REMAIN
5F	RAMPD	72+50.00	34.9	EX-21	1001.65	EX#42	N/A	3.78	N/A																					
6F	EB-EMORY	34+52.00	47	77	1004.46	#12	5' DIA	3.99	D-CB-12RA							1														
6F	WB2-EMORY	60+34.00	-62.7	81	1021	MH	5' DIA	10.56	D-MH-2		1																			
6F	FRONTAGE-B	71+45.00	-12	82A	1010.98	#12	32"X32"	4.02	D-CB-12LP								1													
6F	FRONTAGE-B	71+45.00	12	82B	1010.5	#12	5' DIA	5.21	D-CB-12RB								1													
6F	FRONTAGE-B	71+90.00	12	82	1010.68	#12	6' DIA	4.78	D-CB-12RB								1													
6F	FRONTAGE-B	72+80.75	-12	83	1014.38	#12	4' DIA	4.6	D-CB-12RA								1													
6F	FRONTAGE-B	73+69.00	-12	84A	1018.36	EX	N/A	5.43	N/A																			1		MODIFY EXIST CB TO ADD 18" AND 24" PIPE. EXIST. 24" PIPE OUT TO BE ABANDONED AND CB CONNECTION GROUTED CLOSED. CAP EXIST. CB BELOW FINISHED GRADE.
6F	WB2-EMORY	58+05.00	-42.24	84	1014.64	#12	6' DIA	10.16	D-CB-12RB									1												
6F	EMORY	122+22.00	-49.13	85A	1013.36	#12	7' DIA	5.36	D-CB-12RC								1													
6F	WB2-EMORY	60+36.78	-38	85	1013.88	#12	4' DIA	6.75	D-CB-12RA								1													
6F	CONNER	214+52.00	39.9	86	1013.36	#14	8' DIA	5.15	D-CB-14RB										1											
6F	CONNER	214+35.00	55	87	1017.5	MH	52"X52"	7.59	D-MH-5	1																				
6F	CONNER	214+58.00	-24.9	88	1012.68	#12	4' DIA	3.89	D-CB-12RA							1														
6F	WB2-EMORY	59+25.00	-39.55	91	1015.16	#12	5' DIA	9.3	D-CB-12RB									1												
6F	WB2-EMORY	59+25.00	-52.7	92	1014.5	#42	5' DIA	3.94	D-CB-42RB															1						
6F	FRONTAGE-B	73+59.00	-19.5	97	1018.79	#12	4' DIA	3.89	D-CB-12RA							1														
6F	FRONTAGE-B	74+21.90	-41.44	97A	1018.81	EXIST.	4' DIA	4.67	N/A																					EXIST. STRUCTURE TO REMAIN
6F	FRONTAGE-B	71+46.00	-28.1	98A	1013.68	EXIST.	4' DIA	5.66	N/A																					EXIST. STRUCTURE TO REMAIN
6F	FRONTAGE-B	72+00.73	-22.51	98	1012.62	EXIST.	4' DIA	4.92	N/A																			1		RESET EXISTING GRATE
6F	FRONTAGE-B	72+38.36	-45.56	98B	1013.18	EXIST.	4' DIA	1.36	N/A																					EXIST. STRUCTURE TO REMAIN
6F	FRONTAGE-B	72+80.00	12	99	1014.05	#12	6' DIA	4.78	D-CB-12RB								1													
6F	EB-EMORY	36+65.47	40.4	100	1012.2	#12	4' DIA	6.41	D-CB-12RA								1													
6F	S_BACKROAD	245+38.33	28.27	101A	1002.66	#12	6' DIA	N/A	D-CB-12RB																				1	CONVERT EX. MH TO CB
6F	S_BACKROAD	245+60.00	-14	101	1002.04	#12	4' DIA	3.89	D-CB-12RA							1														
6F	S_BACKROAD	245+77.00	14	102	1002.37	#12	4' DIA	4.67	D-CB-12RA								1													
6F	S_BACKROAD	247+34.00	28.5	103	1001.5	#42	5' DIA	5.54	D-CB-42RB																		1			
6F	S_BACKROAD	248+15.00	-14	104	1002.41	#12	4' DIA	7.49	D-CB-12RA								1													
6F	S_BACKROAD	248+15.00	14	105	1002.41	#12	4' DIA	3.89	D-CB-12RA							1														
6F	S_BACKROAD	248+30.00	14	106	1002.38	#14	8' DIA	8.3	D-CB-14RB											1										
6F	S_BACKROAD	248+30.00	-14	107	1002.38	#14	8' DIA	7.88	D-CB-14RB										1											
6F	S_BACKROAD	248+45.00	14	108	1002.41	#12	4' DIA	8.54	D-CB-12RA									1												
6F	S_BACKROAD	248+45.00	-14	109	1002.41	#12	4' DIA	3.89	D-CB-12RA							1														
6F	S_BACKROAD	249+50.00	27.3	111	1003	#42	5' DIA	7.01	D-CB-42RB																	1				
6F	S_BACKROAD	250+05.00	14	112	1002.75	#12	4' DIA	9.84	D-CB-12RA									1												
6F	N_BACKROAD	11+50.00	-14	121	1026.04	#12	4' DIA	3.89	D-CB-12RA							1														
6F	N_BACKROAD	12+14.00	-14	122	1025.12	#14	8' DIA	4.58	D-CB-14RB										1											
6F	N_BACKROAD	14+00.00	-14	123	1019.94	#12	4' DIA	4.06	D-CB-12RA								1													
6F	N_BACKROAD	14+93.00	-14	124	1014.41	#12	5' DIA	4.44	D-CB-12RB								1													
6F	N_BACKROAD	14+93.00	14	125	1014.76	#14	8' DIA	4.41	D-CB-14RB										1											
6F	EB-EMORY	39+34.80	38	131	1013.77	#12	4' DIA	3.89	D-CB-12RA							1														
6F	WB2-EMORY	56+00.00	2	133	1008.99	#25	4' DIA	4.78	D-CB-25RA													1								
6F	FRONTAGE-B	72+80.75	-21.93	EX-08	1013.2	EX#42	5' DIA	0.16	N/A																					EXIST. CONTROL STRUCTURE
6F	CONNER	214+17.00	21	EX-16	1014.21	EX#12	4' DIA	3.89	D-CB-12RA																		1			ADJUST EXISTING
8C	RAMPA	38+66.80	48.09	94	1040.17	MH	6' DIA	6.67	D-MH-2	1																				
TOTALS										7	6	105	1	1	2	11	34	9	7	1	1	4	1	4	8	2	7	3		

STORM DRAINAGE PIPES															
SHEET NO.	FROM		TO		%	PVC	RCP CLASS III						RCP CLASS IV		REMARKS
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		GRADE	611-05.02 12" (L.F.)	607-03.02 18" (L.F.)	607-05.02 24" (L.F.)	607-06.02 30" (L.F.)	607-07.02 36" (L.F.)	607-08.02 42" (L.F.)	607-09.02 48" (L.F.)	607-06.06 30" JACKED IN PLACE (L.F.)	
4F	1	995.20	3A	994.76	2.49		18								
4F	2	997.20	4	996.23	6.93	14									
4F	3	995.64	3A	994.76	1.23		71								
4F	3A	994.66	3B	993.86	0.47										EX PIPE; TIE TO STR. 3A
4F	4	993.02	4A	992.23	0.80						99				
4F	5	996.60	8	996.20	1.00				39						
4F	6	999.15	5	999.00	0.60	24									
4F	7	996.98	3	995.81	1.05		111								
4F	8	995.95	9	995.45	4.45				11						
4F	9	994.62	4	993.52	1.00					110					
4F	10	996.78	9	996.30	1.00		48								
4F	11	999.10	12	998.96	2.00	7									
4F	12	998.58	13	997.61	7.86		12								
4F	13	997.40	10	996.95	1.00		46								
4F	15	997.33	17	996.53	0.50		161								
4F	17	996.53	20	996.21	0.50		65								
4F	18	996.90	21	995.65	1.61		78								
4F	20	996.21	23	991.59	7.56		61								
4F	21	995.55	24	994.50	1.98		53								
4F	22	991.37	23	989.59	20.00						9				
4F	23	989.59	24	988.82	0.50						32		122		122' OF PROP. 42" PIPE TO BE CLASS IV RCP INSTALLED BY JACK AND BORE UNDER EMORY ROAD, ITEM 607-08.05. REMAINING 32' OF PROP. 42" PIPE TO BE CLASS III RCP, ITEM 607-08.02.
4F	24	988.82	96	985.71	3.13						99				
4F	25	992.87	23	991.59	8.51		15								

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	2F2
PS&E	2025	NH/STP-M-I-75-3(192)	2F2

KNOX CO. I-75 AT SR-131

REV. 02/23/2023; REVISED DRAINAGE TABULATIONS.

REV. 06/14/2024; REVISED DRAINAGE TABULATIONS.

REV. 09/04/2024; REVISED HEADWALL 129.

REV. 07/02/2025; REVISED PIPE DRAINAGE TABULATIONS.

REV. 08/07/2025; REVISED PIPES 126-127 AND 127-128.

STORM DRAINAGE PIPES															
SHEET NO.	FROM		TO		%	PVC	RCP CLASS III						RCP CLASS IV		REMARKS
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		GRADE	611-05.02 12" (L.F.)	607-03.02 18" (L.F.)	607-05.02 24" (L.F.)	607-06.02 30" (L.F.)	607-07.02 36" (L.F.)	607-08.02 42" (L.F.)	607-09.02 48" (L.F.)	607-06.06 30" JACKED IN PLACE (L.F.)	
5F	56	987.95	59	987.50	0.60				74						
5F	57	986.27	65	986.00	3.01					9					STUB INTO BOX CULVERT
5F	58	990.97	54	990.69	0.50			57							
5F	60	992.65	55	991.85	2.26			35							
5F	62	989.60	61	989.00	10.06			6							STUB INTO BOX CULVERT
5F	70	998.54	67	998.00	5.89		9								STUB INTO BOX CULVERT
5F	72	994.18	62	989.70	4.00			112							
5F	73	998.86	70	998.75	1.00		11								
5F	75	999.56	73	999.07	1.00		49								
5F	76	1001.73	77	1000.57	1.50		77								
5F	78	1001.44	68	999.00	1.90				129						STUB INTO BOX CULVERT
5F	79	1004.68	78	1004.28	4.23			9							
5F	80	1005.71	79	1005.55	0.55		29								
5F	95	988.03	96	987.71	0.50		65								
5F	96	985.71	28	980.74	8.95						56				
5F	113	993.81	118	991.52	2.69			85							
5F	114	992.91	116	989.76	2.79		113								
5F	115	991.99	117	991.82	0.50		35								
5F	116	989.43	117	989.17	0.50		51								
5F	117	988.92	120	988.79	0.51			27							
5F	118	989.20	119	988.83	1.00			37							
5F	124	1009.97	126	1009.61	1.01		36								
5F	126	1009.44	127	1009.16	0.80		30								
5F	127	1008.99	128	1008.73	0.50		48								
5F	128	1008.73	129	1008.00	0.54		136								
5F	EX-01	1007.44	73	1006.67	1.18										EXISTING
5F	EX-21	997.06	72	996.31	20.00			4							
6F	77	1000.47	72	996.25	6.34		67								
6F	81	1010.44	87	1010.12	1.23			26							
6F	82	1005.90	82B	1005.50	1.00			40							
6F	82A	1006.97	82B	1006.56	2.15		19								
6F	82B	1005.29	79	1005.01	0.90			32							
6F	83	1009.78	99	1009.52	1.44			18							
6F	84	1004.48	78	1001.94	1.00			254							
6F	84A	1013.37	84	1010.11	7.93			41							
6F	85	1007.13	91	1006.07	1.00			107							
6F	85A	1008.00	85	1007.25	2.56			29							
6F	86	1007.71	85A	1007.65	1.24			5							
6F	87	1009.91	85A	1008.41	8.30			18							
6F	88	1008.79	86	1008.21	1.00		58								
6F	91	1005.86	84	1004.73	1.00			113							
6F	92	1010.56	91	1010.47	1.00		9								
6F	97	1014.90	84A	1014.81	1.09		8								
6F	97A	1014.14	84A	1013.62	0.97										EXISTING
6F	98	1007.70	82	1006.70	3.23		31								
6F	98A	1008.02	82A	1007.09	6.64										EXISTING
6F	99	1009.27	82	1006.15	3.68			85							
6F	100	1005.79	77	1000.57	2.48		211								
6F	101	998.15	102	997.87	1.01		28								
6F	102	997.70	103	996.17	1.00		153								
6F	103	995.96	104	995.09	1.00		87								
6F	104	994.92	107	994.83	1.00		9								
6F	105	998.52	106	997.97	6.11		9								
6F	106	994.08	108	994.03	0.50		9								
6F	107	994.50	106	994.41	0.48		19								
6F	108	993.87	112	993.09	0.50		156								
6F	109	998.52	107	997.97	6.11		9								
6F	111	995.99	113	994.02	1.36			145							
6F	112	992.91	115	992.16	0.50		151								
6F	121	1022.15	122	1020.71	2.66		54								
6F	122	1020.54	123	1016.05	2.55		176								
6F	123	1015.88	124	1010.47	6.11		89								
6F	125	1010.35	124	1010.14	1.04		20								
6F	131	1009.88	100	1005.89	1.50		266								
6F	133	1004.21	76	1001.83	3.00		79								
6F	EX-02	1012.64	81	1010.65	9.74										
6F	EX-08	1011.16	83	1009.95	20.00			6							EXISTING REPLACE EXISTING OUTFALL
6F	EX-16	1010.32	86	1008.95	4.00		34								
8C	94	1033.50	93	1033.39	0.50						23				
8C	EX-13	1050.24	94	1033.76	3.22										EXISTING
TOTALS						53	3881	1595	253	317	306	23	148	122	

STORM DRAINAGE ENDWALLS											
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	24" ENDWALL 6:1 611-07.59 EACH	48" ENDWALL 6:1 611-07.71 EACH	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)
4F	WB1-EMORY	44+63.50	-49.7	22	42" PRT 3:1 90	D-PEW-1			4.88	208	
5F	RAMPC2	57+86.00	28	27	42" PRT 3:1 75	D-PEW-1			5	212	
8C	RAMPA	38+41.60	53.5	93	48" U 6:1	D-PE-48A		1			
5F	RAMPA	34+02.00	118	129	18" PRT 2:1 90	D-PEW-1			0.72	21	
5F	S_BACKROAD	35+03.00	2	119	24"STR 3:1	D-PE-4			1.5	70	
5F	S_BACKROAD	71+11.50	12.57	120	24"STR 3:1	D-PE-4			1.5	70	
TOTALS								1	13.6	581	

BOX CULVERT TABULATION												
STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA (ACRES)	BOX CULVERT		DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1	FOUNDATION FILL MATERIAL 204-08	NOTES
							BOX					
							CLASS "A" CONC. CU. YD. 604-01.01	REINF. STEEL LBS. 604-01.02				
					INLET/OUTLET					TONS	CU. YD.	
36+60	RAMPA2	6	6	125	43	112.75	104.27	21025	STD-17-51	1043.59	52.45	EXTEND EXIST. BOX CULVERT
71+55	RAMPD	6	6	226	27.5	112.75	183.05	37185	STD-17-51	1768.33	94.84	EXTEND EXIST. BOX CULVERT
TOTALS							287	58209		2812	147	

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Kathleen C. Holmes
08-07-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	2F4
PS&E	2025	NH/STP-M-I-75-3(192)	2F4

KNOX CO. I-75 AT SR-131

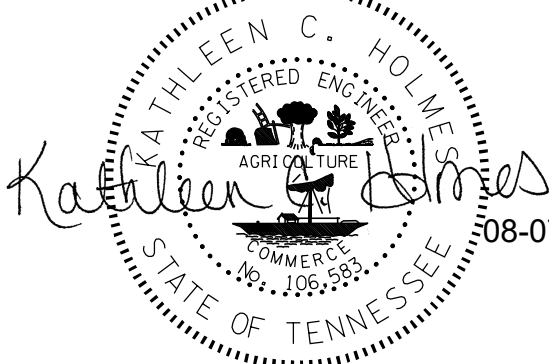
REV. 07/02/2025; DELETED ITEM NO. 415-01.02, ADDED ITEMS 415-01.01 AND 407-20.05.

REV. 08/07/2025; REVISED ITEM 701-01.01, CONCRETE SIDEWALK.

ITEMIZED PAVING QUANTITIES

ITEM NO.	DESCRIPTION	SR-131	RAMP A	RAMP A2	RAMP B	RAMP B2	RAMP C	RAMP C2	RAMP D	RAMP D2	S BACKAGE RD	N BACKAGE RD	FRONTAGE RD A	FRONTAGE RD B	INGLES DRIVEWAY	CONNER ROAD	DRIVEWAYS	MAINT. OF TRAFFIC	TOTAL QUANTITY	UNIT
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	6,302.8	4,269.0	941.8	4,968.7	1,447.1	4,276.7	635.9	4,558.6	680.2	1,185.3	935.6	85.4	721.8	25.1		1,024.0	2,280.7	34,338.8	TON
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2										206.9	180.7	14.6	133.1			271.5	1,397.9	2,204.6	TON
307-01.21	ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING A-S	1,444.8																	1,444.8	TON
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	1,563.7																	1,563.7	TON
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	963.0																	963.0	TON
313-03	TREATED PERMEABLE BASE		4,940.4	1,098.4	3,954.0	1,962.0	5,162.2	760.8	5,899.0	969.3									24,746.2	SY
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	114.8									23.2	20.2	1.6	14.9					174.8	TON
402-02	AGGREGATE FOR COVER MATERIAL (PC)	407.9									82.4	72.0	5.8	53.0					621.1	TON
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	62.0									5.4	4.7	0.4	3.4					75.8	TON
407-20.05	SAW CUTTING ASPHALT PAVEMENT	6,172.2																	6,172.2	LF
411-01.10	ACS MIX(PG64-22) GRADING D										121.3	105.9	8.5	78.0	45.3	120.8	218.5		698.3	TON
411-02.10	ACS MIX(PG70-22) GRADING D	1,498.0																	1,498.0	TON
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	6,827.2													344.4	918.8			8,090.4	TON
501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"		4,940.4	1,098.4	3,954.0	1,962.0	5,162.2	760.8	5,899.0	969.3									24,746.2	SY
701-01.01	CONCRETE SIDEWALK (4")	16,600.1									2,818.0	2,372.0			312.0				22,102.1	SF
701-02	CONCRETE DRIVEWAY																9,023.5		9,023.5	SF
701-02.03	CONCRETE CURB RAMP	2,487.4										295.0			127.0				2,909.4	SF
701-03	CONCRETE MEDIAN PAVEMENT	230.4																	230.4	CY
702-01	CONCRETE CURB	63.5										7.1	3.6	25.3	1.3		33.2		134.1	CY
702-03	CONCRETE COMBINED CURB AND GUTTER	296.1	12.7	13.5	6.2	6.4	1.1	5.7	24.9	5.2	74.0	53.9			3.8				503.5	CY
710-02	AGGREGATE UNDERDRAIN (WITH PIPE)	4,519.0	1,189.0	198.0	1,597.0	314.0	1,123.0	222.0	1,368.0	164.0									10,694.0	LF
710-05	LATERAL UNDERDRAIN		86.7	14.3	112.6	14.3	91.0	15.5	85.7										420.0	LF
710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)		6.0	1.0	8.0	1.0	6.0	1.0	6.0										29.0	EACH

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Kathleen C. Holmes
08-07-2025

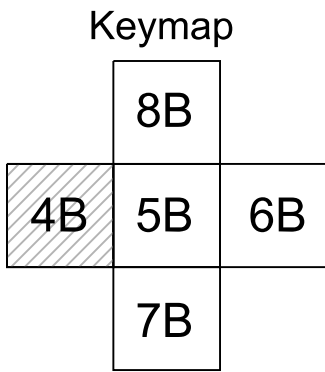
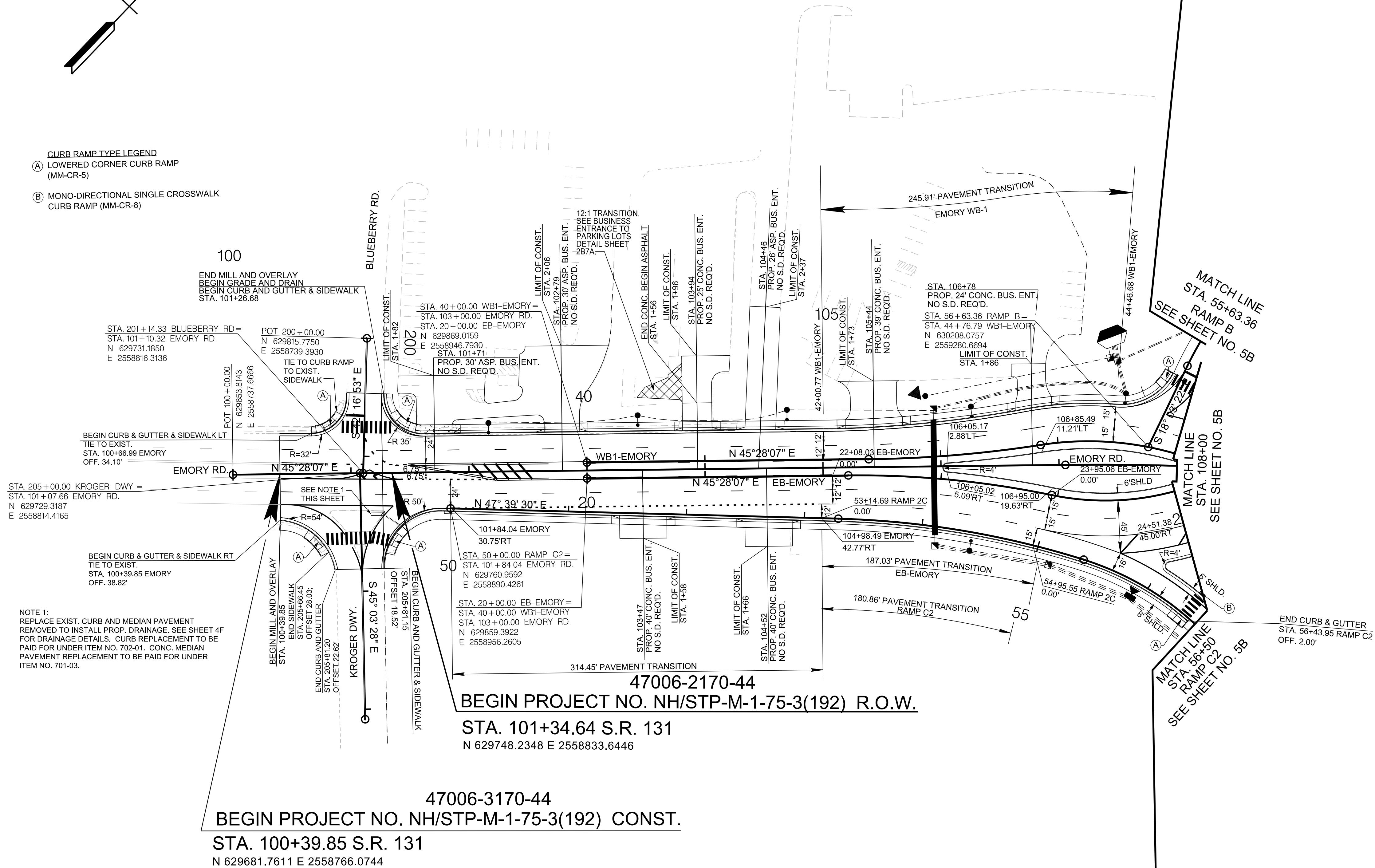
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	
PS&E	2025	NH/STP-M-I-75-3(192)	

KNOX CO. I-75 AT SR-131

- CURB RAMP TYPE LEGEND
- (A) LOWERED CORNER CURB RAMP (MM-CR-5)
- (B) MONO-DIRECTIONAL SINGLE CROSSWALK CURB RAMP (MM-CR-8)



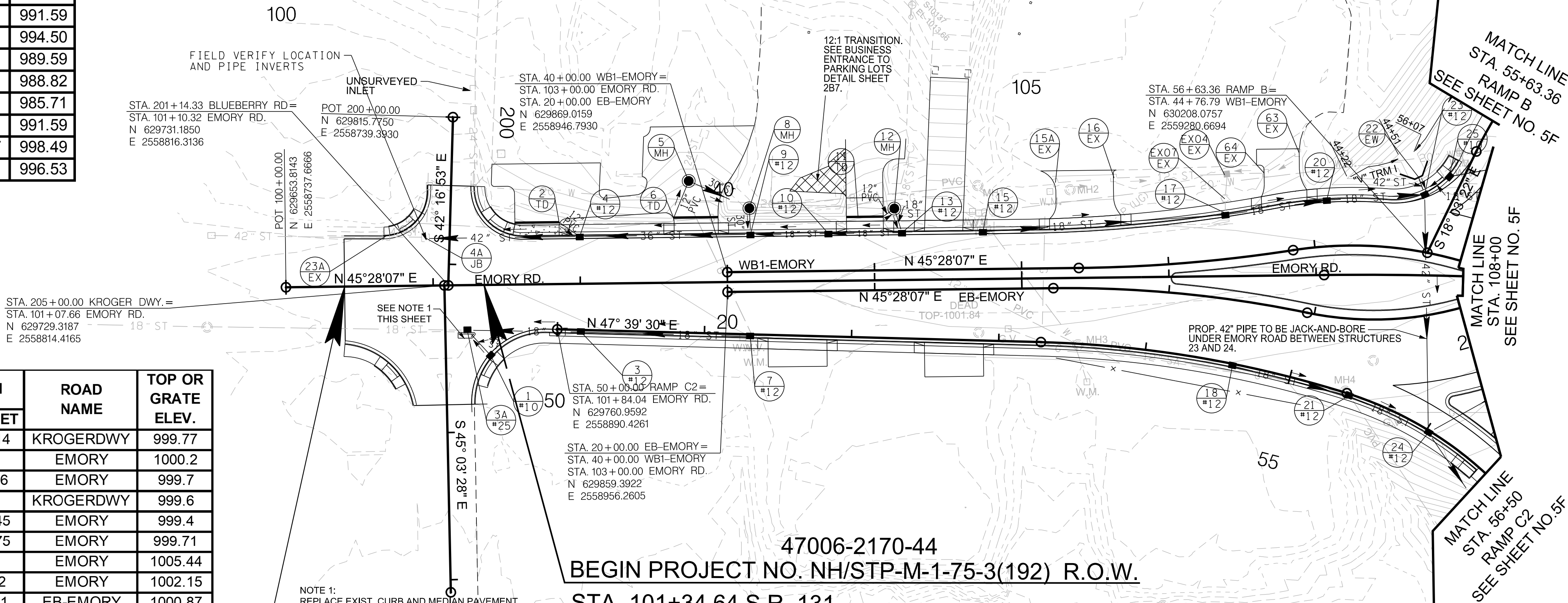
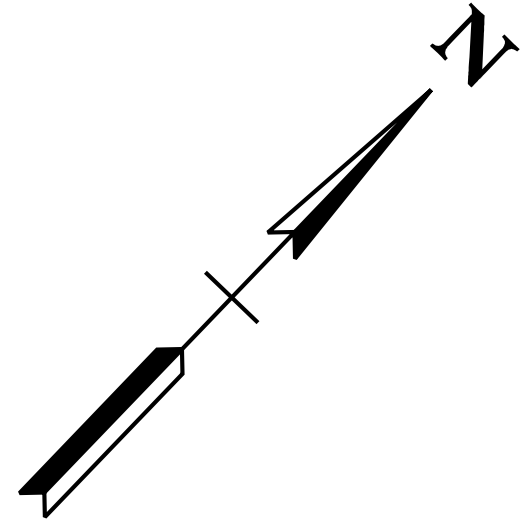
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KATHLEEN C. HOLMES
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
08-07-2025

COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PIPE CULVERTS			
FROM		TO	
NO.	ELEV.	NO.	ELEV.
1	995.20	3A	994.76
2	997.20	4	996.23
3	995.64	3A	994.76
3A	994.66	3B	993.86
4	993.02	4A	992.23
5	996.60	8	996.20
6	999.15	5	999.00
7	996.98	3	995.81
8	995.95	9	995.45
9	994.62	4	993.52
10	996.78	9	996.30
11	999.10	12	998.96
12	998.58	13	997.61
13	997.40	10	996.95
15	997.33	17	996.53
17	996.53	20	996.21
18	996.90	21	995.65
20	996.21	23	991.59
21	995.55	24	994.50
22	991.37	23	989.59
23	989.59	24	988.82
24	988.82	96	985.71
25	992.87	23	991.59
EX-04	998.55	EX-07	998.49
EX-07	997.79	17	996.53

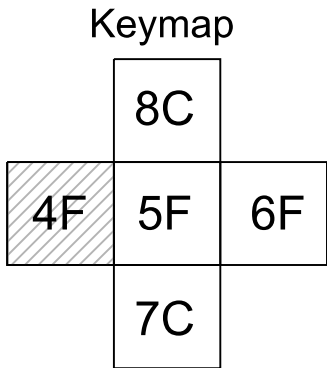


STRUCTURE LOCATION			ROAD NAME	TOP OR GRATE ELEV.
NO.	STATION	OFFSET		
1	205+48.96	-31.14	KROGERDWY	999.77
2	101+71.00	-42	EMORY	1000.2
3	102+00.00	33.36	EMORY	999.7
3A	205+31.40	-15	KROGERDWY	999.6
4A	100+95.20	-32.45	EMORY	999.4
4	102+00.00	-32.75	EMORY	999.71
5	102+74.50	-69	EMORY	1005.44
6	102+79.00	-44.2	EMORY	1002.15
7	20+15.00	31.01	EB-EMORY	1000.87
8	103+15.50	-50	EMORY	1006.6
9	40+16.00	-26	WB1-EMORY	1000.73
10	40+69.00	-26	WB1-EMORY	1001.21
11	40+93.90	-36.5	WB1-EMORY	1002.1
12	41+14.00	-41.87	WB1-EMORY	1003.65
13	41+19.00	-26	WB1-EMORY	1001.55
15A	105+22.74	-64.58	EMORY	1003.69
15	41+74.00	-26	WB1-EMORY	1001.8
16	42+65.75	-60.54	WB1-EMORY	1003.98
17	43+42.00	-30.6	WB1-EMORY	1001.65
18	23+50.00	45.1	EB-EMORY	1000.8
20	44+10.00	-32	WB1-EMORY	1001.25
21	55+41.89	1.89	RAMPC2	1000.65
23A	100+68.34	-33.99	EMORY	998.98
23	56+28.00	19.4	RAMPB	1000.94
24	56+02.00	2	RAMPC2	998.96
25	56+10.00	9.85	RAMPB	1000.67
63	43+96.50	-65	WB1-EMORY	1002.82
64	43+73.00	-54.65	WB1-EMORY	1002.8
EX-04	43+46.30	-57.34	WB1-EMORY	1001.72
EX-07	43+42.28	-41.19	WB1-EMORY	1001.72

47006-3170-44
BEGIN PROJECT NO. NH/STP-M-1-75-3(192) CONST.
STA. 100+39.85 S.R. 131
N 629681.7611 E 2558766.0744

47006-2170-44
BEGIN PROJECT NO. NH/STP-M-1-75-3(192) R.O.W.
STA. 101+34.64 S.R. 131
N 629748.2348 E 2558833.6446

INSTALLATION OF STORM DRAINAGE
ON SOUTH SIDE OF EMORY ROAD
AND ON RAMPS C AND D TO BE
COORDINATED WITH THE GAS
LINE INSTALLATION.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	4F
PS&E	2025	NH/STP-M-I-75-3(192)	4F

KNOX CO. I-75 AT SR-131

REV. 02/23/2023; REVISED DRAINAGE STRUCTURES AND PIPES AT THE BEGINNING OF THE PROJECT, INCLUDING STRUCTURES 1, 4, 4A, 5, 7, 8, 9.

REV. 10/25/2023; REMOVED STRUCTURE NO. 14 ON WAFFLE HOUSE SITE AND CONNECTING PIPE TO STRUCTURE 10.

REV. 07/02/2025; REVISED NOTE FOR 42" JACK-AND-BORE PIPE.

REV. 08/07/2025; REVISED DRAIN TABS FOR PIPES 2-4, 6-5, AND 11-12. ADDED NOTE 1.

SEALED BY

08-07-2025

COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

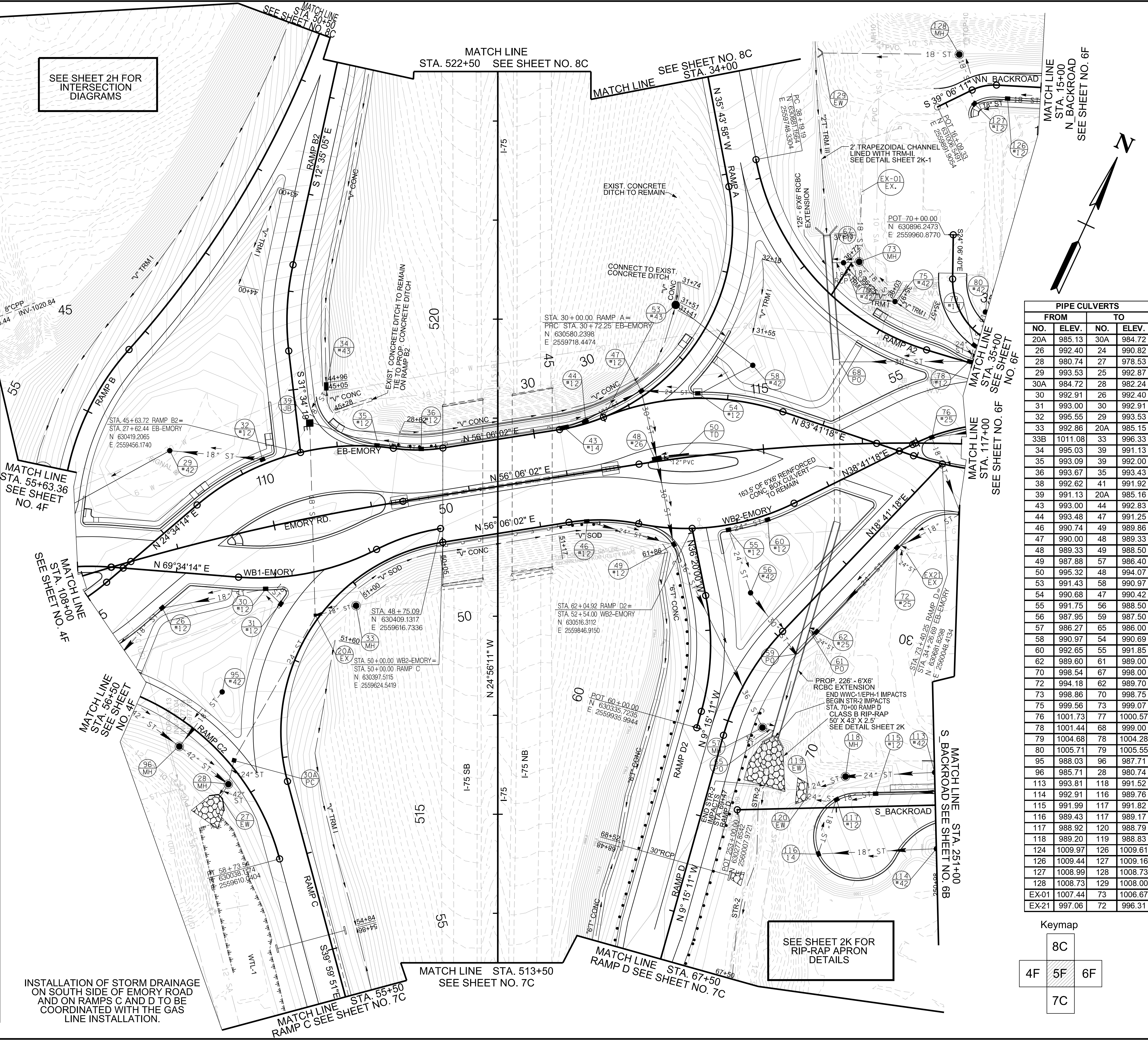
GRADING AND DRAINAGE LAYOUT

STA.100+00 TO STA.108+00
SCALE: 1"=50'

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STRUCTURE LOCATION			ROAD NAME	TOP OR GRATE ELEV.
NO.	STATION	OFFSET		
20A	51+50.46	4.14	RAMPC	1022
26	25+50.00	57	EB-EMORY	999.62
28	57+80.00	14	RAMPC2	992
29	26+56.00	-60	EB-EMORY	998
30A	57+64.38	-5.42	RAMPC2	993.15
30	46+90.00	12	WB1-EMORY	997.95
31	51+60.00	40	RAMPC	997.47
32	27+24.00	-6	EB-EMORY	1000.02
33	51+14.27	-20.35	RAMPC	998
34	45+00.50	-33.5	RAMPB2	999.5
35	28+40.00	-2	EB-EMORY	998.14
36	28+85.00	-2	EB-EMORY	997.56
39	45+35.34	-12.65	EB-EMORY	996
43	30+31.00	-2.1	EB-EMORY	997.07
44	30+54.00	-3.87	EB-EMORY	997.3
46	51+47.00	2	WB2-EMORY	996.47
47	30+47.00	-6	RAMPA	998.13
48	31+16.00	57	EB-EMORY	998.13
49	61+92.00	-22.22	RAMPD2	995.89
50	31+44.71	56	EB-EMORY	998.32
53	31+46.00	-37.5	RAMPA	996.3
54	31+70.00	-6	EB-EMORY	999.51
55	52+90.00	6	WB2-EMORY	996.3
56	61+30.00	45	RAMPD2	993
57	70+05.76	35	RAMPD	992
58	32+19.00	-38	EB-EMORY	998.5
59	78+98.52	25.5	RAMPD	987.5
60	53+30.00	6	WB2-EMORY	997.11
61	71+26.00	18.59	RAMPD	989
62	71+30.00	26.1	RAMPD	995.77
65	70+07.00	46.91	RAMP D	986
67	36+84.00	23.46	RAMPA2	998
68	36+16.42	-48.59	RAMPA2	999
70	36+75.00	32	RAMPA2	1002.8
72	72+47.50	26.1	RAMPD	1000.74
73	36+62.50	43.8	RAMPA2	1008.8
75	36+00.00	32.6	RAMPA2	1003.5
76	55+15.00	2	WB2-EMORY	1005.72
78	35+03.00	2	RAMPA2	1008.81
79	71+11.50	12.57	FRONTAGE-B	1009.96
80	70+96.00	-21	FRONTAGE-B	1009.65
95	57+13.00	-47	RAMPC2	992.5
96	57+13.00	23	RAMPC2	992.6
113	251+00.00	33.1	S BACKROAD	998.5
114	251+00.00	-44	S BACKROAD	996.8
115	251+60.00	14	S BACKROAD	998
116	252+20.00	-46.7	S BACKROAD	994.37
117	252+00.00	8.85	S BACKROAD	996.02
118	251+90.00	31	S BACKROAD	996
126	15+33.00	-14	N BACKROAD	1014.15
127	15+74.00	-14.44	N BACKROAD	1013.92
128	15+68.00	38	N BACKROAD	1020.5
EX-01	37+36.80	89.3	RAMPA2	1012.34
EX-21	72+50.00	34.9	RAMPD	1001.65

INSTALLATION OF STORM DRAINAGE
ON SOUTH SIDE OF EMORY ROAD
AND ON RAMPS C AND D TO BE
COORDINATED WITH THE GAS
LINE INSTALLATION.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	5F
PS&E	2025	NH/STP-M-I-75-3(192)	5F

KNOX CO. I-75 AT SR-131

REV. 09/04/2024: REVISED STRUCTURES 127 AND 128 AND HEADWALL 129.

REV. 07/02/2025: DELETED STRUCTURES 37, 38, 41, 42, 43 AND PIPES, REVISED STRUCTURES 34, 35, 36, 44, 47 AND PIPES, REVISED DRAINAGE TABULATIONS.

REV. 08/07/2025: REVISED DRAIN TABS FOR PIPES 50-48, 126-127 AND 127-128. REVISED STR. 127.

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KATHLEEN C. HOLMES
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
NOV. 1985

08-07-2025

COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GRADING AND DRAINAGE LAYOUT

STA.108+00 TO STA.117+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	6F
PS&E	2025	NH/STP-M-I-75-3(192)	6F

KNOX CO. I-75 AT SR-131

REV. 02/23/2023; REVISED PROPOSED DRAINAGE ON FRONTAGE ROAD.

REV. 01/24/2024; ADDED RETAINING WALL 2, BARRIER WALL AND GUARDRAIL.

REV. 06/14/2024; ADDED STRUCTURES 81 AND 87, REVISED STRUCTURES 85 AND 86.

REV. 07/02/2025; REVISED LABEL FOR STR. 87.

REV. 08/07/2025; REVISED STRUCTURES 84A AND 105.

PIPE CULVERTS		
FROM	TO	
NO.	ELEV.	NO. ELEV.
77	1000.47	72 996.25
81	1010.44	87 1010.12
82	1005.90	82B 1005.50
82A	1006.97	82B 1006.56
82B	1005.29	79 1005.01
83	1009.78	99 1009.52
84	1004.48	78 1001.94
84A	1013.37	84 1010.11
85	1007.13	91 1006.07
85A	1008.00	85 1007.25
86	1007.71	85A 1007.65
87	1009.91	85A 1008.41
88	1008.79	86 1008.21
91	1005.86	84 1004.73
92	1010.56	91 1010.47
97	1014.90	84A 1014.81
97A	1014.14	84A 1013.62
98	1007.70	82 1006.70
98A	1008.02	82A 1007.09
99	1009.27	82 1006.15
100	1005.79	77 1000.57
101	998.15	102 997.87

PIPE CULVERTS		
FROM	TO	
NO.	ELEV.	NO. ELEV.
102	997.70	103 996.17
103	995.96	104 995.09
104	994.92	107 994.83
105	998.52	106 997.97
106	994.08	108 994.03
107	994.50	106 994.41
108	993.87	112 993.09
109	998.52	107 997.97
111	995.99	113 994.02
112	992.91	115 992.16
121	1022.15	122 1020.71
122	1020.54	123 1016.05
123	1015.88	124 1010.47
125	1010.35	124 1010.14
131	1009.88	100 1005.89
133	1004.21	76 1001.83
EX-02	1012.64	81 1010.65
EX-08	1011.16	83 1009.95
EX-16	1010.32	86 1008.95

47006-3170-44
END PROJECT NO. NH/STP-M-1-75-3(192) CONST.
STA. 123+52.86 S.R. 131
N 630922.7813 E 2558766.0744

47006-2170-44
END PROJECT NO. NH/STP-M-1-75-3(192) R.O.W.
STA. 123+72.00 S.R. 131
N 630929.5624 E 2560691.6817

STRUCTURE LOCATION			ROAD NAME	TOP OR GRATE ELEV.
NO.	STATION	OFFSET		
77	34+52.00	47	EB-EMORY	1004.46
81	60+34.00	-62.7	WB2-EMORY	1021
82A	71+45.00	-12	FRONTAGE-B	1010.98
82B	71+45.00	12	FRONTAGE-B	1010.5
82	71+90.00	12	FRONTAGE-B	1010.68
83	72+80.75	-12	FRONTAGE-B	1014.38
84A	73+69.00	-12	FRONTAGE-B	1018.36
84	58+05.00	-42.24	WB2-EMORY	1014.64
85A	122+22.00	-49.13	EMORY	1013.36
85	60+36.78	-38	WB2-EMORY	1013.88
86	214+52.00	39.9	CONNER	1013.36
87	214+35.00	55	CONNER	1017.5
88	214+58.00	-24.9	CONNER	1012.68
91	59+25.00	-39.55	WB2-EMORY	1015.16
92	59+25.00	-52.7	WB2-EMORY	1014.5
97	73+59.00	-19.5	FRONTAGE-B	1018.79
97A	74+21.90	-41.44	FRONTAGE-B	1018.81
98A	71+46.00	-28.1	FRONTAGE-B	1013.68
98	72+00.73	-22.51	FRONTAGE-B	1012.62
98B	72+38.36	-45.56	FRONTAGE-B	1013.18
99	72+80.00	12	FRONTAGE-B	1014.05
100	36+65.47	40.4	EB-EMORY	1012.2
101A	245+38.33	28.27	S_BACKROAD	1002.66
101	245+60.00	-14	S_BACKROAD	1002.04
102	245+77.00	14	S_BACKROAD	1002.37
103	247+34.00	28.5	S_BACKROAD	1001.5
104	248+15.00	-14	S_BACKROAD	1002.41
105	248+15.00	14	S_BACKROAD	1002.41
106	248+30.00	14	S_BACKROAD	1002.38
107	248+30.00	-14	S_BACKROAD	1002.38
108	248+45.00	14	S_BACKROAD	1002.41
109	248+45.00	-14	S_BACKROAD	1002.41
111	249+50.00	27.3	S_BACKROAD	1003
112	250+05.00	14	S_BACKROAD	1002.75
121	11+50.00	-14	N_BACKROAD	1026.04
122	12+14.00	-14	N_BACKROAD	1025.12
123	14+00.00	-14	N_BACKROAD	1019.94
124	14+93.00	-14	N_BACKROAD	1014.41
125	14+93.00	14	N_BACKROAD	1014.76
131	39+34.80	38	EB-EMORY	1013.77
133	56+00.00	2	WB2-EMORY	1008.99
EX-08	72+80.75	-21.93	FRONTAGE-B	1013.2
EX-16	214+17.00	21	CONNER	1014.21

Keymap

	8C	
4F	5F	6F
	7C	

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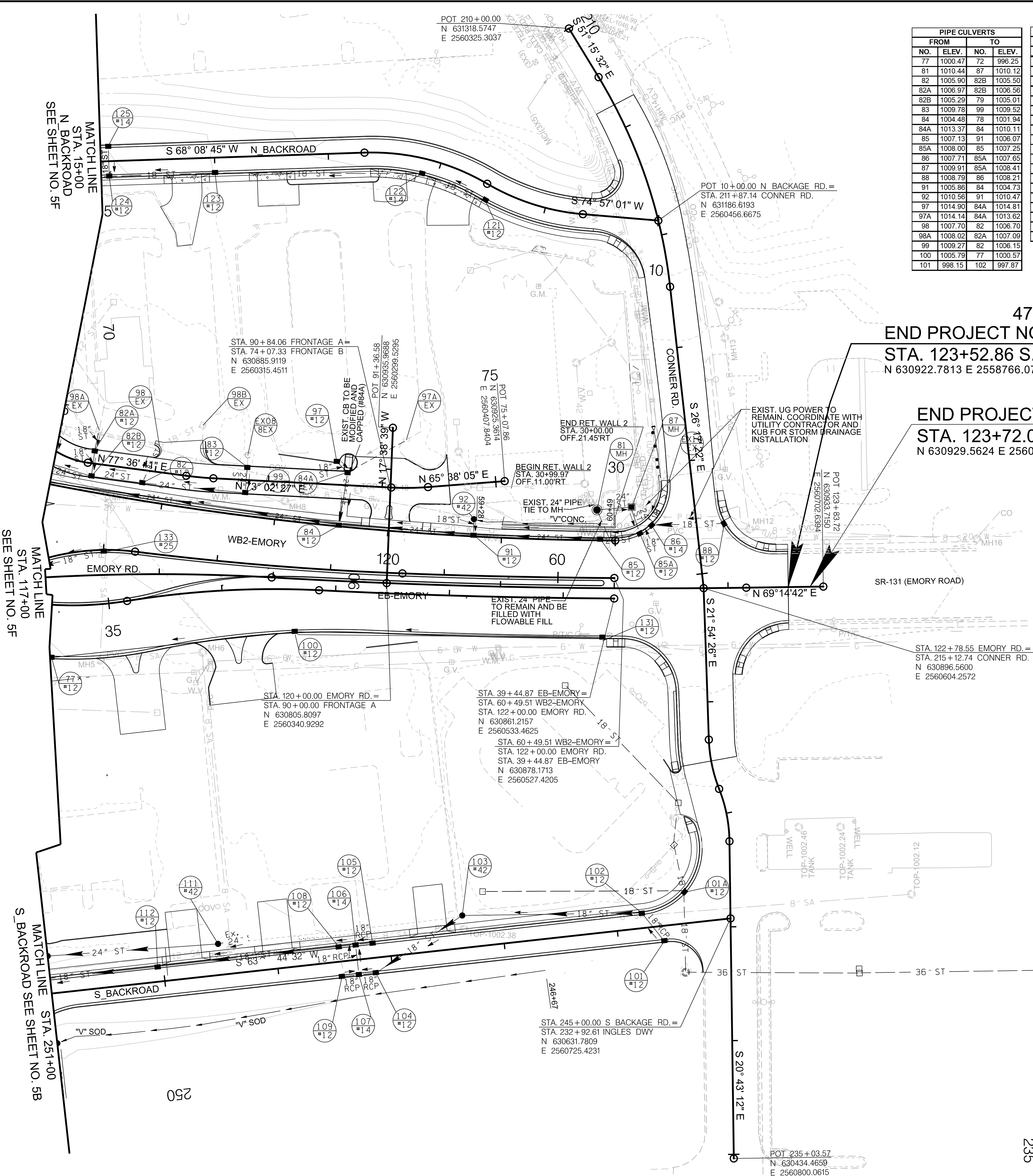


COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

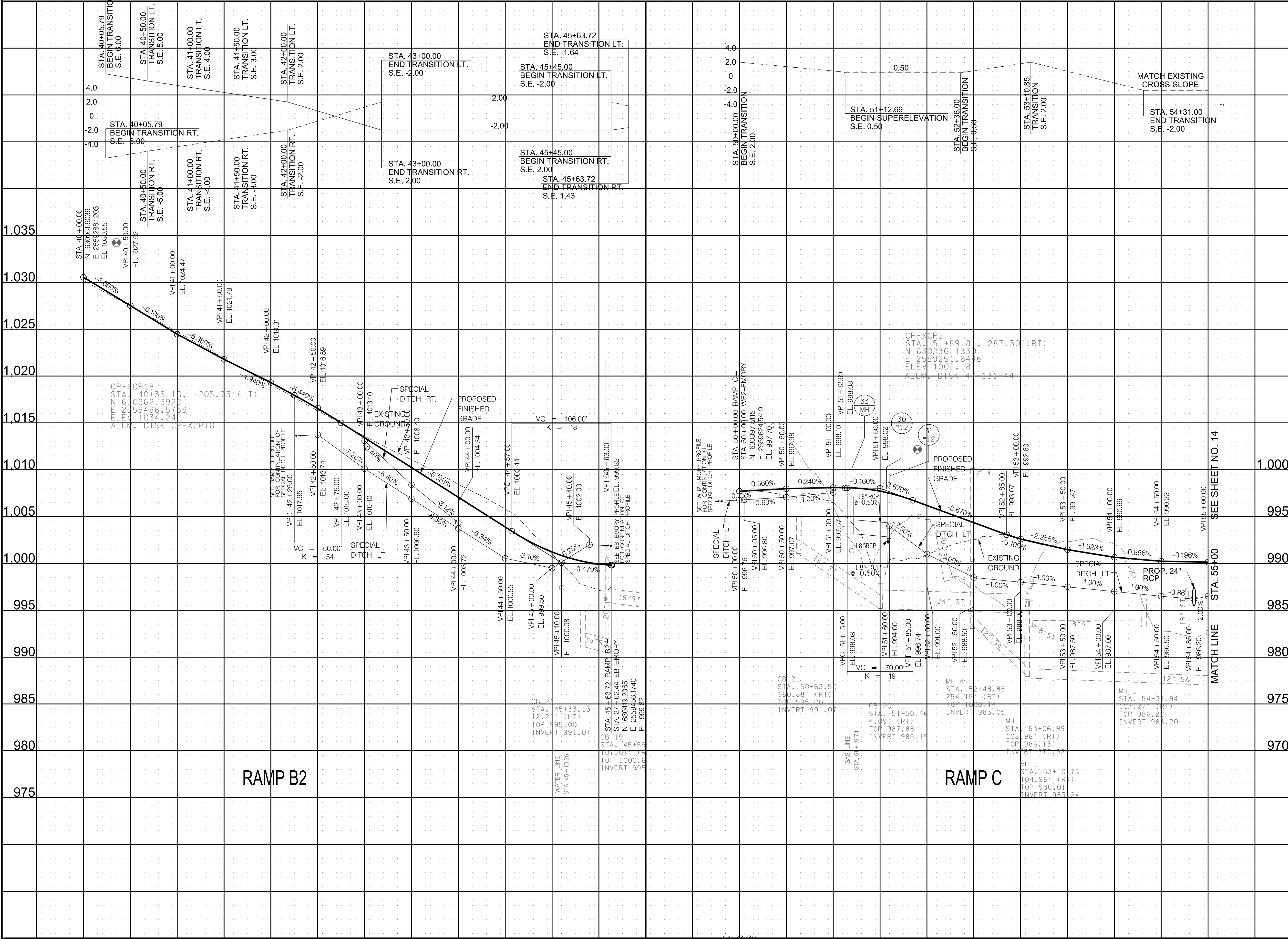
GRADING AND DRAINAGE LAYOUT

STA.117+00 TO STA.123+52.86
SCALE: 1"=50'



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	13
PS&E	2025	NH/STP-M-I-75-3(192)	13

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; ADDED 24" CROSS-DRAIN ON RAMP C PROFILE.

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KATHLEEN C. HOLMES
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
08-07-2025

COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

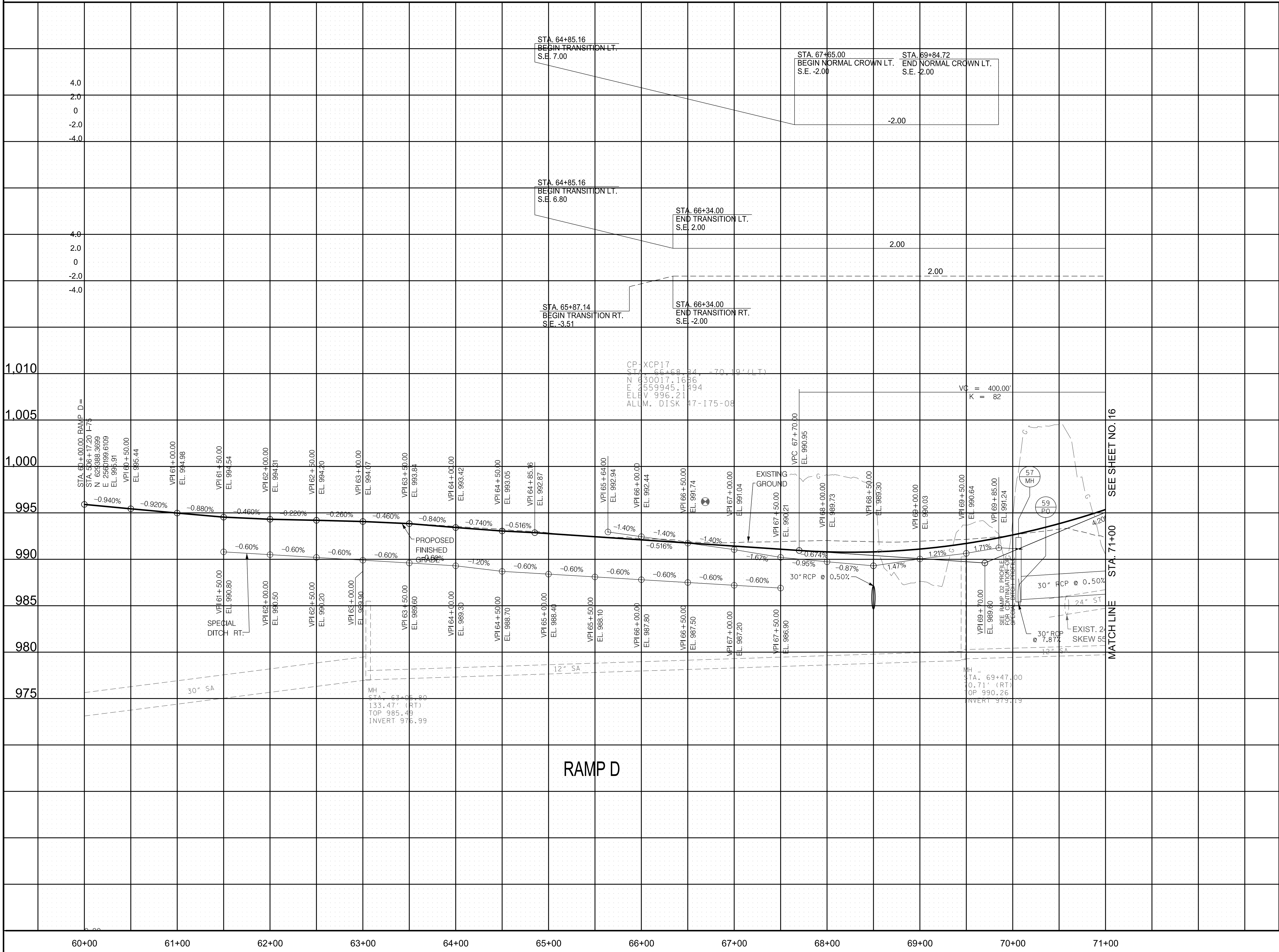
RAMP
PROFILE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	15
PS&E	2025	NH/STP-M-I-75-3(192)	15

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; UPDATED CROSS-DRAIN
ON RAMP D PROFILE.

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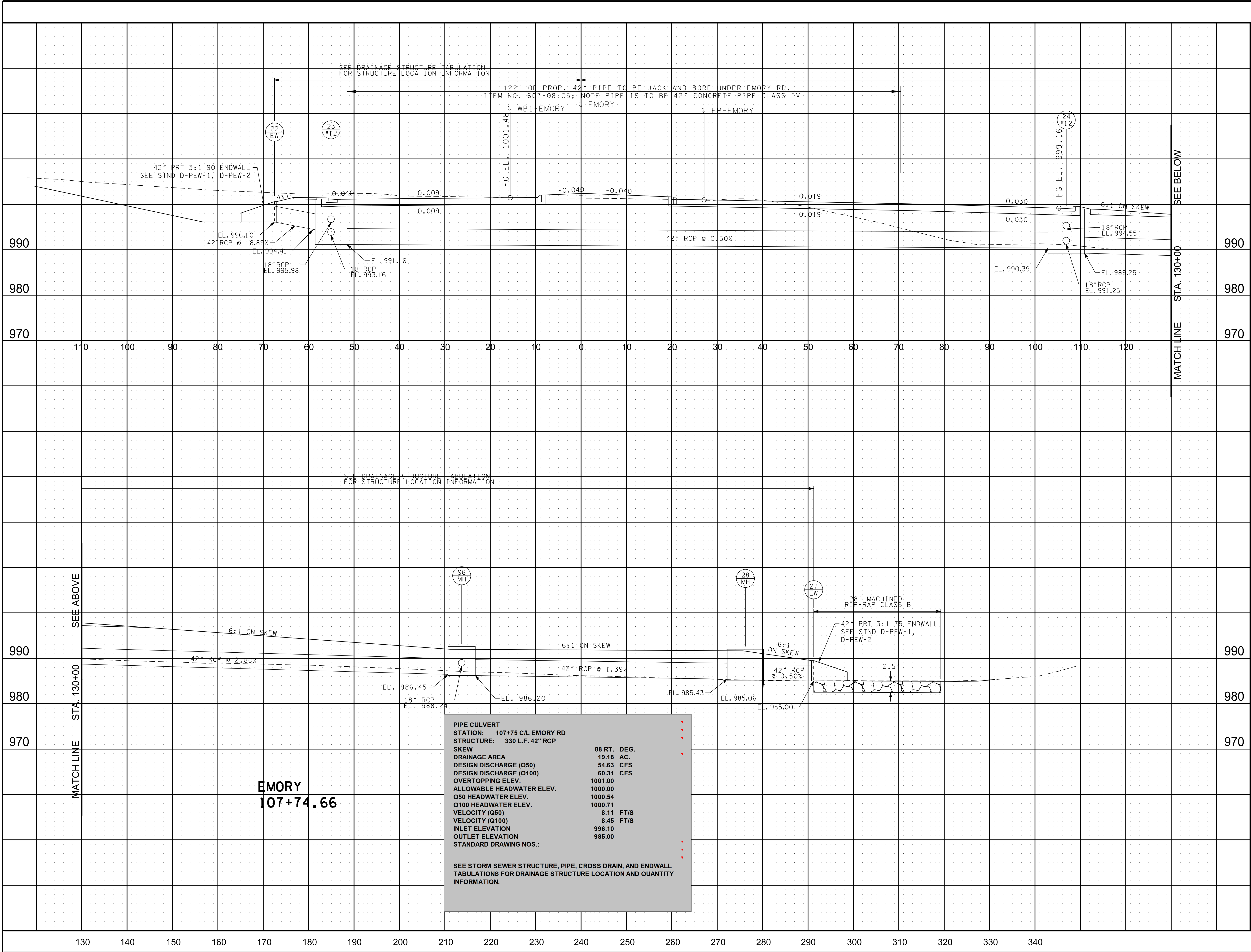
COORDINATE VALUES ARE TENNESSEE STATE PLANE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RAMP PROFILE

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	20
PS&E	2025	NH/STP-M-I-75-3(192)	20

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; UPDATED NOTES FOR 42" JACK AND BORE SECTION.

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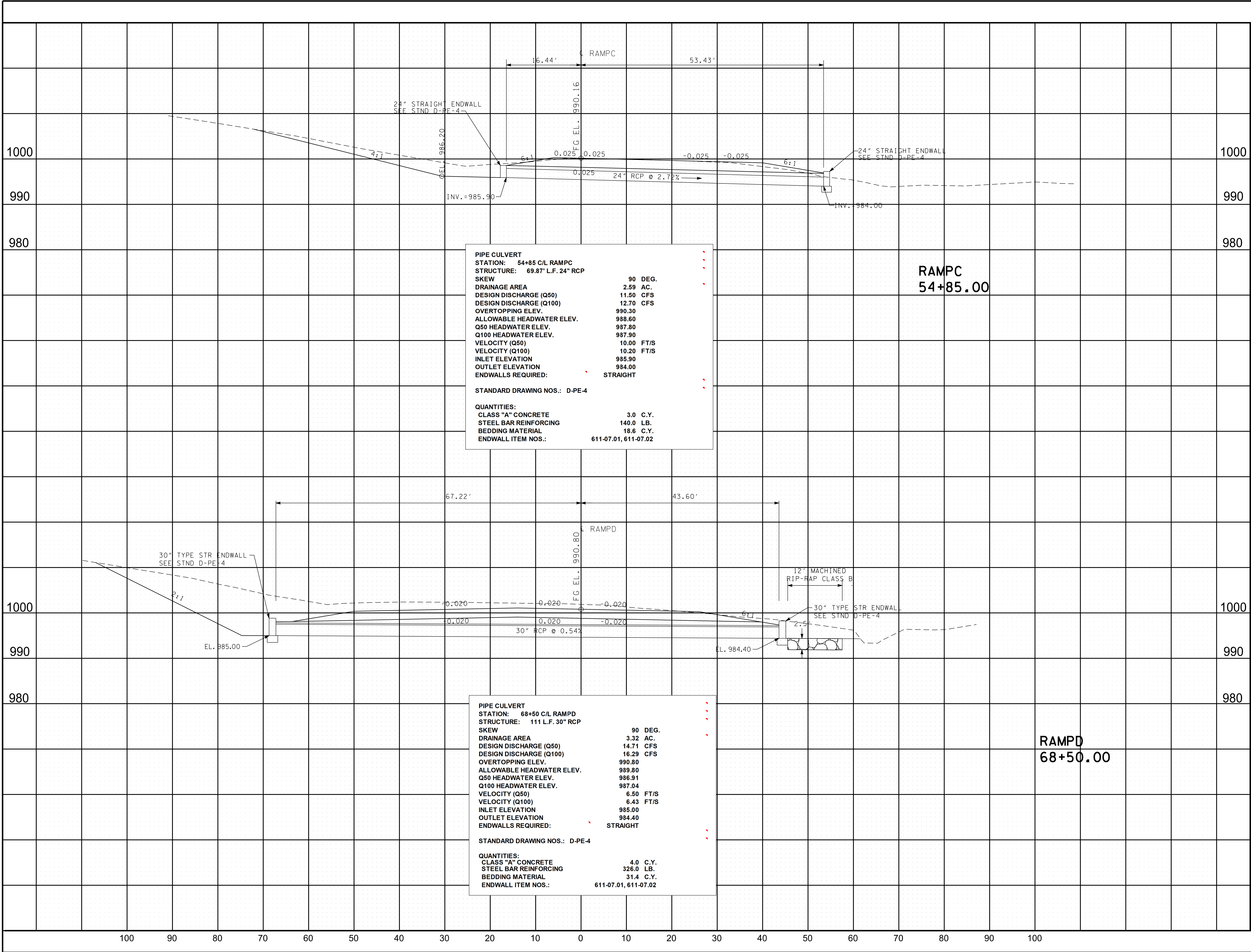
08-07-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2022	NH/STP-M-I-75-3(192)	22
PS&E	2025	NH/STP-M-I-75-3(192)	22

KNOX CO. I-75 AT SR-131

REV. 08/07/2025; UPDATED DRAINAGE BLOCK DATA FOR RAMP C AND RAMP D PIPES.

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08-07-2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

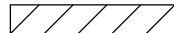
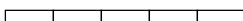
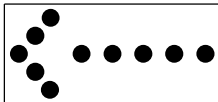
SCALE: 1"= 10' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	T2

KNOX CO. I-75 AT SR-131

REV. 07/02/2025; REVISED MAINTENANCE
OF TRAFFIC QUANTITY TABULATION.

REV. 08/07/2025; REVISED MAINTENANCE
OF TRAFFIC QUANTITY TABULATION.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)
	CHANGEABLE MESSAGE SIGN
	TEMPORARY BARRICADE (TYPE III)
 A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
 C	WARNING LIGHT (TYPE C) (LOW-INTENSITY FLASHING)

TRAFFIC CONTROL SPECIAL NOTES

THIS TRAFFIC CONTROL PLAN IS PROVIDED AS A GUIDE TO THE CONTRACTOR AND IS NOT INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH "THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.

THE CONSTRUCTION SIGNING PLAN IS TO SERVE AS A GUIDE ONLY; OTHER SIGN AND DEVICES MAY BE REQUIRED DURING THE DIFFERENT PHASES OF THE CONSTRUCTION.

EACH PHASE OF THE SUGGESTED SEQUENCE OF CONSTRUCTION, FOR WHICH THESE TRAFFIC CONTROL PLANS WERE DESIGNED, REQUIRES THE TIMELY COMPLETION OF THE PRECEDING PHASE. ANY VARIATION IN THE PROPOSED PHASING SHALL REQUIRE A REVIEW AND APPROVAL OF THE SIGNING AND TRAFFIC CONTROL DEVICES BY THE T.D.O.T. MANAGER.

THE CONTRACTOR IS REQUIRED TO PROVIDE PAVED DETOURS AND LANE SHIFTS WHERE NECESSARY TO ROUTE TRAFFIC AROUND CONSTRUCTION.

NO TRAFFIC SHALL BE DETOURED, OR ROAD CLOSED, ABANDONED, OR REMOVED WITHOUT THE PRIOR APPROVAL OF THE T.D.O.T. MANAGER.

THE SUGGESTED CONSTRUCTION PROCEDURE DOES NOT ITEMIZE OR DISCUSS ALL ELEMENTS OF WORK REQUIRED UNDER THIS CONTRACT.

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

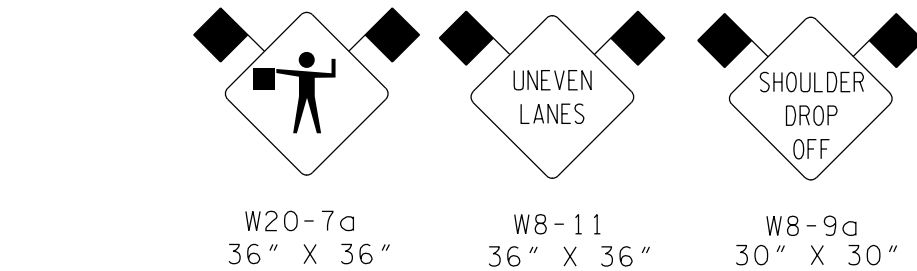
PERMANENT SIGNS SHALL BE IN PLACE BEFORE COMPLETED ROADWAYS ARE OPENED TO TRAFFIC.

TWO FLAGS ARE TO BE MOUNTED ON EACH ADVANCE WARNING SIGN. FLAGS ARE TO BE 1.5 FT X 1.5 FT AND FLUOUERESCENT RED-ORANGE IN COLOR. COST OF THE FLAGS IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

	TABULATION OF MAINTENANCE OF TRAFFIC DEVICES AND SIGNS (CONSTRUCTION)			
	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
T8	209-09.01	SANDBAGS	100	BAGS
	621-03.02	18" TEMPORARY DRAINAGE PIPE	45	LF
	712-01	TRAFFIC CONTROL	1	LS
T5	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	8132	LF
	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	10	EACH
T1	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	662	EACH
T1	712-04.50	BARRIER RAIL DELINEATOR	92	EACH
T2	712-05.01	WARNING LIGHTS (TYPE A)	199	EACH
	712-06	SIGNS (CONSTRUCTION)	748	SF
	712-07.03	TEMPORARY BARRICADES (TYPE III)	336	LF
	712-08.03	ARROW BOARD (TYPE C)	4	EACH
T1	712-08.12	QUEUE PROTECTION TRUCK	50	DAY
T4	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	11	EACH
	716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	1212	SY
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	1231	LF
	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	93	EACH
	716-05.49	PAINTED PAVEMENT MARKING (8" LINE)	14.1	LM
T7	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	74448	LF
T6	716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	14.1	LM
T3	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	3	EACH

FOOTNOTES

T1	MAY BE INCREASED OR DECREASED BY THE T.D.O.T. MANAGER.
T2	MAY BE INCREASED OR DECREASED BY THE T.D.O.T. MANAGER.
T3	TO BE USED FOR THE CONSTRUCTION OF TEMPORARY SIGNALIZED INTERSECTIONS AT EMORY ROAD AND RAMPS B/C, AND EMORY ROAD AND RAMPS A/D, AND EMORY ROAD AND CONNOR ROAD DURING THE VARIOUS PHASES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. ITEM INCLUDES THE INSTALLATION AND REMOVAL OF WOOD POLES, SPAN WIRE, TETHER WIRE IF NEEDED, SIGNAL HEADS, ADJUSTMENT OF SIGNAL HEADS, RADAR DETECTION AND PRE-EMPTION DEVICES, CONTROLLER CABINETS, PULL BOXES, CONDUIT, CONDUCTOR CABLE FOR SIGNAL HEADS, GUYING ANCHORS, AND ANY OTHER SIGNAL RELATED EQUIPMENT NEEDED TO INSURE A FULLY OPERATIONAL SIGNALIZED INTERSECTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PROPOSED EQUIPMENT THAT MAY BE USED FROM DAMAGES AT ALL TIMES DURING THE TEMPORARY USE THEREOF. FOR PLACEMENT SEE SHEETS T4F AND T6. THE PAYMENT OF EACH REPRESENTS ALL ADJUSTMENTS NECESSARY FOR THE INTERSECTION PER PHASE.
T4	ITEM INCLUDES 3 PORTABLE MESSAGE BOARDS TO BE USED FOR STOPPED TRAFFIC ON I-75.
T5	WHERE RADIUS IS LESS THAN 230-FT, 10-FT PORTABLE CONCRETE BARRIERS SHALL BE USED PER STANDARD DRAWING TWZ-PCB-1.
T6	FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION OVER THE PAINTED PAVEMENT ON EMORY ROAD SHIFTS.
T7	FOR REMOVAL OF SPRAY THERMO ON EMORY AND PAVEMENT MARKING REMOVALS ON RAMPS.
T8	TO BE USED BEHIND PORTABLE BARRIER RAIL INSTALLED ON RADIUS.



NOTES: SHOULDER DROP-OFF, UNEVEN LANES, FLAGGER AHEAD
SIGNS, AND ONE LANE ROAD AHEAD SIGNS TO BE USED WHEN
CONSTRUCTION OPERATIONS WARRANT. TO BE LOCATED AS
DIRECTED BY THE ENGINEER.

WHEN TRAFFIC IS RESTRICTED TO ONE LANE, THE CONTRACTOR IS TO HAVE TWO FLAGGERS ON THE PROJECT. TRAFFIC CONTROL SIGNING FOR THIS OPERATION TO BE INSTALLED IN ACCORDANCE WITH STD. DWG. T-WZ-36. COST OF THE FLAGGER IS TO BE INCLUDED IN ITEM NO. 712-01.

CONSTRUCTION SIGN SCHEDULE						
SIGN CODE	DESCRIPTION	SIGN DIMENSIONS	AREA IN SQ. FT.	NO. REQ'D	AREA REQ'D (SQ.FT.)	
W20-1	ROAD WORK AHEAD	48in X 48in	16.0	19	304.0	
G20-1	ROAD WORK NEXT XX MILES	36in X 18in	4.5	6	27.0	
G20-2	END ROAD WORK	48in X 24in	8.0	6	48.0	
R1-1	YIELD	48IN X 48IN	10.4	3	31.2	
W4-2R	RIGHT LANE DROP	48IN X 48IN	16.0	4	64.0	
W20-1	ROAD WORK AHEAD	36in X 36in	9.0	2	18.0	
W20-7A	FLAGGER	48in X 48in	16.0	4	64.0	
W5-1	ROAD NARROWS	48in X 48in	16.0	4	64.0	
W8-11 MOD	UNEVEN LANES WITH SYMBOL	48in X 48in	16.0	4	64.0	
W8-9A	SHOULDER DROP OFF	48in X 48in	16.0	4	64.0	
R11-1	ROAD CLOSED	48in X 30in	10.0	10	100.0	
M4-9L	DETOUR LEFT	30in X 24in	5.0	4	20.0	
M4-9R	DETOUR RIGHT	30in X 24in	5.0	6	30.0	
TN-6D	STATE ROUTE	30in X 24in	5.0	10	50.0	
M3-2	EAST	24in X 12in	2.0	5	10.0	
M3-4	WEST	24in X 12in	2.0	5	10.0	
TOTAL AREA REQ'D:					748.2	

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Kathleen C. Holmes

08-07-2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PHASING NOTES, LEGEND AND TABULATION

RAMP A

SHIFT TRAFFIC TO THE WEST SIDE OF THE EXISTING RAMP,
CONSTRUCT RAMP A WIDENING, DRAINAGE AND
PAVEMENT. SEE SHEET T4C FOR DETAILS.

RAMP B

SHIFT TRAFFIC TO THE EAST SIDE OF THE EXISTING RAMP,
CONSTRUCT RAMP B WIDENING, DRAINAGE AND
PAVEMENT. SEE SHEET T4C FOR DETAILS.

RAMP C

SHIFT TRAFFIC TO THE EAST SIDE OF THE EXISTING RAMP,
CONSTRUCT RAMP C WIDENING, DRAINAGE AND PAVEMENT.
SEE SHEET T4D FOR DETAILS.

NOTE: A DELAY PERIOD OF ONE MONTH IS RECOMMENDED AFTER
PLACING THE FILL TO FINISH SUBGRADE ELEVATION AT
RAMP C AND RAMP C2 BEFORE BEGINNING PAVEMENT
OPERATIONS. SEE GEOTECHNICAL REPORT AND
GEOTECHNICAL PLAN SHEETS G4 THROUGH G5.

RAMP D

SHIFT TRAFFIC TO THE WEST SIDE OF THE EXISTING RAMP,
CONSTRUCT RAMP D WIDENING, DRAINAGE AND PAVEMENT.
SEE SHEET T4D FOR DETAIL.

EMORY ROAD

SHIFT TRAFFIC TO THE CENTER OF THE EXISTING PAVEMENT,
CONSTRUCT EMORY ROAD WIDENING, DRAINAGE AND
PAVEMENT.SEE SHEET T4E FOR DETAILS.

BACKAGE ROADS

CONSTRUCT THE NORTH AND SOUTH BACKAGE ROADS.
MAINTAIN ACCESS TO STARBUCKS, KRystal,
MCDONALDS AND CVS FROM EMORY ROAD USING EXISTING DRIVEWAYS.
SEE SHEETS T4, T4D, T4F-1 AND T4F3 FOR DETAILS.

SIGNALS

INSTALL TEMPORARY SIGNAL POLES AT EMORY ROAD AND RAMP C.
USE EXISTING SIGNAL POLES AT EMORY ROAD AND RAMP B WITH TEMPORARY SIGNAL
POLES AT EMORY ROAD AND RAMP C, INSTALL TEMPORARY SIGNAL HEADS AS NEEDED.

INSTAL TEMPORARY SIGNAL POLES AT EMORY ROAD AND RAMP A.
INSTALL TEMPORY SIGNAL POLES AT EMORY ROAD AND RAMP D.
INSTALL TEMPORARY SIGNAL HEADS AS NEEDED.
FOR UPDATED SIGNAL TIMING DURING THIS PHASE, PLEASE CONTACT
JOHN GOULD (CDM SMITH) AT 865-963-4300 A MINIMUM OF 1 WEEK
PRIOR TO IMPLEMENTATION.

FIELD OFFICE

FIELD OFFICE TO BE LOCATED OFF THE SOUTH BACKAGE ROAD
WITHIN EXISTING ROW SUCH THAT IT WILL NOT IMPEDE WITH
THE CONSTRUCTION OR FUNCTION OF THE BACKAGE ROAD. IT
WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE
THIS FACILITY AS SOON AS POSSIBLE IN PHASE 1. A LOCATION
FOR THE PLACEMENT OF THE FIELD OFFICE SHOULD BE
DETERMINED BY THE CONTRACTOR AND A PLAN VIEW LAYOUT
SUBMITTED TO THE PROJECT TEAM LEAD WITHIN 14 DAYS OF
THE PRE-CONSTRUCTION CONFERENCE FOR REVIEW AND
APPROVAL BY THE TDOT DISTRICT MANAGER.

PHASE 1 OVERVIEW



CONSTRUCTION AREAS IN PHASE 1



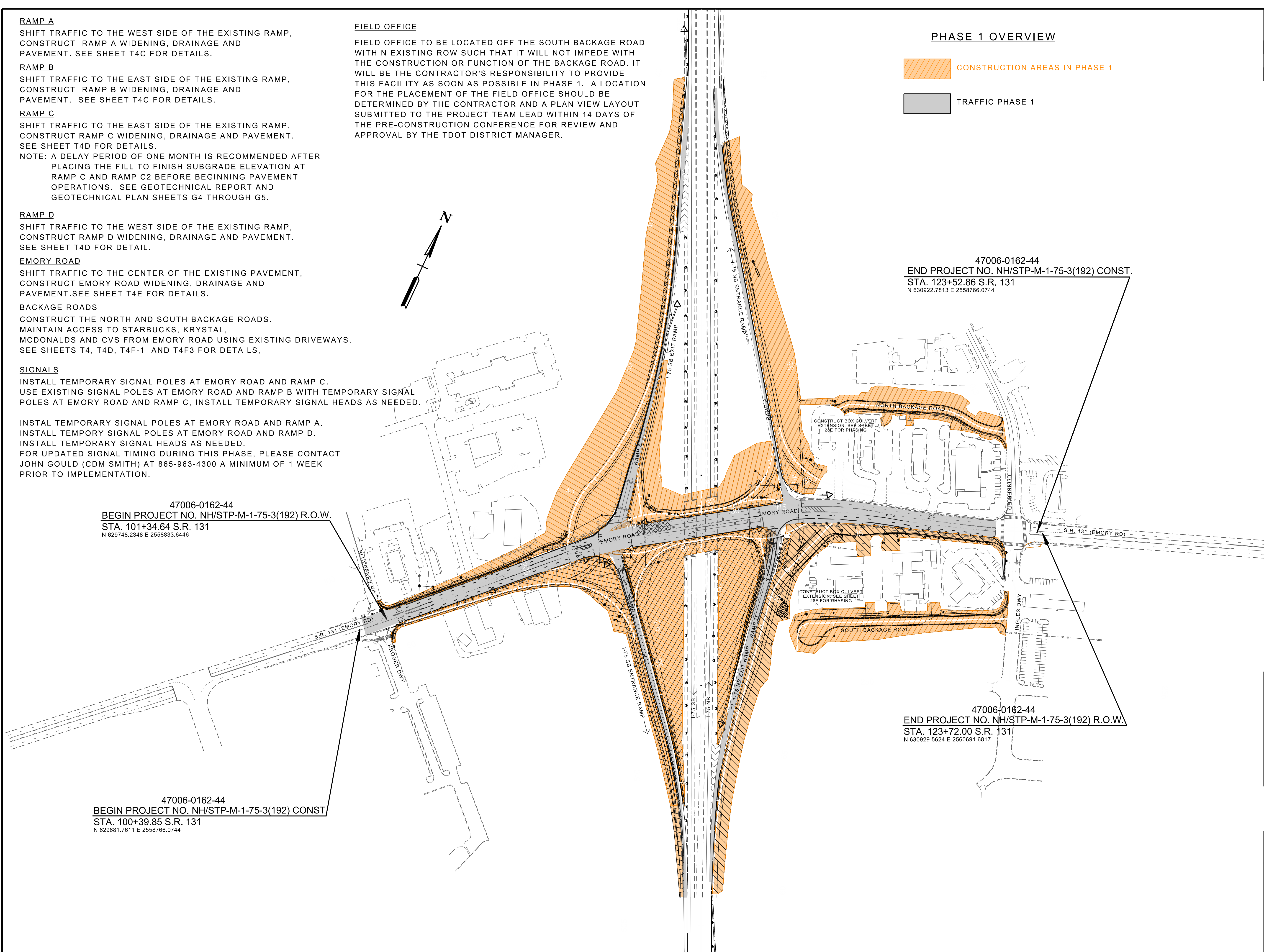
TRAFFIC PHASE 1

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-1-75-3(192)	T3-1

KNOX CO. I-75 AT SR-131

REV. 07/02/2025; REVISED TEMP.
SIGNAL NOTES.

REV. 08/07/2025; ADDED FIELD OFFICE
NOTE



SEALED BY

KATHLEEN C. HOLMES
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
STATE OF TENNESSEE
No. 108598
08-07-2025

COORDINATE VALUES ARE TENNESSEE STATE PLANE
NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC
REFERENCE NETWORK. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988 USING
THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
PHASING OVERVIEW
PHASE 1

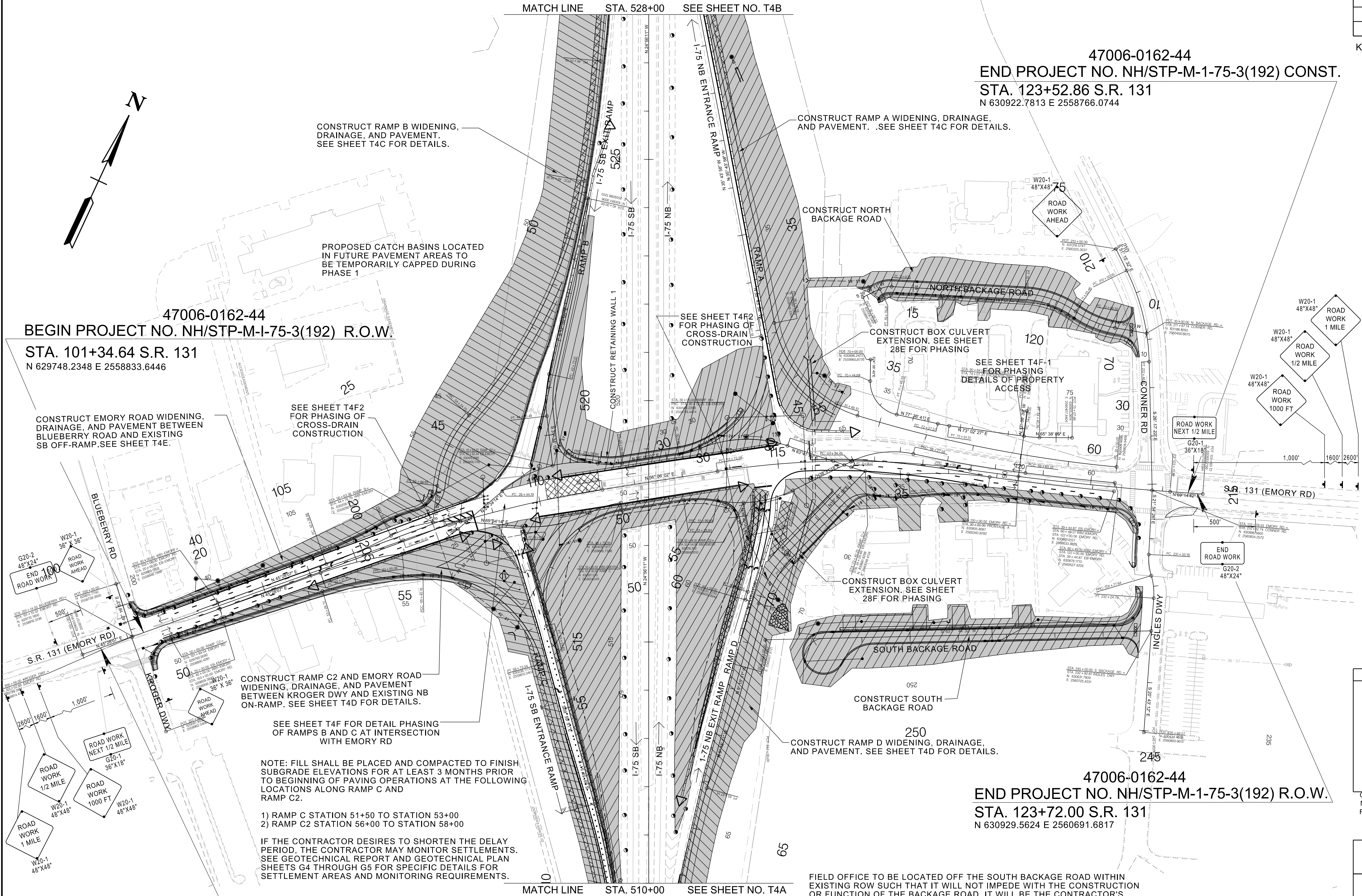
NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-1-75-3(192)	T4

KNOX CO. I-75 AT SR-131

REV. 07/02/2025; REVISED SETTLEMENT AREA NOTE ON RAMPS C AND C2.

REV. 08/07/2025; ADDED FIELD OFFICE NOTE



SEALED BY

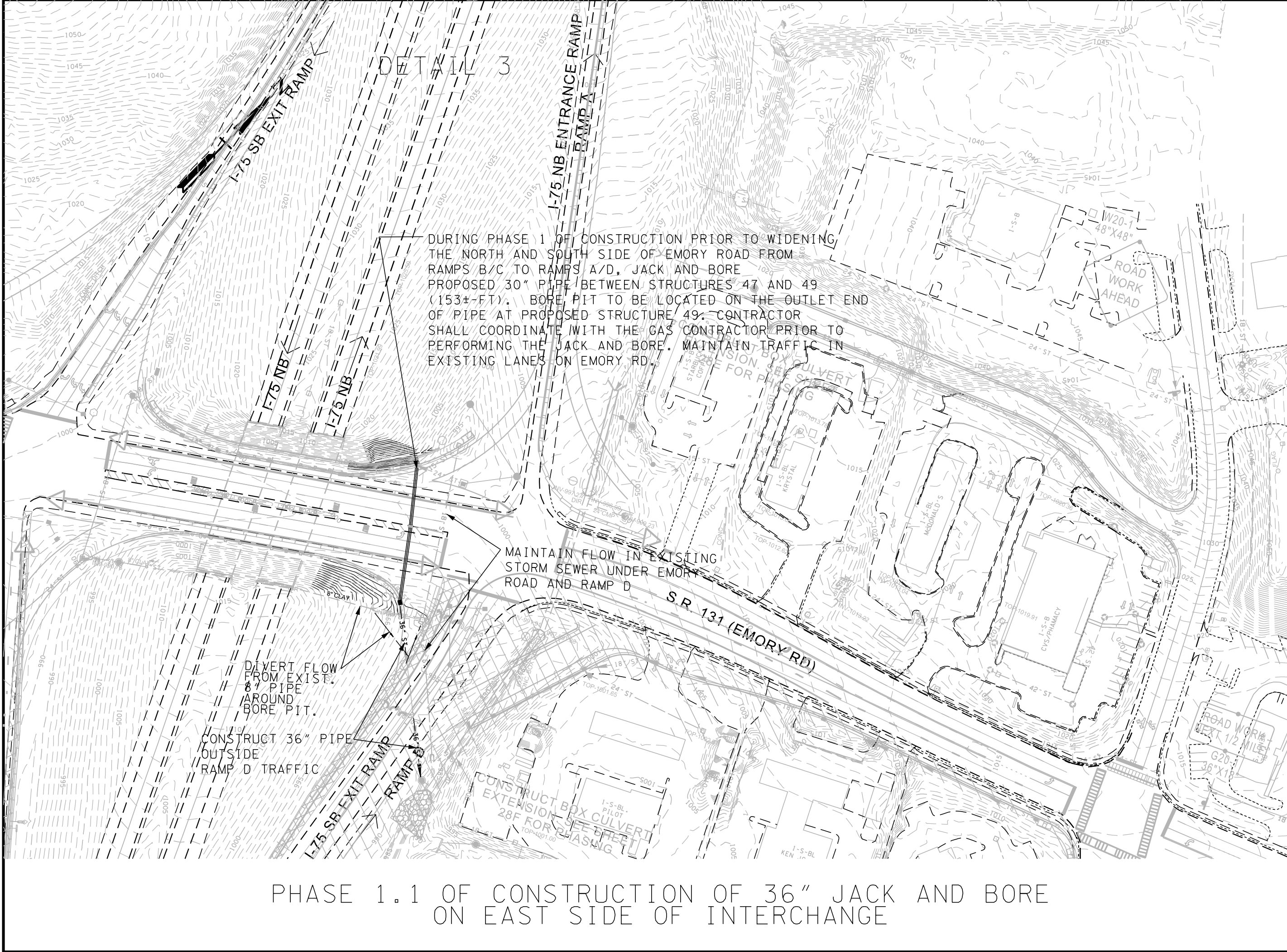
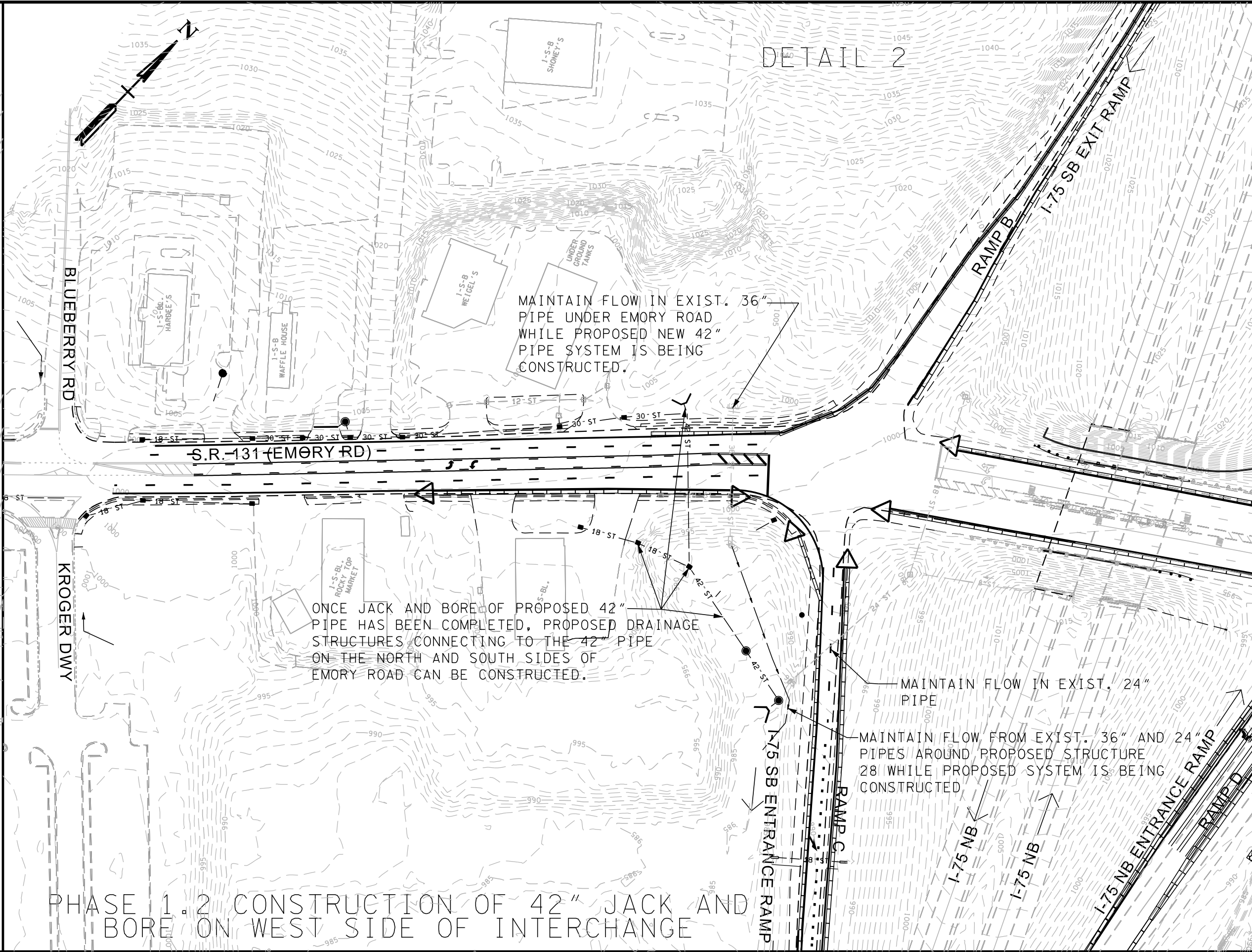
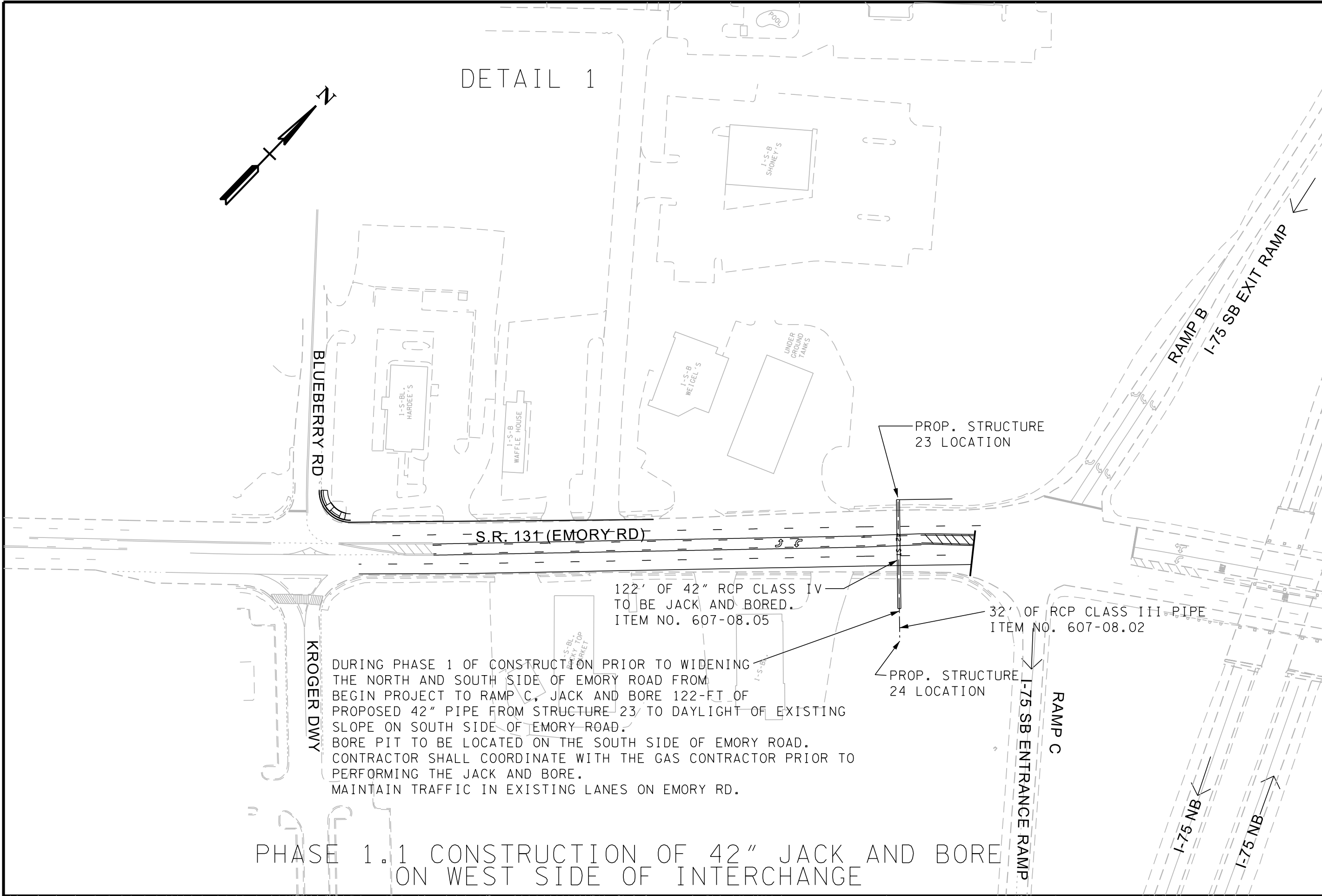
KATHLEEN C. HOLMES
REGISTERED ENGINEER
08-07-2025

COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
PLANS
PHASE 1
STA.500+00 TO STA.527+00
SCALE: 1"=100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	T4F-2
KNOX CO.		I-75 AT SR-131	
REV. 08/07/2025; REVISED DETAILS 1 AND 2.			

SEALED BY



COORDINATE VALUES ARE TENNESSEE STATE PLANE NAD/83 (CORS96) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008, AND ARE TIED TO THE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 09 MODEL, OBTAINED ON 02-18-2018.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL
PLANS
PHASE 1 CONST
DETAILS**

SCALE: 1"=100'



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Frank Bale2025.08.04 09:52:16-04'00'

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

CDM SMITH
1100 MARION STREET
SUITE 300
KNOXVILLE, TN 37921
FRANK G. BALE JR., 022,529

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	R-SIGN2
RETAINING WALL PLANS.....	R-1
RETAINING WALL NO. 2 GENERAL NOTES	R2-1
RETAINING WALL NO. 2 LAYOUT AND ELEVATION	R2-2

YEAR	PROJECT NO.	SHEET NO.
2025	NH/STP-M-I-75-3(192)	R-SIGN3
KNOX CO.		I-75 AT SR-131
REV. 08-04-2025: ADDED THIS SHEET TO PLANS		
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION		
SIGNATURE SHEET		

[illegible]

① ②

STANDARD STRUCTURE DRAWINGS

LIST OF SPECIAL PROVISIONS

SEAL BY

FRANK GILBERT BAILE JR.
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NOV. 22 2005
STATE OF TENNESSEE

08-04-202

KNOX COUNTY
2025



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. PUBLICATION NO. FHWA-IF-99-015 GEC 004 GROUND ANCHORS AND ANCHORED SYSTEMS, JUNE 1999.

A. SEISMIC DESIGN CATEGORY B WITH $A_S = 0.226$, $S_{DS} = 0.431$, $S_{D1} = 0.166$, (1000 YEAR RETURN PERIOD).
B. 500 LB/SQ. FT. SURCHARGE 5 FEET BEHIND RETAINING WALL FOR TEMPORARY CONSTRUCTION SURCHARGE AND PERMANENT VEHICLE SURCHARGE.

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

WELDING: AASHTO/AWS D1.5-CURRENT EDITION BRIDGE WELDING CODE AND SECTION 602 OF THE STANDARD SPECIFICATIONS.

SEE GEOTECHNICAL REPORT SHEET R1B FOR INFORMATION REGARDING DRILLING CONDITIONS.

WALL SHALL BE BUILT FROM THE TOP DOWN IN ACCORDANCE WITH THE CONSTRUCTION PROCEDURE LISTED BELOW.

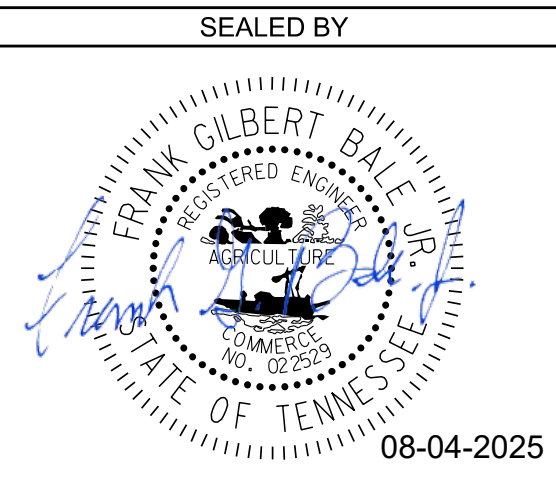
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO FOLLOWING APPLICABLE REGULATORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES SHALL BE PLACED AT A MAXIMUM OF A 1:1 SLOPE IN SOIL AND SHALL NOT BE LEFT OPEN WITHOUT SHORING FOR ANY LONGER THAN ABSOLUTELY NECESSARY. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF THE SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE, OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

VERY DENSE AND HARD SOIL LENSES WITH CHERT FRAGMENTS/BOUNDERS AND INTERMITTENT WEATHERED ROCK LAYERS SHOULD BE EXPECTED DURING PILE INSTALLATION. ASSUME PREDRILLING THROUGH IN-PLACE WEATHERED ROCK AND BOULDERS MATERIAL WILL BE REQUIRED FOR THE INSTALLATION OF SOLDIER PILES.

PROJECT NO.	YEAR	SHEET NO.
NH/STP-M-I-75-3(192)	2025	R2-1

[illegible]

KNOX COUNTY
2025

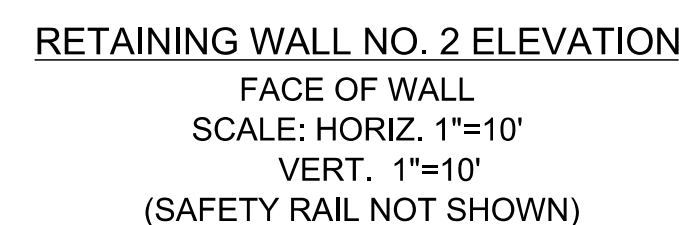


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PIN NO. 124451.01

[illegible]

THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY CONTRACTOR FOR THE REMOVAL AND RELOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION OF RETAINING WALL NO. 2.

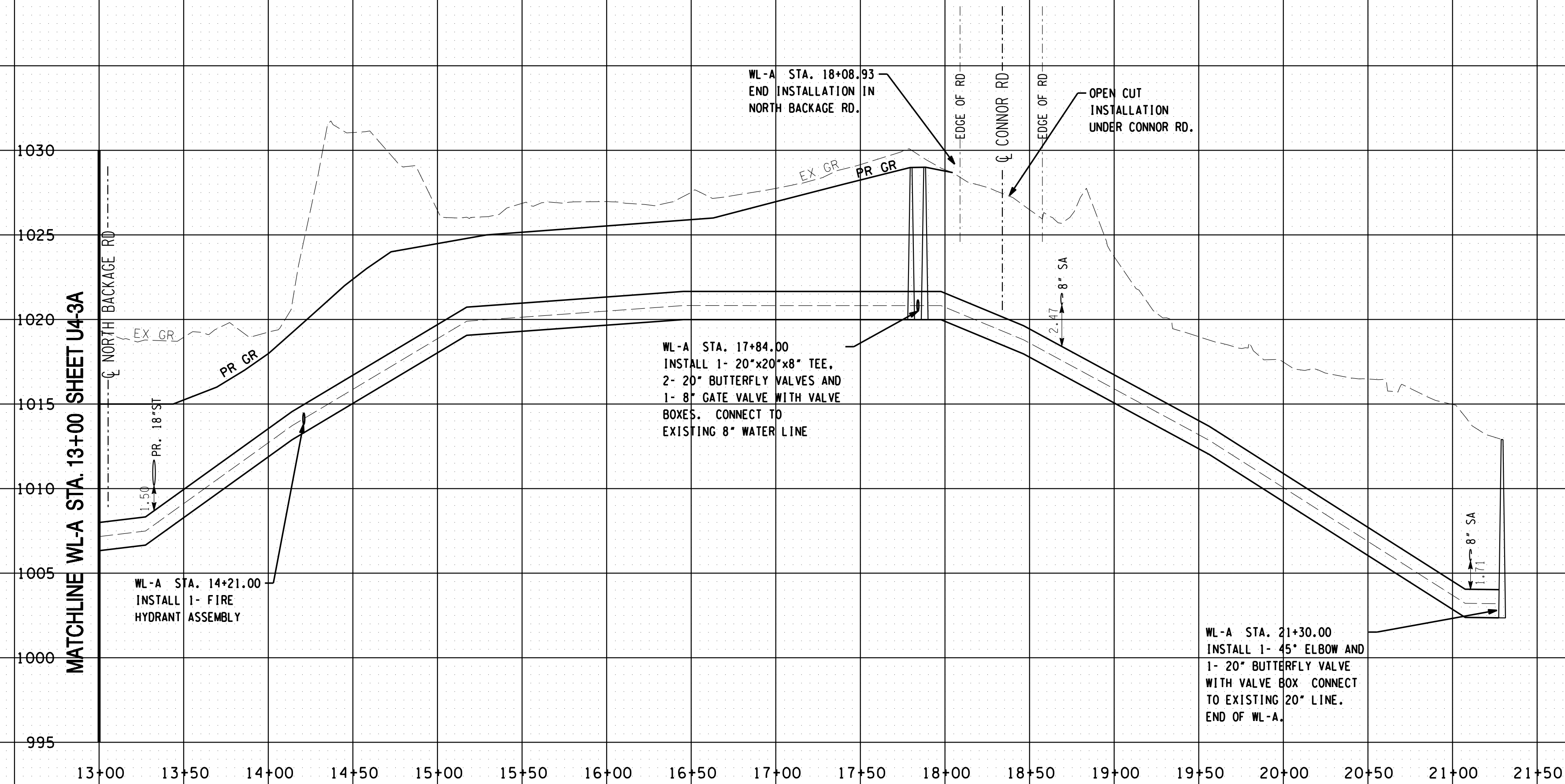


THE RETAINING WALL BID QUANTITY IS BASED ON THE
SURFACE AREA BETWEEN THE TOP OF THE WALL
AND 2'-0" BELOW THE FINISHED GRADE LINE

KNOX COUNTY
2025

PIN NO. 124451.01

6/27/2025 11:25:46 AM
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WL-A PROFILE
1" = 50' HORIZ.
1" = 5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH/STP-M-I-75-3(192)	U4-4A

KNOX CO. I-75 AT SR-131

6/27/2025 REMOVED 2" WL-B CONNECTION FROM PROFILE

SEALED BY

6/27/2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER
RELOCATION
PROFILE