

UPDATE DATE 9-20-98
 LETTING DATE

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS MADISON COUNTY COVINGTON - LEXINGTON - TENN. STATE LINE I-75 OVER TATES CREEK & TATES CREEK ROAD

REFERENCE AND ESTIMATE OF QUANTITIES

LOCATION	ITEM	SHEET NUMBER	CLASS A CONCRETE CU. YDS.	CLASS AA CONCRETE CU. YDS.	REINF. STEEL LBS.	REINF. STEEL EPOXY COATED LBS.	STRUCTURE EXCAVATION		P.P.C. I-BEAM TYPE III LIN. FT.	STRUCTURAL STEEL ① LUMP SUM	REMOVE CONCRETE MASONRY CU. YDS.	HP 12 X 53 STEEL PILES		PILE POINTS 12" INCH LIN. FT.	EXPANSION DAM 2" NEOPRENE LIN. FT.	REMOVE EXISTING SUPERSTRUCTURE L. S.	CRUSHED AGGREGATE SLOPE PROTECTION TONS	REMOVE HANDRAIL LUMP SUM	CYCLOPEAN STONE RIP RAP TONS	STRUCTURE GRANULAR BACKFILL CU. YDS.
							COMMON CU. YDS.	SOLID ROCK CU. YDS.				TEST PILES LIN. FT.	FURNISH & DRIVE LIN. FT.							
TITLE AND ESTIMATE OF QUANTITIES		1,2																		
GENERAL NOTES		3,4																		
LAYOUT		5																		
ELEVATION & TYPICAL DECK SECTIONS		6																		
STAGE CONSTRUCTION		7																		
SUBSURFACE DATA		8,9																		
FOUNDATION LAYOUT		10,11																		
CONCRETE REMOVAL AT END BENTS		12,31																		
CONCRETE REMOVAL AT PIERS		22																		

NORTHBOUND BRIDGE SUBSTRUCTURE

END BENT 1	13-16	96.1	27.1		10,026	65			①	79	20	120	9			235			110
PIER 1	23	77.3		8,655	6,796	79	33			20									
PIER 2 ②	25-27	91.8		8,014	10,050	90	21			27								122	
PIER 3	29	78.5		8,718	6,792	226	29			20									
END BENT 2	32-36	95.0	28.5		10,184	81			①	80	28	216	10					1,041	93
SUBSTRUCTURE BILL OF REINFORCEMENT	41-44																		
SUB-TOTAL SUBSTRUCTURE		438.7	55.6	25,387	43,848	541	83		①	226	48	336	19			235		1,163	203

SUPERSTRUCTURE

FRAMING PLAN	45																		
PRESTRESSED CONCRETE I-BEAM TYPE III DETAILS	46							1747.4											
SUPERSTRUCTURE	47-51		584.0		157,338				①						1		1		
SUPERSTRUCTURE BILL OF REINFORCEMENT	52,53																		
CONSTRUCTION ELEVATIONS	54,55																		
EXPANSION DAM 2" NEOPRENE	58												164						
SUB-TOTAL SUPERSTRUCTURE			584.0		157,338			1747.4	①				164		1		1		
NORTHBOUND BRIDGE TOTAL		438.7	639.6	25,387	201,186	541	83	1747.4	①	226	48	336	19	164	1	235	1	1,163	203

SOUTHBOUND BRIDGE SUBSTRUCTURE

END BENT 1	17-21	93.0	25.1		9,633	65			①	78	20	135	10			234			97
PIER 1	24	76.1		8,607	6,733	81	30			20									
PIER 2	28	76.3		8,568	6,684	67	17			20								131	
PIER 3	30	78.7		8,977	6,741	222	41			20									
END BENT 2	37-40	95.8	26.2		9,898	59			①	79	28	184	9					1,028	89
SUBSTRUCTURE BILL OF REINFORCEMENT	41-44																		
SUB-TOTAL SUBSTRUCTURE		419.9	51.3	26,152	39,689	494	88		①	217	48	319	19			234		1,159	186

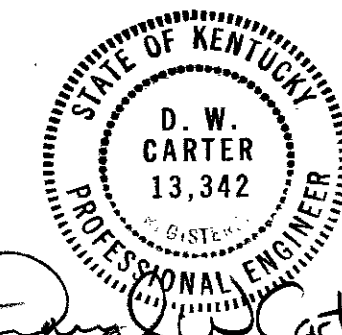
SUPERSTRUCTURE

FRAMING PLAN	45																		
PRESTRESSED CONCRETE I-BEAM TYPE III DETAILS	46							1747.4											
SUPERSTRUCTURE	47-51		584.0		157,338				①						1		1		
SUPERSTRUCTURE BILL OF REINFORCEMENT	52,53																		
CONSTRUCTION ELEVATIONS	56,57																		
EXPANSION DAM 2" NEOPRENE	58												164						
SUB-TOTAL SUPERSTRUCTURE			584.0		157,338			1747.4	①				164		1		1		
SOUTHBOUND BRIDGE TOTAL		419.9	635.3	26,152	197,027	494	88	1747.4	①	217	48	319	19	164	1	234	1	1,159	186
TOTAL FOR BOTH BRIDGES		858.6	1,274.9	51,539	398,213	1,035	171	3494.8	①	443	96	655	38	328	1	469	1	2,322	389

① APPROXIMATE WEIGHT OF STRUCTURAL STEEL IS 3,003 LBS EACH BRIDGE. (WEIGHT INCLUDES ARMORED EDGES BJE-001-C.E. & DRAINS)

② INCLUDES QUANTITIES FOR CULVERT MODIFICATIONS AT OUTLET END, SHOWN ON SHEET 26.

AMERICAN ENGINEERING COMPANY
 CONSULTING ENGINEERS
 LEXINGTON, KENTUCKY



Signed D. W. Carter Date 6-30-94

NOTE: SEE SHEET 2 FOR BILL OF INCIDENTAL MATERIALS AND REFERENCES.

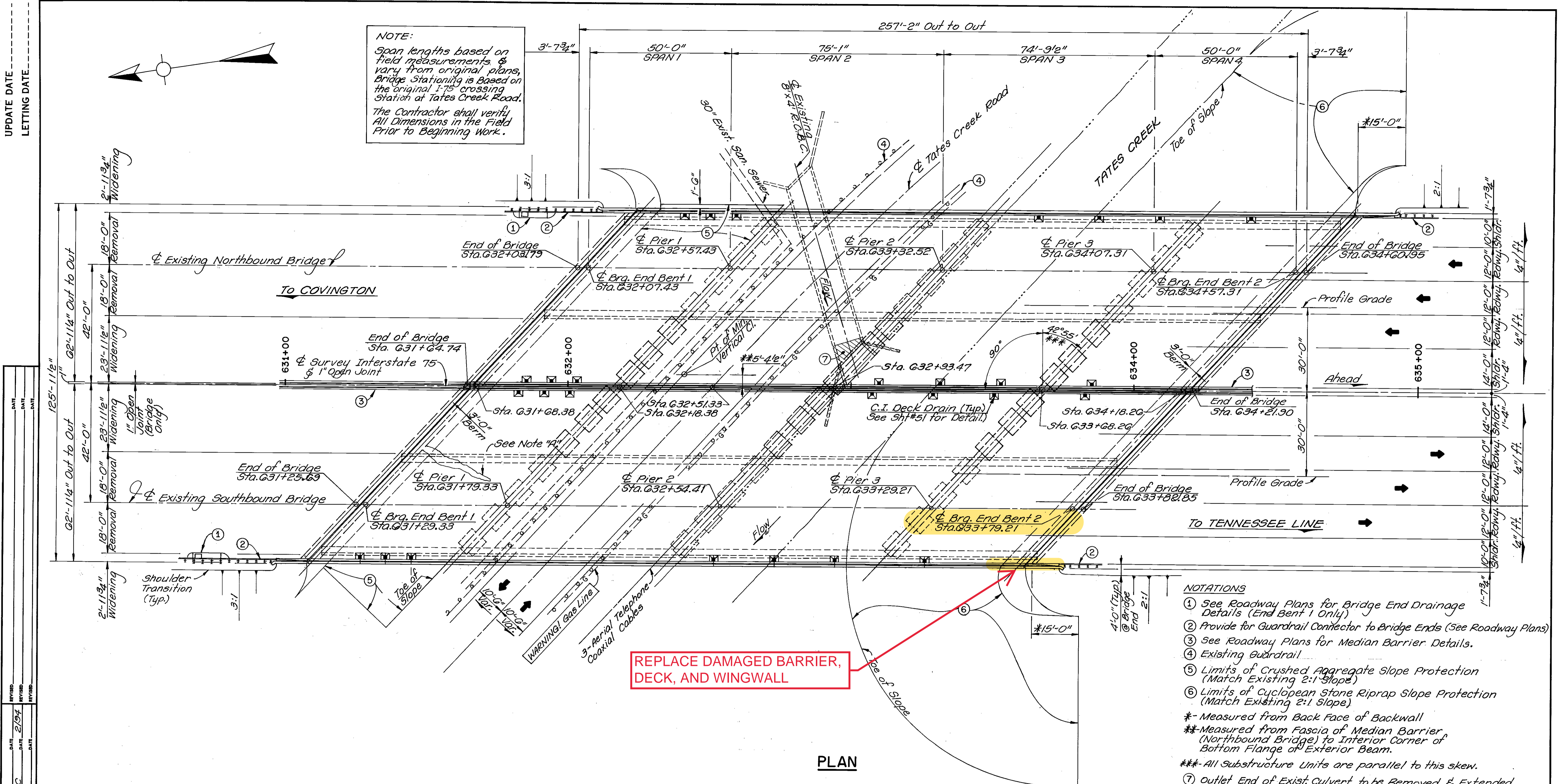
WIDENING I-75 OVER TATES CREEK ROAD SHEET 1 OF 58

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
MADISON
 COVINGTON-LEXINGTON-TENN. STATE LINE
 ROAD FD19 076 0075Y 089-098 01D
 STATION 632+93.47(1-75) P. E. PROJECT N000R 00754 038
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
IM NH MA 75-3(2) 88 23677

DESIGNED BY: _____ CHECKED BY: _____ DATE: 6/94
 DETAILED BY: ALF/RRY CHECKED BY: _____ DATE: _____
 PREPARED BY: GRAPHICS SECTION CHECKED BY: _____ DATE: _____

UPDATE DATE
LETTING DATE

NOTE:
Span lengths based on field measurements & vary from original plans. Bridge Stationing is based on the original I-75 crossing station at Tates Creek Road. The Contractor shall verify all dimensions in the field prior to beginning work.



DESIGNED BY	DATE	REVISION	DATE
BY	2/94		
CHECKED BY	DATE	REVISION	DATE
DWC			
TRACED BY	DATE	REVISION	DATE

NOTE "A": The Contractor shall place Cyclopean Stone Riprap as directed by the Resident Engineer in the general area shown, prior to the placement of Crushed Aggregate Slope Protection. The purpose of placement of riprap is to deter further erosion and provide a base for the slope protection in the general area.
Payment shall be included in the unit bid price for "Cyclopean Stone Riprap Slope Protection".

NOTE: See Sheet # 6 for Typical Deck Sections and Elevation.

- NOTATIONS
- ① See Roadway Plans for Bridge End Drainage Details (End Bent 1 Only)
 - ② Provide for Guardrail Connector to Bridge Ends (See Roadway Plans)
 - ③ See Roadway Plans for Median Barrier Details.
 - ④ Existing Guardrail
 - ⑤ Limits of Crushed Aggregate Slope Protection (Match Existing 2:1 Slope)
 - ⑥ Limits of Cyclopean Stone Riprap Slope Protection (Match Existing 2:1 Slope)
- *- Measured from Back Face of Backwall
**- Measured from Fascia of Median Barrier (Northbound Bridge) to Interior Corner of Bottom Flange of Exterior Beam.
***- All Substructure Units are parallel to this skew.
⑦ Outlet End of Exist. Culvert to be Removed & Extended.

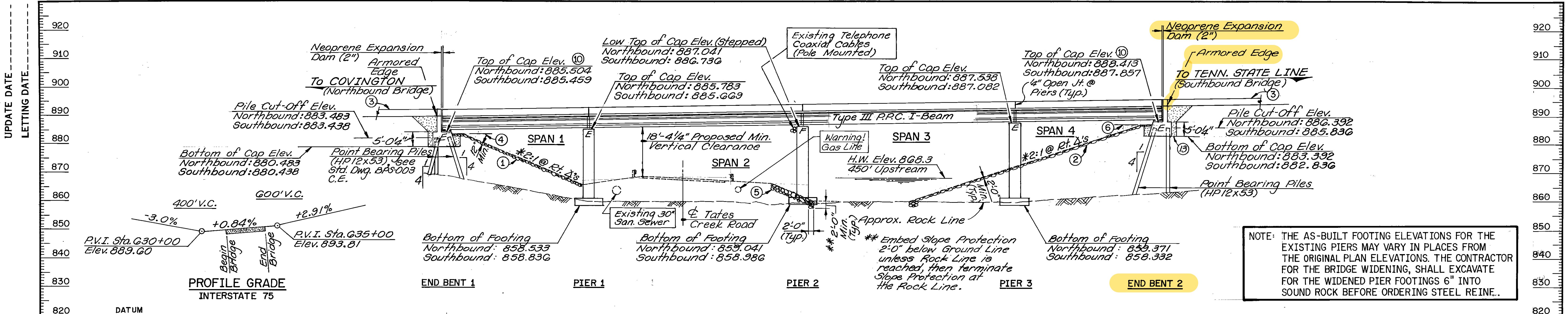
EXISTING NORTHBOUND AND SOUTHBOUND BRIDGE LAYOUTS WERE TAKEN FROM DRAWING NO. 15667.

LAYOUT

Widening I-75 Over Tates Creek Road SHEET 5

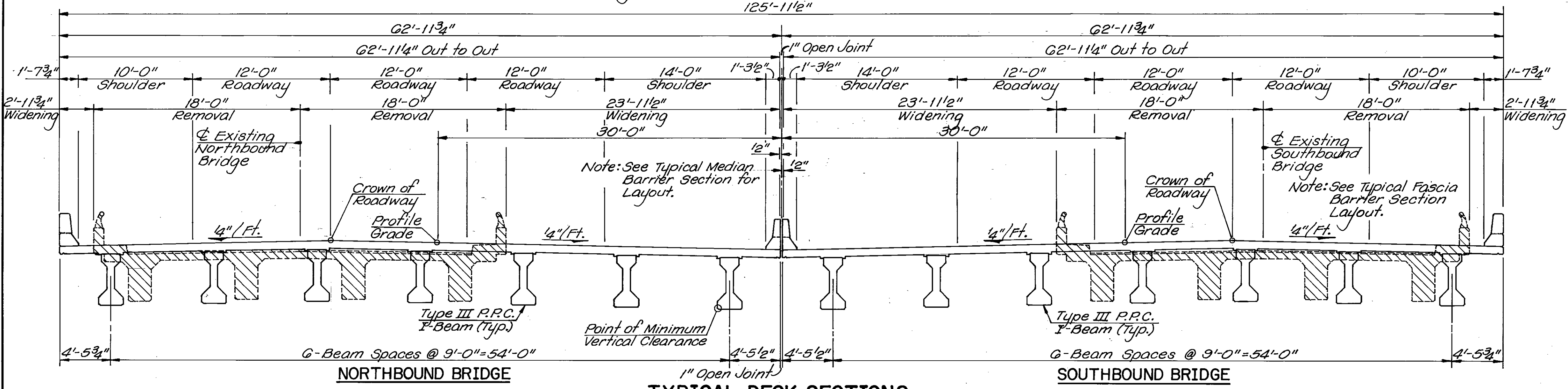
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
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COUNTY OF
MADISON
ROAD
COVINGTON - LEXINGTON - TENN. STATE LINE
STATION 632+93.47 (I-75) P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		23677



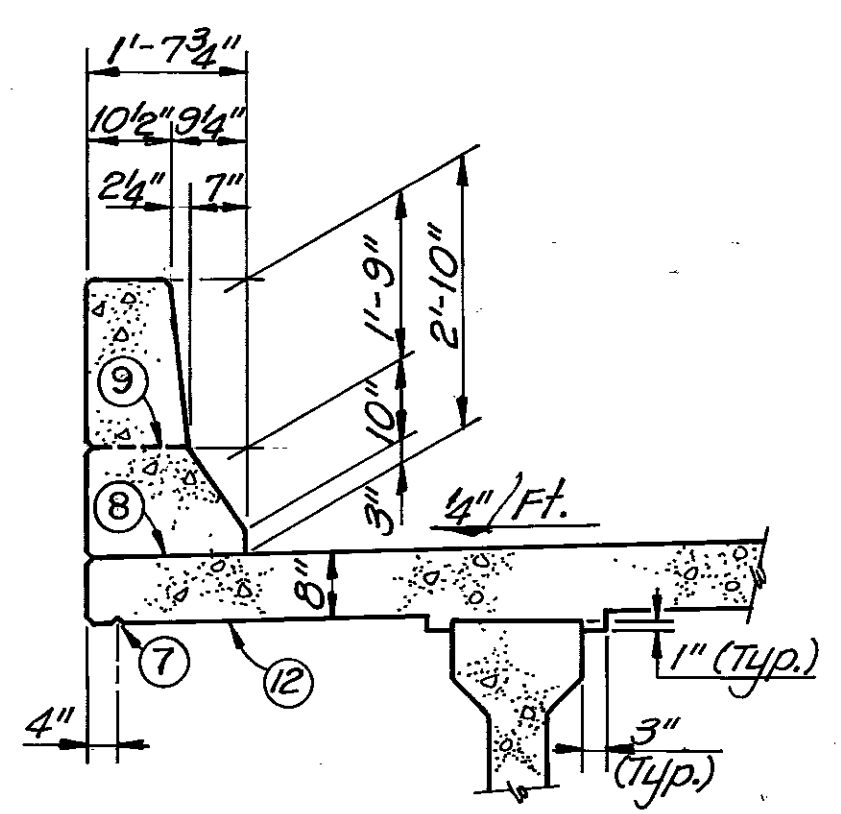
ELEVATION ALONG CENTERLINE OF SURVEY (INTERSTATE 75)

TWIN BRIDGE WIDENING
 50'-0" ~ 75'-1" ~ 74'-9 1/2" ~ 50'-0"
 P.P.C. Type III I-Beams (Composite - Continuous for Live Load)
 HS-25 Loading, 2-60'-0" Roadways, 42°55'00" Skew Right,
 130'-8" Out to Out Shoulders at Bridge Ends, Existing 2:1 Fill Slopes

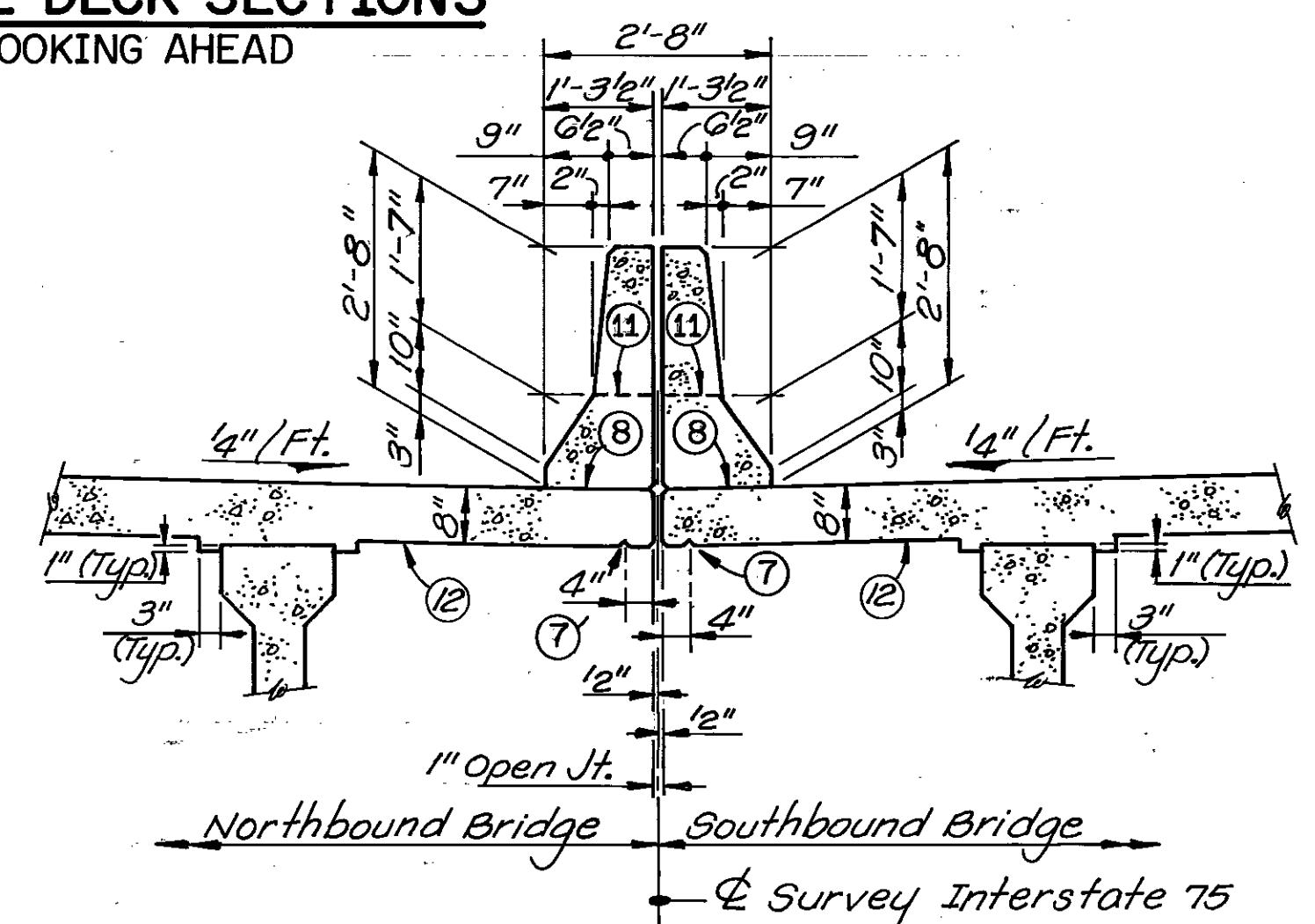


TYPICAL DECK SECTIONS
 LOOKING AHEAD

- NOTATIONS**
- ① Crushed Aggregate Slope Protection
 - ② Cyclopean Stone Riprap Slope Protection
 - ③ Concrete Median Barrier (Permanent), see Roadway Plans.
 - ④ Existing Berm Varies from Elev. 884.7± (Northbound) to Elev. 884.4± (Southbound)
 - ⑤ Existing Cyclopean Stone Slope Protection (To Remain)
 - ⑥ Existing Berm Varies from Elev. 887.8± (Northbound) to Elev. 886.7± (Southbound)
 - ⑦ 1/2" Drip Groove (Full Length)
 - ⑧ Mandatory Construction Joint & Rustication Groove
 - ⑨ Optional Construction Joint & Rustication Groove (Rustication Groove is required ONLY when Constr. Joint is used.) and Limit of 1/4" Open Joint over Piers.
 - ⑩ At Backwall
 - ⑪ Optional Construction Joint (No Rustication Groove is required) and Limit of 1/4" Open Joint over Piers.
 - ⑫ Construct Overhang Parallel to Deck Cross Slope
 - ⑬ Structure Granular Backfill (Typical), for Details, see Standard Drawings RGX-100 & 105 C.E.
- *-Indicates to Match Existing Slope
 ▨ Indicates to Remove Existing Concrete Masonry and Existing Handrail.



TYPICAL FASCIA BARRIER SECTION



TYPICAL MEDIAN BARRIER SECTION

EXISTING DECK SECTIONS WERE TAKEN FROM DRAWING NUMBER 15667.

BEFORE YOU DIG
 The Contractor is advised that he can call 1-800-752-0007 Toll-Free a minimum of 24 hours prior to excavation for information on location of existing underground utilities.

ELEVATION AND TYPICAL DECK SECTIONS

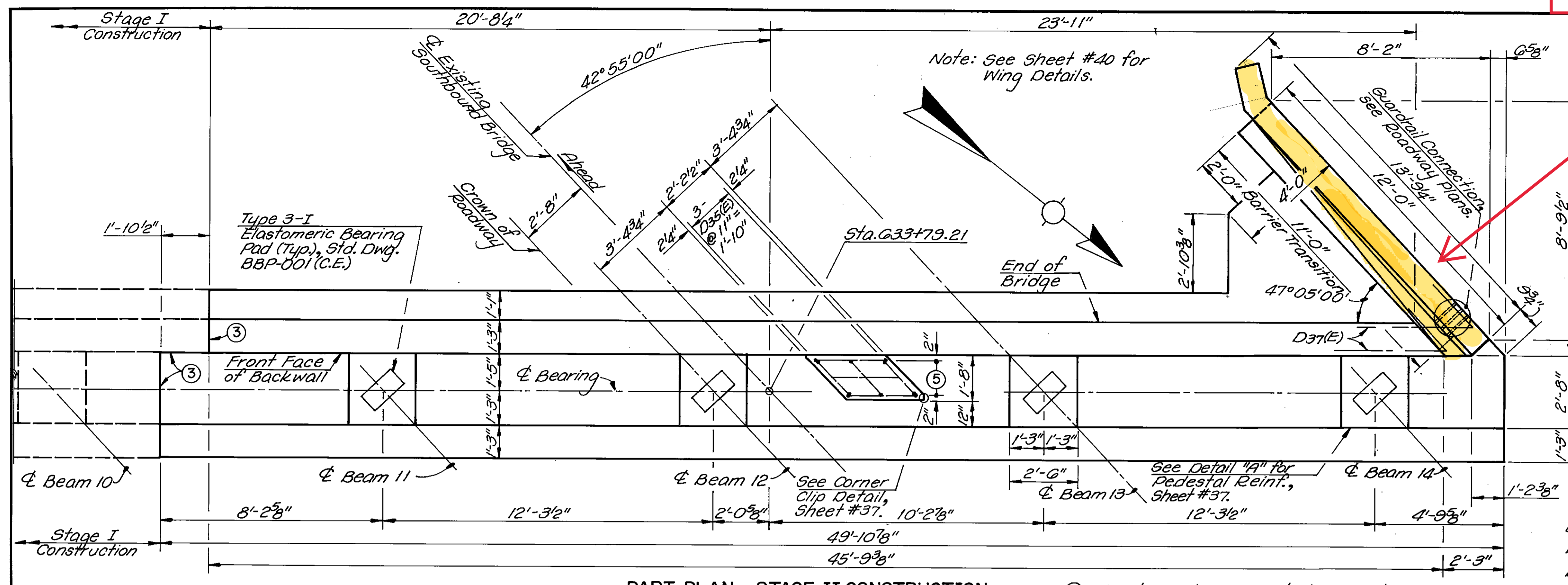
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 DESIGNED BY: RBY DATE: 2/92
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Widening I-75 Over Tates Creek Road SHEET 6

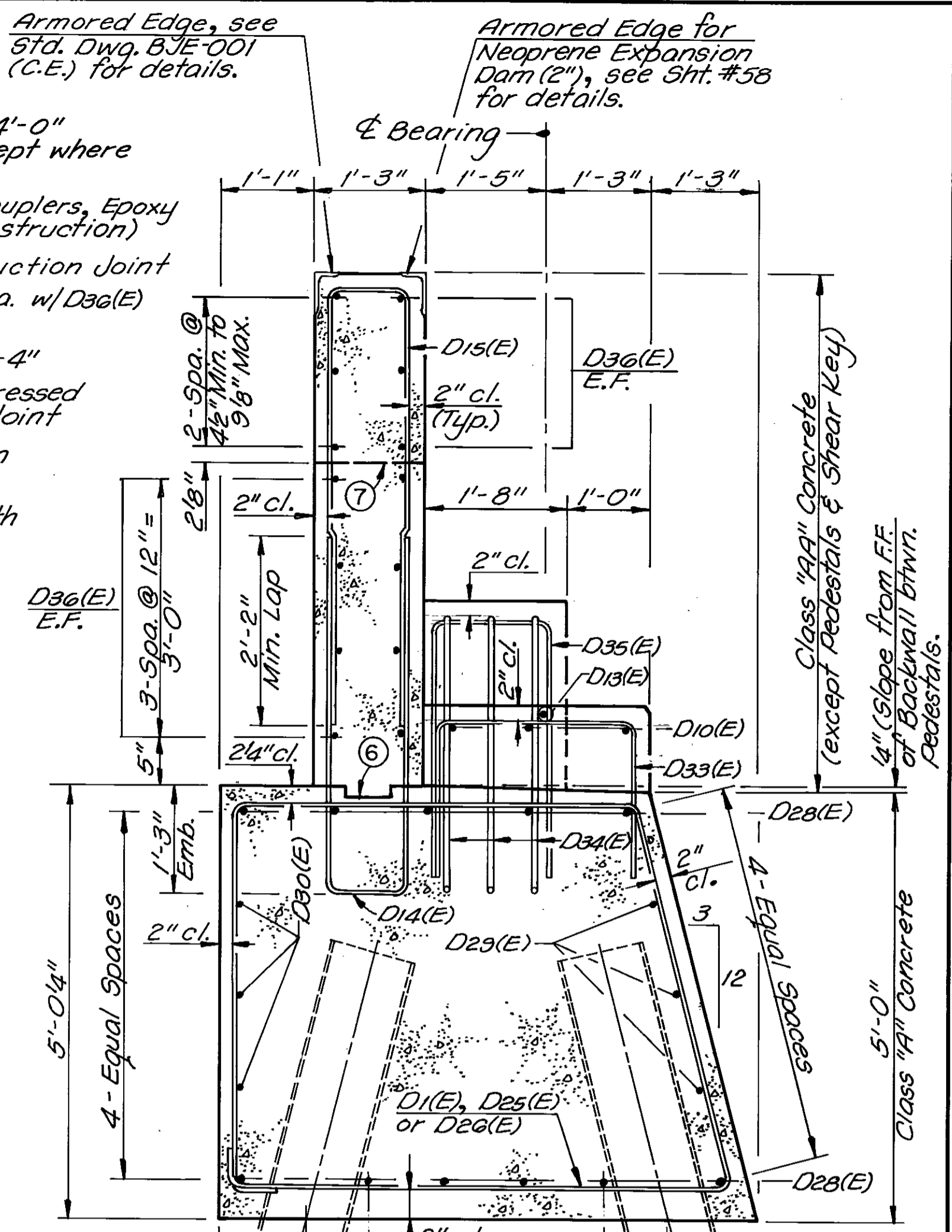
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
MADISON
 COVINGTON - LEXINGTON - TENN. STATE LINE
 ROAD
 STATION 632+93.47 (I-75) P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.
 DRAWING NO. 23677

REPLACE DAMAGED WINGWALL

UPDATE DATE
LETTING DATE



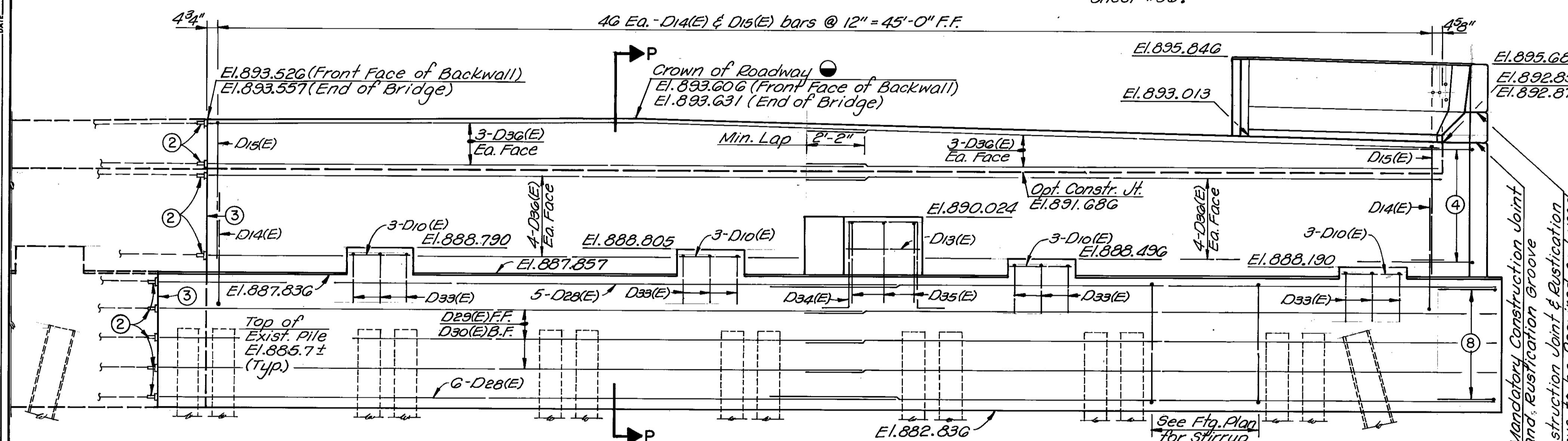
- NOTATIONS**
- ① 5-D1(E) bars at 12"=4'-0" (Typ. btwn. piles; except where shown.)
 - ② Reinforcing Flange Couplers, Epoxy Coated (Previous Construction)
 - ③ Bonded Stage Construction Joint
 - ④ 7 Pr.-D37(E) bars (Spa. w/ D26(E) bars)
 - ⑤ 3-D24(E) bars @ 8"=1'-4"
 - ⑥ 2"x5" Mandatory Depressed Keyed Construction Joint
 - ⑦ Optional Construction Joint, El. 891.686
 - ⑧ 5-D21(E) bars (Spa. with D28(E) & D29(E) bars.)



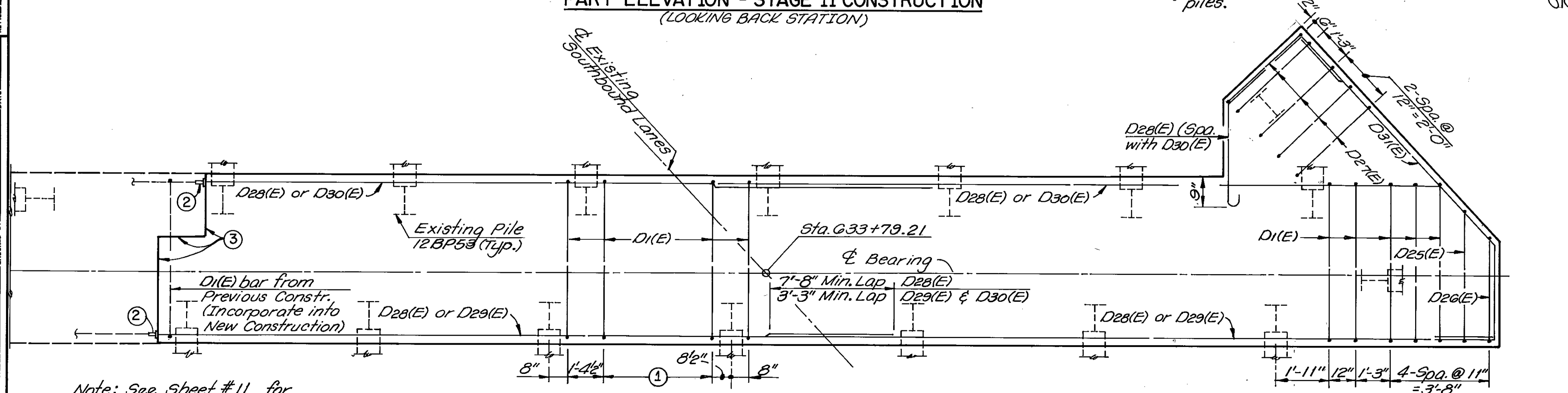
E.F. - Denotes Each Face
F.F. - Denotes Front Face
B.F. - Denotes Back Face

PART PLAN - STAGE II CONSTRUCTION

Elevations shown are to be adjusted as shown in Parabolic Crown Detail, Sheet #50.



PART ELEVATION - STAGE II CONSTRUCTION (LOOKING BACK STATION)



PART FOOTING PLAN - STAGE II CONSTRUCTION (SHOWING CAP REINFORCEMENT LAYOUT)

NOTES

1. Place Pedestals and Shear Key monolithically with End Bent Cap. No Construction Joint permitted between Pedestals and Cap or Shear Key and Cap.
2. Structure Granular Backfill behind the backwall shall not be placed until after all deck concrete is poured between the mandatory blackout for slab shown in Typical Section End Bent Diaphragms, Sheet #31.
3. Contractor may use an Optional Construction Joint 4" above Cap for Pedestals and Shear Key in Excess of 6" height.
4. See sheet #38 for Reinforcing Flange Coupler, Epoxy Coated Detail and Rustication Groove Detail.

DESIGNED BY: DMC DATE: 2/94
 CHECKED BY: JGS DATE: 2/94
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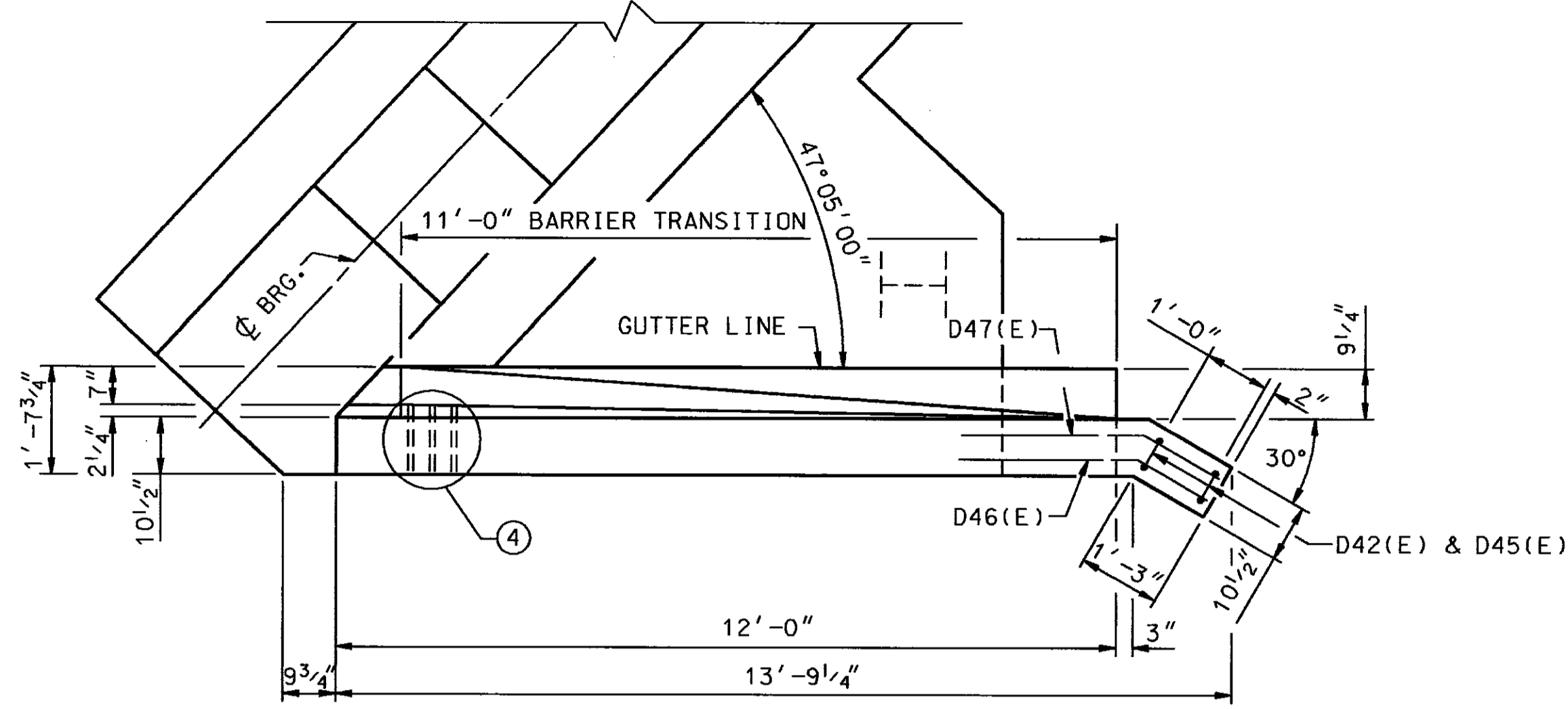
**SOUTHBOUND
END BENT 2**

Widening I-75 Over Tates Creek Road SHEET 39

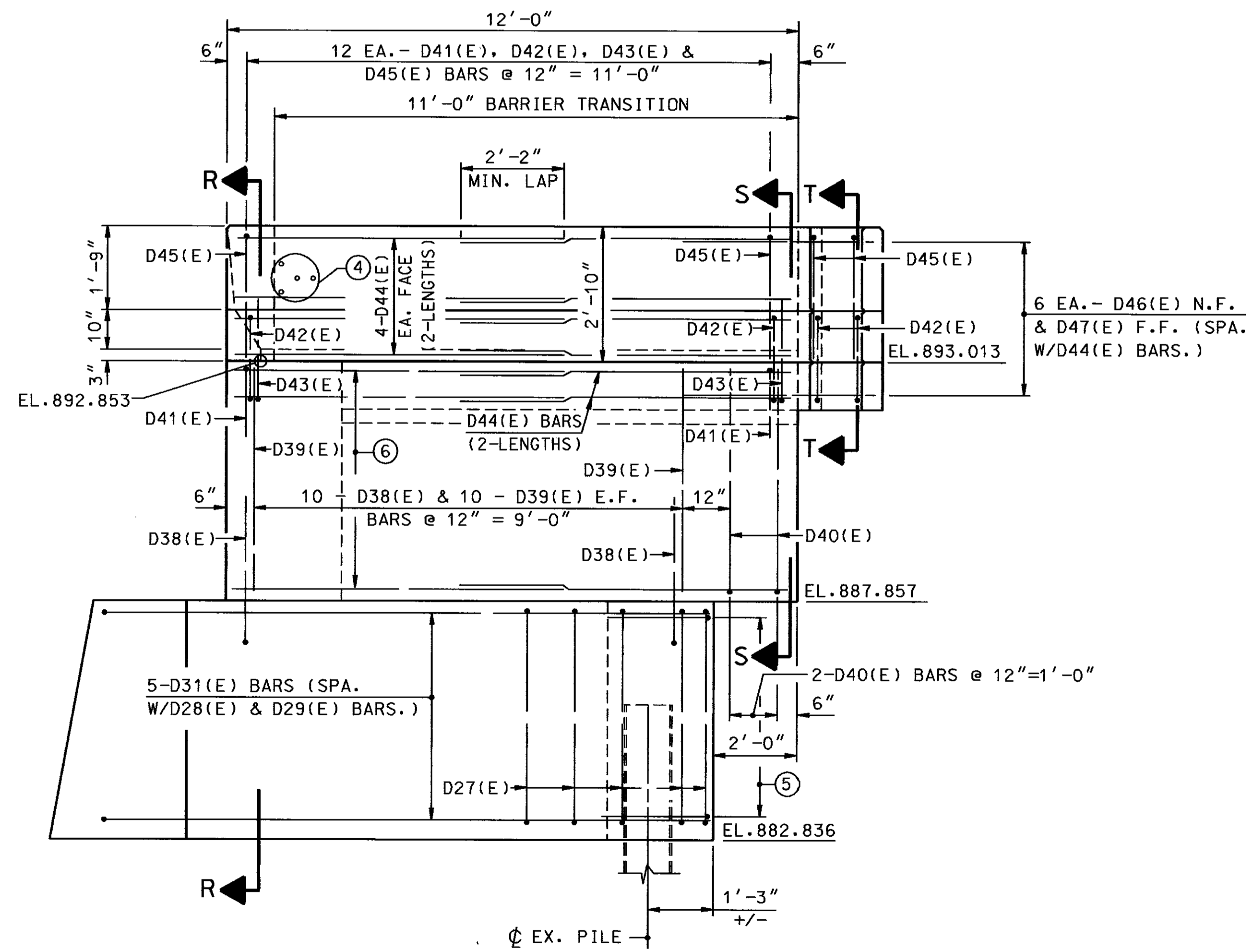
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
MADISON
 COVINGTON - LEXINGTON - TENN. STATE LINE
 ROAD
 STATION 632+93.47 (I-75) P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
 23677

UPDATE DATE
LETTING DATE

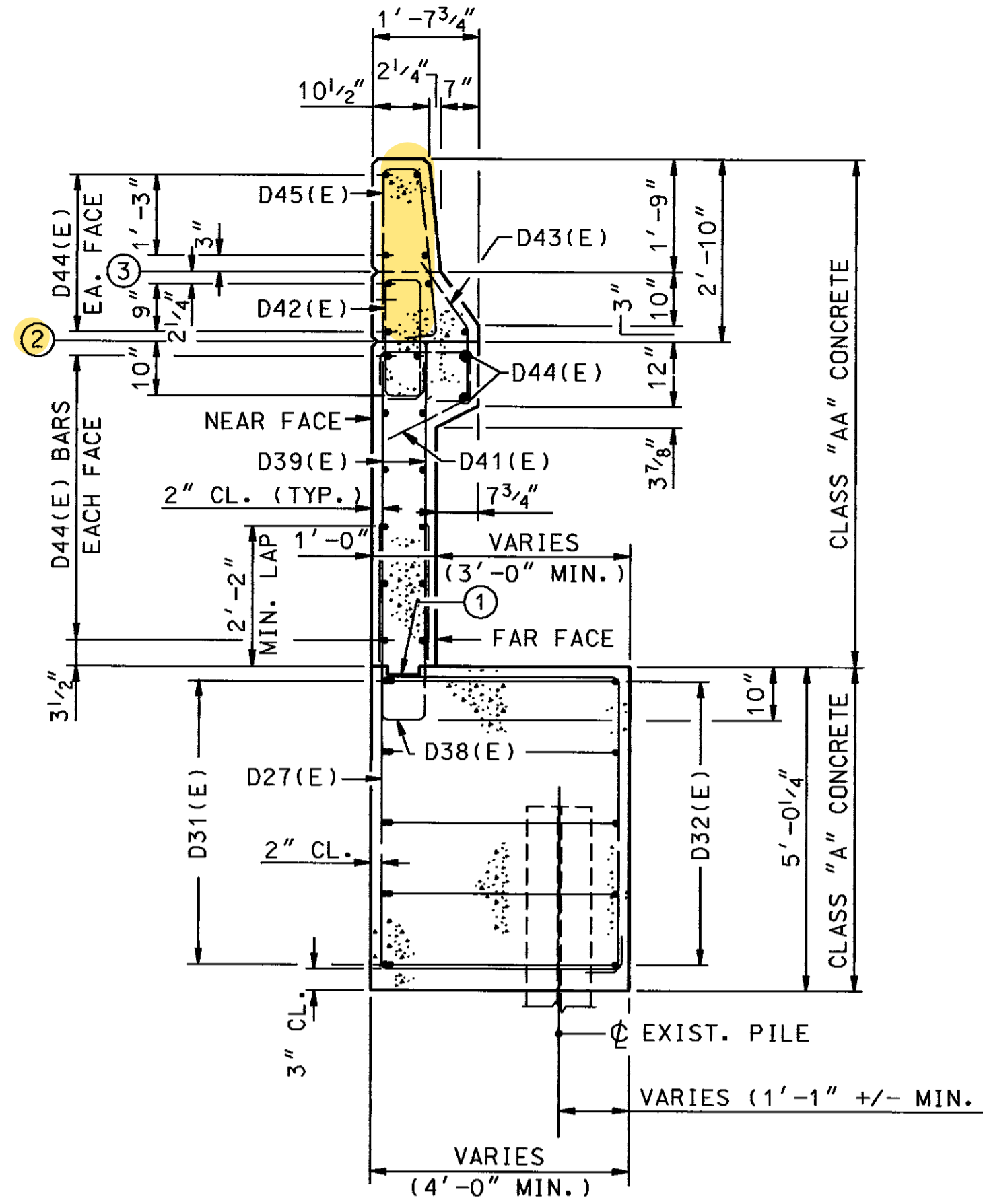
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 CHECKED BY: RRY. DATE: 2/94
 PREPARED BY: GRAPHICS SECTION. CHECKED BY: [REDACTED] DATE: [REDACTED]



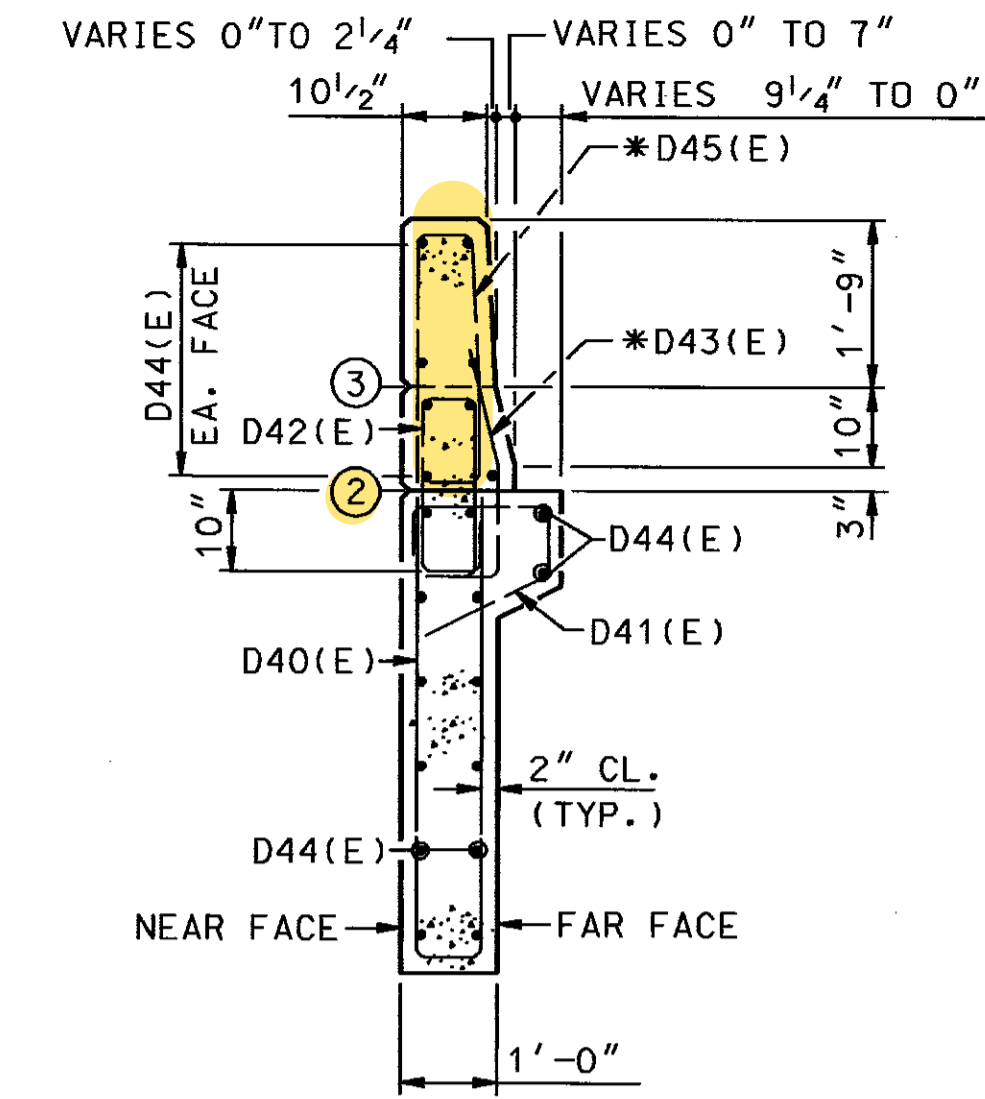
WINGWALL PLAN



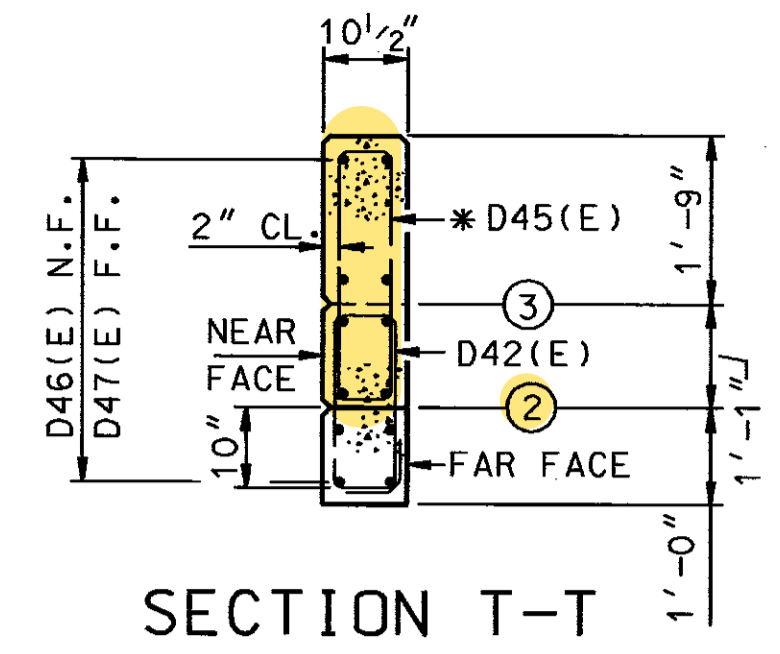
WINGWALL ELEVATION



SECTION R-R



SECTION S-S



SECTION T-T

PORTION OF WINGWALL TO BE REPLACED.

ESTIMATE OF QUANTITIES		
ITEM	UNIT	QUANTITY
CLASS "A" CONCRETE	CU. YDS.	95.8
CLASS "AA" CONCRETE	CU. YDS.	26.2
EPOXY COATED REINFORCEMENT	LBS.	9,898

NOTATIONS

- ① 2"x4" MANDATORY DEPRESSED KEYED CONSTR. JT.
- ② MANDATORY CONSTRUCTION JOINT & RUSTICATION GROOVE
- ③ OPTIONAL CONSTRUCTION JOINT & RUSTICATION GROOVE (USE ONLY IF OPTIONAL JOINT IN SUPERSTRUCTURE BARRIER IS USED.)
- ④ 1" I.D. PLASTIC PIPE SLEEVES FOR GUARDRAIL CONNECTION, SEE ROADWAY PLANS.
- ⑤ 5-D32(E) BARS (SPA. W/D31(E) BARS.)
- ⑥ 6-D44(E) BARS @ 10 3/4" MIN. TO 11 1/8" MAX. (2-LENGTHS) EA. FACE

E.F. - DENOTES EACH FACE
 N.F. - DENOTES NEAR FACE
 F.F. - DENOTES FAR FACE
 * - INDICATES TO FIELD BEND AS REQ'D.

**SOUTHBOUND
END BENT 2**

Widening I-75 Over Tates Creek Road SHEET 40

**COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS**

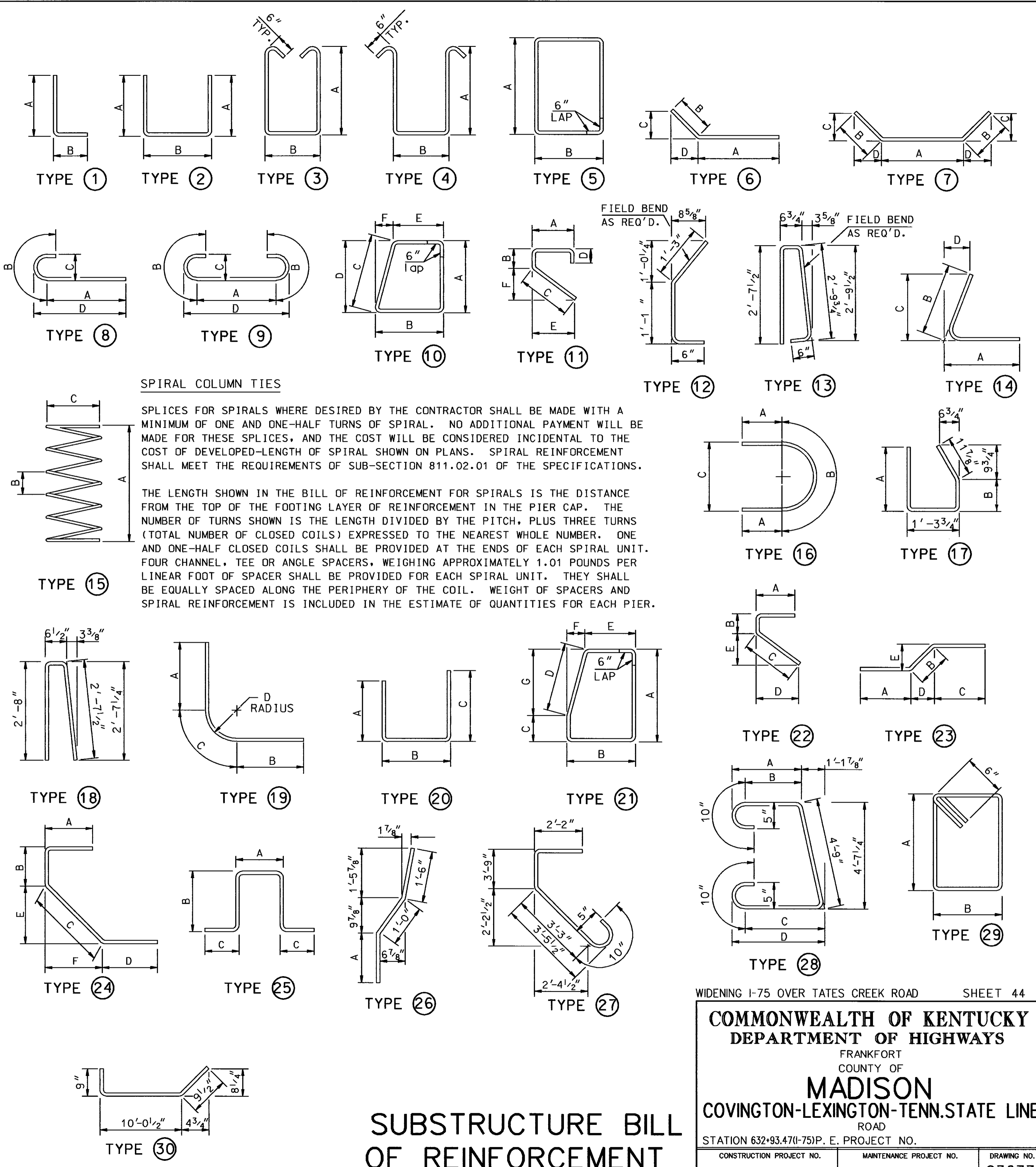
FRANKFORT
COUNTY OF
MADISON
COVINGTON-LEXINGTON-TENN. STATE LINE
ROAD

STATION 632+93.47 (I-75) P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		23677

BILL OF REINFORCEMENT

MARK	TYPE	SIZE	NUMBER	LENGTH		LOCATION	A		B		C		D		E		F		G	
				Ft.	In.		Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
SOUTHBOUND END BENT 2																				
D1(E)	⑩	5	74	20	9	CAP	4	7	5	11	4	9	4	7 1/4	4	9	1	1 1/8		
D2(E)	⑤	5	1	19	5	CAP	4	7	4	9										
D3(E)	⑤	5	1	18	3	CAP	4	7	4	2										
D4(E)	⑤	5	1	15	9	CAP	4	7	2	11										
D5(E)	STR	8	22	23	3	CAP														
D6(E)	STR	5	6	17	9	CAP														
D7(E)	STR	5	6	21	1	CAP														
D8(E)	②	5	5	12	7	CAP	2	6	0	9 1/2	6	10 1/2	2	6	5	0 3/8	4	8 1/8		
D9(E)	②	4	9	5	9	PEDESTALS	1	9	2	4										
D10(E)	STR	4	21	2	3	PEDESTALS														
D11(E)	②	6	3	10	5	SHEAR KEY	2	6 1/2	3	2 3/4	0	9								
D12(E)	②	4	3	8	1	SHEAR KEY	3	2	1	10										
D13(E)	STR	4	2	2	8	SHEAR KEY														
D14(E)	②	5	83	9	4	CAP & BKWL.	4	3	0	11										
D15(E)	②	5	83	10	4	BACKWALL	4	9	0	11										
D16(E)	STR	5	28	19	4	BACKWALL														
D17(E)	⑥	5	7	5	1	BKWL. & MED. BAR.	3	7	1	6	1	1 1/8	1	0 1/4						
D18(E)	⑥	5	7	3	10	BKWL. & MED. BAR.	2	8	1	2	0	10 1/4	0	9 1/2						
D19(E)	②	5	3	7	1	BKWL. & MED. BAR.	3	1 1/4	0	11 1/2										
D20(E)	STR	5	3	7	5	BKWL. & MED. BAR.														
D21(E)	②	5	3	7	8	BKWL. & MED. BAR.														
D22(E)	STR	5	12	1	11	BKWL. & MED. BAR.														
D23(E)	STR	5	7	2	4	BKWL. & MED. BAR.														
D24(E)	STR	5	1	1	9	MEDIAN BARRIER														
D25(E)	⑩	5	1	18	11	CAP	4	7	5	0	4	9	4	7 1/4	3	10	1	1 1/8		
D26(E)	⑩	5	1	16	11	CAP	4	7	4	0	4	9	4	7 1/4	2	10	1	1 1/8		
D27(E)	⑤	5	5	17	3	CAP	4	7	3	8										
D28(E)	STR	8	22	28	10	CAP														
D29(E)	STR	5	6	26	7	CAP														
D30(E)	STR	5	6	24	6	CAP														
D31(E)	②	5	5	16	3	CAP	2	2 1/2	3	6 1/2	10	7	7	2 1/2	7	9				
D32(E)	②	5	5	9	11	CAP														
D33(E)	②	4	12	5	10	PEDESTALS	1	9 1/2	2	4										
D34(E)	②	6	3	10	10	SHEAR KEY	2	6 1/2	2	11 1/4	0	9								
D35(E)	②	4	3	8	1	SHEAR KEY	3	2	1	10										
D36(E)	STR	5	28	24	0	BACKWALL														
D37(E)	④	5	14	5	5	BKWL. & WGWL.	3	3	2	2	1	7	1	5 3/4						
D38(E)	②	5	10	7	1	WINGWALL	3	3	0	8										
D39(E)	STR	5	20	4	9	WINGWALL														
D40(E)	②	5	2	10	3	WINGWALL	4	10	0	8										
D41(E)	①	5	12	3	11	WINGWALL	1	3 3/4	0	8 3/4	1	5 1/2	0	6	1	3 5/8	0	7 1/8		
D42(E)	⑤	5	14	5	7	WGWL. & BARRIER	1	9 1/2	0	6 1/2										
D43(E)	②	5	12	2	9	WGWL. & BARRIER														
D44(E)	STR	5	44	6	11	WGWL. & BARRIER														
D45(E)	③	5	14	6	5	BARRIER														
D46(E)	⑥	5	6	3	11	BARRIER	2	8 3/4	1	2 1/4	0	7 1/8	1	0 3/8						
D47(E)	⑥	5	6	4	1	BARRIER	2	9 1/2	1	3 1/2	0	7 3/4	1	1 3/8						



UPDATE DATE _____ LETTING DATE _____
 DESIGNED BY _____ CHECKED BY _____ DATE _____
 DETAILED BY _____ CHECKED BY _____ DATE _____
 PREPARED BY _____ CHECKED BY _____ DATE _____

WIDENING I-75 OVER TATES CREEK ROAD SHEET 44

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
MADISON
 COVINGTON-LEXINGTON-TENN. STATE LINE
 ROAD

STATION 632+93.47(I-75) P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.
DRAWING NO. 23677	

SUBSTRUCTURE BILL OF REINFORCEMENT

UPDATE DATE
LETTING DATE

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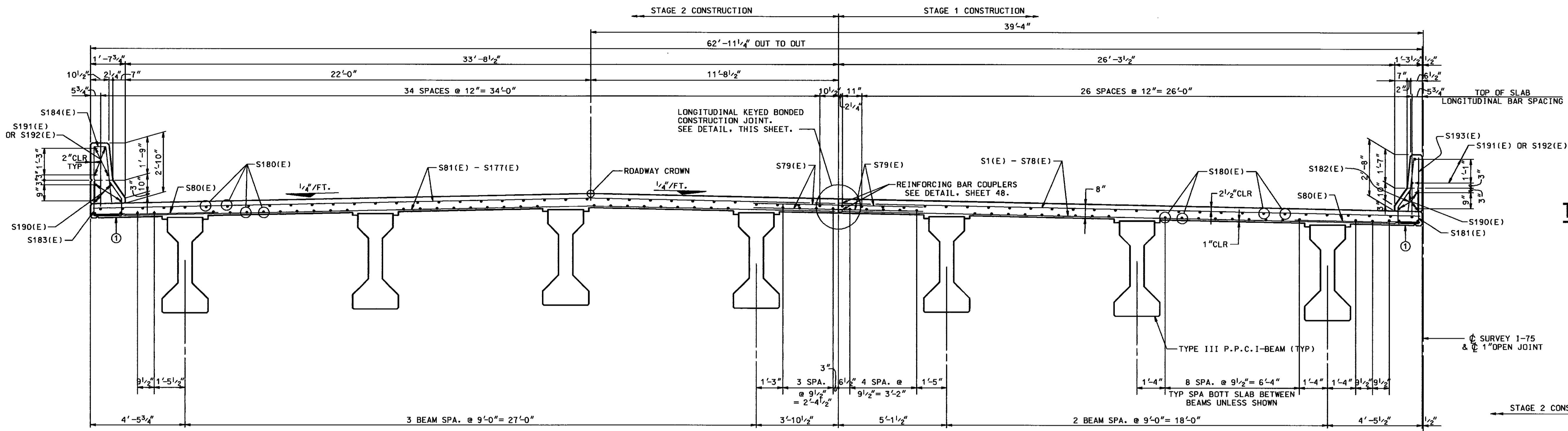
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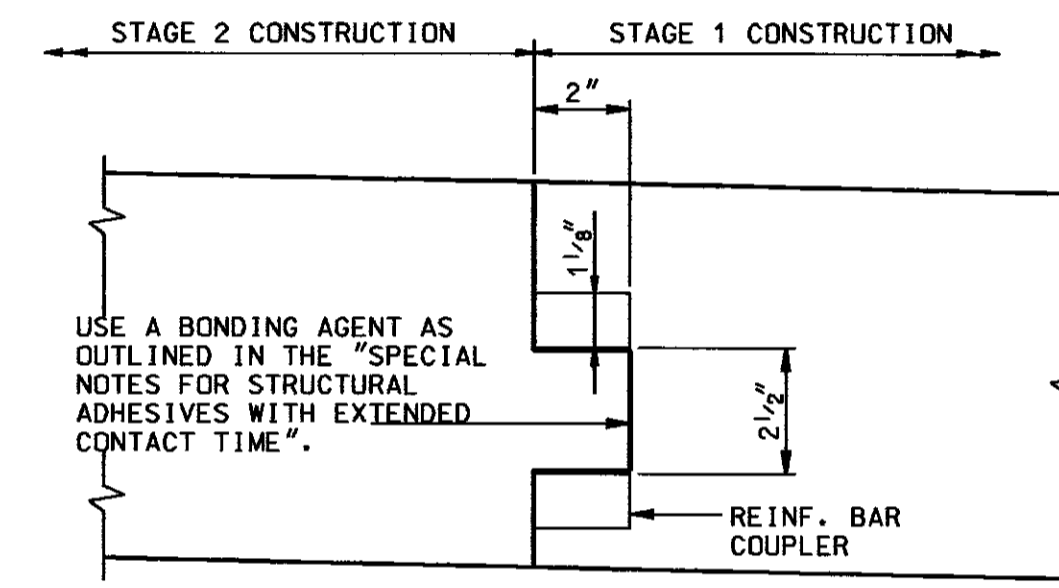
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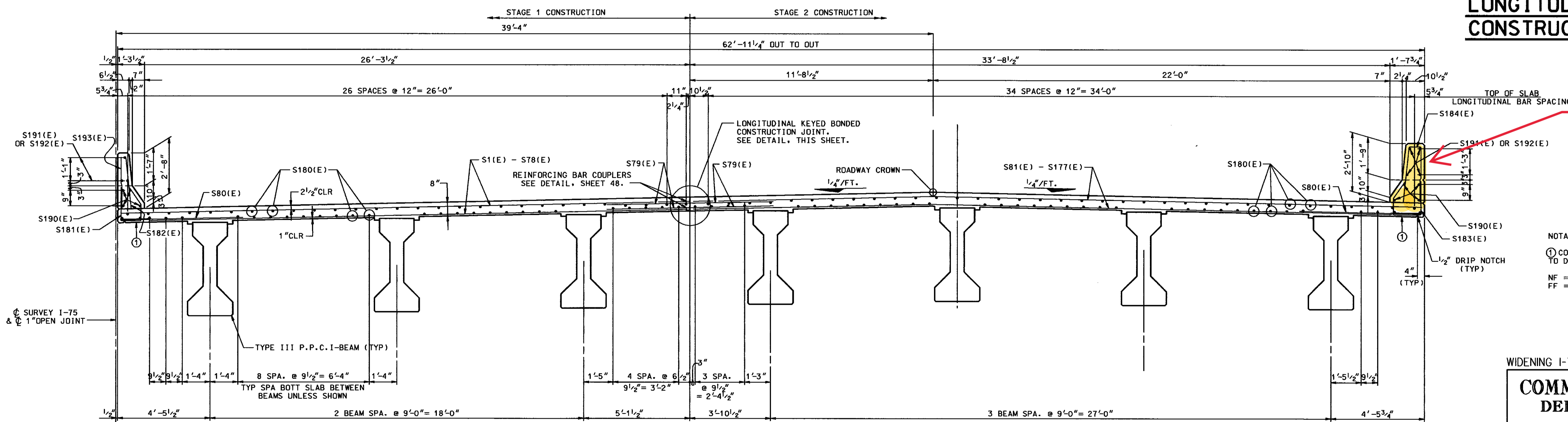
TYPICAL SECTION THRU NB DECK

TYPICAL FILLET DETAIL



LONGITUDINAL KEYED BONDED CONSTRUCTION JOINT DETAIL

NOTE: FOR PLACEMENT OF NEGATIVE MOMENT REINFORCEMENT AT PIERS, SEE SHEET 47.



TYPICAL SECTION THRU SB DECK

PORTION OF BARRIER AND DECK TO BE REPLACED

NOTATIONS

① CONSTRUCT OVERHANG PARALLEL TO DECK CROSS-SLOPE

NF = NEAR FACE

FF = FAR FACE

WIDENING I-75 OVER TATES CREEK ROAD SHEET 49

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
MADISON
COVINGTON-LEXINGTON-TENN.STATE LINE
ROAD
STATION 632+93.47(I-75)P. E. PROJECT NO.

SUPERSTRUCTURE

CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 23677

