





UPDATE DATE .....  
 LETTING DATE .....

SPECIFICATIONS

THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION SHALL APPLY TO THIS PROJECT.

DESIGN LOAD

THIS BRIDGE IS DESIGNED FOR HS20-44 LIVE LOAD, AS SPECIFIED IN 1985 AASHTO SPECIFICATIONS OR THE ALTERNATE LOADING OF TWO 24-KIP AXLES SPACED FOUR FEET APART, WHICHEVER PROVIDES THE GREATER STRESSES. THIS BRIDGE IS DESIGNED FOR A WIND LOAD BASED ON A WIND VELOCITY OF 84 MPH.

DESIGN METHOD

ALL REINFORCED CONCRETE MEMBERS ARE DESIGNED BY THE LOAD FACTOR METHOD AS SPECIFIED IN THE CURRENT AASHTO SPECIFICATIONS.

MATERIALS DESIGN SPECIFICATIONS

FOR CLASS "A" REINFORCED CONCRETE  
 F'C = 3500 PSI

FOR CLASS "AA" REINFORCED CONCRETE  
 F'C = 4000 PSI

FOR STEEL REINFORCEMENT  
 FY = 60000 PSI

FOR PRESTRESSED GIRDER CONCRETE  
 F'C = 5200 PSI  
 F'CI = 4300 PSI  
 F'S = 270000 PSI

FOR STRUCTURAL STEEL  
 FY = 36000 PSI FOR A36 STEEL

MATERIALS

ASTM SPECIFICATIONS, CURRENT EDITION, AS DESIGNATED BELOW SHALL GOVERN THE MATERIALS FURNISHED.

ASTM A36-84A	STRUCTURAL STEEL, 36,000 PSI MINIMUM YIELD
ASTM A416-80	LOW RELAXATION UNCOATED SEVEN-WIRE STABILIZED STRAND FOR PRESTRESSED CONCRETE, GRADE 270
ASTM A615-81A	DEFORMED AND PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, GRADE 60
ASTM A82-79	COLD DRAWN STEEL WIRE FOR CONCRETE REINFORCEMENT
ASTM D1752-67 (1978)	PREMOLDED CORK FILLER, TYPE II

CONCRETE

CLASS "AA" CONCRETE IS TO BE USED THROUGHOUT THE SUPERSTRUCTURE.  
 CLASS "A" CONCRETE IS TO BE USED THROUGHOUT THE SUBSTRUCTURE. PRESTRESSED GIRDER CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CLEANING AND PAINTING

ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SECTION 607.25 OF THE STANDARD SPECIFICATIONS.

PREFORMED CORK EXPANSION JOINT MATERIAL

PREFORMED CORK EXPANSION JOINT FILLER SHALL CONFORM TO SUBSECTION 807.03.02 (TYPE II) OF THE KENTUCKY DEPARTMENT OF HIGHWAYS SPECIFICATIONS.

JOINT WATERPROOFING

THE ABUTMENT & INTEGRAL PILE END BENT SHALL RECEIVE JOINT WATERPROOFING AT THE FOLLOWING LOCATIONS:

- 1) 1" VERTICAL JOINT IN THE DIAPHRAGM @ CENTERLINE I-64.
- 2) 1/2" HORIZONTAL JOINT AT THE JUNCTION BETWEEN THE END DIAPHRAGMS AND THE ABUTMENT CAP OR END BENT PILE CAP.
- 3) 1/2" VERTICAL JOINT IN THE WINGWALLS.

ALL WATERPROOFING MATERIALS USED SHALL CONFORM TO THE REQUIREMENTS OF SECTION 808 OF THE STANDARD SPECIFICATIONS. JOINT WATERPROOFING SHALL CONSIST OF AN ASPHALT PRIME COAT, AN ASPHALT MOPPING COAT, AND TWO ALTERNATE LAYERS OF FABRIC OF SPECIFIED WIDTHS AND ASPHALT MOPPING COATS. THE SURFACE OF CONCRETE FOR A DISTANCE OF AT LEAST 13 INCHES EACH SIDE OF THE JOINTS SHALL BE TREATED WITH A ASPHALT PRIME COAT AND PERMITTED TO SET THOROUGHLY BEFORE THE FIRST MOP COAT IS APPLIED. A MOP COAT OF HOT ASPHALT SHALL THEN BE APPLIED AND A STRIP OF FABRIC 12 INCHES WIDE PRESSED INTO IT AND CENTERED OVER THE JOINT. THIS SHALL BE FOLLOWED WITH A SECOND MOPPING OF HOT ASPHALT, COVERING THE FABRIC AND THE REMAINING PRIMED SURFACE, AND A STRIP OF FABRIC 24 INCHES WIDE PRESSED AND CENTERED OVER THE JOINT. A FINAL MOPPING OF HOT ASPHALT COMPLETELY COVERING THE FABRIC AND LAPPING ONTO THE CONCRETE SHALL THEN BE APPLIED. THE COST OF THIS WORK INCLUDING ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN A SATISFACTORY MANNER IS TO BE INCLUDED IN THE UNIT PRICE FOR CLASS "A" CONCRETE.

SLOPE PROTECTION

SLOPE PROTECTION SHALL BE CRUSHED AGGREGATE SLOPE PROTECTION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

PRESTRESSING REINFORCEMENT

PRESTRESSING STRANDS SHALL BE STABILIZED STRAND (1/2" NOMINAL DIAMETER 270 GRADE LOW-RELAXATION UNCOATED SEVEN-WIRE STRAND IN ACCORDANCE WITH ASTM A416).

UNCOATED SEVEN-WIRE STRESS-RELIEVED STRAND IN ACCORDANCE WITH AASHTO M 203 GRADE 270 MAY BE USED INSTEAD OF STABILIZED. HOWEVER, IF THE STRESS-RELIEVED STRAND ALTERNATE IS CHOSEN, THE CONSULTANT THAT DEVELOPED THESE PLANS SHALL PROVIDE THE DESIGN FOR THE STRESS-RELIEVED STRAND AND ALSO REVISE THE ORIGINAL PLANS TO REFLECT THE CHANGES.

THIS DESIGN AND PLAN MODIFICATION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. COST OF THE PRESTRESSING STRAND IS INCLUDED IN THE COST OF THE PRESTRESSED BEAM.

ELASTOMERIC BEARING PADS (SHIMMED AND NON-SHIMMED)

THE MATERIAL SPECIFICATIONS FOR ELASTOMERIC BEARING PADS SHALL CONFORM TO THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES EXCEPT THAT THE REQUIREMENT OF THE LOW TEMPERATURE TEST IS WAIVED AND A DUROMETER HARDNESS OF 50 OR 60 IS REQUIRED. THE COST OF THIS ITEM IS TO BE INCLUDED IN THE PRICE PER LINEAR FOOT FOR PRECAST BEAMS.

DEFORMED WIRE FABRIC

DEFORMED WIRE FABRIC MAY BE USED IN THE PRECAST BEAMS IN LIEU OF REINFORCING BARS, PROVIDED AN EQUIVALENT AREA OF STEEL IS FURNISHED. WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M 221 (A497) AND IS TO BE MADE OF DEFORMED WIRE CONFORMING TO AASHTO SPECIFICATION M 225 (A496).

STYROFOAM FORM FOR DIAPHRAGM KEYS

A STYROFOAM PAD SHALL BE PLACED OVER THE SHEAR KEYS WHEN FORMING THE DIAPHRAGM. WHEN THE CONCRETE IN THE DIAPHRAGM HAS SET THE STYROFOAM SHALL BE REMOVED.

REINFORCEMENT

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE CLEAR DISTANCES UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS.

EPOXY COATED REINFORCING STEEL

ALL REINFORCING BARS DESIGNATED BY SUFFIX (E) IN THE PLANS SHALL BE EPOXY COATED IN ACCORDANCE WITH SECTION 811.10 OF THE STANDARD SPECIFICATIONS.

BEVELED EDGES

ALL EXPOSED EDGES SHALL BE BEVELED 7/8" UNLESS OTHERWISE SHOWN.

REMOVE CONCRETE MASONRY

PORTIONS OF THE EXISTING REINFORCED CONCRETE BRIDGE SHALL BE REMOVED AS SHOWN ON THE PLANS. CONCRETE REMOVAL SHALL BE DONE IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED IN THE PLANS. PROPER CARE SHALL BE TAKEN TO PROTECT THE EXISTING REINFORCEMENT SO IT CAN BE REUSED IN THE NEW CONSTRUCTION.

EXISTING REINFORCING STEEL

THE EXISTING REINFORCING STEEL, AS NOTED IN THE PLANS, SHALL BE EXPOSED AND CLEANED OF CONCRETE, EXCESSIVE RUST, AND OTHER FOREIGN MATTER. IT SHALL BE STRAIGHTENED AND BENT TO LAP WITH THE NEW BARS. MINIMUM LAPS, AS SHOWN ON THE PLANS, ARE REQUIRED AND THE EXCESS MAY BE CUT OFF. THE COST OF CUTTING, BENDING AND CLEANING EXISTING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR REMOVE CONCRETE MASONRY.

BONDING NEW CONCRETE TO OLD CONCRETE

NEW CONCRETE SHALL BE BONDED TO OLD CONCRETE AS SHOWN ON PLANS WITH A TWO-COMPONENT EPOXY RESIN SYSTEM CONFORMING TO SECTION 736 AND 833 OF THE SPECIFICATIONS. THE COST OF THIS WORK, INCLUDING ALL LABOR, TOOLS AND MATERIALS IS TO BE INCIDENTAL TO THE UNIT PRICE BID FOR CLASS "A" CONCRETE OR CLASS "AA" CONCRETE AS NOTED IN THE PLANS.

DRILLING HOLES AND GROUTING DOWEL BARS INTO EXISTING CONCRETE

THE COST OF DRILLING HOLES IN EXISTING CONCRETE AND GROUTING DOWEL BARS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS "A" CONCRETE OR CLASS "AA" CONCRETE AS NOTED IN THE PLANS. GROUTING SHALL BE IN ACCORDANCE WITH SECTION 736 AND 833 OF THE STANDARD SPECIFICATIONS.

BILL OF INCIDENTAL MATERIAL

THE QUANTITIES SHOWN IN THE "BILL OF INCIDENTAL MATERIALS" ARE APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ENOUGH MATERIAL TO COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE COST OF THESE ITEMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE QUANTITIES SPECIFIED IN THE "BILL OF INCIDENTAL MATERIALS" TABLE.

DESIGNED BY: SLM  
 CHECKED BY: SRS  
 DATE: 12/28/88  
 REVISIONS:  
 DATE: 12/28/88  
 CHECKED BY: SRS & SLM  
 DATE: 12/28/88  
 TRACED BY: SRS & SLM  
 DATE: 12/28/88

Widen I-64 Over Tucker Station Road SHEET 3

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS

FRANKFORT  
 COUNTY OF

JEFFERSON  
 ROAD  
 LOUISVILLE - LEXINGTON

STATION 477+11.37 P. E. PROJECT NO.

CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.

DRAWING NO.  
 21440

**GENERAL NOTES**

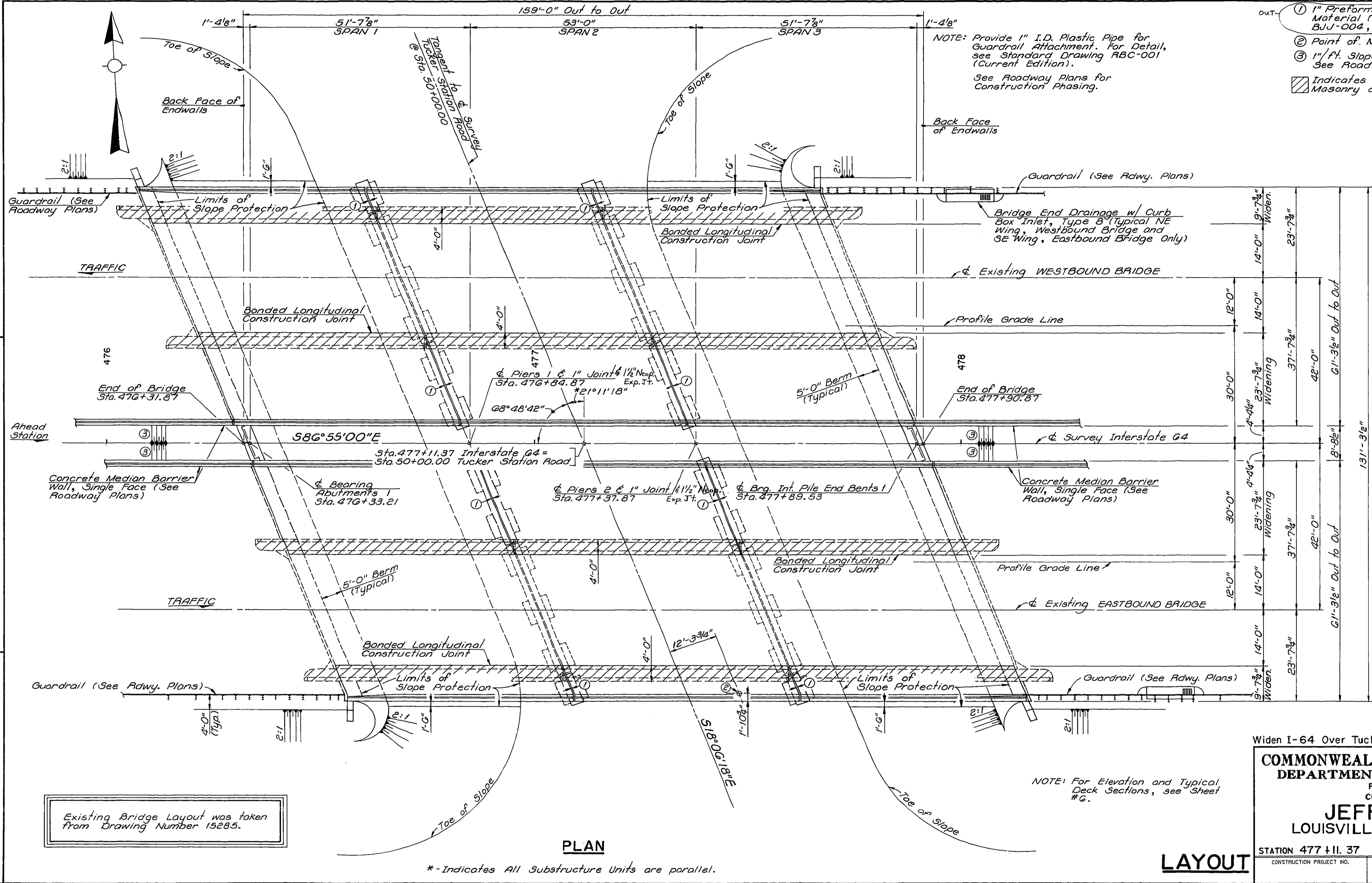


UPDATE DATE ..... LETTING DATE .....

DESIGNED BY: *SLM* DATE: *8-86* CHECKED BY: *SLM* DATE: *8-86* REVISION: *1*

DETAILED BY: *SLM* DATE: *8-86* CHECKED BY: *SLM* DATE: *8-86* REVISION: *1*

TRACED BY: *SLM* DATE: *8-86* CHECKED BY: *SLM* DATE: *8-86* REVISION: *1*



- OUT-
- ① 1" Preformed Cork Expansion Joint Material (Standard Drawing BUJ-004, Current Edition)
  - ② Point of Minimum Vertical Clearance
  - ③ 1" Ft. Slope (Median Embankment, See Roadway Plans)
- Indicates to Remove Concrete Masonry and Existing Handrail

NOTE: Provide 1" I.D. Plastic Pipe for Guardrail Attachment. For Detail, see Standard Drawing ABC-001 (Current Edition).  
See Roadway Plans for Construction Phasing.

Existing Bridge Layout was taken from Drawing Number 15285.

PLAN

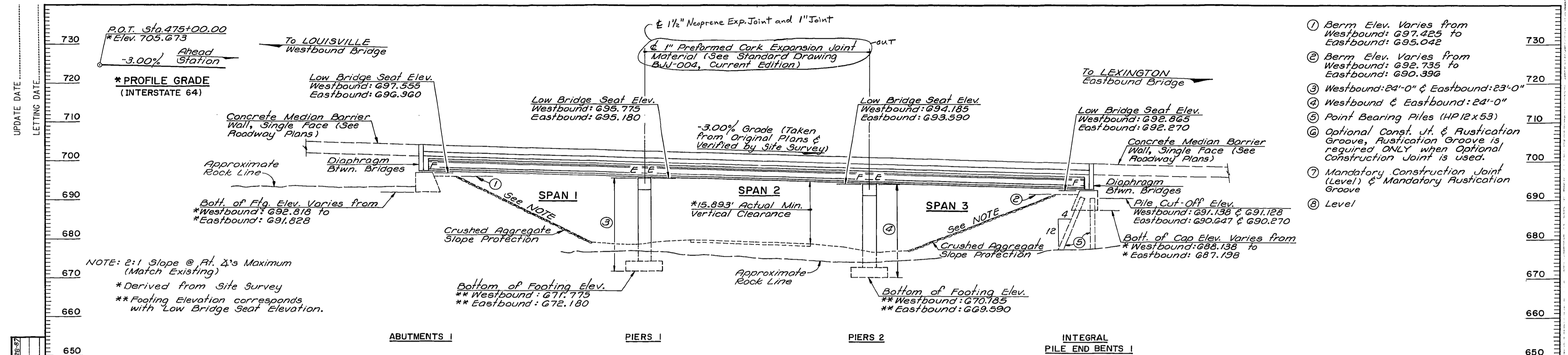
\*-Indicates All Substructure Units are parallel.

NOTE: For Elevation and Typical Deck Sections, see Sheet #6.

LAYOUT

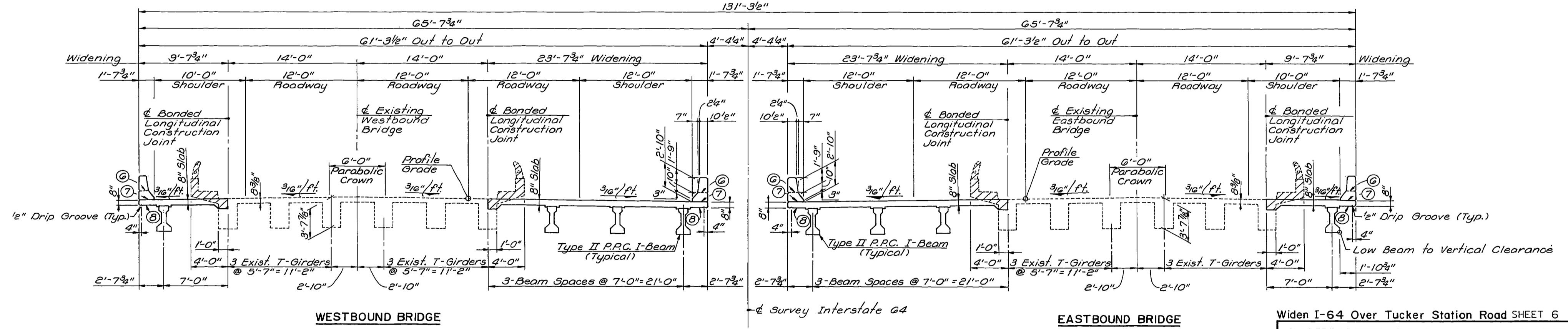
Widen I-64 Over Tucker Station Road SHEET 5

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 ROAD  
**LOUISVILLE - LEXINGTON**  
 STATION 477 +11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
 DRAWING NO. 21440



- ① Berm Elev. Varies from Westbound: 697.425 to Eastbound: 695.042
- ② Berm Elev. Varies from Westbound: 692.735 to Eastbound: 690.396
- ③ Westbound: 24'-0" & Eastbound: 23'-0"
- ④ Westbound & Eastbound: 24'-0"
- ⑤ Point Bearing Piles (HP12x53)
- ⑥ Optional Const. Jt. & Rustication Groove, Rustication Groove is required ONLY when Optional Construction Joint is used.
- ⑦ Mandatory Construction Joint (Level) & Mandatory Rustication Groove
- ⑧ Level

DATE: 2-28-92  
 CHECKED BY: HMM  
 DESIGNED BY: SLM  
 DRAWN BY: SLM  
 REVISIONS: 1. DATE: 2-28-92  
 2. DATE: 3-11-92  
 3. DATE: 3-11-92  
 4. DATE: 3-11-92  
 5. DATE: 3-11-92  
 6. DATE: 3-11-92  
 7. DATE: 3-11-92  
 8. DATE: 3-11-92  
 9. DATE: 3-11-92  
 10. DATE: 3-11-92  
 11. DATE: 3-11-92  
 12. DATE: 3-11-92  
 13. DATE: 3-11-92  
 14. DATE: 3-11-92  
 15. DATE: 3-11-92  
 16. DATE: 3-11-92  
 17. DATE: 3-11-92  
 18. DATE: 3-11-92  
 19. DATE: 3-11-92  
 20. DATE: 3-11-92  
 21. DATE: 3-11-92  
 22. DATE: 3-11-92  
 23. DATE: 3-11-92  
 24. DATE: 3-11-92  
 25. DATE: 3-11-92  
 26. DATE: 3-11-92  
 27. DATE: 3-11-92  
 28. DATE: 3-11-92  
 29. DATE: 3-11-92  
 30. DATE: 3-11-92  
 31. DATE: 3-11-92  
 32. DATE: 3-11-92  
 33. DATE: 3-11-92  
 34. DATE: 3-11-92  
 35. DATE: 3-11-92  
 36. DATE: 3-11-92  
 37. DATE: 3-11-92  
 38. DATE: 3-11-92  
 39. DATE: 3-11-92  
 40. DATE: 3-11-92  
 41. DATE: 3-11-92  
 42. DATE: 3-11-92  
 43. DATE: 3-11-92  
 44. DATE: 3-11-92  
 45. DATE: 3-11-92  
 46. DATE: 3-11-92  
 47. DATE: 3-11-92  
 48. DATE: 3-11-92  
 49. DATE: 3-11-92  
 50. DATE: 3-11-92  
 51. DATE: 3-11-92  
 52. DATE: 3-11-92  
 53. DATE: 3-11-92  
 54. DATE: 3-11-92  
 55. DATE: 3-11-92  
 56. DATE: 3-11-92  
 57. DATE: 3-11-92  
 58. DATE: 3-11-92  
 59. DATE: 3-11-92  
 60. DATE: 3-11-92  
 61. DATE: 3-11-92  
 62. DATE: 3-11-92  
 63. DATE: 3-11-92  
 64. DATE: 3-11-92  
 65. DATE: 3-11-92  
 66. DATE: 3-11-92  
 67. DATE: 3-11-92  
 68. DATE: 3-11-92  
 69. DATE: 3-11-92  
 70. DATE: 3-11-92  
 71. DATE: 3-11-92  
 72. DATE: 3-11-92  
 73. DATE: 3-11-92  
 74. DATE: 3-11-92  
 75. DATE: 3-11-92  
 76. DATE: 3-11-92  
 77. DATE: 3-11-92  
 78. DATE: 3-11-92  
 79. DATE: 3-11-92  
 80. DATE: 3-11-92  
 81. DATE: 3-11-92  
 82. DATE: 3-11-92  
 83. DATE: 3-11-92  
 84. DATE: 3-11-92  
 85. DATE: 3-11-92  
 86. DATE: 3-11-92  
 87. DATE: 3-11-92  
 88. DATE: 3-11-92  
 89. DATE: 3-11-92  
 90. DATE: 3-11-92  
 91. DATE: 3-11-92  
 92. DATE: 3-11-92  
 93. DATE: 3-11-92  
 94. DATE: 3-11-92  
 95. DATE: 3-11-92  
 96. DATE: 3-11-92  
 97. DATE: 3-11-92  
 98. DATE: 3-11-92  
 99. DATE: 3-11-92  
 100. DATE: 3-11-92



Existing Deck Sections were taken from Drawing Number 15285.

Indicates to Remove Concrete Masonry and Existing Handrail.

**ELEVATION AND TYPICAL DECK SECTIONS**

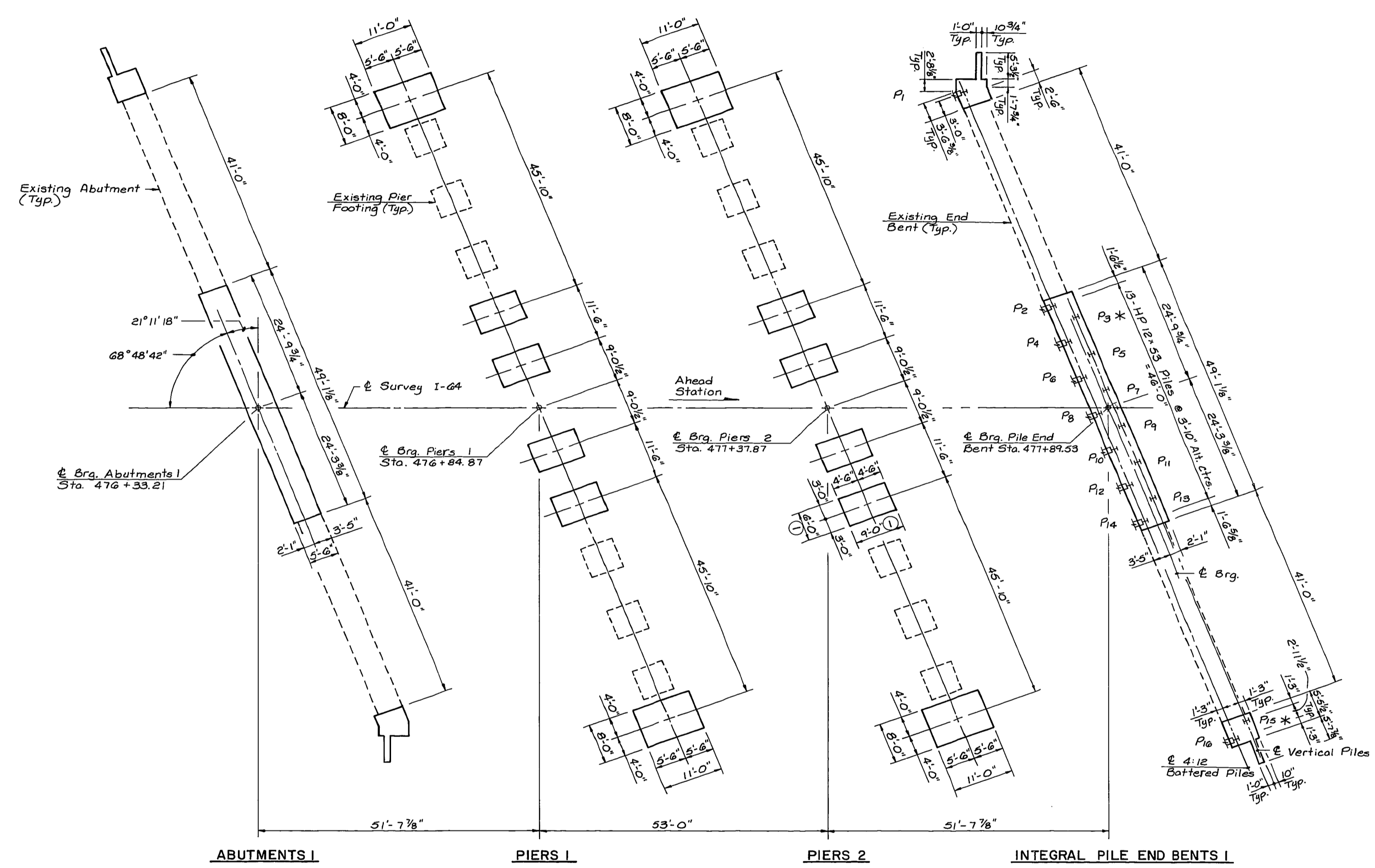
Widen I-64 Over Tucker Station Road SHEET 6

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
FRANKFORT  
COUNTY OF  
**JEFFERSON**  
ROAD  
LOUISVILLE - LEXINGTON  
STATION 477 + II. 37 P.E. PROJECT NO.  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440

UPDATE DATE  
LETTING DATE

PILE RECORD			
PILE NUMBER	CUTOFF ELEVATION AS SHOWN	TIP-OF-PILE AS DRIVEN	CALCULATED BEARING CAPACITY (TONS)
P1	691.138		
P2	691.128		
P3 *			
P4			
P5			
P6			
P7	691.128		
P8	690.647		
P9			
P10			
P11			
P12			
P13			
P14	690.647		
P15 *	690.270		
P16	690.270		

REVISIONS  
 CHECKED BY: SRS DATE: 9/86  
 CHECKED BY: SLM DATE: 9/86  
 CHECKED BY: SWF DATE: 9/86  
 CHECKED BY: DATE: 9/86



PILE RECORD  
 AFTER ALL PILES HAVE BEEN DRIVEN, THE ENGINEER SHALL RECORD FOR EACH PILE, THE TIP-OF-PILE ELEVATION AS DRIVEN, THE LENGTH OF PILE IN PLACE AND THE CALCULATED BEARING CAPACITY AND SHALL RETURN ONE BLUE LINE COPY OF THIS SHEET WITH THIS DATA TO THE DIRECTOR OF THE DIVISION OF BRIDGES SO THAT THE DATA MAY BE RECORDED ON THE ORIGINAL PLANS. LENGTHS OF PILES IN PLACE SHOWN HEREON ARE THE ACTUAL LENGTHS OF PILES IN THE FINISHED STRUCTURE BELOW CUTOFF ELEVATION.  
 THIS PILE RECORD DOES NOT REPLACE OTHER RECORDS OF PILES REQUIRED TO BE KEPT AND SUBMITTED BY THE RESIDENT ENGINEER.

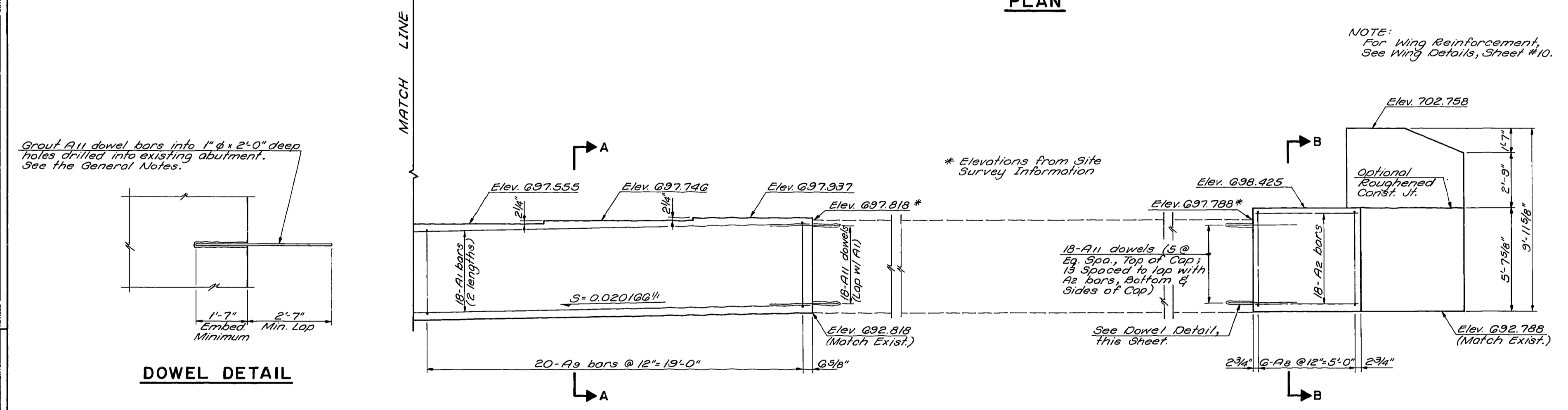
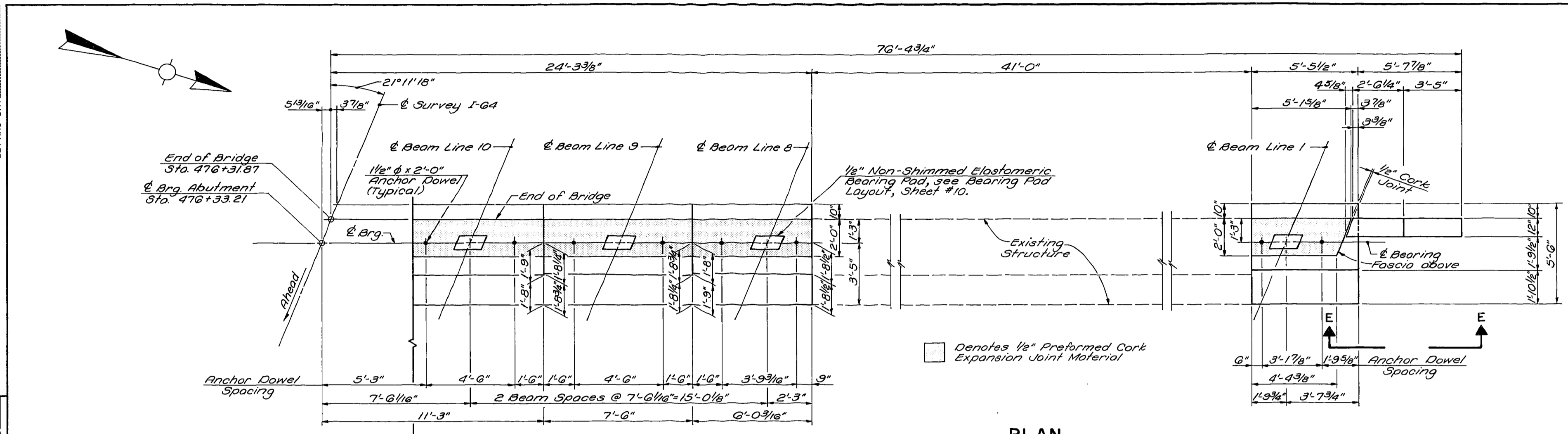
Notes:  
 All Substructure Units are parallel  
 \* Denotes Test Piles  
 (1) Typical except where noted.  
 All Piles are HP 12x53

**SUBSTRUCTURE LAYOUT & PILE RECORD**

Widen I-64 Over Tucker Station Road SHEET 7  
**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 + 11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 21440

UPDATE DATE  
LETTING DATE

DESIGNED BY: S.M. / DATE: 5/25 / 1966  
 CHECKED BY: Z.L.F. / DATE: 5/25 / 1966  
 TRACED BY: / DATE: /



**DOWEL DETAIL**

**ABUTMENT**

Widen I-64 Over Tucker Station Road SHEET 8

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 + 11.37 P.E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440



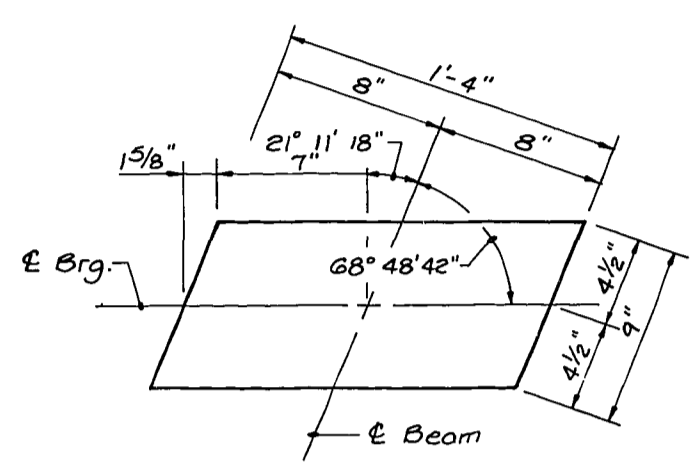




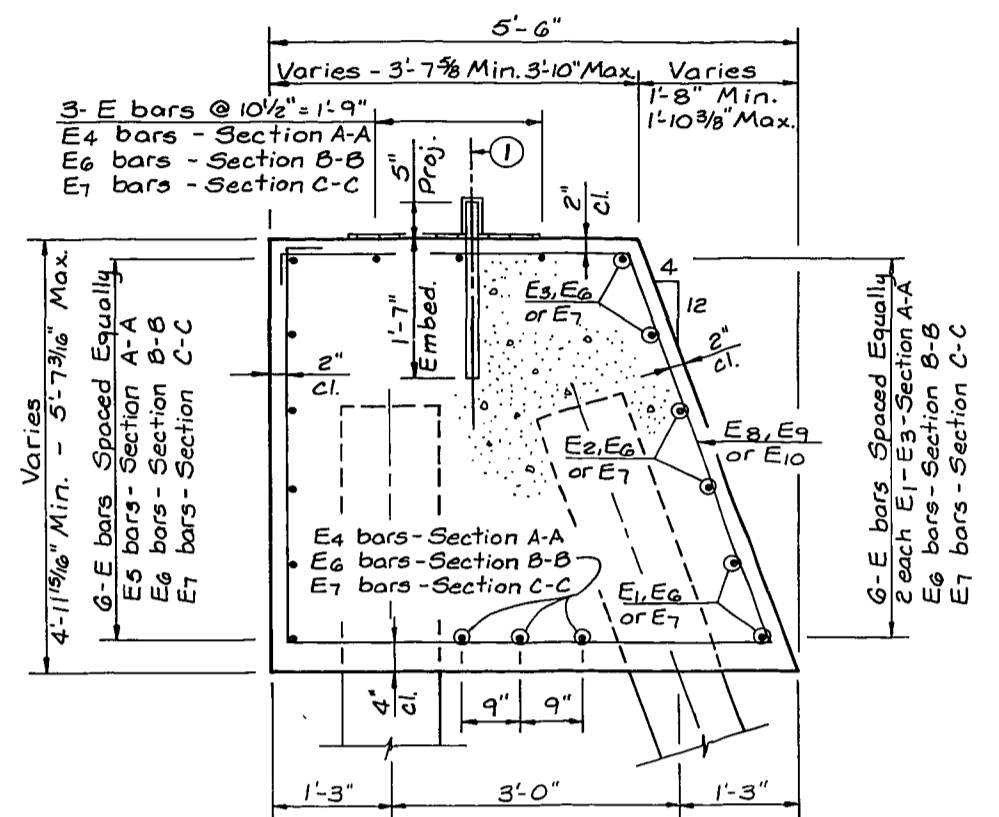


UPDATE DATE  
LETTING DATE

DESIGNED BY: SLM  
CHECKED BY: SLM  
DATE: 5-1-82  
REVISIONS:  
DATE: 5-1-82  
REVISIONS:  
DATE: 5-1-82  
REVISIONS:  
DATE: 5-1-82  
REVISIONS:



**BEARING PAD LAYOUT**

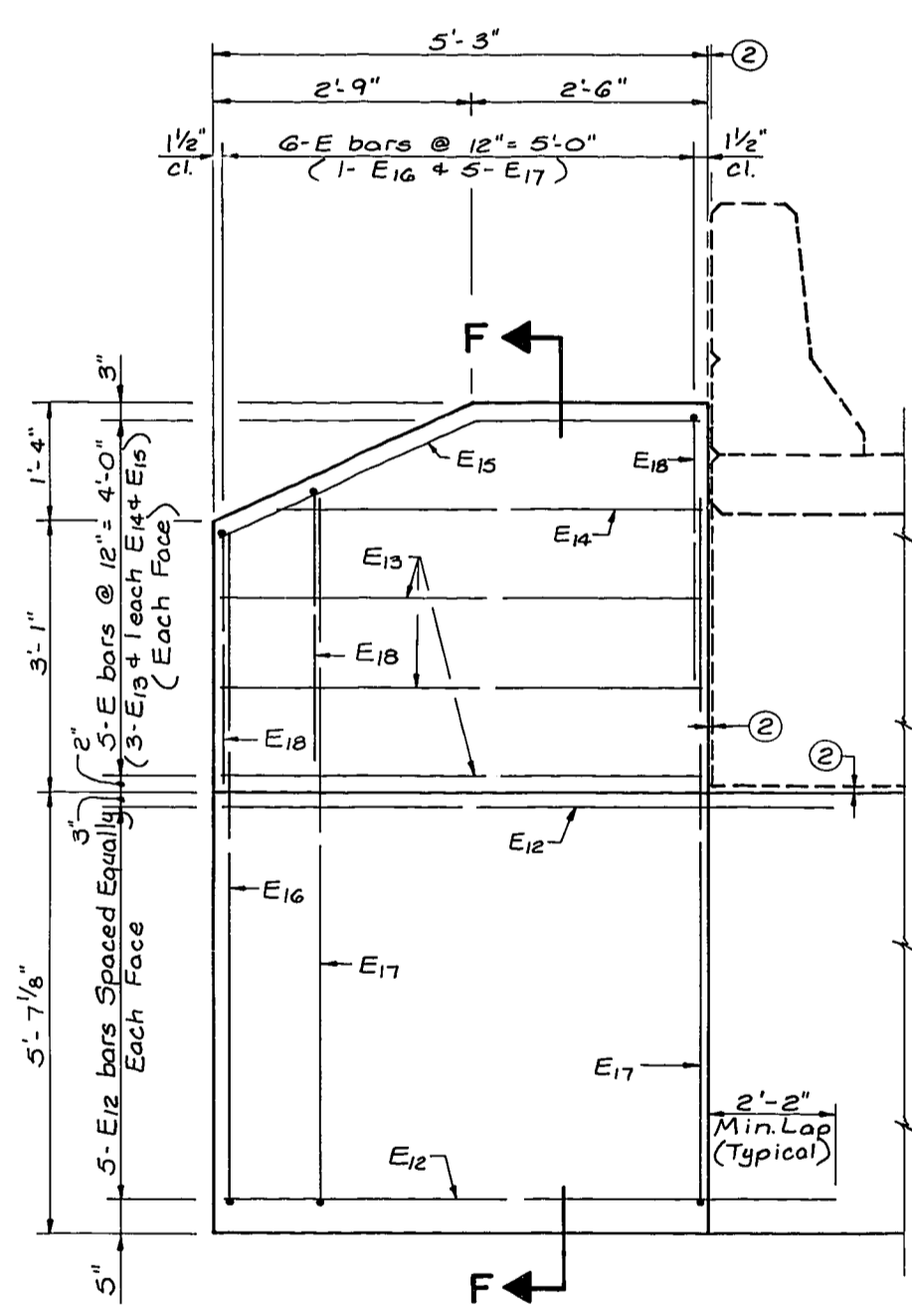


**SECTION A-A  
SECTION B-B  
SECTION C-C**

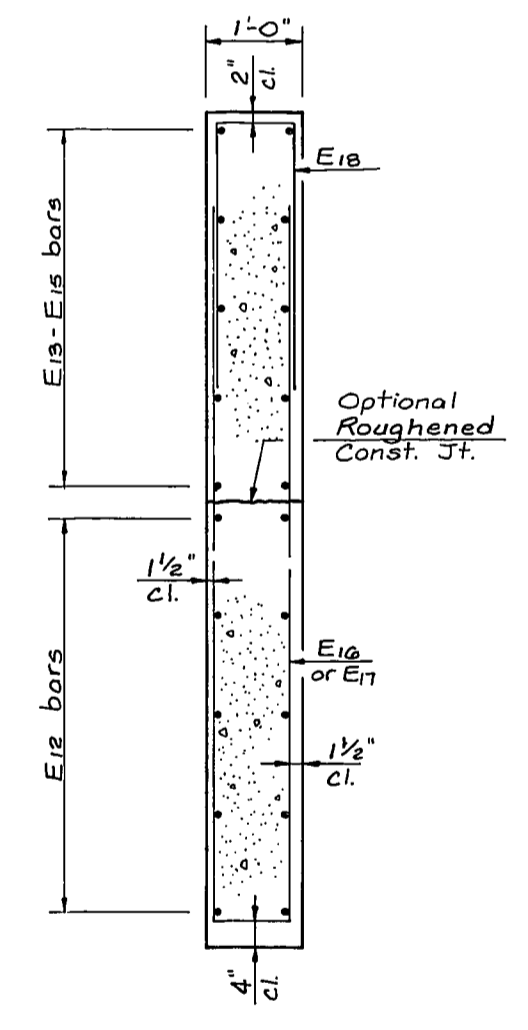
ESTIMATE OF QUANTITIES			
ITEM	UNIT	QUANTITY	
CLASS A CONCRETE	C.Y.	281	292
STEEL REINFORCEMENT	LBS.	1952	1952

W BOUND - DENOTES WEST BOUND STRUCTURE  
E BOUND - DENOTES EAST BOUND STRUCTURE

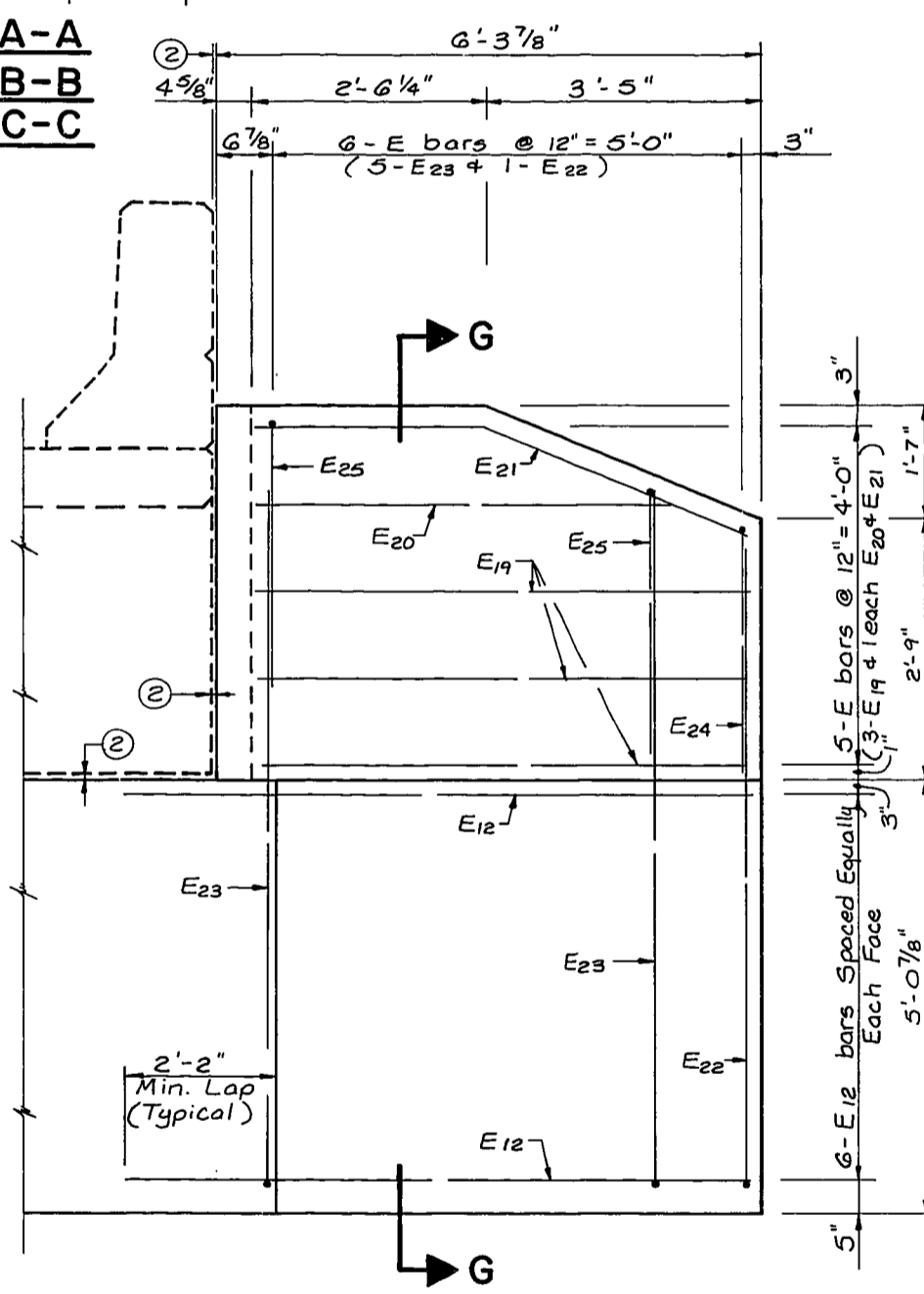
- ①  $\phi$  Bearing &  $\phi$  1 1/2"  $\phi$  x 2'-0" Anchor Dowel (See Note)
- ② 1/2" Preformed Cork Expansion Joint Material with Joint Waterproofing on earth side. Cost incidental to Class "A" Concrete.



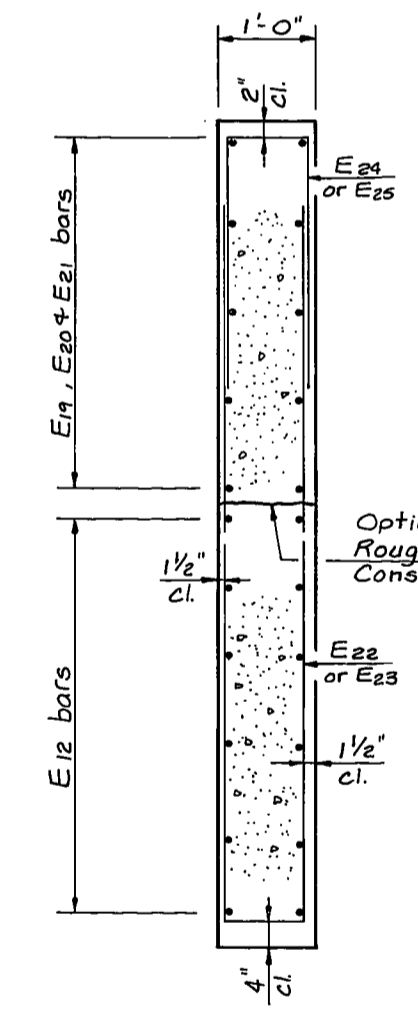
**VIEW D-D**



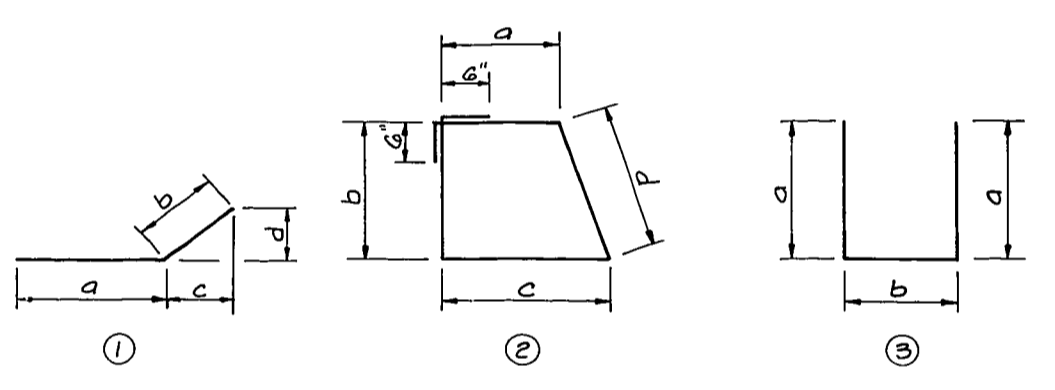
**SECTION F-F**



**VIEW E-E**



**SECTION G-G**



Notes:  
Anchor Dowels to be 1 1/2"  $\phi$  x 2'-0" AASHTO M222 Steel Pins. Dowel Sleeve to be 2"  $\phi$  x 5" Standard Weight Pipe Sleeve closed at one end. Cost of Dowel and Sleeve are incidental to Class "A" Concrete. Pipe Sleeves to be secure to prevent floating while pouring concrete. Dowels to be in place before cap is poured.

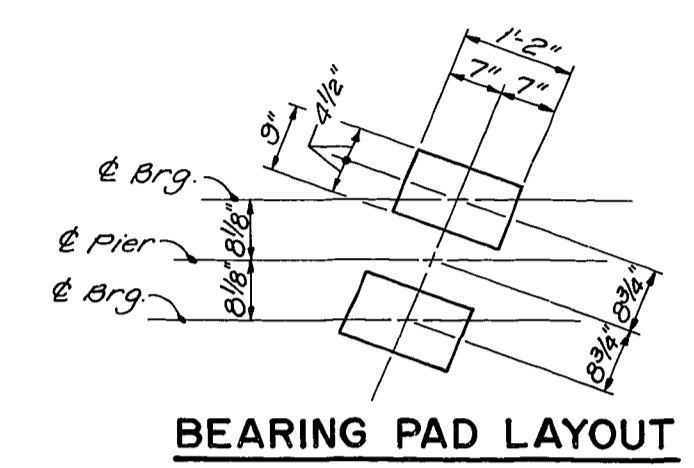
BILL OF REINFORCEMENT													
MARK	TYPE	SIZE	NUMBER	LENGTH	LOCATION	a		b		c		d	
						Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
E1	①	#6	2	5 11	Cap	2	6	3	3	2 1/4	1	2 3/4	
E2	①	#6	2	5 8		2	4	3	4	3 1/4	1	2 1/2	
E3	①	#6	2	5 4		2	2	3	2	2 11/8	1	1 3/4	
E4	Str.	#6	6	4 6									
E5	①	#6	6	3 11		1	5	2	6	2	4	0 10 7/8	
E6	Str.	#6	36	23 10									
E7	Str.	#6	18	5 4									
E8	②	#5	5	19 8		3	3	5	1	5	2	5 5/4	
E9	②	#5	42	18 7		3	4	4	6	5	2	4 10 1/4	
E10	②	#5	13	19 0		3	3	4	9	5	2	5 1 1/2	
E11	Str.	#6	72	4 2	Cap								
E12	Str.	#6	22	7 9	Wingwalls								
E13	Str.	#4	6	5 0									
E14	Str.	#4	2	4 6									
E15	①	#4	2	5 2		2	10	2	4	2	1 1/8	1 0 1/2	
E16	③	#5	1	15 6		7	5	0	9				
E17	③	#5	5	18 2		8	9	0	9				
E18	③	#5	6	6 6		2	11	0	9				
E19	Str.	#4	6	5 8									
E20	Str.	#4	2	5 1									
E21	①	#4	2	5 11		3	7	2	4	2	1 3/8	0 11 3/4	
E22	③	#5	1	14 6		6	11	0	9				
E23	③	#5	5	16 4		7	10	0	9				
E24	③	#5	1	5 10		2	7	0	9				
E25	③	#5	5	5 0	Wingwalls	2	2	0	9				

Widen I-64 Over Tucker Station Road SHEET 13  
**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 + 11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 21440

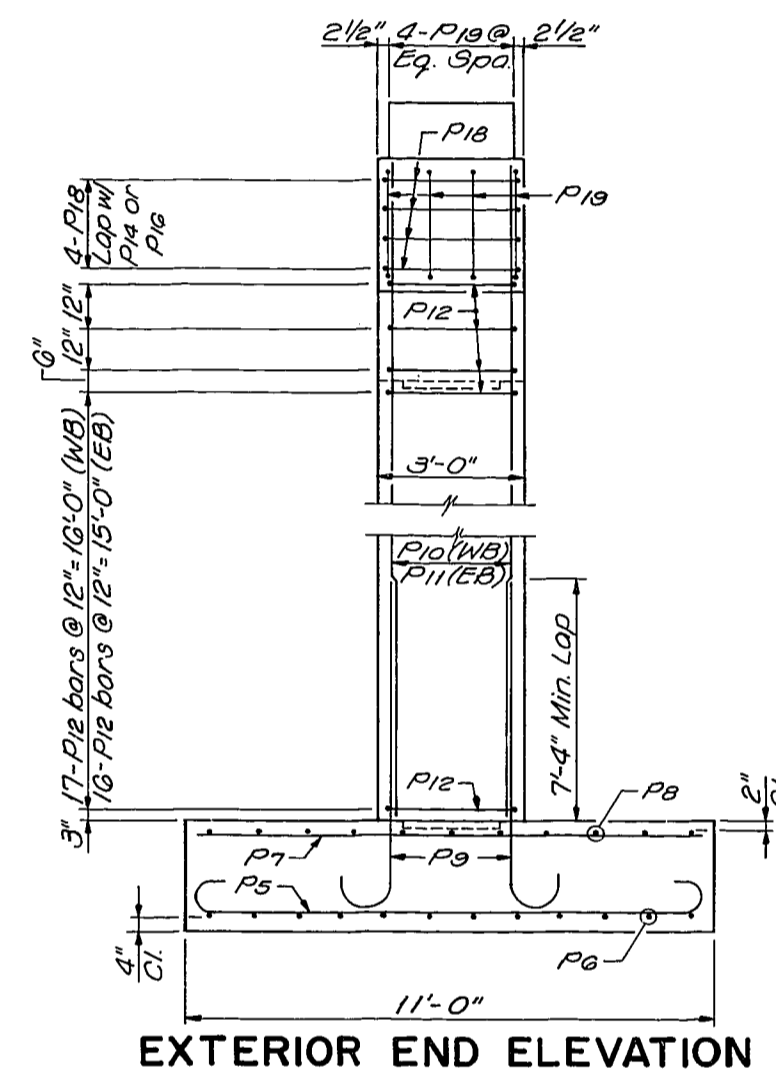
**INTEGRAL PILE END BENT DETAILS**

UPDATE DATE  
LETTING DATE

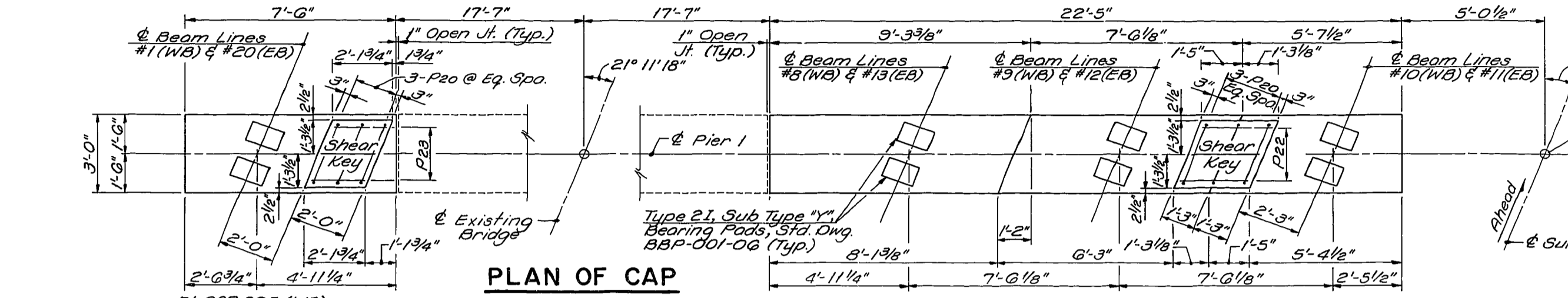
DESIGNED BY	DATE	REVISION	DATE
CHECKED BY	DATE	REVISION	DATE
RETRACED BY	DATE	REVISION	DATE
TRACED BY	DATE	REVISION	DATE



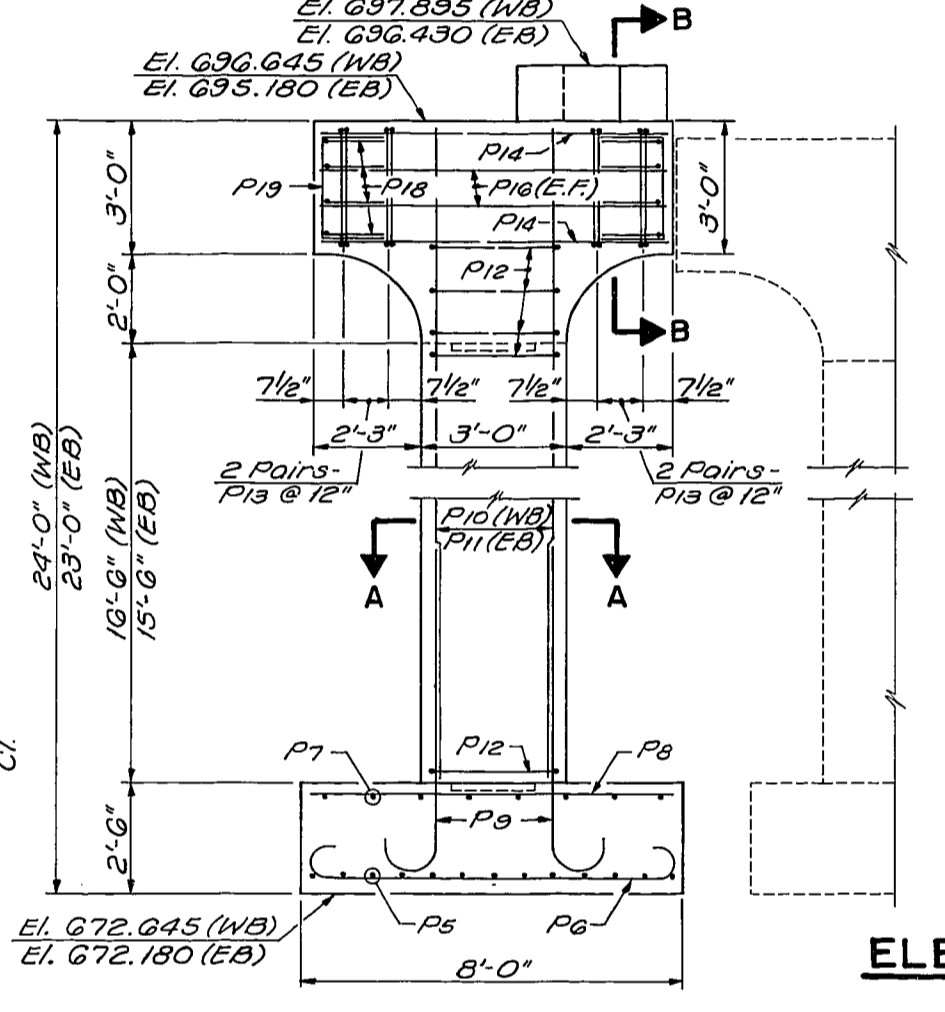
**BEARING PAD LAYOUT**



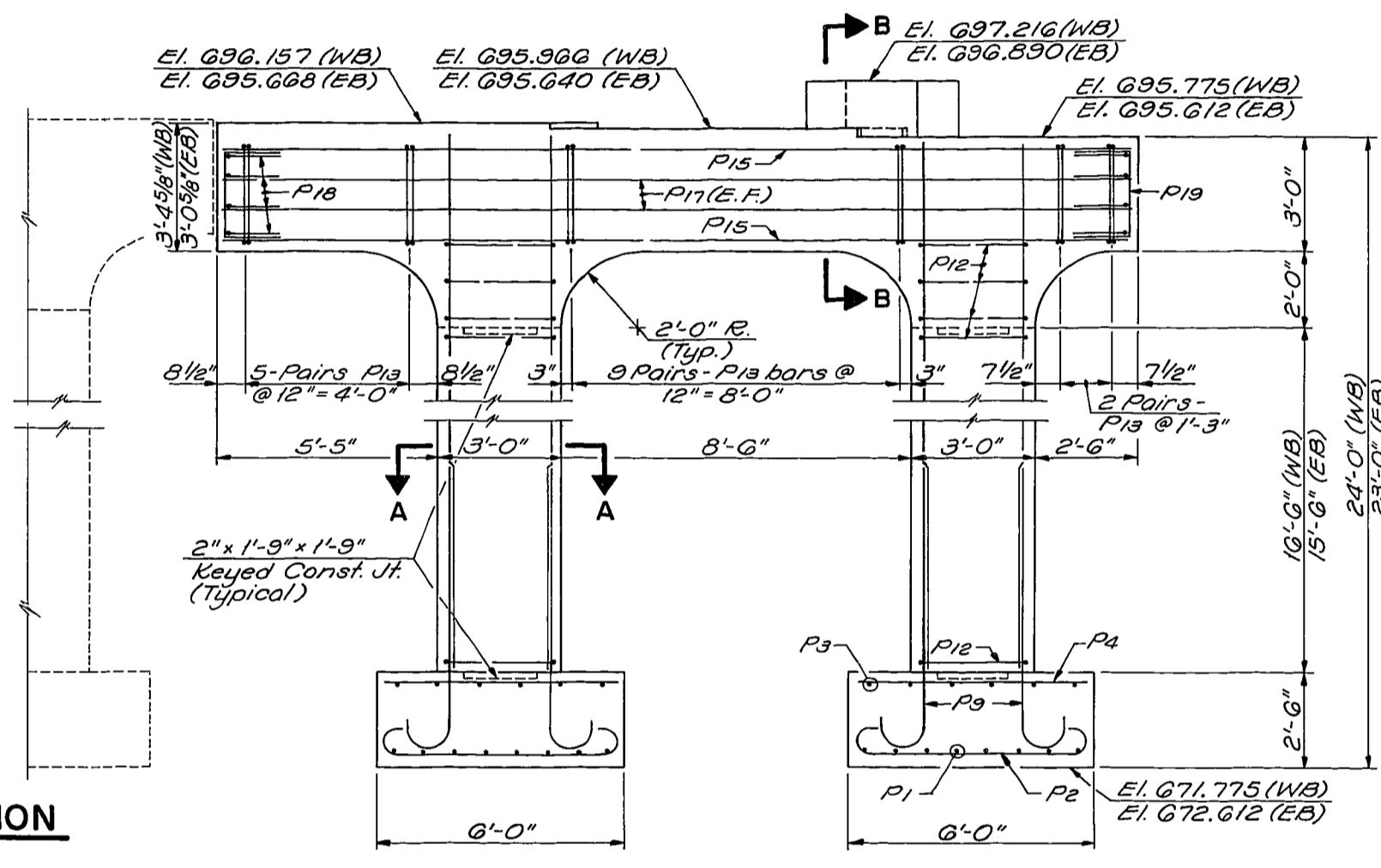
**EXTERIOR END ELEVATION**



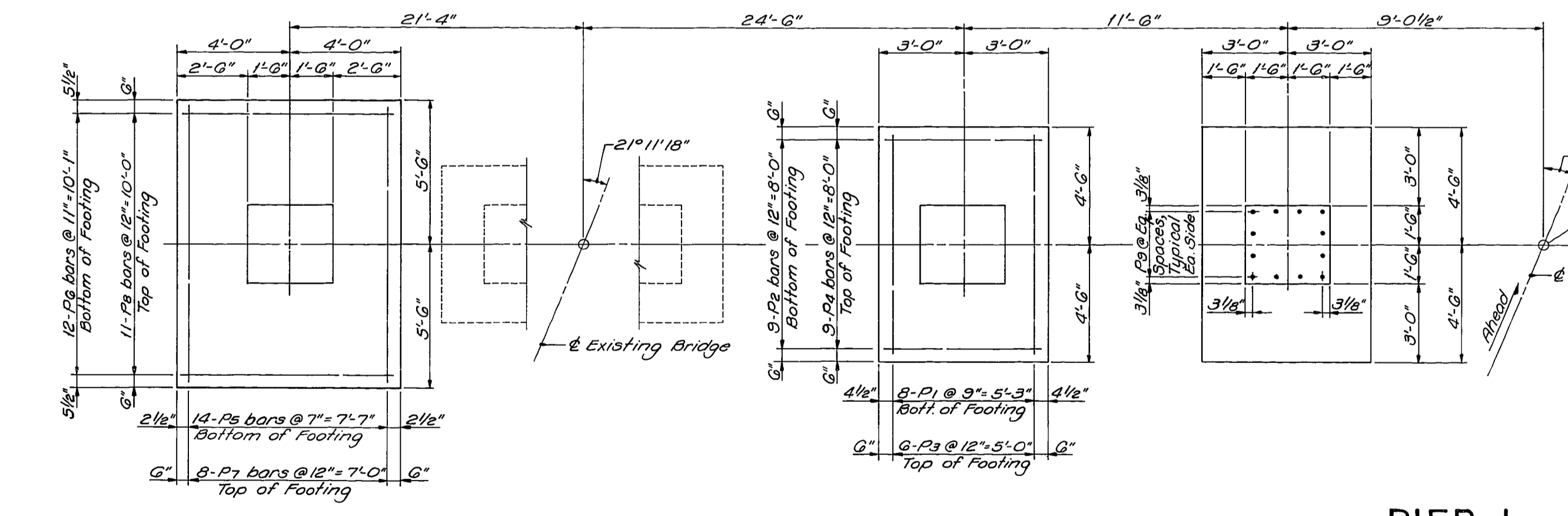
**PLAN OF CAP**



**ELEVATION**

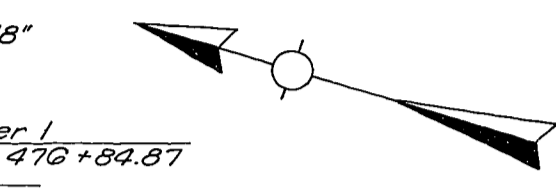


**MEDIAN END ELEVATION**



**PLAN OF FOOTING**

**PIER I**



Note: Pier is symmetrical about & except as noted.

For Section A-A & B-B see Sheet #10  
E.F. denotes Each Face  
WB denotes Westbound Bridge  
EB denotes Eastbound Bridge

Widen I-64 Over Tucker Station Road SHEET 14

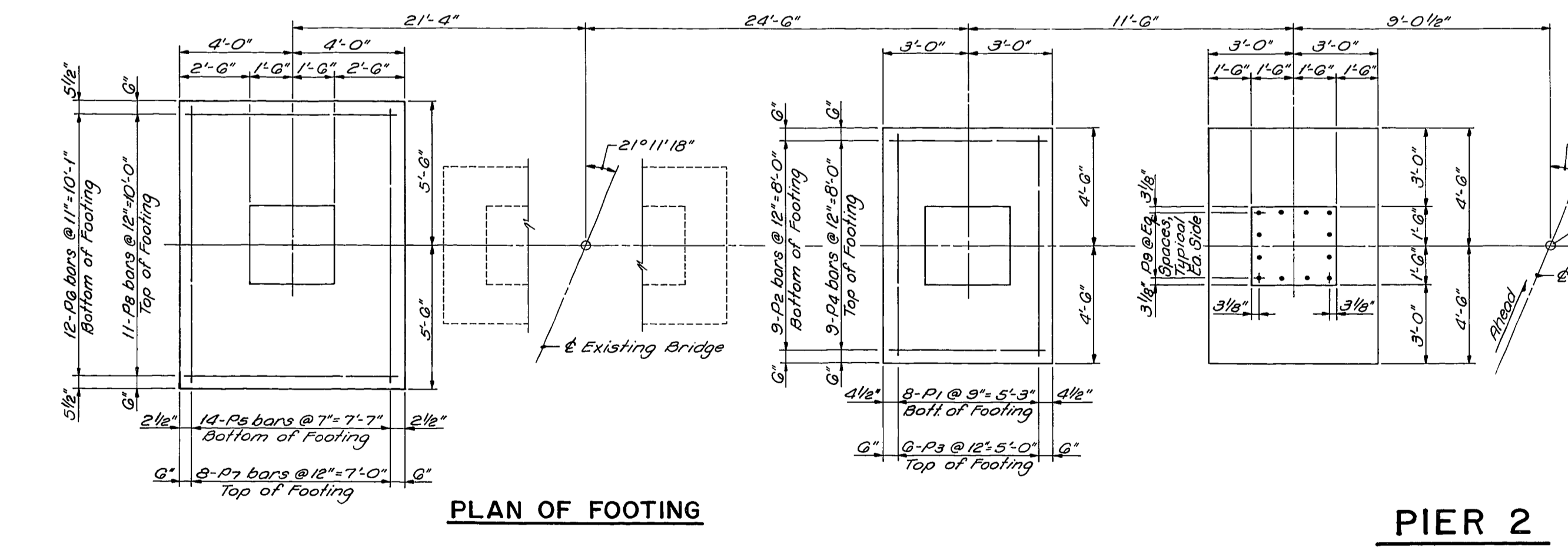
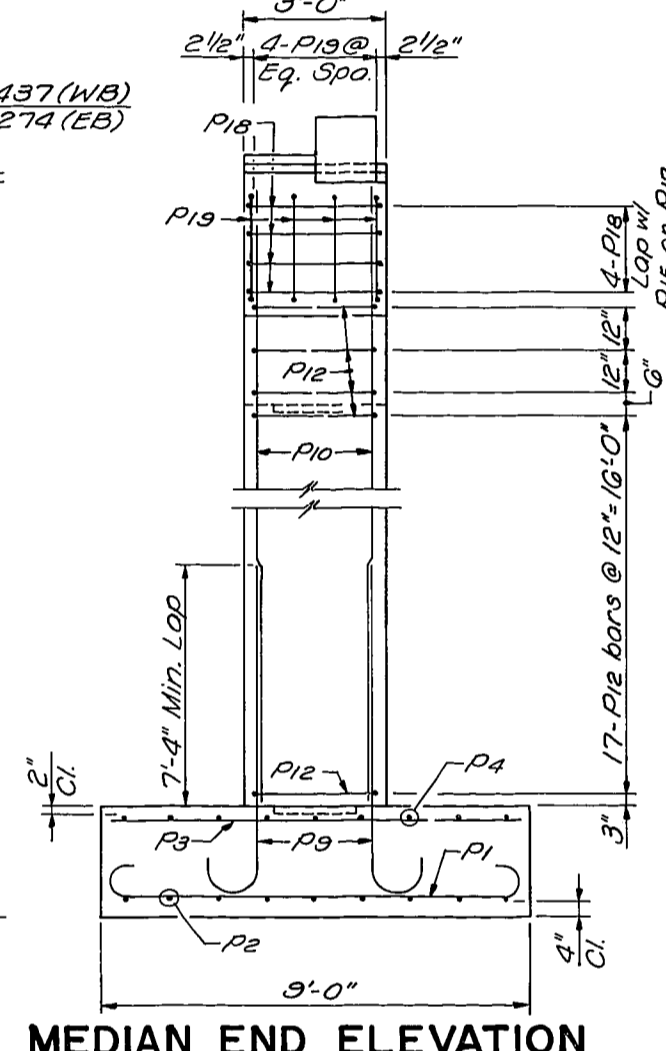
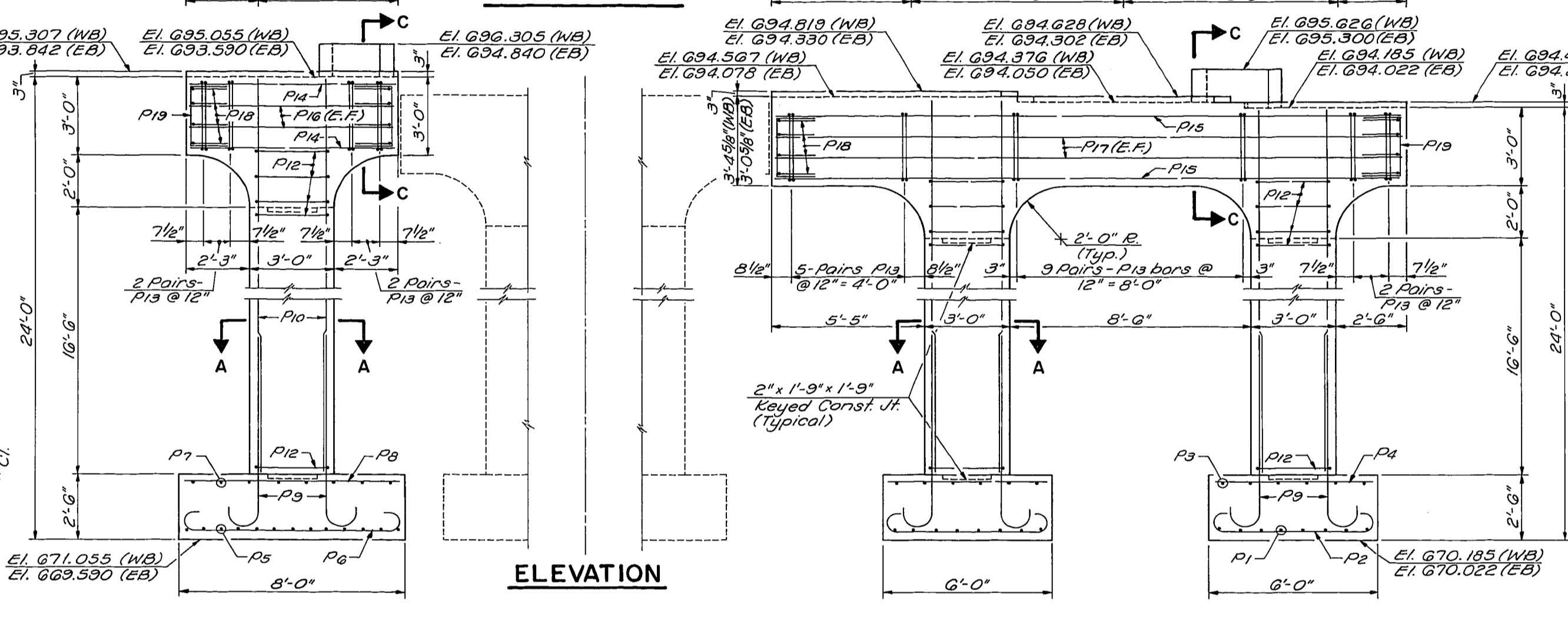
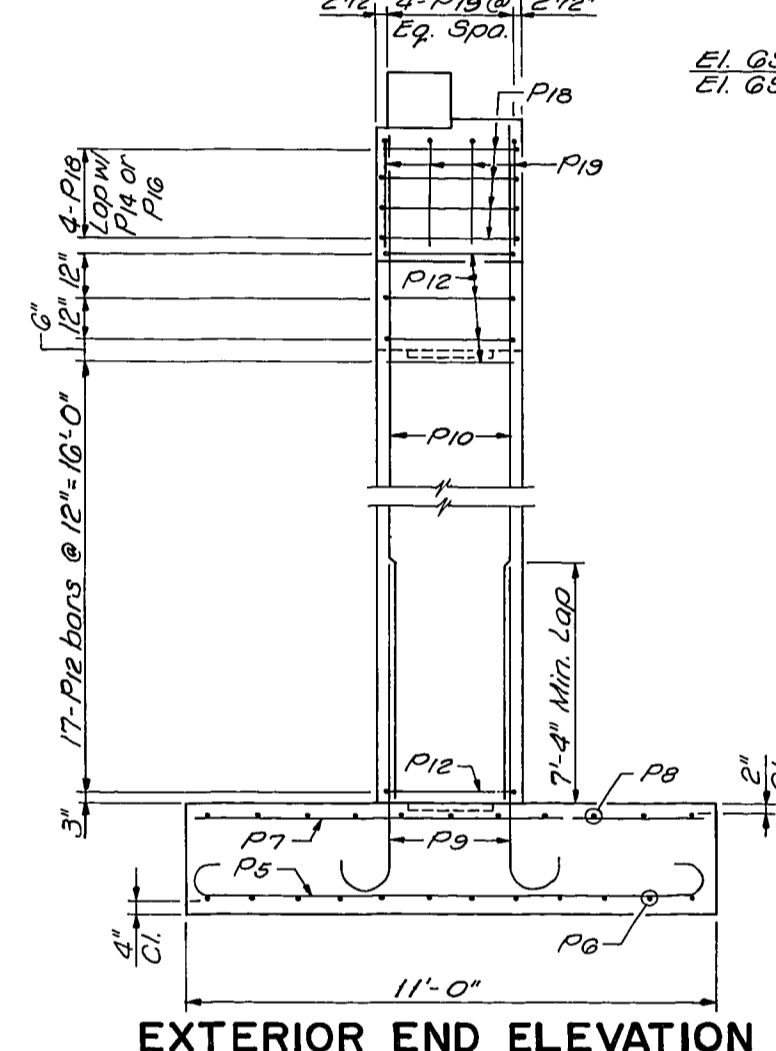
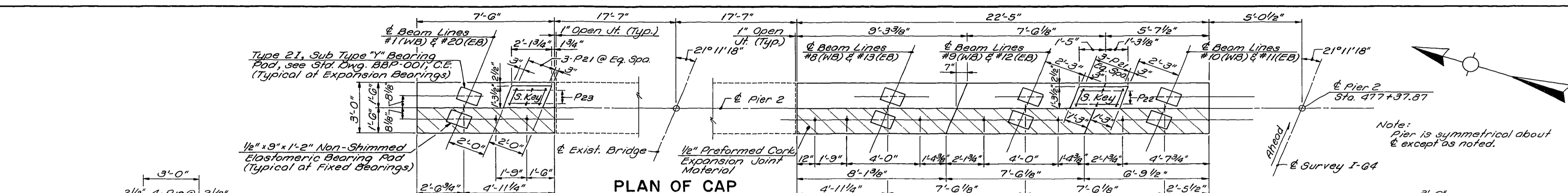
**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
FRANKFORT  
COUNTY OF  
**JEFFERSON**  
ROAD  
LOUISVILLE - LEXINGTON

STATION 477 + 11.37 P. E. PROJECT NO.  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.

DRAWING NO. 21440

UPDATE DATE  
LETTING DATE

DESIGNED BY	DATE	REVISION	DATE
SLM	5/26/06		
CHECKED BY	DATE	REVISION	DATE
ALF	5/26/06		
TRACED BY	DATE	REVISION	DATE



For Section A-A & C-C see Sheet #10  
E.F. denotes Each Face  
WB denotes Westbound Bridge  
EB denotes Eastbound Bridge

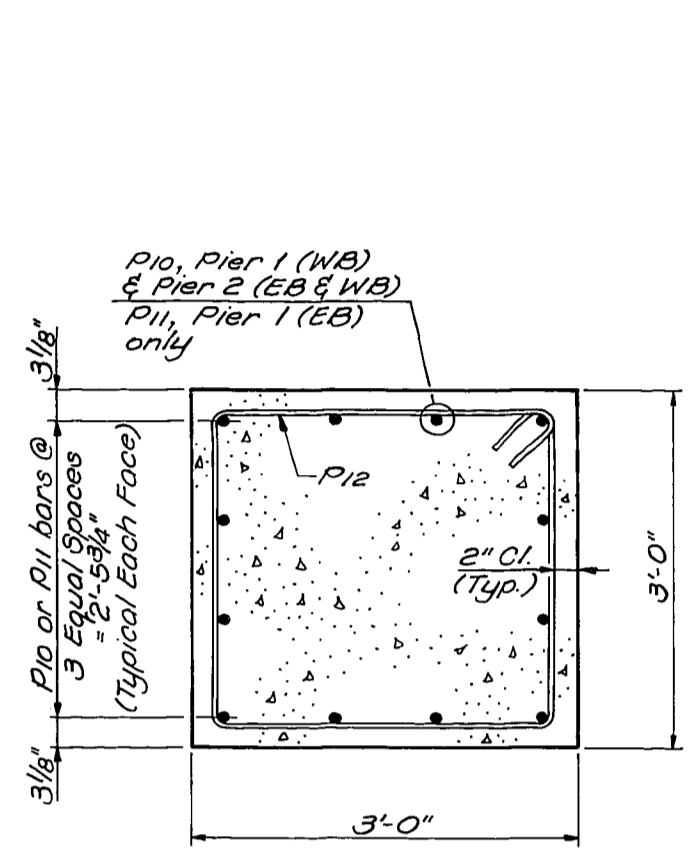
Widen I-64 Over Tucker Station Road SHEET 15

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
FRANKFORT  
COUNTY OF  
**JEFFERSON**  
LOUISVILLE - LEXINGTON  
ROAD  
STATION 477 + 11.37 P.E. PROJECT NO.  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
DRAWING NO. 21440

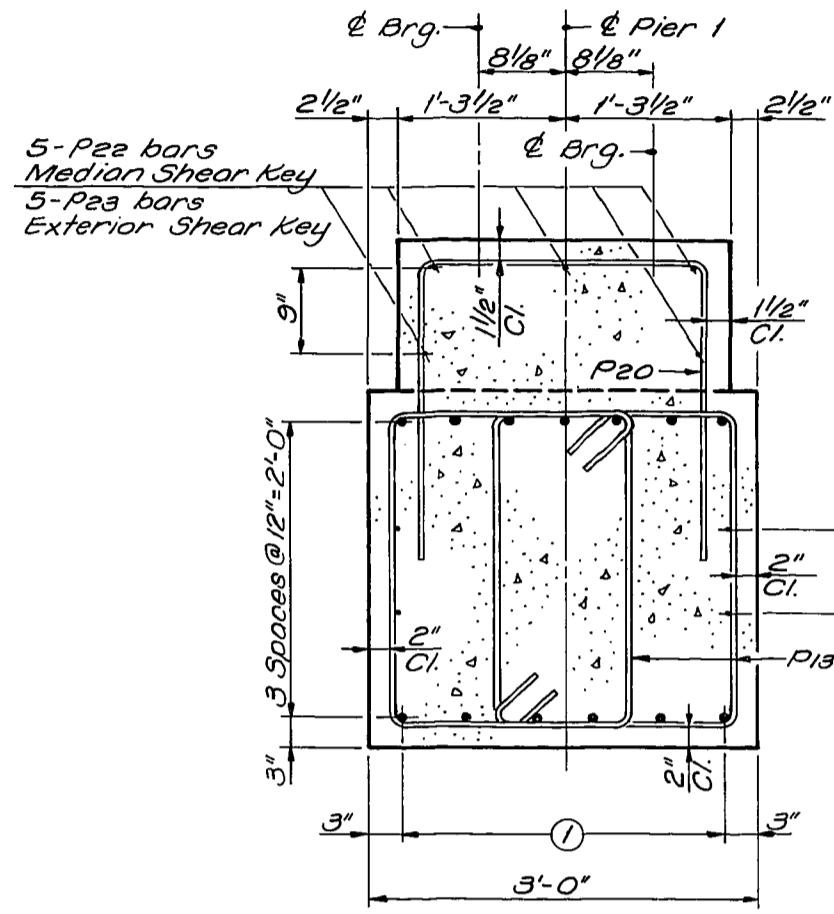
PIER 2

UPDATE DATE .....  
 LETTING DATE .....

DATE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DESIGNED BY: SLM CHECKED BY: SLM  
 REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_

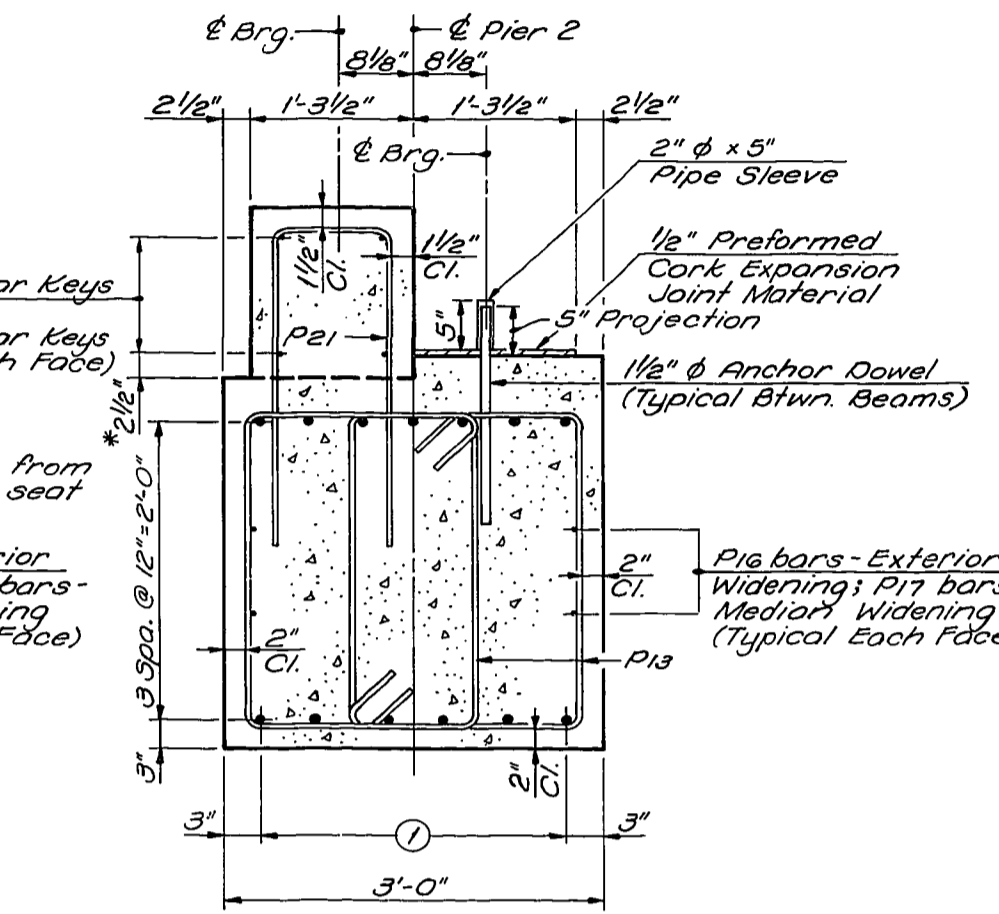


**SECTION A-A**



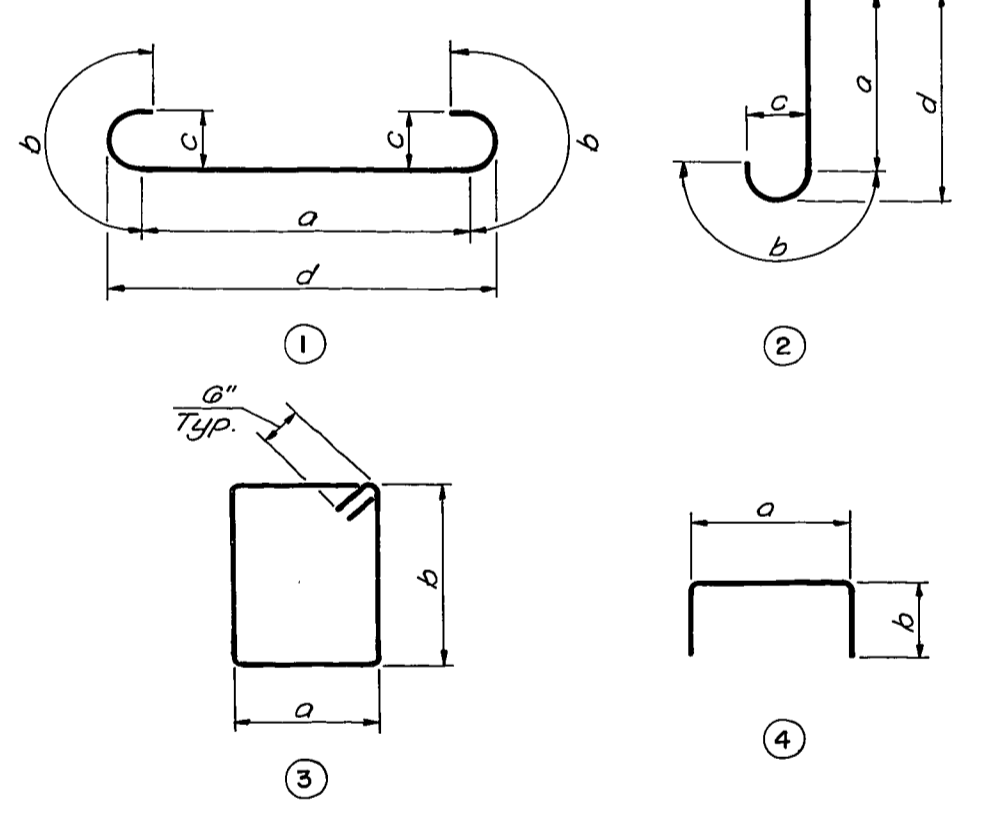
**SECTION B-B**  
PIER 1

- ① 7-#14 bars @ 5" = 2'-0" (Top of Pier Cap) *Exterior Widening*
- 6-#14 bars @ 6" = 2'-0" (Bottom of Pier Cap)
- 7-#15 bars @ 5" = 2'-0" (Top of Pier Cap) *Median Widening*
- 6-#14 bars @ 6" = 2'-0" (Bottom of Pier Cap)



**SECTION C-C**  
PIER 2

**ANCHOR DOWEL NOTE**  
 Anchor Dowels to be 1/2" φ x 2'-0" AASHTO M222 Steel Pins. Dowel Sleeves to be 2" φ x 5" Std. Wt. Pipe Sleeve closed at one end. Cost of Dowels and Sleeves to be incidental to Class "A" Concrete. Secure Sleeves to prevent floating while placing concrete. Sleeves are to rest on joint material.



BILL OF REINFORCEMENT															
MARK	TYPE	SIZE	NUMBER		LENGTH	LOCATION	a				b				
			WB	EB			Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	
P1	①	#6	16	16	10	2	Footing	8	2	1	0	0	6	8	8
P2	①	#5	18	18	6	11		5	3	0	10	0	5	5	8
P3	Str.	#5	12	12	8	8									
P4	Str.	#5	18	18	5	8									
P5	①	#7	14	14	12	5		10	1	1	2	0	7	10	8
P6	①	#6	12	12	9	2		7	2	1	0	0	6	7	8
P7	Str.	#5	8	8	10	8									
P8	Str.	#5	11	11	7	8									
P9	②	#10	36	36	10	10	Footing	9	0	1	10	1	1	9	6 1/2
P10	Str.	#10	36	36	21	3	Column								
P11	Str.	#10	36	36	20	3	Column								
P12	③	#4	60	60	11	5	Column	2	8	2	8				
P13	③	#4	40	40	9	9	Cap	1	10	2	8				
P14	Str.	#5	13	13	7	2									
P15	Str.	#6	13	13	22	1									
P16	Str.	#4	4	4	7	2									
P17	Str.	#4	4	4	22	1									
P18	④	#5	16	16	8	7	Cap	2	8	3	0				
P19	④	#5	16	16	8	6	Cap	2	7	3	0				
P20	④	#5	6	6	7	9	Shear Keys	2	6	2	8				
P21	(OMIT)														
P22	Str.	#5	5	5	2	4	Med. Shr. Key								
P23	Str.	#5	5	5	1	10	Ext. Shr. Key								

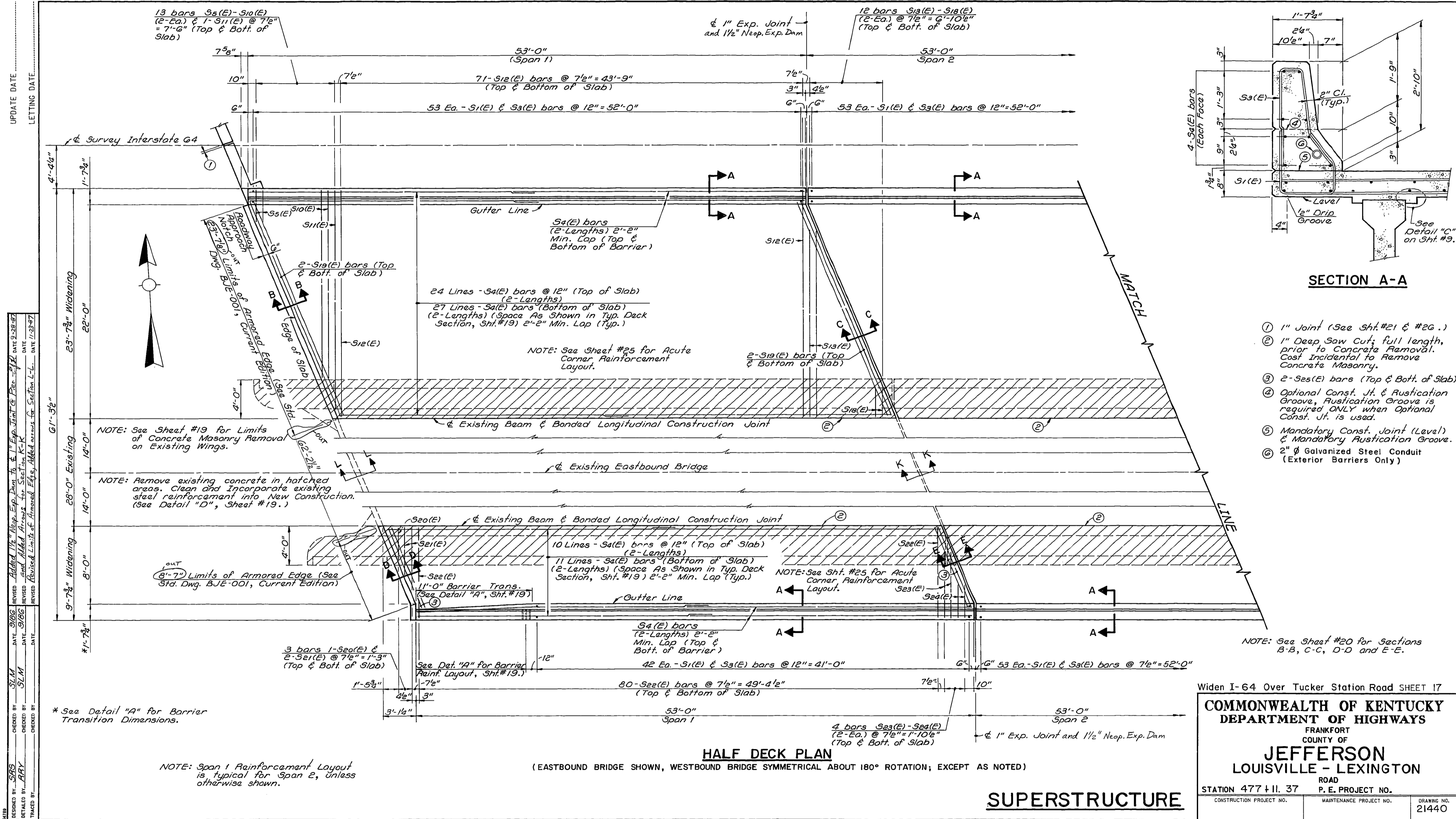
WB - denotes Westbound Pier  
 EB - denotes Eastbound Pier

ESTIMATE OF QUANTITIES				
PIER	ITEM	UNIT	QUANTITY	
			WB	EB
PIER 1	CLASS "A" CONCRETE	CU YD	48.3	46.9
	STEEL REINFORCEMENT	LBS	7,936	7,759
PIER 2	CLASS "A" CONCRETE	CU YD	48.4	48.0
	STEEL REINFORCEMENT	LBS	7,923	7,923

Widen I-64 Over Tucker Station Road SHEET 16

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 +11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
 DRAWING NO. 21440

**MISC. PIER DETAILS**



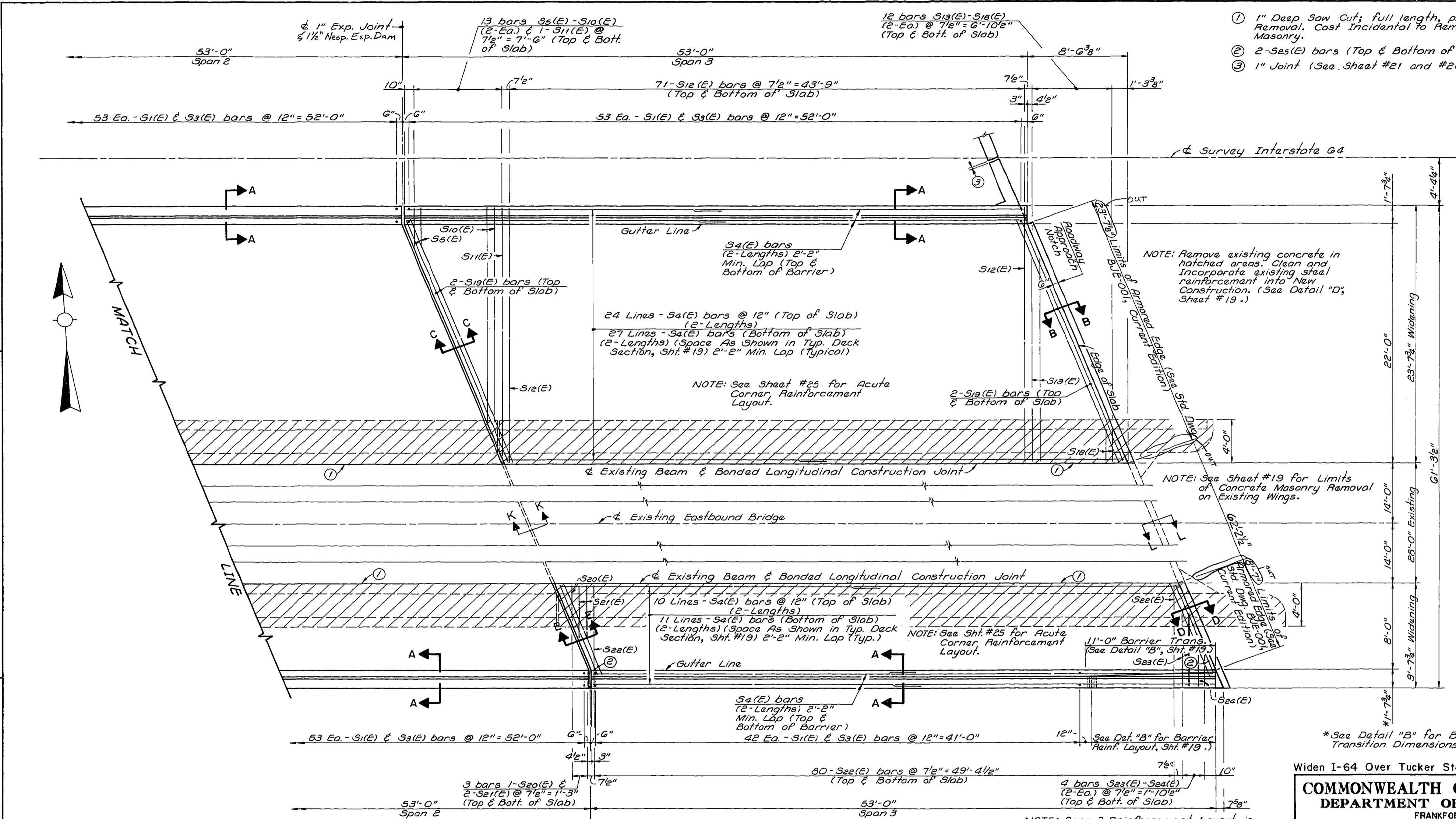
DESIGNED BY	DATE	REVISION	DATE
BY	11/11/83	1	11/11/83
CHECKED BY	DATE	2	11/11/83
BY	11/11/83	3	11/11/83
APPROVED BY	DATE	4	11/11/83
BY	11/11/83	5	11/11/83

Widen I-64 Over Tucker Station Road SHEET 17

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477+11.37 P.E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440

UPDATE DATE  
LETTING DATE

DESIGNED BY: S.B.S.  
CHECKED BY: RAY  
DATE: 3/24/66  
REVISED BY: S.M.  
DATE: 3/24/66  
REVISION: Added 1/2" Exp. Joint & 1" Exp. Joint and Added 13 bars (2-Ea.) & 1-S11(E) @ 7 1/2" = 7'-6" (Top & Bottom of Slab)  
REVISION: Revised Limits of Proposed Edge, Added masonry Section L-1  
DATE: 1/28/67



- ① 1" Deep Saw Cut; full length, prior to Concrete Removal. Cost Incidental to Remove Concrete Masonry.
- ② 2-Ses(E) bars (Top & Bottom of Slab)
- ③ 1" Joint (See Sheet #21 and #26.)

**HALF DECK PLAN**

(EASTBOUND BRIDGE SHOWN, WESTBOUND BRIDGE SYMMETRICAL ABOUT 180° ROTATION; EXCEPT AS NOTED)

**SUPERSTRUCTURE**

Widen I-64 Over Tucker Station Road SHEET 18

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 +11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
 DRAWING NO. 21440

NOTE: Span 3 Reinforcement Layout is typical for Span 2, unless otherwise shown.

NOTE: See Sheet #17 for Section A-A and Sheet #20 for Sections B-B, C-C, D-D and E-E.

NOTE: Remove existing concrete in hatched areas. Clean and incorporate existing steel reinforcement into New Construction. (See Detail "D", Sheet #19.)

NOTE: See Sheet #19 for Limits of Concrete Masonry Removal on Existing Wings.

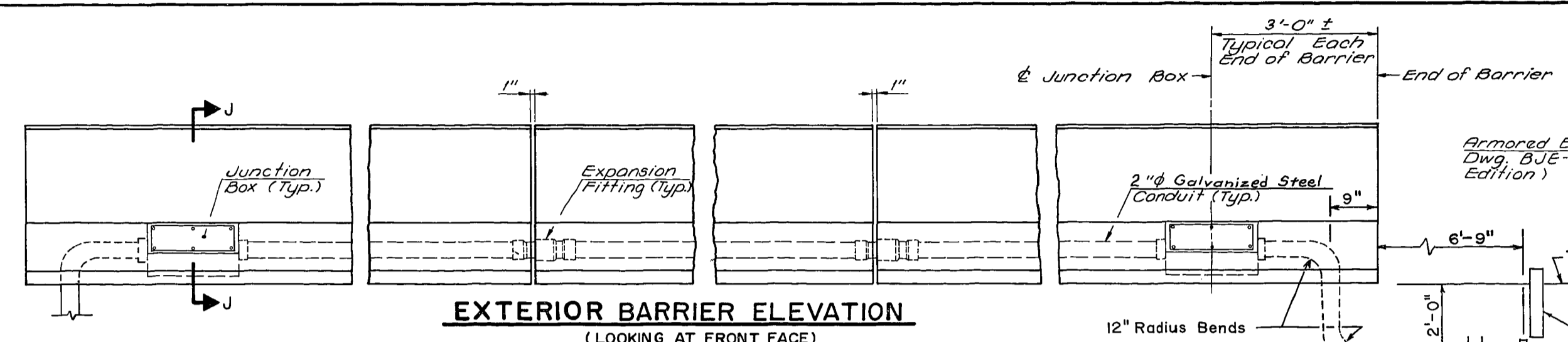
NOTE: See Sht. #25 for Acute Corner Reinforcement Layout.

NOTE: See Def. "B" for Barrier Rainf. Layout, Sht. #19.

\*See Detail "B" for Barrier Transition Dimensions.



UPDATE DATE: \_\_\_\_\_  
 LETTING DATE: \_\_\_\_\_



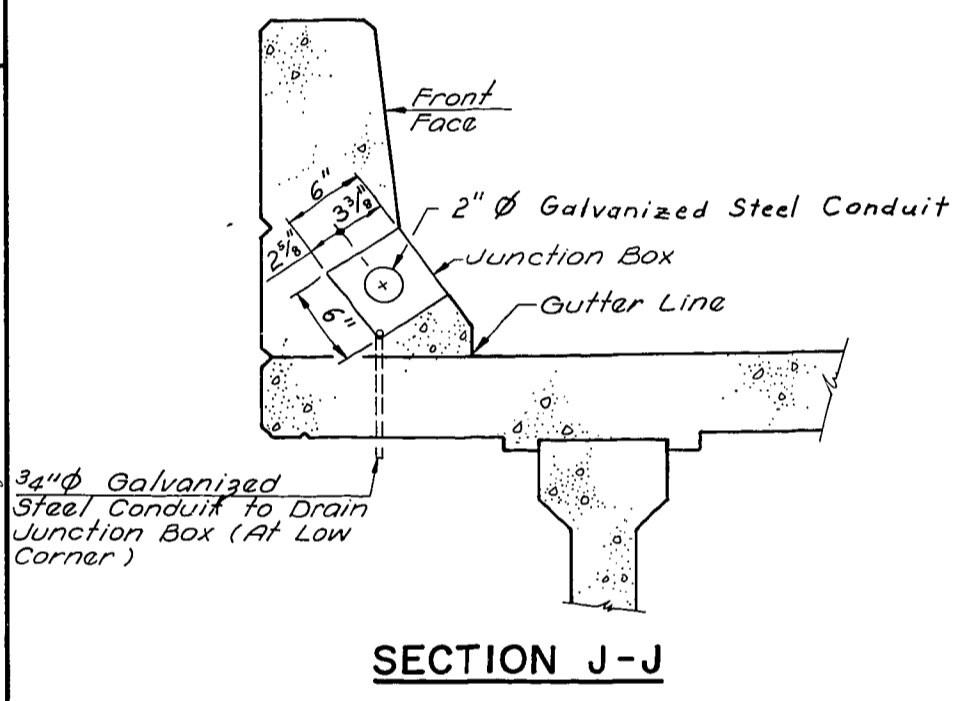
NOTES: All Conduit to be Galvanized and may be rigid or intermediate metal conduit. Junction Boxes and Conduit are to be placed so as to interfere with a minimum amount of reinforcement. Bend reinforcement where necessary.

\* Junction Box (NEMA 4); manufacturer and number may be the following, or approved equal.

Manufacturer	Description
O-Z/Gedney Co.	Type YU 16" x 6" x 6"
Spring City Electric Co.	Type IR 16" x 6" x 6"
Hope Electric Products Co.	Type H6200 16" x 6" x 6"
	Type YR 18" x 6" x 6"
	Type ER 18" x 6" x 6"
	Type H700 18" x 6" x 6"

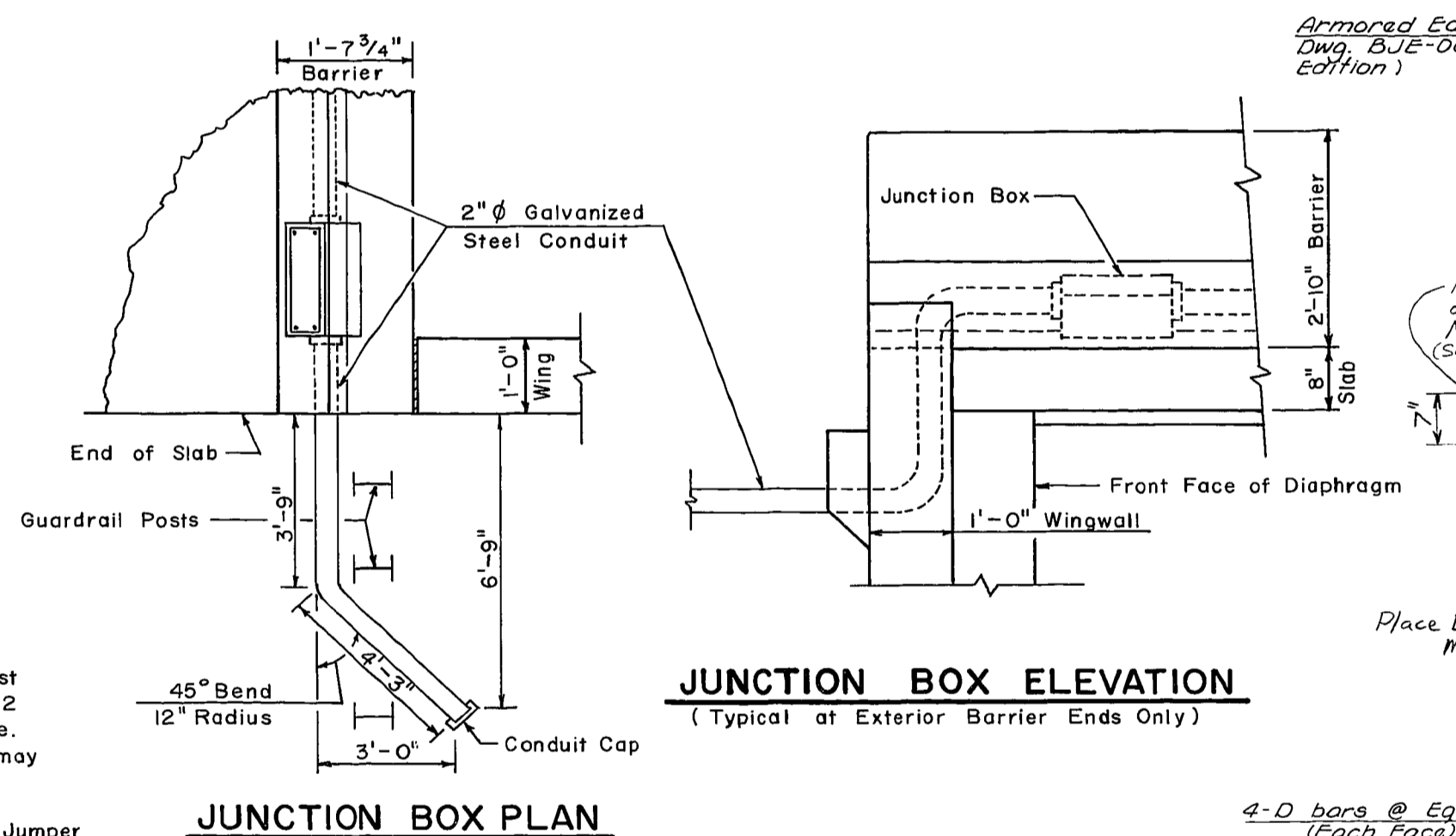
BILL OF INCIDENTAL MATERIALS	
2" $\phi$ Galvanized Steel Conduit	355 Lin. Ft.
Concrete Markers	4 Each
Junction Boxes	4 Each
2" $\phi$ Galvanized Conduit Caps	4 Each
Expansion Fittings	4 Each
3/4" $\phi$ Galvanized Steel Conduit	4 Lin. Ft.

These materials are included in the lump sum bid for Electrical Conduit.

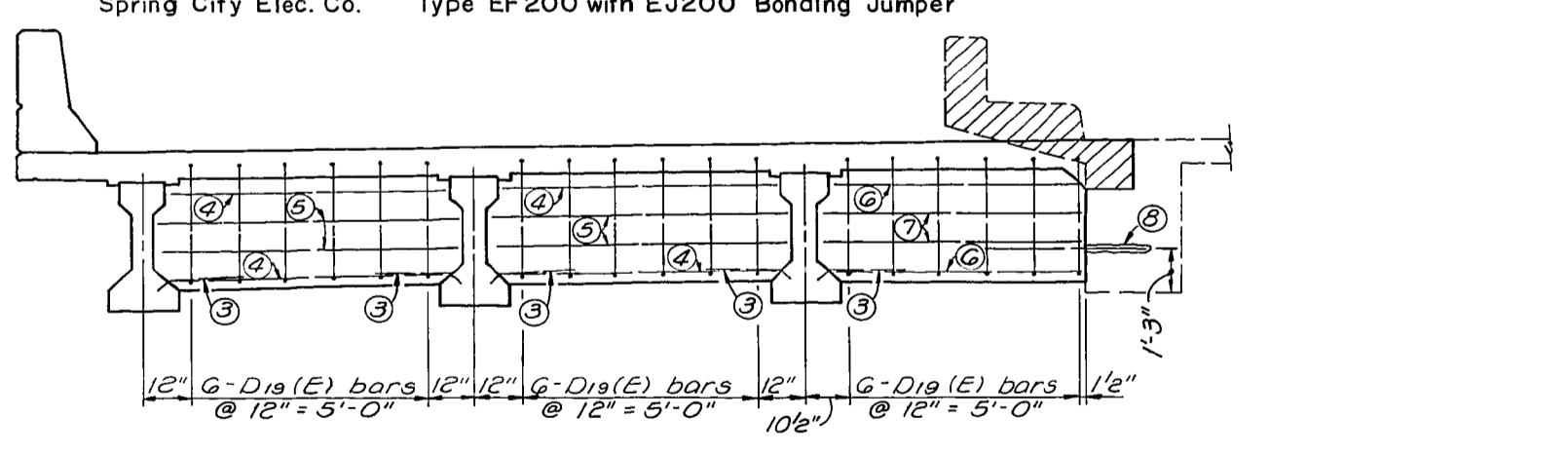


NOTES CONTINUED:  
 Concrete Marker at terminal points of conduit is to consist of a 4" x 4" x 36" reinforced concrete post with 4 size No. 2 deformed reinforcing steel rods. Marker to be 2" above grade. Expansion Fitting for 2" conduit, manufacturer and number may be any of the following, or approved equal.

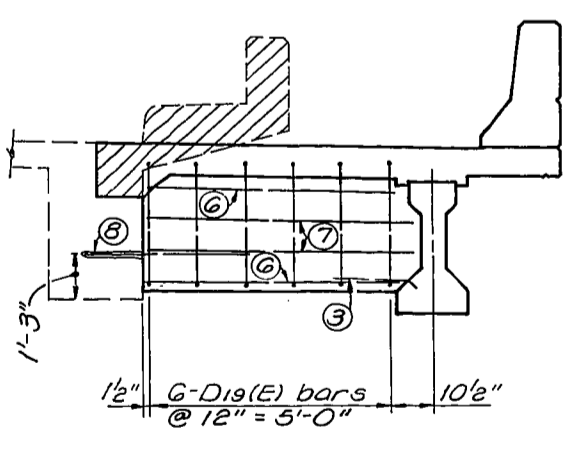
Manufacturer	Number
Crouse-Hinds Co.	Type XJ641 with GC100 Bonding Jumper
O-Z/Gedney Co.	Type EX200 with BU1520-24 Bonding Jumper
Spring City Elec. Co.	Type EF200 with EV200 Bonding Jumper



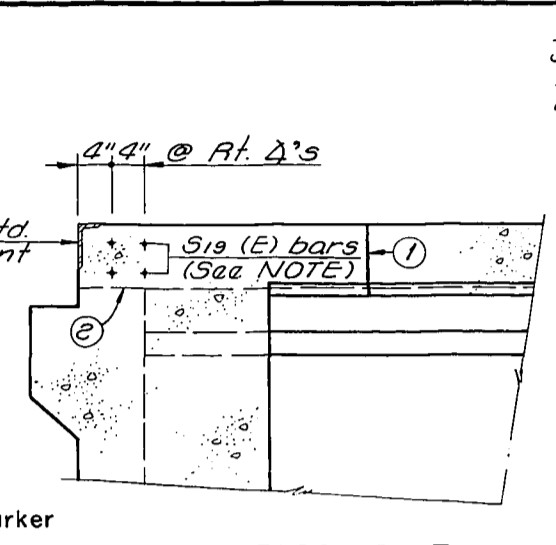
JUNCTION BOX PLAN



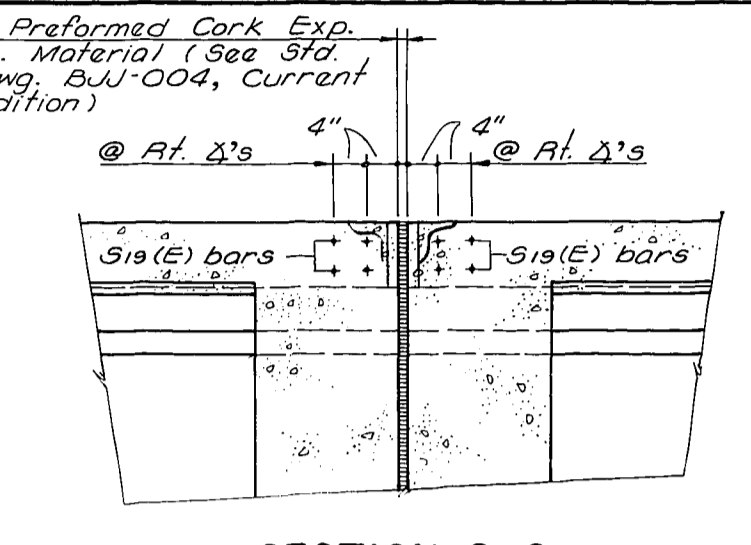
INTERMEDIATE DIAPHRAGM ELEVATION



NOTE: Remove existing concrete in hatched areas. See Detail "D", Sheet #19.



SECTION B-B

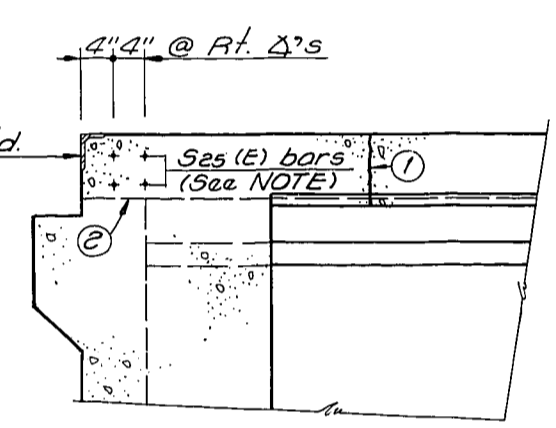


SECTION C-C

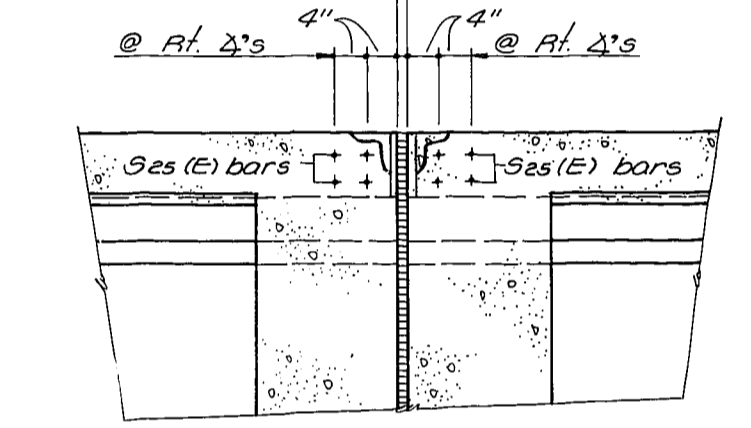
1" Preformed Cork Exp. Jt. Material (See Std. Dwg. BUJ-004, Current Edition)

Sections C-C and E-E Note: Install 1/2" Exp. Joint and Armored Edges. (See Sl. 28). Also, see Joint Detail, Sheet 23.

1" Preformed Cork Exp. Jt. Material (See Std. Dwg. BUJ-004, Current Edition)



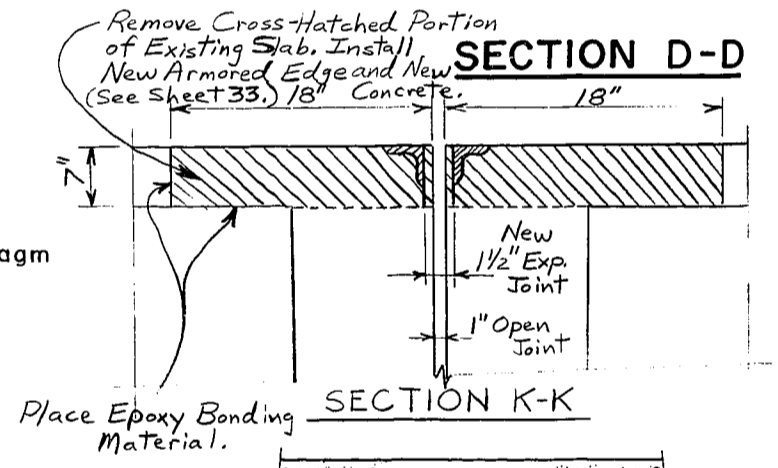
SECTION D-D



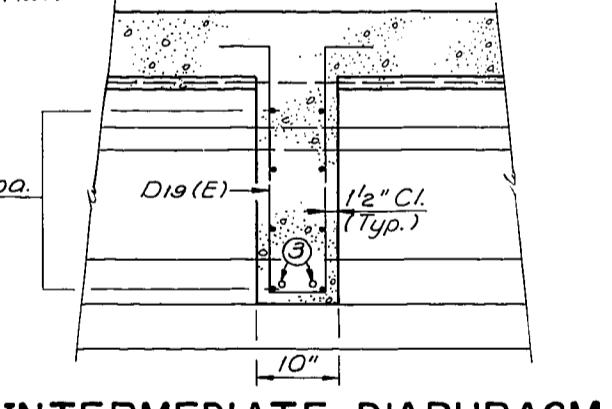
SECTION E-E

NOTE: Top Bars may be shifted slightly to miss Armored Edge straps.

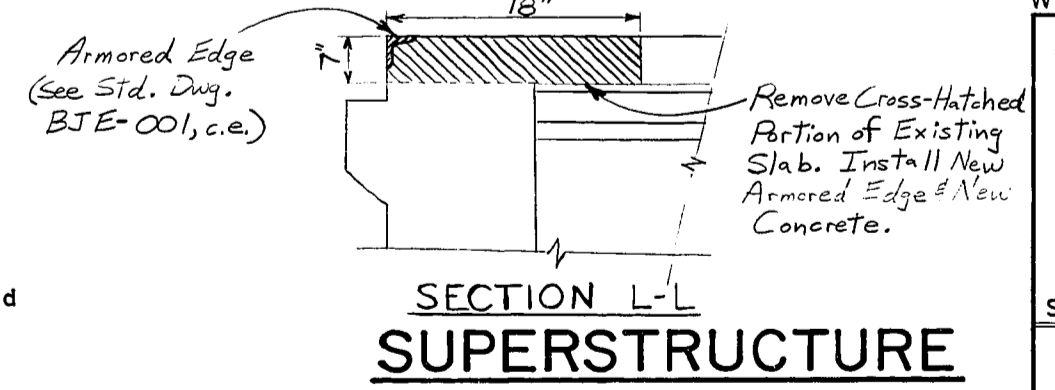
- ① Optional Roughened Bonded Construction Joint
- ② Optional Construction Joint
- ③ 3/4"  $\phi$  Threaded Anchor Rod (Field Bend)
- ④ D20 bar (Each Face)
- ⑤ D21 bar (Each Face)
- ⑥ D22 bar (Each Face)
- ⑦ D23 bar (Each Face)
- ⑧ 2-Dg dowels (Space to Lap with horizontal reinforcement in Proposed Diaphragm.) See Detail "E", Sheet #25.



SECTION K-K



INTERMEDIATE DIAPHRAGM



SECTION L-L SUPERSTRUCTURE

DESIGNED BY: SAS/AMM  
 CHECKED BY: RAY  
 DATE: 5/86  
 DATE: 5/86  
 REVISIONS: 1. Added Section K-K and E-E Note.  
 2. Added Section C-C and E-E Note.  
 3. Added Section L-L.  
 4. Added Section J-J.

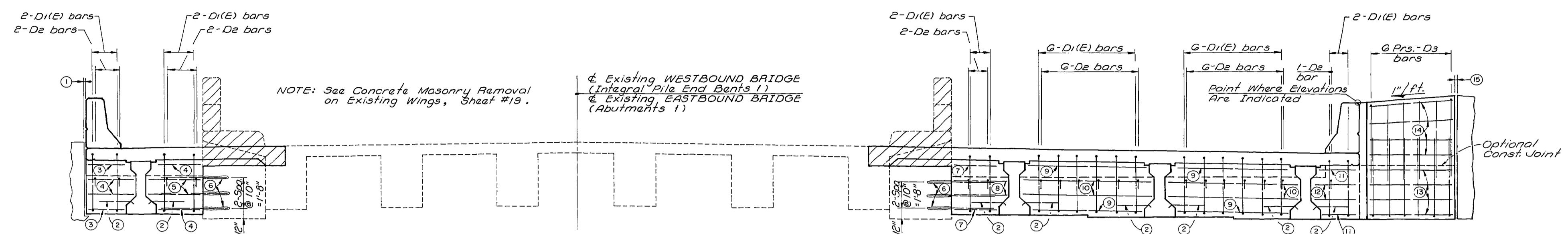
Widen I-64 Over Tucker Station Road SHEET 20

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD

STATION 477 +11.37 P.E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
 DRAWING NO. 21440

UPDATE DATE: \_\_\_\_\_  
 LETTING DATE: \_\_\_\_\_

DESIGNED BY: SRS  
 CHECKED BY: ARY  
 DATE: 5/21/56  
 DATE: 5/21/56  
 REVISIONS: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

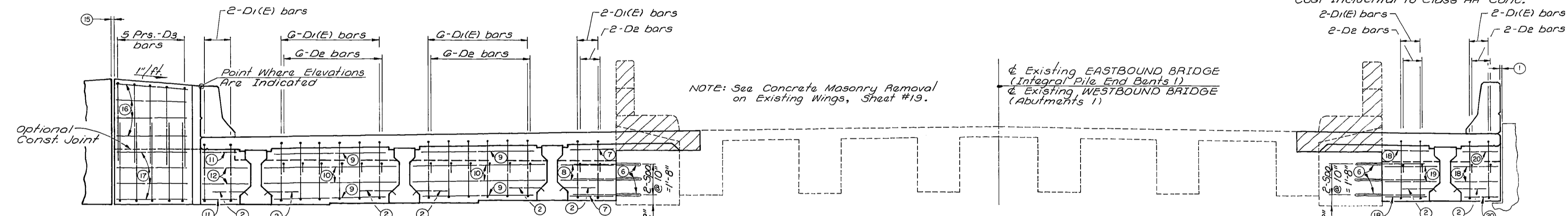


NOTE: See Part Section A, Sheet #22.

**HALF INTEGRAL PILE END BENTS I DIAPHRAGM ELEVATION**  
 (INTEGRAL PILE END BENTS I SHOWN; ABUTMENTS I SIMILAR)

NOTE: See Part Section B, Sheet #22.

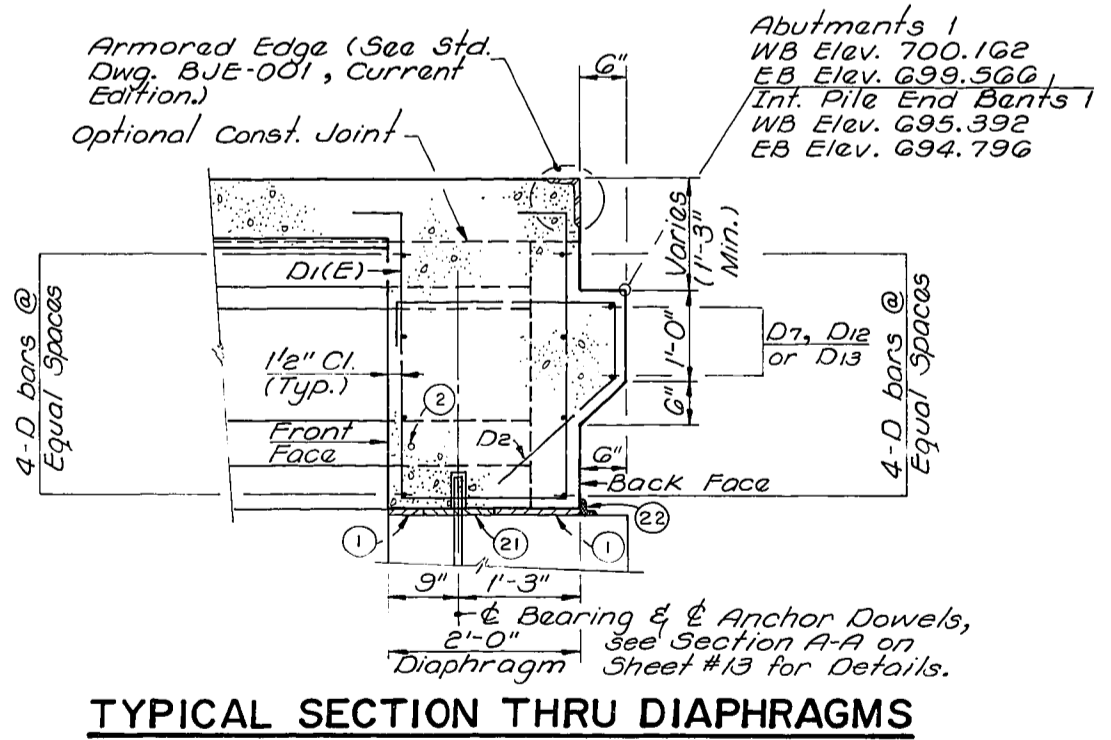
- |  |   |                                  |  |
|--|---|----------------------------------|--|
| ① 1/2" Preformed Cork Expansion Joint Material, Cost Incidental to Class "A" Concrete. | ④ D5 bar (F.F.) & D1 bar (B.F.)   | ⑦ D5 bar (F.F.) & D10 bar (B.F.) | ⑩ D5 bar (F.F.) & D10 bar (B.F.)   |
| ② 3/4" Threaded Anchor Rod (Field Band)  | ⑤ D6 bar (F.F.) & D1 bar (B.F.)   | ⑧ D6 bar (F.F.) & D10 bar (B.F.) | ⑬ D11 bar (F.F.) & D10 bar (B.F.)  |
| ③ D4 bar (F.F.) & D1 bar (B.F.)  | ⑥ D8 dowels (Space to Lap with horizontal reinforcement in Proposed Diaphragm) See Detail "E", Sheet #25. | ⑨ D7 bar (F.F.) & D10 bar (B.F.) | ⑭ D11 bar (E.F.)   |
|  |   | ⑪ D4 bar (F.F.) & D10 bar (B.F.) | ⑮ 1" Preformed Cork Expansion Joint Material, with Joint Waterproofing on earth side, Cost Incidental to Class "A" Conc. |



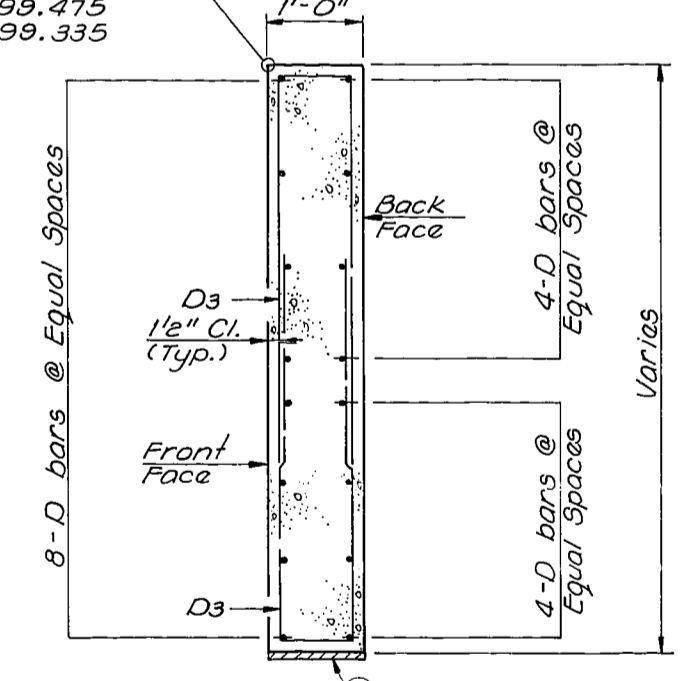
NOTE: See Part Section C, Sheet #22.

**HALF INTEGRAL PILE END BENTS I DIAPHRAGM ELEVATION**  
 (INTEGRAL PILE END BENTS I SHOWN; ABUTMENTS I SIMILAR)

NOTE: See Part Section D, Sheet #22.



**TYPICAL SECTION THRU DIAPHRAGMS**



**TYPICAL SECTION THRU DIAPHRAGMS BETWEEN BRIDGES**

- |  |
|--|
| ⑯ D13 bar (E.F.)   |
| ⑰ D13 bar (F.F.) & D10 bar (B.F.)  |
| ⑱ D5 bar (F.F.) & D13 bar (B.F.)   |
| ⑲ D6 bar (F.F.) & D13 bar (B.F.)   |
| ⑳ D4 bar (F.F.) & D13 bar (B.F.)   |
| ㉑ 1/2" Non-Shimmed Elastomeric Bearing Pad (See Sheet #10 & #13 for Detail.)   |
| ㉒ Joint Waterproofing required for the entire length of the horizontal joint. Cost incidental to Class "A" Concrete. |

WB - Denotes Westbound  
 EB - Denotes Eastbound  
 E.F. - Denotes Each Face  
 F.F. - Denotes Front Face  
 B.F. - Denotes Back Face

NOTE: Work this sheet with Sheet #22 & #26.

**SUPERSTRUCTURE**

Widen I-64 Over Tucker Station Road SHEET 21

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD

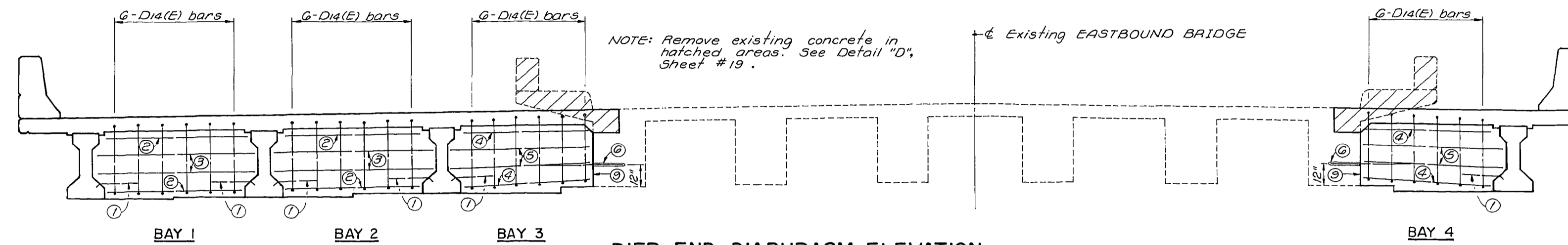
STATION 477 + 11.37 P.E. PROJECT NO. \_\_\_\_\_

CONSTRUCTION PROJECT NO. \_\_\_\_\_ MAINTENANCE PROJECT NO. \_\_\_\_\_

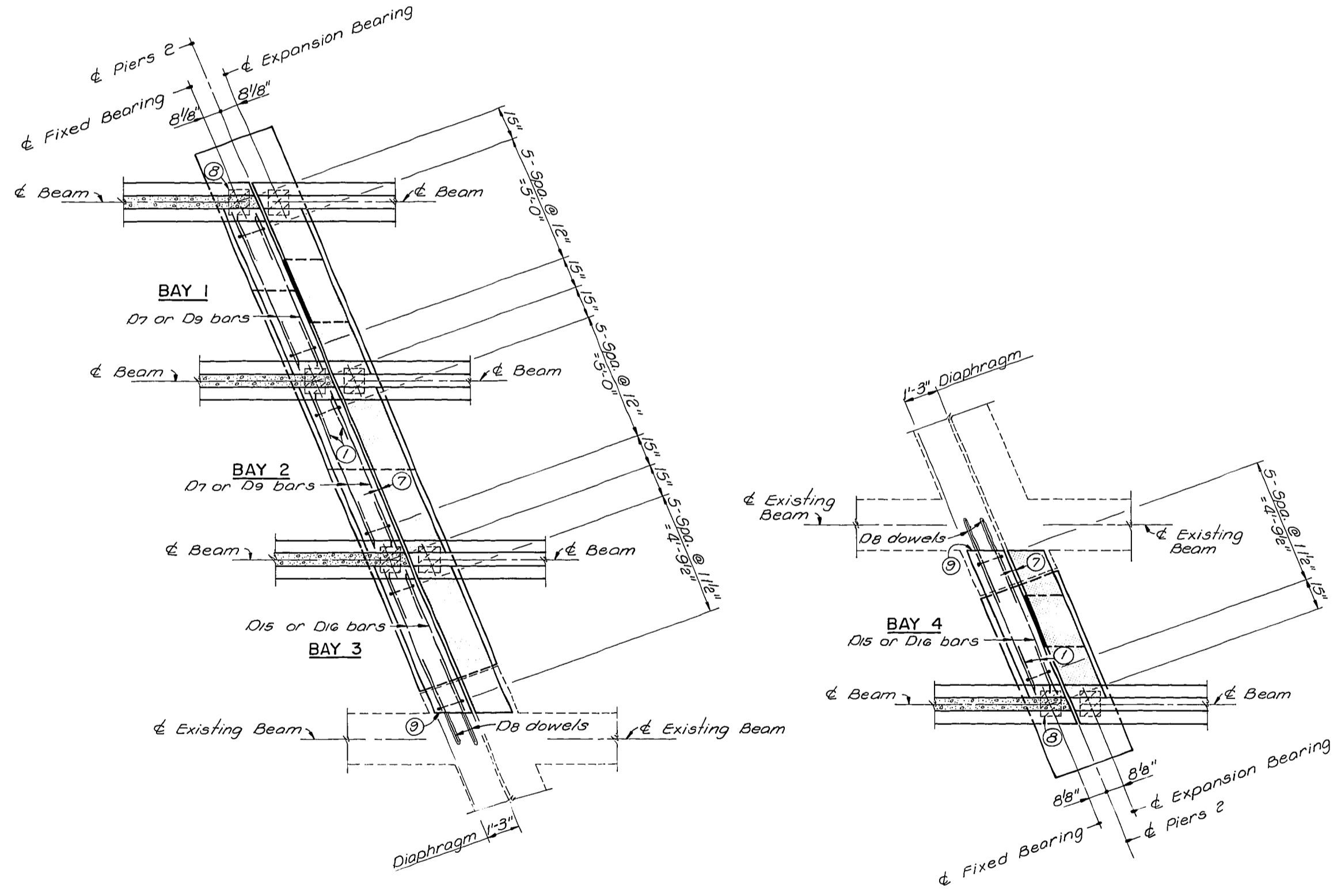
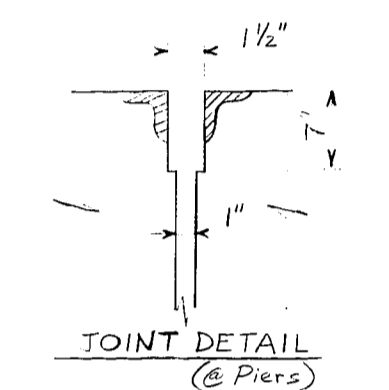
21440



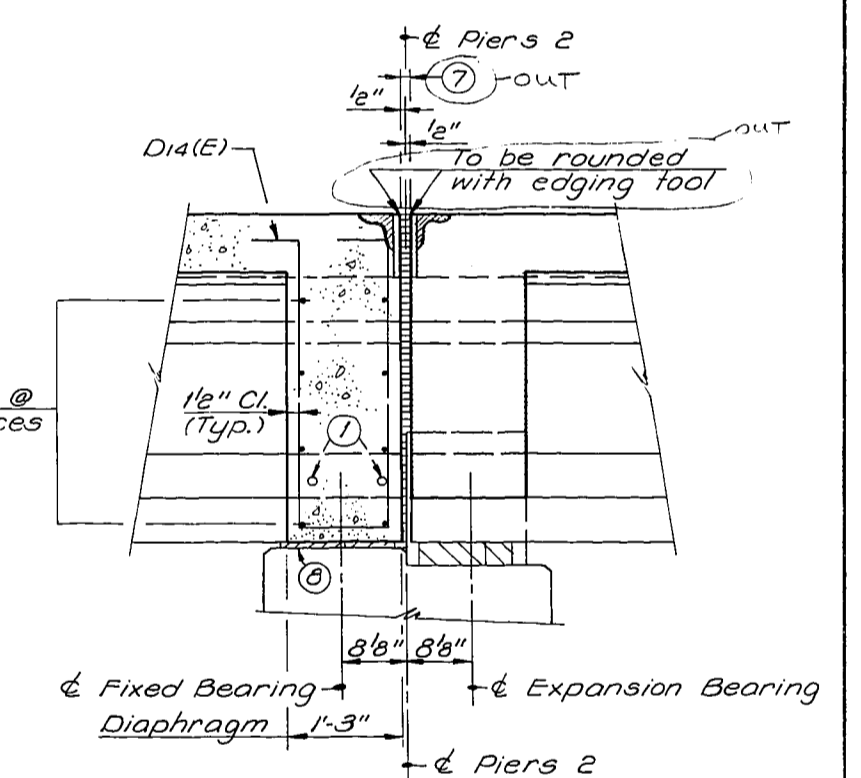
UPDATE DATE  
 SETTING DATE



**PIER END DIAPHRAGM ELEVATION**  
 (PIERS 2, SPAN 2; LOOKING AHEAD STATION)



**PART SECTION AT PIER**  
 (PIERS 2, SPAN 2)



**PIER DIAPHRAGM**  
 (PIERS 2, SPAN 2)

- ① 3/4" Threaded Anchor Rod (Field Bend)
- ② D7 bar (Each Face)
- ③ D9 bar (Each Face)
- ④ D15 bar (Each Face)
- ⑤ D16 bar (Each Face)
- ⑥ 2-D8 dowels (Space to Lap with horizontal reinforcement in Proposed Diaphragm) See Detail "E", Sheet #25.
- ⑦ 1" Preformed Cork Expansion Joint Material (See Standard Drawing BUJ-004, Current Edition)
- ⑧ 8" Non-Shimmed Elastomeric Bearing Pad (See Sheet #14 for Detail.)
- Indicates diaphragm at Piers 2, Span 3 (See Sheet #24 for Details.)
- ⑨ Bond new concrete to existing concrete. Cost incidental to Class "AA" Concrete.

DESIGNED BY: SLM DATE: 9/86  
 CHECKED BY: SLM DATE: 9/86  
 TRACED BY: SLM DATE: 9/86  
 REVISIONS: 1. DATE: 9/86 BY: SLM  
 2. DATE: 9/86 BY: SLM

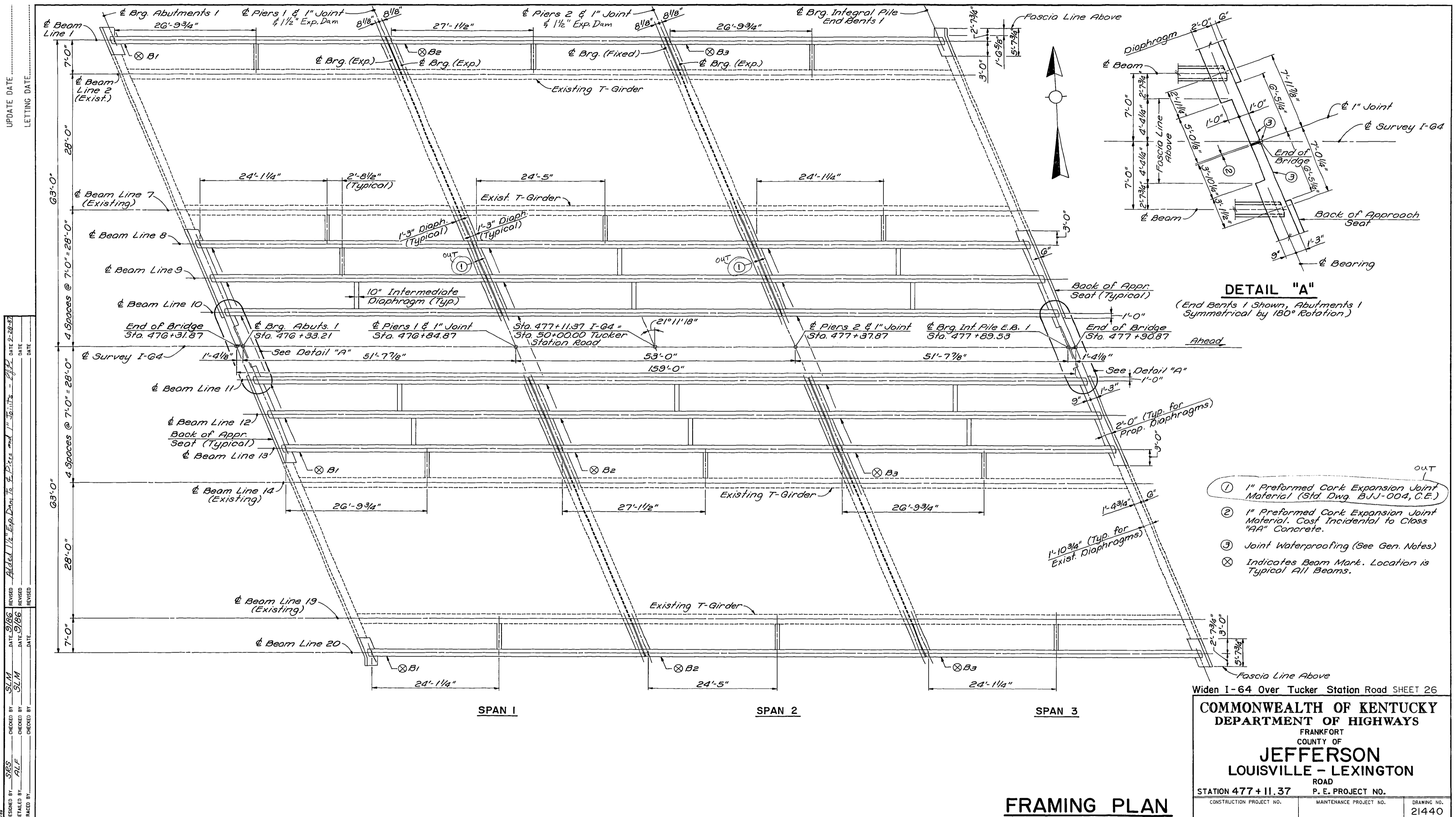
**SUPERSTRUCTURE**

Widen I-64 Over Tucker Station Road SHEET 23

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 + 11.37 P.E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440







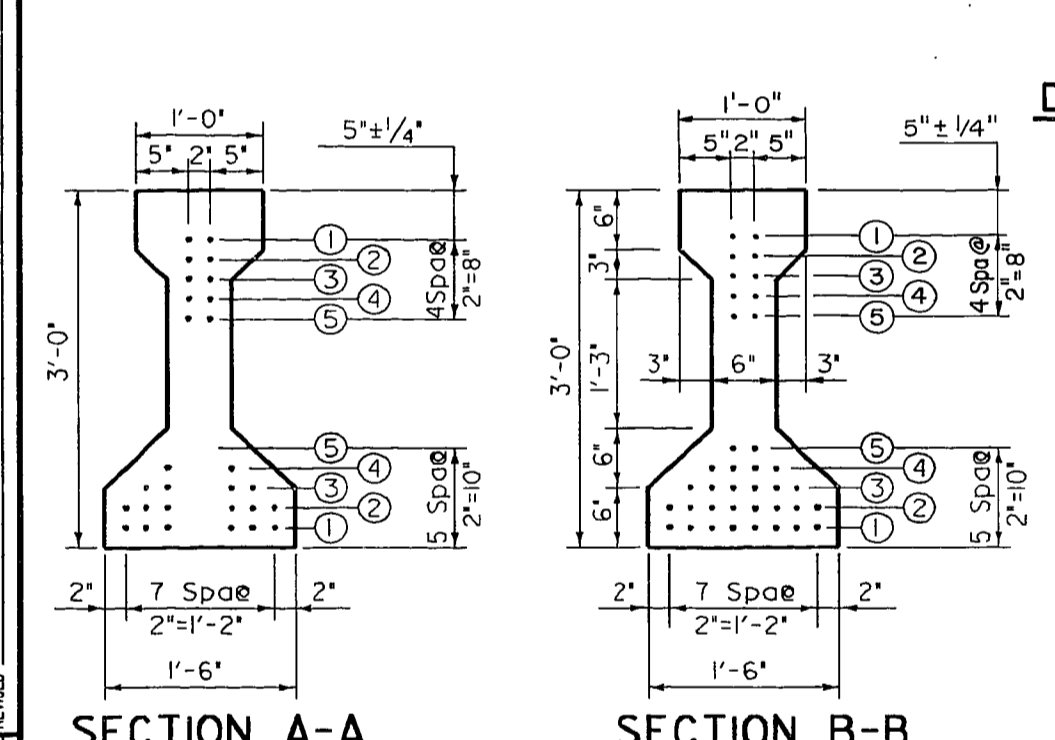
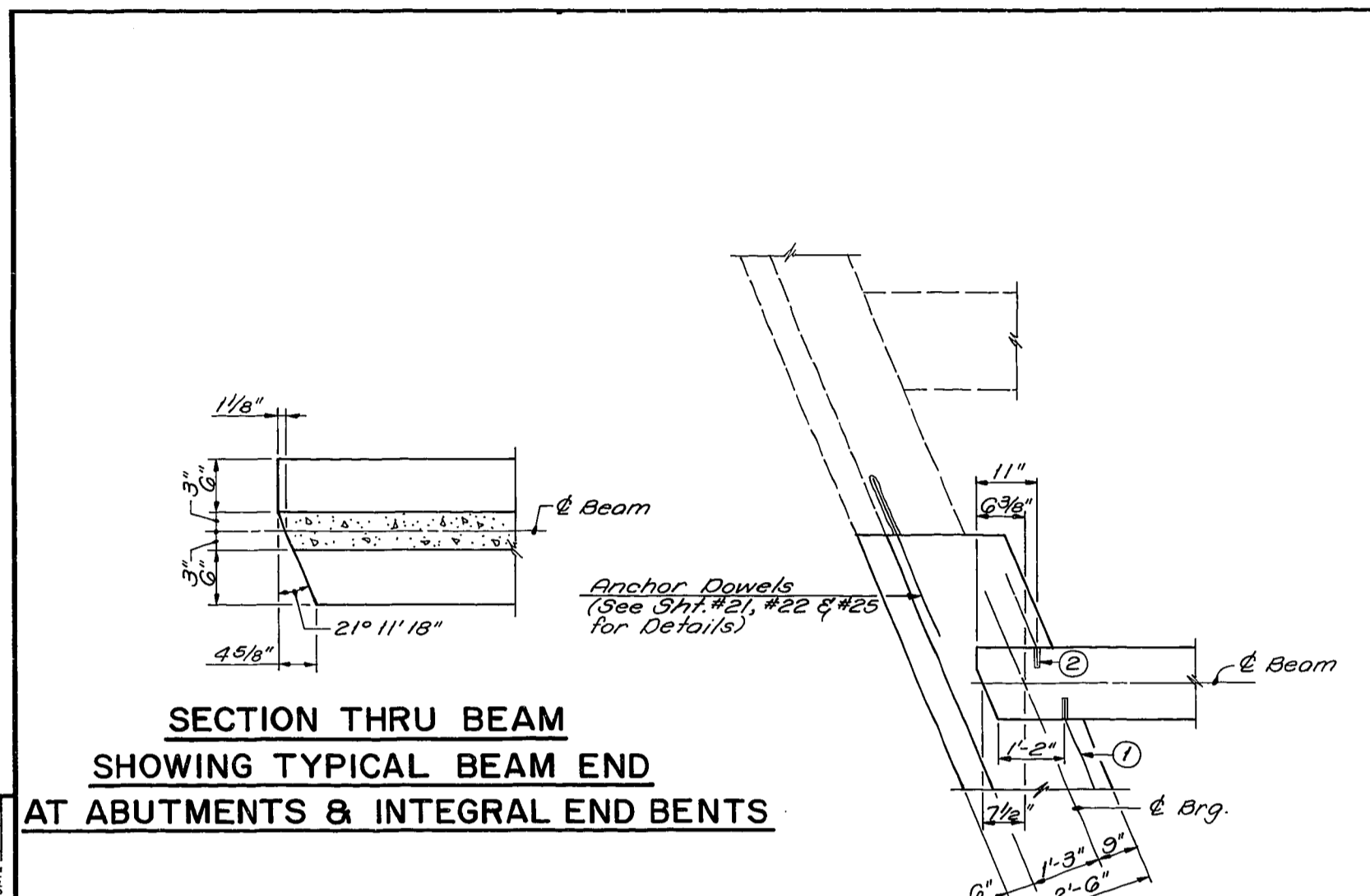
DESIGNED BY: SL/M  
 CHECKED BY: SL/M  
 DATE: 5/26/86  
 REVISIONS:  
 1. DATE: 5/26/86  
 2. DATE: 5/26/86  
 3. DATE: 5/26/86  
 4. DATE: 5/26/86

**FRAMING PLAN**

Widen I-64 Over Tucker Station Road SHEET 26  
**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477 + 11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440

UPDATE DATE  
LETTING DATE

DESIGNED BY: SCS  
CHECKED BY: SLM  
DATE: 12/22/62  
REVISIONS:  
DATE: 12/22/62  
BY: SLM  
REASON: REVISED  
DATE: 12/22/62  
BY: SLM  
REASON: REVISED



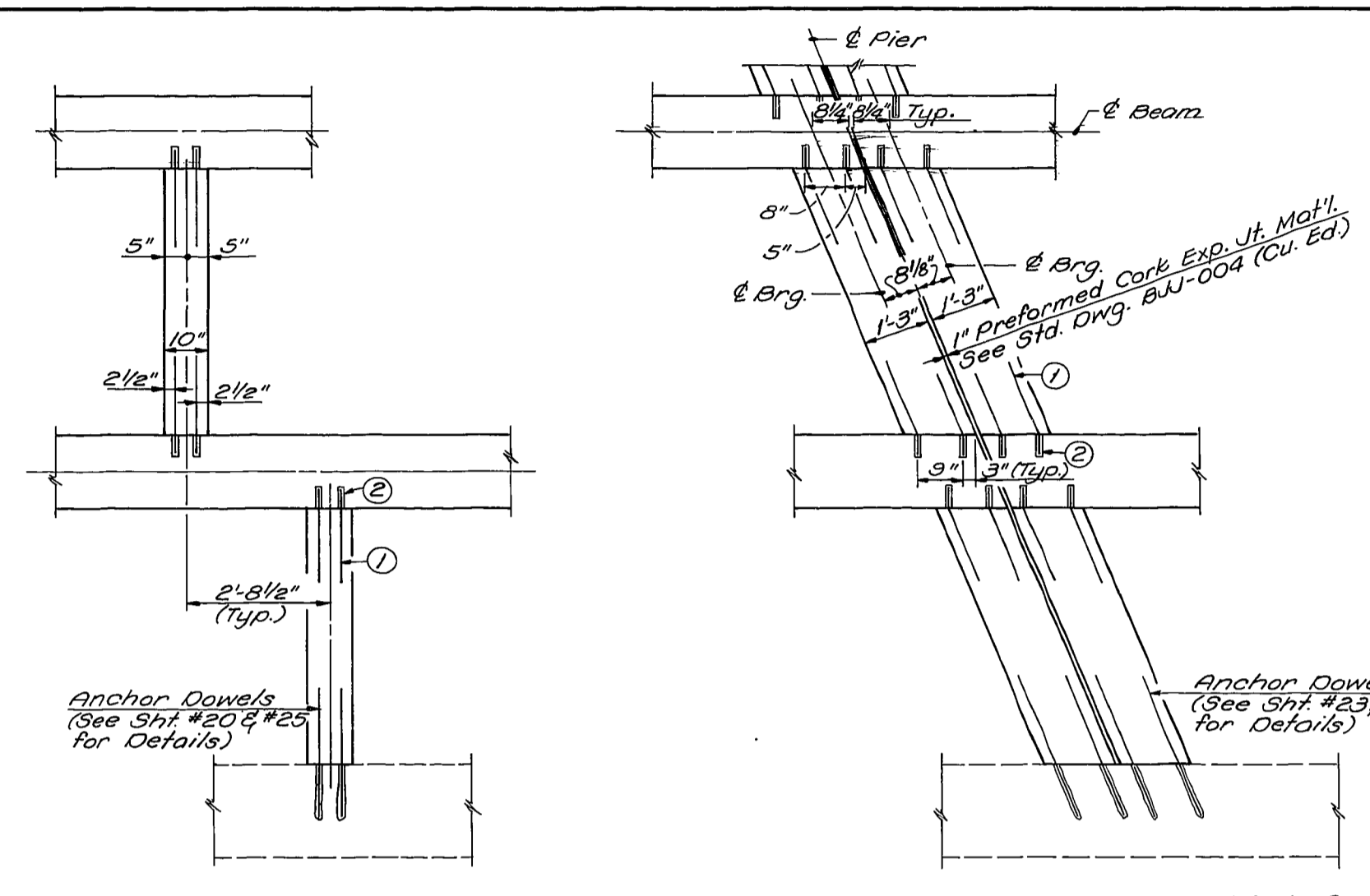
- ① 3/4"  $\phi$  Threaded Anchor Rod  
(Field Bend as required)
- ② Threaded Inserts  
(3/4" Inside Diameter)

BEAM DIMENSIONS

MARK	NO. REQ'D	DIMENSIONS										APPROX. WT. EACH
		A	B	C	D	E	F	G	H	M		
B1	8	52'-2 3/4"	15'-0"	22'-2 3/4"	8"	6"	7"	6"	12"	-1 1/8"		20,060
B2	8	52'-10 3/4"	15'-0"	22'-10 1/4"	8"	6"	7"	6"	12"	-1 1/8"		20,320
B3	8	52'-2 3/4"	15'-0"	22'-2 3/4"	8"	6"	7"	6"	12"	-1 1/8"		20,060

NUMBER OF 1/2"  $\phi$  - 7 WIRE STRANDS IN INDICATED ROWS

MARK	MIDSPAN (SECTION B - B)					END (SECTION A - A)					TOTAL NO.	INITIAL PRESTRESS FORCE / STRAND (LBS)
	BOTTOM		TOP			BOTTOM		TOP				
	①	②	③	④	⑤	①	②	③	④	⑤		
B thru B3	8	8			2	8	6				18	30,980



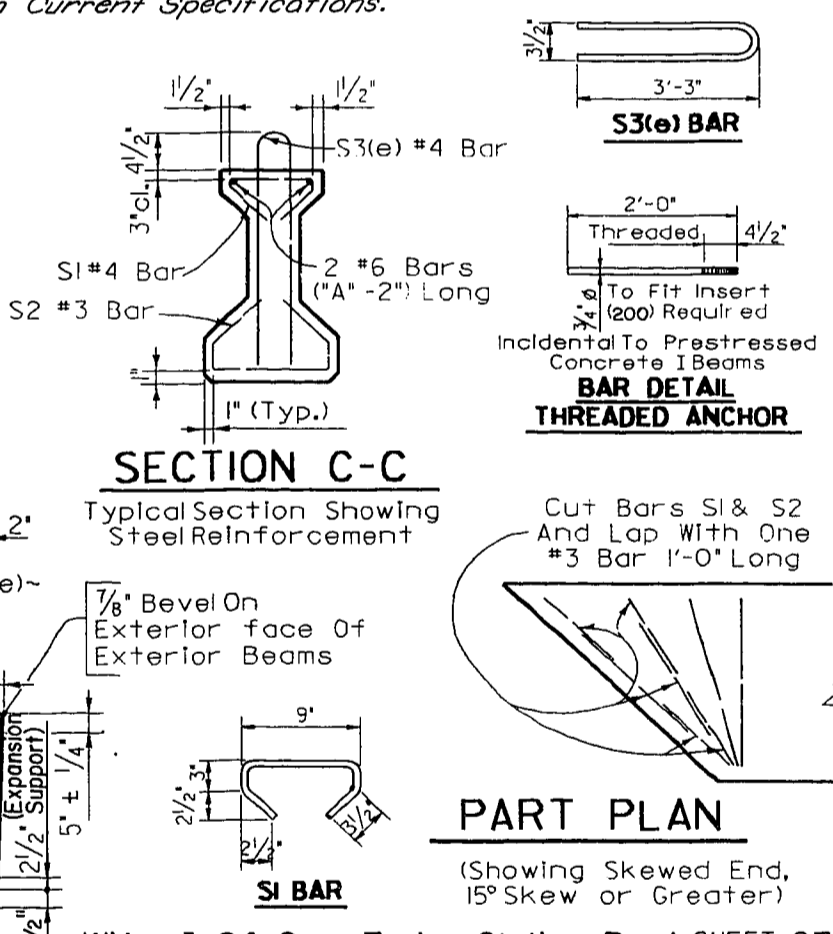
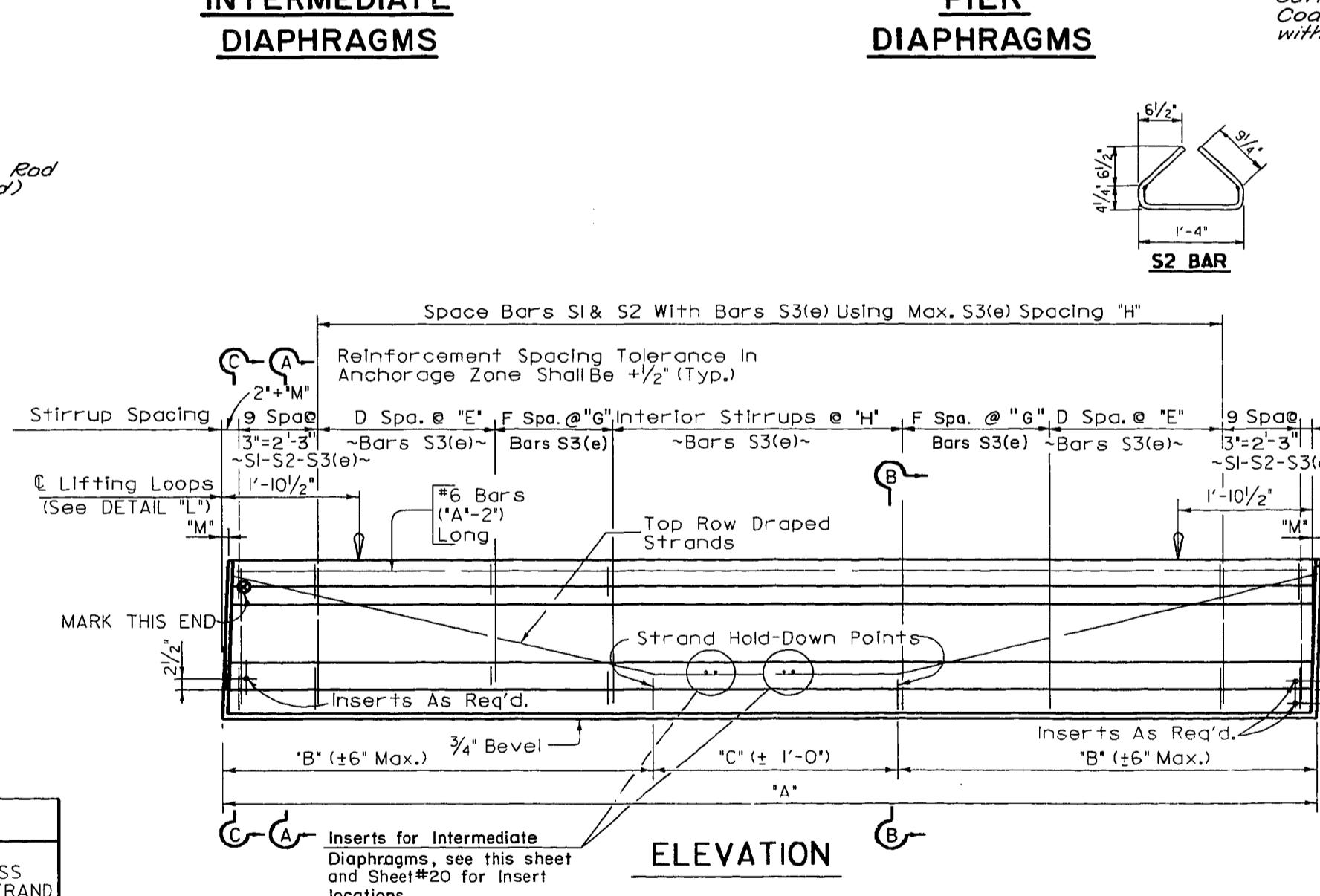
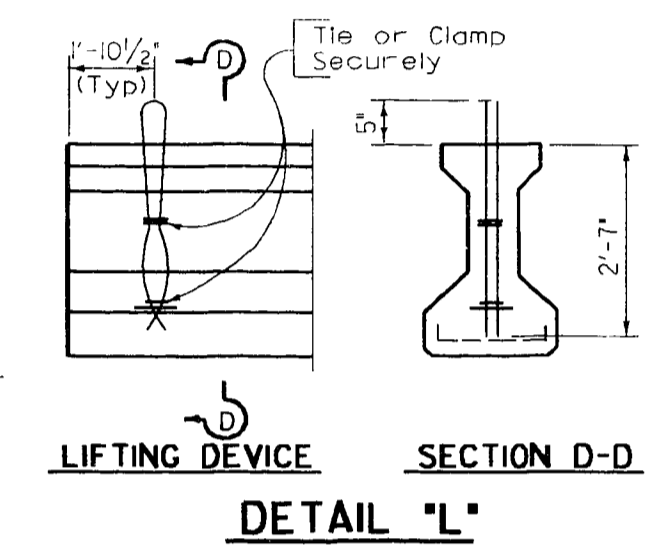
NOTE: Bars designated with Suffix (e) shall be Epoxy Coated in accordance with Current Specifications.

NOTE: Lifting Shall Be By Equal Loads To Each Pair Of Loops.

**AS BUILT PRESTRESS DATA**

STRAND TYPE	
PRESTRESSED FORCE/STRAND	
CONC. RELEASE STRENGTH	
CONC. 28 DAY STRENGTH	
STRAND PATTERN	
NO. OF DRAPED STRANDS	
NO. OF DEBONDED STRANDS	

REMARKS:



**PRESTRESSED - CONCRETE I-BEAM, TYPE II DETAILS**

Widen I-64 Over Tucker Station Road SHEET 27

**COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS**

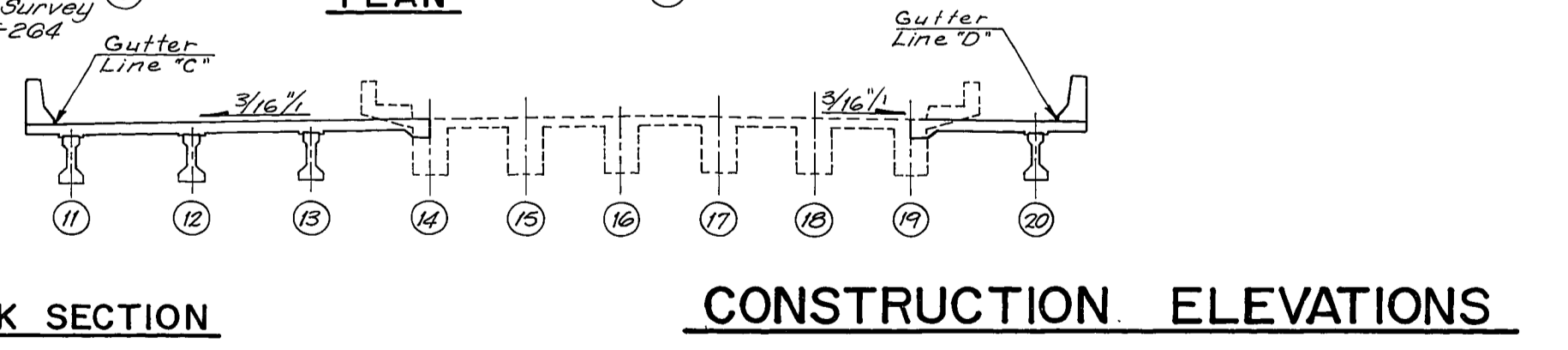
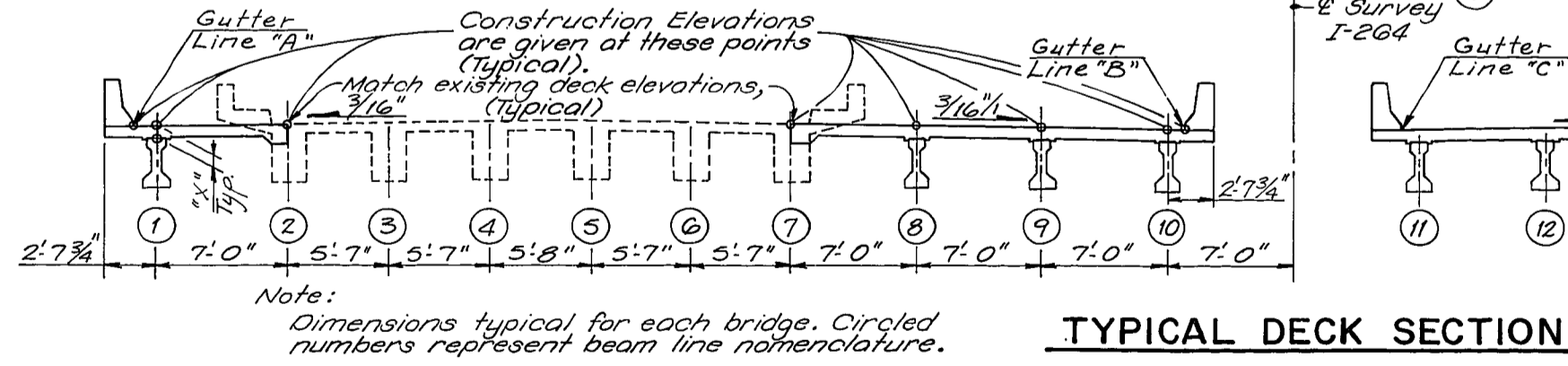
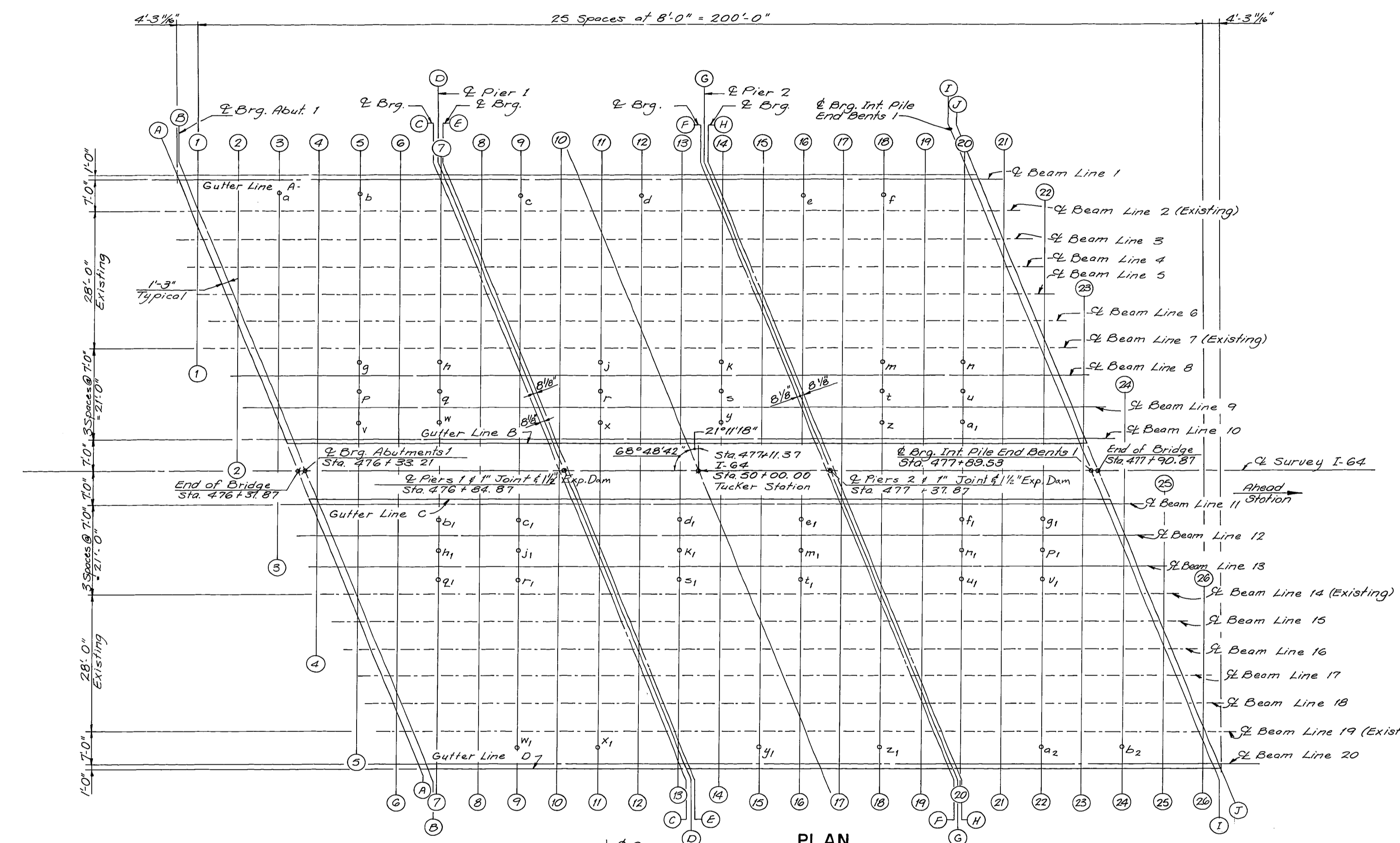
FRANKFORT  
COUNTY OF  
**JEFFERSON  
LOUISVILLE - LEXINGTON**

ROAD  
STATION 477 +11.37      P. E. PROJECT NO.

CONSTRUCTION PROJECT NO.      MAINTENANCE PROJECT NO.      DRAWING NO. 21440

UPDATE DATE .....  
 LETTING DATE .....

DESIGNED BY: SLM  
 CHECKED BY: BSB  
 TRACED BY: SLM  
 DATE: 9-26-66  
 DATE: 9-26-66  
 DATE: 9-26-66  
 REVISIONS: Added 1 1/2" Exp. Dam. to E. Piers 1 & 2  
 DATE: 9-26-66  
 REVISIONS: SLM  
 DATE: 9-26-66  
 REVISIONS: SLM  
 DATE: 9-26-66



NOTES:

TAKE ELEVATIONS ON TOP OF EACH BEAM AT POINTS INDICATED AFTER THE DIAPHRAGMS ARE IN PLACE AND AFTER ALL FALSEWORK HAS BEEN REMOVED, AND, AT THE CONTRACTOR'S OPTION, AFTER FORMS FOR CONCRETE SLABS HAVE BEEN PUT IN PLACE. READ ELEVATIONS TO THREE (3) DECIMALS USING A TARGET ROD AND ENTER READINGS IN THE TABLE UNDER TOP OF BEAM ELEVATIONS.

COMPUTE "DIMENSION X" AS FOLLOWS:  
 "CONSTRUCTION ELEVATIONS" MINUS "TOP OF BEAM ELEVATION" EQUALS "DIMENSION X".  
 "CONSTRUCTION ELEVATIONS" INCLUDES CAMBER DUE TO WEIGHT OF CONCRETE SLAB, BARRIER, AND FUTURE SURFACING. MEASURING OF "DIMENSION X" GIVES THE FINAL CHECK ON BEAM TOLERANCES FOR CAMBER, BEAM DAMAGE, AND ERRORS IN ERECTION THAT PRODUCE REVERSE CAMBERS, SAGS, AND UNSIGHTLY FASCIA BEAMS.

TO SET TEMPLATES MEASURE "DIMENSION X" ABOVE TOP OF BEAM. DO NOT SET TEMPLATES BY ELEVATIONS.

CONSTRUCT BARRIER TO ROADWAY GRADE. DO NOT ADD CAMBER TO BARRIER.

AFTER THE SLAB FORMS ARE ERECTED AND BEFORE THE SLAB REINFORCEMENT IS PLACED, THE RESIDENT ENGINEER SHALL TAKE FIELD ELEVATIONS AT THE SLAB THICKNESS CHECK POINTS AND ENTER THEM IN THE TABLE IN THE SPACE PROVIDED. IF THE SLAB THICKNESS VARIES MORE THAN 1/4" FROM THE PLAN THICKNESS, ALLOWING 1/360 OF THE SLAB SPAN FOR DEFLECTION OF THE FORM WORK, THE FORM SHALL BE ADJUSTED UNTIL THE COMPUTED SLAB THICKNESS IS WITHIN THE TOLERANCE ALLOWED.

Widen I-64 Over Tucker Station Road SHEET 28

**COMMONWEALTH OF KENTUCKY**  
**DEPARTMENT OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON  
 ROAD  
 STATION 477+11.37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.  
 DRAWING NO. 21440

UPDATE DATE .....  
 LETTING DATE .....

DESIGNED BY: SAM  
 CHECKED BY: SAM  
 REVISIONS: DATE: 8/88  
 DATE: 8/88  
 DATE: 8/88  
 DATE: 8/88

GUTTER LINE A		CENTER LINE BEAM LINE 1				CENTER LINE BEAM LINE 2 *				CENTER LINE BEAM LINE 7 *				CENTER LINE BEAM LINE 8				CENTER LINE BEAM LINE 9				CENTER LINE BEAM LINE 10				GUTTER LINE B		
GRID	CONST. ELEV.	GRID	CONST. ELEV.	TOP OF BEAM	DIM "X"	GRID	CONST. ELEV.	TOP OF BEAM	DIM "X"	GRID	CONST. ELEV.	TOP OF BEAM	DIM "X"	GRID	CONST. ELEV.	TOP OF BEAM	DIM "X"	GRID	CONST. ELEV.	TOP OF BEAM	DIM "X"	GRID	CONST. ELEV.	TOP OF BEAM	DIM "X"	GRID	CONST. ELEV.	
A	702.305	A	702.309			A	702.337			A	702.011			A	701.820			A	701.630			A	701.439			A	701.412	
B	702.265	B	702.269			B	702.297			B	701.971			B	701.780			B	701.589			B	701.399			B	701.371	
1	702.186	1	702.201			2	702.086			3	701.838			3	701.720			4	701.387			4	701.269			4	701.253	
2	701.969	2	701.984			3	701.863			4	701.618			4	701.503			5	701.164			5	701.050			5	701.033	
3	701.741	3	701.757			4	701.629			5	701.388			5	701.276			6	700.931			6	700.820			6	700.804	
4	701.504	4	701.520			5	701.387			6	701.149			6	701.040			7	700.688			7	700.581			7	700.565	
5	701.258	5	701.274			6	701.134			7	700.900			7	700.794			8	700.436			8	700.332			8	700.317	
6	701.002	6	701.018			7	700.872			8	700.641			8	700.539			9	700.174			9	700.073			9	700.059	
C	700.737	7	700.753			C	700.769			9	700.443			9	700.274			C	700.062			C	699.871			C	699.844	
7	700.736	C	700.741			D	700.747			D	700.421			C	700.252			D	700.040			D	699.849			D	699.822	
D	700.715	D	700.719			E	700.725			E	700.399			D	700.230			E	700.018			E	699.827			E	699.800	
E	700.693	E	700.697			8	700.633			9	700.383			E	700.209			10	699.934			10	699.814			10	699.797	
8	700.518	8	700.533			9	700.416			10	700.169			10	700.052			11	699.717			11	699.601			11	699.584	
9	700.297	9	700.312			10	700.189			11	699.945			11	699.831			12	699.490			12	699.377			12	699.361	
10	700.066	10	700.081			11	699.951			12	699.712			12	699.601			13	699.253			13	699.143			13	699.128	
11	699.825	11	699.841			12	699.704			13	699.468			13	699.361			14	699.006			14	698.900			14	698.885	
12	699.574	12	699.590			13	699.448			14	699.215			14	699.111			15	698.750			15	698.647			15	698.632	
13	699.313	13	699.330			14	699.181			15	698.952			15	698.851			16	698.483			16	698.384			16	698.370	
F	699.147	F	699.151			F	699.179			F	698.853			F	698.662			F	698.472			F	698.281			F	698.254	
G	699.125	G	699.129			G	699.157			G	698.831			G	698.640			G	698.450			G	698.259			G	698.232	
H	699.103	H	699.107			H	699.135			H	698.809			H	698.619			H	698.428			H	698.237			H	698.210	
14	699.062	14	699.076			15	698.962			16	698.714			16	698.595			17	698.263			17	698.145			17	698.128	
15	698.846	15	698.860			16	698.741			17	698.495			17	698.380			18	698.041			18	697.927			18	697.910	
16	698.620	16	698.635			17	698.509			18	698.267			18	698.155			19	697.810			19	697.699			19	697.683	
17	698.385	17	698.400			18	698.268			19	698.029			19	697.920			20	697.569			20	697.461			20	697.446	
18	698.140	18	698.156			19	698.017			20	697.782			20	697.676			21	697.319			21	697.214			21	697.199	
19	697.885	19	697.902			20	697.756			21	697.525			21	697.422			22	697.058			22	696.957			22	696.942	
20	697.621	20	697.638			I	697.607			I	697.281			22	697.159			I	696.900			I	696.709			I	696.682	
I	697.575	I	697.579			J	697.567			J	697.241			I	697.091			J	696.860			J	696.669			J	696.642	
J	697.535	J	697.539											J	697.050													

\*Theoretical elevations of existing deck.  
 Match existing deck elevation when pouring new deck.

POINT	TOP OF SLAB ELEV.	BOTTOM OF SLAB ELEV.	COMPUTED SLAB THICKNESS	POINT	TOP OF SLAB ELEV.	BOTTOM OF SLAB ELEV.	COMPUTED SLAB THICKNESS	POINT	TOP OF SLAB ELEV.	BOTTOM OF SLAB ELEV.	COMPUTED SLAB THICKNESS
a	701.810			p	701.220						
b	701.331			q	700.741						
c	700.364			r	699.774						
d	699.647			s	699.059						
e	698.688			t	698.098						
f	698.212			u	697.623						
g	701.332			v	701.107						
h	700.847			w	700.635						
j	699.888			x	699.659						
k	699.163			y	698.953						
m	698.211			z	697.984						
n	697.729			aa	697.515						

**CONSTRUCTION ELEVATIONS**

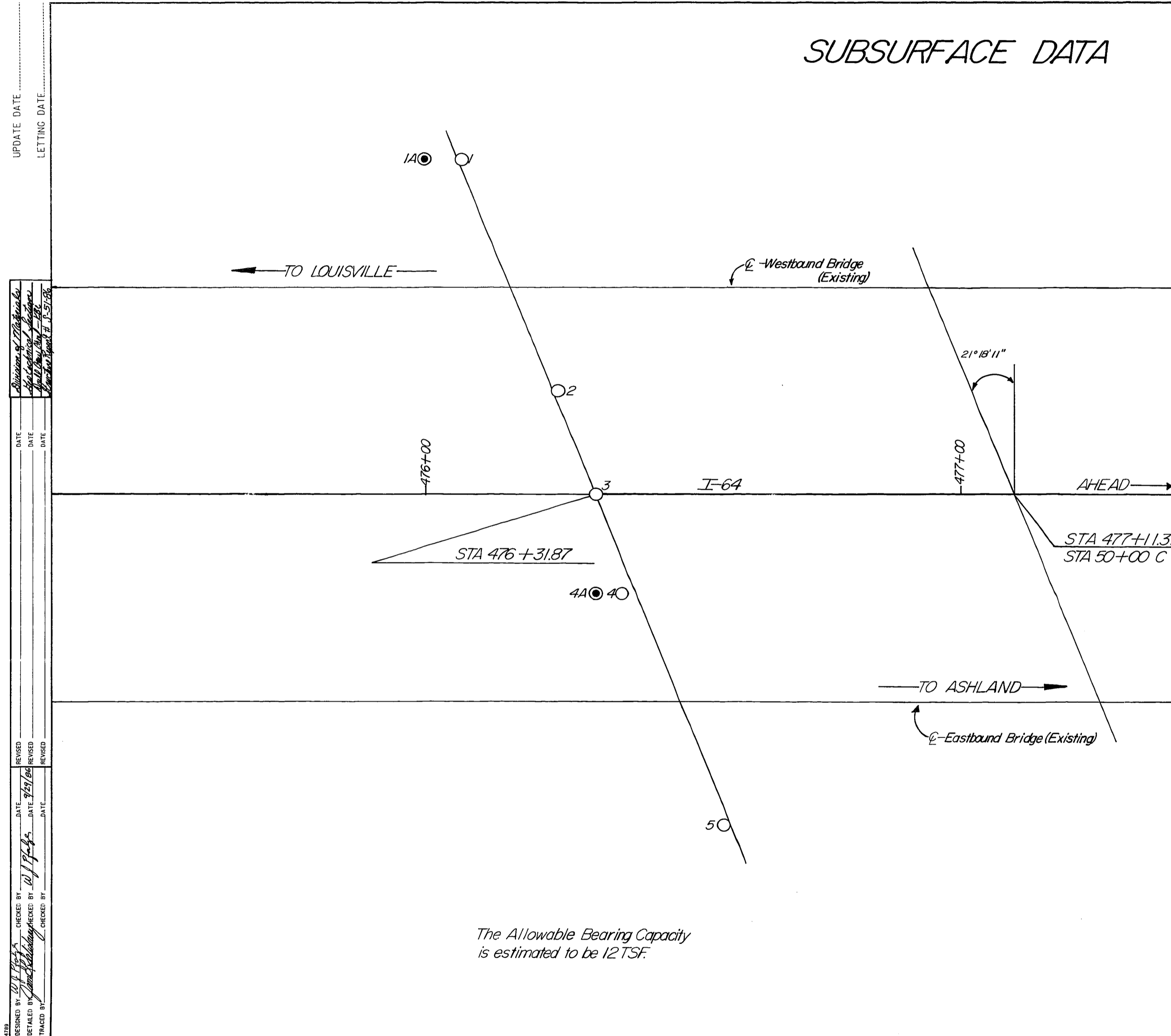
Widen I-64 Over Tucker Station Road SHEET 29

**COMMONWEALTH OF KENTUCKY**  
 DEPARTMENT OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**JEFFERSON**  
 LOUISVILLE - LEXINGTON

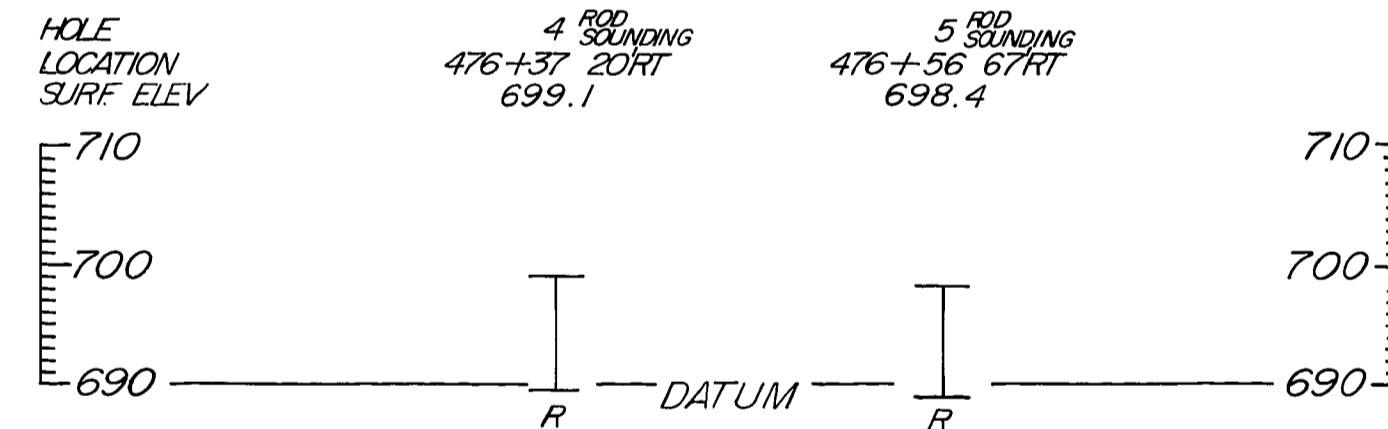
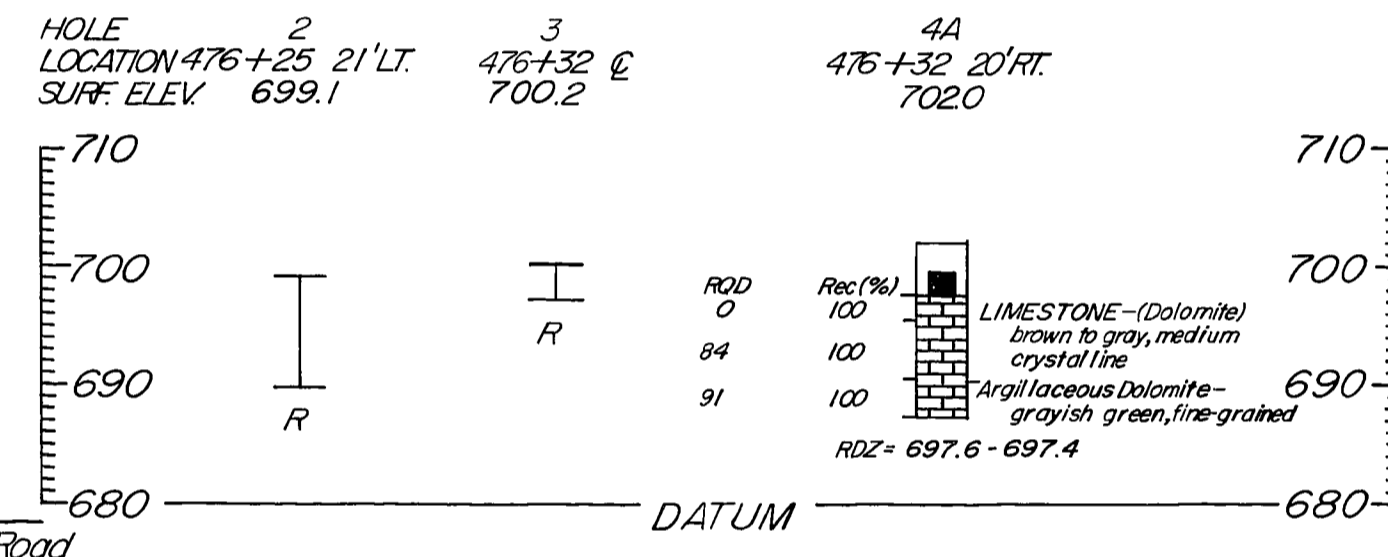
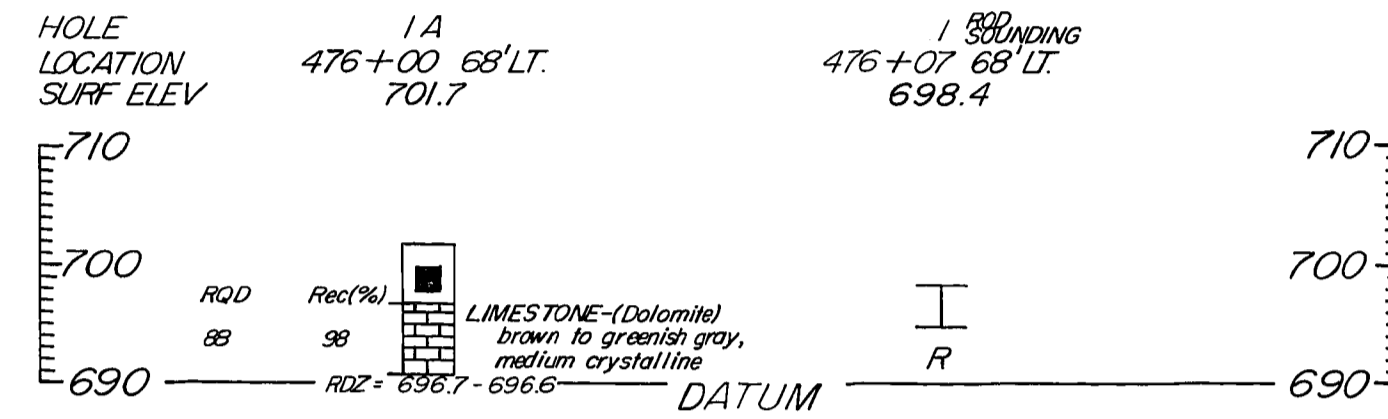
ROAD  
 STATION 477 + II. 37 P. E. PROJECT NO.  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440



# SUBSURFACE DATA



DESIGNED BY	DATE	CHECKED BY	DATE
DETAILED BY	DATE	CHECKED BY	DATE
TRACED BY	DATE	CHECKED BY	DATE



I-64 over TUCKER STATION ROAD SHEET 31

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**JEFFERSON**  
LOUISVILLE-LEXINGTON ROAD  
ROAD

STATION 477+11.37 P. E. PROJECT NO. 058 024 05-018 C3/D

CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 21440

Description of Soil Compactness or Consistency

SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF PENETRATION RESISTANCE	RANGE OF UNCONFINED COMPRESSIVE STRENGTH
Coarse grained soils (More than half of material is larger than No.200 sieve size.)	Very loose Loose Medium compact Compact Very compact	Less than 4 blows per foot 4 to 10 10 to 30 30 to 50 Greater than 50	Not applicable
Fine grained soils (More than half of material is smaller than No.200 sieve size.)	Very soft Soft Medium stiff Stiff Very stiff Hard	Not applicable	Less than 0.25 tsf 0.25 to 0.5 0.5 to 1.0 1.0 to 2.0 2.0 to 4.0 Greater than 4.0

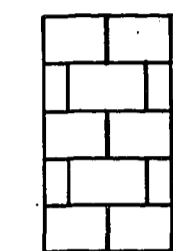
Unified Soil Classifications

MAJOR DIVISIONS	SYMBOL	NAME
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW Well-graded gravels or gravel-sand mixtures, little or no fines
		GP Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GM Silty gravels, gravel-sand-silt mixtures
		GC Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS	SW Well-graded sands or gravelly sands, little or no fines.
		SP Poorly graded sands or gravelly sands, little or no fines.
		SM Silty sands, sand-silt mixture
		SC Clayey sands, sand-clay mixtures
FINE GRAINED SOILS	SILTS AND CLAYS LL IS LESS THAN 50	ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
		CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	SILTS AND CLAYS LL IS GREATER THAN 50	MH Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
	CH Inorganic clays of high plasticity, fat clays	
UNCLASSIFIED MATERIAL	NONE	Non-classified material (i.e. overburden, pavement, coal mine waste, slag, rubble, talus, etc.) include visual description.

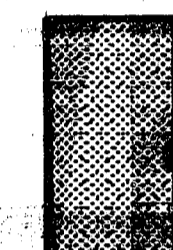
- AI Activity Index
- LI Liquidity Index
- N Penetration Resistance
- S+C(%) Material finer than No.200 sieve
- Rockline Sounding
- ⊕ Disturbed Sample Boring
- ⊙ Undisturbed Sample Boring
- ⊙ Undisturbed Sample Boring and Rock Core
- Rock Core
- ⊙ Slope inclinometer Installation
- typical applications: ○ ⊕ ⊙ ●
- ➔ Approximate Footing Elevation
- ▽ Water Elevation
- Thin-walled Tube Sample
- < Standard Penetration Test Sample
- Qu Unconfined Compressive Strength
- w(%) Moisture Content
- RQD(%) Rock Quality Designation
- SDI(%) Stake Durability Index
- Rec.(%) Core Recovery
- ∅ Angle of Internal Friction
- ∅ Effective Angle of Internal Friction
- c Cohesion
- c̄ Effective Cohesion
- γ Total Unit Weight
- RDZ Rock Disintegration Zone
- OB Overburden Bench
- IB Intermediate Bench
- R Refusal
- NR Refusal Not Encountered

Relation of RQD and in situ Rock Quality

RQD(%)	Rock Quality
90-100	Excellent
75-90	Good
50-75	Fair
25-50	Poor
0-25	Very Poor



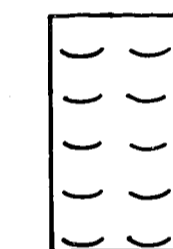
LIMESTONE



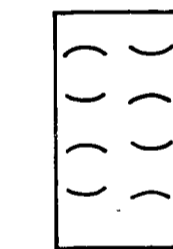
SANDSTONE



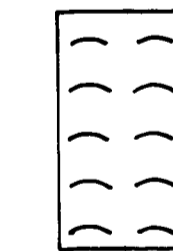
COAL



SHALE, SOIL-LIKE (SDI ≤ 50)



SHALE, INTERMEDIATE (50 < SDI < 95)



SHALE, ROCK-LIKE (SDI ≥ 95)

I-64 over TUCKER STATION ROAD SHEET 32

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**JEFFERSON**  
LOUISVILLE-LEXINGTON ROAD  
ROAD  
STATION 477+11.37  
CONSTRUCTION PROJECT NO. \_\_\_\_\_  
P. E. PROJECT NO. 056 0084 05-08  
MAINTENANCE PROJECT NO. \_\_\_\_\_  
DRAWING NO. 21440

