

KENTUCKY DEPARTMENT OF HIGHWAYS
JEFFERSON COUNTY
U.S. 31-W --- ALGONQUIN PARKWAY
INTERSTATE 264 (SHAWNEE PARKWAY) OVER
GARR'S LANE

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

PLANS PROVIDED BY
WATKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS
LEXINGTON, KENTUCKY

DATE: 11-23-69
BY: J.D. Hoon
CHECKED BY: C.C. Bell
APPROVED BY: C.G. Bell

REVISIONS:
1. 11-23-69
2. 11-23-69
3. 11-23-69

REFERENCE AND ESTIMATE OF QUANTITIES																	
ITEM	SHEET NO.	CLASS "A" CONC. (C.Y.)	CLASS "AA" CONC. (C.Y.)	REINF STEEL (LBS.)	STRUCT. EXC. COMMON (C.Y.)	END BENT BACKFILL (C.Y.)	SLOPE PROT. (S.Y.)	HIGH STRENGTH HANDRAIL (L.F.)	STYRENE-BUTADIENE PROTECTIVE COATING (GALS.)	STRUCT. STEEL (L.S.)	CONC. PILES (L.F.) (SEE GENERAL NOTES FOR DESCRIPTION)						ELEC. CONDUIT (L.S.)
											ALT. "A" FURN.	DR.	ALT. "B" FURN.	DR.	ALT. "C" FURN.	DR.	
COVER	1																
GENERAL NOTES	2																
LAYOUT	3																
PILE LAYOUT & RECORD	4																
END BENT 1	5-6	16.8	36.4	17,333	590	179	525			LUMP SUM	1045	1045	1045	1045	1045	1045	
END BENT 2	7-8	16.1	34.7	17,172	671	179	525				1048	1048	1048	1048	1048	1048	
END BENT DETAILS	9																
PIER 1	10	144.0		38,726	194						1327	1327	1327	1327	1327	1327	
PIER 2	10	141.3		37,890	194						1327	1327	1327	1327	1327	1327	
PIER DETAILS	11																
SUPERSTRUCTURE ELEVATIONS	12-16		963.4	308,142													
ANCHOR BOLT LAYOUT	17																
HANDRAIL	9,13,14							350.8									
SHOES	18 SS-2																
EXPANSION DAMS	3-8 ED-35																
ELEC. CONDUIT	19																
SUBSTR. TOTALS		616.2	71.1	111,121	1655	358	1050	—	—		4747	4747	4747	4747	4747	4747	
SUPERSTR. TOTALS			963.4	308,142	—	—	—	350.8			—	—	—	—	—	—	
TOTALS		616.2	1034.5	419,263	1655	358	1050	350.8	36	①	4747	4747	4747	4747	4747	4747	③

- ① Approximate weight of Structural Steel - 4720 (Does not include weld material; does include lead plates.)
② Not permitted in End Bents.
③ For Electrical Conduit Quantities see sheet 19

BILL OF INCIDENTAL MATERIAL			
ITEM	NO.	SIZE	LOCATION
PREMOLDED EXP. JT. MAT'L	4	5-6 x 1'-10 x 1/2"	END BENTS
JT. SEALING COMPOUND	1	1' x 3 1/2 x 219-4"	EXP. DAMS
4-BOLT INSERT ASSEMBLY	4	See Roadway Plans	WINGWALLS

NOTE:
The Bill of Incidental Material is approximate only and the Contractor is responsible for furnishing enough materials to complete the work in accordance with the Plans and Specifications.

STANDARD DRAWINGS

ED-35 P21A H-117C
SS-2A H-150B
SF-20 AE-16
P2 17.40
P20 SP-1

SPECIAL PROVISIONS:

No. 77 Styrene-Butadiene Protective Coating
No. 12 Joint Sealing Compound
No. 30-A Membrane Curing of Concrete
No. 35-B (No. 35) Class "A-A" Concrete

I-264 Over Garr's Lane Sheet 1 of 19

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
JEFFERSON	
SHAWNEE PARKWAY-LOUISVILLE	
ROAD	
STATION 170+34.65	PROJECT NO. 1-264-1(16)
BRIDGE NUMBER I-264-1(35)6	DRAWING NO. 16691

÷ GENERAL NOTES ÷

FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				

SPECIFICATIONS: Kentucky Department of Highways Standard Specifications, current edition with Revisions, shall apply to this project.

DESIGN LOAD: Bridge designed for HS20-44A loading as specified in 1965 A.A.S.H.O. Specifications.

DESIGN STRESSES: For reinforced concrete design stresses shall be as follows:

(Class A)
 $f_s = 20,000$ p.s.i. $u = 300$ p.s.i. for Z_o
 $f_c = 1,200$ p.s.i. $f_c = 3,000$ p.s.i.
 $u = 200$ p.s.i. for embedment $n = 10$

(Class AA)
 $f_s = 20,000$ p.s.i. $u = 350$ p.s.i. for Z_o
 $f_c = 1,200$ p.s.i. (Slab Design only) $f_c = 4,000$ p.s.i.
 $u = 200$ p.s.i. for embedment $n = 8$

FOUNDATION PRESSURE: Piles are designed for a maximum load of 60 tons per pile. These maximums are for Group 1 with increase allowed for other loading groups. In the End Bents, the maximum axial load is 49 tons and the maximum horizontal shear per pile is 1 ton.

CONCRETE: Except for concrete handrail, Class "AA" concrete is to be used throughout the superstructure and portions of the substructure above the bearing seats. Class "A" concrete is to be used in the substructure below the bearing seats except for concrete piles. Class "D" concrete is to be used in piles and concrete handrail.

POURING SEQUENCE: Pour the girder stem in one continuous operation in horizontal layers for each girder. Pour endwalls and diaphragms with girder stem by providing vertical construction joints midway between girders. The pouring sequence of the slab may be changed with the written approval of the Engineer.

REINFORCEMENT: Dimensions shown from face of concrete to bars are clear distances. Spacing of bars is from center to center of bars.

BEVELED EDGES: All exposed edges shall be beveled $\frac{1}{8}$ " unless otherwise shown.

EXPANSION JOINT MATERIAL BOLT INSERT ASSEMBLIES POLYVINYL WATERSTOP JOINT SEATING COMPOUND: The cost of these items are to be included in the unit price bid for Class "AA" concrete.

STRUCTURAL STEEL: "Lump Sum Bid" for Structural Steel shall be full payment for all structural steel, rivets, bolts, washers, steel pins, cast iron, lead plates, molten lead, welding and welding materials, paint and labor and materials necessary to erect the steel in accordance with the plans and specifications.

PILING: Friction piles shall be driven to sustain a minimum load of 15 tons per pile. Test piles shall be driven where designated on the plans to determine the length required. All test piles shall be accurately located so that they may be used in the finished structure.

ALTERNATE TYPES OF PILES: The contractor shall use one of alternate types A thru C throughout.
 Alternate A - 14" Precast concrete piles.
 Alternate B - 14" Cast-in-place seamless or welded steel shell Concrete Piles.
 Alternate C - 14" Nominal Built Diameter cast-in-place fluted steel shell Concrete Piles.

PAINT: All structural steel except pins and pin bearing surfaces shall be given one shop coat and one field coat of Type I red lead paint and two field coats of aluminum paint. Exposed surfaces of expansion dams, not accessible after erection shall be given two field coats of aluminum paint before erection. Pins and pin bearing surfaces shall be coated in the shop with a hot mixture of white lead and tallow in accordance with the specifications. Shop paint shall not be applied within 3" of open holes where high strength bolts are to be used for field connections and shall not be applied to steel surfaces in contact with concrete.

SLOPE PROTECTION: Slope protection shall be 4" concrete slope wall in accordance with Standard Drawing, Current Edition.

PROTECTIVE COATING: Protective Coating shall be furnished and applied in accordance with Special Provision No. 77. Contrary to Special Provision No. 77, Styrene-Buladiene Protective Coating shall not be applied to front faces of abutments or end bents. In no instance shall Styrene-Buladiene Protective Coating be applied to the bridge deck between curb lines.

ELECTRICAL CONDUIT: The Lump Sum bid for this item shall include furnishing all junction boxes, conduit and other materials and labor necessary for placing these materials in accordance with the plans and specifications.

OPTIONAL TYPE OF HANDRAIL: The contractor shall provide throughout the project, at his option either High Strength Aluminum Handrail or High Strength Concrete Handrail according to the Standard Drawings, Current Edition.

CONSTRUCTION IDENTIFICATION: The names of the Prime Contractor and the Subcontractor shall be imprinted in the concrete with one inch letters at a location designated by the Engineer. The Contractor shall furnish all plans, equipment and labor necessary to do the work for which no direct payment shall be made.

WINDLOADS: This structure is designed using wind loads based on a wind velocity of 84 m.p.h.

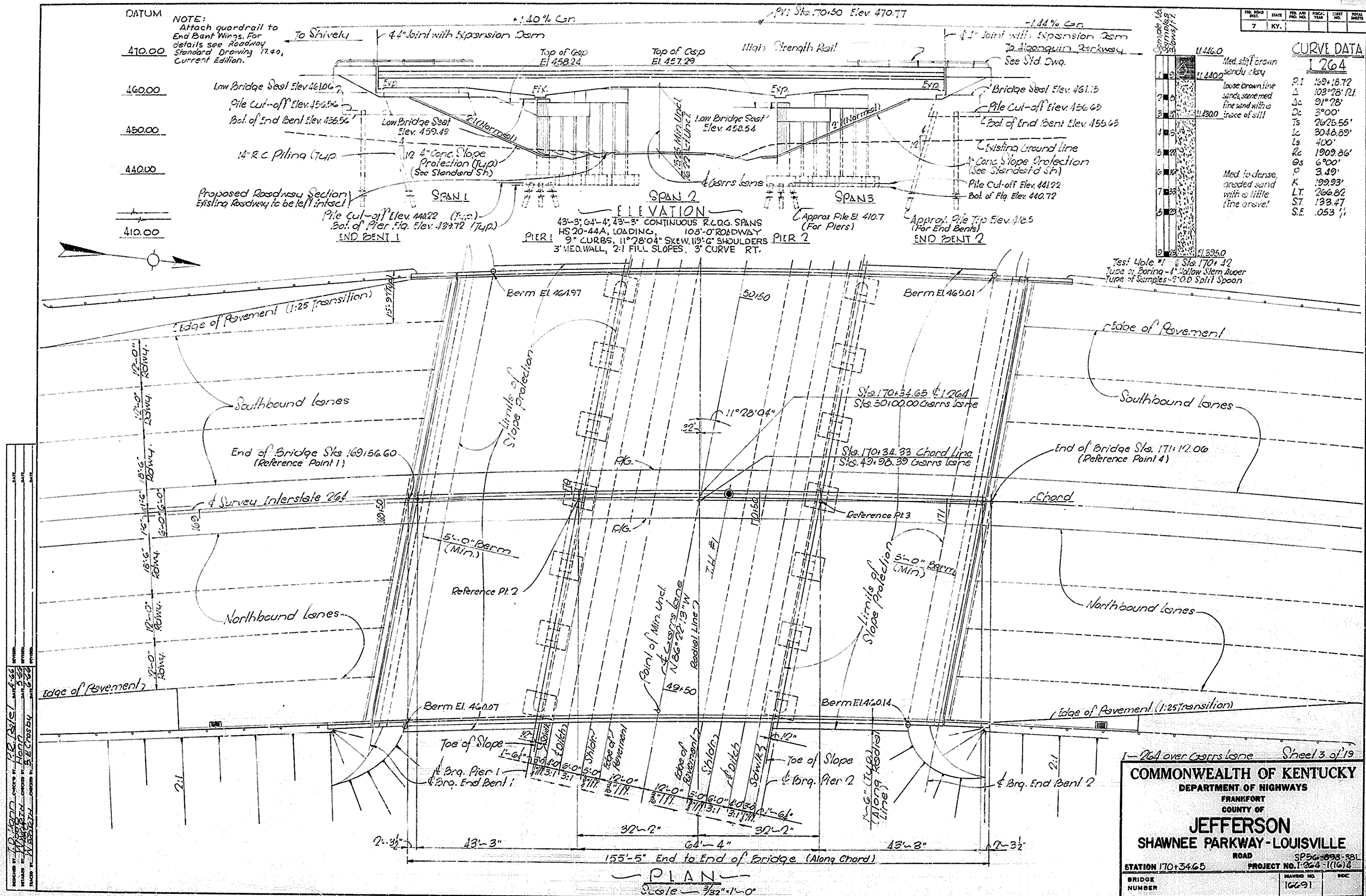
PREMOLDED CORK EXPANSION JOINT MATERIAL: Premolded cork filler shall conform to A.S.T.M. Specification D1752-67, Type II.

DECK SURFACE FINISH: The deck area measured from face of median barrier to inside edge of through travel lane shall receive a broomed finish as outlined on Road Plans Note Sheet. Remainder of bridge deck to receive surface finish in accordance with specifications.

GENERAL NOTES

I-264 Over Garris Lane		Sheet 2 of 19	
COMMONWEALTH OF KENTUCKY			
DEPARTMENT OF HIGHWAYS			
FRANKFORT			
COUNTY OF			
JEFFERSON			
SHAWNEE PARKWAY-LOUISVILLE			
ROAD SP56-898-38L		PROJECT NO. 264-1(16)4	
STATION 170+34.65		DRAWING NO.	
BRIDGE NUMBER		16E91	

BRIDGE

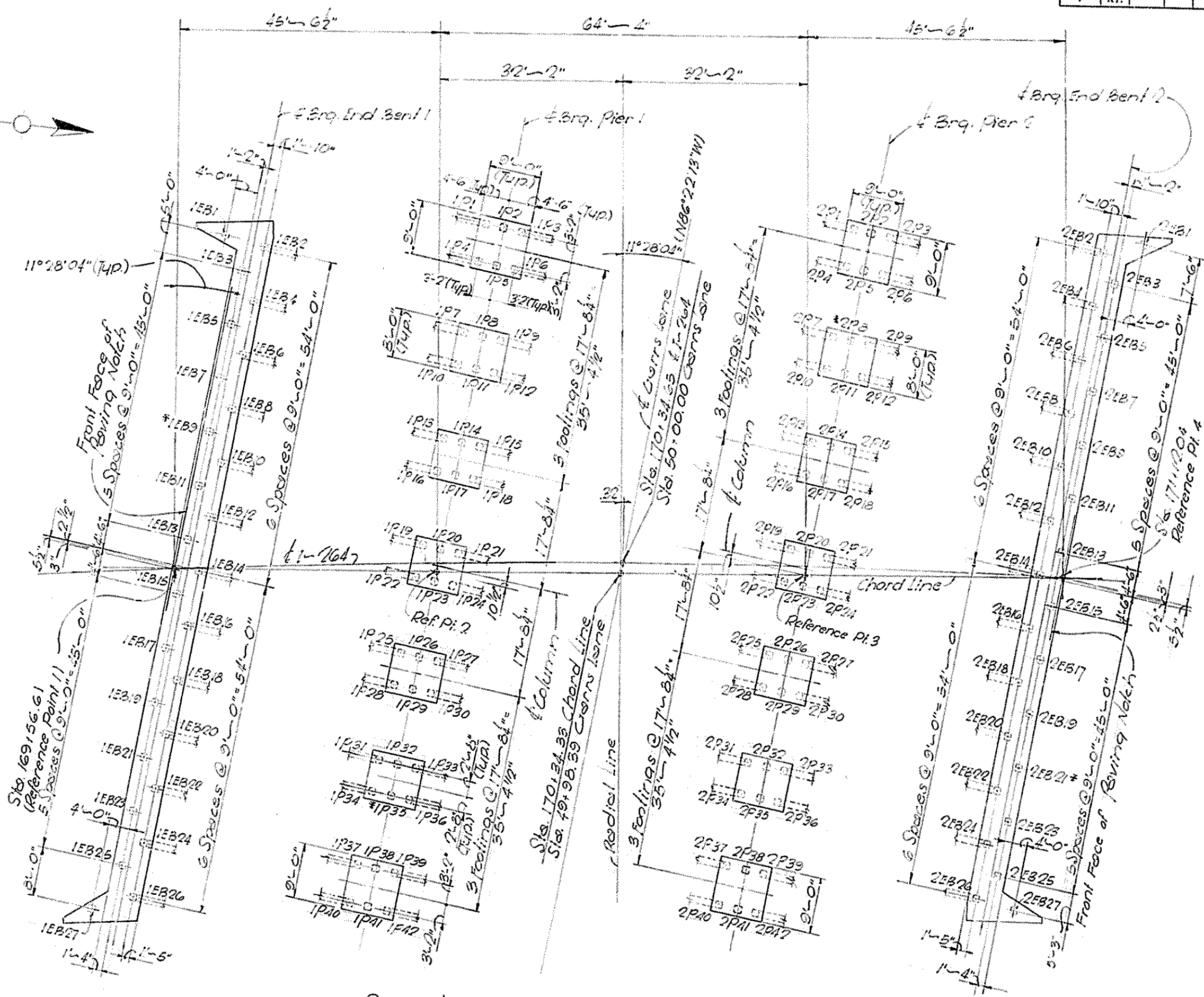


PILE RECORD

PILE	CUT OFF ELEV.	TIP ELEV.	LENGTH FEET	CALC BRG CAPACITY TONS	PILE	CUT OFF ELEV.	TIP ELEV.	LENGTH FEET	CALC BRG CAPACITY TONS
IP1	440.220				2P1	441.220			
IP2					2P2				
IP3					2P3				
IP4					2P4				
IP5					2P5				
IP6					2P6				
IP7					2P7				
IP8					2P8				
IP9					2P9				
IP10					2P10				
IP11					2P11				
IP12					2P12				
IP13					2P13				
IP14					2P14				
IP15					2P15				
IP16					2P16				
IP17					2P17				
IP18					2P18				
IP19					2P19				
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IP21					2P21				
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IP31					2P31				
IP32					2P32				
IP33					2P33				
IP34					2P34				
IP35					2P35				
IP36					2P36				
IP37					2P37				
IP38					2P38				
IP39					2P39				
IP40					2P40				
IP41					2P41				
IP42	440.220				2P42	441.220			
IEB1	456.566				2EB1	456.655			
IEB2					2EB2				
IEB3					2EB3				
IEB4					2EB4				
IEB5					2EB5				
IEB6					2EB6				
IEB7					2EB7				
IEB8					2EB8				
IEB9					2EB9				
IEB10					2EB10				
IEB11					2EB11				
IEB12					2EB12				
IEB13					2EB13				
IEB14					2EB14				
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IEB16					2EB16				
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IEB18					2EB18				
IEB19					2EB19				
IEB20					2EB20				
IEB21					2EB21				
IEB22					2EB22				
IEB23					2EB23				
IEB24					2EB24				
IEB25					2EB25				
IEB26					2EB26				
IEB27	456.566				2EB27	456.655			

NOTE: This Pile Record does not replace other records of piles required to be kept and submitted by the Resident Engineer.
After all piles have been driven, the Resident Engineer shall record the tip of pile elevations as driven, the length of pile in place, the calculated bearing capacity of each pile and shall return one blue print copy of this sheet with this data to the Director 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 cut-off elevation and are not necessarily per item.

* TEST PILES:
Estimated 35 feet Long for Piers
Estimated 42 feet Long for End Bent



PILE LAYOUT & STAKE-OUT PLAN
(Piling dimensions are at bottom of footings)

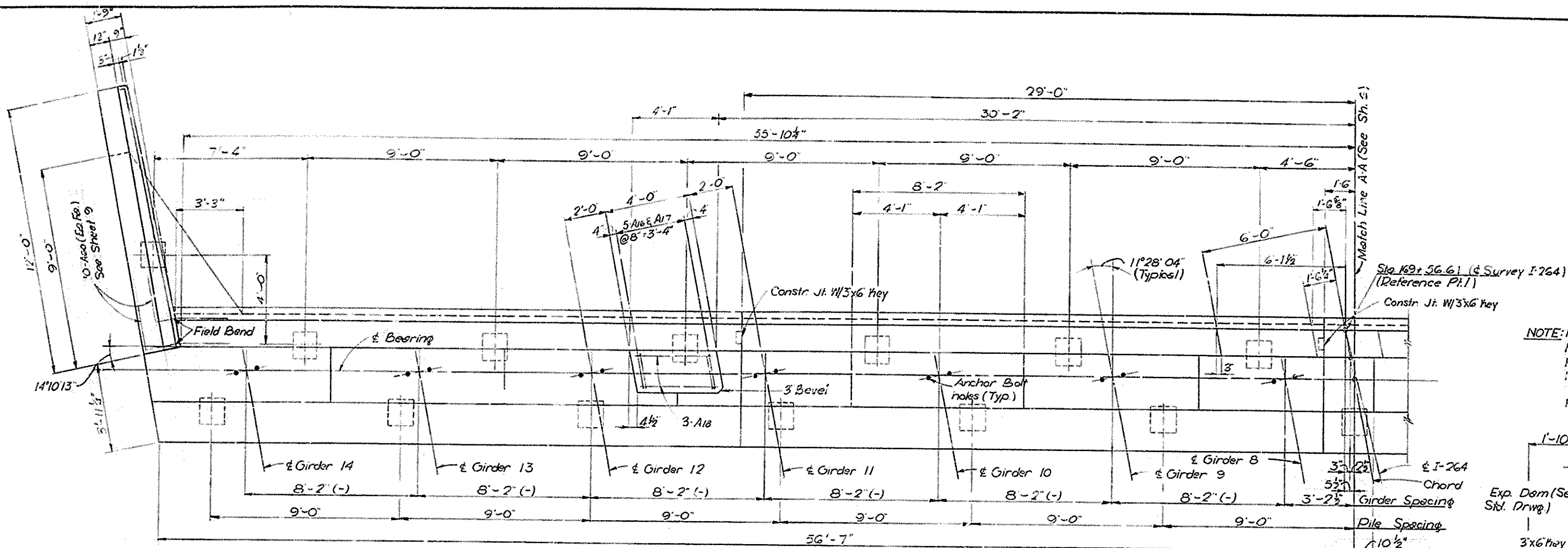
1-264 over Garra Lane Sheet 4 of 19

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

JEFFERSON
SHAWNEE PARKWAY-LOUISVILLE

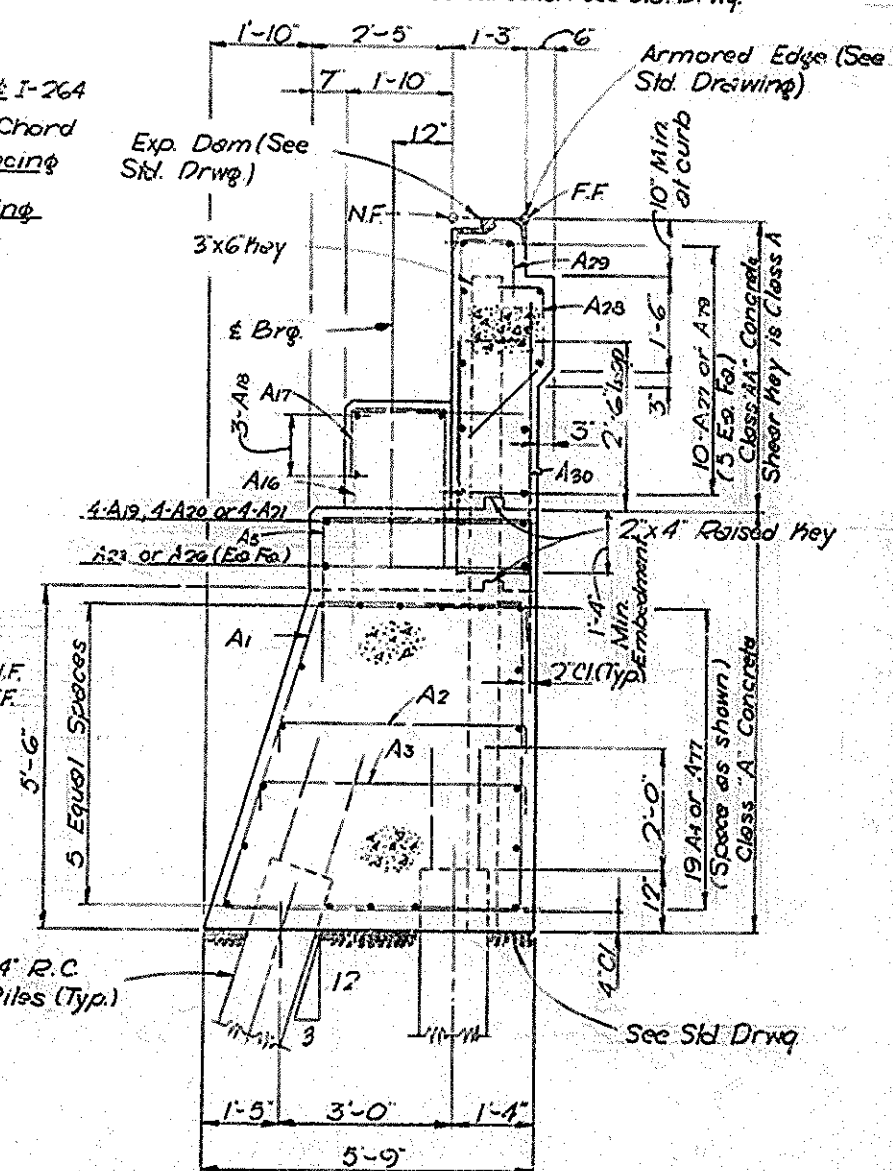
STATION 170+34.65 ROAD SP56-898-3BL
PROJECT NO. 1-264-1(16)4

BRIDGE NUMBER DRAWING NO. 16691 DWG. NO.

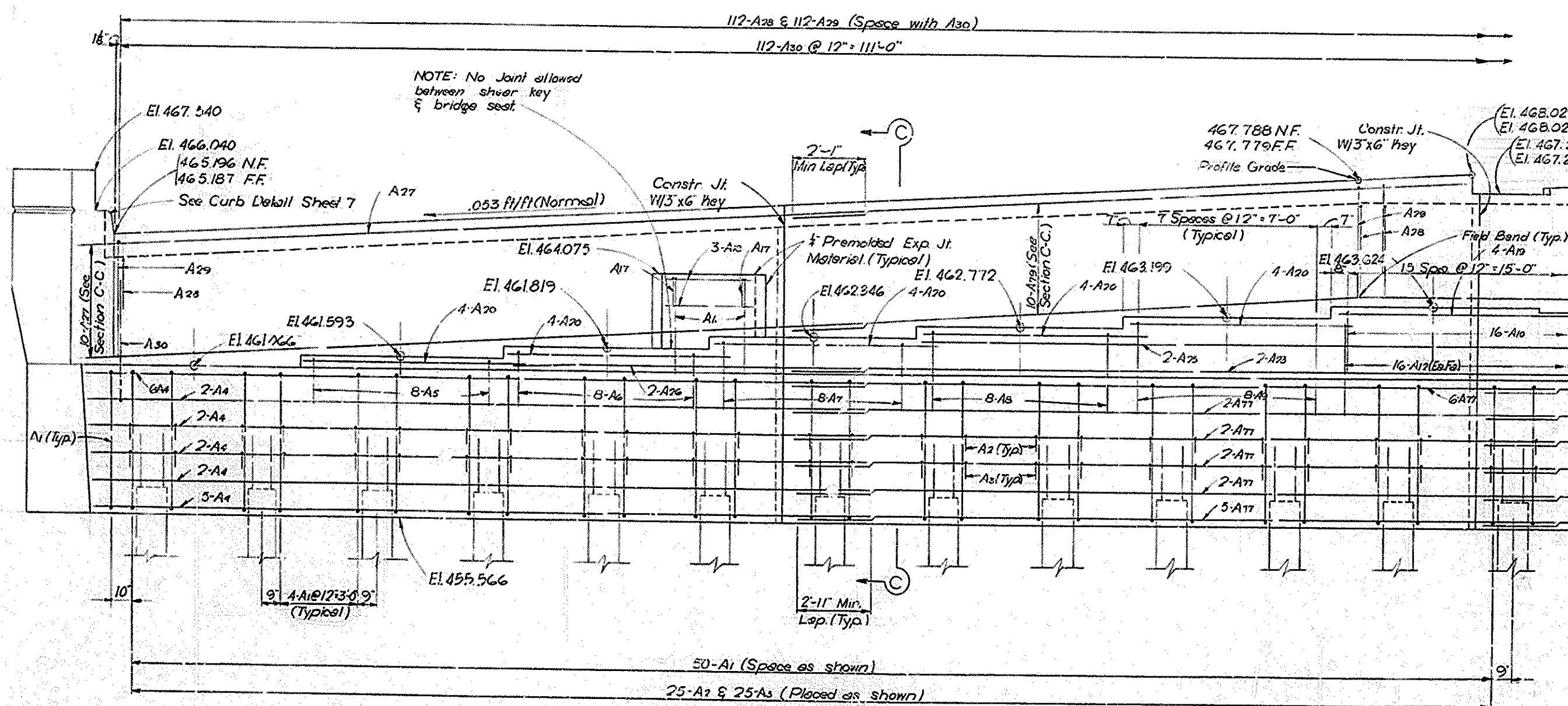


PLAN

NOTE: For Bill of Reinforcement see Sheet 9.
 For Notes see Sheet 10.
 For Anchor Bolt Hole Layout see Sheet 18.
 For Detail of Exp. Dam over Median see Sheet 16.
 For Details of End Bent Backfill & Method of Construction see Std. Drwg.



SECTION C-C



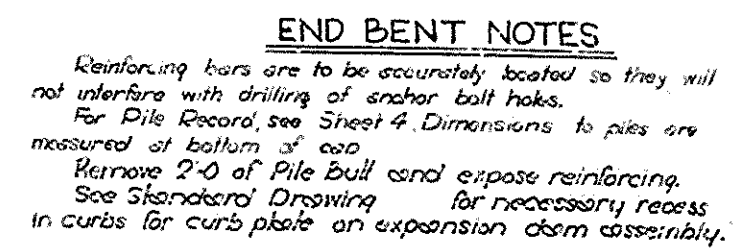
ELEVATION
END BENT I-N.B.L.

I-264 Over Garris Lane Sheet 5 of 19

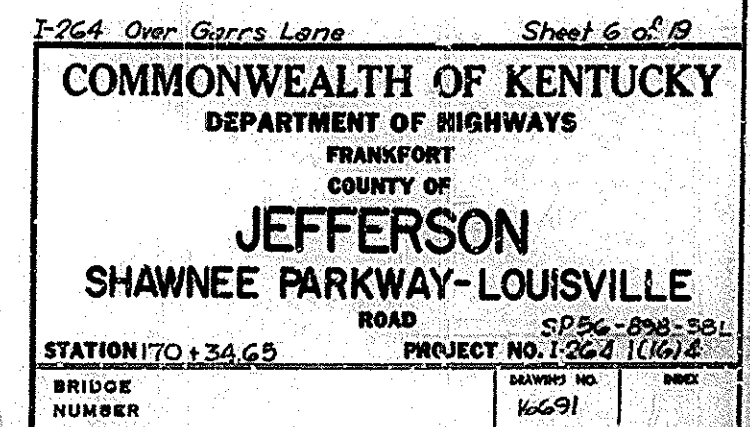
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
JEFFERSON
 SHAWNEE PARKWAY-LOUISVILLE
 ROAD

STATION 170+34.65 PROJECT NO. 264-1(16)18
 BRIDGE NUMBER 16691

NOTE: For Bill Reinforcement see Sh. 9.
For Anchor Bolt Hole Layout see Sheet 18.
For Detail of Exp. Dam over Median
see Sheet 16.
For Detail of End Bent Backfill see
Standard Drawing

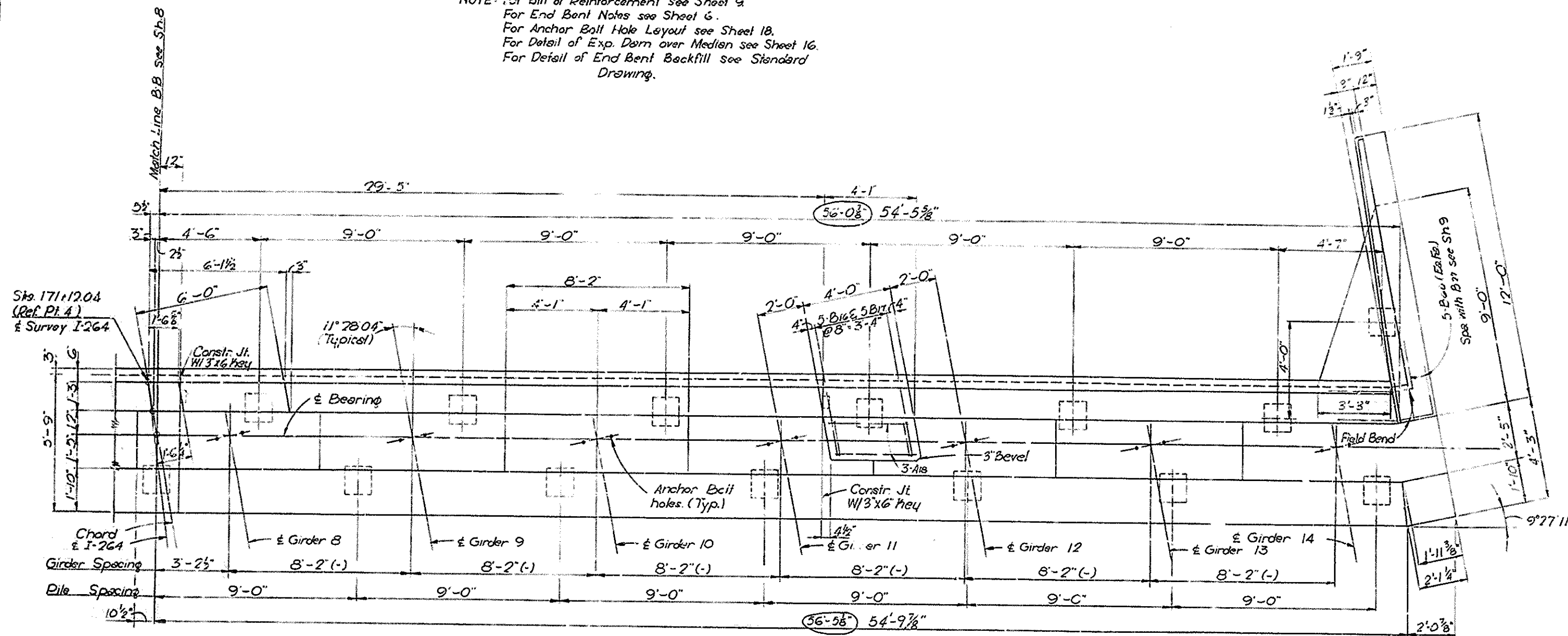


112-A28 & 112-A29 (Space with A30)
112-A30 @ 12" = 111'-0"

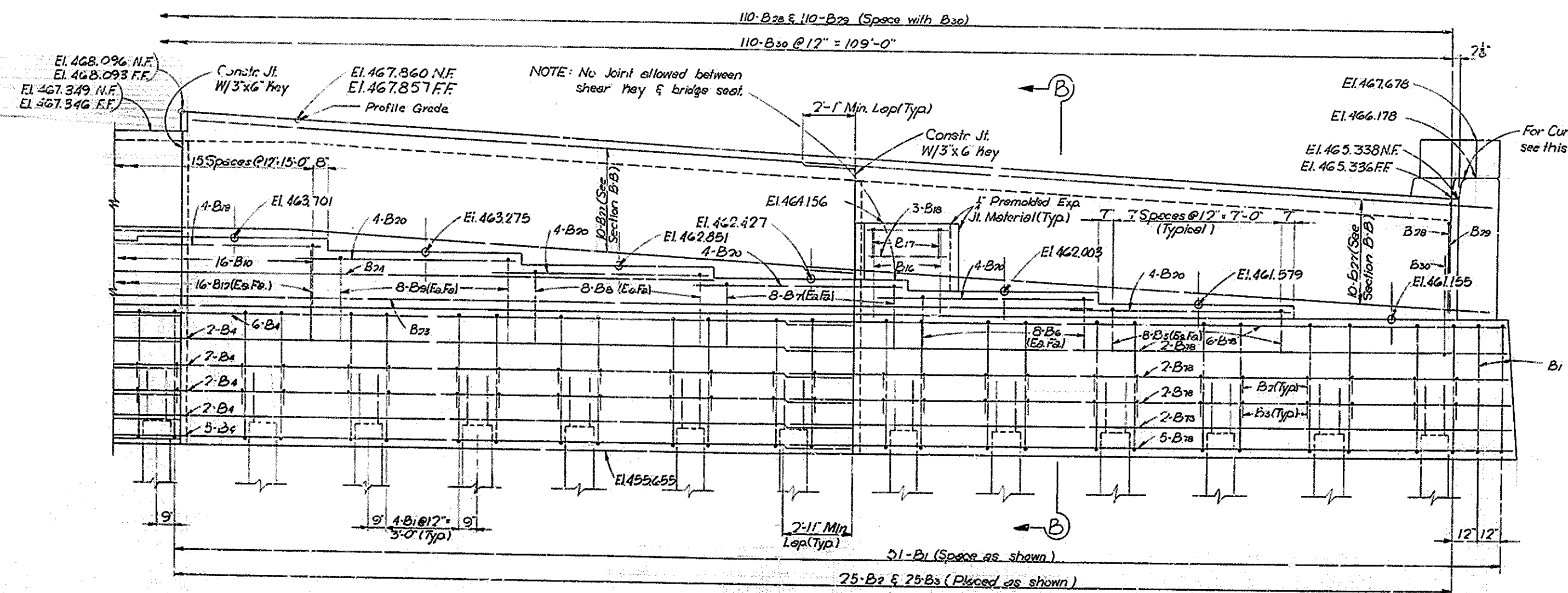


NOTE: For Bill of Reinforcement see Sheet 9.
For End Bent Notes see Sheet 6.
For Anchor Bolt Hole Layout see Sheet 18.
For Detail of Exp. Dorn over Median see Sheet 16.
For Detail of End Bent Backfill see Standard Drawing.

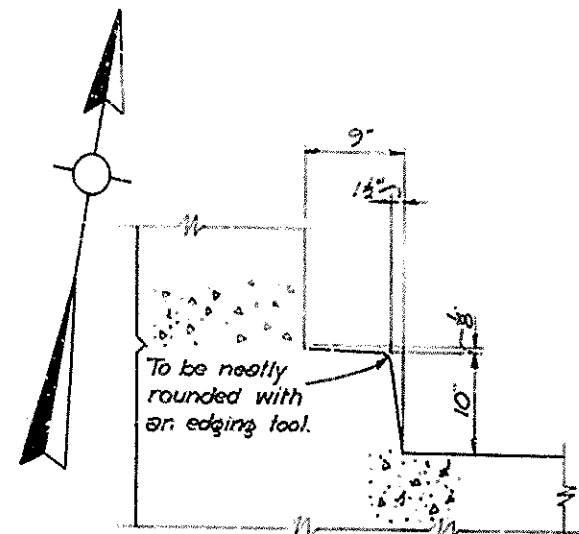
FED. ROAD DIST.	STATE	PRO. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



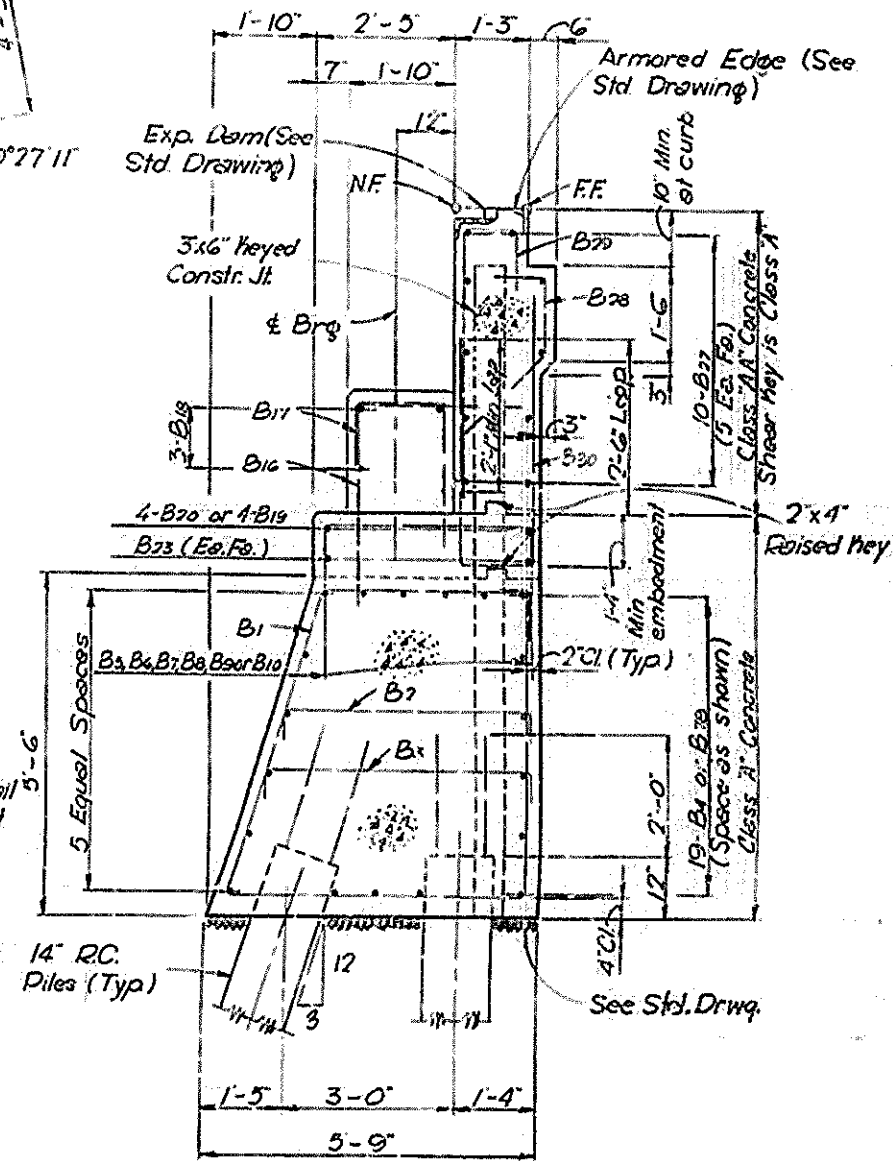
PLAN



ELEVATION
END BENT 2-NBL



TYPICAL CURB DETAIL

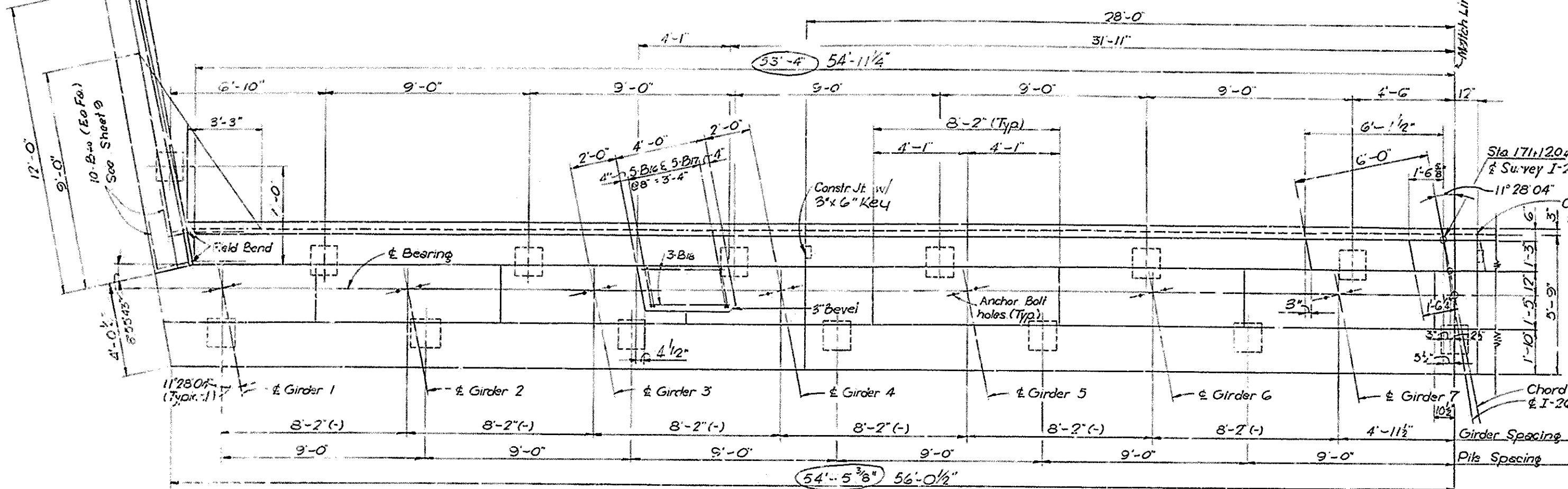


SECTION B-B

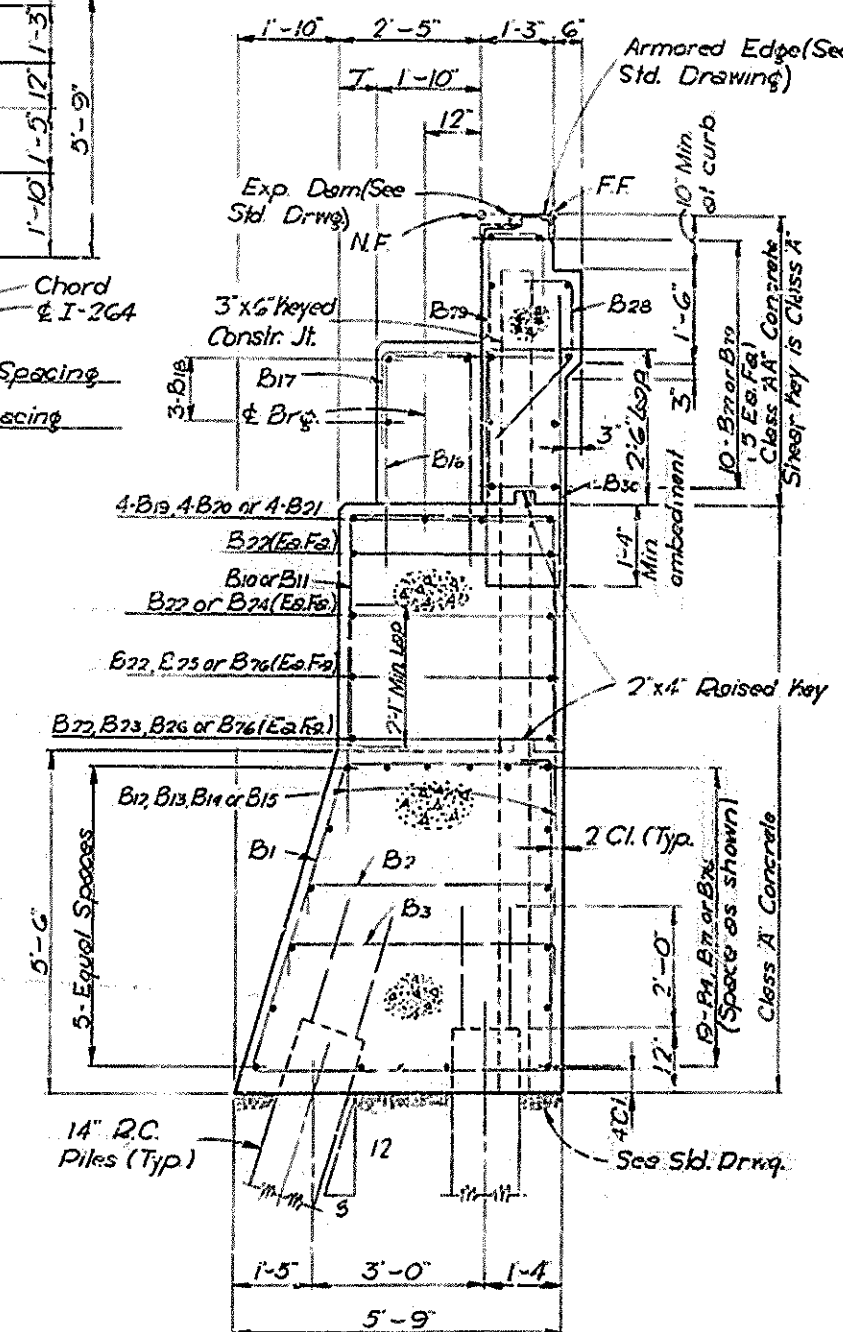
1-264 Over Garris Lane Sheet 7 of 19

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
SHAWNEE PARKWAY-LOUISVILLE
ROAD 5456-893-381
STATION 170+34.65 PROJECT NO. 1-264-1(16)E
BRIDGE NUMBER 16691

NOTE: For Bill of Reinforcement see Sheet 9.
For Anchor Bolt Hole Layout see Sheet 18.
For End Bent Notes see Sheet 6.
For Detail of Exp. Dam on Median see Sheet 16.
For Detail of End Bent Backfill see Standard Drawing



PLAN



SECTION A-A

I-264 Over Garris Lane Sheet 8 of 19

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

JEFFERSON

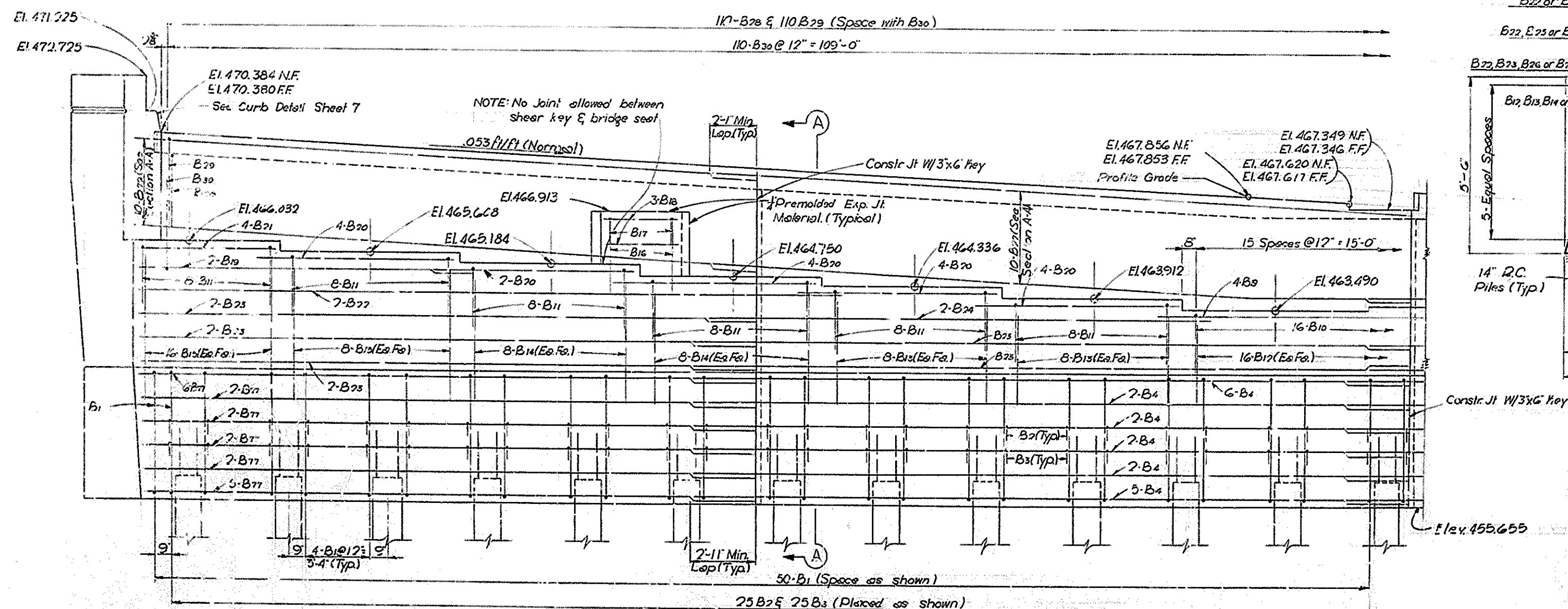
SHAWNEE PARKWAY-LOUISVILLE, 1

ROAD

SP56-898-32

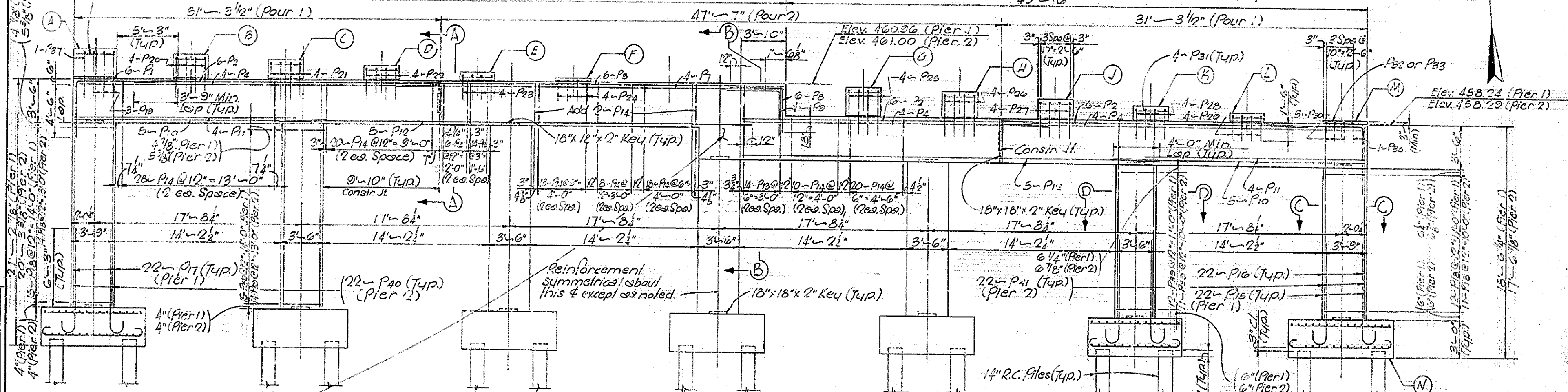
STATION 170+34.65 PROJECT NO. 1-264-1(1674

BRIDGE NUMBER	DRAWING NO. 16691	SHEET 2082
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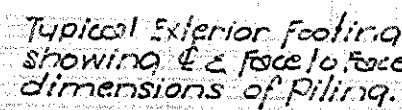


ELEVATION
END BENT 2-SBL

BILL OF REINFORCEMENT																	
END BENT 1																	
MARK	TYPE	NO.	LENGTH	LOCATION	S	B	C	D	MARK	TYPE	NO.	LENGTH	LOCATION	S	B	C	D
FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.		FT.	IN.	FT.	IN.	FT.	IN.
A1	1	5	10	1	4	4	0	6	B1	1	5	10	1	4	4	0	6
A2	2	5	10	2	4	4	0	6	B2	2	5	10	2	4	4	0	6
A3	3	5	10	3	4	4	0	6	B3	3	5	10	3	4	4	0	6
A4	4	5	10	4	4	4	0	6	B4	4	5	10	4	4	4	0	6
A5	5	5	10	5	4	4	0	6	B5	5	5	10	5	4	4	0	6
A6	6	5	10	6	4	4	0	6	B6	6	5	10	6	4	4	0	6
A7	7	5	10	7	4	4	0	6	B7	7	5	10	7	4	4	0	6
A8	8	5	10	8	4	4	0	6	B8	8	5	10	8	4	4	0	6
A9	9	5	10	9	4	4	0	6	B9	9	5	10	9	4	4	0	6
A10	10	5	10	10	4	4	0	6	B10	10	5	10	10	4	4	0	6
A11	11	5	10	11	4	4	0	6	B11	11	5	10	11	4	4	0	6
A12	12	5	10	12	4	4	0	6	B12	12	5	10	12	4	4	0	6
A13	13	5	10	13	4	4	0	6	B13	13	5	10	13	4	4	0	6
A14	14	5	10	14	4	4	0	6	B14	14	5	10	14	4	4	0	6
A15	15	5	10	15	4	4	0	6	B15	15	5	10	15	4	4	0	6
A16	16	5	10	16	4	4	0	6	B16	16	5	10	16	4	4	0	6
A17	17	5	10	17	4	4	0	6	B17	17	5	10	17	4	4	0	6
A18	18	5	10	18	4	4	0	6	B18	18	5	10	18	4	4	0	6
A19	19	5	10	19	4	4	0	6	B19	19	5	10	19	4	4	0	6
A20	20	5	10	20	4	4	0	6	B20	20	5	10	20	4	4	0	6
A21	21	5	10	21	4	4	0	6	B21	21	5	10	21	4	4	0	6
A22	22	5	10	22	4	4	0	6	B22	22	5	10	22	4	4	0	6
A23	23	5	10	23	4	4	0	6	B23	23	5	10	23	4	4	0	6
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A36	36	5	10	36	4	4	0	6	B36	36	5	10	36	4	4	0	6
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A38	38	5	10	38	4	4	0	6	B38	38	5	10	38	4	4	0	6
A39	39	5	10	39	4	4	0	6	B39	39	5	10	39	4	4	0	6
A40	40	5	10	40	4	4	0	6	B40	40	5	10	40	4	4	0	6
A41	41	5	10	41	4	4	0	6	B41	41	5	10	41	4	4	0	6
A42	42	5	10	42	4	4	0	6	B42	42	5	10	42	4	4	0	6
A43	43	5	10	43	4	4	0	6	B43	43	5	10	43	4	4	0	6
A44	44	5	10	44	4	4	0	6	B44	44	5	10	44	4	4	0	6
A45	45	5	10	45	4	4	0	6	B45	45	5	10	45	4	4	0	6
A46	46	5	10	46	4	4	0	6	B46	46	5	10	46	4	4	0	6
A47	47	5	10	47	4	4	0	6	B47	47	5	10	47	4	4	0	6
A48	48	5	10	48	4	4	0	6	B48	48	5	10	48	4	4	0	6
A49	49	5	10	49	4	4	0	6	B49	49	5	10	49	4	4	0	6
A50	50	5	10	50	4	4	0	6	B50	50	5	10	50	4	4	0	6
A51	51	5	10	51	4	4	0	6	B51	51	5	10	51	4	4	0	6
A52	52	5	10	52	4	4	0	6	B52	52	5	10	52	4	4	0	6
A53	53	5	10	53	4	4	0	6	B53	53	5	10	53	4	4	0	6
A54	54	5	10	54	4	4	0	6	B54	54	5	10	54	4	4	0	6
A55	55	5	10	55	4	4	0	6	B55	55	5	10	55	4	4	0	6
A56	56	5	10	56	4	4	0	6	B56	56	5	10	56	4	4	0	6
A57	57	5	10	57	4	4	0	6	B57	57	5	10	57	4	4	0	6
A58	58	5	10	58	4	4	0	6	B58	58	5	10	58	4	4	0	6
A59	59	5	10	59	4	4	0	6	B59	59	5	10	59	4	4	0	6
A60	60	5	10	60	4	4	0	6	B60	60	5	10	60	4	4	0	6
A61	61	5	10	61	4	4	0	6	B61	61	5	10	61	4	4	0	6
A62	62	5	10	62	4	4	0	6	B62	62	5	10	62	4	4	0	6
A63	63	5	10	63	4	4	0	6	B63	63	5	10	63	4	4	0	6
A64	64	5	10	64	4	4	0	6	B64	64	5	10	64	4	4	0	6
A65	65	5	10	65	4	4	0	6	B65	65	5	10	65	4	4	0	6
A66	66	5	10	66	4	4	0	6	B66	66	5	10	66	4	4	0	6
A67	67	5	10	67	4	4	0	6	B67	67	5	10	67	4	4	0	6
A68	68	5	10	68	4	4	0	6	B68	68	5	10	68	4	4	0	6
A69	69	5	10	69	4	4	0	6	B69	69	5	10	69	4	4	0	6
A70	70	5	10	70	4	4	0	6	B70	70	5	10	70	4	4	0	6
A71	71	5	10	71	4	4	0	6	B71	71	5	10	71	4	4	0	6
A72	72	5	10	72	4	4	0	6	B72	72	5	10	72	4	4	0	6
A73	73	5	10	73	4	4	0	6	B73	73	5	10	73	4	4	0	6
A74	74	5	10	74	4	4	0	6	B74	74	5	10	74	4	4	0	6
A75	75	5	10	75	4	4	0	6	B75	75	5	10	75	4	4	0	6
A76	76	5	10	76	4	4	0	6	B76	76	5	10	76	4	4	0	6
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A78	78	5	10	78	4	4	0	6	B78	78	5	10	78	4	4	0	6
A79	79	5	10	79	4	4	0	6	B79	79	5	10	79	4	4	0	6
A80	80	5	10	80	4	4	0	6	B80	80	5	10	80	4	4	0	6
A81	81	5	10	81	4	4	0	6	B81	81	5	10	81	4	4	0	6
A82	82	5	10	82	4	4	0	6	B82	82	5	10	82	4	4	0	6
A83	83	5	10	83	4	4	0	6	B83	83	5	10	83	4	4	0	6
A84	84	5	10	84	4	4	0	6	B84	84	5	10	84	4	4	0	6
A85	85	5	10	85	4	4	0	6	B85	85	5	10	85	4	4	0	6
A86	86	5	10	86	4	4	0	6	B86	86	5	10	86	4	4	0	6
A87	87	5	10	87	4	4	0	6	B87	87	5	10	87	4	4	0	6
A88	88	5	10	88	4	4	0	6	B88	88	5	10	88	4	4	0	6
A89	89	5	10	89	4	4	0	6	B89	89	5	10	89	4	4	0	6
A90	90	5	10	90	4	4	0	6	B90	90	5	10	90	4	4	0	6
A91	91	5	10	91	4	4	0	6	B91	91	5	10	91	4	4	0	6
A92	92	5	10	92	4	4	0	6	B92	92	5	10	92	4	4	0	6
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A95	95	5	10	95	4	4	0	6	B95	95	5	10	95	4	4	0	6
A96	96	5	10	96	4	4	0	6	B96	96	5	10	96	4	4	0	6
A97	97	5	10	97	4	4	0	6	B97	97	5	10	97	4	4	0	6
A98	98	5	10	98	4	4	0	6	B98	98	5	10	98	4	4	0	6
A99	99	5	10	99	4	4	0	6									



Note: The concrete in the center section of the Cap shall not be poured until the end sections have properly cured.



NOTE — All Piling dimensions are w/ bottom of footing

Typical Interior Footing
showing dimensions
of Piling.

Typical Interior Piling
Showing Face to Face
Dimensions of Piling.

Typical Interior Ceiling
showing Reinforcement

Typical Exterior
Footing showing
Reinforcement

FOOTING PLAN

PIERS 1 & 2

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
JEFFERSON	
SHAWNEE PARKWAY-LOUISVILLE	
ROAD	
STATION 170+31.65	PROJECT NO. SP56-898 1-264 (16)4
BRIDGE NUMBER	DRAWING NO. 16631
	DATE

BILL OF REINFORCEMENT

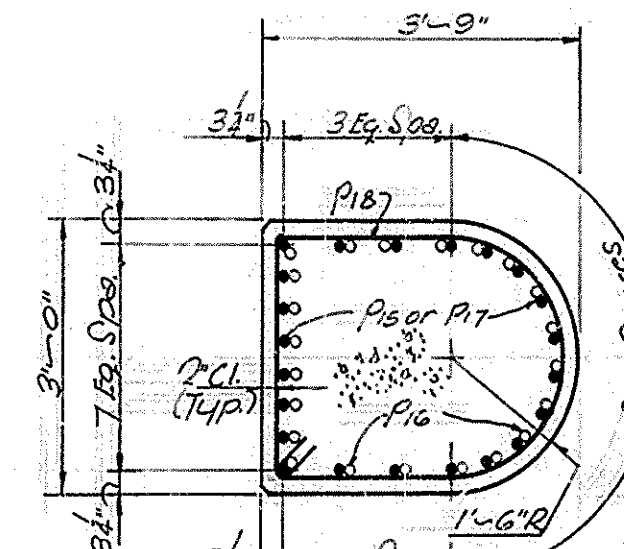
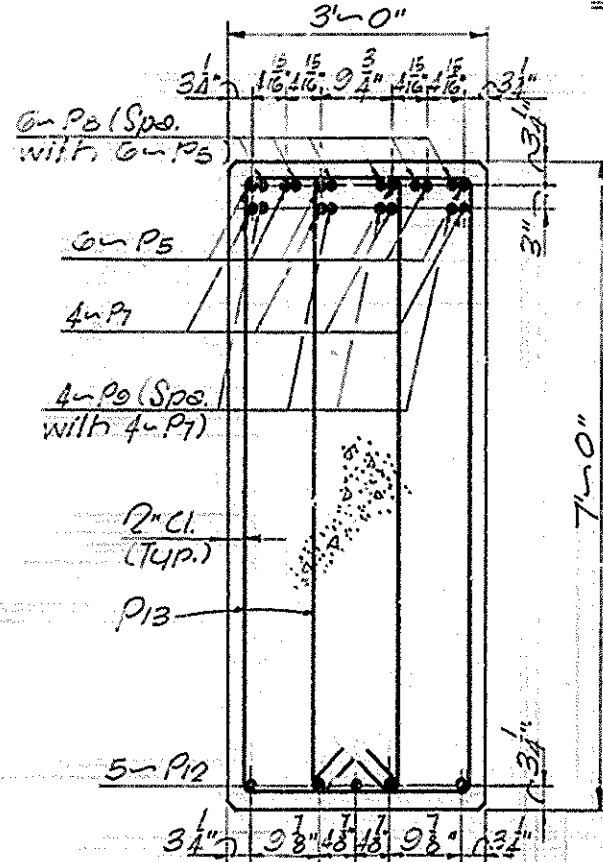
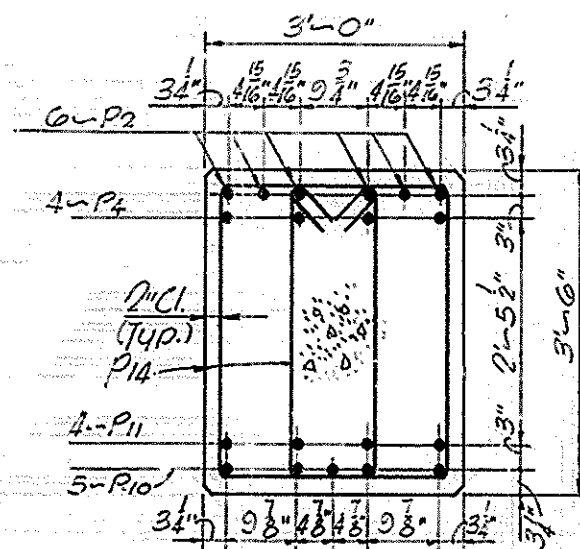
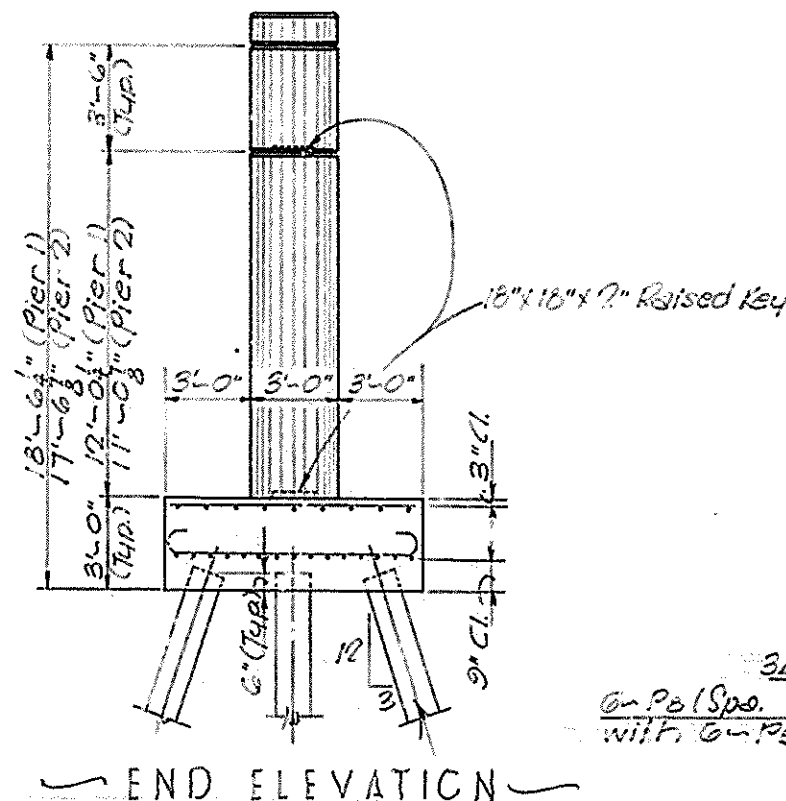
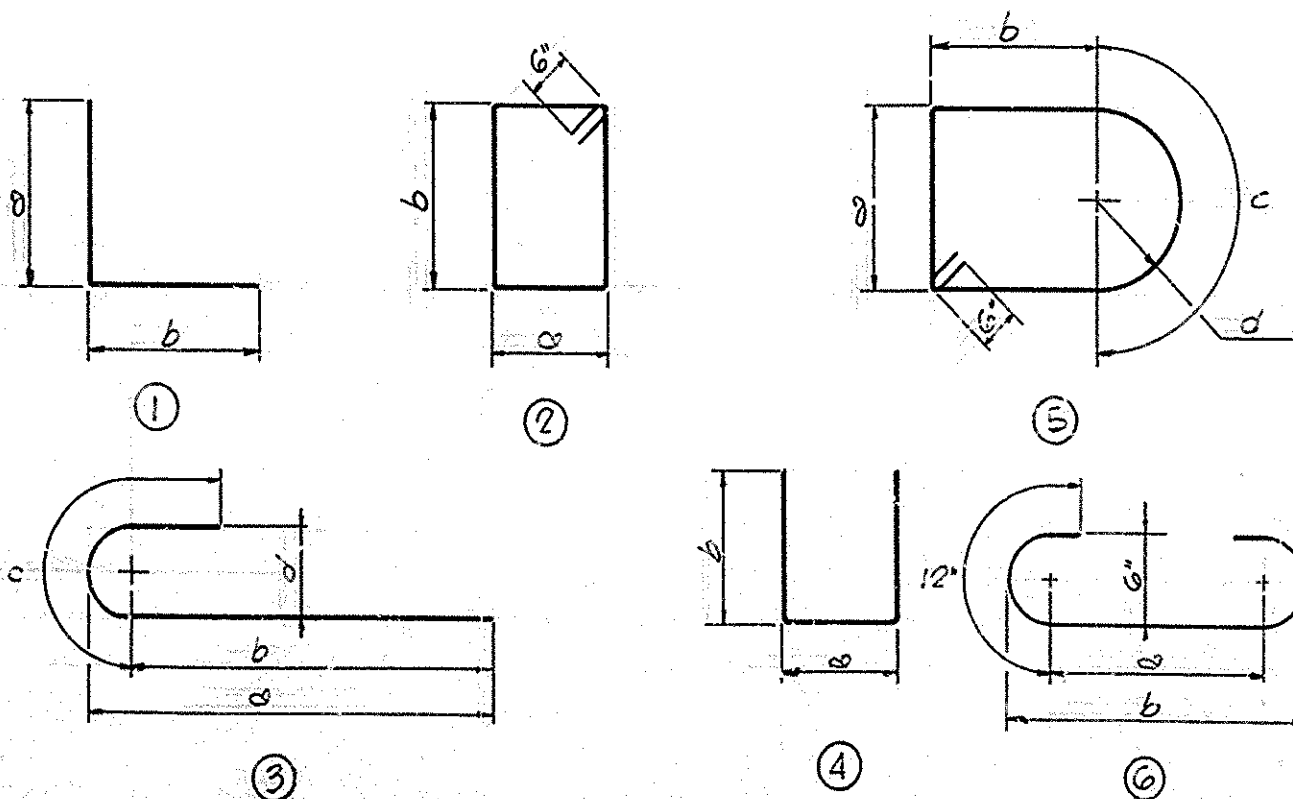
PIER 1

MARK	TYPE	SIZE	N _o	LENGTH FT. IN.	LOCATION	a FT. IN.	b FT. IN.	c FT. IN.	d FT. IN.					
P ₁	Str.	11	12	13	Cap	4	10	6	10					
P ₂	Str.	11	10	26	1									
P ₃	Str.	11	10	26	1									
P ₄	Str.	9	13	30	Cap									
P ₅	Str.	11	6	32	11									
P ₆	Str.	9	10	27	USED									
P ₇	Str.	9	4	32	11									
P ₈	Str.	11	6	32	Cap									
P ₉	Str.	11	6	32	Cap	4	8	4	0					
P ₁₀	Str.	9	4	32	11	4	8	4	0					
P ₁₁	Str.	9	10	21	2									
P ₁₂	Str.	8	8	18	8									
P ₁₃	Str.	9	10	39	10									
P ₁₄	Str.	4	14	13	1	1	0%	5	10					
P ₁₅	Str.	4	2	12	10	9	1	0%	3	1%				
P ₁₆	Str.	11	66	15	3	Column								
P ₁₇	Str.	11	154	10	2		8	9	8	2	2	0	1	2
P ₁₈	Str.	11	88	17	11									
P ₁₉	Str.	4	27	11	9		2	8	2	1	4	2%	1	4
P ₂₀	Str.	4	3	10	1	Red	2	9	3	9				
P ₂₁	Str.	4	4	4	9	3	2	9	3	4				
P ₂₂	Str.	4	4	4	8	5	2	9	2	11				
P ₂₃	Str.	4	4	4	7	7	2	9	2	6				
P ₂₄	Str.	4	4	4	6	9	2	9	2	1				
P ₂₅	Str.	4	4	4	5	10	2	9	1	7%				
P ₂₆	Str.	4	4	4	11	7	2	9	4	6				
P ₂₇	Str.	4	4	4	10	9	2	9	4	1				
P ₂₈	Str.	4	4	4	9	11	2	9	3	8				
P ₂₉	Str.	4	4	4	9	0	2	9	3	2%				
P ₃₀	Str.	4	4	4	8	2	2	9	2	9%				
P ₃₁	Str.	4	3	7	4		2	9	2	4%				
P ₃₂	Str.	4	4	4	2	9								
P ₃₃	Str.	4	4	4	3	5								
P ₃₄	Str.	6	120	10	2	fooling	8	2	8	8				
P ₃₅	Str.	6	10	9	2	fooling	7	2	7	8				
P ₃₆	Str.	4	1	9	10	Red	2	6	3	9				
P ₃₇	Str.	4	1	7	1		2	6	2	4%				
P ₃₈	Str.	4	66	12	5	Column	2	8	3	2				
P ₃₉	Str.	11	88	17	11	USED								
P ₄₀	Str.	11	66	14	3	USED								
P ₄₁	Str.	11	66	14	3	USED								
P ₄₂	Str.	6	76	8	8	fooling								
P ₄₃	Str.	6	45	7	8	fooling								

PIER 2

MARK	TYPE	SIZE	N _o	LENGTH FT. IN.	LOCATION	a FT. IN.	b FT. IN.	c FT. IN.	d FT. IN.					
P ₁	Str.	11	12	13	Cap	4	10	6	10					
P ₂	Str.	11	10	26	1									
P ₃	Str.	11	10	26	1									
P ₄	Str.	9	13	30	Cap									
P ₅	Str.	11	6	32	11									
P ₆	Str.	9	10	27	USED									
P ₇	Str.	9	4	32	11									
P ₈	Str.	11	6	32	Cap									
P ₉	Str.	11	6	32	Cap	4	8	4	0					
P ₁₀	Str.	9	4	32	11	4	8	4	0					
P ₁₁	Str.	9	10	21	2									
P ₁₂	Str.	8	8	18	8									
P ₁₃	Str.	9	10	39	10									
P ₁₄	Str.	4	14	13	1	1	0%	5	10					
P ₁₅	Str.	4	2	12	10	9	1	0%	3	1%				
P ₁₆	Str.	11	154	10	2	Column								
P ₁₇	Str.	11	88	17	11		8	9	8	2	2	0	1	2
P ₁₈	Str.	4	27	11	9		2	8	2	1	4	2%	1	4
P ₁₉	Str.	4	3	10	1	Red	2	9	3	9				
P ₂₀	Str.	4	4	4	9	3	2	9	3	4				
P ₂₁	Str.	4	4	4	8	5	2	9	2	11				
P ₂₂	Str.	4	4	4	7	7	2	9	2	6				
P ₂₃	Str.	4	4	4	6	9	2	9	2	1				
P ₂₄	Str.	4	4	4	5	10	2	9	1	7%				
P ₂₅	Str.	4	4	4	11	7	2	9	4	6				
P ₂₆	Str.	4	4	4	10	9	2	9	4	1				
P ₂₇	Str.	4	4	4	9	11	2	9	3	8				
P ₂₈	Str.	4	4	4	9	0	2	9	3	2%				
P ₂₉	Str.	4	4	4	8	2	2	9	2	9%				
P ₃₀	Str.	4	3	7	4		2	9	2	4%				
P ₃₁	Str.	4	4	4	2	9								
P ₃₂	Str.	4	4	4	3	5								
P ₃₃	Str.	6	120	10	2	fooling	8	2	8	8				
P ₃₄	Str.	6	10	9	2	fooling	7	2	7	8				
P ₃₅	Str.	4	1	9	10	Red	2	6	3	9				
P ₃₆	Str.	4	1	7	1		2	6	2	4%				
P ₃₇	Str.	4	66	12	5	Column	2	8	3	2				
P ₃₈	Str.	11	88	17	11	USED								
P ₃₉	Str.	11	66	14	3	USED								
P ₄₀	Str.	6	76	8	8	fooling								
P ₄₁	Str.	6	45	7	8	fooling								

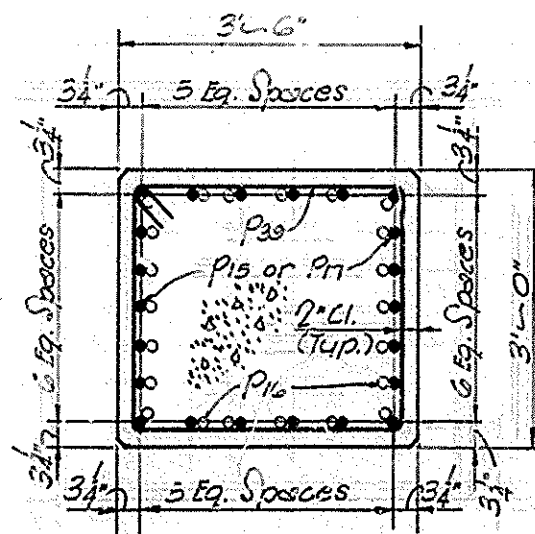
BAR TYPES



SECTION A-A

SECTION B-B

SECTION C-C



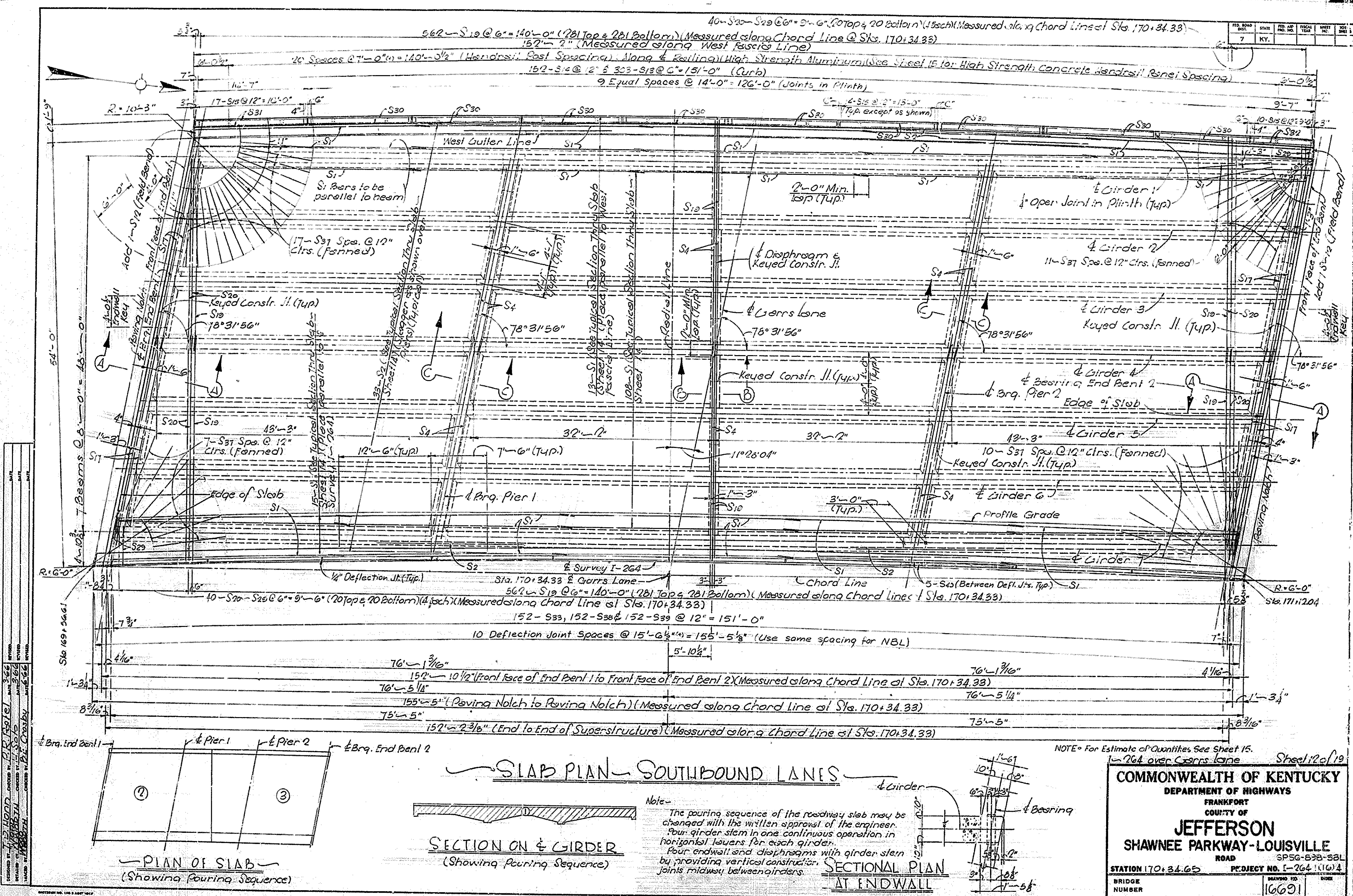
SECTION D-D

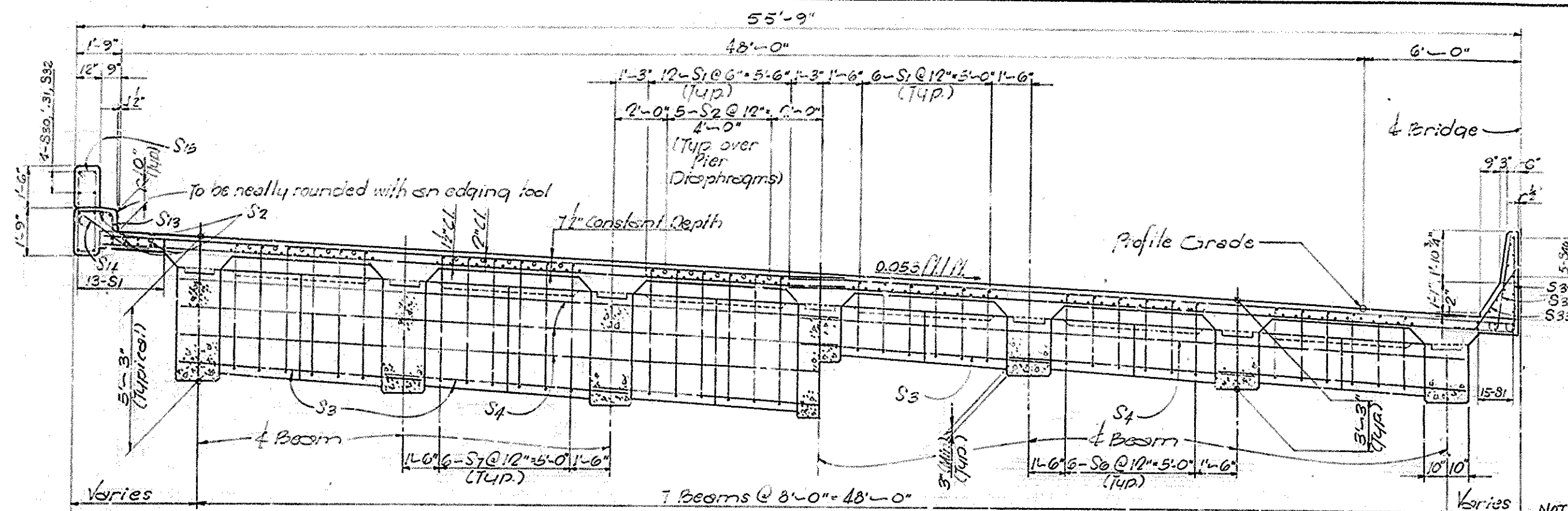
ESTIMATE OF QUANTITIES

ITEM	UNIT	QUANTITIES
CONCRETE, CLASS 'A'	CY.	144.0 141.3
REINFORCEMENT	LBS.	38,726 37,890
STRUCTURE EXCAVATION	C.Y.	194.4 194.4
14" R.L. PILES	L.F.	1327 1327

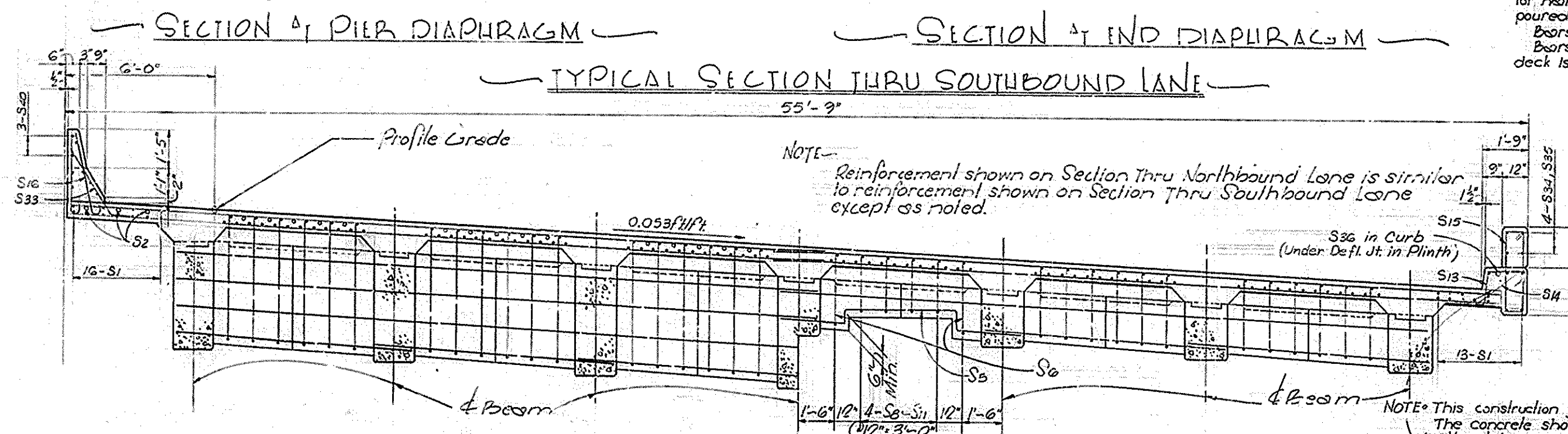
1-264 over Cross Lane Sheet 11 of 19

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
JEFFERSON
 SHAWNEE PARKWAY-LOUISVILLE
 ROAD
 STATION 170+34.65 PROJECT NO. 1-264 (1964)
 BRIDGE NUMBER 16691

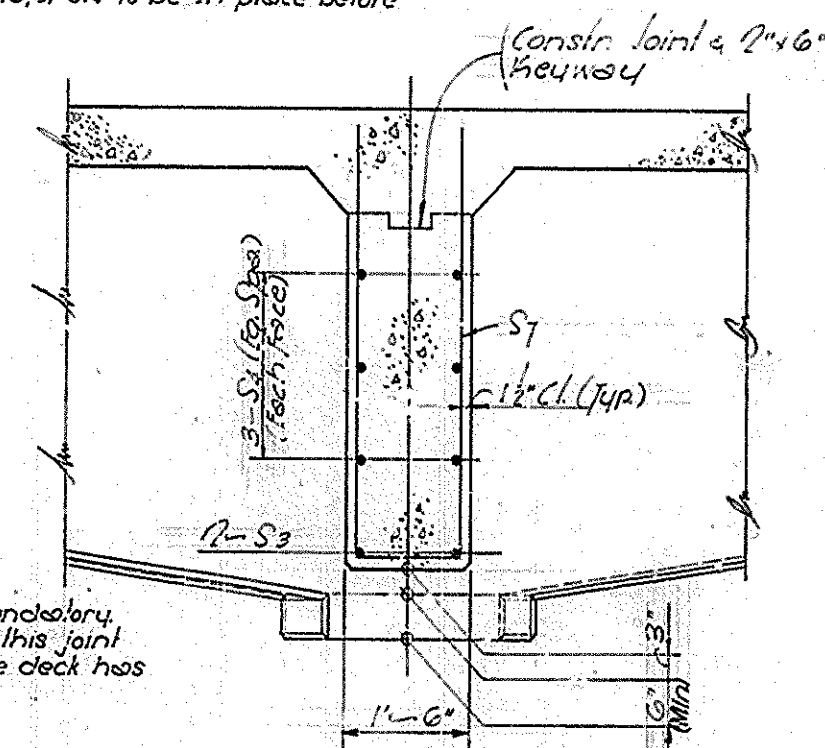




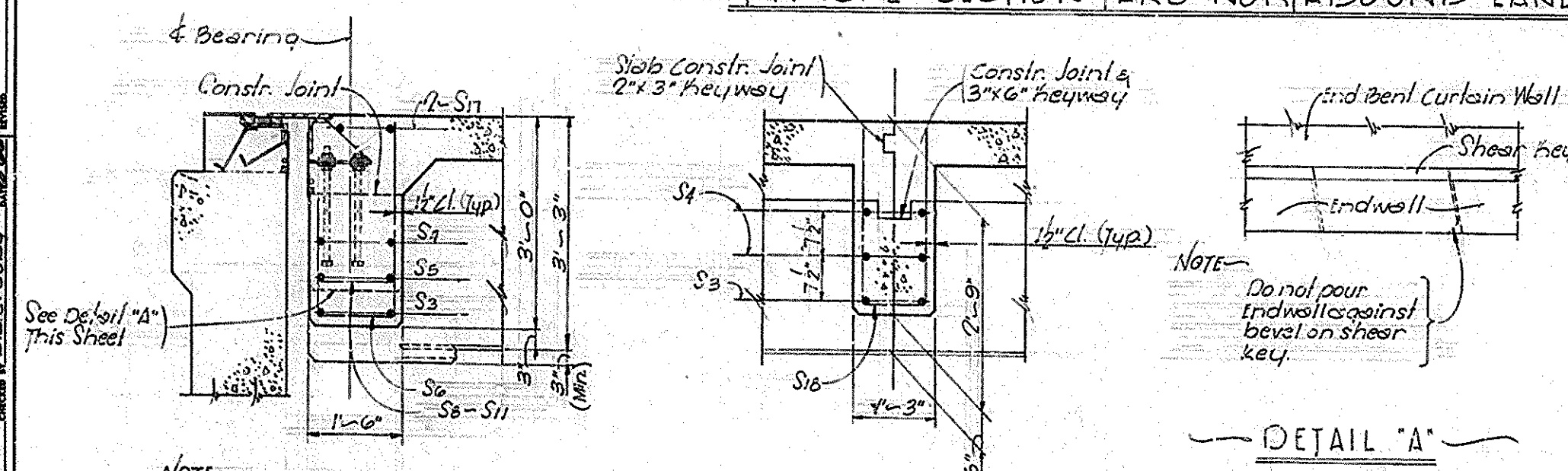
NOTE: Anchor bolts for handrail or anchor bars for handrail to be in place before plinth is poured.
Beams S15 to be in place before curb is poured.
Beams S13, S33, S16, or S14 to be in place before deck is poured.



NOTE: Reinforcement shown on Section Thru Northbound Lane is similar to reinforcement shown on Section Thru Southbound Lane except as noted.



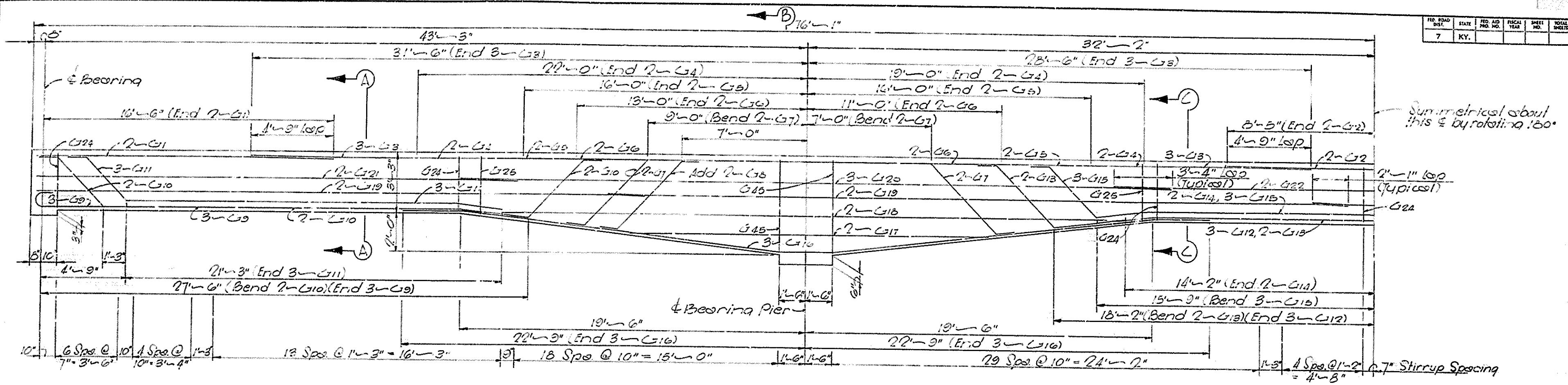
SECTION A1 PIER DIAPHRAGM
SECTION A2 END DIAPHRAGM
TYPICAL SECTION THRU NORTHBOUND LANE



NOTE: Do not pour endwall against bevel on shear key.

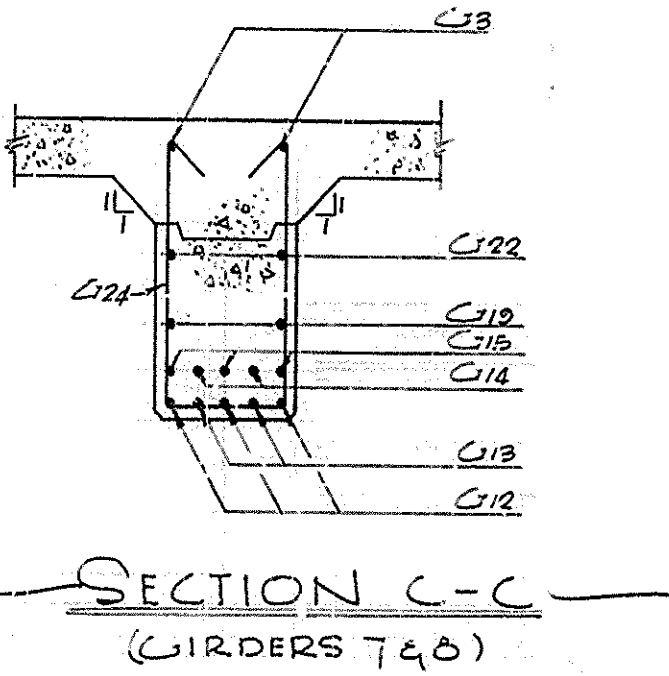
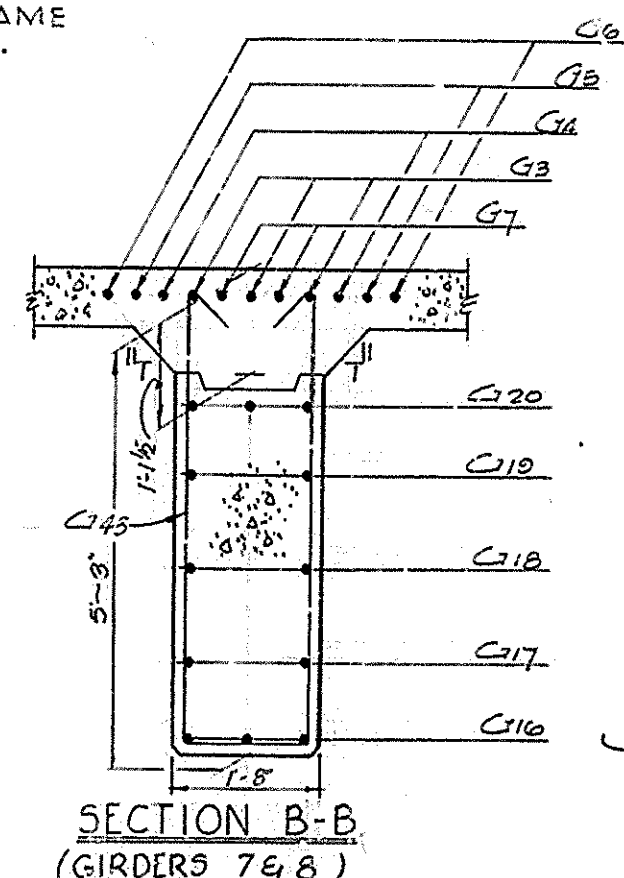
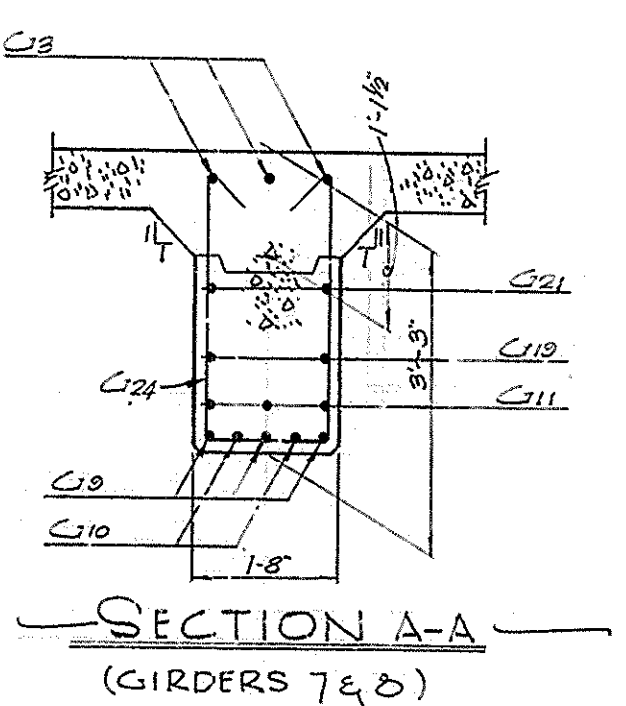
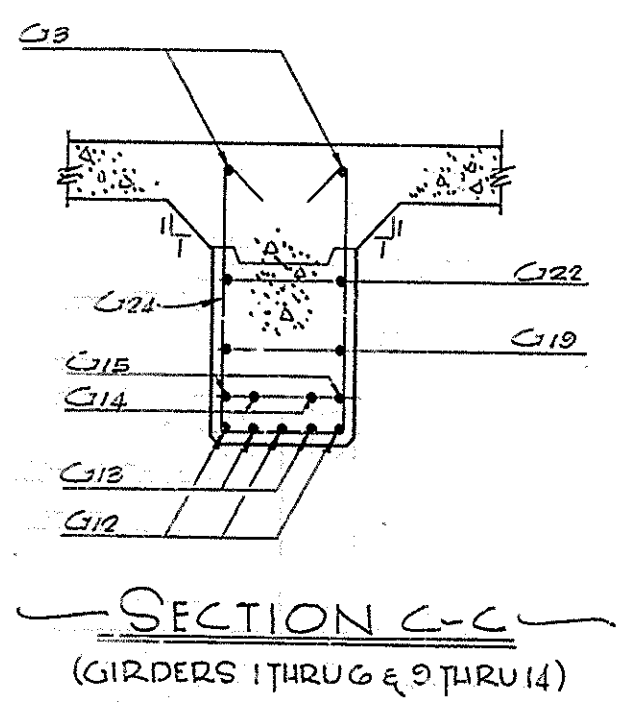
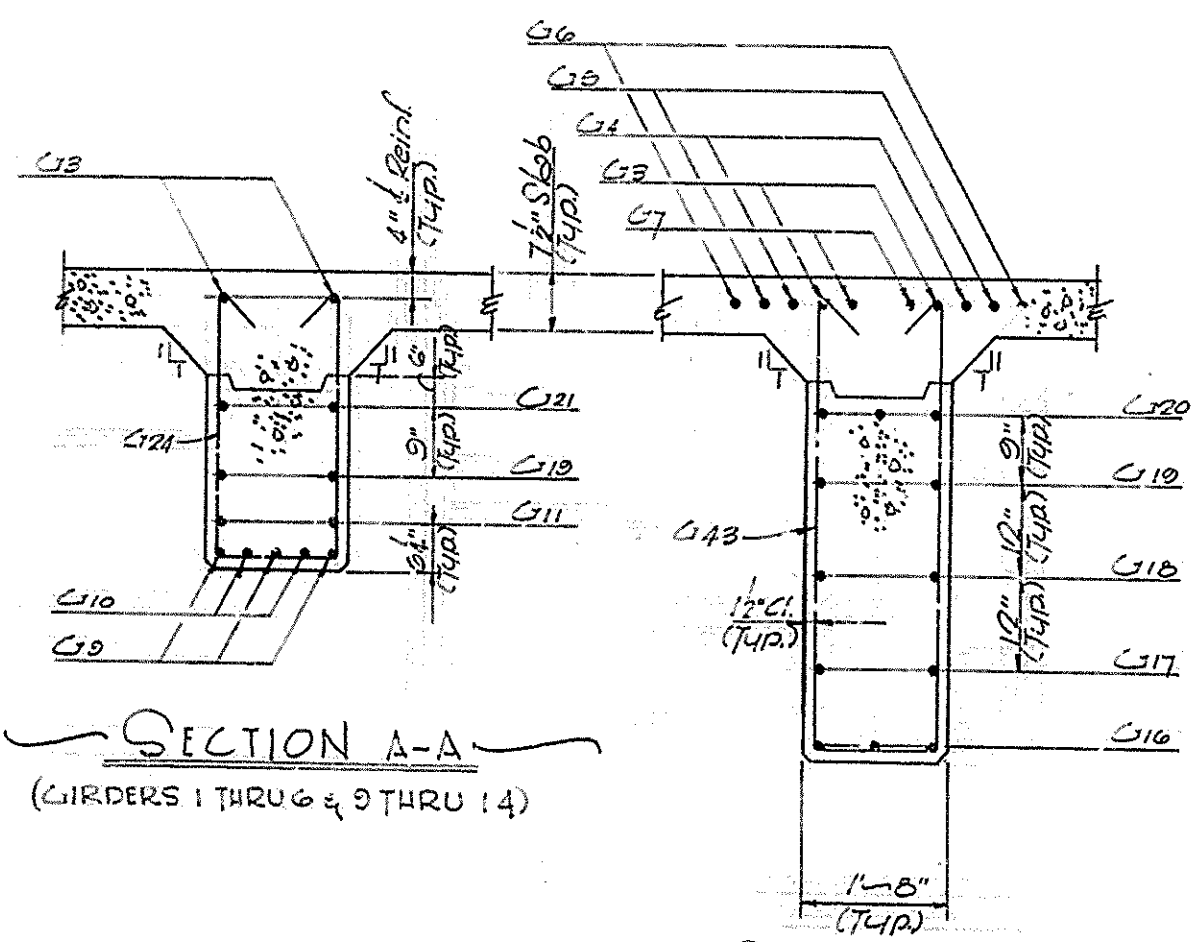
NOTE: For dimensions, steel sizes and related pertinent data, see KSH Standard Sheet (For Expansion Dam)

SECTION A-A
SECTION B-B



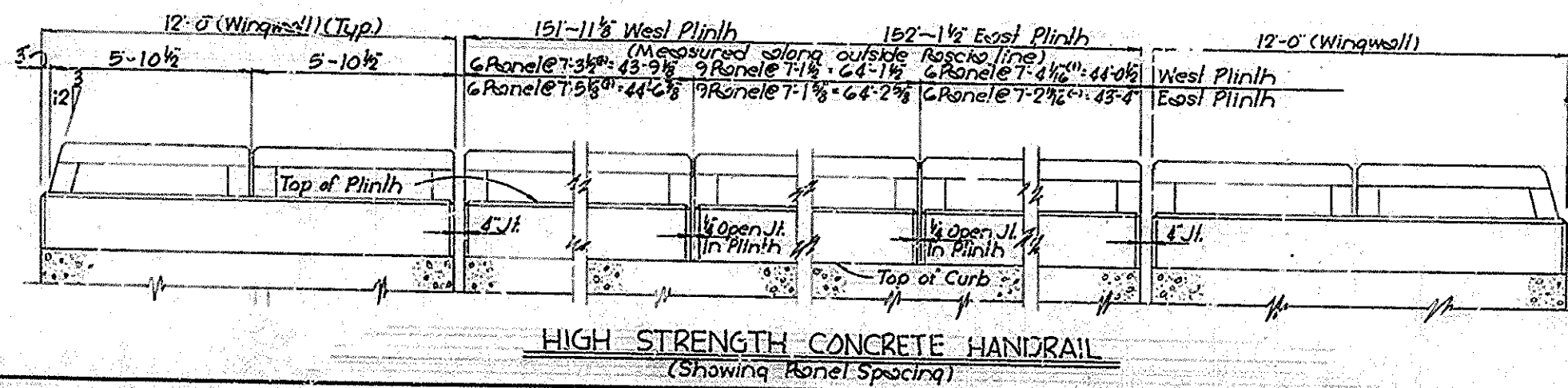
GIRDER ELEVATION

GIRDERS 7 & 8 SHOWN. GIRDERS 1 THRU 6 & 9 THRU 14 SAME EXCEPT AS SHOWN IN SECTIONS A-A, B-B & C-C.



SECTION B-B

(GIRDERS 1 THRU 6 & 9 THRU 14)

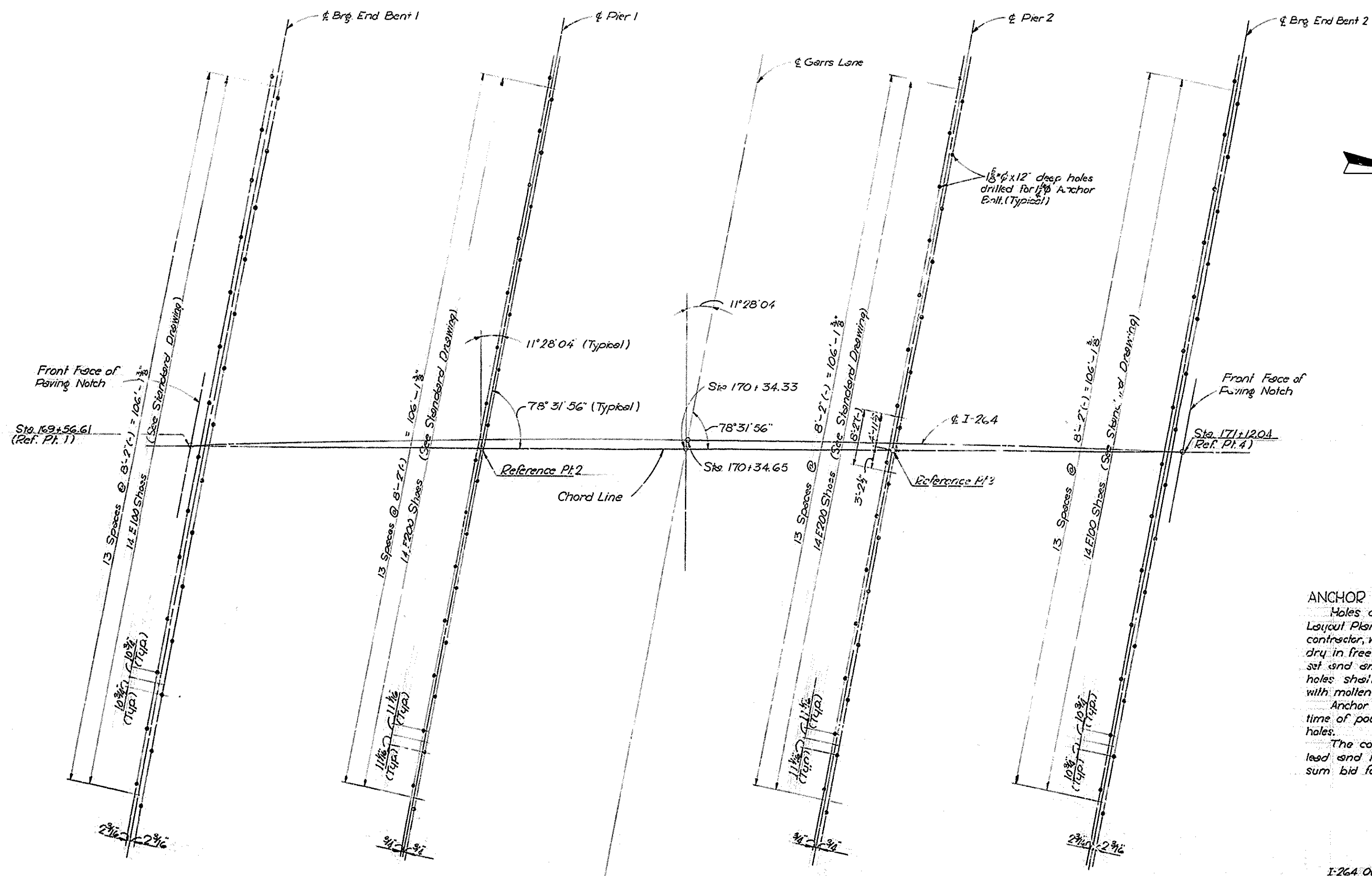


ESTIMATE OF QUANTITIES:		
ITEM	QUANTITE	UNIT.
CLASS "AA" CONCRETE		C.Y.
REINFORCEMENT		LBS.
PROTECTIVE COATING		S.Y.

TABLE OF REACTIONS				
	END BENT		PIER	
	1-6	9-14	1-6	9-14
GIRDERS	1-6	9-14	1-6	9-14
DEAD LOAD	25.7	23.5	124.7	113.7
LIVE LOAD & IMPACT	51.1	66.9	67.6	88.3
TOTAL	76.8	90.4	192.3	202.0

i-264 over Garra line Sheet 13 of 19

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
SHAWNEE PARKWAY-LOUISVILLE
ROAD
STATION 170+34.65
PROJECT NO. 1224 (116) 3
BRIDGE NUMBER 16691



ANCHOR BOLTS

Holes of size and depth shown on Anchor Bolt Layout Plan shall be drilled for anchor bolts by the contractor, who shall be responsible for keeping holes dry in freezing weather. After base plates are properly set and anchor bolts are placed in drilled holes, the holes shall be filled flush with top of base plates with molten lead.

Anchor bolts shall be heated to a blue heat at time of pouring to assure flow of lead to bottom of holes.

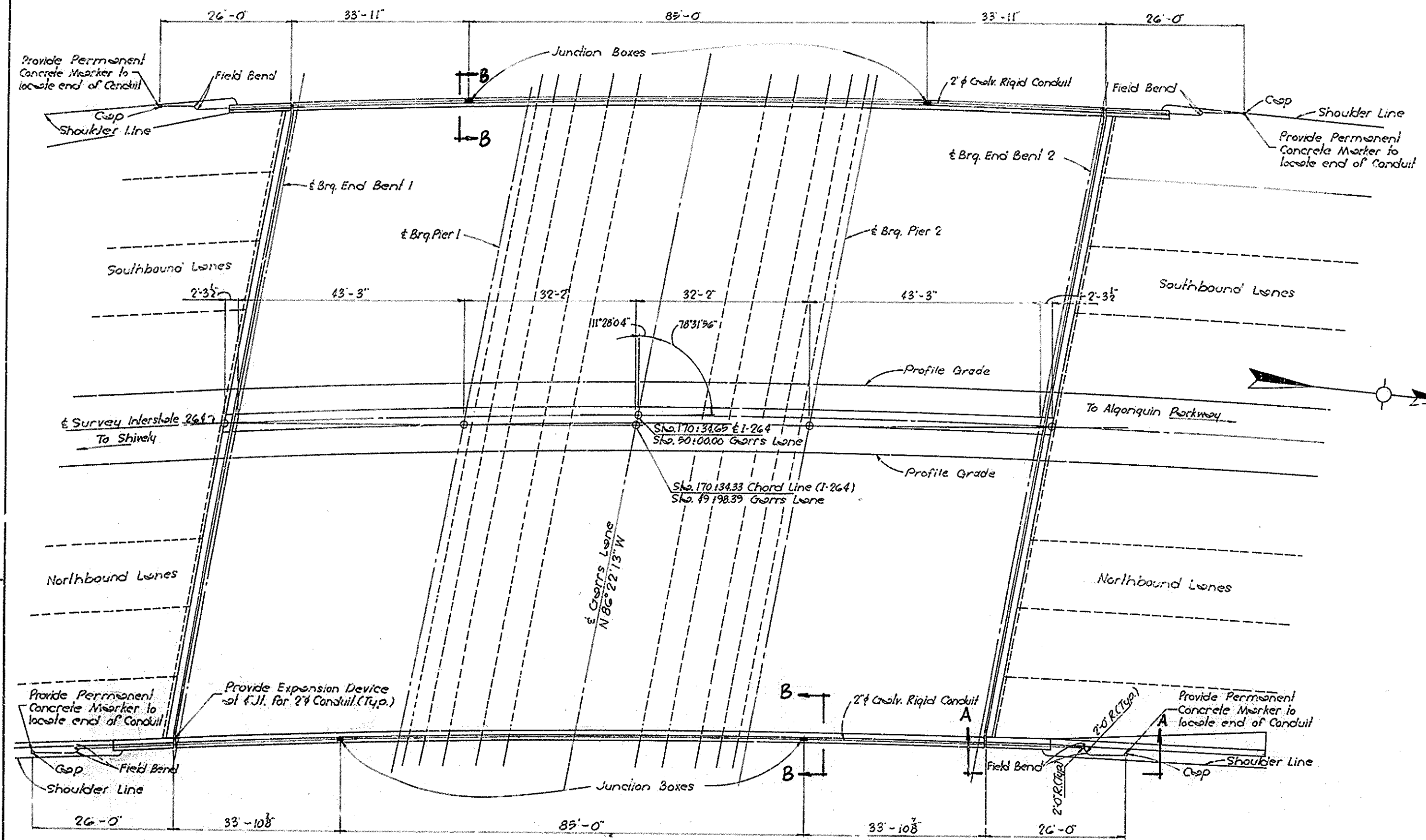
The cost of drilling anchor bolt holes, furnishing lead and filling holes shall be included in the lump sum bid for Structural Steel.

SHOE WEIGHTS				
ASSEMBLY	NO.	WT. EA.	WT.	REFERENCE
E100	28	271	7588	Std. Drawg.
E200	14	488	6832	Std. Drawg.
F200	14	438	6132	Std. Drawg.
TOTALS			20552	

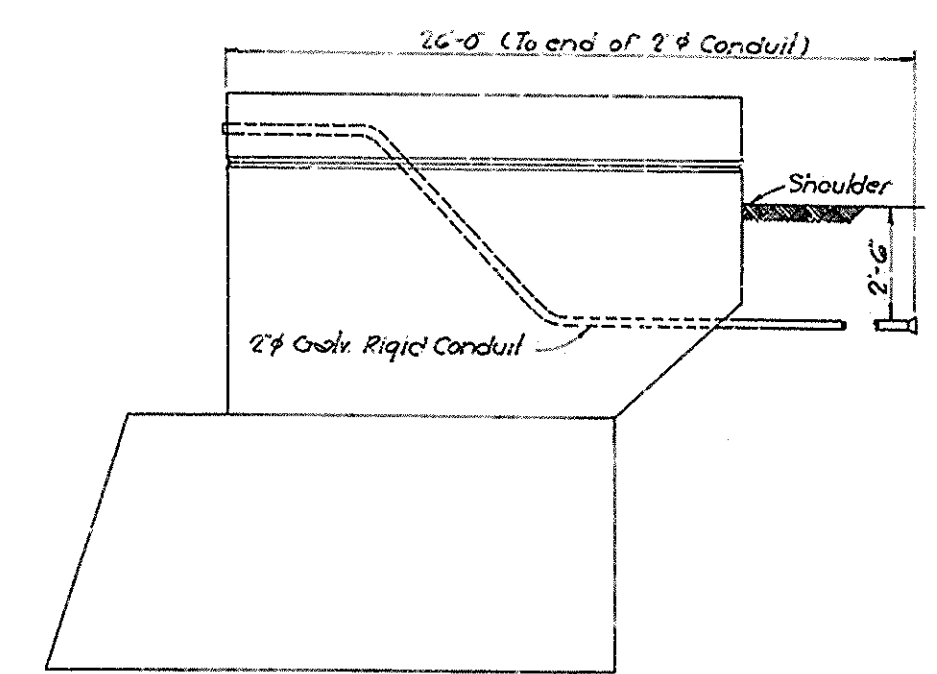
ANCHOR BOLT LAYOUT S.B.L. & N.B.L.

I-264 Over Garris Lane		Sheet 18 of 19	
COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS FRANKFORT COUNTY OF JEFFERSON SHAWNEE PARKWAY-LOUISVILLE ROAD			
STATION 170+34.65		PROJECT NO. I-264 (1616)/	
BRIDGE NUMBER	DRAWING NO.	INDEX	
	16071		

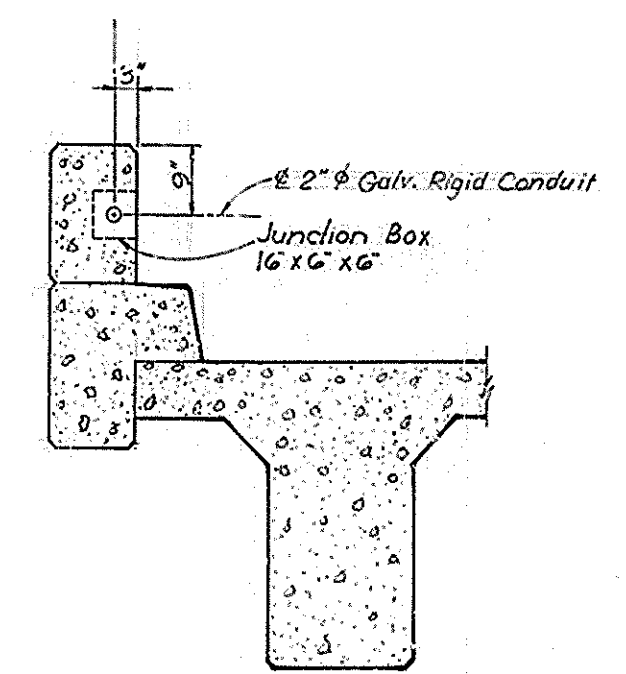
PRG. ROAD DIST.	STATE	PRG. AND DIST.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY.				



PLAN



ELEVATION A-A



SECTION B-B

NOTE--
The contractor shall mark all terminal points of transverse conduit crossing under pavement or shoulders. The marker shall consist of a 4" x 4" x 36" reinforced concrete post with four #4 deformed reinforcing steel rods and a 2" brass disc cast in the end of the post and inscribed "END OF DUCT." Marker to be 2" above grade with disc exposed.
Reinforcing steel shall be placed at field bend so as not to interfere with Junction Boxes.

ESTIMATE OF QUANTITIES

2" Galv. Rigid Conduit	418 Lin. Ft.
16" x 6" x 6" Junction Boxes (OZ Electrical Type VU, Spring City Elec. Co. Type IR, Home Elec. Products Co. Type HQ 200 or approved equal)	4 each
Expansion Fitting (Crouse-Hinds JIC 41 * with GC 100 grounding strap or approved equal)	4 each
2" Galv. Conduit Coups	4 each
Permanent Concrete Markers	4 each
* OZ Elec. Co. Type EX 200 with BJ 1520-24, Spring City Elec. Co. Type EF 200 with BJ 200 or approved equal.	

ELECTRICAL LAYOUT

1-264 Over Garrs Lane Sheet 19 of 19

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
JEFFERSON
SHAWNEE PARKWAY-LOUISVILLE
ROAD SP5C-898-3BL
STATION 170+34.65 PROJECT NO. 1-264-1(16)4
BRIDGE NUMBER DRAWING NO. 16291 SHEET

DESIGNED BY: HSI/1
CHECKED BY: HSI/1
DATE: 11-66
REVISIONS: HSI/1
DATE: 11-66
TRACED BY: HSI/1
DATE: 11-66