

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

DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
TRIGG COUNTY
PADUCAH-TENN. STATE LINE ROAD
KY. 124 OVER I-24

Updated 11-7-73
JAG

PLANS PREPARED BY
 REID, QUEBEL, THOMPSON
 AND ASSOCIATES, INC.
 DATE: 11-7-73
 DRAWN BY: JAG
 CHECKED BY: JEC
 APPROVED BY: JEC

Item	Sheet No.	Concrete		Steel Reinforcement (Lbs.)	Structural Steel (Lump Sum)	Bronze Bearing Plates (Lbs.)	Neoprene Expansion Joint (Lin. Ft.)	Epoxy Coated Steel Reinf. (Lbs.)	Test Piles (Lin. Feet)	Structure Excavation		Piling HP 12x53 (Lin. Feet)	CELLULAR ABUTMENT BACKFILL (Lump Sum)	Crushed Aggregate Slope Protection (Tons)
		Class AA (Cu. Yds.)	Class A (Cu. Yds.)							Common	Solid Rock (Cu. Yds.)			
Title & Quantities	1													
General Notes	2													
Layout	3													
Abutment No. 1	4,5,6,7	66.9	98.1	19,357				4750	25		12	120	3	38
Pier No. 1	8		64.9	15,188						34	47			
Abutment No. 2	9,10,11,12	49.5	76.8	15,301				3545	20		12	95	4	38
Superstructure	13,14,15	226.3		22,299	1	466		32,469						
Expansion Joint	16						2							
Construction Elevations	17&18													
Soundings	19													
Sub-total Substructure		116.4	239.8	49,846				8295	45	34	71			76
Sub-total Superstructure		226.3		22,299	1	466		32,469						
Total		342.7	239.8	72,145	1	466	2	40,764	45	34	71	215	3+4	76

- ① Approximate weight of structural steel = 170,150 lbs.
- ② The Approximate length of Expansion Joint = 62 Lin. Ft. (Total). The Contractor shall use at his option, one of the following: Fel-Spa T-40, Transflex 400, Wabo Flex SR-4, Delstiflex CP-400
- ③ Includes Approx. 251 cu. yds. common excavation and 140 cu. yds. cellular abutment backfill.
- ④ Includes Approx. 226 cu. yds. common excavation and 119 cu. yds. cellular backfill.

STANDARD DRAWINGS
 (Standard Drawings listed below are the current edition & are to be used with these plans.)
 BPS-003-01
 BVE-001-3
 BSA-006-1
 BSB-004-01 thru BSB-007-01

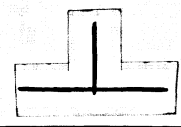
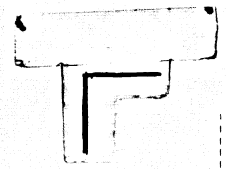
BILL OF INCIDENTAL MATERIALS			
Item	No. of Pieces	Size	Location
Plastic Pipes	16	1"	Wing Tips

Note: The Bill of Incidental Materials is approximate only and the Contractor is responsible to furnish enough material to complete the work in accordance with the plans and specifications.

SPECIAL PROVISIONS
 4(16) Welding Steel Bridges
 19(16) Epoxy Coated Steel Reinforcement

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF
TRIGG
 PADUCAH-TENN STATE LINE
 ROAD SP III-404-IL
 STATION 4499+69.46 PROJECT NO. I-24-2(6) 56
 CONST. PROJ. NO. 124-2(3)5 MAINT. PROJ. NO. 8730

BRIDGE



GENERAL NOTES

LETTING DATE

SPECIFICATIONS: The Kentucky Bureau of Highways Standard Specifications for Road and Bridge Construction, current edition, shall apply to this project.

DESIGN LOAD: This bridge is designed for H20-44 live load as specified in the 1969 AASHTO Specifications. This bridge is designed for a wind load based on a wind velocity of 34 m.p.h.

DESIGN STRESSES:

For reinforced concrete:	Class AA
$f_s = 20,000$ psi	$f_s = 20,000$ psi
$f_c = 1,200$ psi	$f_c = 1,400$ psi for other than slabs
$f'c = 3,000$ psi	$f'c = 1,200$ psi for deck slabs
u (for embed.) = 200 psi	$f'c = 4,000$ psi
u (for Σa) = 300 psi	u (for embed.) = 200 psi
$n = 10$	u (for Σa) = 300 psi
	$n = 8$

For structural steel:
 $f_s = 20,000$ psi for A36 steel

FOUNDATION PRESSURE: Footings are designed for a maximum pressure of 4000 psf. Piles are designed for a maximum axial load of 27 tons per pile and a maximum horizontal shear of 0 tons per pile.

CONCRETE: Class AA concrete is to be used throughout the superstructure & is to be used in the portions of the substructure below the top of cap. Class A concrete is to be used in the substructure below the top of cap.

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.

BEVELED EDGES: All exposed edges shall be beveled 10" unless otherwise shown.

BILL OF INCIDENTAL MATERIAL: The quantities shown in the Bill of Incidental Material 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 Class AA Concrete.

PAYMENT FOR STRUCTURAL STEEL: The Lump Sum Bid for structural steel shall be full payment for all structural steel, bolts, washers, lead plates, molten lead, anchor bolts, welding and welding materials, paint and all labor and materials necessary to erect the steel in accordance with the Plans and Specifications. The approximate weight of structural steel shown in the Estimate of Quantities does not include overrun or weld material.

PILING: Piling shall be driven to refusal or to solid rock. Test piles shall be driven where designated on the plans to determine the length required and shall be accurately located so that they may be used in the finished structure.

TYPE OF PILES: The Contractor shall use the following type throughout: HP12-53 Steel Piles, Std. Dwg. SES-003, current edition.

CONSTRUCTION IDENTIFICATION: The names of the prime contractor and the sub-contractor 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 will be made.

CLEANING AND PAINTING: Section 607.25 specifications apply to this project and contractors are hereby reminded that in accordance with the Specifications, "All steel surfaces to be painted including exposed surfaces of splice plates, shall be kept clean and in a near white condition in accordance with SSPC 10 immediately prior to being painted with the first coat of paint regardless of whether the first coat is applied in the shop or in the field."

TREPANED SELF-LUBRICATING BEARING PLATES, BRONZE: Self-lubricating bronze plates shall be an article of standard production by an established manufacturer of such equipment. They shall be in accordance with Sub-Section 813.06 of the Specifications except as herein modified. Trepanned recesses shall be in accordance with Section 813.06 of the Specifications.

Chemical requirements are as follows:

Copper	per cent	79.0 min. - 85.0 max.
Tin	per cent	15.0 min. - 20.0 max.
Lead	per cent	0.25 max.
Zinc	per cent	0.25 max.
Iron	per cent	0.25 max.
Phosphorus	per cent	1.00 max.

Analysis shall regularly be made for Copper, Tin, Lead, and Phosphorus. However, the presence of Zinc and Iron greater than that specified shall constitute cause for rejection of the castings. Physical requirements are as follows:
 Deformation limit, min. - 18000 psi.
 Permanent set in one (1) inch under 100,000 psi - 0.04 inches to 0.20 inches.

ANCHOR BOLT HOLES: Holes of depth and dimensions shown shall be drilled for anchor bolts or dowels after the base plates are properly set by the superstructure contractor who shall be responsible for keeping holes dry in freezing weather. After base plates are properly set, anchor bolt holes drilled & anchor bolts are placed in drilled. Holes molten lead shall be poured in holes & packed until holes are completely filled flush to top of base plates. The cost of drilling anchor bolt holes, finishing lead, & filling holes with molten lead shall be incidental to included in the lump sum bid for structural steel.

TEXTURING: The bridge deck shall be textured in accordance with Section 609.18 of the standard specifications.

MEMBRANE CURING COMPOUND: White pigmented curing compound shall be applied to the bridge deck in accordance with the Specifications.

EPOXY COATED REINFORCING STEEL: All reinforcing bars designated by suffix (E) in the plans shall be epoxy coated in accordance with the Special Provision for Epoxy Coated Reinforcing Steel.

TEMPORARY SUPPORTS: Temporary supports or shoring will not be permitted under the girders when pouring the concrete floor slab or when taking "top of steel" elevations.

CAMBER: Web plates shall be cut to provide for the camber of the girder. Girders which do not conform to plan camber and grade in the erected position shall be considered as requiring, at no additional cost to the state, either an adjustment in depth of the concrete slab haunch over the steel supporting members or a reworking of the girder camber to meet the plan grade and slab thickness.

CONNECTIONS: Unless otherwise provided on the plans, all field connections shall be 7/8" diameter high strength bolts. Open holes shall be 1 3/16" diameter. All joints are designed as friction type connections. Tightening shall be done with properly calibrated wrenches.

PROHIBITED FIELD WELDING: Except as shown on the plans, no welding of any nature shall be performed on the load carrying members of the bridge without the written consent of the Director, Division of Bridges, or his authorized representative, and then only in the manner and at the locations designated in the authorization.

WELDING: All welding shall conform to AWS D.1.1-72 "Structural Welding Code" of the American Welding Society, with modifications & additions as stated on the plans, 1974 AASHTO, and Spec. Provision 4(06) and all revisions of AWS D.1.1-72.

CONCRETE SURFACE FINISH: In addition to those surface areas listed in the following surface areas shall also receive the surface preparation:

1. The bottom of the pier cap & exposed surfaces of the pier below the bottom of the pier cap.
2. All exposed surfaces of the abutments below the top of cap.

DIMENSIONS: All dimensions are for a normal temperature of 60° Fahrenheit. Layout dimensions are horizontal dimensions.

SHOP ASSEMBLY: General reaming of holes for each bolted splice connection of each longitudinal girder line shall be progressively shop assembled with at least three contiguous shop sections adjusted to line, elevations, camber & fit for drilling or reaming. At least one shop section shall be added at the advancing end of the assembly before any shop section is removed from the rearward end so that the assembled portion of the structure is never less than three contiguous shop sections. Other major bolted connections to the longitudinal girders shall be drilled or reamed in the shop with connecting parts assembled or shall be reamed to metal template without assembly. Girder sections shall remain assembled for inspection by the Bureau of Highways Inspector & are to be matchmarked while assembled. Connections for the cross frames, expansion dams & other minor members may be punched or drilled full size without assembly, subject to the requirements in the specifications for general reaming.

WELDING PROCEDURE: Qualification tests of all welding procedures shall be completed by the contractor and approved by the Engineer prior to the final approval of the shop drawings and Welding Procedure and the start of the fabrication.

MATERIALS: AWS A 5.1M Specifications, current edition, as designated below, shall govern the materials furnished.
 * A36-75 Structural Steel, 36,000 psi Minimum Yield.

A325-74 High Strength Carbon Steel Bolts for Structural Joints, including Suitable Nuts and Plain Hardened Washers.
 A615-75 Deformed Eject-Steel Bars for Concrete Reinforcement Grade 60.

827-95(171) Sheet Lead and Pig Lead.

E94-28(4) Radiographic Inspection of Welds.
 E09-43(192) Magnetic Particle Inspection of Welds.

EXPANSION JOINT: The Contractor shall provide a factory prefabricated expansion joint system as manufactured by Watson Bowman Assoc. Inc., Buffalo, New York; The General Tire & Rubber Company, Nabbash, Indiana; Fel-Pro Inc., Brook, Illinois; or the D. S. Brown Company, North Baltimore, Ohio. The particular model number for each manufacturer is listed on sheet 19 of these plans. The manufacturer of the prefabricated joint shall prepare three sets of shop drawings to be submitted to the Engineer for review. The shop drawings shall provide information regarding material specifications, geometry, a table of variable temperatures & dimensions & a bill of material. Approval of the shop drawings shall be required prior to the make-up of the components of the joint.
 The expansion joint seal shall be in accordance with the type designated on the plans and as designed & detailed by the Company. The expansion device shall be paid for at the unit price to 1 per lineal foot & shall include all materials, tools, equipment, labor & other incidentals necessary to the satisfactory completion of manufacture & installation. The expansion device shall be installed as recommended by the manufacturer & under the manufacturer's supervision.

* The A36 structural steel material shall meet the longitudinal Charpy V-notch toughness requirement of 19 ft.-lbs. at 40°F. Sampling & testing procedures shall be in accordance with A 5.1M A 5.1B, current edition utilizing frequency testing. The following bridge member material shall be required to meet the longitudinal Charpy V-notch toughness test: All flange & web material in longitudinal girder shapes, including web & flange splice plates.

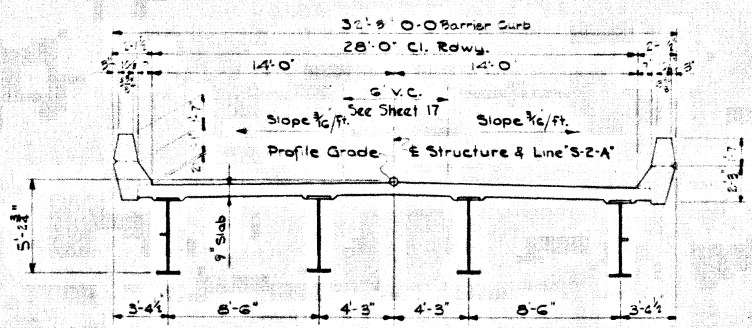
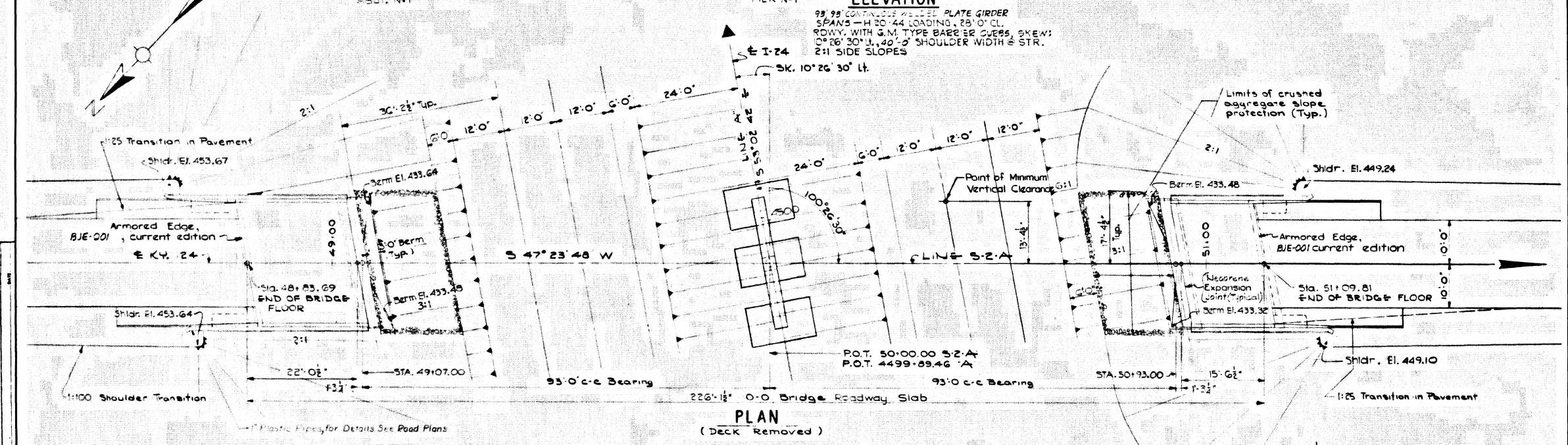
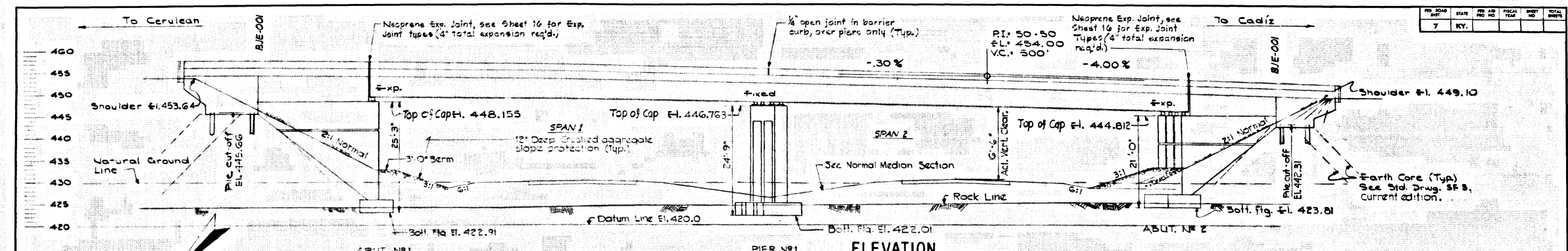
Ky 124 over I-24 SHEET 2

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 4499+89.46 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
 18790

GENERAL NOTES



DATE: 11-15-75
 DRAWN BY: J. L. WILSON
 CHECKED BY: J. L. WILSON
 SCALE: AS SHOWN
 SHEET NO. 18790
 OF 18790

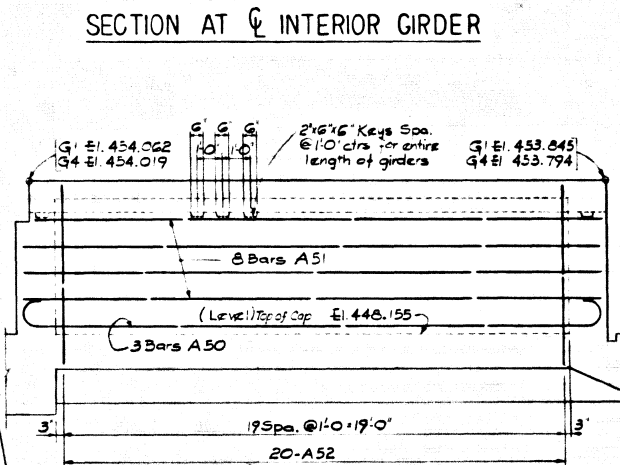
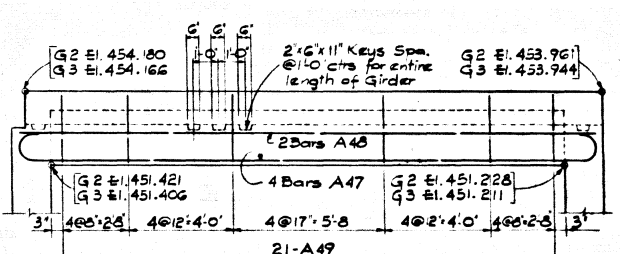
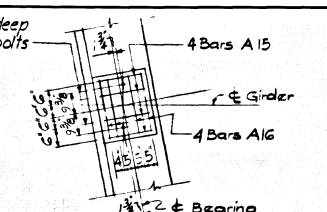
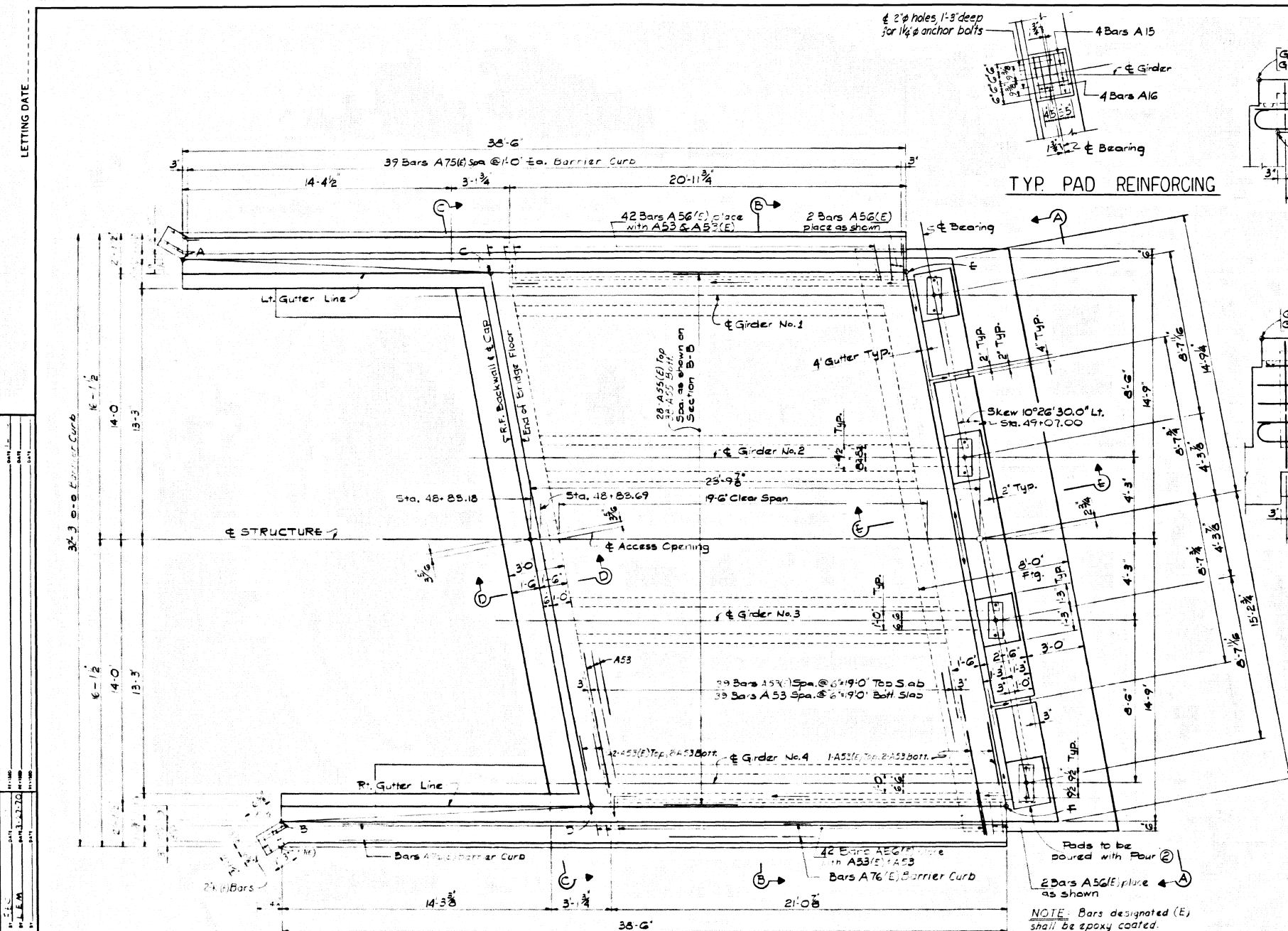


LAYOUT

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH - TENN. STATE LINE
 ROAD

STATION 4499+89.46 PROJECT NO. 18730

BRIDGE



CONSTRUCTION PROCEDURE FOR ABUTMENT

1. Place fill at Abutment to approximate limits of finished grade as shown on Roadway Plans.
2. Excavate for Footings and drive Piles.
3. Dress subgrade at Footings and place mortar or concrete base. Pour both Footings. Pour (1)
4. After backfilling at the front Footing excavate for sidewalks; place mortar or concrete base; place forms for Sidewalls and pour Front wall and Sidewalls to Top of Cap (including pedestals) Pour (2)
5. Backfill Sidewalls and make final grading inside of Abutment before placing forms and shoring for Deck Slabs. Special care shall be exercised to avoid damage to Frontwall, Backwall and Sidewalls.
6. Complete pouring of the Backwall, Frontwall & sidewalks above top of cap Girders and Slab. Pours (3) and (4)
7. Place wings Pour (5), then place barrier curbs Pour (6).
8. Place barrier curbs Pour (7)
9. Pouring Procedure steps are marked thus: (X)

TABLE OF ELEVATIONS

Location	Elevation
A Face of Pinth Top Curb	455.430
B Gutter Line Top Slab	454.044
C Top Slab	453.997
D Top Slab	453.228
E Top Slab	455.772

PLAN

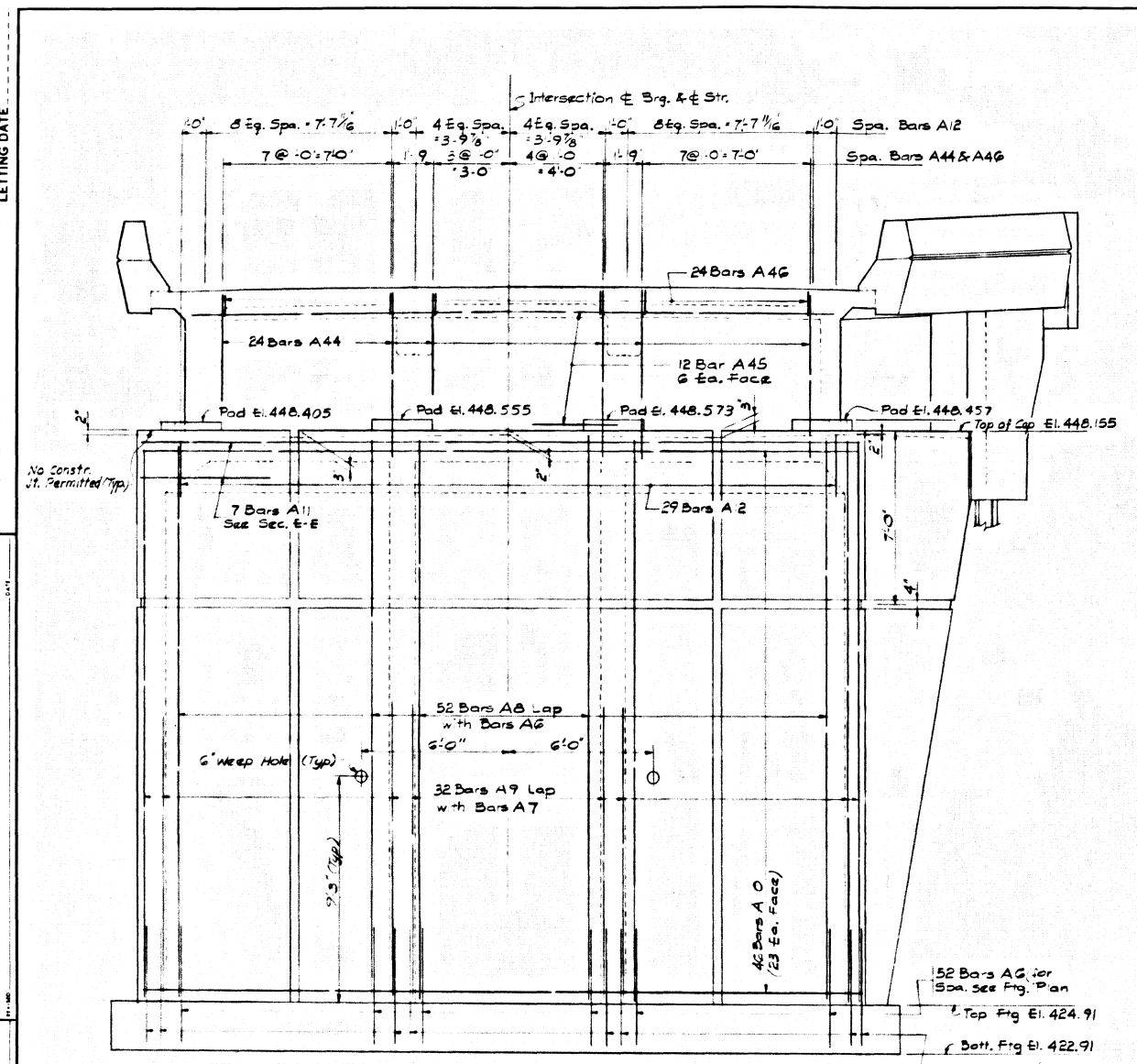
ABUTMENT NO. 1

11-24 OVER I-24 SHEET 4

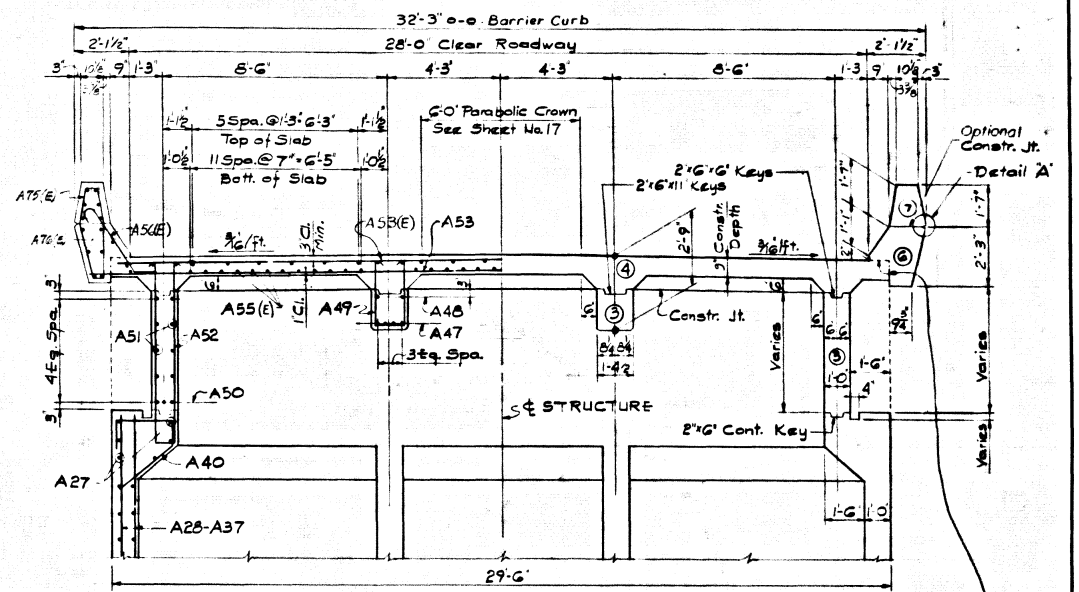
COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF
TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 449+89.46 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18750



LETTING DATE



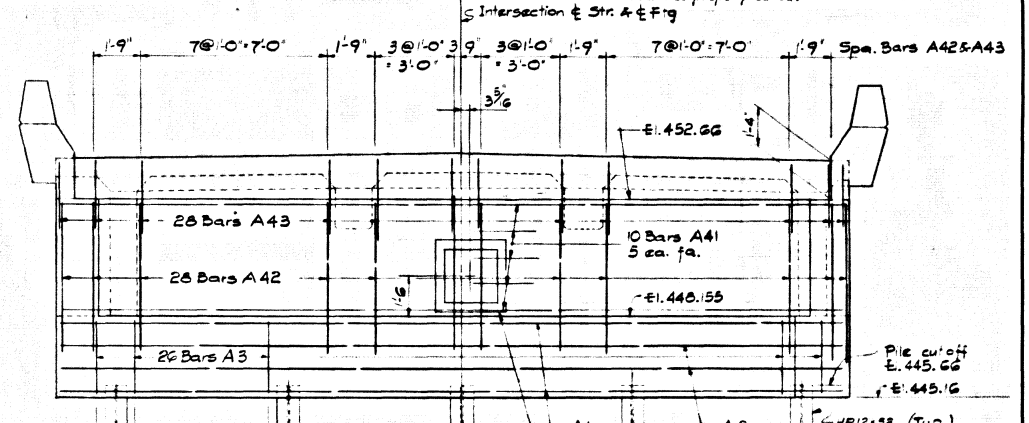
ELEVATION A-A



SECTION B-B

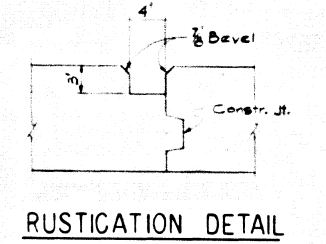
The top of cap bars must be accurately located in accordance with the plans so that they will not interfere with drilling anchor bolt holes.

The construction joint between the roadway slab and the barrier curb is mandatory. The concrete in the barrier curb shall not be poured until the deck has properly cured.

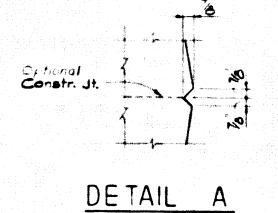


ELEVATION C-C

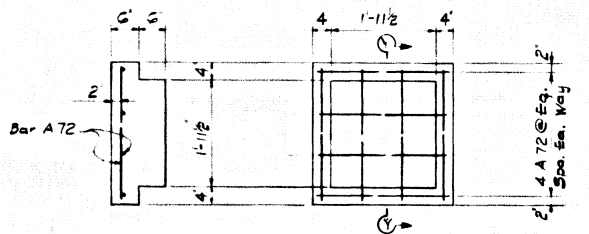
Access Opening for form removal. The Contractor is to bend or cut reinforcing steel to clear as necessary and place around opening. See Section D-D Sheet 6.



RUSTICATION DETAIL



DETAIL A



SECTION Y-Y PRECAST COVER DETAIL

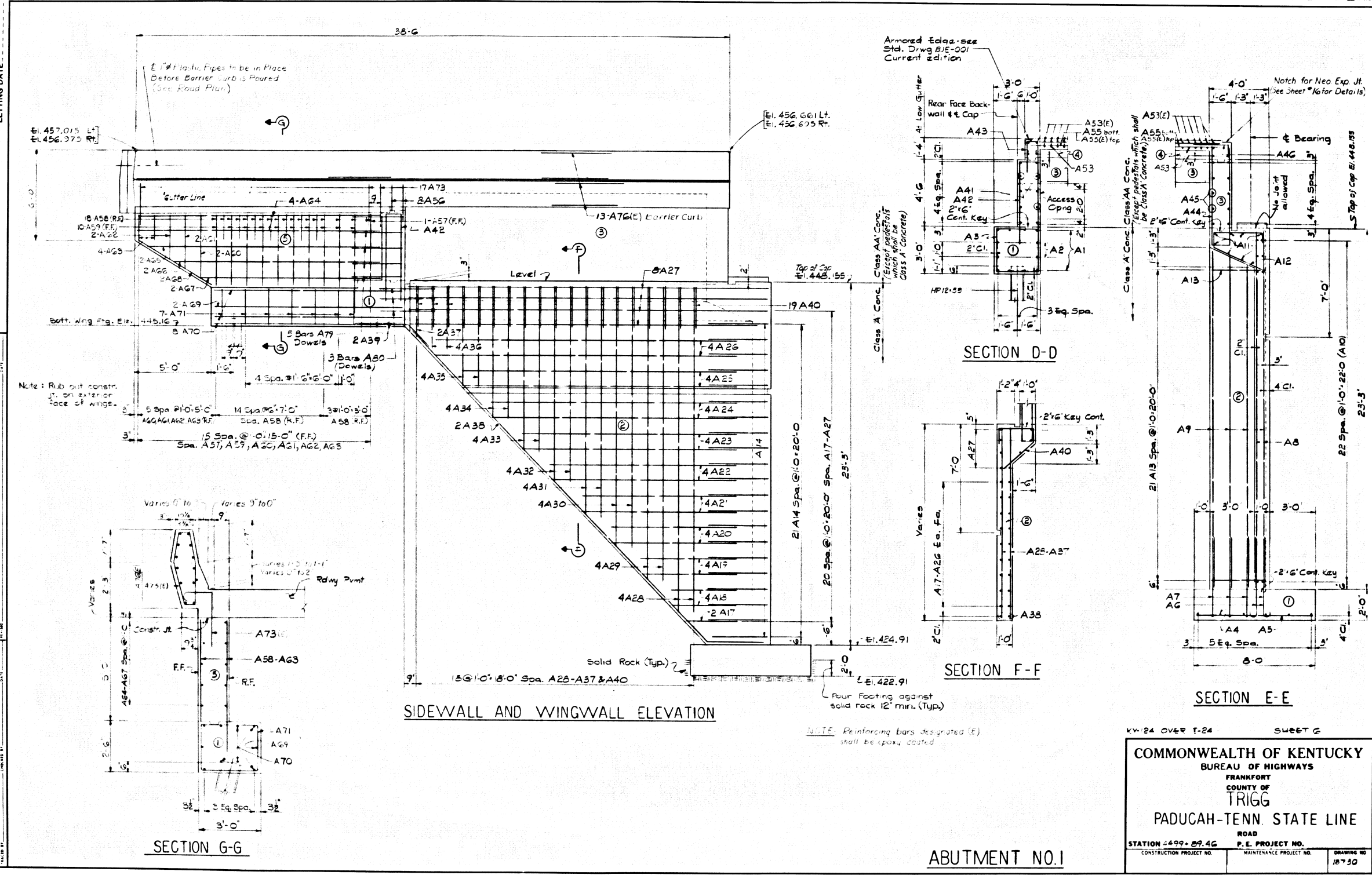
KY-124 OVER I-24 SHEET 5

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH - TENN. STATE LINE
 ROAD
 STATION 4499-59.46 P. E. PROJECT NO. 18730

ABUTMENT NO.1

BRIDGE

LETTING DATE



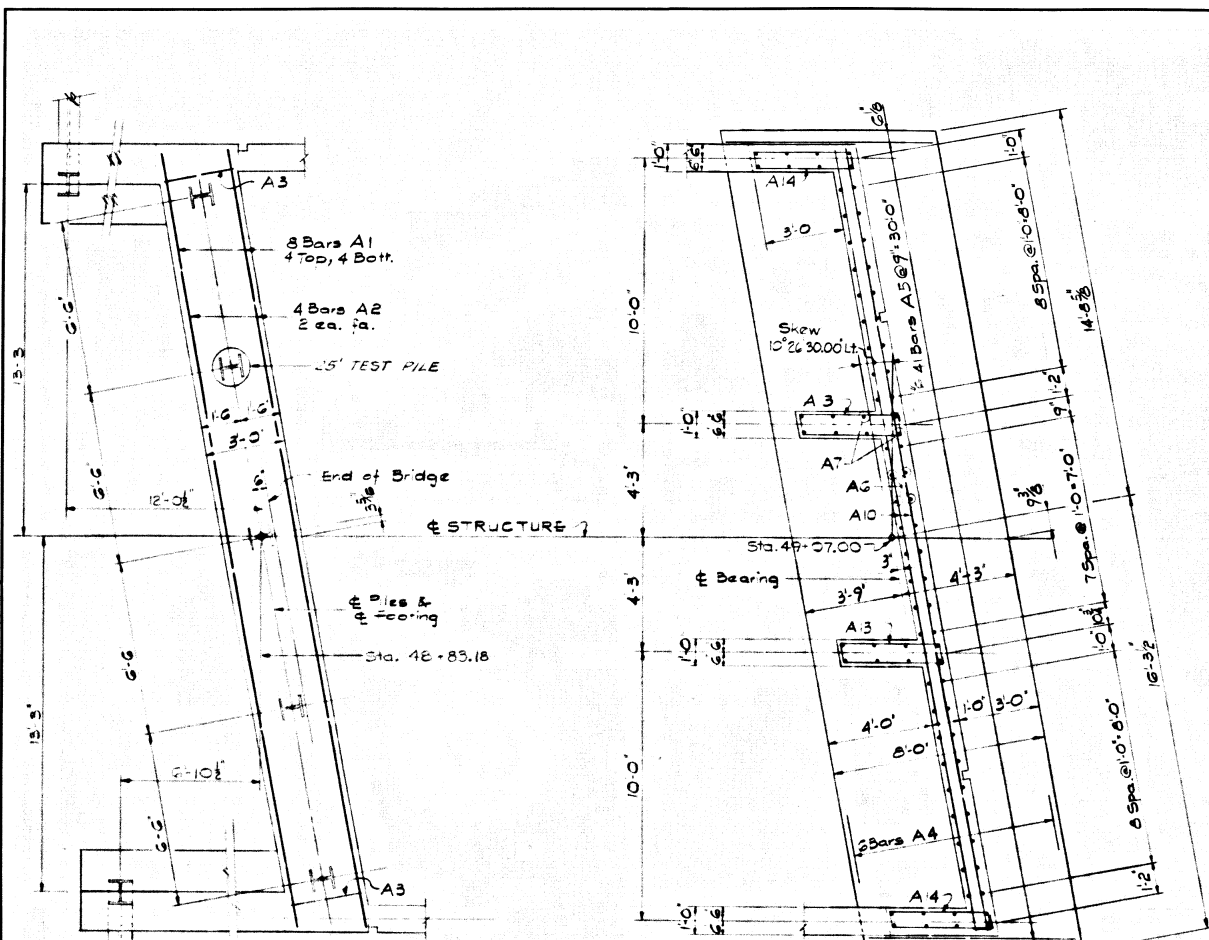
Note: Rub out constr. jt. on exterior face of wings.

NOTE: Reinforcing bars designated (E) shall be epoxy coated.

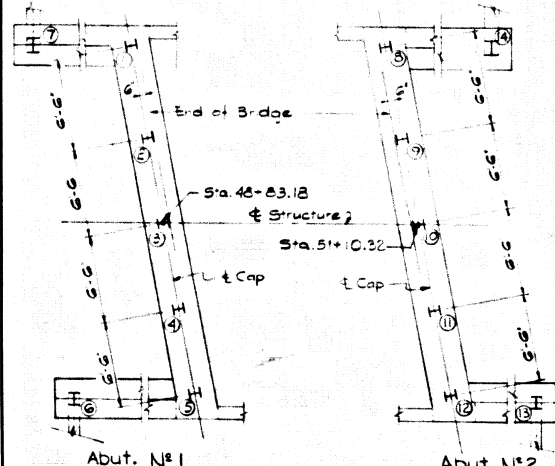
COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
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 ROAD
 STATION 1499+89.46 P. E. PROJECT NO.
 MAINTENANCE PROJECT NO. DRAWING NO. 18730



LETTING DATE _____



PLAN OF FOOTINGS



PILE RECORD					
Pile No.	Cut-off Elev. as shown on Plans or Piles driven	Tip of Pile El.	Length of Pile in Place (Ln. Ft.)	Calculated Bearing Capacity (Tons)	Pile No.
1	445.66		8	442.31	
2			9		
3			10		
4			11		
5			12		
6			13		
7			14		

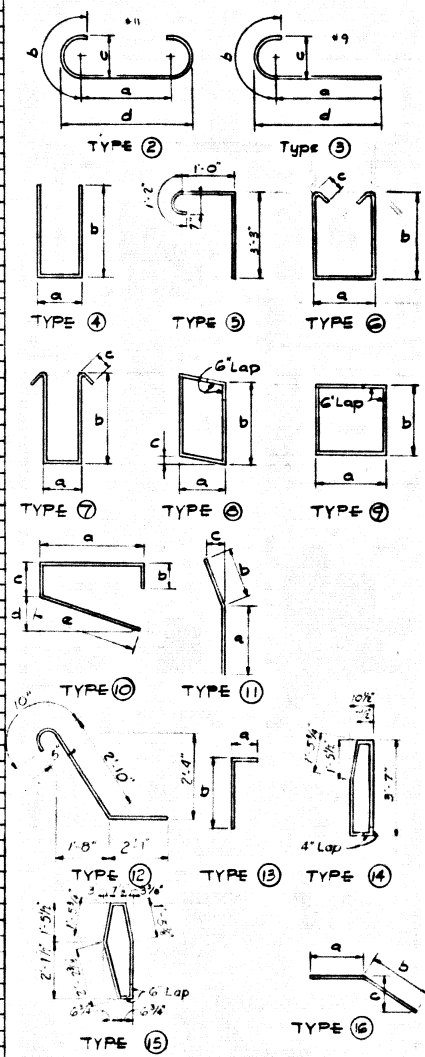
PILE NOTE: This pile record does not replace other records of piles to be kept and submitted by the Resident Engineer. After all piles have been driven, the Resident Engineer shall record the tip of pile elevation as driven, the length of pile in place, the calculated bearing capacity of each pile, and 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 place in the finished structure below cut-off elevation and are not necessarily pay items.

BILL OF REINFORCEMENT

Mark	Type	No.	Size	Length Ft. In.	Location	a	b	c	d	e
						Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.
A1	Str.	8	7	29.6	Footings					
A2	Str.	4	6	29.6						
A3	Str.	26	4	11.5		2	8	2	8	
A4	Str.	6	5	30.6						
A5	Str.	41	6	7.8						
A6	Str.	52	5	4.5	Dowels	3	7	0	0	5 3 9 1/2
A7	Str.	32	5	6.8	Counterfort Dowels	4	8	1	6	0 8 5 0
A8	Str.	52	5	6.8	Front wall					
A9	Str.	32	5	6.8	Counterforts					
A10	Str.	46	5	6.8	Front wall					
A11	Str.	7	7	89.0	Front wall Cap					
A12	Str.	27	7	89.0						
A13	Str.	26	7	89.0	Counterforts	100.5	20.5	0	0	11 5 1 3 9 1/2
A14	Str.	16	7	89.0	Side walls	20.5	20.5	0	0	11 5 1 3 9 1/2
A15	Str.	16	7	89.0						
A16	Str.	4	7	89.0	Side walls					
A17	Str.	4	7	89.0						
A18	Str.	8	7	89.0						
A19	Str.	8	7	89.0						
A20	Str.	8	7	89.0						
A21	Str.	8	7	89.0						
A22	Str.	8	7	89.0						
A23	Str.	8	7	89.0						
A24	Str.	8	7	89.0						
A25	Str.	8	7	89.0						
A26	Str.	8	7	89.0						
A27	Str.	8	7	89.0						
A28	Str.	8	7	89.0						
A29	Str.	8	7	89.0						
A30	Str.	8	7	89.0						
A31	Str.	8	7	89.0						
A32	Str.	8	7	89.0						
A33	Str.	8	7	89.0						
A34	Str.	8	7	89.0						
A35	Str.	8	7	89.0						
A36	Str.	8	7	89.0						
A37	Str.	8	7	89.0						
A38	Str.	4	4	22.0	Footings	27	6	3	3	0 2 8
A39	Str.	4	4	22.0	Side walls	2	8	3	3	0 9
A40	Str.	38	4	22.0	Endwall	1	0	9	9	10 2 10
A41	Str.	10	4	22.0						
A42	Str.	28	4	22.0						
A43	Str.	4	4	22.0						
A44	Str.	24	4	22.0	Front wall	1	2	3	3	
A45	Str.	2	4	22.0						
A46	Str.	13	4	22.0						
A47	Str.	8	4	22.0	Int. Girder	20	0	2	0	1 2 4 22 0 4
A48	Str.	4	4	22.0						
A49	Str.	38	4	22.0	Fascia Girder	1	2	5	0	6 3
A50	Str.	16	4	22.0	Fascia Girder	21	1	8	0	11 4 22 0 4
A51	Str.	16	4	22.0						
A52	Str.	40	4	22.0	Slab	0	9	6	9	0 7
A53	Str.	43	4	22.0						
A54	Str.	42	4	22.0						
A55	Str.	3	4	22.0	Slab & Barrier Curb					
A56	Str.	58	4	22.0	Wing walls					
A57	Str.	2	4	22.0						
A58	Str.	26	4	22.0						
A59	Str.	20	4	22.0						
A60	Str.	4	4	22.0						
A61	Str.	4	4	22.0						
A62	Str.	4	4	22.0						
A63	Str.	8	4	22.0						
A64	Str.	8	4	22.0						
A65	Str.	4	4	22.0						
A66	Str.	4	4	22.0						
A67	Str.	4	4	22.0						
A68	Str.	4	4	22.0						
A69	Str.	4	4	22.0	Wing Fig.					
A70	Str.	16	4	22.0						
A71	Str.	4	4	22.0						
A72	Str.	4	4	22.0	Recast Cover	2	8	2	2	
A73	Str.	24	4	22.0	Wing wall curb					
A74	Str.	1	4	22.0						
A75	Str.	12	4	22.0						
A76	Str.	22	4	22.0	Barrier Curb					
A77	Str.	2	4	22.0						
A78	Str.	2	4	22.0						
A79	Str.	2	4	22.0	End wall (curb boards)	1	1	3	6	
A80	Str.	2	4	22.0	Footings & Side wall Dowels	0	8	3	9	
A81	Str.	4	4	22.0	Slab					
A82	Str.	4	4	22.0	Wing Tip					
A83	Str.	12	4	22.0		1	3	1	8	0 10
A84	Str.	3	4	22.0		1	5	1	8	0 10

ESTIMATE OF QUANTITIES
 Class A Concrete = 98.1 cu. yds.
 Class AA Concrete = 66.9 cu. yds.
 Early broken steel reinforcement = 4750 Lbs.
 Non-coated steel reinforcement = 19357 Lbs.

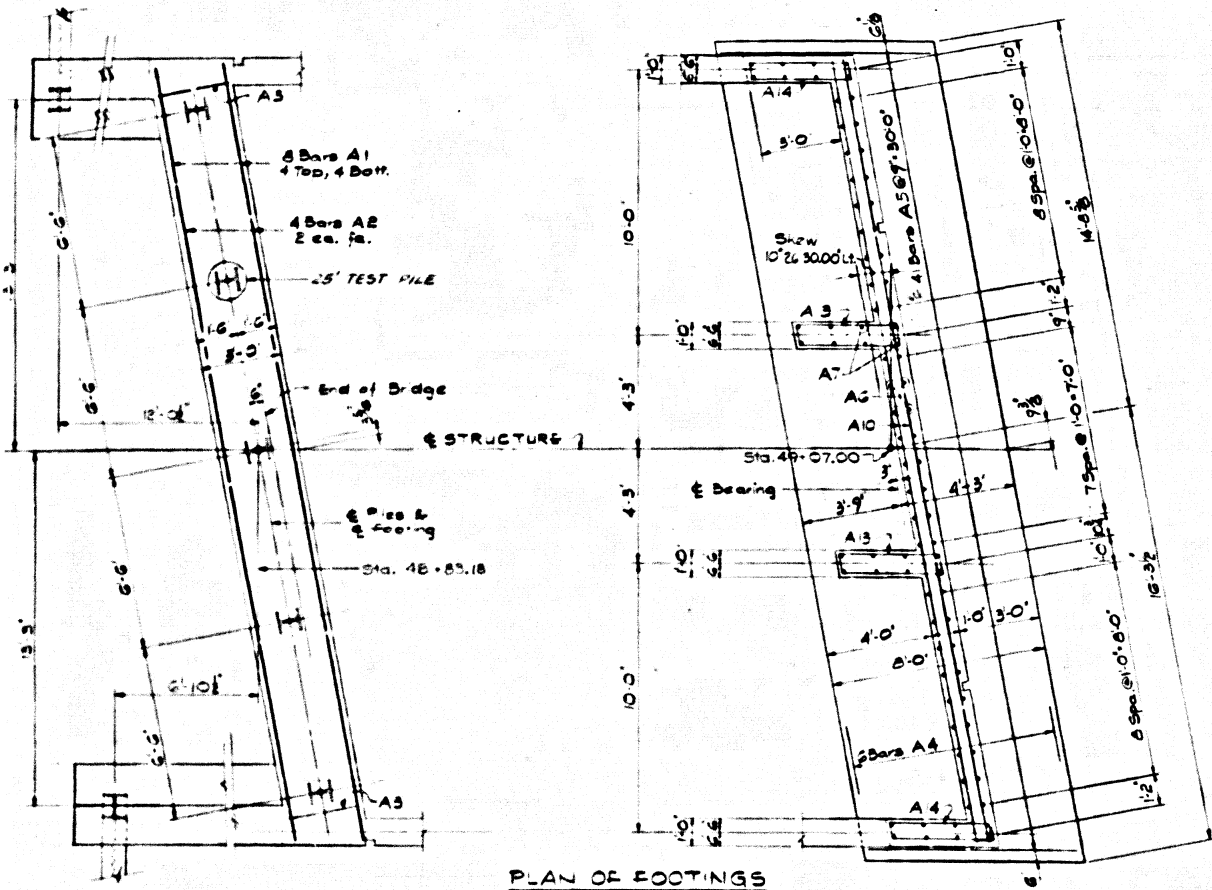
ABUTMENT NO. 1 & PILE RECORD



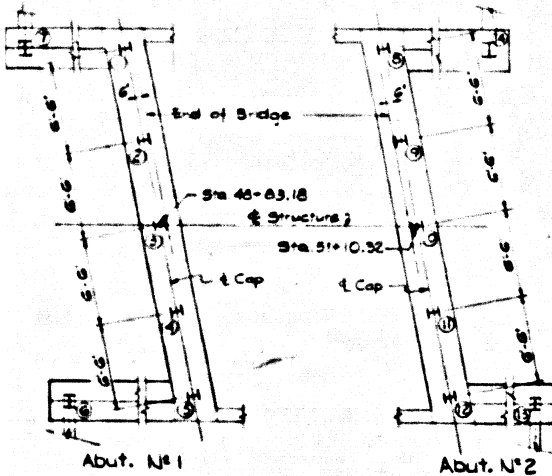
COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN STATE LINE
 ROAD STATION 4499+29.46 P.E. PROJECT NO. DRAWING NO. 18730
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.



LETTING DATE



PLAN OF FOOTINGS



Abut. No. 1

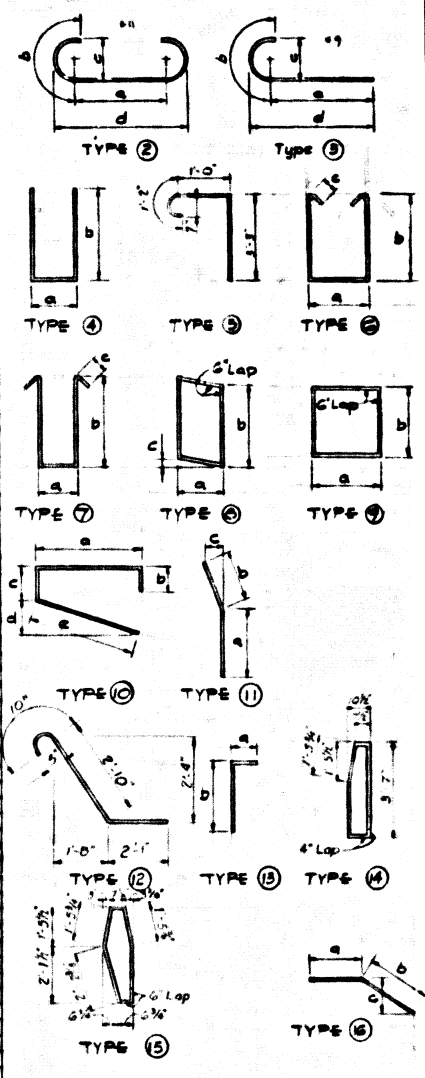
Abut. No. 2

PILE NO.	Cut-off Elev.	Tip of Pile Elev.	Length in Place (ft.)	Calculated Bearing Capacity (Tons)	PILE NO.	Cut-off Elev.	Tip of Pile Elev.	Length in Place (ft.)	Calculated Bearing Capacity (Tons)
1	445.66	416.0	29.50	Refusal	8	442.31	418.74	23.57	Refusal
2	421.45	24.81	9		9	418.73	23.52		
3	425.53	20.13	10		10	418.77	23.54		
4	421.58	24.08	11		11	417.86	24.45		
5	420.93	24.73	12		12	417.17	25.14		
6	419.40	26.26	13		13	415.4	27.17		
7	423.41	20.25	14		14	418.25	24.26		

PILE NOTE: This pile record does not replace other records of piles to be kept and submitted by the Resident Engineer. After all piles have been driven, the Resident Engineer shall record the tip of pile elevation 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 herein are the actual lengths of piles in place in the finished structure below cut-off elevation and are not necessarily pay items.

BILL OF REINFORCEMENT

Mark	Type	Size	Length	Location	a	b	c	d	e
			ft. in.		ft. in.	ft. in.	ft. in.	ft. in.	ft. in.
A1	Str.	5	7	Footings					
A2	Str.	4	4						
A3	Str.	2	2						
A4	Str.	6	10		2	2	2	2	
A5	Str.	4	7						
A6	Str.	3	4	Sewer	3	7	0	0	0
A7	Str.	3	6	Center of Sewer	4	1	0	0	3
A8	Str.	3	6	Front wall					3
A9	Str.	3	6	Counterforts					3
A10	Str.	3	6	Front wall					3
A11	Str.	7	7	Front wall Cap					7
A12	Str.	3	6	Counterforts	0	0	0	0	3
A13	Str.	3	6	Side walls	0	0	0	0	3
A14	Str.	3	6	Side walls	0	0	0	0	3
A15	Str.	3	6	Side walls	0	0	0	0	3
A16	Str.	3	6	Side walls	0	0	0	0	3
A17	Str.	3	6	Side walls	0	0	0	0	3
A18	Str.	3	6	Side walls	0	0	0	0	3
A19	Str.	3	6	Side walls	0	0	0	0	3
A20	Str.	3	6	Side walls	0	0	0	0	3
A21	Str.	3	6	Side walls	0	0	0	0	3
A22	Str.	3	6	Side walls	0	0	0	0	3
A23	Str.	3	6	Side walls	0	0	0	0	3
A24	Str.	3	6	Side walls	0	0	0	0	3
A25	Str.	3	6	Side walls	0	0	0	0	3
A26	Str.	3	6	Side walls	0	0	0	0	3
A27	Str.	3	6	Side walls	0	0	0	0	3
A28	Str.	3	6	Side walls	0	0	0	0	3
A29	Str.	3	6	Side walls	0	0	0	0	3
A30	Str.	3	6	Side walls	0	0	0	0	3
A31	Str.	3	6	Side walls	0	0	0	0	3
A32	Str.	3	6	Side walls	0	0	0	0	3
A33	Str.	3	6	Side walls	0	0	0	0	3
A34	Str.	3	6	Side walls	0	0	0	0	3
A35	Str.	3	6	Side walls	0	0	0	0	3
A36	Str.	3	6	Side walls	0	0	0	0	3
A37	Str.	3	6	Side walls	0	0	0	0	3
A38	Str.	3	6	Side walls	0	0	0	0	3
A39	Str.	3	6	Side walls	0	0	0	0	3
A40	Str.	3	6	Side walls	0	0	0	0	3
A41	Str.	3	6	Side walls	0	0	0	0	3
A42	Str.	3	6	Side walls	0	0	0	0	3
A43	Str.	3	6	Side walls	0	0	0	0	3
A44	Str.	3	6	Side walls	0	0	0	0	3
A45	Str.	3	6	Side walls	0	0	0	0	3
A46	Str.	3	6	Side walls	0	0	0	0	3
A47	Str.	3	6	Side walls	0	0	0	0	3
A48	Str.	3	6	Side walls	0	0	0	0	3
A49	Str.	3	6	Side walls	0	0	0	0	3
A50	Str.	3	6	Side walls	0	0	0	0	3
A51	Str.	3	6	Side walls	0	0	0	0	3
A52	Str.	3	6	Side walls	0	0	0	0	3
A53	Str.	3	6	Side walls	0	0	0	0	3
A54	Str.	3	6	Side walls	0	0	0	0	3
A55	Str.	3	6	Side walls	0	0	0	0	3
A56	Str.	3	6	Side walls	0	0	0	0	3
A57	Str.	3	6	Side walls	0	0	0	0	3
A58	Str.	3	6	Side walls	0	0	0	0	3
A59	Str.	3	6	Side walls	0	0	0	0	3
A60	Str.	3	6	Side walls	0	0	0	0	3
A61	Str.	3	6	Side walls	0	0	0	0	3
A62	Str.	3	6	Side walls	0	0	0	0	3
A63	Str.	3	6	Side walls	0	0	0	0	3
A64	Str.	3	6	Side walls	0	0	0	0	3
A65	Str.	3	6	Side walls	0	0	0	0	3
A66	Str.	3	6	Side walls	0	0	0	0	3
A67	Str.	3	6	Side walls	0	0	0	0	3
A68	Str.	3	6	Side walls	0	0	0	0	3
A69	Str.	3	6	Side walls	0	0	0	0	3
A70	Str.	3	6	Side walls	0	0	0	0	3
A71	Str.	3	6	Side walls	0	0	0	0	3
A72	Str.	3	6	Side walls	0	0	0	0	3
A73	Str.	3	6	Side walls	0	0	0	0	3
A74	Str.	3	6	Side walls	0	0	0	0	3
A75	Str.	3	6	Side walls	0	0	0	0	3
A76	Str.	3	6	Side walls	0	0	0	0	3
A77	Str.	3	6	Side walls	0	0	0	0	3
A78	Str.	3	6	Side walls	0	0	0	0	3
A79	Str.	3	6	Side walls	0	0	0	0	3
A80	Str.	3	6	Side walls	0	0	0	0	3
A81	Str.	3	6	Side walls	0	0	0	0	3
A82	Str.	3	6	Side walls	0	0	0	0	3
A83	Str.	3	6	Side walls	0	0	0	0	3
A84	Str.	3	6	Side walls	0	0	0	0	3
A85	Str.	3	6	Side walls	0	0	0	0	3
A86	Str.	3	6	Side walls	0	0	0	0	3
A87	Str.	3	6	Side walls	0	0	0	0	3
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A89	Str.	3	6	Side walls	0	0	0	0	3
A90	Str.	3	6	Side walls	0	0	0	0	3
A91	Str.	3	6	Side walls	0	0	0	0	3
A92	Str.	3	6	Side walls	0	0	0	0	3
A93	Str.	3	6	Side walls	0	0	0	0	3
A94	Str.	3	6	Side walls	0	0	0	0	3
A95	Str.	3	6	Side walls	0	0	0	0	3
A96	Str.	3	6	Side walls	0	0	0	0	3
A97	Str.	3	6	Side walls	0	0	0	0	3
A98	Str.	3	6	Side walls	0	0	0	0	3
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A100	Str.	3	6	Side walls	0	0	0	0	3

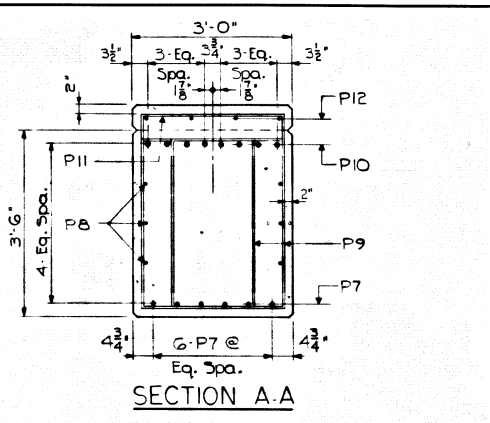
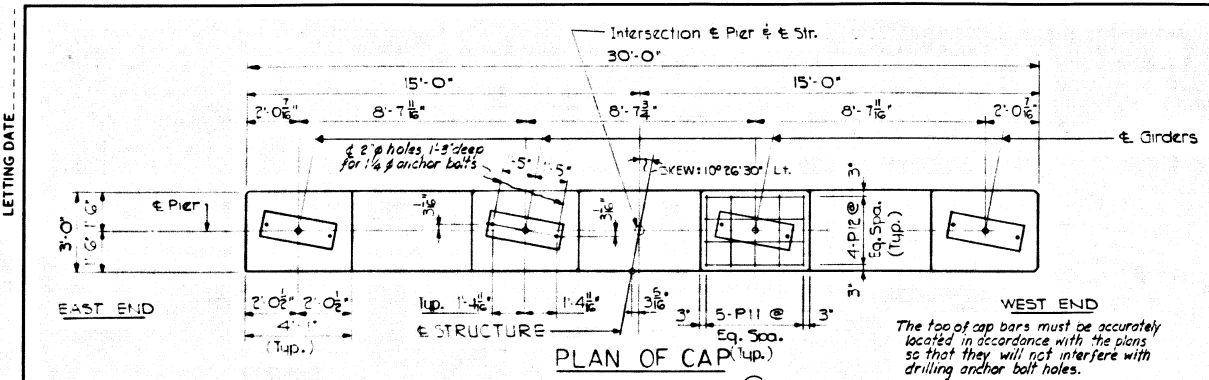


ESTIMATE OF QUANTITIES
 Class A Concrete = 98.1 cu. yds.
 Class AA Concrete = 66.9 cu. yds.
 Steel Reinforcement = 475.5 lbs.
 Non-reinforced steel reinforcement = 19357 lbs.

ABUTMENT NO. 1 & PILE RECORD

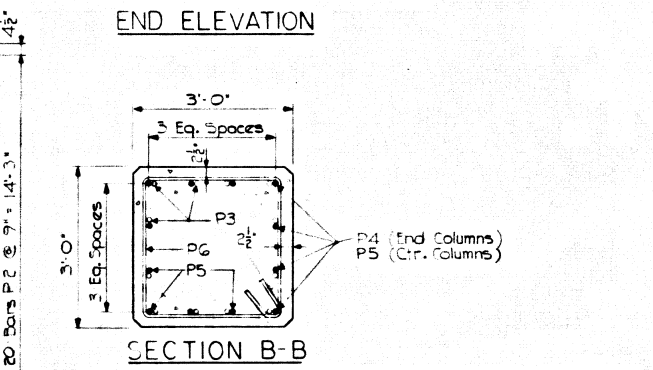
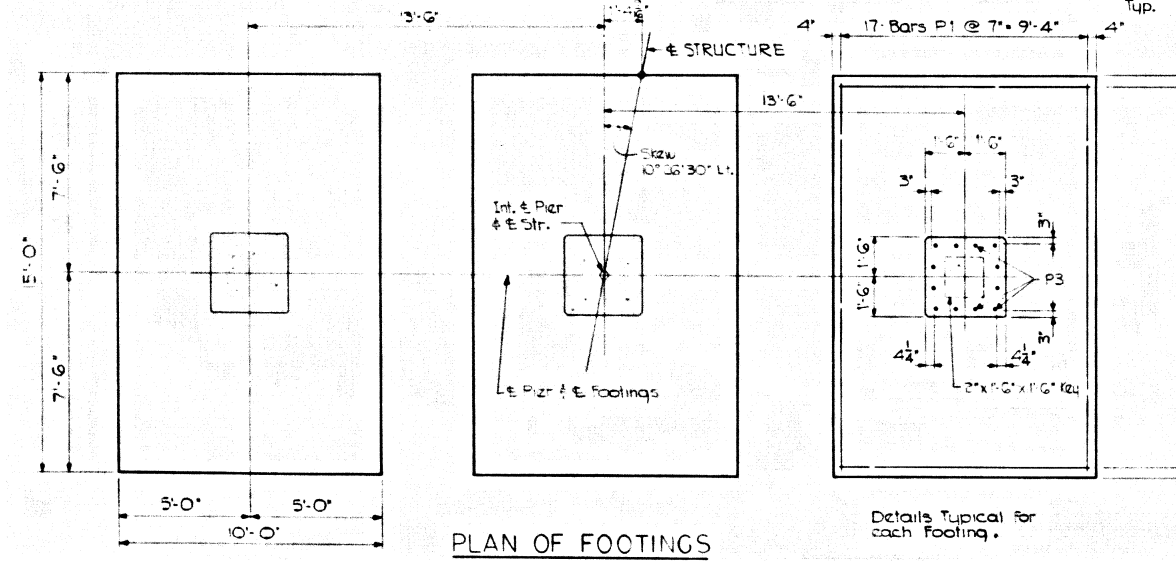
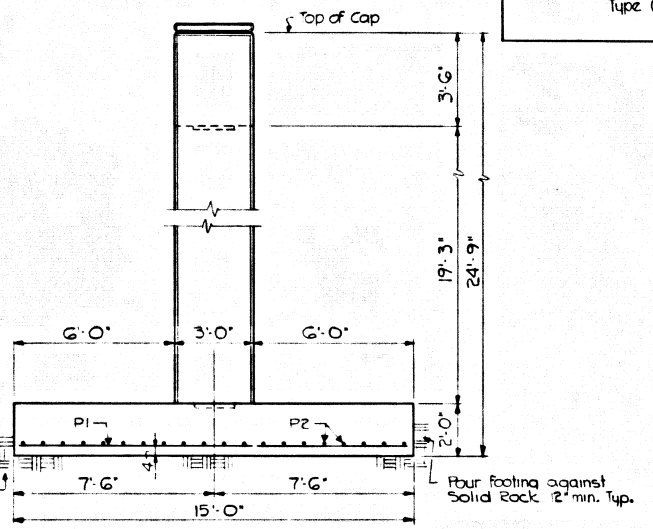
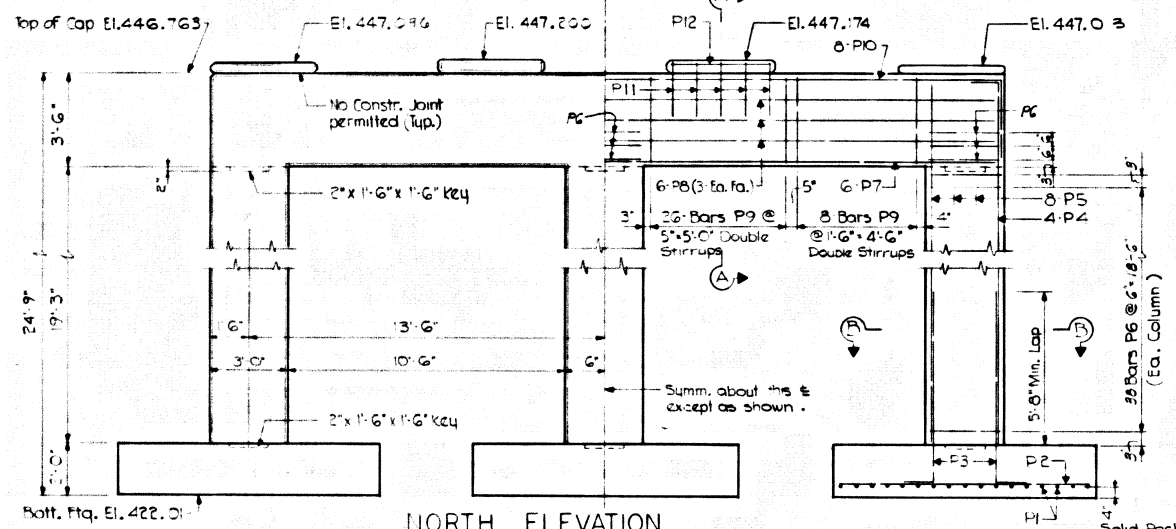
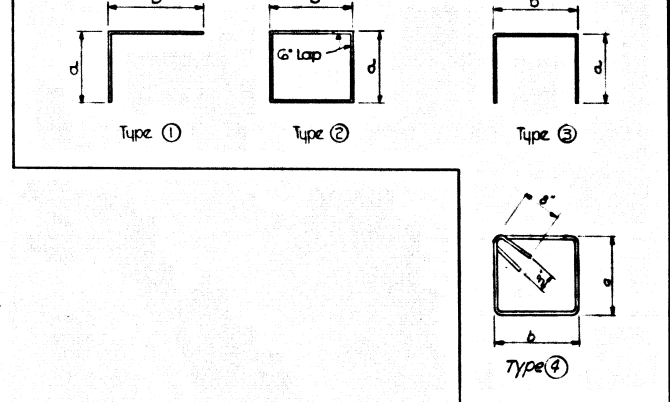
COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 4499+89.46 P.E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.
 16730

BRIDGE



BILL OF REINFORCEMENT

Mark	Type	No. Bars	Bar Size	Length Ft.	in.	Location	a Ft.	b Ft.	c Ft.	d In.
P1	Str.	51	11	14	6	Footings				
P2	Str.	60	8	9	6	Footings				
P3	Str.	36	10	9	2	Footings & Col.	1	10	7	4
P4	Str.	8	10	23	9	Columns	1	3	22	6
P5	Str.	28	10	22	6	Columns				
P6	Str.	126	4	11	5	Column Hoops	2	7	2	7
P7	Str.	6	10	29	8	Cap (Bolt.)				
P8	Str.	6	6	29	8	Cap (Side)				
P9	Str.	60	6	11	4	Cap (Stirrups)	3	2	2	1 1/2
P10	Str.	8	11	35	6	Cap (Top)	3	0	29	6
P11	Str.	20	4	6	7	Pads	2	0	2	7
P12	Str.	16	4	3	9	Pads				

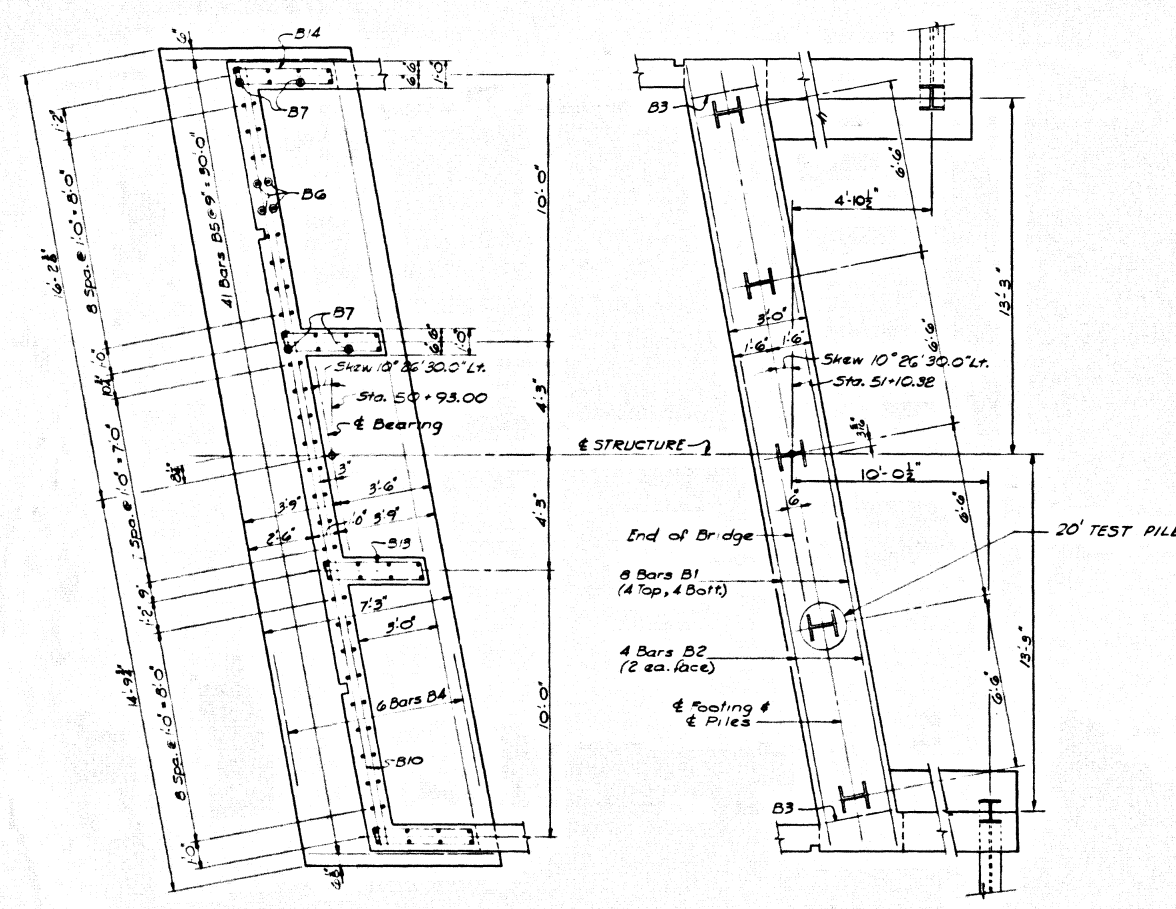


ESTIMATE OF QUANTITIES
 Concrete, Class 'A' 649 Cu. Yds.
 Steel Reinforcement 15,188 Lbs.

COMMONWEALTH OF KENTUCKY
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 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 4499+89.46 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 16730



LETTING DATE



PLAN OF FOOTINGS
 Note: For Pile Record, see Sheet 7.

BILL OF REINFORCEMENT

Mark	Type	No.	Size	Length Ft. In.	Location	Dimensions				
						a	b	c	d	e
						Ft. In.	Ft. In.	Ft. In.	Ft. In.	Ft. In.
B1	Str.	8	7	29	6					
B2	Str.	4	6	29	6					
B3	Str.	9	28	4	11	5				
B4	Str.	6	5	30	6					
B5	Str.	41	6	6	10					
B6	Str.	3	52	5	4	5				
B7	Str.	32	8	6	2					
B8	Str.	52	5	18	10					
B9	Str.	32	8	18	10					
B10	Str.	38	5	29	8					
B11	Str.	7	6	29	8					
B12	Str.	10	29	5	8	7				
B13	Str.	8	34	4	9	9				
B14	Str.	8	34	4	9	4				
B15	Str.	4	16	5	5	7				
B16	Str.	4	16	5	6	7				
B17	Str.	8	5	3	9					
B18	Str.	8	5	5	3					
B19	Str.	8	5	6	9					
B20	Str.	8	5	8	6					
B21	Str.	8	5	10	0					
B22	Str.	8	5	11	6					
B23	Str.	8	5	13	0					
B24	Str.	16	5	16	8					
B25	Str.	4	5	18	0					
B26	Str.	8	5	15	0					
B27	Str.	8	5	18	9					
B28	Str.	8	5	10	3					
B29	Str.	8	5	7	9					
B30	Str.	8	5	5	3					
B31	Str.	8	5	2	9					
B32	Str.	11	4	6	24	0				
B33	Str.	16	4	6	9	2				
B34	Str.	4	6	5	7	11				
B35	Str.	10	26	5	6	8				
B36	Str.	4	10	5	29	8				
B37	Str.	4	28	5	11	9				
B38	Str.	4	28	5	6	7				
B39	Str.	12	5	26	7					
B40	Str.	4	24	5	13	7				
B41	Str.	13	24	5	3	0				
B42	Str.	2	8	10	17	9				
B43	Str.	4	5	15	2					
B44	Str.	6	34	6	5	5				
B45	Str.	2	6	7	17	3				
B46	Str.	16	5	15	6					
B47	Str.	7	26	5	14	3				
B48	Str.	30	5	24	8					
B49	Str.	34	5	24	8					
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B51	Str.	12	62	5	5	9				
B52	Str.	10	4	10	5					
B53	Str.	16	9	10	0					
B54	Str.	4	5	10	0					
B55	Str.	32	6	5	9					
B56	Str.	16	5	4	0					
B57	Str.	2	5	3	6					
B58	Str.	4	5	3	6					
B59	Str.	8	5	2	6					
B60	Str.	8	5	1	9					
B61	Str.	8	5	13	9					
B62	Str.	4	5	12	9					
B63	Str.	4	5	10	6					
B64	Str.	4	5	7	6					
B65	Str.	4	6	8	5					
B66	Str.	4	8	5	8	0				
B67	Str.	5	30	7	5	4				
B68	Str.									
B69	Str.	5	62	5	9	2				
B70	Str.	20	5	29	8					
B71	Str.									
B72	Str.	8	4	2	4					
B73	Str.	28	5	5	0					
B74	Str.	4	4	5	9	0				
B75	Str.	16	12	5	2	1				
B76	Str.	16	12	5	3	1				

ESTIMATE OF QUANTITIES

- Class A Concrete • 765 Cys
- Class AA Concrete • 41.5 Cys
- Steel Reinforcement • 3,545 lbs.
- Non-Coated Steel Reinforcement • 1,521 lbs.

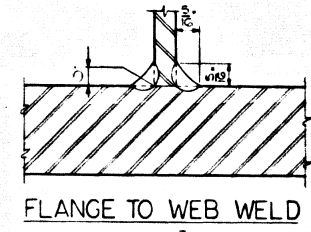
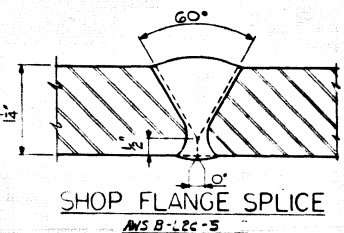
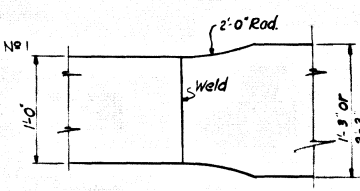
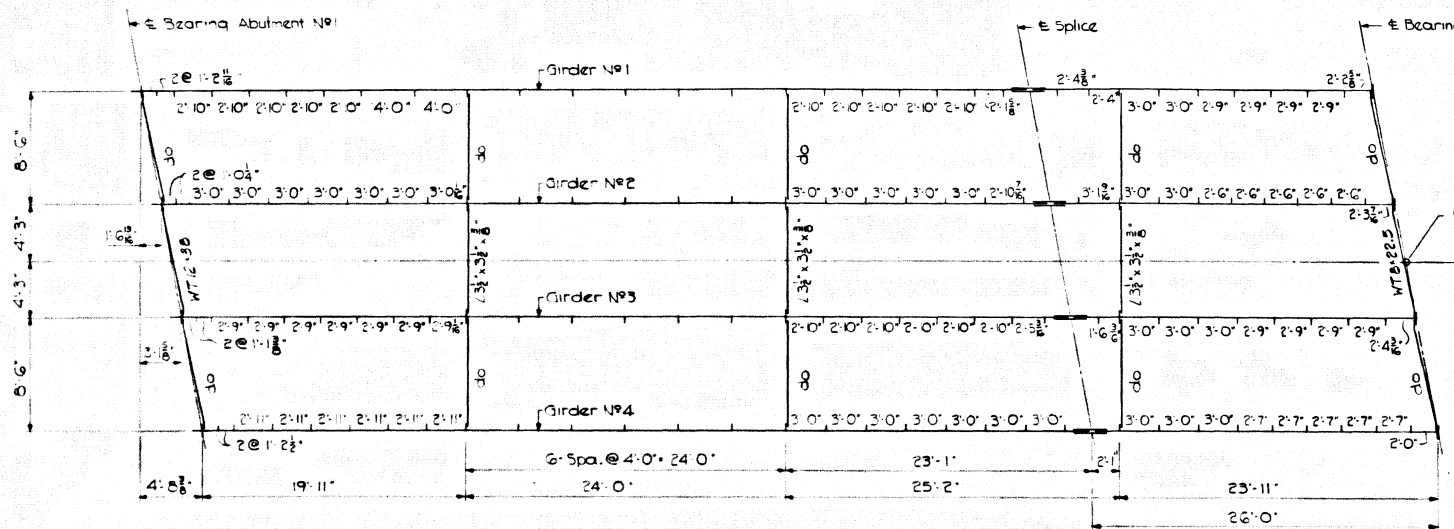
KY 124 1-24 SHEET 2

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 4499 + 89.66 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.
 18730

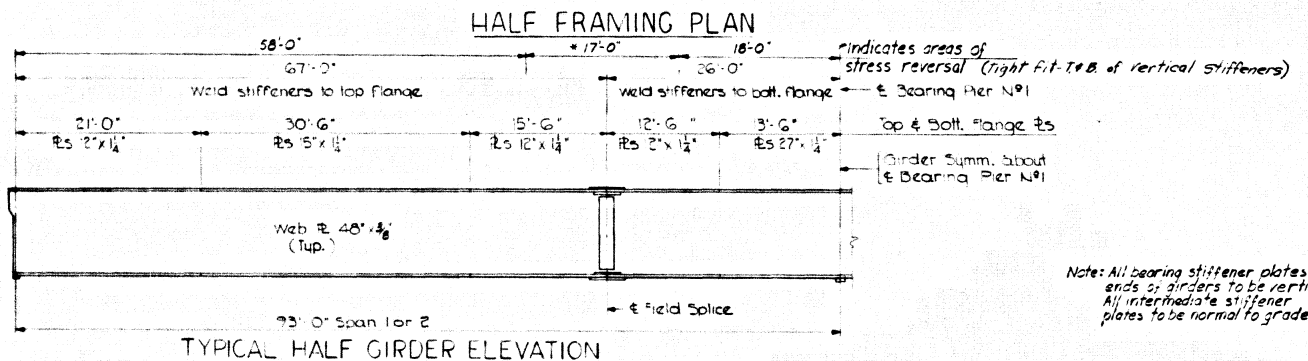
ABUTMENT NO. 2



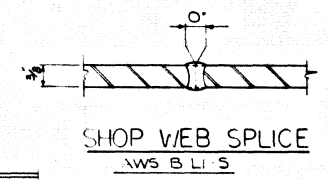
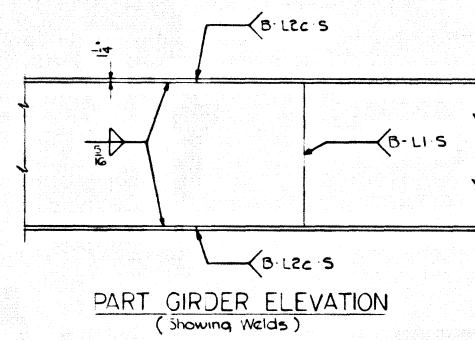
LETTING DATE



Flange to web welds to be single pass submerged arc fillet welds in the flat position. Parts are to be assembled with the edge of web tight against flange & before welding.

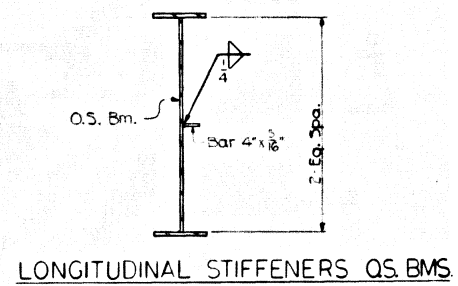
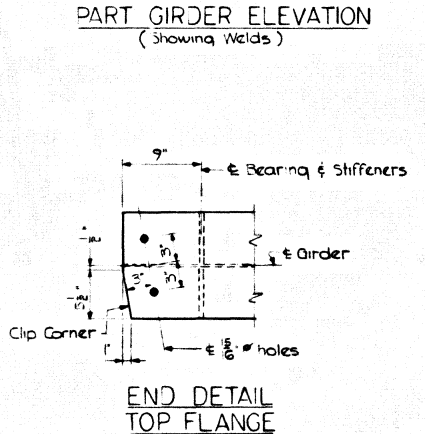
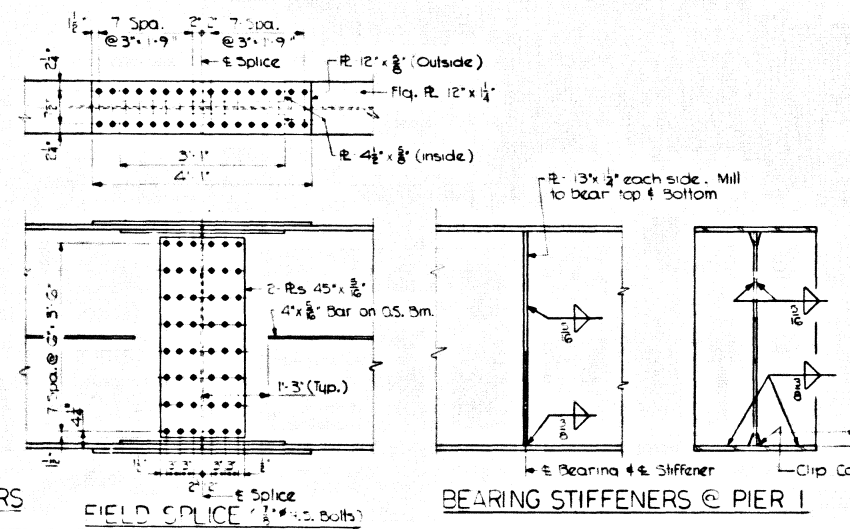
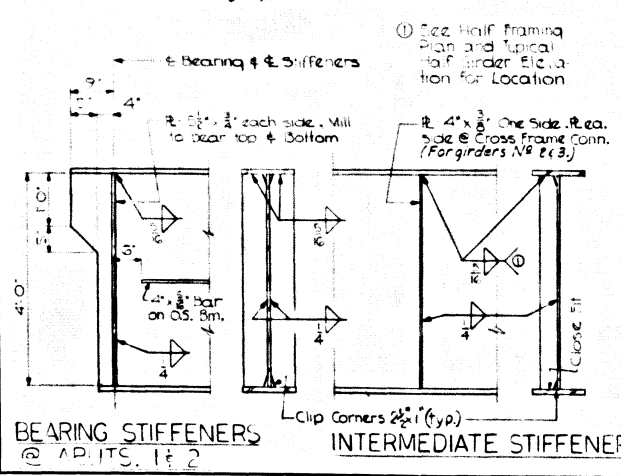


Note: All bearing stiffener plates & ends of girders to be vertical. All intermediate stiffener plates to be normal to grade.



Note: See WELDING note on sh. 2

NOTE: Terminate all stiffener to flange welds 2" from flange plates.

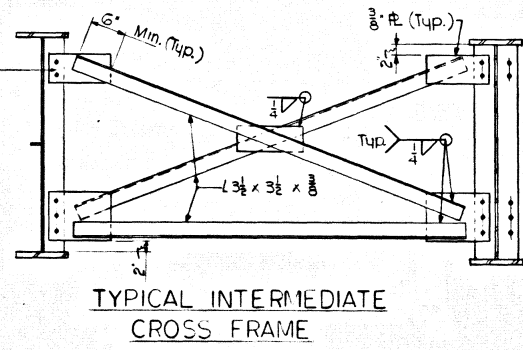
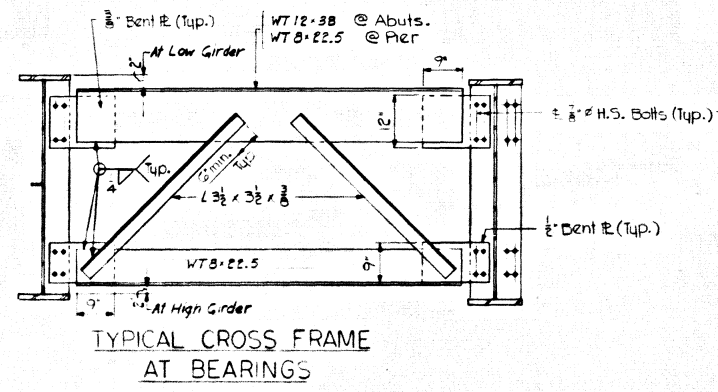


KY 124 over I-24 SHEET 13

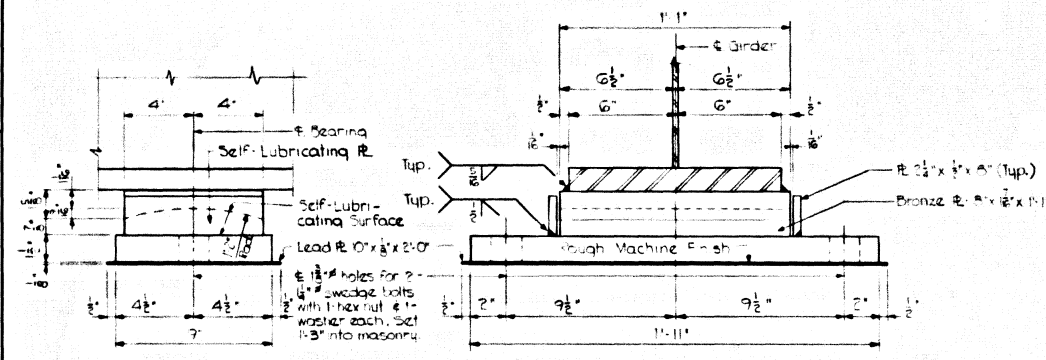
COMMONWEALTH OF KENTUCKY
BUREAU OF HIGHWAYS
FRANKFORT
COUNTY OF TRIGG
PADUCAH-TENN. STATE LINE
ROAD
STATION 422+89.46 P.E. PROJECT NO.
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO.
DRAWING NO. 18730

BRIDGE

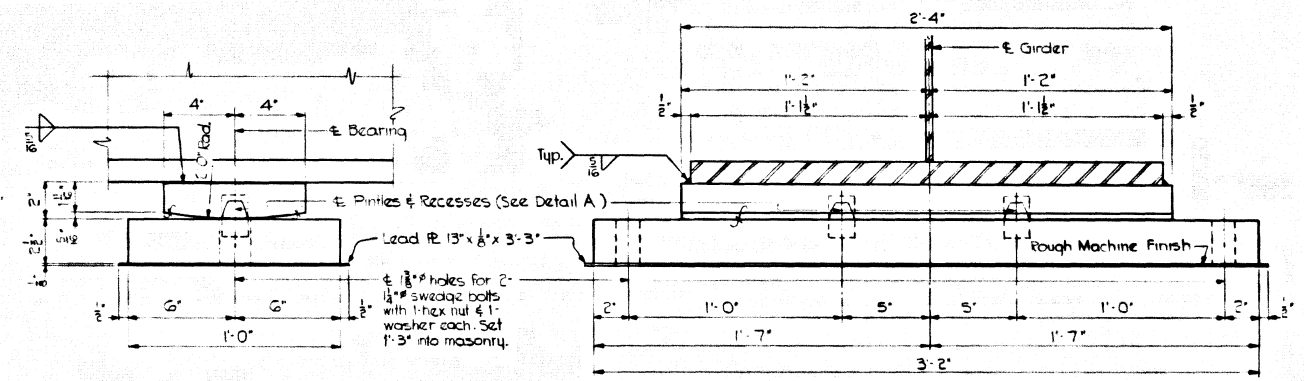
LETTING DATE



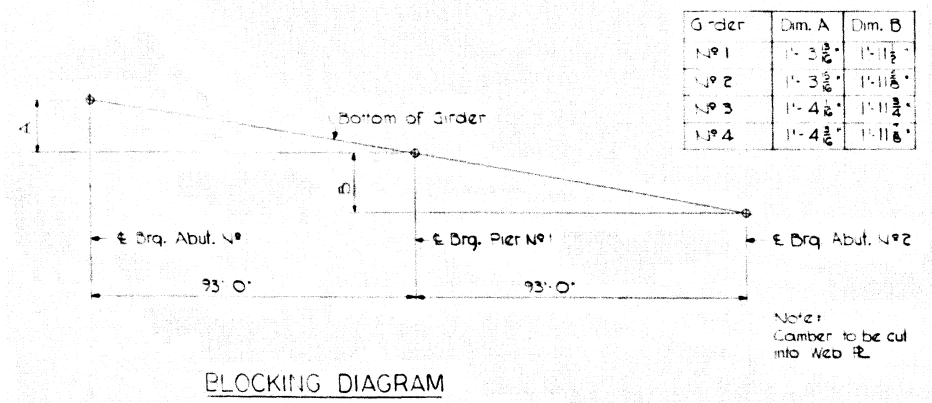
SURFACE FINISH OF STEEL - SPECIFICATIONS
 Steel Slabs. ANSI 2000
 Heavy plates in contact in shoes to be welded. ANSI 1000
 Milled ends of compression members stiffeners & fillers. ANSI 500
 Bridge rollers & trackers. ANSI 250



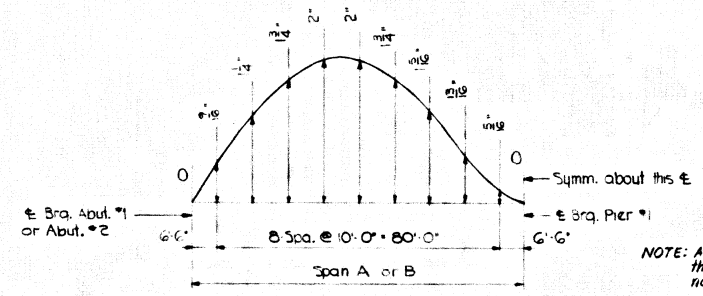
EXPANSION SHOE AT ABUTS. 1 & 2
 4 Required
 (Weight/Shoe Assy. = 106⁰), Max. Reaction = 100,370⁰



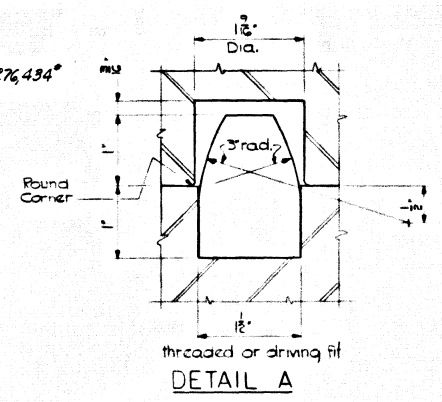
FIXED SHOE AT PIER 1
 4 Required
 (Weight/Shoe Assy. = 341⁰), Max. Reaction = 276,434⁰



BLOCKING DIAGRAM



CAMBER DIAGRAM
 TOTAL DEAD LOAD PLUS VERTICAL CURVE CORRECTION
 Note: Camber to be cut into 1/2\"/>



DETAIL A
 KY 124 OVER 124 SHEET 14

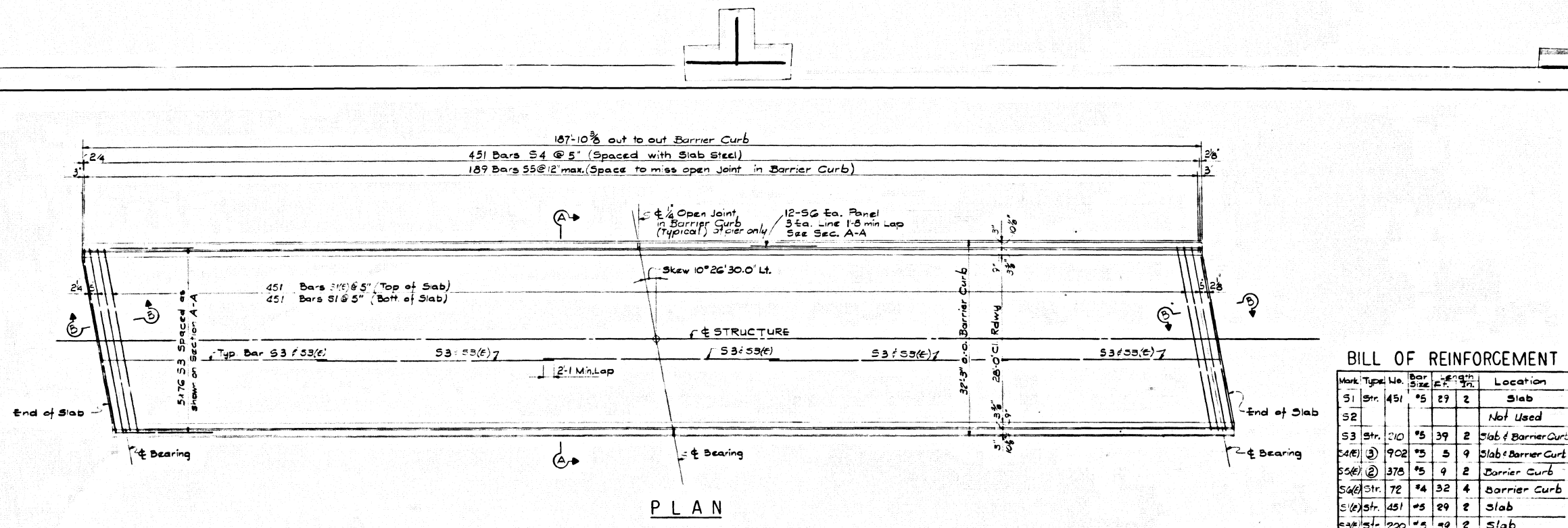
NOTE: All Structural Steel on this sheet is A36 unless noted.

SUPERSTRUCTURE

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 1499+89.46 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18730

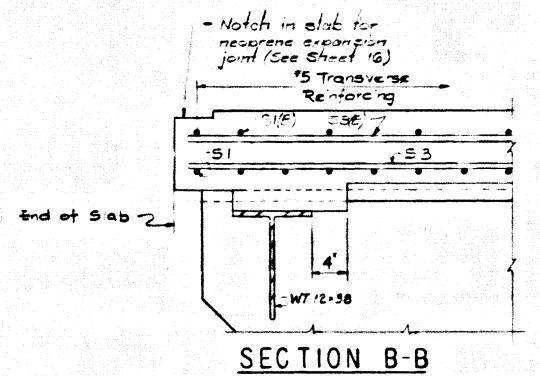
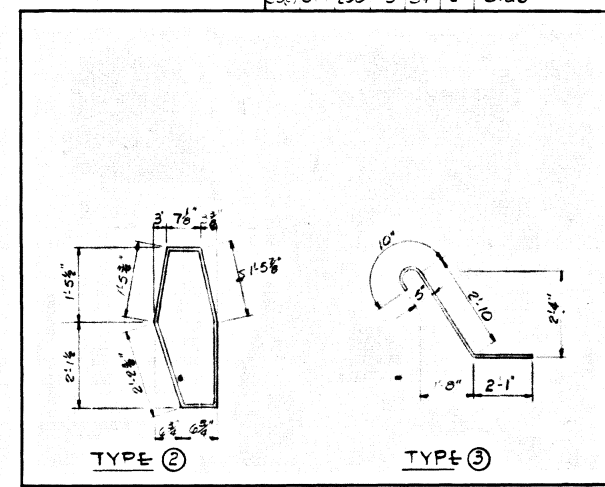
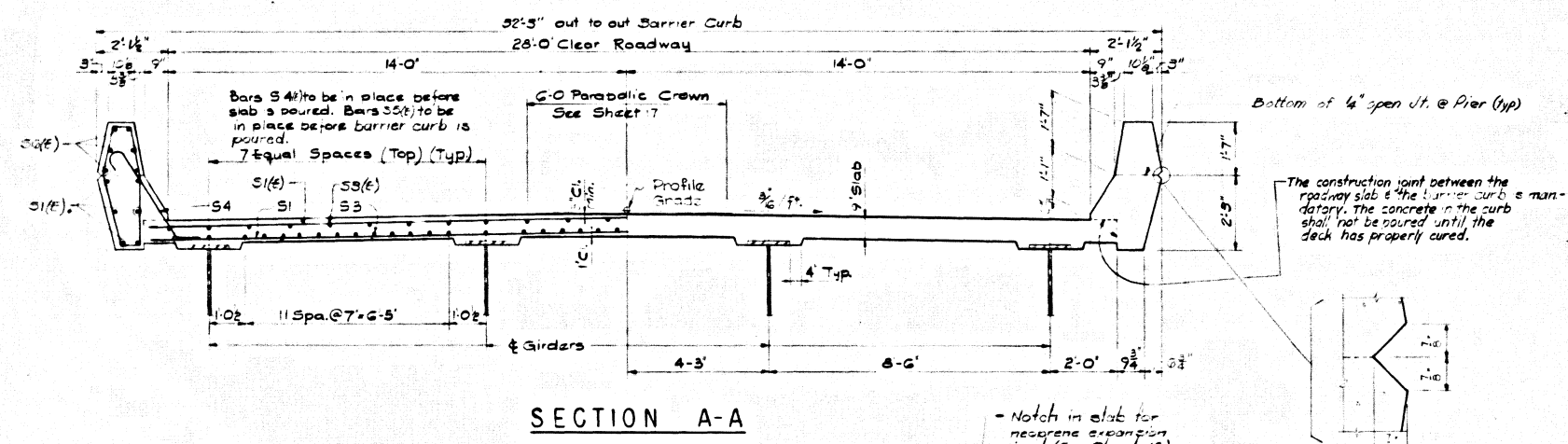
BRIDGE

LETTING DATE



BILL OF REINFORCEMENT

Mark	Type	No	Bar Size	Length Ft.	Ln.	Location
S1	Str.	451	#5	29	2	Slab
S2						Not Used
S3	Str.	210	#5	39	2	Slab & Barrier Curt.
S4(e)	Str.	902	#5	5	9	Slab & Barrier Curt.
S5(e)	Str.	378	#5	9	2	Barrier Curb
S6(e)	Str.	72	#4	32	4	Barrier Curb
S1(e)	Str.	451	#5	29	2	Slab
S3(e)	Str.	220	#5	39	2	Slab



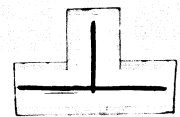
ESTIMATE OF QUANTITIES

Concrete Class AA	• 226.3 cu yd.
Epoxy Coated Steel Reinf.	• 32,463 lbs.
Non-Coated Steel Reinf.	• 22,293 lbs.

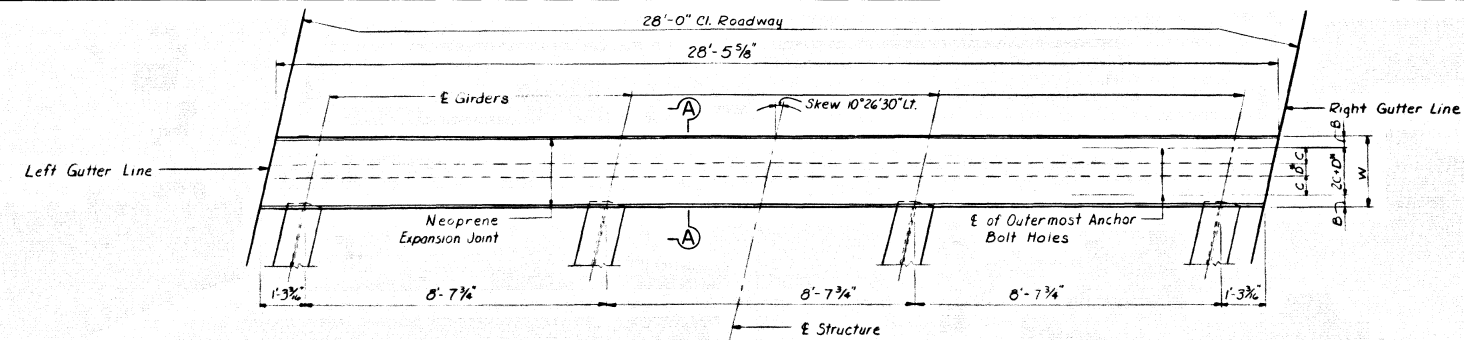
KY-24 OVER 7-24 SHEET 15

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 4477-29.46 P. E. PROJECT NO.
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 18730

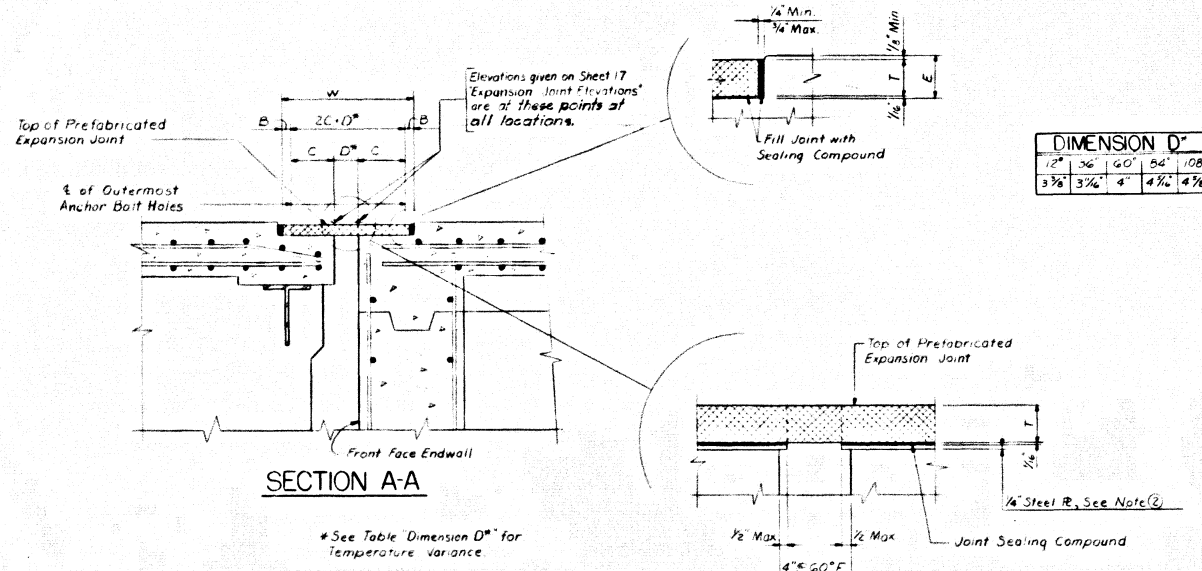
BRIDGE



LETTING DATE:



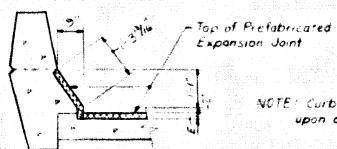
PLAN OF NEOPRENE EXP. JOINT



SECTION A-A

* See Table "Dimension D" for Temperature Variance.

DIMENSION D*	
2'	3/8"
3'	3/8"
4'	3/8"
5'	3/8"
6'	3/8"
8'	3/8"
10'	3/8"



SECTION THRU BARRIER CURB

NOTE: Curb treatment dependent upon option used.

This Detail Applicable to Fel-Span and Delastitex models only.

TABLE OF DIMENSIONS (1)					
TYPE	W	T	B	C	E
Fel-Span T-40	1'-7"	2 3/8"	2"	2 1/4"	2 1/2"
Transflex 400	1'-10 1/2"	2 3/8"	1 7/8"	7 1/4"	2 1/2"
Nabollex SR-4	1'-10"	2 3/8"	1 7/8"	7 1/4"	2 1/2"
Delastitex CP-400 (2)	1'-2 1/2"	2"	—	—	—

- These dimensions are given @ mid point temperature of 60°F.
- For this option only, a 1/2" x 5 1/2" steel plate is to be provided in addition to device hardware to enable the device to overhang the gap 1/2" on both sides.

GENERAL NOTES

The contractor shall provide a factory prefabricated expansion joint system as manufactured by Watson-Bowman Assoc. Inc. of Buffalo, New York; General Tire & Rubber Co. of Wabash, Indiana; Fel-Pro Inc. of Skokie, Illinois; The D.S. Brown Co. of North Baltimore, Ohio, or an approved equal. The particular model number for each of the above manufacturers is listed in the table, this sheet.

The expansion joints shall be fabricated to follow the contour of the roadway and up the barrier to an elevation 1'-3" above finished roadway.

The manufacturer of the prefabricated joint shall prepare shop drawings showing details of the assembly. Three sets of shop drawings shall be submitted to the Engineer for review. Approval of the shop drawings shall be required prior to the make-up of components of the joint.

Anchor bolt holes to be drilled with rotary type drill.

Dimensions shown in the table this sheet shall be verified as acceptable by the manufacturer.

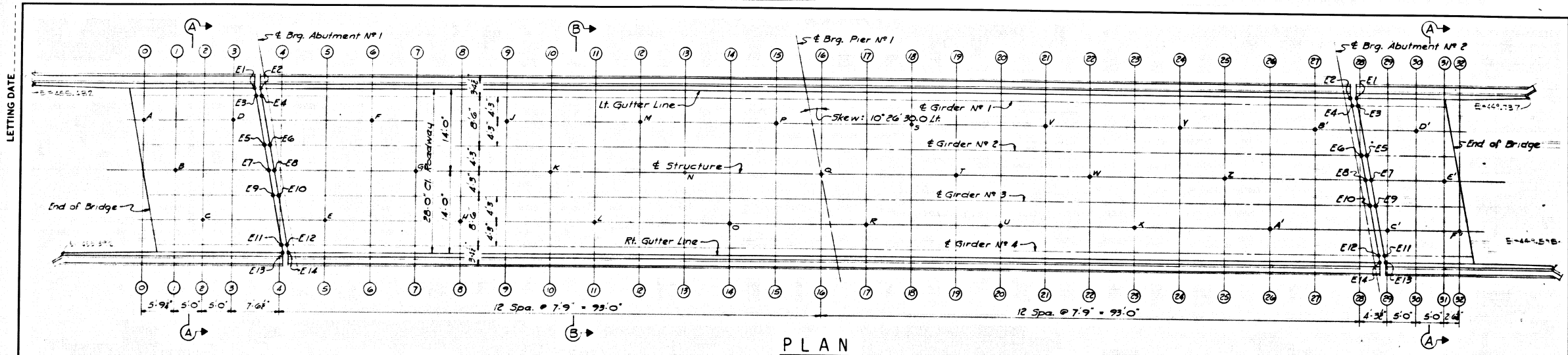
1:24 = 1" = 3'-0"

SHEET 10

COMMONWEALTH OF KENTUCKY			
BUREAU OF HIGHWAYS			
FRANKFORT			
COUNTY OF TRIGG			
PADUCAH-TENN STATE LINE			
ROAD			
STATION 14+00 TO 14+50	P.E. PROJECT NO.	DRAWING NO.	
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	1A730	

EXPANSION SYSTEM DETAILS





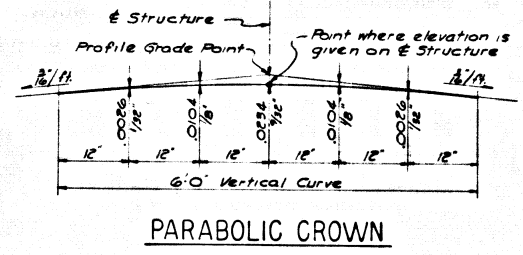
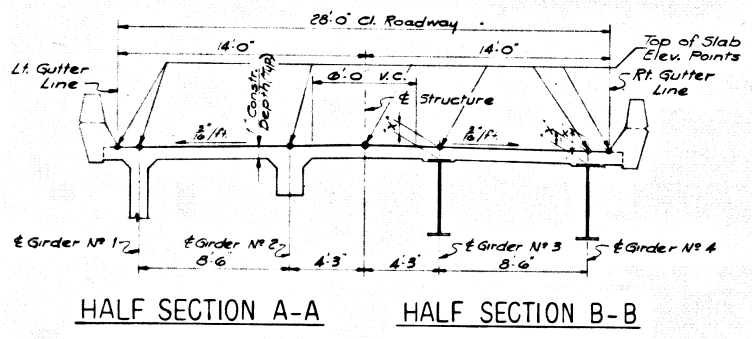
PLAN

TABLE OF ELEVATIONS

Location	Lt. Gutter Line			E Girder No 2			E Structure			E Girder No 3			Rt. Gutter Line			
	Constr. El.	Top Steel	Dim. X	Constr. El.	Top Steel	Dim. X	Top Conc.	Constr. El.	Top Steel	Dim. X	Constr. El.	Top Steel	Dim. X	Constr. El.	Top Steel	Dim. X
0	454.021			454.74			454.217							453.967		
1	453.967			454.163			454.163	454.20						453.918		
2	453.918			454.072			454.115	454.072						453.867		
3	453.867			454.020			454.023	454.020						453.817		
4	453.795			453.962			453.982	453.939						453.717		
5	453.734			453.881			453.921	453.875						453.650		
6	453.662			453.810			453.851	453.806						453.572		
7	453.580			453.729			453.771	453.727						453.483		
8	453.487			453.628			453.681	453.637						453.383		
9	453.382			453.535			453.578	453.535						453.271		
10	453.267			453.421			453.465	453.422						453.150		
11	453.141			453.297			453.342	453.300						452.998		
12	453.007			453.164			453.209	453.167						452.880		
13	452.869			453.025			453.069	453.028						452.737		
14	452.728			452.884			452.928	452.887						452.594		
15	452.589			452.742			452.786	452.744						452.451		
16	452.451			452.604			452.647	452.604						452.313		
17	452.318			452.468			452.510	452.466						452.176		
18	452.185			452.335			452.376	452.332						452.041		
19	452.052			452.201			452.242	452.198						451.904		
20	451.915			452.063			452.105	452.060						451.762		
21	451.771			451.920			451.962	451.917						451.622		
22	451.616			451.767			451.810	451.766						451.451		
23	451.452			451.604			451.647	451.604						451.279		
24	451.275			451.430			451.474	451.431						451.097		
25	451.089			451.244			451.288	451.246						450.903		
26	450.891			451.047			451.090	451.051						450.699		
27	450.682			450.840			450.884	450.846						450.484		
28	450.476			450.628			450.671	450.631						450.369		
29	450.369			450.522			450.565	450.522						450.243		
30	450.243			450.397			450.440	450.397						450.116		
31	450.116			450.268			450.311	450.268						450.051		
32							450.249	450.203								

LETTING DATE: _____
 DATE: _____
 SCALE: _____
 DRAWN BY: _____
 CHECKED BY: _____

CONSTRUCTION NOTES
 Lay out Section 0-0 to 32-32 as shown in plan on this sheet.
 Take elevations on top of steel at points indicated after cross frames are in place and after all
 falsework has been removed but before forms for concrete slabs have been put in place.
 Read elevations to three decimals using a target rod and enter readings in table under top
 of steel.
 Compute dimension X as follows: Construction elevation minus top of steel elevation equals
 dimension X. Construction elevations include camber due to weight of concrete slab, barrier
 curb and future surfacing.
 For setting templates measure dimension X above top of steel for top of template. Do not set
 templates by elevations.
 Do not add camber to barrier curb.
 Measuring of Dimension X gives the final check on beam tolerances for camber beam damage & errors in erection
 that produce reverse cambers, sags & unsightly fascia beams.



EXPANSION JT. ELEVATIONS

Location	Abut. No. 1	Abut. No. 2
E1	453.828	450.508
E2	453.825	450.516
E3	453.845	450.522
E4	453.842	450.530
E5	453.961	450.616
E6	453.958	450.624
E7	453.996	450.640
E8	453.992	450.648
E9	453.944	450.577
E10	453.941	450.586
E11	453.794	450.466
E12	453.791	450.414
E13	453.772	450.380
E14	453.769	450.388

TABLE OF ELEVATIONS FOR CONTROL OF SLAB THICKNESS

Slab Check Point	Top Slab Elevation	Bottom Slab Elevation	Computed Slab Thickness	Slab Check Point	Top Slab Elevation	Bottom Slab Elevation	Computed Slab Thickness
A	454.108			R	452.400		
B	454.163			S	452.269		
C	454.006			T	452.242		
D	453.954			U	451.992		
E	453.876			V	451.856		
F	453.748			W	451.810		
G	453.771			X	451.598		
H	453.571			Y	451.364		
J	453.469			Z	451.288		
K	453.465			A'	450.987		
L	453.734			B'	450.771		
M	453.096			C'	450.456		
N	453.069			D'	450.331		
O	452.871			E'	450.311		
P	452.676			F'	450.137		
Q	452.247						

SLAB THICKNESS CONTROL
 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.
 The slab thickness shall then be computed. If the computed thickness varies more than 1/4" from the plan thickness, allowing 1/32" of the slab span for deflection of the formwork, the form shall be adjusted until the computed slab thickness is within the tolerance.

CONSTRUCTION ELEVATIONS

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 1499 - 89.46
 P. E. PROJECT NO. _____
 CONSTRUCTION PROJECT NO. _____ MAINTENANCE PROJECT NO. _____
 DRAWING NO. 18730

BRIDGE

LETITIG DATE

TABLES of ELEVATIONS

	END OF BR (ASUT #1)	E BRG ABUT #1	E BRG PIER #1	E BRG ABUT #2	END OF BR (ASUT #2)
LT GUTTER	454.044	452.815	452.497	450.539	450.118
GIRDER #1	454.062	453.832	452.512	450.553	450.131
GIRDER #2	454.080	453.850	452.530	450.571	450.149
GIRDER #3	454.098	453.868	452.548	450.589	450.167
GIRDER #4	454.116	453.886	452.566	450.607	450.185
RT GUTTER	453.997	453.758	452.405	450.412	449.984

Location	Girder No. 1			Girder No. 4		
	Const. El.	Top Steel	Dim. X"	Const. El.	Top Steel	Dim. X"
0	454.041					
1	453.987			453.987		
2	453.933			453.933		
3	453.879			453.879		
4	453.825			453.825		
5	453.771			453.771		
6	453.717			453.717		
7	453.663			453.663		
8	453.609			453.609		
9	453.555			453.555		
10	453.501			453.501		
11	453.447			453.447		
12	453.393			453.393		
13	453.339			453.339		
14	453.285			453.285		
15	453.231			453.231		
16	453.177			453.177		
17	453.123			453.123		
18	453.069			453.069		
19	453.015			453.015		
20	452.961			452.961		
21	452.907			452.907		
22	452.853			452.853		
23	452.799			452.799		
24	452.745			452.745		
25	452.691			452.691		
26	452.637			452.637		
27	452.583			452.583		
28	452.529			452.529		
29	452.475			452.475		
30	452.421			452.421		
31	452.367			452.367		
32	452.313			452.313		

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____

KY 24 OVER I-24 SHEET 18

COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF
 TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 P. E. PROJECT NO. _____
 STATION _____
 CONSTRUCTION PROJECT NO. _____ MAINTENANCE PROJECT NO. _____ DRAWING NO. 18730

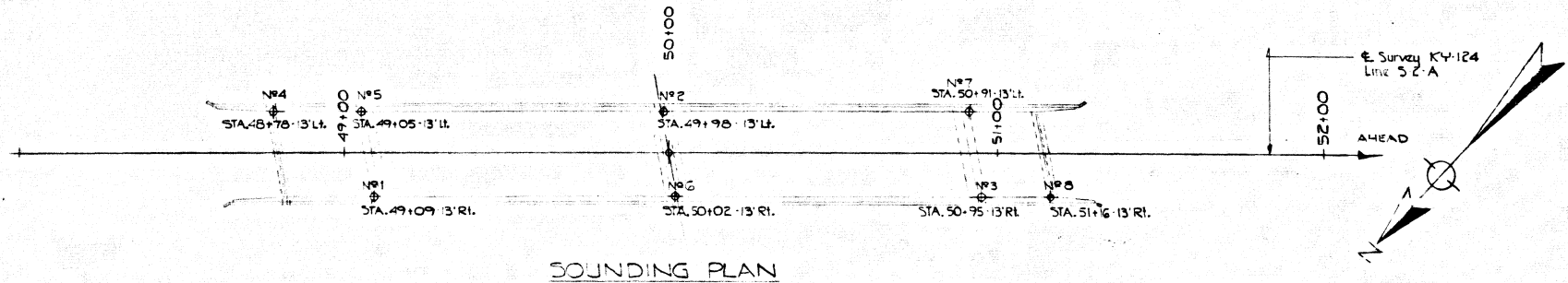
CONSTRUCTION ELEVATIONS

BRIDGE

PRO. SHEET NO.	DATE	NO. OF SHEETS	THIS SHEET NO.	TOTAL SHEETS
7	KY.			

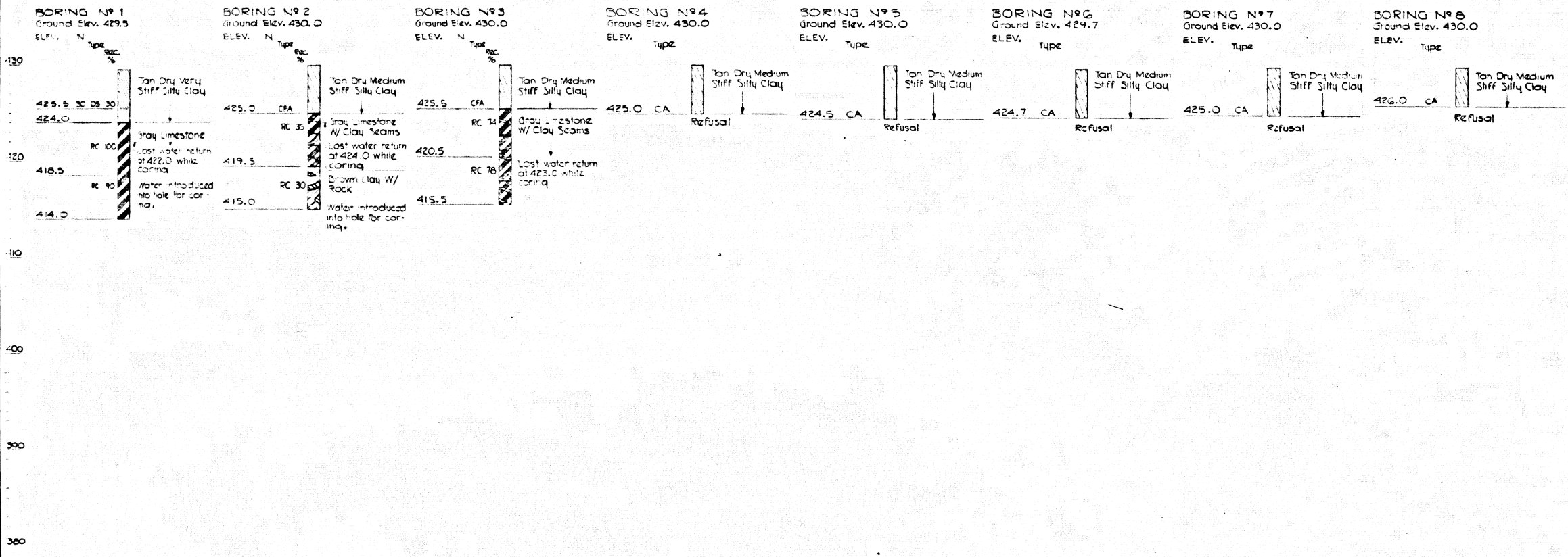
LEGEND

N = Number of blows required to drive a 2" O.D. Sampler 1 foot with a 140 lb hammer falling 30 inches.
 REC = Percentage of mass recovered.
 Type = Type of sampler used:
 DS = Driven Split Spoon
 RC = Rock Core
 CFA = (CA) Continuous Flight Auger



SOUNDING PLAN

PLANS PREPARED BY
 AMERICAN ENGINEERING
 TESTING & SURVEYING
 CORPORATION
 1000 EAST 10TH AVENUE
 DENVER, COLORADO 80202
 DATE: 3-27-53
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]



KY 124 OVER I - 24 SHEET 9
COMMONWEALTH OF KENTUCKY
 BUREAU OF HIGHWAYS
 FRANKFORT
 COUNTY OF
TRIGG
 PADUCAH-TENN. STATE LINE
 ROAD
 STATION 4499+89.46 PROJECT NO.
 BRIDGE NUMBER 18730

SOUNDINGS

