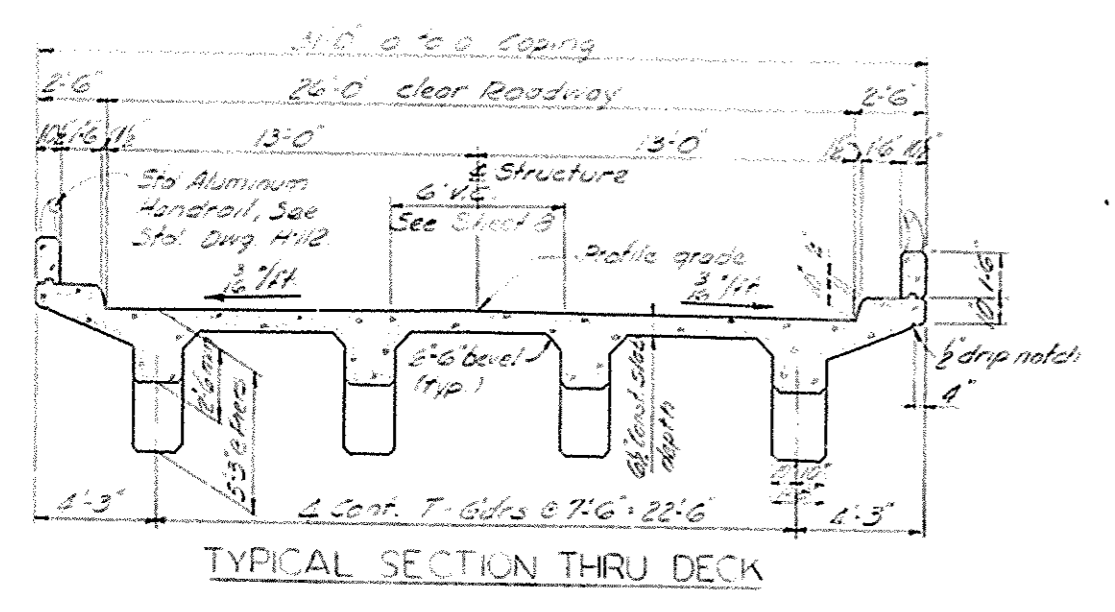
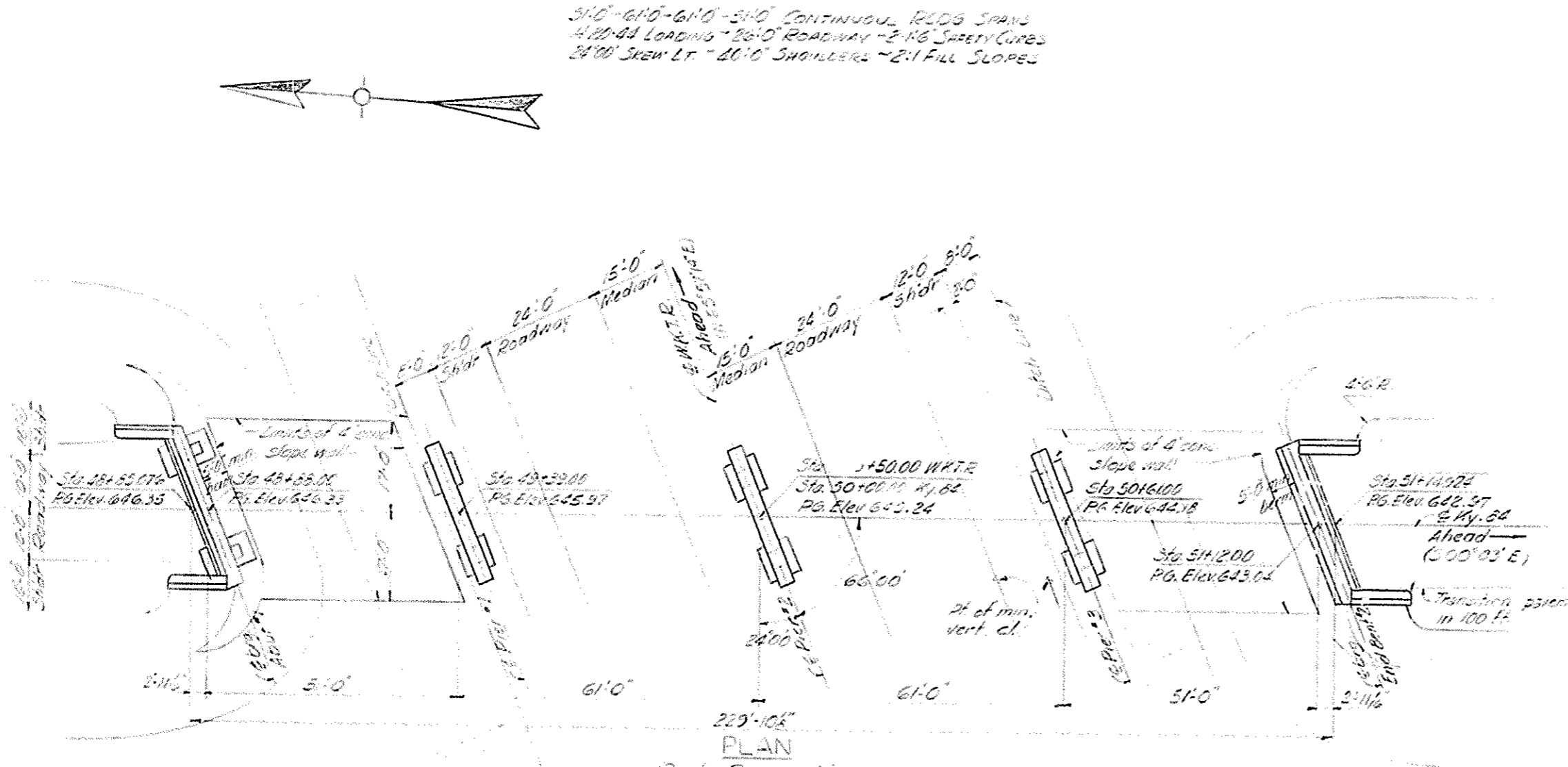
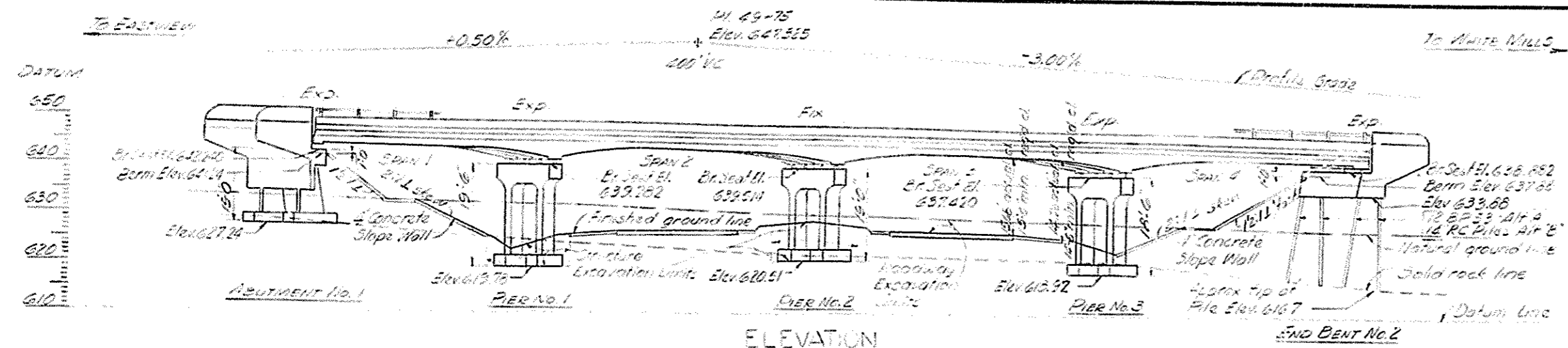


REV. NO.	DATE	BY	REASON
1			
2			

GENERAL NOTES

Specifications: Kentucky Department of Highways, 1956 Standards with Amendments.
 Design Load: Bridge designed for H20-44 loading as specified in KAS-O 1957 Specifications.
 Spans are designed for 16 kip wheel load.
 Design Stresses: For reinforced concrete, $f_c = 20,000$ psi, $f_s = 20,000$ psi, $f_t = 3,000$ psi, $f_w = 20,000$ psi for unbraced and 300 psi for EA.
 Concrete: Class A concrete is to be used throughout except in piles. Class D concrete is to be used in piles.
 Reinforcement: Intermediate or Hard grade reinforcement shall be used in accordance with ASTM A15-56T for mild steel or A16-56T for hot steel. 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 $\frac{1}{2}$ " unless otherwise shown.
 Expansion Joint Material: The cost of this item is to be included in the unit price bid for class A concrete.
 Structure, Steel: Lump Sum Bid for structural steel shall be for payment for all structural steel, rivets, bolts, washers, steel pins, lead plates, molten lead, welding and welding materials, paint and all labor and materials necessary to erect the steel in accordance with the plans and specifications.
 Piling: Piles: Embankment shall be placed in compacted layers to bottom of bent gap elevation. Before driving piles for end bent, embankment shall be placed simultaneously in front and back of end bent and abutment in compacted layers and the 5 ft. minimum berm provided as shown on the plans before placing shoring and forms for the end spans.
 Piling: Piling shall be driven to solid rock.
 Test Piles: 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 the following types throughout:
 Alternate A - 12 BP-53 Steel Piles, Std. Dwg. P-17.
 Alternate B - 12" RC Precast Piles, Std. Dwg. P-2.
 Slope Protection: Slope protection shall be 4" concrete Slope Wall in accordance with Standard Drawing S-11.
 Paint: All structural steel except pins and pin bearing surfaces shall be given one shop coat of type 1 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.
 Construction Joints: All construction joints shall be carefully formed. The contractor shall furnish sufficient mixer capacity to place the concrete between construction joints as noted on the plans in a period not exceeding ten hours continuous run. After one section of the concrete has been placed, the construction joint shall be thoroughly cleaned of all excess, loose and foreign material, just before the concrete takes its final set, which is about six hours. The joints shall then be covered with burlap and left completely saturated with water. Flush the joints with 1:2 Portland Cement mortar just before closing the adjoining section.
 Falsework: The falsework supporting the girders and slab in any span of the continuous reinforced concrete unit shall not be removed until all girders and slabs in all spans of the continuous unit have been poured for at least twenty-one days.
 Driving Concrete Piles: For RC Precast or Prestressed Piles, cored holes thru the embankment will be required for starting piles.
 The cost of this work is to be included in the unit price bid per linear foot for driving piles.
 Wind Loads: This structure designed using wind loads based on wind velocity of 64 mph. Foundation Pressure: Footings are designed for a maximum pressure of 20,000 psi for Group 1 loading.



REFERENCE AND ESTIMATE OF QUANTITIES

ITEM	SHEET NO.	CLASS A CONCRETE Cu Yd	REINF STEEL LB	STRUCTURE STEEL * Lump Sum Bid	STRUCTURE EXCAVATION Cu Yd	ALUMINUM HANDRAIL Lin Ft.	SLOPE PROTECTION-4 REINF CONC SLOPEWALL Sq Yd	12" RC PRECAST ALTERNATE A Lin Ft.	12" RC PRECAST ALTERNATE B Lin Ft.	4" RC PRECAST PILES Lin Ft.
GENERAL PLAN	1									
SOUNDINGS	2									
PILE RECORD	3									
ABUTMENT NO. 1	4, 5, 7	19.2	6,787	30	15		152	140	140	140
END BENT NO. 2	5, 7	21.0	4,879							
PIER NO. 1	6, 7	27.9	4,152	0	15					
PIER NO. 2	6, 7	27.6	4,128	20	5					
PIER NO. 3	6, 7	27.3	4,089	10	10					
SUPERSTRUCTURE	8, 9, 10	35.0	121,017	1		451.8				
ELEVATIONS	11									
TOTALS		531.9	145,052	1	60	451.8	335	140	140	140

* Approximate weight of structural steel is 13,319 lbs.

BILL OF INCIDENTAL MATERIAL

ITEM	NO.	DESCRIPTION
PREPARED MATERIAL	2	6" x 6" x 6" 3" x 3" ALUMINUM

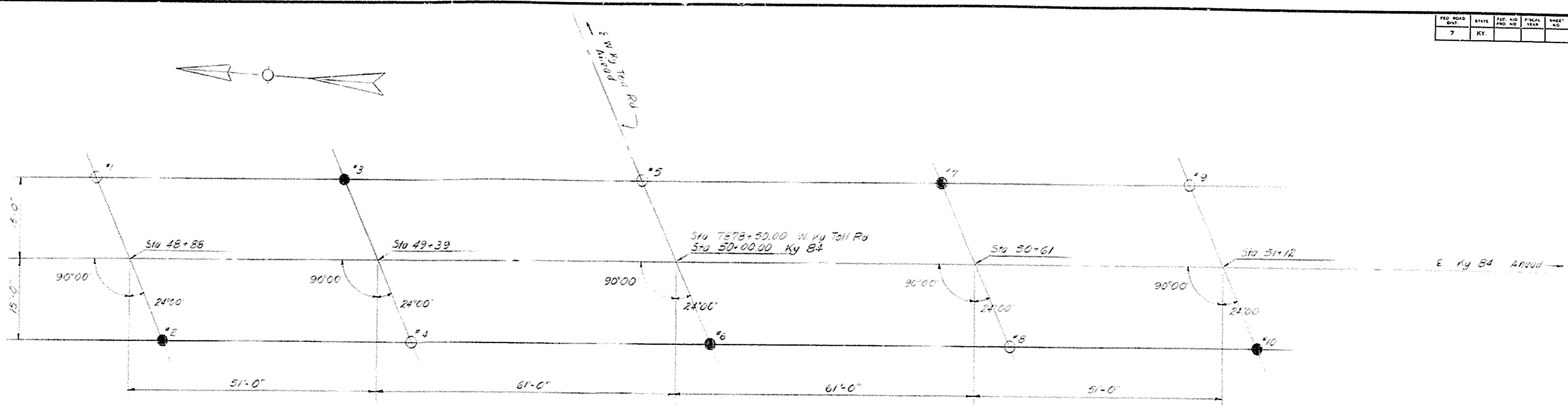
NOTE: Quantities shown in Bill of Incidental Material are approximate only and the contractor is responsible for furnishing enough material to complete the work according to plans and specs.

STANDARD DRAWING

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF HARDIN
 WEST KENTUCKY TOLL ROAD
 PRINCETON - ELIZABETH-TOWN

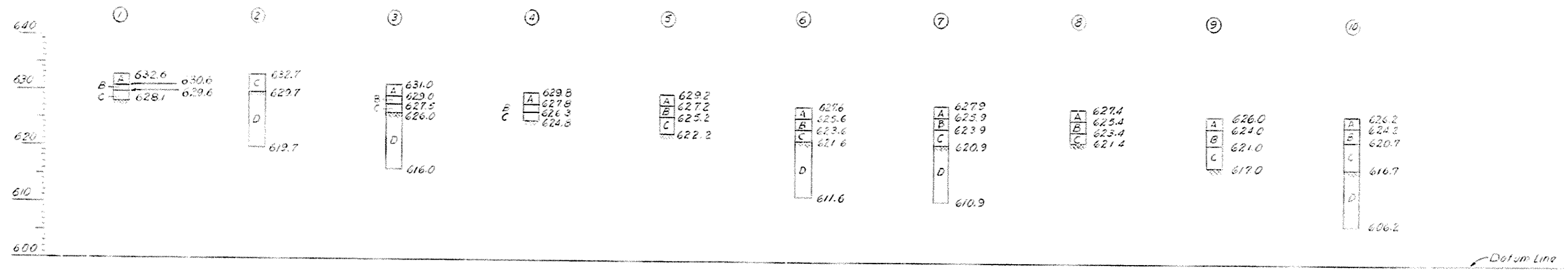
STATION 7+72 + 50.00 PROJECT NO.
 BRIDGE NUMBER WKTR 8-2-5 DRAWING NO. 1-4, 811
 SHEET NO. 2





PLAN

○ Indicates soundings to solid rock.
● Indicates cored 10' into solid rock.



ELEVATION

LEGEND

- A Red clay with gravel
- B Dark red clay with gravel
- C Dark red stiff clay with gravel
- D Light gray sandy limestone

SOUNDINGS

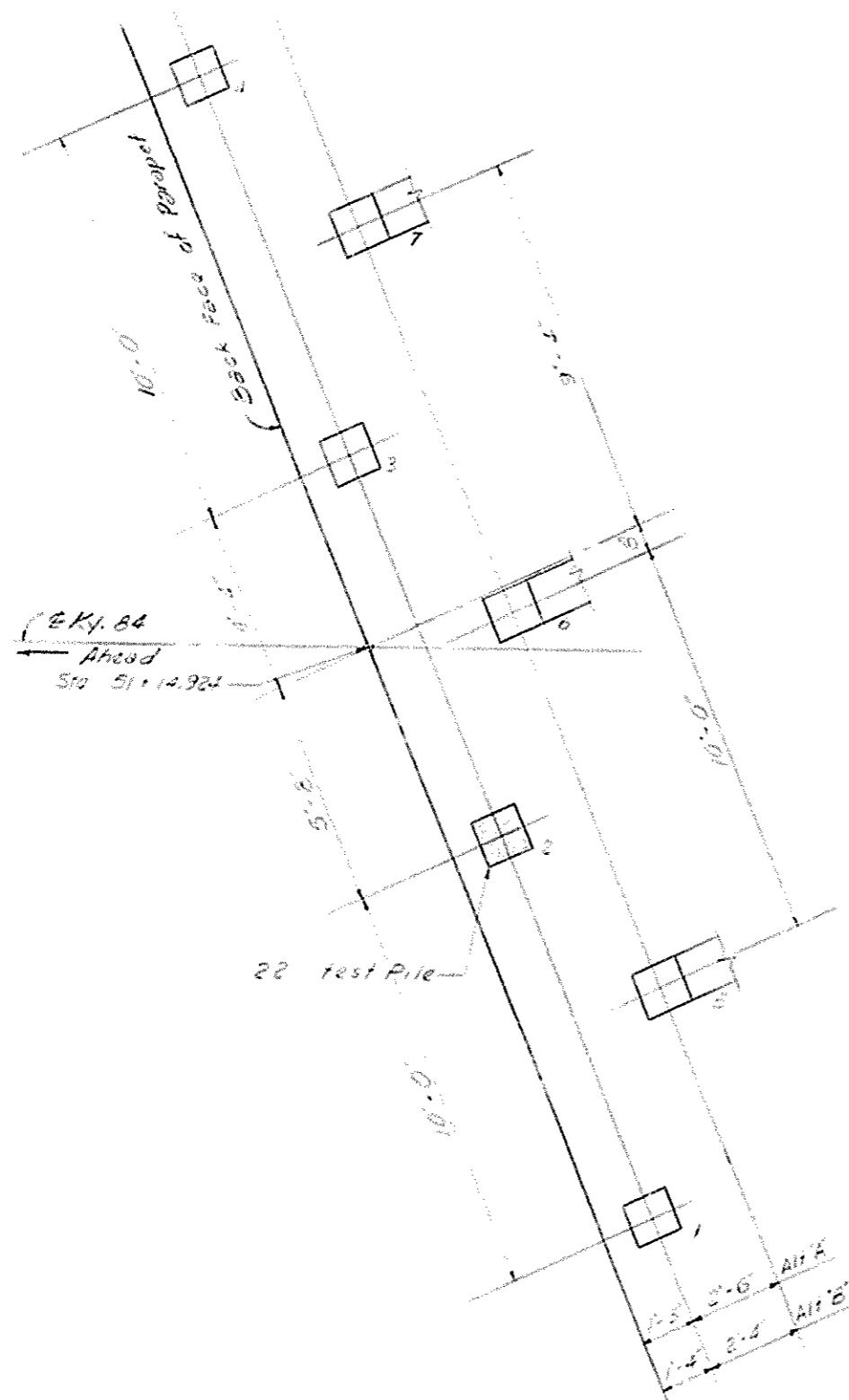
DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Date]
 TRACED BY: [Signature]
 DATE: [Date]

KY. 24 SHEET 2 OF 11

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
HARDIN
 WEST KENTUCKY TOLL ROAD
 PRINCETON-ELIZABETHTOWN
 ROAD

STATION 7878 + 50.00 PROJECT NO. [Blank]
 BRIDGE NUMBER W.K.T.R. 8-2-5 CONTROL NO. 14, E11 (8-2) DRAWING NO. 110 INDEX





END BENT NO 2

PILE RECORD						
Location	Pile No.	Cut-off Elev. Shown on Plans Alt A	Cut-off Elev. Shown on Plans Alt B	Tip of Pile Elev. as Driven	Pile Length in place (Lin Ft)	Calculated Bearing Capacity (Tons)
End Bent #2	1	636.88	634.38			
"	2	"	"			
"	3	"	"			
"	4	"	"			
"	5	"	"			
"	6	"	"			
"	7	"	"			

PILING NOTES

This pile record does not replace the 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 elevation as driven, length of pile in place, and calculate the bearing capacity of each pile, and return one blue print copy of this sheet with this data to the Director of Bridges to be recorded on the original plans. Length of piles in place shown in this record are the actual length of piles in the finished structure below cut-off elevation and are not necessarily the pay item.
 Alternate A is for 12" BP's 53, For Details see old Drawg P-7.
 Alternate B is for 14" Precast RC Piles, for Notes and Details see standard Drawing P-2.

DESIGNED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 REVISIONS:
 REVISED: _____ DATE: _____
 REVISED: _____ DATE: _____

KY 84 SHEET 3 OF 11

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
HARDIN
 WEST KENTUCKY TOLL ROAD
 PRINCE TON-ELIZABETH TOWN
 ROAD

STATION 7575+5000 PROJECT NO. _____

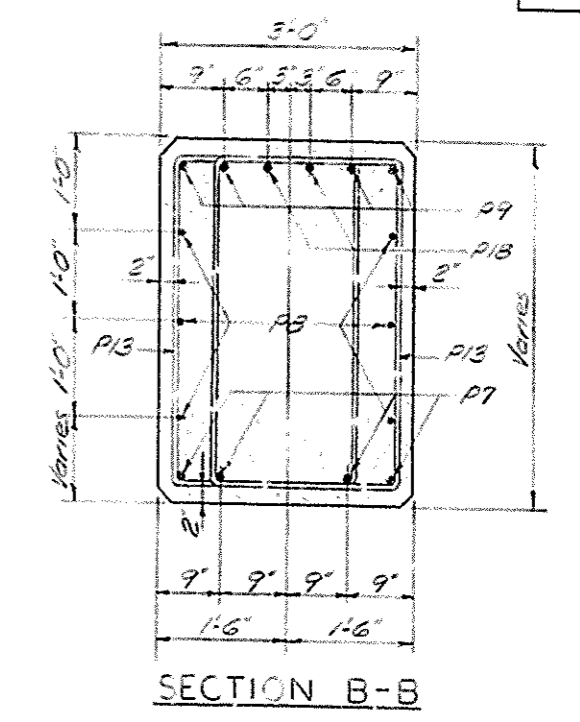
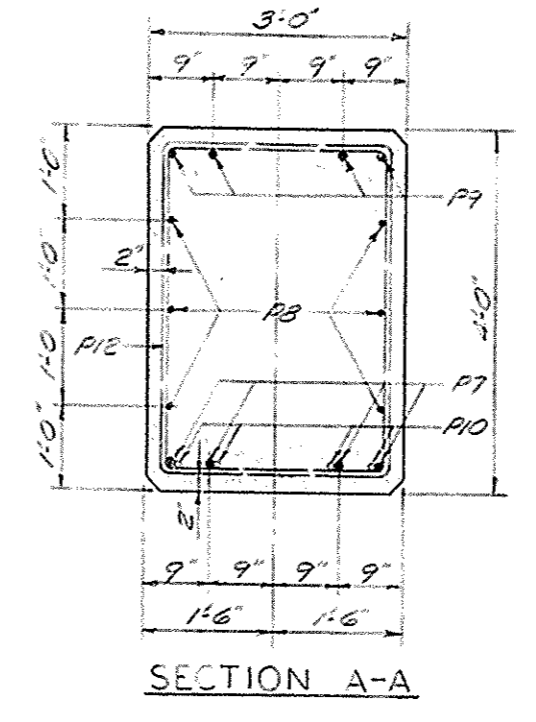
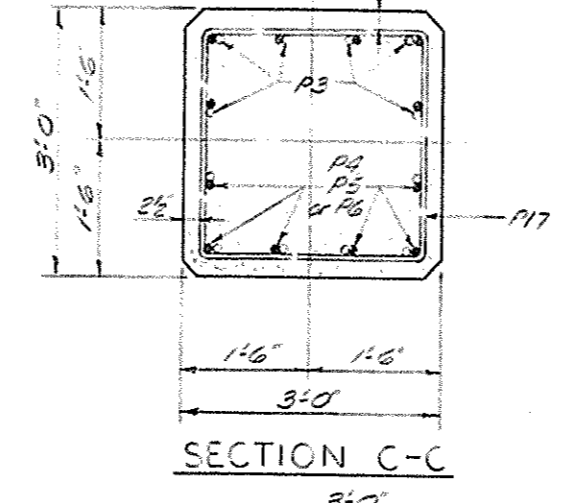
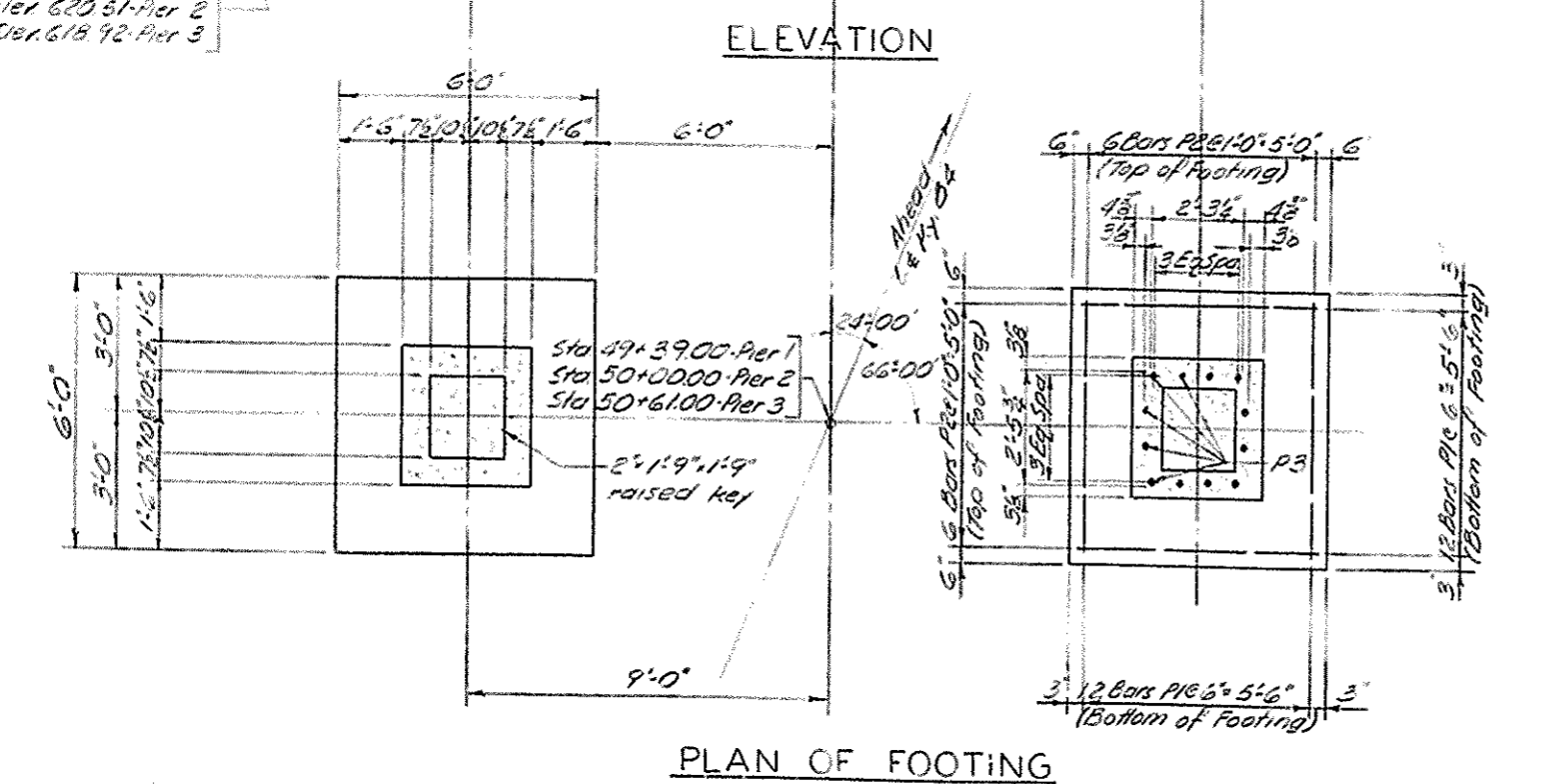
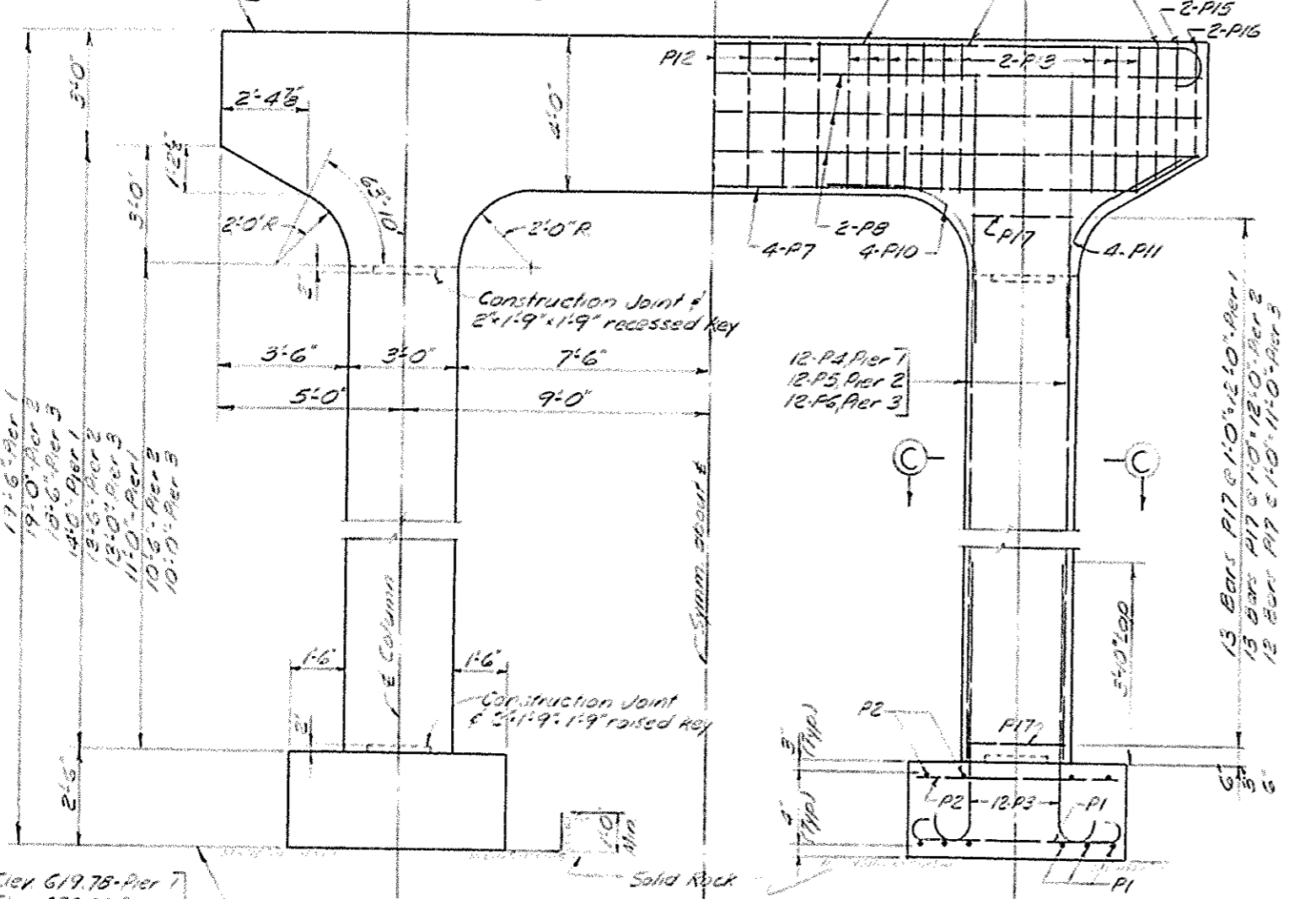
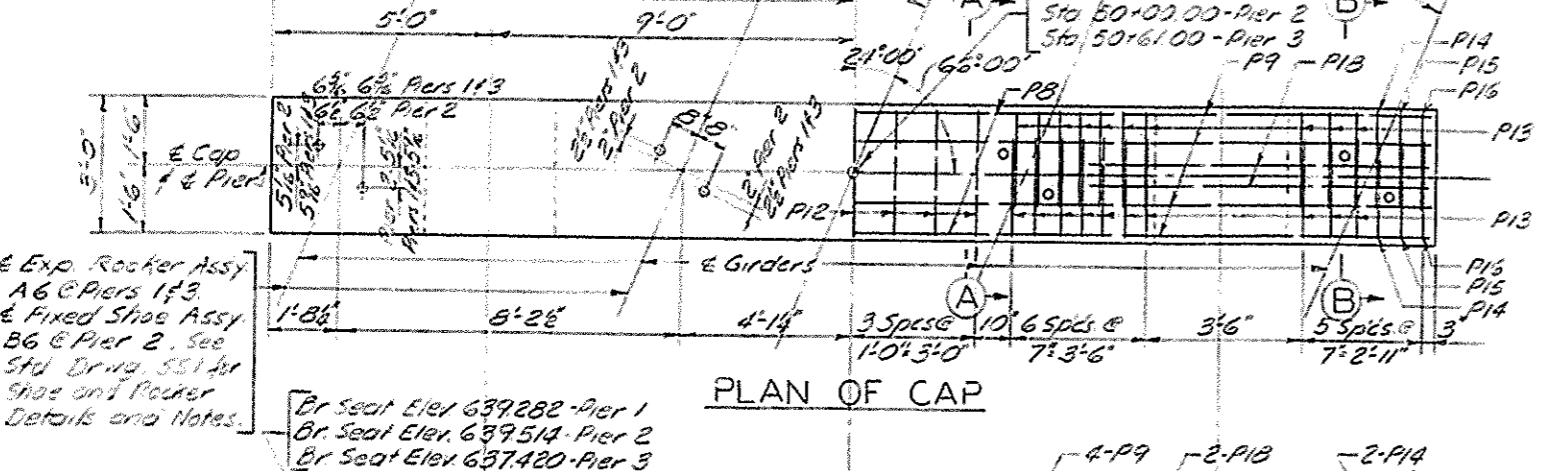
BRIDGE NUMBER WKTR 8-2-5	CONTROL NO. (8-2)	DRAWING NO. 14,611	INDEX
--------------------------	-------------------	--------------------	-------

PILE RECORD



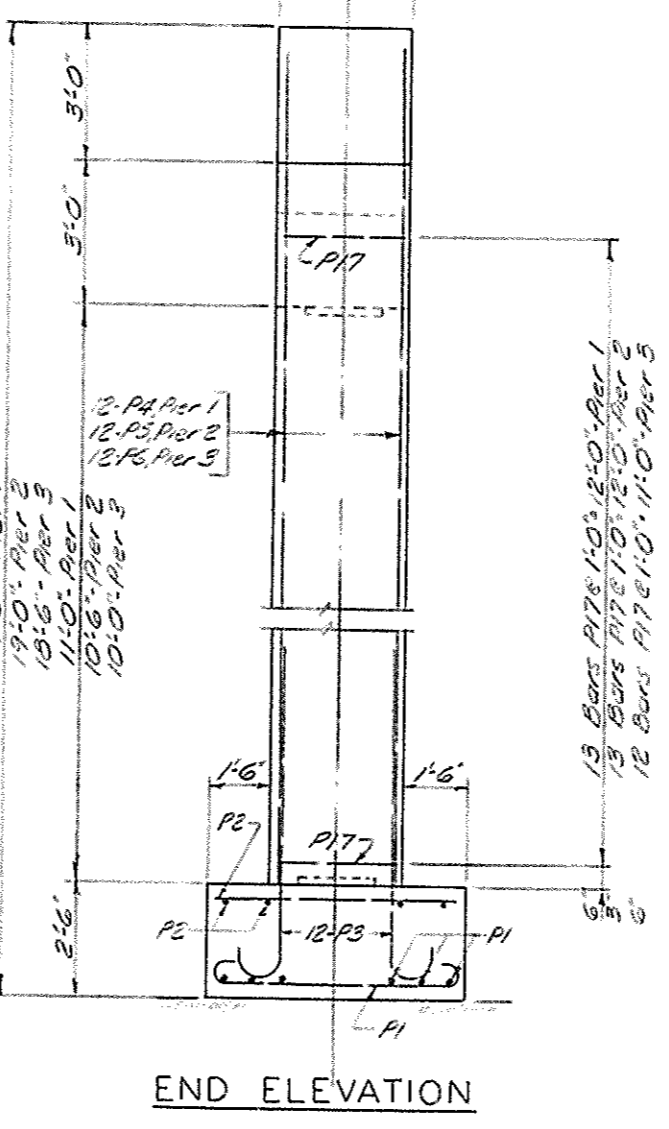
FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KY				

NOTE-
Care to be used in placing Bars P7, P12, P13, P14, P15 to provide clearances for Anchor Dowels. See Anchor Bolt Note.



ANCHOR BOLT NOTE-

Holes of depths and dimensions shown (see Std. Draw. 551) shall be drilled for anchor bolts or dowels by the superstructure 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, molten lead shall be poured in holes and packed until holes are completely filled flush to top of base plates. The cost of drilling anchor bolt holes, furnishing lead and filling holes with molten lead shall be incidental to and included in the lump sum bid for structural steel.



ESTIMATE OF QUANTITIES

ITEM	PIER 1	PIER 2	PIER 3
Concrete, Class A	27.9 Cu Yd	27.6 Cu Yd	27.3 Cu Yd
Reinforcement	2,152 Lbs.	4,128 Lbs.	4,059 Lbs.

DESIGNED BY: *AD*
CHECKED BY: *AM*
DATE: 5-61

REVISIONS:
NO. DATE
1 5-61

KY 84 SHEET 6 OF 11

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
HARDIN
WEST KENTUCKY TOLL ROAD
PRINCETON-ELIZABETHTOWN
ROAD

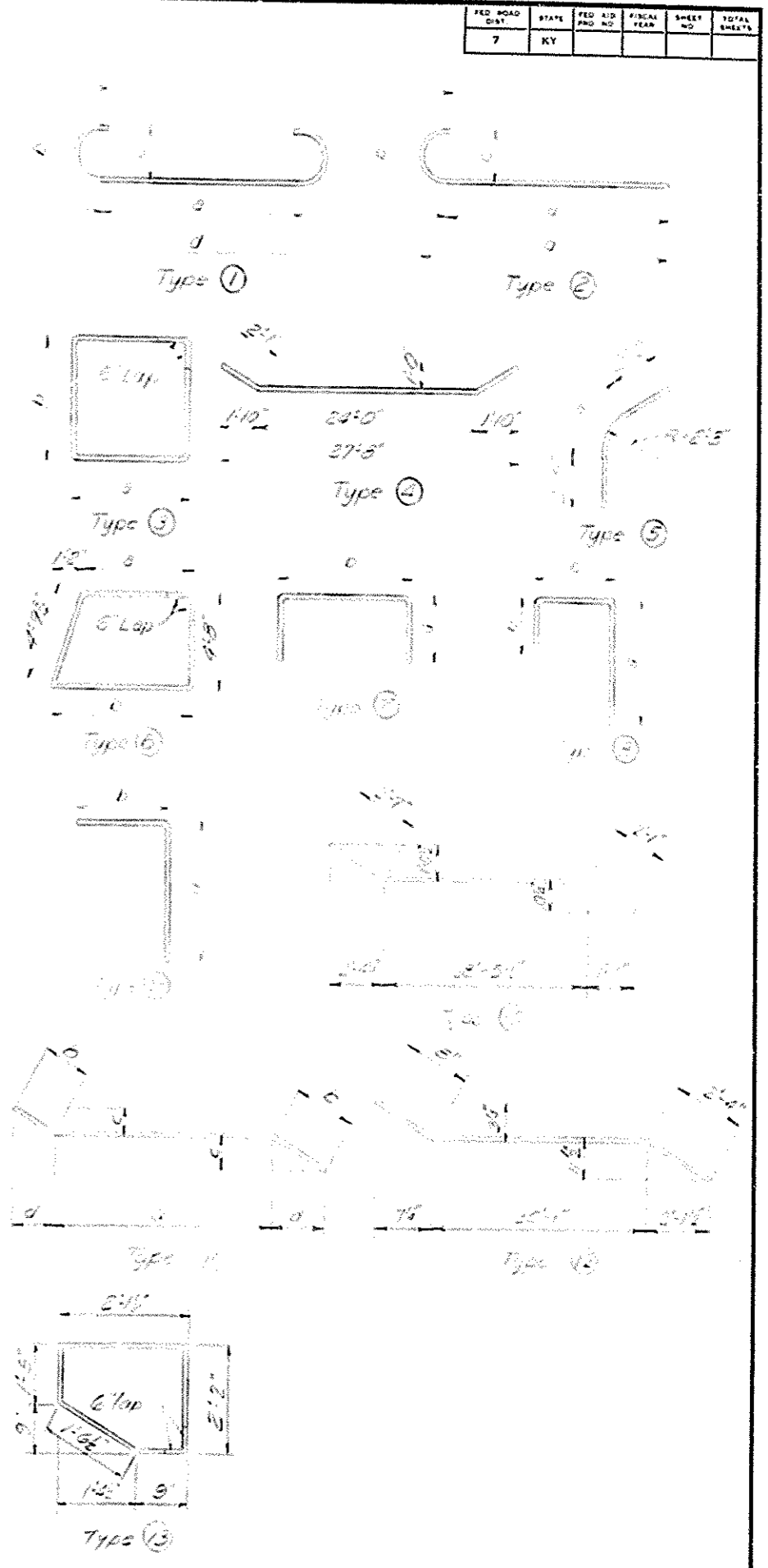
STATION 7875+50.00 PROJECT NO.
BRIDGE NUMBER WK.T.R. 8-2-5 CONTROL NO. 14.211 DRAWING NO. (8-2) INDEX

PIERS

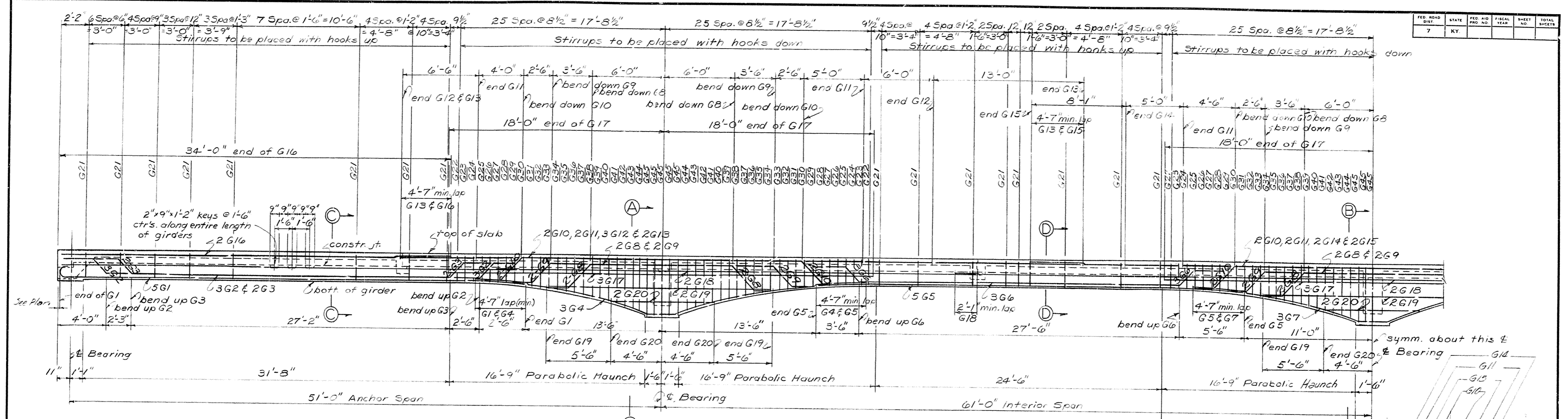


BILL OF REINFORCEMENT

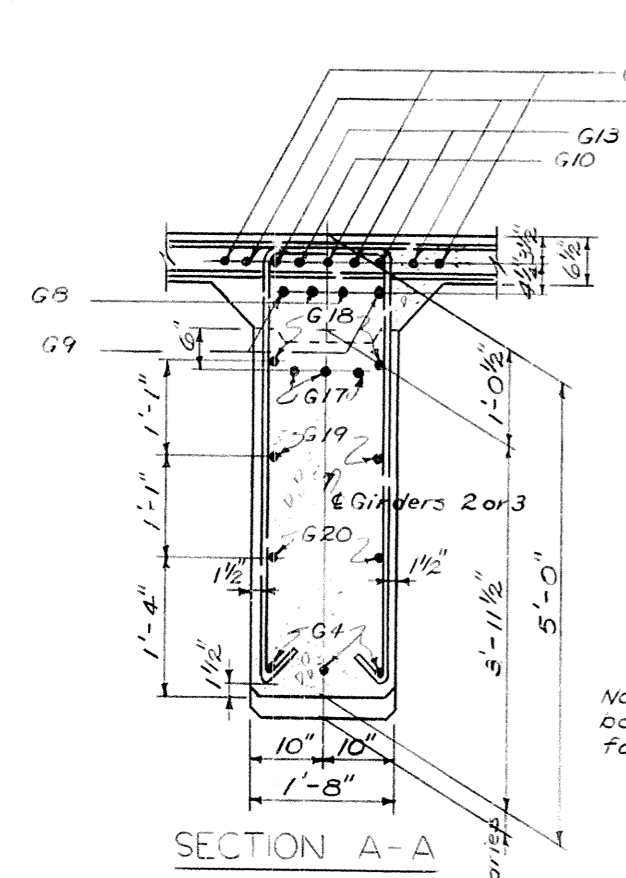
Mark	Type	No.	Bar	Length	Location	a				Mark	Type	No.	Bar	Length	Location	b												
						Ft.	In.	Ft.	In.							Ft.	In.	Ft.	In.									
A1	1	15	46	5	11	5	3	0	10	5	2	3	8	A36	1	4	5	2	1	Key	5	3	0	10	5	2	3	8
A2	1	24	24	3	5	5	3	0	10	5	2	3	8	A37	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A3	1	24	24	3	5	5	3	0	10	5	2	3	8	A38	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A4	1	24	24	3	5	5	3	0	10	5	2	3	8	A39	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A5	1	24	24	3	5	5	3	0	10	5	2	3	8	A40	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A6	1	24	24	3	5	5	3	0	10	5	2	3	8	A41	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A7	1	24	24	3	5	5	3	0	10	5	2	3	8	A42	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A8	1	24	24	3	5	5	3	0	10	5	2	3	8	A43	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A9	1	24	24	3	5	5	3	0	10	5	2	3	8	A44	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A10	1	24	24	3	5	5	3	0	10	5	2	3	8	A45	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A11	1	24	24	3	5	5	3	0	10	5	2	3	8	A46	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A12	1	24	24	3	5	5	3	0	10	5	2	3	8	A47	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A13	1	24	24	3	5	5	3	0	10	5	2	3	8	A48	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A14	1	24	24	3	5	5	3	0	10	5	2	3	8	A49	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A15	1	24	24	3	5	5	3	0	10	5	2	3	8	A50	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A16	1	24	24	3	5	5	3	0	10	5	2	3	8	A51	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A17	1	24	24	3	5	5	3	0	10	5	2	3	8	A52	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A18	1	24	24	3	5	5	3	0	10	5	2	3	8	A53	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A19	1	24	24	3	5	5	3	0	10	5	2	3	8	A54	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A20	1	24	24	3	5	5	3	0	10	5	2	3	8	A55	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A21	1	24	24	3	5	5	3	0	10	5	2	3	8	A56	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A22	1	24	24	3	5	5	3	0	10	5	2	3	8	A57	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A23	1	24	24	3	5	5	3	0	10	5	2	3	8	A58	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A24	1	24	24	3	5	5	3	0	10	5	2	3	8	A59	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A25	1	24	24	3	5	5	3	0	10	5	2	3	8	A60	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A26	1	24	24	3	5	5	3	0	10	5	2	3	8	A61	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A27	1	24	24	3	5	5	3	0	10	5	2	3	8	A62	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A28	1	24	24	3	5	5	3	0	10	5	2	3	8	A63	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A29	1	24	24	3	5	5	3	0	10	5	2	3	8	A64	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A30	1	24	24	3	5	5	3	0	10	5	2	3	8	A65	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A31	1	24	24	3	5	5	3	0	10	5	2	3	8	A66	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A32	1	24	24	3	5	5	3	0	10	5	2	3	8	A67	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A33	1	24	24	3	5	5	3	0	10	5	2	3	8	A68	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A34	1	24	24	3	5	5	3	0	10	5	2	3	8	A69	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A35	1	24	24	3	5	5	3	0	10	5	2	3	8	A70	1	29	7	8	2	Key	5	3	0	10	5	2	3	8



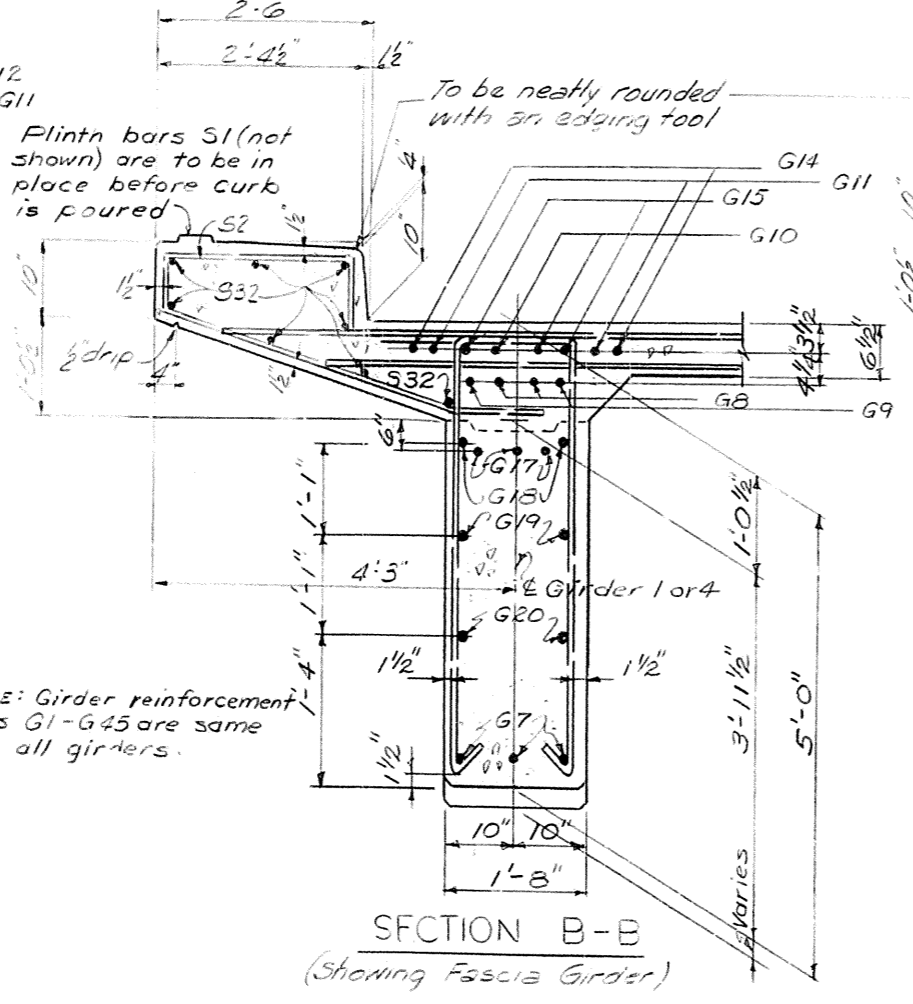
Mark	Type	No.	Bar	Length	Location	a				Mark	Type	No.	Bar	Length	Location	b												
						Ft.	In.	Ft.	In.							Ft.	In.	Ft.	In.									
A1	1	15	46	5	11	5	3	0	10	5	2	3	8	A36	1	4	5	2	1	Key	5	3	0	10	5	2	3	8
A2	1	24	24	3	5	5	3	0	10	5	2	3	8	A37	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A3	1	24	24	3	5	5	3	0	10	5	2	3	8	A38	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A4	1	24	24	3	5	5	3	0	10	5	2	3	8	A39	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A5	1	24	24	3	5	5	3	0	10	5	2	3	8	A40	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A6	1	24	24	3	5	5	3	0	10	5	2	3	8	A41	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A7	1	24	24	3	5	5	3	0	10	5	2	3	8	A42	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A8	1	24	24	3	5	5	3	0	10	5	2	3	8	A43	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A9	1	24	24	3	5	5	3	0	10	5	2	3	8	A44	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A10	1	24	24	3	5	5	3	0	10	5	2	3	8	A45	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A11	1	24	24	3	5	5	3	0	10	5	2	3	8	A46	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A12	1	24	24	3	5	5	3	0	10	5	2	3	8	A47	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A13	1	24	24	3	5	5	3	0	10	5	2	3	8	A48	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A14	1	24	24	3	5	5	3	0	10	5	2	3	8	A49	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A15	1	24	24	3	5	5	3	0	10	5	2	3	8	A50	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A16	1	24	24	3	5	5	3	0	10	5	2	3	8	A51	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A17	1	24	24	3	5	5	3	0	10	5	2	3	8	A52	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A18	1	24	24	3	5	5	3	0	10	5	2	3	8	A53	1	29	7	8	2	Key	5	3	0	10	5	2	3	8
A19																												



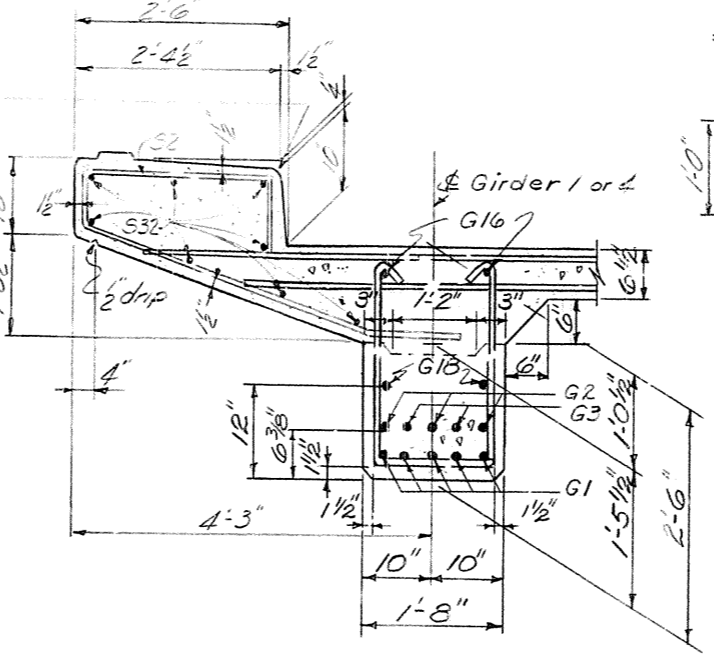
HALF SECTION ALONG C GIRDER



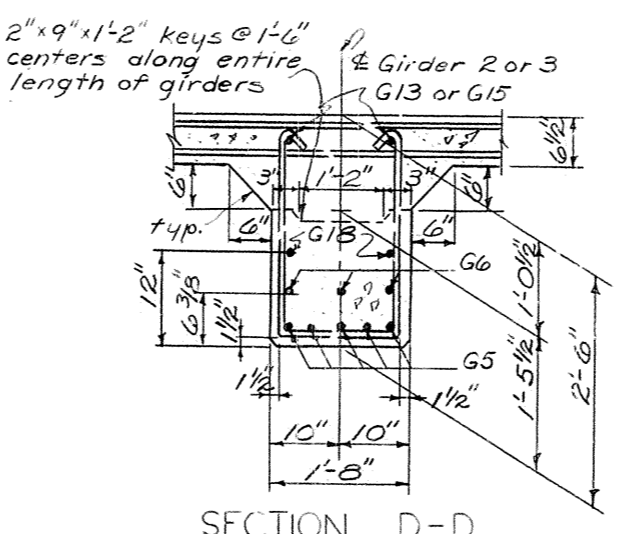
SECTION A-A
(Showing Interior Girder. Reinforcement same for Fascia Girder, except for curb)



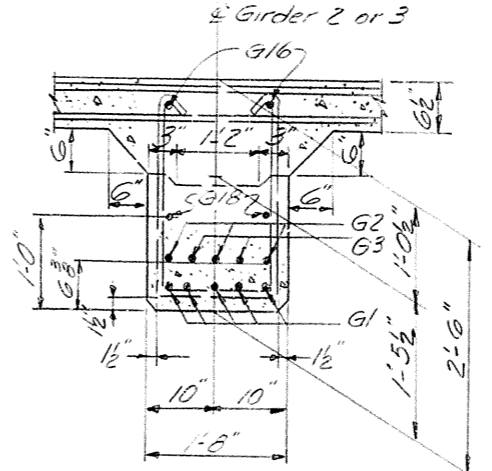
SECTION B-B
(Showing Fascia Girder)



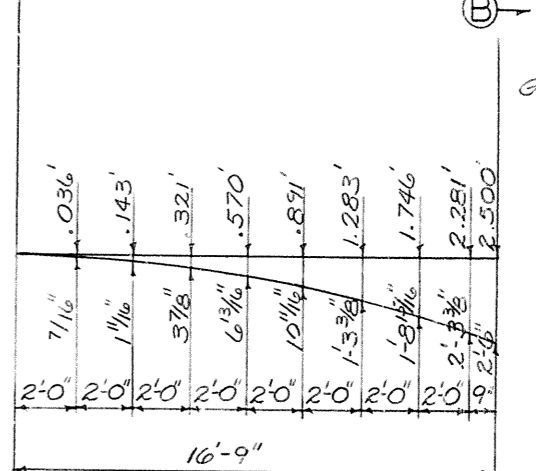
SECTION C-C
(Showing Fascia Girder)



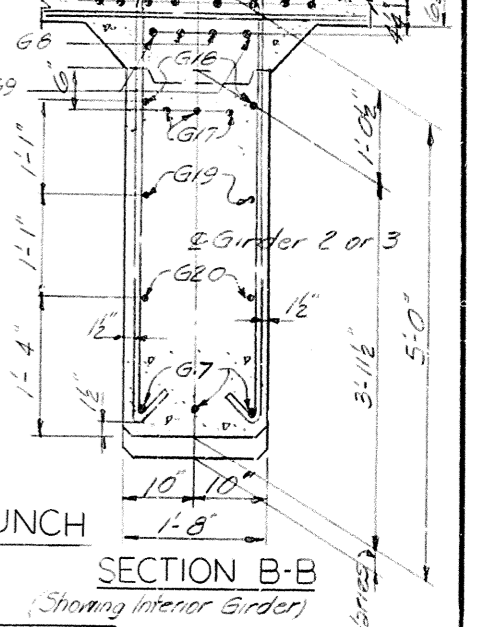
SECTION D-D
(Showing Interior Girder. Reinforcement same for Fascia Girder, except for curb.)



SECTION C-C
(Showing Interior Girder)



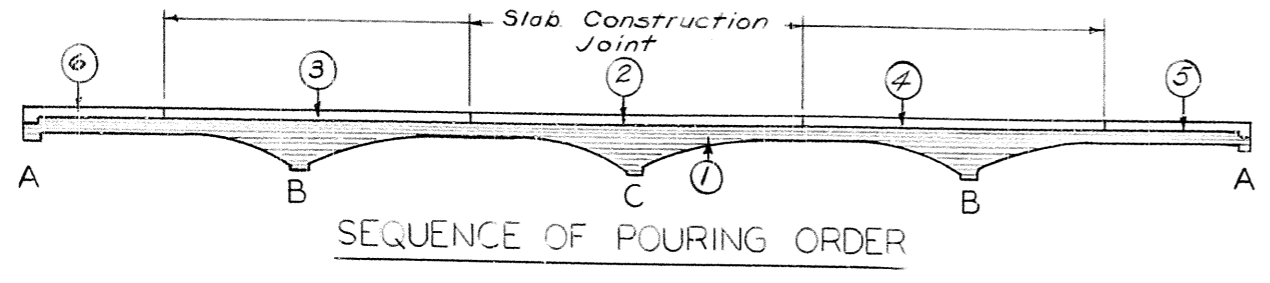
ORDINATES FOR PARABOLIC HAUNCH



SECTION B-B
(Showing Interior Girder)

	SCHEDULE OF REACTIONS - KIPS					
	Girder #1 or #4			Girder #2 or #3		
	A	B	C	A	B	C
Dead Load	30.4	122.9	111.2	21.8	90.5	82.2
Live Load	23.2	41.4	41.4	30.5	54.5	54.5
Impact	6.6	11.6	11.6	8.7	15.2	15.2
Total	60.2	175.9	164.2	61.0	160.2	151.9

NOTE: See pouring order for location of A, B, & C



Pour Section 1 in one continuous operation in horizontal layers for each girder. See Plan, sheet 8, for construction joints.

DESIGNED BY: WLD
 CHECKED BY: WLD
 DATE: 5-61
 REVISIONS:
 CHECKED BY: WLD
 DATE: 5-10-61
 REVISIONS:
 CHECKED BY: WLD
 DATE: 5-10-61
 REVISIONS:

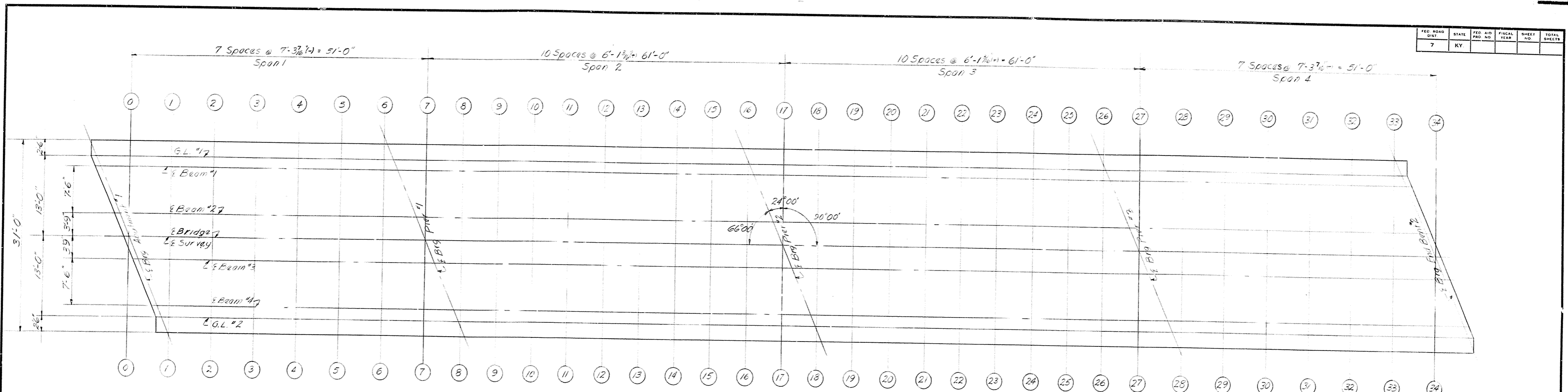
KY. 24 SHEET 9 OF 11

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
 HARDIN
 WEST KENTUCKY TOLL ROAD
 PRINCETON-ELIZABETHTOWN ROAD

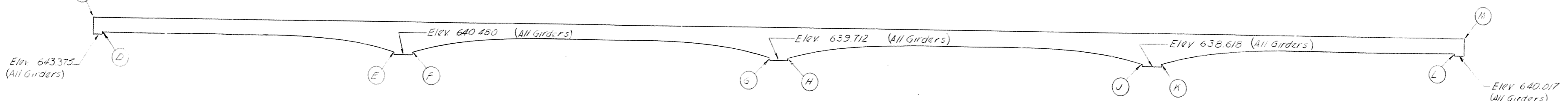
STATION 7878 + 50.00 PROJECT NO.
 BRIDGE NUMBER W.K.T.R. 8-2-5 CONTROL NO. 14,811 (E-2) DRAWING NO. INDEX

SUPERSTRUCTURE



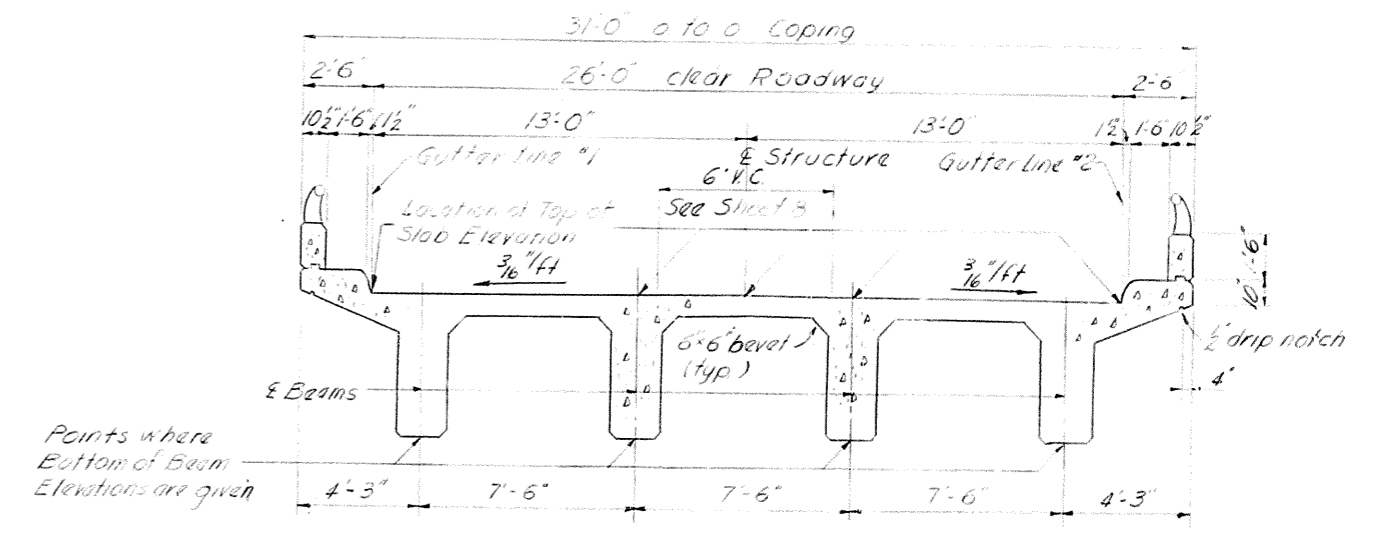


PLAN OF SLAB



SECTION ON G BEAM
Showing Location of Typical Elevation Points

TABLE OF ELEVATIONS																			
Section	Gutter #1 Top of Slab	Beam #1 Bottom of Beam	Beam #2		E-Beam Top of Slab	Beam #3		Gutter #2 Top of Slab	Section	Gutter #1 Top of Slab	Beam #1 Bottom of Beam	Beam #2		E-Beam Top of Slab	Beam #3		Beam #4 Bottom of Beam	Gutter #2 Top of Slab	
			Top of Slab	Bottom of Beam		Top of Slab	Bottom of Beam					Top of Slab	Bottom of Beam		Top of Slab	Bottom of Beam			
D		643.674		643.776					16-16	645.120			645.268	641.064	645.305				
E		640.852		640.939					17-17	.037	640.999	.177		.212	.177		642.204	645.136	
F		.825		.911					18-18	644.957	642.025	.094	641.612	.126	.089	640.885		640.999	.037
G		.153		.223					19-19	.876	.391	.010	642.336	.042	.004	641.969	641.228		644.941
H		.110		.179					20-20	.790	.317	644.928	.428	644.960	644.920	642.395	642.073		.852
J		639.129		639.181					21-21	.694	.221	.836	.336	.870	.832	.332	.209		.766
K		.010		.121					22-22	.591	.111	.732	.232	.768	.733	.233	.114		.679
L		640.511		640.545					23-23	.462	641.992	.617	.117	.652	.622	.122	.008		.594
M		642.957							24-24	.338	646	.492	641.967	.531	.500	642.000	641.889		.481
C		646.159							25-25	.214	640.650	.365	.330	.403	.312	641.698	.151		.363
O-2		646.162	643.685	646.283	643.783	646.308			26-26	.094		.240	640.036	.277	.244	640.762	.174		.106
1-1		.154	.680	.284	.784	.318	646.269	643.769	643.632	646.098									
2-2		.122	.649	.264	.764	.295	.257	.757	.628	.095									
3-3		.064	.594	.218	.718	.254	.220	.720	.601	.071									
4-4		645.988	.500	.148	.648	.189	.158	.658	.548	.021									
5-5		.905	642.763	.066	.308	.111	.077	.539	.472	645.947									
6-6		.832	641.087	645.985	642.060	.024	645.993	642.120	.067	.861									
7-7		.767	.730	.310		645.945	.911		641.735	.774									
8-8		.719	642.787	.857	642.375	.890	.853	641.649		.707									
9-9		.670	643.185	.806	643.132	.837	.799	642.764	642.084	.692									
10-10		.618	.144	.755	.255	.786	.747	643.222	.901	.643									
11-11		.586	.083	.697	.197	.727	.692	.192	643.067	.537									
12-12		.481	.010	.629	.129	.664	.626	.128	.007	.478									
13-13		.396	642.925	.548	.048	.586	.552	.052	642.937	.410									
14-14		.303	.610	.457	642.932	.497	.463	642.965	.854	.327									
15-15		.211	641.638	.363	.328	.400	.369	.695	.750	.235									



TYPICAL SECTION THRU DECK

NOTE: Elevations on this sheet include construction camber and are to be maintained with bituminous in place

REVISIONS
 DATE 3-6
 DATE 3-6
 CHECKED BY
 CHECKED BY
 TRACED BY

ELEVATIONS

KY 84 SHEET 11 OF 11

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF

HARDIN
 WEST KENTUCKY TOLL ROAD
 PRINCETON - ELIZABETHTOWN
 ROAD

STATION 7878+50.00 PROJECT NO.
 BRIDGE NUMBER WKTR 8-2-5 CONTROL NO. 14,811 INDEX
 (8-2) NO.

