

KENTUCKY DEPARTMENT OF HIGHWAYS

LEXINGTON - TENNESSEE LINE

INTERSTATE OVER CUMBERLAND RIVER

WHITLEY COUNTY

GENERAL NOTES

SPECIFICATIONS — KENTUCKY DEPARTMENT OF HIGHWAYS, 1966 STANDARD WITH ADDENDUMS.

DESIGN LOAD — BRIDGE DESIGNED FOR M20-S16-44 LOADING AS SPECIFIED IN 1961 A.A.S.H.O. SPECIFICATIONS OR ALTERNATE LOADING OF TWO 24 KIP AXLES SPACED 11 FEET APART WHICHEVER PRODUCES THE GREATER STRESS. SLABS ARE DESIGNED FOR 16 KIP WHEEL LOAD.

DESIGN STRESSES — FOR REINFORCED CONCRETE, $f_c = 30,000 \text{ psi}$, $f_s = 1200 \text{ psi}$, $f'_{cs} = 3000 \text{ psi}$, $f_s = 200 \text{ psi}$, $n = 10$. FOR STRUCTURAL STEEL, $f_s = 18,000 \text{ psi}$, A373, $f_s = 20,000 \text{ psi}$, A36.

CONCRETE — CLASS "A" CONCRETE IS TO BE USED THROUGHOUT.

REINFORCEMENT — INTERMEDIATE OR HARD GRADE REINFORCEMENT SHALL BE USED IN ACCORDANCE WITH ASTM A15-50T FOR BILLET STEEL OR A16-50T FOR RAIL STEEL, CONFORMING TO BENDING REQUIREMENTS OF ASTM SPEC. #42. DIMENSIONS SHOWN FROM FACE OF CONCRETE TO BARS ARE CLEAR DISTANCE. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS.

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

EXPANSION JOINT MATERIAL — THE COST OF CORK PREMOULDED EXPANSION JOINT MATERIAL, POLYVINYL WATER STOP AND JOINT SEALING COMPOUND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION JOINTS. ALL SLAB CONSTRUCTION JOINTS SHALL BE CAREFULLY FORMED.

ANCHOR BOLT HOLES — THE SUPERSTRUCTURE CONTRACTOR SHALL DRILL ALL ANCHOR BOLT HOLES AND PLACE ANCHOR BOLTS. THE SUBSTRUCTURE CONTRACTOR SHALL EXERCISE CARE IN PLACING REINFORCING STEEL IN THE TOP OF ALL SUBSTRUCTURE UNITS TO THE DIMENSIONS SHOWN.

CONSTRUCT IN NOTE — IF MATERIAL FOR EMBANKMENT IS TO BE HAULED OVER FINISHED BRIDGE, THE ROADWAY APPROACHES FOR A MINIMUM DISTANCE OF 50 FT. FROM THE BACKFACE OF EACH ABUTMENT SHALL BE BROUGHT TO GRADE WITH COMPACTED MATERIAL AND SURFACED WITH TRAFFIC BOUND MACADAM.

C.I. DRAINS — PIPE — SEE SHEET 11 FOR NOTES.

CHANGES IN STRUCTURAL STEEL QUANTITIES — IN THE EVENT THAT CHANGES IN STEEL QUANTITIES ARE REQUIRED DUE TO CHANGES BY THE ENGINEER IN THE PLANS OR IN THE SPECIFICATIONS, CREDITS OR ADDITIONAL PAYMENTS THEREFORE SHALL BE MADE AT A UNIT PRICE WHICH WILL BE EQUAL TO THE CONTRACT LUMP SUM PRICE DIVIDED BY THE ESTIMATED TOTAL WEIGHT.

ELECTRICAL CONDUIT — "LUMP SUM BID" FOR ELECTRICAL CONDUIT SHALL BE FULL PAYMENT FOR ALL RIGID GALVANIZED CONDUIT, JUNCTION BOXES, EXPANSION FITTINGS, GROUNDING STRAPS, AND ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

STRUCTURAL STEEL — "LUMP SUM BID" FOR STRUCTURAL STEEL SHALL BE FULL PAYMENT FOR ALL STRUCTURAL STEEL, BOLTS, WASHERS, STEEL PINS, CAST IRON, LEAD PLATES, MOLDED LEAD, WELDING AND WELDING MATERIALS, FLOOR DRAINS, PAINT, LINEN TRACINGS OF SHOP DETAIL AND ERECTION DRAWINGS, AND ALL LABOR AND MATERIALS NECESSARY TO ERECT THE STEEL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

PROTECTIVE COATING — THE ITEM FOR PROTECTIVE COATING SHALL BE IN ACCORDANCE WITH "THE SPECIAL PROVISION FOR LINSEED OIL PROTECTIVE COATING".

HANDRAIL — ALTERNATE TYPES OF METAL HANDRAIL: THE CONTRACTOR SHALL USE ONE OF THE FOLLOWING THROUGHOUT.
ALT. "A" ALUMINUM HANDRAIL, STD. ENG. H112
ALT. "B" GALVANIZED STEEL HANDRAIL, STD. ENG. H113

FINISH — EXTERIOR FACES OF PLINTH AND SOFFIT OVERHANGS ADJACENT TO MEDIAN TO RECEIVE A RUBBED FINISH IN ACCORDANCE WITH THE SPECIFICATIONS.

REFERENCES & ESTIMATE OF QUANTITIES [TOTAL SUPERSTRUCTURE - TWIN BRIDGES]

ITEM	SHEET NO.	CONCRETE CLASS "A" CU. YDS.	REINFORCEMENT LBS.	STRUCTURAL STEEL LUMP SUM	ELECTRICAL CONDUIT LUMP SUM	CAT WALK GALV. LIN. FT.	6" PIPE DRAINS LIN. FT.	METAL HANDRAIL ALT. "A" ALUM. LIN. FT.	METAL HANDRAIL ALT. "B" STEEL LIN. FT.	PROTECTIVE COATING SQ. YDS.
TITLE SHEET AND QUANTITIES	1									
NOTES (STRUCTURAL STEEL)	2									
LAYOUT	3, 4									
2-90' PLATE GIRDER EAST BR.	5, 12, 13	186 (5) 2	38,556			180.00				
2-90' PLATE GIRDER WEST BR.	5, 12, 13	186 (5) 2	38,556			180.00				
140'-200'-140' CONT. R.L. GR. EAST BR.	6, 7, 8	486 (3) 3	101,000			480.00				
140'-200'-140' CONT. R.L. GR. WEST BR.	6, 7, 8	486 (3) 3	101,000			480.00				
GIRDER SHOES	9									
GIRDER EXPANSION DEVICES	10									
DRAINS AND CAMBER DIAGRAMS	11						391.33			
ROADWAY SLAB (CONCRETE) E.B.	12, 13									3,008
ROADWAY SLAB (CONCRETE) W.B.	12, 13									3,008
HANDRAIL SPACING	14									
ANCHOR BOLT PLAN	14									
CONSTRUCTION ELEVATIONS	15									
METAL HANDRAIL	H112 H113							2,665.7	2,665.7	
EXPANSION JOINT MAT'L.	6-352									
ELECTRICAL CONDUIT DETAILS	16									
WELDING NOTE	AWG-1	1545.0								
TOTALS		1346 (2)	279,112	LUMP SUM	LUMP SUM	1320.00	391.33	2,665.7	2,665.7	6,016

*MATCH STRUCTURAL STEEL INCLUDES: STRUCTURAL STEEL, BOLTS, CAST IRON, CABLE, CLAMPS AND LEAD, PLATES OR PREFORMED FABRIC FADS IF USED.

TOTAL APPROXIMATE WEIGHT OF STRUCTURAL STEEL: 2,449,564.66

BILL OF INCIDENTAL MATERIAL

ITEM	QTY.	UNIT	LOCATION	NOTES
Cork Prod. Exp. Jt.	10	10' x 10' x 6"	Ends and Stringer Expansion	Not Quantities shown: Bill of Incident Material at approx. 10' x 10' x 6" only. The Contractor is responsible for furnishing and installing to complete the work.
Cork Prod. Exp. Jt.	20	10' x 10' x 10"	Ends and Stringer Expansion	
Cork Prod. Exp. Jt.	50	10' x 10' x 10"	Over floor beams	
Cork Prod. Exp. Jt.	112	10' x 10' x 10"	Over floor beams	
Polyvinyl Waterstop	6	10' x 10' x 10"	Over floor beams	
Polyvinyl Waterstop	12	10' x 10' x 10"	Over floor beams	
Polyvinyl Waterstop	24	10' x 10' x 10"	Over floor beams	
Polyvinyl Waterstop	112	10' x 10' x 10"	Over floor beams	

REFERENCES

G-352
H-112
H-113
AWG-1
THE SPECIAL PROVISIONS
"FOR LINSEED OIL PRO-
TECTIVE COATING".
THE SPECIAL PROVISIONS
"FOR JOINT SEALING COM-
POUND".

1.75 OVER CUMBERLAND RIVER SHEET 10616

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

FRANKFORT

COUNTY OF

WHITLEY

LEXINGTON - TENNESSEE LINE

ROAD 50+9530-21

STATION 105+340

BRIDGE NUMBER

10616

SPECIFICATIONS
MATERIAL SPECIFICATIONS

Kentucky Department of Highways Standard. 1916 edition with amendments.

The following ASTM designations shall govern the materials furnished:

ASTM-DESIGNATION

All Structural Steel
 High-Strength Bolts, Nuts and Washers
 Steel Pipes and Fittings
 Wrought Iron Pipes and Couplings
 Grey Iron Castings
 Molten Lead and Sheet Lead
 Steel Machine Bolts and Nuts
 (Steel 1016 to 1030 Inclusive)
 A36-61T
 A325-61T
 A1908-61T
 A7-61T
 A49-61T
 A28-61T
 A307-61T

PAYMENT FOR STRUCTURAL STEEL

Caswell-Cable
A122-68
for purpose of payment lump sum bid" for structural steel includes structural, rivets, high-strength bolts, washers, welding and molten lead, lead plates and anchor bolts, paint and all labor and materials necessary to erect the steel in accordance with the Plans and Specifications. Payment credits for changes in the steel quantities to changes in the Plans made hereunder by the Engineer shall be at the unit price derived from the Contract lump sum bid divided by the erected structural steel weight.

STEEL FINISH

Steel bearing surfaces in contact shall be finished in accordance with Section 5.2.3 of the Specifications. Web plates shall be cut to provide for parabolic camber of the girder.

WILL TEST REPORTS

Motorized Mill tests reports in triplicate shall be furnished the Kentucky Department of Highways showing that all materials furnished conform to the Specifications.

SOMINHO DETALHADO COMINHO

Motorized will tests reports in triplicate shall be furnished the Kentucky Department of Highways showing that all materials furnished conform to the Specifications.

SOMININGO TIVLEO COMI

Dimensions

Dimensions shown on the design drawings are for a normal temperature of 60° Fahrenheit with dead load on the structure.

FIELD CONNECTIONS

High strength steel bolts shall be used in all field connections in accordance with Section 5.2.3.4-5.1 (1) of the Specifications. Dimensions of high strength bolts, nuts and washers shall conform to Specifications for Structural Joints. Bolts shall be installed in accordance with AISC 360, Appendix B. The Research Council on Structural Joints of the Engineering Council shall be consulted for all critical connections. Installation shall be in accordance with the following:

- (1) Connections shall be fabricated with a minimum of one full thread of high strength bolt heads corresponding to that of the heavy semi-finished hexagon bolt only one washer per bolt is required.

Open holes shall be 15/16" diameter for 7/8" diameter bolts; 1 1/16" diameter for 1" diameter bolts; and 1 3/16" diameter for 1 1/8" diameter bolts, except as noted for turned bolts at shoes.

1 7/8" diameter bolts, except as noted for turned bolts at shoes.

EXIT

All structural steel shall be given one shop coat and one field coat of type 1 red lead paint and two field coats of aluminum paint.

ADDITIONAL FIELD SPLICES

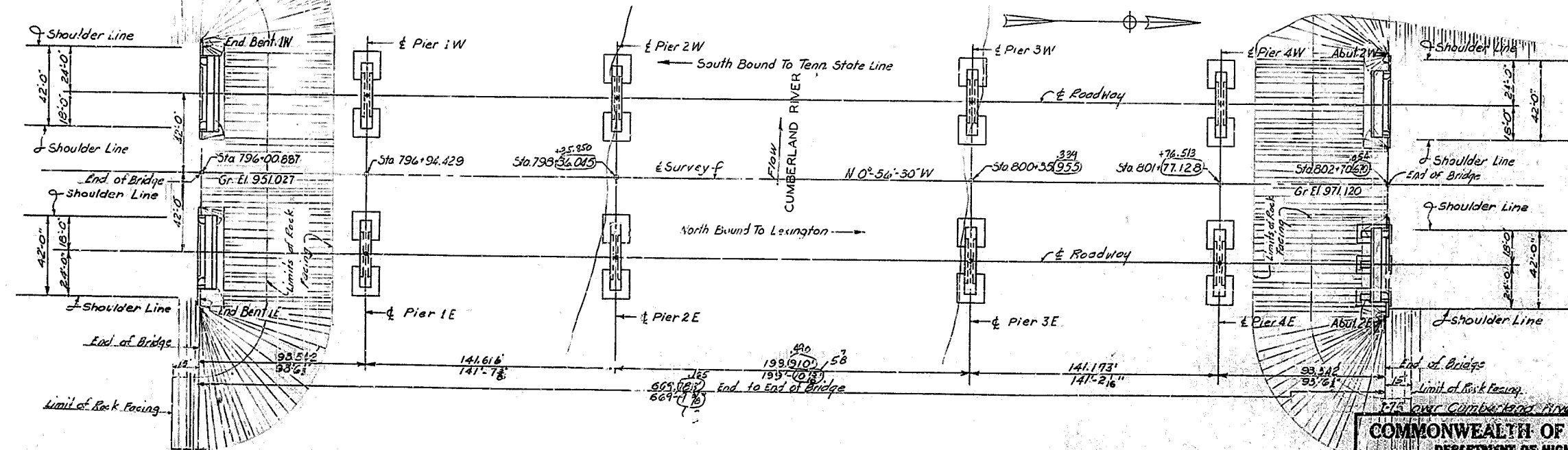
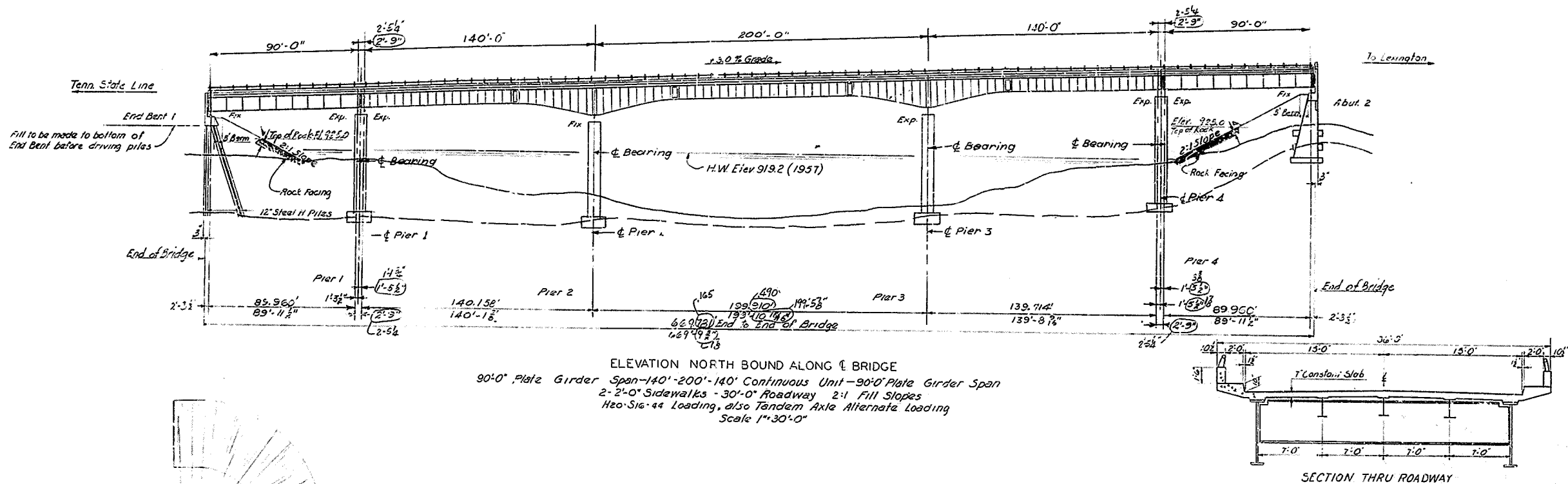
If additional field splices are permitted they shall be at the Contractor's expense and shall be included in the "1" sun bid" for structural steel

175 over Cumberland River Sheet 2
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
WHITLEY
LEXINGTON-TENNESSEE LINE
ROAD
STATION 799+36.0 PROJECT NO.

BRIDGE NUMBER	PLANNING 14610	POST
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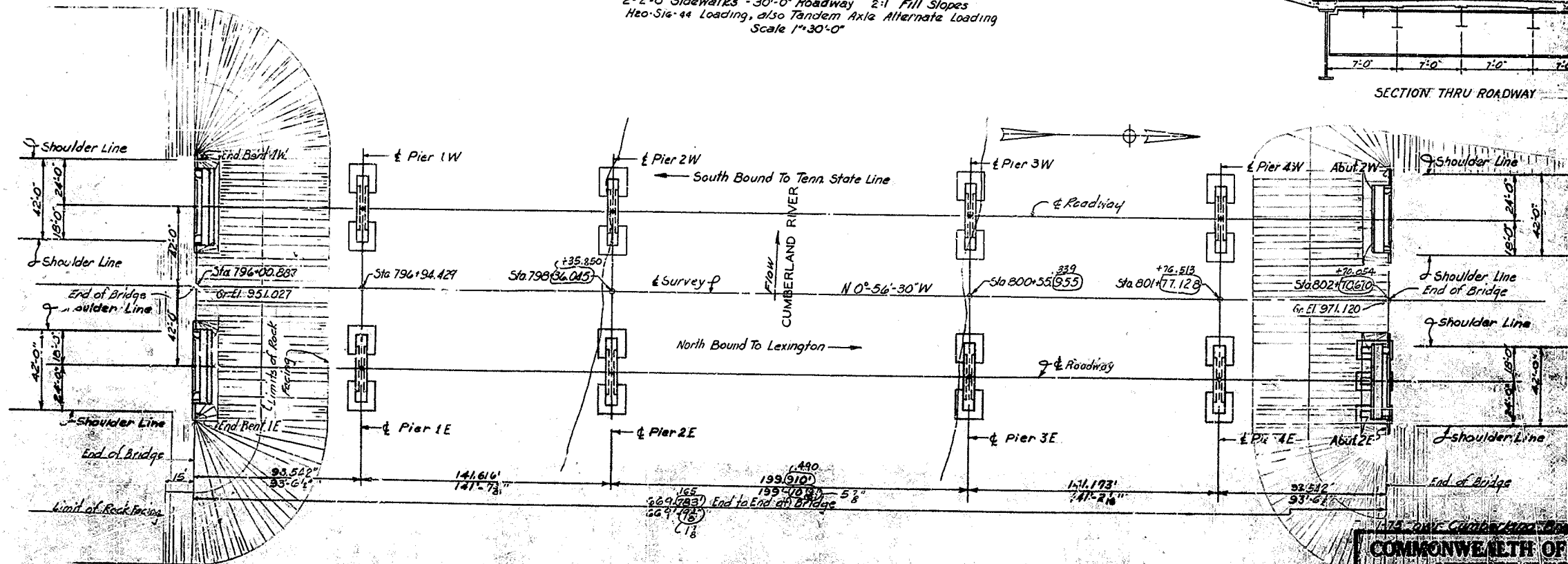
FILE NO.	PLAN	SECTION	DETAIL	DATE	BY	CHECKED
7	KT					

990
980
970
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950
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870
860
850
840



COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
 WHITLEY
 LEXINGTON-TENNESSEE LINE
 ROAD: 30118-330-1
 STATION 792+35.0
 PROJECT NO. 14610

DESIGNED BY: DATE: 11-1-55
 CHECKED BY: DATE: 11-1-55
 DRAWN BY: DATE: 11-1-55
 REVISIONS: 1. 11-1-55



PLAN
(SUPERSTRUCTURE REMOVED).

SOUTH BOUND LANE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TRESPASS
COUNTY OF
WHITLEY
LEXINGTON - TENNESSEE
ROAD
STATION 99-350
BRIDGE
NUMBER

[illegible]

The image contains four technical drawings related to bridge construction:

- SHOP FLANGE SPLICE:** A plan and section view of a flange splice. The plan view shows a 60-degree bevel on the flange, with dimensions for the splice length and flange thickness. The section view shows the flange and web, with dimensions for the splice length and flange thickness.
- BEARING STIFFENERS:** A plan view of a bearing stiffener. It shows a rectangular stiffener with dimensions for the stiffener length, flange thickness, and web thickness. It also shows the stiffener's position relative to the flange and web.
- INTERMEDIATE STIFFENERS:** A plan view of an intermediate stiffener. It shows a rectangular stiffener with dimensions for the stiffener length, flange thickness, and web thickness. It also shows the stiffener's position relative to the flange and web.
- Section View:** A cross-section of the bridge deck, showing the flange, web, and stiffeners. It includes dimensions for the flange thickness, web thickness, and stiffener spacing.

The drawings include:

- END & INTERMEDIATE X FRAME:** A detailed cross-section of the bridge frame at the end and intermediate piers. It shows a 36" WF 150 girder supporting 21" WF 55 stringers. Dimensions include 14'-0" total width, 7'-0" between stringers, and various bolt spacings (e.g., 3 1/2", 3 3/4", 4 1/2"). It also shows 4x4x3/8 L angles and 1" bolts.
- SECTION A-A END X FRAME:** A detail of the end x-frame connection, showing the 36" WF 150 girder, 21" WF 15 stringer, and 4x4x3/8 L angles with 1" bolts.
- SECTION A-A INTERMEDIATE X FRAME:** A detail of the intermediate x-frame connection, showing the 36" WF 150 girder, 21" WF 15 stringer, and 4x4x3/8 L angles with 1" bolts.
- LATERAL SPLICE:** A detail of the lateral splice connection, showing the 21" WF 55 stringer, 21" WF 15 lateral, and 3 1/2" x 3 1/2" x 3/8 L angles with 3/4" bolts.
- SECTION C-C LATERAL CONNECTION:** A detail of the lateral connection, showing the 21" WF 55 stringer, 21" WF 15 lateral, and 3 1/2" x 3 1/2" x 3/8 L angles with 3/4" bolts.
- SECTION D-D LATERAL CONNECTION:** A detail of the lateral connection, showing the 21" WF 55 stringer, 21" WF 15 lateral, and 3 1/2" x 3 1/2" x 3/8 L angles with 3/4" bolts.
- Other details:**
 - For Details of Brackets of Expansion Dam See Sheet 10:** A detail of the expansion dam brackets.
 - Galv. Cable Clamps:** A detail of the galvanized cable clamps, showing a length of 180".
 - Field Weld:** A detail of the field weld connection.
 - Catwalk:** A detail of the catwalk structure.
 - Open Holes for 1 1/2" Turned Bolts:** A detail of the open holes for 1 1/2" turned bolts.
 - Span 5 Pier 4:** A detail of the span 5 pier 4 connection.

END & INTERMEDIATE X FRAME

SECTION A - A
END X FRAME

SECTION A - A
INTERMEDIATE X FRAME

LATERAL SPLICE

SECTION C - C SECTION

LATERAL CONNECTION

TO STRINGERS

SECTION B-B
INTERMEDIATE X-FRAME

Note: Catwalk details are similar to catwalk details for the Continuous Girder Span. See Sheet 8.

90' WELDED PLATE GIRDER SPAN 18' 5"

I-75 Over Cumberland River Sheet 5

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

WHITLEY
LEXINGTON- TENNESSEE LINE

STATION 799+36.0

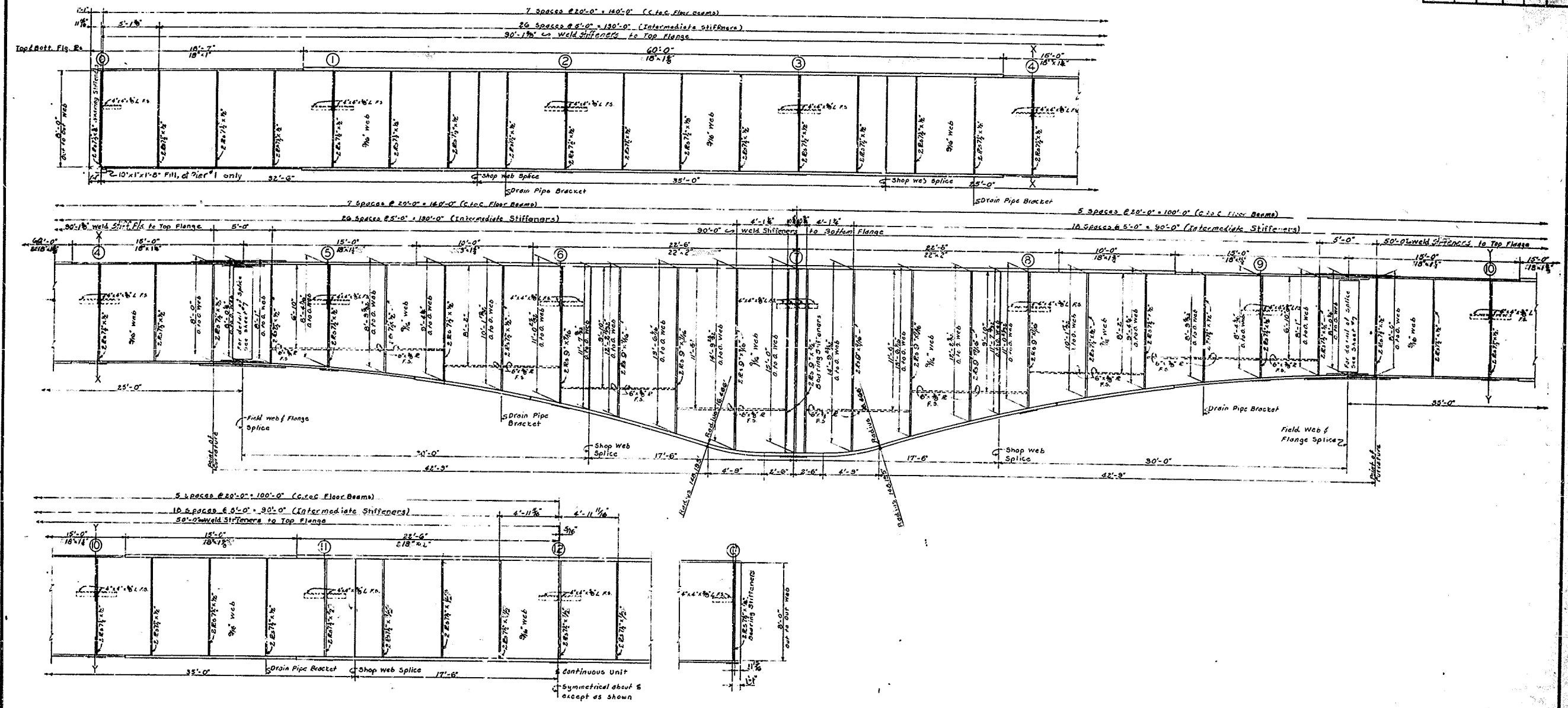
ROAD SP18-350-2
FACET INC.

BRIDGE

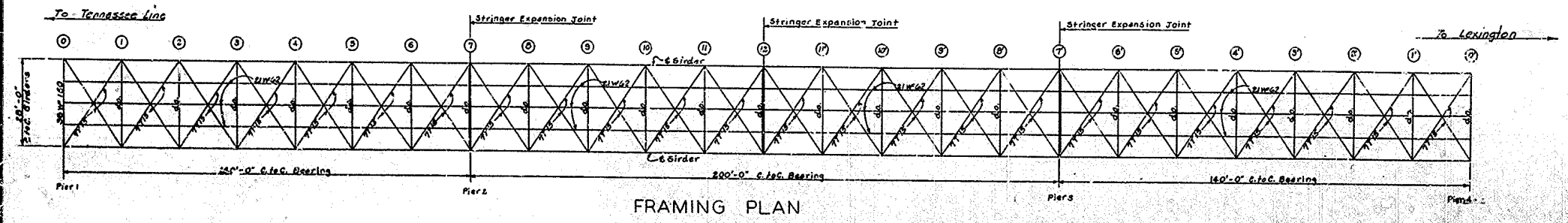
DECLASS

DA5-270

REV.	BY	DATE
7	KT	



PART ELEVATION
NOTE: All longitudinal dimensions on this sheet are dimensions parallel to grade.



FRAMING PLAN

140'-200'-140' CONTINUOUS UNIT

WORK SHEETS 6 THRU 8 TOGETHER

1-75 over Cumberland River Sheet No. 6

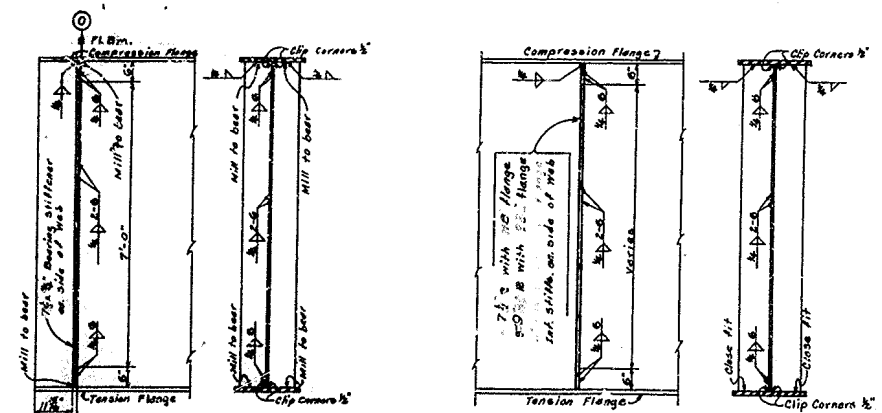
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

WHITLEY
LEXINGTON - TENNESSEE LINE

ROAD

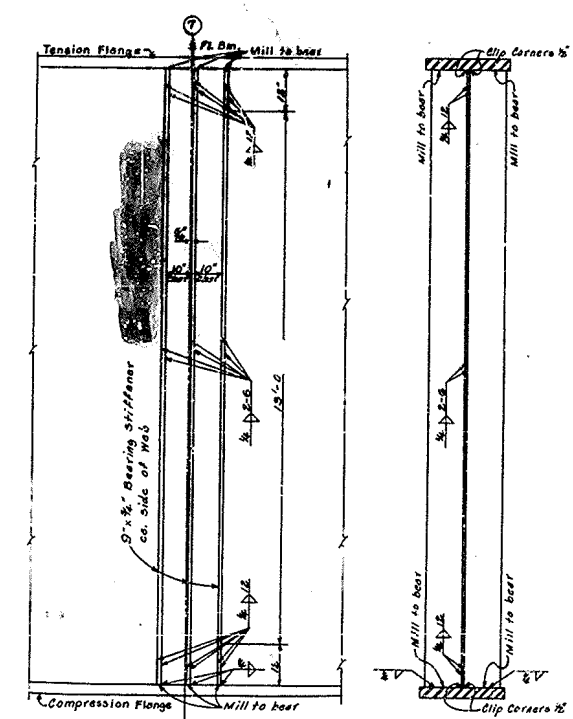
STATION 799+36.0 PROJECT NO. 14610

BRIDGE NUMBER

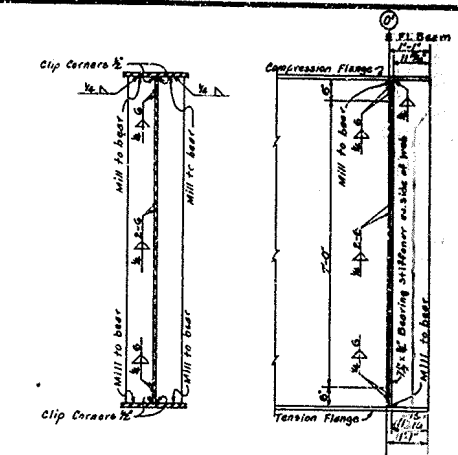


BEARING STIFFENERS
PANEL POINT 0

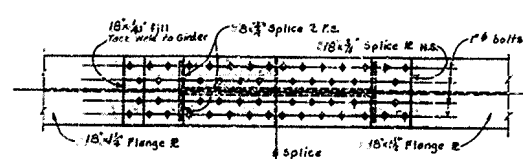
INTERMEDIATE STIFFENERS



BEARING STIFFENERS
PANEL POINTS 7 & 7'

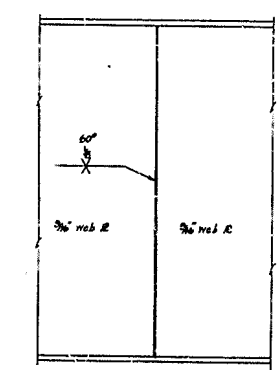
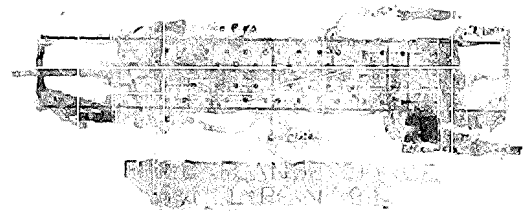


BEARING STIFFENERS
PANEL POINT 0'

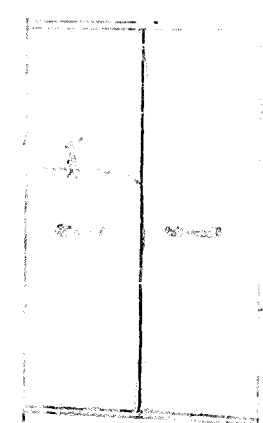


FIELD FLANGE SPLICE
PANEL POINT 4 5/8
PANEL POINT 9 3/8 OPP. HAND

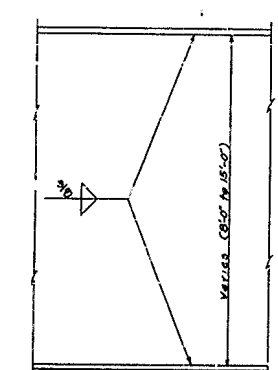
FIELD SPLICE NOTE:-
Use 1/2" holes with 1/2" High Strength Steel Bolts



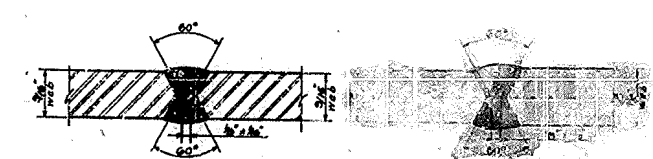
ELEVATION



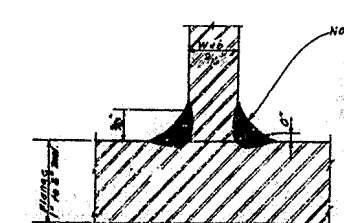
ELEVATIONS



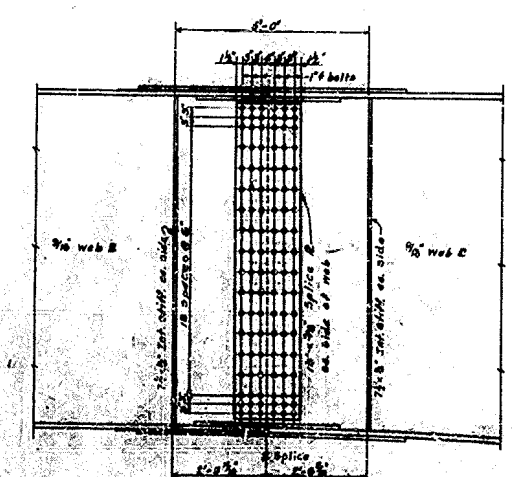
ELEVATION



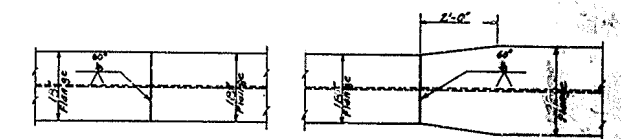
SECTION
SHOP WEB SPLICE



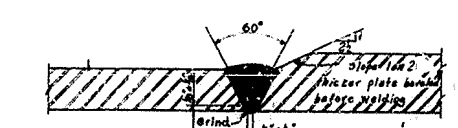
SECTION
FLANGE TO WEB WELD



FIELD WEB SPLICE
PANEL POINT 4 5/8
PANEL POINT 9 3/8 OPP. HAND

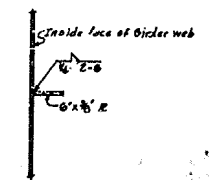


PLAN



SECTION

SHOP FLANGE SPLICE



HORIZONTAL STIFFENER
DETAIL

WORK SHEETS 6 THRU 8 TOGETHER
See Welding Procedure Note on Standard Dwg AWS-1

140'-200'-140' CONTINUOUS UNIT

1:75 over Cumberland River

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
WHITLEY
LEXINGTON - TENNESSEE LINE
STATION 799+36.0
BRIDGE NUMBER 4612



Note: All views shown on this sheet are taken looking ahead on the survey.



NOTE:

Cable to be 15 3/4" wide on 28' Channels, 12 gauge galvanized Steel and shall be made from standard lengths as manufactured by the Globe Co. Chicago, Ill. under the trade name of "Safety" "Type" Steel. The grade of the material shall be Structural (ASTM) Steel. The steel is to be hot rolled, pickled and drawing quality. The material shall be 1/4" thick. The unit price bid per lin. ft. of cable shall include furnishing Cableway, 2 1/2" x 8" x 16" Posts, 1/2" galvanized bolts and nuts, welding material, tools, labor and all incidentals necessary to complete the installation on the idealized twin bridges.

Approximately 2570' linear feet of 1/2" x 8" x 16" extra galvanized Common Steel wire strand and galvanized Cable Clamps shall be included in the lump sum bid price. For 100' of structural Steel. Steel wire shall conform to A.S.T.M. Specification A58-58.

WORK SHEETS 6 THRU 8 TOGETHER

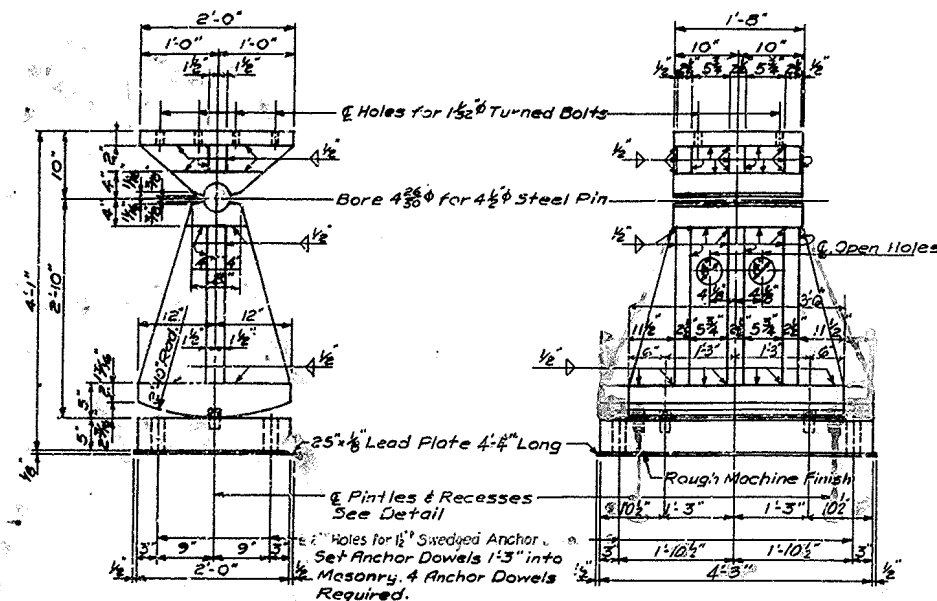
I-75 over Cumberland River

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

WHITLEY
LEXINGTON - TENNESSEE LINE

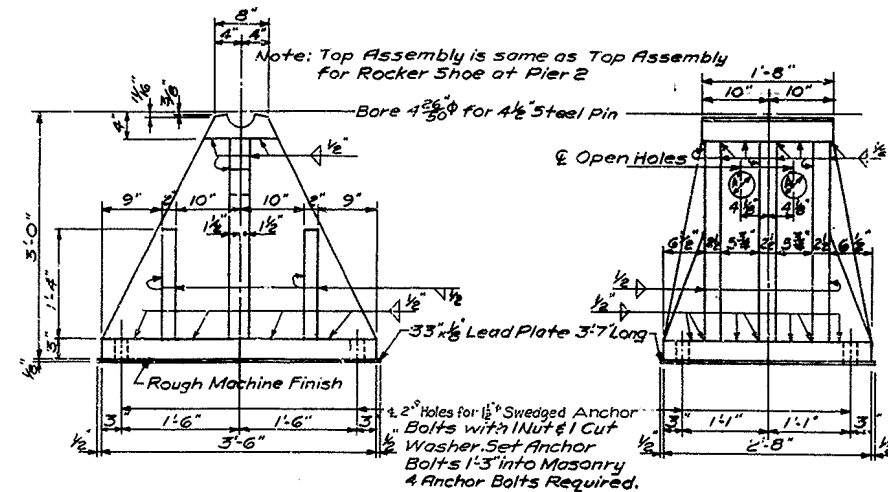
STATION 794+36.9
BRIDGE

TYPICAL CATWALK DETAILS-ALL SPANS
BRACING-140'-200'-140' CONTINUOUS UNIT



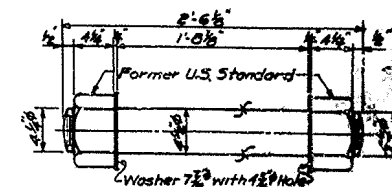
EXPANSION ROCKER - PIER 3

2 Required
Weight of 1 Rocker including Anchor Bolts
* Structural Steel = 517 Lb.
Lead Plate * 66 Lb.
* Steel Pin and Weld Material
not included

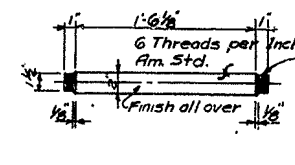


FIXED SHOE - PIER 2
2 Required

- * Structural Steel = 4204 Lb.
- Lead Plate = 72 Lb.
- * Steel Pin and Weld Material
not included



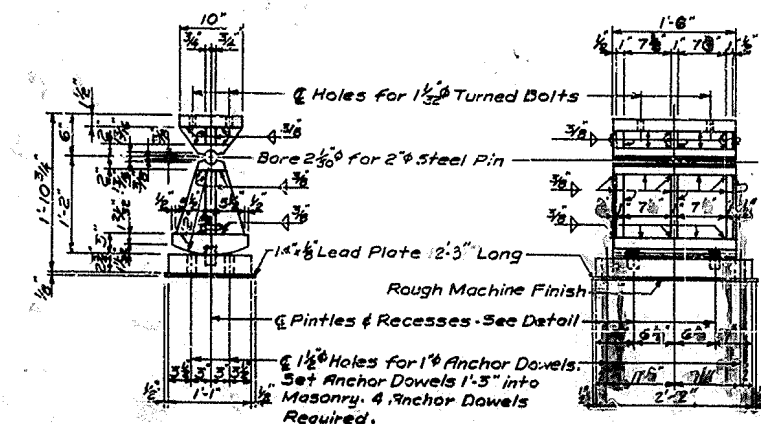
STEEL PIN
4 Required with 2 Nuts & 2 Washers Each
Weight of 1 Pin, 2 Nuts & 2 Washers: 1.175 lb.



STEEL PIN
12 Required with 2 Recessed Pressed Steel Nuts Etc.
Weight of 1 Pin & 2 Nuts = 19 Lb.

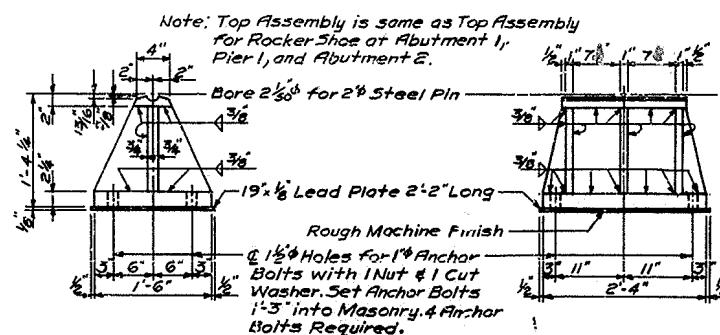
NOTES

- Specifications — Kentucky Department of Highways 1936 Standard with Amendments.
- Paint — All material shown on this sheet except finished surfaces of steel pins and pin bearing surfaces shall be given one shop coat of Type I red lead paint and one field coat of Type I red lead paint, then be given two field coats of aluminum paint, all in accordance with the Specifications.
- Welding Material — Welding material shall conform to the American Welding Society Specifications for Welded Highway and Railway Bridges, 1963 Edition and subsequent amendments.
- Welding — The cost of welding material and labor to be included in the lump sum bid for structural steel. No direct payment will be made for welding and welding material.
- Anchor Dowels — The cost of lead required to set anchor dowels and the cost of drilling anchor dowel holes shall be included in the lump sum bid for structural steel. The contractor shall be responsible for keeping holes dry in wet and frosty weather. At the time of setting, anchor dowels shall be heated to a blue heat to assure free flow of lead to bottom of hole.
- White Lead and Tallow — Finished surfaces of steel pins and pin bearing surfaces in steel shoes shall be coated with white lead and tallow in accordance with current specifications with amendments.
- Plates — Plates must be true and free of warp.
- Mill Test Reports — Notarized mill test reports in triplicate shall be furnished the Department of Highways showing that all structural steel furnished meets specifications.
- Shop Plans — The contractor shall furnish the Department of Highways with complete shop detail plans in accordance with Article 3.2.3 A.1. of the Specifications.
- Masonry Bearing Plates — One-eighth (1/8) inch lead plates or preformed fabric pads may be used.



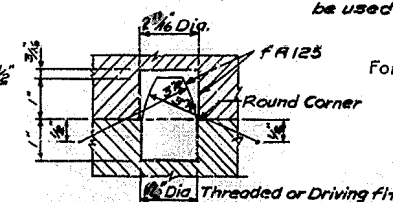
EXPANSION ROCKER - PIER 1, & PIER 4

8 Required
Weight of 1 Rocker including Dowels.
* Structural Steel = 700 Lb.
Lead Plots = 15 Lb.
* Steel Pin and Weld Material not included



FIXED SHOE - ABUTS. 1 & 2

4 Required
Weight of 1 Shoe
* Structural Steel = 712 Lb.
Lead Plate = 28 Lb.
* Steel Pin and Weld Mater if not included



For additional Notes See Sheet No. 2

SURFACE FINISH OF STEEL - SPECIFICATIONS	
<u>Steel Slabs</u>	A.3.A.2000
<u>Heavy Plates in Contact in Shoes to be Welded</u>	A.3.A.1000
<u>Milled Ends of Compression Members, Stiffeners & Fillers</u>	A.3.A.500
<u>Bridge Rollers and Rockers</u>	A.3.A.250
<u>Pins and Pin Holes</u>	A.3.A.125

A.S.T.M. SPECIFICATIONS

Structural Steel	A36-G2T
Steel Pins	A108-G; T Grade 10/6 to 10/30 incl.
Sheet Lead & Lead for Anchor Dowel Holes	B29-55

ROCKERS AND SHOES PIERS 1,2,3,4
AND ABUTMENTS 1 AND 2
SHOES FOR ONE BRIDGE, 2 REQ'D.

I-75 over Cumberland River Sheet 9

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

WHITLEY

LEXINGTON - TENN. STATE LINE

STATION 799+36.0

PRINCE H.S.

**BRIDGE
NUMBER**

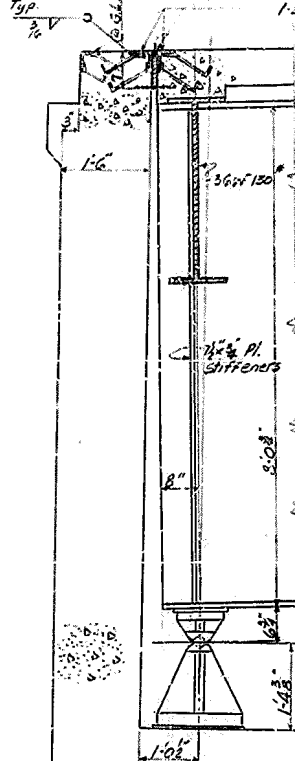


Side 8' L not rigid on sidewalk

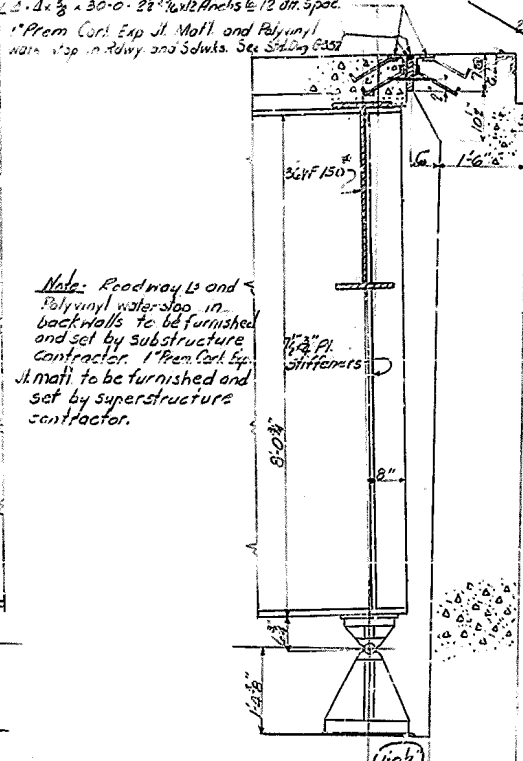
Joint Sealing Compound
1-1/2" x 1/2" x 30'-0" 26# Wires @ 12" on space
1" Prem. Curl Exp. Jt. Matl. and Polyvinyl
Matl. stop in Rdwy and Sidwks. See Sealing Comp.

8x4 1/2" L Bend to Crown. Holes in field drilled for 3/8" bolts @ 4' c.t.c.
6x4 1/2" L not bend to crown. Holes in Herring field drilled for 3/8" bolts @ 4' c.t.c.
2x 1/2" Bars @ 1'-6" c.t.c.
Fill 1/2" thick

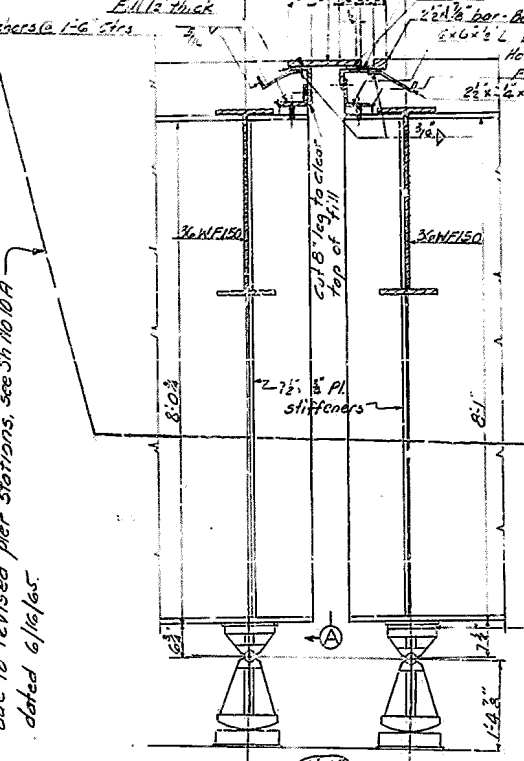
3/4" x 3/4" Pl. Bend to Crown
3/4" x 1/2" Bend to Crown. Holes in 1/4" L to be drilled in field for 3/8" bolts @ 4' c.t.c.
2x 1/2" Bar
2x 1/2" Bar Bend to Crown
6x6 1/2" L Do not bend to crown. Holes in Horiz. Leg to be field drilled for 3/8" bolts @ 4' c.t.c.
Fill 1/2" thick
2x 1/2" x 12" Anch. bars @ 1'-6" c.t.c.



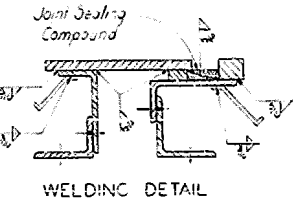
END BENT NO. 1



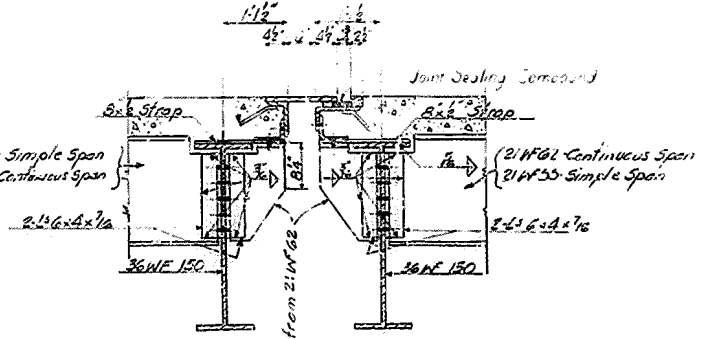
ABUTMENT NO. 2



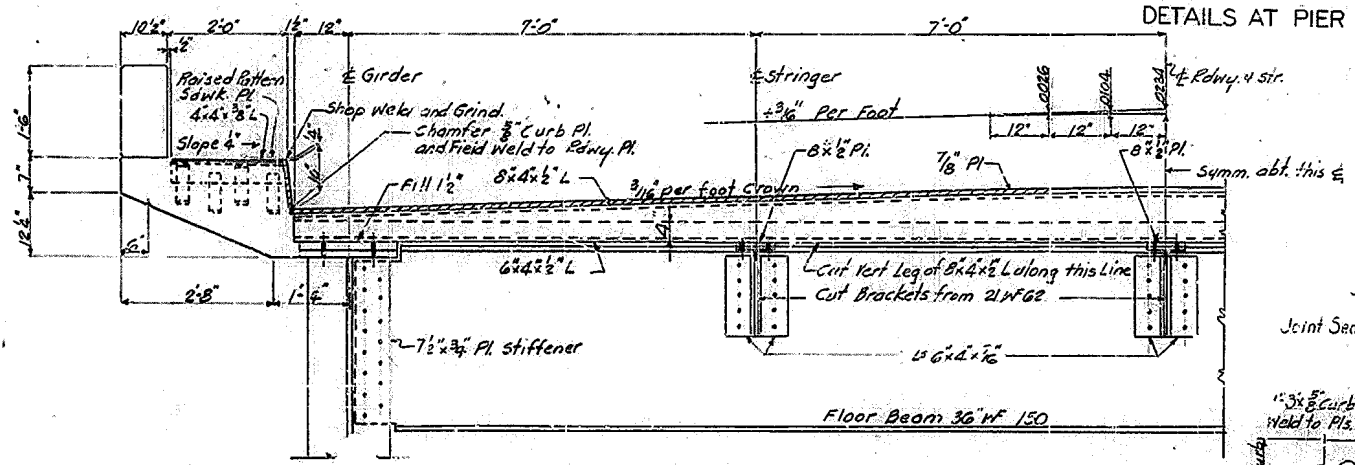
PIER NO. 1 EXPANSION DETAILS
DETAILS AT PIER NO. 4 OPP. HAND



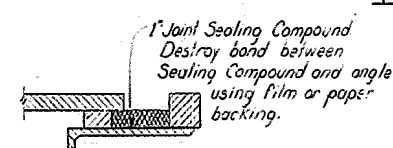
WELDING DETAIL



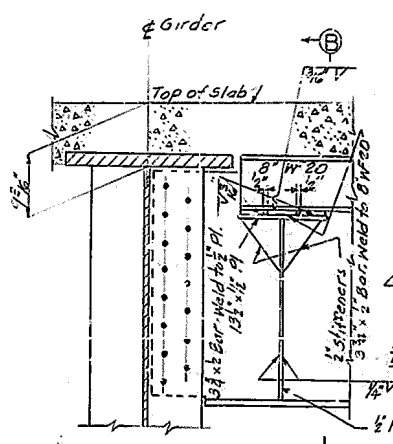
EXPANSION DAM BRACKETS @ STRINGERS
PIERS 1 & 4
For Details not shown, See Details at Girders.



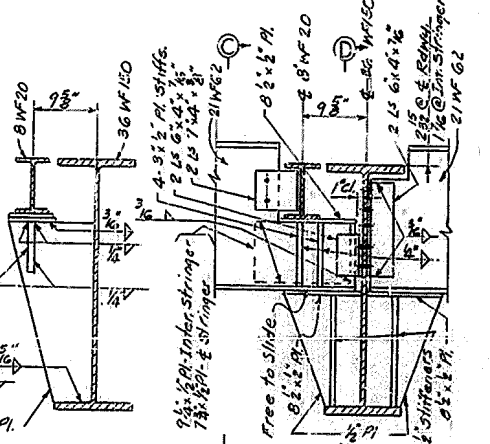
SECTION A - A



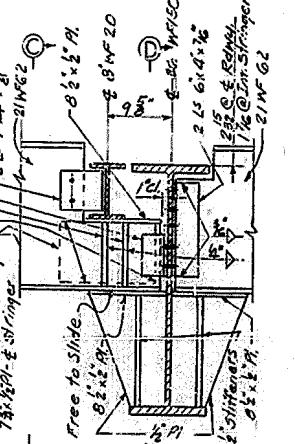
JOINT SEALING DETAIL



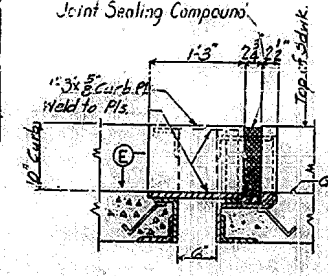
SECTION AT GIRDER
STRINGER EXPANSION DETAILS
For Location, See Sheet 6.



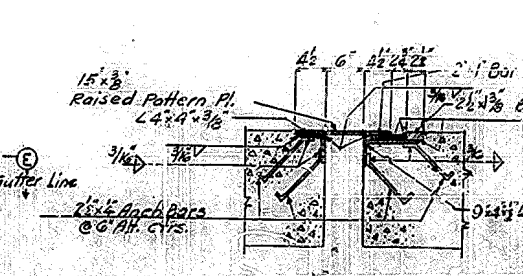
SECTION B - B



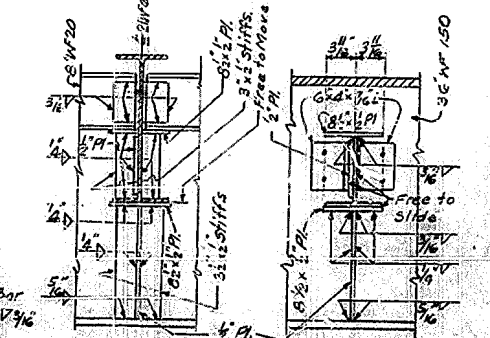
SECTION AT STRINGER



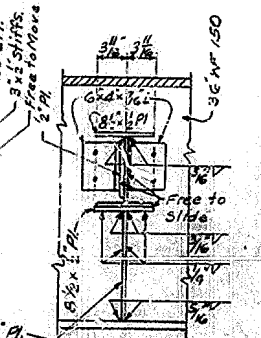
SECTION AT CURB



SECTION AT SIDEWALK



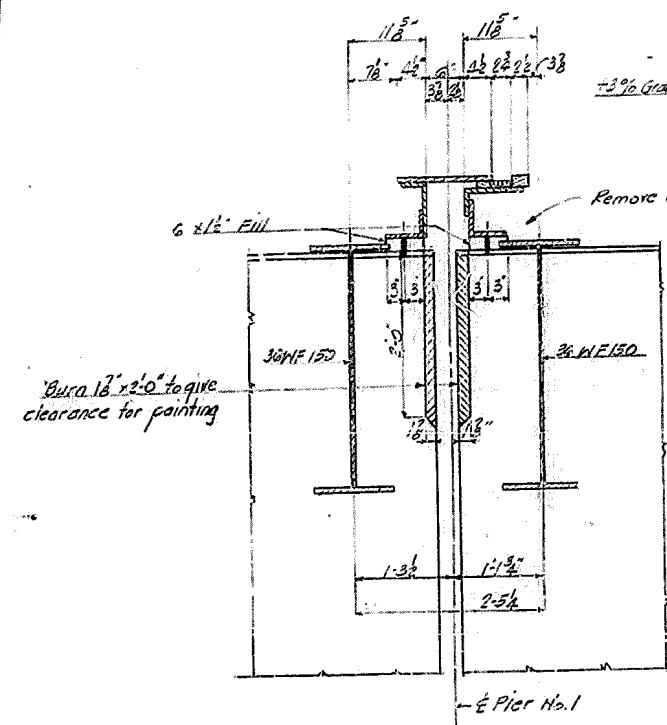
SECTION C - C



SECTION D - D

Note: All expansion devices are shown in normal position at a temperature of 60°F and are detailed to these dimensions. At other temperatures dimensions will vary from those shown. This equals 1/2" @ Pier 4 and 3/8" @ Pier 1 per 1" change from 60°F. Expansion details shown are for both East and West Bridges.

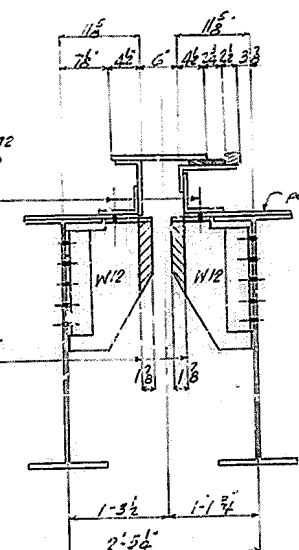
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TRANSPORT
COUNTY OF
WHITLEY
LEXINGTON - TENNESSEE LINE
ROAD PROJECT NO.
STATION 177+36.0
BRIDGE NUMBER
177+36.0



REVISED PIER NO. 1 EXPANSION DETAILS AT GIRDERS
 DETAILS AT PIER NO. 4 OPPOSITE HAND.
 DETAILS ABOVE SHOW CHANGES FROM DETAILS SHOWN ON SHEET 10, DWG 14610
 TO FIT PIERS AS BUILT. WORK THIS SHEET WITH SHEET 14, REVISED 6/15/65

Field drill 2 - 1 1/8" holes in tie pls. p22 and brackets W12 2' back from shop holes. Burn off plates p22 flush with burned end of W12. Drill Expan. Dam 15 to match when dams are set.

Burn off 12 Brackets W12 & Grind smooth

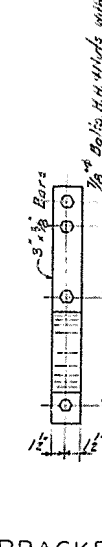
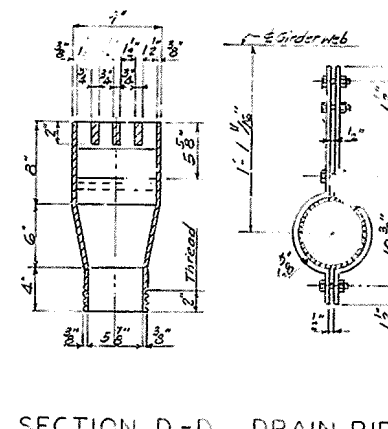
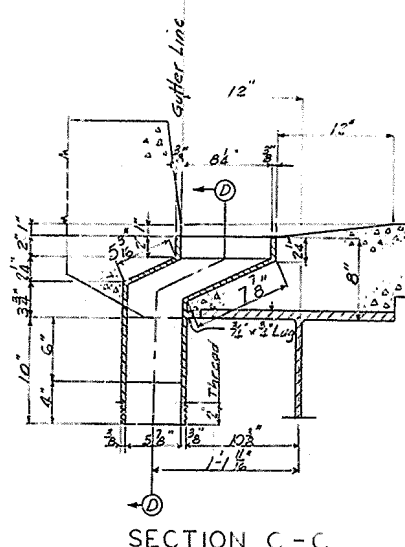
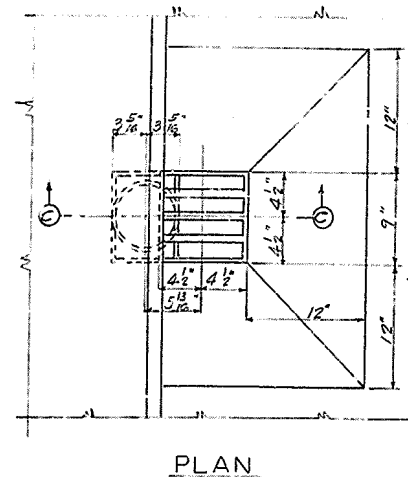
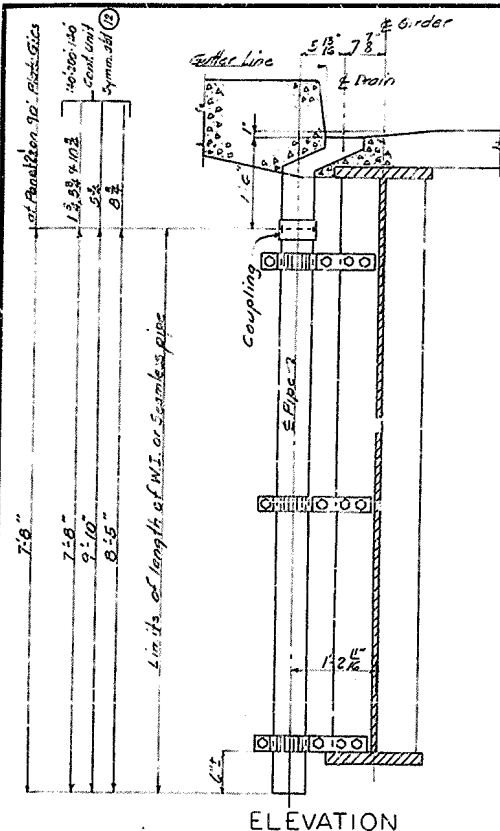


REVISED PIER NO. 1 EXPANSION DETAILS AT FLOOR BEAM BRACKETS
 DETAILS AT PIER NO. 4 OPPOSITE HAND
 DETAILS ABOVE SHOW REQUIRED CHANGES FROM L. TAILS SHOWN ON SHEET 10, DWG 14610

515 over Cumberland River Sheet 10 A

COMMONWEALTH OF KENTUCKY	
DEPARTMENT OF HIGHWAYS	
FRANKFORT	
COUNTY OF	
WHITLEY	
LEXINGTON - TENNESSEE LINE	
ROAD	
STATION 799+36.2	PROJECT NO.
BRIDGE NUMBER	14610

REVISED EXPANSION DETAILS



NOTES

Foundry Note:
All Drains to be gray iron castings A.S.T.M. A 48-60T except that tensile and transverse tests are not required. Form T-521 Report of Field Inspection of Castings, is to be submitted to the Laboratory. Drains are to be furnished by the Superstructure Contractor and the cost of furnishing and placing same is to be included in the lump sum bid price for Structural Steel.

Paint Note:
All pipe to be 6" x 1/2" x 1/2" seamless. Pipe, fittings and connections are to be paid for at the unit price bid per lin. ft. of pipe. Wrought Iron pipe is to be 6" standard weight 19 pounds per linear ft. in accordance with ASTM A 12. Seamless pipe is to be 6" standard weight, containing a minimum of 15% copper and 1.5% nickel and having a minimum tensile strength of 80,000 p.s.i.

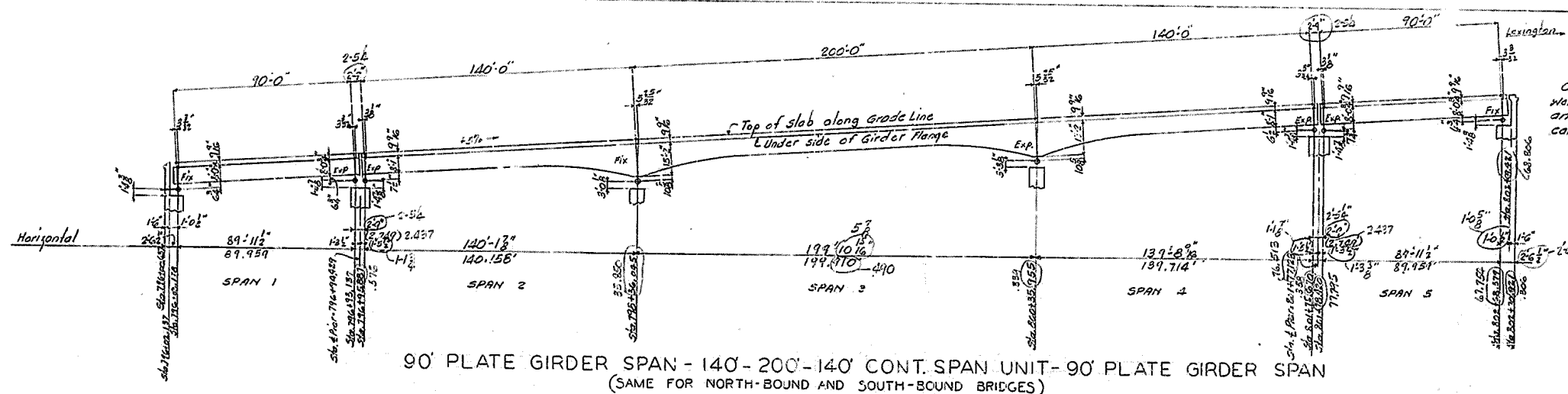
Paint:
Exposed part of C.I. drain, all pipe and fittings are to be given one coat of Type I red lead and two coats of aluminum paint.

ESTIMATE OF QUANTITIES (2 bridges)

6" Pipe 391.33 Lin. Ft.

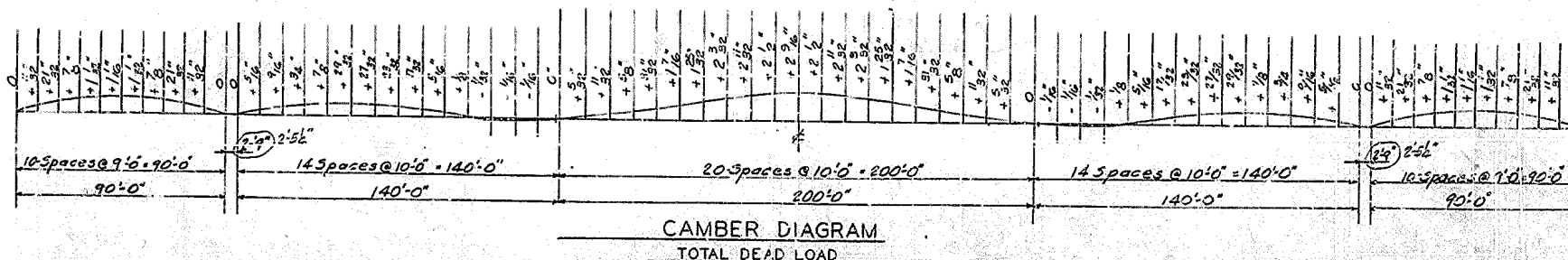
DRAINS

48 Required (Total - Twin Bridges)
Weight - Each Drain = 65 lb.
For Location of Drains See Sheets 5, 6 & 12



NOTE

Camber Diagram shown on this sheet includes the weight of concrete, deck, handrail, future surfacing, and structural steel, and is to be used for setting shop camber in girders.



DRAINS, DRAIN PIPE & CAMBER DIAGRAM

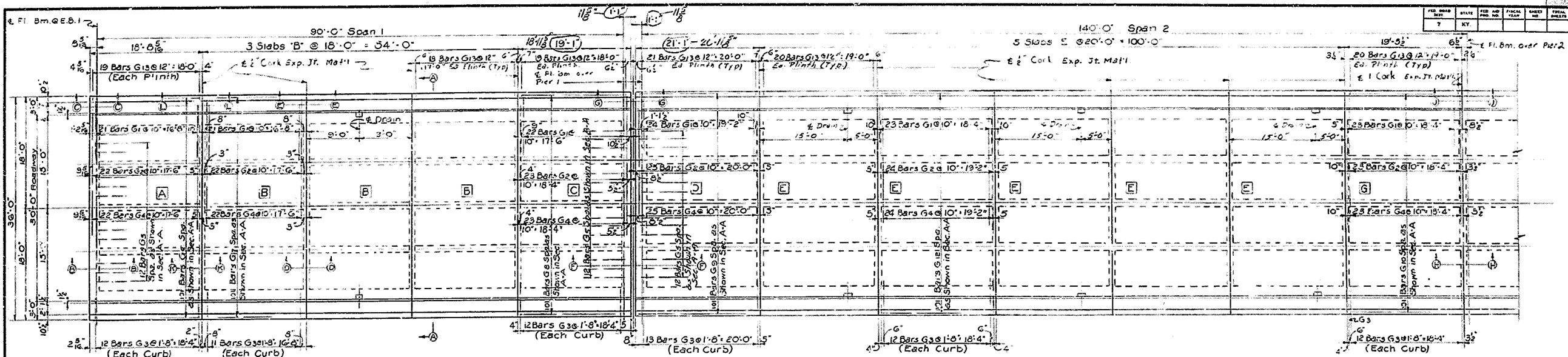
I-75 over Cumberland River Sheet 11

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

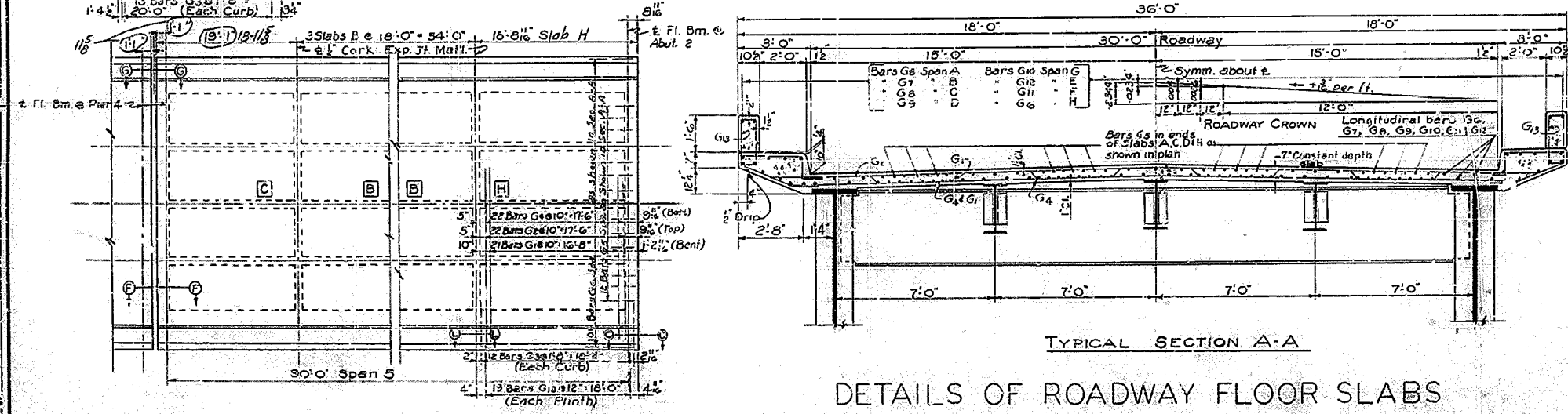
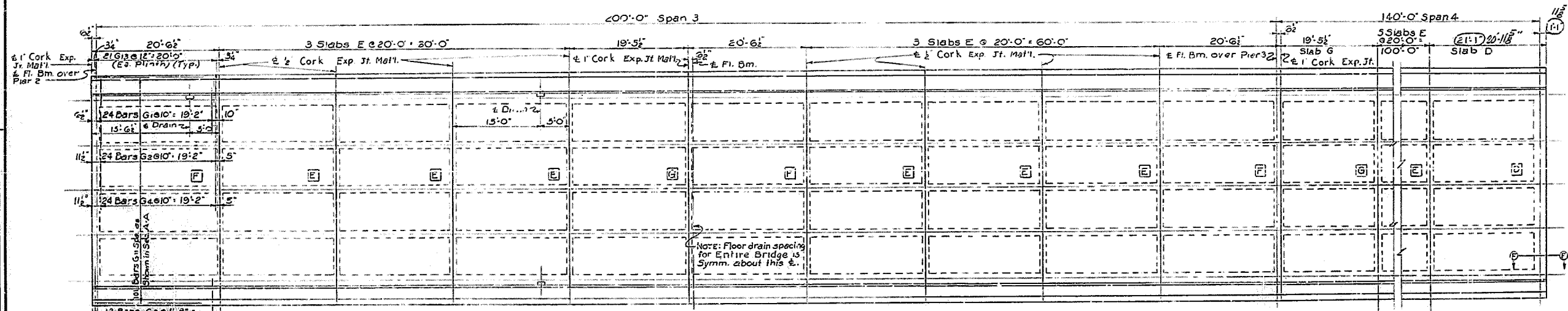
WHITLEY
LEXINGTON - TENNESSEE LINE
ROAD

STATION 799+56.0 PROJECT NO.

BRIDGE NUMBER 14610



PART PLAN OF ROADWAY FLOOR SLABS
LONGITUDINAL DIMENSIONS ARE SLOPE MEASUREMENTS ALONG GRADE



TYPICAL SECTION A-A
DETAILS OF ROADWAY FLOOR SLABS
WORK SHEETS 12 AND 13 TOGETHER

NOTE: Bars in plinth to be in place before sidewalk is poured. For spacing and details of rail-see sheets 14 and 112 or 113. Plinth to be poured after slab pouring is complete and all falsework under girders has been removed.

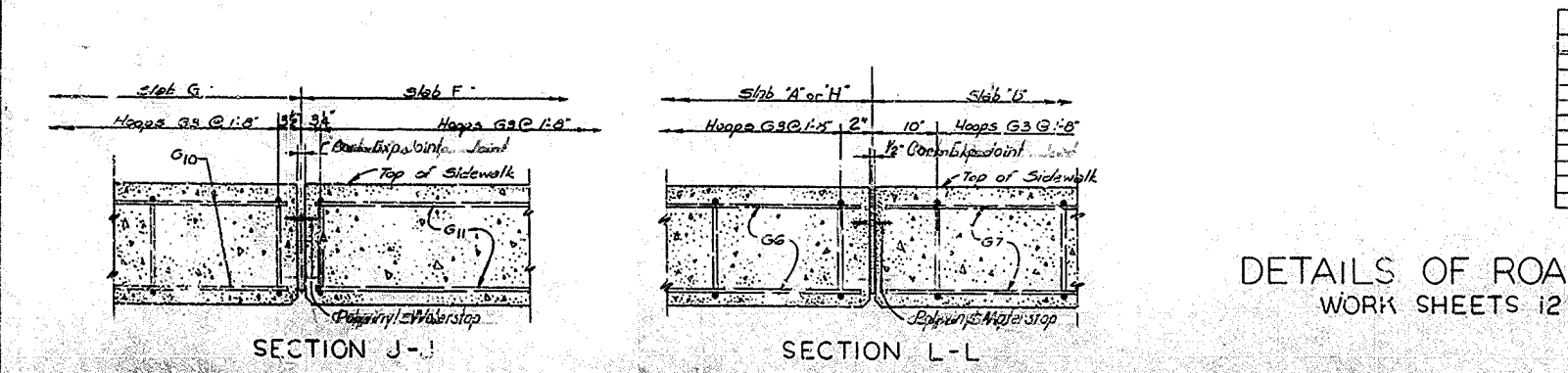
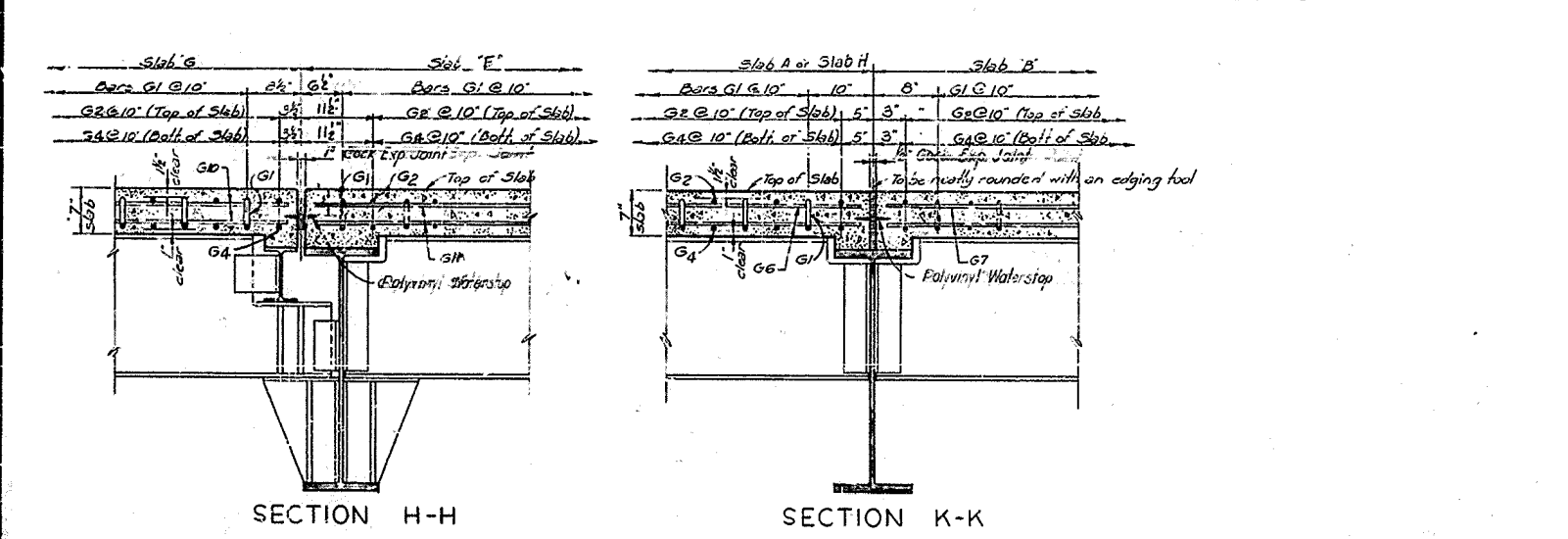
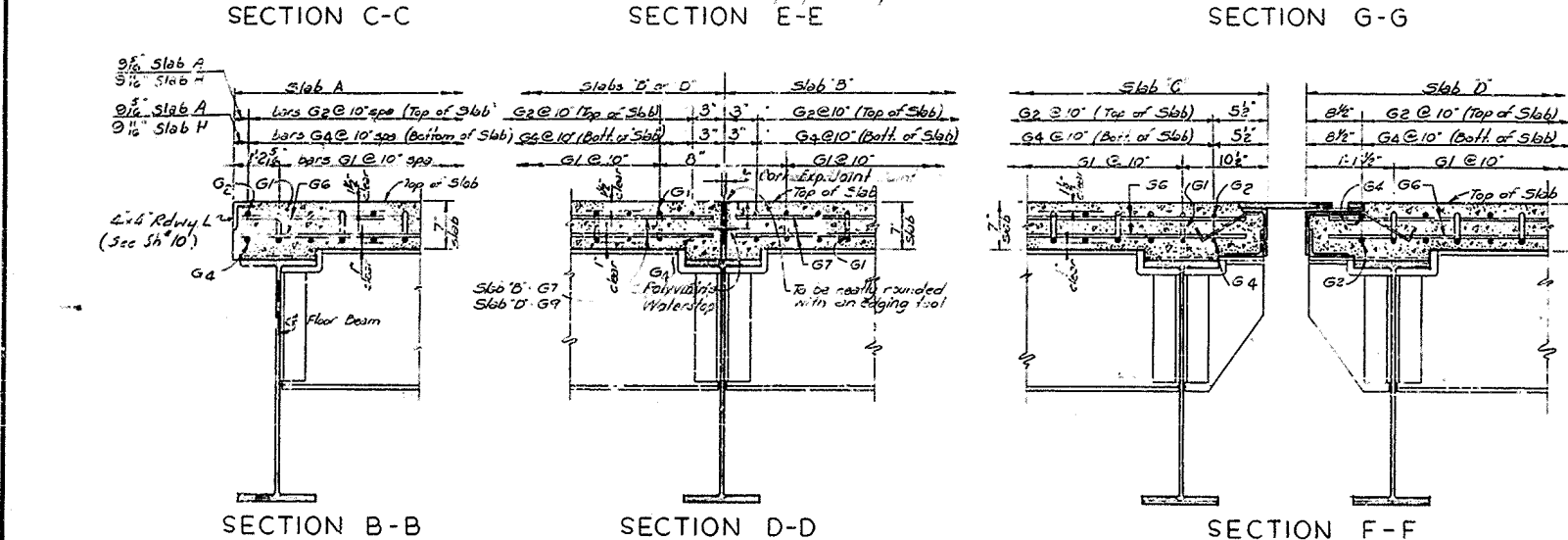
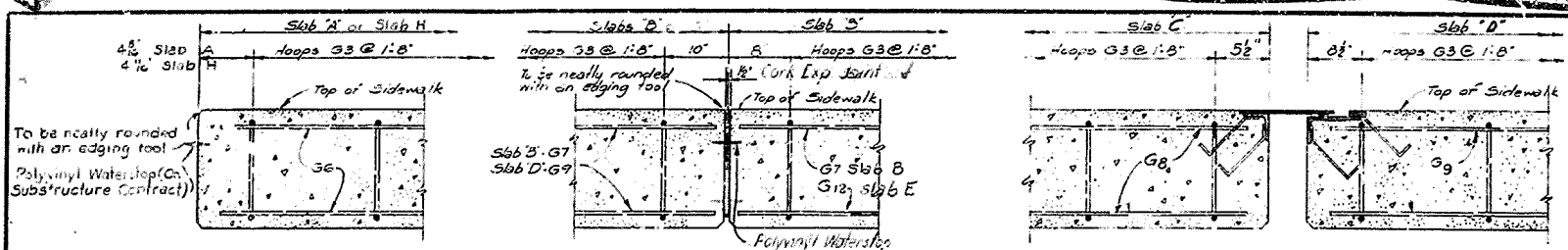
175 over Cumberland River Sheet 12

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF

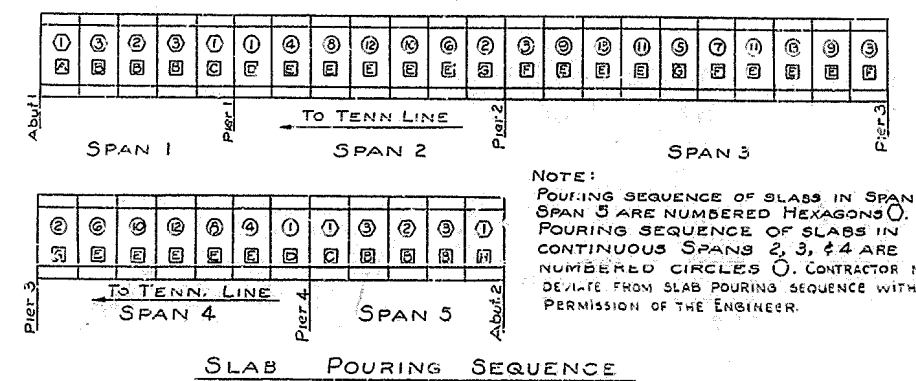
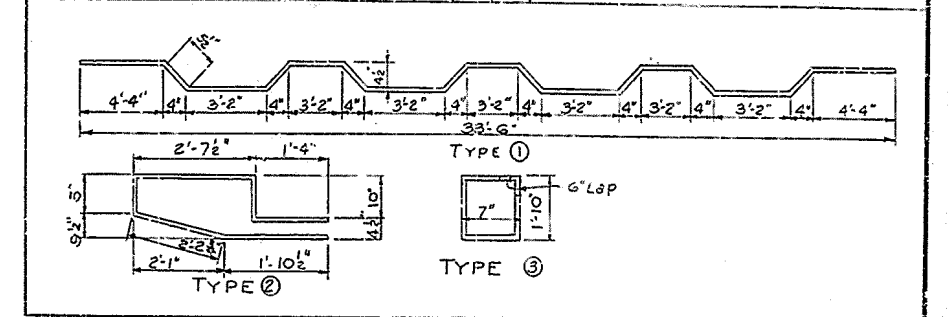
WHITLEY

LEXINGTON--TENNESSEE LINE

ROAD
STATION 799+36.0 PROJECT NO.
BRIDGE NUMBER DRAWING NO. 14610



MARK	TYPE	NUMBER	LENGTH	LOCATION
G1	10	42	126	All slabs, Transverse
G2	10	42	126	Top
G3	10	42	126	Side Wall Hoops
G4	10	42	126	Bottom, Transverse
G5	10	42	126	End of A, C, D, H
G6	10	42	126	Longitudinal Slab A, H & Plinths
G7	10	42	126	B
G8	10	42	126	C
G9	10	42	126	D
G10	10	42	126	E
G11	10	42	126	F
G12	10	42	126	G
G13	10	42	126	Hoops in Plinth



CONCRETE, CLASS 'A'	SPAN 1	CONT. SPANS 2, 3 & 4	SPAN 5
REINFORCEMENT	921 (93.2) Cu.Yds.	446.3 (486.8) Cu.Yds.	921 (93.2) Cu.Yds.
	19278 LBS.	101,000 LBS.	19278 LBS.

DESCRIPTION	NO. REQUIRED
SLAB A	1
SLAB B	6
SLAB C	2
SLAB D	16
SLAB E	3
SLAB F	3
SLAB G	1
TOTAL	34

DETAILS OF ROADWAY FLOOR SLABS
WORK SHEETS 12 AND 13 TOGETHER

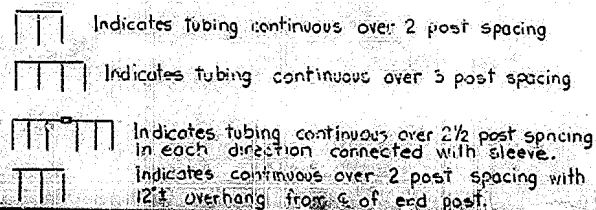
SHEET 13

1-75 OVER CUMBERLAND RIVER

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
WHITLEY
LEXINGTON-TENNESSEE LINE
ROAD

STATION 799+36.0 PROJECT NO. 14610

*NOTE: HOLES OF DEPTH AND DIMENSIONS SHOWN SHALL BE DRILLED FOR ANCHOR BOLTS BY SUPERSTRUKTUR, 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, HOTTEN 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 HOTTEN LEAD SHALL BE INCLUDED IN THE "LUMP SUM BID" FOR STRUCTURAL STEEL.



Note: Dimensions on Anchor Bolt Plan are perpendicular to horizontal whereas dimensions for Handrail are perpendicular to grade.

HANDRAIL SPACING ANCHOR BOLT PLAN

1-75 OVER CUMBERLAND RIVER SHEET 14

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY KY
WHITLEY
LEXINGTON - TENNESSEE LINE

ROAD *cont'd*

STATION 799+36.0 **PROJECT NO. 5740-150 7/82**

BRIDGE NUMBER	DATE	DESIGNED	DRAWN

TABLE OF ELEVATIONS FOR SETTING SLAB FORMS FOR 90° PLATE GIRDER

SECTION	STATION	Line A	Line B	Line C	Line D	Line E
1	10+00	Const. El. 951.000	Const. El. 951.000	Const. El. 951.000	Const. El. 951.000	Const. El. 951.000
2	10+25	951.000	951.000	951.000	951.000	951.000
3	10+50	951.000	951.000	951.000	951.000	951.000
4	10+75	951.000	951.000	951.000	951.000	951.000
5	11+00	951.000	951.000	951.000	951.000	951.000
6	11+25	951.000	951.000	951.000	951.000	951.000
7	11+50	951.000	951.000	951.000	951.000	951.000
8	11+75	951.000	951.000	951.000	951.000	951.000
9	12+00	951.000	951.000	951.000	951.000	951.000
10	12+25	951.000	951.000	951.000	951.000	951.000
11	12+50	951.000	951.000	951.000	951.000	951.000
12	12+75	951.000	951.000	951.000	951.000	951.000
13	13+00	951.000	951.000	951.000	951.000	951.000
14	13+25	951.000	951.000	951.000	951.000	951.000
15	13+50	951.000	951.000	951.000	951.000	951.000

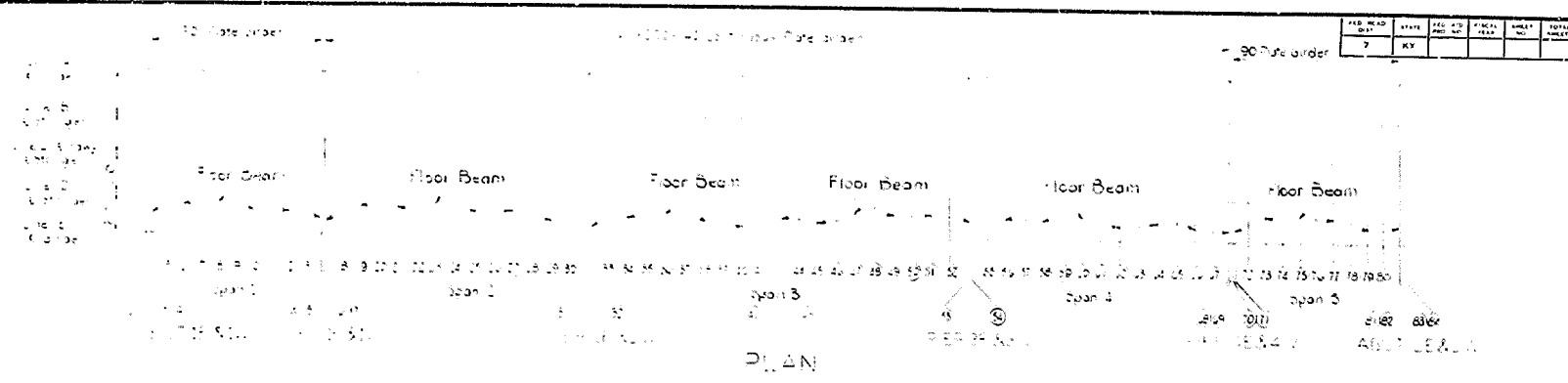
TABLE OF ELEVATIONS FOR SETTING SLAB FORMS FOR 90° PLATE GIRDER

SECTION	STATION	Line A	Line B	Line C	Line D	Line E
16	13+75	951.000	951.000	951.000	951.000	951.000
17	14+00	951.000	951.000	951.000	951.000	951.000
18	14+25	951.000	951.000	951.000	951.000	951.000
19	14+50	951.000	951.000	951.000	951.000	951.000
20	14+75	951.000	951.000	951.000	951.000	951.000
21	15+00	951.000	951.000	951.000	951.000	951.000
22	15+25	951.000	951.000	951.000	951.000	951.000
23	15+50	951.000	951.000	951.000	951.000	951.000
24	15+75	951.000	951.000	951.000	951.000	951.000
25	16+00	951.000	951.000	951.000	951.000	951.000
26	16+25	951.000	951.000	951.000	951.000	951.000
27	16+50	951.000	951.000	951.000	951.000	951.000
28	16+75	951.000	951.000	951.000	951.000	951.000
29	17+00	951.000	951.000	951.000	951.000	951.000
30	17+25	951.000	951.000	951.000	951.000	951.000
31	17+50	951.000	951.000	951.000	951.000	951.000
32	17+75	951.000	951.000	951.000	951.000	951.000
33	18+00	951.000	951.000	951.000	951.000	951.000
34	18+25	951.000	951.000	951.000	951.000	951.000
35	18+50	951.000	951.000	951.000	951.000	951.000
36	18+75	951.000	951.000	951.000	951.000	951.000
37	19+00	951.000	951.000	951.000	951.000	951.000
38	19+25	951.000	951.000	951.000	951.000	951.000
39	19+50	951.000	951.000	951.000	951.000	951.000
40	19+75	951.000	951.000	951.000	951.000	951.000
41	20+00	951.000	951.000	951.000	951.000	951.000
42	20+25	951.000	951.000	951.000	951.000	951.000
43	20+50	951.000	951.000	951.000	951.000	951.000
44	20+75	951.000	951.000	951.000	951.000	951.000
45	21+00	951.000	951.000	951.000	951.000	951.000
46	21+25	951.000	951.000	951.000	951.000	951.000
47	21+50	951.000	951.000	951.000	951.000	951.000
48	21+75	951.000	951.000	951.000	951.000	951.000
49	22+00	951.000	951.000	951.000	951.000	951.000
50	22+25	951.000	951.000	951.000	951.000	951.000
51	22+50	951.000	951.000	951.000	951.000	951.000
52	22+75	951.000	951.000	951.000	951.000	951.000
53	23+00	951.000	951.000	951.000	951.000	951.000
54	23+25	951.000	951.000	951.000	951.000	951.000
55	23+50	951.000	951.000	951.000	951.000	951.000
56	23+75	951.000	951.000	951.000	951.000	951.000
57	24+00	951.000	951.000	951.000	951.000	951.000
58	24+25	951.000	951.000	951.000	951.000	951.000
59	24+50	951.000	951.000	951.000	951.000	951.000
60	24+75	951.000	951.000	951.000	951.000	951.000
61	25+00	951.000	951.000	951.000	951.000	951.000
62	25+25	951.000	951.000	951.000	951.000	951.000
63	25+50	951.000	951.000	951.000	951.000	951.000
64	25+75	951.000	951.000	951.000	951.000	951.000
65	26+00	951.000	951.000	951.000	951.000	951.000
66	26+25	951.000	951.000	951.000	951.000	951.000
67	26+50	951.000	951.000	951.000	951.000	951.000
68	26+75	951.000	951.000	951.000	951.000	951.000
69	27+00	951.000	951.000	951.000	951.000	951.000

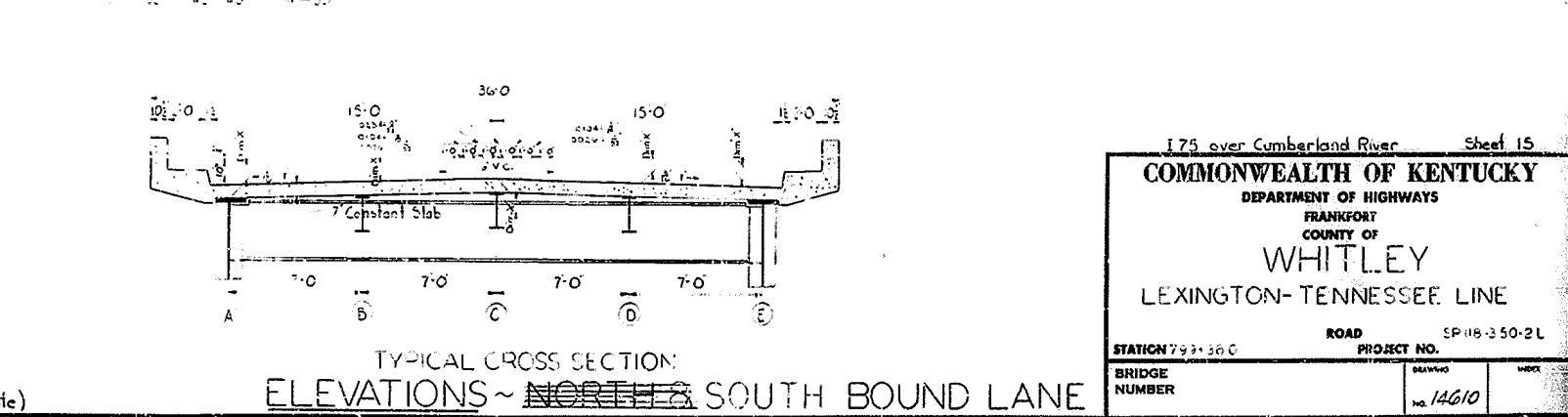
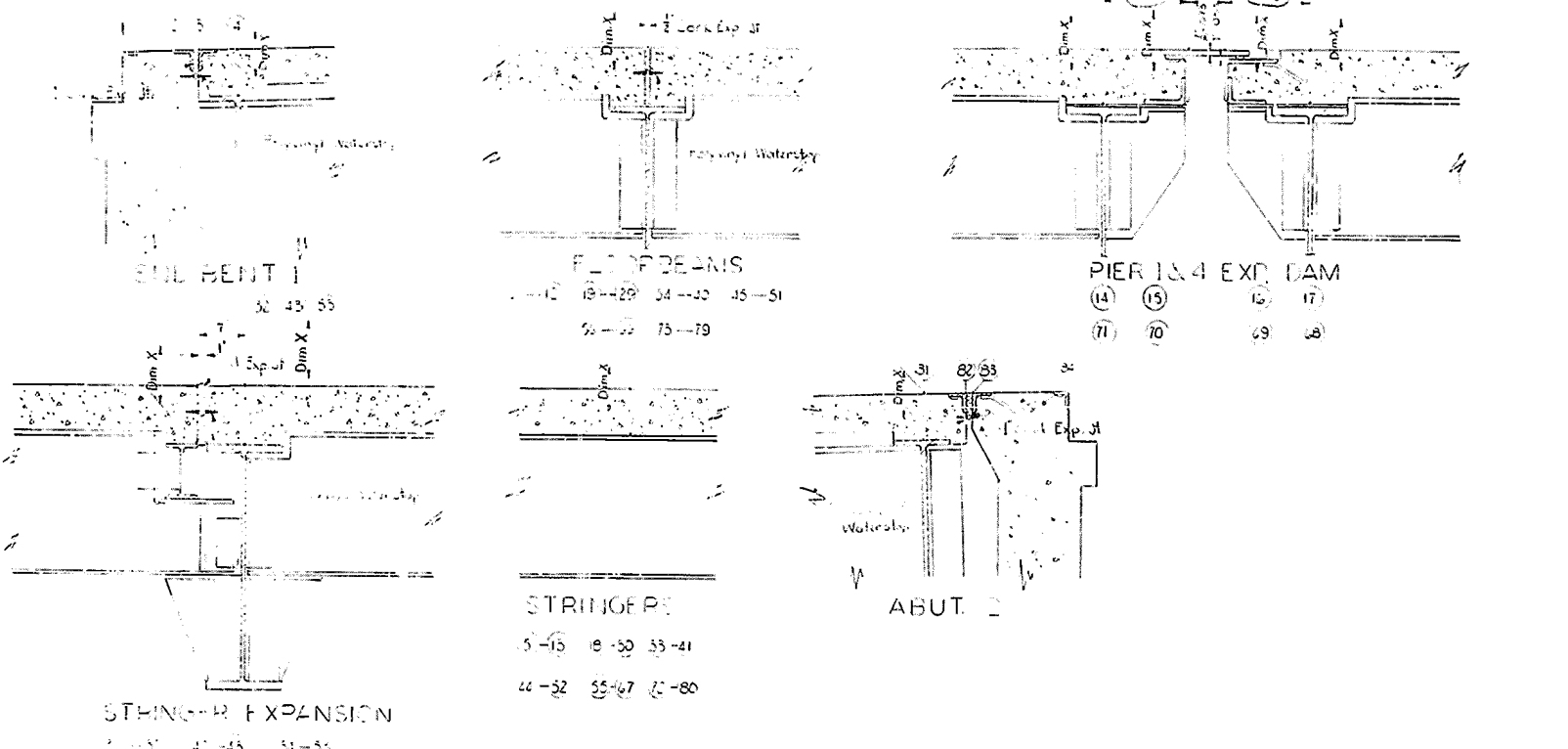
TABLE OF ELEVATIONS FOR SETTING SLAB FORMS FOR 90° PLATE GIRDER

SECTION	STATION	Line A	Line B	Line C	Line D	Line E
70	27+25	951.000	951.000	951.000	951.000	951.000
71	27+50	951.000	951.000	951.000	951.000	951.000
72	27+75	951.000	951.000	951.000	951.000	951.000
73	28+00	951.000	951.000	951.000	951.000	951.000
74	28+25	951.000	951.000	951.000	951.000	951.000
75	28+50	951.000	951.000	951.000	951.000	951.000
76	28+75	951.000	951.000	951.000	951.000	951.000
77	29+00	951.000	951.000	951.000	951.000	951.000
78	29+25	951.000	951.000	951.000	951.000	951.000
79	29+50	951.000	951.000	951.000	951.000	951.000
80	29+75	951.000	951.000	951.000	951.000	951.000
81	30+00	951.000	951.000	951.000	951.000	951.000
82	30+25	951.000	951.000	951.000	951.000	951.000
83	30+50	951.000	951.000	951.000	951.000	951.000
84	30+75	951.000	951.000	951.000	951.000	951.000

Stations shown are on Grade Line. Grade El. on E for information Only. (See Construction Note)



CONSTRUCTION NOTE
 1. Take elevations on top of steel at points indicated. After crossframes and lateral bracing 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 target rods and enter readings in Table under Steel Elevations.
 2. Concrete Slabs at A and B follow Construction Elevation minus Steel Elevation equals Dim. X. Construction Elevation includes camber due to weight of concrete.
 3. Side Plinth, Handrail and Future Surfacing, Grade 1' along E Roadway is final Elevation with curb in place and all falsework removed.
 4. Do not add templates. Measure Dim. X above top of steel for top of template. Do not set templates by Elevations.
 5. Do not add Handrail Plinth to Sidewalk Grade. Do not add Camber to Handrail Plinth.



TYPICAL CROSS SECTION ELEVATIONS ~ NORTH & SOUTH BOUND LANE

175 over Cumberland River Sheet 15
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
WHITLEY
 LEXINGTON-TENNESSEE LINE
 ROAD PROJECT NO. SP 118-350-2L
 STATION 793+36.0
 BRIDGE NUMBER 14610

TABLE OF ELEVATIONS FOR SETTING SLAB FORMS FOR 90° PLATE GIRDER

SECTION	STATION	Line A	Line B	Line C	Line D	Line E
		Const. El.	Steel El.	Dim. X Const. El.	Steel El.	Dim. X Const. El.
1	79+00	955.000	955.000	955.000	955.000	955.000
2	79+05	955.000	955.000	955.000	955.000	955.000
3	79+10	955.000	955.000	955.000	955.000	955.000
4	79+15	955.000	955.000	955.000	955.000	955.000
5	79+20	955.000	955.000	955.000	955.000	955.000
6	79+25	955.000	955.000	955.000	955.000	955.000
7	79+30	955.000	955.000	955.000	955.000	955.000
8	79+35	955.000	955.000	955.000	955.000	955.000
9	79+40	955.000	955.000	955.000	955.000	955.000
10	79+45	955.000	955.000	955.000	955.000	955.000
11	79+50	955.000	955.000	955.000	955.000	955.000
12	79+55	955.000	955.000	955.000	955.000	955.000
13	79+60	955.000	955.000	955.000	955.000	955.000
14	79+65	955.000	955.000	955.000	955.000	955.000
15	79+70	955.000	955.000	955.000	955.000	955.000

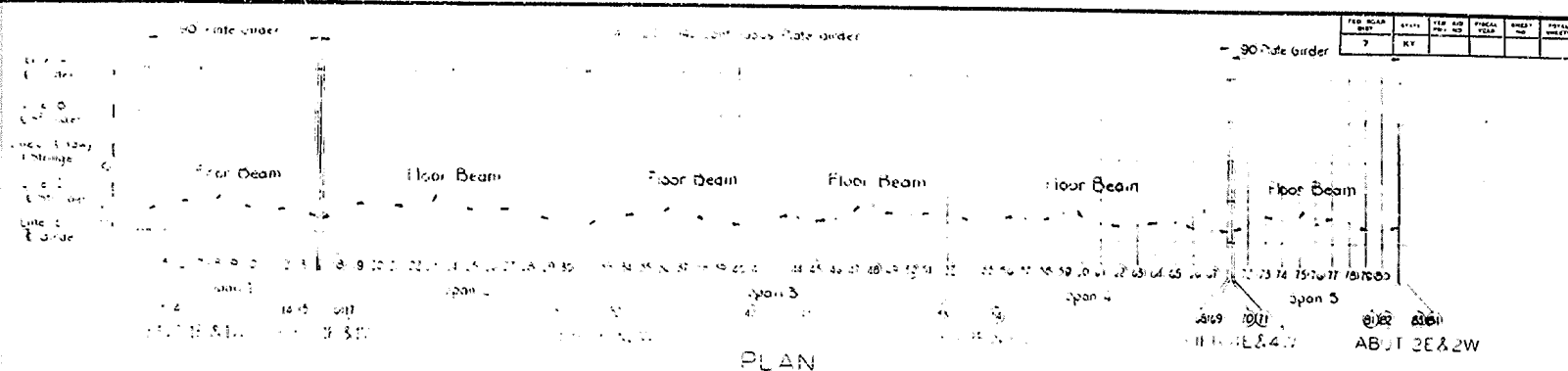
TABLE OF ELEVATIONS FOR SETTING SLAB FORMS FOR 140-200-140° PLATE GIRDER

SECTION	STATION	Line A	Line B	Line C	Line D	Line E
		Const. El.	Steel El.	Dim. X Const. El.	Steel El.	Dim. X Const. El.
16	79+75	955.000	955.000	955.000	955.000	955.000
17	79+80	955.000	955.000	955.000	955.000	955.000
18	79+85	955.000	955.000	955.000	955.000	955.000
19	79+90	955.000	955.000	955.000	955.000	955.000
20	79+95	955.000	955.000	955.000	955.000	955.000
21	80+00	955.000	955.000	955.000	955.000	955.000
22	80+05	955.000	955.000	955.000	955.000	955.000
23	80+10	955.000	955.000	955.000	955.000	955.000
24	80+15	955.000	955.000	955.000	955.000	955.000
25	80+20	955.000	955.000	955.000	955.000	955.000
26	80+25	955.000	955.000	955.000	955.000	955.000
27	80+30	955.000	955.000	955.000	955.000	955.000
28	80+35	955.000	955.000	955.000	955.000	955.000
29	80+40	955.000	955.000	955.000	955.000	955.000
30	80+45	955.000	955.000	955.000	955.000	955.000
31	80+50	955.000	955.000	955.000	955.000	955.000
32	80+55	955.000	955.000	955.000	955.000	955.000
33	80+60	955.000	955.000	955.000	955.000	955.000
34	80+65	955.000	955.000	955.000	955.000	955.000
35	80+70	955.000	955.000	955.000	955.000	955.000
36	80+75	955.000	955.000	955.000	955.000	955.000
37	80+80	955.000	955.000	955.000	955.000	955.000
38	80+85	955.000	955.000	955.000	955.000	955.000
39	80+90	955.000	955.000	955.000	955.000	955.000
40	80+95	955.000	955.000	955.000	955.000	955.000
41	81+00	955.000	955.000	955.000	955.000	955.000
42	81+05	955.000	955.000	955.000	955.000	955.000
43	81+10	955.000	955.000	955.000	955.000	955.000
44	81+15	955.000	955.000	955.000	955.000	955.000
45	81+20	955.000	955.000	955.000	955.000	955.000
46	81+25	955.000	955.000	955.000	955.000	955.000
47	81+30	955.000	955.000	955.000	955.000	955.000
48	81+35	955.000	955.000	955.000	955.000	955.000
49	81+40	955.000	955.000	955.000	955.000	955.000
50	81+45	955.000	955.000	955.000	955.000	955.000
51	81+50	955.000	955.000	955.000	955.000	955.000
52	81+55	955.000	955.000	955.000	955.000	955.000
53	81+60	955.000	955.000	955.000	955.000	955.000
54	81+65	955.000	955.000	955.000	955.000	955.000
55	81+70	955.000	955.000	955.000	955.000	955.000
56	81+75	955.000	955.000	955.000	955.000	955.000
57	81+80	955.000	955.000	955.000	955.000	955.000
58	81+85	955.000	955.000	955.000	955.000	955.000
59	81+90	955.000	955.000	955.000	955.000	955.000
60	81+95	955.000	955.000	955.000	955.000	955.000
61	82+00	955.000	955.000	955.000	955.000	955.000
62	82+05	955.000	955.000	955.000	955.000	955.000
63	82+10	955.000	955.000	955.000	955.000	955.000
64	82+15	955.000	955.000	955.000	955.000	955.000
65	82+20	955.000	955.000	955.000	955.000	955.000
66	82+25	955.000	955.000	955.000	955.000	955.000
67	82+30	955.000	955.000	955.000	955.000	955.000
68	82+35	955.000	955.000	955.000	955.000	955.000
69	82+40	955.000	955.000	955.000	955.000	955.000

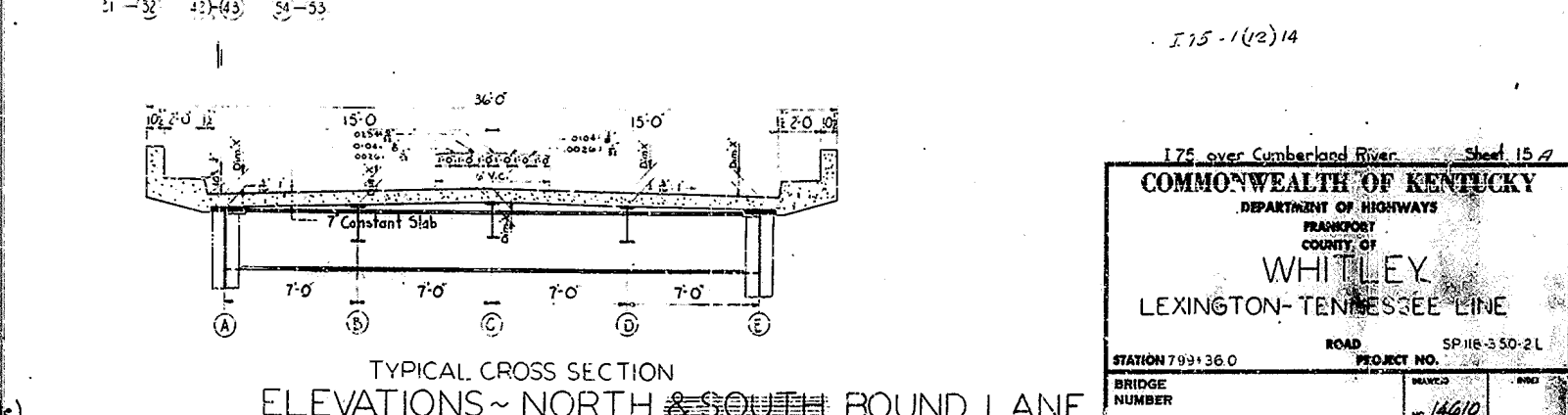
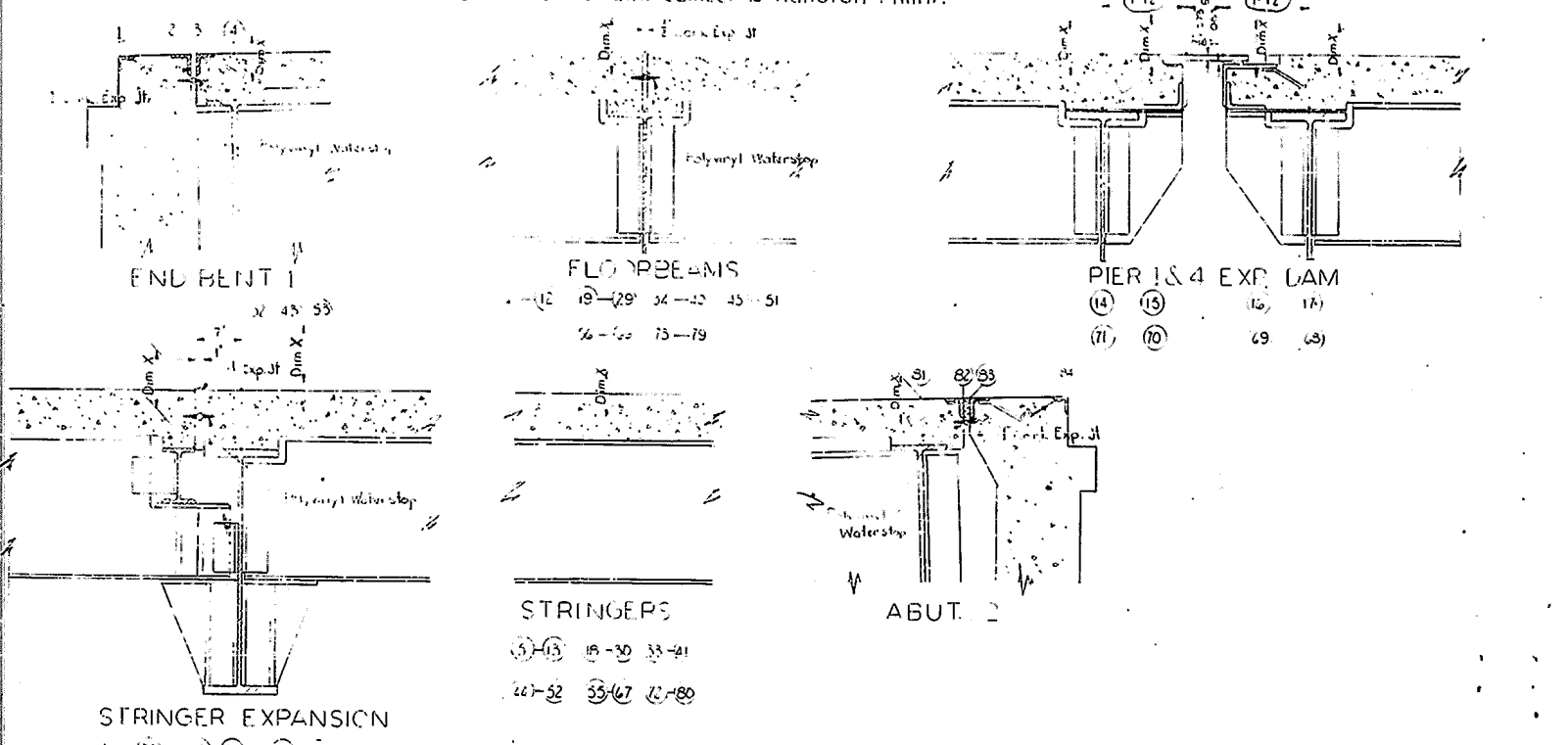
TABLE OF ELEVATIONS FOR SETTING SLAB FORMS FOR 90° PLATE GIRDER

SECTION	STATION	Line A	Line B	Line C	Line D	Line E
		Const. El.	Steel El.	Dim. X Const. El.	Steel El.	Dim. X Const. El.
70	82+45	955.000	955.000	955.000	955.000	955.000
71	82+50	955.000	955.000	955.000	955.000	955.000
72	82+55	955.000	955.000	955.000	955.000	955.000
73	82+60	955.000	955.000	955.000	955.000	955.000
74	82+65	955.000	955.000	955.000	955.000	955.000
75	82+70	955.000	955.000	955.000	955.000	955.000
76	82+75	955.000	955.000	955.000	955.000	955.000
77	82+80	955.000	955.000	955.000	955.000	955.000
78	82+85	955.000	955.000	955.000	955.000	955.000
79	82+90	955.000	955.000	955.000	955.000	955.000
80	82+95	955.000	955.000	955.000	955.000	955.000
81	83+00	955.000	955.000	955.000	955.000	955.000
82	83+05	955.000	955.000	955.000	955.000	955.000
83	83+10	955.000	955.000	955.000	955.000	955.000
84	83+15	955.000	955.000	955.000	955.000	955.000

Stations shown are on Grade Line. Grade El. on E for information only. (See construction Note)



CONSTRUCTION NOTE
Take elevations on top of steel at points indicated. After cross frames and lateral bracing 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 target and enter readings in Table under Steel Elevations.
Careful dimensions on X as follows: Construction Elevation minus Steel Elevation equals Dim. X. Construction Elevation includes camber due to weight of concrete slab, Plinth, Handrail and future surfacing. Mode 1 along E Roadway's final elevation with slab in place and all falsework removed.
Use standard templates measure Dim. X between points indicated on template. Do not set templates by Elevations.
4. Do not add Handrail Plinth sidewalk finish. Do not add camber to Handrail Plinth.



ELEVATIONS ~ NORTH & SOUTH BOUND LANE

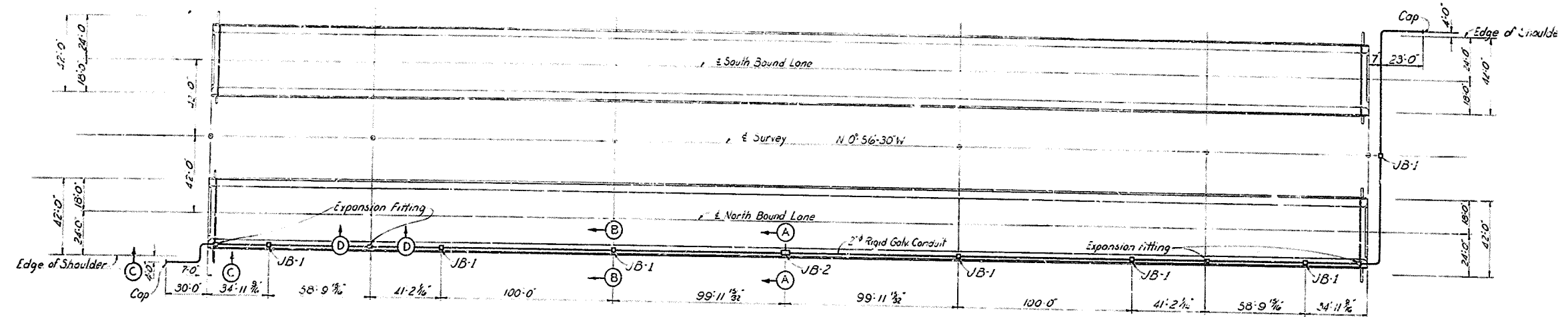
175 over Cumberland River Sheet 15 A

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY, KY

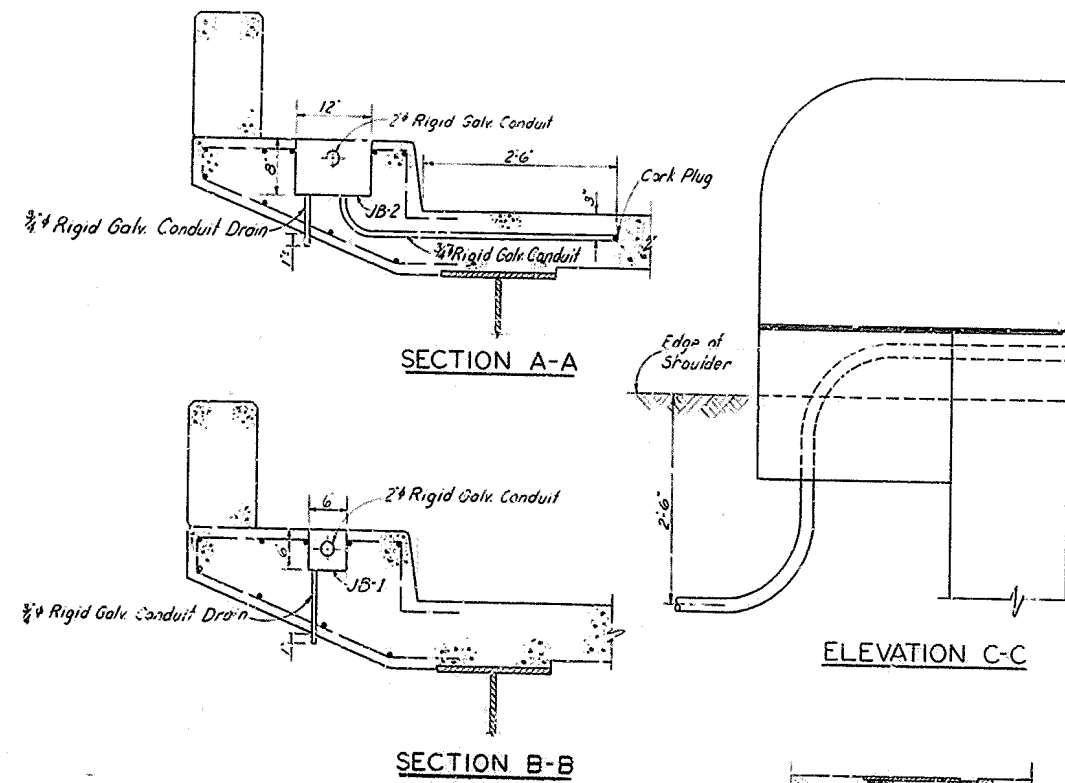
WHITLEY
LEXINGTON-TENNESSEE LINE

STATION 79+36.0 ROAD SP11R-350-2L

BRIDGE NUMBER PROJECT NO. 14610

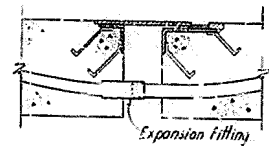


PLAN



SECTION B-B

ELEVATION C-C



SECTION D-D

BILL OF MATERIAL

2" Galv. Rigid-Conduit	840 Lin. Ft.
2" Galv. Rigid-Conduit	8 Lin. Ft.
Junction Box-JB1 - 02 Type YR-(16"x6"x6") or approved equal	7 Each
Junction Box-JB2 - 02 Type YR-(18"x12"x8") or approved equal	1 Each
Expansion Fitting (Crouse-Hinds XJ641 with GC-100 grounding straps)	4 Each
2" Galv. Conduit Caps	2 Each

Note: Junction boxes and conduit are to be placed so as to interfere with a minimum amount of reinforcement. Bond reinforcement where necessary.

ELECTRICAL CONDUIT DETAILS

I-75 OVER CUMBERLAND RIVER

COMMONWEALTH OF TENNESSEE
DEPARTMENT OF HIGHWAYS
FRANKFORD COUNTY
WHITLEY
LEXINGTON - TENNESSEE
ROAD

STATION 799+36.0
BRIDGE NUMBER