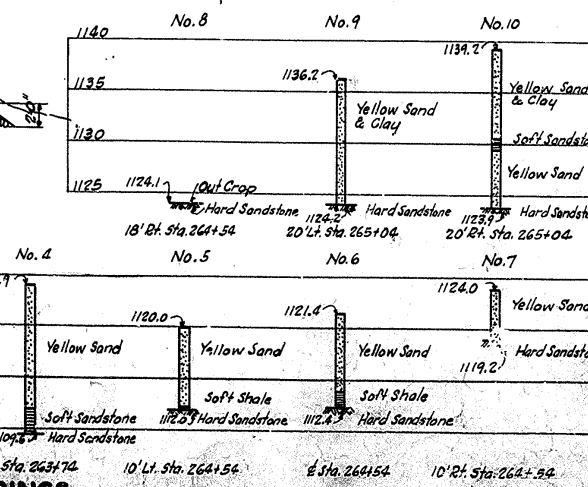
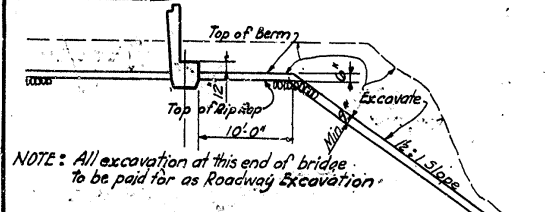
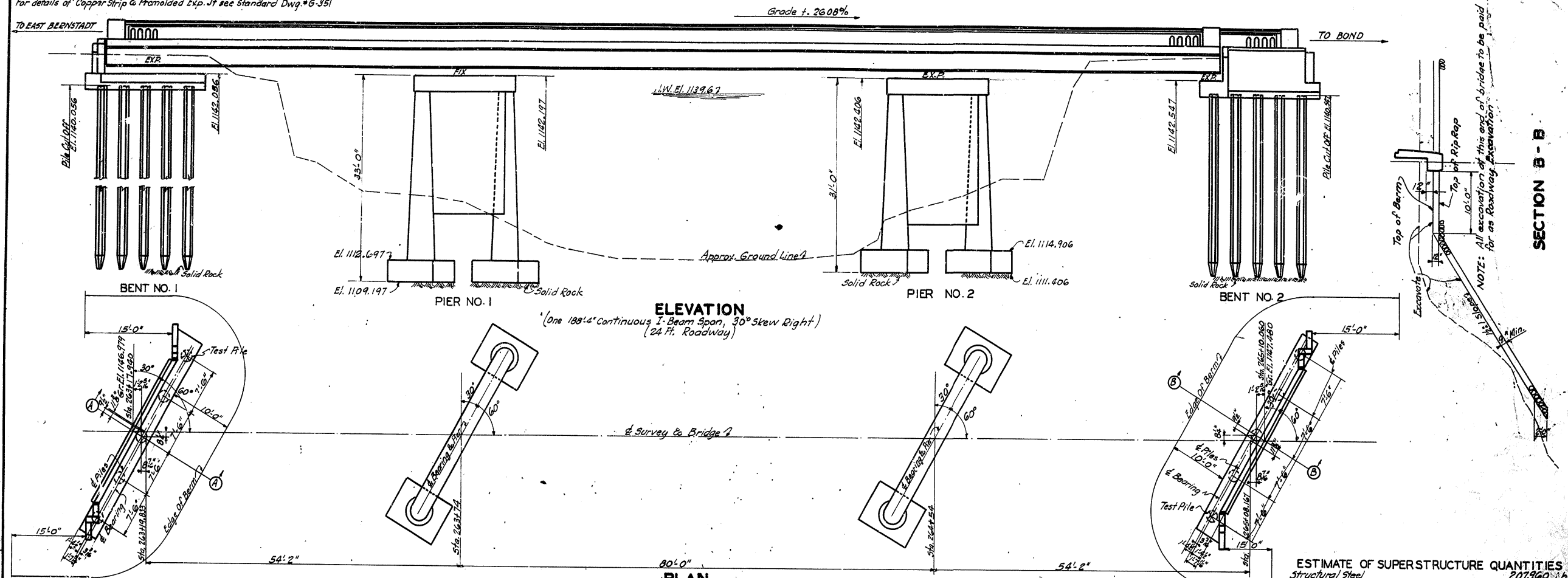


FED. ROAD DIST.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
T	KY.				

REFERENCE:

For details of 18" R.C. Precast Piles see Standard Drawing # P-1
 For details of R.C. Bent Caps Nos. 1 & 2 see sheet 2 of this drawing
 For details of R.C. Piers No. 1 & 2 see sheet 3 of this drawing
 For details of 16" x 4" Continuous span see sheet 4 of this drawing
 For details of R.C. Slab see sheet 6 of this drawing
 For details of R.C. Handrail see sheet 7 of this drawing
 For details of Copper Strip & Promolded Exp. Jt see Standard Dwg. #6-351

For details of expansion dam see sheet 5 of this drawing.
 For details of shoes see sheet 5 of this drawing.
 For Table of Elevations & Deflections see sheet 8 of this drawing.
 For sketch and information of existing bridge see sheet 9 of this drawing.



GENERAL NOTE:

SPECIFICATIONS: Kentucky Department of Highways (1936 Standard)
DESIGN LOAD: Bridge designed for H-15 loading as specified in A.A.S.H.O. Specifications 1935
CONCRETE: Class "A" concrete to be used thruout except in handrail and piles. Class "D" concrete shall be used in handrail and piles.
REINFORCEMENT: Dimension shown from face of concrete is clear distance.
BEVELED EDGES: All exposed edges shall be beveled 1/8" unless otherwise noted.
EXPANSION JOINT MATERIAL, COPPER STRIP: The cost of these items to be included in the unit price bid for Class "A" concrete.
FOUNDRY NOTE: All drains to be gray iron castings A.S.T.M. Specifications A48-36 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.
PILING: Piles to be driven to refusal or to sustain a minimum load of 50 tons per pile.
A.S.T.M. SPECIFICATIONS, SERIAL NUMBERS: As required by Department of Highways of Kentucky:
 Structural Steel A 7-36
 Structural Steel Rivets A 141-36
 Steel Forgings A 20-31T
 Steel Castings A 27-36T Grade B-2
 Gray Iron Castings A 48-36

ESTIMATE OF SUPERSTRUCTURE QUANTITIES

Structural Steel	207,960 Lbs.
Concrete, Class "A"	1433 Cu.Yds.
Concrete, Class "D"	179 Cu.Yds.
Reinforcement	35,480 Lbs.

ESTIMATE OF SUBSTRUCTURE QUANTITIES

Concrete, Class "A"	164.8 Cu.Yds.
Reinforcement	20,720 Lbs.
10-18" R.C. Piles	300 Lin.Ft.
Structure Excavation (Unclassified)	380 Cu.Yds.
Dry Rip Rap 9" Min.	400 Sq.Yds.

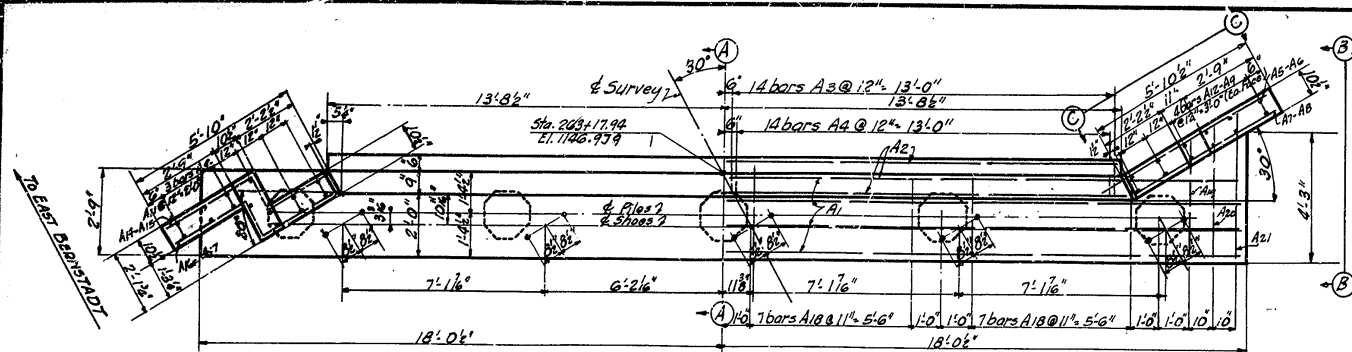
TOTAL ESTIMATE OF QUANTITIES

Structural Steel	207,960 Lbs.
Concrete, Class "A"	3081 Cu.Yds.
Concrete, Class "D"	179 Cu.Yds.
Reinforcement	56,200 Lbs.
10-18" R.C. Precast Piles	300 Lin.Ft.
Structure Excavation (Unclassified) (Piers Only)	380 Cu.Yds.
Dry Rip Rap 9" Min.	400 Sq.Yds.
Remove Existing Bridge	Lump Sum Bid
BRIDGE OVER ROCKCASTLE RIVER	6-351-01

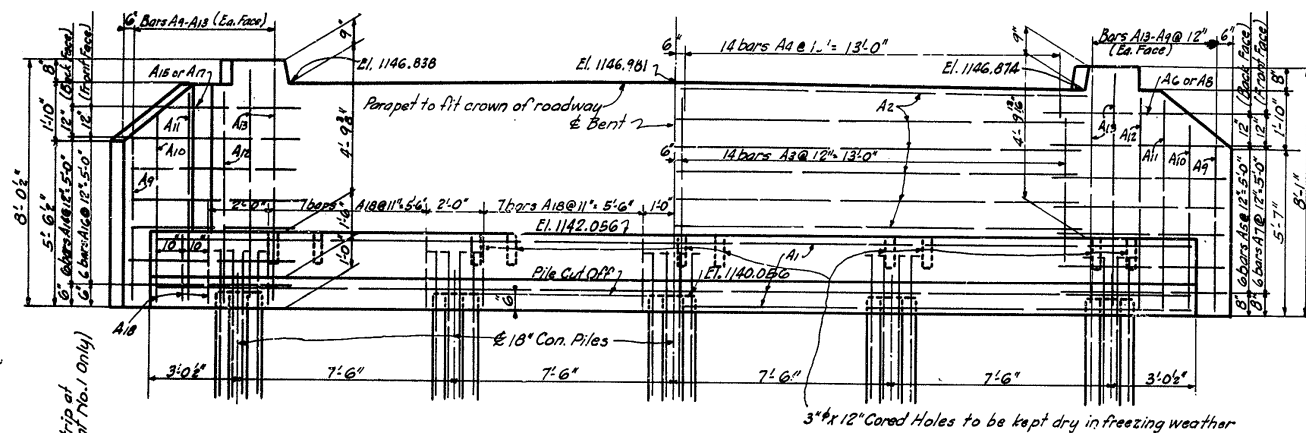
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
LAUREL
EAST BERNSTADT - BOND
 ROAD PROJECT NO. 23-21
 STATION 263+14

SECTION B-B

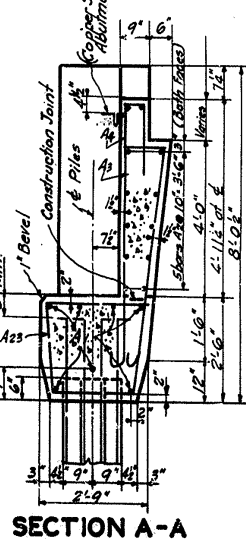
NOTE: All excavation at this end of bridge to be paid for as Roadway Excavation.



PLAN OF BENT NO. 1

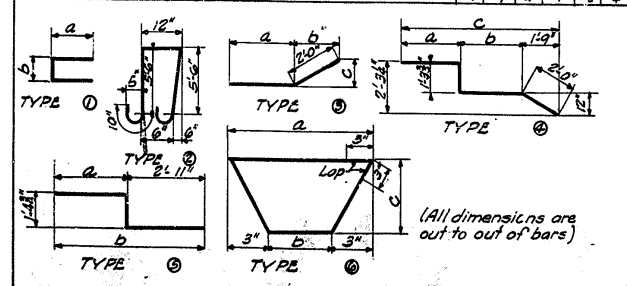


FRONT ELEVATION

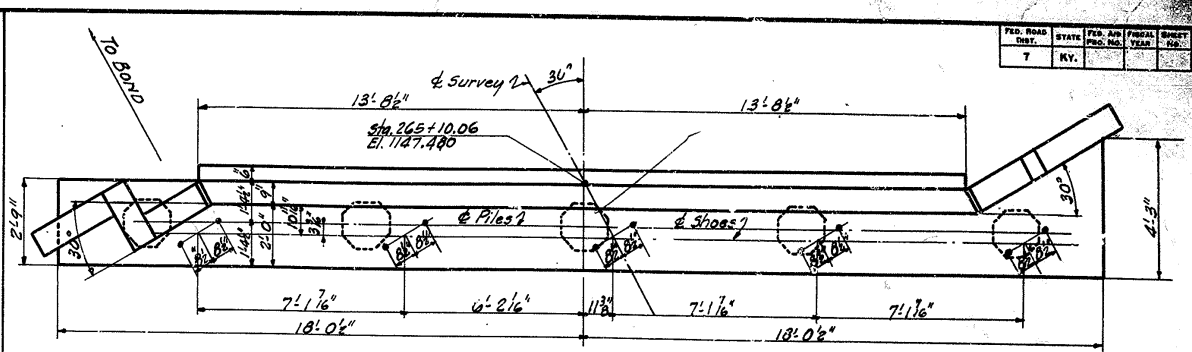


SECTION A-A

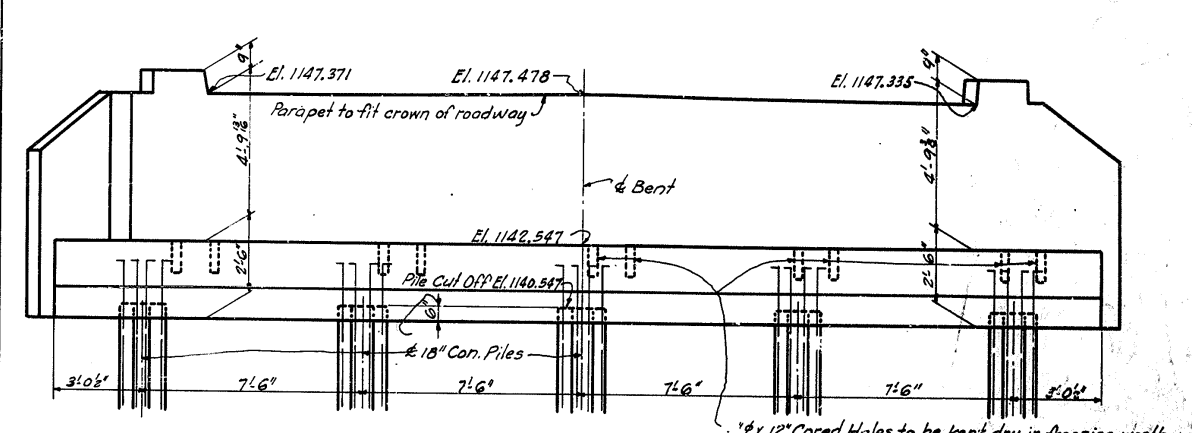
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1	Str.	7	12	Cap	1	12	0	0	0
2	Str.	7	12	Parapet	1	12	0	0	0
3	Str.	7	12	Wing Back Face	1	12	0	0	0
4	Str.	7	12	Wing Front Face	1	12	0	0	0
5	Str.	7	12	Each Face Of Wing	1	12	0	0	0
6	Str.	7	12	Back Face Of Wing	1	12	0	0	0
7	Str.	7	12	Front " "	1	12	0	0	0
8	Str.	7	12	Cap Hoops	1	12	0	0	0
9	Str.	7	12	" "	1	12	0	0	0
10	Str.	7	12	" "	1	12	0	0	0
11	Str.	7	12	" "	1	12	0	0	0
12	Str.	7	12	" "	1	12	0	0	0
13	Str.	7	12	" "	1	12	0	0	0
14	Str.	7	12	" "	1	12	0	0	0
15	Str.	7	12	" "	1	12	0	0	0
16	Str.	7	12	" "	1	12	0	0	0
17	Str.	7	12	" "	1	12	0	0	0
18	Str.	7	12	" "	1	12	0	0	0
19	Str.	7	12	" "	1	12	0	0	0
20	Str.	7	12	" "	1	12	0	0	0
21	Str.	7	12	" "	1	12	0	0	0
22	Str.	7	12	" "	1	12	0	0	0
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30	Str.	7	12	" "	1	12	0	0	0
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DETAILS OF BENT NO. 1

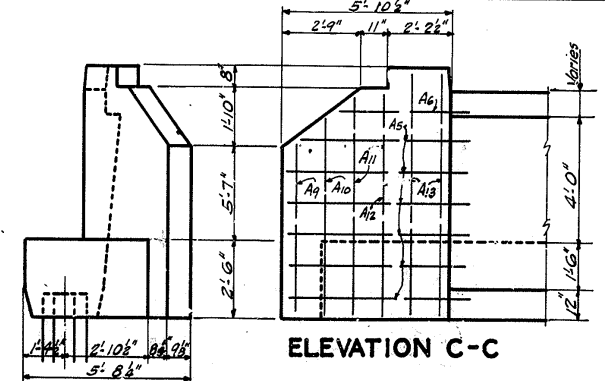


PLAN OF BENT NO. 2



FRONT ELEVATION

GENERAL NOTE:
 SPECIFICATIONS - Kentucky Department of Highways (1938 Standard)
 CONCRETE - Class "A" throughout.
 REINFORCEMENT - Dimension shown from face of concrete is clear distance.



ELEVATION B-B and ELEVATION C-C

ESTIMATE OF QUANTITIES
 CONCRETE, CLASS "A"
 REINFORCEMENT
 16.7 CU. YDS.
 2640 LBS.

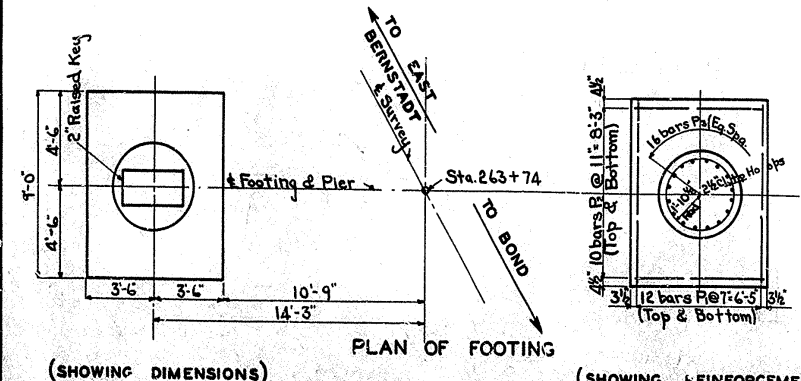
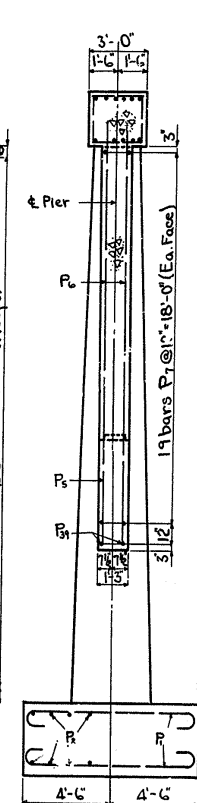
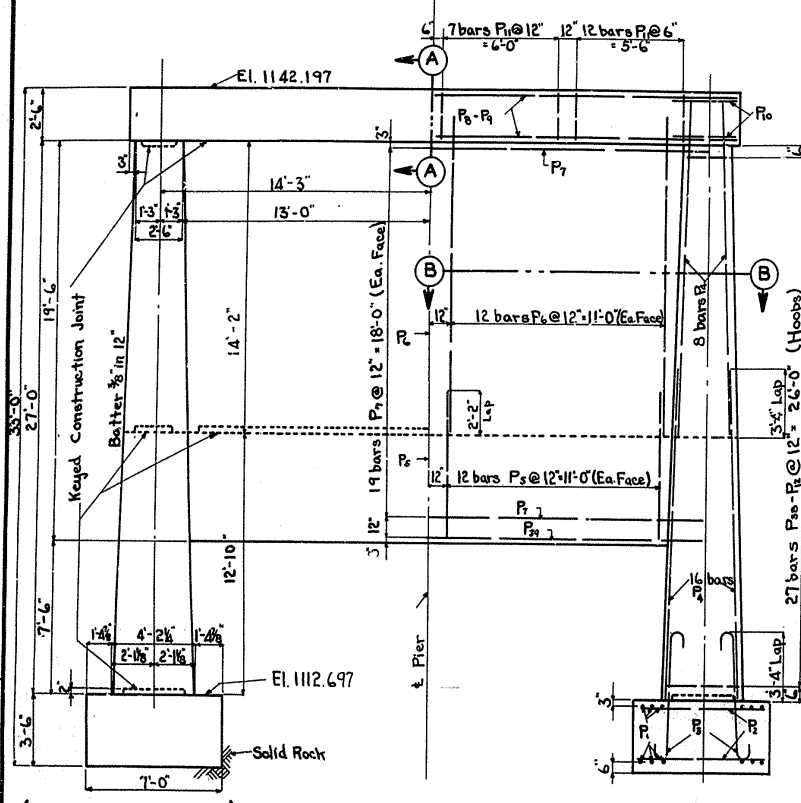
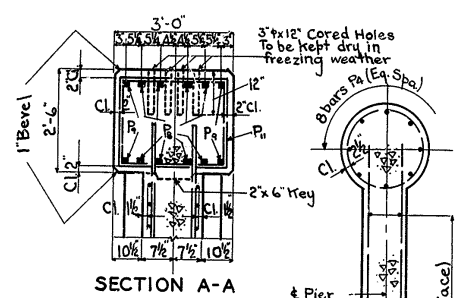
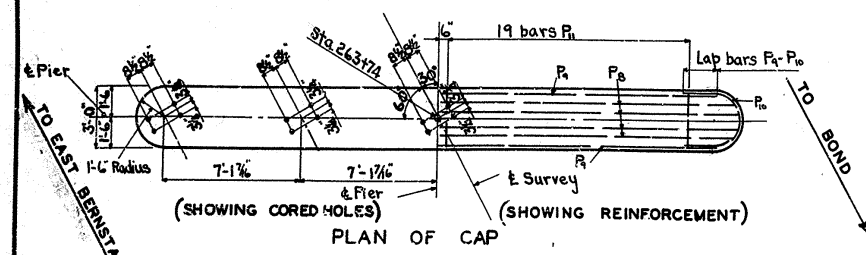
ESTIMATE OF QUANTITIES
 CONCRETE, CLASS "A"
 REINFORCEMENT
 16.7 CU. YDS.
 2640 LBS.

NOTE:
 Bent No. 2 same as bent No. 1 except as shown and noted.
 See bent No. 1 for Bill of Reinforcement.

DETAILS OF BENT NO. 2

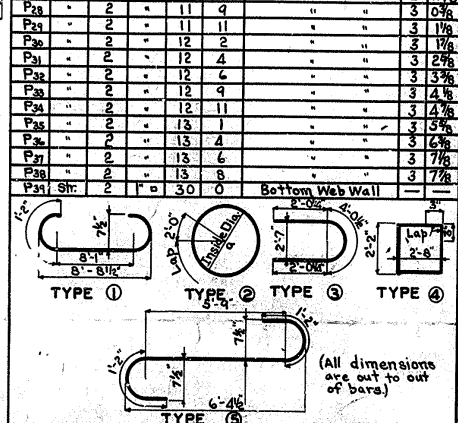
BRIDGE OVER ROCKCASTLE RIVER

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
 LAUREL
 EAST BERNSTADT - BOND
 ROAD
 STATION 265+10.06

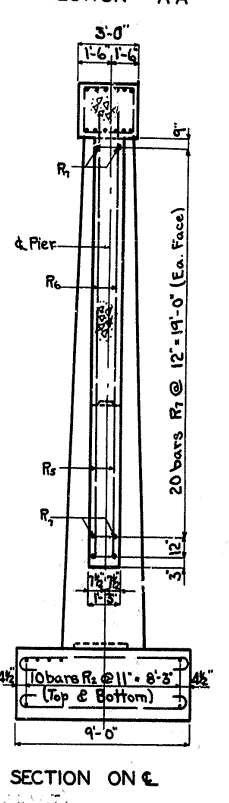
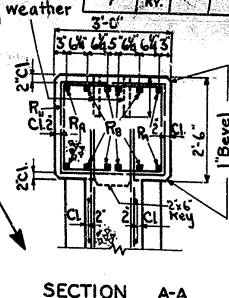
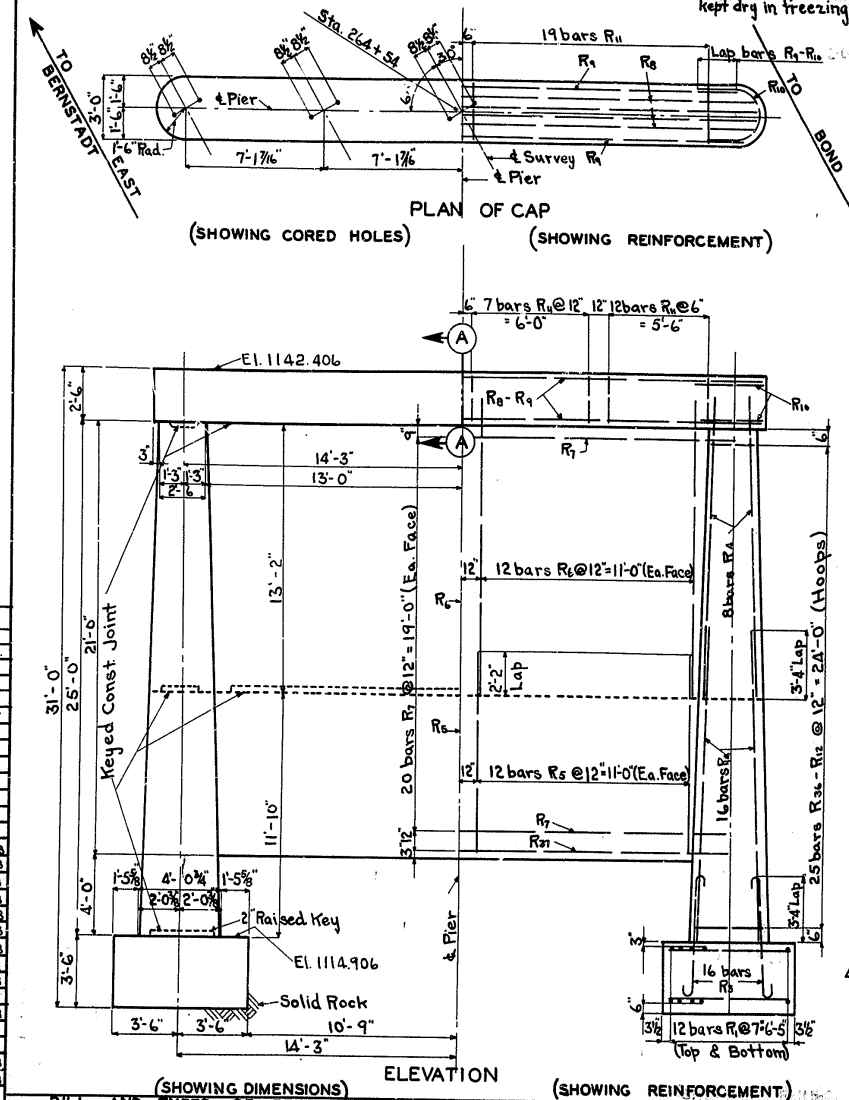


DETAILS OF PIER NO. 1

BILL AND TYPES OF REINFORCEMENT									
MARK	TYPE	NO.	SIZE	Length	Location	FT.	IN.		
P1	(1)	48	3/4"	10	Footings				
P2	STR	40	1/2"	6					
P3	(2)	32	1/2"	6	Column Dowels				
P4	STR	48	1/2"	7	Columns				
P5	(3)	50	1/2"	5	Web Wall				
P6	(4)	50	1/2"	15					
P7	(5)	28	1/2"	28					
P8	(6)	8	1/2"	31	Cap				
P9	(7)	4	1/2"	28					
P10	(8)	4	1/2"	8					
P11	(9)	38	1/2"	4	Cap Hoops				
P12	(10)	2	1/2"	8	Column Hoops				
P13	(11)	2	1/2"	8					
P14	(12)	2	1/2"	4					
P15	(13)	2	1/2"	4					
P16	(14)	2	1/2"	4					
P17	(15)	2	1/2"	4					
P18	(16)	2	1/2"	4					
P19	(17)	2	1/2"	4					
P20	(18)	2	1/2"	4					
P21	(19)	2	1/2"	4					
P22	(20)	2	1/2"	4					
P23	(21)	2	1/2"	4					
P24	(22)	2	1/2"	4					
P25	(23)	2	1/2"	4					
P26	(24)	2	1/2"	4					
P27	(25)	2	1/2"	4					
P28	(26)	2	1/2"	4					
P29	(27)	2	1/2"	4					
P30	(28)	2	1/2"	4					
P31	STR	2	1/2"	30	Bottom Web Wall				



BILL AND TYPES OF REINFORCEMENT									
MARK	TYPE	NO.	SIZE	Length	Location	FT.	IN.		
R1	(1)	48	3/4"	10	Footings				
R2	STR	40	1/2"	6					
R3	(2)	32	1/2"	6	Column Dowels				
R4	STR	48	1/2"	7	Columns				
R5	(3)	50	1/2"	5	Web Wall				
R6	(4)	50	1/2"	15					
R7	(5)	28	1/2"	28					
R8	(6)	8	1/2"	31	Cap				
R9	(7)	4	1/2"	28					
R10	(8)	4	1/2"	8					
R11	(9)	38	1/2"	4	Cap Hoops				
R12	(10)	2	1/2"	8	Column Hoops				
R13	(11)	2	1/2"	8					
R14	(12)	2	1/2"	4					
R15	(13)	2	1/2"	4					
R16	(14)	2	1/2"	4					
R17	(15)	2	1/2"	4					
R18	(16)	2	1/2"	4					
R19	(17)	2	1/2"	4					
R20	(18)	2	1/2"	4					
R21	(19)	2	1/2"	4					
R22	(20)	2	1/2"	4					
R23	(21)	2	1/2"	4					
R24	(22)	2	1/2"	4					
R25	(23)	2	1/2"	4					
R26	(24)	2	1/2"	4					
R27	(25)	2	1/2"	4					
R28	(26)	2	1/2"	4					
R29	(27)	2	1/2"	4					
R30	(28)	2	1/2"	4					
R31	STR	2	1/2"	30	Bottom Web Wall				



DETAILS OF PIER NO. 2

BRIDGE OVER ROCKCASTLE RIVER SH. 3 OF 9

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS

FRANKFORT

COUNTY OF

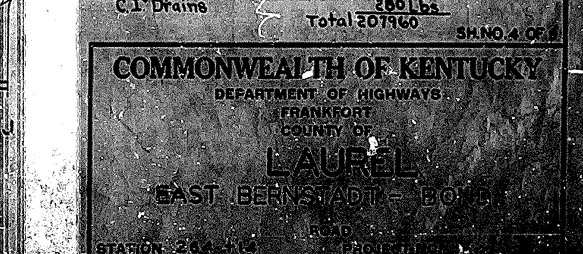
LAUREL

EAST BERNSTADT - BOND

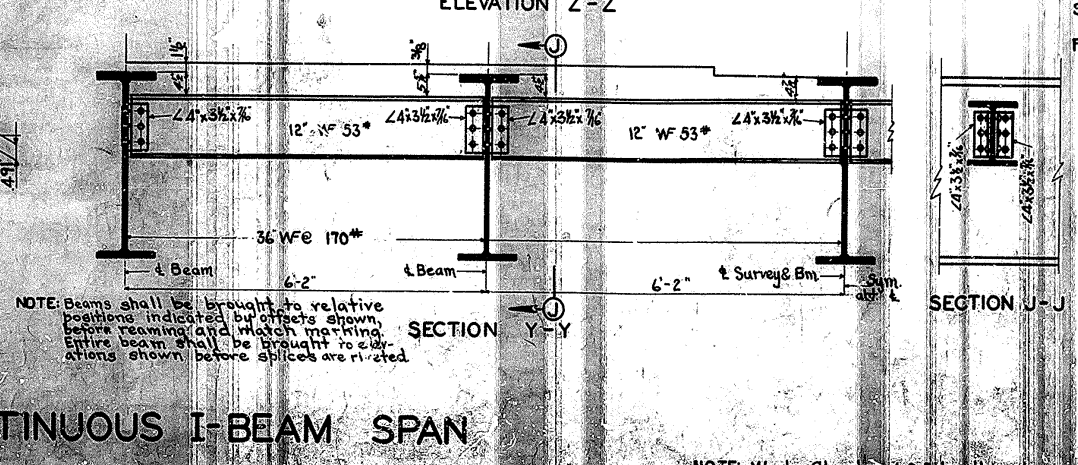
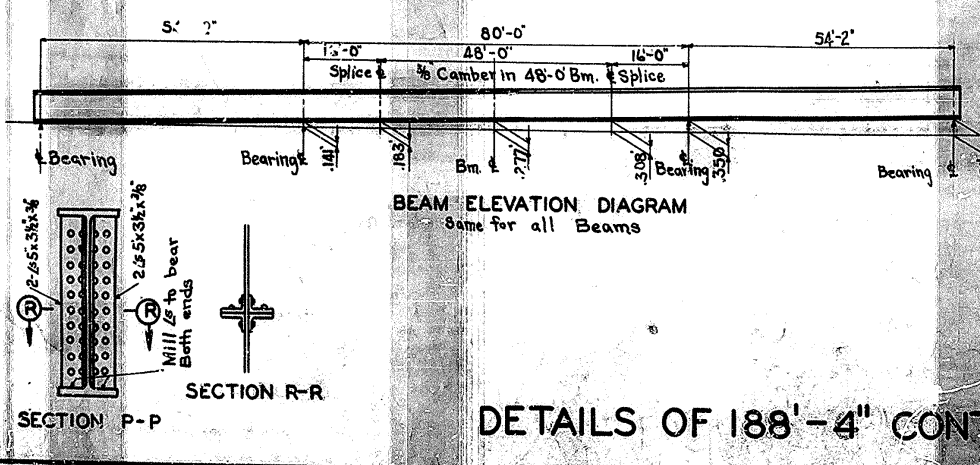
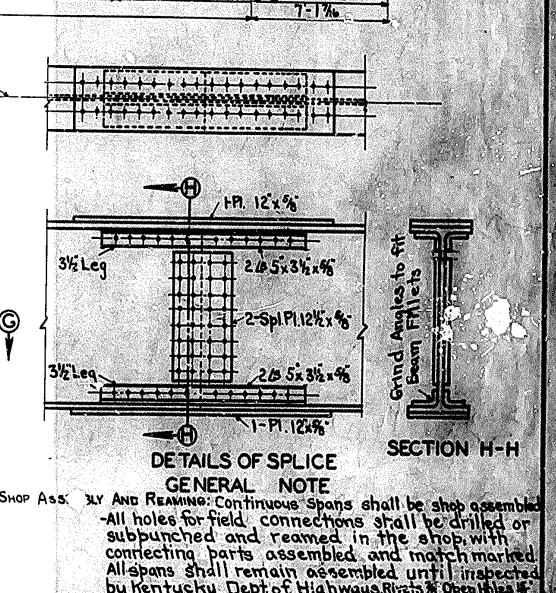
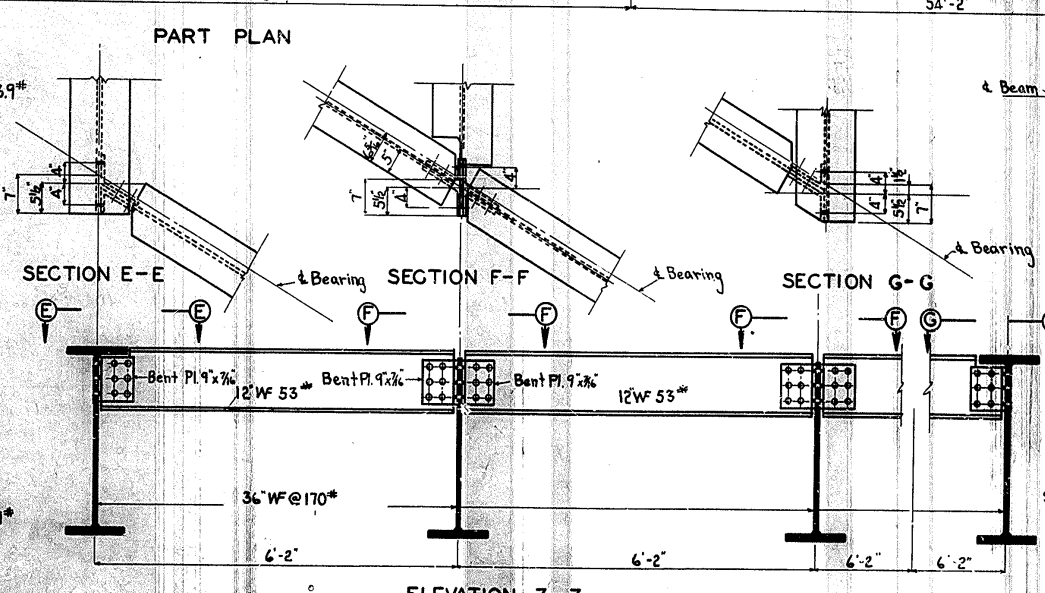
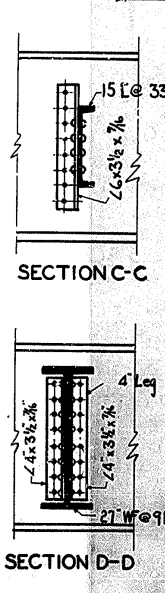
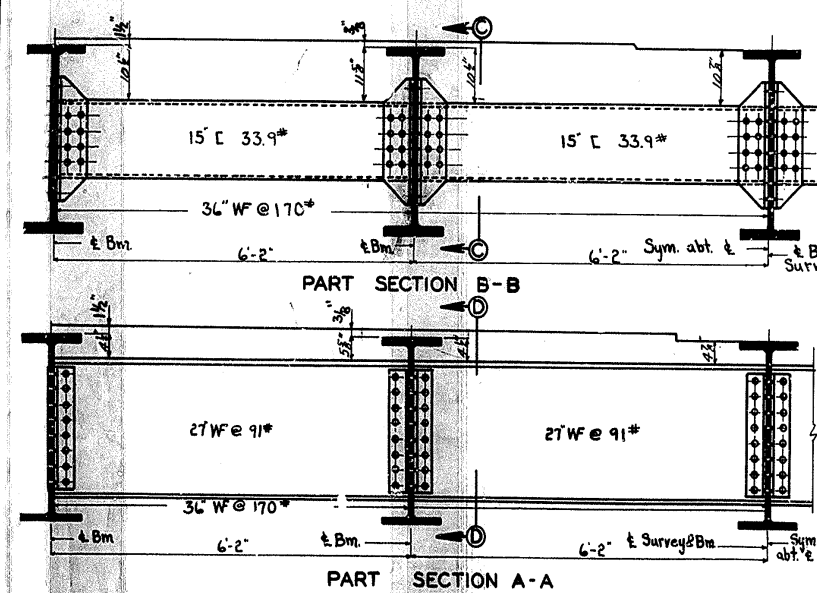
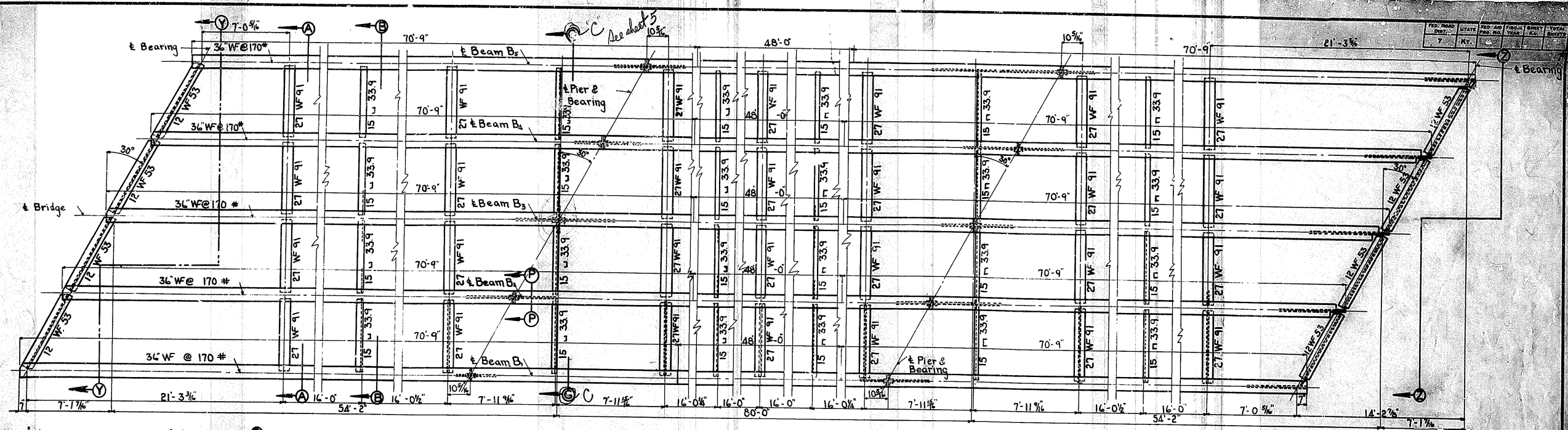
ROAD

STATION 264 + 14 PROJECT NO.

63-31-2 7393



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
LAUREL
EAST BERNSTADT - BOX 1
ROAD
STATION 204-114



GENERAL NOTE
 SHOP ASSEMBLY AND REAMING: Continuous spans shall be shop assembled. All holes for field connections shall be drilled or subpunched and reamed in the shop, with connecting parts assembled and match marked. All spans shall remain assembled until inspected by Kentucky Dept. of Highways. Rivets & Open Holes: On all steel to be red lead or basic sulphate blue lead.
 SHOP PAINT: Two coats of field paint to be applied in accordance with specifications.
 FIELD PAINT: All dimensions on steel are based on a temperature of 60° Fahrenheit.

ESTIMATE OF QUANTITIES

Structural Steel	203130 Lbs.
Cast Steel	4310 Lbs.
Forged Steel	240 Lbs.
C.I. Drains	280 Lbs.
Total	207960

SH. NO. 4 OF 5

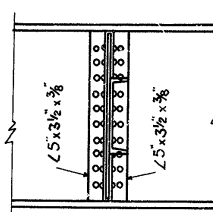
COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 FRANKFORT
 COUNTY OF
LAUREL
 EAST BERNSTADT - BOND
 ROAD
 STATION 264 + 14 PROJECT 7 RD

DETAILS OF 188'-4" CONTINUOUS I-BEAM SPAN

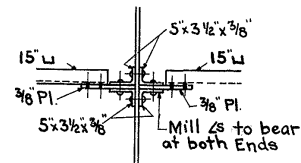
NOTE: Beams shall be brought to relative positions indicated by offsets shown, before reaming and match marking. Entire beam shall be brought to elevations shown before splices are riveted.

NOTE: Work Sheets 1 & 5 together.

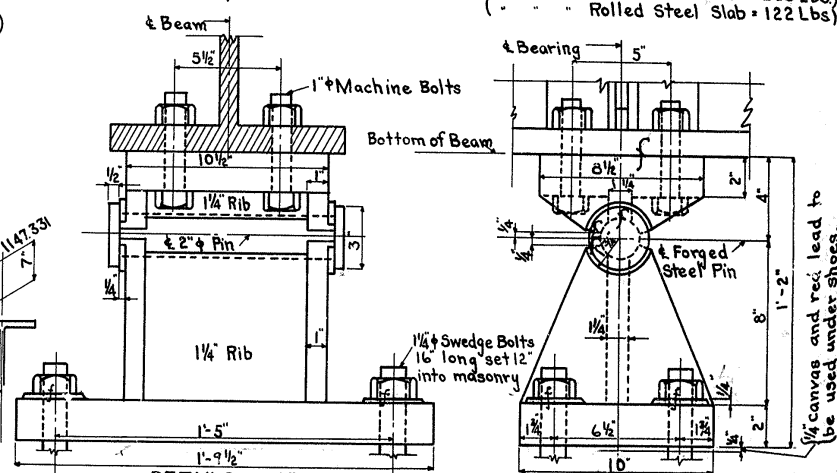
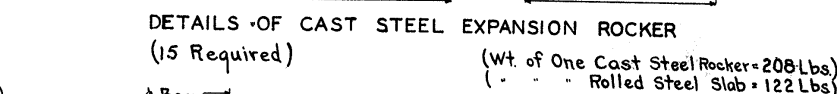
DESIGNED BY: C. F. C. CHECKED BY: C. F. C. DATE: 12-2-39
 DRAWN BY: R. E. D. DATE: 12-2-39
 REVISIONS: 1. 12-2-39
 2. 12-2-39
 3. 12-2-39



SECTION L - L

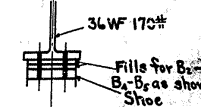


SECTION N-N

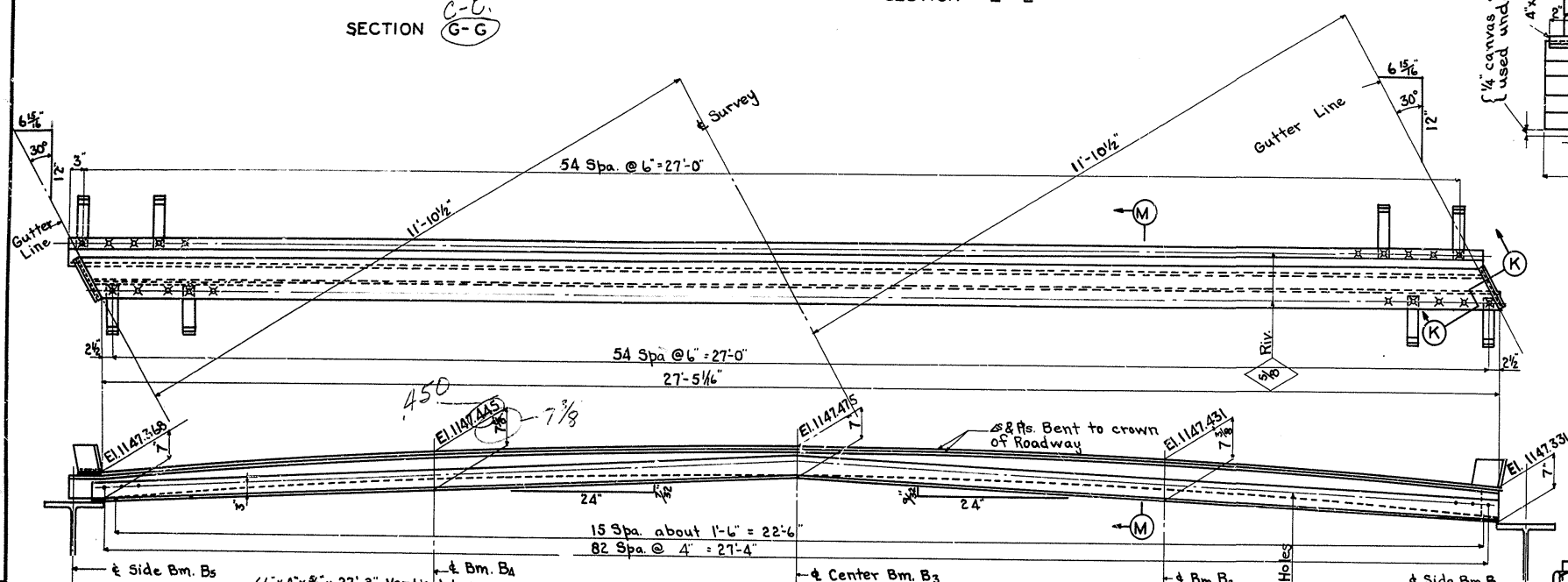


DETAILS OF CAST STEEL FIXED SHOES

Wt. of One Shoe Complete = 237 Lbs.
(5 Required)

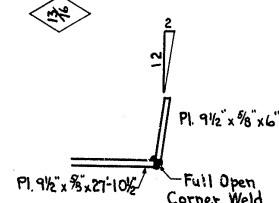


LOCATION OF FILLS

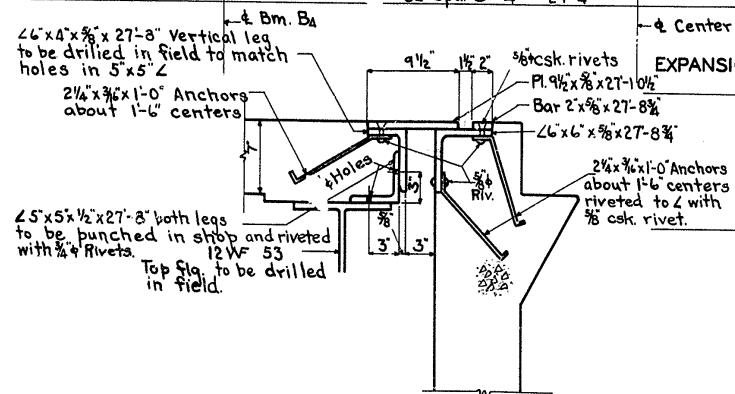


EXPANSION DAM DETAILS

To be furnished by superstructure Contractor & placed by sub-structure contractor.



SECTION K-K



SECTION M - M

Bm. B ₂	2- $\frac{5}{8}$ "	fills each	Shoe	8 Reg.
Bm. B ₃	1- $\frac{3}{4}$ "	fill		8 Reg.
Bm. B ₄	1- $\frac{1}{2}$ "			8 Reg.
Bm. B ₅	1- $\frac{1}{4}$ "			8 Reg.
	1- $\frac{1}{8}$ "			8 Reg.

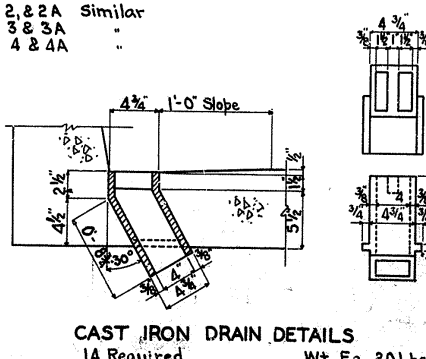
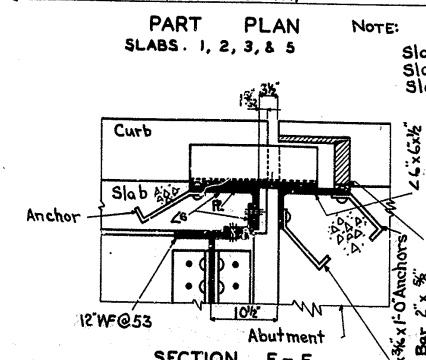
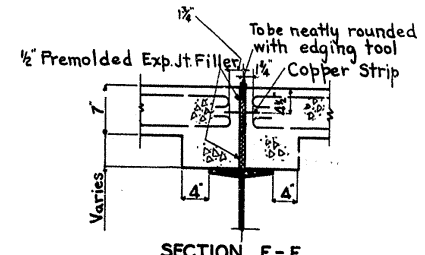
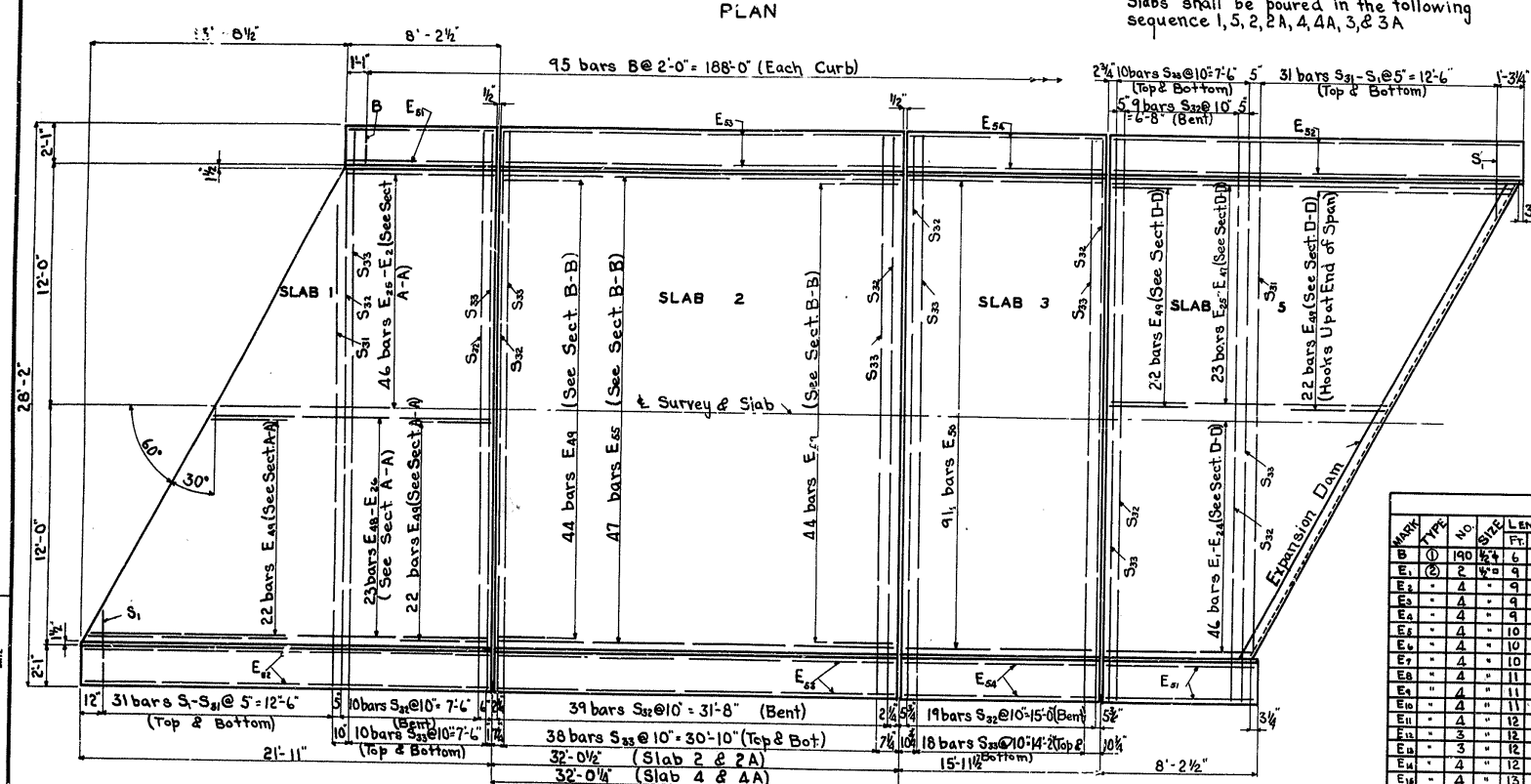
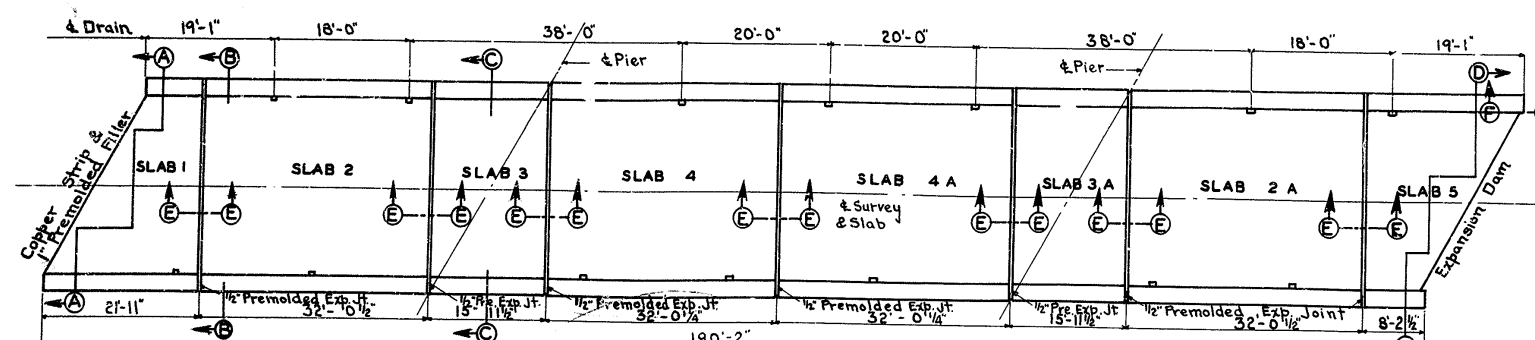
FILLS UNDER BEAMS

FILLS UNDER BEAMS

SH. 5 OF 9
WORK SHEETS 4 & 5 TOGETHER

NOTE: All dimensions on steel are based on a temperature of 60° Fahrenheit.
FOUNDRY NOTE: CAST STEEL: Cast two coupons on one piece from each heat, 1 1/2" x 1/2" to make tensile tests as per A.S.T.M. Specifications A27-36T, Grade B-2. Stamp test coupon with all castings with proper heat numbers, using #2 steel stencil. Coupons to be located so as not to interfere with machining of casting. Coupons to be removed by Department's shop inspector and forwarded to the Department's laboratory for testing. Clip surface of casting smooth where coupon is detached.

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY - F
LAUREL
EAST BERNSTADT - BOND
ROAD
STATION 264 +14 PROJECT NO. 7933



SECTION D-D

BILL AND TYPES OF REINFORCEMENT FOR ENTIRE SPAN

MINOR TYPE NO.	SIZE	LENGTH FT. IN.	LOCATION	a			b			MINOR TYPE NO.	SIZE	LENGTH FT. IN.	LOCATION	a			b			MINOR TYPE NO.	SIZE	LENGTH FT. IN.	LOCATION	a			b																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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B ①	190	1/4	6 1	Curbs						E20	②	182	1/4	17 1	Slab 3&3A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

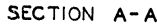
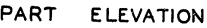
ESTIMATE OF QUANTITIES
Concrete, Class A 1433 Cu. Yds.
Reinforcement 31,970 Lbs.

SLAB DETAILS OF 188'-4" CONTINUOUS I-BEAM SPAN

BRIDGE OVER ROCKCASTLE RIVER SH. 6 OF 9

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
FRANKFORT
COUNTY OF
LAUREL
EAST BERNST/OT - BOND

ROAD PROJECT NO. 7323



GENERAL NOTE

SPECIFICATIONS:	Kentucky Department of Highways (1938 Standard)
CONCRETE:	Class "D" concrete to be used in Handrail.
REINFORCEMENT:	shown from face of concrete is clear distance.
BEVELS:	All edges of Handrail shall be beveled $\frac{1}{4}$ " unless otherwise noted.



SECTION D-D

SECTION E-E

HANDRAIL DETAILS OF 188'-4" CONTINUOUS SPAN

ESTIMATE OF QUANTITIES (FOR 2 RAILS)

Concrete, Class "D"	17.9	Cu. Yds.
Reinforcement	3510	Lbs.

BRIDGE OVER ROCKCASTLE RIVER SH. 7 OF 9

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF HIGHWAYS

FRANKFORT

COUNTY OF ALIBA

LAUREL

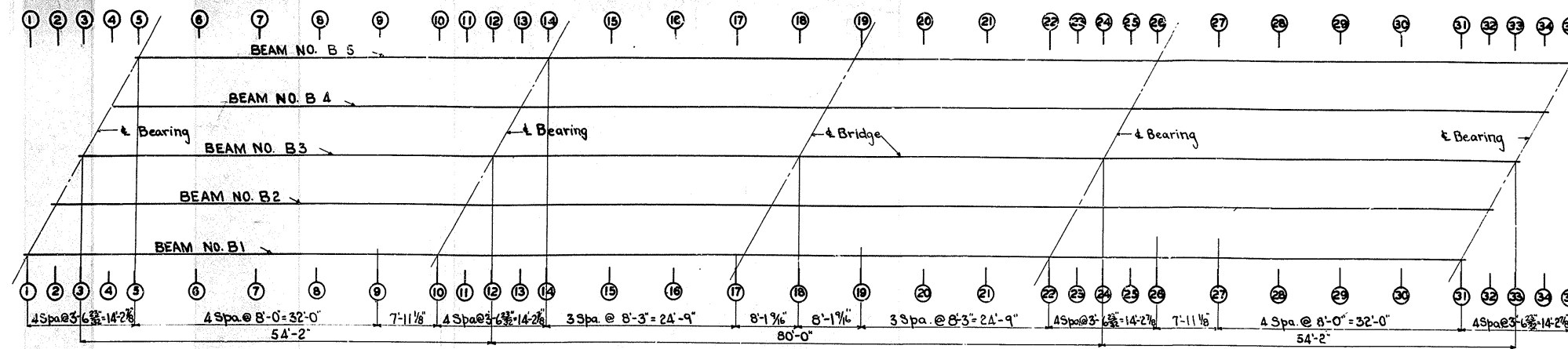
EAST BERNSTADT - BOND

ROA

STATION 264 + 14

PROJECT NO.

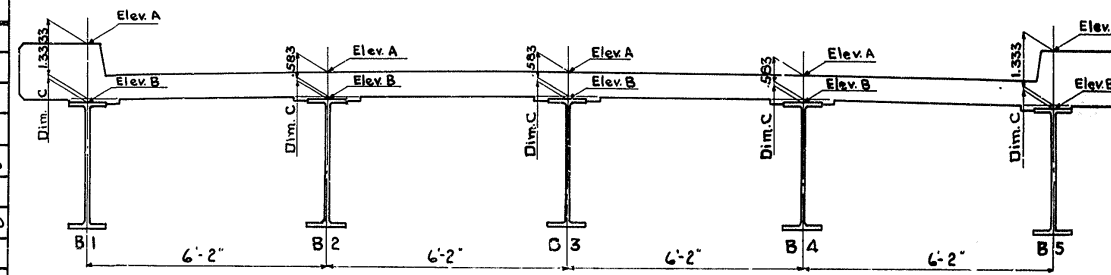
No. 7333



PLAN

TABLE OF ELEVATIONS A AND B, DIMENSIONS C, AND DEFLECTIONS FOR EACH BEAM

SECTION	BEAM NO. B1				BEAM NO. B2				BEAM NO. B3				BEAM NO. B4				BEAM NO. B5			
	ELEV. A	ELEV. B	DIM. C	DEF.	ELEV. A	ELEV. B	DIM. C	DEF.	ELEV. A	ELEV. B	DIM. C	DEF.	ELEV. A	ELEV. B	DIM. C	DEF.	ELEV. A	ELEV. B	DIM. C	DEF.
1-1	1147.590			0.000																
2-2	1147.602			-0.003	1146.940			0.000												
3-3	1147.614			-0.005	1146.953			-0.003	1146.984			0.000								
4-4	1147.625			-0.007	1146.964			-0.005	1146.996			-0.003	1146.959			0.000				
5-5	1147.635			-0.008	1146.975			-0.007	1147.007			-0.005	1146.971			-0.003	1147.627			0.000
6-6	1147.657			-0.009	1146.998			-0.009	1147.032			-0.009	1146.997			-0.007	1147.654			-0.006
7-7	1147.676			-0.007	1147.018			-0.008	1147.053			-0.009	1147.019			-0.009	1147.678			-0.009
8-8	1147.692			-0.002	1147.035			-0.004	1147.071			-0.006	1147.039			-0.008	1147.699			-0.009
9-9	1147.710			+0.001	1147.052			+0.000	1147.088			-0.002	1147.056			-0.004	1147.717			-0.006
10-10	1147.731			0.000	1147.071			+0.001	1147.105			+0.001	1147.072			+0.000	1147.732			-0.001
11-11	1147.744			-0.003	1147.082			-0.000	1147.115			+0.001	1147.081			+0.001	1147.741			+0.000
12-12	1147.758			-0.008	1147.095			-0.003	1147.125			0.000	1147.090			+0.001	1147.749			+0.001
13-13	1147.773			-0.014	1147.108			-0.008	1147.137			-0.003	1147.100			-0.000	1147.759			+0.001
14-14	1147.788			-0.020	1147.123			-0.014	1147.151			-0.008	1147.113			-0.003	1147.768			0.000
15-15	1147.824			-0.034	1147.159			-0.028	1147.187			-0.022	1147.147			-0.016	1147.800			-0.010
16-16	1147.855			-0.044	1147.193			-0.040	1147.221			-0.035	1147.182			-0.030	1147.835			-0.024
17-17	1147.881			-0.048	1147.222			-0.047	1147.253			-0.045	1147.216			-0.042	1147.870			-0.037
18-18	1147.900			-0.046	1147.243			-0.048	1147.277			-0.048	1147.243			-0.048	1147.900			-0.046
19-19	1147.912			-0.037	1147.258			-0.042	1147.295			-0.045	1147.264			-0.047	1147.923			-0.048
20-20	1147.921			-0.024	1147.268			-0.030	1147.307			-0.035	1147.279			-0.040	1147.941			-0.044
21-21	1147.928			-0.010	1147.275			-0.016	1147.315			-0.022	1147.287			-0.028	1147.952			-0.034
22-22	1147.940			0.000	1147.285			-0.003	1147.323			-0.008	1147.295			-0.014	1147.960			-0.020
23-23	1147.947			+0.001	1147.290			0.000	1147.327			-0.003	1147.298			-0.008	1147.963			-0.014
24-24	1147.956			+0.001	1147.298			+0.001	1147.333			0.000	1147.303			-0.003	1147.966			-0.008
25-25	1147.968			+0.000	1147.308			+0.001	1147.342			+0.001	1147.309			0.000	1147.971			-0.003
26-26	1147.978			-0.001	1147.318			+0.000	1147.351			+0.001	1147.317			+0.001	1147.977			0.000
27-27	1148.004			-0.006	1147.343			-0.004	1147.375			-0.002	1147.339			+0.000	1147.997			+0.001
28-28	1148.028			-0.009	1147.368			-0.008	1147.400			-0.006	1147.364			-0.004	1148.021			-0.002
29-29	1148.048			-0.009	1147.389			-0.009	1147.423			-0.009	1147.388			-0.008	1148.046			-0.007
30-30	1148.066			-0.006	1147.409			-0.007	1147.444			-0.009	1147.410			-0.009	1148.069			-0.009
31-31	1148.081			0.000	1147.425			-0.003	1147.461			-0.005	1147.429			-0.007	1148.089			-0.008
32-32					1147.431			0.000	1147.468			-0.003	1147.436			-0.005	1148.097			-0.007
33-33									1147.475			0.000	1147.444			-0.003	1148.105			-0.005
34-34													1147.450			0.000	1148.112			-0.003
35-35																	1148.118			0.000

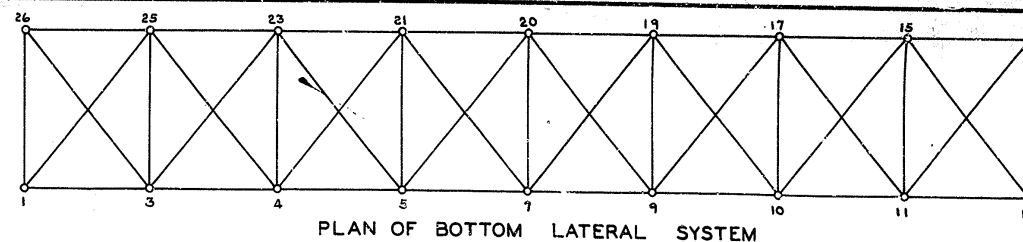
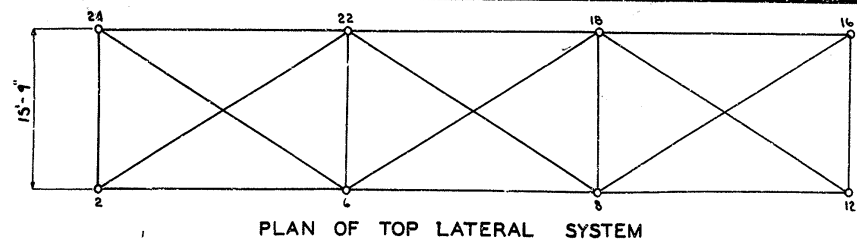


CONSTRUCTION NOTE:

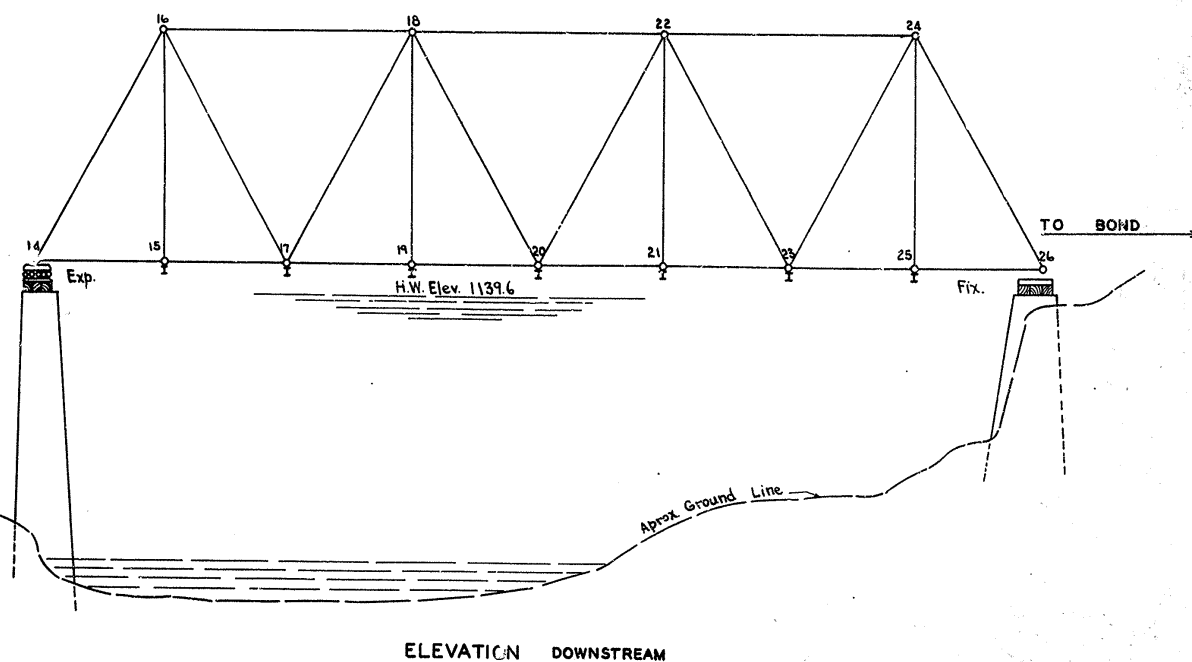
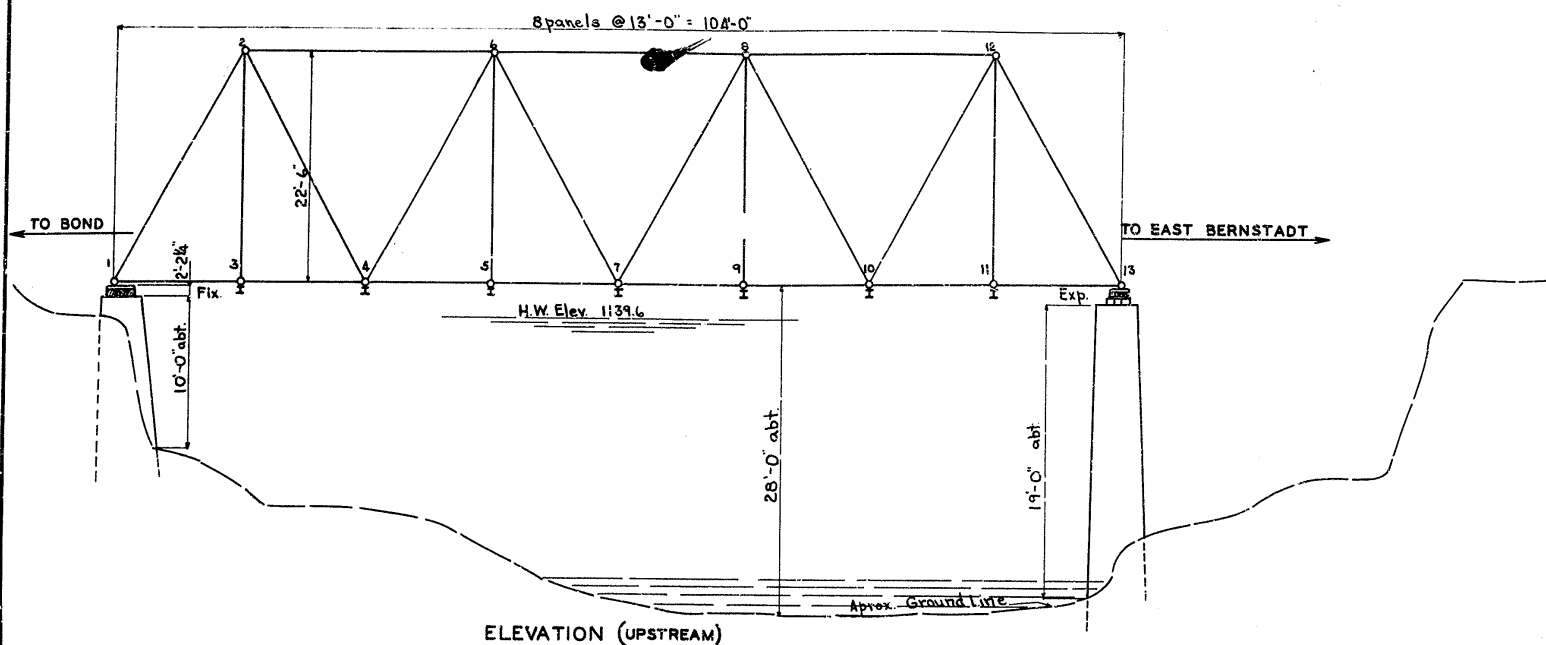
- Layout sections 1-1 to 35-35 as shown.
- Read elevations on top of beams as erected after bracing is in place and with falsework removed but before any load is applied. (Elevation B) Fill in table with Elev. B.
- Compute dimension "C" as indicated.
- Always measure from top of beam to top of slab for setting templates [Dim. C + 7(1.565) for beams 2-3-4] and [Dim. C + 14(1.333) for beams 1 & 5].

Deflections shown are calculated deflections of beams under weight of floor slab only. Deflections are given in decimals of a foot. Signs (+) indicates movement is upwards, (-) indicates movement is downward. These deflections are given for information only. No change in camber shown shall be made on construction unless approved by the Department of Highways.

Elevations "A" include the calculated deflections of the steel beams due to weight of the floor slab.



REV.	DATE	BY	CHKD.	APP'D.	NO.	SHEET	TOTAL
1	10/1/58	J.C.C.	R.F.D.		7	9	9



MATCH MARKING DIAGRAM OF EXISTING BRIDGE

NOTE:
Existing bridge to be removed before new structure is started.
Members of existing bridge are to have match marked painted on them by the contractor before removal with red lead paint in accordance with this plan.
All superstructure & substructure to be removed to at least one foot below the natural ground line.
The sketch of the existing bridge shown hereon is for the general information of the contractor and is not intended to show in detail the structure to be removed.
Each bidder should inspect the existing bridge and satisfy himself as to its character, quantity, and nature of the work to be done in removal of the existing bridge.

BRIDGE OVER ROCKCASTLE RIVER		SH. 9 OF 9
COMMONWEALTH OF KENTUCKY		
DEPARTMENT OF HIGHWAYS		
FRANKFORT		
COUNTY OF		
LAUREL		
EAST BERNSTADT - BOND		
ROAD		
STATION 284 + 14	PROJECT NO.	
7333		