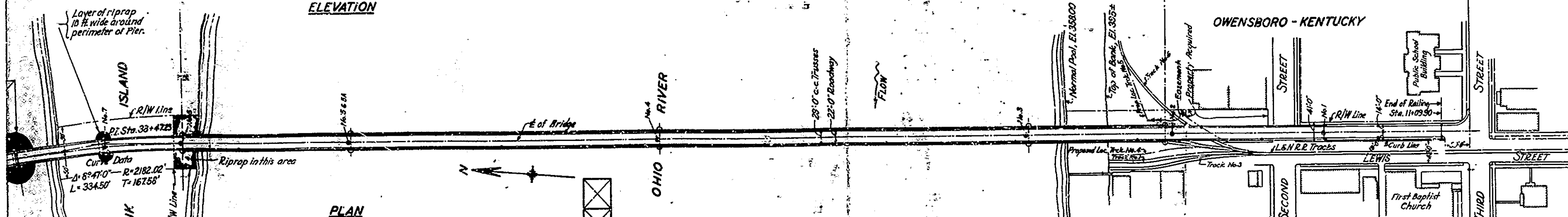
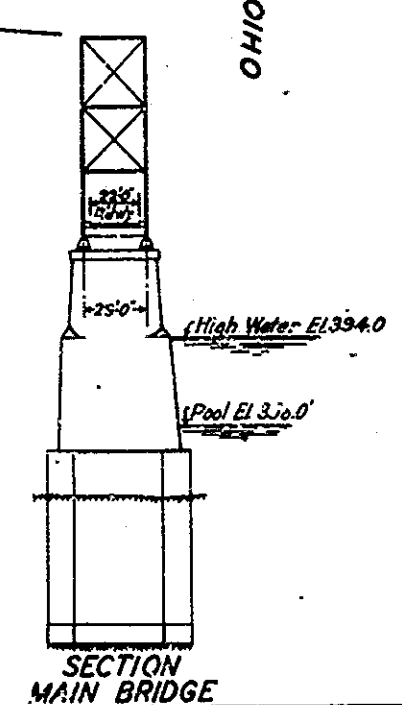
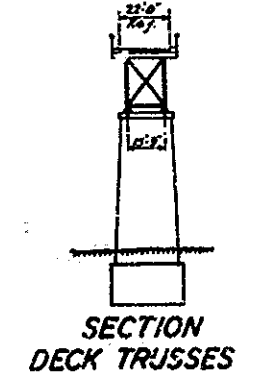
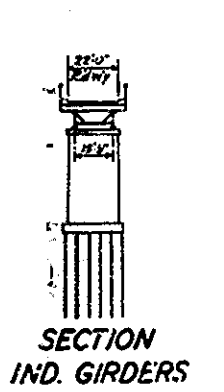


**ELEVATION**

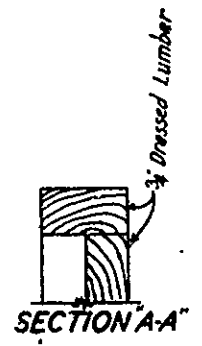


**PLAN**

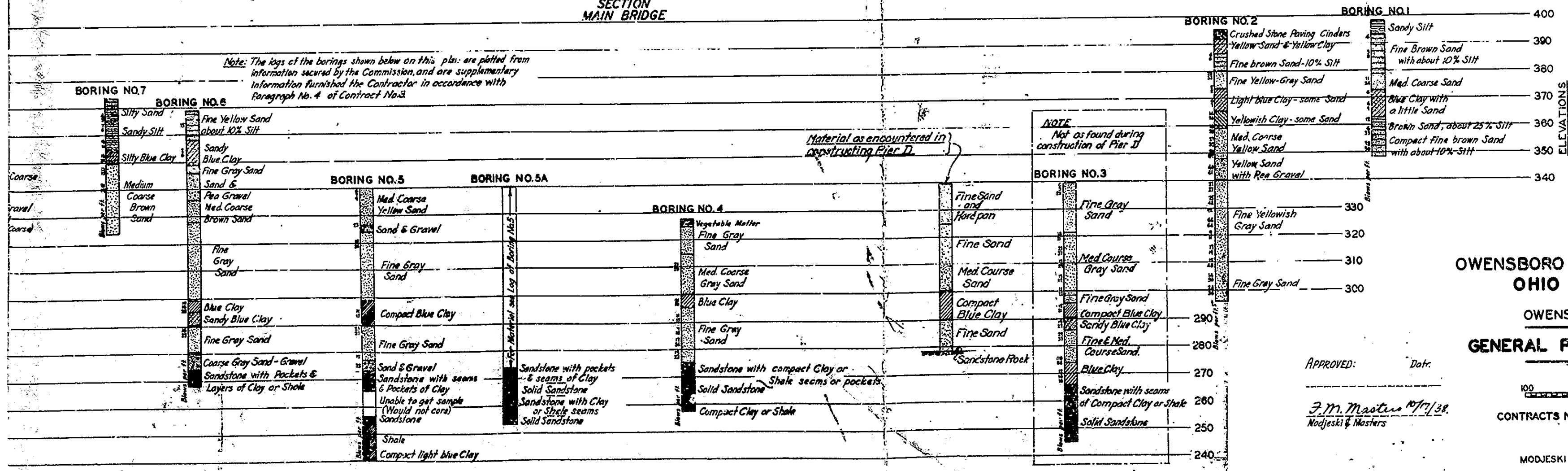


**P.W.A.**  
**FEDERAL EMERGENCY**  
**ADMINISTRATION OF PUBLIC WORKS**  
**OHIO RIVER BRIDGE**  
**PROJECT NO. 6542-F**

**P.W.A. SIGN**  
 (5 Required - Contract No. 3 & No. 4 each)



Note: The logs of the borings shown below on this plan are plotted from information secured by the Commission, and are supplementary information furnished the Contractor in accordance with Paragraph No. 4 of Contract No. 3.



**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
**AT**  
**OWENSBORO, KENTUCKY**  
**GENERAL PLAN & ELEVATION**

APPROVED: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 J.M. Masters M/T/38  
 Modjeski & Masters

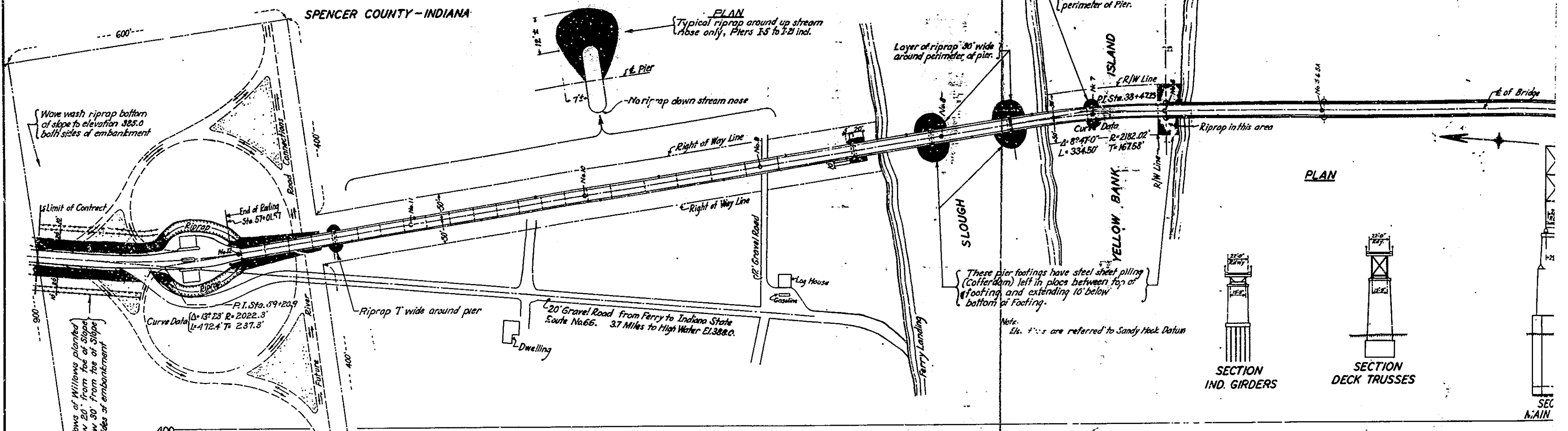
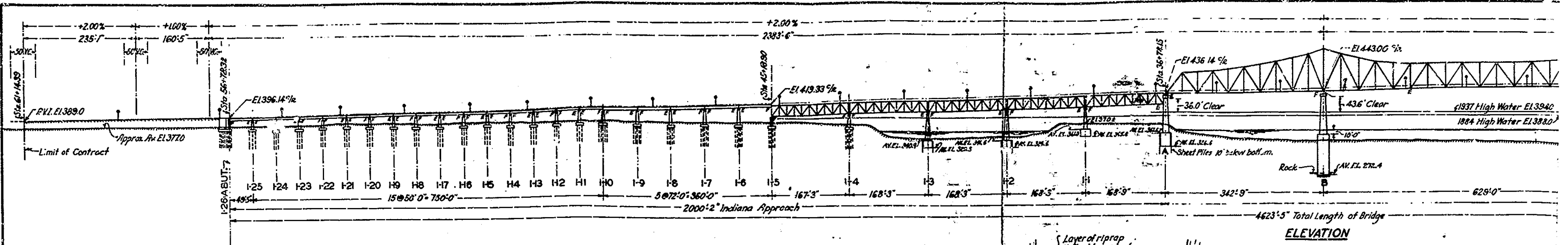
SCALE IN FEET  
 0 100 200  
 CONTRACTS NO. 3 & 4 DRAWING NO. 1  
 OCT. 1938  
 MODJESKI & MASTERS - ENGINEERS

THIS DRWG. REVISED SEPT. 1940  
 TO SHOW THE WORK  
**AS CONSTRUCTED**

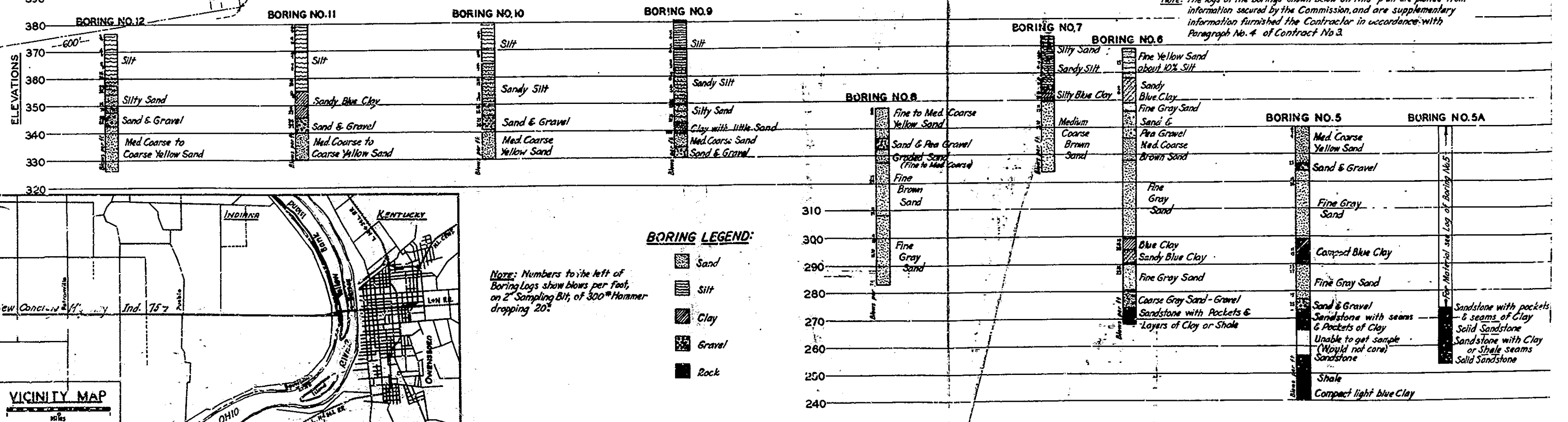
Rev. Oct. 27, 1938 - M.C.  
 Nov. 21, 1939 - H.J.E.  
 Dec. 27, 1941 - M.C.

**3A**





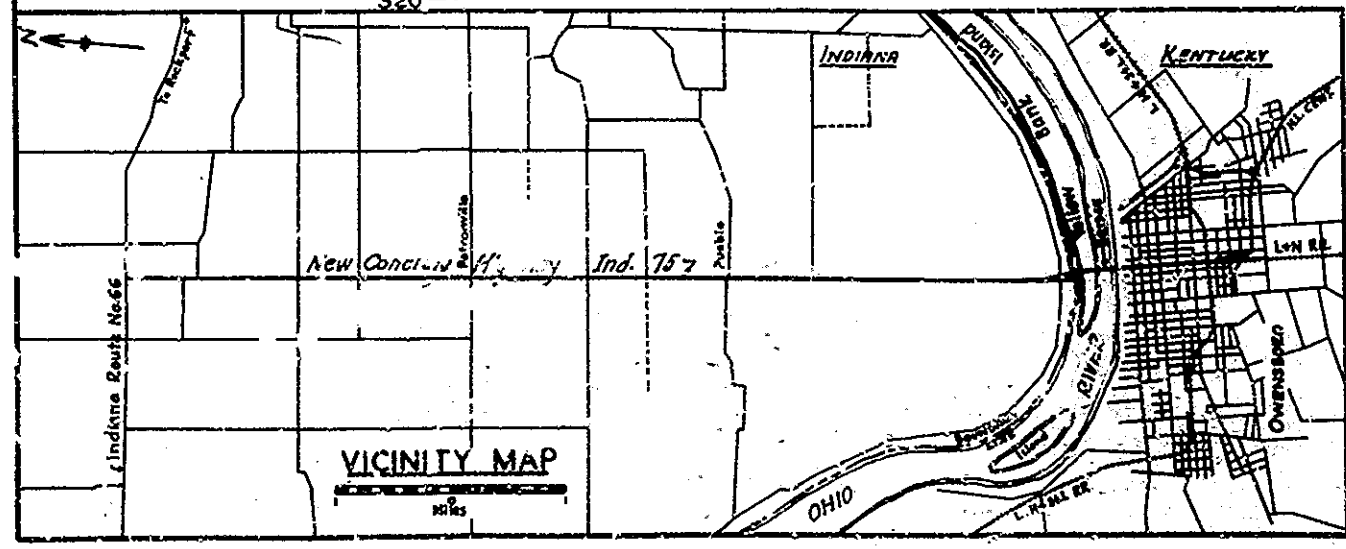
Note: The logs of the borings shown below on this plan are plotted from information secured by the Commission, and are supplementary information furnished the Contractor in accordance with Paragraph No. 4 of Contract No. 3.



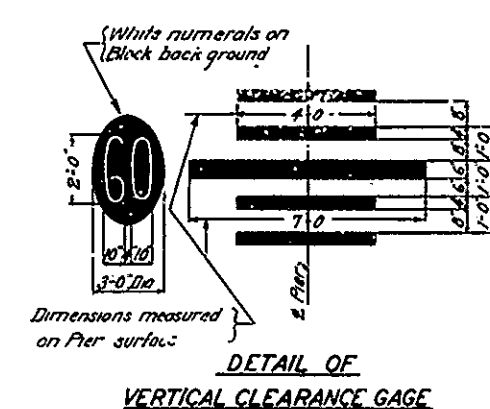
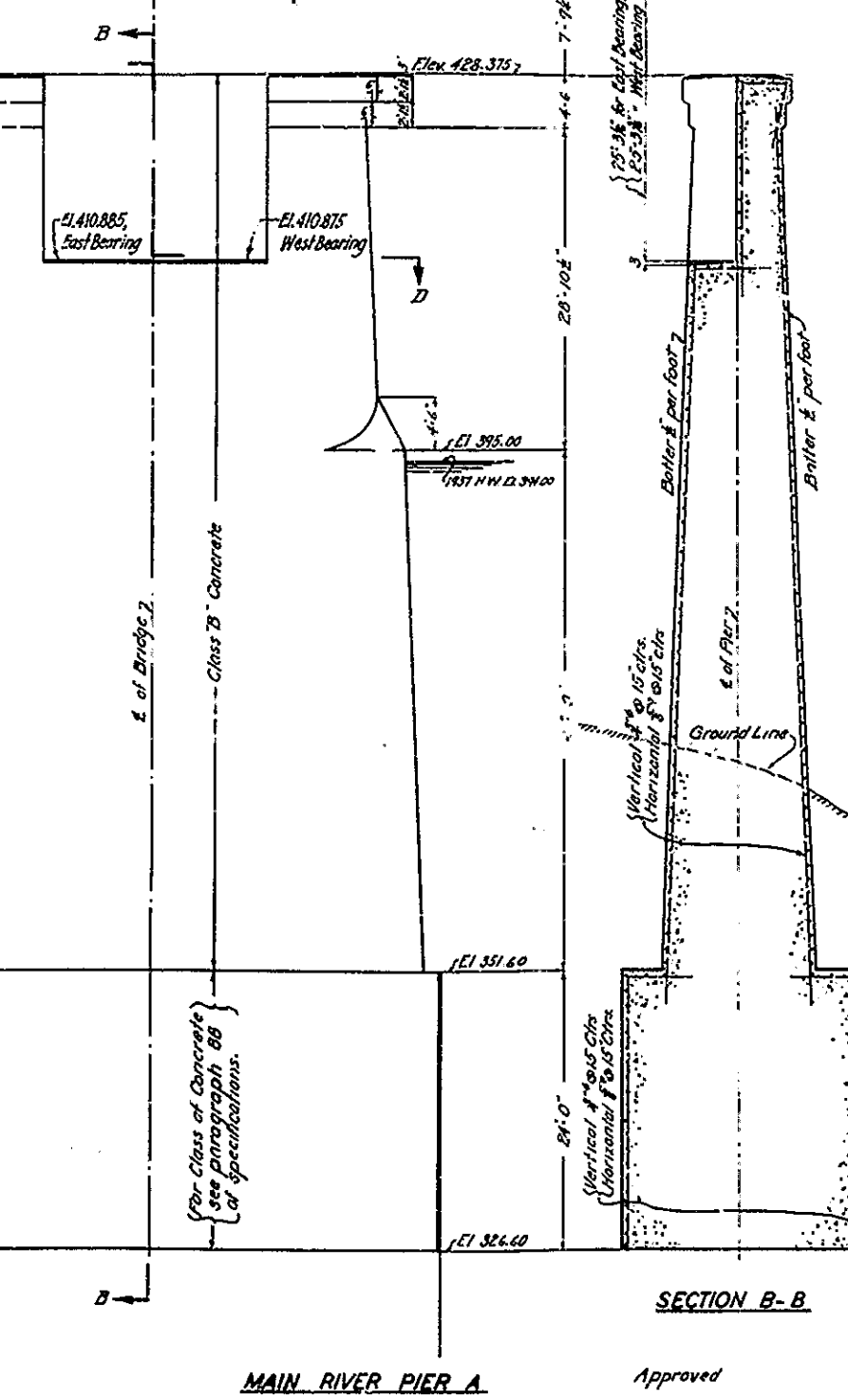
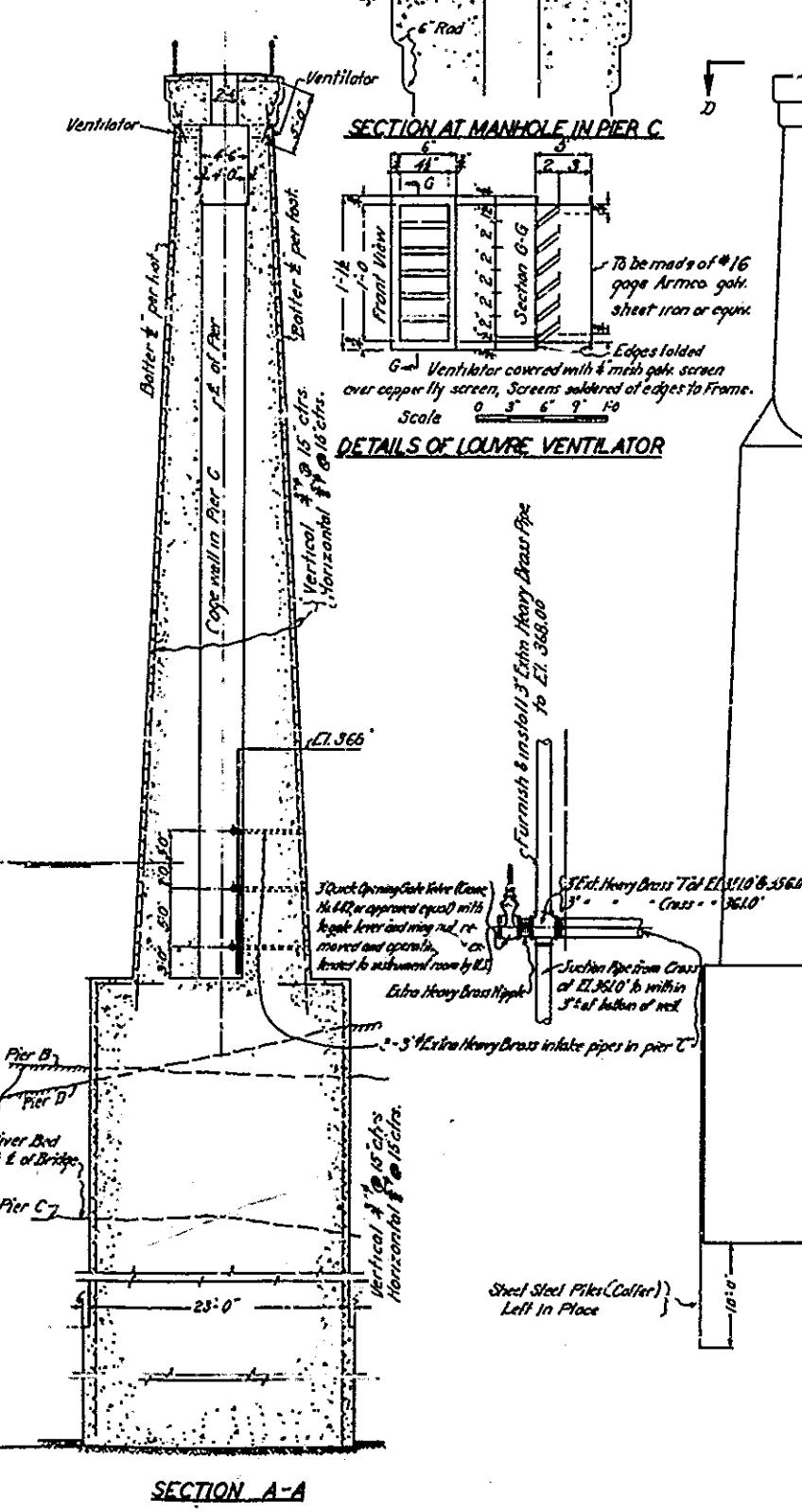
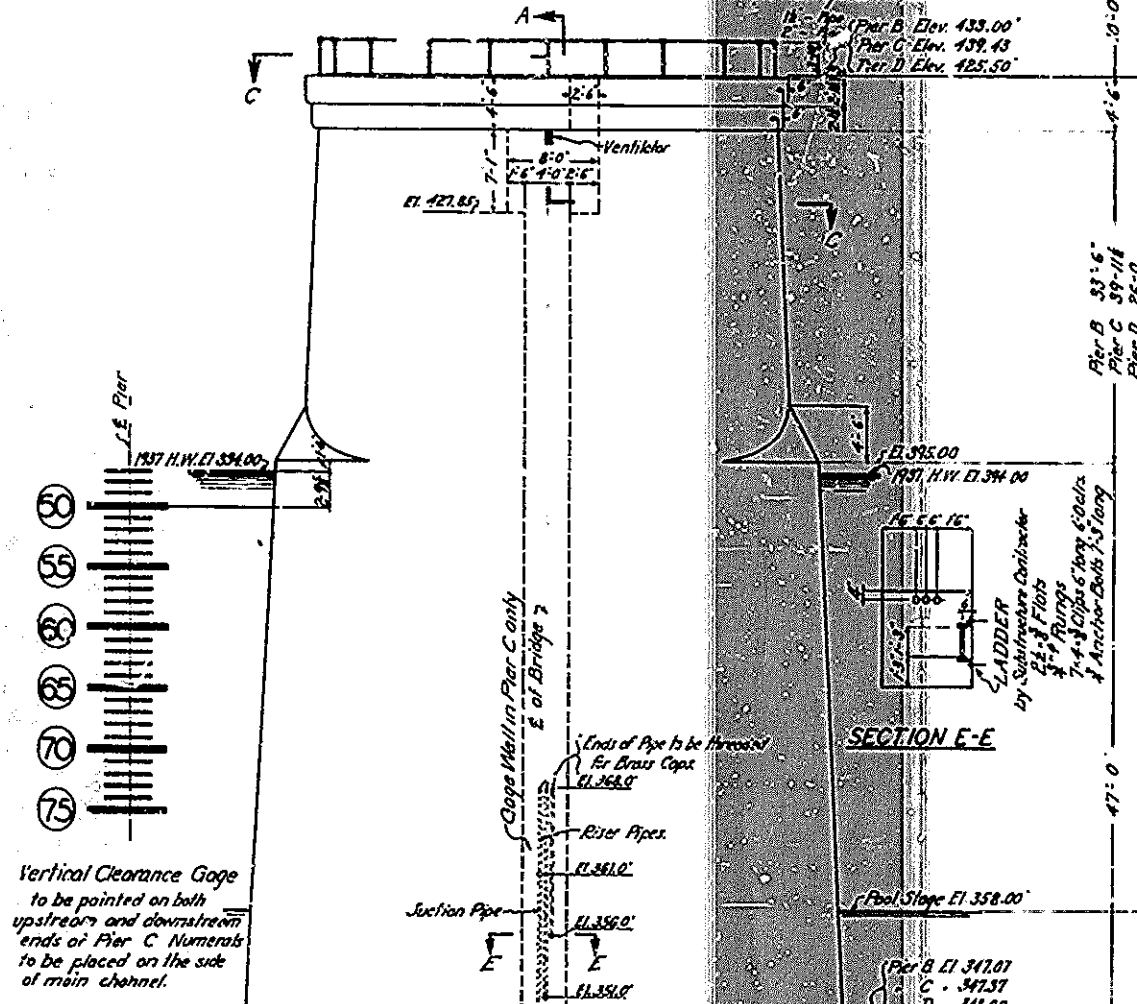
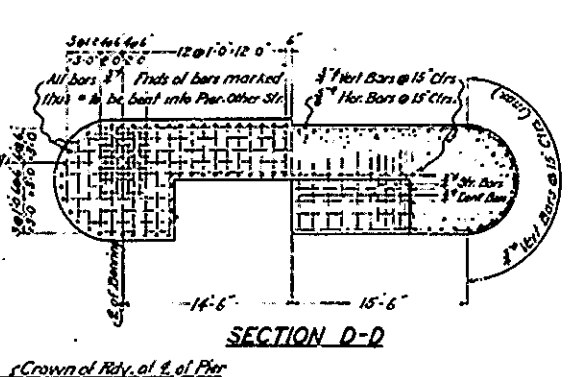
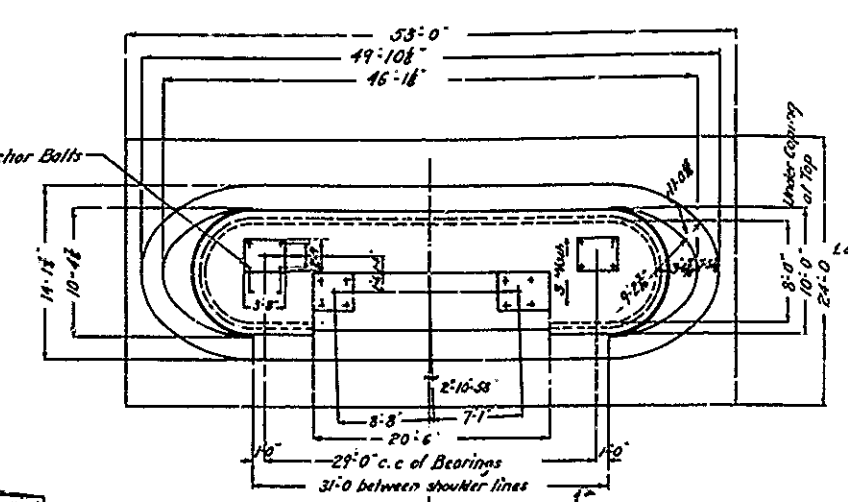
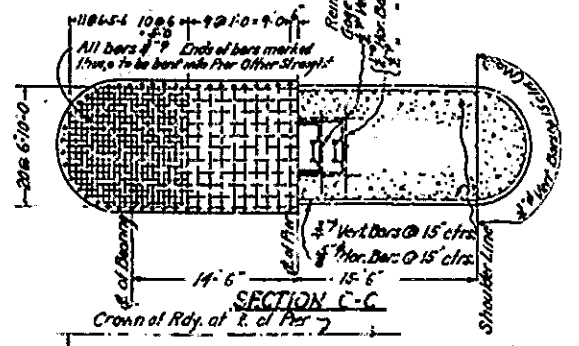
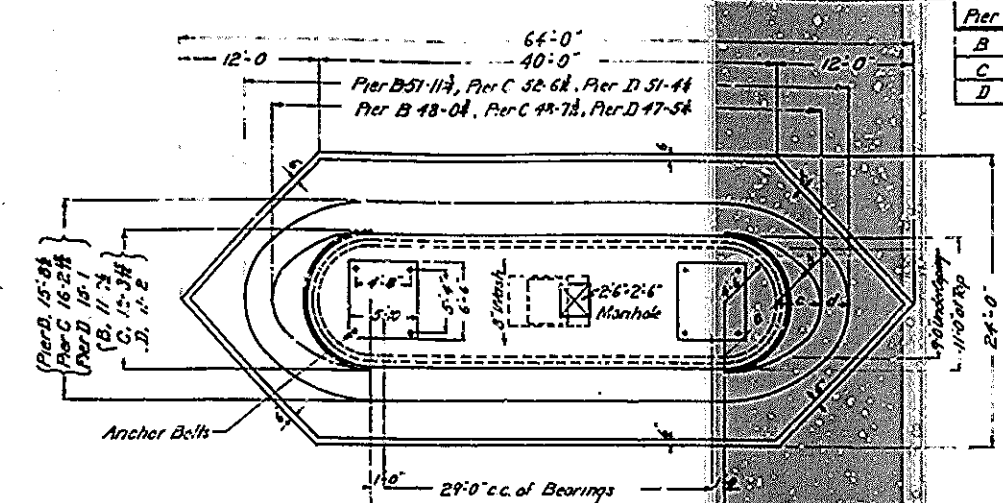
**BORING LEGEND:**

- Sand
- Silt
- Clay
- Gravel
- Rock

Note: Numbers to the left of Boring Logs show blows per foot, on 2" Sampling Bit, of 300# Hammer dropping 20".



Pier	Radius	a	b	c	d
B	10-4 1/2	12-4 1/2	4-0 1/2	5-11 1/2	
C	10-7 1/2	12-7 1/2	4-3 1/2	6-3 1/2	
D	10-7	12-0 1/2	3-8 1/2	5-8 1/2	



**NOTES**

All anchor bolts to be furnished by superstructure contractor and set by substructure contractor. Top of piers of bridge seat to be dressed to true elevation.

All construction joints to be adequately keyed.

All reinforcing bars to be deformed type and lapped 40 diameters of splices. Minimum clear distance from steel to face of concrete to be 3" unless otherwise shown.

Concrete in Girder/Beams of Pier B, C, & D under Item 5 Concrete in Footings of Pier A under Item 6 Concrete in Pier shaft of Pier A under Item 7 Concrete in Pier shaft of Pier B under Item 8 All reinforcing steel included. Setting plan of Anchor bolts to be furnished by Superstructure contractor.

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**MAIN RIVER PIERS A, B, C, & D.**

SCALE: IN - FEET UNLESS OTHERWISE NOTED  
 0 5 10 15 20 25 30

CONTRACT NO. 3 DRAWING NO. 2

OCT. 1938.

MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED

Table of Kentucky Pier Dimensions

Pier	Station	Elev. Top of Abutment	Height of Pier	Amount of Footing	Elev. Top of Footing	Approx. Elev. of Ground
K1E	16+19.48	392.00	4'-6"	15'	393.50	395.7
K1W	16+38.48	392.00	7'-0"	25'	391.00	395.7
K2E	15+63.53	392.00	4'-6"	15'	393.50	395.8
K2W	15+43.90	392.00	6'-6"	25'	391.50	395.8
K3E	15+17.48	392.00	5'-0"	2'	392.66	395.9
K3W	15+17.48	392.00	6'-7"	25'	391.76	395.9
K4E	14+72.48	392.00	4'-6"	15'	393.50	396.0
K4W	14+72.48	392.00	6'-0"	18'	392.00	395.9
K5E	14+01.48	392.00	4'-0"	15'	394.00	397.0
K5W	14+01.48	392.00	4'-0"	15'	394.00	396.0

Pier numbers followed by letter 'E' or 'W' indicate the location on the East or West side of the center line of bridge respectively.

Footings of K3E and K3W are already in place, with dowels projecting from footing.

KENTUCKY APPROACH PIERS K1 TO K5 INCLUSIVE

- NOTES:
- All anchor bolts to be furnished by superstructure contractor and set by substructure contractor.
  - Top of piers of bridge seat to be dressed to true elevation.
  - All construction joints to be adequately keyed.
  - All reinforcing to be deformed type and lapped 40 diameters of splices.
  - Minimum clear distance from steel to face of concrete 1/4 in. unless otherwise shown.
  - All reinforcing steel included under Item 15.
  - Setting plan of anchor bolts to be furnished by superstructure contractor.
  - Material for wrought-iron guard to conform to A.S.T.M. Serial Designation 741-35.

OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY  
PIERS E-1, I-2, I-3 & K1 TO K5 INCLUSIVE

SCALE IN FEET EXCEPT AS NOTED

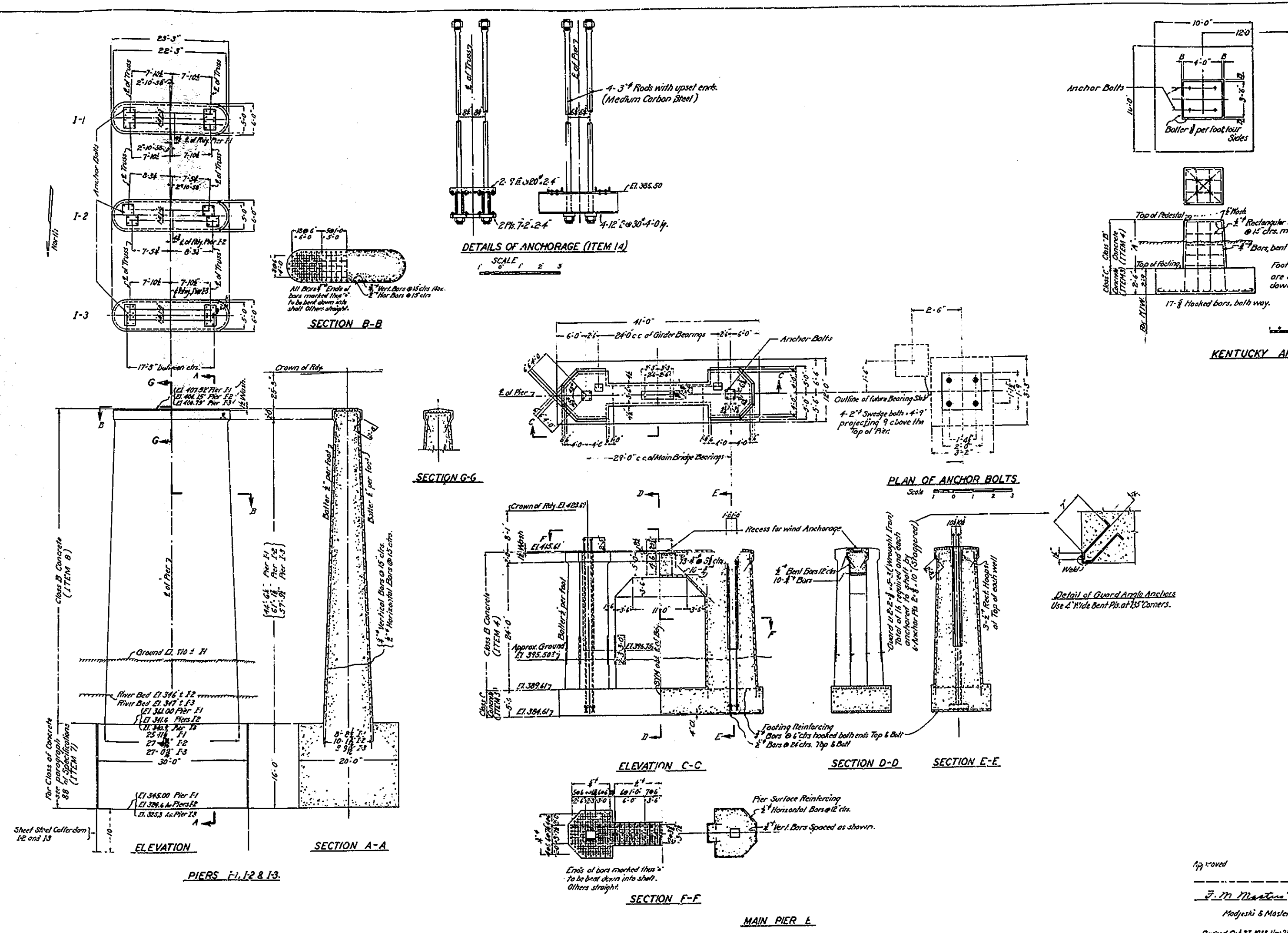
CONTRACT NO. 3 DRAWING NO. 3

OCT. 1938

MODJESKI & MASTERS - ENGINEERS.

THIS DRAWING REVISED SEPT. 1940 TO SHOW THE WORK AS CONSTRUCTED

5



PIERS I-1, I-2 & I-3

MAIN PIER E

Approved

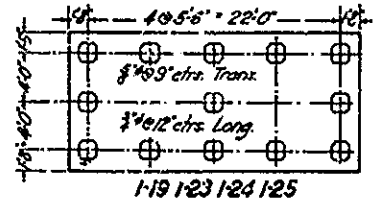
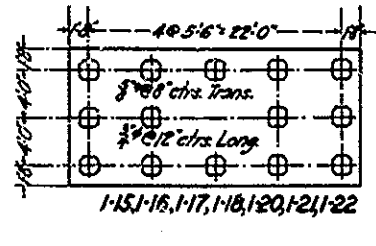
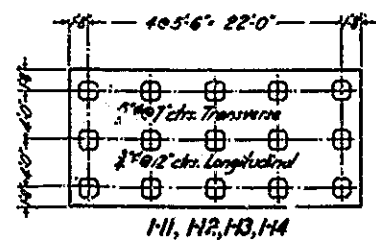
J. M. Masterson 10/1/38

Modjeski & Masters

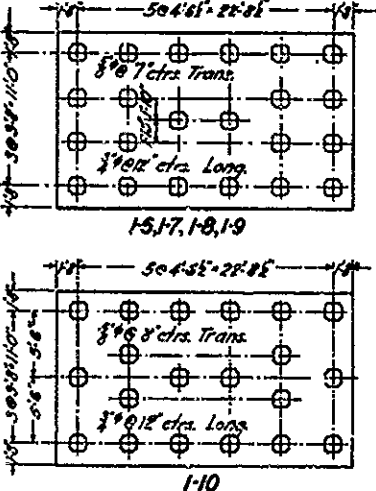
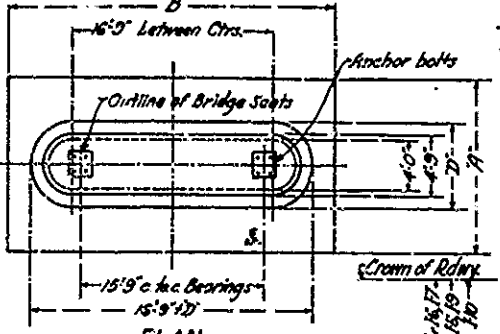
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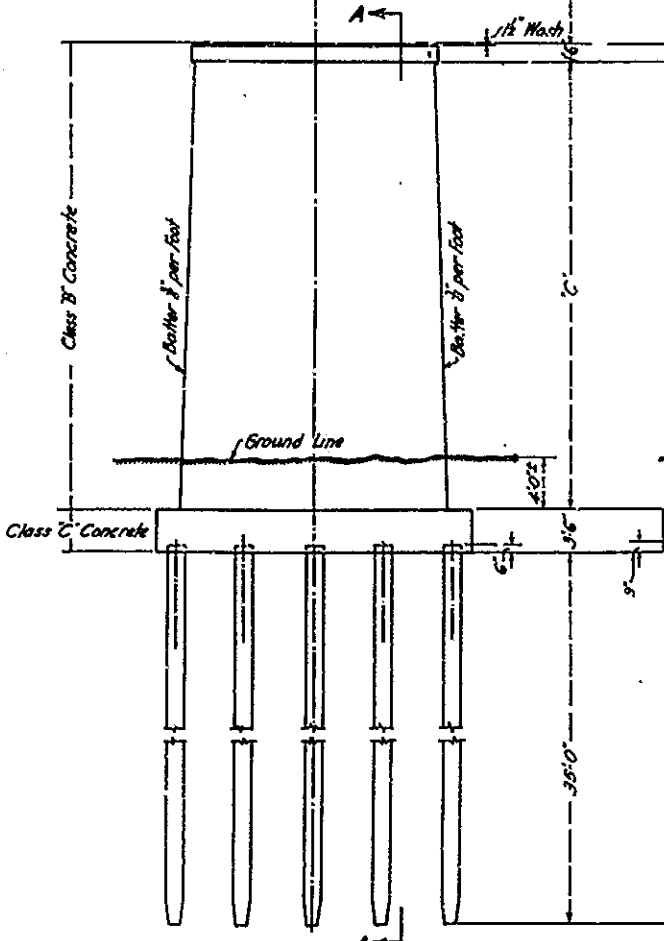
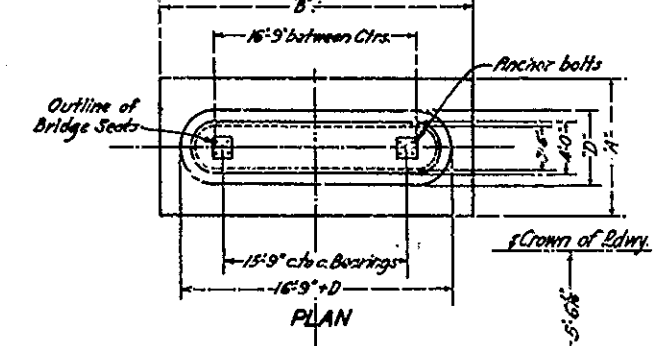
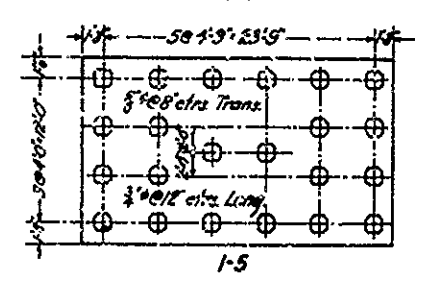
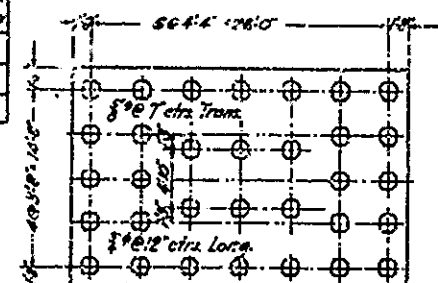
Pier	Elev. Top of Pier	A	B	C	D	D+1/2'S	Elev. Top of Footing	Approx. Elev. of Ground Line
P11	402.62	11'-4"	25'-4"	28'-2"	5'-8"	22'-0"	375.5	379.4
P12	404.62	-	26'-2"	5'-2"	21'-11"	376.5	380.6	
P13	403.62	-	25'-2"	5'-8"	21'-0"	-	380.8	
P14	402.62	-	26'-2"	5'-8"	21'-9"	-	-	
P15	401.62	-	25'-2"	4'-8"	21'-8"	-	380.7	
P16	400.62	-	22'-2"	4'-11"	21'-8"	-	380.5	
P17	398.62	-	22'-2"	4'-6"	21'-7"	-	310.4	
P18	396.62	-	20'-2"	4'-9"	21'-6"	-	389.3	
P19	397.62	-	19'-2"	4'-9"	21'-5"	-	380.0	
P20	396.62	-	20'-2"	4'-9"	21'-6"	-	378.0	
P21	395.62	-	-	-	-	-	373.5	377.2
P22	394.62	-	-	-	-	-	372.5	375.8
P23	393.62	-	19'-2"	4'-9"	21'-5"	-	376.4	
P24	392.62	-	18'-2"	4'-9"	21'-5"	-	376.1	
P25	391.62	-	17'-2"	4'-9"	21'-4"	-	375.9	



Pier	Elev. Top of Pier	A	B	C	D	D+1/2'S	Elev. Top of Footing	Approx. Elev. of Ground Line
P16	402.81	14'-4"	26'-0"	31'-2 1/2"	5'-11 1/2"	22'-8 1/2"	375.9	380.0
P17	403.31	-	32'-0"	6'-0"	22'-9"	375.42	377.5	
P18	404.31	-	34'-5"	6'-1 1/2"	22'-2 1/2"	370.5	374.7	
P19	404.49	-	32'-1 1/2"	6'-0"	22'-9"	-	374.6	
P10	404.00	-	29'-1 1/2"	5'-9"	22'-6 1/2"	373.0	377.0	

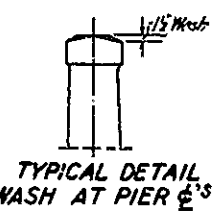


Pier	Elev. Top of Pier	A	B	C	D	D+1/2'S	Elev. Top of Footing	Approx. Elev. of Ground Line
P14	398.62	18'-0"	25'-4"	27'-5"	7'-5 1/2"	24'-6 1/2"	368.0	373.0
P15	394.00	15'-4"	27'-1"	17'-0"	6'-5"	23'-2"	375.0	379.4

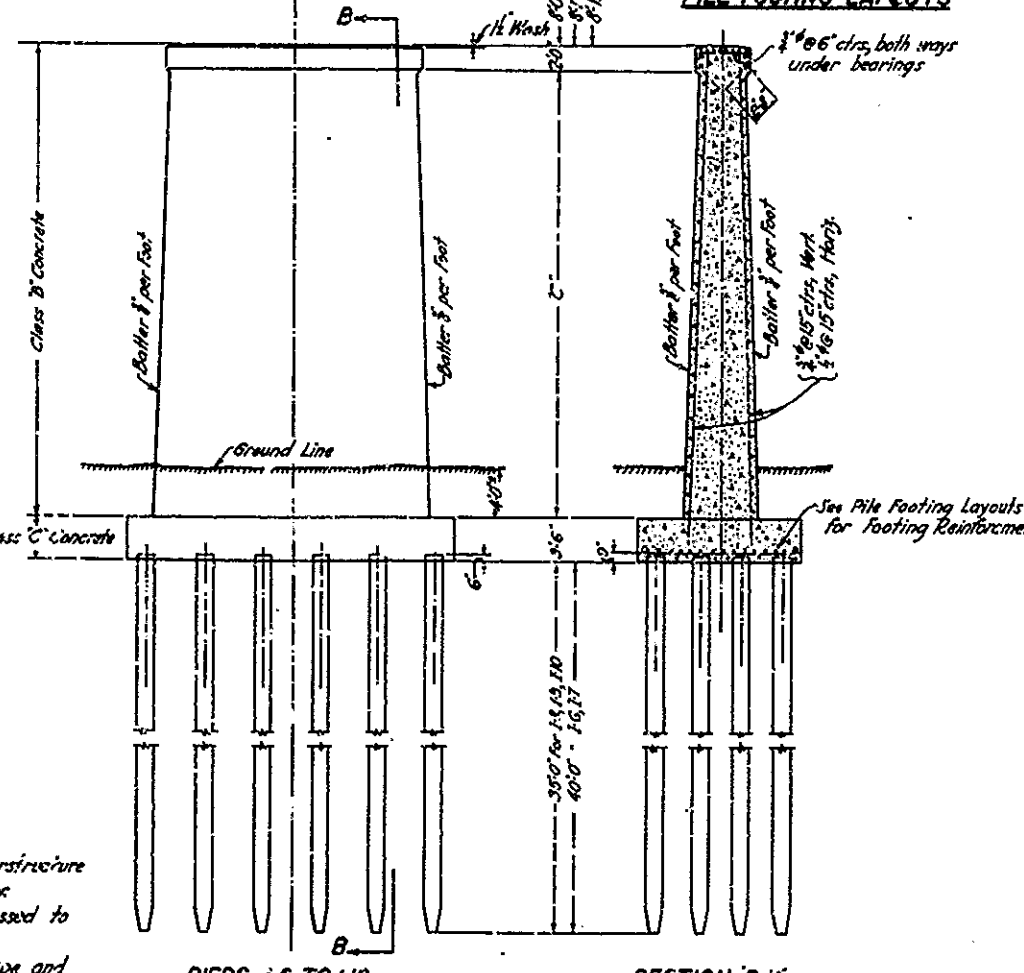


PIERS P11 TO P25 SECTION A-A

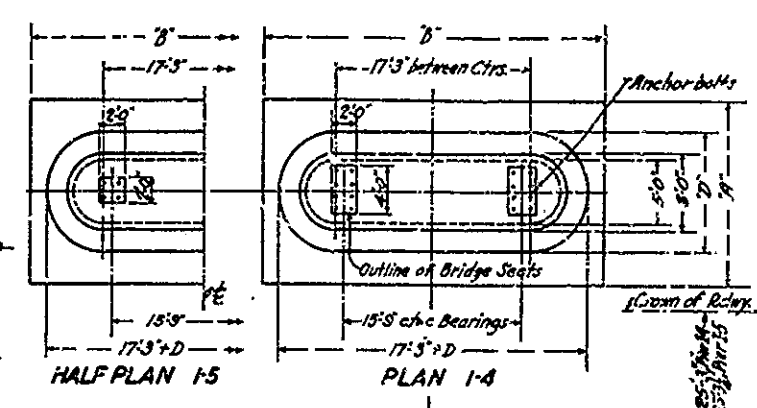
PILE FOOTING LAYOUTS



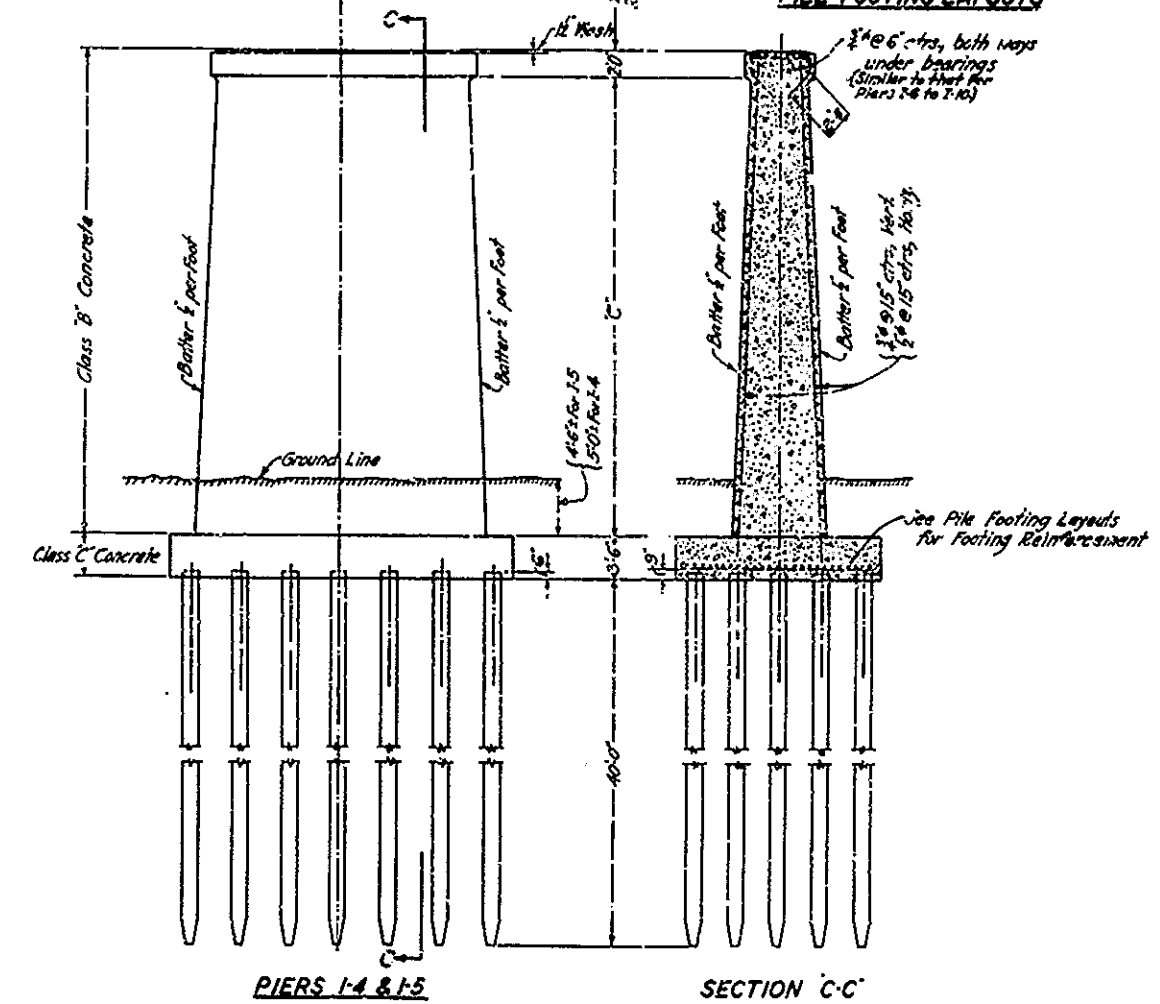
TYPICAL DETAIL WASH AT PIER



PIERS P16 TO P10 SECTION B-B

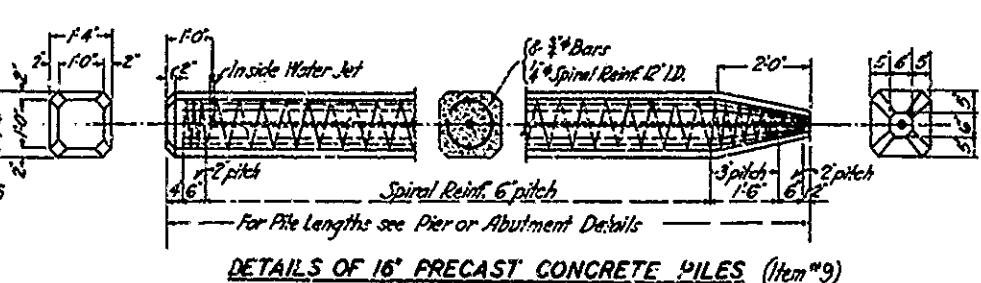


PILE FOOTING LAYOUTS



PIERS P14 & P15 SECTION C-C

**NOTES:**  
 Anchor bolts to be furnished by superstructure contractor and set by substructure contractor.  
 Tops of piers at bridge seats to be dressed to true elevation.  
 All reinforcing bars to be deformed type and lapped 40 diameters of splices.  
 All construction joints to be adequately keyed.  
 Reinforcing in approach pier footings to be hooked both ends.  
 Minimum clear distance from steel to face of concrete to be 3" unless otherwise shown.  
 Hooked bars to be detailed as shown.  
 All reinforcing steel, except that in concrete piles, under than #15 Concrete Piles - 11mm #3  
 All concrete in Footings - 11mm #10  
 All concrete in Shafts - 11mm #11  
 Setting plan of anchor bolts to be furnished by superstructure contractor.



DETAILS OF 16' PRECAST CONCRETE PILES (Item #9)

Approved: Doi  
 Modjeski & Masters

OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT  
 OWENSBORO, KENTUCKY  
 INDIANA APPROACH PIERS

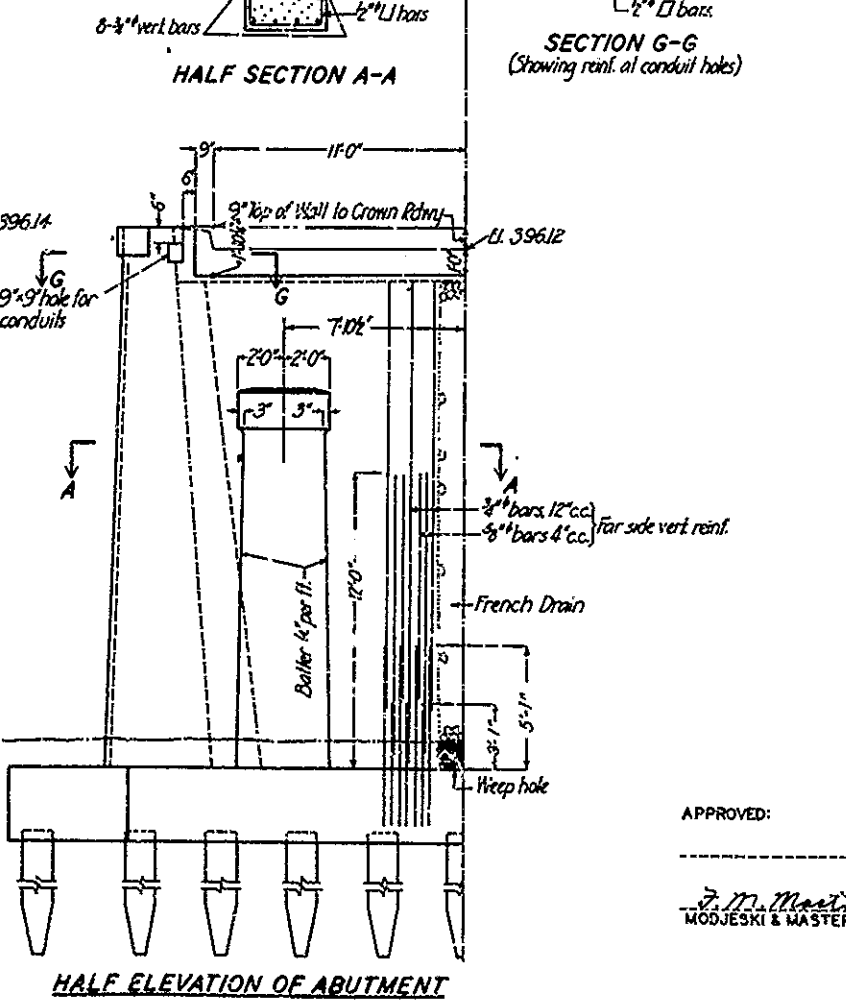
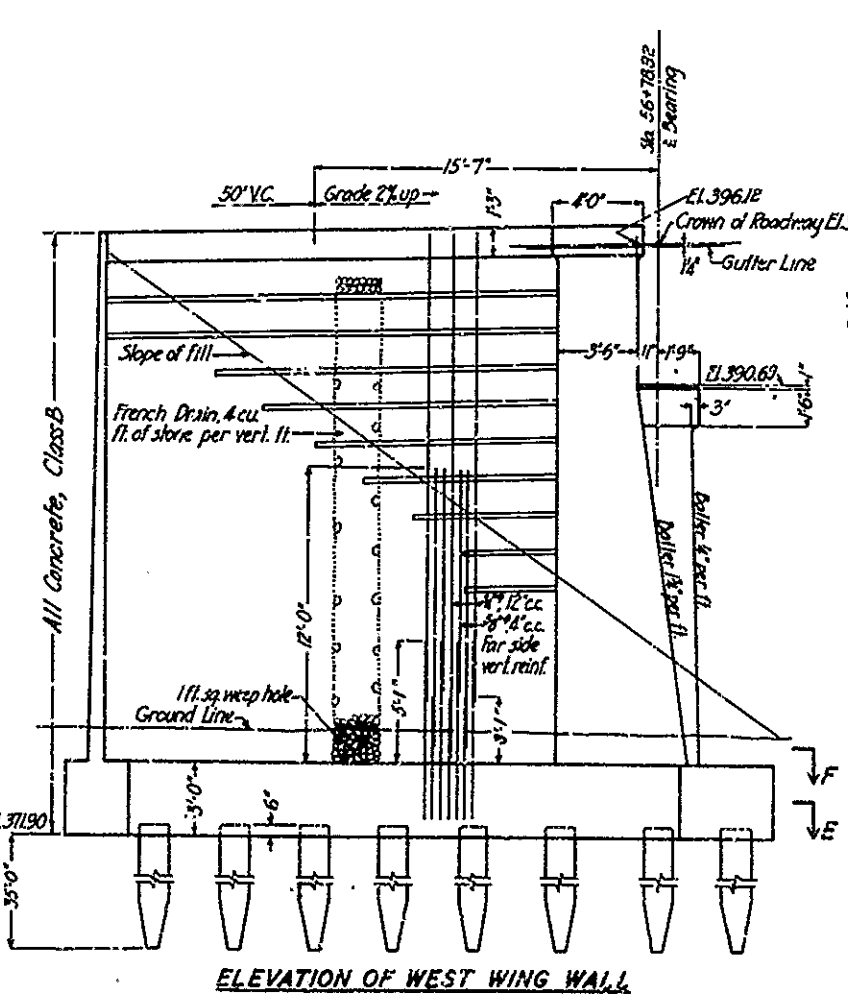
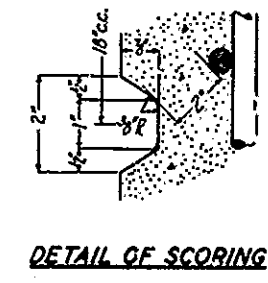
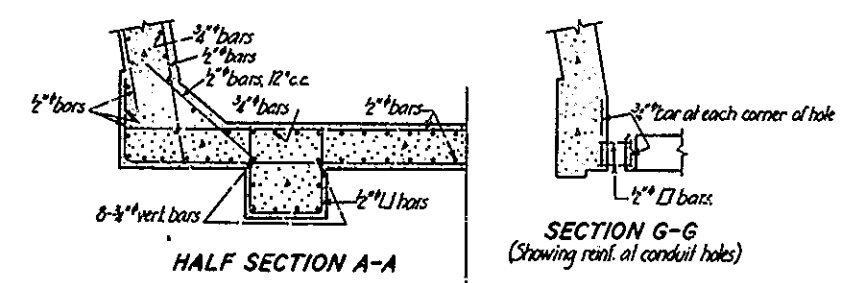
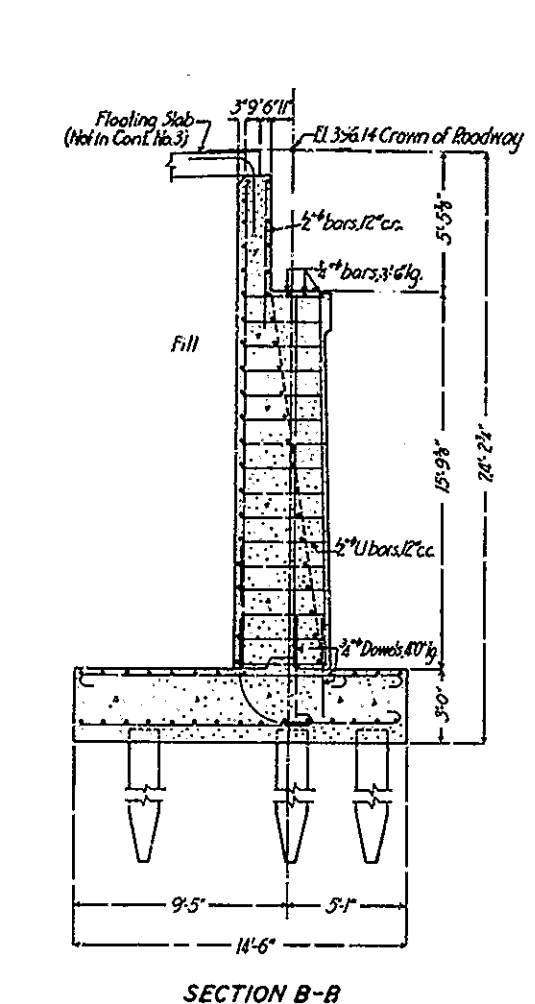
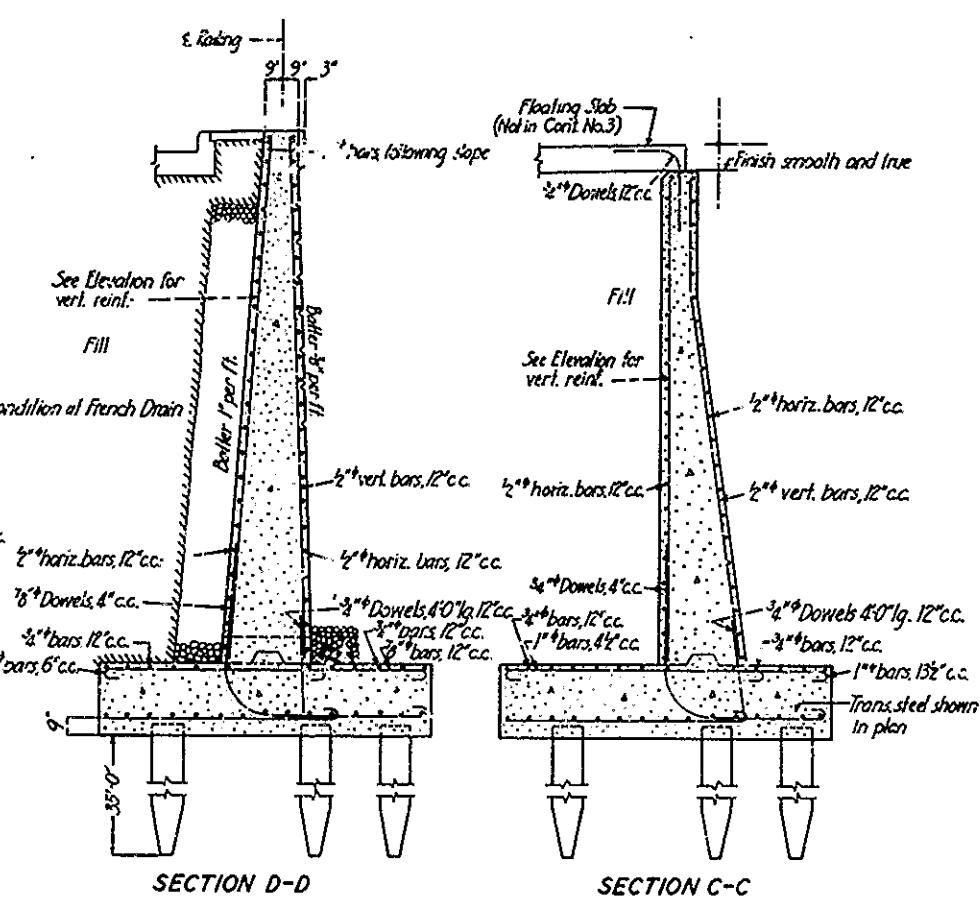
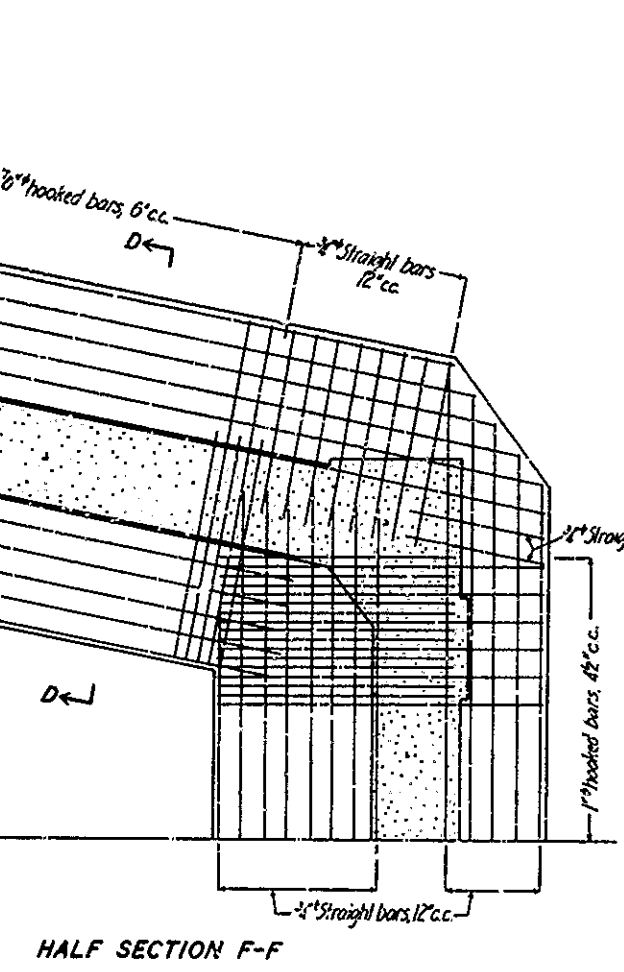
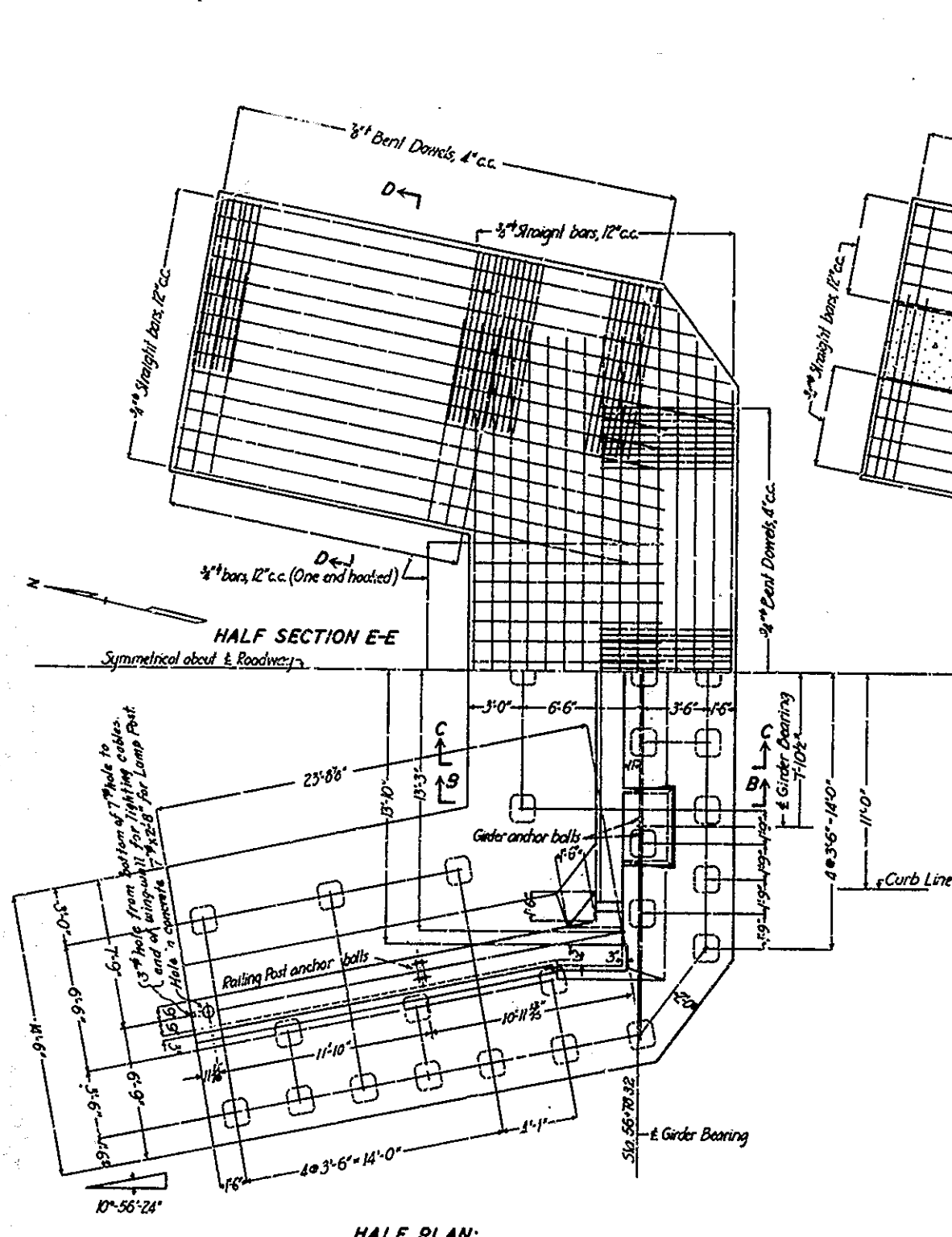
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 CONTRACT NO. 3 DRAWING NO. 4

OCT. 1938  
 MODJESKI & MASTERS - ENGINEERS

Revised: Nov. 21, 1938

THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED





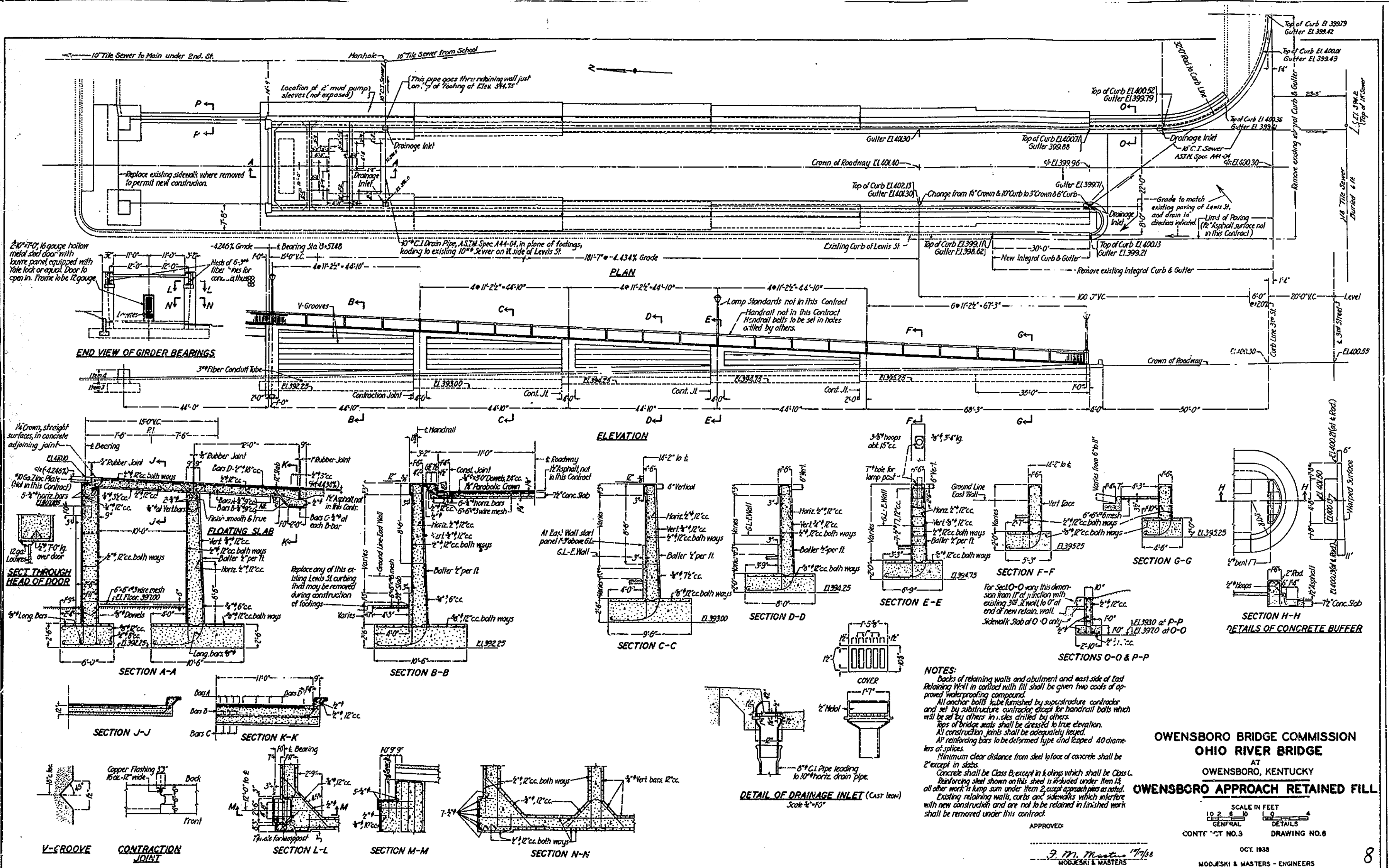
**NOTES:**  
 All anchor bolts to be furnished by superstructure contractor and set by substructure contractor except that barrel bolts may be set by others in holes drilled by others.  
 Top of bridge seats on abutment to be dressed to true elevation.  
 Concrete to be Class B.  
 All reinforcing bars to be of deformed type and lapped 40 diameters at splices.  
 All construction joints to be adequately keyed.  
 Minimum clear distance from steel to face of concrete to be 2" except in footing where it shall be 3".  
 Hooked bars to be detailed as shown.  
 All reinforcement except in piles and abutment walls.  
 Concrete piles retained on Contract.  
 Drawing No. 8 and included under Item 9.  
 Concrete in footings included under Item 10, other concrete under Item 11.  
 Backs of retaining walls and abutment in contact with fill to be waterprooed as specified.

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**INDIANA ABUTMENT 1-26**

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
*J. M. Masters*  
 MODJESKI & MASTERS

SCALE IN FEET  
 0 1 2 3 4 5 6  
 CONTRACT NO. 3 DRAWING NO. 5  
 OCT. 1938  
 MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED SEPT. 1940  
 TO SHOW THE WORK  
**AS CONSTRUCTED**



**NOTES:**

- Backs of retaining walls and abutment and east side of East Retaining Wall in contact with fill shall be given two coats of approved waterproofing compound.
- All anchor bolts to be furnished by superstructure contractor and set by substructure contractor, except for handrail bolts which will be set by others in holes drilled by others.
- Tops of bridge seats shall be dressed to true elevation.
- All construction joints shall be adequately treated.
- All reinforcing bars to be deformed type and lapped 40 diameters of splices.
- Minimum clear distance from steel to face of concrete shall be 2" except in slabs.
- Concrete shall be Class B, except in k-lings which shall be Class C.
- Reinforcing steel shown on this sheet is intended under Item 13, all other work is lump sum under Item 2, except approach piers as noted.
- Existing retaining walls, curbs and sidewalks which interfere with new construction and are not to be retained in finished work shall be removed under this contract.

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**OWENSBORO APPROACH RETAINED FILL**

SCALE IN FEET  
 GENERAL 1" = 10'-0"  
 DETAILS 1" = 1'-0"

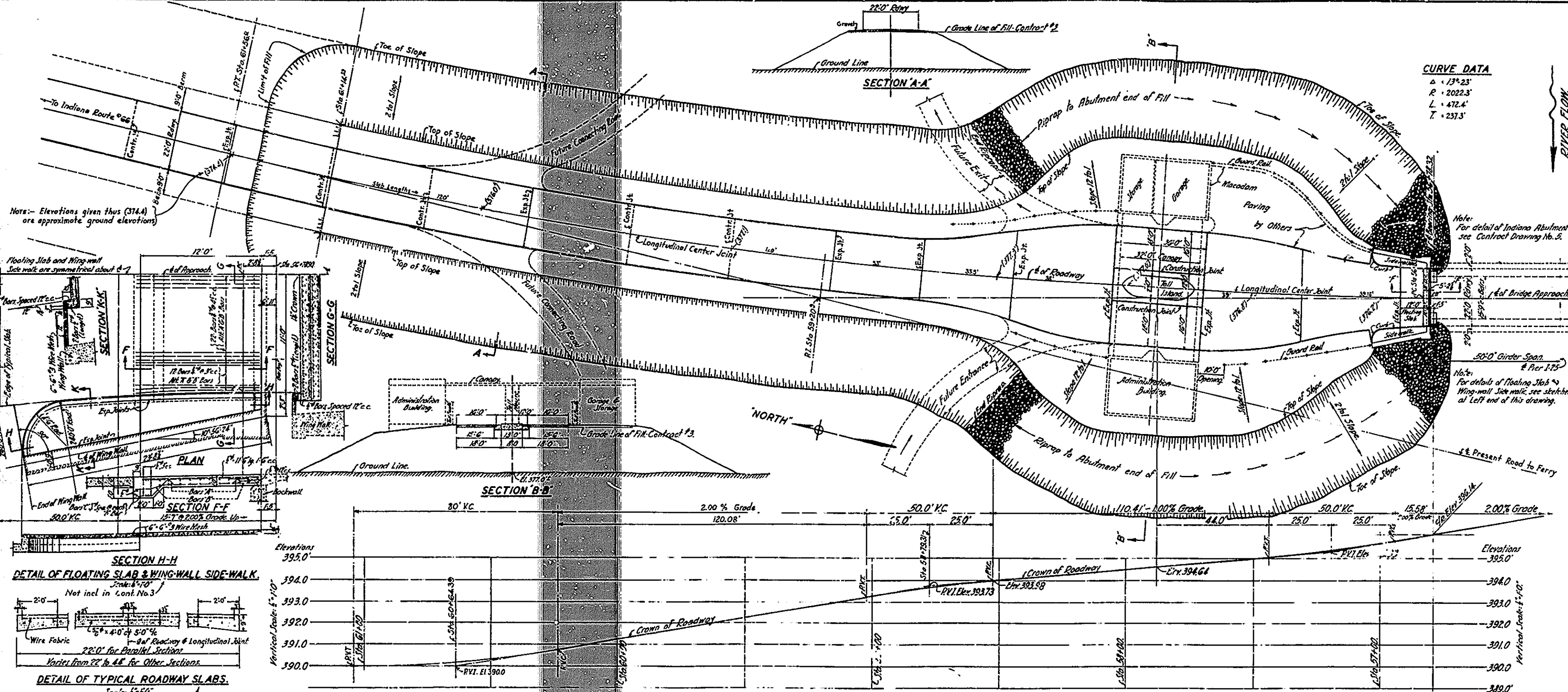
CONTRACT NO. 3      DRAWING NO. 8

APPROVED: *J. M. Masters* 10/1/38  
 MODJESKI & MASTERS

OCT. 1938  
 MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED

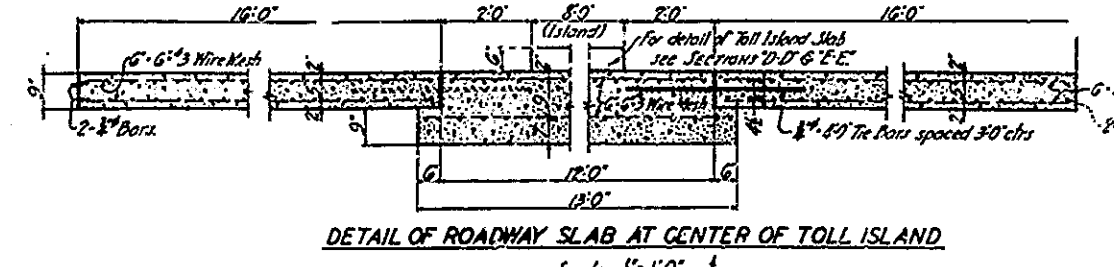
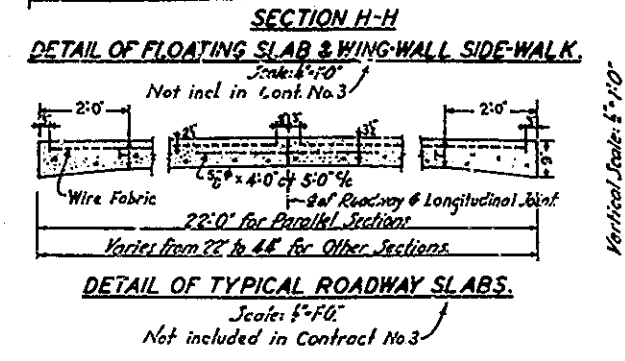
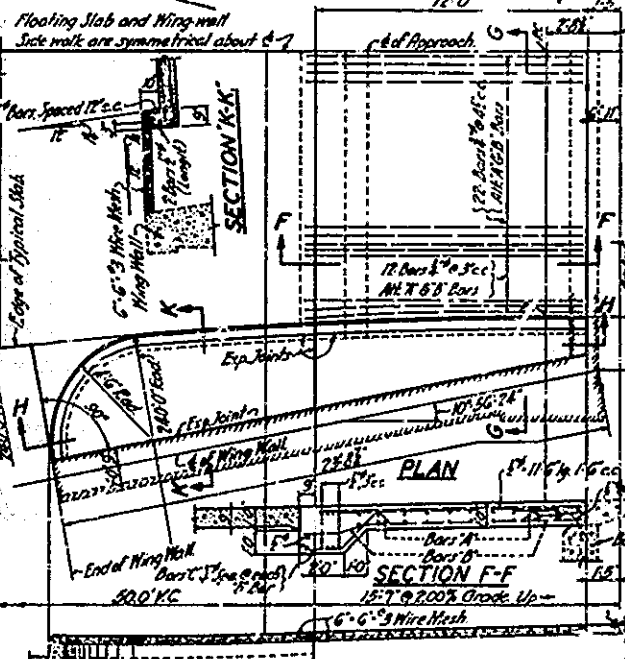
**CURVE DATA**  
 $\Delta = 13^{\circ}23'$   
 $R = 2022.3'$   
 $L = 472.4'$   
 $T = 237.3'$



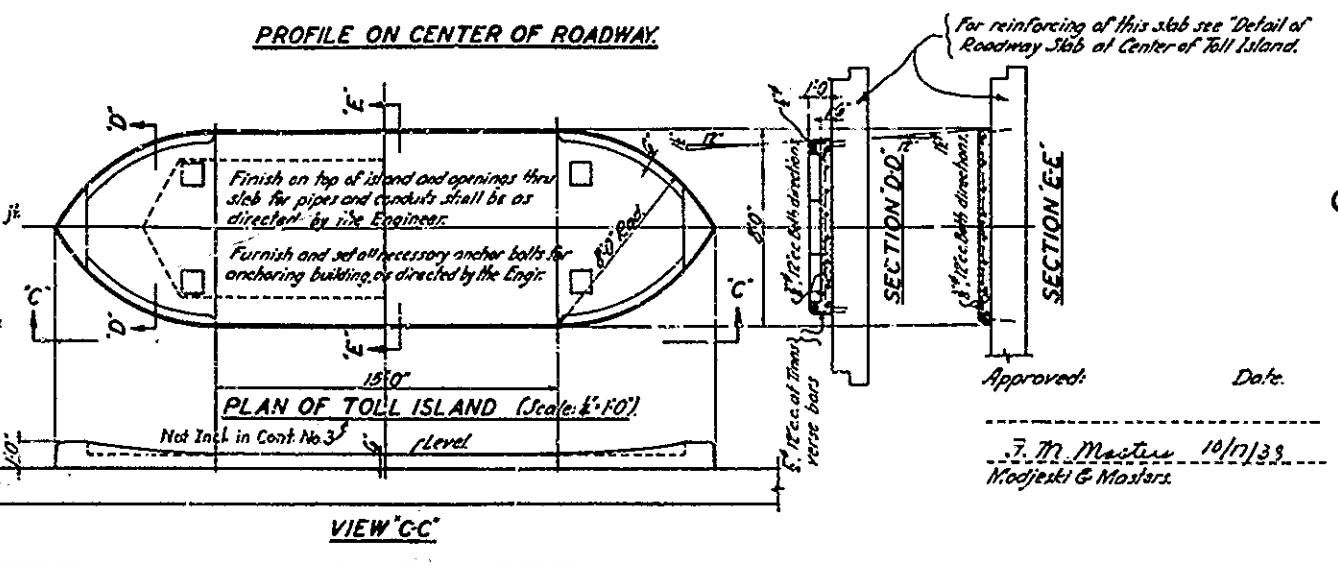
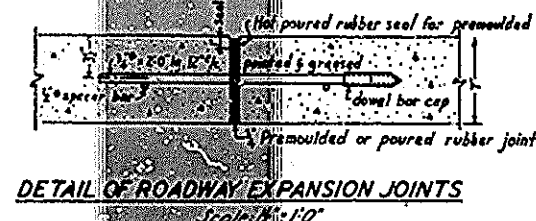
Note: Elevations given thus (374.4) are approximate ground elevations

Note: For detail of Indiana Abutment see Contract Drawing No. 3.

Note: For details of floating slabs & wing wall side walls see sketches at left end of this drawing.



Note:  
 All reinforcing deformed type, to be lapped 40 diameters of splices.  
 Backs of Abutment walls in contact with fill to be given two coats of approved  
 Damp proofing Compound.  
 All concrete to be "Class A"  
 Minimum clear distance between reinforcing steel and face of concrete shall be 2"  
 except in sidewalk slabs.



ABUTMENT, FILL AND RIPRAP TO BE FURNISHED UNDER CONTRACT NO. 3.  
 CONCRETE PAVEMENT, TOLL ISLAND, GUARD RAILS, AND BUILDINGS FURNISHED UNDER FUTURE CONTRACTS.

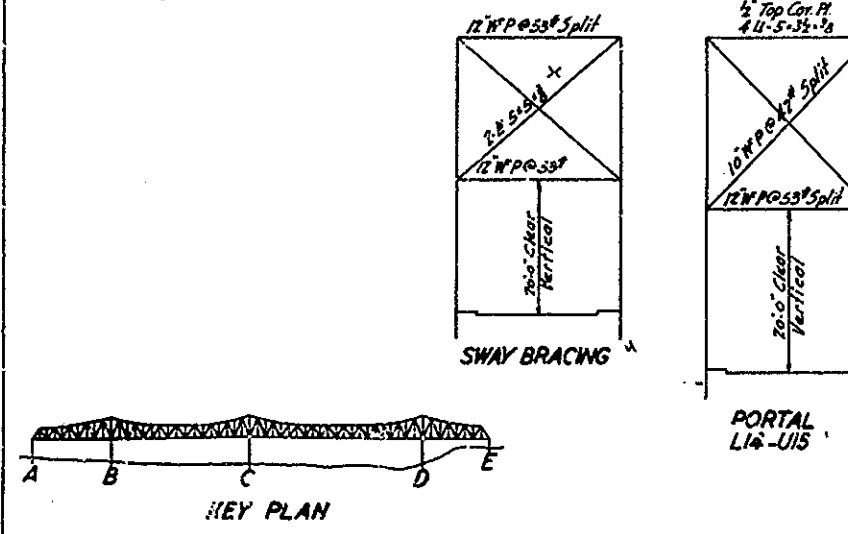
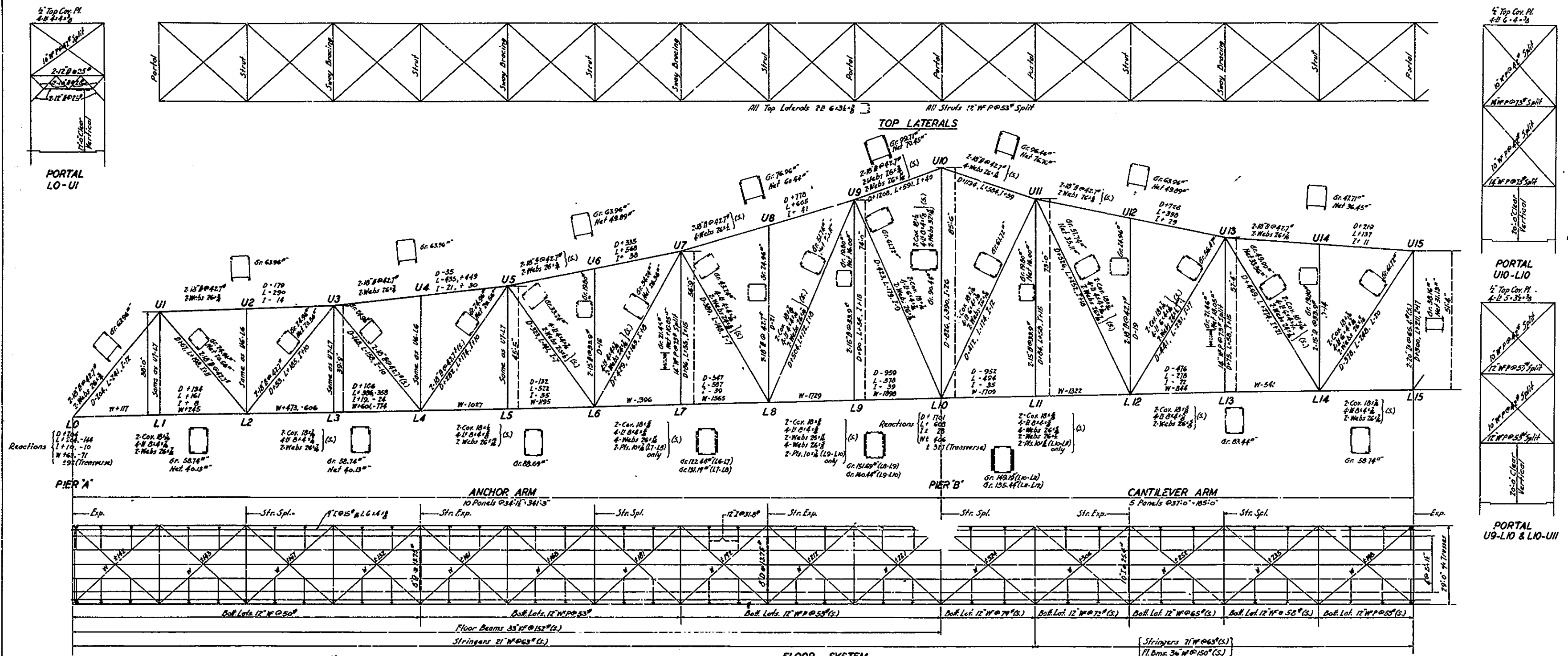
**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY.**  
**DETAILS OF INDIANA PLAZA**

SCALE IN FEET (UNLESS NOTED)  
 CONTRACT NO. 3 DRAWING NO. 7  
 OCT. 1938.

MODJESKI & MASTERS-ENGINEERS.

THIS DRAWING REVISED SEPT. 1940 TO SHOW THE WORK AS CONSTRUCTED





**DESIGN LOADINGS**

Between Piers A-B		Between Piers B-C	
Dead Load	Future Paving	Dead Load	Future Paving
2340	200	2340	200
Concrete Floor	Light Weight Floor	Concrete Floor	Light Weight Floor
330	330	330	330
Conduits	Conduits	Conduits	Conduits
2870*	2750*	2870*	2750*

Total (per lin. ft. of bridge) 2870\*

To this shall be added the weight of the steel construction.

**L-Live Load**  
 H20 Loading as contained in the Standard Specifications for Highway Bridges, 1935 Edition, of the American Assoc. of State Highway Officials.

**Lateral Forces**  
 Moving load of 30\* per sq. ft. on 4 times area of structure seen in elevation plus 200\* per lin. ft. of loaded structure; or 50\* per sq. ft. applied as a force on unloaded structure.

**GENERAL NOTES**

**UNIT STRESSES**

	Med Carbon Steel	Silicon
Axial Tension, Net Section	18000	24000
Axial Compression	15000 - 1/2 (A) <sup>2</sup>	20000 - 46 (A) <sup>2</sup>
Shear, Girder webs, gr. section	11000	14000
Pins & power driven rivets	12000	
Bearing, Pins & steel parts in contact	27000	32000
Power driven rivets	24000	

Bearing on Concrete 600\* per sq. inch

Trusses shall be cambered for dead load plus a uniform live load of 700 per lin. ft. of bridge for the full length of spans.

Stresses, shears and reactions given in kips.

Moments given in foot-kips.

Material: All material is medium carbon steel except as marked (S) indicating silicon steel. All anchor bolts to be furnished by superstructure contractor and set by substructure contractor. Superstructure contractor to furnish setting plan of anchor bolts.

**NOTES**

All material on this drawing furnished & erected under Item No. 2

For shears and moments of floorbeams & stringers see Contract Drawing No. 4

Approved: J. M. M... 12/1/31

Modjeski & Masters

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**STRESS SHEET**  
**ANCHOR ARM 'A-B' & CANTILEVER ARM 'B'**

SCALE IN FEET  
 0 10 20 30

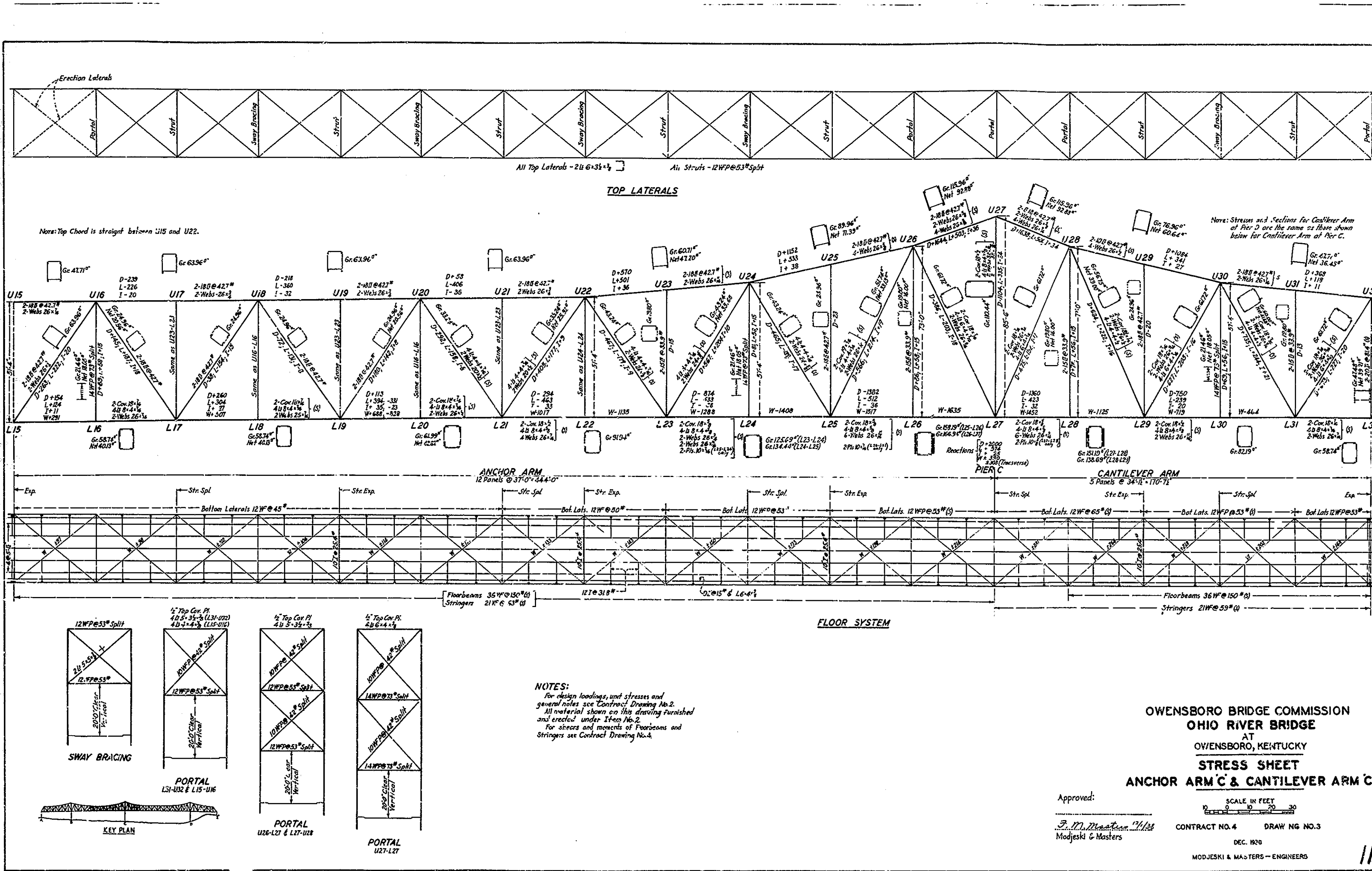
CONTRACT NO. 4 DRAWING NO. 2

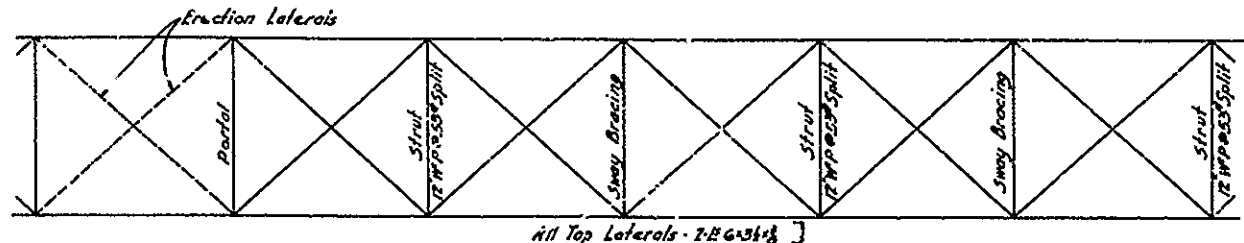
DEC. 1938

MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED APRIL 1943 TO SHOW THE WORK AS CONSTRUCTED

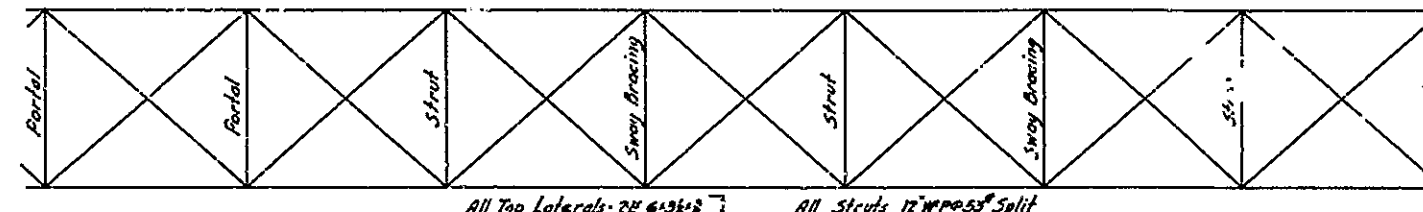




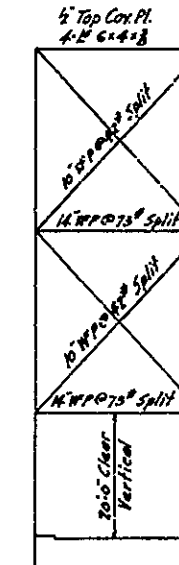


TOP LATERALS

NOTE-  
Top Chord is straight between U32 & U44



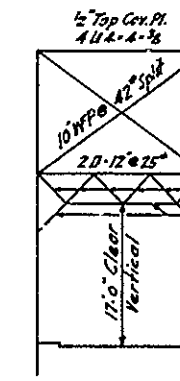
TOP LATERALS



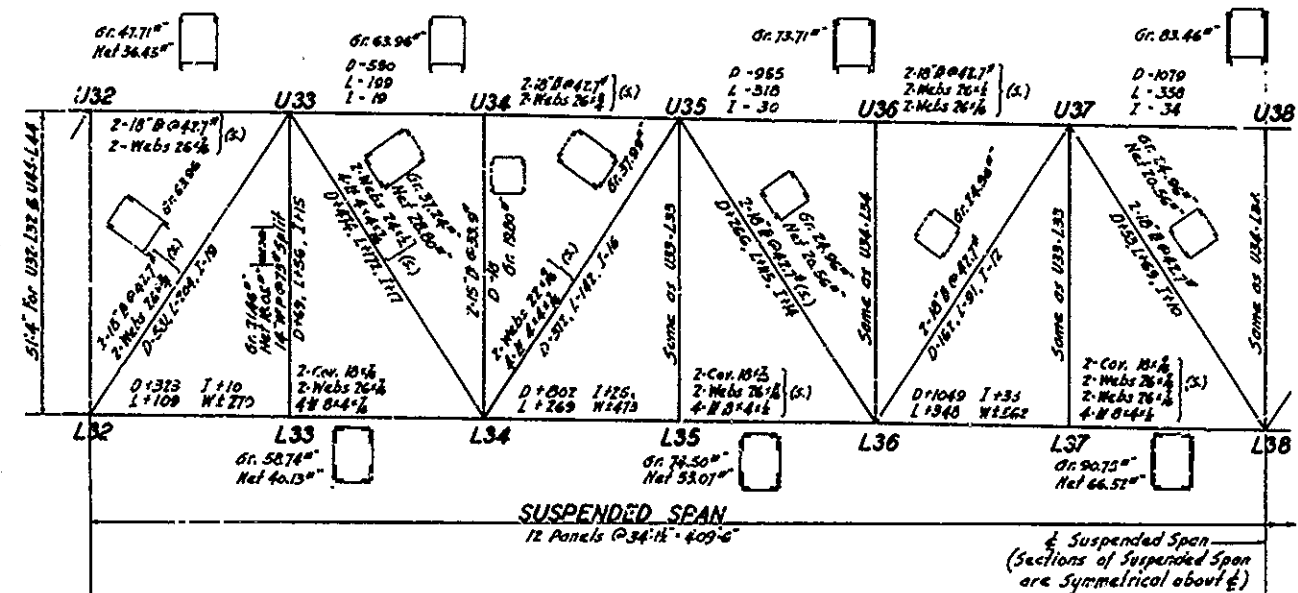
PORTAL U49-L79



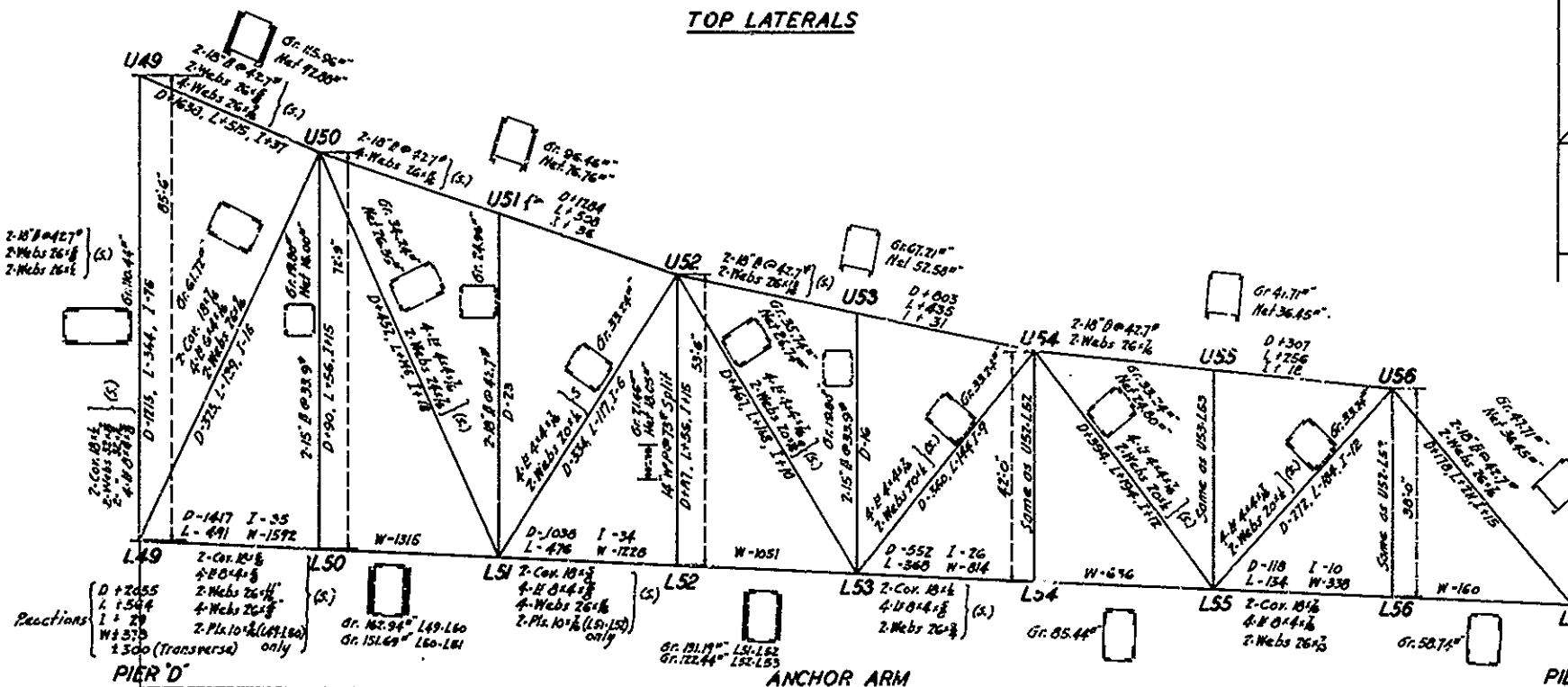
PORTAL L49-U50



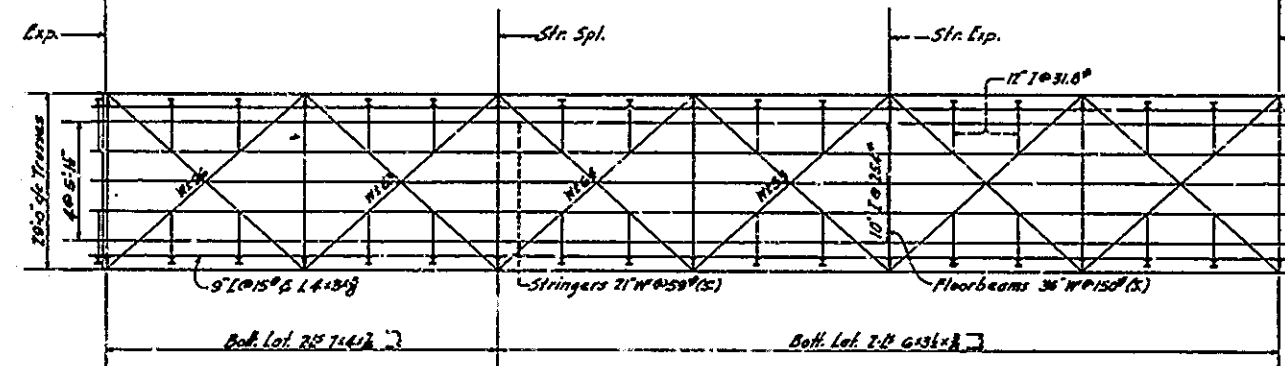
PORTAL U56-L57



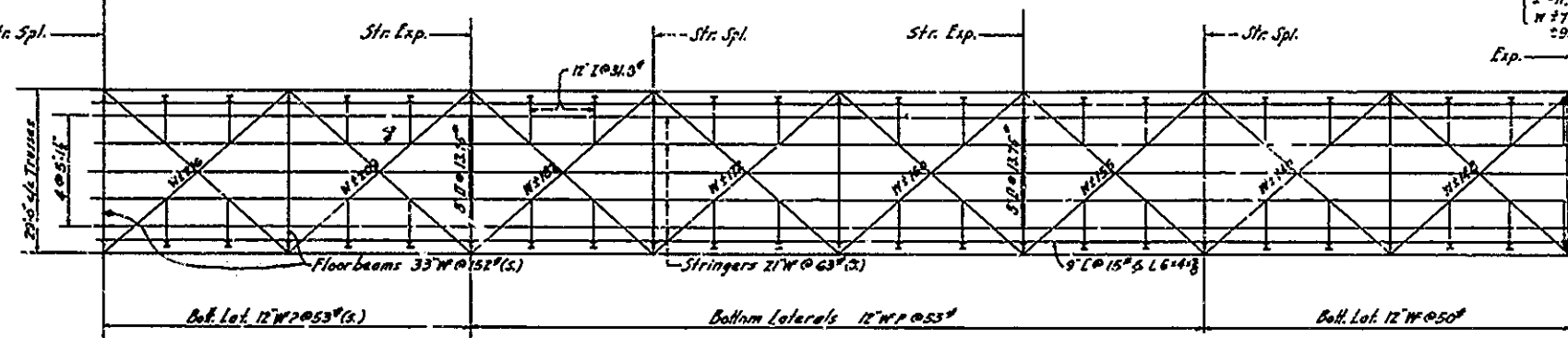
SUSPENDED SPAN



ANCHOR ARM

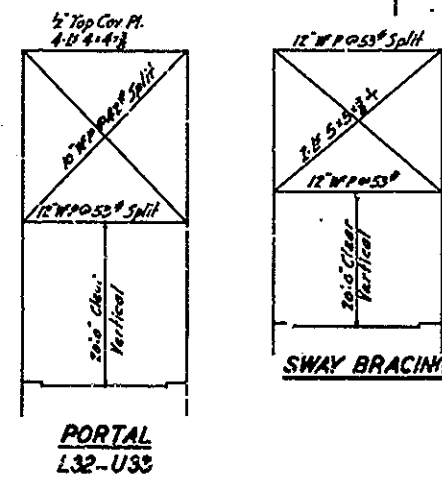


FLOOR SYSTEM



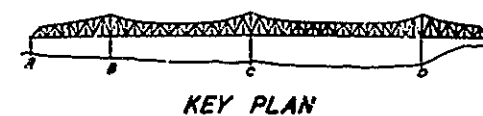
FLOOR SYSTEM

MAIN BRIDGE FLOOR SYSTEM								
STRINGERS	Pier A to Pier B		Pier B to Pier C		Pier C to Pier D		Pier D to Pier E	
	Shear	Mom.	Shear	Mom.	Shear	Mom.	Shear	Mom.
D	11	93	9	81	65	11	96	
L	21	163	21	180	21	163	21	167
T	7	51	7	56	7	51	7	52
Total	39	307	37	317	37	285	39	315
UN. MOM.	123 SILL		127 SILL		113 SILL		126 SILL	
SECTION	21 W16x55 (S)	21 W16x55 (S)	21 W16x55 (S)	21 W16x55 (S)	21 W16x55 (S)	21 W16x55 (S)	21 W16x55 (S)	21 W16x55 (S)
STRINGERS	Shear	Mom.	Shear	Mom.	Shear	Mom.	Shear	Mom.
D	61	436	57	366	57	366	65	436
L	44	394	45	402	45	402	44	397
T	12	103	11	102	11	102	12	103
Total	120	933	113	870	113	870	121	936
UN. MOM.	467 SILL		455 SILL		455 SILL		460 SILL	
SECTION	35 W16x55 (S)	36 W16x55 (S)	36 W16x55 (S)	35 W16x55 (S)	35 W16x55 (S)	35 W16x55 (S)	35 W16x55 (S)	35 W16x55 (S)



SWAY BRACING

NOTES:  
1. design loadings, unit stresses and general notes see Contract Div. No. 2  
2. All materials shown on this drawing furnished and erected under Item No. 2



KEY PLAN

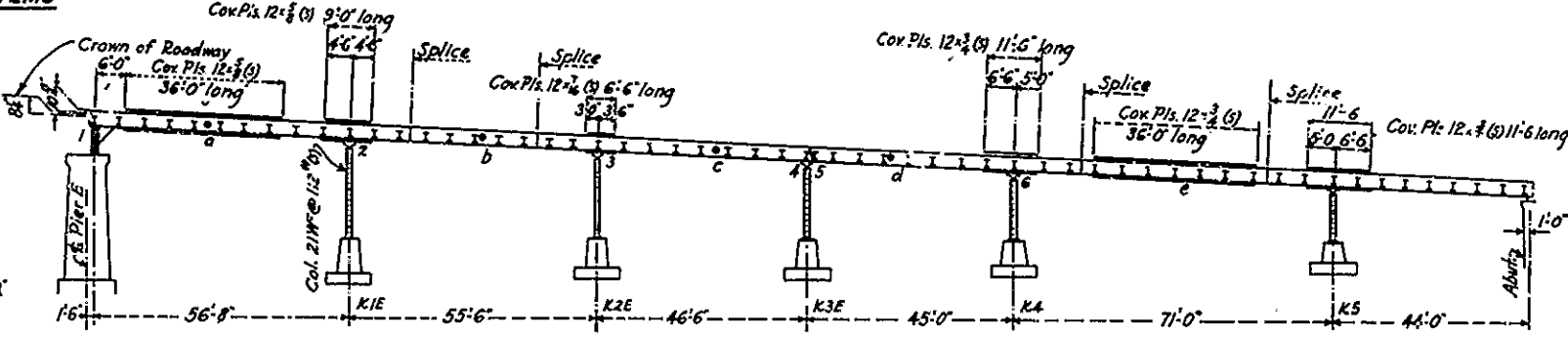
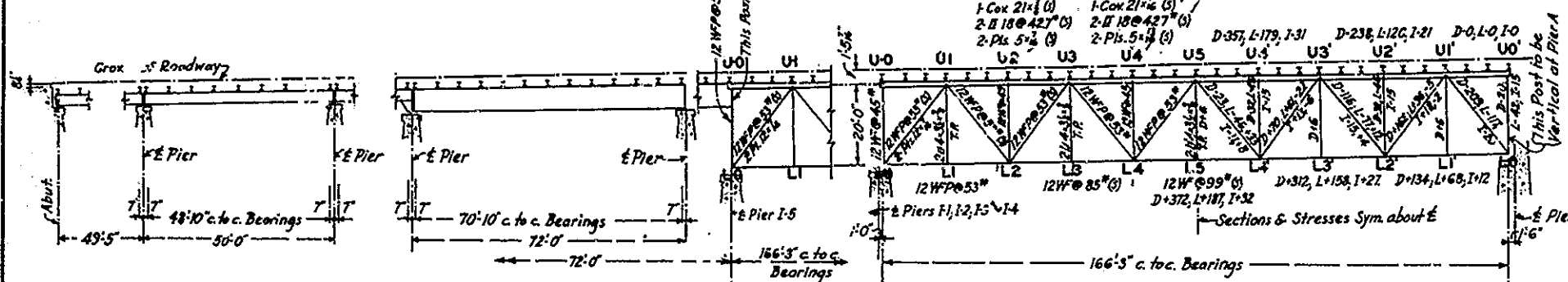
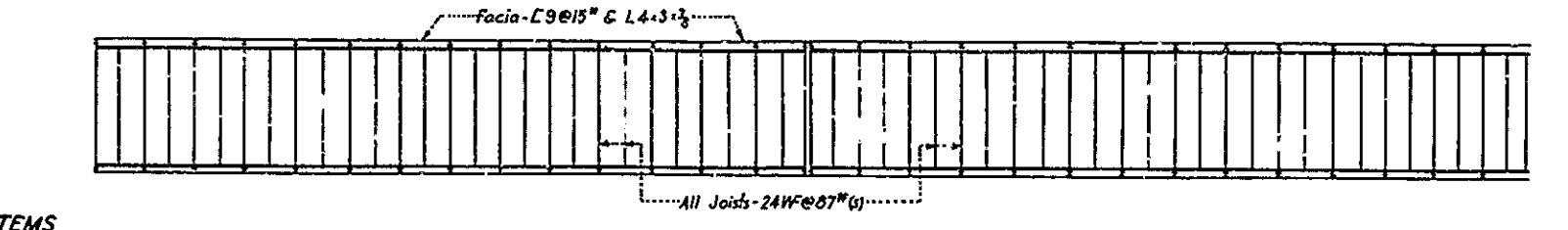
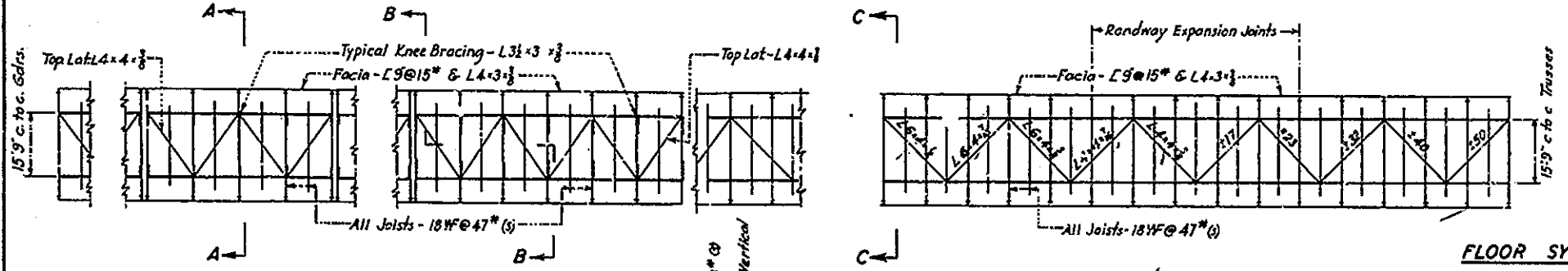
Approved:  
*[Signature]*  
Modjeski & Masters

OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY  
STRESS SHEET  
SUSPENDED SPAN & ANCHOR ARM 'D-E'

SCALE IN FEET  
CONTRACT NO. 4 DRAWING NO. 4  
DEC. 1938  
MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISSED APRIL 1945 TO SHOW THE WORK AS CONSTRUCTED

12



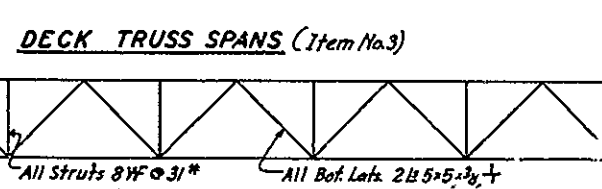
**TYPICAL 50' BEAM SPAN (Item No. 3)**

	Shear	Mom.
D	41	554
L	46	546
I	13	157
Total	100	1257
S.M. Required: 629 (5)		
1-WF 36 @ 194" (5)		

**TYPICAL 72' GIRDER SPAN (Item No. 4)**

	Shear	Mom.
D	62	1210
L	56	905
I	14	231
Total	132	2346
S.M. Required: 1173 (5)		
1-Web 66 x 1/2		
4-4 6 x 6 x 1/2		
1-Cor 14 x 1/2 RL Top		
1-Cor 14 x 1/2 42'-0" Bolt		



**EAST GIRDER MOMENTS & REACTIONS**

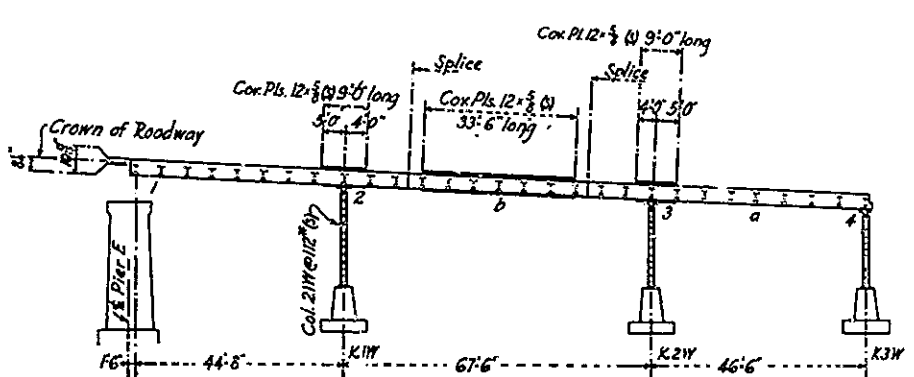
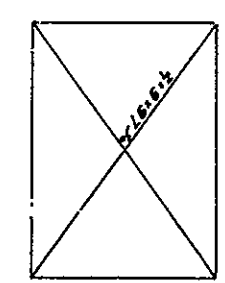
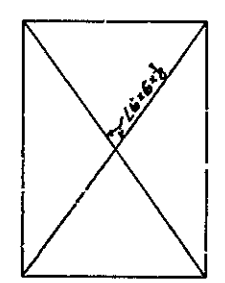
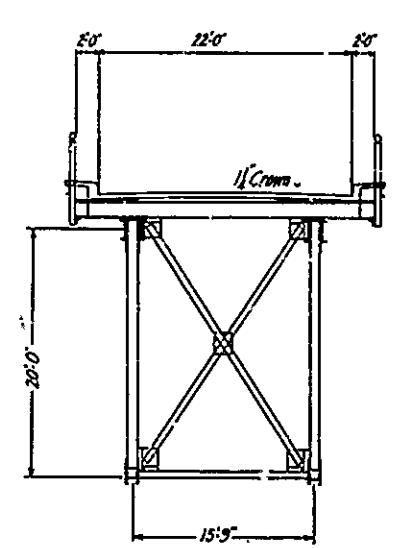
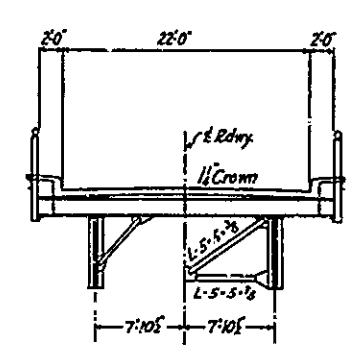
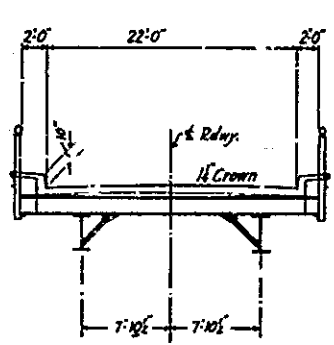
	Ma	Mb	Mc	R1	R2	R3	R4	R4+R5
Dead Load	+549	-681	+215	-503	+328	48	132	112
Live Lc.	+509	-386	+410	-314	+372	50	81	76
Impact	+139	-81	+114	-69	+81	14	17	13
Total	+1197	-1148	+739	-886	+781	112	230	205
S.M. Req'd (5)		599	574	370	443	391		

36WF @ 150" (5) with cover plates as shown

**EAST & WEST GIRDERS - MOMENT & REACTIONS**

	Md	Me	Ms (Shear)	R6
Dead Load	+206	-730	+573	30
Live Load	+333	-409	+547	46
Impact	+98	-85	+139	14
Total	+637	-1224	+1259	90
S.M. Req'd (5)		319	612	630

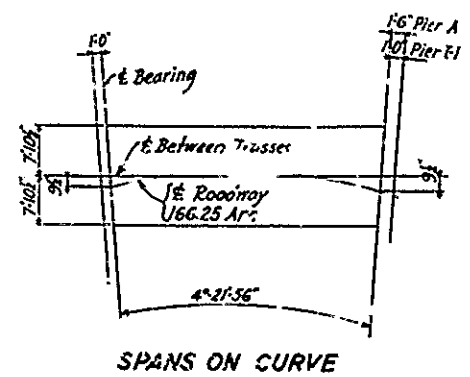
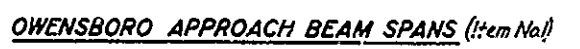
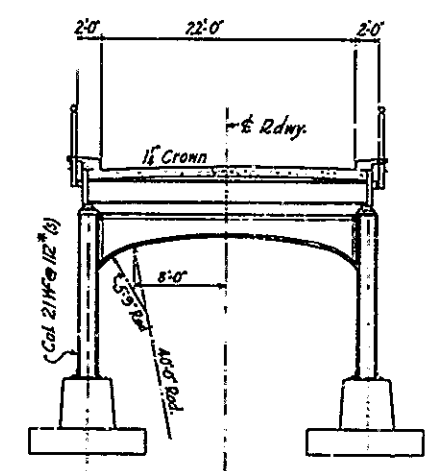
36WF @ 150" (5) with cover plates as shown



**WEST GIRDER MOMENTS & REACTIONS**

	Ma	Me	Ms	Mb	R1	R2 & R3	R4
Dead Load	+257	-686	+481	32	132	62	
Live Load	+345	-388	+516	46	81	61	
Impact	+102	-81	+134	13	17	14	
Total	+707	-1155	+1131	91	230	137	
S.M. Req'd (5)		354	578	566			

36WF @ 150" (5) with cover plates as shown



**NOTES:**  
 For design loadings, unit stresses and general notes, see Contract Div. No. 2.  
 All material shown on this drawing furnished and erected under Items 13.4 and 5 as noted.

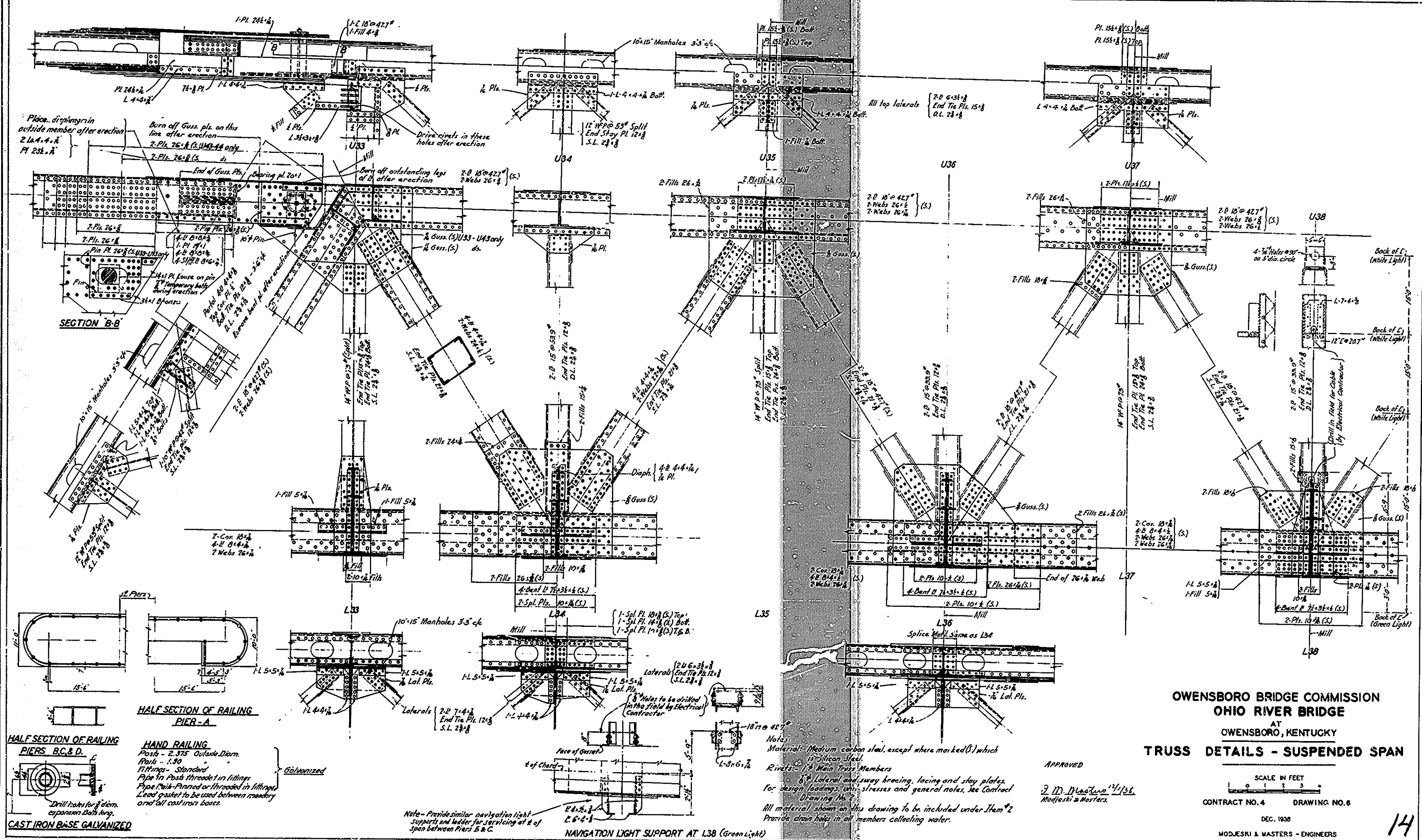
Approved:  
 J. J. L. Modjeski & Masters  
 Modjeski & Masters

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**STRESS SHEET**  
**DECK TRUSS & GIRDER SPANS**

SCALES IN FEET  
 CONTRACT NO. 4 DRAWING NO. 5  
 DEC. 1938  
 MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK.  
**AS CONSTRUCTED**





**HALF SECTION OF RAILING**  
PIERS B, C & D

**HALF SECTION OF RAILING**  
PIERS A

**HAND RAILING**  
Posts - 2.375" Outside Diarn.  
Posts - 1.30"  
Fittings - Standard  
Pipe in Posts threaded in fittings  
Pipe (w/ink-Pinned or threaded in fittings)  
Lead gasket to be used between masonry and all cast iron bases.

Drill holes for expansion bolts long.

**CAST IRON BASE GALVANIZED**

Note - Provide similar navigation light supports and ladder for servicing at # of span between Piers B & C.

**NAVIGATION LIGHT SUPPORT AT L38 (Green Light)**

**Notes:**  
Material - Medium carbon steel, except where marked (S) which is Silicon Steel.  
Rivets - 1/2" Main Truss Members  
Lateral and sway bracing, lacing and stay plates, for design loadings, stresses and general notes, see Contract Drawing No. 2.  
All material shown on this drawing to be included under Item #2 Provide drain holes in all members collecting water.

APPROVED  
E. D. Masters 11/1/36  
Modjeski & Masters

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
AT  
OWENSBORO, KENTUCKY  
**TRUSS DETAILS - SUSPENDED SPAN**

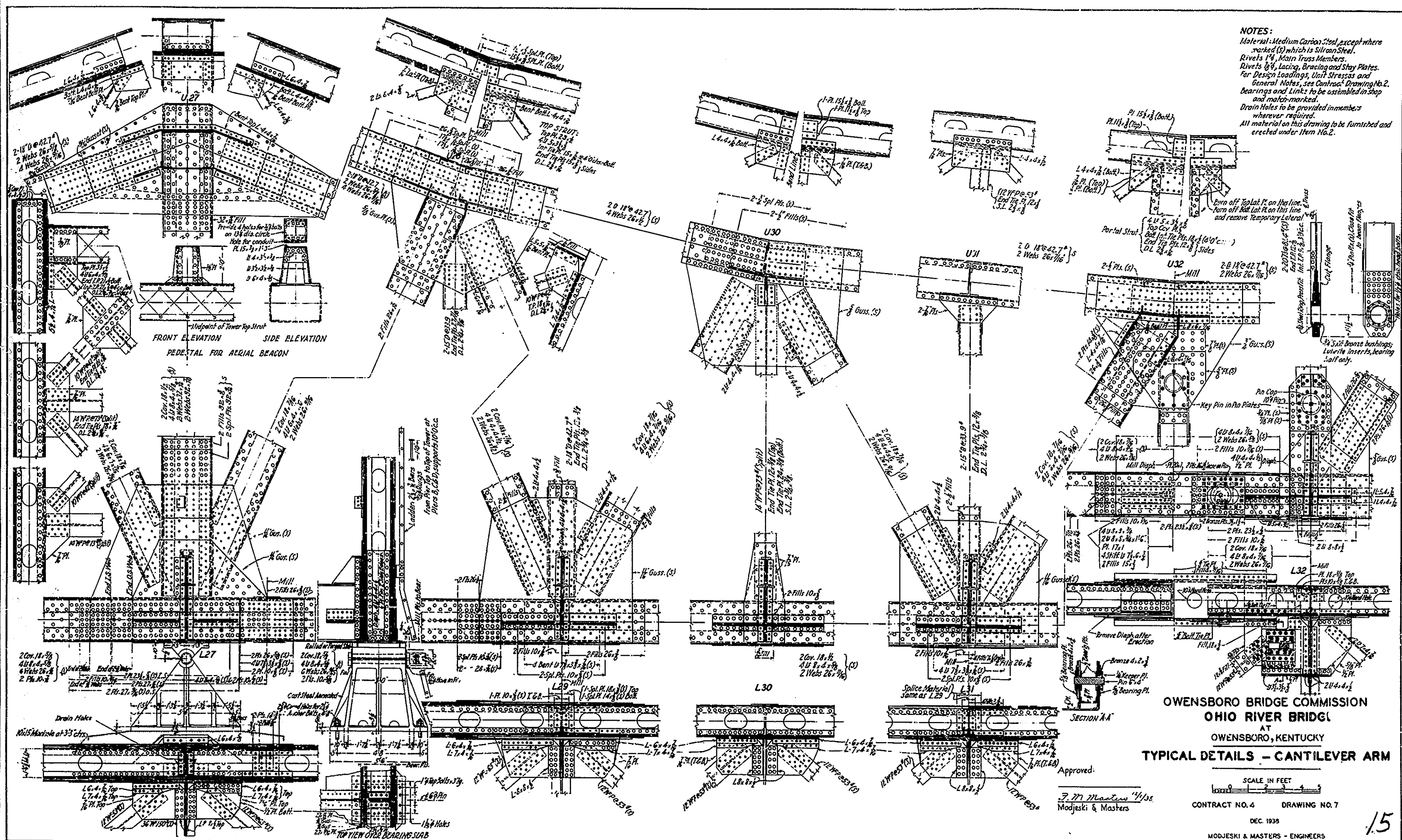
SCALE IN FEET  
CONTRACT NO. 4 DRAWING NO. 6

DEC. 1938  
MODJESKI & MASTERS - ENGINEERS

THIS DRAWG. REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED

14





**NOTES:**  
 Material: Medium Carbon Steel, except where marked (S) which is Silcon Steel.  
 Rivets 1 1/4", Main Truss Members.  
 Rivets 1 1/8", Lacing, Bracing and Stay Plates.  
 For Design Loadings, Unit Stresses and General Notes, see Contract Drawing No. 2. Bearings and Links to be assembled in Shop and match-marked.  
 Drain Holes to be provided in members wherever required.  
 All material on this drawing to be furnished and erected under Item No. 2.

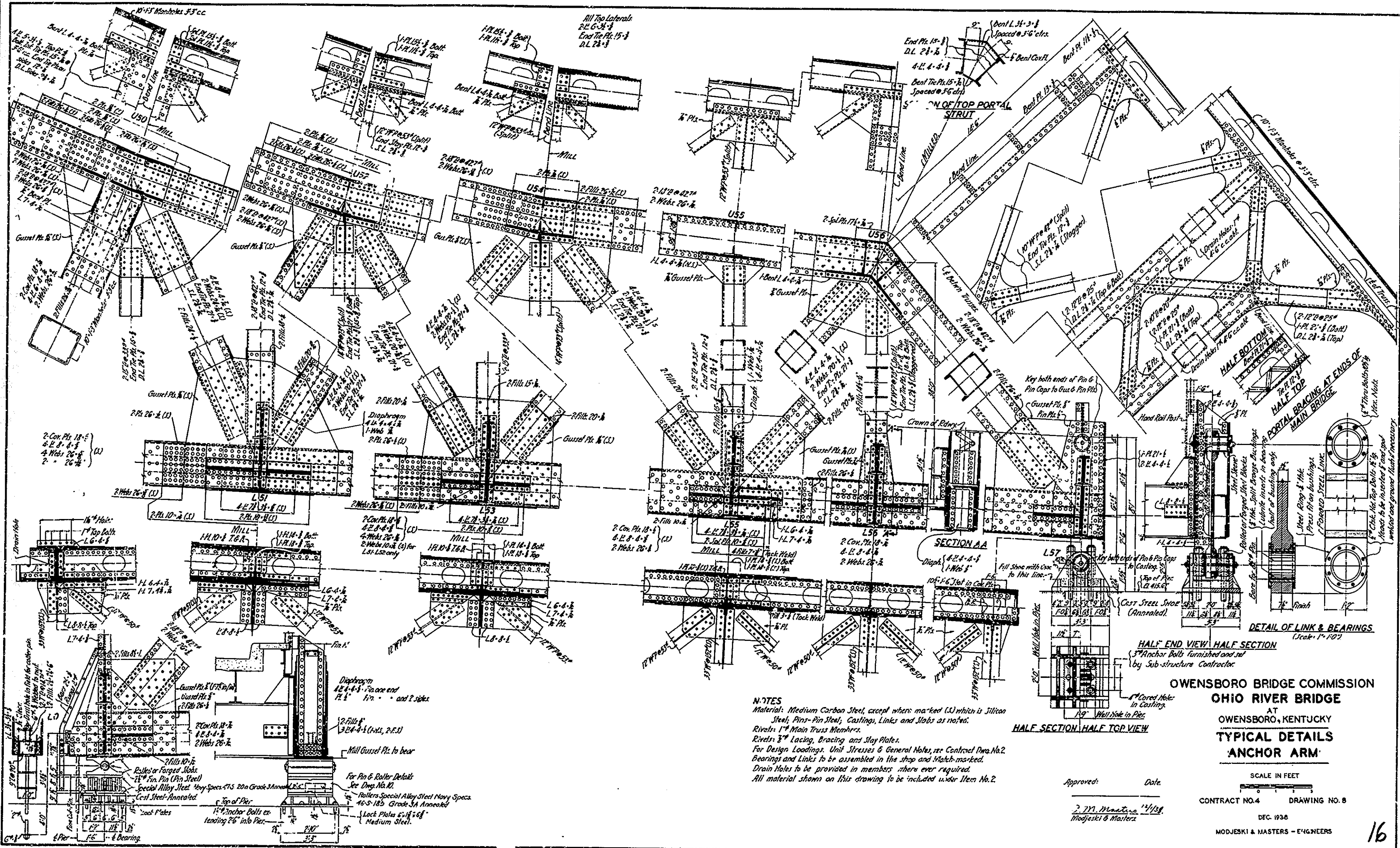
**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**TYPICAL DETAILS - CANTILEVER ARM**

Approved:  
 J. M. Masters  
 Modjeski & Masters

SCALE IN FEET  
 0 1 2 3 4  
 CONTRACT NO. 4 DRAWING NO. 7  
 DEC. 1938  
 MODJESKI & MASTERS - ENGINEERS

15

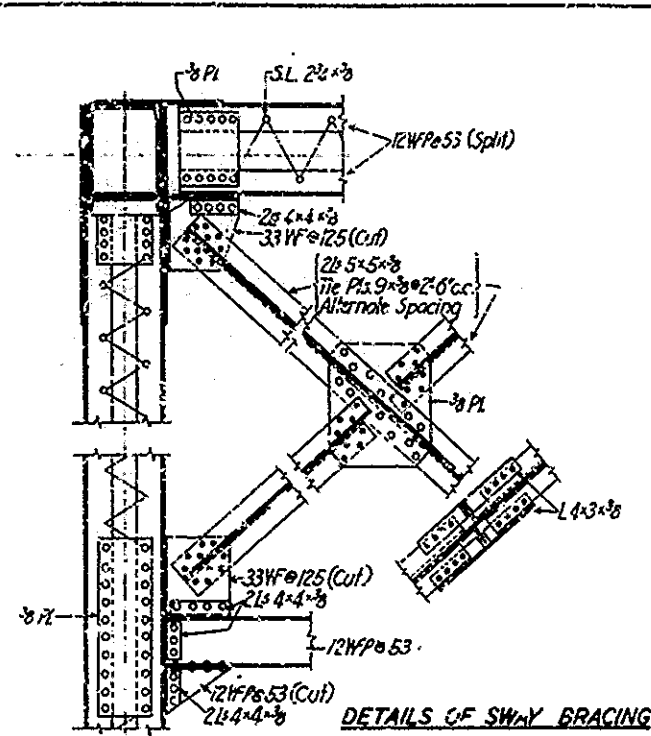
THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED



THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED

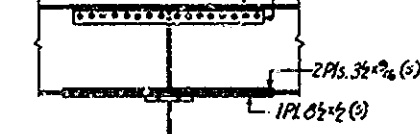
16



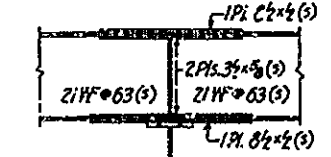


DETAILS OF SWAY BRACING

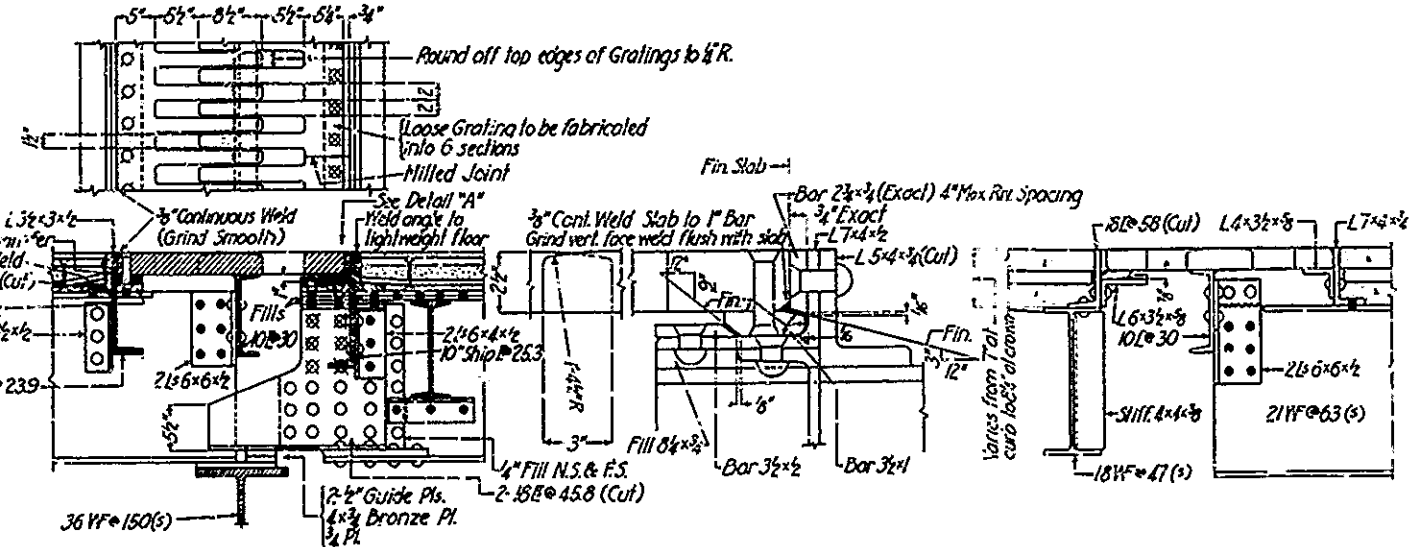
Countersink holes this side  
 2x4x3/4 (6) for 21WF59 (6)  
 2x4x3/4 (6) for 21WF63 (6)



FOR LIGHTWEIGHT FLOOR



FOR 7" SLAB FLOOR STRINGER SPLICES



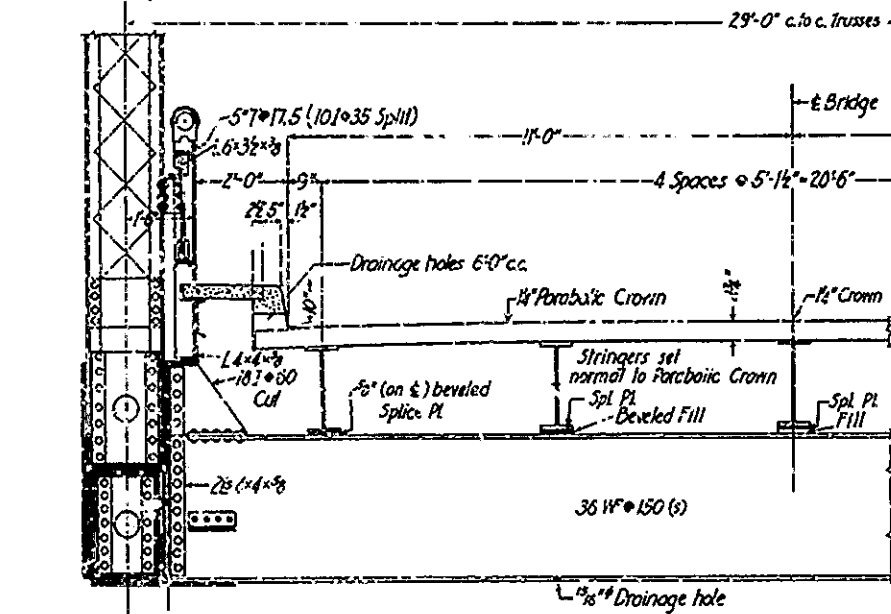
EXPANSION DAMS AT L15, L32 & L44

DETAIL "A" (Scale 3"=10')

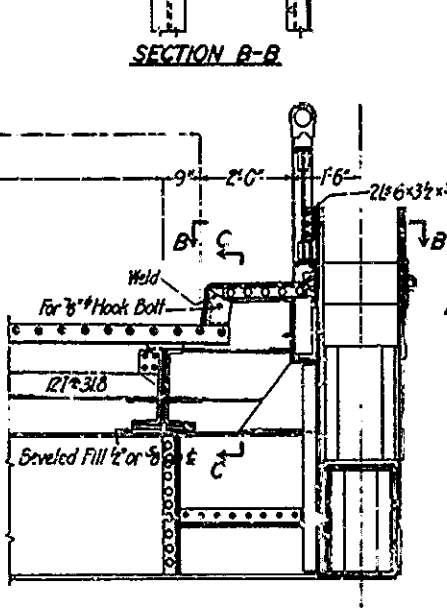
EXPANSION DAM AT PIER A

EXPANSION DAM AT PIER E

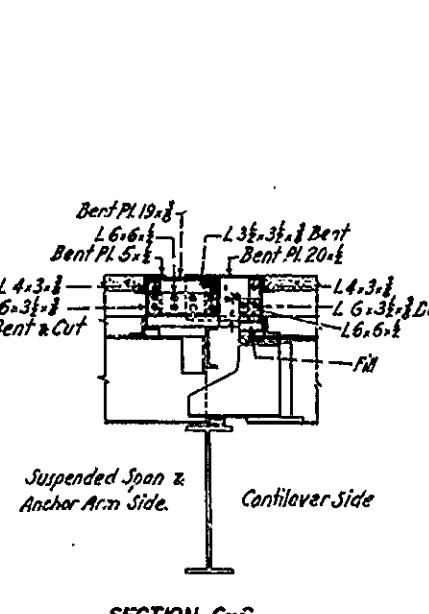
Expansion Dams, Gratings and Supports assembled in shop and matchmarked



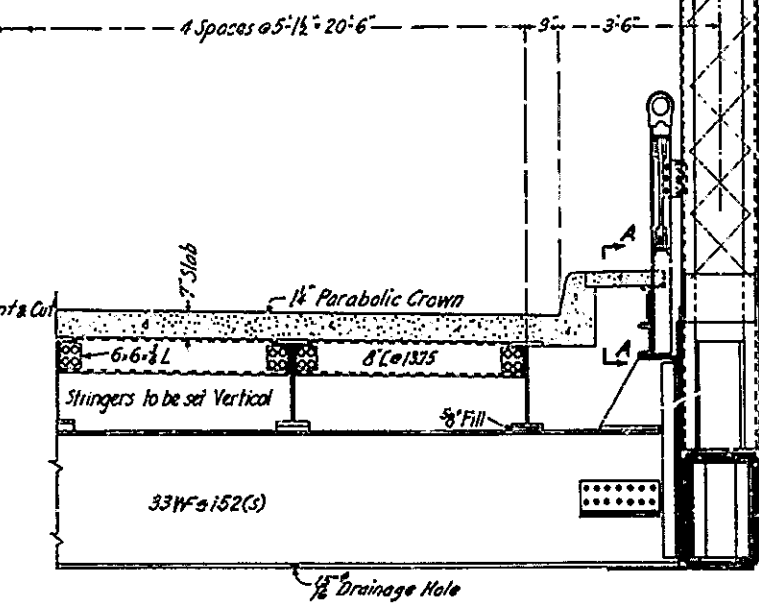
HALF SECTION AT L32



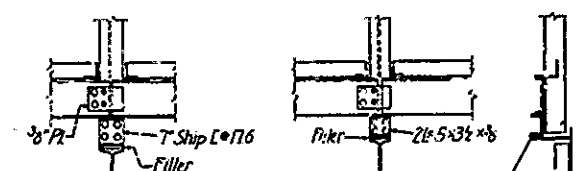
SECTION THRU EXP. DAM AT L15, L32 & L44



SECTION C-C

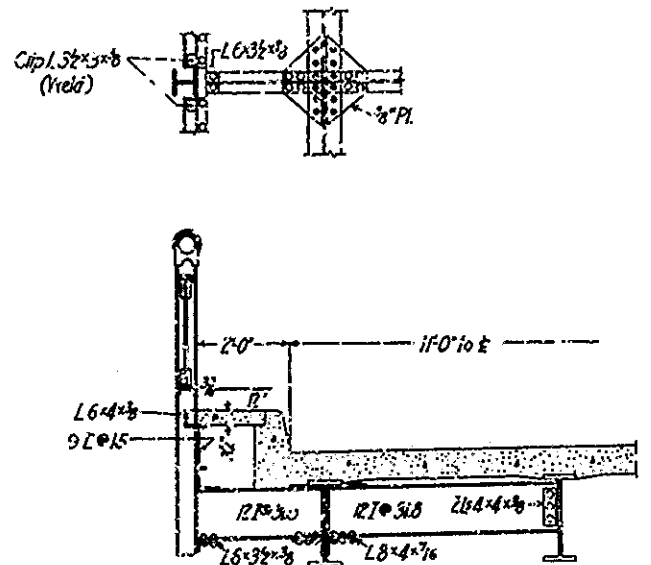


HALF SECTION AT STRINGER EXPANSION JOINTS (Section through 7" Slab Floor shown)

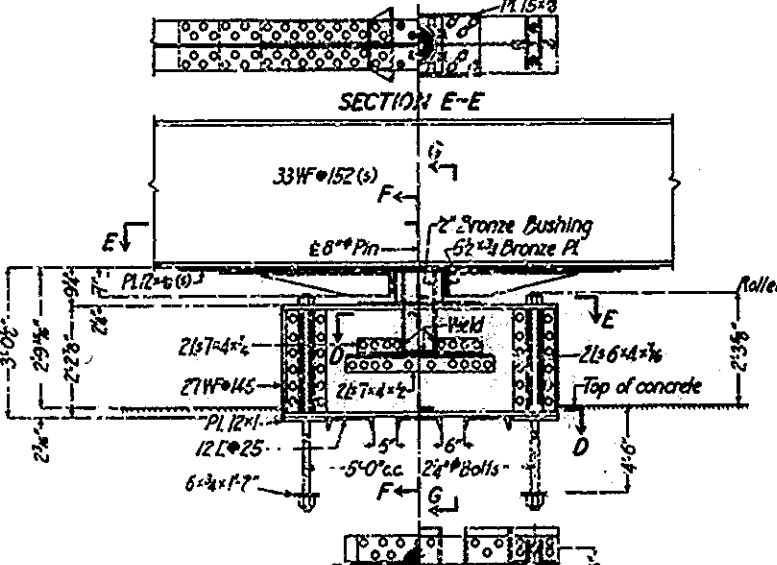


FOR 7" SLAB FLOOR FOR LIGHTWEIGHT FLOOR SECTION A-A

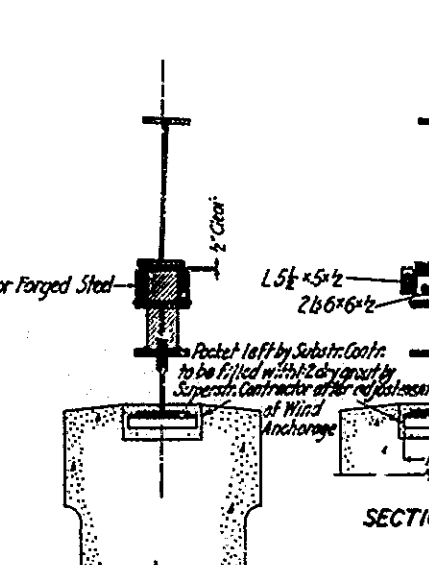
NOTES:  
 Material - Medium Carbon Steel except where marked (S) which is Silicon Steel.  
 Rivets - 1" Main Truss Members  
 3/4" Floor system, Laterals, Sway Bracing, Lacing & Stay Pts.  
 For design loadings, unit stresses and general notes see Contract Dwg. No. 2.  
 All anchor bolts furnished by superstructure contractor and set by substructure contractor.



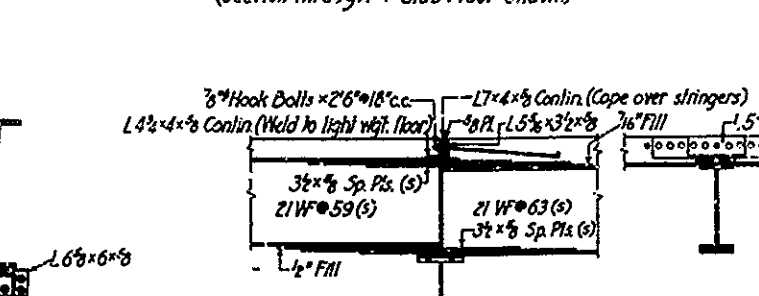
INTERMEDIATE RAILING SUPPORT



SECTION D-D DETAILS OF WIND ANCHORAGE AT PIER E To be assembled and matchmarked



SECTION F-F



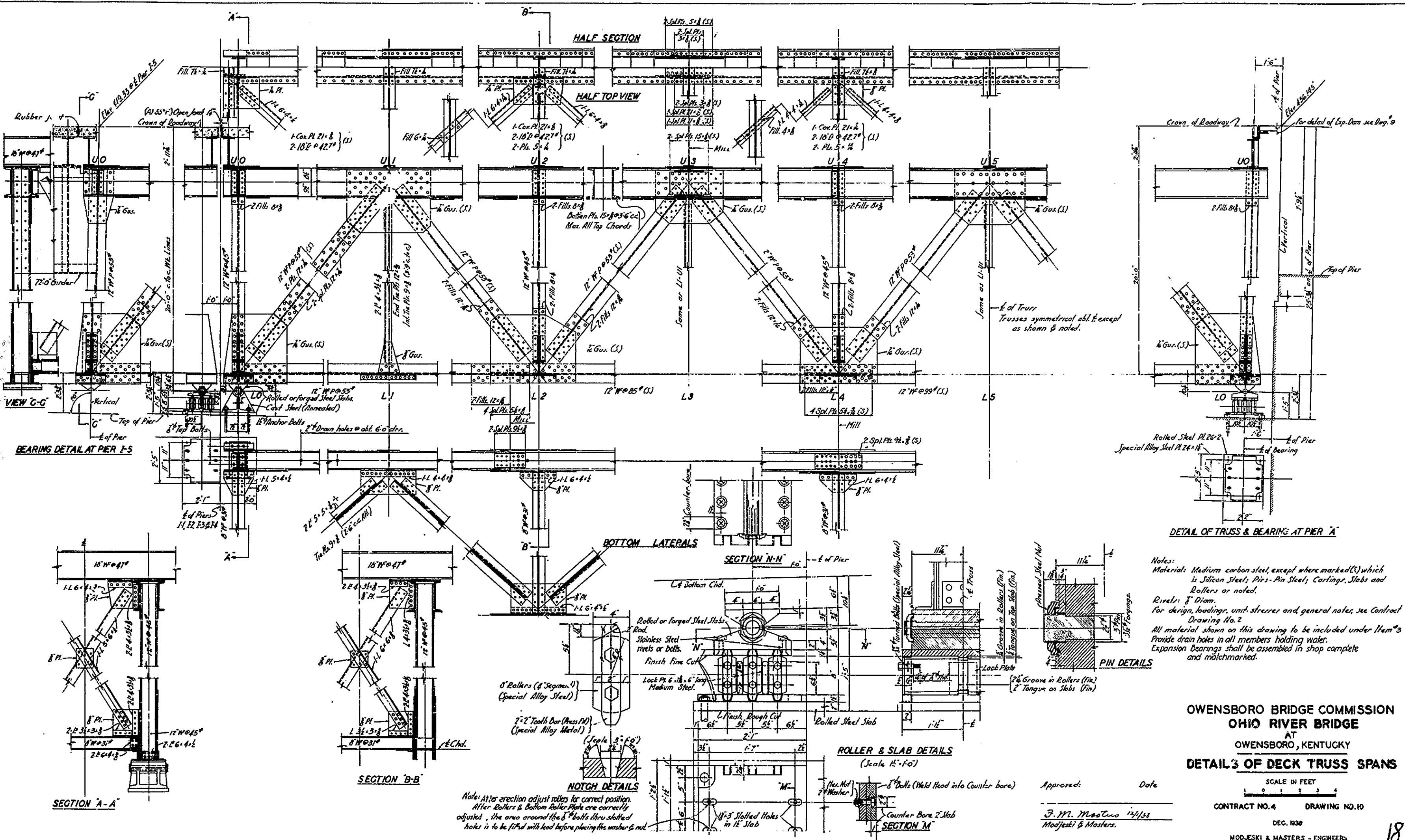
STRINGER SPLICE AT PIERS B & D (Splice of Pier D shown)

OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT OWENSBORO, KENTUCKY  
 TYPICAL SECTIONS & DETAILS  
 MAIN BRIDGE

SCALE IN FEET  
 GENERAL CONTRACT NO. 4 DRAWING NO. 9  
 NOV. 1936  
 MOJESKI & MASTERS - ENGINEERS

APPROVED:  
 M. J. Mojleski  
 MOJESKI & MASTERS

THIS DRWG. REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED



Notes:  
 Material: Medium carbon steel, except where marked (S) which is Silicon Steel; Pins - Pin Steel; Castings, Slabs and Rollers as noted.  
 Rivets: 3/4" Diam.  
 For design, loading, unit stresses and general notes, see Contract Drawing No. 2  
 All material shown on this drawing to be included under Item 3  
 Provide drain holes in all members holding water.  
 Expansion Bearings shall be assembled in shop complete and matchmarked.

**OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT  
 OWENSBORO, KENTUCKY  
 DETAIL'S OF DECK TRUSS SPANS**

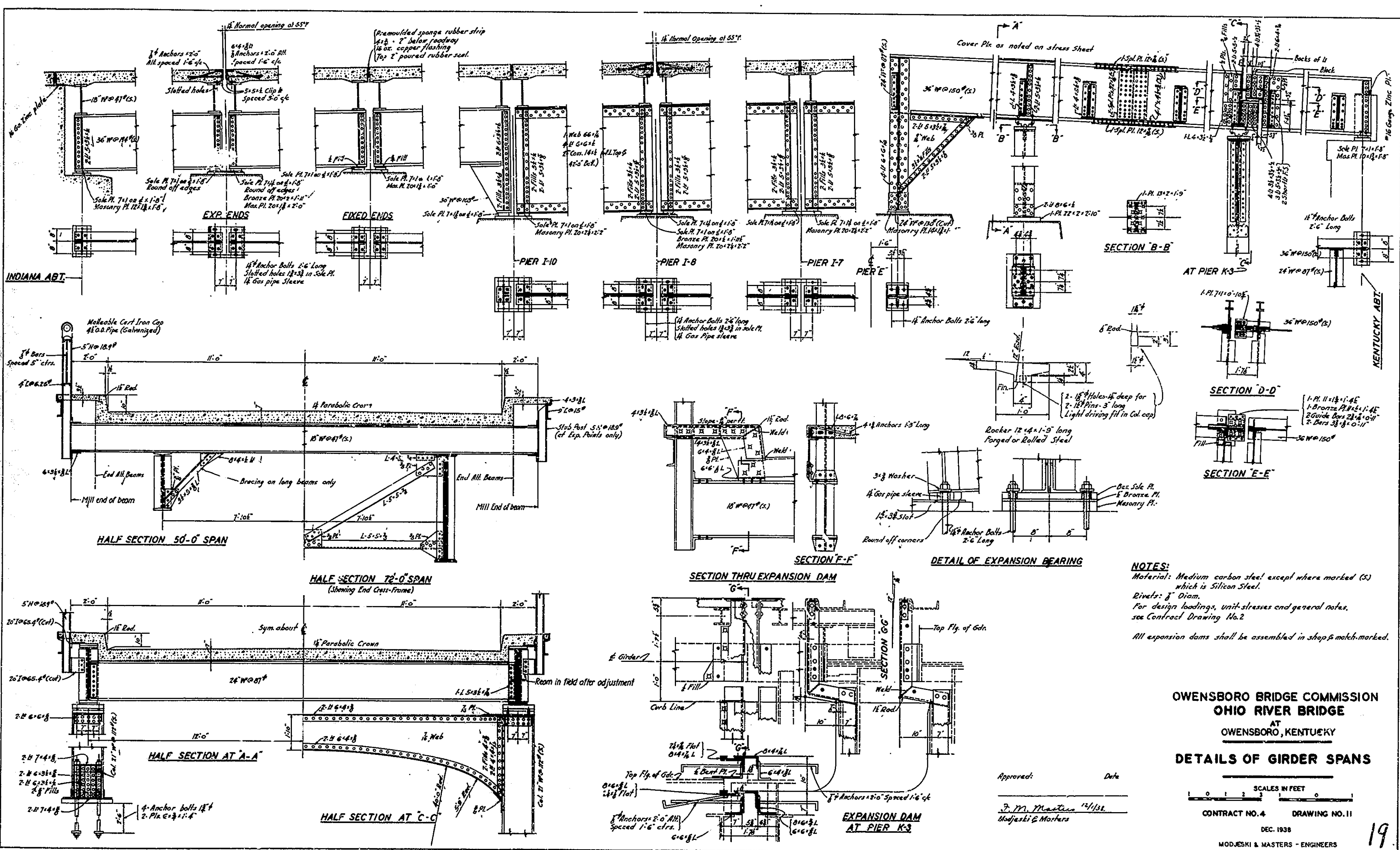
SCALE IN FEET  
 0 1 2 3 4  
 CONTRACT NO. 4 DRAWING NO. 10  
 DEC. 1938  
 MODJESKI & MASTERS - ENGINEERS

Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 F. M. Modjeski 12/1/38  
 Modjeski & Masters.

THIS DRAWING REVISED APRIL 1940  
 TO SHOW THE WORK  
**AS CONSTRUCTED**

18





**NOTES:**  
 Material: Medium carbon steel except where marked (S) which is Silicon Steel.  
 Rivets: 3" Diam.  
 For design loadings, unit stresses and general notes, see Contract Drawing No. 2.  
 All expansion dams shall be assembled in shop & match-marked.

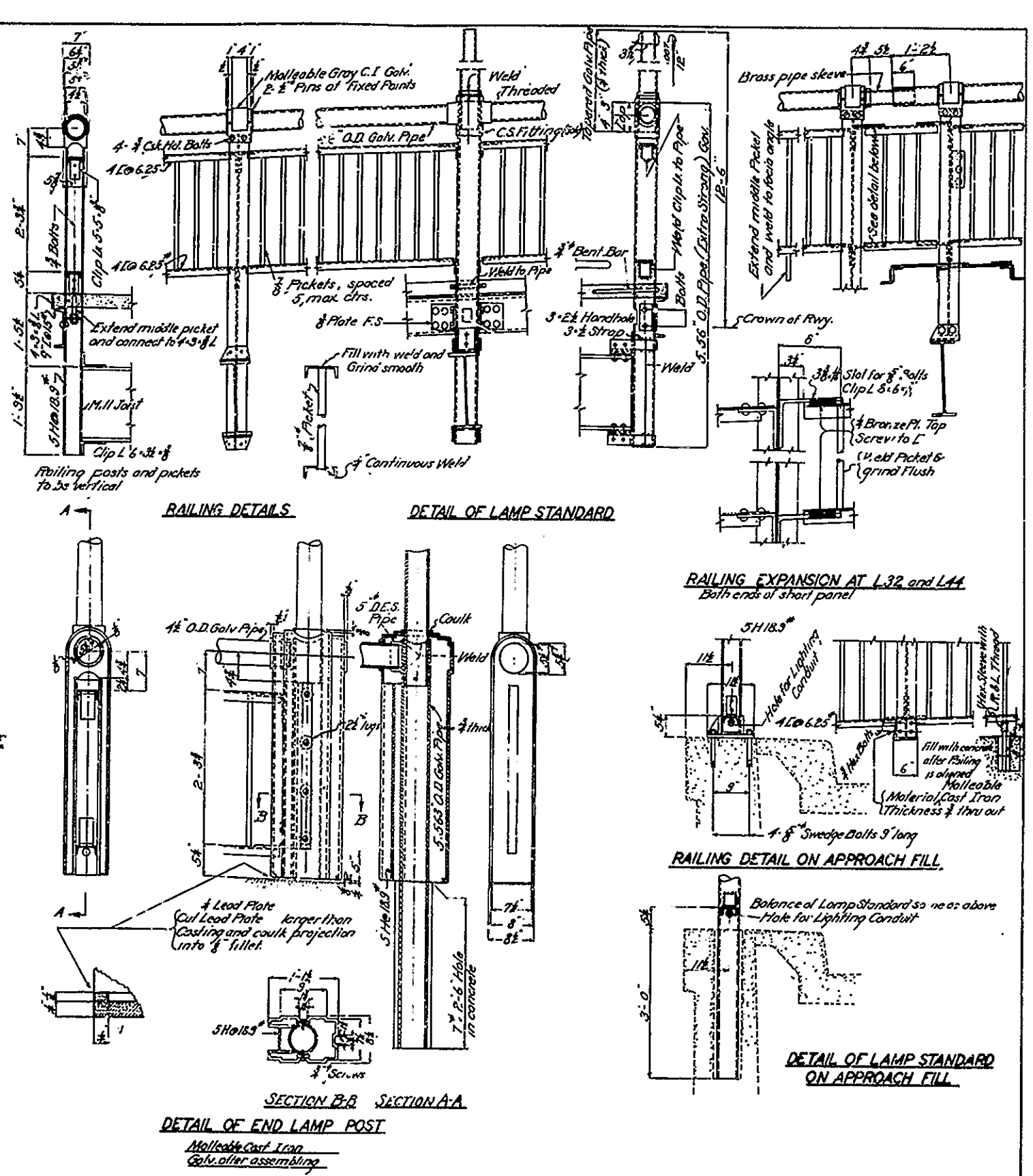
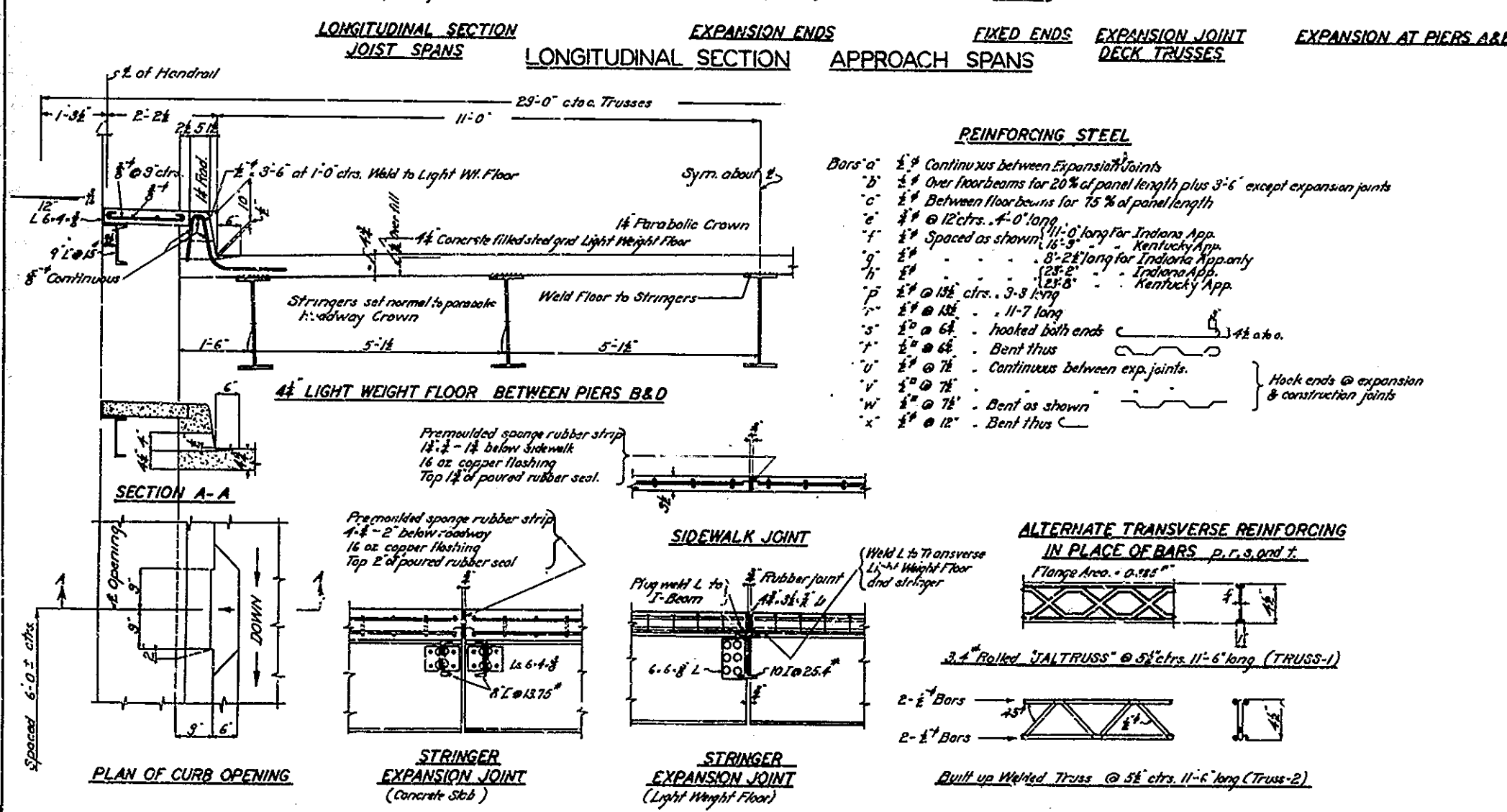
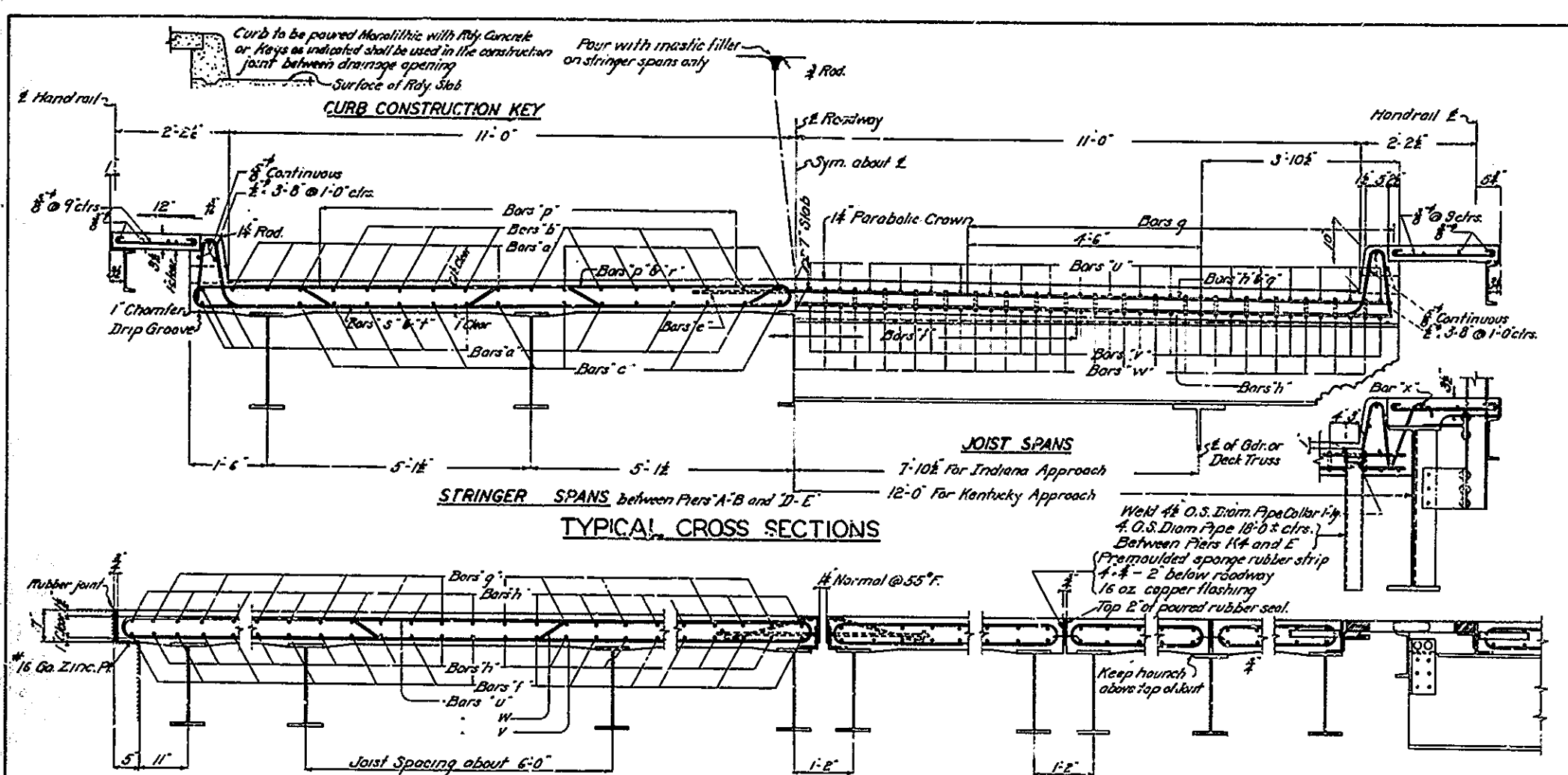
**OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT OWENSBORO, KENTUCKY  
 DETAILS OF GIRDER SPANS**

Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 J. M. Masters 12/13/38  
 Modjeski & Masters

SCALES IN FEET  
 0 1 2 3 4 5 6 7 8 9 10  
 CONTRACT NO. 4 DRAWING NO. 11

DEC. 1938  
 MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED



**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**ROADWAY AND**  
**MISCELLANEOUS DETAILS**

Approved  
 J. M. MacLean 11/15/38  
 Modjeski & Masters

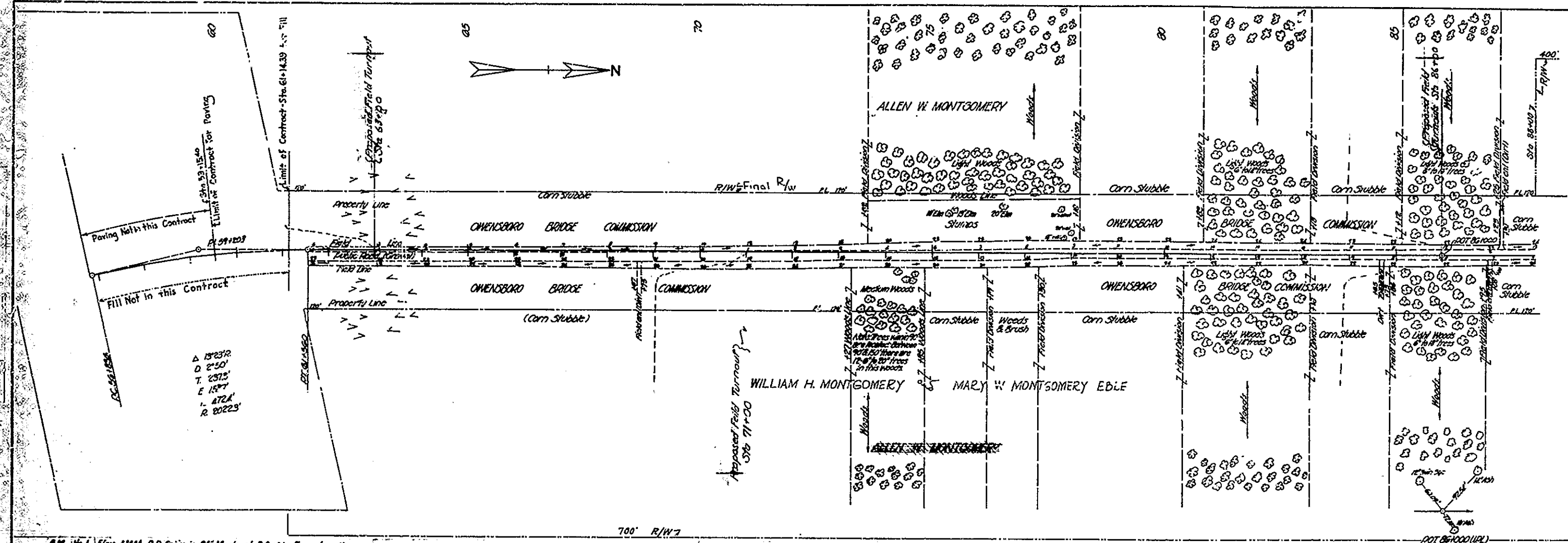
0 1 2  
 SCALES IN FEET

CONTRACT NO. 4 DRAWING NO. 12  
 NOV. 1938

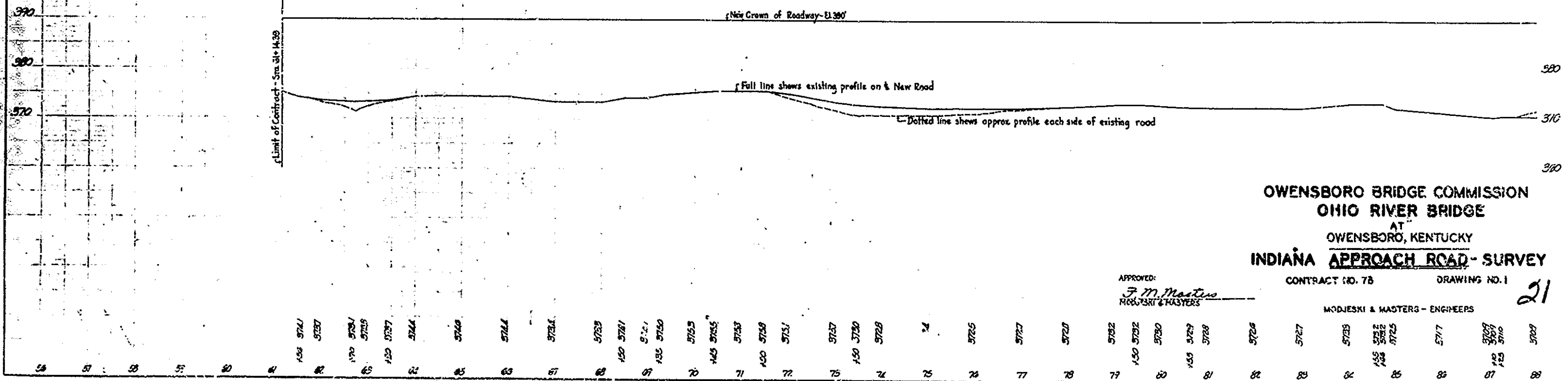
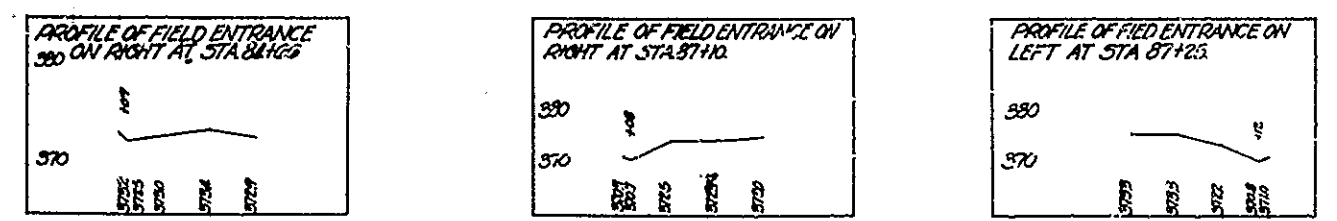
MODJESKI & MASTERS - ENGINEERS

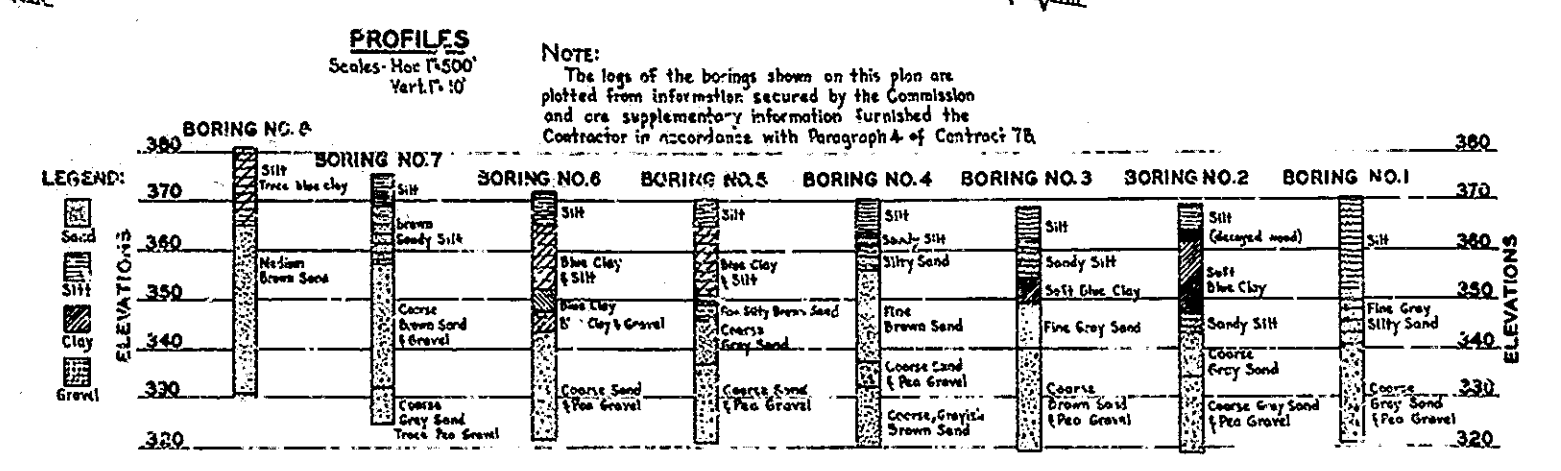
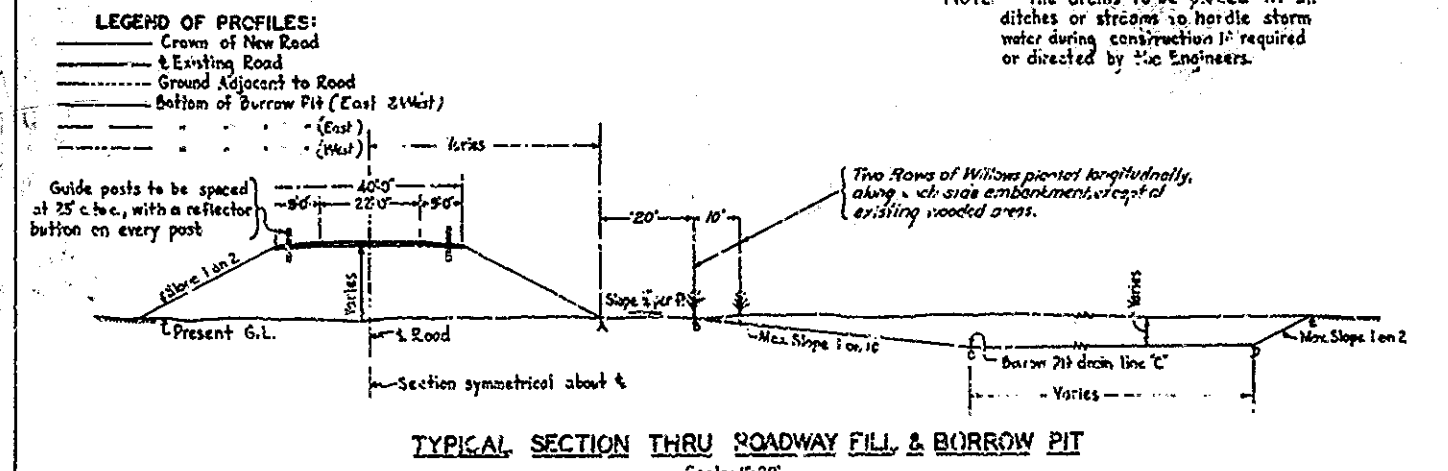
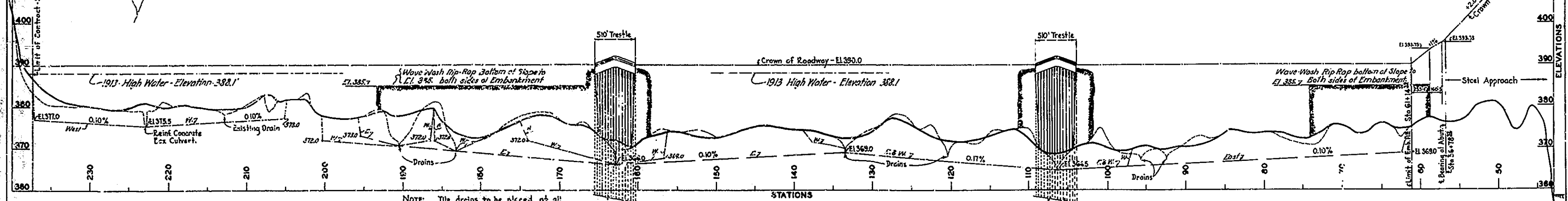
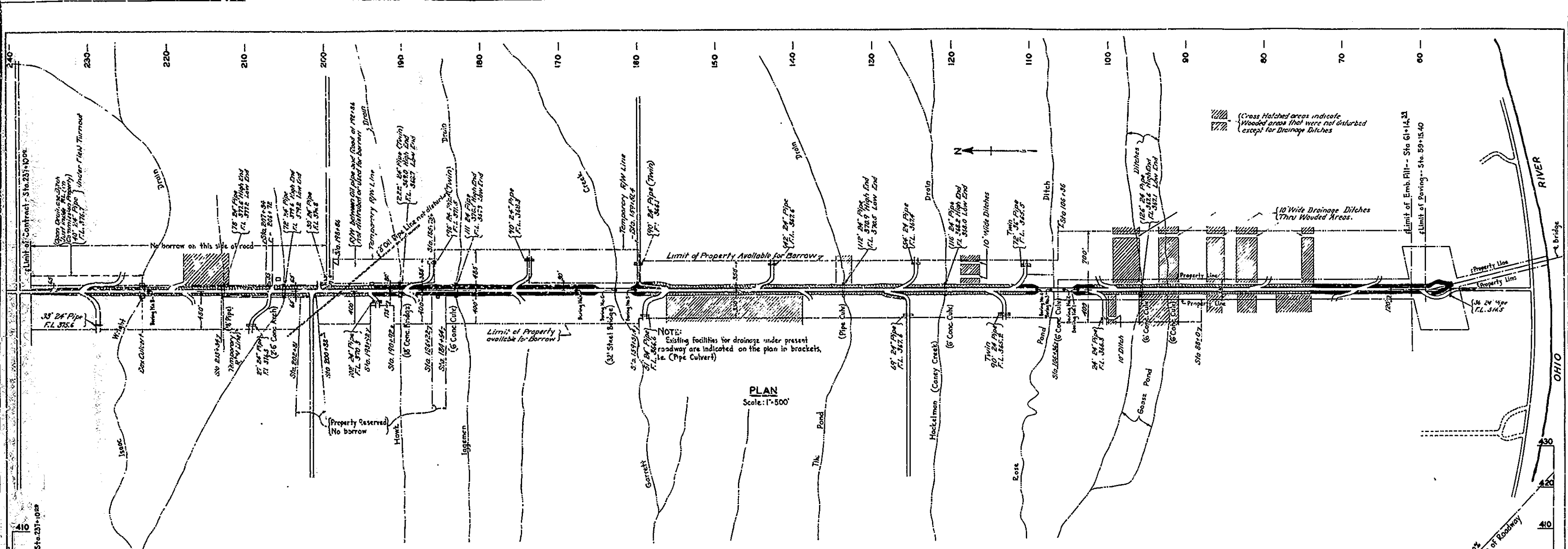
THIS DRAWG. REVISED APRIL 1940  
 TO SHOW THE WORK  
**AS CONSTRUCTED**

20



- B.M. No. 1 Elev. 380.4 P.R. Spike in 24" Maple at D.S. side Ferry Landing.
- B.M. (No. 2) Elev. 375.94 Nail in Side of Wood (100' Left of Sta 56+78.32)
- B.M. No. 2 Elev. 373.85 Nail Spike in 40' Elm 725' L. Sta 53+00.
- B.M. No. 3 Elev. 372.15 " " " 30' Cottonwood 130' R. Sta 74+00.
- B.M. No. 4 Elev. 371.62 " " " 30' Elm 7' S. R. Sta 88+06.



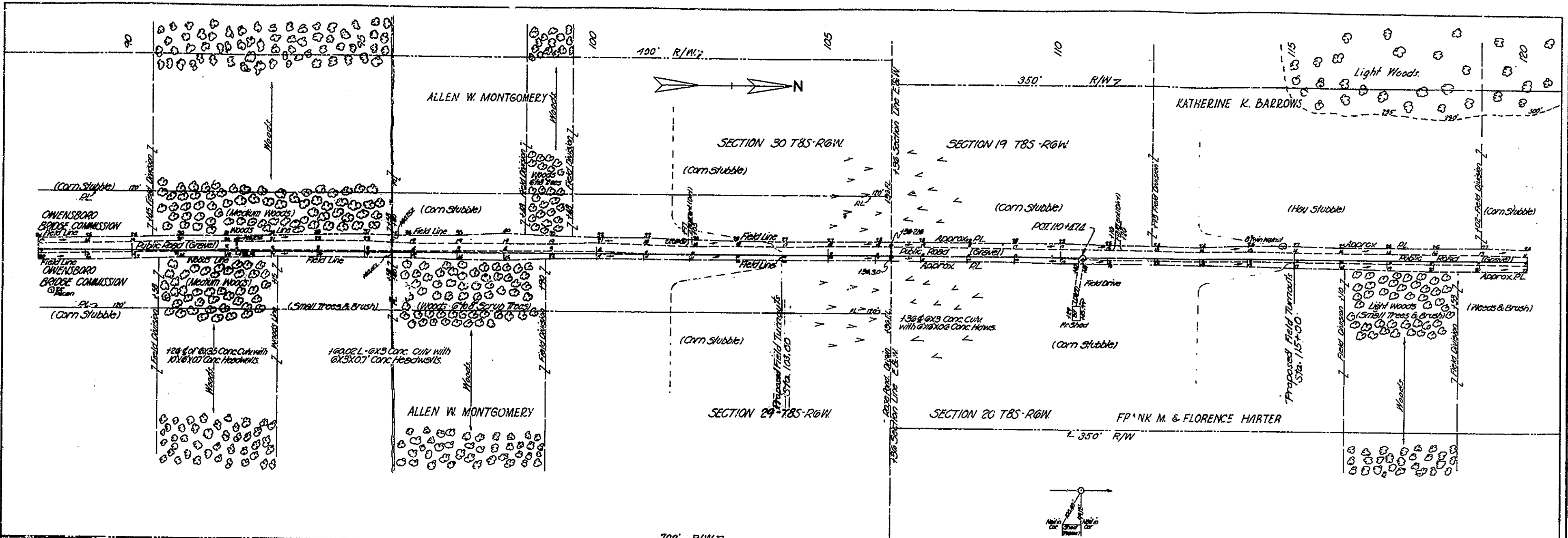


**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
AT  
OWENSBORO, KENTUCKY  
**INDIANA APPROACH ROAD**  
**GEN'L PLAN, PROFILE & BORINGS**

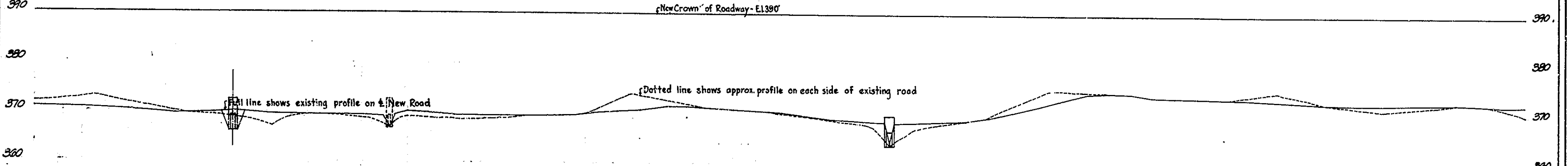
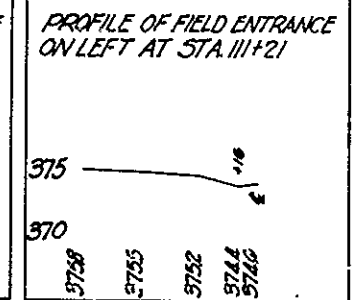
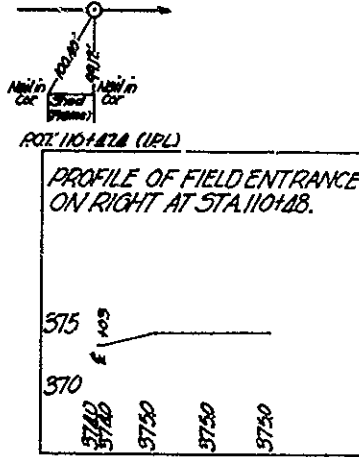
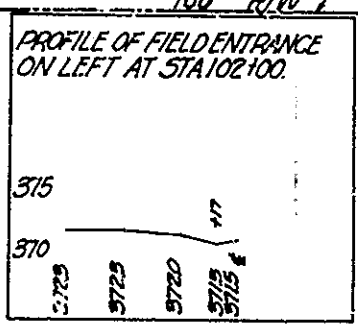
CONTRACT NO. 7B SUPPL. DRAWING NO. 1  
JUNE 1939  
MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED AUG. 1940 TO SHOW THE WORK AS CONSTRUCTED





B.M. No. 5 Elev. 370.32 Roof Spike in 16" Twin Collarwood 173' L., Sta. 99+56.  
 B.M. No. 6 " 372.65 " " 20" Collarwood 131' L., Sta. 116+66.



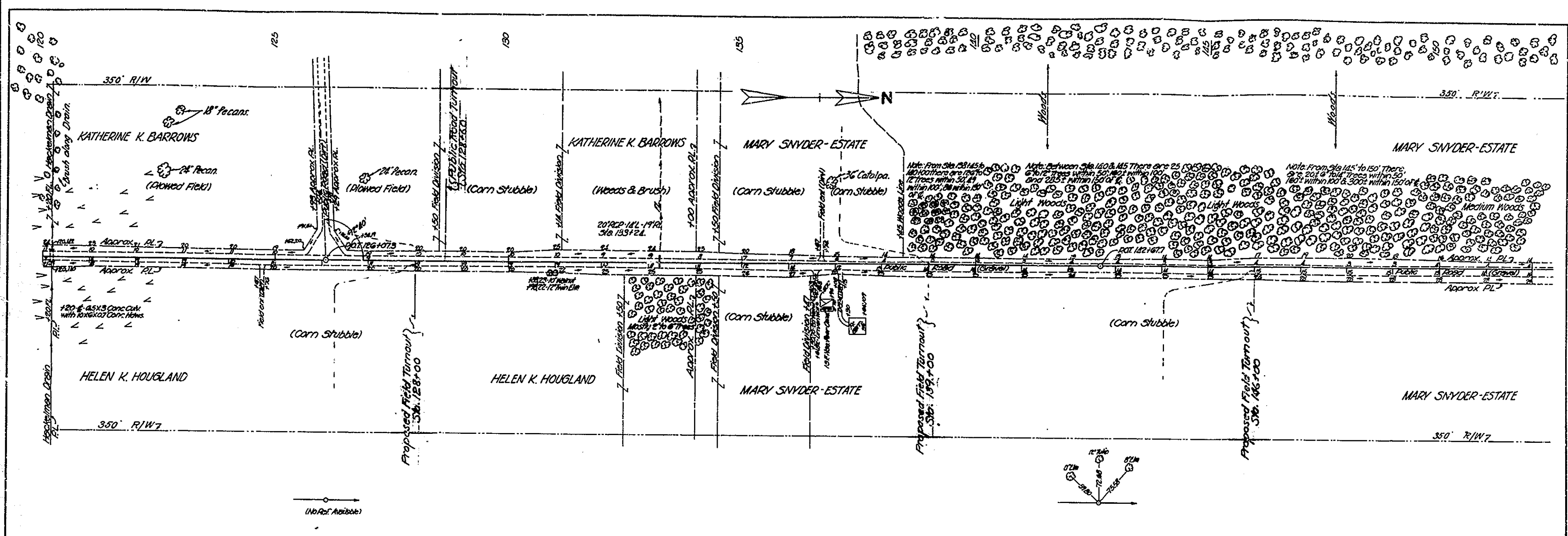
**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
 OWENSBORO, KENTUCKY  
**INDIANA APPROACH ROAD - SURVEY**  
 CONTRACT NO. 78      DRAWING NO. 2

APPROVED:  
*F. M. Masters*  
 ROJESKI & MASTERS

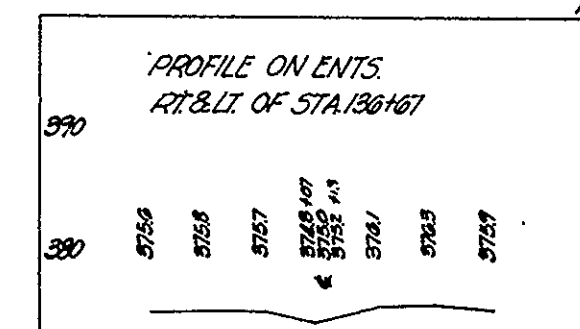
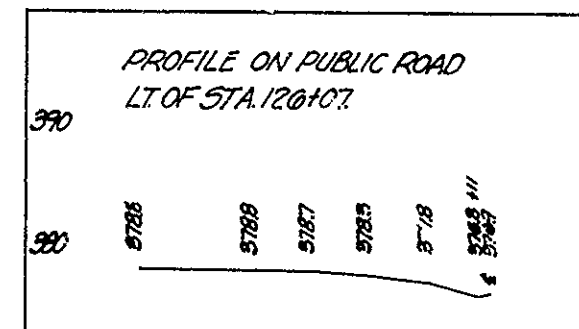
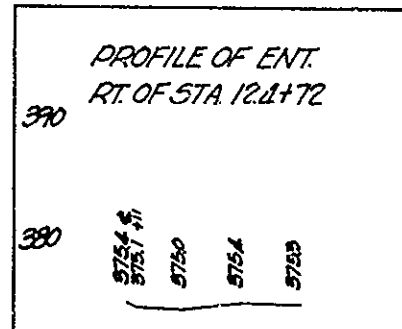
MODJESKI & MASTERS - ENGINEERS

23

5707	5707	5702	5696	5699	5700	5696	5694	5696	5692	5694	5695	5697	5698	5701	5705	5708	5714	5715	5709	5709	5697	5685	5685	5685	5719	5727	5727	5740	5746	5746	5745	5739	5736	5734	5732	5720	5728	5725	5725	5723	5723	5722	5724	5724	5722	5720	5720																																																																	
88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200



B.M. No. 7. Elev. 373.57' Boat Spike in 32' Elm 158' L, Sta. 126+90.  
 B.M. No. 8. " 376.76 " " 50' Catalpa 180' L, Sta. 136+62.  
 B.M. No. 9. " 372.04 " " 20' Oak 173' L, Sta. 148+10.



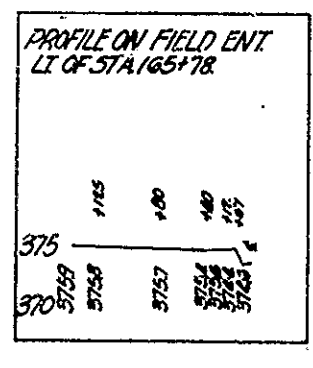
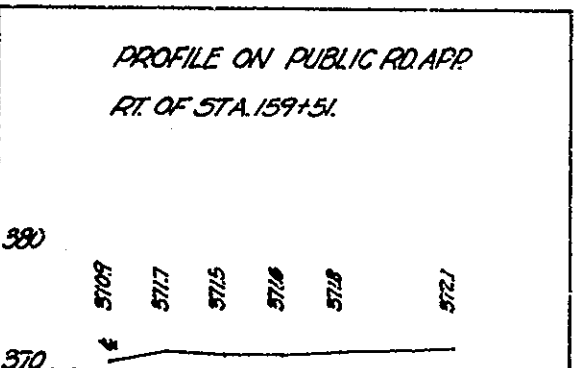
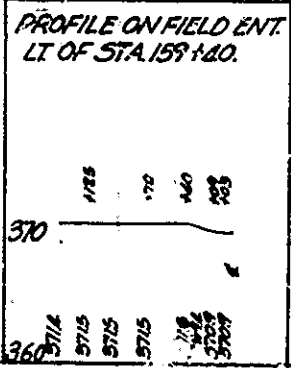
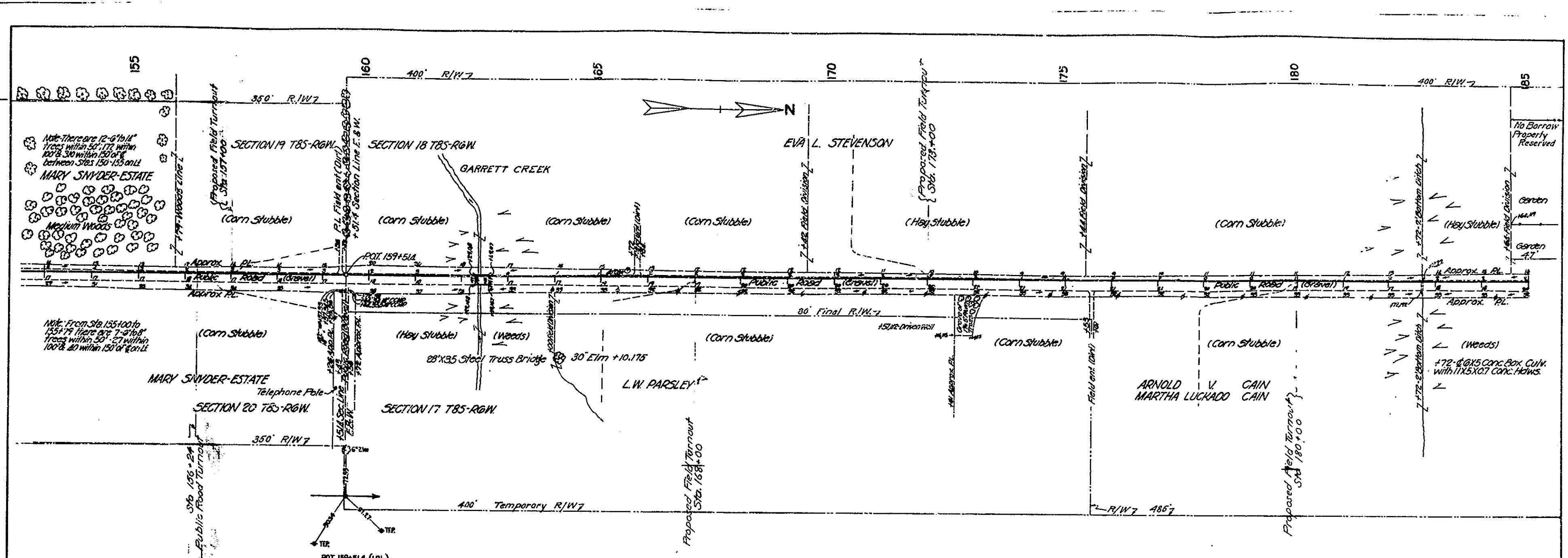
OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT  
 OWENSBORO, KENTUCKY  
 INDIANA APPROACH ROAD - SURVEY  
 CONTRACT NO. 78 DRAWING NO. 3

APPROVED:  
*F. M. Masters*  
 MODJESKI & MASTERS

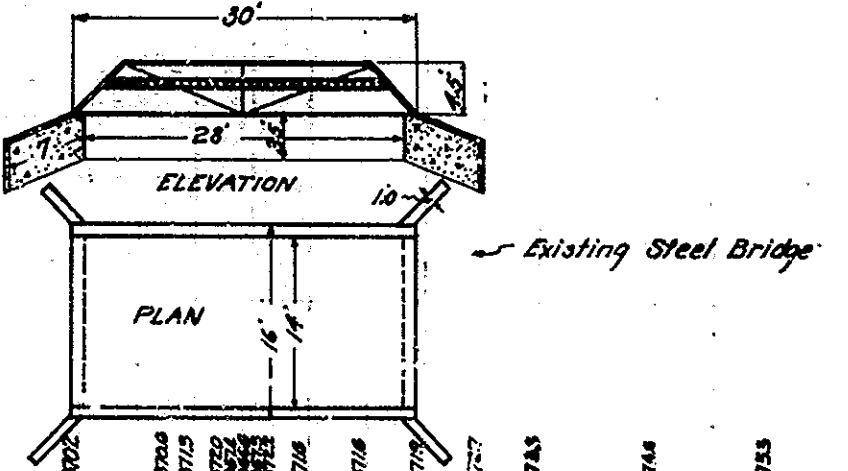
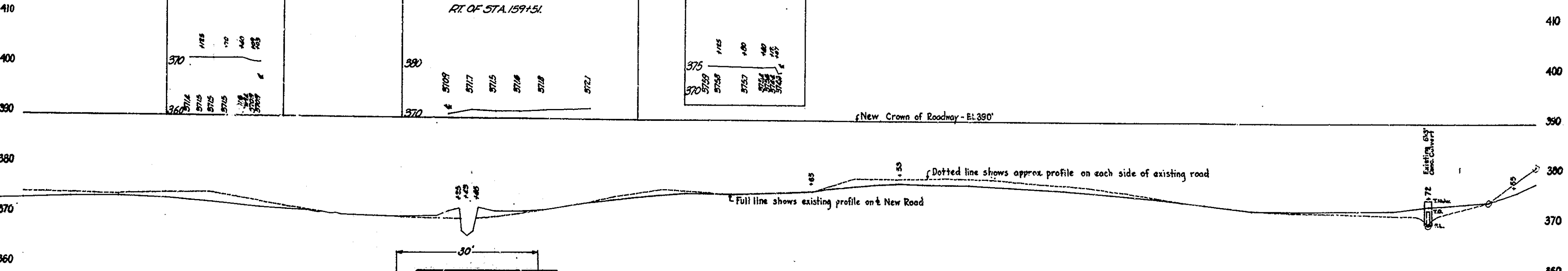
MODJESKI & MASTERS - ENGINEERS

24

120	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
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BM No. 10 Elev. 370.78 Boat Spike in 30' Elm. 175' R. Sta. 164+10  
 B.M. No. 11 Elev. 378.13 " " 10" Wild Plum. 105' R. Sta. 172+72



OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT  
 OWENSBORO, KENTUCKY  
 INDIANA APPROACH ROAD-SURVEY  
 CONTRACT NO. 78 DRAWING NO. 4

APPROVED:  
*F. M. Master*  
 MODJESKI & MASTERS

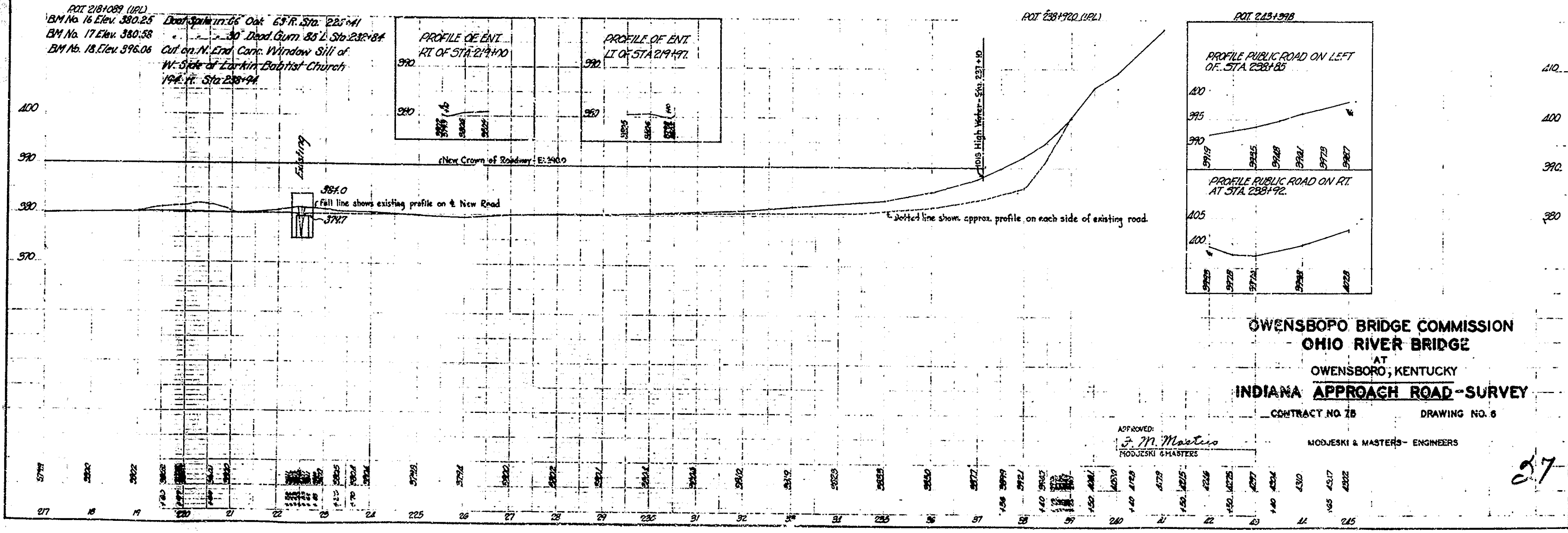
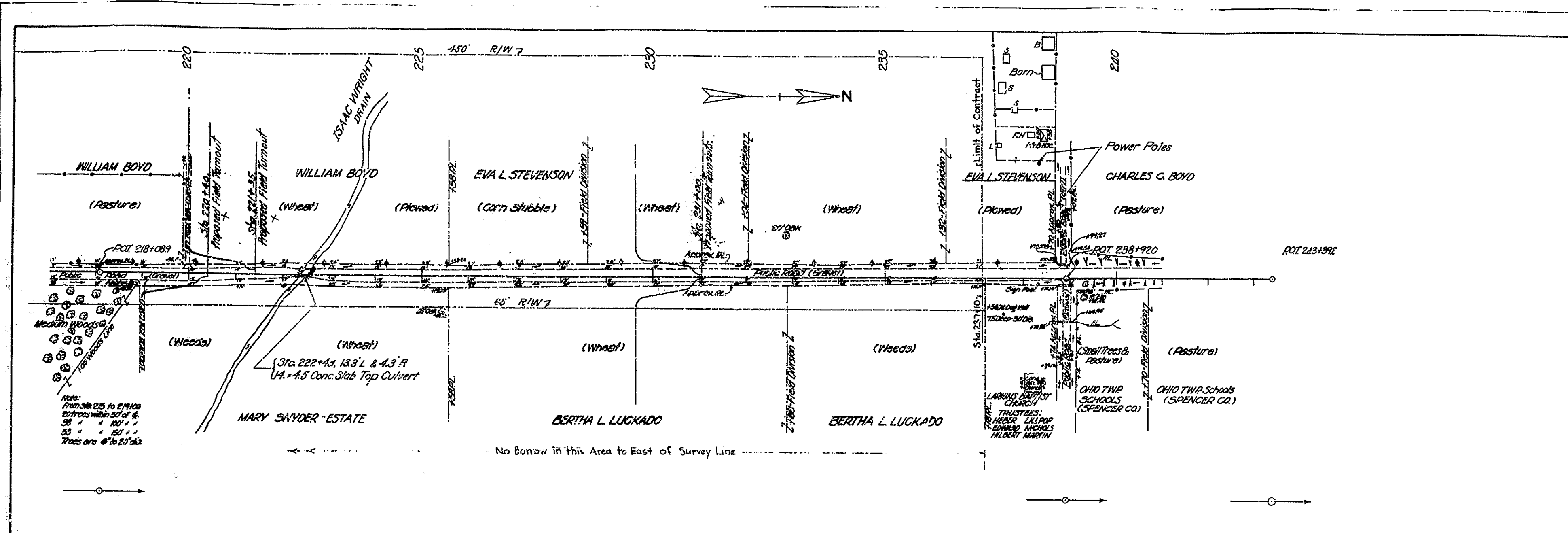
MODJESKI & MASTERS - ENGINEERS

25

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153	54	155	56	57	58	59	160	61	62	63	64	65	66	67	68	69	170	71	72	73	74	175	76	77	78	79	180	81	82	83	84	185	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100







OWENSBORO BRIDGE COMMISSION  
 OHIO RIVER BRIDGE  
 AT  
 OWENSBORO, KENTUCKY  
**INDIANA APPROACH ROAD - SURVEY**  
 CONTRACT NO. 7B DRAWING NO. 6

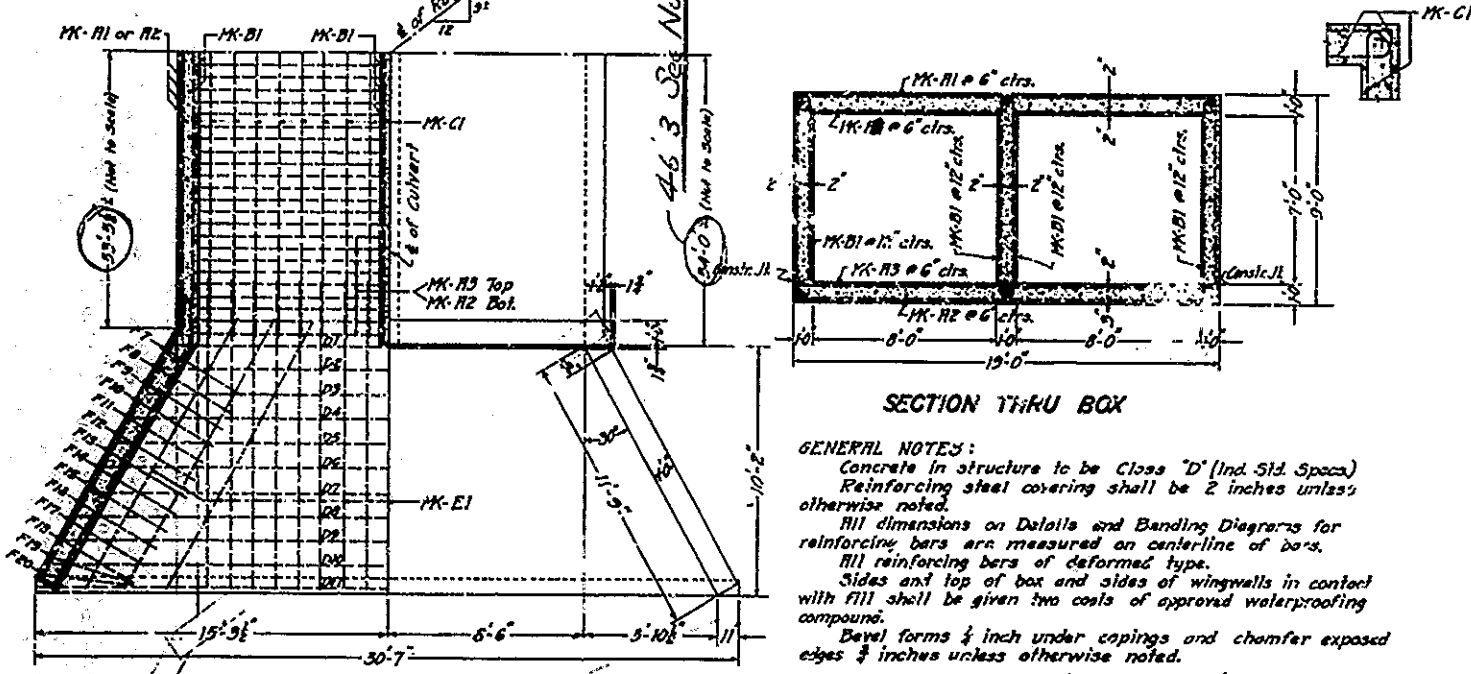
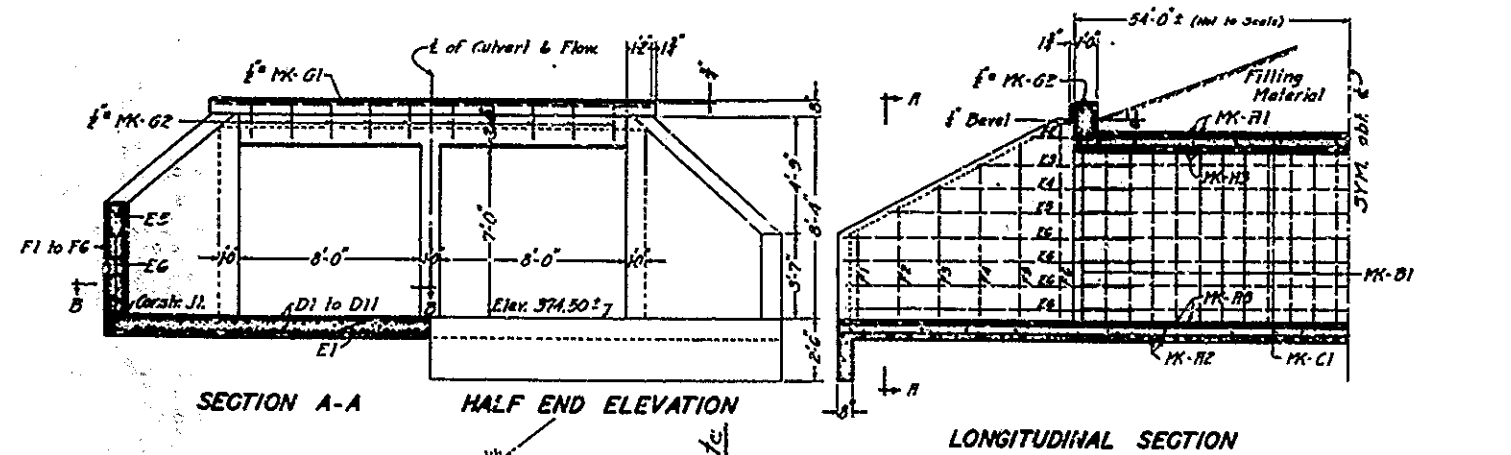
APPROVED:  
*J. M. Masters*  
 MODJESKI & MASTERS

MODJESKI & MASTERS - ENGINEERS

27







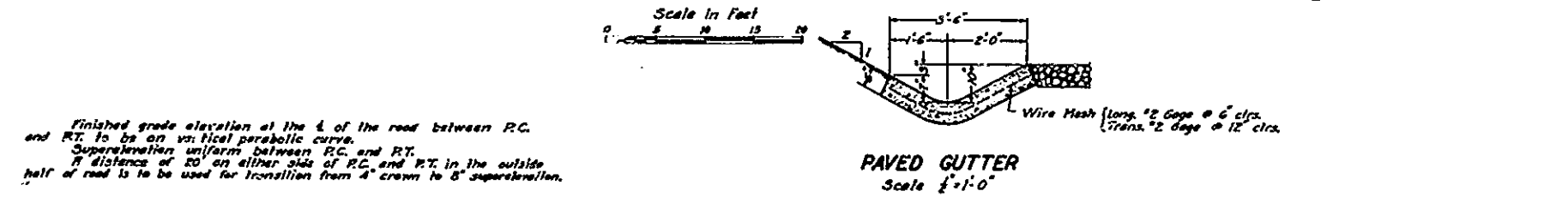
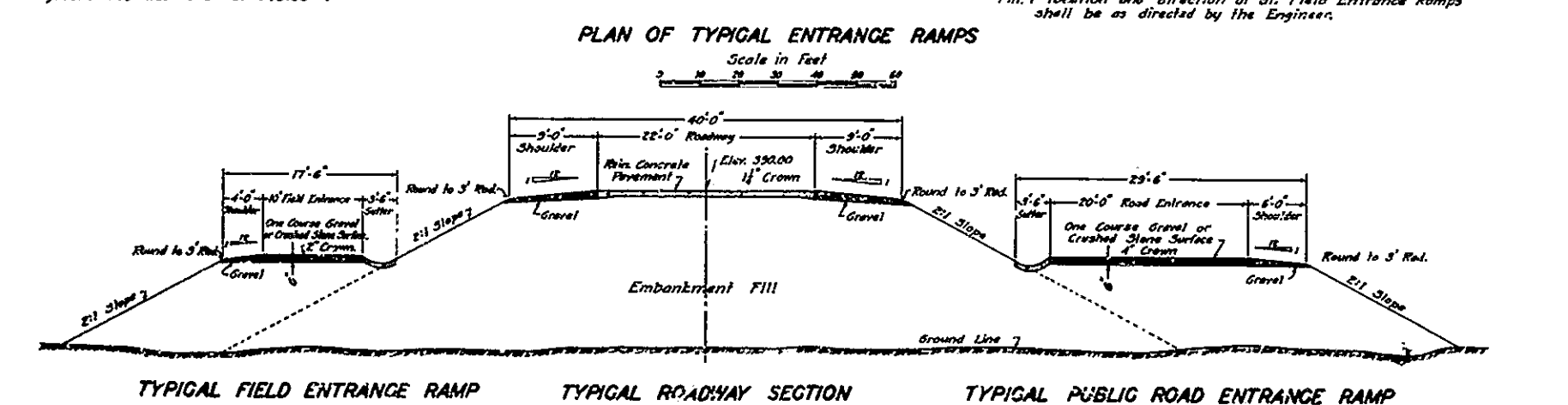
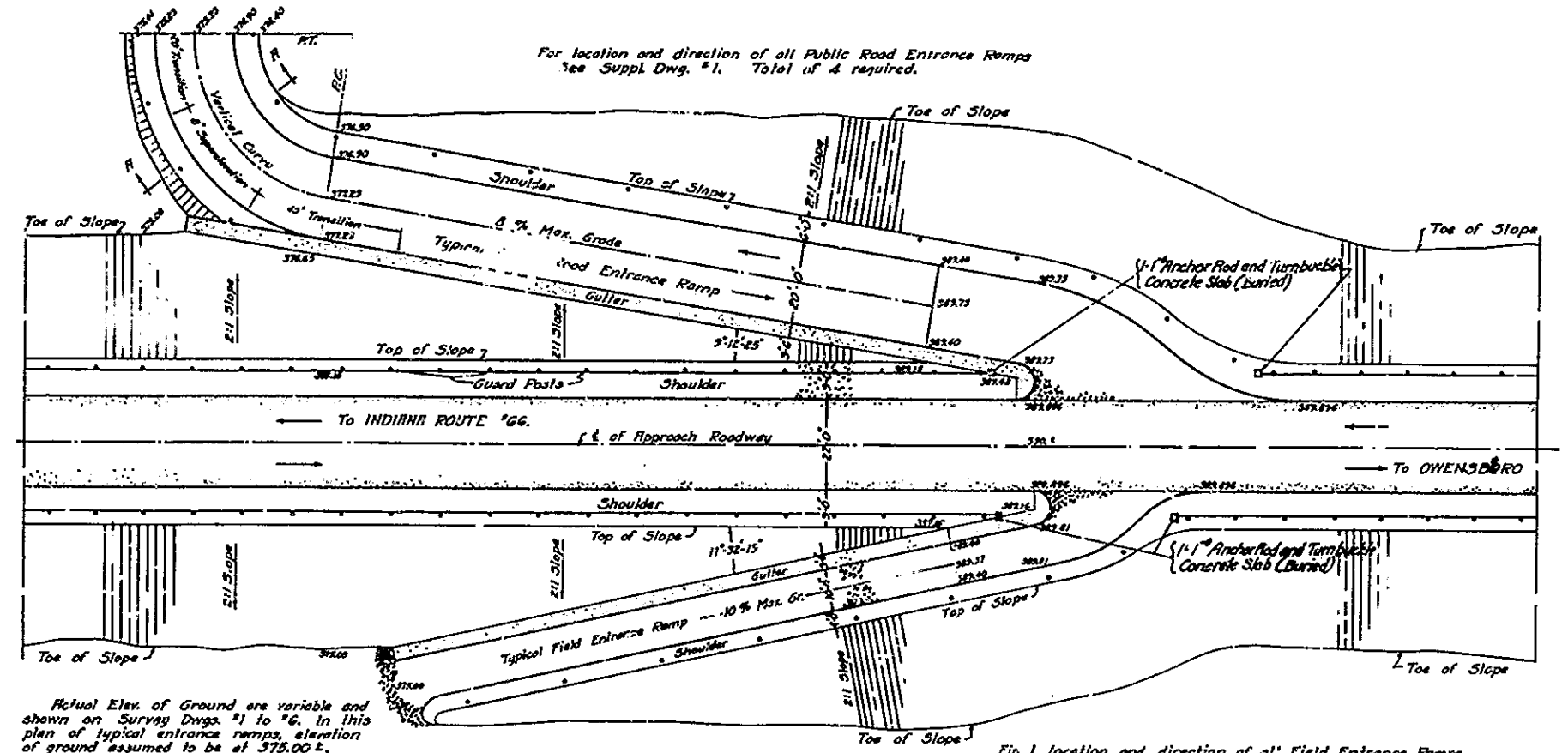
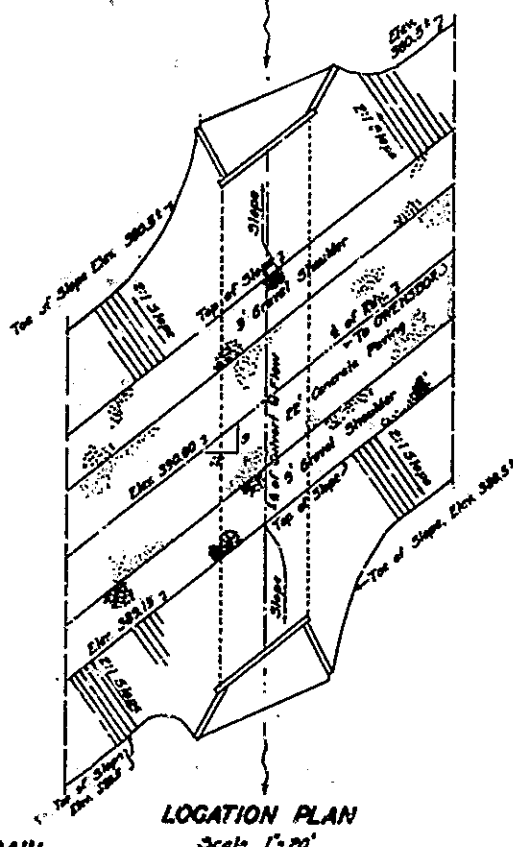
**GENERAL NOTES:**  
 Concrete in structure to be Class 'D' (Ind. Std. Spec.)  
 Reinforcing steel covering shall be 2 inches unless otherwise noted.  
 All dimensions on Details and Banding Diagrams for reinforcing bars are measured on centerline of bars.  
 All reinforcing bars of deformed type.  
 Sides and top of box and sides of wingwalls in contact with fill shall be given two coats of approved waterproofing compound.  
 Devel forms 1/2 inch under copings and chamfer exposed edges 1/2 inch unless otherwise noted.

Mark Number	Stock	Banding Diagram	Mark Number	Stock	Banding Diagram
F1	1/2" x 5'-0"	[Diagram]	F1	1/2" x 5'-0"	Straight
F2	1/2" x 2'-0"	[Diagram]	F2	1/2" x 2'-0"	[Diagram]
F3	1/2" x 2'-0"	[Diagram]	F3	1/2" x 2'-0"	[Diagram]
F4	1/2" x 2'-0"	[Diagram]	F4	1/2" x 2'-0"	[Diagram]
F5	1/2" x 2'-0"	[Diagram]	F5	1/2" x 2'-0"	[Diagram]
F6	1/2" x 2'-0"	[Diagram]	F6	1/2" x 2'-0"	[Diagram]
F7	1/2" x 2'-0"	[Diagram]	F7	1/2" x 2'-0"	[Diagram]
F8	1/2" x 2'-0"	[Diagram]	F8	1/2" x 2'-0"	[Diagram]
F9	1/2" x 2'-0"	[Diagram]	F9	1/2" x 2'-0"	[Diagram]
F10	1/2" x 2'-0"	[Diagram]	F10	1/2" x 2'-0"	[Diagram]
F11	1/2" x 2'-0"	[Diagram]	F11	1/2" x 2'-0"	[Diagram]
F12	1/2" x 2'-0"	[Diagram]	F12	1/2" x 2'-0"	[Diagram]
F13	1/2" x 2'-0"	[Diagram]	F13	1/2" x 2'-0"	[Diagram]
F14	1/2" x 2'-0"	[Diagram]	F14	1/2" x 2'-0"	[Diagram]
F15	1/2" x 2'-0"	[Diagram]	F15	1/2" x 2'-0"	[Diagram]
F16	1/2" x 2'-0"	[Diagram]	F16	1/2" x 2'-0"	[Diagram]
F17	1/2" x 2'-0"	[Diagram]	F17	1/2" x 2'-0"	[Diagram]
F18	1/2" x 2'-0"	[Diagram]	F18	1/2" x 2'-0"	[Diagram]
F19	1/2" x 2'-0"	[Diagram]	F19	1/2" x 2'-0"	[Diagram]
F20	1/2" x 2'-0"	[Diagram]	F20	1/2" x 2'-0"	[Diagram]
F21	1/2" x 2'-0"	[Diagram]	F21	1/2" x 2'-0"	[Diagram]
F22	1/2" x 2'-0"	[Diagram]	F22	1/2" x 2'-0"	[Diagram]
F23	1/2" x 2'-0"	[Diagram]	F23	1/2" x 2'-0"	[Diagram]
F24	1/2" x 2'-0"	[Diagram]	F24	1/2" x 2'-0"	[Diagram]
F25	1/2" x 2'-0"	[Diagram]	F25	1/2" x 2'-0"	[Diagram]
F26	1/2" x 2'-0"	[Diagram]	F26	1/2" x 2'-0"	[Diagram]

**SUMMARY OF QUANTITIES FOR ONE CULVERT**  
 Class 'D' Concrete 270 cu yds.  
 Reinforcing Steel 58,200 lbs.

**NOTE:**  
 For revised details of Isaac Wright Drain, see drawing entitled Field Drain to Isaac Wright Drain Culvert dated Nov. 1938.

**REINFORCED CONCRETE BOX CULVERT AT ISAAC WRIGHT DRAIN**  
 Scale in Feet



**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY.**  
**TYPICAL RAMP & CULVERT DETAILS**

APPROVED:  
*F. M. Masten*  
 MODJESKI & MASTERS

CONTRACT NO. 7-B. DRAWING NO. 8.

JUNE 1939.

MODJESKI & MASTERS - ENGINEERS.

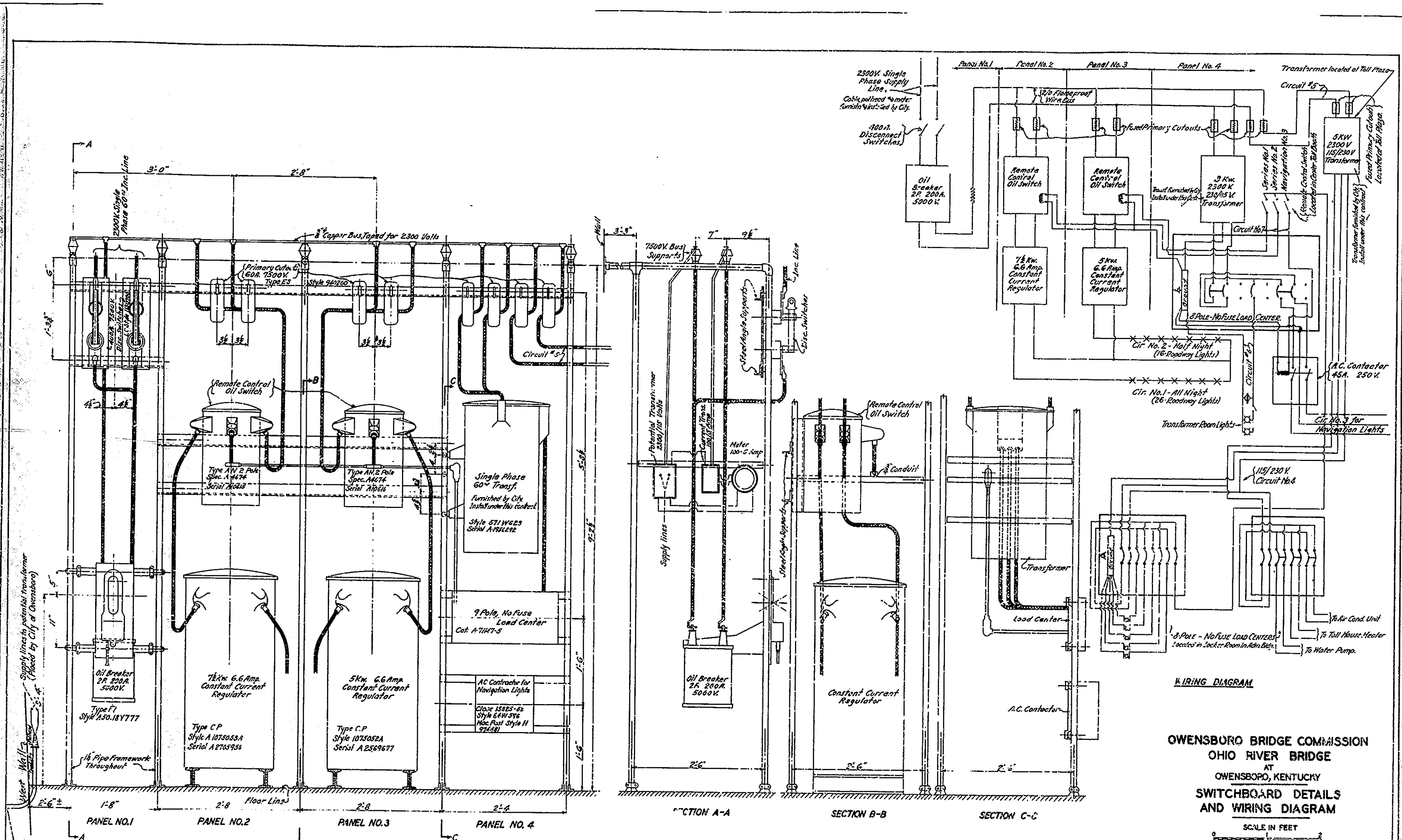
THIS DWG. REVISED SEPT 1940 TO SHOW THE WORK AS CONSTRUCTED

29









**OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY  
SWITCHBOARD DETAILS  
AND WIRING DIAGRAM**

SCALE IN FEET  
0 2

CONTRACT NO. 8 DRAWING NO. 3  
NOV. 1938  
MOJZEKI & MASTERS - ENGINEERS

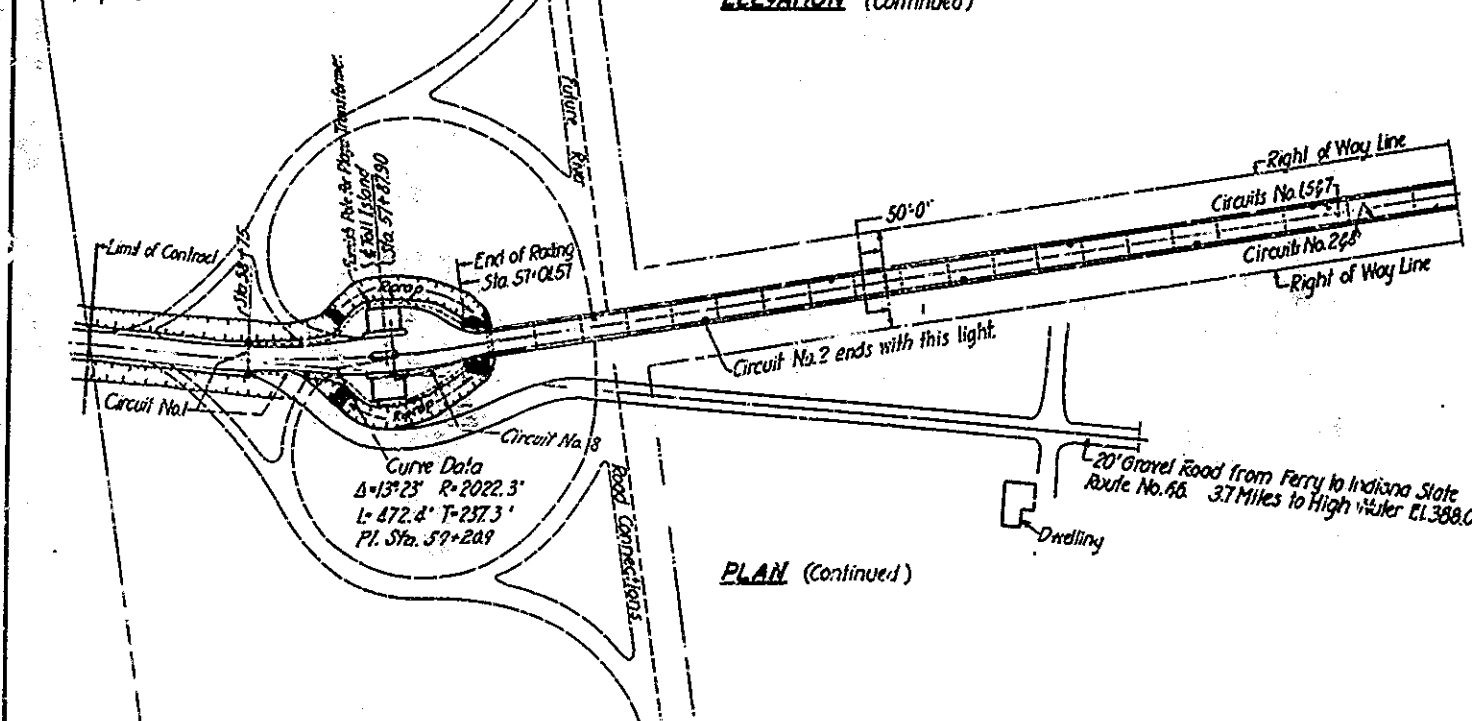
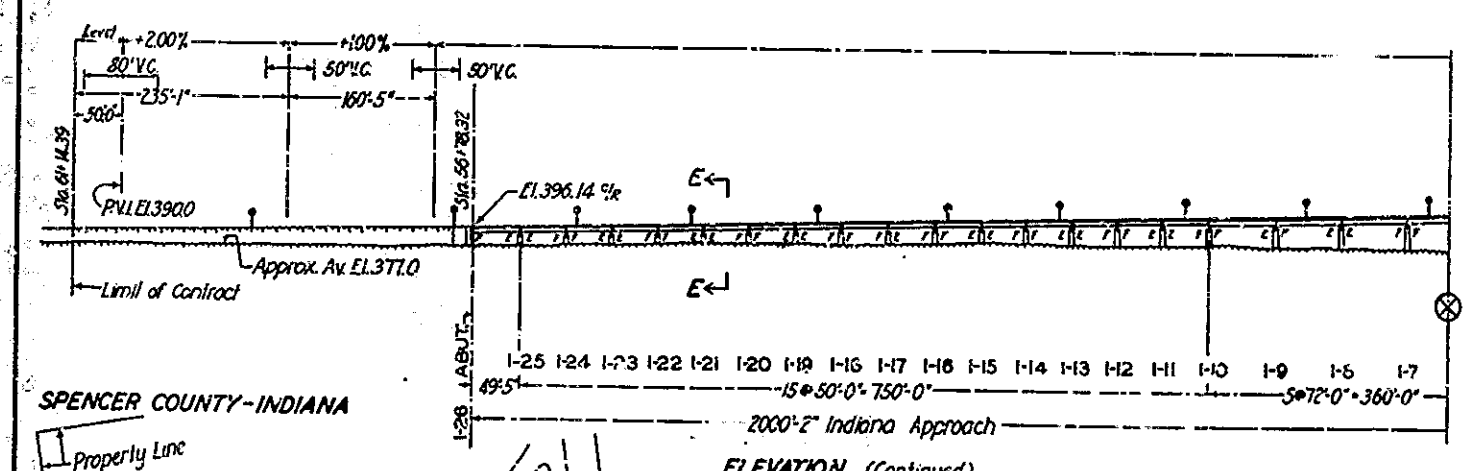
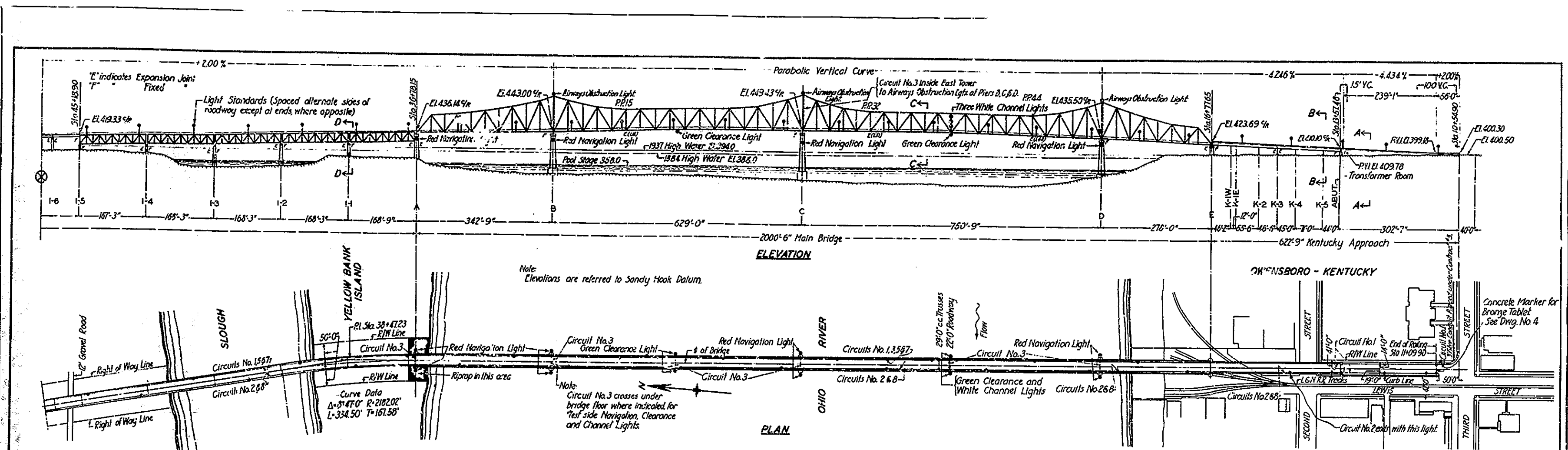
34

THIS DRAWING REVISED SEPT. 1940  
TO SHOW THE WORK  
AS CONSTRUCTED

**SWITCHBOARD DETAILS**  
Contractor to detail Switch Board opposite board of this view.

All equipment shown on this sheet furnished by Westinghouse  
Electric and Mfg. Co. See General Catalogue 1937-40.

APPROVED  
F. M. Maatun  
MODJESKI & MASTERS



**EXPANSION JOINT MOVEMENTS**

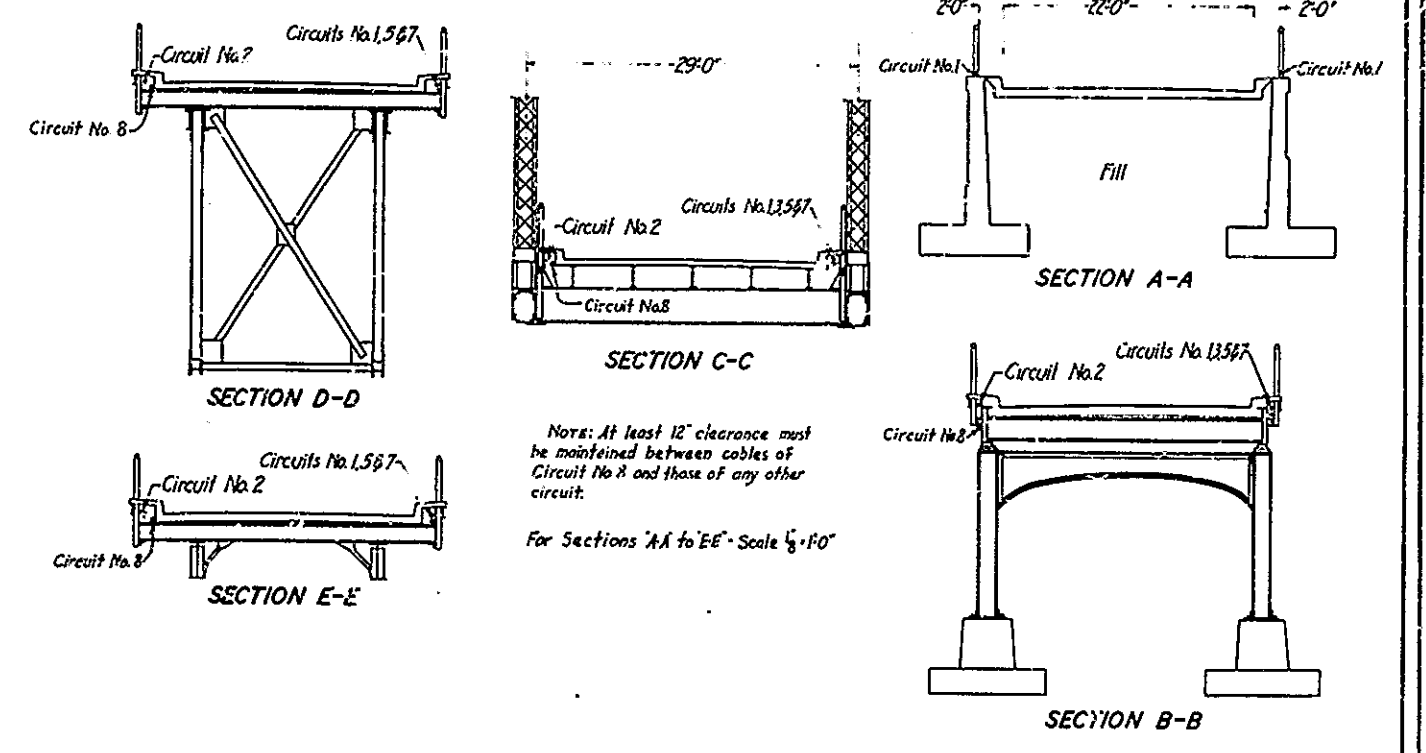
INDIANA APPROACH	
Bent 1-25-1'	Bent 1-9-1/2'
- 1-23-1'	- 1-8-1/8"
- 1-21-1'	- 1-6-1/8"
- 1-19-1'	- 1-4-2/8"
- 1-17-1'	- 1-3-2/8"
- 1-15-1'	- 1-2-2/8"
- 1-13-1'	- 1-1-2/8"
- 1-11-1'	- 1-1-2/8"

**MAIN BRIDGE**

Pier A - 3'	Pier E - 5'
Pier B - 15'-9"	Pier F - 5'
Pier C - 13'-8"	

**KENTUCKY APPROACH**

Bent 1-3-1'
-------------



**NOTES:**

PRIMARY CURRENT: 2300V, 60 Cycle, Single Phase will be furnished and connection made to the disconnect switches by Municipal Electrical Department of the City of Owensboro, Ky. City will furnish both the 115V and 500V 115-230 Volt Transformers, which contractor shall erect under this contract.

**DESCRIPTION OF LIGHTING CIRCUITS**

Circuit No. 1 - 21 Lights East Side of Bridge  
 3 Lights West

Circuit No. 2 - 16 Lights West

Circuit No. 3 - 115-230 volt multiple circuit serving clearance, navigation and channel lights and aerial beacons as follows:  
 4 Green Fresnel lens clearance lights - 100 watts each.  
 8 Red neon tube panel navigation lights - estimated 38 watts each.  
 6 White Fresnel lens channel lights - 25 watts each.  
 3 Red Fresnel lens Arrow Obstruction Lanterns - 6 lights - 200 watts each.

Circuit No. 4 - 115-230 volt multiple circuit supplying lights and equipment for line Administration Building and Toll House.

Circuit No. 5 - 2300 Volt single phase primary across bridge for Circuit No. 4.

Circuit No. 6 - Transformer Room Lights, 2-100 W. Ceiling Lights with combination wall switch & plug outlet.

Circuit No. 7 - Remote control circuit.

Circuit No. 8 - 8-Wire telephone cable from Transformer Room to Administration Building.

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**LIGHTING PLAN**

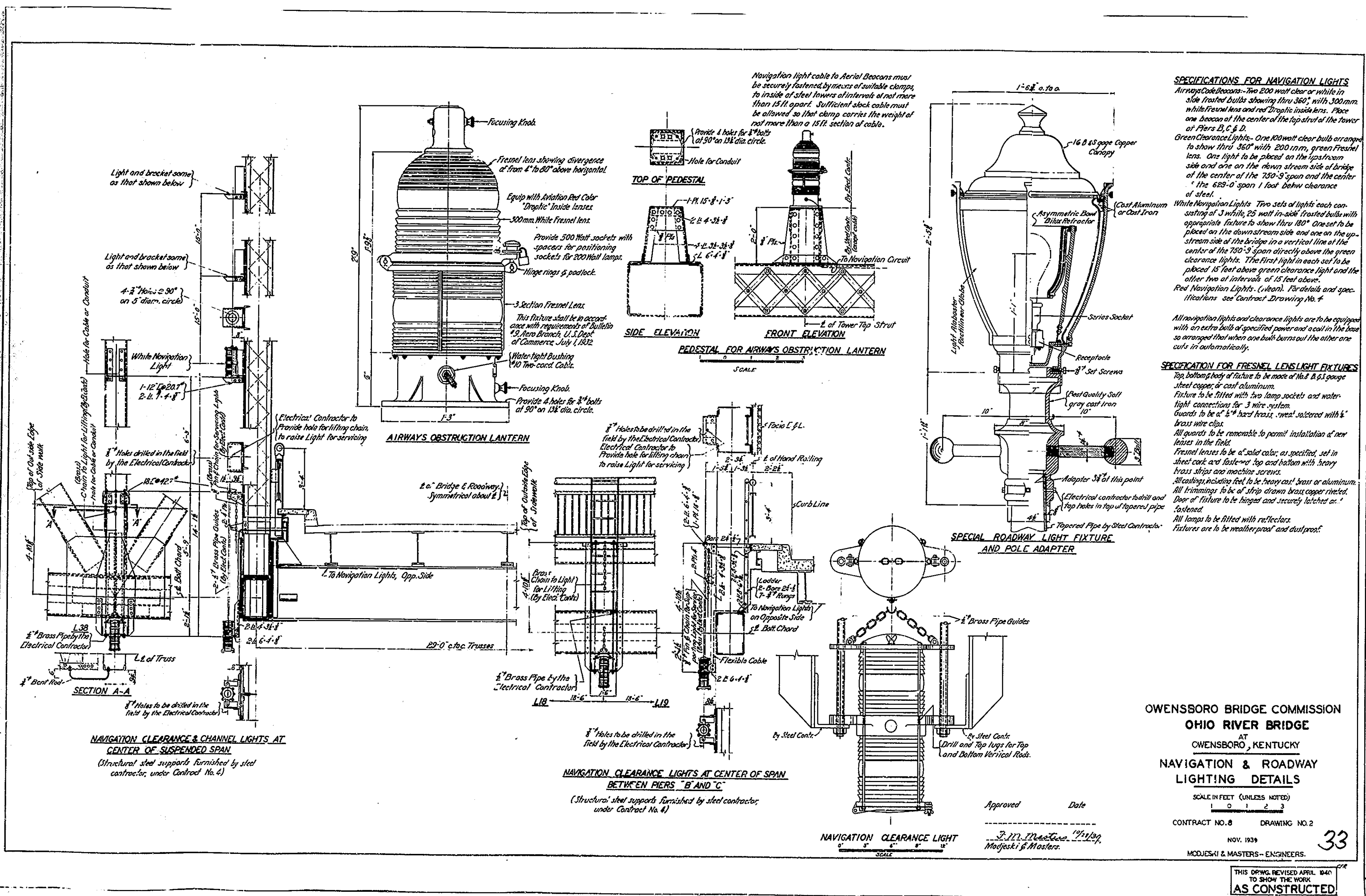
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

SCALE IN FEET (EXCEPT AS NOTED)  
 1" = 100'

CONTRACT NO. 8 DRAWING NO. 1  
 NOV. 1938  
 MODJESKI & MASTERS - ENGINEERS

THIS DRAWING REVISED APRIL 1940  
 TO SHOW THE WORK  
 AS CONSTRUCTED

32



Navigation light cable to Aerial Beacons must be securely fastened by means of suitable clamps to inside of steel towers at intervals of not more than 15 ft. Sufficient slack cable must be allowed so that clamp carries the weight of not more than a 15 ft. section of cable.

**SPECIFICATIONS FOR NAVIGATION LIGHTS**  
 Airways Obstruction Lights - Two 200 watt clear or white in side frosted bulbs showing thru 360°, with 300mm. white Fresnel lens and red D'roptic inside lens. Place one beacon of the center of the top strut of the tower of Piers B, C & D.  
 Green Clearance Lights - One 100 watt clear bulb arranged to show thru 360° with 200 mm. green Fresnel lens. One light to be placed on the upstream side and one on the down stream side of bridge of the center of the 750'-9" span and the center of the 629'-0" span 1 foot below clearance of steel.  
 White Navigation Lights - Two sets of lights each consisting of 3 white, 25 watt in-side frosted bulbs with appropriate fixture to show thru 180°. One set to be placed on the downstream side and one on the upstream side of the bridge in a vertical line at the center of the 750'-9" span directly above the green clearance lights. The first light in each set to be placed 15 feet above green clearance light and the other two at intervals of 15 feet above.  
 Red Navigation Lights - (Clear). For details and specifications see Contract Drawing No. 4.

All navigation lights and clearance lights are to be equipped with an extra bulb of specified power and a coil in the base so arranged that when one bulb burns out the other one cuts in automatically.

**SPECIFICATION FOR FRESNEL LENS LIGHT FIXTURES**  
 Top, bottom body of fixture to be made of No. 8 B & S gauge sheet copper, or cast aluminum.  
 Fixture to be fitted with two lamp sockets and water-tight connections for 3 wire system.  
 Guards to be of 1/2" hard brass, "nest" soldered with 1/2" brass wire clips.  
 All guards to be removable to permit installation of new lenses in the field.  
 Fresnel lenses to be of solid color, as specified, set in sheet cork and fastened top and bottom with heavy brass strips and machine screws.  
 All trimmings to be of strip drawn brass copper riveted.  
 Door of fixture to be hinged and securely latched as fastened.  
 All lamps to be fitted with reflectors.  
 Fixtures are to be weather proof and dust proof.

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**NAVIGATION & ROADWAY**  
**LIGHTING DETAILS**

SCALE IN FEET (UNLESS NOTED)  
 1 0 1 2 3  
 CONTRACT NO. 8 DRAWING NO. 2  
 NOV. 1939  
 MODJESKI & MASTERS - ENGINEERS.

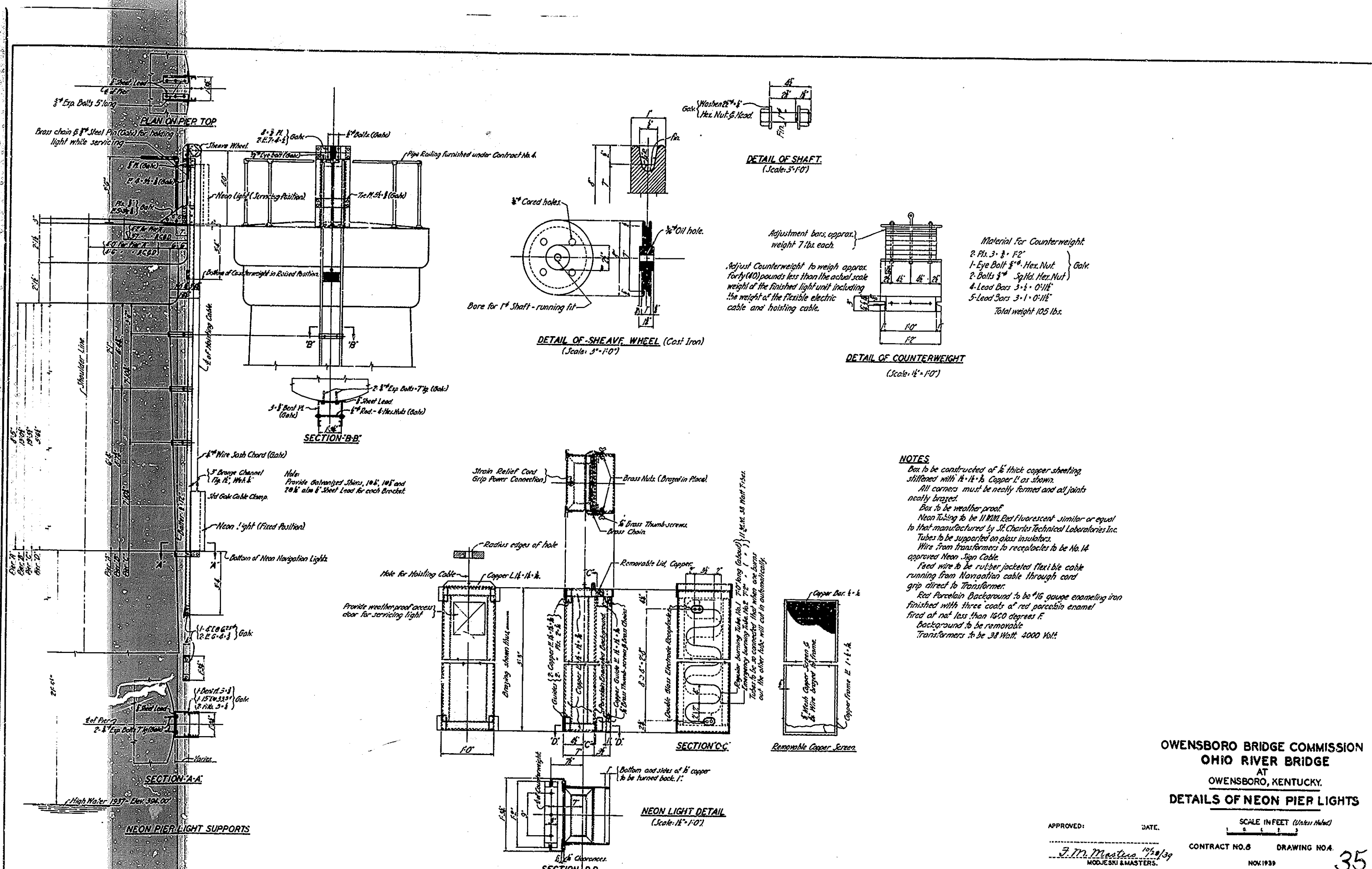
33

THIS DRAWING REVISED APRIL 1940 TO SHOW THE WORK AS CONSTRUCTED.

Approved Date  
 J. M. Masters 11/11/39  
 Modjeski & Masters.

NAVIGATION CLEARANCE LIGHT





**DETAIL OF SHAFT**  
(Scale: 3" = 1'-0")

**DETAIL OF SHEAVE WHEEL (Cast Iron)**  
(Scale: 3" = 1'-0")

**DETAIL OF COUNTERWEIGHT**  
(Scale: 1/2" = 1'-0")

**Material For Counterweight**  
 2 Pls. 3" x 3" x 1/2"  
 1 Eye Bolt 3/4" Hex. Nut  
 2 Bolts 3/4" Sp. Hd. Hex. Nut  
 4 Lead Bars 3/4" x 1" x 1/8"  
 5 Lead Bars 3/4" x 1" x 1/8"  
 Total weight 105 lbs.

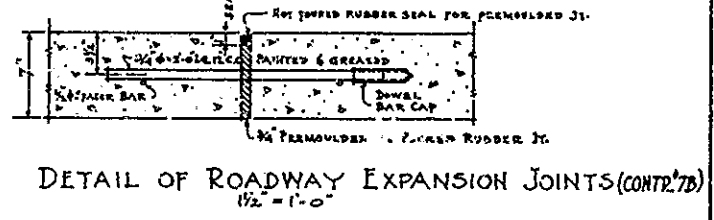
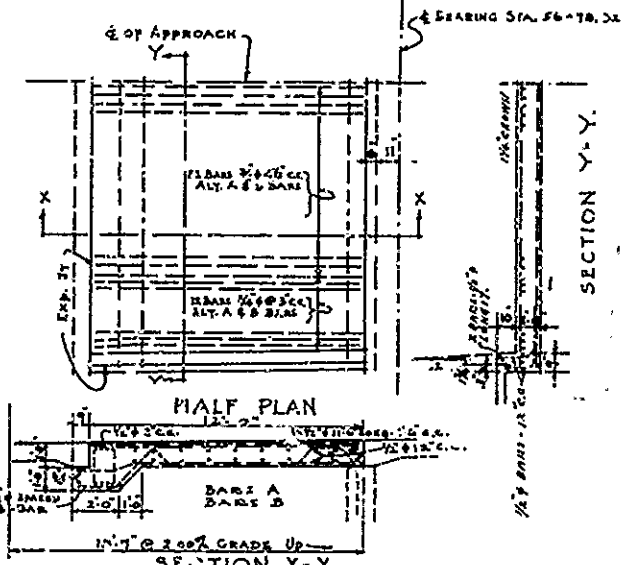
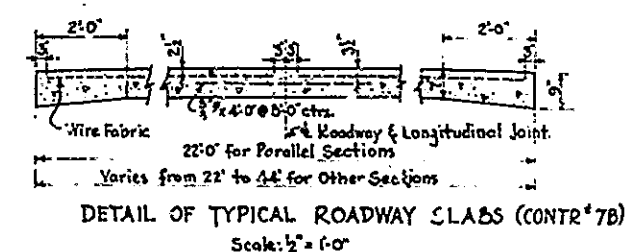
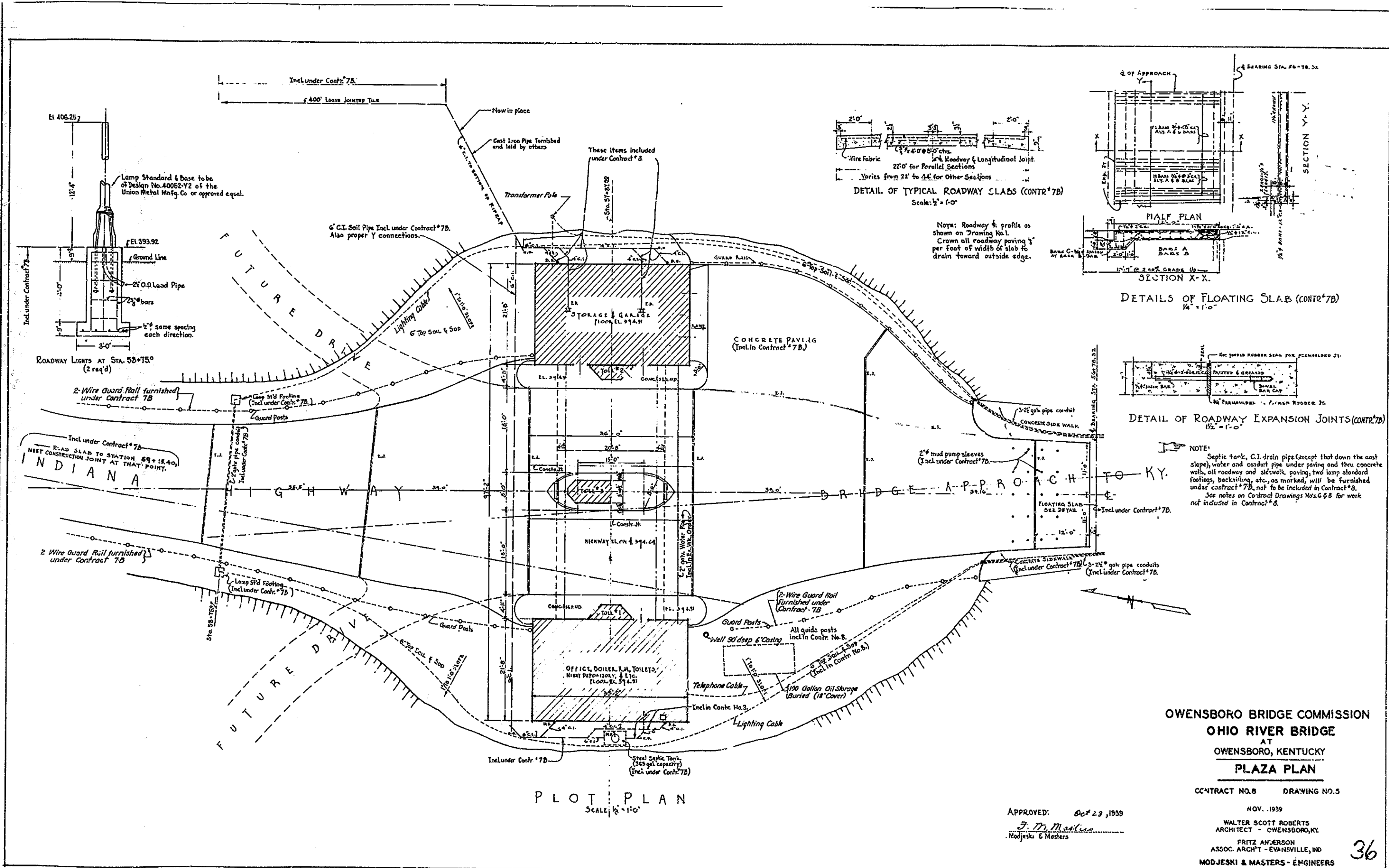
**NOTES**

Box to be constructed of 1/8" thick copper sheeting stiffened with 1/4" x 1/4" x 1/8" Copper L as shown.  
 All corners must be neatly formed and all joints neatly brazed.  
 Box to be weather proof.  
 Neon tubing to be 1/8" diam. Red Fluorescent similar or equal to that manufactured by St. Charles Technical Laboratories Inc. Tubes to be supported on glass insulators.  
 Wire from transformers to receptacles to be No. 14 approved Neon Sign Cable.  
 Feed wire to be rubber jacketed flexible cable running from Neon sign cable through cord grip direct to transformer.  
 Red Porcelain Background to be #16 gauge enameling iron finished with three coats of red parocobin enamel fired at not less than 1650 degrees F.  
 Background to be removable.  
 Transformers to be 3/8 Watt 4000 Volt.

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY.**  
**DETAILS OF NEON PIER LIGHTS**

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
*J.M. Modjeski* 11/28/39  
 MODJESKI & MASTERS.  
 CONTRACT NO. 8 DRAWING NO. 35  
 NOV 1939  
 MODJESKI & MASTERS - ENGINEERS.

THIS DRAWING REVISED SEPT. 1940 TO SHOW THE WORK AS CONSTRUCTED



NOTE: Septic tank, C.I. drain pipe (except that down the east slope), water and conduct pipe under paving and thru concrete walls, all roadway and sidewalk paving, two lamp standard footings, backfilling, etc., as marked, will be furnished under contract #7B, not to be included in Contract #8. See notes on Contract Drawings Nos. G98 for work not included in Contract #8.

PLOT PLAN  
SCALE: 1/8" = 1'-0"

OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY  
PLAZA PLAN

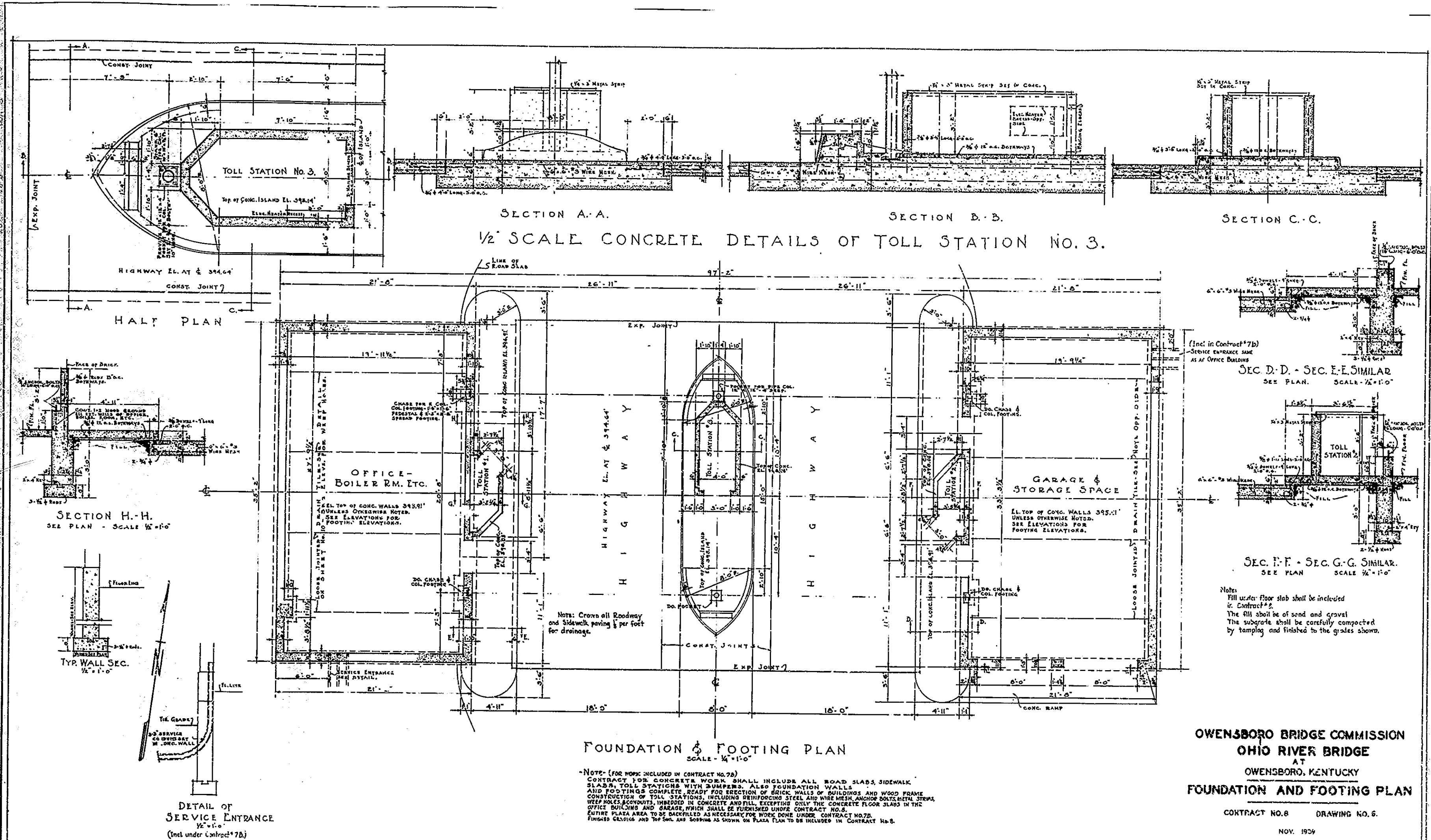
CONTRACT NO. 8 DRAWING NO. 5

APPROVED: Oct 29, 1939  
F. M. Modjeski  
Modjeski & Masters

NOV. 1939  
WALTER SCOTT ROBERTS  
ARCHITECT - OWENSBORO, KY.  
FRITZ ANDERSON  
ASSOC. ARCH'T - EVANSVILLE, IN.  
MODJESKI & MASTERS - ENGINEERS

36

THIS DRAWING REVISED SEPT 1940  
TO SHOW THE WORK  
AS CONSTRUCTED



**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
 AT  
**OWENSBORO, KENTUCKY**  
**FOUNDATION AND FOOTING PLAN**

CONTRACT NO. 8 DRAWING NO. 6.

NOV. 1939

WALTER SCOTT ROBERTS  
 ARCH. TECT. - OWENSBORO, KY.

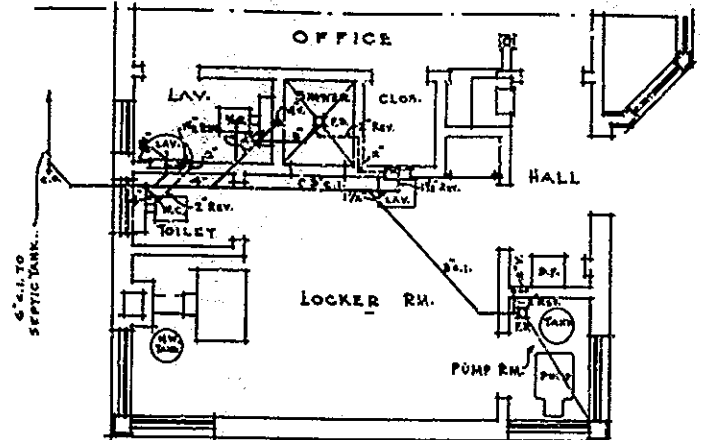
FRITZ ANDERSON  
 ASSOC. ARCHT. - EVANSVILLE, IND.

MODJESKI & MASTERS - ENGINEERS

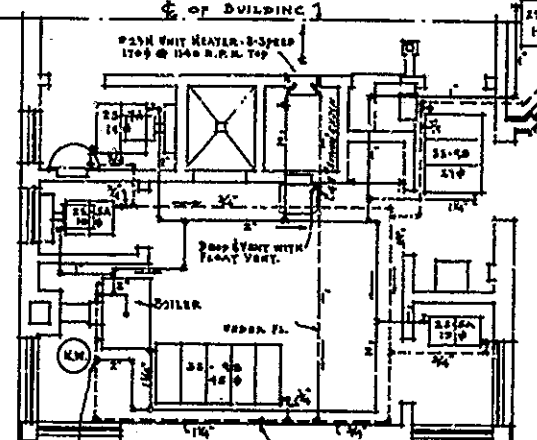
APPROVED:  
*F. M. Modjeski*  
 MODJESKI & MASTERS

37

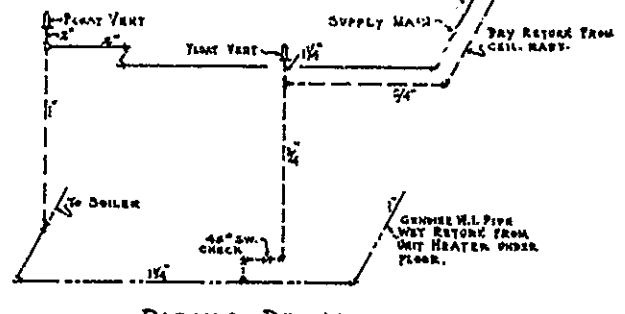
THIS DRAWING REVISED SEPT. 1940  
 TO SHOW THE WORK  
**AS CONSTRUCTED**



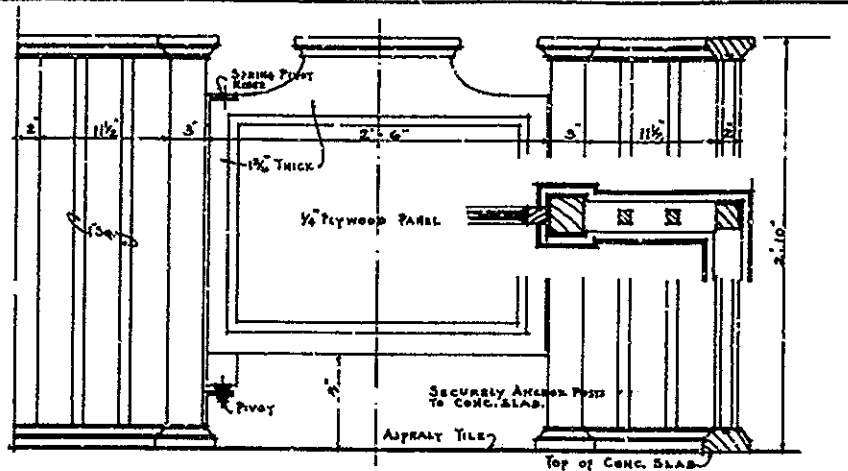
PLUMBING LAYOUT  
SCALE 1/4" = 1'-0"



HEATING LAYOUT  
SCALE 1/4" = 1'-0"



PIPING DETAIL  
NO SCALE



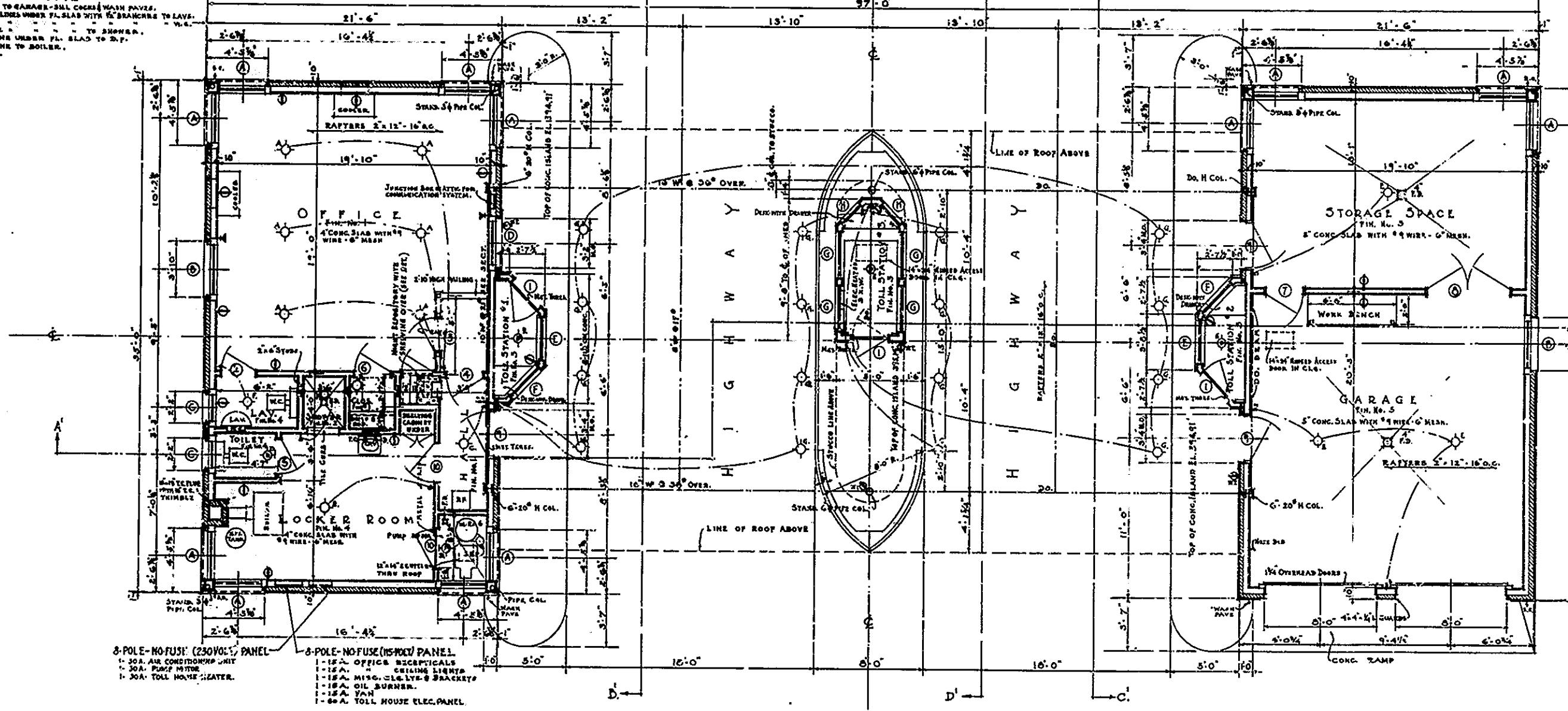
DETAIL OF OFFICE RAILING  
SCALE 1/2" = 1'-0"

FINISH SCHEDULE					
NO.	FLOOR	WALLS	WAINSCOT	BASE	CEILING
1	ASPHALT TILE	CONCRETE	ASPHALT TILE	ASPHALT TILE	ASPHALT TILE BOARD
2	TILE	TILE	TILE	TILE	CER. PLANK
3	ASPHALT TILE	CONCRETE	ASPHALT TILE	ASPHALT TILE	ASPHALT TILE BOARD
4	PA. 30.	CER. PLANK	PA. 30.	PA. 30.	TILE BOARD
5	CEMENT	PA. 30.	CONC.	CONC.	CER. PLANK
6	CEMENT	PA. 30.	CONC.	CONC.	PA. 30.

DOOR SCHEDULE					
NO.	SIZE	THICK.	TYPE	NO. REQD.	REMARKS
1	2'-0" x 8'-0"	1 1/2"	SPECIAL	3	SEE ELEV.
2	2'-0" x 8'-0"	1 1/2"	2 PANEL	1	
3	OFFICE	GATE & RAILING			SEE DETAIL
4	2'-0" x 8'-0"	1 1/2"	2 PANEL	1	SEE ELEV.
5	2'-0" x 8'-0"	1 1/2"	2 PANEL	1	SEE ELEV.
6	2'-0" x 8'-0"	1 1/2"	2 PANEL	1	SEE ELEV.
7	2'-0" x 8'-0"	1 1/2"	BATTERY	1	SEE ELEV.
8	2'-0" x 8'-0"	1 1/2"	BATTERY	2	SEE ELEV.
9	2'-0" x 8'-0"	1 1/2"	SPECIAL	3	SEE ELEV.
10	2'-0" x 8'-0"	1 1/2"	2 PANEL	2	SEE ELEV.

**SCREENS**  
ALL WINDOWS IN OFFICE, LOCKER ROOM, PUMP ROOM, LAV & TOILET TO HAVE 1/8" x 2" JAMES & HENRY WIRE MESH & 1/2" x 1/2" ALUMINUM SCREENS. EXTERIOR DOOR TO HALL TO HAVE SCREEN DOOR 1/2" THICK WITH STILES & CROSS MEMBERS SIMILAR TO THOSE OF DOOR 10.

**NOTE**  
SEE ALSO PLOT PLAN.  
1. ALL C.W. LINES TO BE MARKED - 3/16" CHISEL MARK PAVES.  
2. ALL C.W. LINES TO BE MARKED WITH 1/2" BRASS NAILS TO LAV.  
3. ALL C.W. LINES TO BE MARKED WITH 1/2" BRASS NAILS TO BATH.  
4. ALL C.W. LINES UNDER FL. SLAB TO BE MARKED WITH 1/2" BRASS NAILS TO B.P.  
5. ALL C.W. LINES TO BOILER.



FLOOR PLAN  
SCALE 1/4" = 1'-0"

SEE PLUMBING & HEATING LAYOUTS ON THIS SHEET.  
SEE ALSO FOUNDATION PLAN & PLOT PLAN.

- 3-POLE-NO FUSE (230VOLT) PANEL
- 1-30A. AIR CONDITIONER UNIT
- 1-30A. POLE METER
- 1-30A. TOLL HOUSE METER

- 3-POLE-NO FUSE (115VOLT) PANEL
- 1-15A. OFFICE RECEPTICALS
- 1-15A. OFFICE RECEPTICALS
- 1-15A. MISCO. CLEVER 3 RECEPTICALS
- 1-15A. OIL BURNER
- 1-15A. TOLL HOUSE ELEC. PANEL

NOTE 1  
LETTER ADJACENT TO ELEC. OUTLET INDICATES TYPE OF PICTURE - SEE SPEC.

- LEGEND**
- INDICATES CONCRETE
  - INDICATES BRICK
  - INDICATES PLASTER WORK
  - INDICATES WOODWORK

- ABBREVIATIONS**
- F.D. = FLOOR DRAIN
  - D.T. = DRINKING TROUGH
  - C.W. = COLD WATER
  - E.I. = CAST IRON
  - E.J. = EXPANSION JOINT
  - W.T. = WATER TIGHT RECEPTICAL
  - C.O. = CLEAN OUT
  - H.W. = HOT WATER
  - S.C. = SILL COOK
  - D.P. = DOWNSPOUT
  - H.P. = HORSE POWER

- ELECTRICAL SYMBOLS**
- CEILING OUTLET
  - RECEPTICAL
  - RECEPTICAL
  - TELEPHONE OUTLET
  - CEILING OUTLET (GROP CORD)
  - SINGLE POLE SWITCH
  - 3-WAY SWITCH
  - MOTOR OUTLET - N.P.A.S. INDICATED

APPROVED  
*F.M. Masters* 11/29/39  
MODJESKI & MASTERS

**OWENSBORO BRIDGE COMMISSION**  
**OHIO RIVER BRIDGE**  
AT  
**OWENSBORO, KENTUCKY.**  
**BUILDING FLOOR PLANS AND DETAILS**

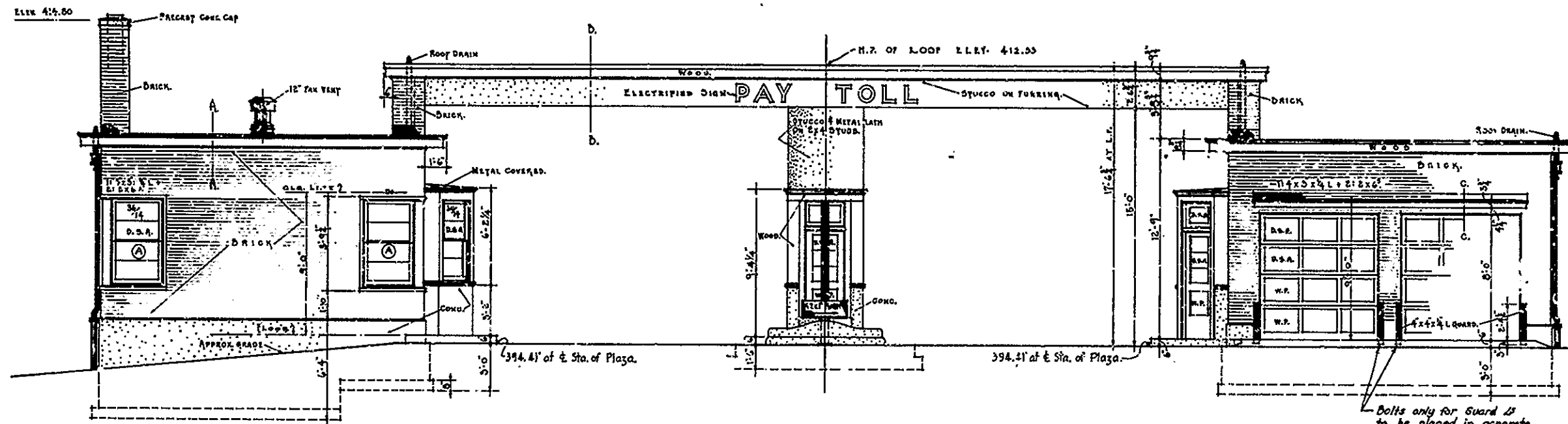
CONTRACT NO. 8 DRAWING NO. 7.

NOV. 1939  
WALTER SCOTT ROBERTS,  
ARCHITECT - OWENSBORO, KY.  
FRITZ ANDERSON  
ASSOC. ARCHT. - EVANSVILLE, IND.  
MODJESKI & MASTERS - ENGINEERS.

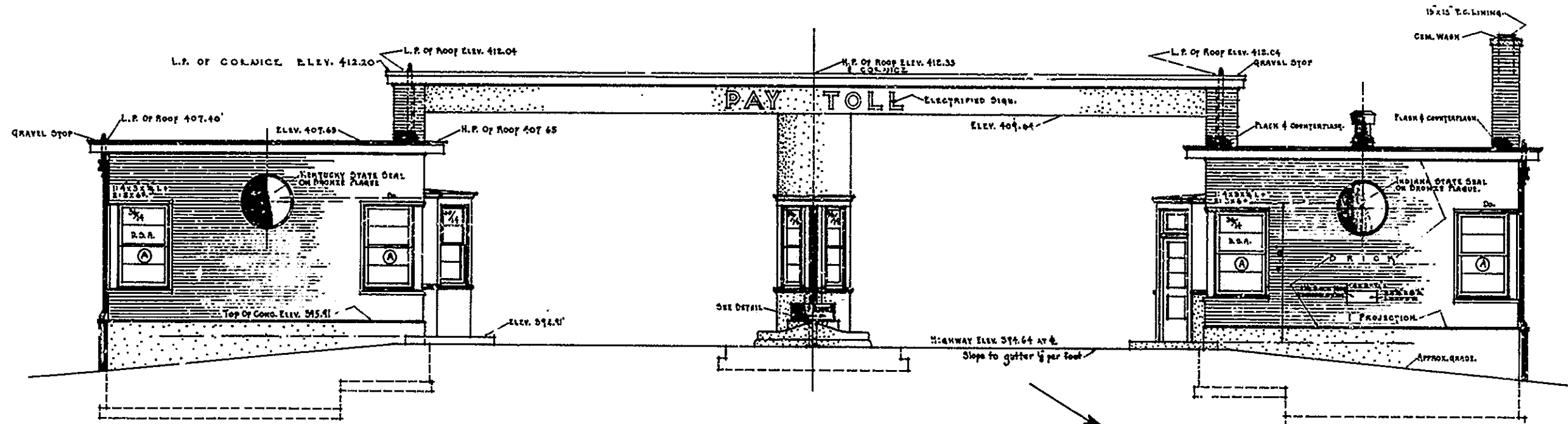
38

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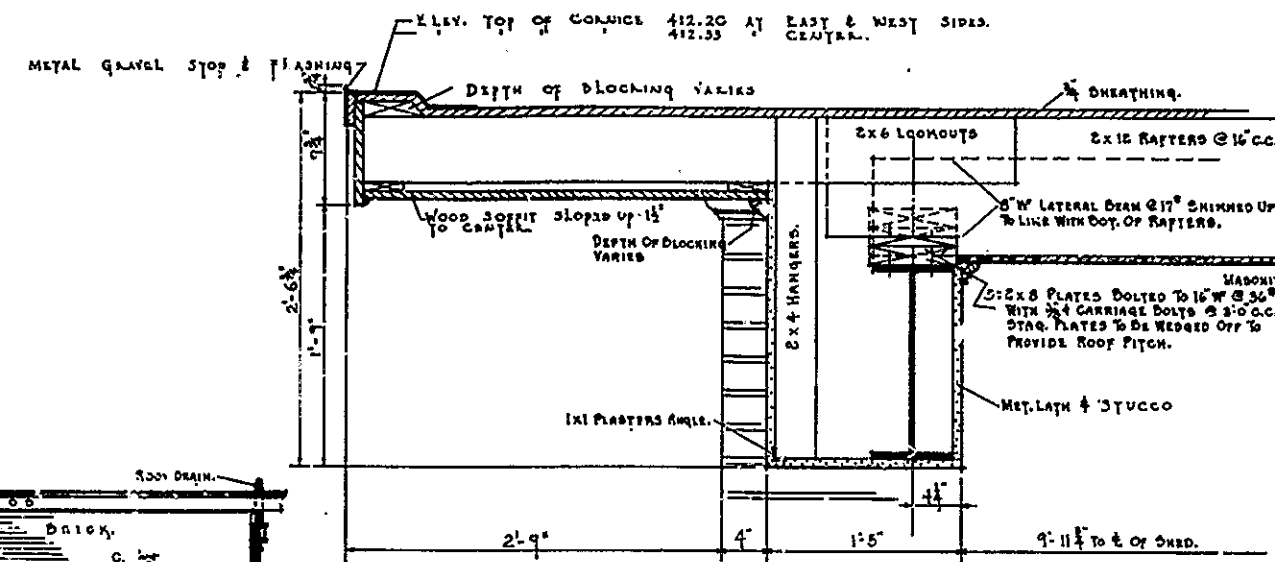


SOUTH ELEVATION  
SCALE 1/4"=1'-0"

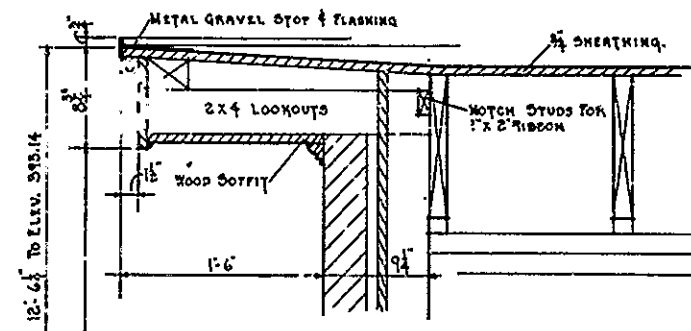


NORTH ELEVATION  
SCALE 1/4"=1'-0"

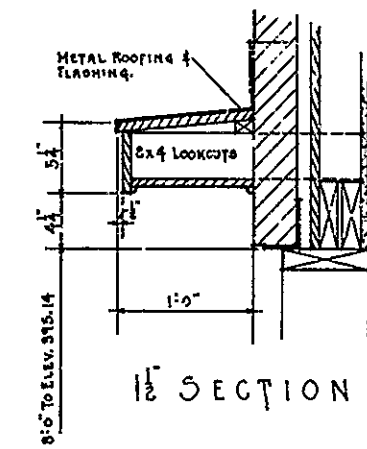
Notes:  
Concrete in floors of Administration and Garage Buildings, easement for right depository safe and in Concrete Barrier on Owensboro approach shall be furnished under Contract No. 8.  
Concrete in foundations, foundation walls to Elev. 396.14, toll island and bumpers, roadway pavement, curbs and sidewalks, and in walls of collection booths up to window sills, has or will be placed under Contract No. 7-B.



SECTION D.D.



SECTION A.A.



SECTION C.C.

OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO KENTUCKY.  
END ELEVATIONS AND SECTIONS

CONTRACT NO. 8 DRAWING NO. 8

NOV. 1939

WALTER SCOTT ROBERTS  
ARCHITECT - OWENSBORO, KY.

FRITZ ANDERSON  
ASSOC. ARCHT. EVANSVILLE, IND.

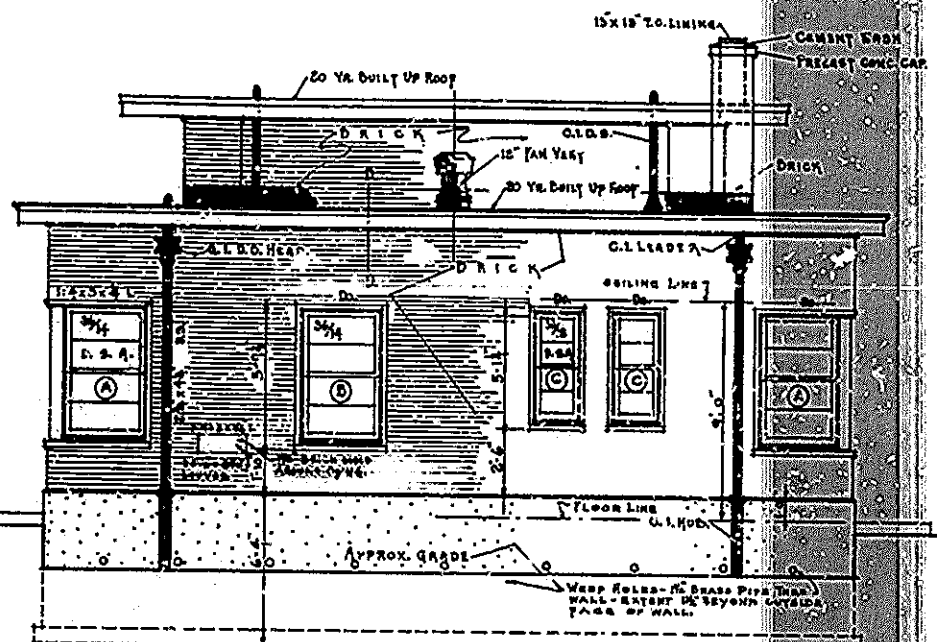
MODJESKI & MASTERS - ENGINEERS.

APPROVED:

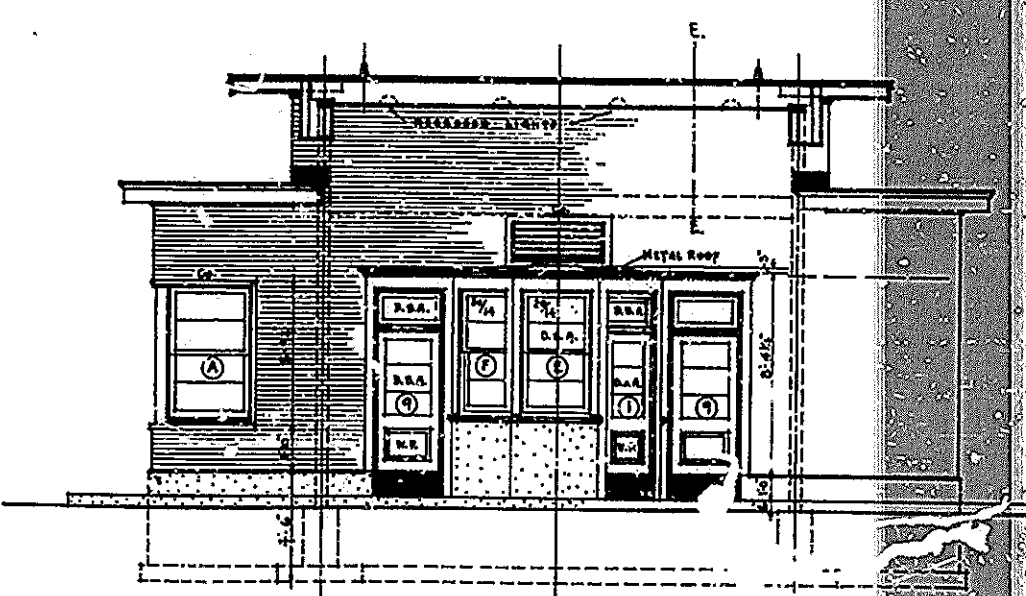
F. M. Masters 11/29/39  
MODJESKI & MASTERS

39

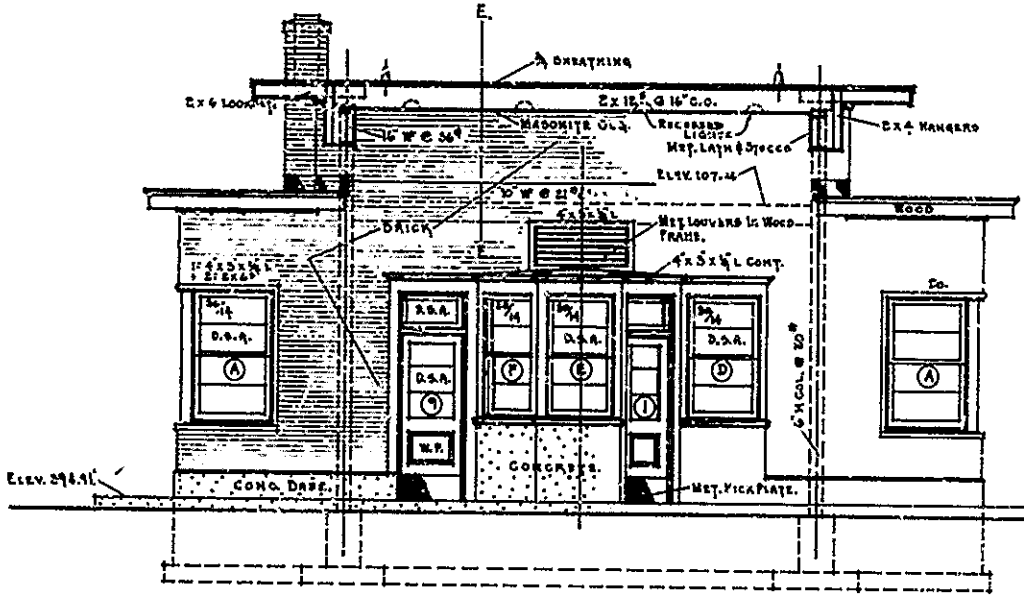
THIS DRAWING REVISED SEPT. 1940  
TO SHOW THE WORK  
AS CONSTRUCTED



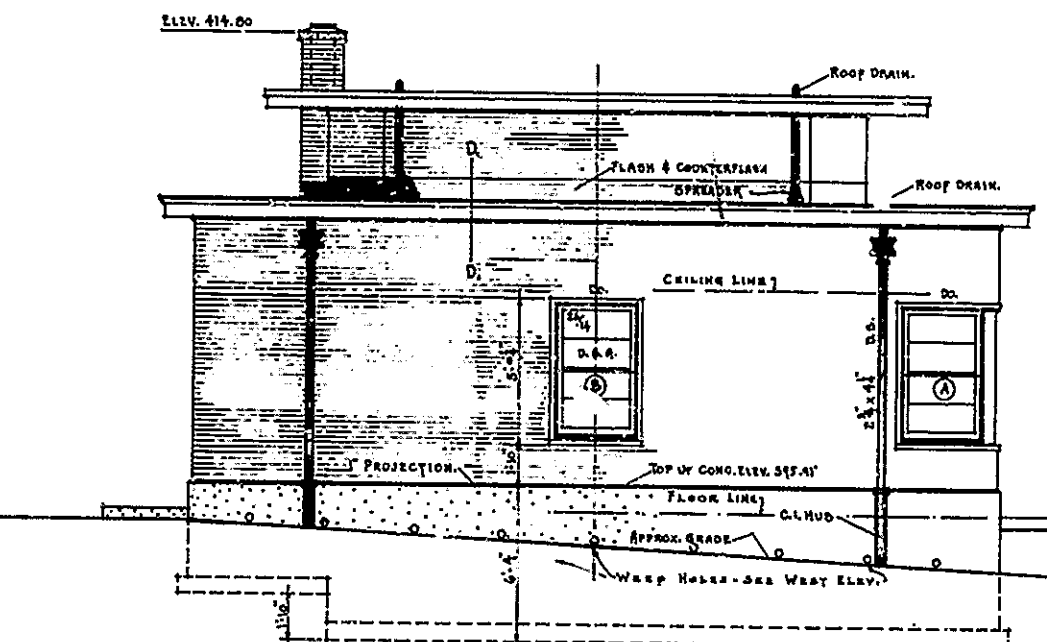
WEST ELEVATION  
SCALE 1/4"=1'-0"



SECTION ~ C.C.  
SCALE 1/4"=1'-0"

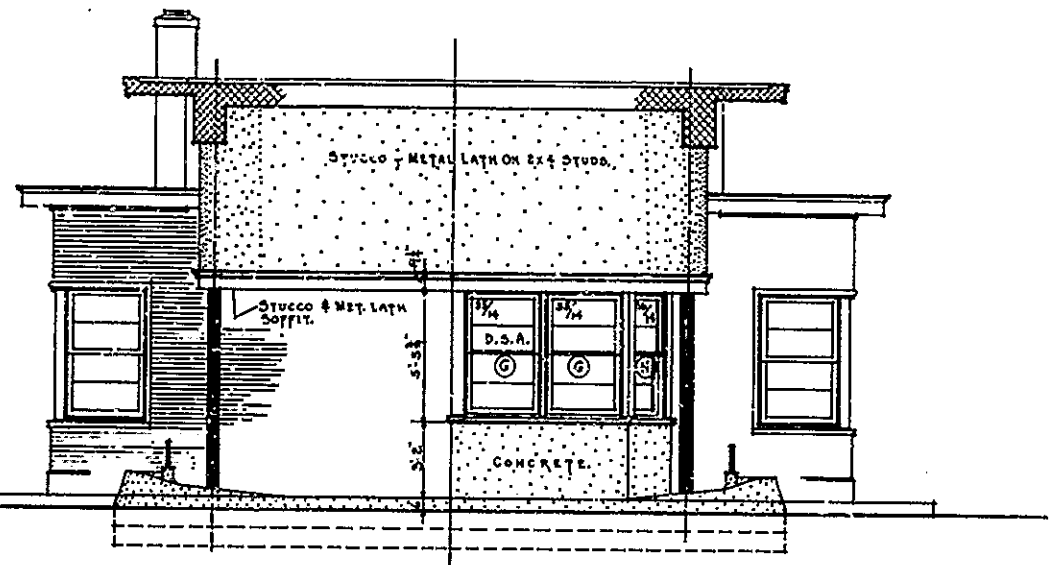


SECTION ~ B.B.  
SCALE 1/4"=1'-0"

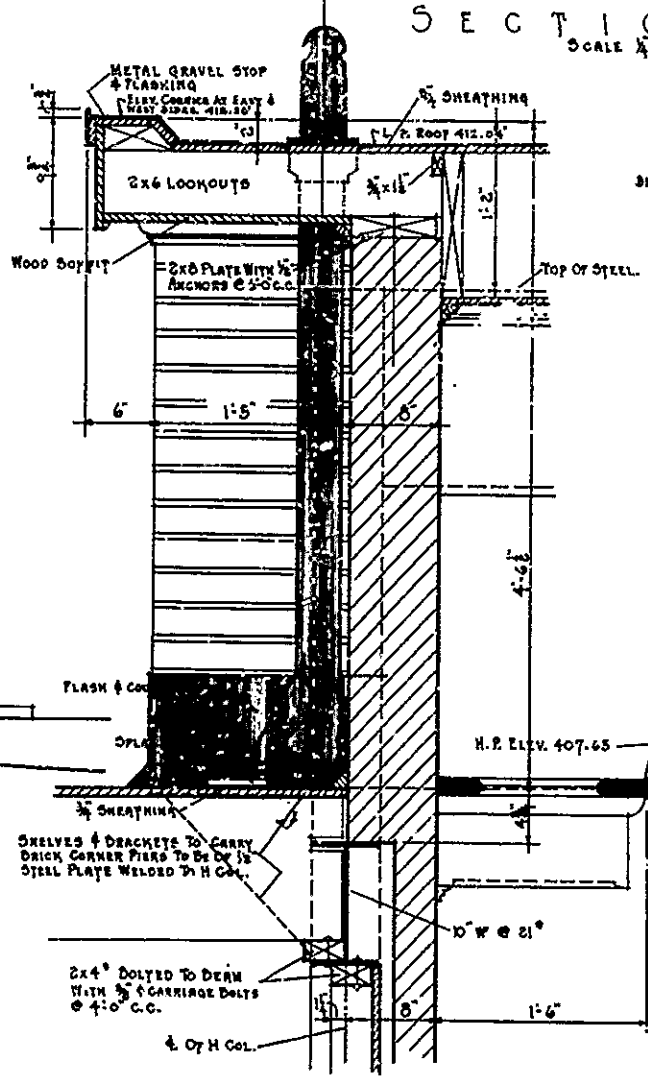


EAST ELEVATION  
SCALE 1/4"=1'-0"

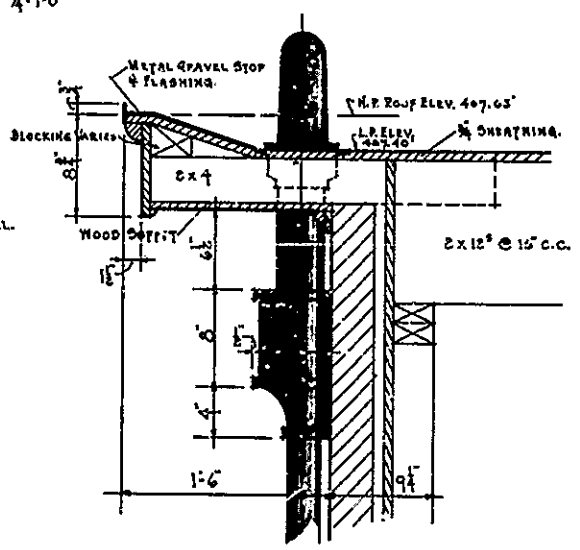
Note:  
See notes on drawings No. 668 for  
concrete to be placed under this contract.



SECTION ~ D.D.  
SCALE 1/4"=1'-0"



SECTION ~ E.E.  
SCALE 1/4"=1'-0"



SECTION ~ F.F.  
SCALE 1/4"=1'-0"

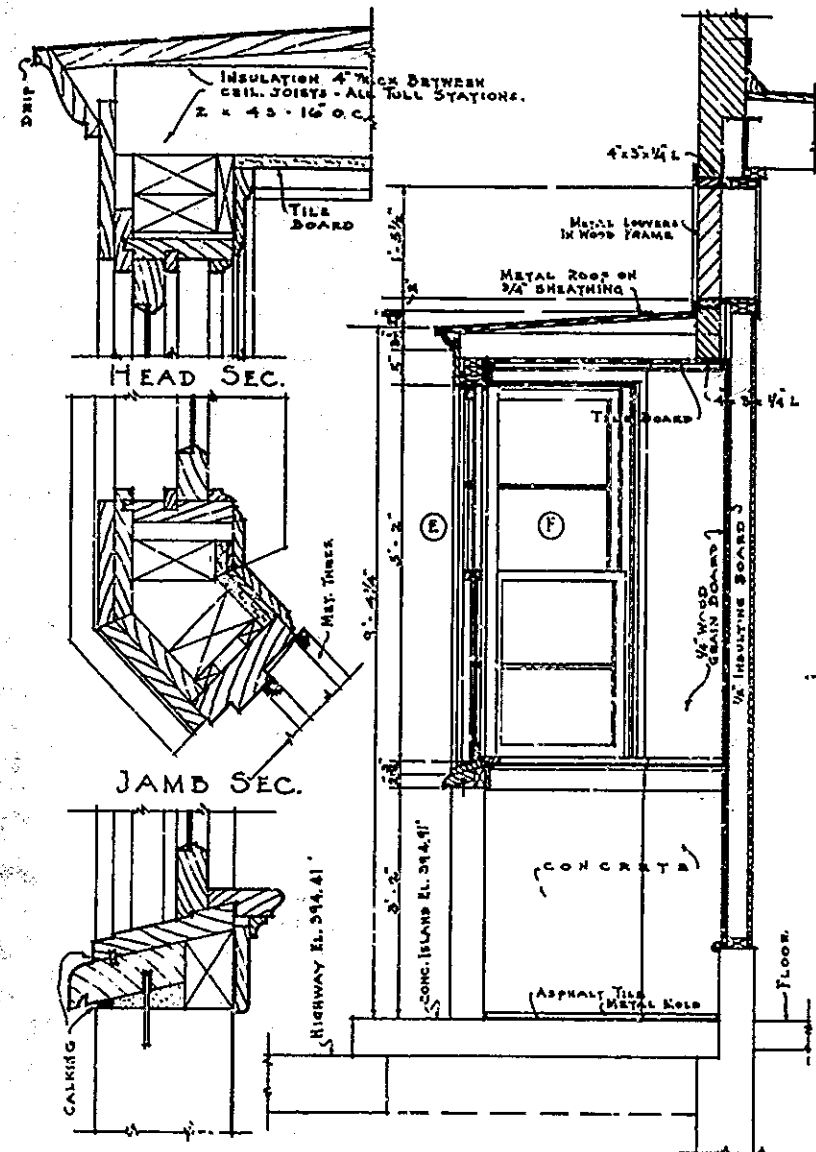
OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY.  
SIDE ELEVATIONS AND SECTIONS

CONTRACT NO. 8 DRAWING NO. 9

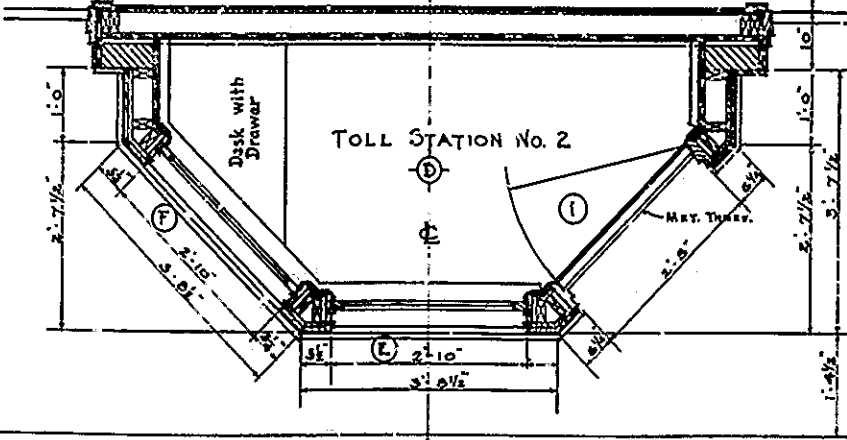
NOV. 1939  
WALTER SCOTT ROBERTS  
ARCHITECT - OWENSBORO, KY.  
FRITZ ANDERSON  
ASSOC. ARCHT. - EVANSVILLE, IND.  
MODJESKI & MASTERS - ENGINEERS.

40

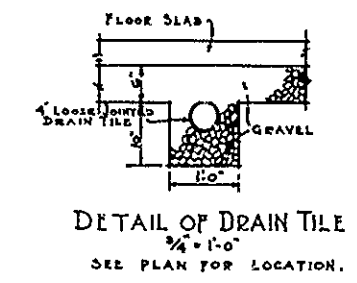
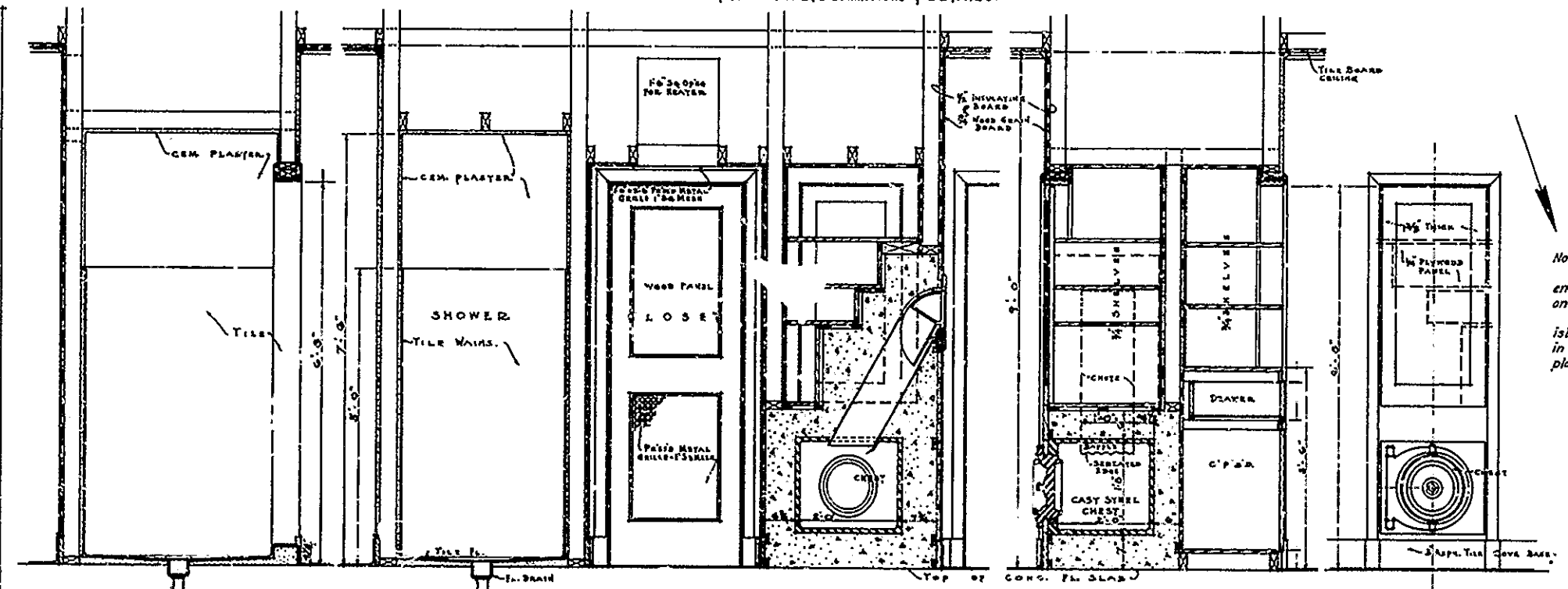
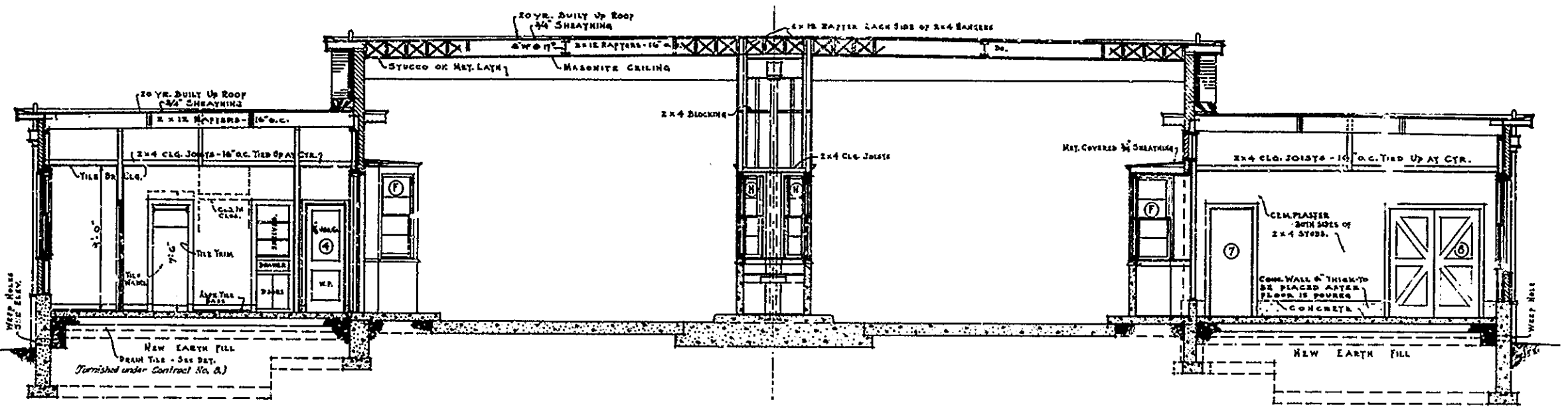
THIS DRAWING REVISED SEPT. 1940  
TO SHOW THE WORK  
AS CONSTRUCTED.



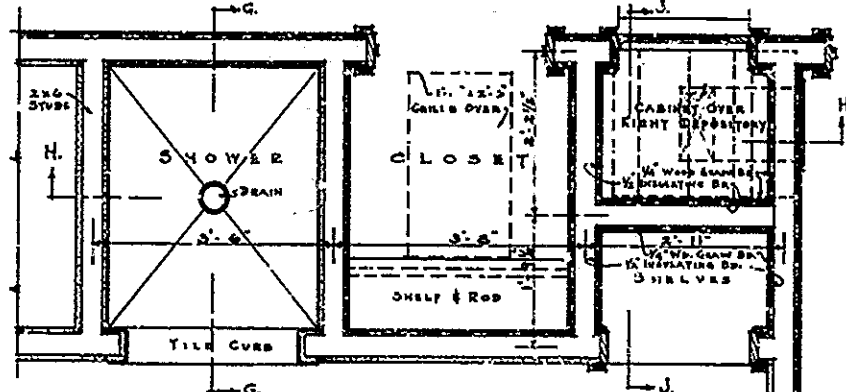
SECTION ON C  
SCALE 3/4" = 1'-0"



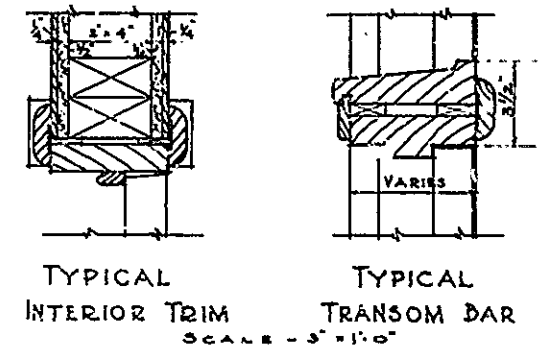
DETAILS OF TOLL STATION NO. 2  
NOTE: TOLL STATION NO. 1. SIMILAR.



Notes:  
Concrete in floors of Administration and Garage Buildings, encasement for night depository site and in Concrete Marler on Owensboro approach shall be furnished under Contract No. 8.  
Concrete in foundations, foundation walls to Elev. 398.44, tall island and bumpers, roadway pavement, curbs and sidewalks, and in walls of collection basins up to window sills, has or will be placed under Contract No. 7-B.



3/4" SCALE DETAILS OF SHOWER - NIGHT DEPOSITORY - ETC.



OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY.  
BUILDING CROSS SECTIONS & DETAILS

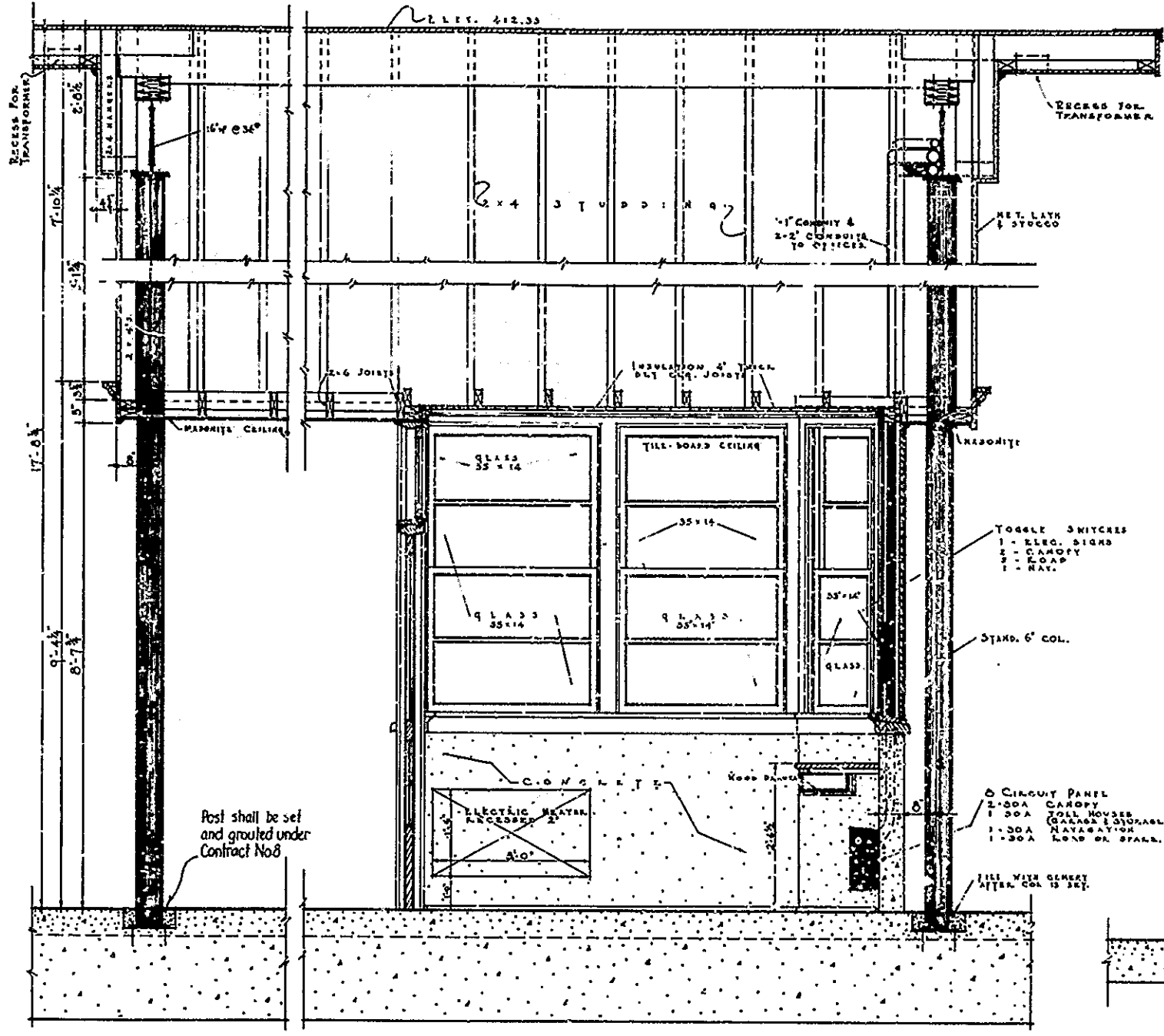
CONTRACT NO. 8 DRAWING NO. 10.

NOV. 1939  
WALTER SCOTT ROBERTS  
ARCHITECT - OWENSBORO, KY.  
FRITZ ANDERSON  
ASSOC. ARCHT - EVANSVILLE, IND.  
MODJESKI & MASTERS - ENGINEERS.

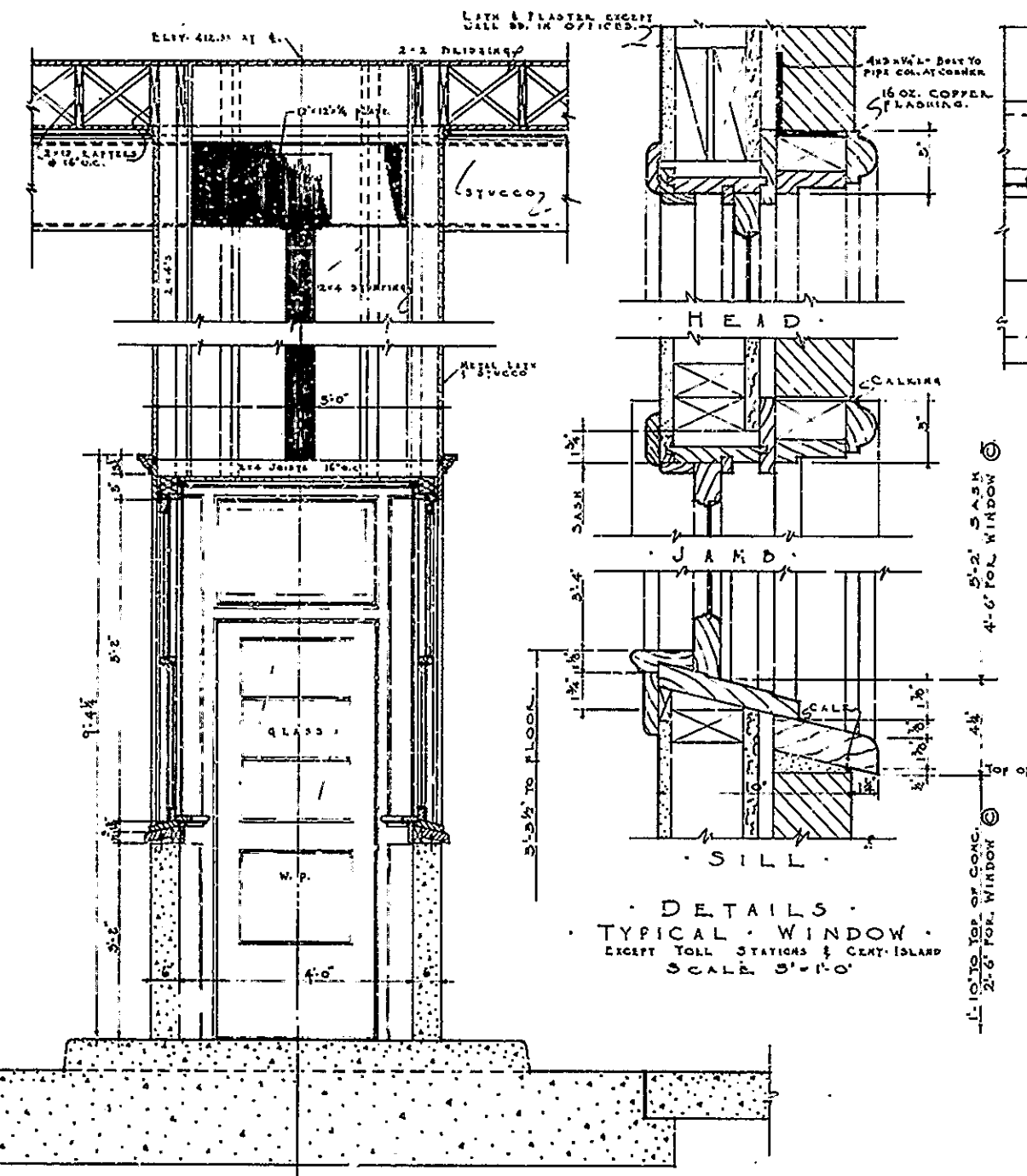
41

APPROVED:  
F. M. Masterson  
ARCHT & ENGRS

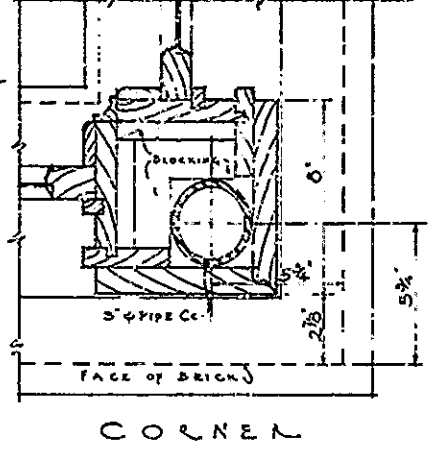
THIS DRWG. REVISED APRIL 1940  
TO SHOW THE WORK  
AS CONSTRUCTED



SECTION AT E  
SCALE 3/4" = 1'-0"



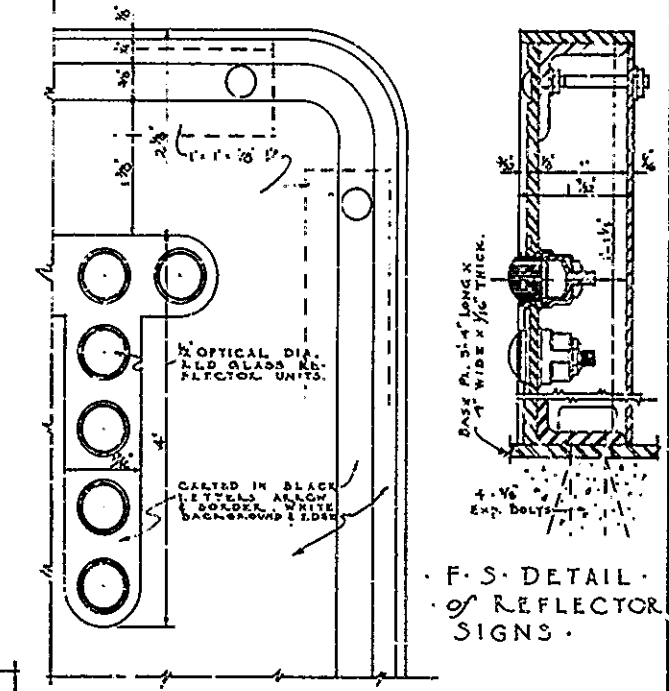
SECTION K-K  
SCALE 3/4" = 1'-0"



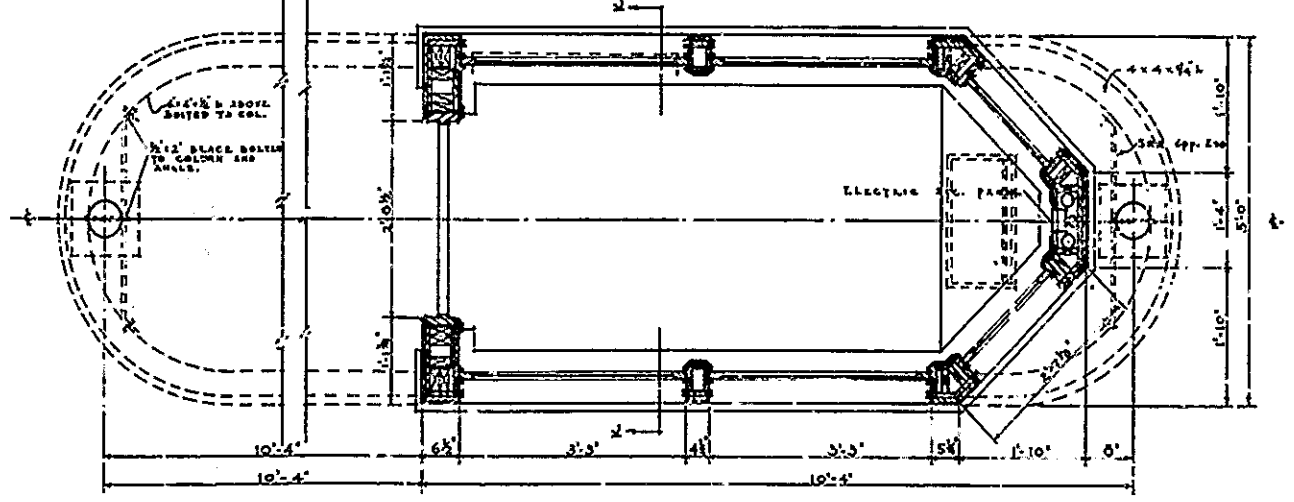
CORNER

Note: Concrete shown has been or will be placed under Contract No. 76

DETAILS  
TYPICAL WINDOW  
EXCEPT TOLL STATIONS & CLAY ISLAND  
SCALE 5/8" = 1'-0"



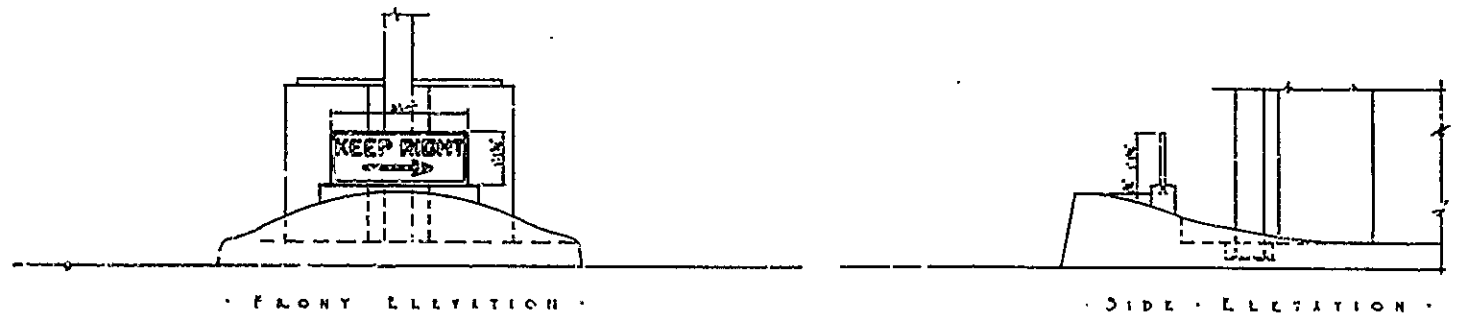
F.S. DETAIL  
OF REFLECTOR  
SIGNS



PLAN  
SCALE 3/4" = 1'-0"

3/4" DETAILS OF TOLL STATION NO. 3

NOTE: - SEE SHEET NO. 2 FOR ALL CONCRETE DETAILS.  
- 6 - WINDOW DETAILS.



ELEVATIONS OF DUMPER  
and REFLECTOR SIGN  
SCALE 3/4" = 1'-0"

OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO KENTUCKY  
TOLL BOOTH DETAILS

CONTRACT NO. 6 DRAWING NO. 11

NOV. 1939  
WALTER SCOTT JERTS  
ARCHITECT - OWENSBORO, KY.

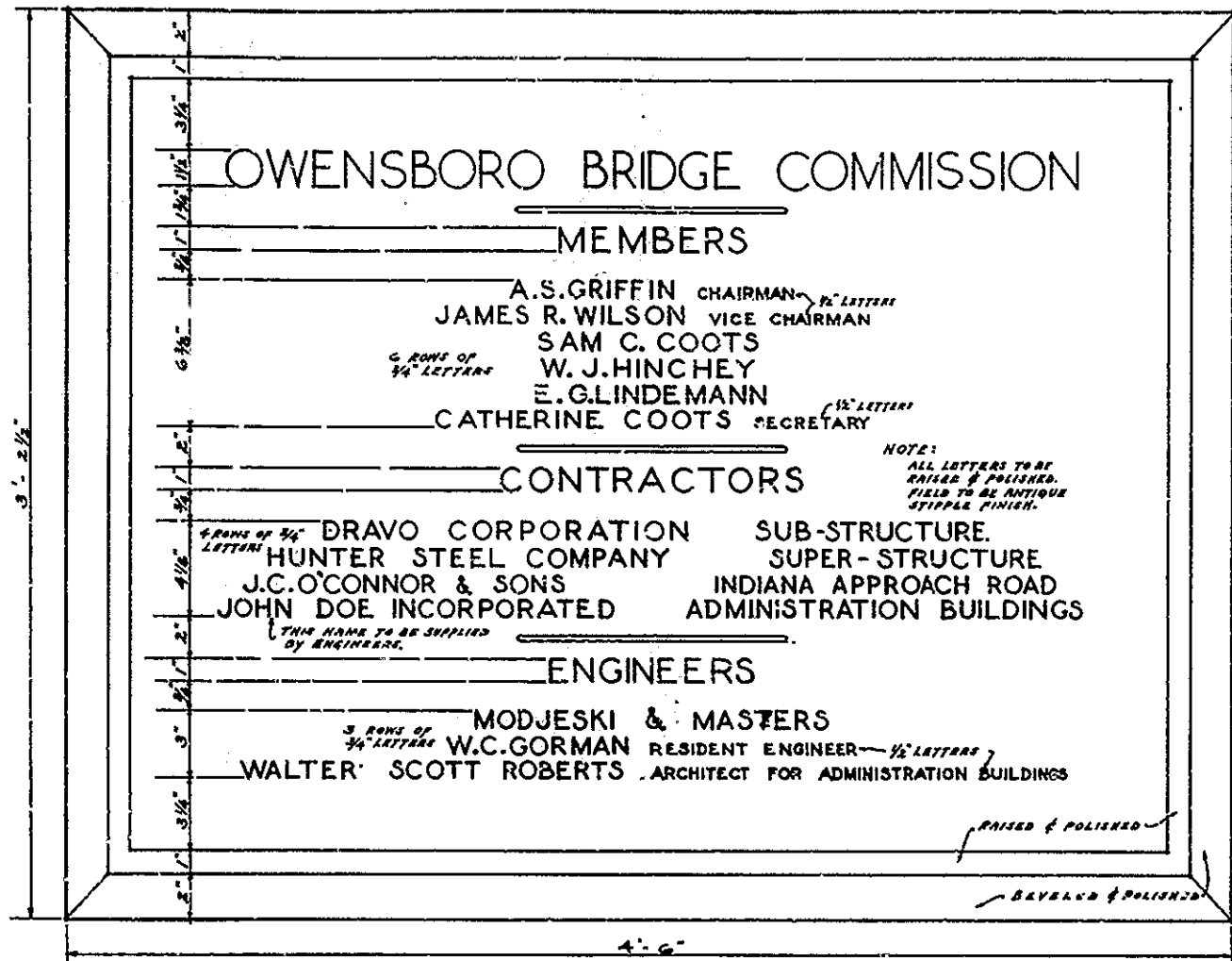
FRITZ ANDERSON  
ASSOC. ARCHT - EVANSVILLE, IND.  
MODJESKI & MASTERS - ENGINEERS.

APPROVED Oct. 25, 1939  
J. M. Masters  
Modjeski & Masters

42

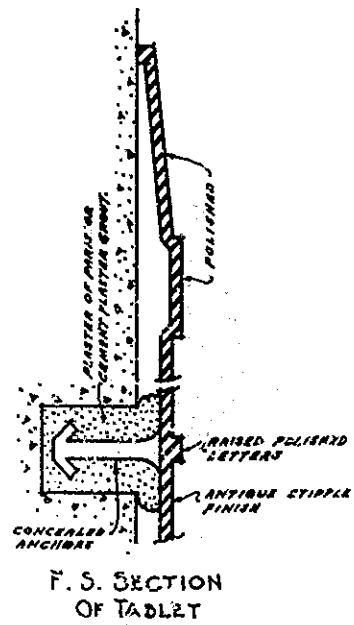
THIS DRAWING REVISED SEPT. 1940  
TO SHOW THE WORK  
AS CONSTRUCTED



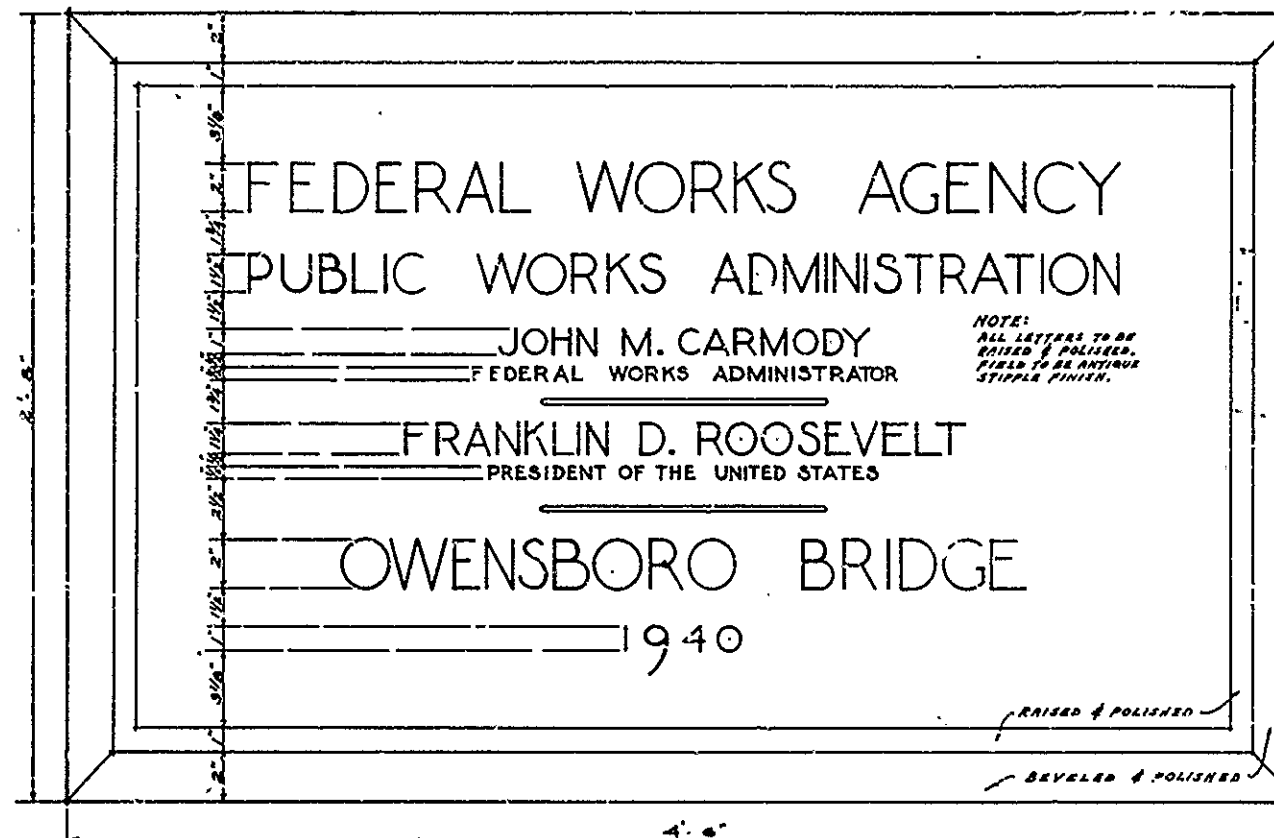


BRONZE TABLET NO. 1.  
SCALE - 3" = 1'-0"

Exact lettering and arrangement will be given to Contractor following award of Contract.

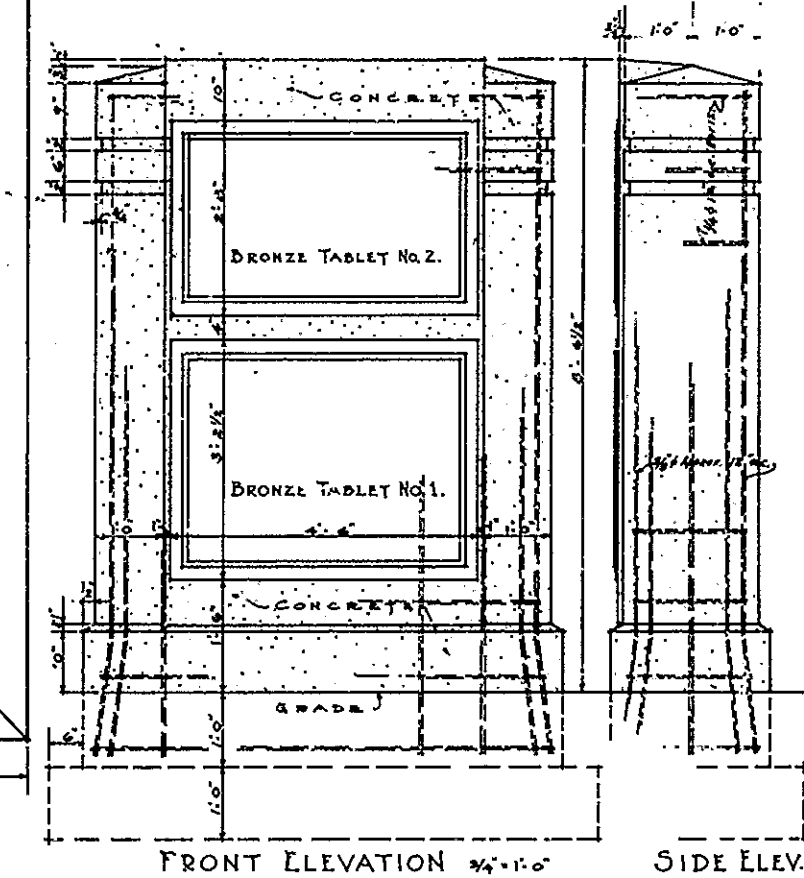


ADM  
DETAIL OF TYPICAL LETTERS  
NO SCALE  
SEE TABLET FOR SIZE OF LETTERS

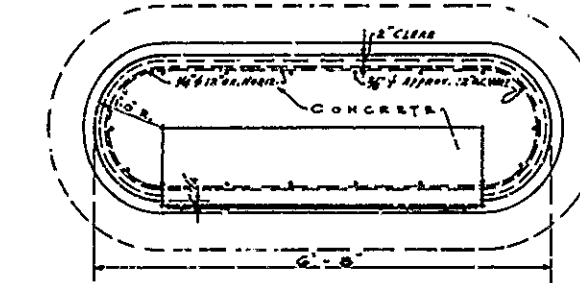


BRONZE TABLET NO. 2.  
SCALE - 3" = 1'-0"

NOTE: ALL LETTERS TO BE RAISED & POLISHED. FIELD TO BE ANTIQUE STIPPLE FINISH.

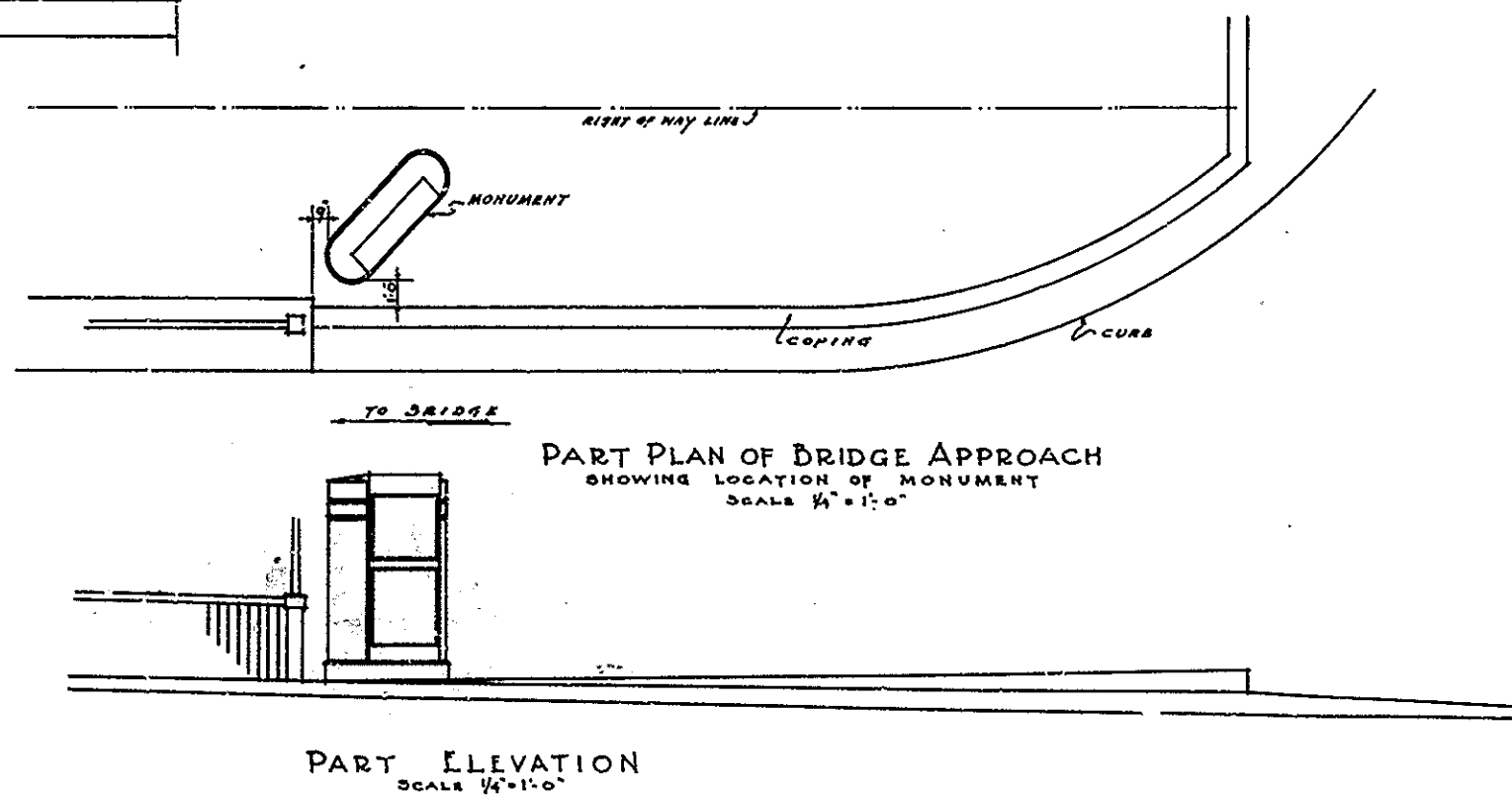


FRONT ELEVATION 3/4" = 1'-0" SIDE ELEV.



PLAN 3/4" = 1'-0"  
DETAILS OF MONUMENT

NOTE: CONTRACTOR IS TO PROVIDE RECESS IN MONUMENT AS DIRECTED, FOR COPPER BOX.



PART PLAN OF BRIDGE APPROACH  
SHOWING LOCATION OF MONUMENT  
SCALE 1/4" = 1'-0"

PART ELEVATION  
SCALE 1/4" = 1'-0"

OWENSBORO BRIDGE COMMISSION  
OHIO RIVER BRIDGE  
AT  
OWENSBORO, KENTUCKY  
MONUMENT & BRONZE TABLET

CONTRACT NO. 8 DRAWING NO. 12

NOV. 1939  
WALTER SCOTT ROBERTS  
ARCHITECT - OWENSBORO, KY.  
FRITZ ANDERSON  
ASSOC. ARCHT - EVANSVILLE, IND.  
MODJESKI & MASTERS - ENGINEERS

43

THIS DRWG. REVISED SEPT. 1940  
TO SHOW THE WORK  
AS CONSTRUCTED