

Drainage Area 16 Sq. Mi.

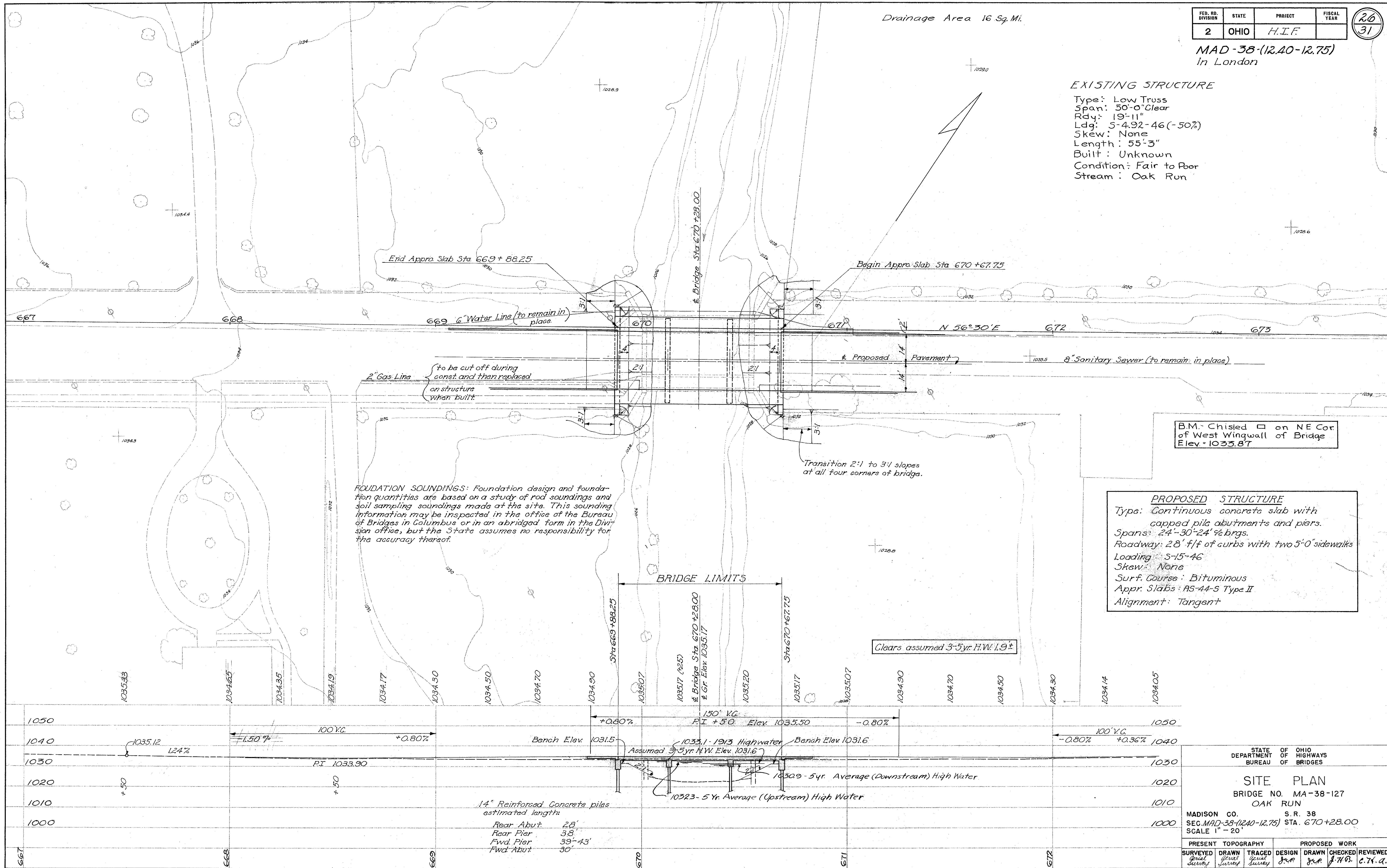
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO	H.I.F.	

20
31

MAD-38-(12.40-12.75)
In London

EXISTING STRUCTURE

Type: Low Truss
Span: 50'-0" Clear
Rdy: 19'-11"
Ldg: 5-4.92-46 (-50%)
Skew: None
Length: 55'-3"
Built: Unknown
Condition: Fair to Poor
Stream: Oak Run



FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division office, but the State assumes no responsibility for the accuracy thereof.

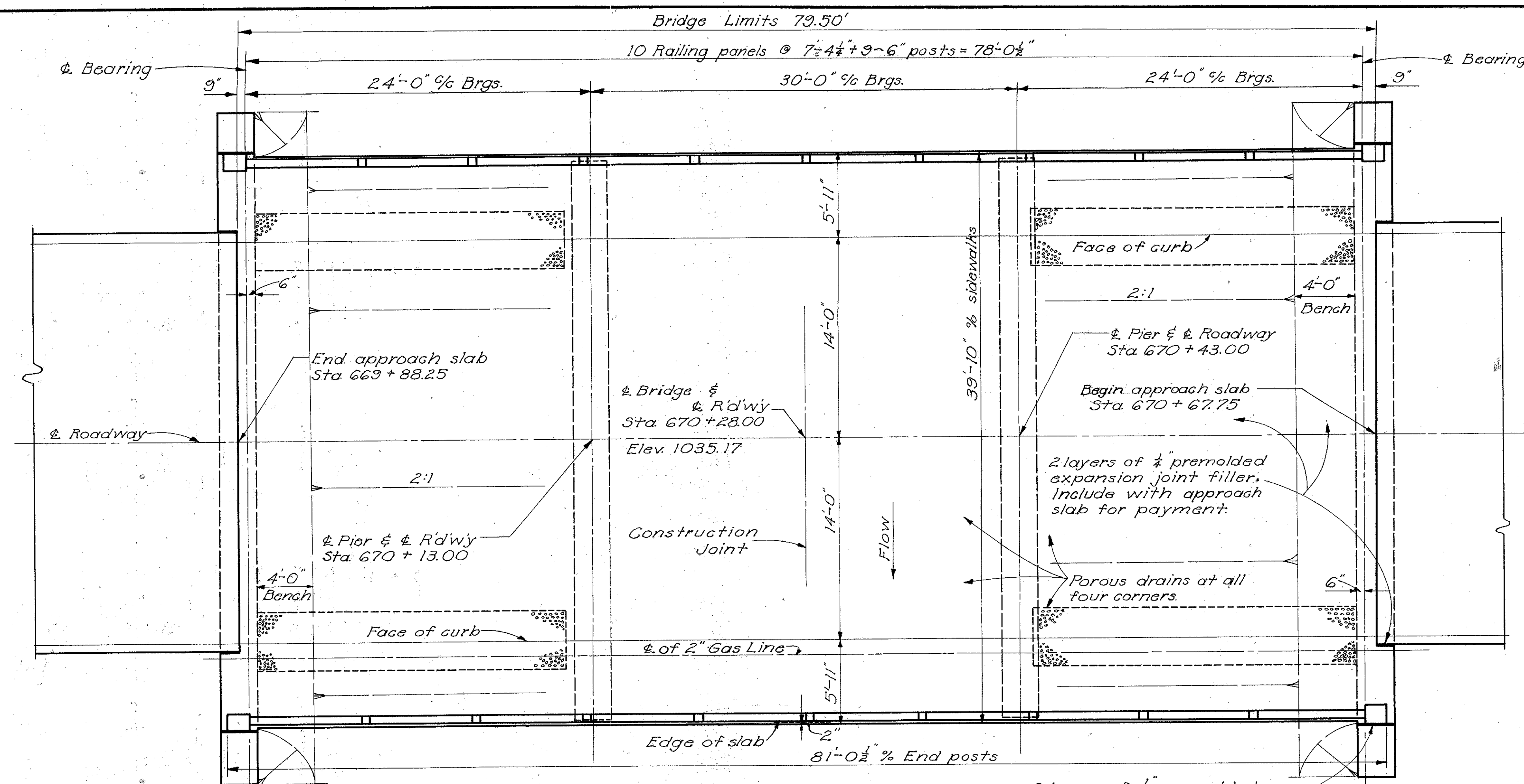
B.M. Chisled on NE Cor of West Wingwall of Bridge Elev. 1035.87

PROPOSED STRUCTURE
Type: Continuous concrete slab with capped pile abutments and piers.
Spans: 24'-30'-24' brgs.
Roadway: 28' f/f of curbs with two 5'-0" sidewalks
Loading: 5-15-46
Skew: None
Surf. Course: Bituminous
Appr. Slabs: AS-44-S Type II
Alignment: Tangent

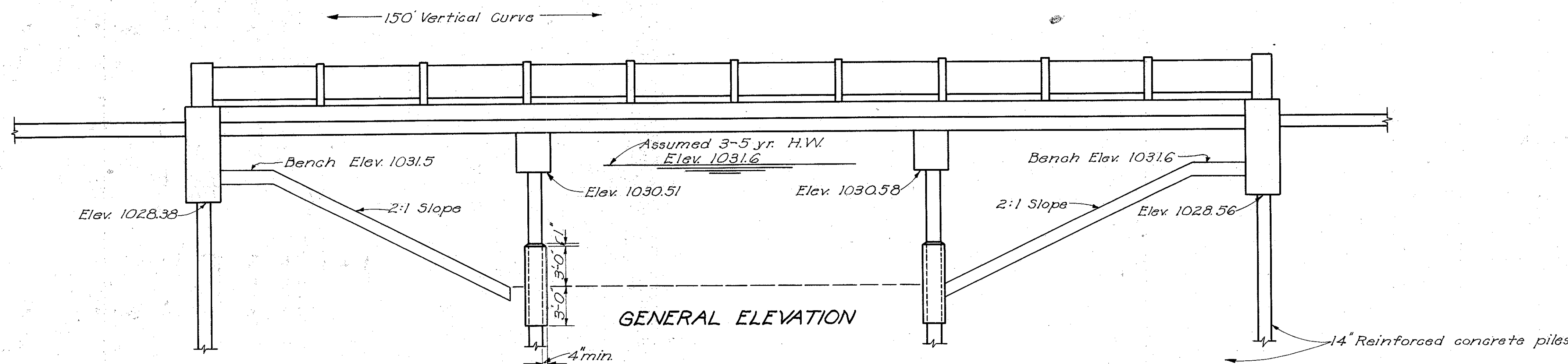
Clears assumed 3-5yr. H.W. 1.9'

14" Reinforced Concrete piles estimated length:
Rear Abut. 28'
Rear Pier 38'
Fwd. Pier 39'-43'
Fwd. Abut. 30'

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES			
SITE PLAN BRIDGE NO. MA-38-127 OAK RUN			
MADISON CO.		S. R. 38	
SEC. MAD-38-(12.40-12.75)		STA. 670+28.00	
SCALE 1" = 20'			
PRESENT TOPOGRAPHY			PROPOSED WORK
SURVEYED	DRAWN	TRACED	DESIGN
<i>Serial Survey</i>	<i>General Survey</i>	<i>General Survey</i>	<i>J. H. B.</i>
AOC			BFG
			<i>10-22-53</i>



GENERAL PLAN



GENERAL ELEVATION

GENERAL NOTES

REFERENCE shall be made to Standard Drawings GS-2-47 revised 7-27-49, and P-1-49 dated 7-27-49.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Substructure to be removed to finished ground lines. Suitable waste masonry may be used as bank protection where directed by the Engineer, remainder to be used in embankment slopes at structure. The remainder of the removed materials shall become the property of the Contractor.

PILING shall be driven to a minimum bearing of 22 tons for the abutments and 35 tons for the piers. Piling have been spaced to straddle the sanitary sewer and the water main, but the location of these utility lines shall be verified in the field by the Contractor before piles are driven. Piles adjacent to the utility lines shall be bored to the depth of the bottom of the line.

WELDING of Railing Steel shall be Class A.

SURFACE FINISH OF CONCRETE: Railing and posts, curb faces and fascia of deck shall receive a rubbed surface finish. Bottom of deck slab and sidewalk surface shall be governed by the provisions of Item S-1. All other exposed surfaces shall be grout cleaned as per Sec S-1.22. Form liner shall be used for all surfaces to be grout cleaned.

POROUS DRAINS extending from face of abutment to Elev. 1023.0, shall be placed on and flush with embankment slopes at all four corners of the bridge. The drains shall be 4" wide and one foot thick and shall be centered under scuppers. They shall be composed of No. 1 or No. 12 gravel, stone or slag. Construction procedure shall conform essentially to Item I-9. Trench excavation shall be included for payment with the price per cu. yd. for porous drains on embankment slopes.

2 1/2" ASPHALTIC CONCRETE SURFACE COURSE, Item T-35, laid in two 1 1/4" courses, shall be provided.

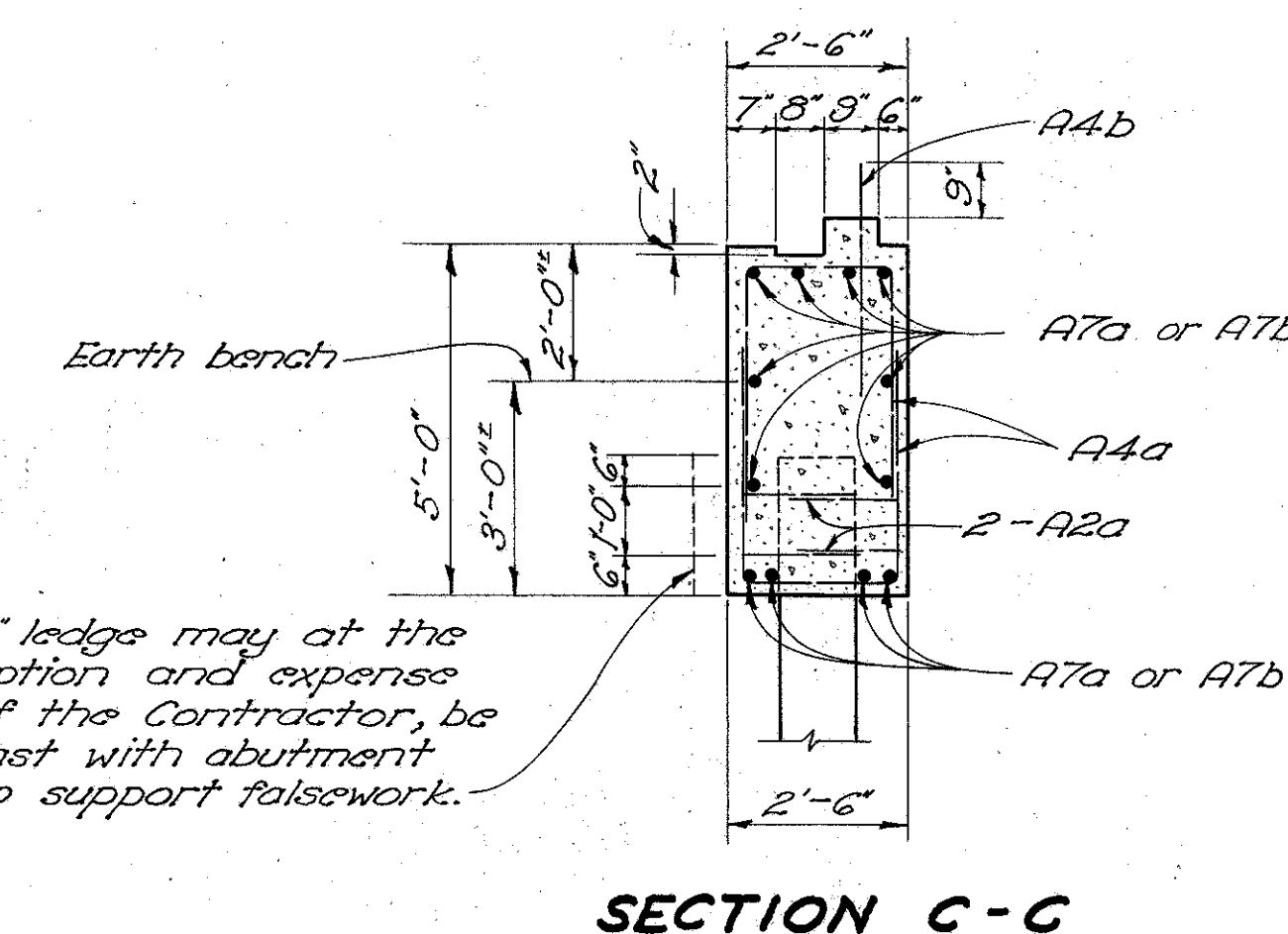
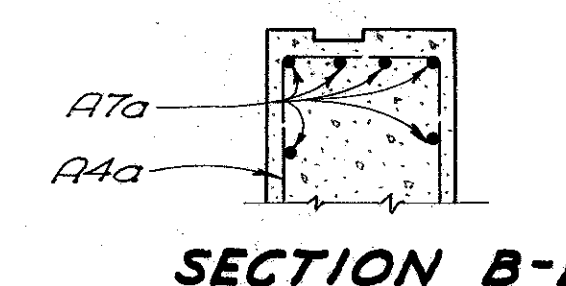
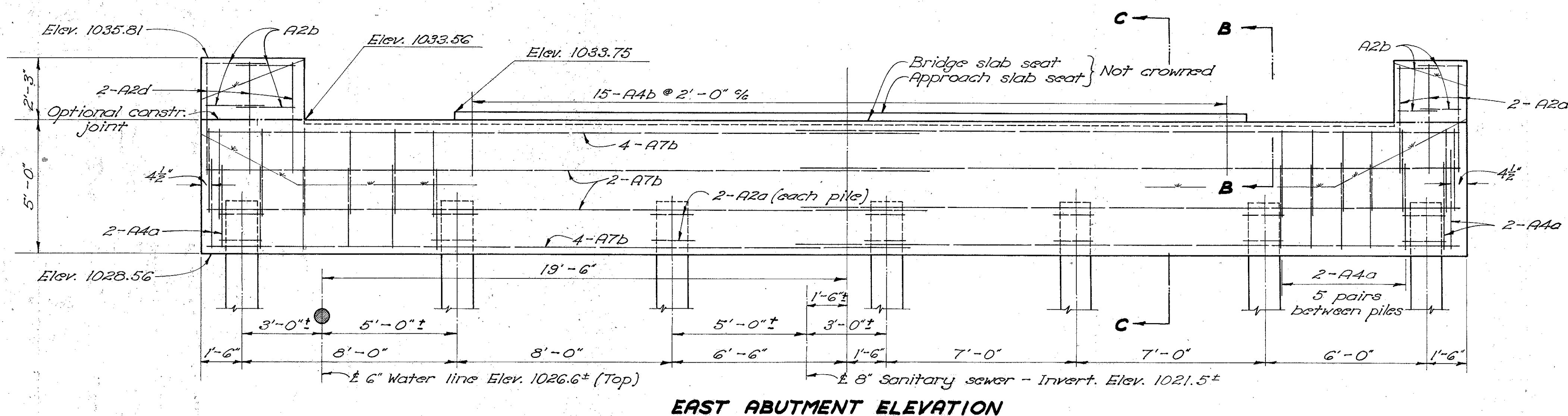
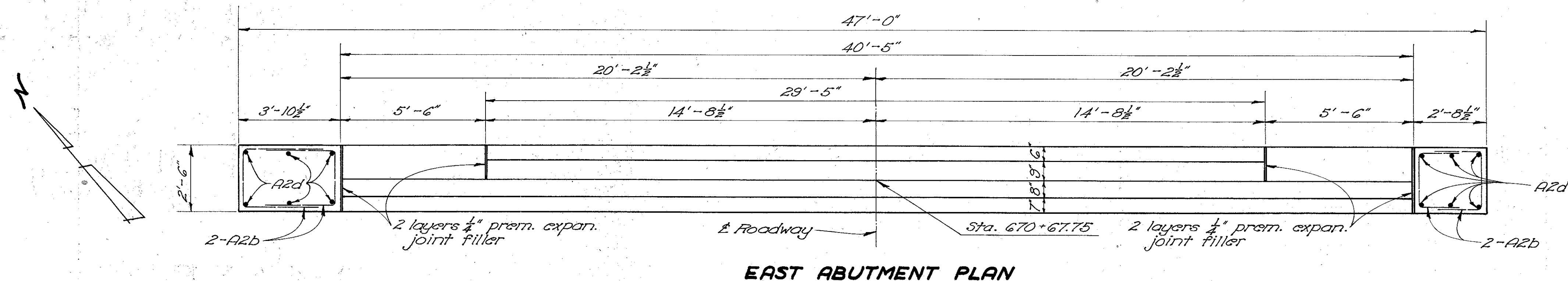
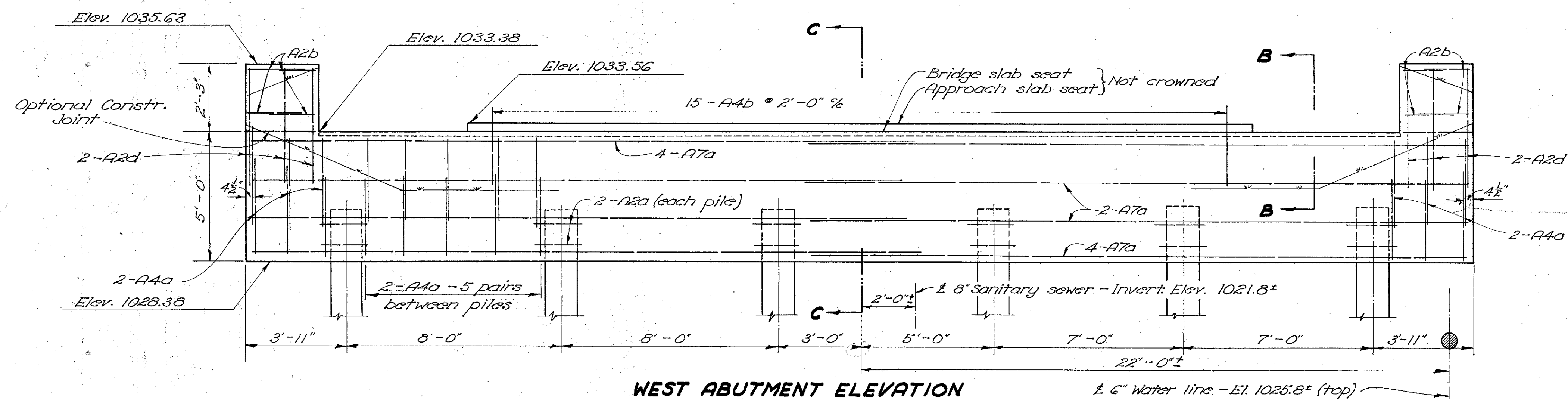
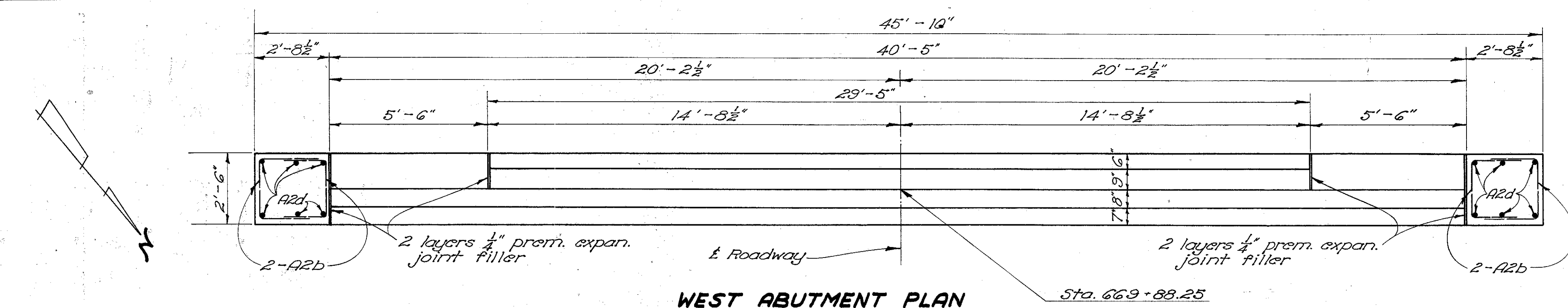
GAS LINE: The existing 2" gas line will be removed by the Owner of the line. After the proposed structure is completed, the Owner will replace the 2" gas line in a conduit which is to be provided in the sidewalk on the South Side of the new bridge. All labor and material necessary for the installation of the gas line, including the conduit full length of the structure, will be furnished by the Owner, but the Contractor shall cooperate with the Owner in accomplishing this work.

GRAVEL, if used as the course aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class "C" concrete, pier caps.

ESTIMATED QUANTITIES

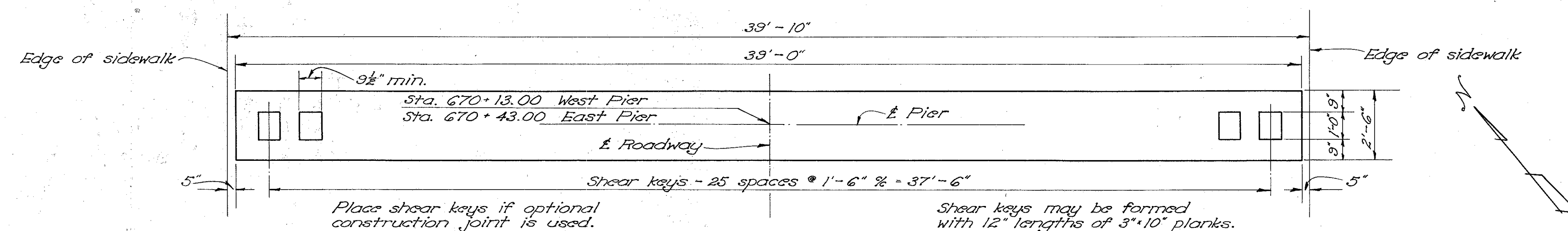
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERST	ABUTS	PIERS	GENERAL	AS BUILT	ITEM	TOTAL	UNIT	DESCRIPTION	SUPERST	ABUTS	PIERS	GENERAL	AS BUILT
E-2	62	cuyd	Unclassified excavation		62				S-16	Lump	Sum	First test pile				Lump	
									S-18	930	lin.ft	14" cast-in-place reinforced concrete piling		380	550		702.2
S-1	193	cuyd	Glass "C" concrete, superstructure & pier caps	170		23			S-24	Lump	Sum	Removal of existing structure				Lump	
S-1	46	cuyd	Glass "C" concrete, abutments		46				S-29	15	cuyd	Porous drains on embankment slopes				15	
S-3	247	sq.yd	Type "C" waterproofing	247					S-29	160	lin.ft	Subdrainage for wearing surface course	160				
S-4	43,433	lbs	Reinforcing steel	35,342	4,657	3,304	130		S-29	20	each	Scuppers, 4" C.I. pipe	20				
S-9	45	sq.ft	1/2" Premolded expansion joint filler	45					T-35	17	cuyd	Asphaltic concrete surface course, Type "A" or "B" (70-80)	17				
S-14	162.08	lin.ft	Railing (steel with concrete end posts)	162.08													

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS						
GENERAL PLAN & ELEVATION NOTES & ESTIMATED QUANTITIES BRIDGE NO. MA-38-127 OVER OAK RUN MADISON COUNTY SEC. MAD -38-(12.40-12.75) STA. 670+28.00						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TRO	TRO	AOC	R.H.L.	Q.F.	10-22-53	11-16-53

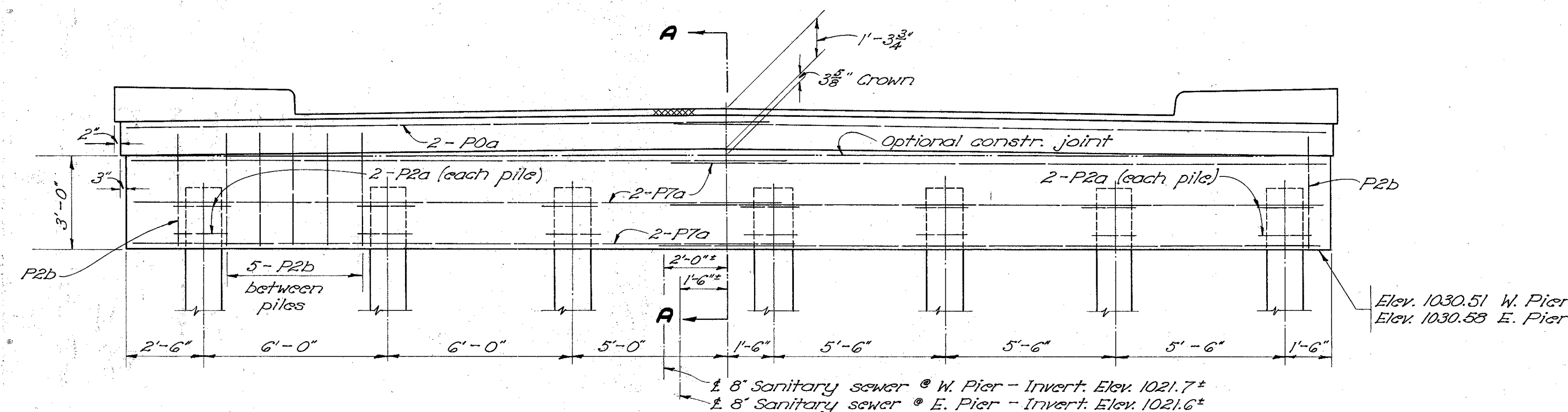


NOTE: Clearance from surface of concrete to reinforcing steel shall be 2" unless otherwise shown.

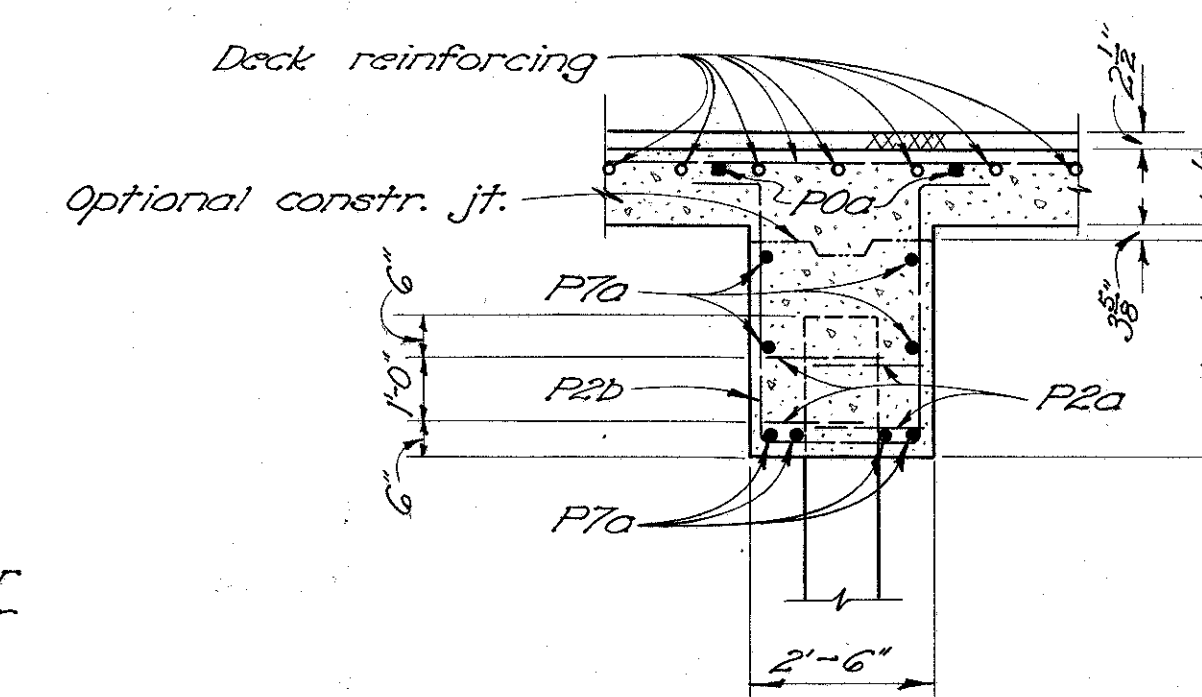
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS					
ABUTMENT DETAILS					
BRIDGE No. MA-38-127 over OAK RUN					
Madison County Sec. MAD-38-(12.40-12.75) Sta. 670+28.00					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
TRO	TRO	JRP	RHL	BFG	9.8.54
					10-22-59



PIER PLAN



PIER ELEVATION



SECTION A-A

Note: Clearance from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

See Std. Dwg. P-1-49 for details of pile encasement.

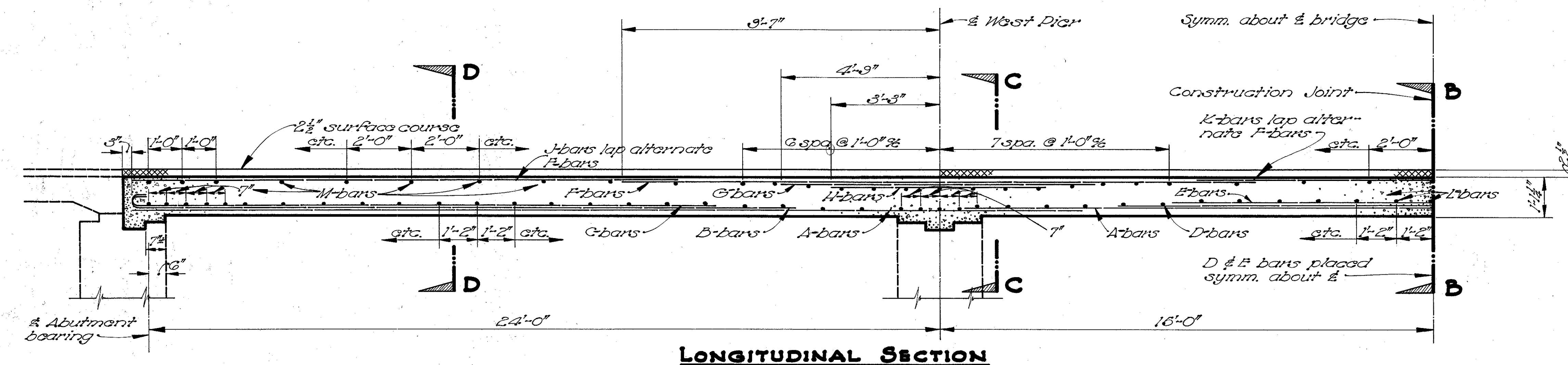
REINFORCING STEEL LIST									
Mark	Size	No.	Length	Weight	Sp.	Bending Diagrams			
Superstructures						Abutments			
A	1"φ	39	28'-6"	7533	S	Piers			
B	1"φ	32	21'-1"	1801	B	RE2	1/2"φ	1	5'-3"
C	1"φ	36	18'-8"	1794	B	RE4	3/8"φ	1	5'-7"
D	1"φ	16	19'-3"	822	S	RE5	3/4"φ	1	5'-11"
E	1"φ	18	16'-0"	769	S	RE7	1"φ	1	6'-6"
F	1"φ	74	18'-6"	4655	S	RE8	1"φ	1	6'-10"
G	1"φ	36	9'-0"	1102	S	RE9	1 1/8"φ	1	7'-2"
H	1"φ	36	6'-3"	765	S	RE0	1 1/4"φ	1	7'-6"
J	3/4"φ	38	17'-6"	399	S	Replacement Bars			
K	3/4"φ	19	17'-0"	485	S				
L	3/4"φ	77	39'-3"	4539	S				
M	3/4"φ	55	39'-3"	3242	S				
N	1 1/8"φ	30	29'-4"	3787	S				
O	5/8"φ	630	2'-7"	1698	B				
P	5/8"φ	210	6'-2"	1351	B				
Railing									
R5a	3/4"φ	16	4'-8"	*	B				

The bar size designations shown above do not correspond with the size designations given in the January 1, 1953 edition of the Construction and Material Specifications.

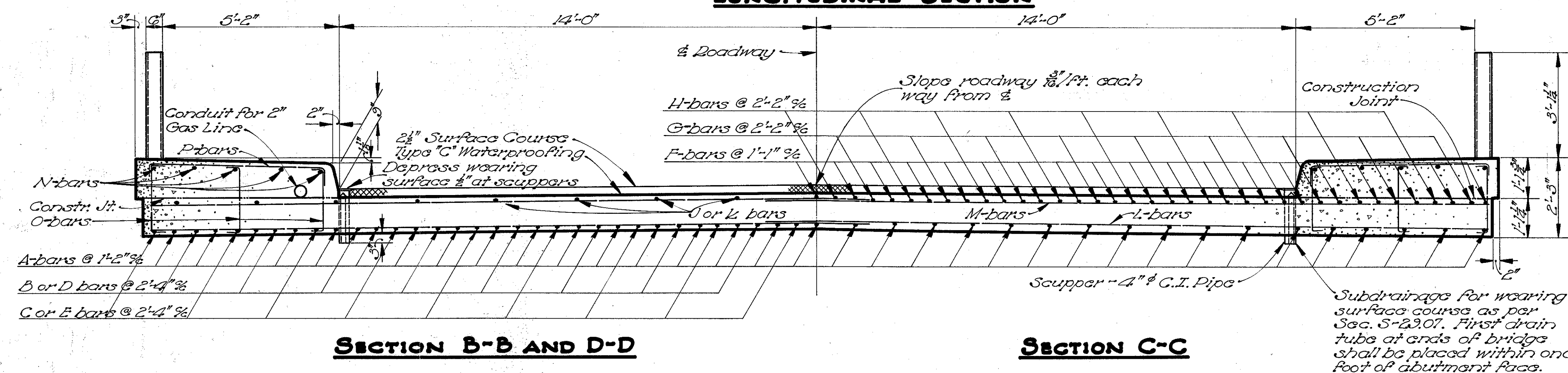
* R5a bars included with railing for payment.

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS					
PIER DETAILS # REINFORCING STEEL LIST BRIDGE No. MA-38-127 over OAK RUN					
Madison County Sec. MAD-38-(12.40-12.75) Sta. 670+28.00					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
TRO	TRO	JFP	R.H.L.	BFG	9.7.53

MAD-38-(12.40-12.75)

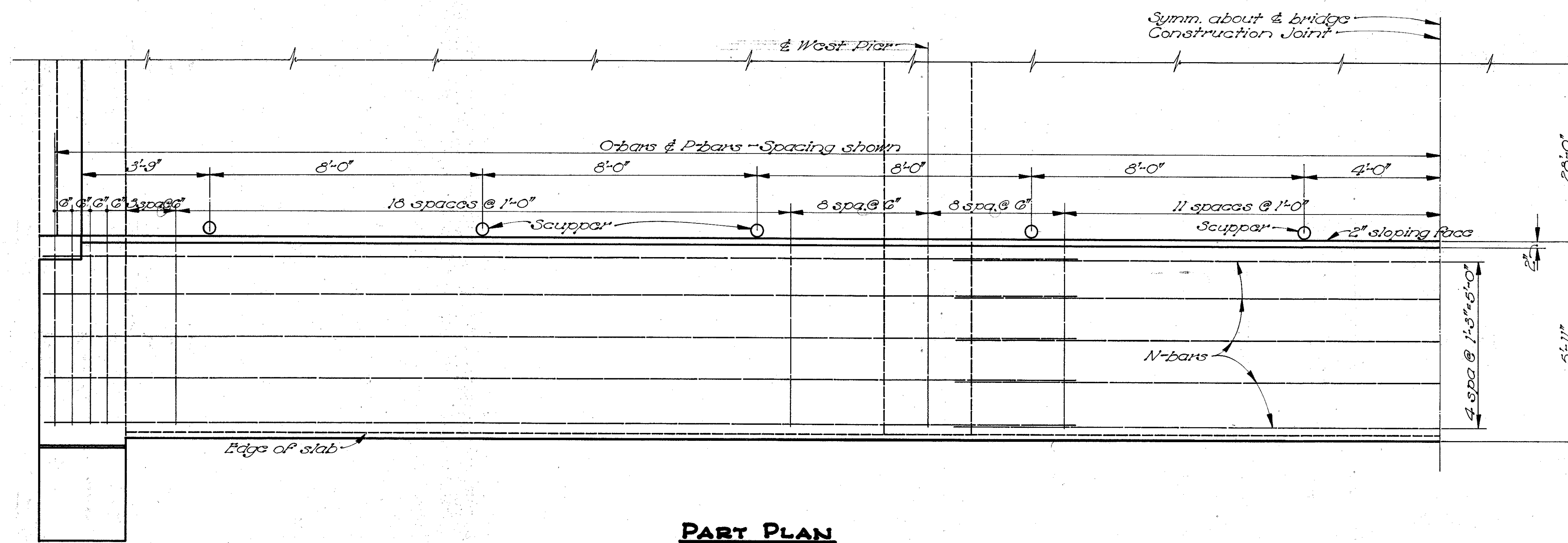


Note: Clearance from face of concrete to reinforcing steel shall be 1" unless otherwise noted.



DECK CONSTRUCTION JOINT

Note: For plan view detail of steel in slab see Std. Drwg. CS-2-47.



STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES AND RAILROAD CROSSINGS						
SUPERSTRUCTURE DETAILS						
BRIDGE NO. MA-38-127 OVER OAK RUN						
MADISON COUNTY SEC. MAD-38-(12.40-12.75) STA. 670 +28.00						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TRO	TRO	J.C.V.	R.H.L.	B.F.G.	10-22-53	

