

The undersigned Commissioners of Cuyahoga County, do hereby certify that the Cleveland-Berlin Road, S.H. No. 694, Sec. Cleveland-Fairview Bridge, known locally as Lorain Road, and particularly the portion thereof contemplated by this improvement, is a public highway 60 to 80 feet wide and available as such for construction, reconstruction, maintenance, repair and all uses necessarily appertaining thereto, subject to all legal consents and restrictions hereon. Local access to properties abutting this improvement shall be provided for and maintained by the Contractor at all times.

John A. Reynolds
 COUNTY COMMISSIONERS
 Date *1/11/34*

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF CONSTRUCTION

LORAIN ROAD VIADUCT

S.H. No. 694 SEC. CLEVELAND - FAIRVIEW BRIDGE # CU.10-88
 CUYAHOGA COUNTY

CITY OF CLEVELAND AND
 FAIRVIEW VILLAGE
 NET LENGTH OF PROJECT 2772.8 LIN. FT.

FED. RD. DIST. NO.	STATE	FED. RD. PROJECT	FISCAL YEAR
10	OHIO		31

CLEVELAND-BERLIN ROAD
 S.H. NO. 694 SEC. CLEVELAND-FAIRVIEW BRIDGE
 CUYAHOGA COUNTY

The Standard Specifications of The State of Ohio, Department of Highways, in force on date of contract, together with Supplemental Specification on Welding will govern this improvement.

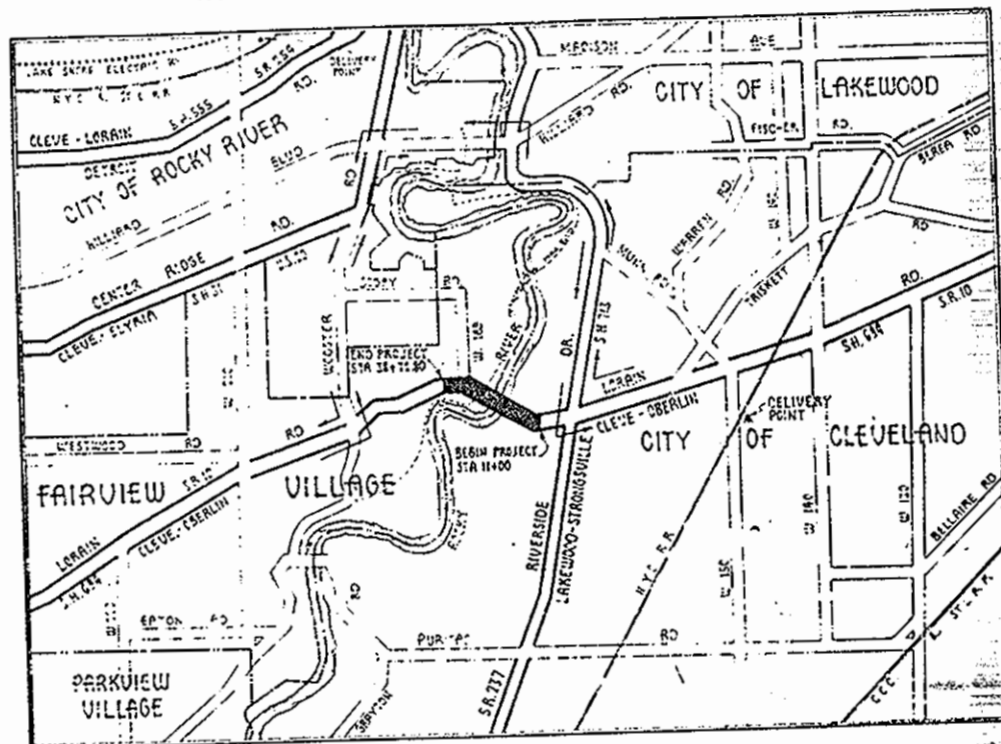
I hereby approve these plans and declare that the making of this improvement will require the closing of this highway to all traffic and that temporary routes will be provided as shown on the plans and estimates.
 The necessary Right of Way has been provided.

CONVENTIONAL SIGNS

STATE LINE	=====
COUNTY LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
CENTER LINE	-----
PROPERTY LINE	-----
CITY OR VILLAGE LINE	-----
FENCE LINE	-----
STEAM RAILROAD	-----
ELECTRIC RAILROAD	-----
POLE LINE	-----
GURD RAIL	-----
DRAIN PIPE - NEW	-----
DRAIN PIPE - OLD	-----

INDEX OF SHEETS

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AVERAGE HAUL 3.0 MILES
 LOCATION PLAN

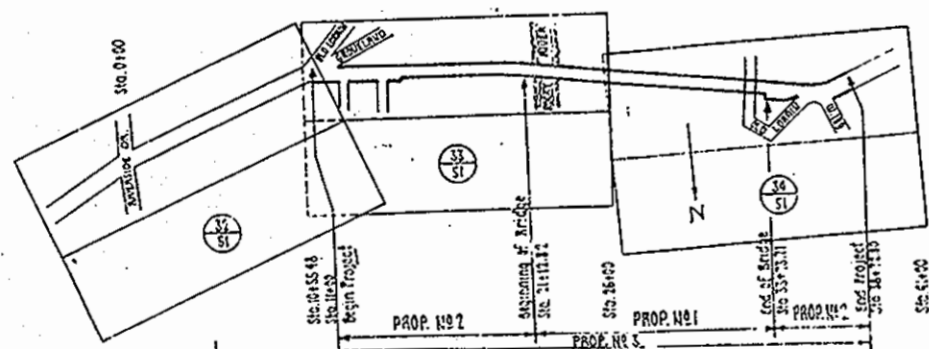
PROPOSAL DESIGNATION

PROP. NO. 1 - Steel Arch Bridge
 from Sta. 21+12.87 to Sta. 33+13.71
 PROP. NO. 2 - Approach work East and West
 of Bridge between Sta. 11+00 and Sta. 38+72.00
 PROP. NO. 3 - All Landscape Improvement
 between Sta. 11+00 and Sta. 38+72.00
 (Ends of Project)

SCALES

PLAN	1" = 50'
PROFILE - VERTICAL	1" = 10'
PROFILE - HORIZONTAL	1" = 50'
CROSS SECTIONS	1" = 5'

SUPPLEMENTAL PRINTS OF STANDARD DRAWING NO. (G-707)
 [B-T-70-71 E, N, P], [B-T-71 E, N, P], [B-T-50-70-71 E, N, P]
 [B-90-E, N, P], [B-71-J], [B-T-71 R], [B-27-PC-3], [B-12-34-5]



ROAD INDEX
 BY SHEETS
 RIGHT OF WAY IS 60 TO 80'
 SCALE 1" = 500'

FILE NO.	CUYAHOGA - 694 - CLEVELAND - FAIRVIEW BRIDGE
DATE OF LETTING	1934
CONTRACT NO.	

Approved *John O. McWilliams*
 Date *10/19/34* Resident District Deputy Director

Approved *John J. Foster*
 Date *10/16/34* Assistant Division Deputy Director

Approved _____
 Date _____ Chief Engineer, Bureau of Maintenance

Approved *J.P. Burkey P.E. #45*
 Date *10-20-34* Chief Engineer, Bureau of Bridges

Approved *Edwin Hill*
 Date *10/22/34* Chief Engineer, Bureau of Construction

Approved *H.B. Chapman*
 Date *10-24-34* First Asst. Director and Chief Engineer

Approved *D.W. Mendenhall*
 Date *10-24-34* Director of Highways

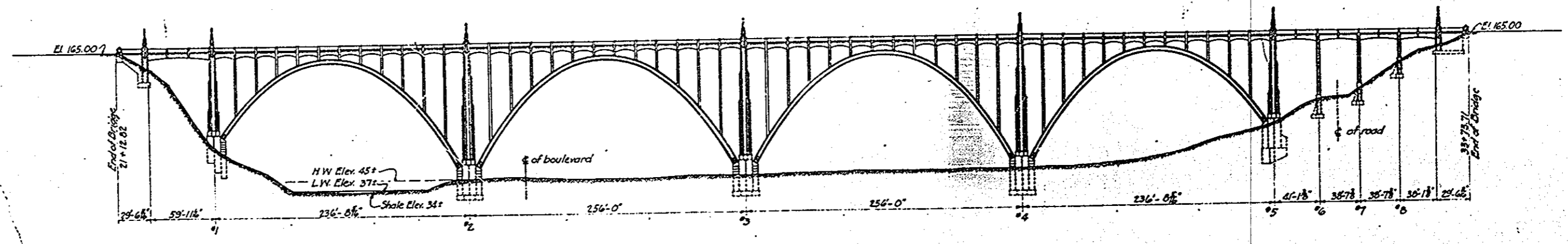
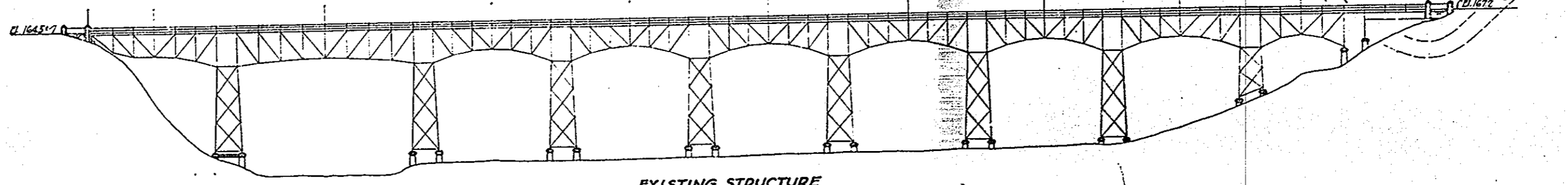
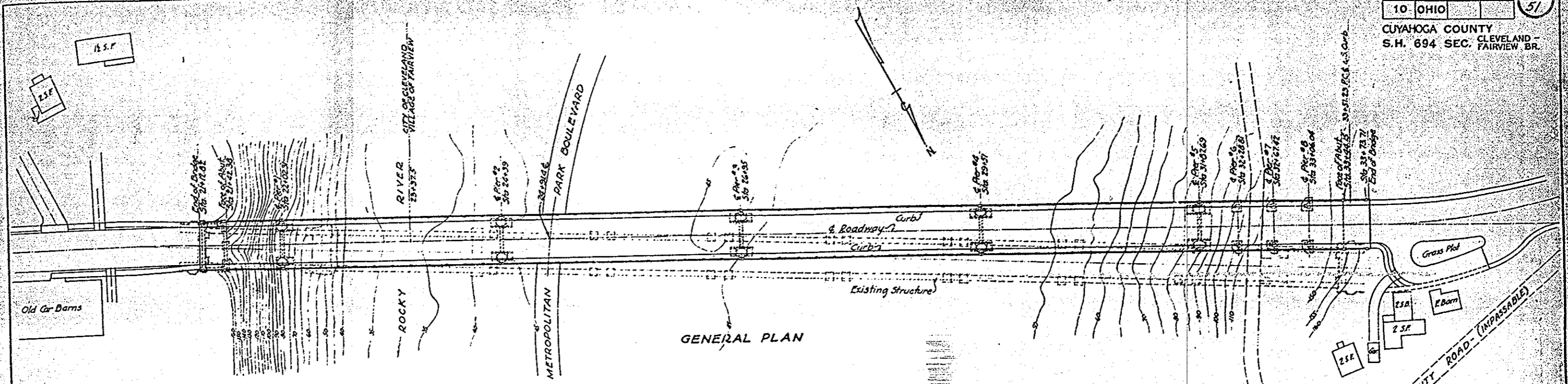
Recommended for Approval _____
 Date _____ District Engineer, Bureau of Public Roads

Recommended for Approval _____
 Date _____ Chief Engineer, Bureau of Public Roads

Chief of Bureau *BR. No. 42*

CHECKING RECORD	
OFFICE	BY
REVISION	
DIVISION	
BUREAU OF MAINTENANCE	
BUREAU OF BRIDGES	
BUREAU OF CONSTRUCTION	
BUREAU OF PUBLIC ROADS	

RECEIVED	APPROVED
DATE	DATE
	Planning Engineer
	DATE



EXISTING STRUCTURE.
 Pin connected steel truss
 1219' length c.c. of end pins
 32.5' width of roadway
 8-5' concrete sidewalks
 26' distance c.c. of trusses
 Wood block wearing surface
 on concrete on bucle plates.
 Sandstone substructure.

**NORTH ELEVATION
 PROPOSED STRUCTURE**

PROPOSED STRUCTURE
 Open spandrel steel arch
 1260.85' length overall
 40' width of roadway
 20' concrete sidewalks
 34.5' distance c.c. of arch ribs
 Concrete deck slabs & substructure
 Brick wearing surface.

BRIDGE NO. CU-10-88

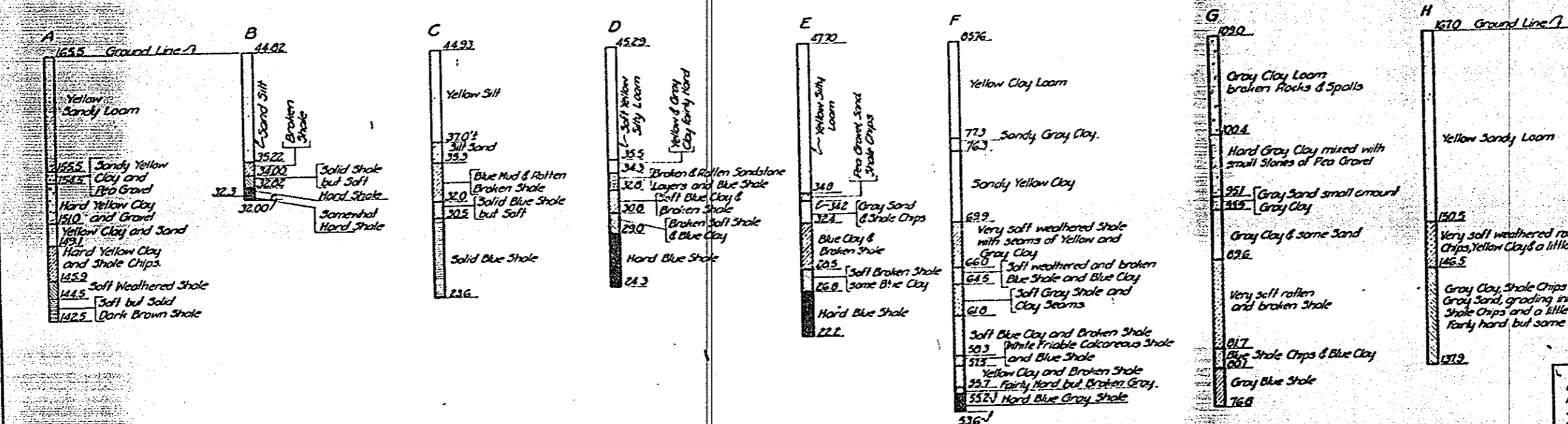
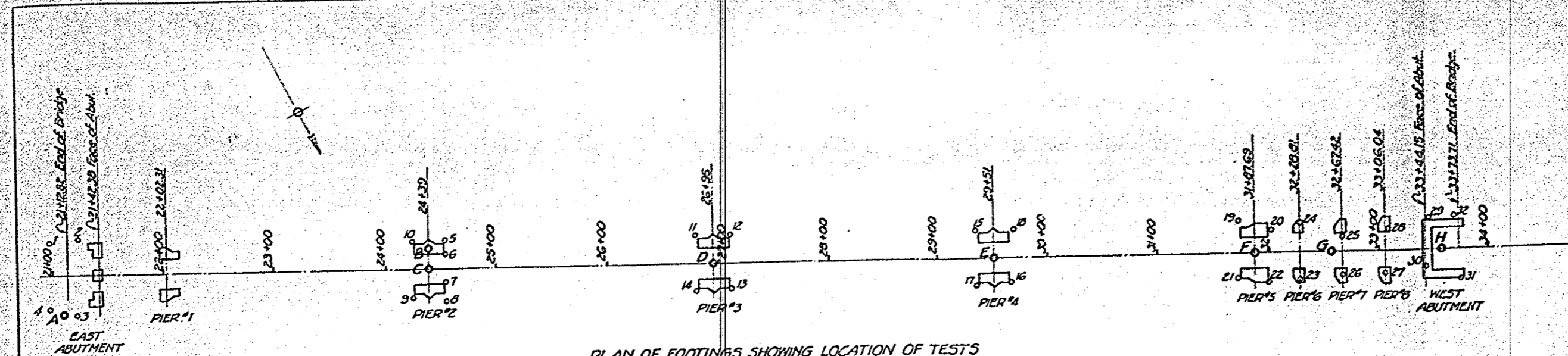
STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION

LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

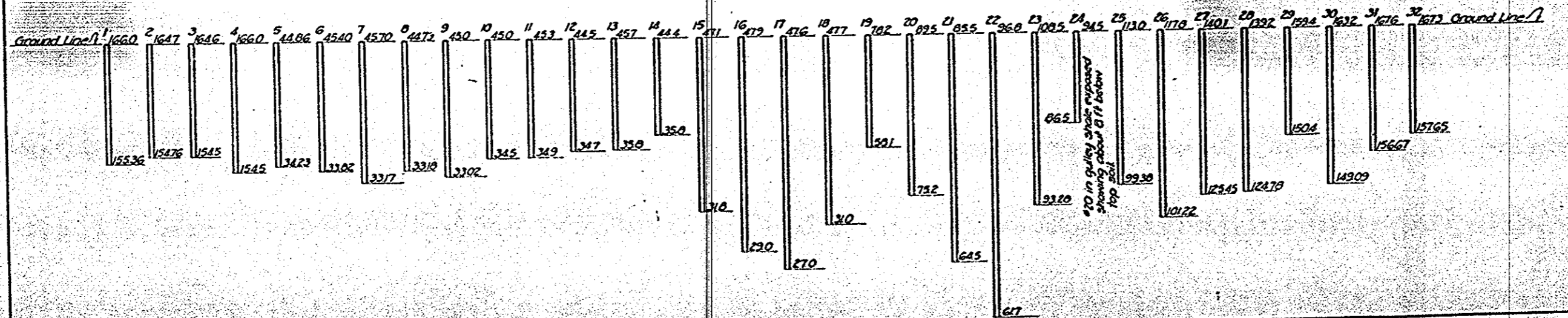
CUYAHOGA COUNTY
 SEC. CLEVELAND - FAIRVIEW BR.

DATE	BY	CHECKED	DATE
12/10/1910	W.H.C.	J.H.C.	12/10/1910



NOTE:
Test Holes A to H incl were taken with a 3" Churn Drill.
Tests 1 to 35 incl were made by driving a 135' steel rod with a 125 lb. drop hammer falling 5 ft. All tests were driven to the same resistance or to the same penetration per blow.

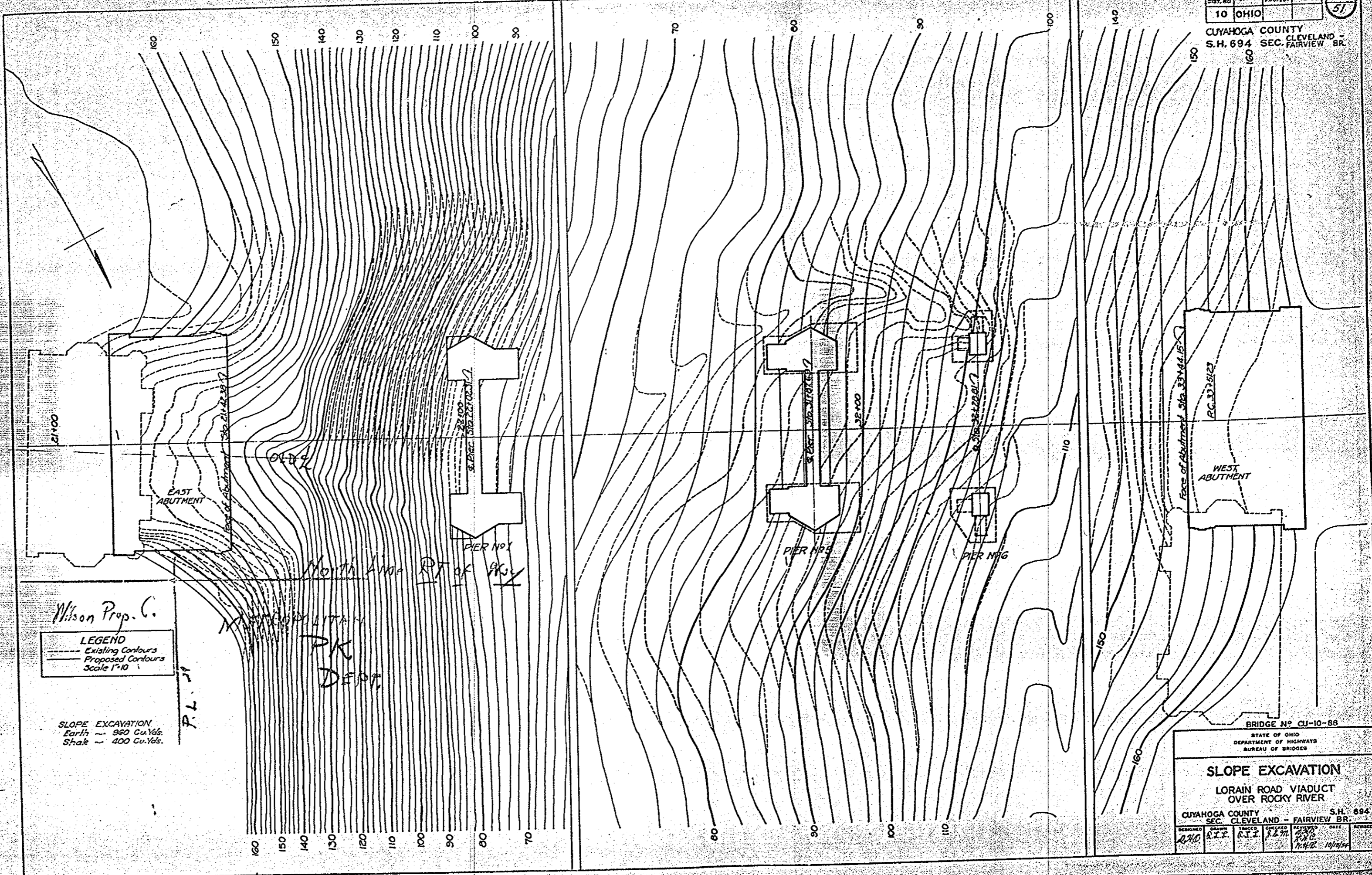
These test hole data were obtained by diligent effort, and are believed to correctly represent the character and location of the sub foundation materials; but the State of Ohio does not guarantee their accuracy.



BRIDGE NO. CU-10-88					
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
FOUNDATION INFORMATION					
LORAIN ROAD VIADUCT OVER ROCKY RIVER					
CUYAHOGA COUNTY SEC. CLEVELAND - FAIRVIEW BR. S.H. 694					
DESIGNED BY	DRAWN BY	CHECKED BY	DATE	APPROVED BY	REVISION
A.H. RIZ	RIZ	J.E. W.	12/29/14	J.E. W.	1/12/14

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		51

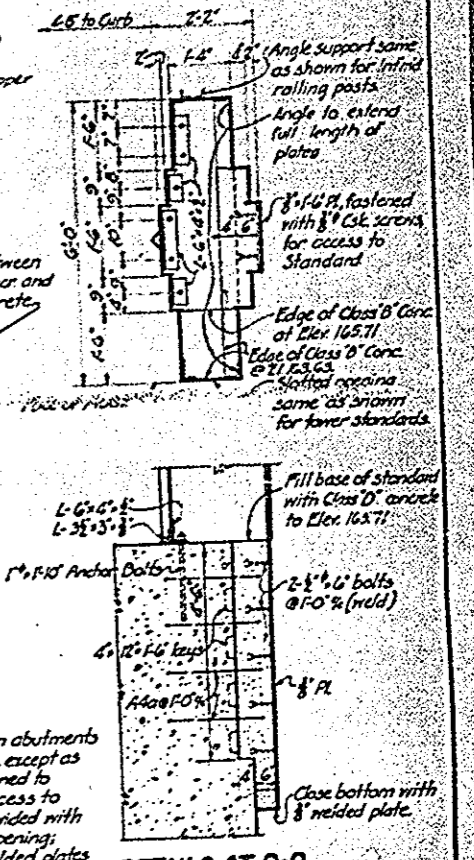
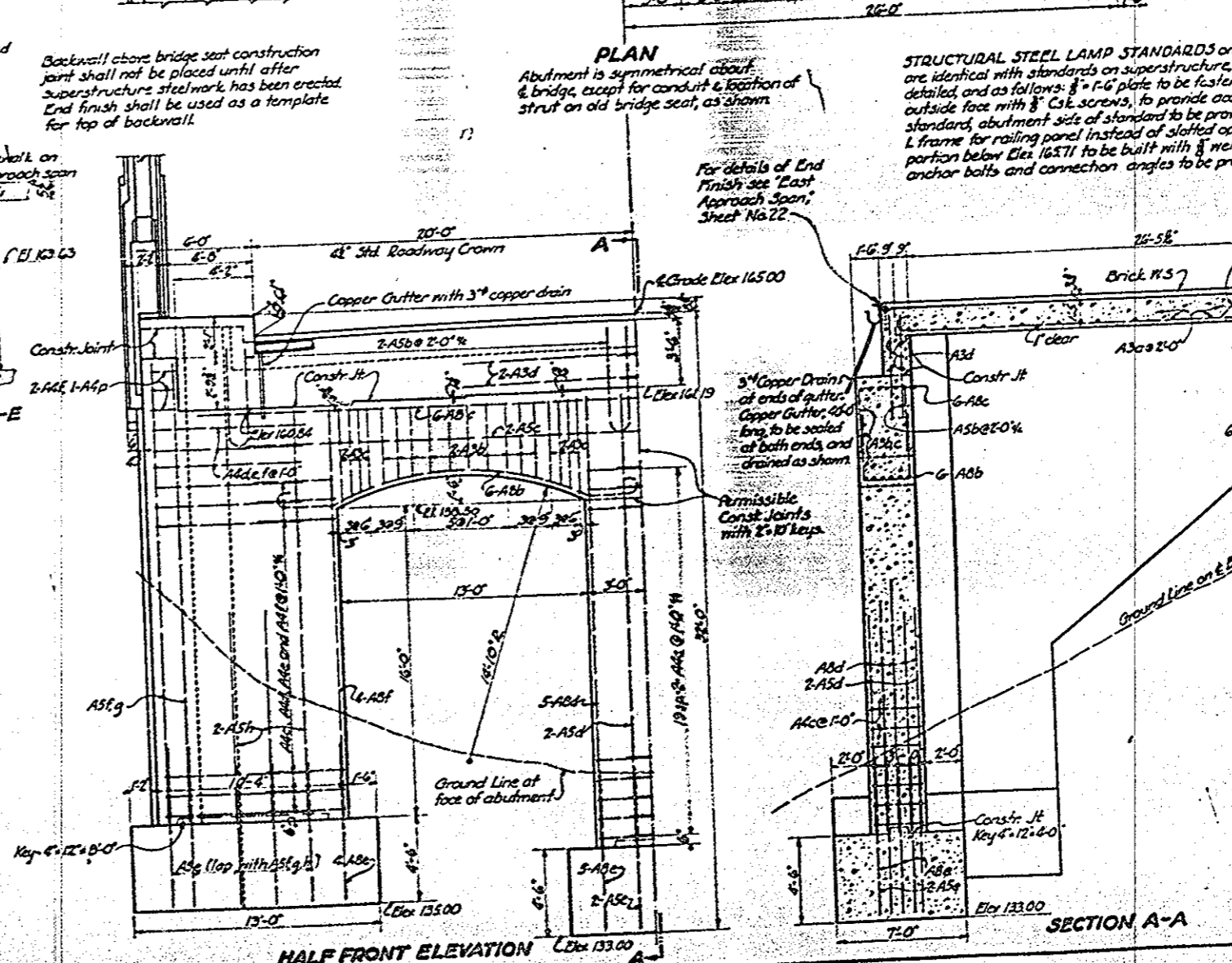
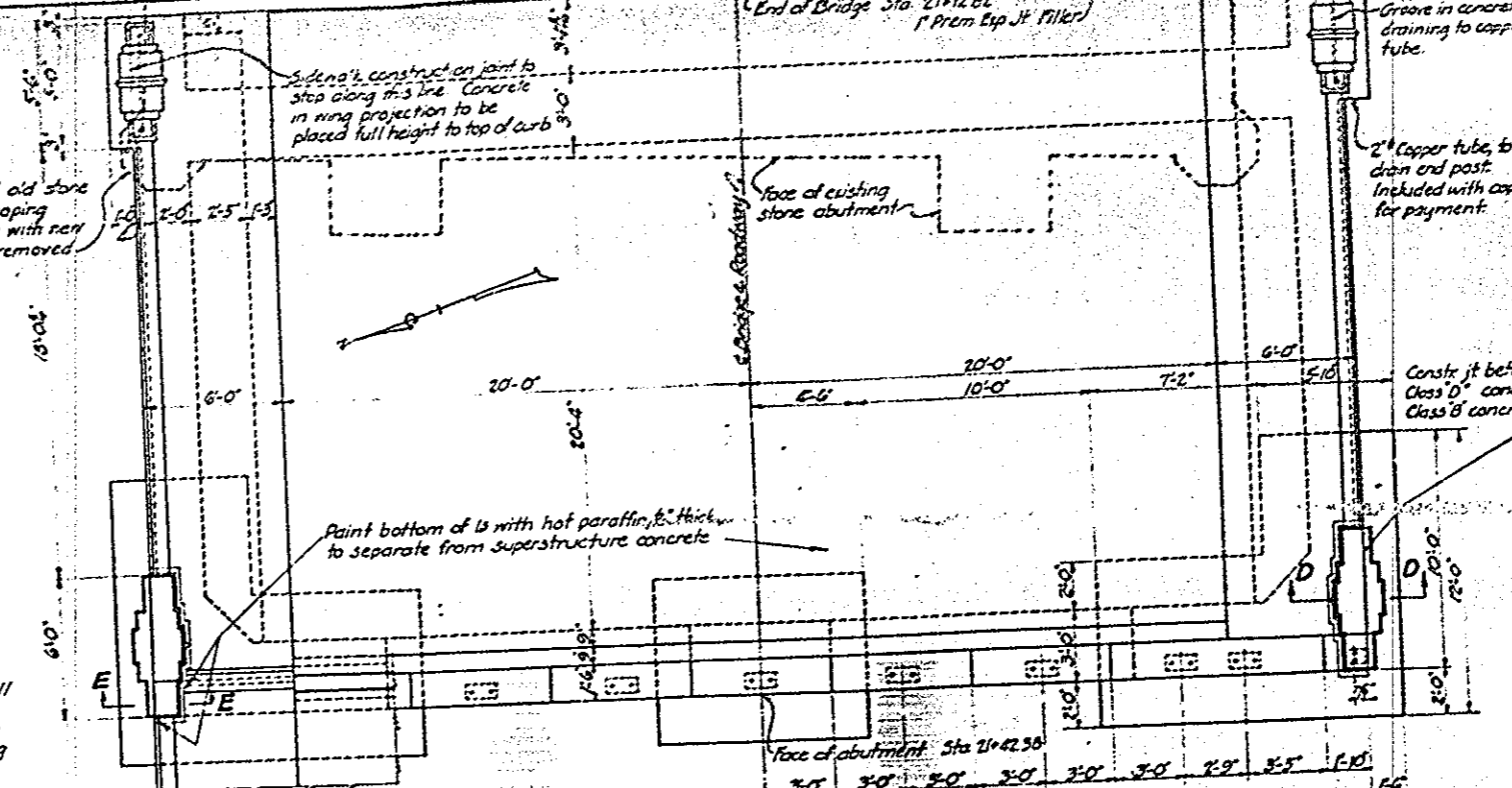
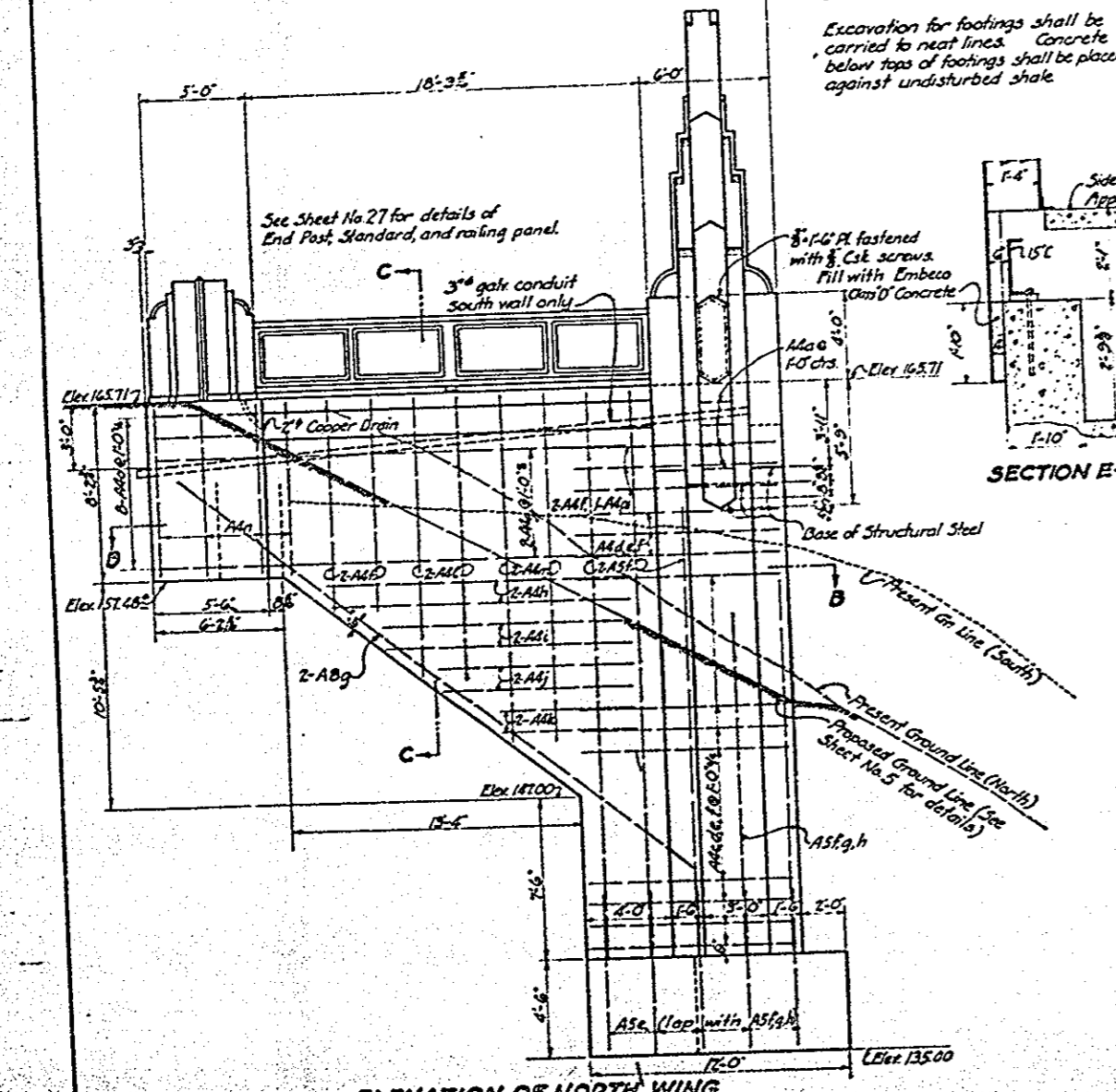
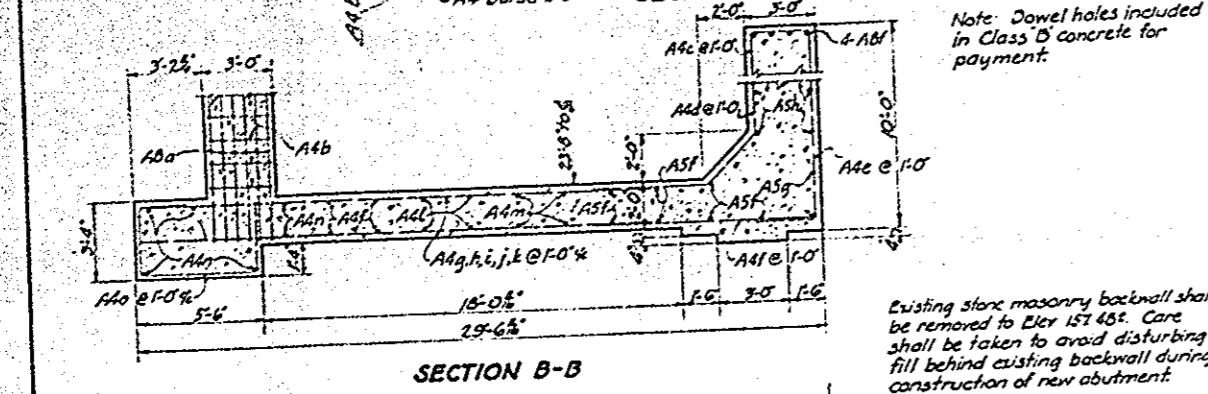
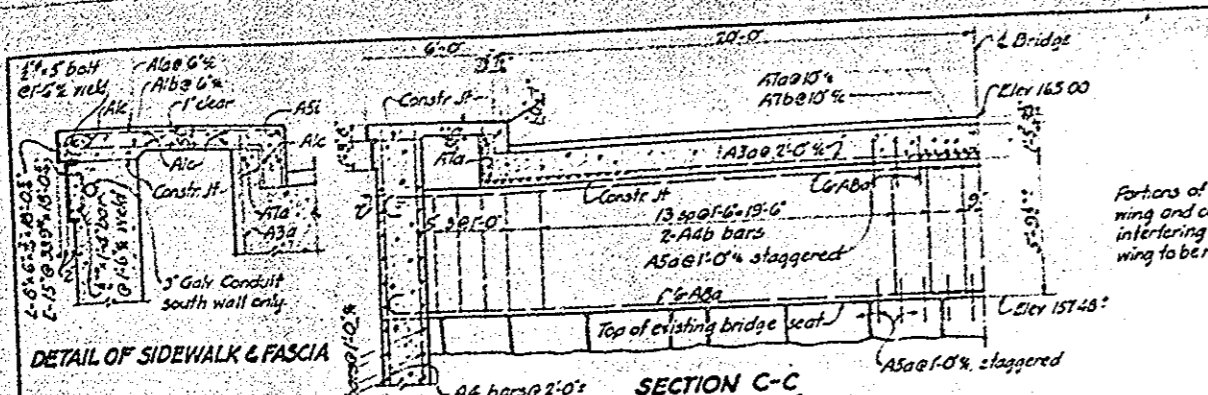
CUYAHOGA COUNTY CLEVELAND -
S.H. 694 SEC. FAIRVIEW BR.



Wilson Prop. C.
LEGEND
Existing Contours
Proposed Contours
Scale 1"=10'
SLOPE EXCAVATION
Earth - 300 Cu. Yds.
Stone - 400 Cu. Yds.

BRIDGE NO. CU-10-88
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
SLOPE EXCAVATION
LORAIN ROAD VIADUCT
OVER ROCKY RIVER
CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694

DESIGNED	CHECKED	DATE	APPROVED
A.S.D.	C.T.T.	12/21	H.H.B. 10/19/50



PLAN
Abutment is symmetrical about centerline of bridge, except for conduit & location of strut on old bridge seat, as shown.

STRUCTURAL STEEL LAMP STANDARDS on abutments are identical with standards on superstructure, except as detailed, and as follows: 8" x 8" plate to be fastened to outside face with 3/4" C&G screws, to provide access to standards; abutment side of standard to be provided with 1" frame for railing panel instead of slotted opening; portion below Elev. 16271 to be built with 3/4" welded plates, anchor bolts and connection angles to be provided.

Note: Dowel holes included in Class D concrete for payment.

Existing stone masonry backwall shall be removed to Elev. 15748. Core shall be taken to avoid disturbing fill behind existing backwall during construction of new abutment.

Excavation for footings shall be carried to next lowest concrete below top of footings shall be placed against undisturbed shale.

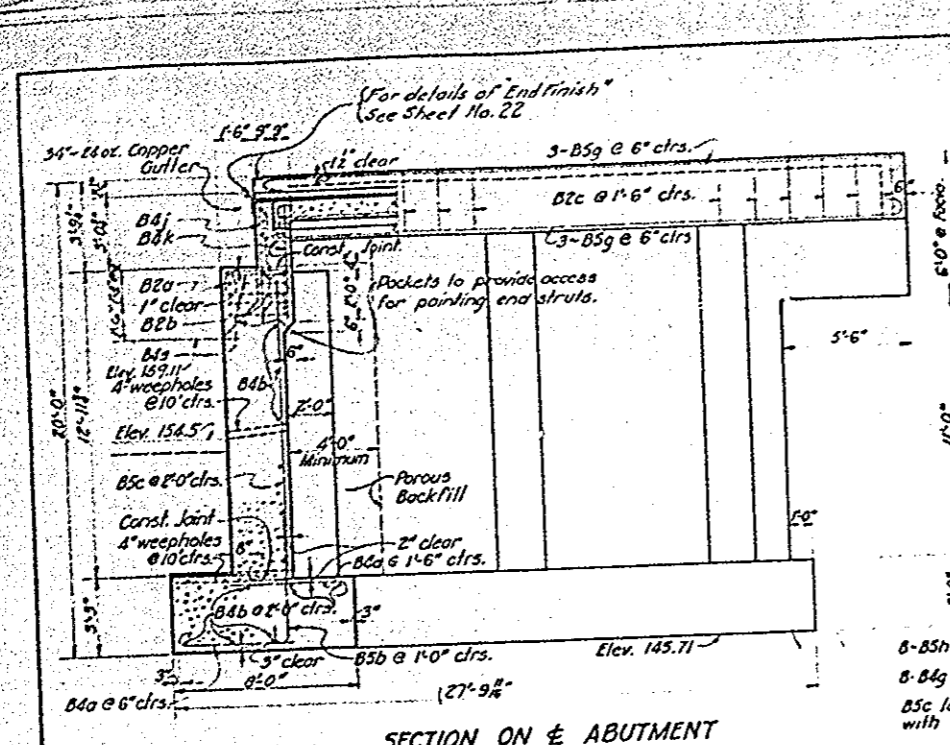
Backwall above bridge seat construction joint shall not be placed until after superstructure steelwork has been erected. End finish shall be used as a template for top of backwall.

Class B Concrete (1:1.5)	257	Cu. Yds.
Class C Concrete (1:3)	51	Cu. Yds.
Class D Concrete (1:5)	1.4	Cu. Yds.
Foundation Excavation (shale)	210	Cu. Yds.

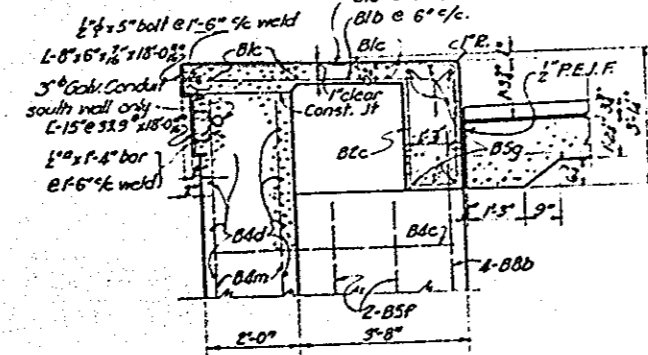
STATE OF OHIO					
DEPARTMENT OF HIGHWAYS					
BUREAU OF BRIDGES					
EAST ABUTMENT DETAILS					
LORAIN ROAD VIADUCT OVER ROCKY RIVER					
CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. 694					
DESIGNED BY	C.P.S.	CHECKED BY	J.E.M.	DATE	10/1/24
APPROVED BY		SCALE	1/4" = 1'-0"		

FED. RD. DIST. NO.	STATE	FISCAL YEAR	PROJECT YEAR
10	OHIO		51

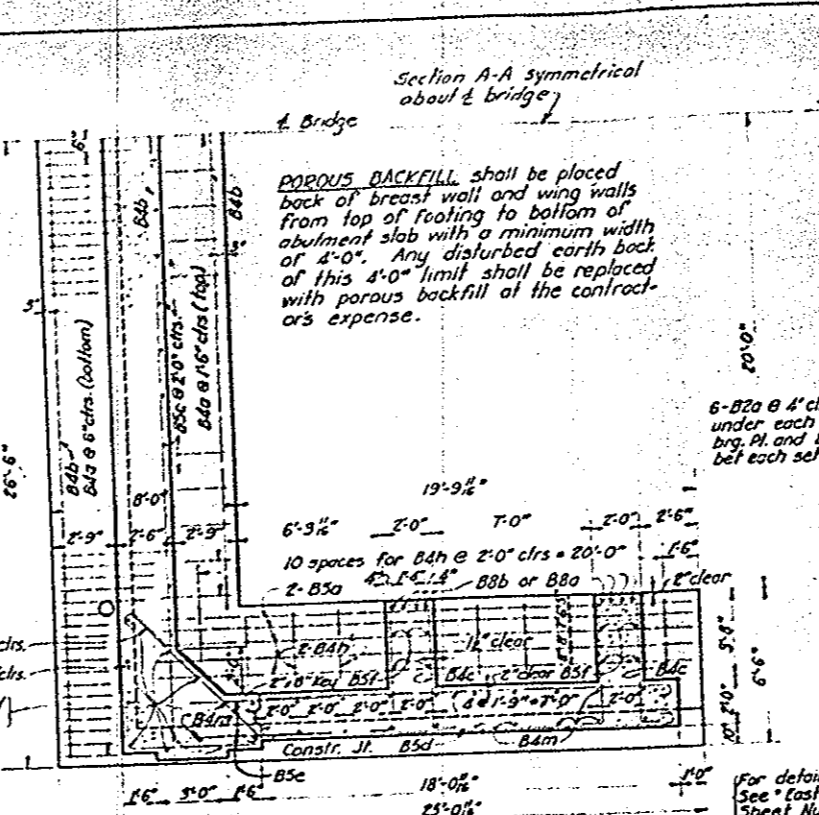
CUYAHOGA COUNTY - CLEVELAND -
S.H. 694 SEC. FAIRVIEW BR.



SECTION ON E ABUTMENT



DETAIL OF SIDEWALK & FASCIA

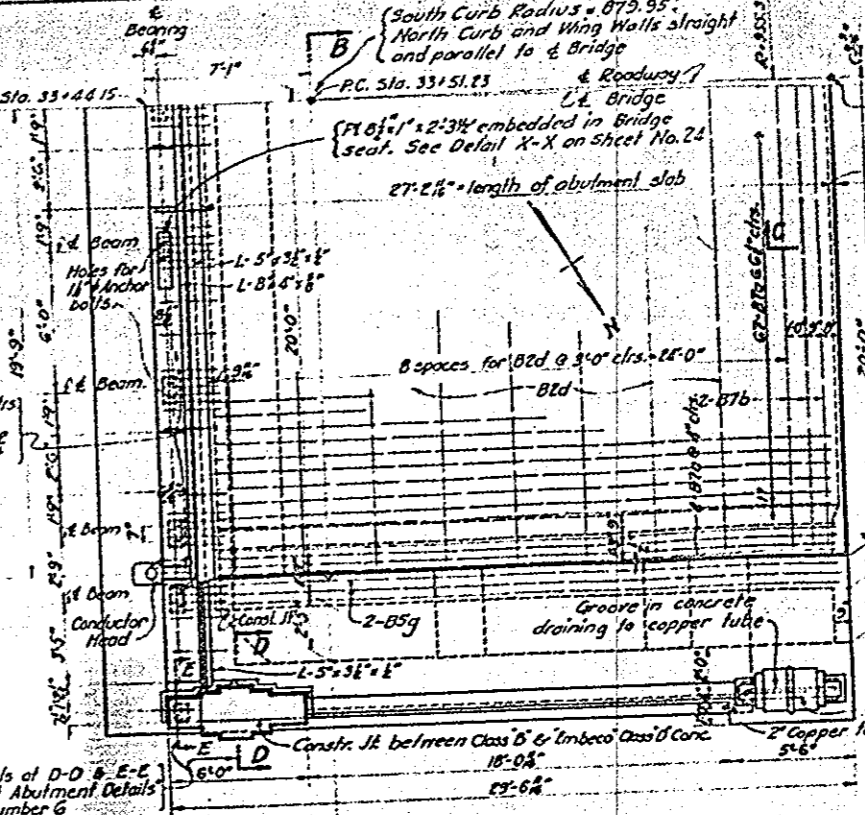


SECTION A-A

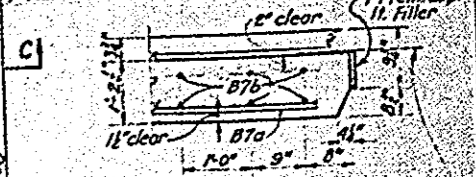
BACKWALL above bridge seat construction joint shall not be placed until after superstructure steel work has been erected. End Finish shall be used as a template for top of backwall.

STRUCTURAL STEEL LAMP STANDARDS: See details and notes on Sheets No. 6 & 27.

WATERPROOFING: Entire back face of abutment and wing walls from top of footing to bottom of sidewalk shall be waterproofed with Type 'A' Waterproofing specified in general notes.



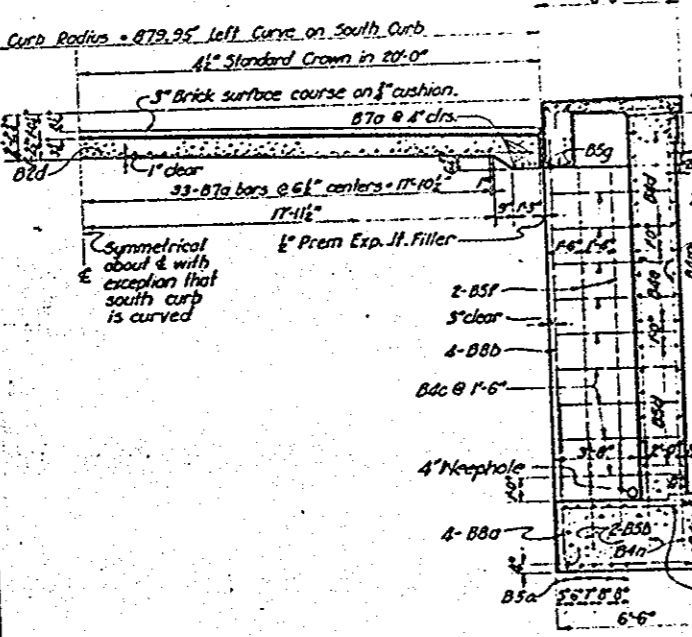
B HALF PLAN



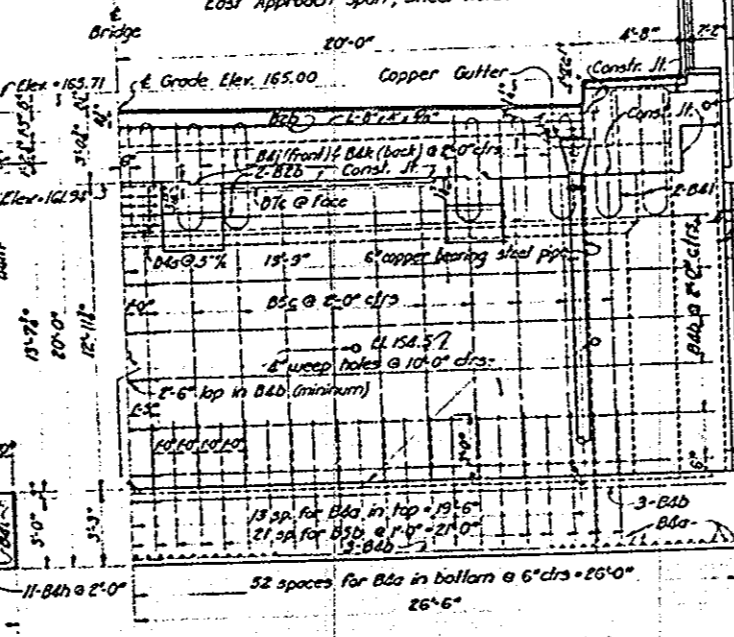
SECTION C-C

Two layers of burlap 2'-0" wide impregnated with Type 'A' Waterproofing. Burlap included with waterproofing for payment.

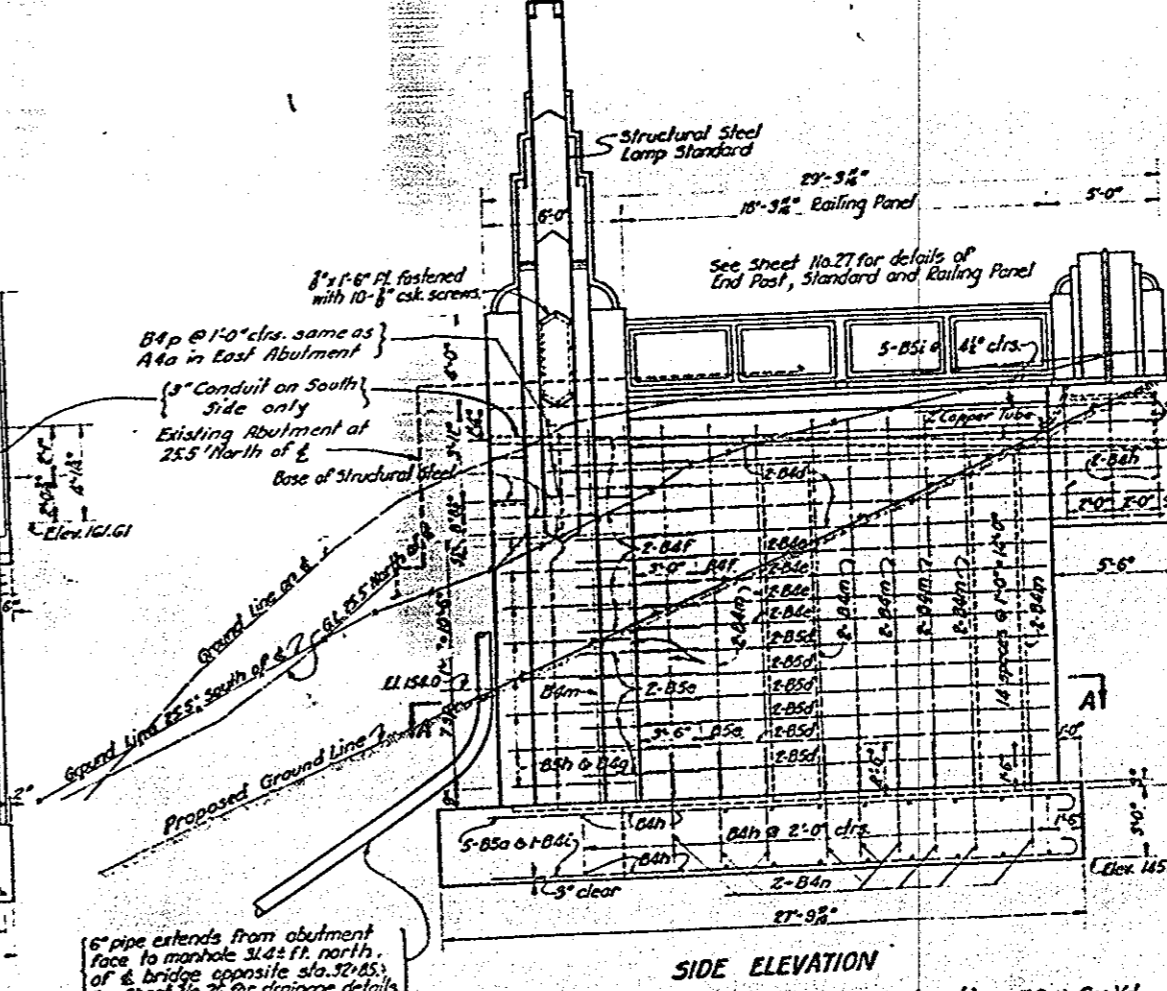
Sidewalk construction joint to stop along this line. Concrete in wing projection to be placed full height to top of curb.



SECTION B-B



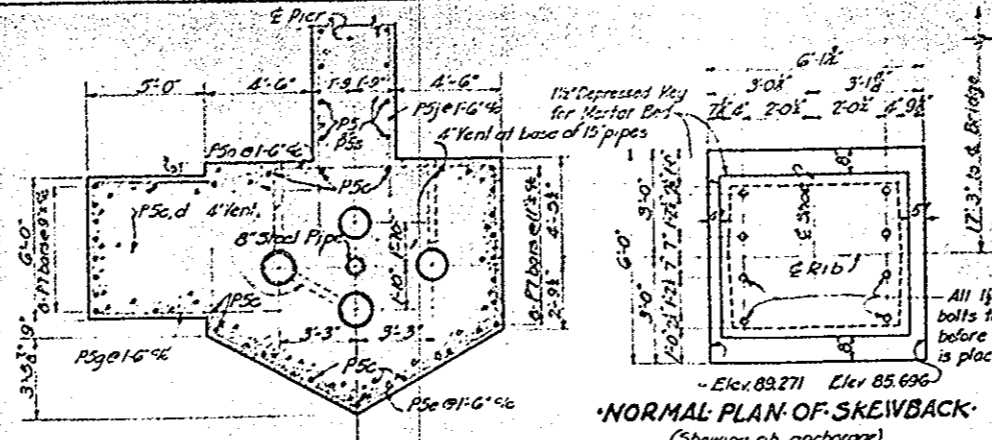
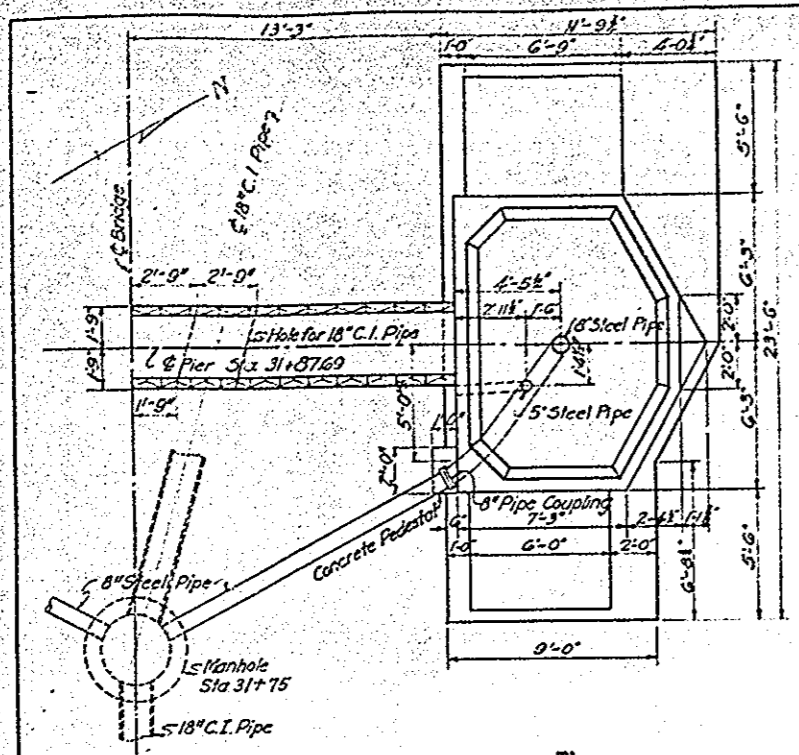
HALF FRONT ELEVATION



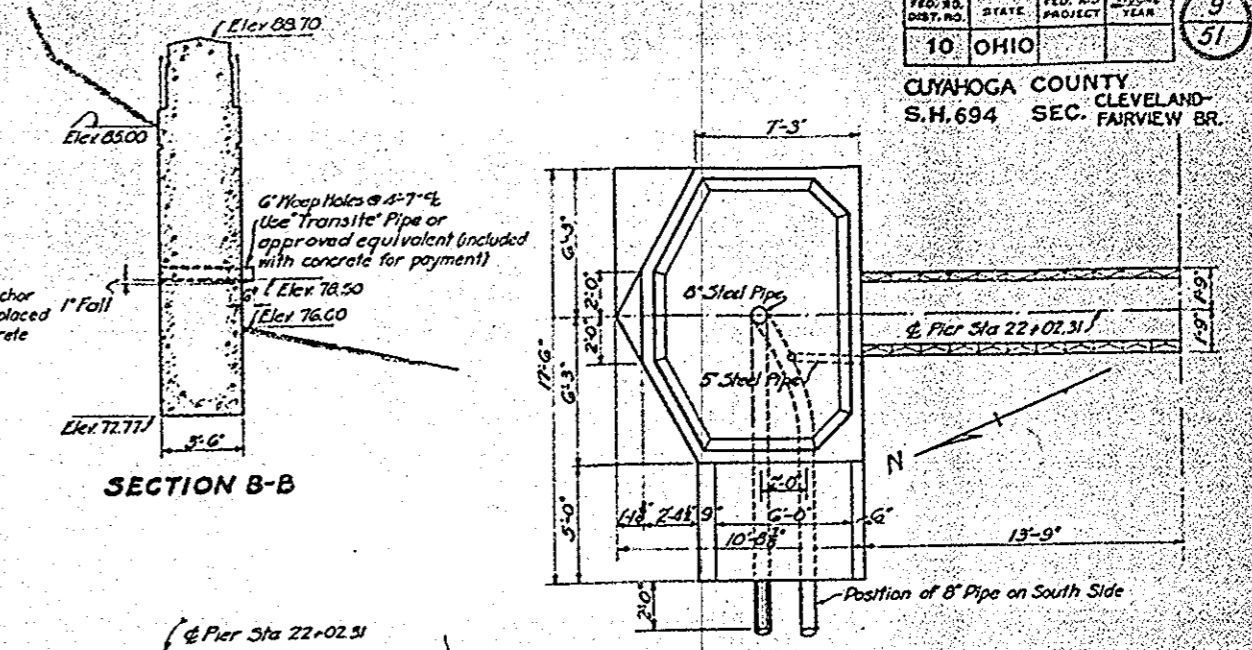
SIDE ELEVATION

Footing Concrete, Class "E" - (1-62) - 78 Cu Yd.
Abutment Concrete, Class "B" - (1-52) - 215 Cu Yd.
Embeco Concrete, Class "D" - (1-52) - 1.4 Cu Yd.
Foundation Excavation, Earth - 680 Cu Yd.

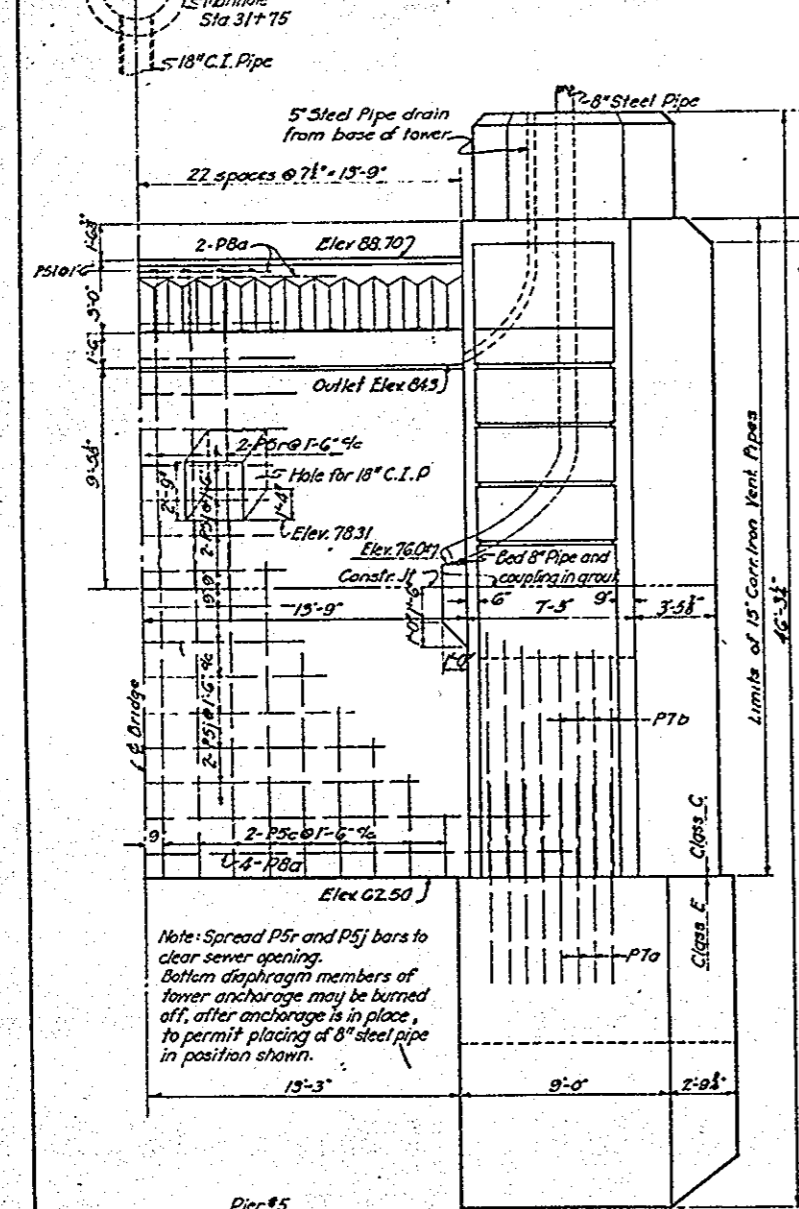
BRIDGE NO. CU-10-88			
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES			
WEST ABUTMENT DETAILS			
LORAIN ROAD VIADUCT OVER ROCKY RIVER			
CUYAHOGA COUNTY		FAIRVIEW BR.	
SEC.	S.H.	DATE	REVISION
694	694	1.6.29	1.6.29
A.A.O.	A.P.S.	R.H.	M.H.E.



SECTION A-A
Typical for Piers 1 and 5. Four 15" Corrugated Iron Ventilator pipes as specified for Piers 2, 3 and 4 to be placed in each pier.

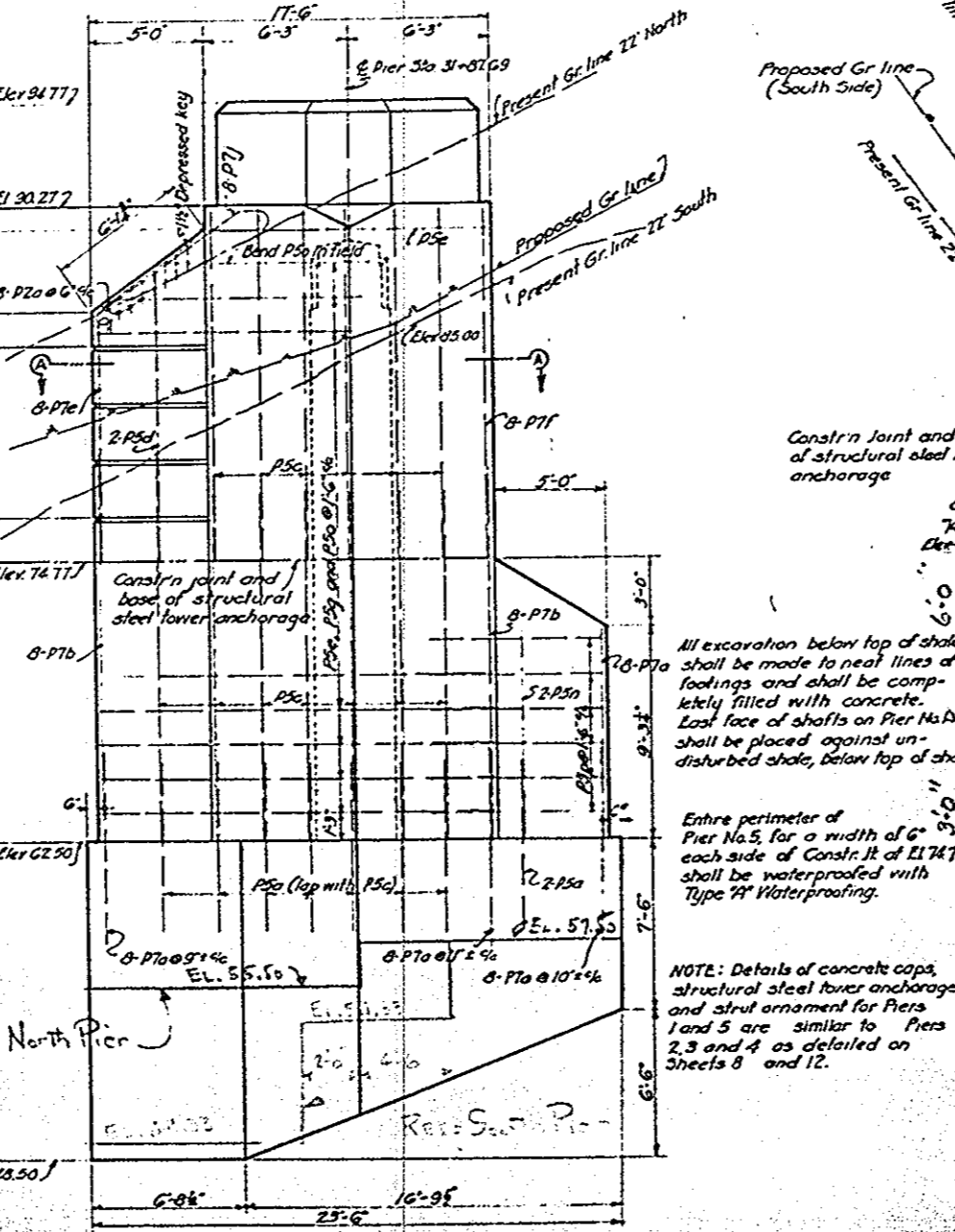


SECTION B-B



Pier #5
Class C concrete 1-5% 423 Cu. Yds.
Class E concrete 1-6% 214 Cu. Yds.
Foundation excavation, Shale 300 Cu. Yds.
Foundation excavation, Earth 465 Cu. Yds.

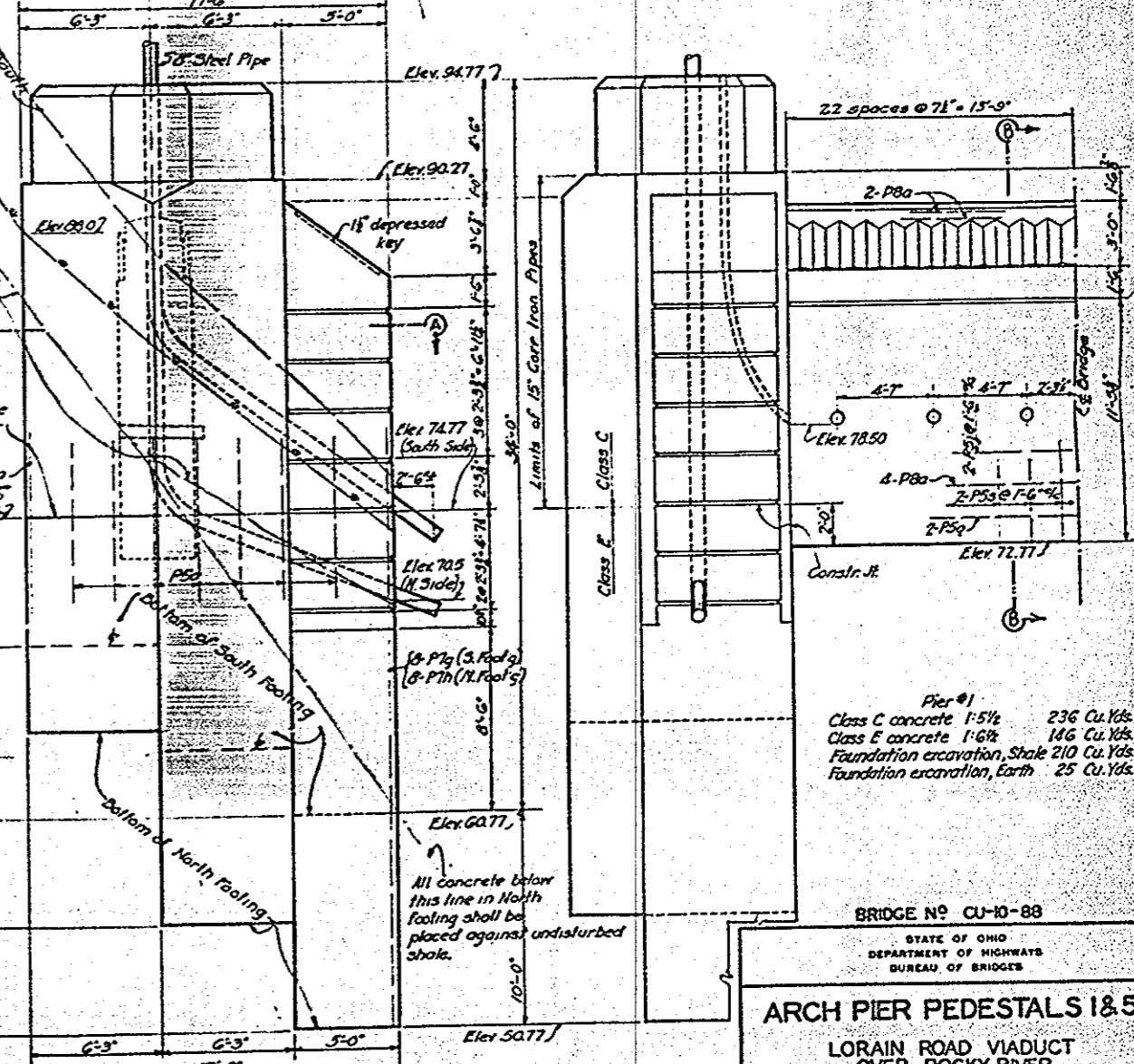
DETAILS - PIER NO. 5
Symmetrical about & except for location of 18" C.I. Pipe



All excavation below top of shale shall be made to neat lines of footings and shall be completely filled with concrete. East face of shafts on Pier No. 1 shall be placed against undisturbed shale, below top of shale.

Entire perimeter of Pier No. 5, for a width of 6'-0" each side of Constr. It. of E17477 shall be waterproofed with Type 'A' Waterproofing.

NOTE: Details of concrete caps, structural steel tower anchorage and steel ornament for Piers 1 and 5 are similar to Piers 2, 3 and 4 as detailed on Sheets 8 and 12.



DETAILS - PIER NO. 1
As indicated above Elev. 74.77 is identical with Pier No. 5, except pss for P8a, and position of lower P8a bars.

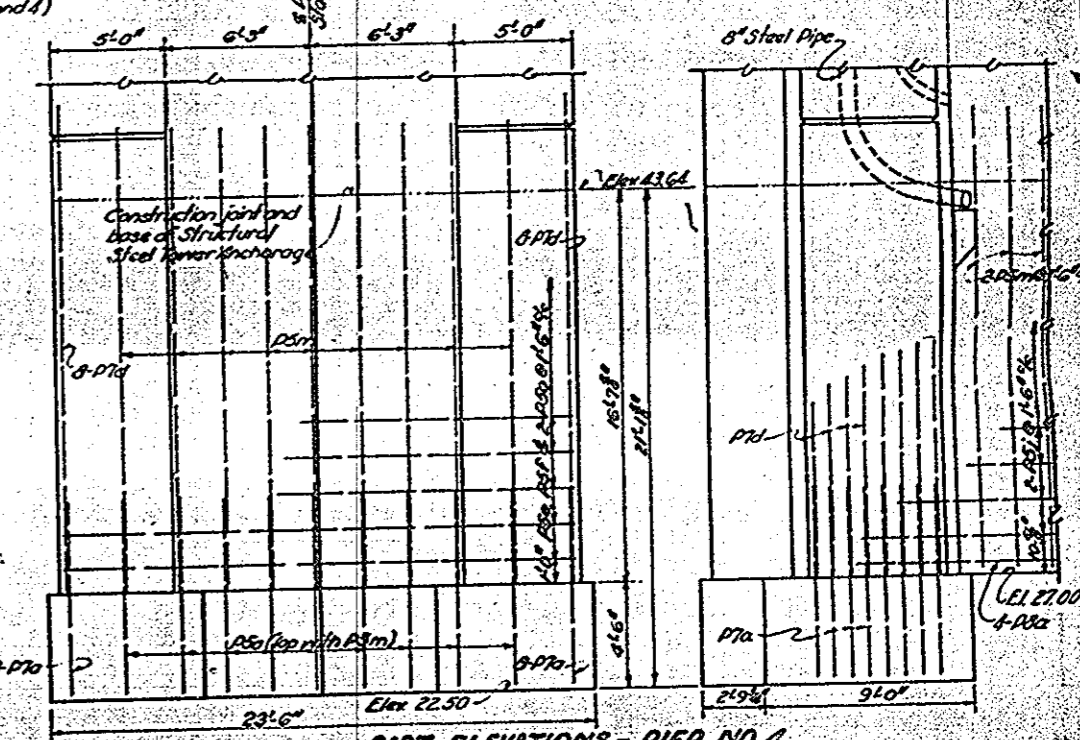
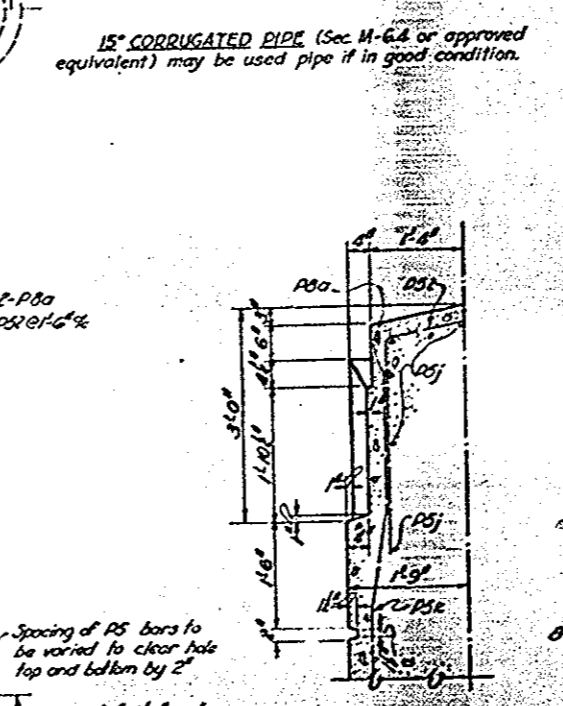
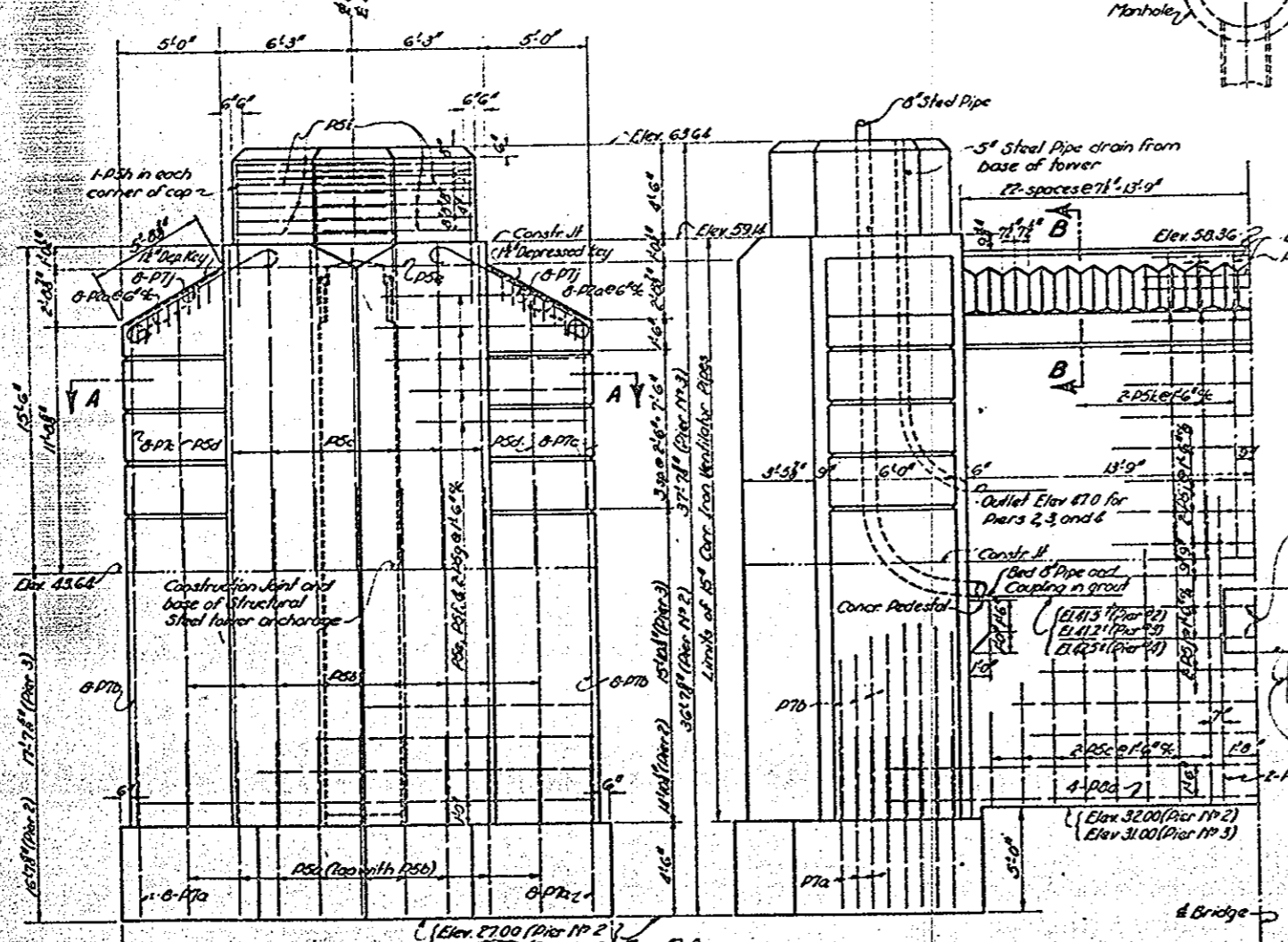
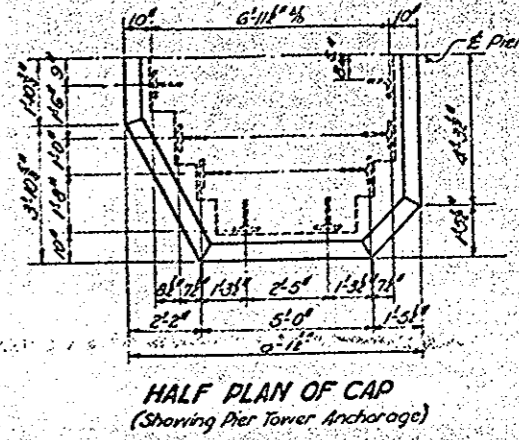
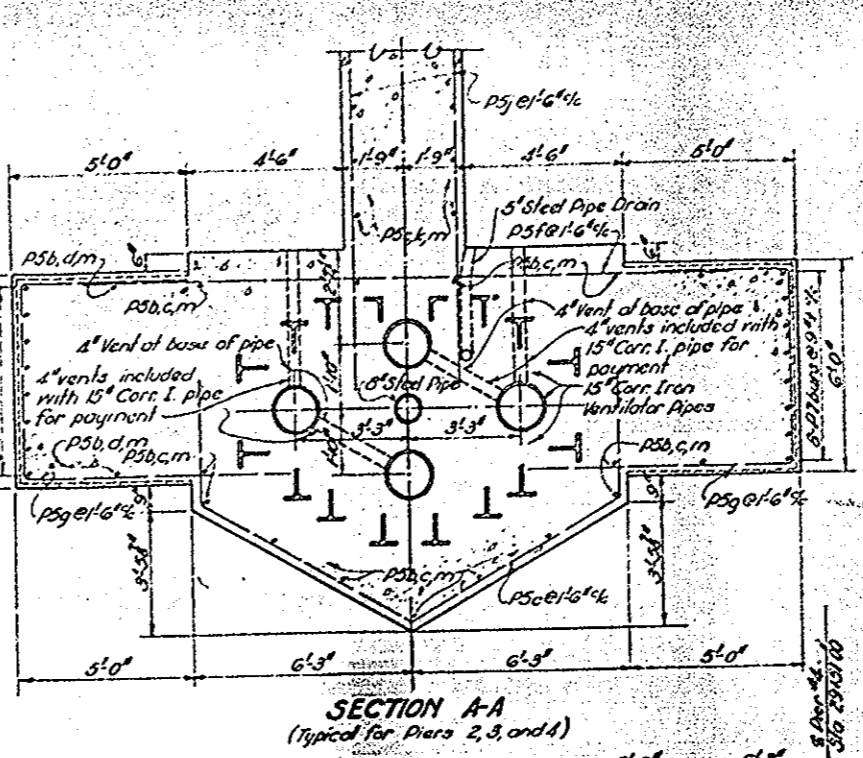
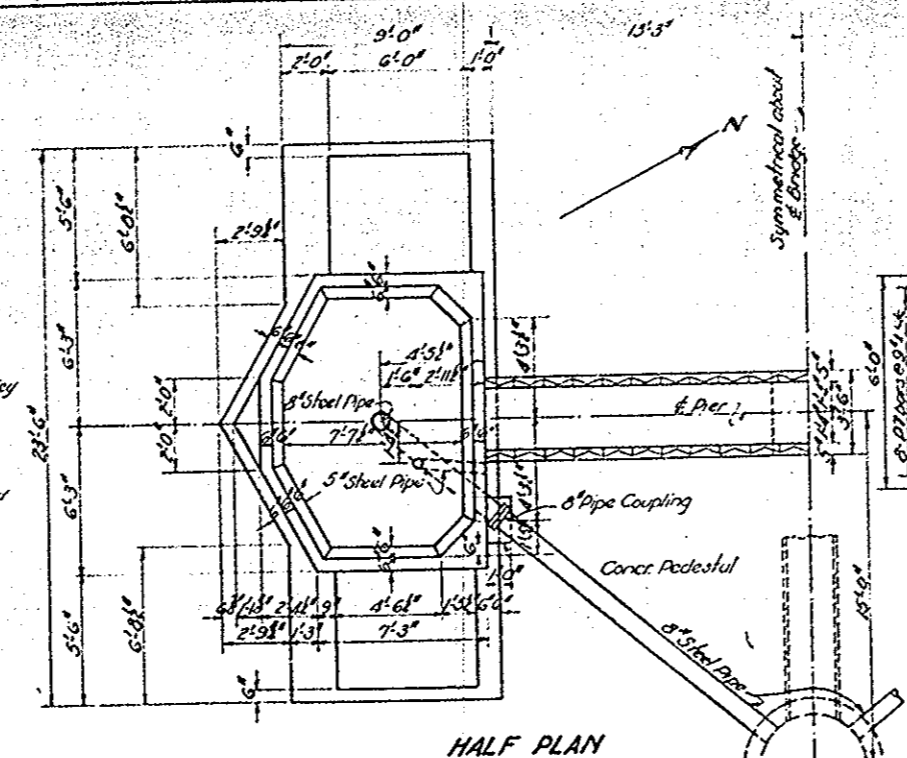
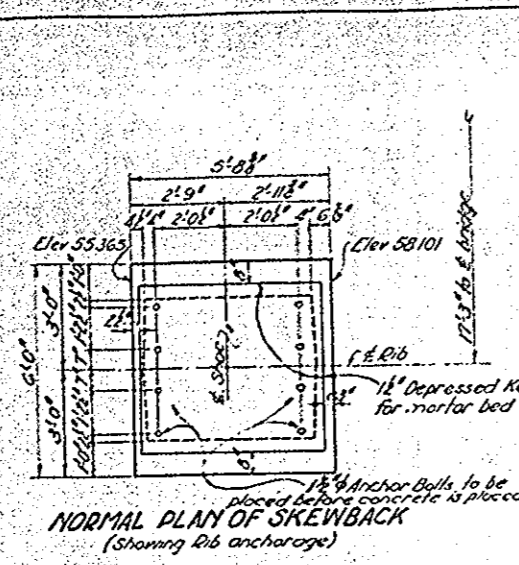
Pier #1
Class C concrete 1-5% 236 Cu. Yds.
Class E concrete 1-6% 146 Cu. Yds.
Foundation excavation, Shale 210 Cu. Yds.
Foundation excavation, Earth 25 Cu. Yds.

BRIDGE NO. CU-10-88
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

ARCH PIER PEDESTALS 1 & 5
LORAIN ROAD VIADUCT
OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND S.H. 694 SEC. FAIRVIEW BR.

DESIGNED	DRAWN	TRACED	CHECKED	DATE
				10/1/54



NOTES
 Reinforcing steel to be 2" (min.) clear of surface.
 See Sheet No. 12 for details of tower anchorage.

Entire perimeter of piers for a width of 6" each side of construction joint at Elev. 43.64 shall be waterproofed with Type 'A' Waterproofing.

Four lines of 15" corr. I. pipe to be placed in each pier base from footing to El. 59.14 to reduce internal heat after concrete is placed. Pipes to extend from top of footings to Elev. 59.14. Tops of pipes to remain open during curing of shafts, but shall be tightly sealed before concrete caps are placed. 4" vents to be provided at base of each pipe, as shown. 4" Vents included with Cor. I. pipe for payment.

PIER NO.	CONCRETE QUANTITIES		EXCAVATION QUANTITIES	
	CONCRETE CLASS. #1	CONCRETE CLASS. #2	EARTH	SHALE
Pier No. 2	432	75	260	150
Pier No. 3	468	75	290	150
Pier No. 4	526	75	410	175

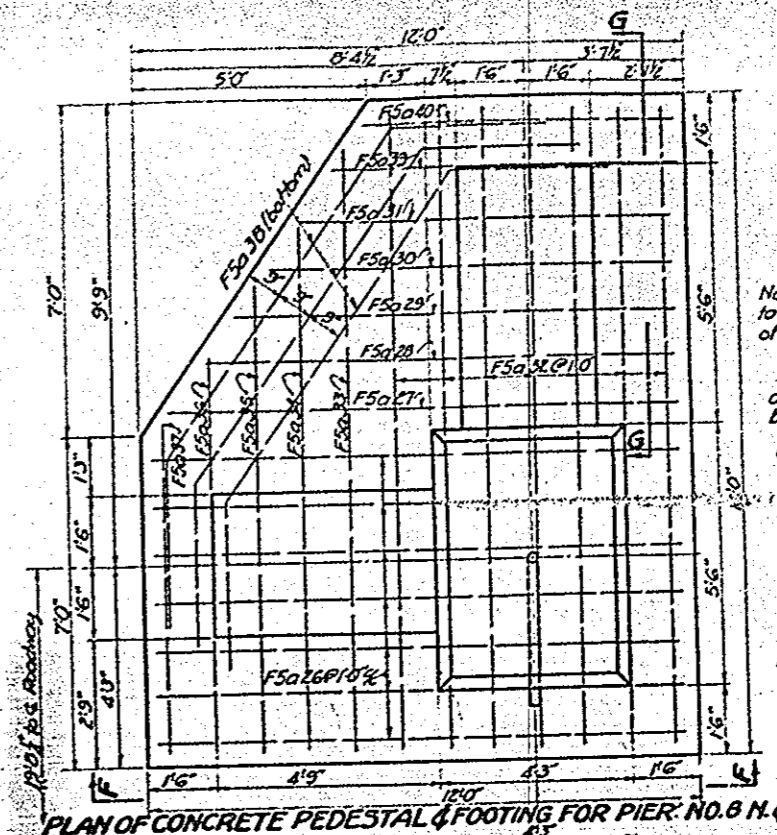
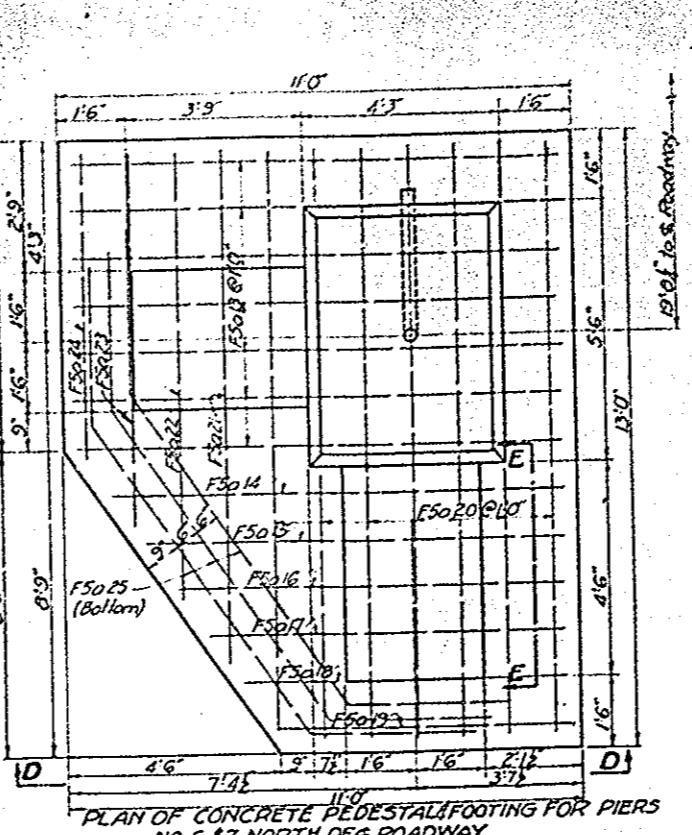
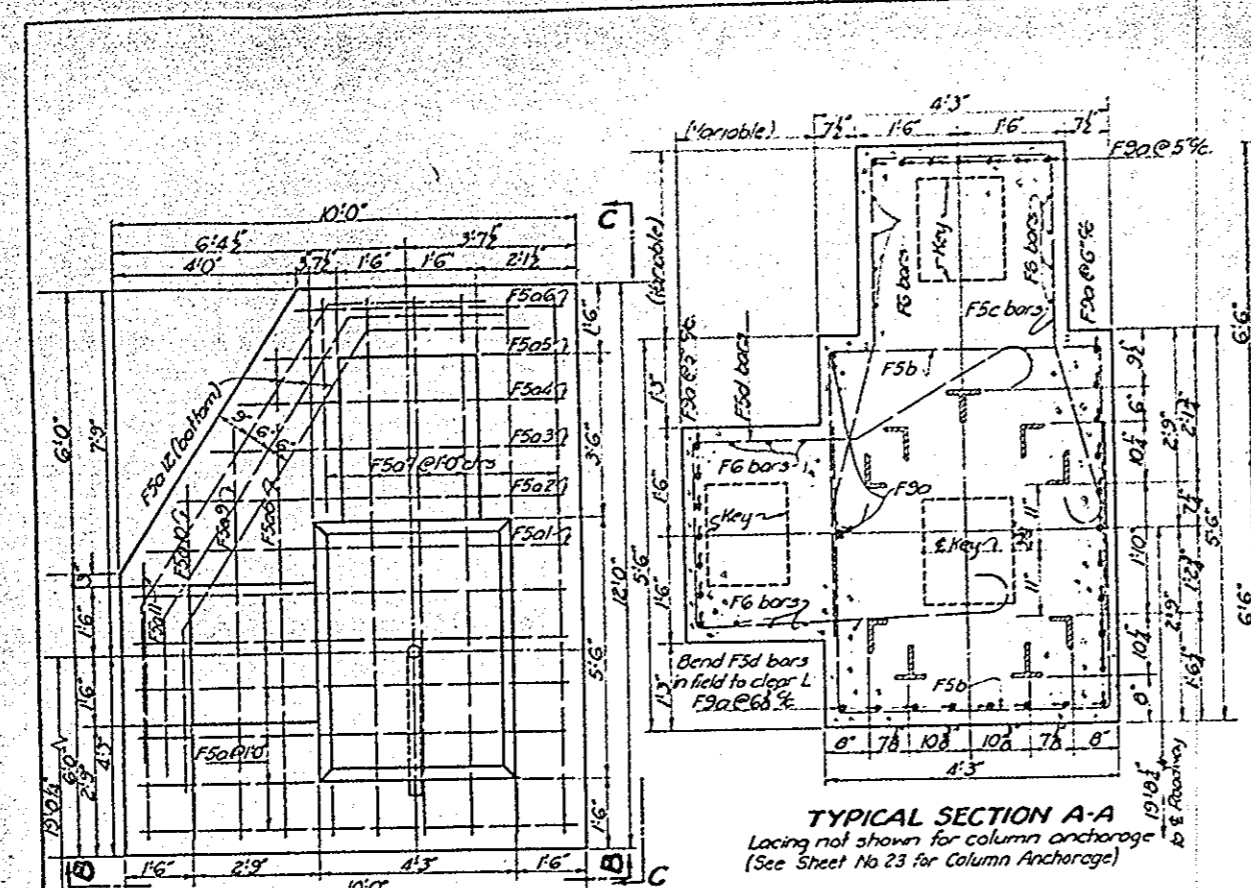
BRIDGE NO. CU-10-68

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

ARCH PIER PEDESTALS 2, 3 & 4
 LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR.
 S.H. 694

DESIGNED BY	C.R.S.	2/20/40
CHECKED BY	R.E.D.	1/17/41
APPROVED BY	J.H.M.	1/14/41



Note: Excavation below top of footing is calculated to neat line. All excavation below top of footings shall be filled with concrete.

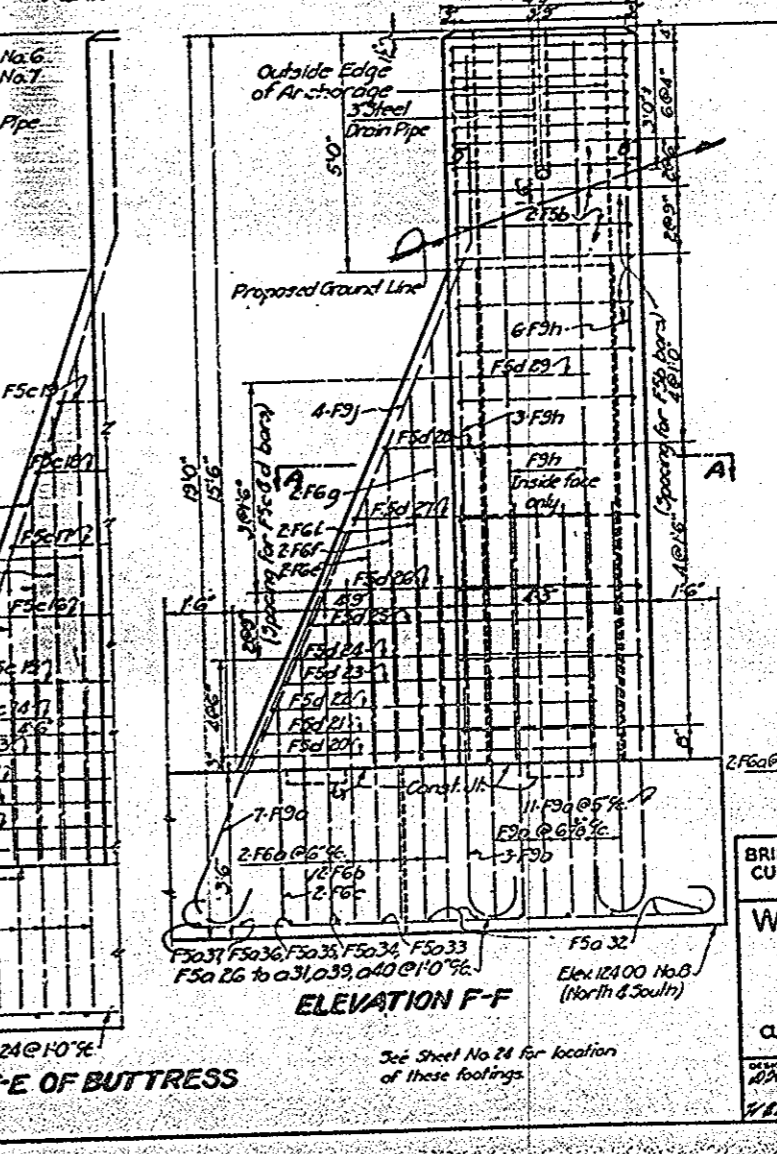
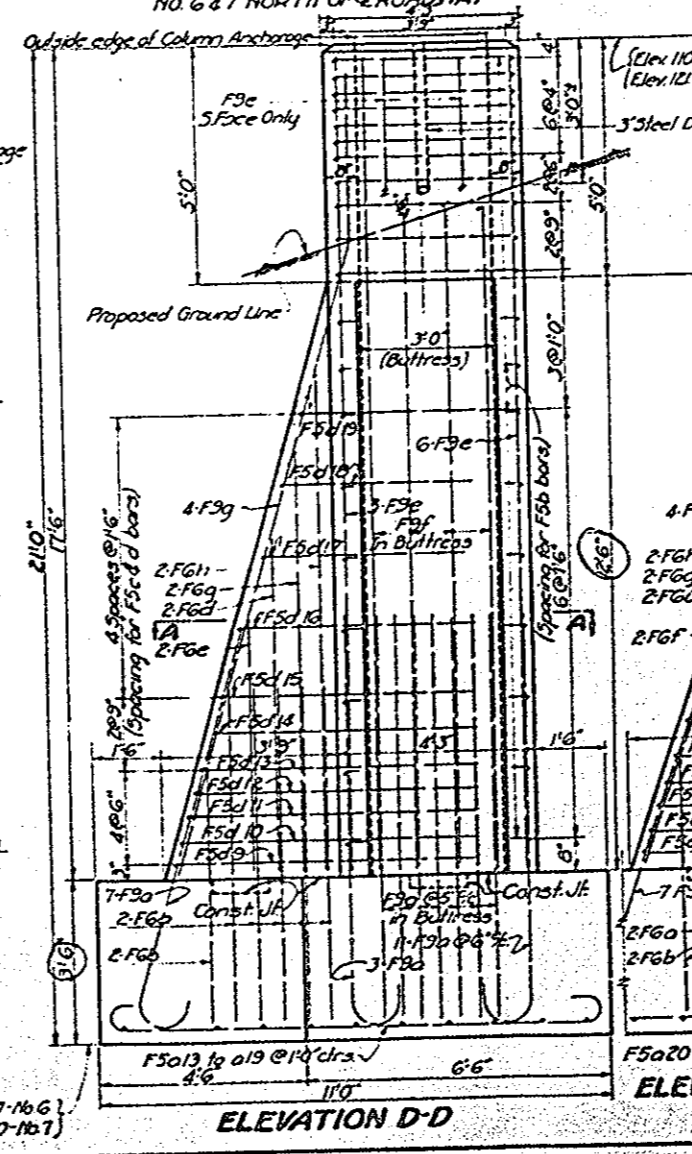
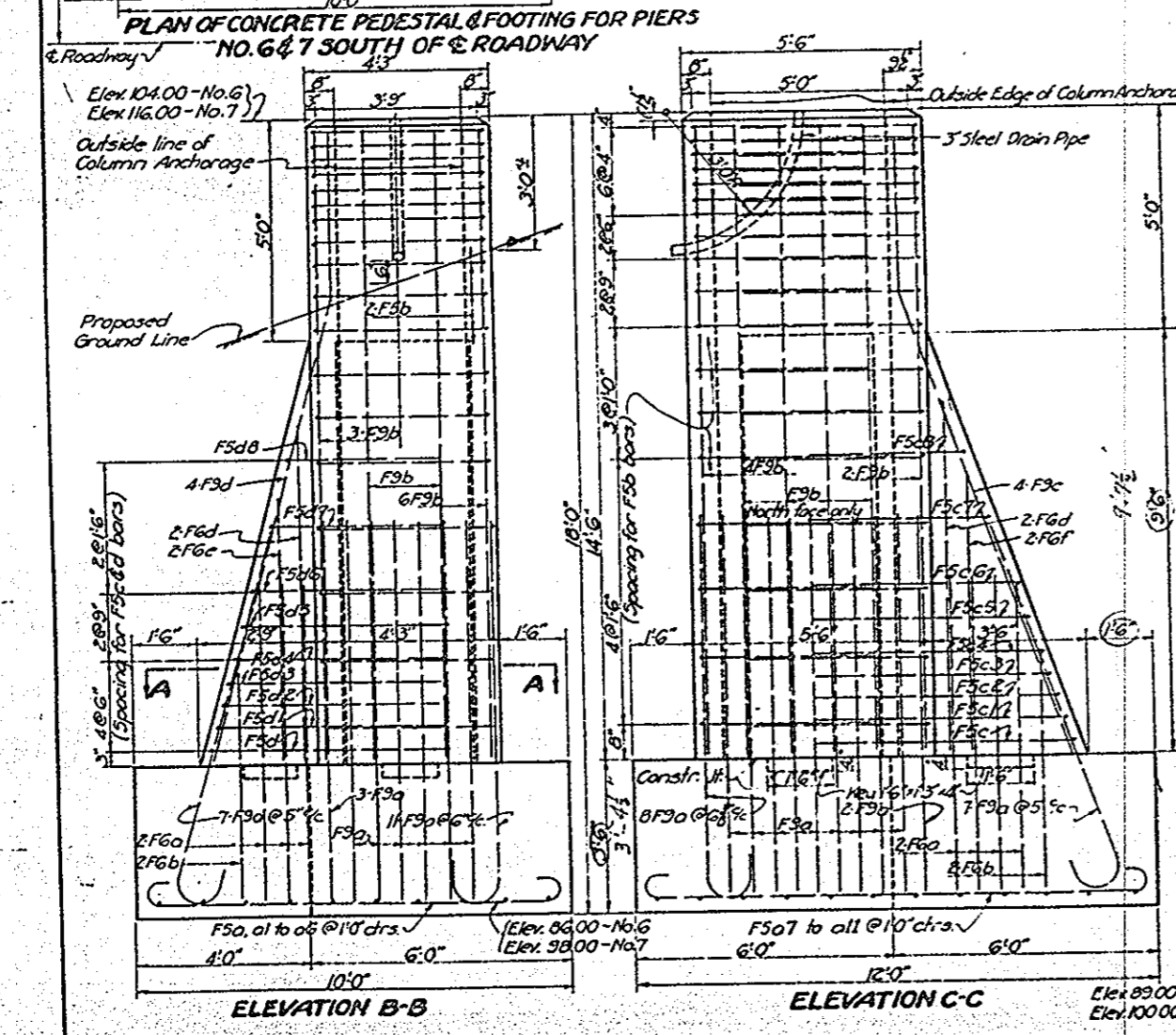
Reinforcing steel shall clear bottom of footing 3" and sides of pedestal and buttresses 2".

Concrete in footings shall be class "C" 1 1/2" mix.

Concrete above top of footings shall be Class "C" 1 1/2" mix.

Class "C" Concrete 113 Cu Yds
Class "E" Concrete 100 Cu Yds
Foundation Excavation Earth 430 Cu Yds
Foundation Excavation Stone 115 Cu Yds

NOTE: See Sheet No 24 for location of Pier Pedestals.



Note: all tops of footers 1/4" below - as shown on "C-C"

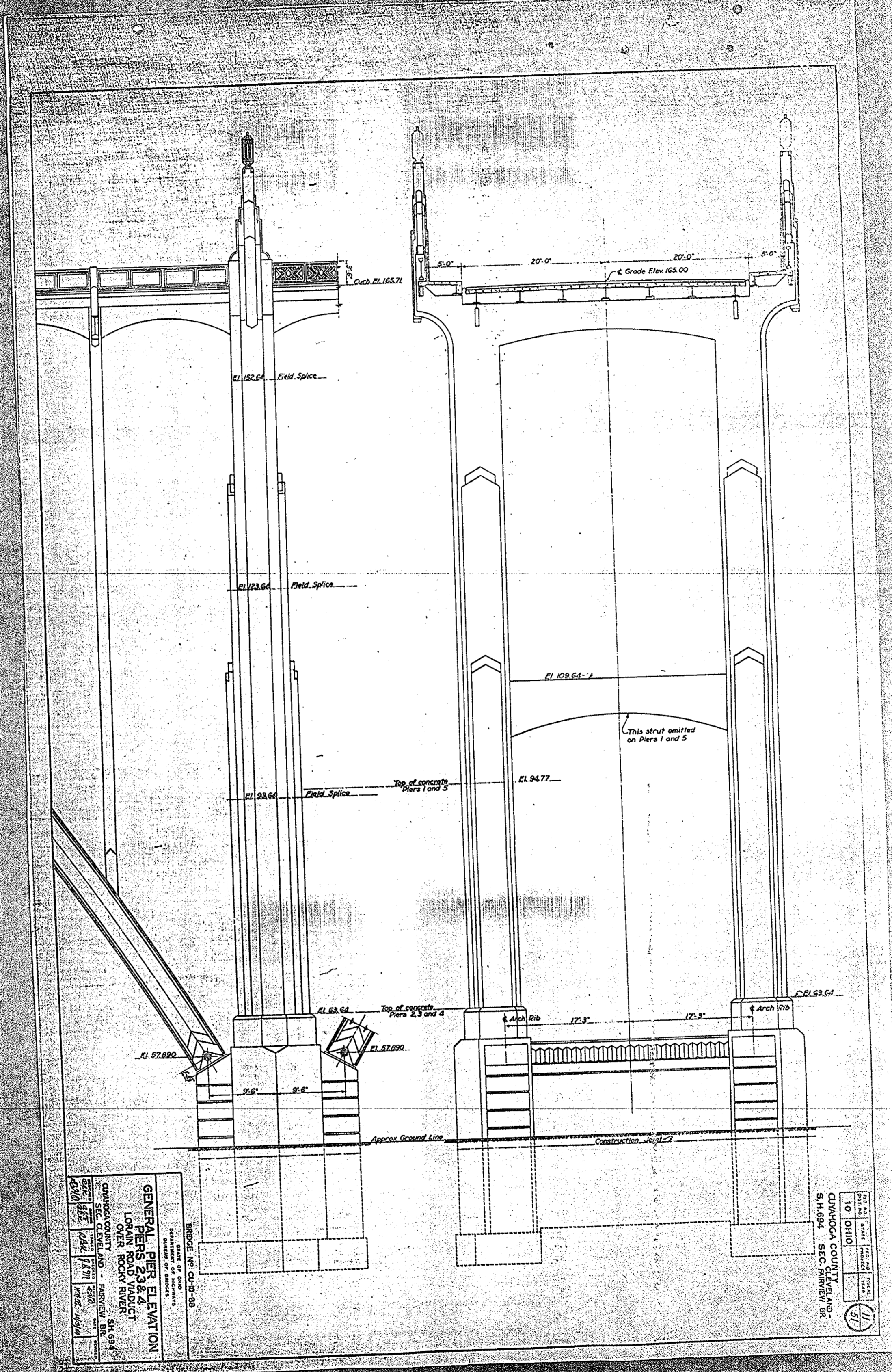
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

**WEST APPROACH PEDESTALS
PIERS 6, 7 & 8**
LORAIN ROAD VIADUCT
OVER ROCKY RIVER

CUYAHOGA COUNTY
SEC. CLEVELAND - FAIRVIEW BR.

DATE	BY	CHECKED	APPROVED
10/10/10	J.L.	J.L.	J.L.

S.H. 694
14/10



BRIDGE NO. CU-13-88
 STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 DIVISION OF BRIDGES
GENERAL PIER ELEVATION
PIERS 2, 3 & 4
 LORAN ROAD VIADUCT
 OVER ROCKY RIVER
 CUYAHOGA COUNTY
 SEC. CLEVELAND - FARMVIEW BR.
 SH. 694
 DATE: 7/31/20
 DESIGNED BY: JAK
 CHECKED BY: JAK
 IN CHARGE: JAK

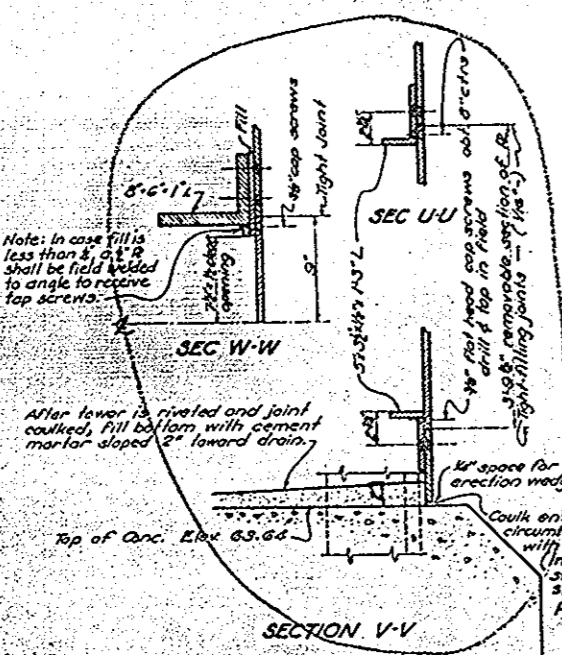
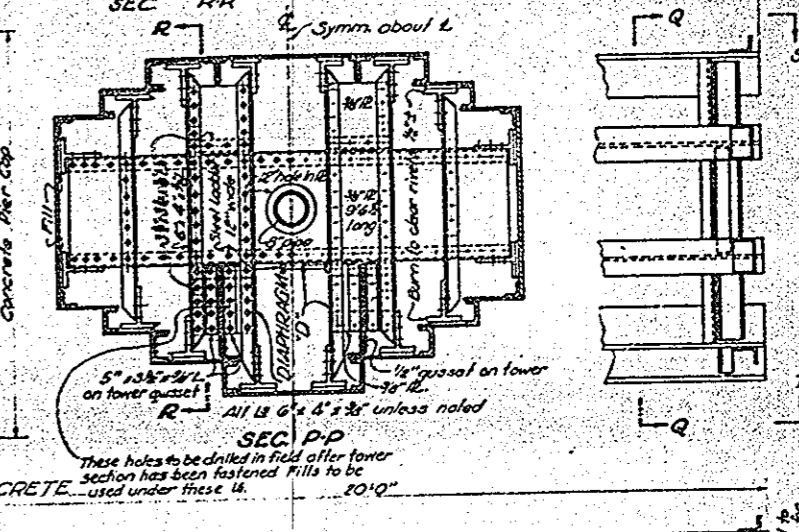
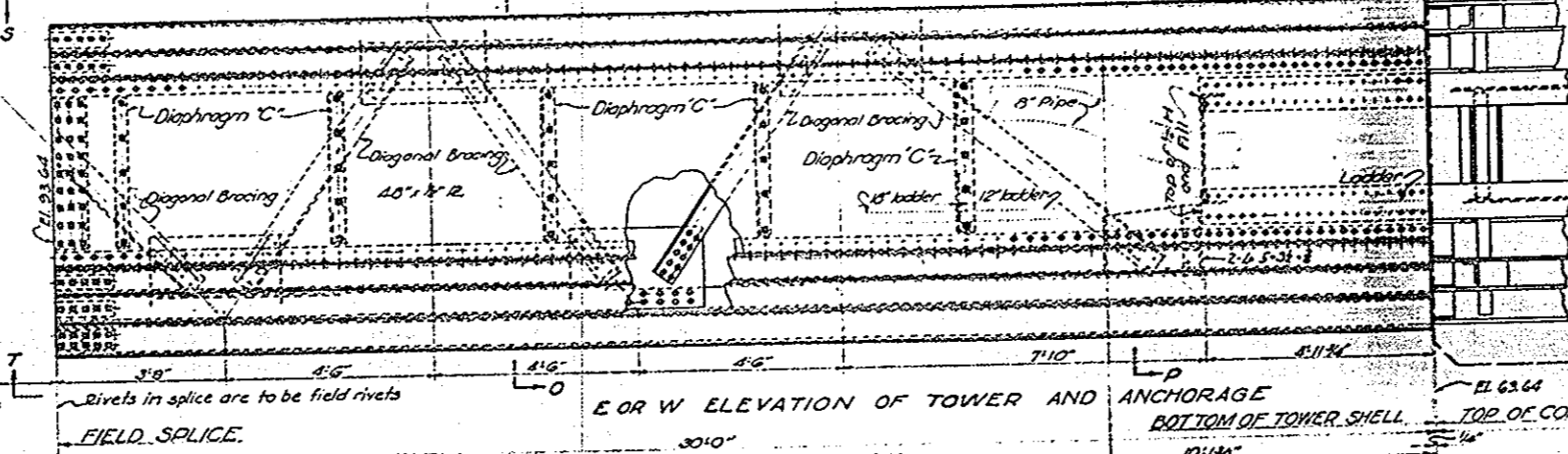
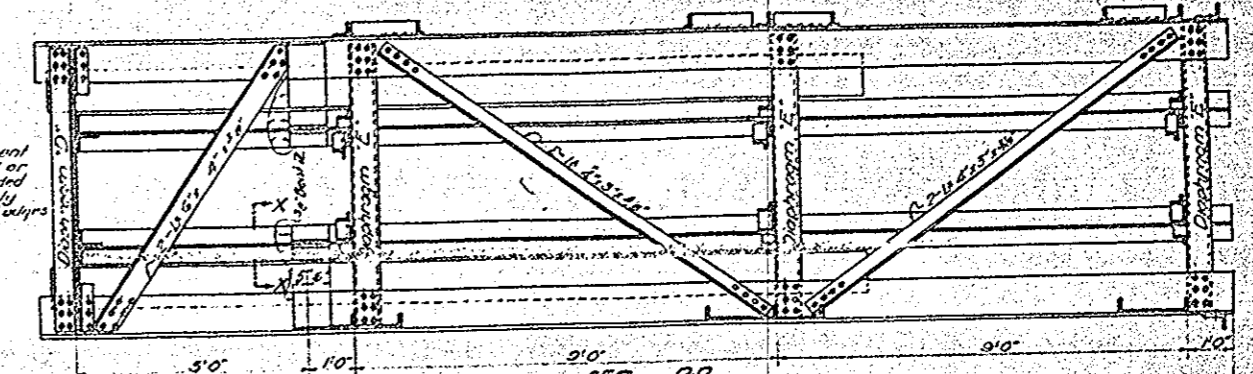
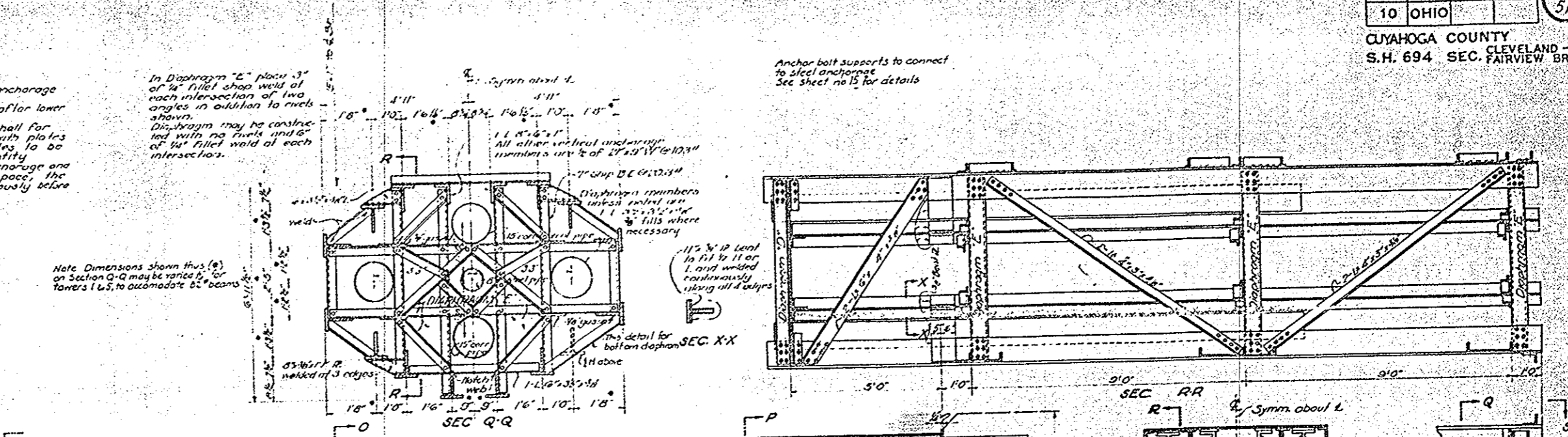
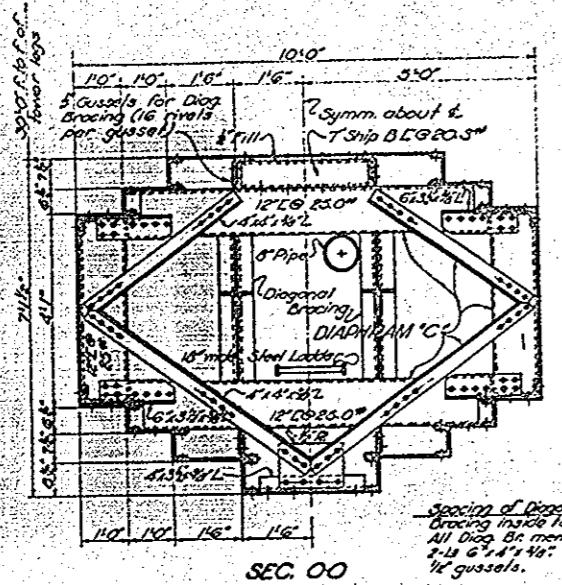
FILE NO.	STATE	PROJECT	SECTION
10	OHIO		
CUYAHOGA COUNTY			
S.H. 694 SEC. FARMVIEW BR.			

Holes shown in base of lower shall for connection to anchorage legs shall be punched in the shop. Holes thru anchorage legs and fills to be drilled in field after lower tower section is in correct position. The space is left between each anchorage leg and lower shell for erection purposes. These spaces to be tightly filled with plates as shown extending to top of concrete. Fill plates to be furnished in various thicknesses, in sufficient quantity to allow any necessary field adjustment between anchorage and lower. Where more than one fill plate is used in one space, the plates shall have their edges welded together continuously before being placed in position.

In Diaphragm "E" place 3" of 1/4" fillet shop weld of each intersection of leg angles in addition to rivets shown. Diaphragm may be constructed with no rivets and 6" of 1/4" fillet weld at each intersection.

Anchor bolt supports to connect to steel anchorage. See sheet no 12 for details.

Note: Dimensions shown thus (e) on Section Q-Q may be varied for towers to accommodate 60° bases.



Changed to a Louvre Type
See Shop Details

NOTES:
All rivets to be 5/8" rivets to have button heads unless shown countersunk.
For additional notes see Sheets No. 13 and 15.

BRIDGE NO. CU-10-88

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

**LOWER TOWER SEC-PIERS 2-3-4
AND STEEL ANCHORAGE
LORAIN ROAD VIADUCT
OVER ROCKY RIVER**

CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694

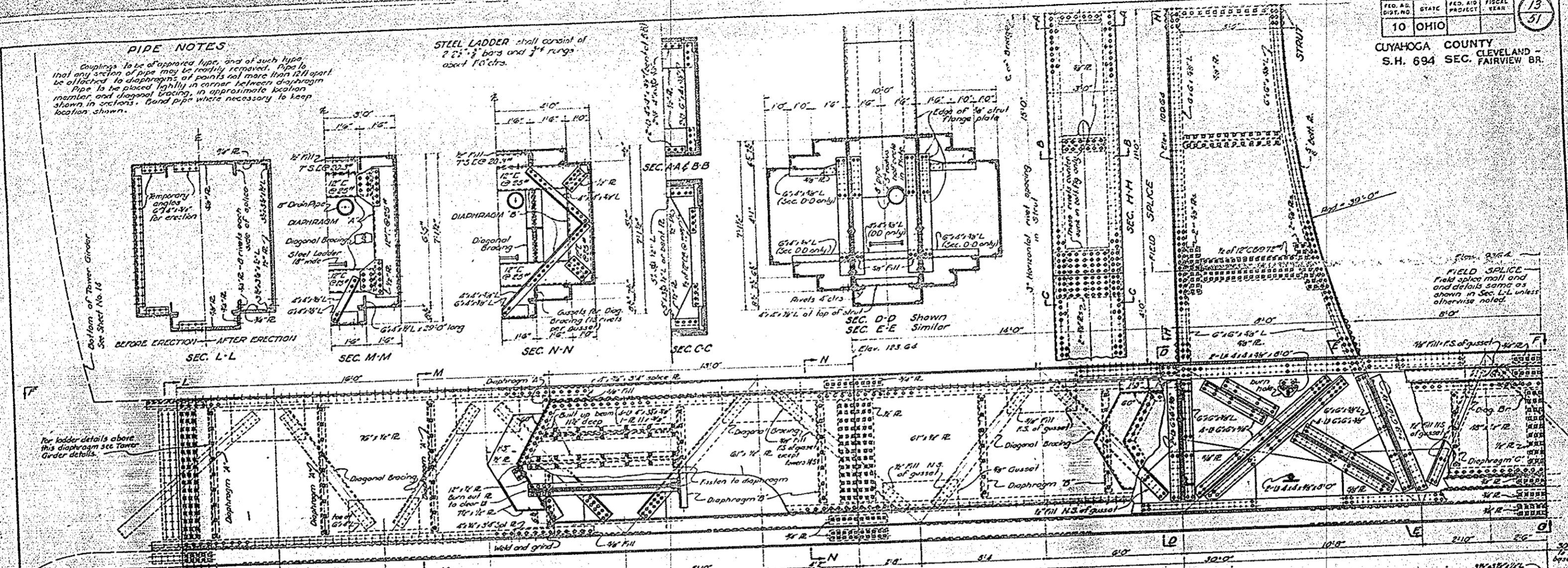
DESIGNED BY	CHECKED BY	DATE	REVISION
W. J.

CUYAHOGA COUNTY CLEVELAND -
S.H. 694 SEC. FAIRVIEW BR.

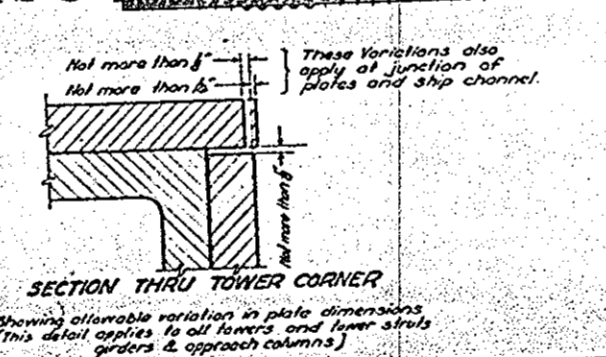
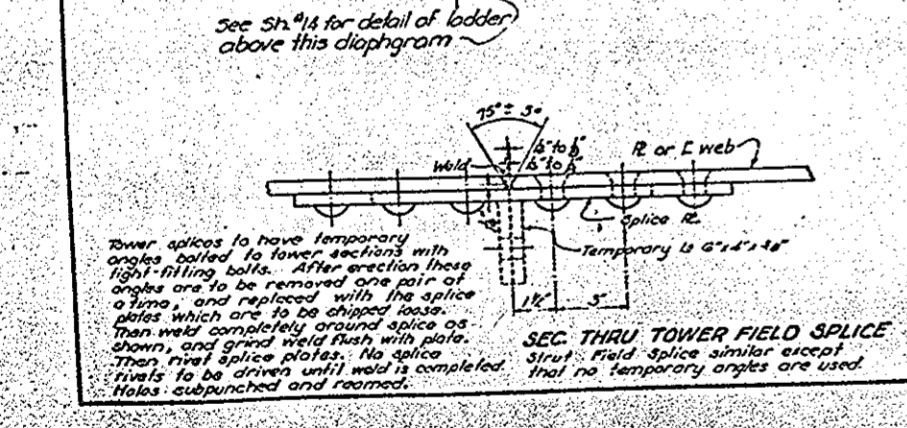
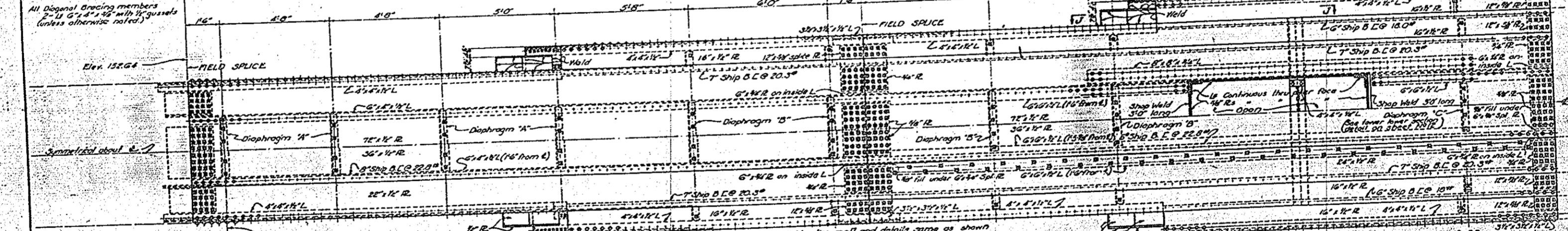
PIPE NOTES

Couplings, later approved type, and of such type that any section of pipe may be readily removed. Pipe to be attached to diaphragm in corner between diaphragm member and diagonal bracing, in approximate location shown in sections. Band pipe where necessary to keep location shown.

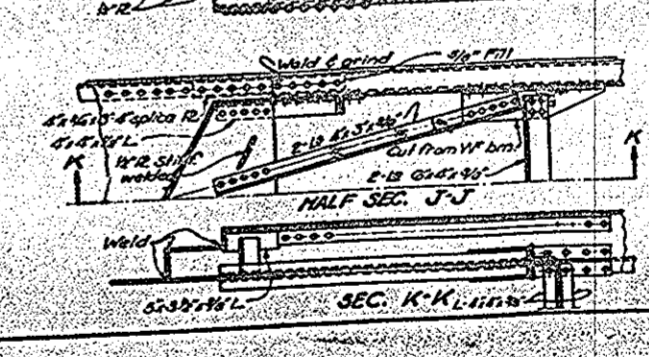
STEEL LADDER shall consist of 2" x 3" bars and 3" rungs and 10" x 10" cleats.



E. OR W. ELEVATION OF TOWER AND STRUT



NOTES
All rivets to be top & rivets to have button heads unless shown counter sunk. All vertical rivet spacing & except at splices. Field rivets are shown as shop rivets on this sheet. Double & half or turned bolts may be substituted for field rivets having both heads inside the tower.



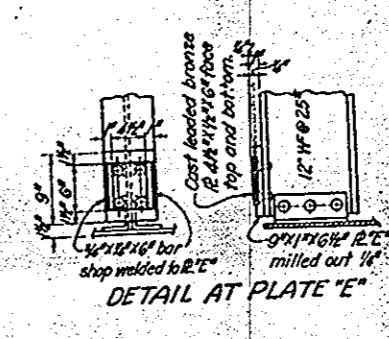
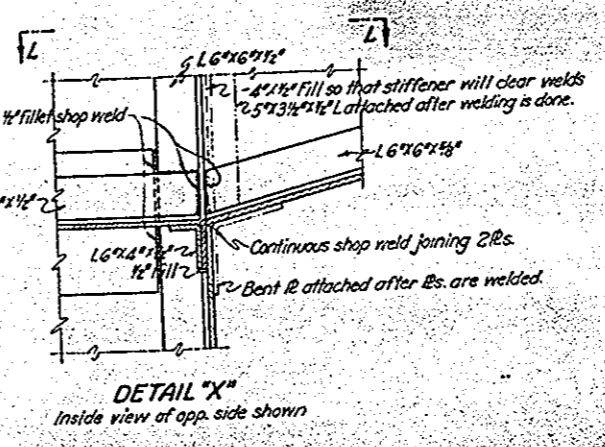
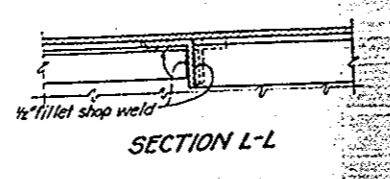
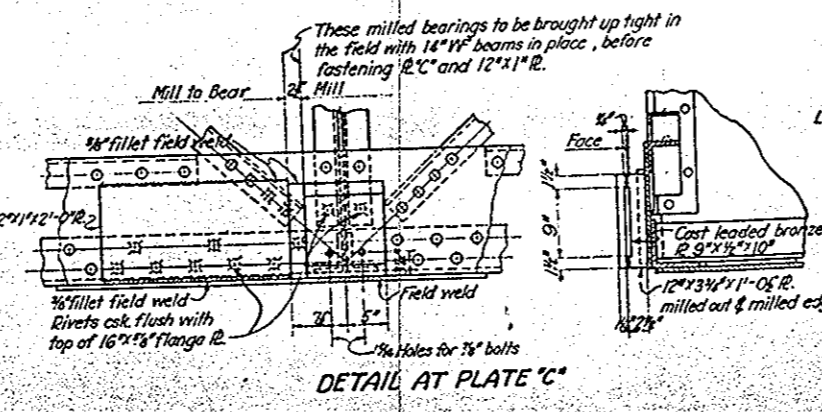
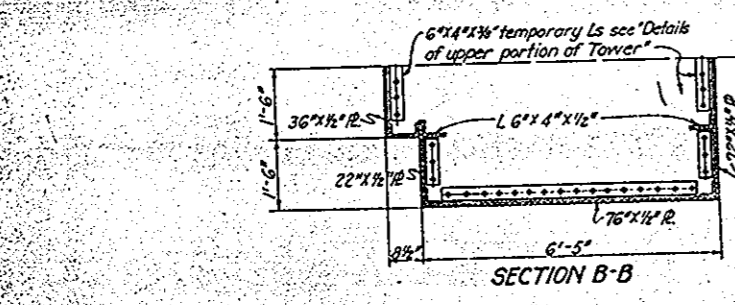
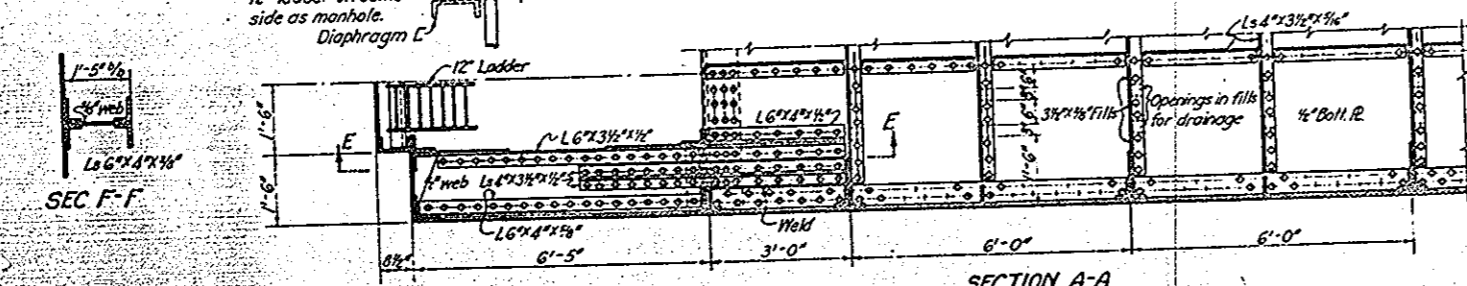
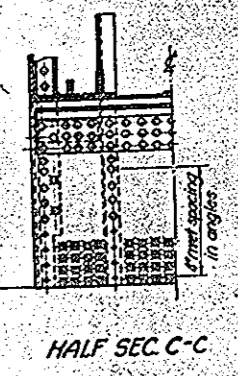
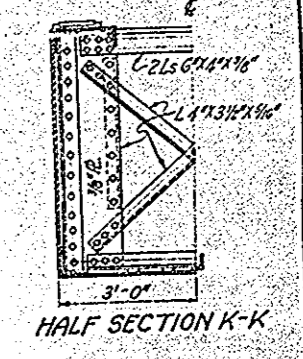
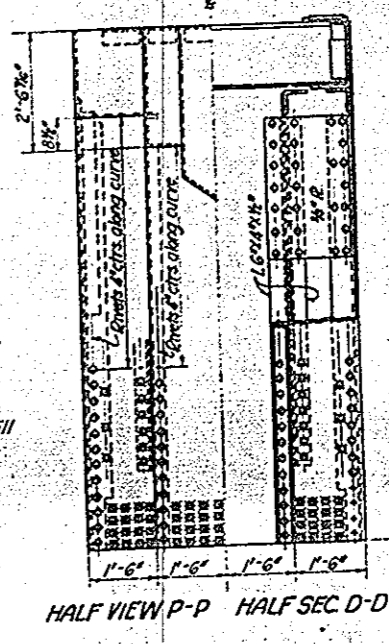
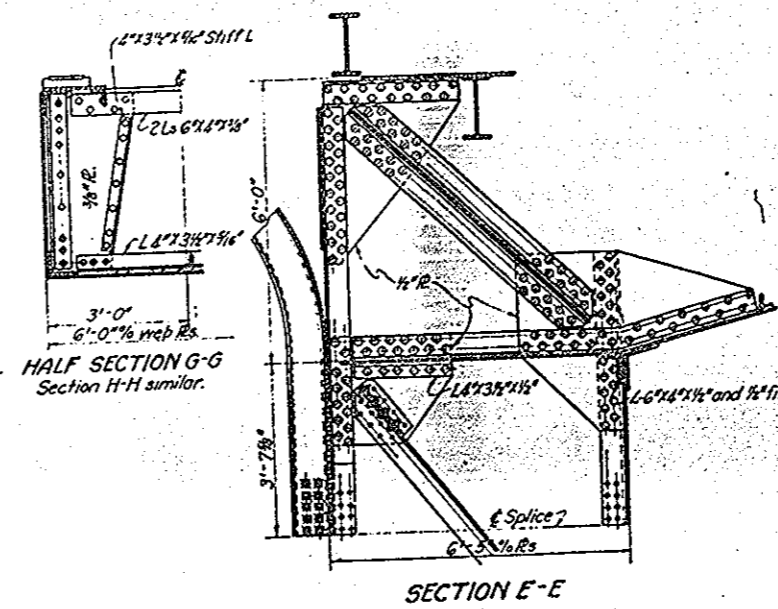
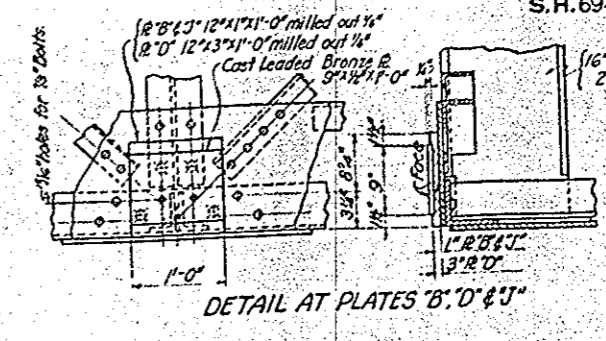
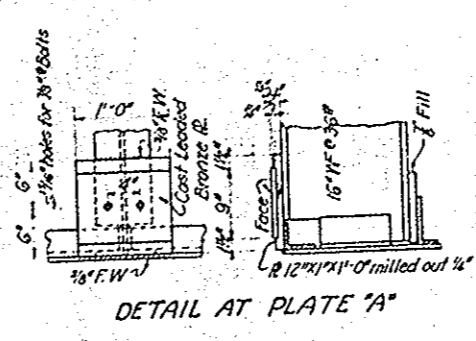
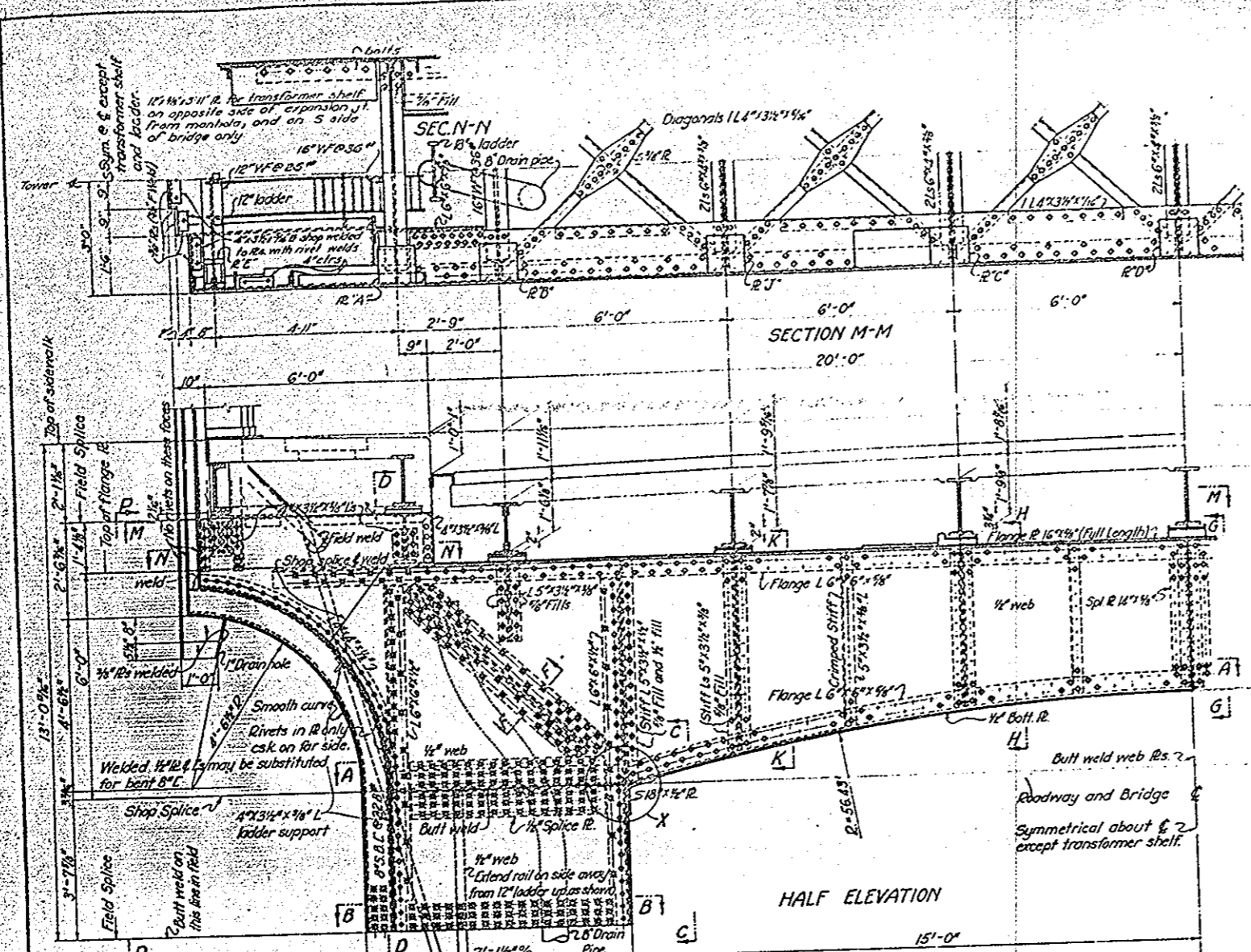
BRIDGE NO. CU-10-88

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

**UPPER TOWER SECTION
PIERS 2, 3 & 4
LORAIN ROAD VIADUCT
OVER ROCKY RIVER**

CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR.

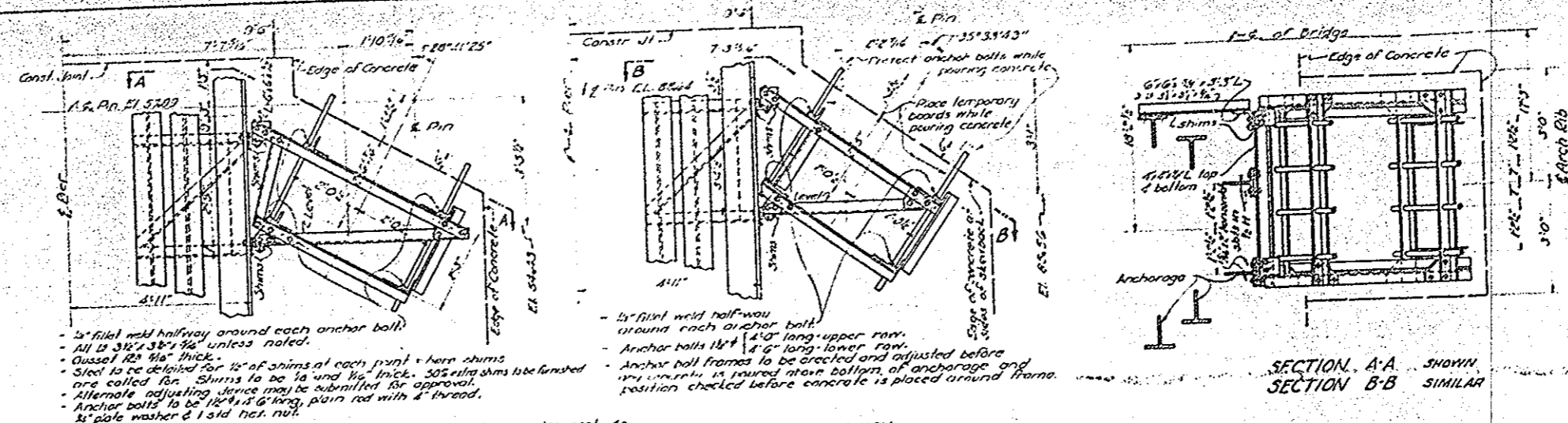
DESIGNED BY	DATE	SCALE	NO.
1230	1/10	1/2" = 1'-0"	1230
CHECKED BY	DATE	SCALE	NO.



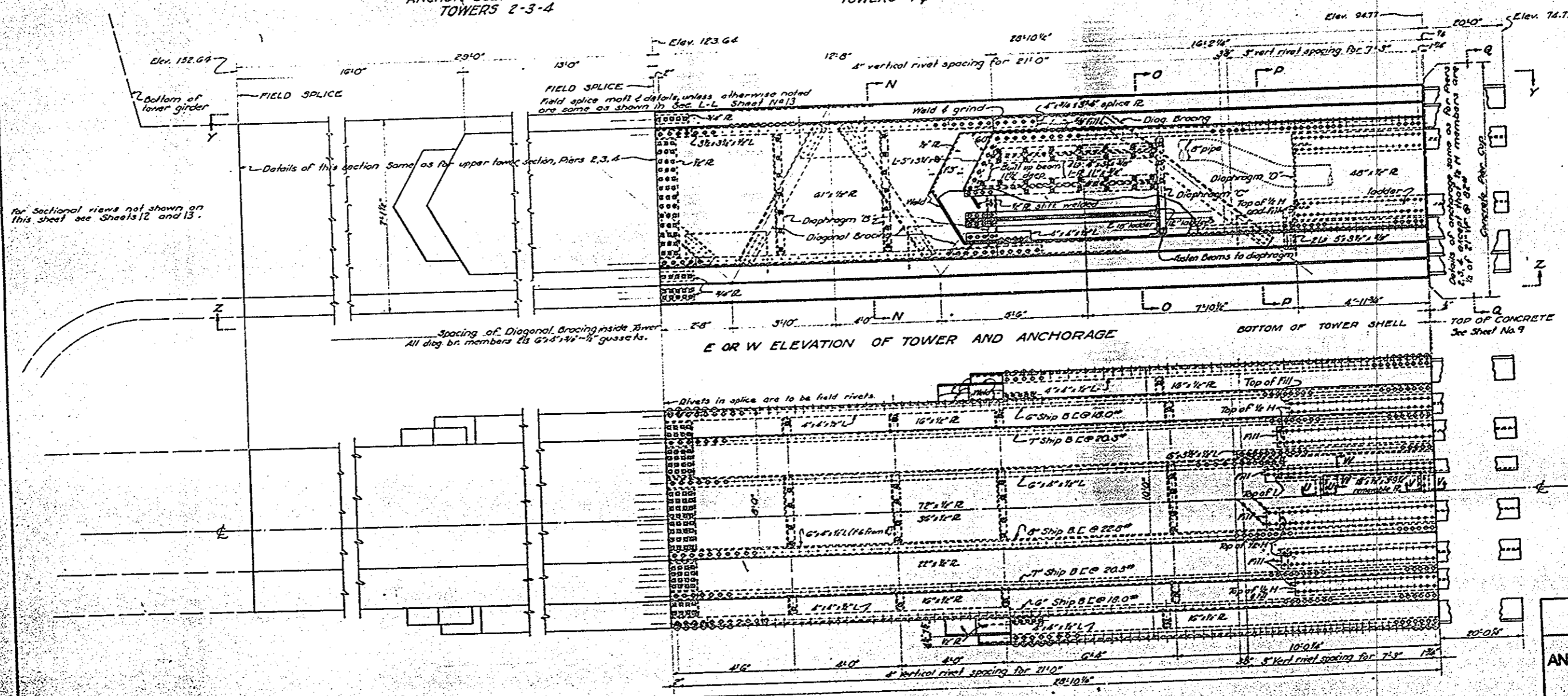
Notes:
 Nuts on 1/2" anchor bolts thru expansion plates shall be left loose and threads jammed to keep nuts from coming off.
 For details of built welds see sheet no. 16.
 For allowable plate tolerances see sheet no. 13.

For additional notes and details see sheet N113 and 16.

BRIDGE NO. CU-10-88					
STATE OF OHIO					
DEPARTMENT OF HIGHWAYS					
BUREAU OF BRIDGES					
TOWER GIRDER					
PIERS 2, 3 & 4					
LORAIN ROAD VIADUCT					
OVER ROCKY RIVER					
CUYAHOGA COUNTY					
CLEVELAND - FARVIEW BR.					
S.H. 694					
DESIGNED	DRAWN	CHECKED	APPROVED	DATE	PROJECT
J.W.C.	B.E.C.	J.M.	J.M.C.	10/15/15	1015/15



SIDE ELEVATION ANCHOR BOLT SUPPORT TOWERS 2-3-4
 SIDE ELEVATION ANCHOR BOLT SUPPORT TOWERS 1&5



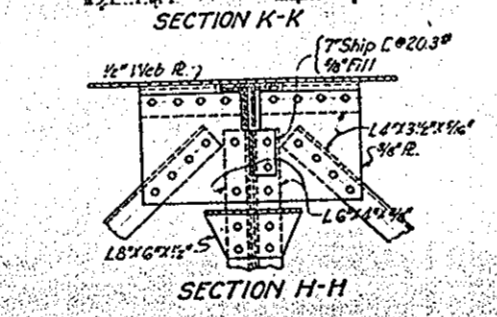
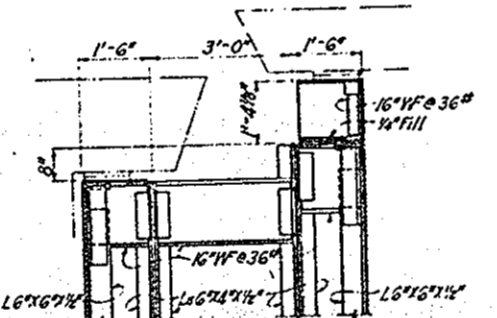
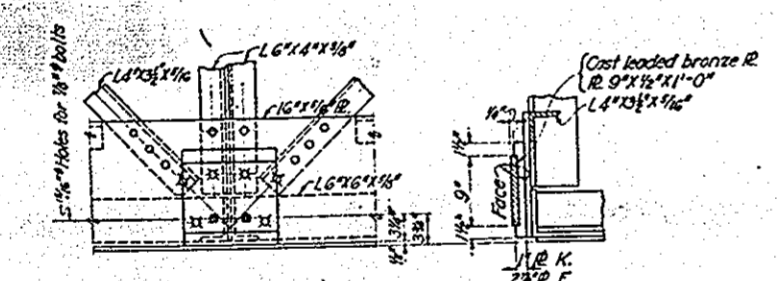
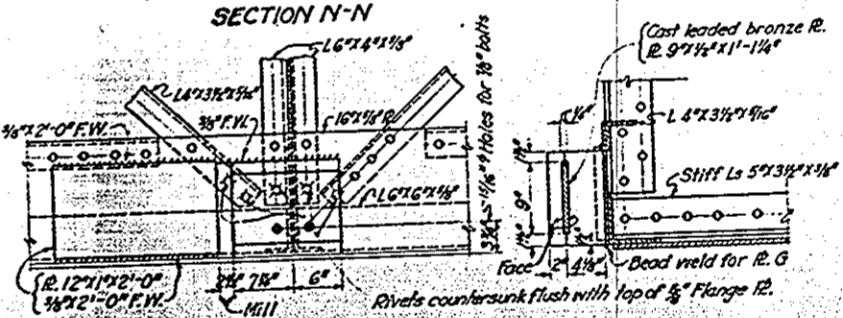
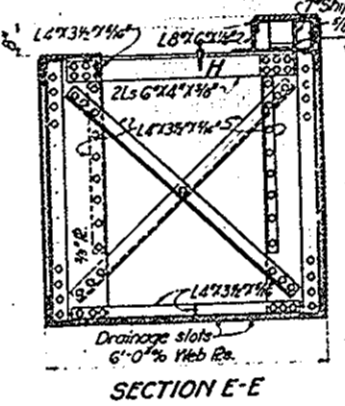
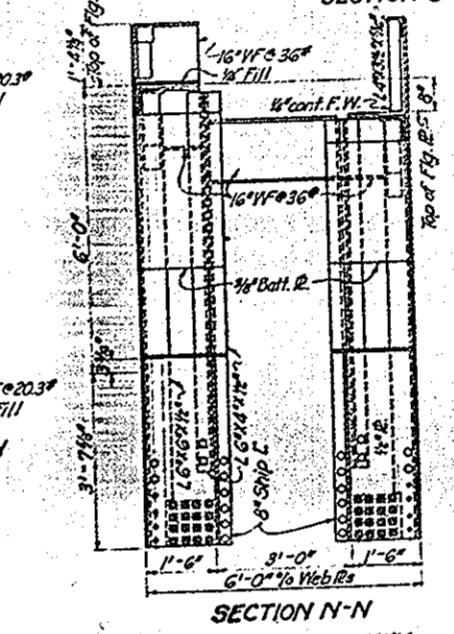
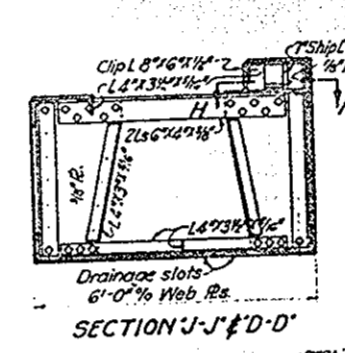
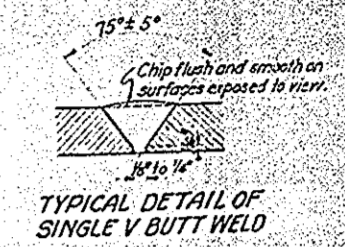
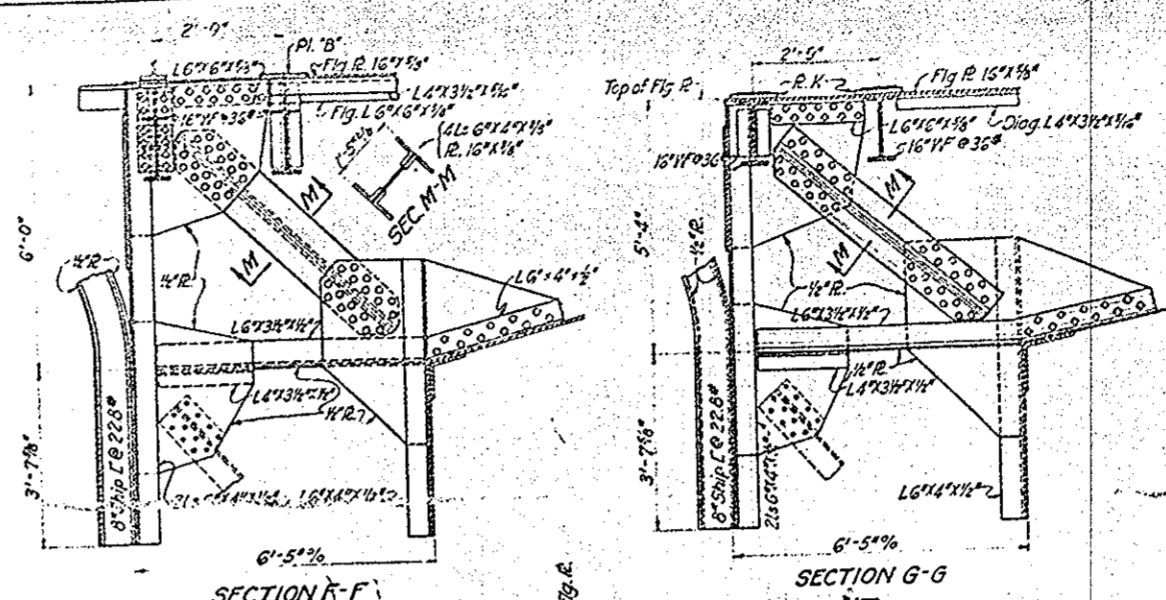
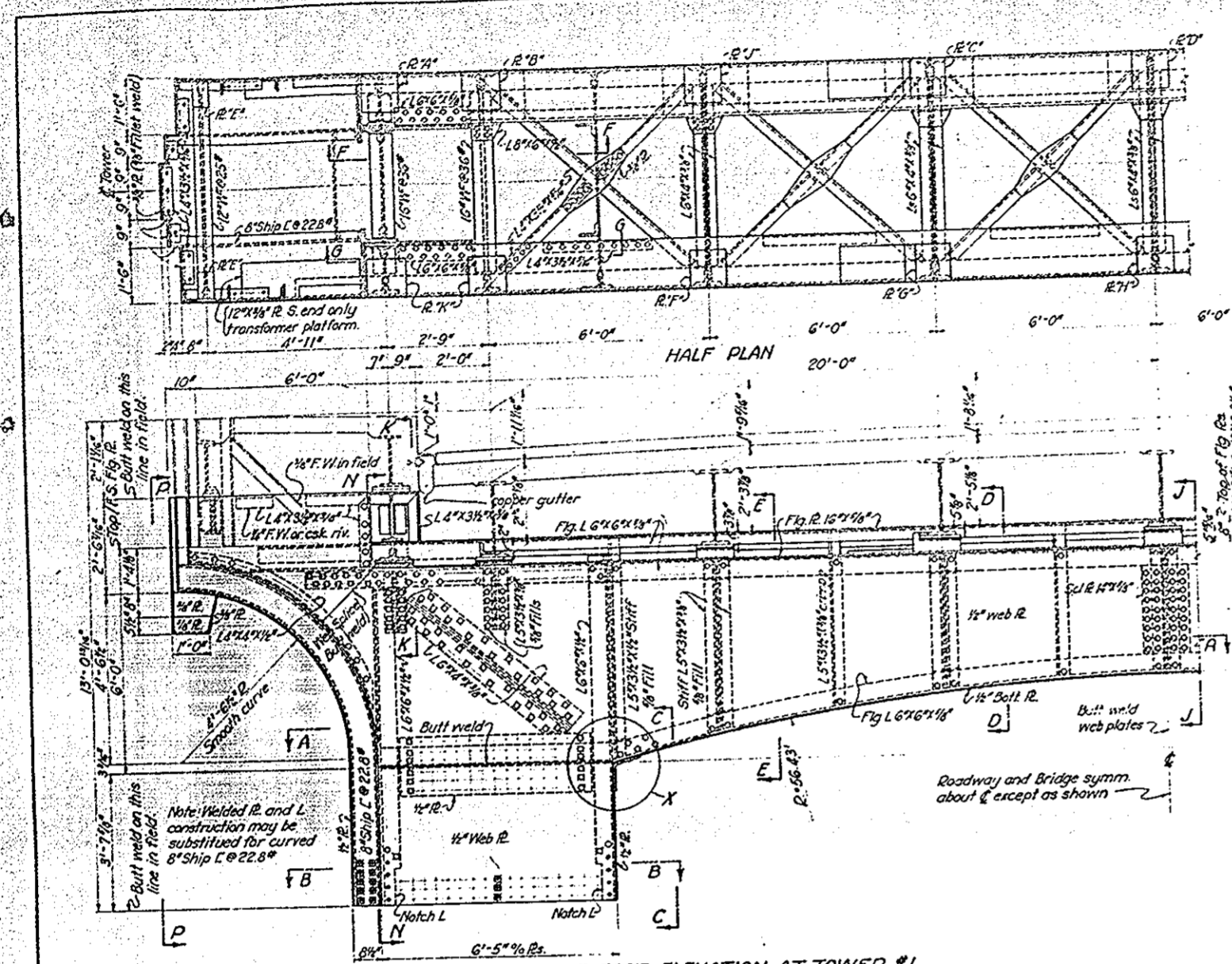
For sectional views not shown on this sheet see Sheets 12 and 13.

ELEVATION Y-Y ABOVE &
ELEVATION Z-Z BELOW &

NOTES
 All rivets to be 7/8" &
 Rivets to have buffer heads
 unless shown counter sunk
 for additional notes and details
 see sheets 12 and 13

BRIDGE NO. CU-10-88
 STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES
**PIER TOWERS 1 & 5
 AND ANCHOR BOLT SUPPORTS**
 LORAIN ROAD VIADUCT
 OVER ROCKY RIVER
 CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694
 DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: [Date]
 DRAWN BY: [Signature] DATE: [Date]

CUVAHOGA COUNTY CLEVELAND - S.H. 694 SEC. FAIRVIEW BR.



Notes:
 See sheet no. 14 for Detail 'X'
 See sheet no. 14 for Sec. 'A-A', 'B-B', 'C-C', 'D-D', 'E-E'
 For typical rivet spacing in girders see sheet no. 14.
 For details of stringers and sidewalk girders see sheets no. 20, 21, 22, 23 & 25.
 Plates A, B, C, D, E, J similar to plates on Towers 2, 3 & 4.
 For mainhole details of towers see sheet no. 21.
 For nylon and railing details of Towers see sheet no. 27.
 For drainage details see sheet no. 26.
 For location of ladder see sheet no. 14.
 Grind off butt welds, exposed to view flush with surface.
 For allowable plate tolerances at edges see sheet no. 13.
 F.W. denotes filled weld.

BRIDGE NO. CU-10-88

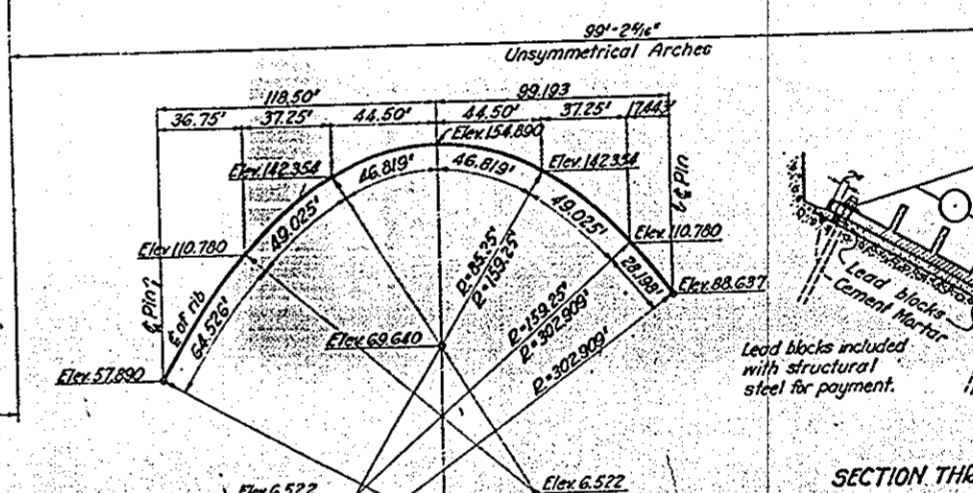
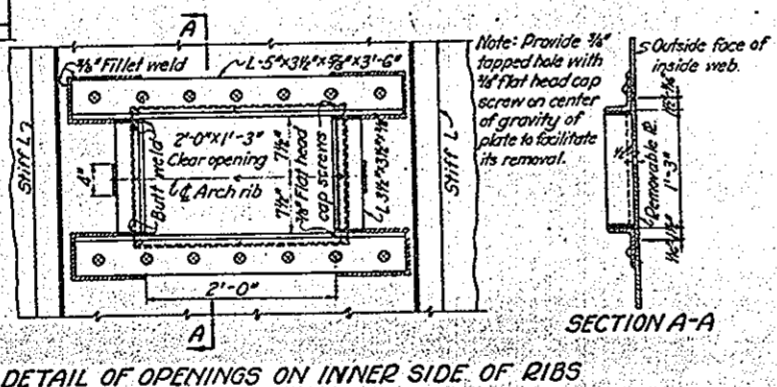
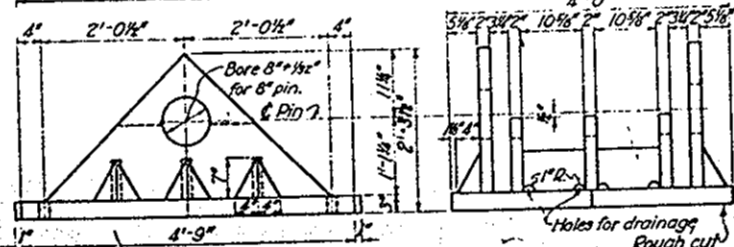
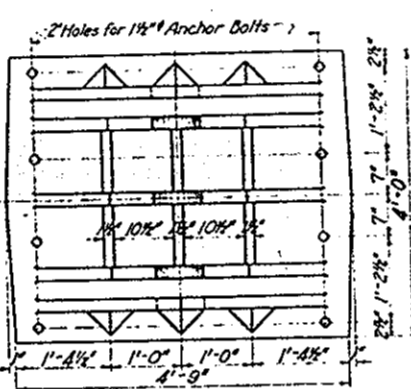
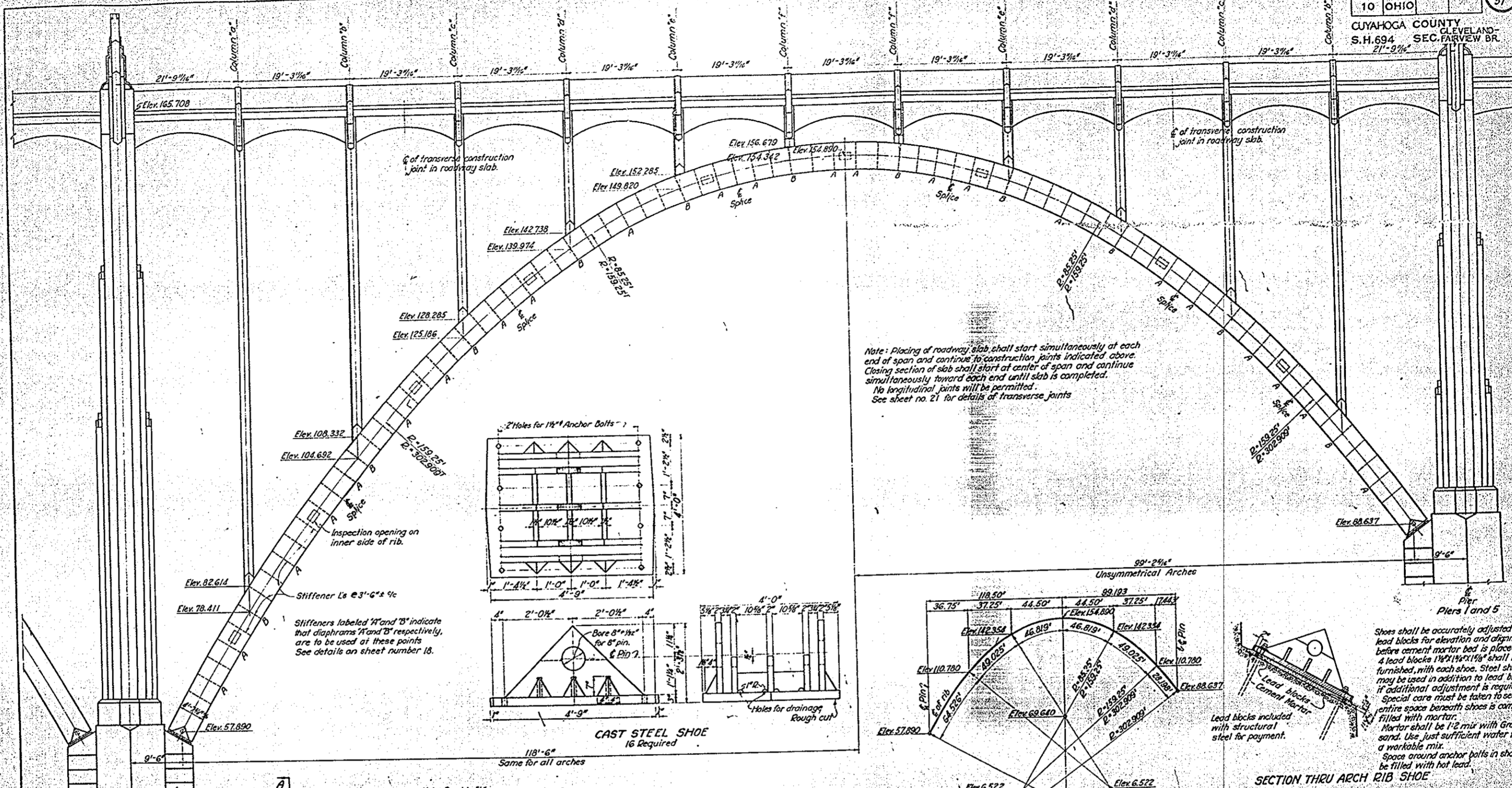
STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

TOWER GIRDERS 1 & 5

LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUVAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694

DESIGNED	CHECKED	APPROVED	DATE
M.S.R.	A.E.R.	R.C.C.	12/22/22
BY	BY	BY	DATE
M.S.R.	A.E.R.	R.C.C.	12/22/22



Shoes shall be accurately adjusted on lead blocks for elevation and alignment before cement mortar bed is placed. 4 lead blocks 1 1/2\"/>

Mortar shall be 1-2 mix with grade A sand. Use just sufficient water to obtain a workable mix. Space around anchor bolts in shoes to be filled with hot lead.

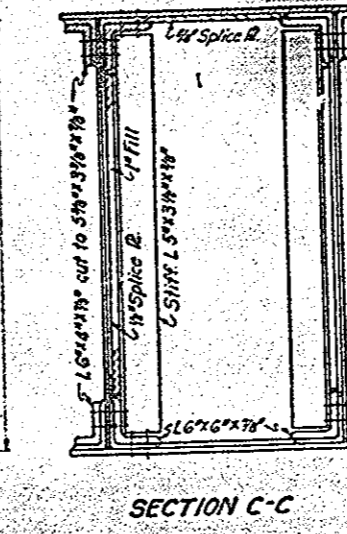
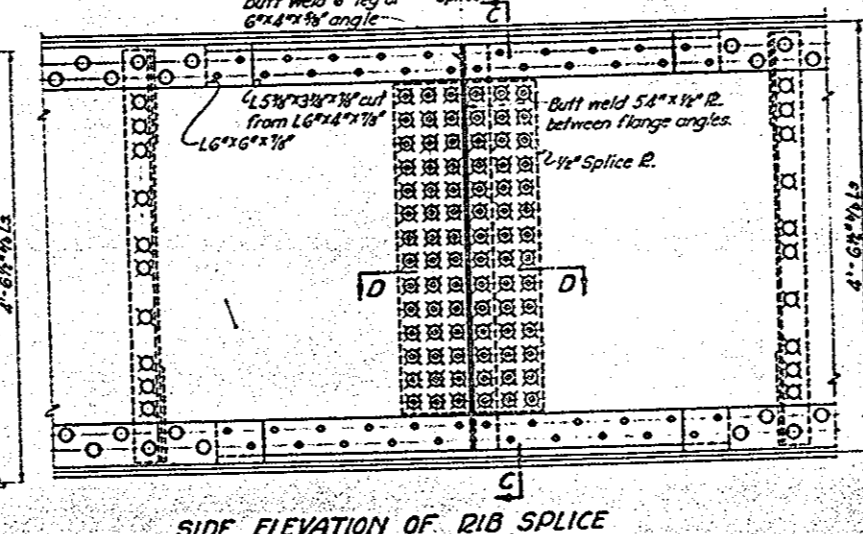
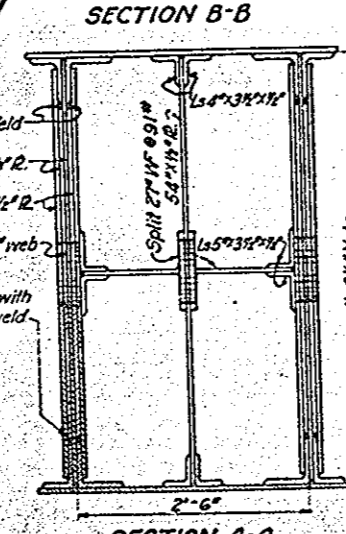
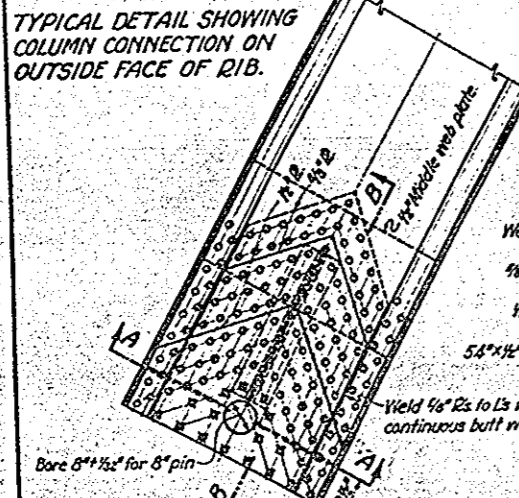
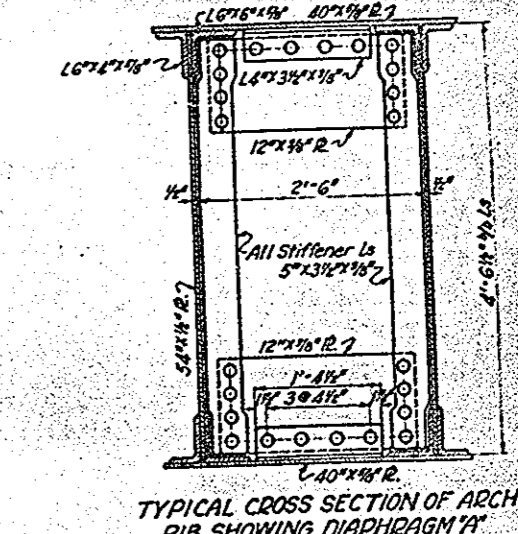
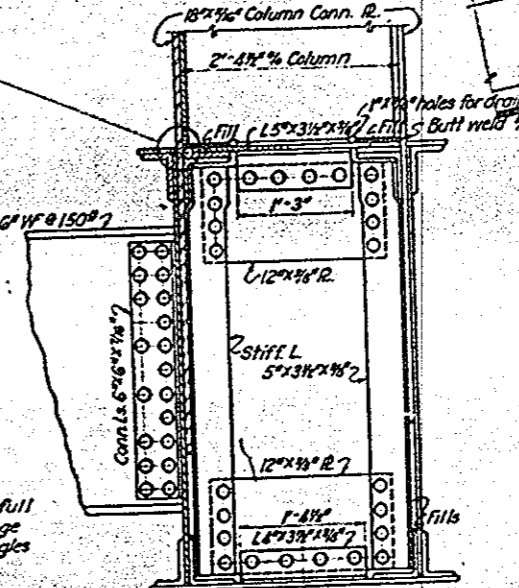
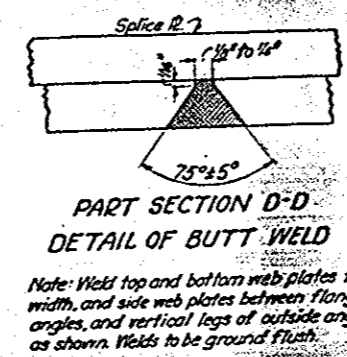
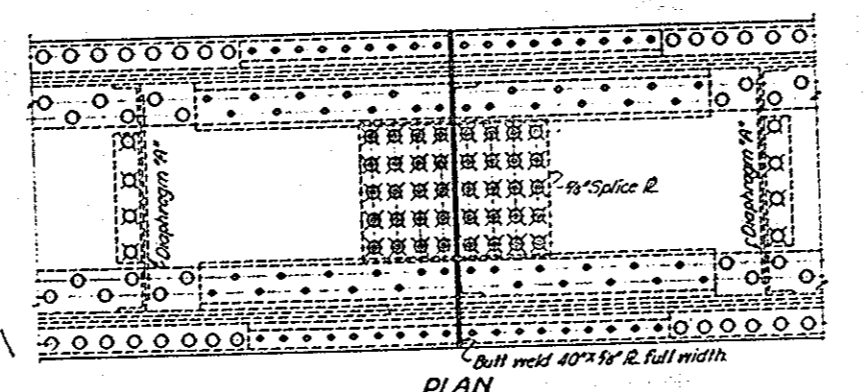
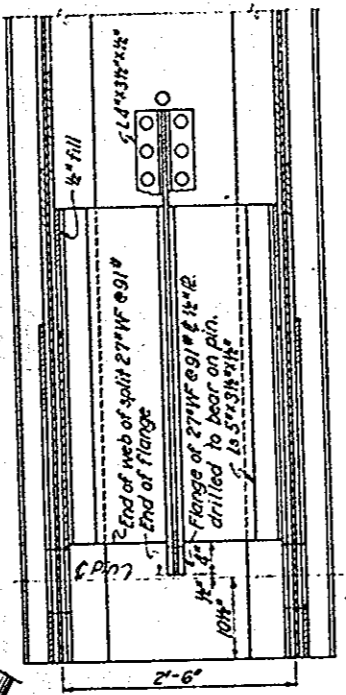
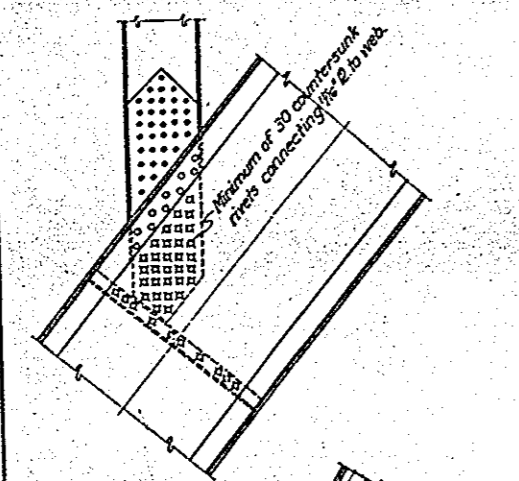
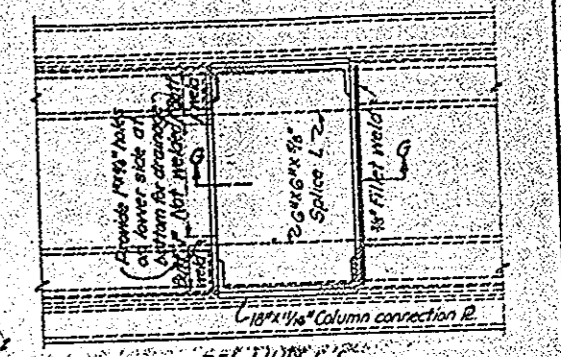
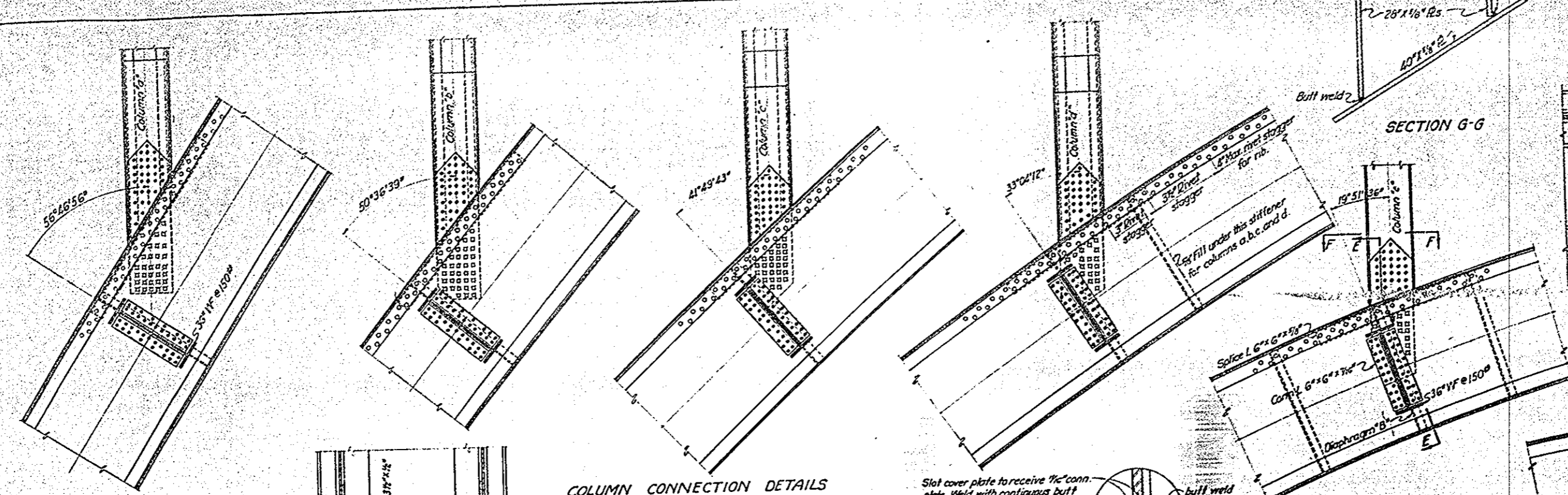
BRIDGE NO. CU-10-88

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

ARCH RIB LAYOUT
 LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND S.H. 694
 SEC. CLEVELAND - FAIRVIEW BR.

DESIGNED BY	C.E.C.	DATE	10/21/51
CHECKED BY	J.M.	DATE	10/21/51
APPROVED BY		DATE	10/21/51

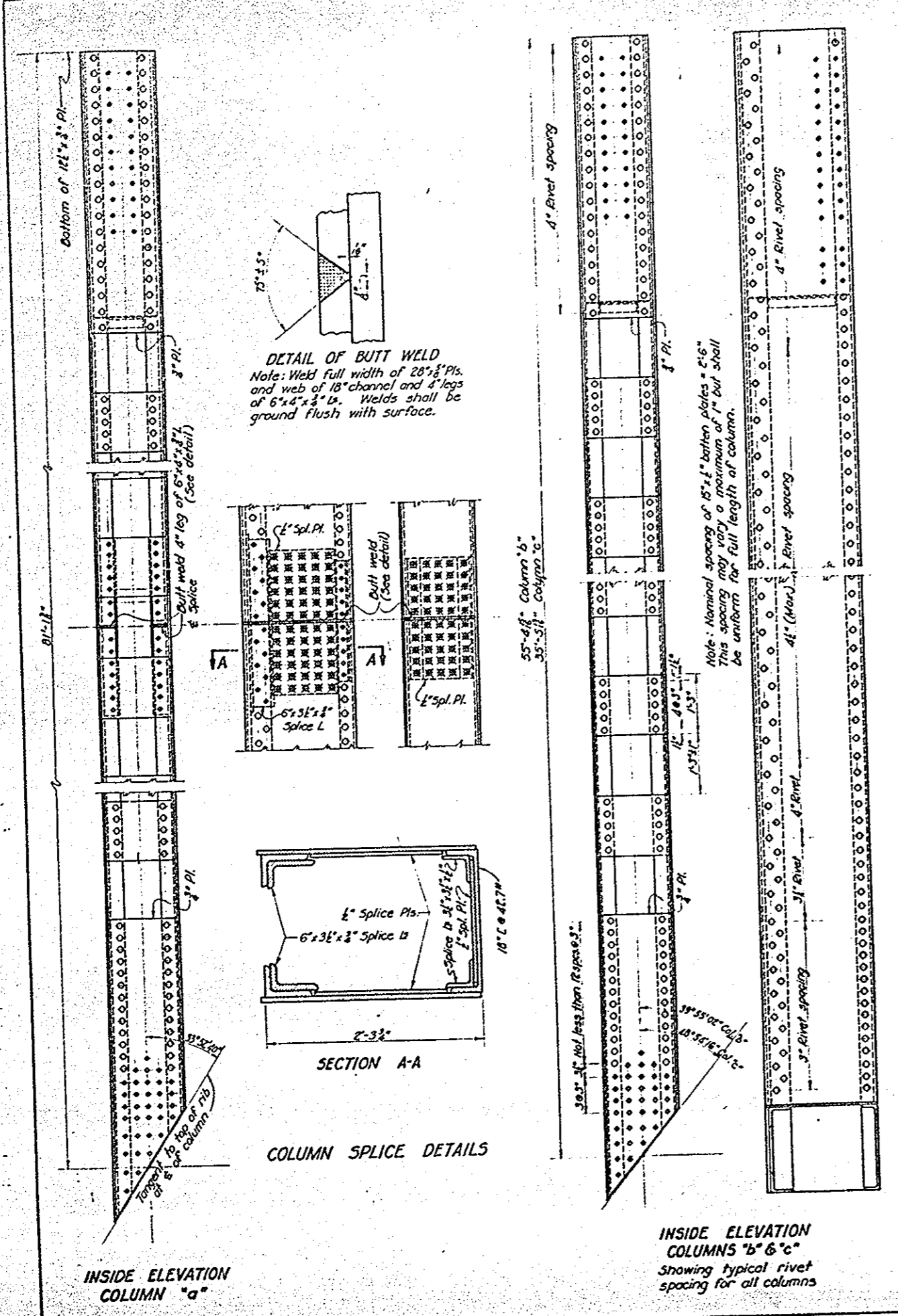


BRIDGE NO. CU-10-88
 STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

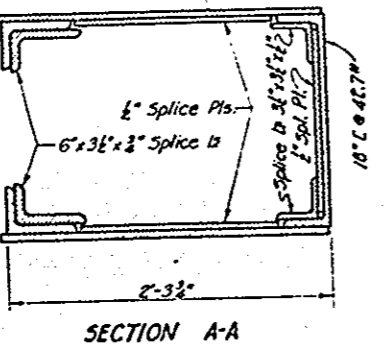
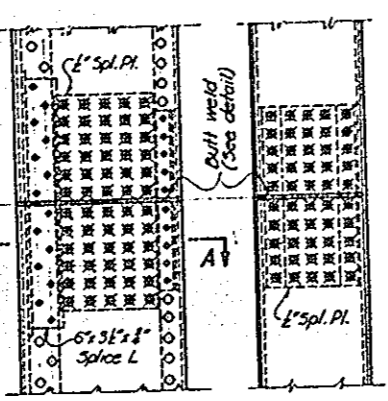
ARCH RIB DETAILS
 LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694

DESIGNED BY	CHECKED BY	DATE	REVISION
W.B.R.	J.L.P.	10/1/21	1

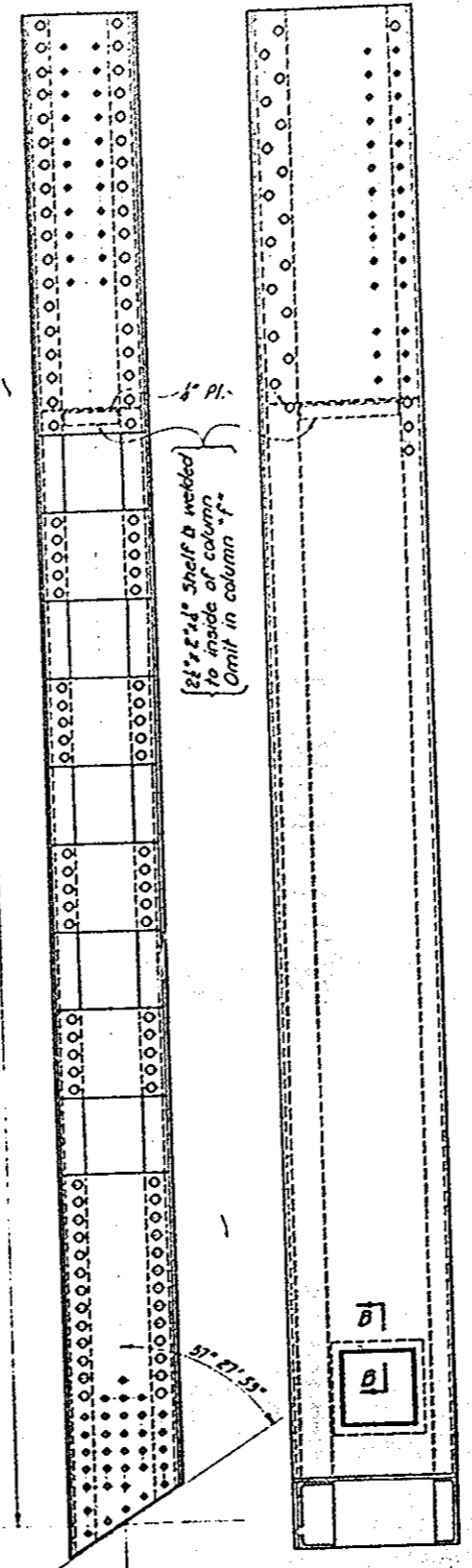


DETAIL OF BUTT WELD
 Note: Weld full width of 28" x 3/8" PL and web of 18" channel and 4 legs of 5" x 3/4" L's. Welds shall be ground flush with surface.

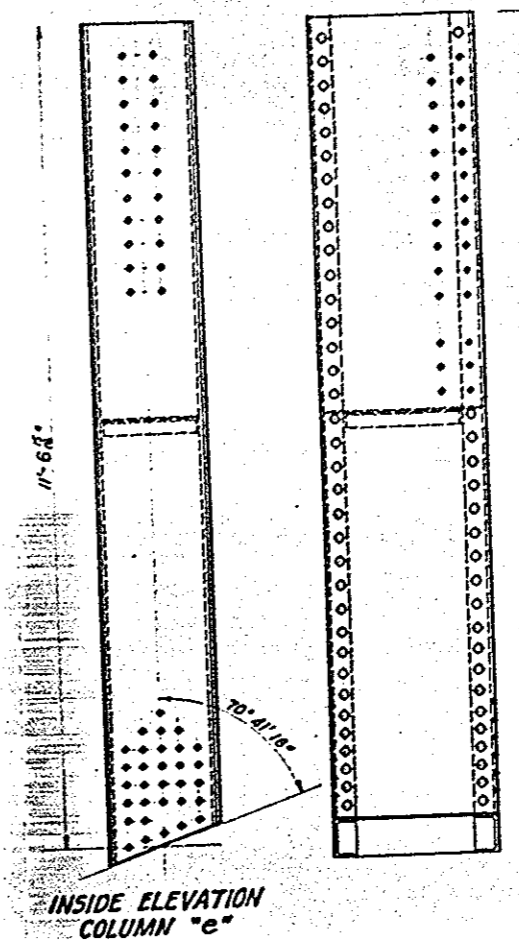
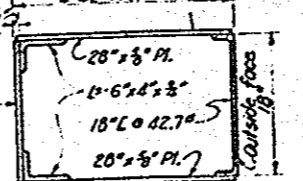


COLUMN SPLICE DETAILS

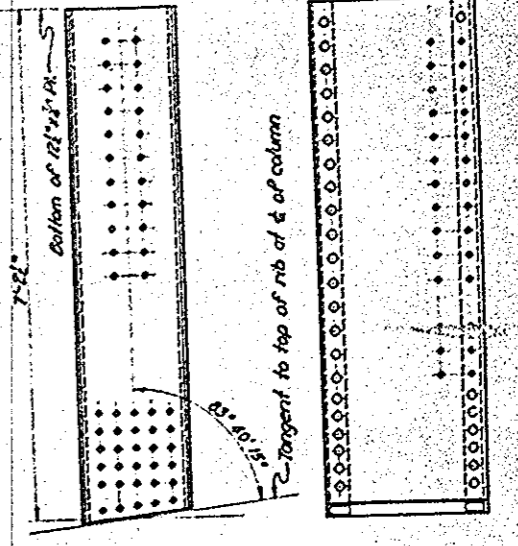
INSIDE ELEVATION COLUMNS "b" & "c"
 Showing typical rivet spacing for all columns



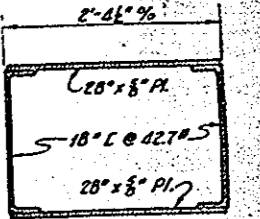
TYPICAL CROSS SECTION COLUMNS "a", "b", "c" & "d"



INSIDE ELEVATION COLUMN "e"



INSIDE ELEVATION COLUMN "f"



TYPICAL CROSS SECTION COLUMNS "e" & "f"

NOTES
 Top of Columns "a" to "f" above 1/2" plate and all of Column "f" shall be filled with "Imbeco" Class "D" concrete after all riveting is completed.

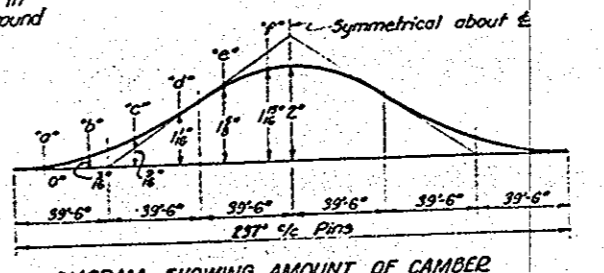


DIAGRAM SHOWING AMOUNT OF CAMBER PROVIDED BY INCREASING LENGTH OF COLUMNS
 Note: Lengths of column shown include above camber

BRIDGE NO. CU-10-88

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

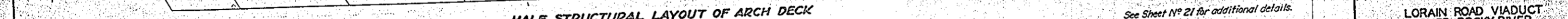
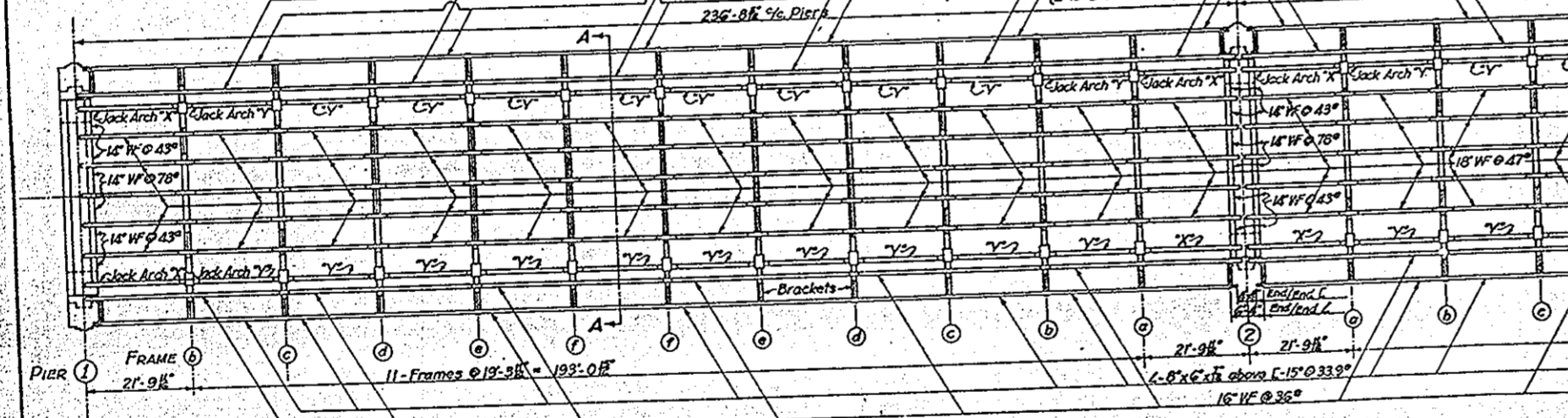
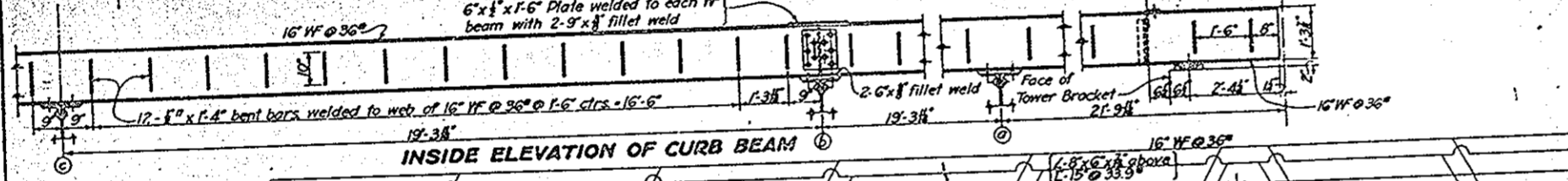
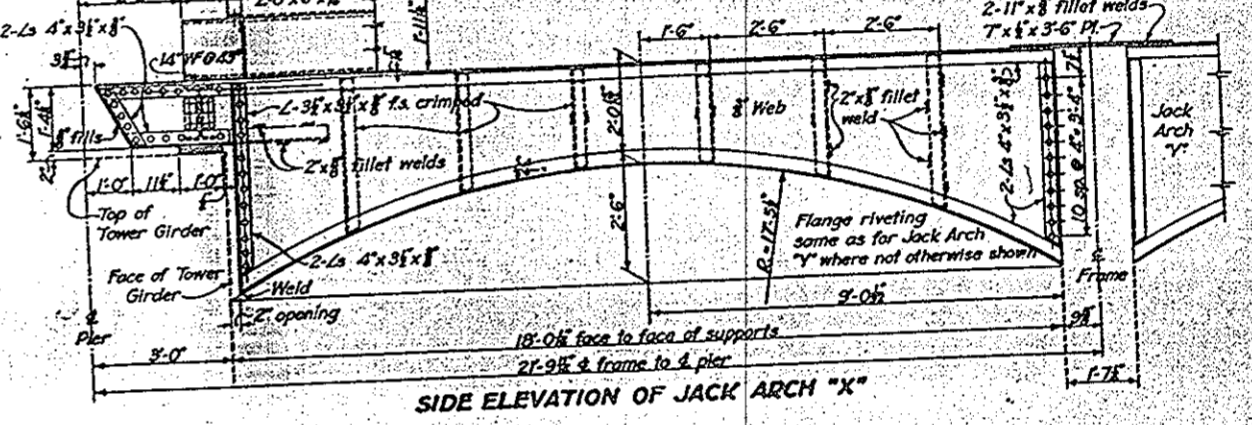
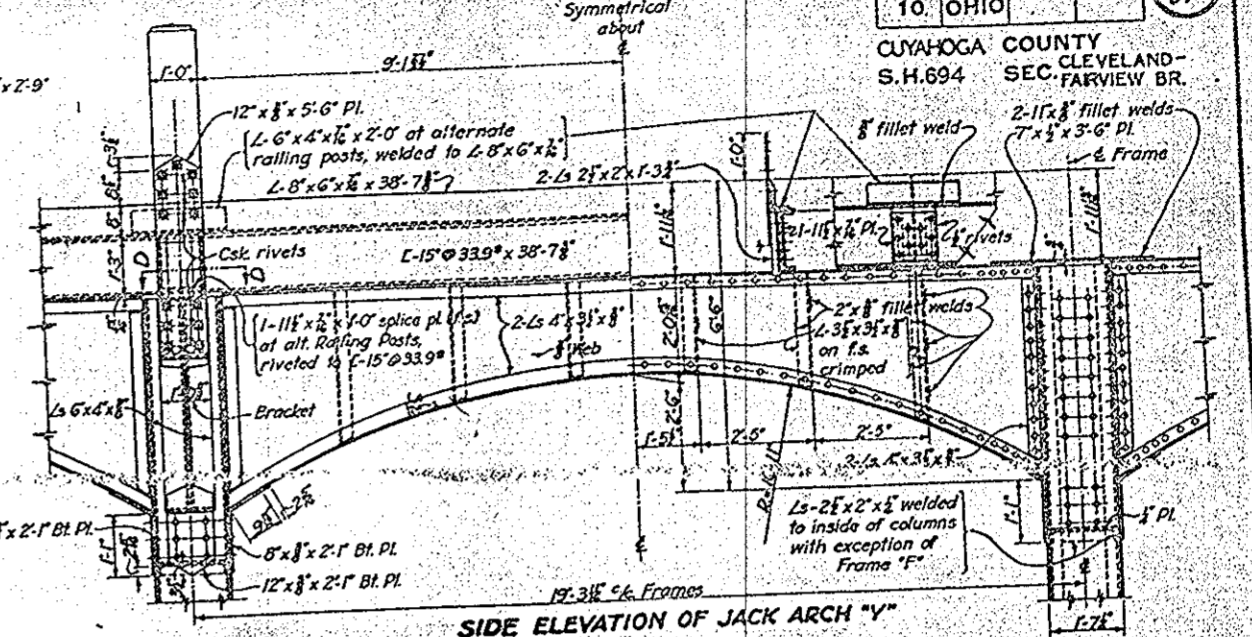
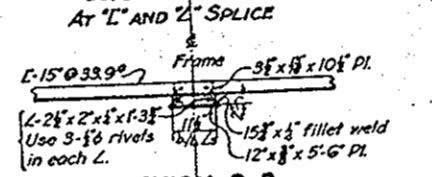
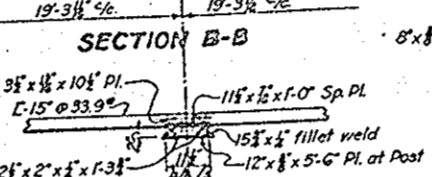
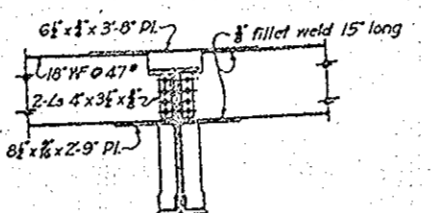
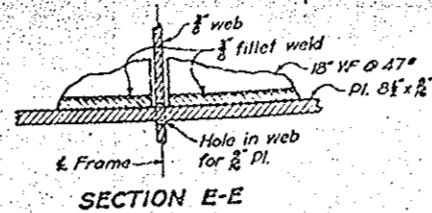
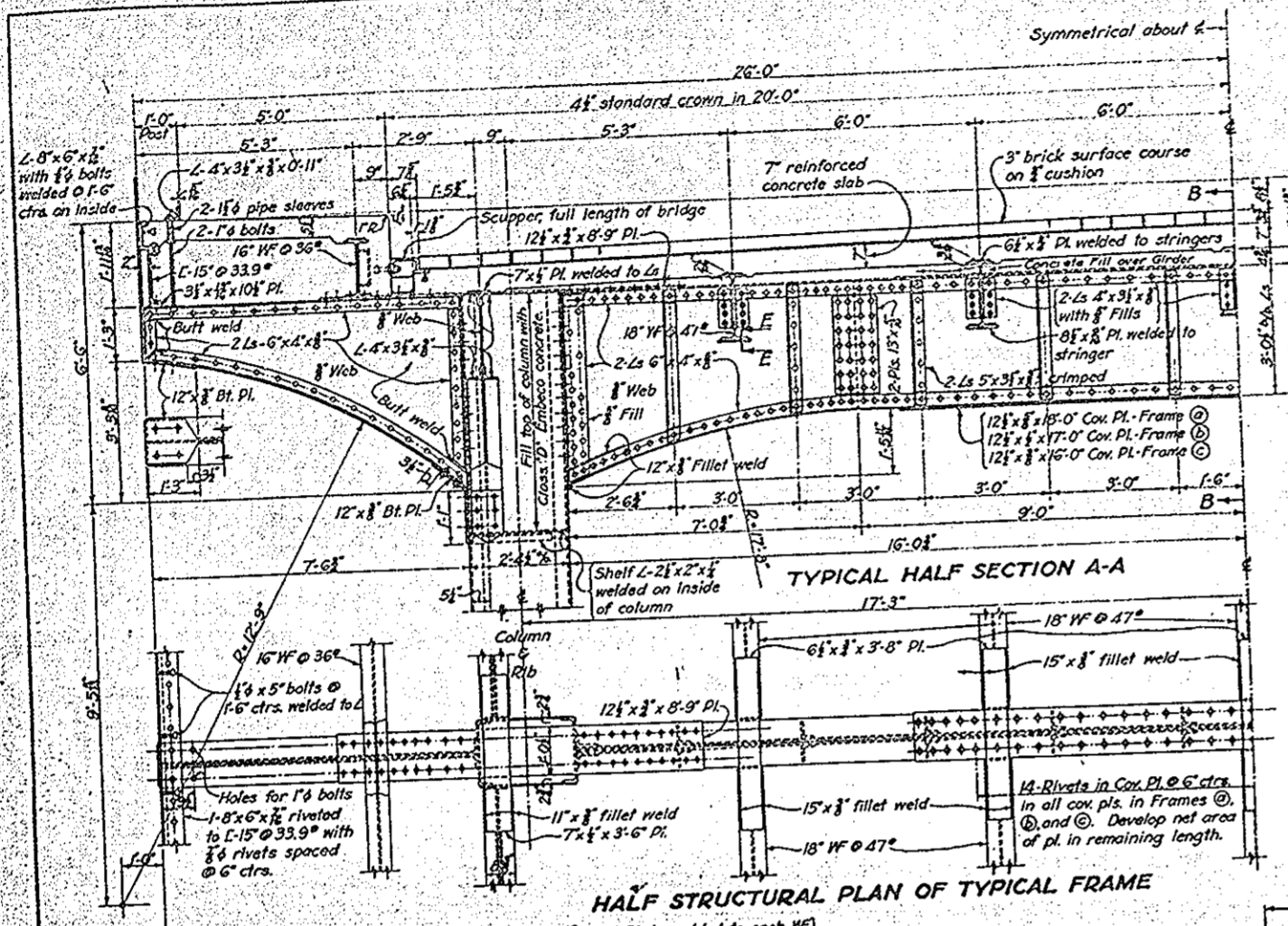
ARCH SPANDREL COLUMNS

LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. SH. 694

DESIGNED	DRAWN	TRACED	CHECKED	DATE	APPROVED
1/27/51	afk	REL	JLM	1/27/51	1/27/51

CUYAHOGA COUNTY
SEC. CLEVELAND -
S.H. 694 SEC. FAIRVIEW BR.



ARCH DECK LAYOUT & DETAILS
LORAIN ROAD VIADUCT
OVER ROCKY RIVER

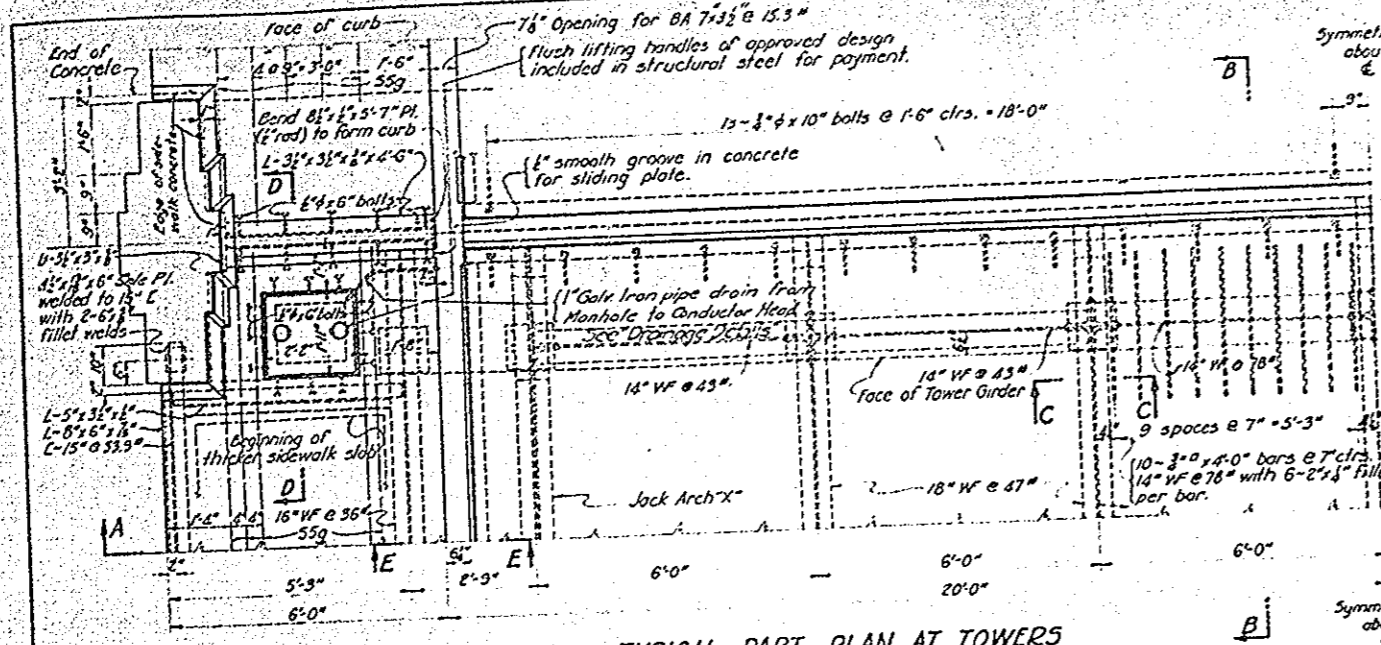
CUYAHOGA COUNTY
SEC. CLEVELAND - FAIRVIEW BR. S.H. 694

DESIGNED	CHECKED	DATE
TRACED	DATE	REVISION
1938	1938	

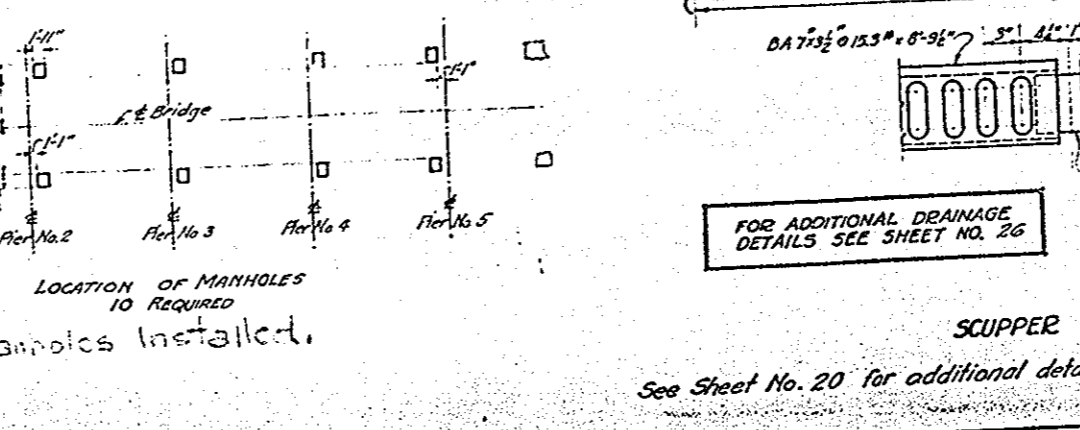
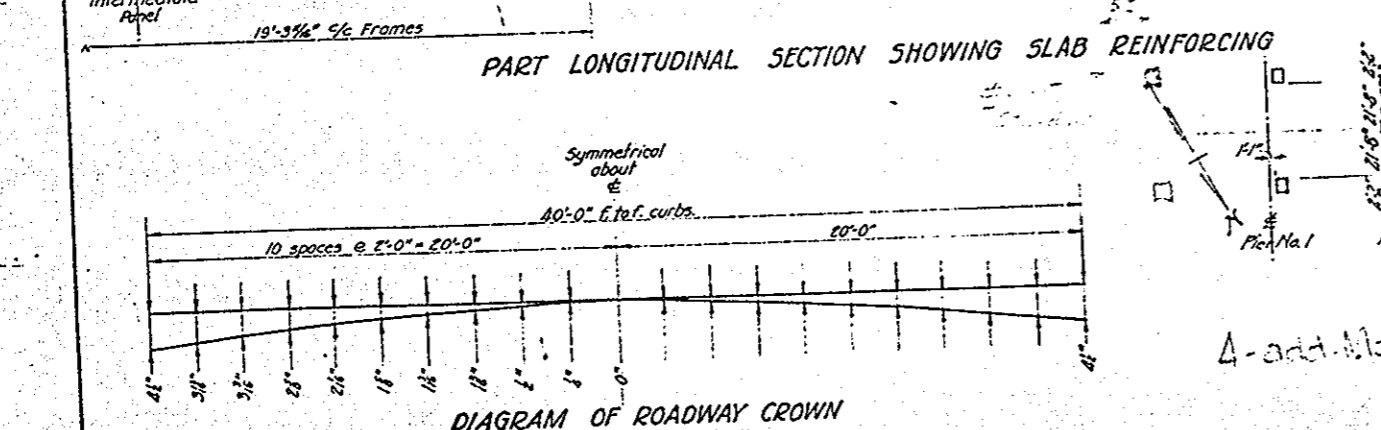
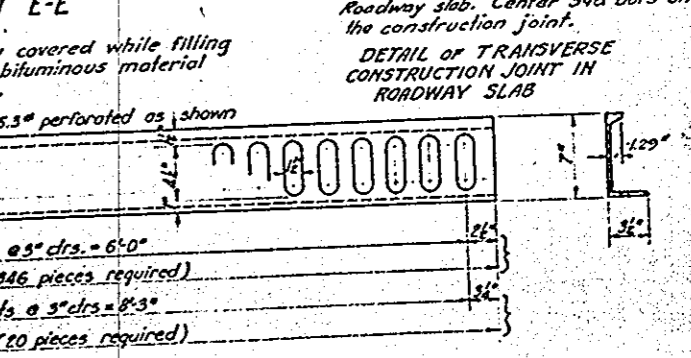
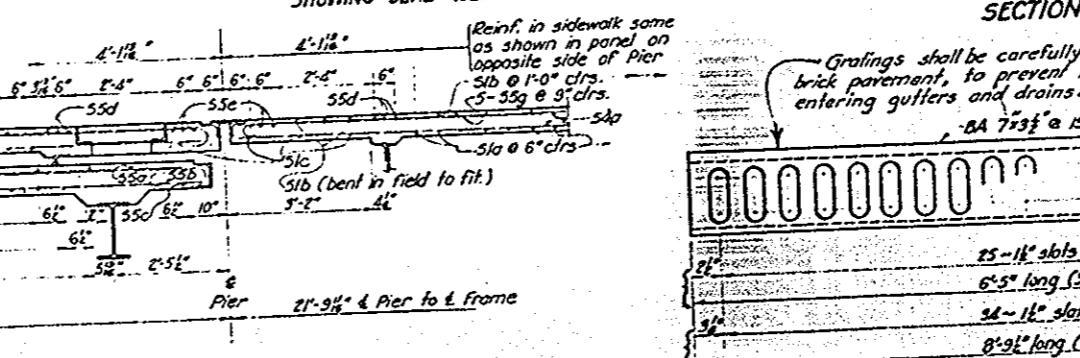
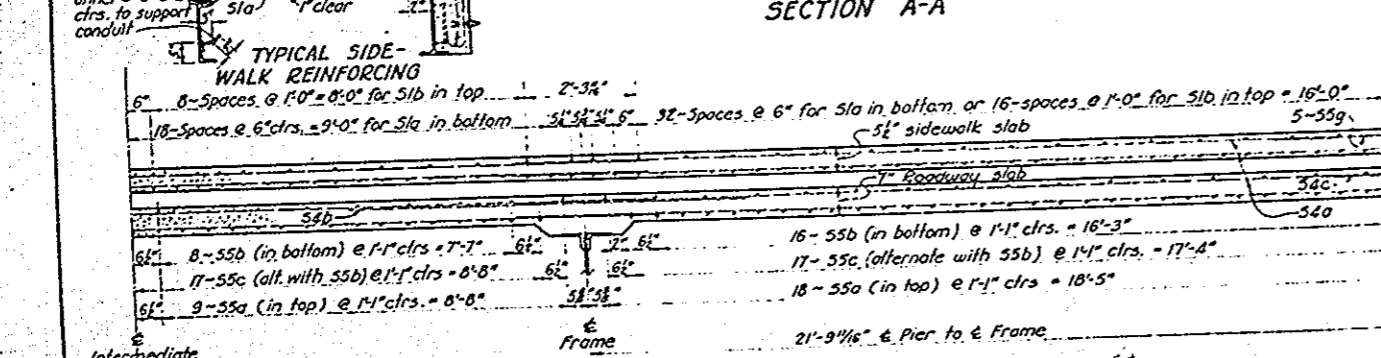
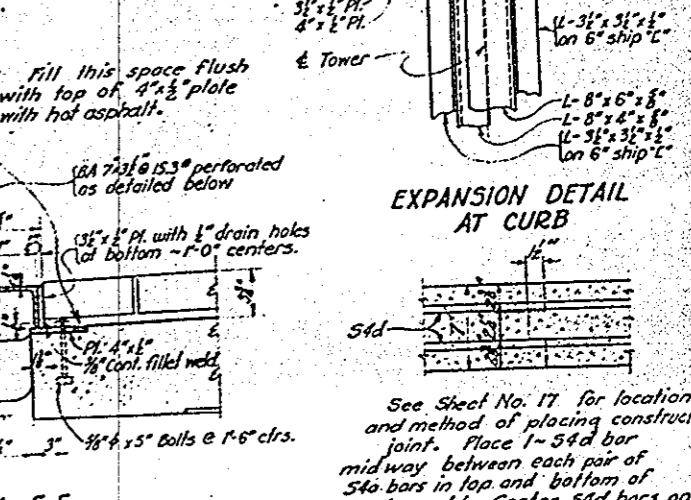
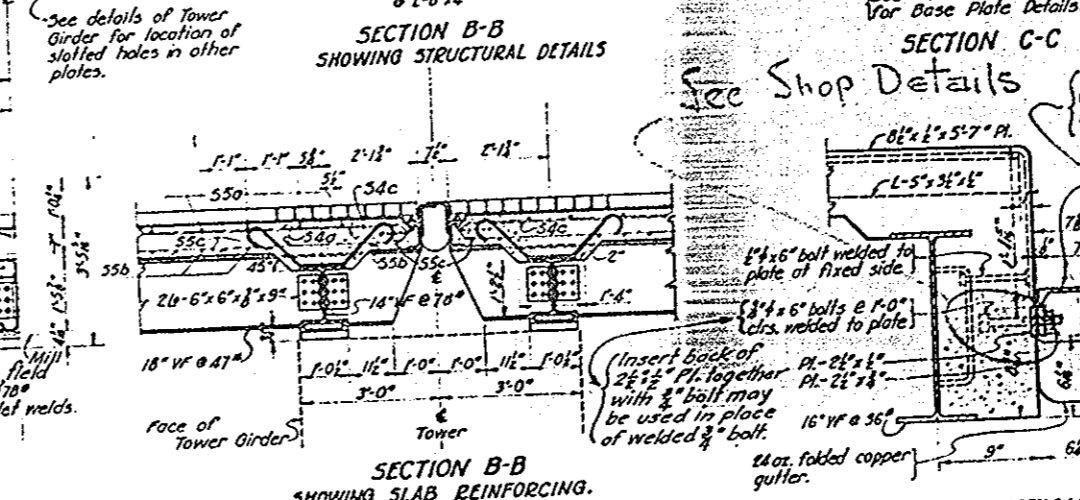
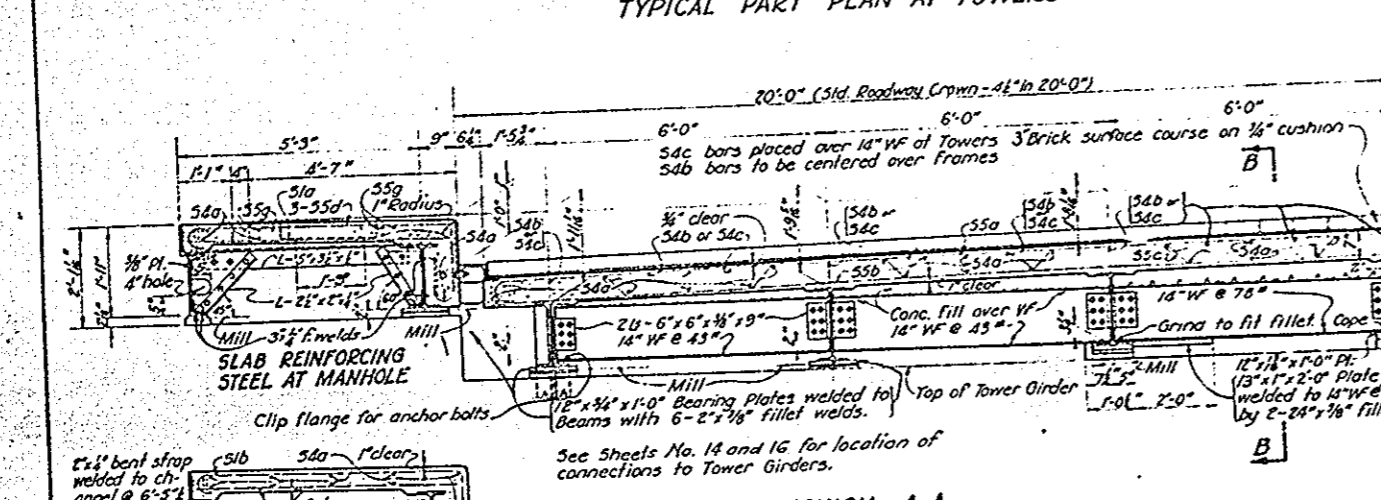
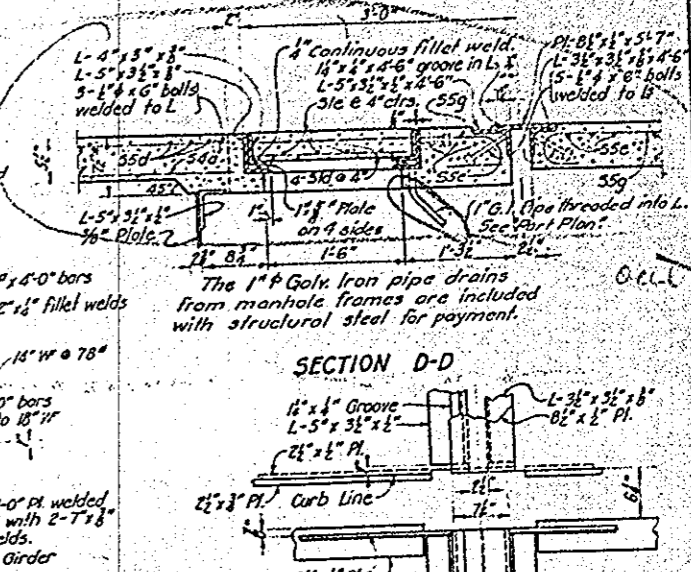
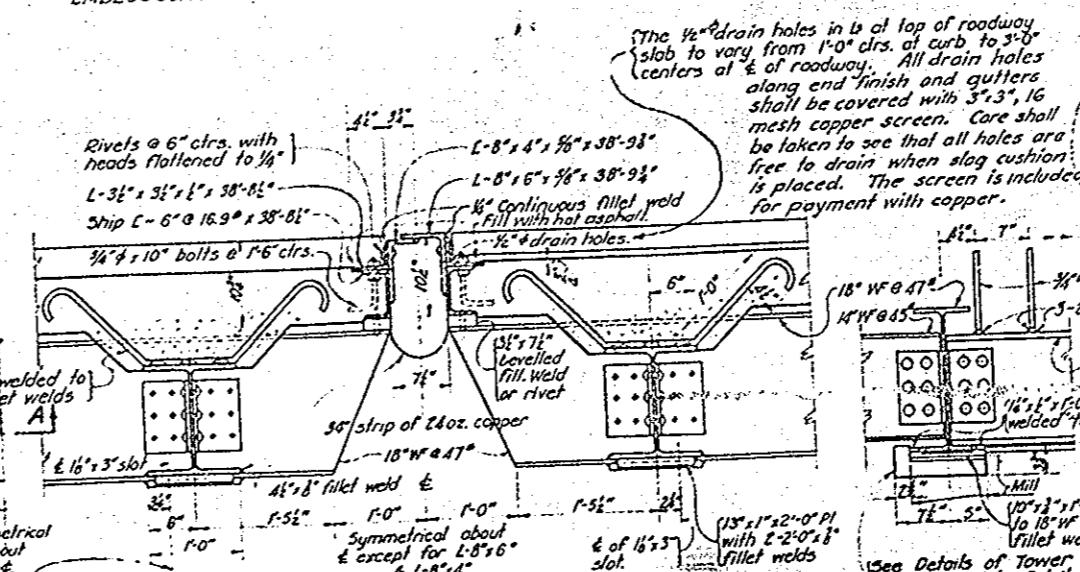
BRIDGE NO. CU-10-03

See Sheet No 21 for additional details.

CUYAHOGA COUNTY
CLEVELAND -
S.H. 694 SEC. FAIRVIEW BR.



CONCRETE, CLASS "A" ARCH DECK - 11400 CUYDOS.
EMISCO CONCRETE, CLASS "D" CURB/FILL - G.S.2 CUYDOS.



BRIDGE No. CU-10-88

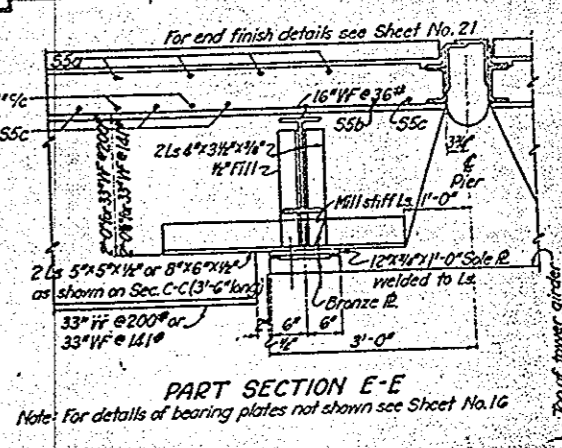
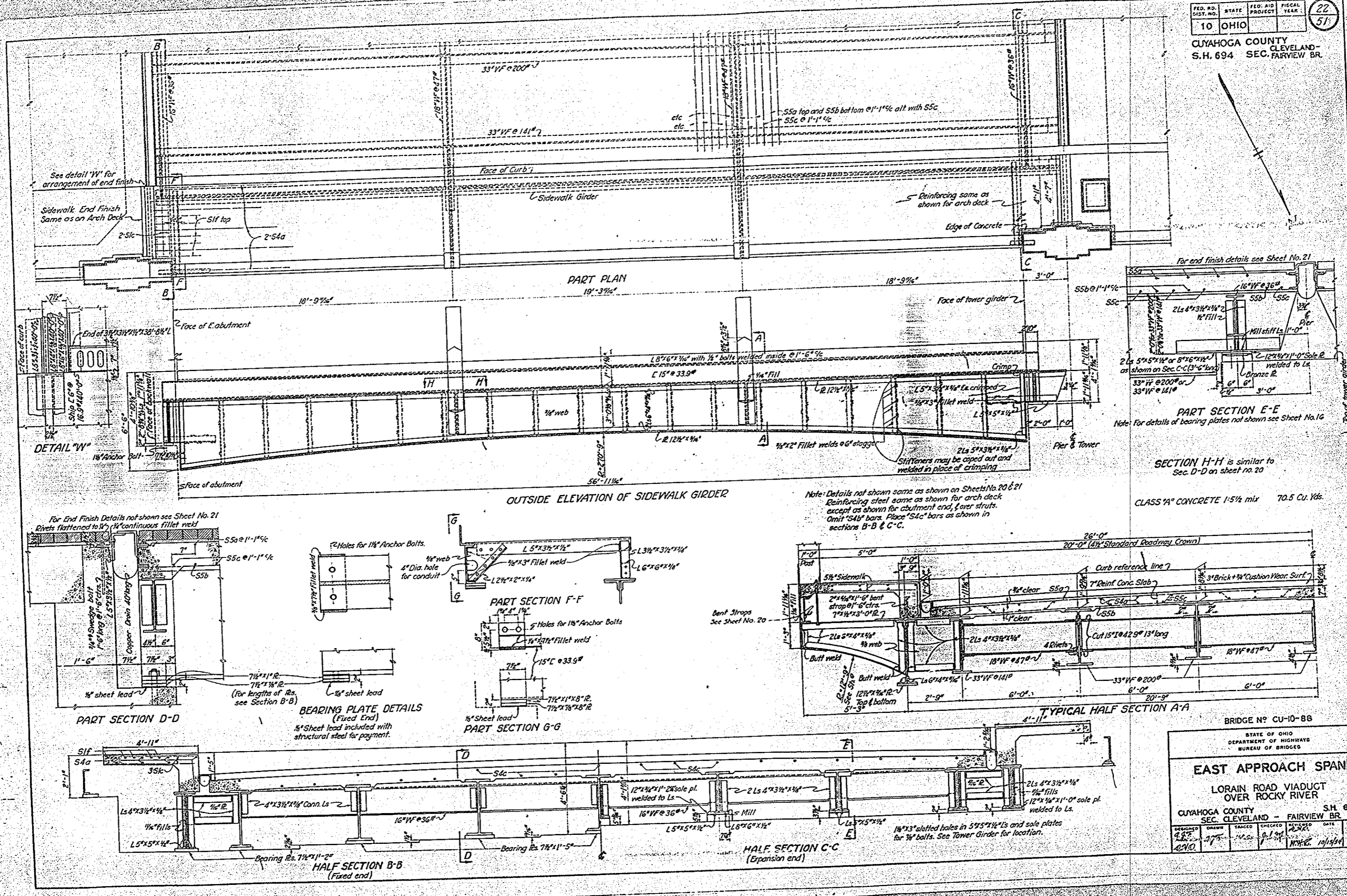
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

ARCH DECK DETAILS

LORAIN ROAD VIADUCT
OVER ROCKY RIVER

CUYAHOGA COUNTY SEC. CLEVELAND - FAIRVIEW BR. S.H. 694

DESIGNED	CHECKED	TRACED	CHECKED	DATE	REVISION
10/22/20	10/22/20	RHL	10/22/20	10/22/20	



SECTION H-H is similar to Sec. D-D on sheet No. 20

CLASS 'A' CONCRETE 1-5/8 min 70.5 Cu. Yds.

Note: Details not shown same as shown on Sheets No. 20 & 21. Reinforcing steel same as shown for arch deck except as shown for abutment and tower struts. Omit 'S4U' bars. Place 'S4C' bars as shown in sections B-B & C-C.

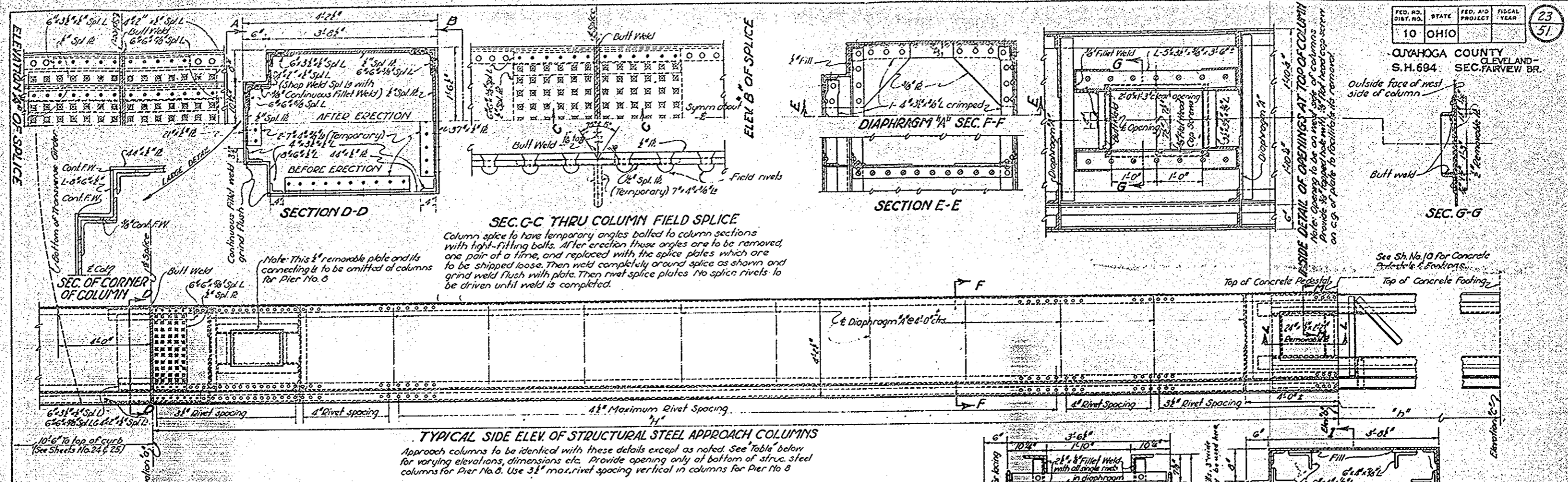
BRIDGE NO. CU-10-88

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

EAST APPROACH SPAN
LORAIN ROAD VIADUCT
OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694

APPROVED	DRAWN	TRACED	CHECKED	DATE	REVISED
2/25/51	J.P.	2/25/51	G.S.	2/25/51	
2/25/51	J.P.	2/25/51	G.S.	2/25/51	

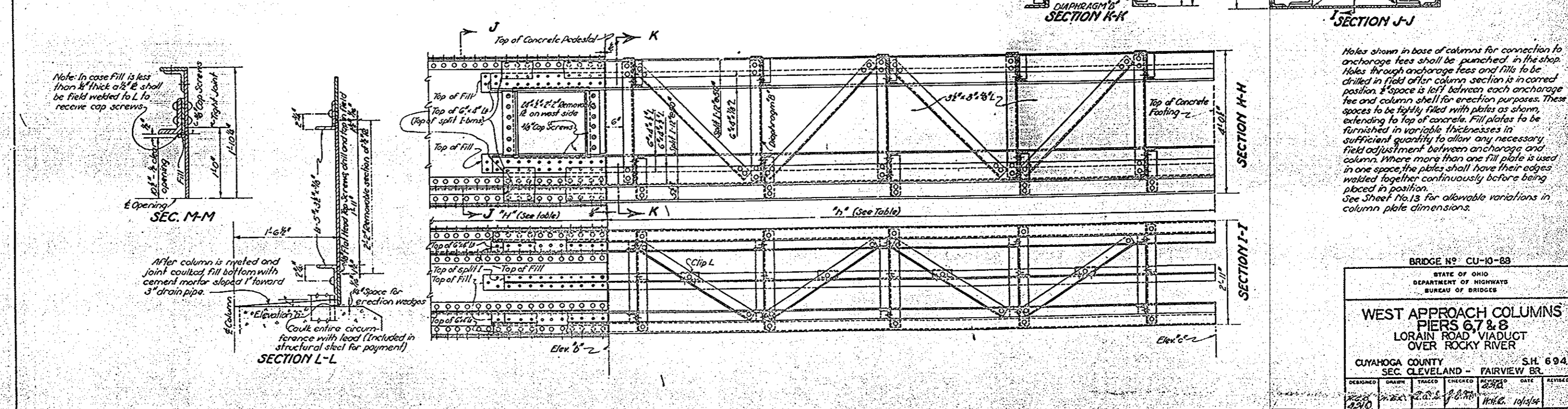


FED. AID PROJECT	23
FISCAL YEAR	51
STATE	OHIO

CUYAHOGA COUNTY
S.H. 694
SEC. FAIRVIEW BR.

TABLE

Column Sta	Dier No	COLUMNS SOUTH OF E ROADWAY				COLUMNS NORTH OF E ROADWAY									
		Elev. to*	Elev. to*	H	T ₁	Elev. to*	Elev. to*	H	T ₁						
32+70.81	6	155.21	104.00	89.50	34'-2 1/2"	14'-6"	12	4	155.21	110.00	92.50	45'-2 1/2"	17'-6"	10	5
32+67.42	7	155.21	116.00	101.50	39'-3 1/2"	14'-6"	9	4	155.21	121.00	103.50	34'-2 1/2"	17'-6"	8	5
33+06.04	8	155.21	143.00	127.50	12'-2 1/2"	15'-6"	3	4	155.21	143.00	127.50	12'-2 1/2"	15'-6"	9	4



BRIDGE NO. CU-10-88

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

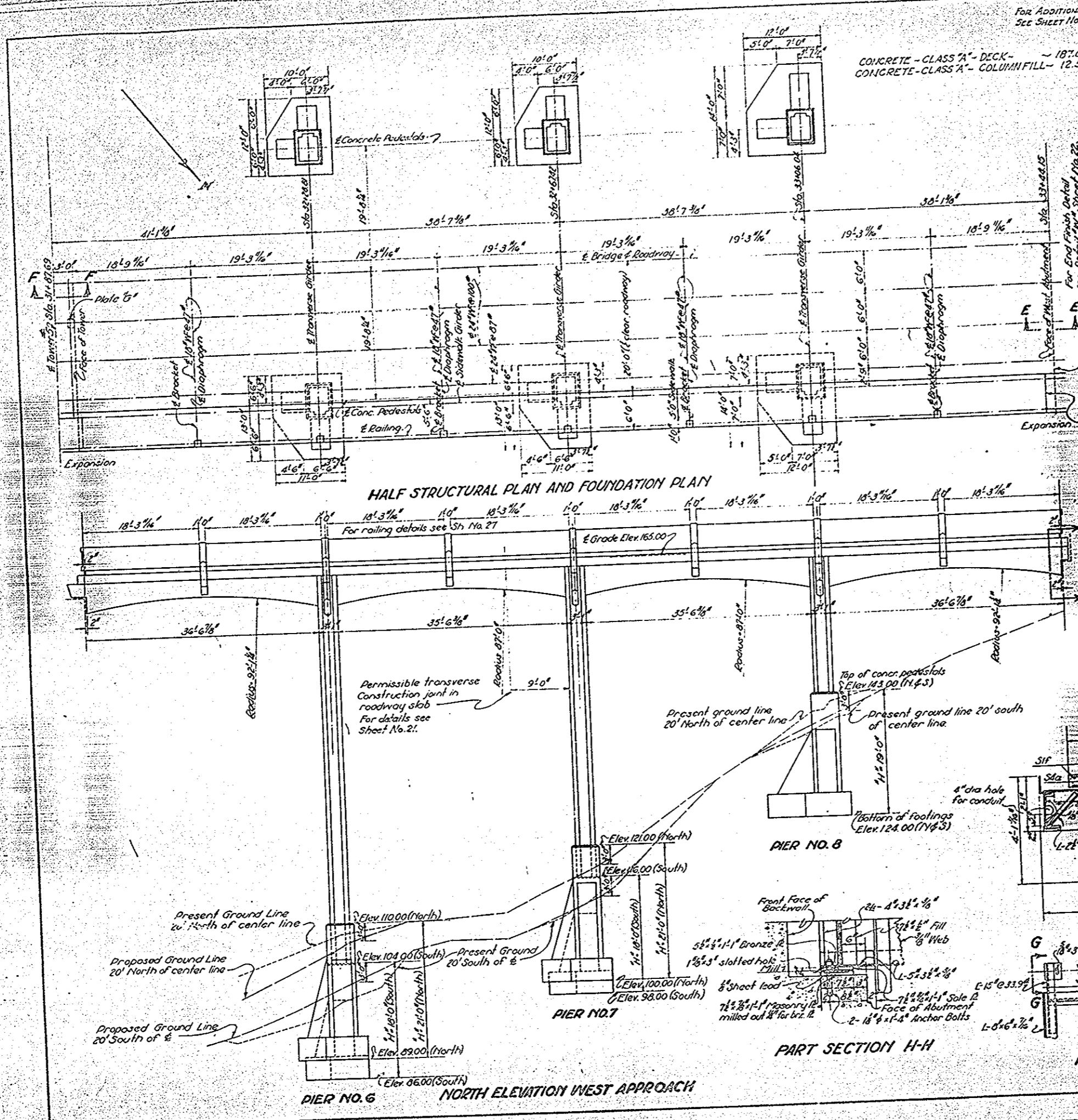
**WEST APPROACH COLUMNS
PIERS 6, 7 & 8
LORAIN ROAD VIADUCT
OVER ROCKY RIVER**

CUYAHOGA COUNTY
SEC. CLEVELAND - FAIRVIEW BR.

DESIGNED	BY	DATE	CHECKED	DATE	REVIEWED
		12/1/50		1/16/51	

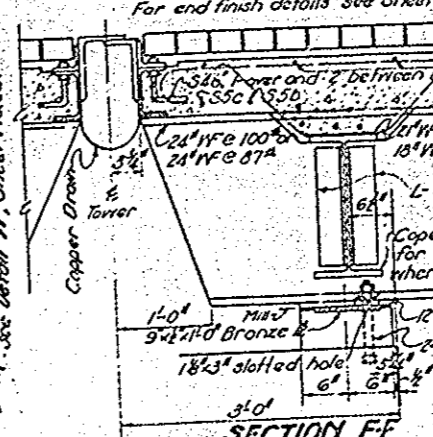
FED. RD. DIST. NO.	STATE	FISCAL YEAR	PROJECT
10	OHIO		

CUYAHOGA COUNTY
S.H. 694 SEC. FAIRVIEW BR.

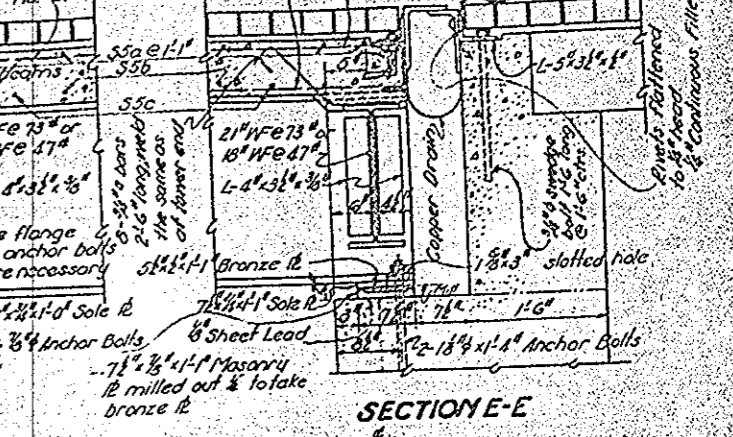


CONCRETE - CLASS "A" - DECK - 187.0 CU YDS.
CONCRETE - CLASS "A" - COLUMN FILL - 12.5 CU YDS.

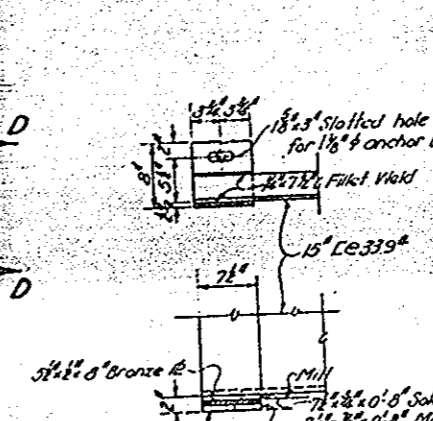
Note: Reinforcing not shown to be as detailed on Arch Deck Details Sheet No. 21 to each 21" W x 73" H with 4" x 4" x 1/2" fillet welds per bar.



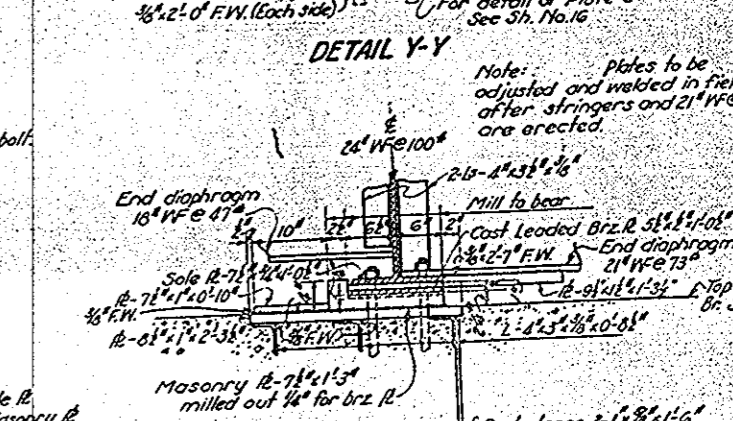
SECTION F-F
Note: For details of bearing plates not shown see Sheet No. 16. Use 1/2" x 3/4" x 10" sole plate on all 21" beams and on sidewalk girders, except of Plate G.



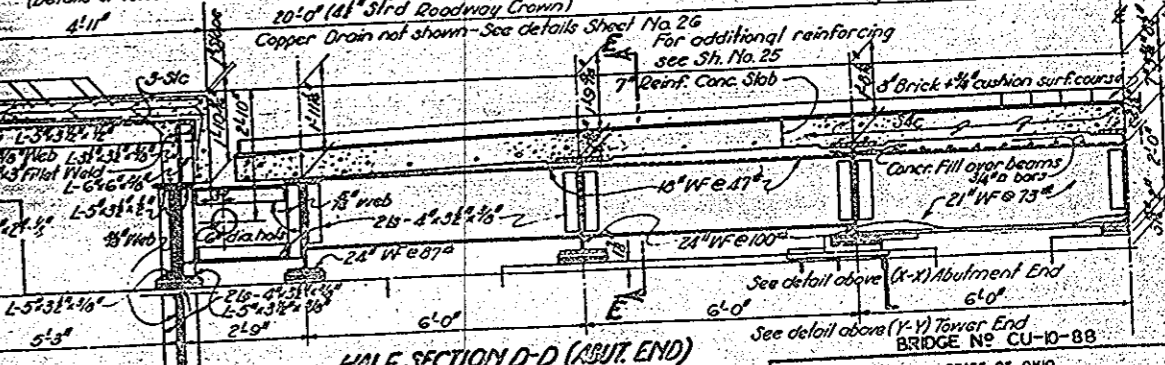
SECTION E-E
Note: For details of Plate G see Sh. No. 16.



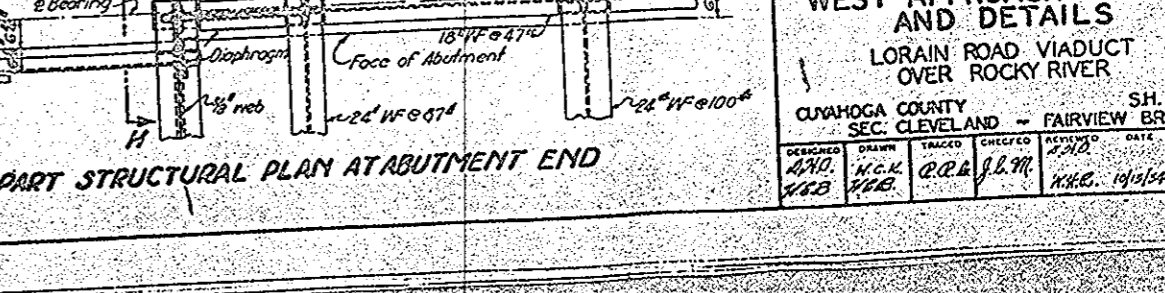
DETAIL Y-Y
Note: Plates to be adjusted and welded in field after stringers and 21" beams are erected.



DETAIL X-X
Symmetrical about C-C.

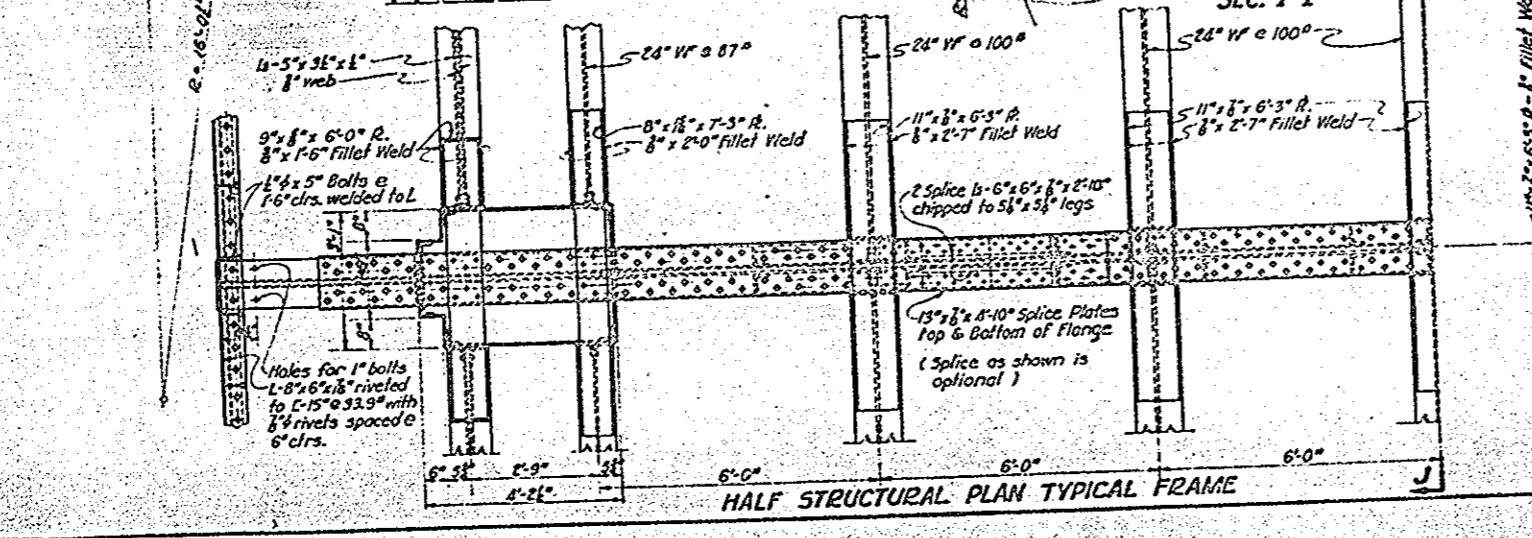
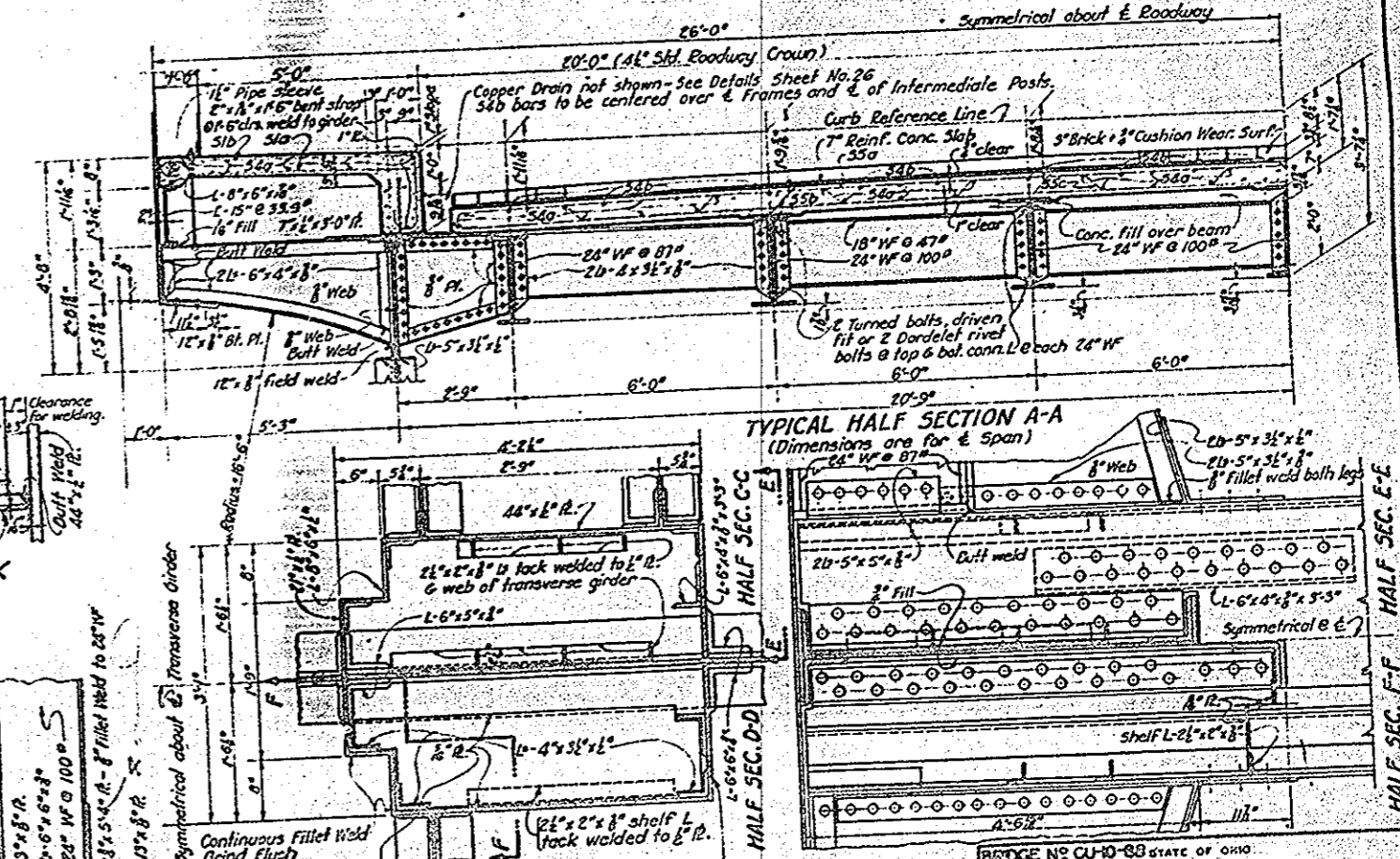
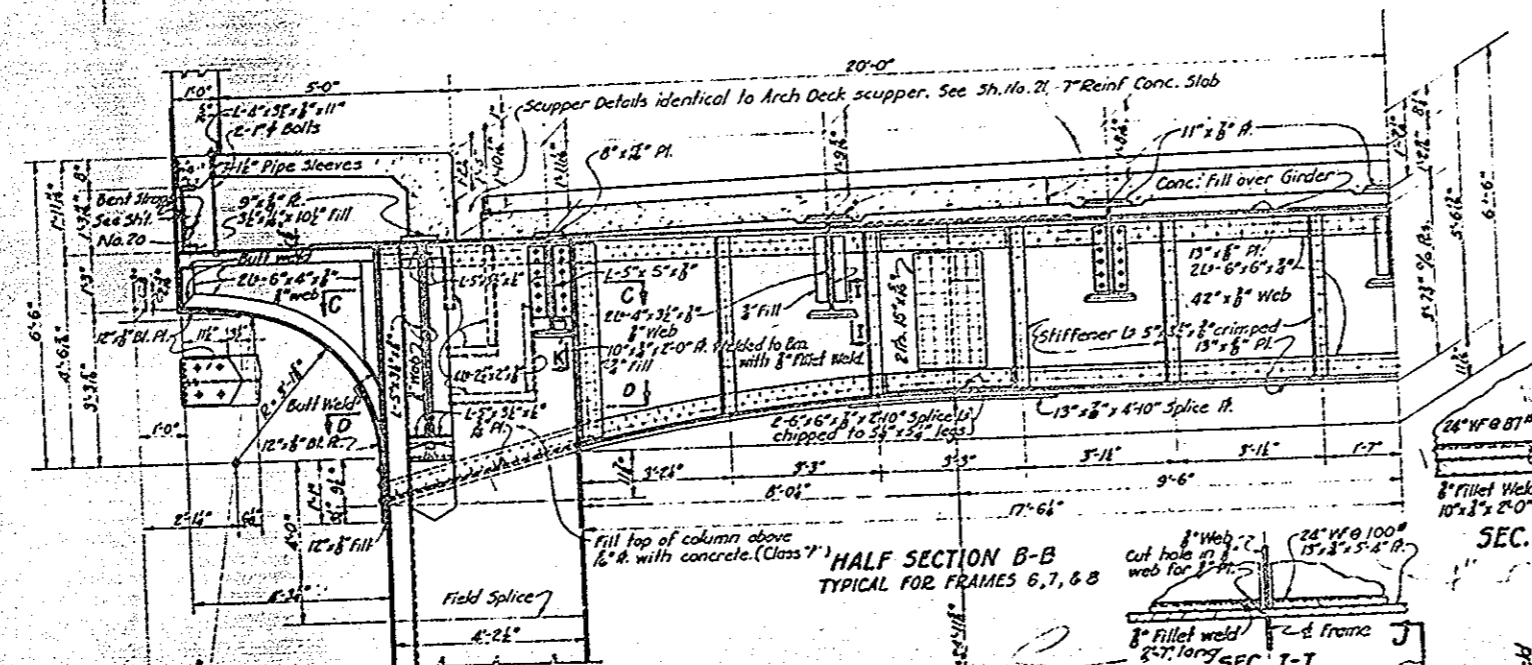
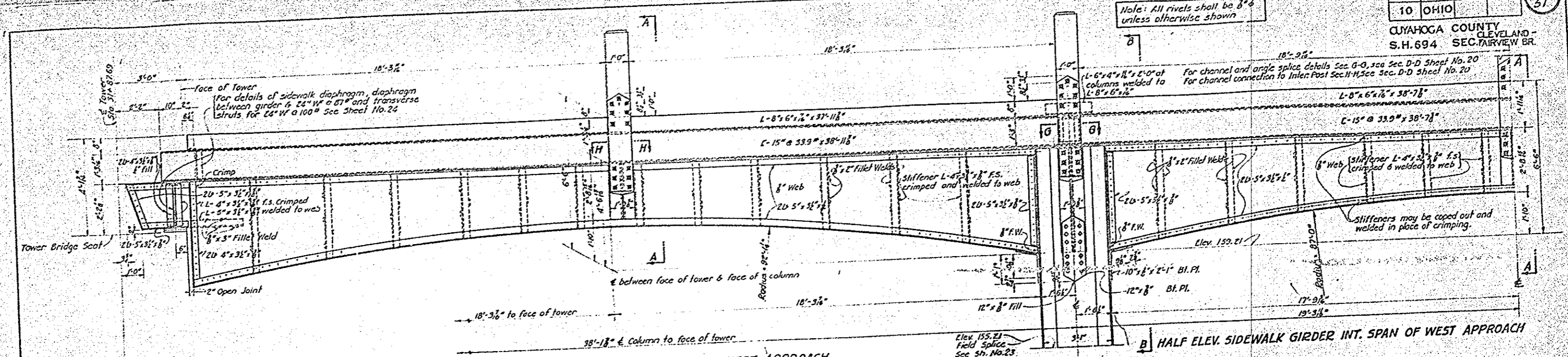


PART STRUCTURAL PLAN AT ABUTMENT END



PART SECTION D-D (ABUT END)

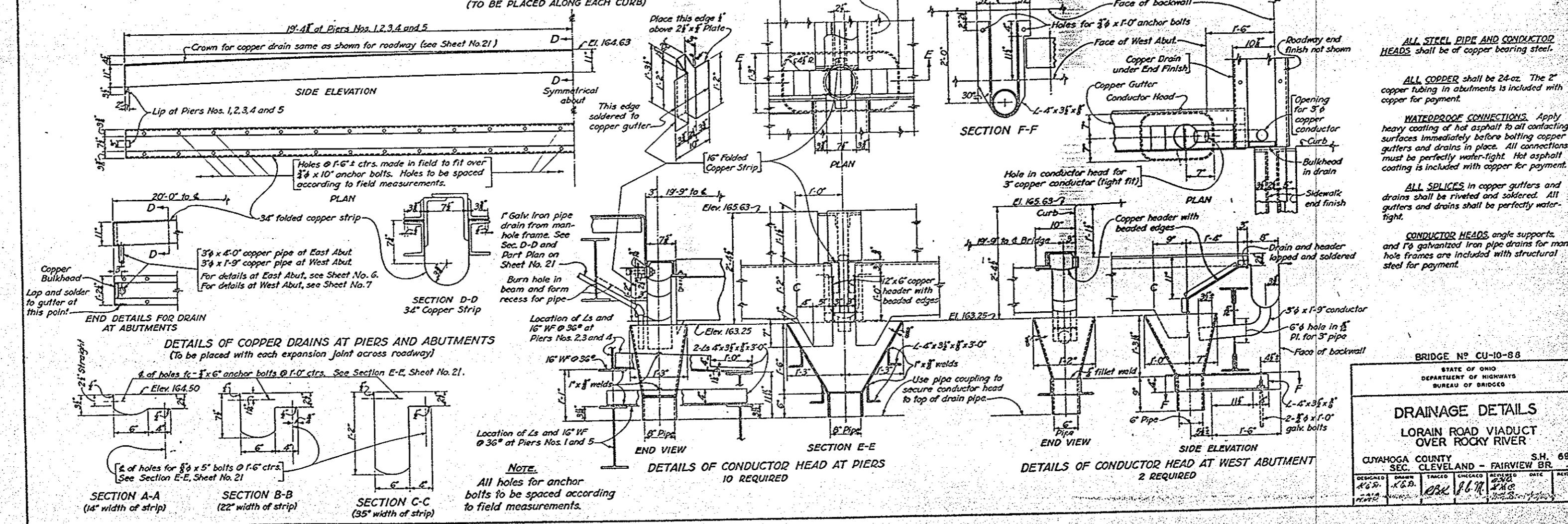
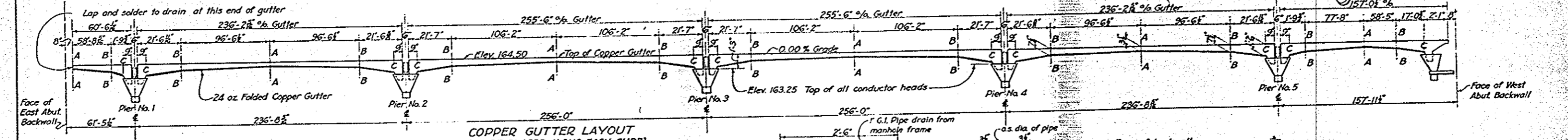
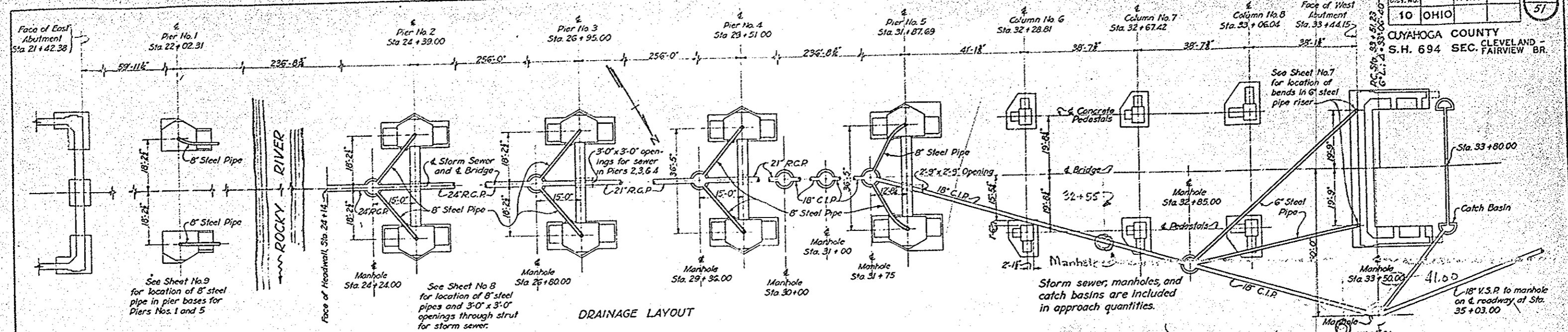
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES			
WEST APPROACH LAYOUT AND DETAILS			
LORAIN ROAD VIADUCT OVER ROCKY RIVER			
CUYAHOGA COUNTY SEC. CLEVELAND - FAIRVIEW BR.		S.H. 694	
DESIGNED BY	CHECKED BY	DATE	REVISED
W.C.K.	R.O.B.	10/25/54	



WEST APPROACH DETAILS
 LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUYAHOGA COUNTY CLEVELAND & FARVIEW BR. S.H. 694

DESIGNED	DRAWN	CHECKED	DATE	REVIEWED
W.C.C.	W.C.C.	R.L.	12/20/30	W.C.C.



ALL STEEL PIPE AND CONDUCTOR HEADS shall be of copper bearing steel.

ALL COPPER shall be 24-oz. The 2" copper tubing in abutments is included with copper for payment.

WATERPROOF CONNECTIONS. Apply heavy coating of hot asphalt to all contacting surfaces immediately before bolting copper gutters and drains in place. All connections must be perfectly water-tight. Hot asphalt coating is included with copper for payment.

ALL SPLICES in copper gutters and drains shall be riveted and soldered. All gutters and drains shall be perfectly water-tight.

CONDUCTOR HEADS angle supports and 10 galvanized iron pipe drains for manhole frames are included with structural steel for payment.

BRIDGE NO. CU-10-88

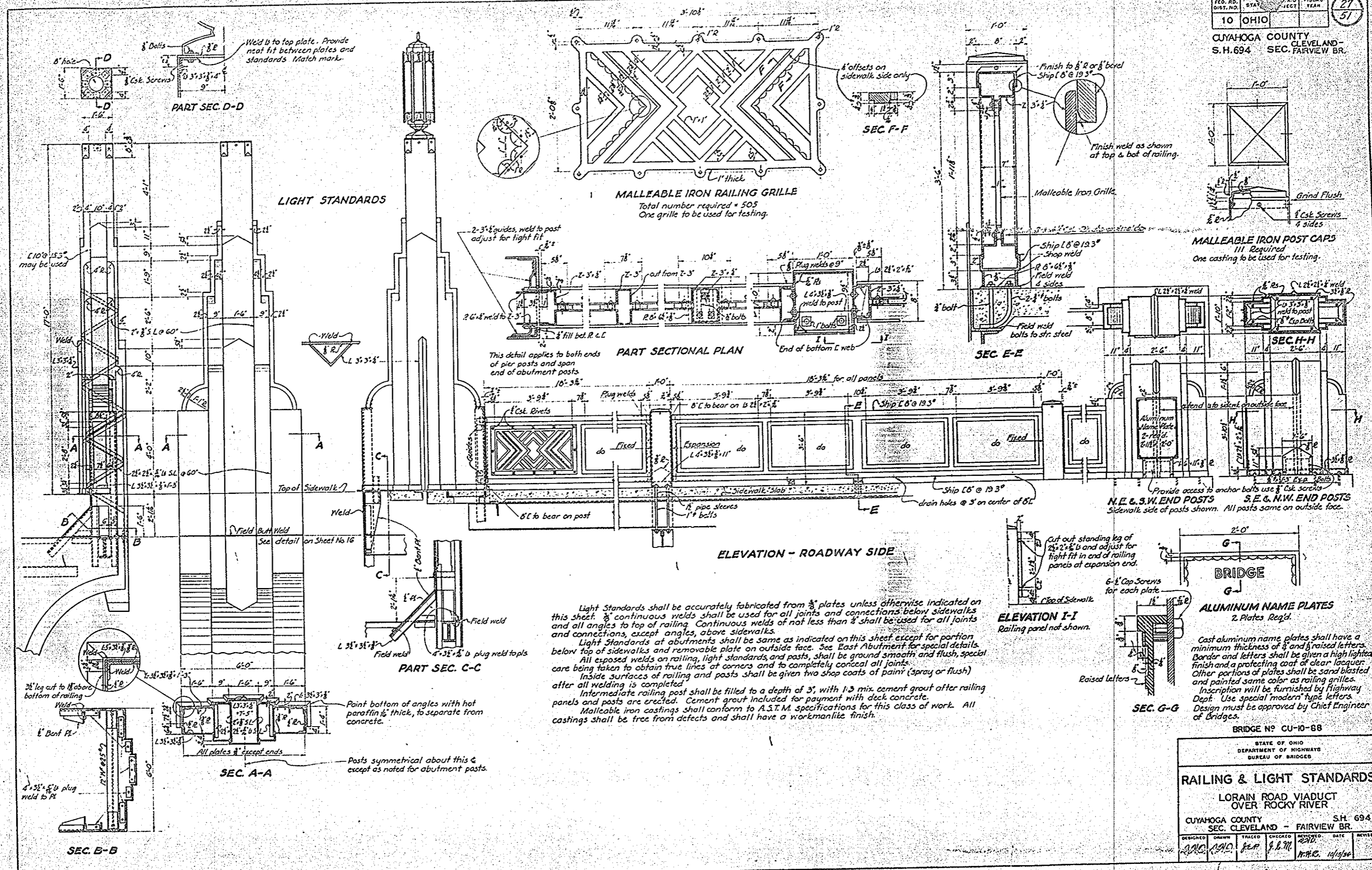
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

DRAINAGE DETAILS
LORAIN ROAD VIADUCT
OVER ROCKY RIVER

CUYAHOGA COUNTY
S.H. 694
CLEVELAND - FAIRVIEW BR.

DESIGNED	DRAWN	CHECKED	APPROVED	DATE	REVISION
K.C.B.	K.C.B.	J.L.W.	J.L.W.	10-23-28	

NOTE.
All holes for anchor bolts to be spaced according to field measurements.



Light Standards shall be accurately fabricated from $\frac{3}{8}$ " plates unless otherwise indicated on this sheet. $\frac{3}{8}$ " continuous welds shall be used for all joints and connections below sidewalks and all angles to top of railing. Continuous welds of not less than $\frac{3}{8}$ " shall be used for all joints and connections, except angles, above sidewalks.

Light Standards at abutments shall be same as indicated on this sheet except for portion below top of sidewalks and removable plate on outside face. See East Abutment for special details. All exposed welds on railing, light standards, and posts, shall be ground smooth and flush, special care being taken to obtain true lines at corners and to completely conceal all joints.

Inside surfaces of railing and posts shall be given two shop coats of paint (spray or flush) after all welding is completed.

Intermediate railing post shall be filled to a depth of 3' with 1:3 mix cement grout after railing panels and posts are erected. Cement grout included for payment with deck concrete.

Malleable iron castings shall conform to A.S.T.M. specifications for this class of work. All castings shall be free from defects and shall have a workmanlike finish.

Cast aluminum name plates shall have a minimum thickness of $\frac{3}{8}$ " and raised letters. Border and letters shall be given a high lighted finish and a protecting coat of clear lacquer. Other portions of plates shall be sand blasted and painted same color as railing grilles. Inscription will be furnished by Highway Dept. Use special modern type letters. Design must be approved by Chief Engineer of Bridges.

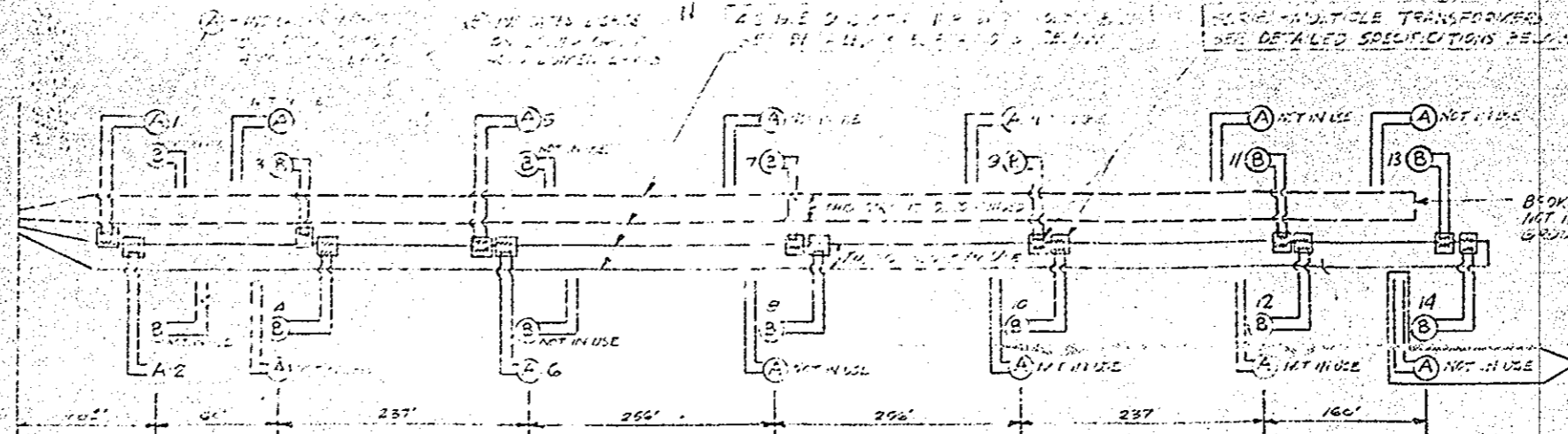
BRIDGE NO. CU-10-68

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

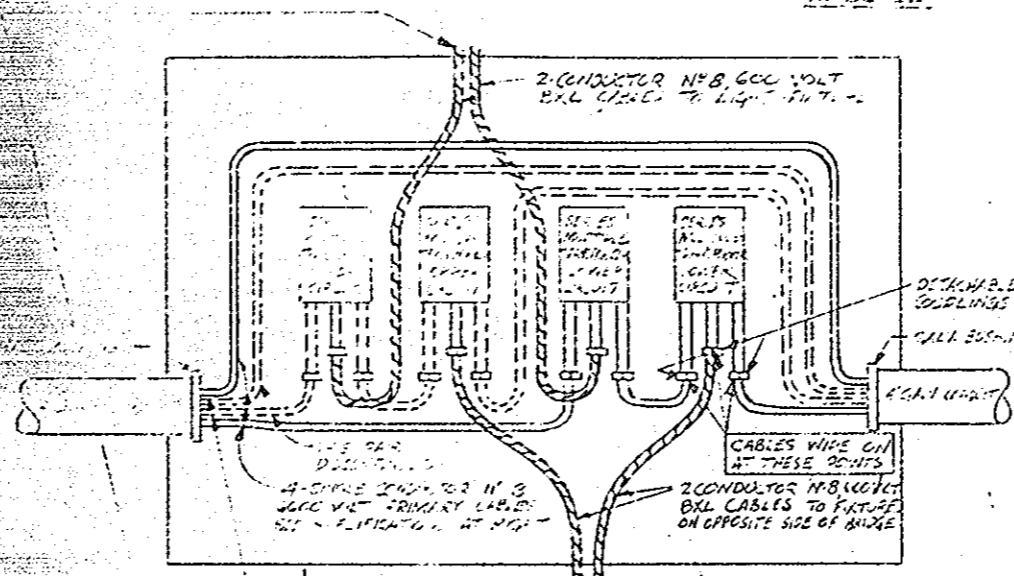
RAILING & LIGHT STANDARDS
LORAIN ROAD VIADUCT
OVER ROCKY RIVER

CUYAHOGA COUNTY S.H. 694
SEC. CLEVELAND - FAIRVIEW BR.

DESIGNED	DRAWN	TRACED	CHECKED	APPROVED	DATE	REVISION
J.M.C.	A.M.D.	J.E.P.	J.E.M.	A.H.C.	11/19/36	



WIRING DIAGRAM
12.27.24



NOTE: 2-CONDUCTOR NO. 8 CABLES NOT IN USE
2-1 PHASES NOT IN USE

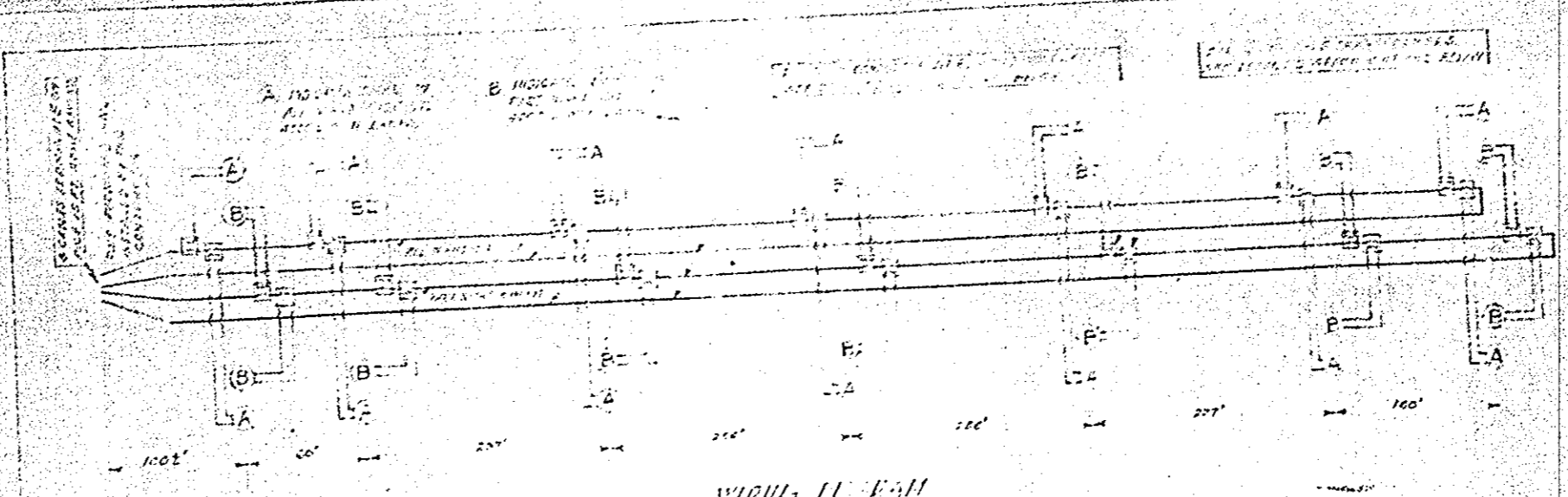
NOTE: 110V AC HAS BEEN DISCONTINUED
EXCEPT WHERE NOTED, BUT STILL IS
AVAILABLE FOR TRANSFORMER USE AND CAN BE
RE-APPLIED TO CIRCUIT NOW IN
USE IF NECESSARY

CHANGES AS OF JUNE 25, 1934
NUMBER 1-2-3-4 LIGHTING STANDARDS TO BE
ILLUMINATED FROM TOP SOCKETS
NUMBER 5-6-7-8-9-10-11-12-13-14 LIGHTING STANDARDS
TO BE ILLUMINATED FROM BOTTOM SOCKET
ALL OTHER FUTURE CHANGES TO BE NOTED.

NOTES

SYSTEM: THE SYSTEM SHALL BE 60 CYCLE, 110 VOLTS OF ONE
PHASE WITH CURRENT CARRYING CAPACITY 15 AMP
AND A 4.50 VA SECONDARY TRANSFORMER FOR
110 V STANDARD.
CONDUIT: ALONG THE SOUTH SIDE OF THE BRIDGE WHERE SWAYING
IS MINIMUM FROM THE FACE OF THE BRIDGE ABUTMENT TO
THE FACE OF THE FIRST ABUTMENT, SHALL BE INSTALLED
A 2" DIAMETER GALVANIZED STANDARD FULL WEIGHT
CONDUIT WITH SUITABLE OUTLETS AT MANHOLES AND
MANSARD BOXES.
3" CONDUIT IN ABUTMENT WING WALLS
CABLE: THE PRIMARY CABLE SHALL BE 2-CONDUCTOR NO. 8 SOLID
CABLE INSULATED WITH 1/16" THICKNESS OF 30% PERFORMANCE
TEST RUBBER FOR 6000 VOLTS, IN ACCORDANCE WITH THE SPECIFICATIONS
OF THE NATIONAL POWER CABLE ENGINEERS ASSOCIATION. LEAD SHEATH
OF THE CABLE SHALL HAVE A THICKNESS OF 1/16" WHICH IS 50%
GREATER THAN THE SPECIFICATIONS OF THE I.R.C.E.A.
THE SECONDARY CABLE SHALL BE TWO-CONDUCTOR NO. 8 BXL
CABLE INSULATED WITH 30% PERFORMANCE TEST RUBBER FOR
6000 VOLTS, WITH LEAD SHEATH AND FLEXIBLE STEEL ARMOR.
TRANSFORMERS: IN INDIVIDUAL SERIES-MULTIPLE TRANSFORMERS
OF THE 4.50 VA, 1500 AMP SECONDARY CAPACITY ACCORDING
TO I.R.C.E.A. SPECIFICATIONS SHALL BE MANHOLE TYPE WITH PRIMARY AND
SECONDARY DETACHABLE COUPLINGS SIMILAR TO GENCO JAT. 01 N. 1/2 01
LAMP: THERE SHALL BE 25-4000 LUMEN, 1/2 AMP, SERIES TYPE
FLUORESCENT LAMP BURNING.
POWER AND MAINTENANCE: THE POWER FOR THIS BRIDGE LIGHTING
SYSTEM AND THE MAINTENANCE OF THE LIGHTING SYSTEM
IN GOOD PHYSICAL CONDITION IS TO BE FURNISHED BY THE
COMMISSIONERS OF CUYAHOGA COUNTY.

CUYAHOGA COUNTY ENGINEER
LIGHTING SYSTEM DETAILS
LOKAN RA WADAT 618 ROCKY RIVER
DESIGNED BY
THE COLLIER CONSTRUCTION
FIRM EXCHANGE BLDG
CLEVELAND OHIO
DRAWN AND CHECKED
DATE JUNE 24, 1934
BY: SCANN JUNE 4, 1937



VIEW II PLAN

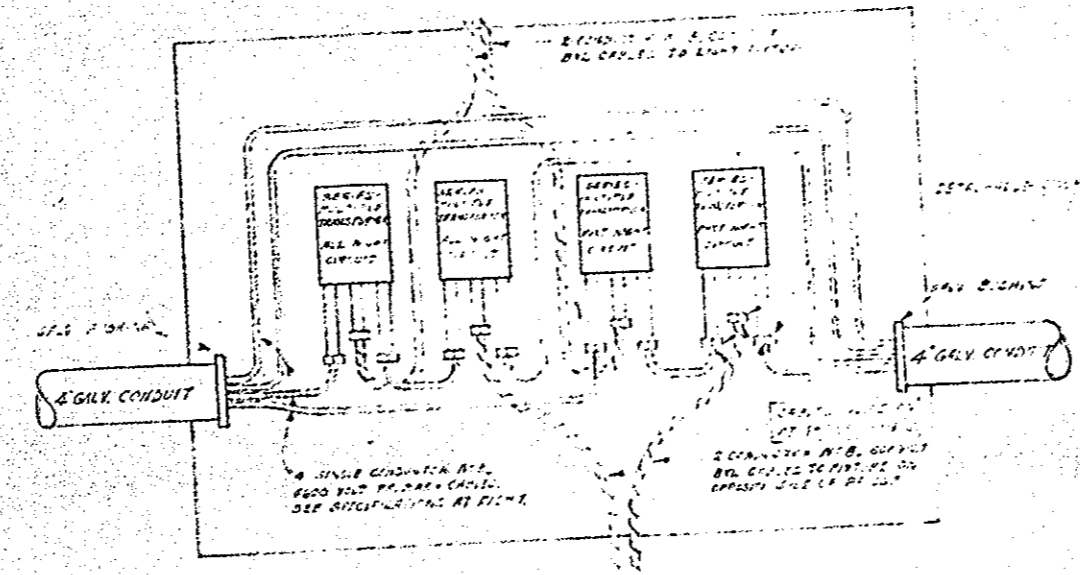


DIAGRAM
SHOWING PLAN OF GENERAL
ARRANGEMENT OF CABLES AND
TRANSFORMER CONNECTIONS
SEE TO SCALE

NOTES

SYSTEM - THE SYSTEM SHALL BE 60 CYCLE, CONSISTING OF TWO
CONSTANT CURRENT 150 AMP CIRCUITS, HAVING INDIVIDUAL 60 AMP
PRIMARY AND 1500 AMP SECONDARY TRANSFORMERS FOR EACH
CIRCUIT.

CABLES - ALONG THE NORTH SIDE OF THE BRIDGE, WHERE CHAINS
AND BUNDLES FROM THE EASTERN END OF THE MAIN WALL OF THE
BRIDGE ARE TO BE INSTALLED, SHALL BE INSTALLED A 4\"/>

CONDUITS - ALONG THE NORTH SIDE OF THE BRIDGE, WHERE CHAINS
AND BUNDLES FROM THE EASTERN END OF THE MAIN WALL OF THE
BRIDGE ARE TO BE INSTALLED, SHALL BE INSTALLED A 4\"/>

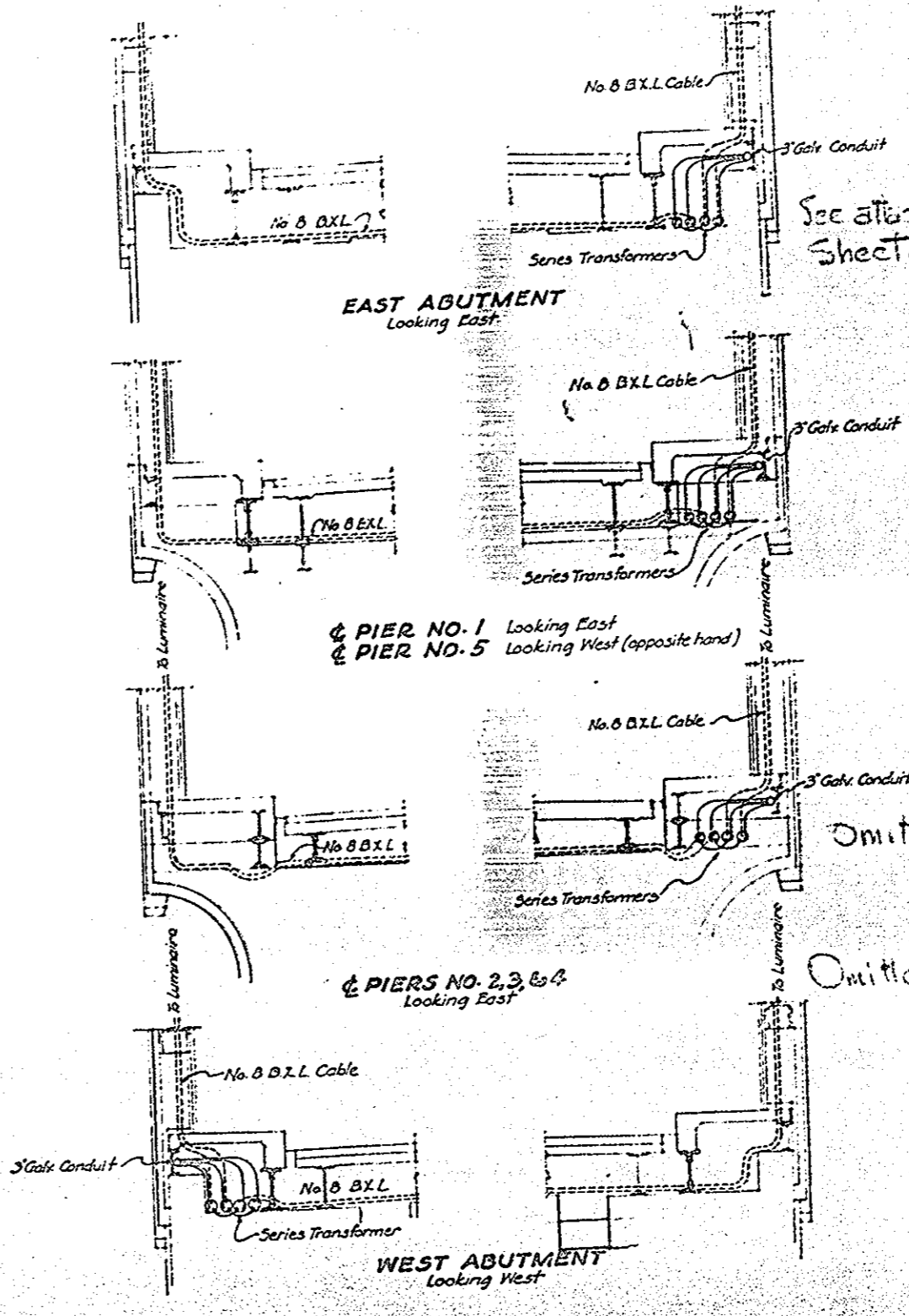
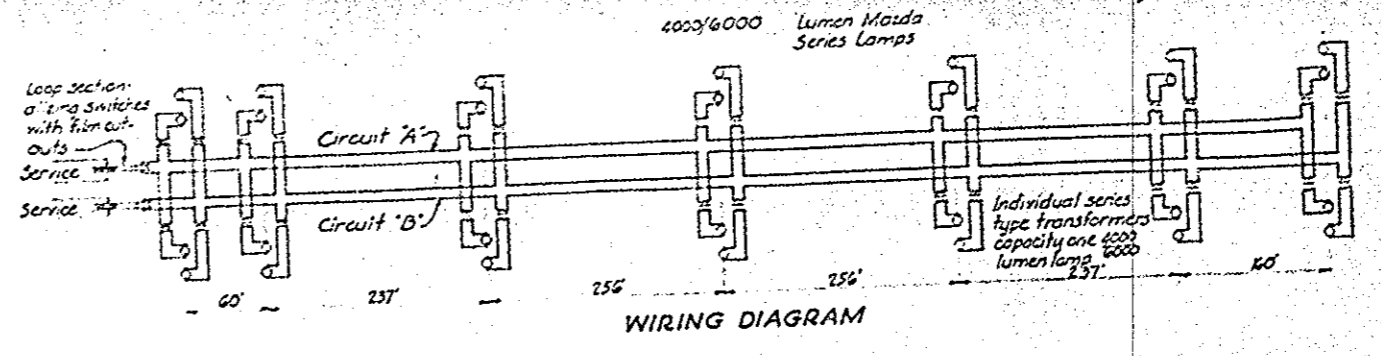
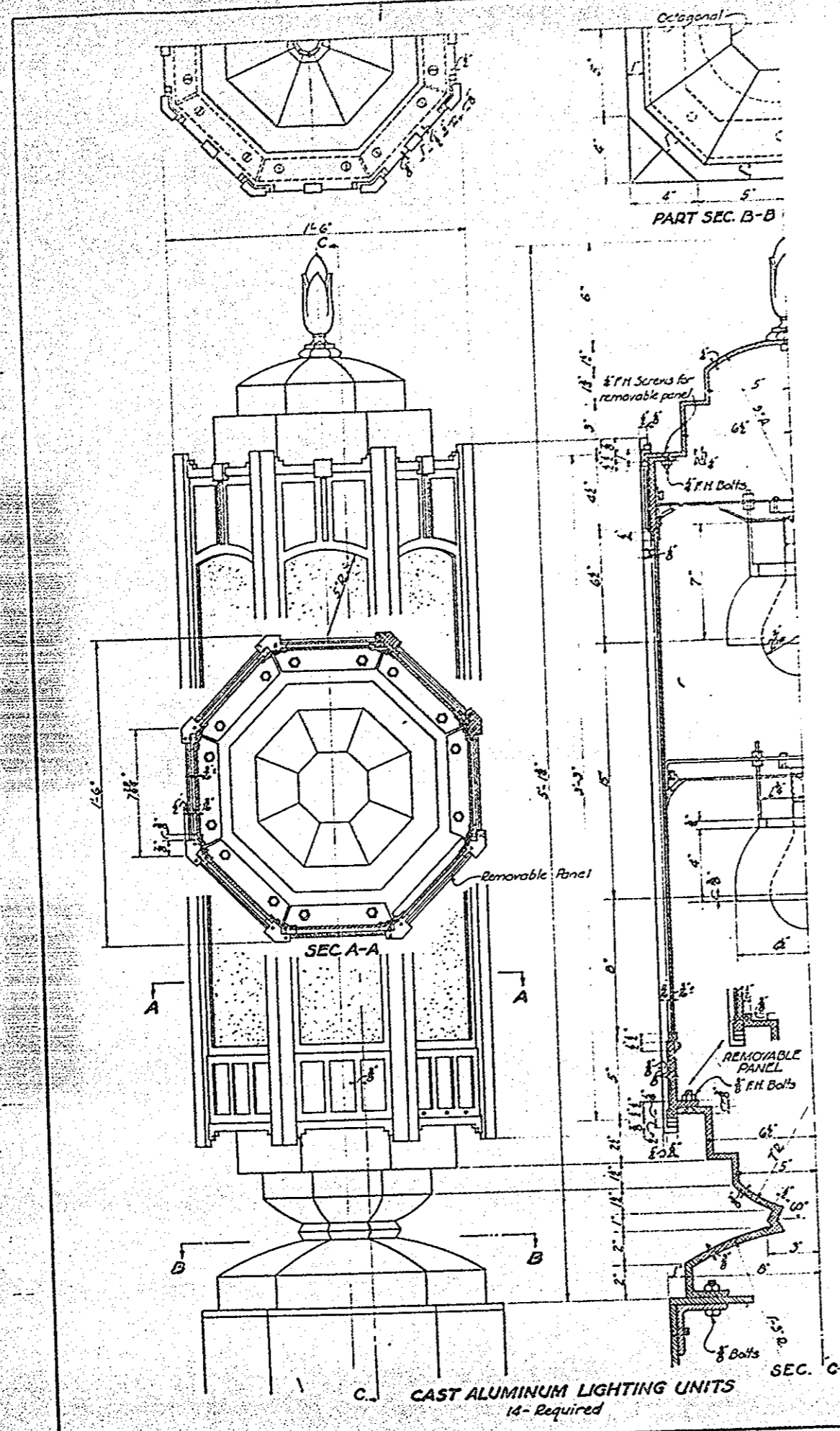
TRANSFORMERS - TWO INDIVIDUAL 1500 AMP PRIMARY,
150 AMP SECONDARY, 1500 AMP SECONDARY,
CAPACITY 1000/1500 LBS. SHALL BE PROVIDED FOR EACH
CIRCUIT. WITH PRIMARY AND SECONDARY DISCONNECTS
SIMILAR TO THOSE SHOWN ON DRAWING NO. 1000.

LEADS - THESE SHALL BE 25 - 0000 LEMIN, 15 AMP
CABLES WITH HARD LAMPS, BASE OF WIRING.

POWER - THE POWER FOR THIS
BRIDGE LIGHTING SYSTEM AND THE MAINTENANCE OF
THE LIGHTING SYSTEM IN GOOD PHYSICAL CONDITION
IS TO BE PROVIDED BY THE COMMISSIONERS OF
CLATSOP COUNTY.

SEE
REVISED
PLAN
DATE
JUN 24 1935

LIGHTING SYSTEM DETAILS
LOCATED ALONG THE ROCKY RIVER
BRIDGE, CLATSOP COUNTY,
OREGON, AS REVISED BY
THE COLLIER CONSTRUCTION CO.
ELECTRICAL ENGINEERS
1000 COMMERCIAL AVENUE
PORTLAND, OREGON
DATE JUNE 24 1935



NOTES

SYSTEM: The system shall be 60 cycle, consisting of two constant current series circuits, having individual transformers 66 Amp primary and 1750 Amp secondary, for each light.

CONDUIT: Along the south side of the bridge, where shown, and running from the extreme end of the wing wall of the East abutment to the extreme end of the wing wall of the West abutment, shall be installed a 3 diameter galvanized standard full weight conduit with suitable outlets to serve the luminaires. Including run to service pole. All in accord with Item S-25.05.

CABLE: The primary cable shall be two conductor No 10 copper with paper insulation for 6600 volts encased in a sheath of lead O.D. 1.23 in. weight 2.44 lb/ft Cleveland Electric Illuminating Co. Standard. The secondary cable shall be two conductor No. 8 BXL Rubber insulation for 600 volts with lead sheath and flexible steel armor. All in accord with Item I-25.05.

TRANSFORMERS: 28 individual series type transformers 66 Amp primary 1750 Amp secondary. Capacity one 4000/6000 lumen lamp each. Manhole type with primary and secondary detachable couplings.

DISCONNECTS: For each of the two circuits provide a G E cutout or disconnecting switch for loop sectionalizing.

LIGHTING UNITS: The lighting units shall consist of 14 two lamp luminaires of special design as shown on this drawing with a B-Sym-Ctric Dome reflector and series receptacle for each lamp. The luminaire shall be cast from virgin aluminum (Alcoa 23 ingot). All bolts, screws, lamp and reflector supports shall be made of aluminum alloy IT 31. All exposed surfaces shall be given a "Satim Finish" and a protective coating of transparent lacquer. All materials and workmanship shall conform to the recommendations of the Aluminum Company of America. The glass panels shall be 1/2" Synite or Moss glass as manufactured by Pittsburgh Plate Glass Co. or the equivalent, sand blasted on the smooth side, and mounted in unit with rippled side out, using weather tight gaskets.

LAMPS: There shall be 28 - 4000 lumen series type Mazda lamps, base up burning.

POWER AND MAINTENANCE: The power for this bridge lighting system and the maintenance of the lighting system in good physical condition is to be furnished by the Commissioners of Cuyahoga County.

DETAILS AT TOWERS: Conduit is not continuous through towers. Cables are to be placed in towers and lamp standards so as to leave a maximum of clear space for access to inside of standards.

TIME SWITCHES: The two circuits shall be controlled by a Sauter Electric Time Switch, with astronomic dial. The switch shall turn both circuits on at dusk and one circuit off at midnight, the other off at dawn.

SERVICE: The conduit is so arranged that the time switch and service connections may be located at either end of the bridge.

INSPECTION LIGHTS: Install 10 convenience outlets for inspection lights. One on each side of piers 1, 2, 3, 4, & 5 located conveniently below the marhale through the sidewalk. This may be provided by placing a three way switch in the secondary circuit of the transformers supplying the lamps which burn all night. All should be waterproof and for 20 amp. service.

WORKING PLANS: Item S.25.05.

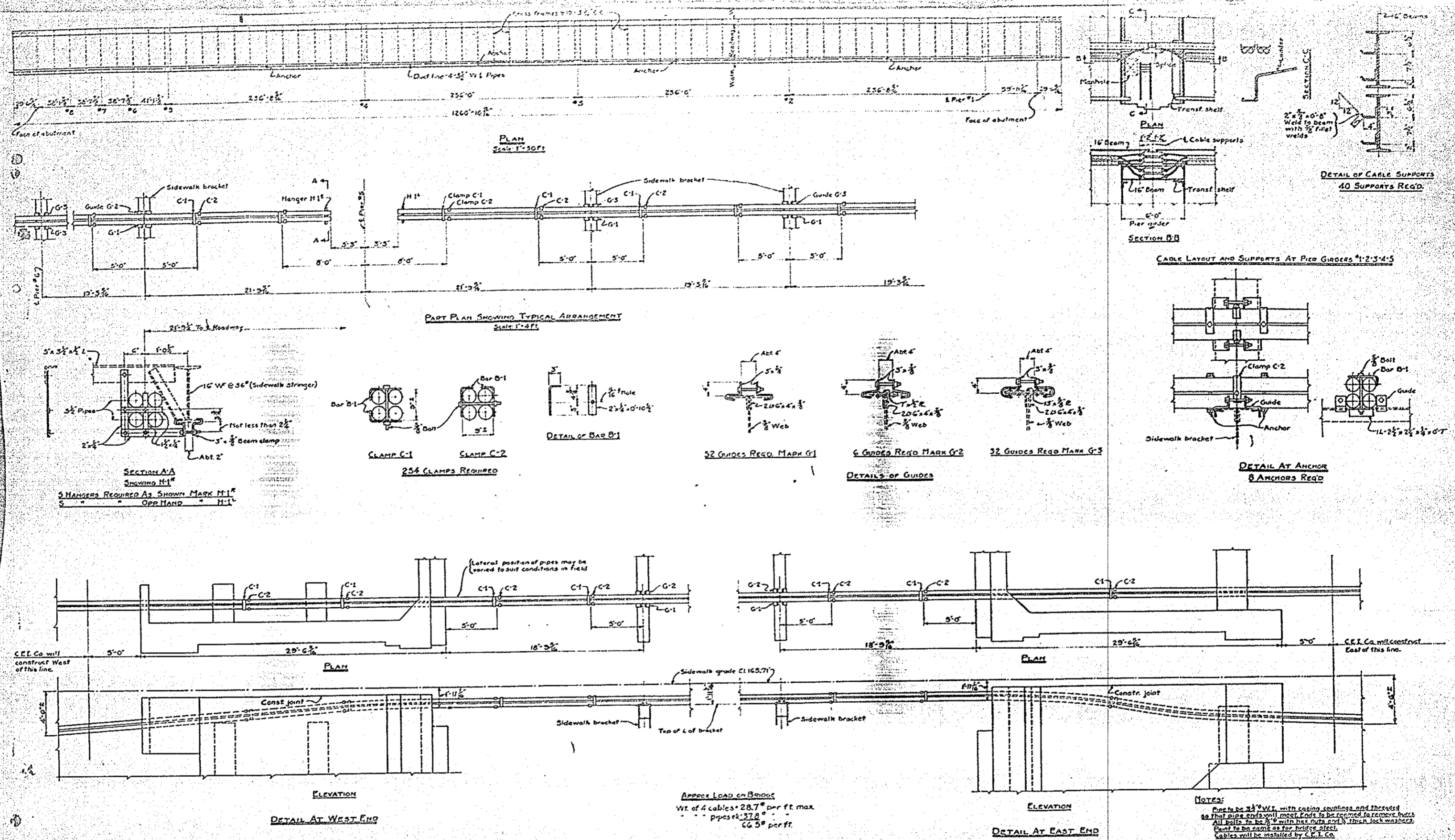
BRIDGE NO. CU-10-00

STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES

LIGHTING SYSTEM DETAILS

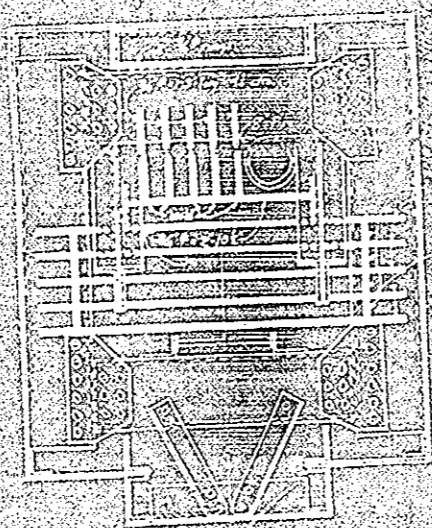
LORAIN ROAD VIADUCT
 OVER ROCKY RIVER

CUYAHOGA COUNTY	CLEVELAND	FAIRVIEW BR.	S.H. 694
SEC. 10	SEC. 10	SEC. 10	SEC. 10
DATE	DATE	DATE	DATE
BY	BY	BY	BY
CHECKED	CHECKED	CHECKED	CHECKED



RETURN TO OFFICE ALL PRINTS MADE PREVIOUS TO LATEST REVISION				REFERENCES		NAME		DATE		TITLE DUCT LINE FOR LORAIN ROAD BRIDGE OVER ROCKY RIVER PLANT UNDERGROUND THE CLEVELAND ELECTRIC ILLUMINATING CO CLEVELAND, OHIO
NO.	DATE	BY	REVISION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	
1				1	W. O. No.					SCALE 1/2"=1'-0" (1/4"=1'-0")
2				2	Job No.					
3				3	W. O. No.					No. 5513-162
4				4	Job No.					

[Redacted]

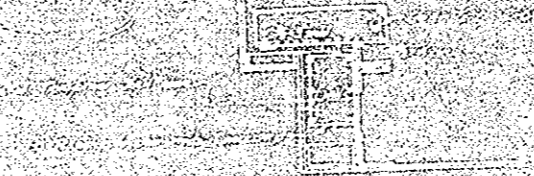


PLAN OF THE ROOM SHOWN IN SECTION 1A
AS SHOWN IN SECTION 1A
AS SHOWN IN SECTION 1A

[Redacted]



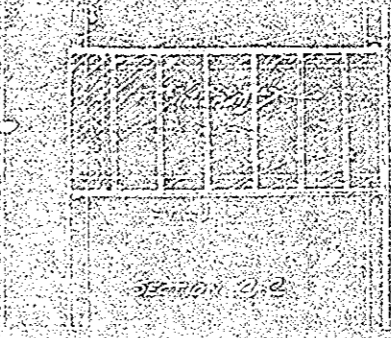
SECTION 1A



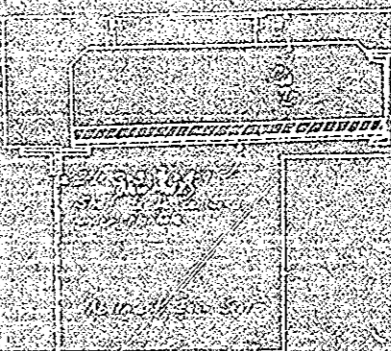
SECTION 1B



PLAN OF THE ROOM SHOWN IN SECTION 1B
AS SHOWN IN SECTION 1B
AS SHOWN IN SECTION 1B



SECTION 1C



SECTION 1D

PLAN OF THE ROOM SHOWN IN SECTION 1D
AS SHOWN IN SECTION 1D
AS SHOWN IN SECTION 1D

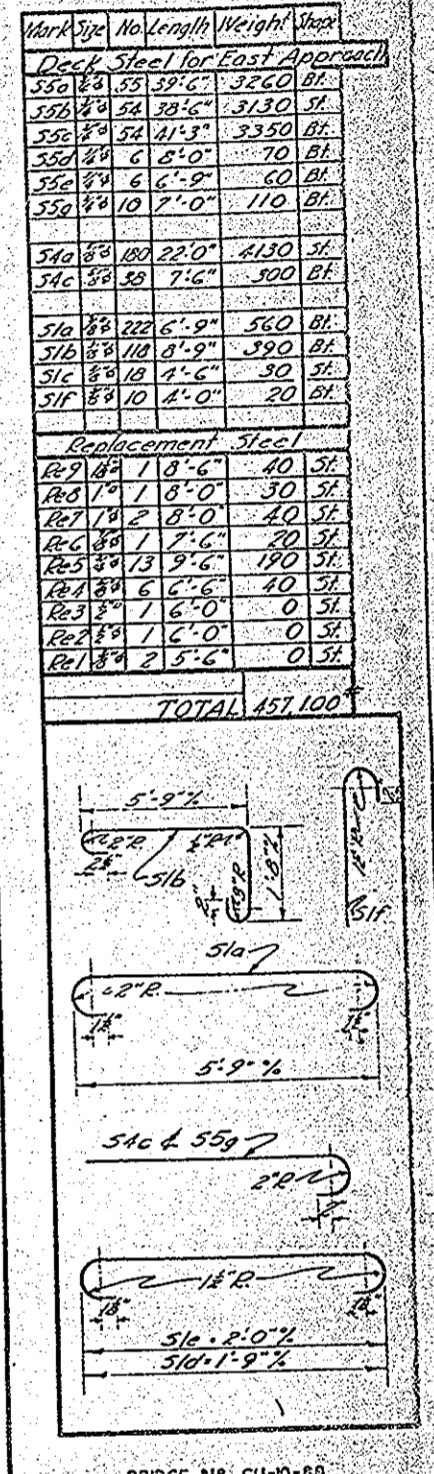
SECTION 1E
AS SHOWN IN SECTION 1E
AS SHOWN IN SECTION 1E

Mark	Size	No.	Length	Weight	Shape	Bending Diagrams
PIER BASES 2' x 2'						
P7a	1/4"	36	8'-0"	2180	SI	
P7b	1/4"	36	12'-0"	2810	SI	
P7c	1/4"	36	12'-0"	3210	SI	
P7d	1/4"	36	12'-0"	1780	SI	
P7e	1/4"	36	10'-6"	2690	SI	
PIER BASES 4' x 4'						
P8a	1/4"	102	7'-6"	1150	SI	
P8b	1/4"	68	16'-3"	1660	SI	
P8c	1/4"	150	15'-3"	3440	SI	
P8d	1/4"	24	12'-6"	450	SI	
P8e	1/4"	114	21'-0"	3660	SI	
P8f	1/4"	220	17'-6"	5790	SI	
P8g	1/4"	48	7'-0"	510	SI	
P8h	1/4"	96	20'-3"	2930	SI	
P8i	1/4"	102	35'-0"	5710	SI	
P8j	1/4"	100	13'-9"	2240	SI	
PIER BASES 6' x 6'						
P9a	1/4"	36	7'-0"	480	SI	
P9b	1/4"	16	37'-0"	2020	SI	
P9c	1/4"	60	8'-6"	1820	SI	
P9d	1/4"	32	17'-0"	1460	SI	
P9e	1/4"	32	12'-0"	1030	SI	
P9f	1/4"	32	15'-3"	1300	SI	
P9g	1/4"	8	18'-0"	390	SI	
P9h	1/4"	8	24'-0"	600	SI	
P9i	1/4"	32	10'-6"	900	SI	
P9j	1/4"	60	7'-6"	700	SI	
PIER BASES 8' x 8'						
P10a	1/4"	24	10'-0"	8500	SI	
P10b	1/4"	22	14'-3"	1350	SI	
P10c	1/4"	8	14'-9"	570	SI	
P10d	1/4"	8	14'-9"	570	SI	
P10e	1/4"	22	17'-3"	1630	SI	
P10f	1/4"	8	17'-9"	670	SI	
P10g	1/4"	8	17'-9"	670	SI	
P10h	1/4"	22	15'-3"	1440	SI	
P10i	1/4"	8	16'-0"	550	SI	
P10j	1/4"	8	15'-9"	540	SI	
PIER BASES 10' x 10'						
P11a	1/4"	128	8'-0"	2030	SI	
P11b	1/4"	24	6'-6"	320	SI	
P11c	1/4"	8	6'-6"	90	SI	
P11d	1/4"	16	7'-6"	280	SI	
P11e	1/4"	16	5'-9"	190	SI	
P11f	1/4"	8	6'-6"	210	SI	
P11g	1/4"	8	9'-5"	300	SI	
P11h	1/4"	8	11'-0"	180	SI	
P11i	1/4"	8	8'-0"	200	SI	
P11j	1/4"	8	8'-0"	200	SI	

Mark	Size	No.	Length	Weight	Shape	Bending Diagrams
F50	1/4"	12	11'-0"	200	SI	
F51	1/4"	2	10'-9"	30	SI	
F52	1/4"	2	10'-0"	30	SI	
F53	1/4"	2	2'-3"	30	SI	
F54	1/4"	2	8'-9"	30	SI	
F55	1/4"	2	7'-3"	20	SI	
F56	1/4"	2	7'-3"	20	SI	
F57	1/4"	12	13'-0"	230	SI	
F58	1/4"	2	12'-3"	30	SI	
F59	1/4"	2	10'-9"	30	SI	
West Abutment						
A30	1/4"	16	7'-9"	420	SI	
A31	1/4"	16	15'-0"	820	SI	
A32	1/4"	16	27'-6"	5510	SI	
A33	1/4"	4	41'-6"	670	SI	
A34	1/4"	2	9'-0"	50	SI	
A35	1/4"	20	26'-0"	780	SI	
A36	1/4"	72	6'-0"	690	SI	
A37	1/4"	40	12'-6"	750	SI	
A38	1/4"	24	18'-0"	650	SI	
A39	1/4"	24	6'-6"	430	SI	
East Abutment						
A40	1/4"	20	25'-6"	2350	SI	
A41	1/4"	12	21'-9"	820	SI	
A42	1/4"	12	25'-0"	1020	SI	
A43	1/4"	2	11'-3"	30	SI	
A44	1/4"	2	14'-9"	40	SI	
A45	1/4"	2	14'-6"	40	SI	
A46	1/4"	2	14'-0"	40	SI	
A47	1/4"	2	13'-9"	40	SI	
A48	1/4"	2	13'-6"	40	SI	
A49	1/4"	2	13'-0"	40	SI	

Mark	Size	No.	Length	Weight	Shape	Bending Diagrams	
A50	1/4"	2	12'-6"	40	SI		
A51	1/4"	2	11'-9"	40	SI		
A52	1/4"	2	10'-9"	30	SI		
A53	1/4"	2	10'-9"	30	SI		
A54	1/4"	2	10'-0"	30	SI		
A55	1/4"	2	10'-0"	30	SI		
A56	1/4"	2	10'-0"	30	SI		
A57	1/4"	2	10'-0"	30	SI		
A58	1/4"	2	10'-0"	30	SI		
A59	1/4"	2	10'-0"	30	SI		
Deck Steel for East Approach							
A60	1/4"	24	6'-3"	50	SI		
A61	1/4"	68	10'-6"	750	SI		
A62	1/4"	26	10'-3"	810	SI		
A63	1/4"	22	12'-0"	500	SI		
A64	1/4"	22	11'-0"	460	SI		
A65	1/4"	22	9'-6"	410	SI		
A66	1/4"	22	9'-6"	410	SI		
A67	1/4"	22	9'-6"	410	SI		
A68	1/4"	22	9'-6"	410	SI		
A69	1/4"	22	9'-6"	410	SI		
Deck Steel for Arch Spans							
A70	1/4"	32	24'-6"	710	SI		
A71	1/4"	40	9'-3"	310	SI		
A72	1/4"	32	10'-6"	880	SI		
A73	1/4"	8	25'-0"	170	SI		
A74	1/4"	112	7'-6"	320	SI		
A75	1/4"	112	6'-0"	250	SI		
A76	1/4"	16	27'-6"	170	SI		
Deck Steel for West Approach							
A77	1/4"	16	14'-0"	630	SI		
A78	1/4"	24	27'-0"	680	SI		
A79	1/4"	36	14'-0"	530	SI		
A80	1/4"	20	24'-0"	500	SI		
A81	1/4"	16	13'-6"	310	SI		
A82	1/4"	36	5'-6"	270	SI		
A83	1/4"	16	11'-0"	180	SI		
A84	1/4"	36	5'-6"	320	SI		
A85	1/4"	4	25'-0"	100	SI		
A86	1/4"	20	10'-6"	220	SI		
Deck Steel for West Approach							
A87	1/4"	16	14'-0"	630	SI		
A88	1/4"	24	27'-0"	680	SI		
A89	1/4"	36	14'-0"	530	SI		
A90	1/4"	20	24'-0"	500	SI		
A91	1/4"	16	13'-6"	310	SI		
A92	1/4"	36	5'-6"	270	SI		
A93	1/4"	16	11'-0"	180	SI		
A94	1/4"	36	5'-6"	320	SI		
A95	1/4"	4	25'-0"	100	SI		
A96	1/4"	20	10'-6"	220	SI		

Mark	Size	No.	Length	Weight	Shape	Bending Diagrams
A100	1/4"	20	25'-6"	2350	SI	
A101	1/4"	12	21'-9"	820	SI	
A102	1/4"	12	25'-0"	1020	SI	
A103	1/4"	2	11'-3"	30	SI	
A104	1/4"	2	14'-9"	40	SI	
A105	1/4"	2	14'-6"	40	SI	
A106	1/4"	2	14'-0"	40	SI	
A107	1/4"	2	13'-9"	40	SI	
A108	1/4"	2	13'-6"	40	SI	
A109	1/4"	2	13'-0"	40	SI	
Replacement Steel						
A110	1/4"	1	8'-6"	40	SI	
A111	1/4"	1	8'-0"	30	SI	
A112	1/4"	2	8'-0"	40	SI	
A113	1/4"	1	7'-6"	20	SI	
A114	1/4"	13	9'-6"	190	SI	
A115	1/4"	6	6'-6"	40	SI	
A116	1/4"	1	6'-0"	0	SI	
A117	1/4"	1	6'-0"	0	SI	
A118	1/4"	2	5'-6"	0	SI	
A119	1/4"	2	5'-6"	0	SI	
TOTAL 457,100						

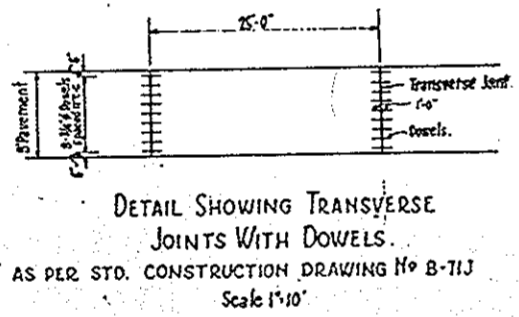
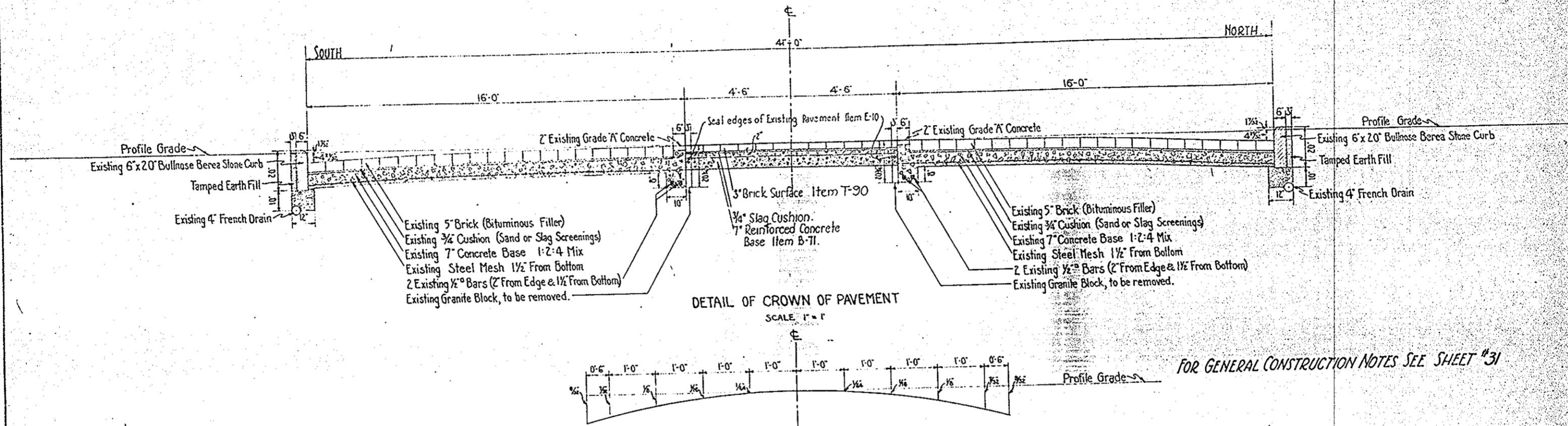


BRIDGE NO. CU-10-88
 STATE OF OHIO
 DEPARTMENT OF HIGHWAYS
 BUREAU OF BRIDGES
REINFORCING STEEL LIST
 LORAIN ROAD VIADUCT
 OVER ROCKY RIVER
 CUYAHOGA COUNTY CLEVELAND - FAIRVIEW BR. S.H. 694

TYPICAL SECTION
9" BRICK PAVEMENT.
 WITH TRANSVERSE JOINTS AND DOWELS
 AS PER STANDARD CONSTRUCTION DRAWING B-71-J
 ITEMS B-71 AND T-90
 Scale 1/2" = 1'-0"

Fed. Rd. Dist. No.	STATE	FED. AID PROJECT	FISCAL YEAR	30 57
10.	OHIO		1934	

CLEVELAND-OSBERLIN RD.
 S.H. 694 - SEC. CLEVELAND-FAIRVIEW BRIDGE
 CUYAHOGA COUNTY.



FOR GENERAL CONSTRUCTION NOTES SEE SHEET #31

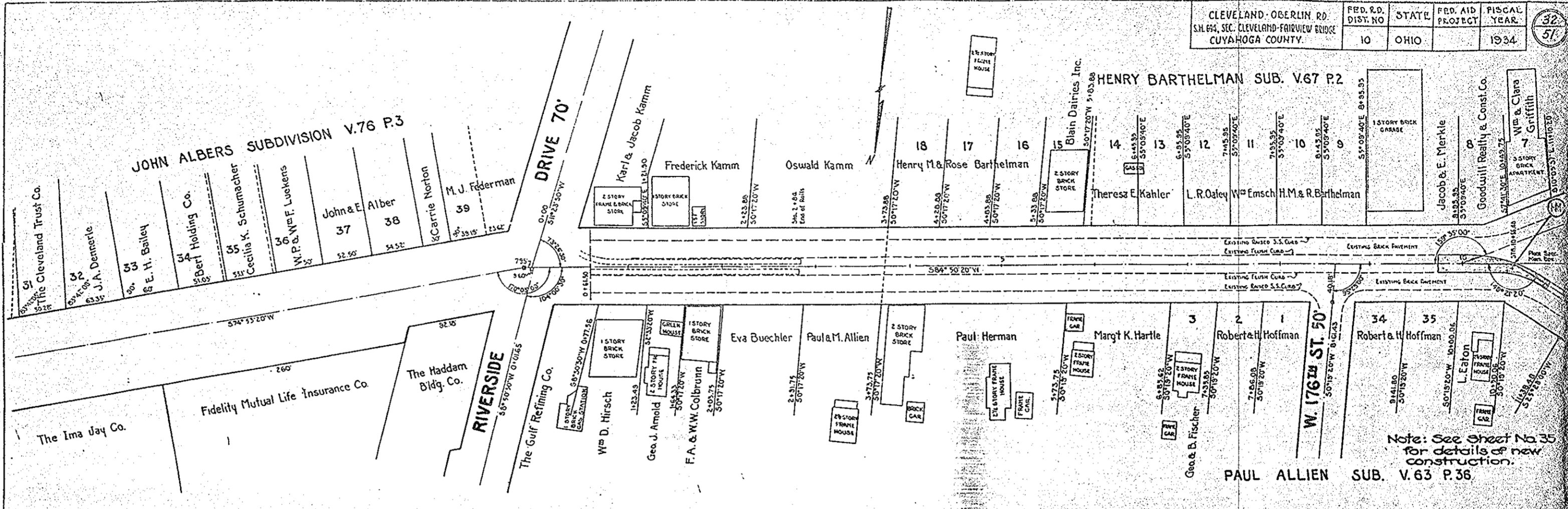
The above Section applies between Sta 11+00 and 19+00.

PLAN	DATE
REVISED	
BY	
CHECKED	
APPROVED	

PROFILE	DATE
REVISED	
BY	
CHECKED	
APPROVED	

APPROVED
 10-19-34

CLEVELAND-OSERLIN RD. SHEETS, SEC. CLEVELAND-FAIRVIEW BRIDGE CUYAHOGA COUNTY.	FED. R.D. DIST. NO 10	STATE OHIO	FED. AID PROJECT 1934.	FISCAL YEAR. 1934.	32 51
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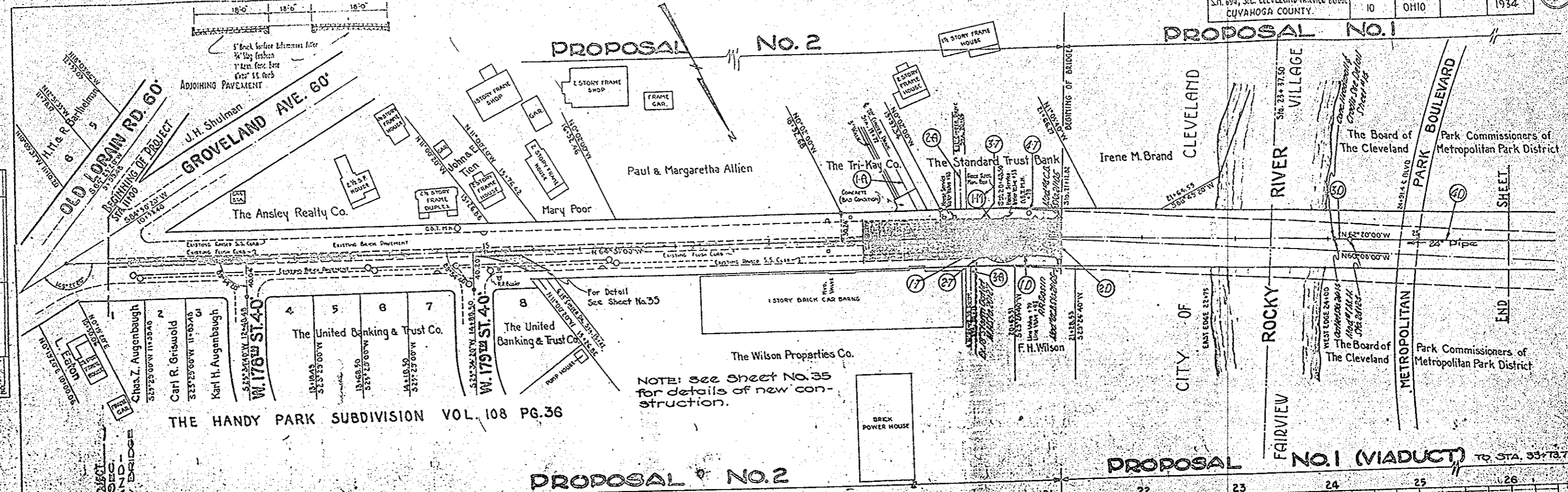
PLAN	DATE
PROFILE	DATE
SECTION	DATE
DETAIL	DATE
AS BUILT	DATE

PROFILE	DATE
SECTION	DATE
DETAIL	DATE
AS BUILT	DATE

	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	
190															190
180															180
170															170

R.M. 1 - Y Set W and door sill
entrance to Ford Sales Service
#17601 Lorain Rd. El: 175.83

SPECIAL MONUMENT BOX		
Item No.	Station	Number
1-M	10+55.68	1
Total		1



Station	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
100																
110																
120																
130																
140																
150																
160																
170																
180																
190																
200																
210																
220																
230																
240																
250																
260																

SPECIAL MONUMENT BOX

Item No.	Station	Number
1-M	20+08.50	1
Total		1

PRIVATE DRIVES

Item	Station	Side	Excavation Cu. Yds.	Concrete Cu. Yds.	6" Conc. Pavement Sq. Ft.
1-R	19+72	S	0	2.2	210
2-R	20+06	S	0	1.3	108
3-R	20+15	N	0	0.6	80
Total			0	4.1	398

2 1/2" SANDSTONE SIDEWALK

Station	Side	Area in Sq. Ft.
19+00 - 19+41	South	246
19+71 - 20+00	South	176
20+12 - 21+02.82	South	529
19+50 - 20+10	North	350
20+20 - 21+02.82	North	527
(See Sheet 33-25)	Total	1828

EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED OF

Station	Side	Sq. Yds.
19+00 to 20+15	S	111
20+20 to 21+02.82	N	103
Total (See Sheet 33-25)		214

STORM SEWER SUMMARY

Item	Station	Side	Length	Notes
1	19+00 to 19+41	South	41	12" Dia. Storm Sewer
2	19+71 to 20+00	South	29	12" Dia. Storm Sewer
3	20+12 to 21+02.82	South	90.82	12" Dia. Storm Sewer
4	19+50 to 20+10	North	60	12" Dia. Storm Sewer
5	20+20 to 21+02.82	North	82.82	12" Dia. Storm Sewer
Total			303.64	

Excavation

Excavation	240	Cu. Yds.
Embankment	0	
Emb. + 22%	0	
Waste	240	Cu. Yds.

Embankment

Embankment	585	Cu. Yds.
Emb. + 22%	59	
Waste	326	Cu. Yds.

B.M. #2 - 'X' on E. end of step of Alcox S.E. Cox Bridge. E.L. 165.84

B.M. #3 - 3 Nails in S. foot of 30' Ash 250' North of Sta. 24+50 E.L. 44.36

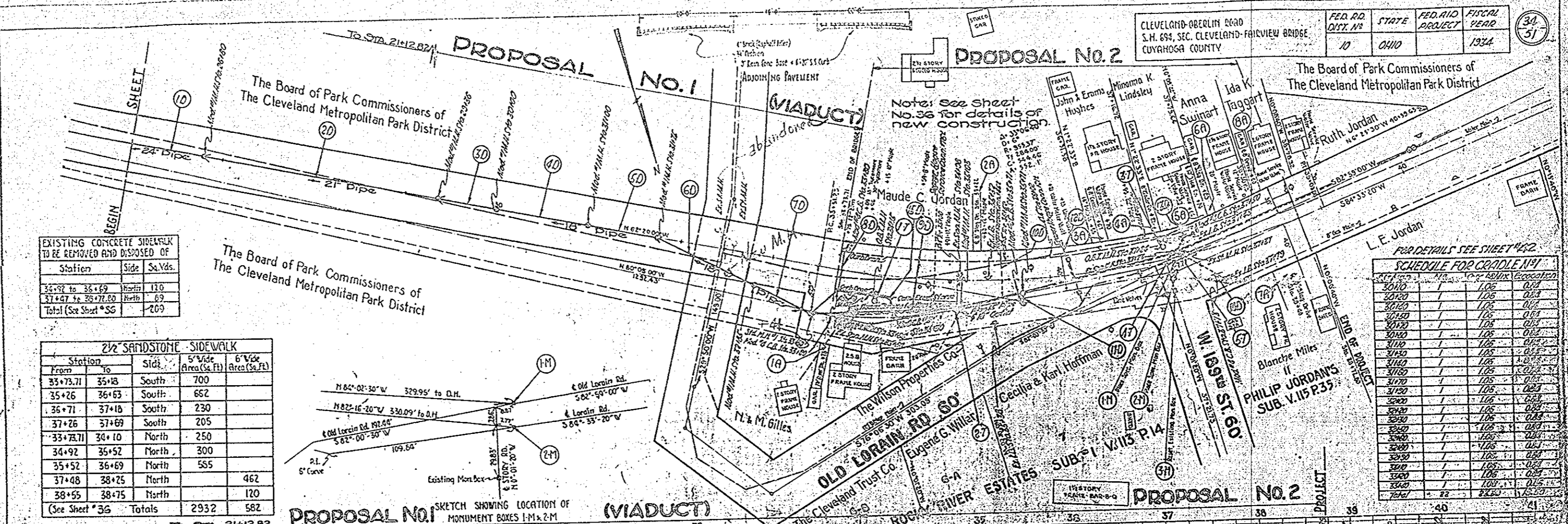
RESET CASTINGS

Item No.	Station	Side	Length	Notes
1	19+00	South	1	12" Dia. Cast Iron
2	19+71	South	1	12" Dia. Cast Iron
3	20+12	South	1	12" Dia. Cast Iron
4	19+50	North	1	12" Dia. Cast Iron
5	20+20	North	1	12" Dia. Cast Iron
Total			5	

HEADWALL & CRADLE

Station	Side	Length	Notes
19+00	South	1	Headwall
19+71	South	1	Headwall
20+12	South	1	Headwall
19+50	North	1	Headwall
20+20	North	1	Headwall
Total		5	

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1934



EXISTING CONCRETE SIDEWALK TO BE REMOVED AND DISPOSED OF

Station	Side	Sa. Yds.
35+09 to 36+69	North	110
37+47 to 38+72.80	North	69
Total (See Sheet 36)	SG	179

2 1/2" SANDSTONE SIDEWALK

Station	Side	5' Wide Area (Sq. Ft.)	6' Wide Area (Sq. Ft.)
35+73.71 to 35+18	South	700	
35+26 to 36+63	South	662	
36+71 to 37+10	South	230	
37+26 to 37+69	South	205	
33+73.71 to 34+10	North	250	
34+92 to 35+52	North	300	
35+52 to 36+69	North	555	
37+48 to 38+25	North	462	
38+55 to 38+75	North	120	
(See Sheet 36)	Totals	2932	582



FOR DETAILS SEE SHEET 462

SCHEDULE FOR CRADLE 1931

Station	Side	Width	Length	Area
35+09	North	10	100	1000
35+10	North	10	100	1000
35+11	North	10	100	1000
35+12	North	10	100	1000
35+13	North	10	100	1000
35+14	North	10	100	1000
35+15	North	10	100	1000
35+16	North	10	100	1000
35+17	North	10	100	1000
35+18	North	10	100	1000
35+19	North	10	100	1000
35+20	North	10	100	1000
35+21	North	10	100	1000
35+22	North	10	100	1000
35+23	North	10	100	1000
35+24	North	10	100	1000
35+25	North	10	100	1000
35+26	North	10	100	1000
35+27	North	10	100	1000
35+28	North	10	100	1000
35+29	North	10	100	1000
35+30	North	10	100	1000
35+31	North	10	100	1000
35+32	North	10	100	1000
35+33	North	10	100	1000
35+34	North	10	100	1000
35+35	North	10	100	1000
35+36	North	10	100	1000
35+37	North	10	100	1000
35+38	North	10	100	1000
35+39	North	10	100	1000
35+40	North	10	100	1000
35+41	North	10	100	1000
35+42	North	10	100	1000
35+43	North	10	100	1000
35+44	North	10	100	1000
35+45	North	10	100	1000
35+46	North	10	100	1000
35+47	North	10	100	1000
35+48	North	10	100	1000
35+49	North	10	100	1000
35+50	North	10	100	1000
35+51	North	10	100	1000
35+52	North	10	100	1000
35+53	North	10	100	1000
35+54	North	10	100	1000
35+55	North	10	100	1000
35+56	North	10	100	1000
35+57	North	10	100	1000
35+58	North	10	100	1000
35+59	North	10	100	1000
35+60	North	10	100	1000
35+61	North	10	100	1000
35+62	North	10	100	1000
35+63	North	10	100	1000
35+64	North	10	100	1000
35+65	North	10	100	1000
35+66	North	10	100	1000
35+67	North	10	100	1000
35+68	North	10	100	1000
35+69	North	10	100	1000
35+70	North	10	100	1000
35+71	North	10	100	1000
35+72	North	10	100	1000
35+73	North	10	100	1000
35+74	North	10	100	1000
35+75	North	10	100	1000
35+76	North	10	100	1000
35+77	North	10	100	1000
35+78	North	10	100	1000
35+79	North	10	100	1000
35+80	North	10	100	1000
35+81	North	10	100	1000
35+82	North	10	100	1000
35+83	North	10	100	1000
35+84	North	10	100	1000
35+85	North	10	100	1000
35+86	North	10	100	1000
35+87	North	10	100	1000
35+88	North	10	100	1000
35+89	North	10	100	1000
35+90	North	10	100	1000
35+91	North	10	100	1000
35+92	North	10	100	1000
35+93	North	10	100	1000
35+94	North	10	100	1000
35+95	North	10	100	1000
35+96	North	10	100	1000
35+97	North	10	100	1000
35+98	North	10	100	1000
35+99	North	10	100	1000
36+00	North	10	100	1000

Station	Side	Sa. Yds.	Notes
110			B.M. 4 - 3 Nails in Roof of 20' Twin Oak 60' S. of Sta. 30+89 El. = 51.47'
100			B.M. 5 - Nail in T.R. # 30099 100' South of Sta. 32+45 El. = 95.72'
90			B.M. 6 - Nail in T.R. # 2963 100' N. of Bridge along Old Lorain Rd. Under W. End of Bridge El. = 150.36'
80			B.M. 7 - Nail in Above Sect. West end of Bridge, N. Side of Road El. = 169.90'

TABLES TO BE REMOVED			WATER CONNECTIONS				SPEC. MONUMENT BOXES			
Station	Number	Size	Location	Side	Notes	Item No.	Station	Number	Notes	
35+75	1	18"	36+21	Left		1-M	See Sketch	1		
34+15	1	10"	36+70	Left		2-M	See Sketch	1		
35+59	1	10"	37+66	Left		3-M	37+2175	1		
35+30	1	12"	Totals			Total		2		
35+55	1	20"								
35+95	1	20"								
Total	6	6'-10"								

PRIVATE DRIVES				EXISTING BRICK PAVEMENT TO BE REMOVED AND DISPOSED OF			
Station	Side	Width	Length	Station	Side	Sa. Yds.	Notes
35+75	Left	10'	100'	34+92 to 35+69	North	170	
35+76	Left	10'	100'	37+26 to 37+69	North	60	
35+77	Left	10'	100'	37+48 to 38+25	North	60	
35+78	Left	10'	100'	Total (See Sheet 36)		210	
35+79	Left	10'	100'				
35+80	Left	10'	100'				
35+81	Left	10'	100'				
35+82	Left	10'	100'				
35+83	Left	10'	100'				
35+84	Left	10'	100'				
35+85	Left	10'	100'				
35+86	Left	10'	100'				
35+87	Left	10'	100'				
35+88	Left	10'	100'				
35+89	Left	10'	100'				
35+90	Left	10'	100'				
35+91	Left	10'	100'				
35+92	Left	10'	100'				
35+93	Left	10'	100'				
35+94	Left	10'	100'				
35+95	Left	10'	100'				
35+96	Left	10'	100'				
35+97	Left	10'	100'				
35+98	Left	10'	100'				
35+99	Left	10'	100'				
36+00	Left	10'	100'				

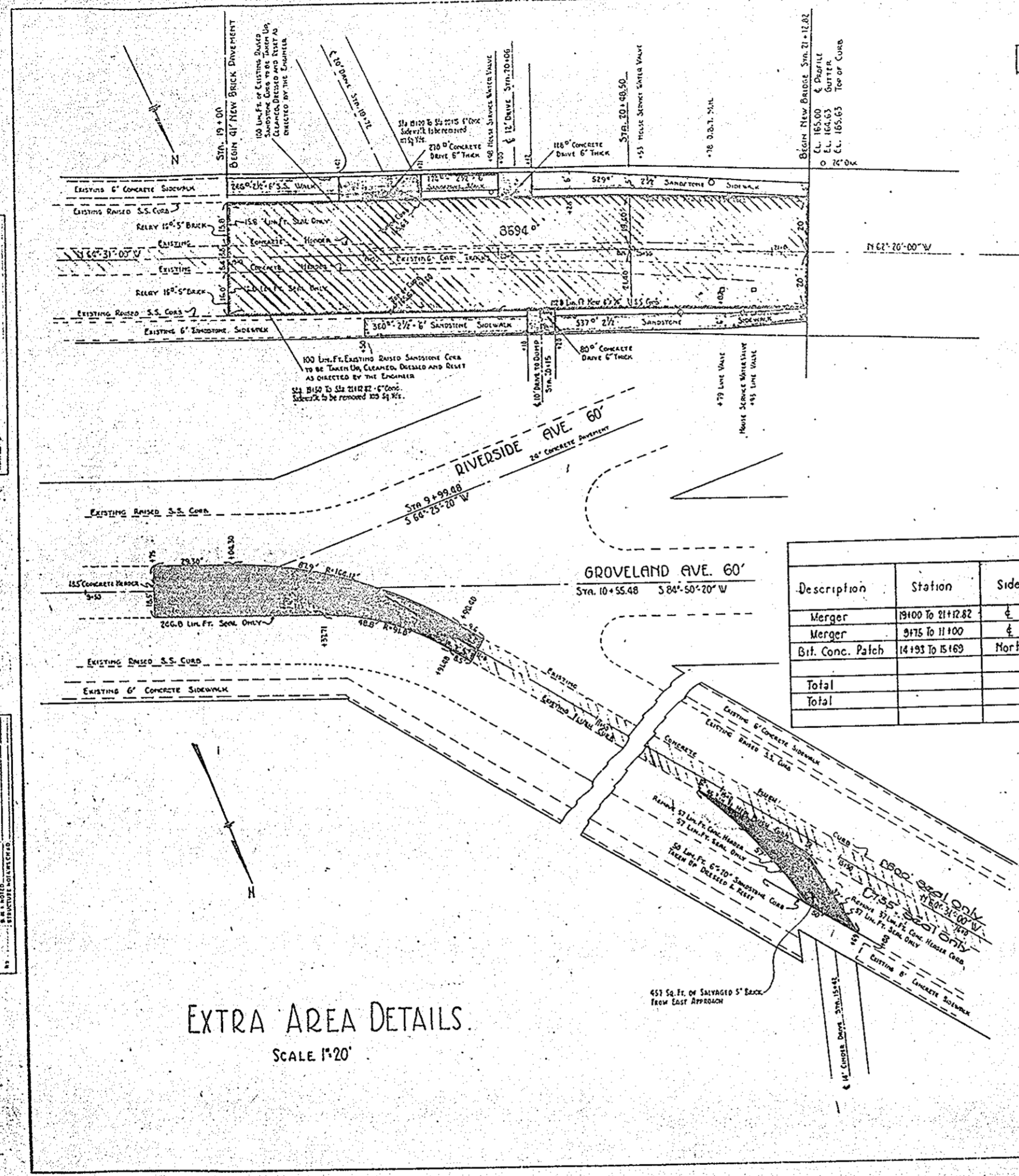
FED. RD. DIST. NO.	STATE	FED. AID PROJECT NO.	FISCAL YEAR
10	OHIO		1934

CLEVELAND-OSBERLIN RD.
S.H. NO. 694 - SEC. CLEVELAND-FAIRVIEW CROSS
CUYAHOGA COUNTY.

DETAIL OF EAST APPROACH.

STATION 19+00 TO STATION 21+12.82

SCALE 1"=20'



Description	Station	Side	Area in Sq. Ft.	Average Depth	Excavation Cu. Yds.
Merger	19+00 - 21+12.82	E	8694		See Cross Sections
Merger	9+75 - 11+00	E	1820	1.5	101
Bit Concrete Patch	14+93 - 15+69	North	432	1.5	24
TOTAL					125

Description	Station	Side	Pavement Width	6" x 6" Sandstone Curb Lin. Ft.	Sandstone curb cleaned, dressed & reset Lin. Ft.	6"x3 1/2" Conc. Header or Trim Curb Lin. Ft.	Conc. Header Curb to Be Removed Lin. Ft.	Old Curbs to Be Removed Lin. Ft.	1 1/2" Mort. E-10 Seal Only Lin. Ft.	1" Concrete Base Sq. Ft.	3" Brick Surface Sq. Ft.	6" Brick to Be Relaid Sq. Ft.
Merger	19+00 To 21+12.82	E	4' To 40'	2256	200			163	31.8	8694	8694	32
Merger	9+75 To 11+00	E	18.5' To 20'			18.5			246.8	1820	1811	
Bit. Conc. Patch	14+93 To 15+69	North	16'		50	450	94		94.0	432		451
Total				2256	250	635	94	163	372.6	10,946	10,905	483
Total										1216.2 Sq. Yds.	1167.2 Sq. Yds.	54.3 Sq. Yds.

EXTRA AREA DETAILS

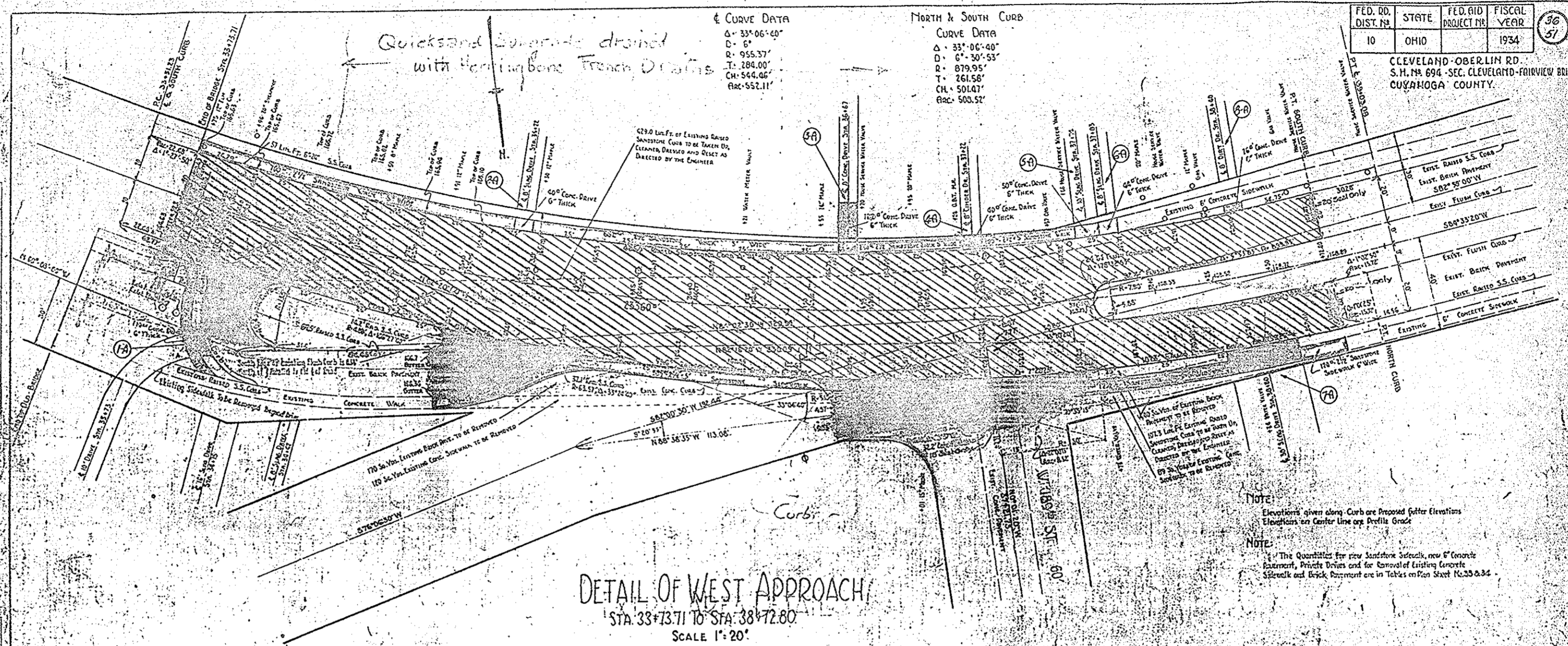
SCALE 1"=20'

NOTE:
The Quantities for New Sandstone Sidewalk and 6" Concrete Pavement for Private Drives are in Tables on Plan Sheet No. 33 & 34

FED. RD. DIST. NO.	STATE	FED. AID PROJECT NO.	FISCAL YEAR
10	OHIO		1934

CLEVELAND-OBERLIN RD.
S.H. No. 694 - SEC. CLEVELAND-FAIRVIEW BRIDGE
CUYAHOGA COUNTY.

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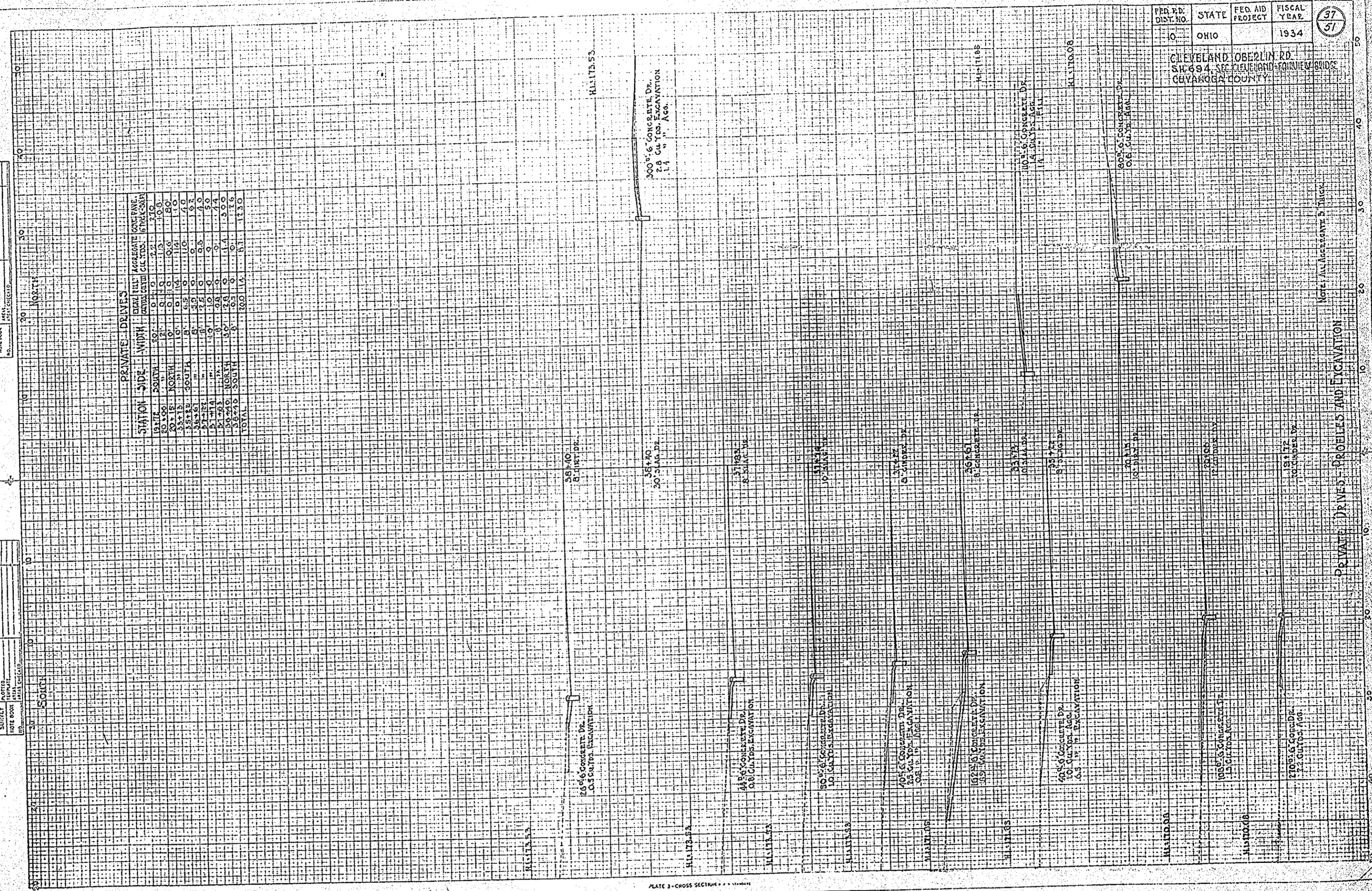
DETAIL OF WEST APPROACH
STA. 33+73.71 TO STA. 38+72.80
SCALE 1" = 20'

NAME OF STREET	STATION	WIDTH	PAVEMENT WIDTH	RETURN RADIUS	STREET INTERSECTIONS AND MERGERS													
					6"x6" RADIAL SANDSTONE CURB LIN. FT.	6"x8" SANDSTONE CURB LIN. FT.	SANDSTONE CURB CLEARED DRESSED PEST LIN. FT.	6"x8" RADIAL CONC. FLOOR CURB LIN. FT.	6"x8" CONC. FLOOR OR INSIDE CURB LIN. FT.	ITEM E-10 SEAL ONLY LIN. FT.	7" CONCRETE BASE SQ. FT.	3" BRICK SURFACE SQ. FT.	6"x8" SANDSTONE CURB LIN. FT.	6"x8" RADIAL SANDSTONE CURB LIN. FT.				
LORAIN ROAD	33+73.71 - 38+72.80	60'-60'	40'-58'															
W. 189th ST.	37+21.73	60'	18'	51.614.30	61.7	43.0		24.6	186.8	40	23360	29254.0						
WEST SIDE OF BRIDGE	33+83 - 35+60		16'-20'	188,120.6357	94.9					20	1020	1020.0						
				242.69' 18.5'	94.2	67.5				30	340	740.0						33.6
				15' x 20'														
TOTAL					251.8	274.1	536.3	24.6	233.0	108	27012	26882.9	60.8	33.6				

EXTRA EXCAVATION ON ACCOUNT OF RETURNS AND MERGERS					
NAME OF STREET	STATION	SIDE	AREA IN SQ. FT.	AVERAGE DEPTH	EXCAVATION Cu. Yds.
LORAIN ROAD	33+73.71 - 38+72.80		23360		See Cross Sections
W. 189th ST.	37+21.73	NORTH	1892	1.5	105
WEST SIDE OF BRIDGE	33+83 - 35+60	NORTH	1760	1.5	98
TOTAL					203

DATE	
BY	
CHECKED	
APPROVED	

PROJECT	
NO.	
DATE	
BY	
CHECKED	
APPROVED	



STATION	SIDE	PRIVATE DRAINS		TOTAL	AGGREGATE CONC. PAVE. (SP. YDS.)
		WIDTH	DEPTH		
0+00	SOUTH	10'	12"	10.0	0.0
0+10	SOUTH	10'	12"	10.0	0.0
0+20	SOUTH	10'	12"	10.0	0.0
0+30	SOUTH	10'	12"	10.0	0.0
0+40	SOUTH	10'	12"	10.0	0.0
0+50	SOUTH	10'	12"	10.0	0.0
0+60	SOUTH	10'	12"	10.0	0.0
0+70	SOUTH	10'	12"	10.0	0.0
0+80	SOUTH	10'	12"	10.0	0.0
0+90	SOUTH	10'	12"	10.0	0.0
0+100	SOUTH	10'	12"	10.0	0.0
TOTAL				100.0	0.0

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1934

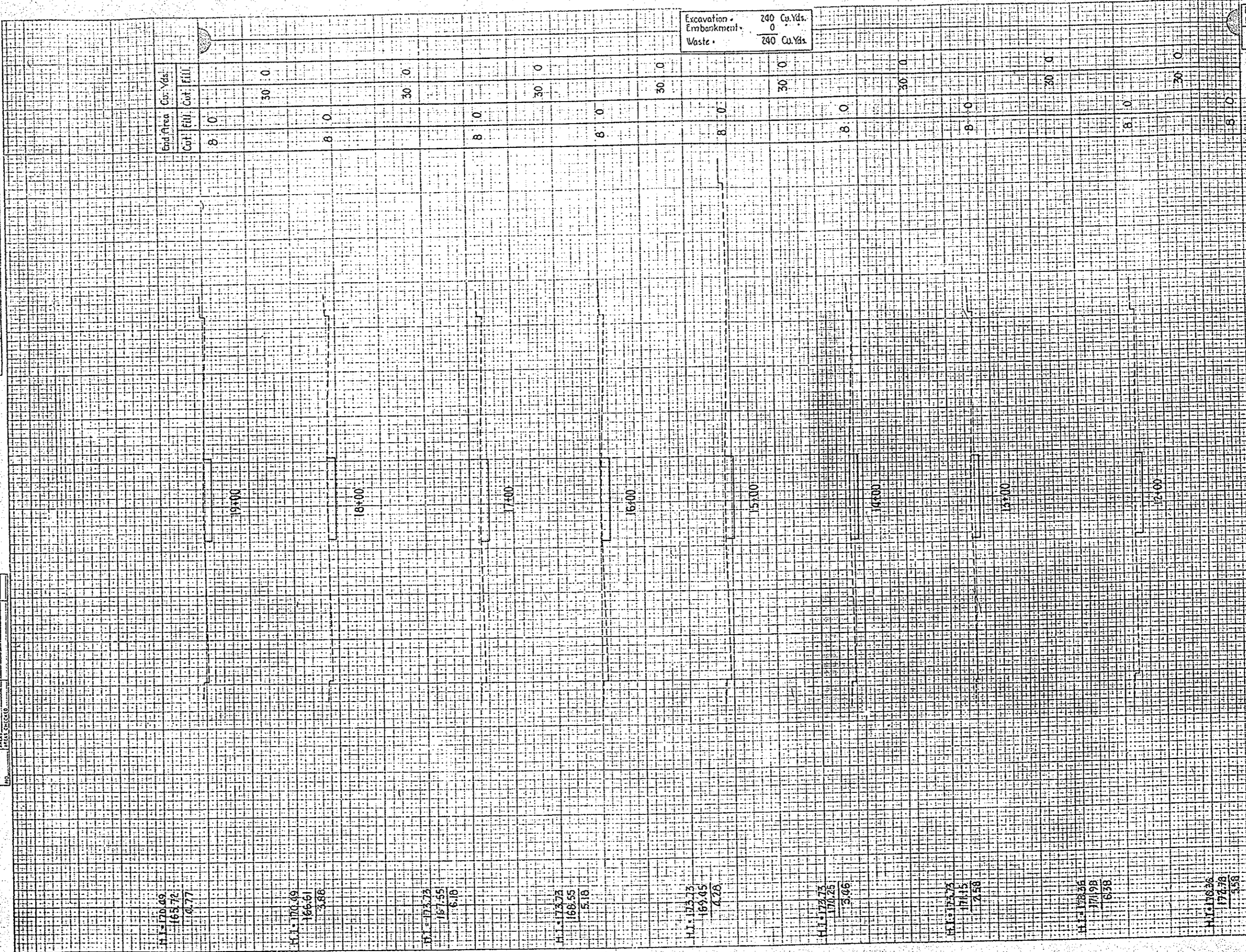
CLEVELAND OBERLIN RD.
 SH. 694, SEC. CLEVELAND-FARMVIEW BRIDGE
 CUYAHOGA COUNTY

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PLATE 3 - CROSS SECTION

COUNTY OF CUYAHOGA
 ENGINEER
 JOHN J. ...
 DATE ...

COUNTY OF CUYAHOGA
 SURVEYOR
 JOHN J. ...
 DATE ...

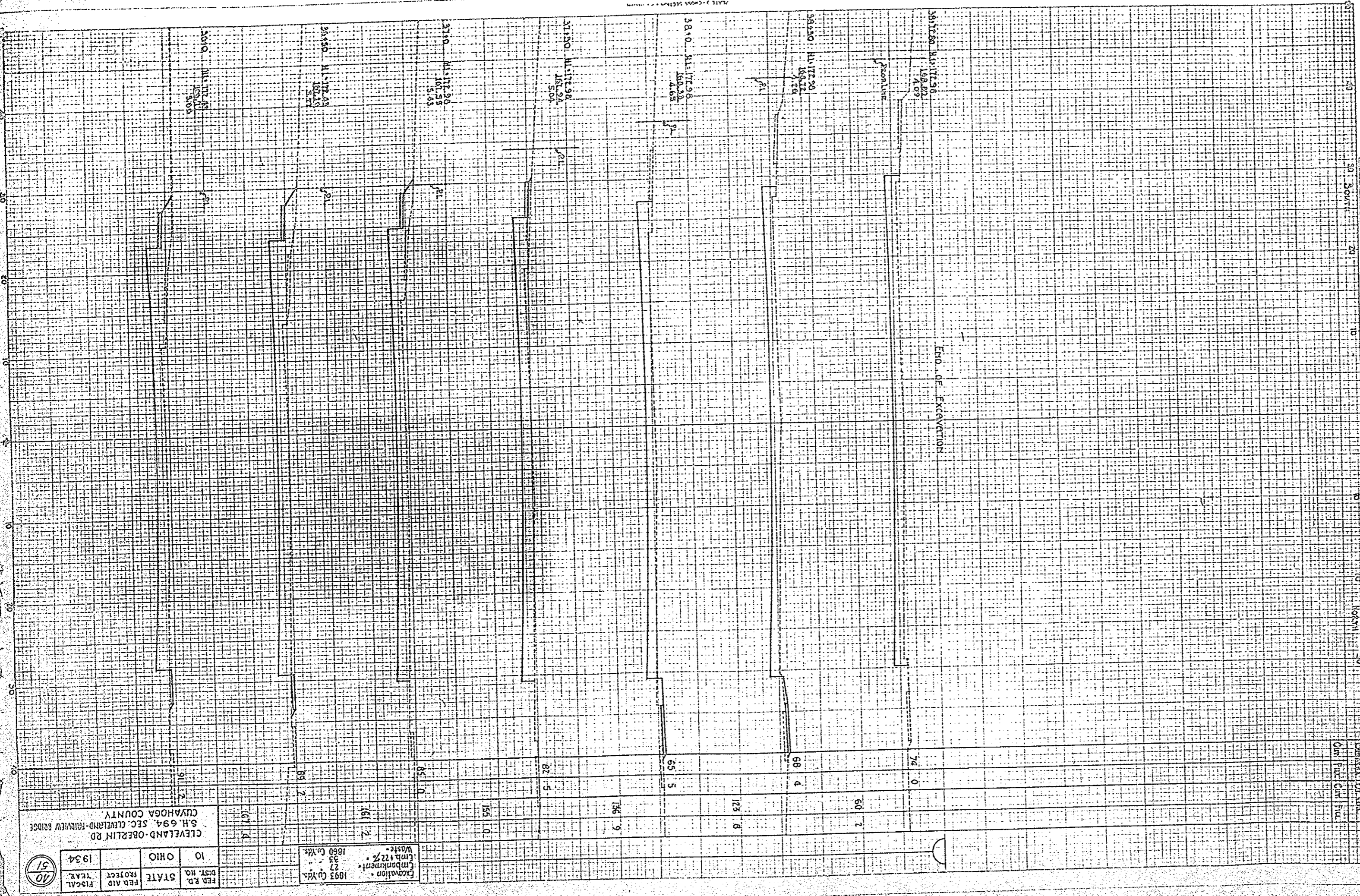


FED. RD. DIST. NO.	STATE	FED. AID PROJECT NO.	FISCAL YEAR
10	OHIO		1934

CLEVELAND-OBERLIN RD.
 S.H. NO. 694, SEC. CLEVELAND-FAIRVIEW,
 CUYAHOGA COUNTY.

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PLATE 2 - CROSS SECTION 4 - ...



General	Sheet No.	1
Project	1000	
Scale	1" = 100'	
Date	1934	

Drawn	Checked	Approved

Excavation	1093 Cu Yds
Embankment	27
Earth	122 1/2
Waste	1860 Cu Yds

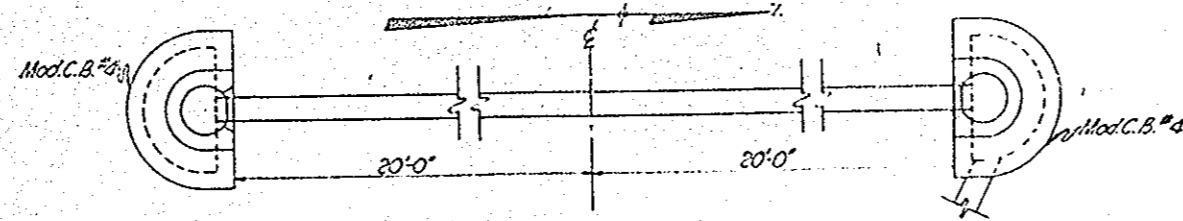
Excavation • 1093 Cu Yds
 Embankment • 27
 Earth • 122 1/2
 Waste • 1860 Cu Yds

FED. RD. PROJECT	STATE	OHIO	1934
FISCAL YEAR	PROJECT	STATE	YEAR

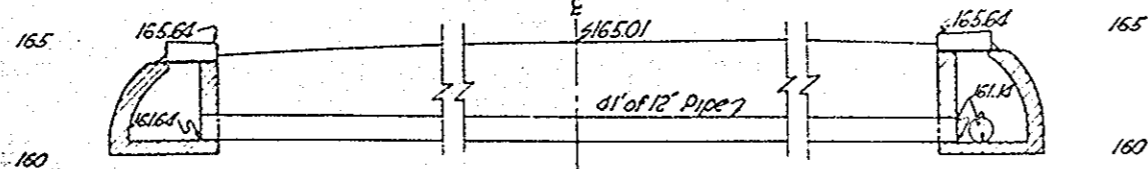
CLEVELAND - OBERLIN RD.
 S.H. 694, S.E.C. CLEVELAND - FAIRVIEW BRIDGE
 CUYAHOGA COUNTY



STATION 21+05
Drainage Structure 2 D of Sheet # 33



PLAN
Scale 1/4" = 1'-0"



SECTION ON E OF COLOERT

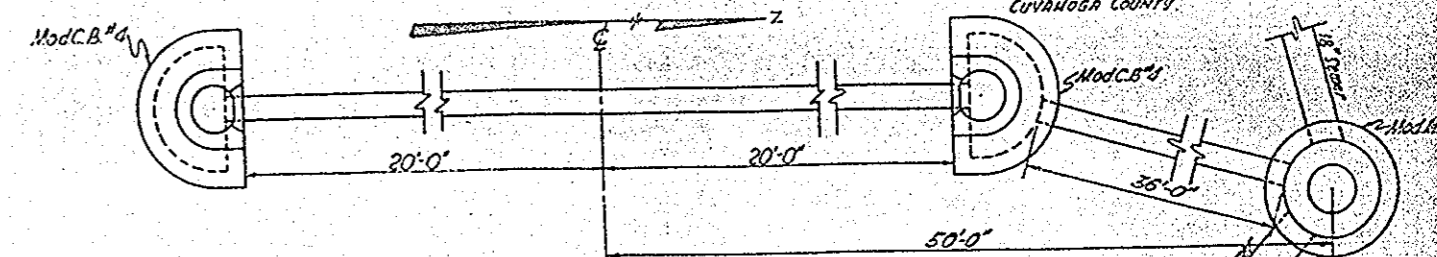
COLOERT DATA
Type - Special Pipe Colocert
Size - 12" x 12"
Work Required - Build Mod.C.B.#4 and connect to Mod.C.B.#4 with 41' of pipe.

ESTIMATED QUANTITIES
Excavation 15 Cu Yds.
12" Pipe 41 Lin. Ft.
Mod.C.B.#4 2

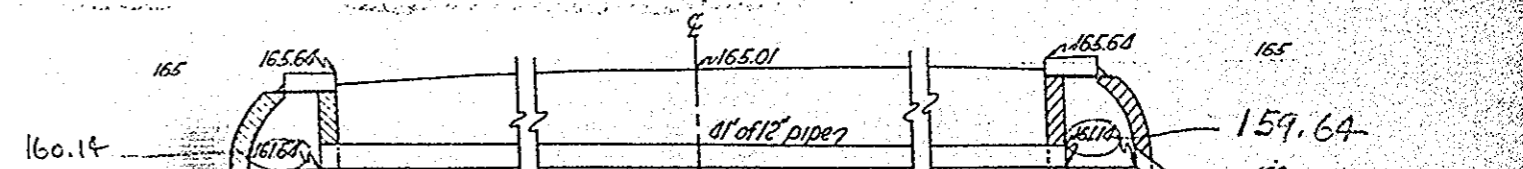
STATION 33+80
DRAINAGE STRUCTURE 8 D OF SHEET # 34

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1934

CLEVELAND-OBARUM RD
S.H. 634, SEC. CLEVELAND-FORBES BRIDGE
CUYAHOGA COUNTY.



PLAN
Scale 1/4" = 1'-0"

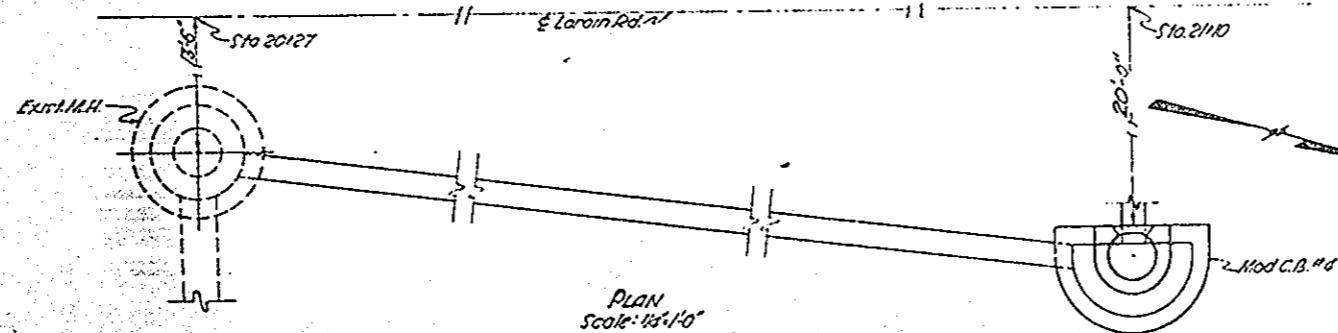


SECTION ON E OF COLOERT

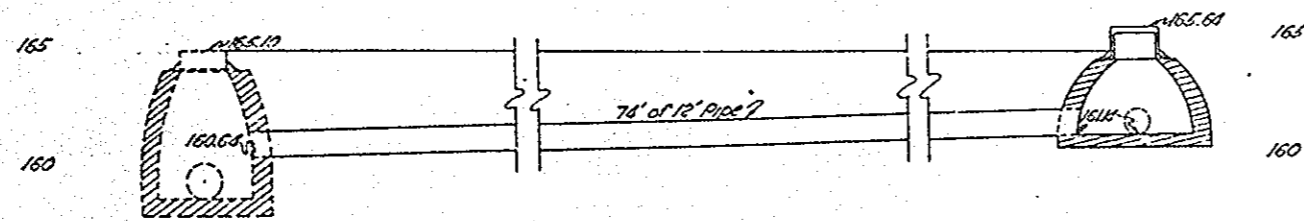
COLOERT DATA
Type - Special Pipe Colocert
Size - 12" x 12"
Work Required - Build Mod.C.B.#4 and connect to Mod.C.B.#4 with 41' of pipe. Connect Mod.C.B.#4 to Mod.M.#4 with 40' of 12" pipe.

ESTIMATED QUANTITIES
Excavation 15 Cu Yds.
12" Pipe 41 Lin. Ft.
Mod.C.B.#4 2

STATION 21+05
Drainage Structure 1 D of Sheet # 33



PLAN
Scale 1/4" = 1'-0"

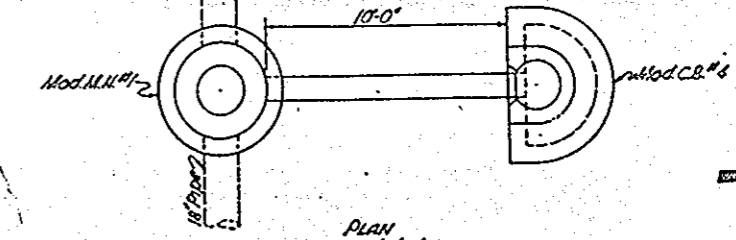


SECTION ON E OF COLOERT

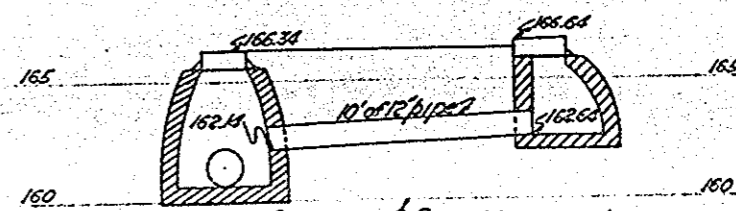
COLOERT DATA
Type - Special Pipe Colocert
Size - 12" x 12"
Work Required - Connect Mod.C.B.#4 to Exst. M.H. with 74' of 12" pipe.

ESTIMATED QUANTITIES
Excavation 30 cu yds.
12" Pipe 74 Lin. Ft.

STATION 35+77
Drainage Structure 11 D of Sheet # 34



PLAN
Scale 1/4" = 1'-0"



SECTION ON E OF COLOERT

COLOERT DATA
Type - Special Pipe Colocert
Size - 12" x 12"
Work Required - Build Mod.C.B.#4 and connect to Mod.M.#4 with 10' of 12" pipe.

ESTIMATED QUANTITIES
Excavation 4 Cu Yds.
12" Pipe 10 Lin. Ft.
Mod.C.B.#4 1

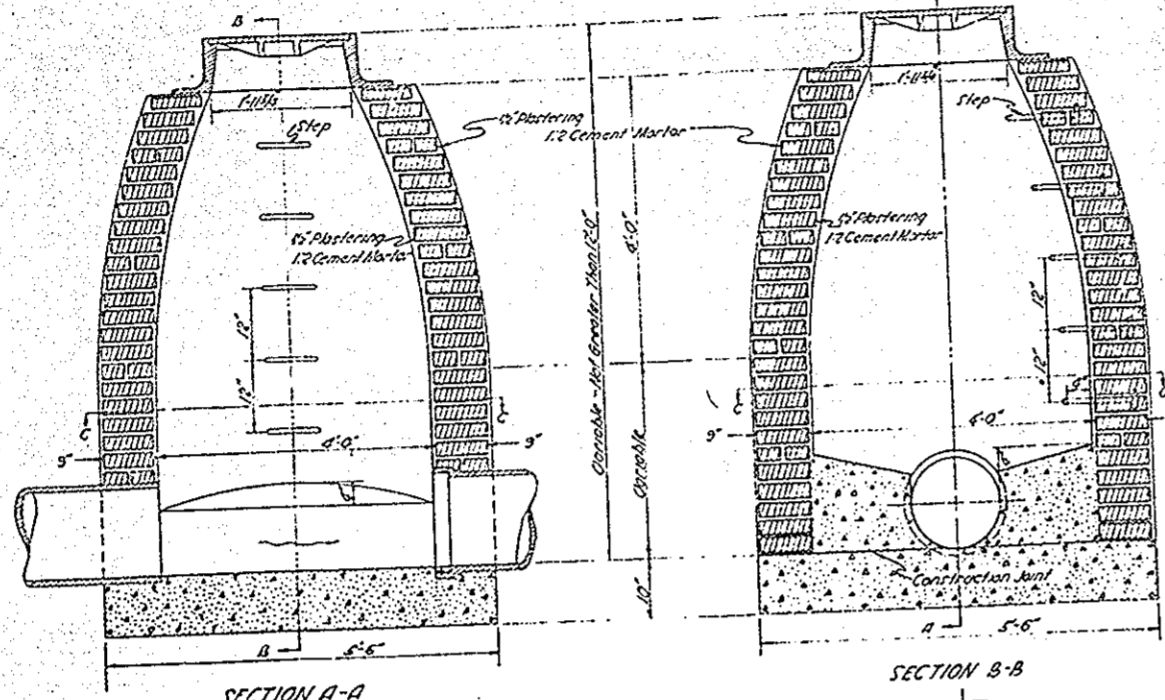
STATE OF OHIO DEPARTMENT OF HIGHWAYS			
ROADWAY PIPES COLOERT			
Cuyahoga County	S.H. NO. 634		
APPROVED	DESIGNED	CHECKED	DRAWN
N.M.C.	N.M.C.	N.M.C.	N.M.C.

Dist.	State	Fed. Aid Project	Fiscal Year
10	OHIO		1934

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CLEVELAND-OBERLIN RD.
S.H. 694, SEC. CLEVELAND-FAIRVIEW BRIDGE
CUVAHOGA COUNTY

STANDARD No. 1 MANHOLE MODIFIED



NOTES

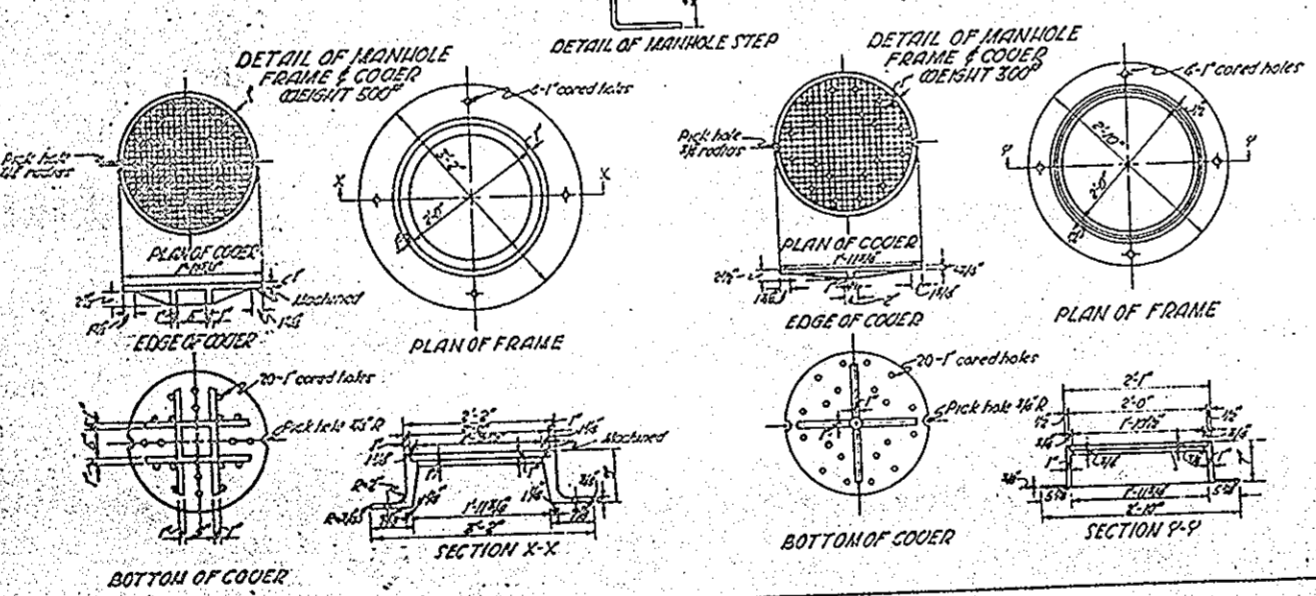
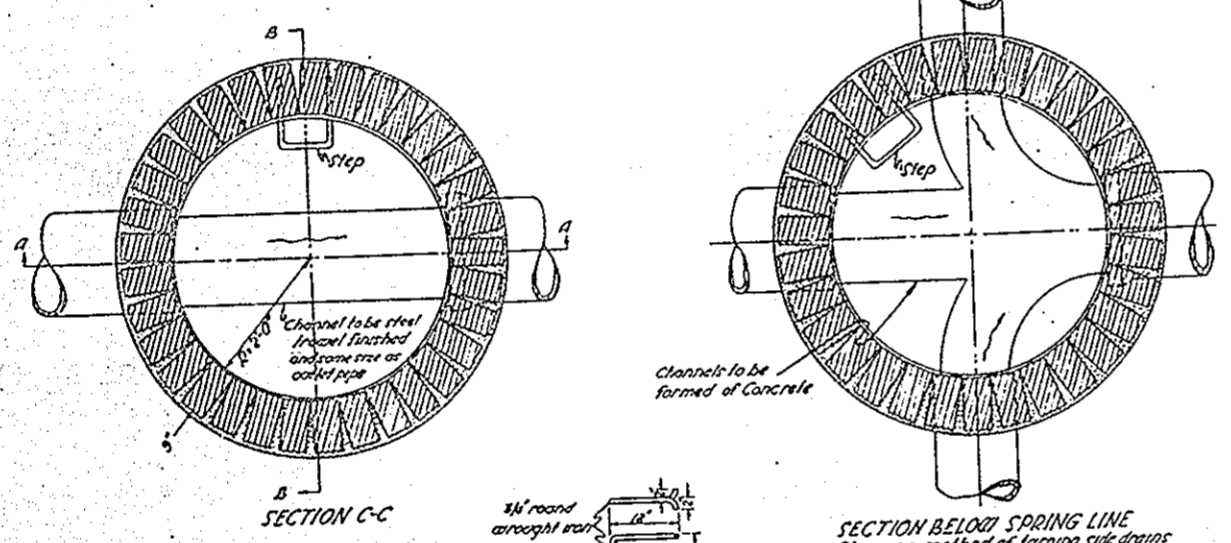
BEARING AREAS—Bearing areas of frame and cover shall be machined to provide firm and even rest for any portion of the cover.

SETTING OF CASTINGS—The base of the frame shall be set in a full bed of Portland cement mortar and so adjusted to conform to the finished pavement grade.

CASTING—The heavy frame and cover shall be cast where the manhole is placed within the limits of the pavement. The light frame and cover may be cast elsewhere the manhole is placed outside the limits of the pavement. All castings to be in accordance with Section 11-74 of the Material Details. Manhole castings may be made in accordance with details shown hereon or may be of similar design but of equal weight.

STEPS—Steps shall be of good quality wrought iron in accordance with Section 11-76 of the Material Details. Details free from cracks and painted with two coats of red lead.

MANHOLES—Manholes shall be built of brick laid in Portland cement mortar, every sixth course to be a stretcher course. Outer tables and bases of manholes shall be constructed of concrete, 1 1/2" Mix.



STANDARD No. 2 CATCHBASIN MODIFIED

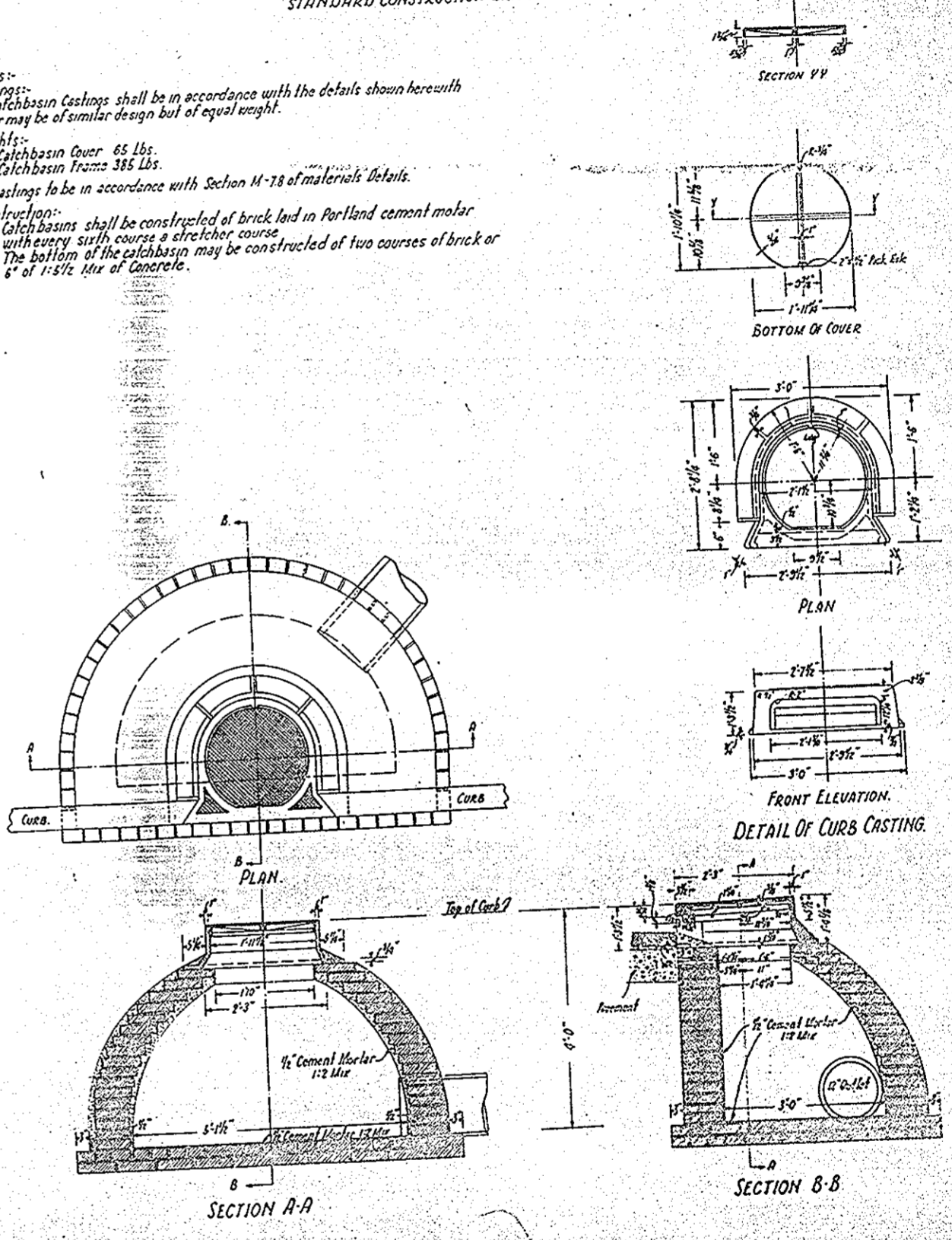
STANDARD CONSTRUCTION DRAWING T-8, C.B. No. 1

Notes—Castings: Catchbasin Castings shall be in accordance with the details shown hereon or may be of similar design but of equal weight.

Weights—Catchbasin Cover 65 Lbs. Catchbasin Frame 385 Lbs.

All castings to be in accordance with Section 11-78 of materials details.

Construction—Catchbasins shall be constructed of brick laid in Portland cement mortar with every sixth course a stretcher course. The bottom of the catchbasin may be constructed of two courses of brick or 4" of 1-1/2" Mix of Concrete.



GENERAL SUMMARY.

Fed. Rd. Dist.	State	Fed. Aid Project	Fiscal Year
10	OHIO		1934

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CLEVELAND-OBERLIN RD.
S.H. 694, SEC. CLEVELAND-FAIRVIEW 600'±
CUYAHOGA COUNTY

Items	Quantity	Unit
Roadway		
E-1	2866	Cu. Yds.
E-1	40	Cu. Yds.
E-2	1636	Lin. Ft.
E-5	210	Sq. Yds.
E-8	435	Sq. Yds.
E-8	1	Sq. Yds.
E-9	6	Lin. Ft.
E-10	2036	Lin. Ft.
I-2	58	Lin. Ft.
I-2	58	Lin. Ft.
I-2	157	Lin. Ft.
I-2	317	Lin. Ft.
I-2	260	Lin. Ft.
I-2	360	Lin. Ft.
I-2	1636	Lin. Ft.
I-4	2	Lin. Ft.
I-5	2.8	Cu. Yds.
S-1	46.6	Cu. Yds.
S-1	32	Lbs.
S-4	8	Lin. Ft.
I-8	2	Lin. Ft.
I-8	5	Lin. Ft.
I-8	3	Lin. Ft.
I-8	7	Lin. Ft.
I-8	2	Lin. Ft.
I-8	4	Lin. Ft.
I-8	1	Lin. Ft.
I-8	94	Lin. Ft.
I-13	5360	Sq. Ft.
I-17	8.7	Cu. Yds.
Special	6	Lin. Ft.
Special	163	Lin. Ft.
Special	3	Lin. Ft.
Special	1	Lin. Ft.
Pavement		
B-11	4217.5	Sq. Yds.
B-71	5017.5	Sq. Yds.
T-70	136.6	Sq. Yds.
T-80	4954.2	Sq. Yds.
T-90	54.3	Sq. Yds.
I-11	290.4	Lin. Ft.
I-11	274.1	Lin. Ft.
I-11	251.8	Lin. Ft.
I-11	786.3	Lin. Ft.
I-12	296.5	Lin. Ft.
I-12	24.6	Lin. Ft.
I-11	33.6	Lin. Ft.
Structures Under 20 Ft. Span		
E-2	82	Cu. Yds.
S-27	219	Lin. Ft.

PLAN SHEET NO. 10

PROFILE SHEET NO. 10

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	46 51
10	OHIO		1935	

CLEVELAND-OBERLIN RD.
SH694 SEC CLEVELAND-FAIRVIEW BRIDGE
CUYAHOGA COUNTY

LANDSCAPE IMPROVEMENT SPECIFICATIONS

GENERAL

- 1. IT SHALL BE UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE PROGRESS OF LANDSCAPE WORK, EMPLOY AT HIS OWN EXPENSE AND RISK OF THE JOB AN EXPERIENCED LANDSCAPE SUPERVISOR OR FOREMAN WHO CAN INTERFERE WITH THE WORK AND BE HELD RESPONSIBLE FOR THE PROGRESS OF THE WORK AND THE QUALITY OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC.
- 2. IT SHALL BE UNDERSTOOD AND AGREED THAT THE DIRECTOR OF HIGHWAYS WILL HAVE FINAL JURISDICTION AS TO ANY QUESTION OF SPECIFICATIONS AND QUALITY, AND CONTRACTOR WILL ABIDE BY HIS DECISIONS.
- 3. ALL PLANTS SHALL BE OBTAINED BY THE CONTRACTOR THROUGH ONE GROWING SEASON OF THE YEAR AND NOT LESS THAN 12 MONTHS. A GROWING SEASON SHALL BE CONSIDERED TO BE FROM MAY 1ST TO OCTOBER 31ST. ANY PLANTS NOT BEING PLANTED BY THE CONTRACTOR AT THE END OF THE GROWING SEASON SHALL BE REPLACED WITH PLANTS OF THE ORIGINAL SIZE AND QUALITY. PLANTS PLANTED AT THE END OF THE GROWING SEASON SHALL BE REPLACED WITH PLANTS OF THE ORIGINAL SIZE AND QUALITY. PLANTS PLANTED AT THE END OF THE GROWING SEASON SHALL BE REPLACED WITH PLANTS OF THE ORIGINAL SIZE AND QUALITY. PLANTS PLANTED AT THE END OF THE GROWING SEASON SHALL BE REPLACED WITH PLANTS OF THE ORIGINAL SIZE AND QUALITY.
- 4. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL FOREIGN MATTER, FROM THE PROJECT AREA, AND ALL PLANTING AREAS SHALL BE LEFT IN A CLEAN AND ORDERLY MANNER.
- 5. ALL VINES WHICH IN THE COURSE OF THE WORKING CAN BE GROWN AND KEPT BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR. ALL OTHER VINES WHICH IN THE COURSE OF THE WORKING CAN BE GROWN AND KEPT BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR. ALL OTHER VINES WHICH IN THE COURSE OF THE WORKING CAN BE GROWN AND KEPT BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR.
- 6. IT IS UNDERSTOOD AND AGREED THAT THE LANDSCAPE IMPROVEMENT SHALL INCLUDE ALL THAT WORK, AND ONLY THAT WORK, WHICH IS LIMITED TO THE GROWING SEASON FOR LANDSCAPE IMPROVEMENT AND AS THE RESULT OF THE CONTRACTOR'S WORK SHALL BE KEPT BY THE CONTRACTOR. ALL OTHER WORK, SUCH AS FENCING AND FENCE POSTS, SHALL BE KEPT BY THE CONTRACTOR UNDER THE GENERAL TERMS OF THE BIDDING CONTRACT.
- 7. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL COMPLETE ALL WORK BY THE END OF THE YEAR SO THAT ALL LANDSCAPE IMPROVEMENT SHALL BE COMPLETED BY THE END OF THE YEAR, 1935, AND SHALL BE COMPLETED BY THE END OF THE YEAR, 1935.

EXPLANATION

- 1. THE CONTRACTOR SHALL STRENGTHEN AND STABILIZE OR REPAIR THE JOB ALL THROUGH WITHIN THE LIMITS OF THE PROJECT AREA EXCEPTED BY THE BIDDING CONTRACT.
- 2. ALL TYPICAL STRIPED AND STOPPED SHALL BE FROM THE STREET AND FUTURE HIGHWAY.
- 3. THE SPECIES OF PLANT LIFE WITHIN THE LIMITS OF PROJECT AREA SHALL BE KEPT BY THE CONTRACTOR AT HIS OWN EXPENSE AND RISK OF THE JOB. THE CONTRACTOR SHALL MAINTAIN THE PROGRESS OF THE WORK AND THE QUALITY OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC.
- 4. THE COST OF STRIPED AND STOPPED SHALL BE KEPT BY THE CONTRACTOR AS AN EXPLANATION UNDER ITEM NO. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 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, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 5. THE CONTRACTOR SHALL MAINTAIN ALL PLANTING AREAS, AND SHALL ALSO MAINTAIN ALL THE VINES AND PLANTING AREAS AT APPROVED AND APPROVED, AND SHALL ALSO MAINTAIN ALL THE VINES AND PLANTING AREAS AT APPROVED AND APPROVED, AND SHALL ALSO MAINTAIN ALL THE VINES AND PLANTING AREAS AT APPROVED AND APPROVED.

PREPARATION OF PLANTING AREAS

- 1. THE CONTRACTOR SHALL NOT START PREPARATION OF PLANTING AREAS UNTIL THE SURFACE HAS BEEN COMPLETED, AND THE AREA APPROVED BY THE DIRECTOR OF HIGHWAYS.
- 2. UPON THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL SPREAD, AT THE RATE OF ONE AND ONE-HALF CUBIC YARDS PER 1000 SQUARE FEET, ALL TYPES OF SOIL AND SHALL BRUSH THE SAME INTO THE CORNER TO A DEPTH OF TWO FEET.
- 3. SOIL WHICH HAS BEEN SPREAD BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR AND NOT TO BE KEPT BY THE CONTRACTOR. SOIL WHICH HAS BEEN SPREAD BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR AND NOT TO BE KEPT BY THE CONTRACTOR.
- 4. AFTER SOIL HAS BEEN SPREAD, ALL STONES, BRUSH AND FOREIGN MATTER SHALL BE KEPT BY THE CONTRACTOR AND NOT TO BE KEPT BY THE CONTRACTOR. AFTER SOIL HAS BEEN SPREAD, ALL STONES, BRUSH AND FOREIGN MATTER SHALL BE KEPT BY THE CONTRACTOR AND NOT TO BE KEPT BY THE CONTRACTOR.

PLANTING

- 1. AFTER PREPARATION HAS BEEN MADE BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. AFTER PREPARATION HAS BEEN MADE BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.
- 2. ALL PLANTS SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. ALL PLANTS SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.
- 3. AFTER PLANTING, THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. AFTER PLANTING, THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.
- 4. ALL PLANTS SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. ALL PLANTS SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.
- 5. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL COMPLETE ALL WORK BY THE END OF THE YEAR SO THAT ALL LANDSCAPE IMPROVEMENT SHALL BE COMPLETED BY THE END OF THE YEAR, 1935, AND SHALL BE COMPLETED BY THE END OF THE YEAR, 1935.
- 6. ANY OTHER WORK WHICH IS NOT KEPT BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.

- 8. THE CONTRACTOR SHALL GUARANTEE A "STAND OF GROWTH" (A STAND OF TREES) OVER ALL DESIGN AREAS UNTIL THE TIME OF THE FIRST MOWING (FIRST MOWING IS 18 INCHES LONG) AND SHALL MAINTAIN THESE DESIGN AREAS UP TO THE TIME OF FIRST MOWING FROM WHICH SHALL ALSO BE KEPT BY THE CONTRACTOR.
- 9. THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.

EXPLANATION

- 1. AFTER THE CONTRACTOR HAS DEVELOPED AND APPROVED THE DESIGN FOR THE DESIGN AREAS, THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. AFTER THE CONTRACTOR HAS DEVELOPED AND APPROVED THE DESIGN FOR THE DESIGN AREAS, THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.
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EXPLANATION

- 1. ALL AREAS DESIGNATED ON THE LANDSCAPE PLANS TO BE "PREPARED AND SOILED" SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR. ALL AREAS DESIGNATED ON THE LANDSCAPE PLANS TO BE "PREPARED AND SOILED" SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.
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GRASS PLANT

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PLANTING

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PLANTING

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ANY OTHER WORK WHICH IS NOT KEPT BY THE CONTRACTOR SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.

EXPLANATION

ALL PLANTING AREAS AND DESIGN AREAS IN THE DESIGN AREAS, OR WHICH IS NOT PLANTED TO COMPLY WITH ALL SPECIFICATIONS, SHALL BE KEPT BY THE CONTRACTOR, AND SHALL BE KEPT BY THE CONTRACTOR.

EXPLANATION

THE CONTRACTOR SHALL MAINTAIN THE PROGRESS OF THE WORK AND THE QUALITY OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC. THE CONTRACTOR SHALL MAINTAIN THE PROGRESS OF THE WORK AND THE QUALITY OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC.

EXPLANATION

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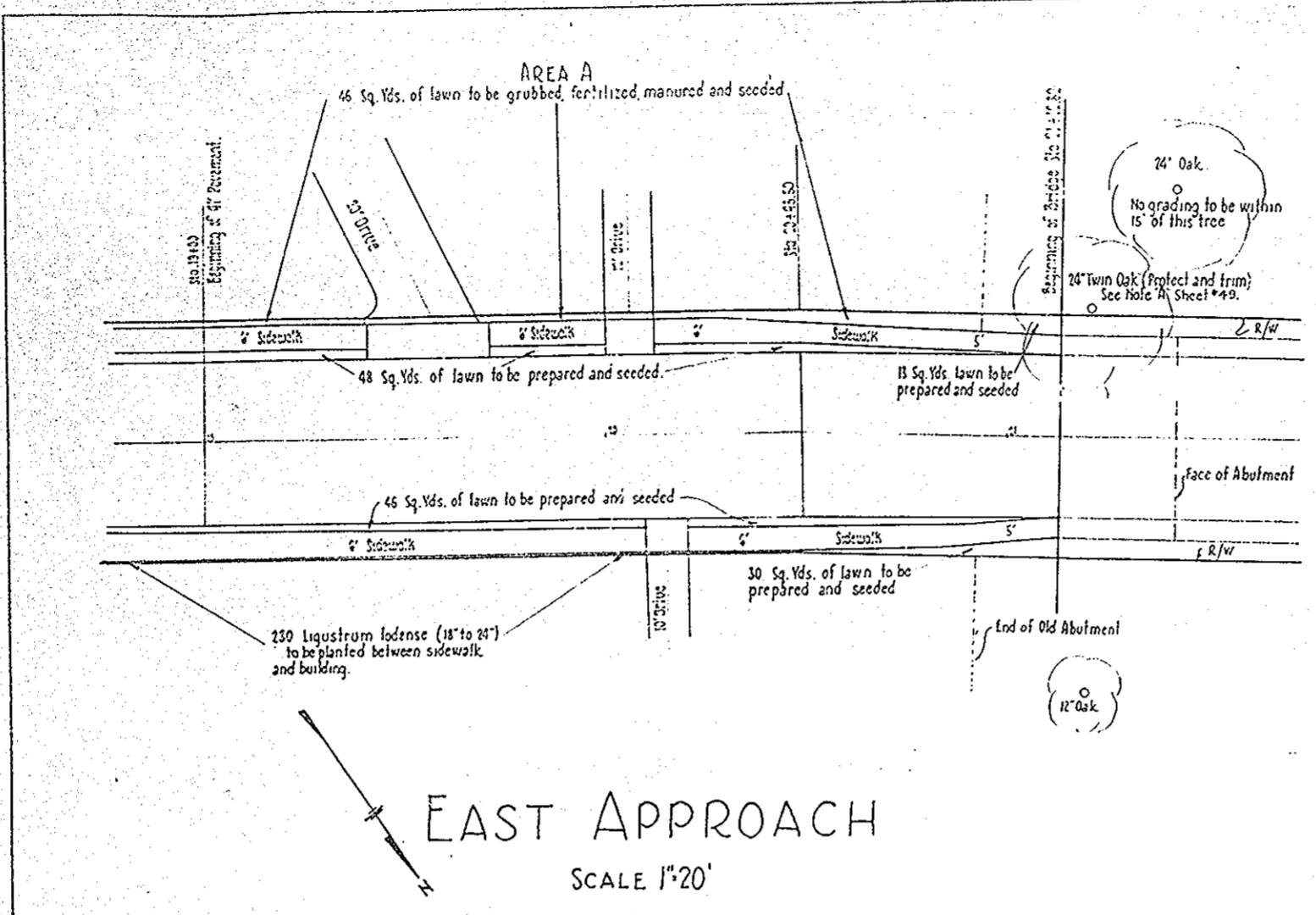
EXPLANATION

THE CONTRACTOR SHALL MAINTAIN THE PROGRESS OF THE WORK AND THE QUALITY OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC. THE CONTRACTOR SHALL MAINTAIN THE PROGRESS OF THE WORK AND THE QUALITY OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC.

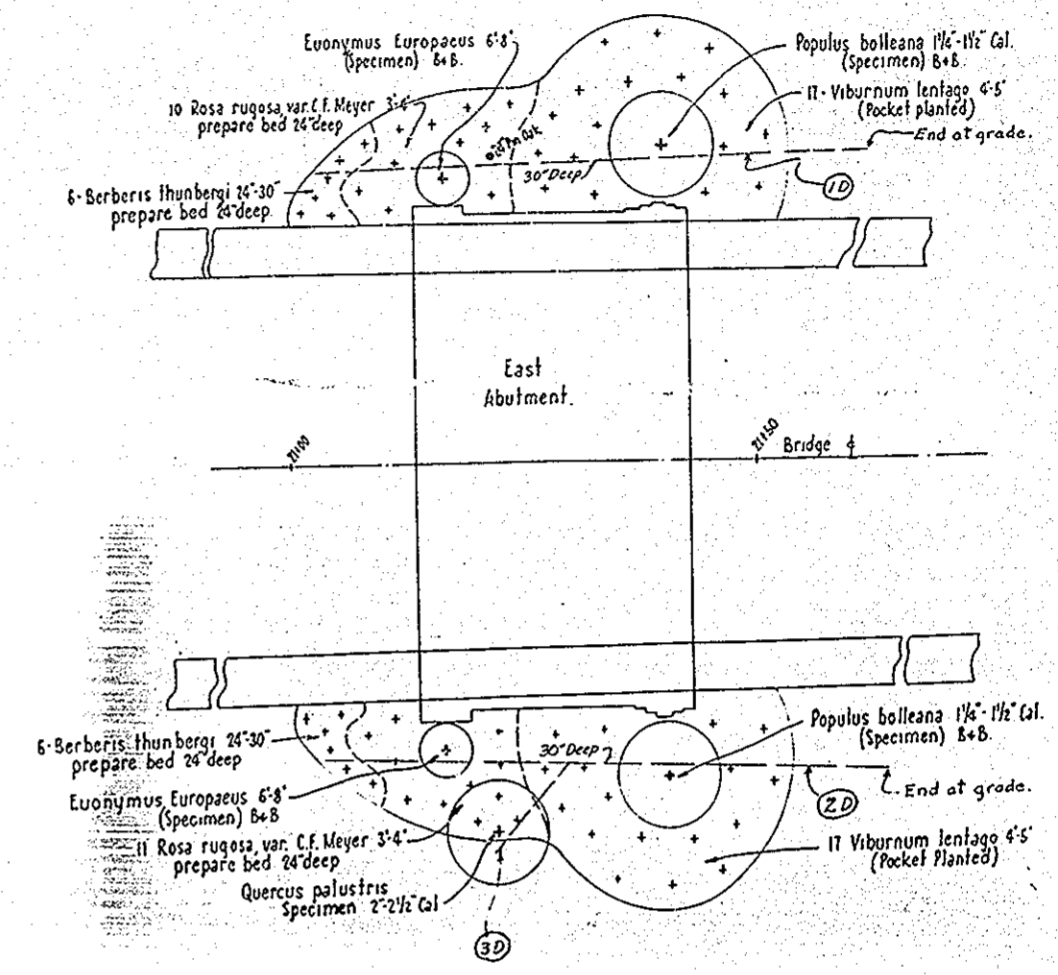
EXPLANATION

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STATE OF OHIO
DEPARTMENT OF HIGHWAYS
LANDSCAPE SPECIFICATIONS



EAST APPROACH
SCALE 1"=20'



PLANTING DETAIL OF EAST ABUTMENT
SCALE 1"=10'

Quantities	Name	SIZE
2	Populus balsamifera Specimen, B+B	10'-12"
2	Euonymus Europaeus Specimen, B+B	6'-8"
30	Viburnum lentago	4'-5"
21	Rosa rugosa, var. C.F. Meyers	3'-4"
12	Berberis thunbergii	2'-3"
1	Quercus palustris Specimen	14'-16"
220	Ligustrum lodense	18"-24"

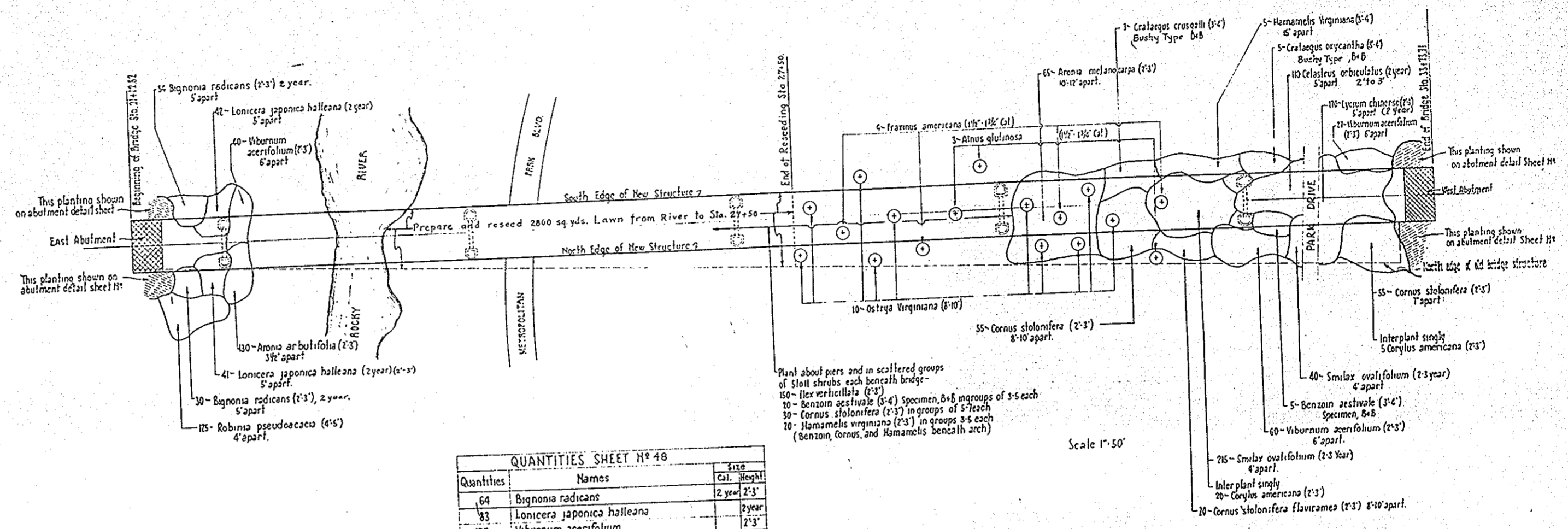
Quantities	Name
131 Sq. Yds.	Lawn to be prepared and seeded
46 Sq. Yds.	Lawn to be grubbed, fertilized, manured and seeded

REF. NO.	STATION	SIDE	LIN. FT.
1 D	21+00 to 21+60	LT.	60
2 D	21+05 to 21+65	RT.	60
3 D	21+21 to 21+28	RT.	12
TOTAL	SHEET No 47		132

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CUYAHOGA COUNTY

PLAN SHOWING LANDSCAPE IMPROVEMENT EAST APPROACH AND ABUTMENT.

DESIGNED	DRAWN	CHECKED
E.H.B.		C.S.S.



QUANTITIES SHEET N^o 48

Quantities	Names	Size
64	Bignonia radicans	2 year 2'-3'
42	Lonicera japonica halleana	2 year
121	Viburnum acerifolium	2'-3'
130	Aronia arbutifolia	2'-3'
125	Robinia pseudoacacia	4'-5'
4	Fraxinus americana	10'-12'
3	Alnus glutinosa	10'-12'
65	Aronia melanocarpa	2'-3'
3	Crataegus crusgalli, Bushy Type, B+B	3'-4'
25	Hamamelis virginiana	3'-4'
5	Crataegus arycantha, Bushy Type, B+B	3'-4'
110	Celastrus orbiculatus	2 year 2'-3'
170	Lycium chinese	8'-10'
10	Ostrya virginiana	8'-10'
140	Cornus stolonifera	2'-3'
150	Ilex verticillata	2'-3'
25	Benzoin aestivale, B+B	3'-4'
25	Corylus americana	2'-3'
255	Smilax ovalifolium (Collected)	2 year
20	Cornus stolonifera flavoamea	2'-3'

Plant about piers and in scattered groups of 5-10 shrubs each beneath bridge -
 150 - Ilex verticillata (2'-3')
 10 - Benzoin aestivale (3'-4') specimen, B+B in groups of 3-5 each
 30 - Cornus stolonifera (2'-3') in groups of 3-5 each
 20 - Hamamelis virginiana (2'-3') in groups 3-5 each (Benzoin, Cornus, and Hamamelis beneath arch)

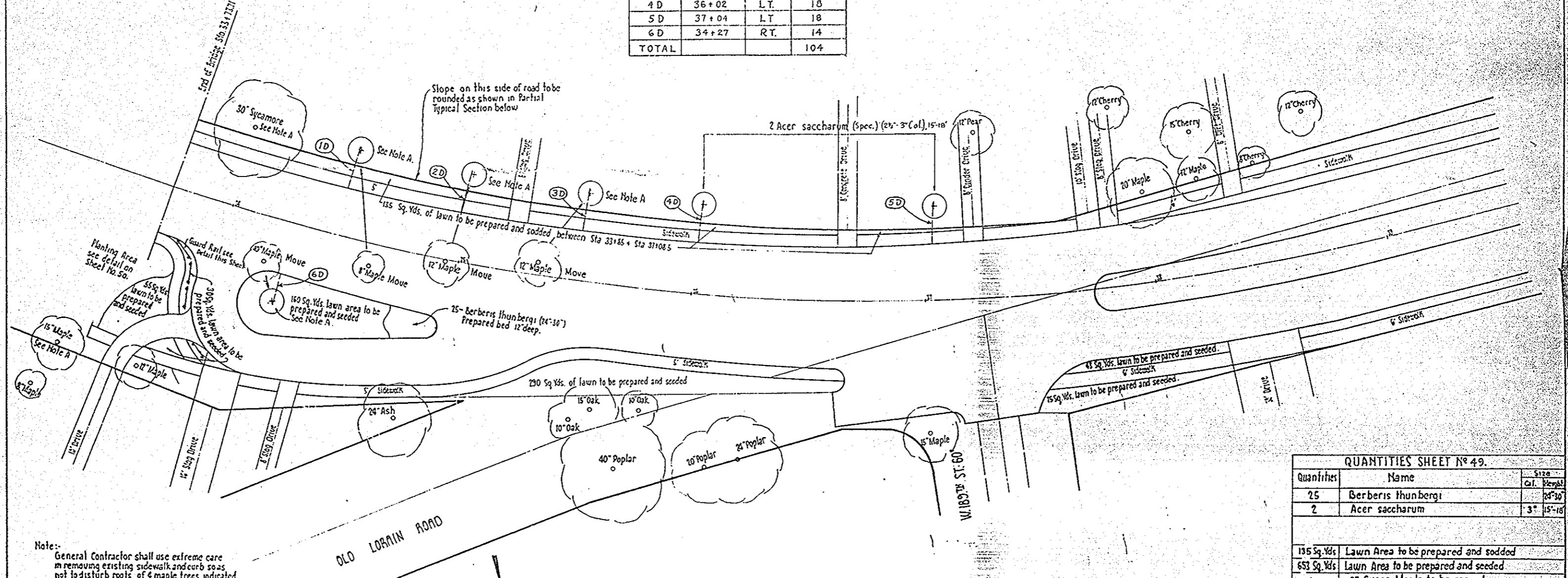
Scale 1" = 50'

Note: Planting of shrubs beneath bridge shall be naturalized as directed by the Landscape Architect.

3" DRAIN TILE SUMMARY SHEET NO. 49

REF. NO.	STATION	SIDE	LIN. FT.
1 D	34+46	L.T.	18
2 D	34+97	L.T.	18
3 D	35+51	L.T.	18
4 D	36+02	L.T.	10
5 D	37+04	L.T.	18
6 D	34+27	R.T.	14
TOTAL			104

NOTE A
Trunks of the six trees indicated by Note A shall be securely and closely banded by plank to prevent injury to the trunk. Lower branches of 30" Sycamore shall be trimmed off and painted as directed by the Engineer.



QUANTITIES SHEET NO. 49.

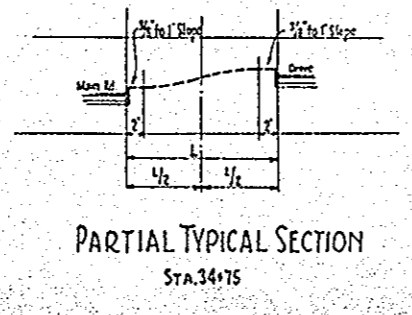
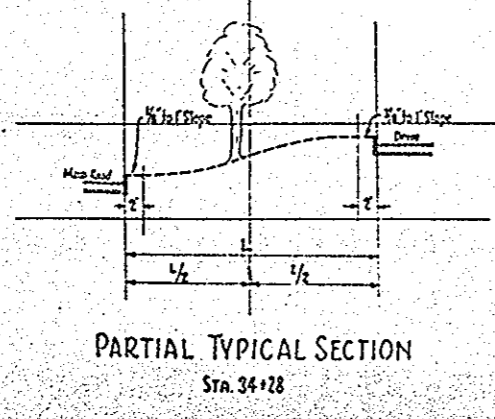
Quantities	Name	Size
25	Berberis thunbergii	24" 30"
2	Acer saccharum	3" 15'-18"

135 Sq. Yds.	Lawn Area to be prepared and sodded
653 Sq. Yds.	Lawn Area to be prepared and seeded
1	8" Sugar Maple to be moved
1	10" Sugar Maple to be moved
2	12" Sugar Maple to be moved.
50 Lin. Ft.	Rustic Timber Guard Rail

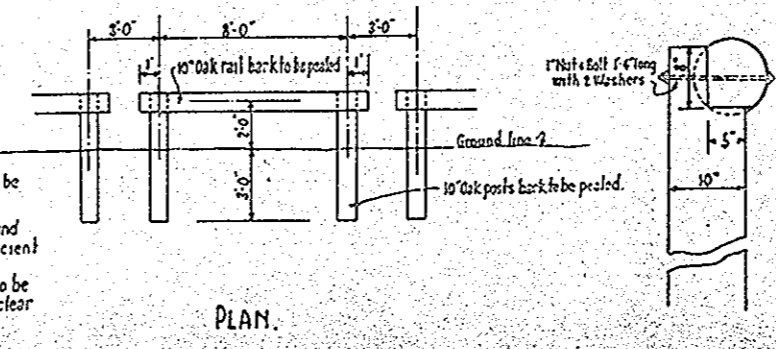
Note:- General Contractor shall use extreme care in removing existing sidewalk and curb so as not to disturb roots of 4 maple trees indicated to be removed.

WEST APPROACH.
SCALE 1"=20'

DETAIL OF GUARD RAIL.



Note:- All Posts below ground shall be encased as per Sec. M-15. All rails and posts above ground shall be stained brown sufficient to cover. Material for Posts and rails to be salvaged from timber cut to clear the right of way.



DETAIL OF ALTERNATE JOINTS.

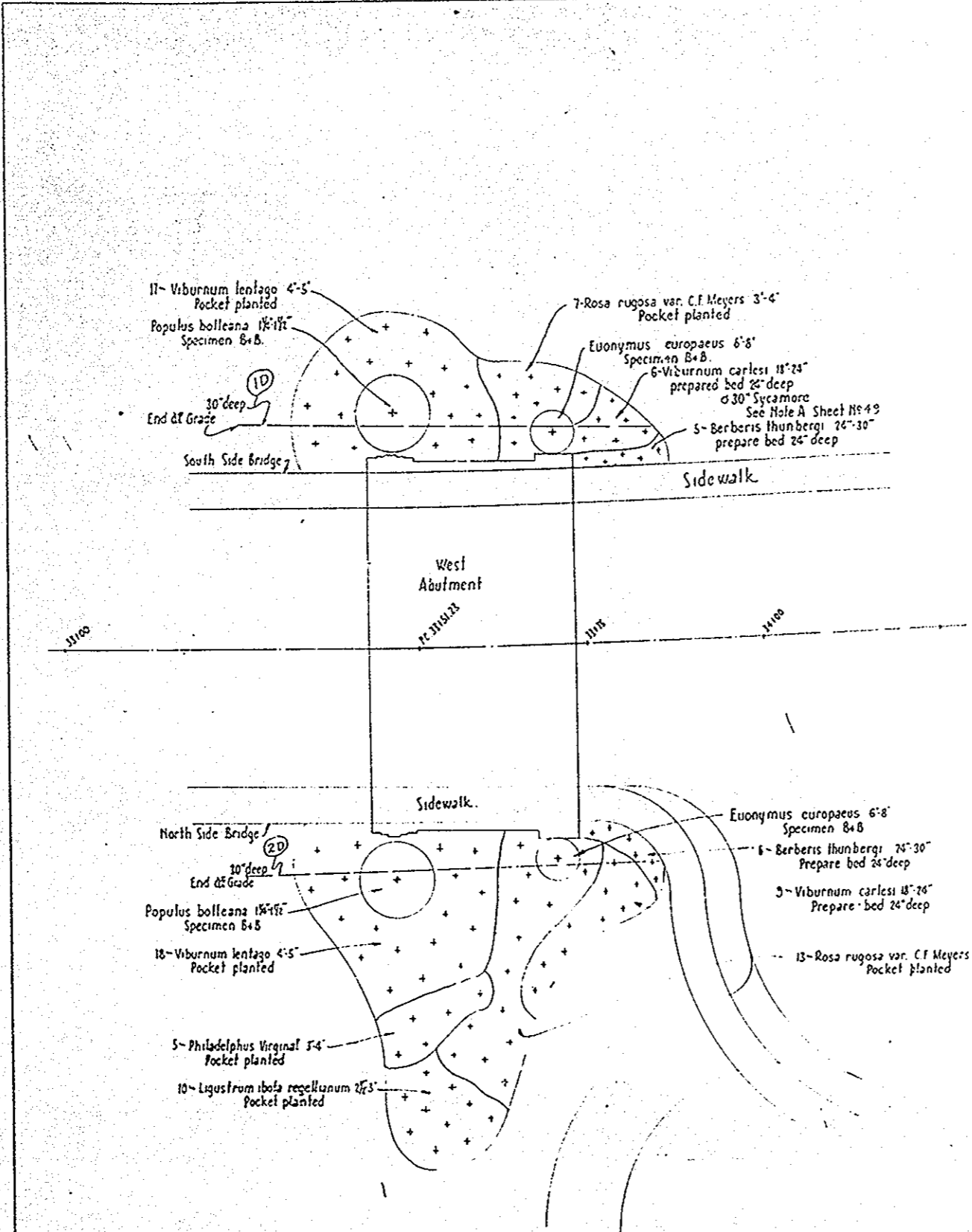
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CUYAHOGA COUNTY

PLAN SHOWING
LANDSCAPE IMPROVEMENT
WEST APPROACH

STUDIED	DESIGNED	TRACED	CHECKED	REVISIONS
R. H. B.		C. L. B.		

Fed. Aid Dist.	State	Proj. No.	Fiscal Year
10	OHIO		

CUYAHOGA COUNTY
S.H. 694, SEC. CLEVELAND FAIRVIEW
CLEVELAND-OBERLIN RD.



Quantities	Names	Size	
		Cal.	Height
2	Populus balsamifera Specimen B+B	18'-18'	
2	Euonymus europaeus Specimen B+B	6'-8'	
35	Viburnum lentago	4'-5'	
15	Viburnum carlesii	18'-24'	
5	Philadelphus virginial	3'-4'	
70	Rosa rugosa var. C.F. Meyer	3'-4'	
11	Berberis thunbergii	24'-30'	
10	Ligustrum ibola regellanum	24'-30'	

REF. NO.	STATION	SIDE	LIN. FT.
1 D	33+25 to 33+63	LT	58
2 D	33+25 to 33+63	RT	58
TOTAL	SHEET NO. 50		116

PLANTING DETAIL OF
WEST ABUTMENT
SCALE 1"=10'

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CUYAHOGA COUNTY

DETAILS FOR
WEST APPROACH AND
ABUTMENT

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
E. W. B.	C. S. B.			

SUMMARY SHEET LANDSCAPE IMPROVEMENT PROPOSAL N°3.

FED. RD. DIST. N°	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		

CUYAHOGA COUNTY
S.H. N° 690 SEC. CLEVELAND FAIRVIEW BRIDGE
CLEVELAND-OBERLIN RD.

3" DRAIN TILE SUMMARY

Sheet No.	Lin. Ft.
47	132
49	104
50	116
TOTAL	352

Quantity	Name	Size	
		Cal	Height
4	Populus balsamifera, Specimen, B+B	1 1/2" - 1 1/2"	10' - 12'
4	Euonymus europaeus, Specimen, B+B		6' - 8'
48	Berberis thunbergii		24" - 30"
41	Rosa rugosa, var. C.F. Meyer		3' - 4'
69	Viburnum lentago		4' - 5'
15	Viburnum carlesii		18" - 24"
5	Philadelphus virginianus		3' - 4'
10	Ligustrum ibota regelianum		2 1/2' - 3'
230	Ligustrum lodense		18" - 24"
1	Quercus palustris, Specimen	2" - 2 1/2"	15" - 16"
2	Acer saccharum, Specimen	2 1/2" - 3"	15" - 18"
25	Hamamelis virginiana		3' - 4'
5	Crataegus oxyantha, Bushy type, B+B		3' - 4'
110	Celastrus orbiculatus		2 year
170	Lycium chinense		2' - 3"
127	Viburnum acerifolium		2' - 3"
140	Cornus stolonifera		2' - 3"
75	Corylus americana		2' - 3"
255	Smilax ovatifolium (collected)		2-3 year
25	Benzoin aestivale, B+B		3' - 4'
20	Cornus stolonifera flaviramea		2' - 3"
3	Crataegus crusgalli, Bushy type, B+B		3' - 4'
65	Aronia melanocarpa		2' - 3"
4	Fraxinus americana	1 1/2" - 1 3/4"	10' - 12'
3	Alnus glutinosa	1 1/2" - 1 3/4"	10' - 12'
10	Ostrya virginiana		8' - 10'
150	Ilex verticillata		2' - 3"
64	Bignonia radicans		2 year
83	Lonicera japonica halliana		2 year
130	Aronia arbutifolia		2' - 3"
125	Robinia pseudoacacia		4' - 5'

	Quantities	
Lawn (to be grubbed, manured, seeded)	46	Sq. Yds.
Lawn (to be prepared and seeded)	792	Sq. Yds.
Lawn (to be prepared and sodded)	135	Sq. Yds.
Timber Guard Rail	50	Lin. Ft.
Sugar Maple (8" Cal.) Trees to be moved	1	
Sugar Maple (10" Cal.) Trees to be moved	1	
Sugar Maple (12" Cal.) Trees to be moved	2	
Lawn (to be prepared and reseeded) beneath bridge	2800	Sq. Yds.
Mulching planting beds and pockets (Manure 2" deep)	833	Sq. Yds.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CUYAHOGA COUNTY

PLAN SHOWING
LANDSCAPE IMPROVEMENT
GENERAL SUMMARY
PROPOSAL N°3

STUDIED	DRAWN	TRACED	CHECKED
C.S.B.	C.S.B.	C.S.B.	C.S.B.