

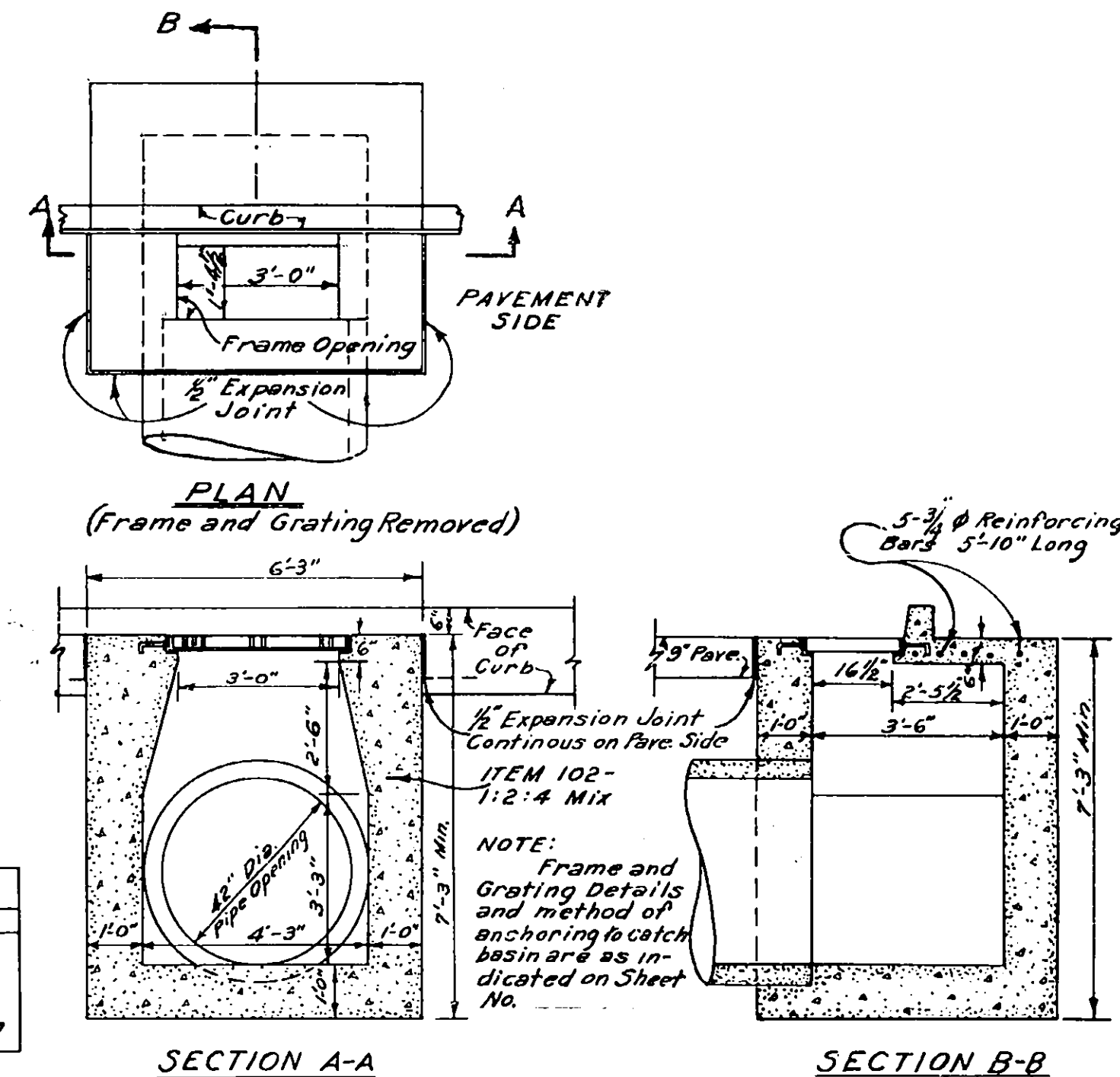
STATE OF NEW YORK  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF CONSTRUCTION

PLANS FOR THE CONSTRUCTION OF THE  
**Hopkins Road Access to the Ontario Thruway**  
From Station 31+00 at its intersection with County Road No. 148 northeasterly to Station 62+50 at its intersection with County Road No. 45; a length of 0.60 mile in the Town of Salina

8 Sheets Contract No. O.T. 47-3

**ONONDAGA COUNTY**

COMBINED WITH F.A.-S.S. 47-5 IN ONE CONTRACT.



BENCH MARKS				
No.	Station	Side	Description	Elev.
5	27+57	Lt.	Twin Poplar	411.49
264	44+75	Rt.	15' Elm (Thruway)	408.73
6	51+95	Rt.	13' Elm	405.91
7	61+85	Rt.	24' Maple	413.27

**NOTE:** Under this contract piles are to be driven and concrete footings, 4 feet in depth, for the abutments, wingwalls and center piers are to be constructed for the bridge which is to carry the Ontario Thruway over Hopkins Road at Station 43+60.6 (Thruway Sta. 2250+52). All other concrete work for this structure is to be done under a later contract.

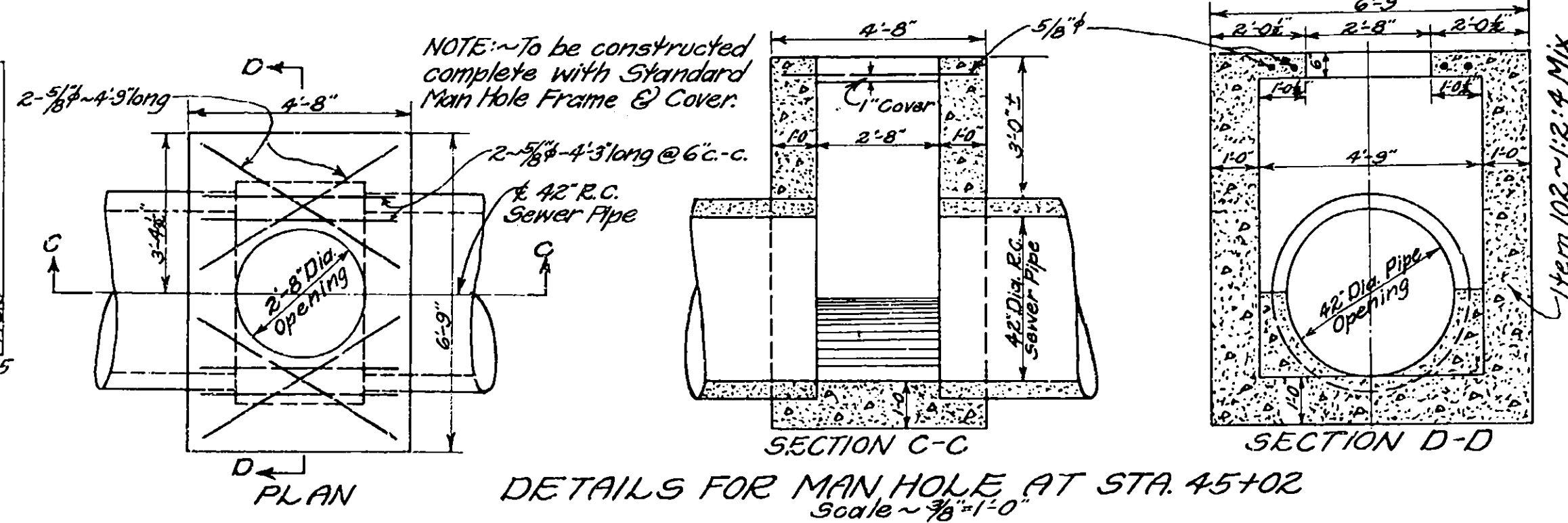
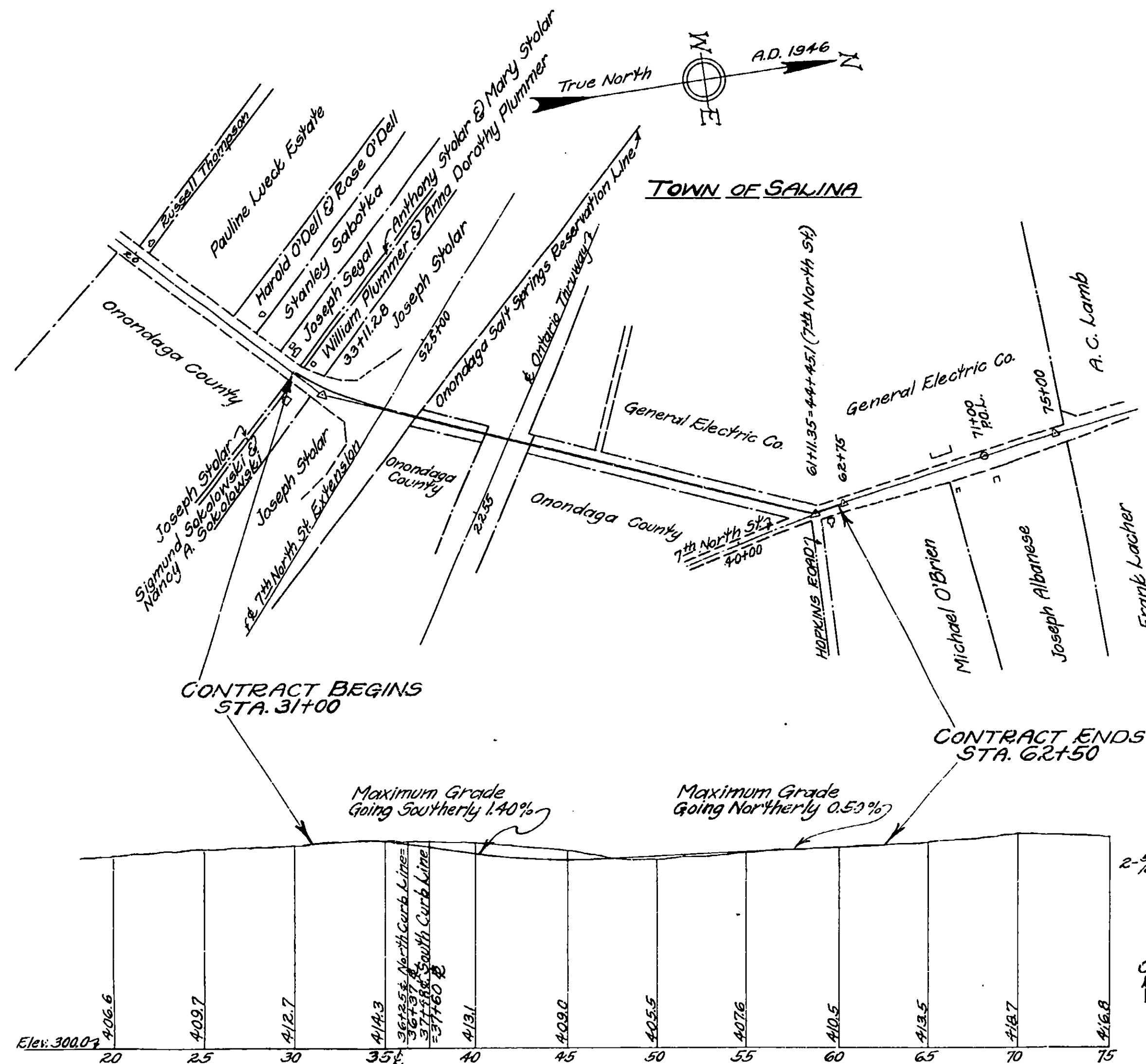
**NOTE:** Estimate of quantities required for the bridge footings to be placed under this contract. This list of quantities is to be used in lieu of that shown on the sheet entitled "HOPKINS ROAD BRIDGE STA. 2250+52 LAYOUT" which is the list of quantities for the entire bridge structure.

NO.	ITEM	UNIT	NEAT	ROUNDED
5	Trench, Culvert, and Bridge Excavation	Cu. Yds.	2545	2800
10YA	Pipe Underdrain, 4" Diameter	Lin. Ft.	80	85
15-2	Portland Cement Type 2	Bbls.	1310	1370
15N	Natural Cement Type N	Bbls.	158	165
20	First Class Concrete	Cu. Yds.	877	910
28	Bar Reinforcement for Structures	Lbs.	3135	3200
31	Pile Shoes	Each	141	146
84TC	Creosoted Timber Piles	Lin. Ft.	2727	3000
87	Furnishing Equipment for Driving Piles	L.S.	Nec.	Nec.
119	R.O.B. Gravel Backfill	Cu. Yds.	314	350

**TYPE OF CONSTRUCTION**  
Reinforced Concrete Pavement 0.60 Mile  
Concrete Footings for Abutments and Piers for Grade Separation Structure, Station 43+60.6

**STANDARD STRUCTURE SHEETS**  
47-2 40-1, 40-3, 40-101, 40-103, 46-4, 46-7, 46-11, 46-14R, 46-15, 46-16, 46-18, 46-29R, 47-6R, 47-36, 47-37

All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1947, except as modified on these plans and in the Itemized Proposal.



Made by C. J. Fisher Traced by R. F. Buckert Checked by C. J. Fisher  
PLAN C. J. Fisher PROFILE P. B. Chace

Approved Aug 20 1947  
B. D. TALLAMY  
Chief Engineer

Approved Aug 20 1947  
E. T. GAWKINS  
Deputy Chief Engineer

Prepared pursuant to the Highway Law and recommended by Aug 20 1947  
Engineer District No. 3

BRIDGE APPROACH

ONTARIO THRUWAY-HOPKINS

Slope  $\frac{1}{4}$ " per ft.

11'-0"

24'-0"

12'-0"

12'-0"

15'-0"

15'-0"

24'-0"

12'-0"

12'-0"

Slope  $\frac{1}{2}$ " per ft.

Grade Line

Slope  $\frac{1}{4}$ " per ft.

Slope  $\frac{3}{16}$ " per ft.

Slope  $\frac{3}{16}$ " per ft.

Slope  $\frac{1}{4}$ " per ft.

Item 27L - Longitudinal Joint Supports

Item 25 - Metal Reinforcement for Concrete Pavement

Item 47 - Cement Concrete Pavement - 9" uniform thickness

Item 39 - Foundation Course, Run of Bank Gravel 12" thick

Item 97C - Concrete Curbing - Type C

Expansion Joint

Expansion Joint

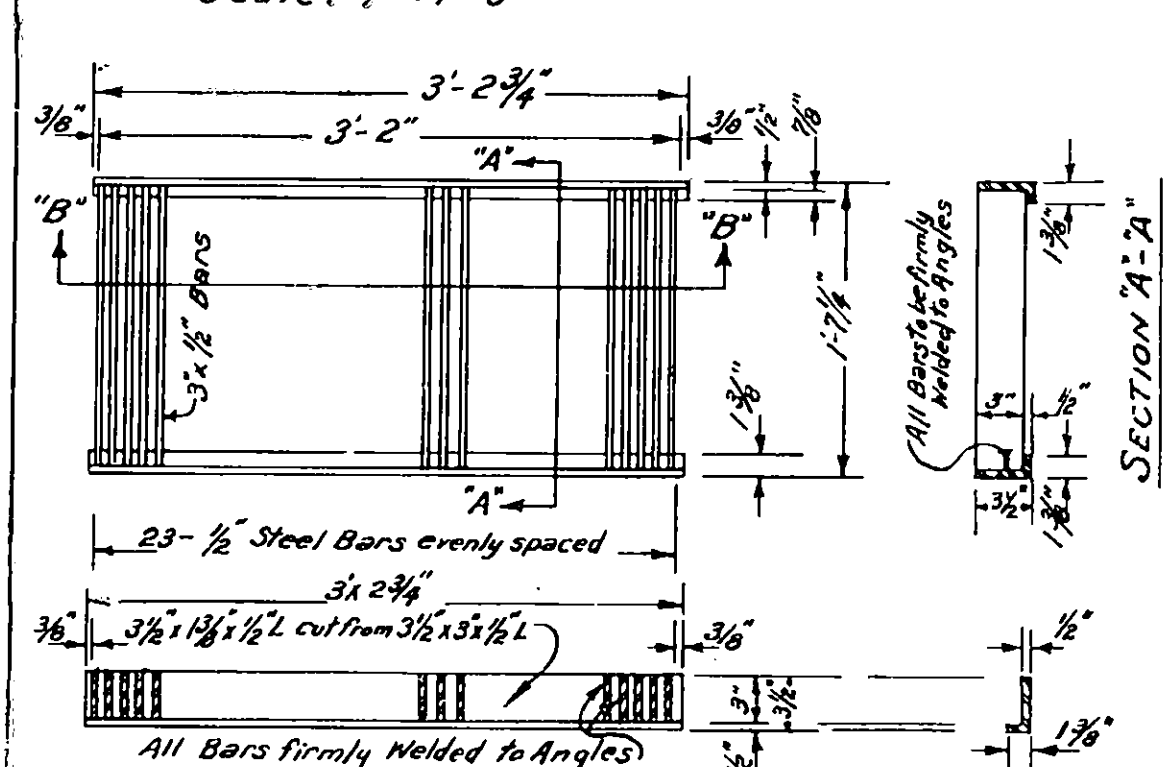
Maximum Payment Lines for Excavation unless otherwise ordered in writing by the Engineer

Scale:  $1/4" = 1'-0"$

NOTE: ~ Surplus material from excavation must be disposed of as directed by the Engineer.

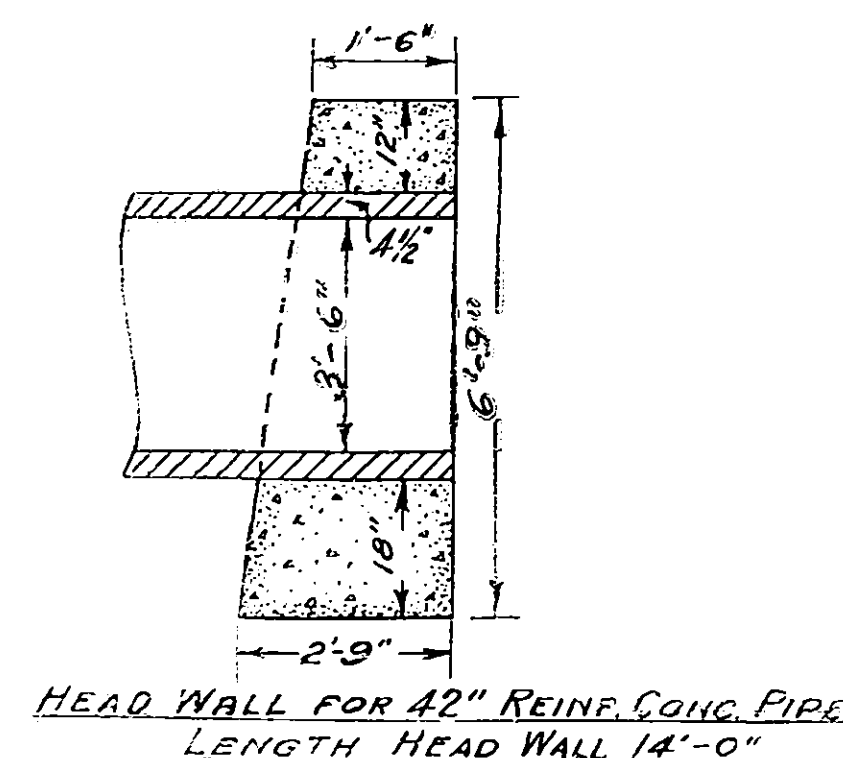
~NOTE~  
Frames and Grates to be taken  
out of Wind after Welding.

PLAN OF GRATING  
Scale: 1" = 1'-0"

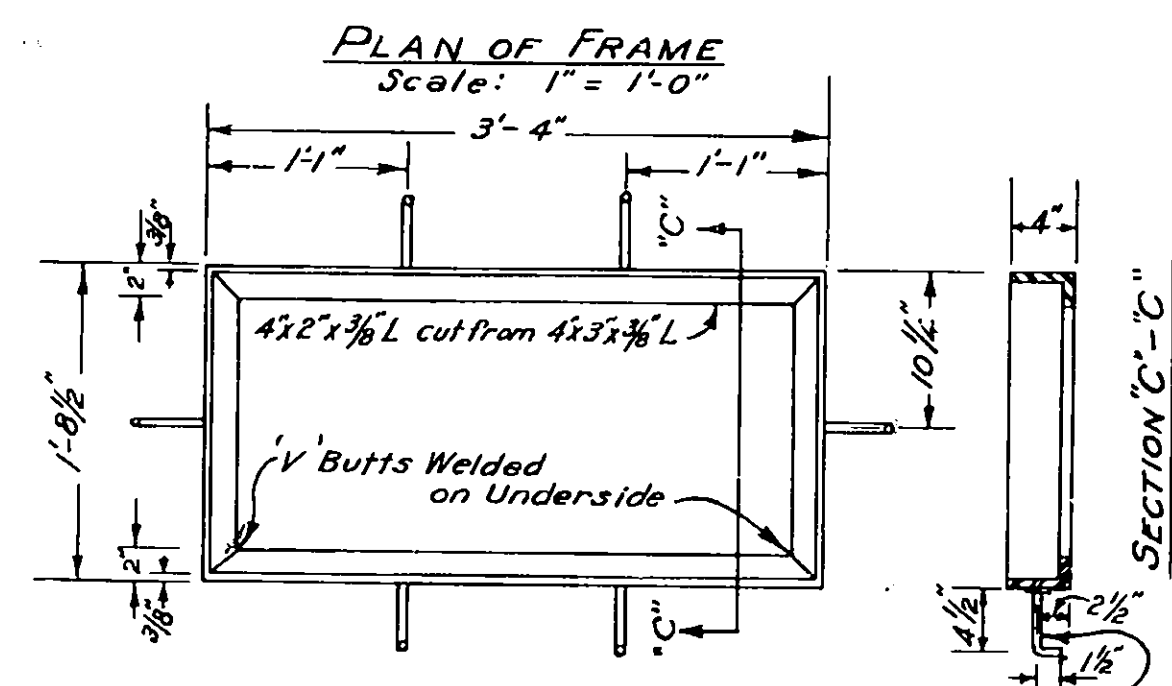


Scale: 1" = 1'-0"

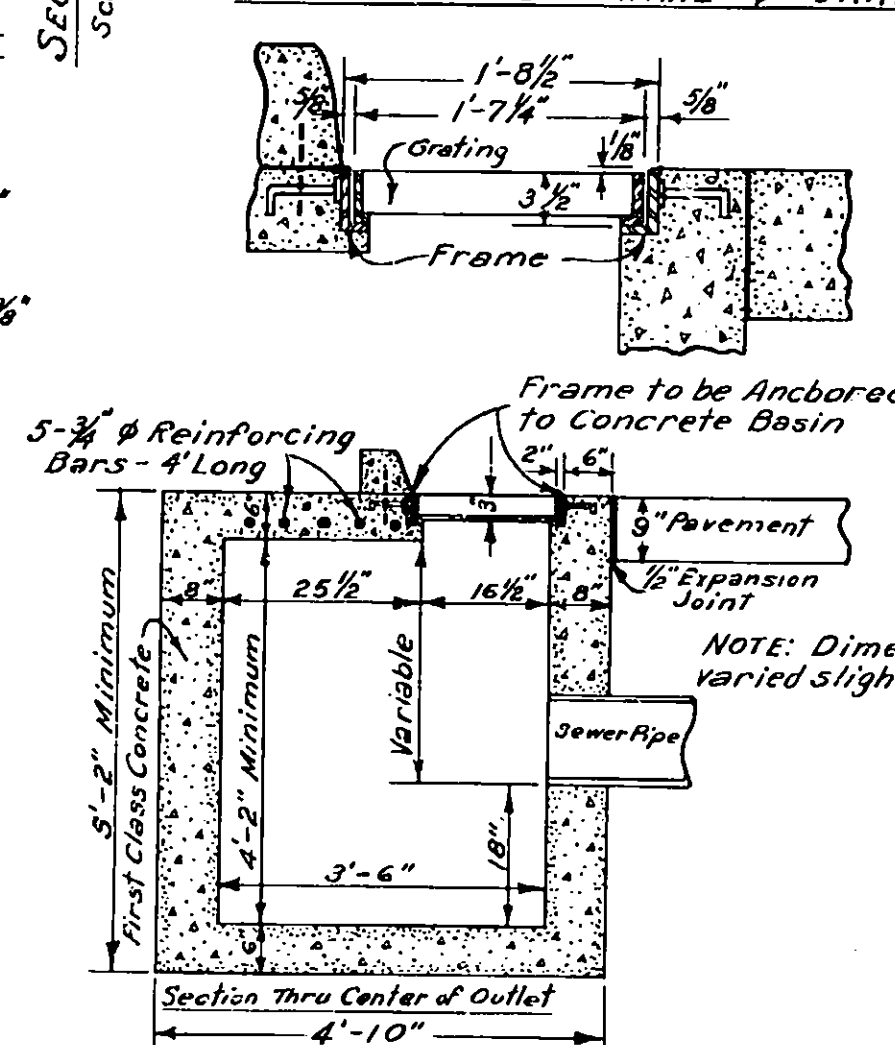
Estimated Wt. 310<sup>g</sup>



Made By OSChase Traced By J.H. Smith Checked By C.J. Fisher

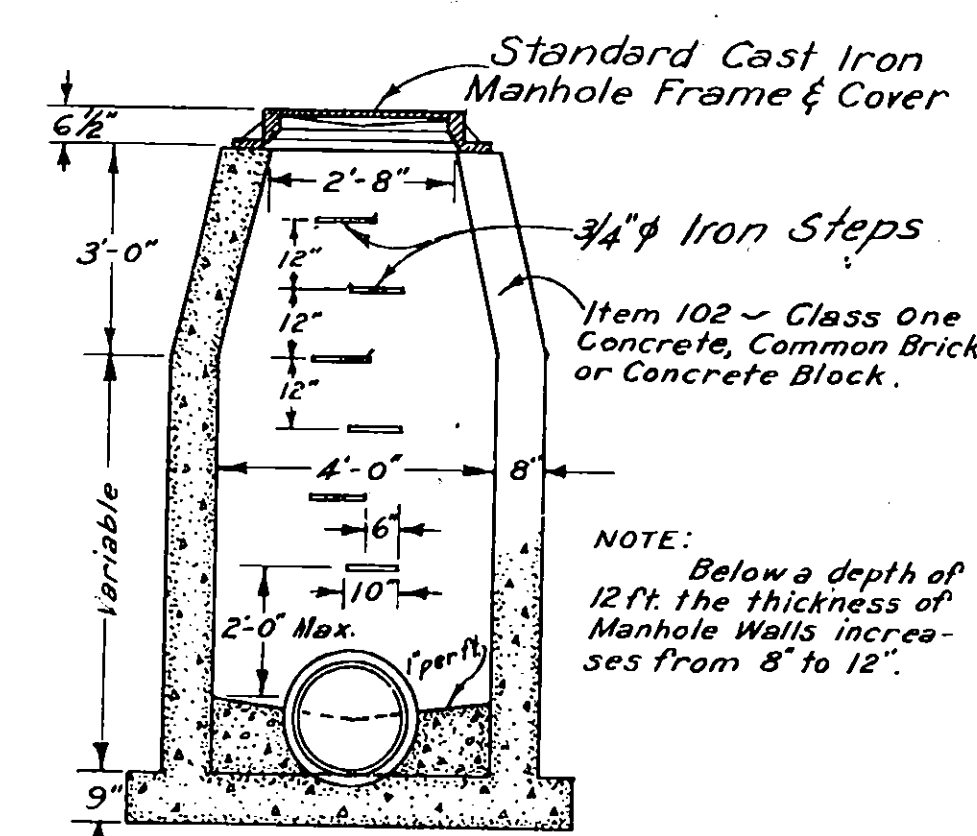


SECTION THRU FRAME & GRATING



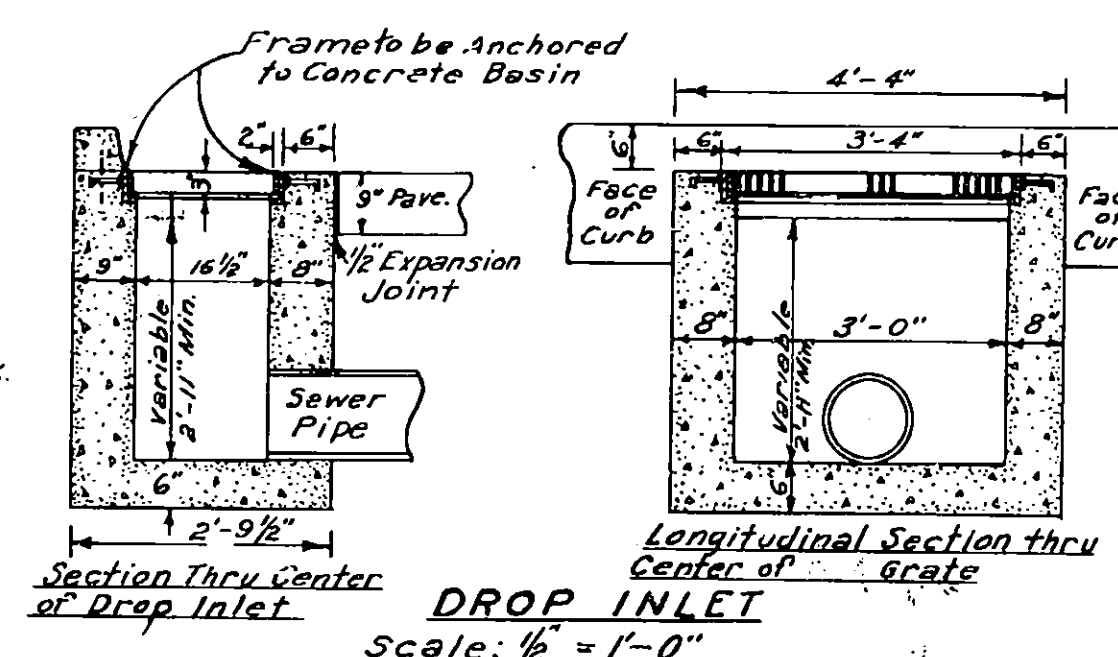
SPECIAL CATCH BASIN  
Scale:  $\frac{1}{8}" = 1'-0"$

NOTE: ~ The detail plans for the bridge structure to carry the Ontario Thruway over Hopkins Road were prepared before the Specifications dated January 2, 1947 were in effect and accordingly the item numbers shown on those plans are the item numbers shown in the specifications adopted January 2, 1942. However, it is the intent of this Contract that the work be performed and paid for in accordance with the Specifications of January 2, 1947 and the correct item numbers are shown on the first sheet of these plans.



Scale:  $3/8" = 1'-0"$

GUIDE POSTS			
STATION TO STATION	SIDE	LENGTH	No. POSTS
60+00	Rt.	Culvert	2
62+50 - 68+50	Rt.	600'	31
Total			33



### BILL OF MATERIALS FOR CULVERTS

STATION	STRUCTURES	REINF. CONC. CULV. PIPE				REINF. CONC. SEWER PIPE				MISC. MATERIALS
		12" DIAM. L.F.	16" DIAM. L.F.	24" DIAM. L.F.	42" DIAM. L.F.	12" DIAM. L.F.	15" DIAM. L.F.	18" DIAM. L.F.	48" DIAM. L.F.	
37+81	Standard Grate & Frame; 2 Manhole Covers & Frames; 876 Feet of 24" Reinf. Conc. Culv. Pipe; 14 Ft. $\frac{3}{4}$ " Bars			876						165
41+00	2 Spec. Grates & Frames; 76 Feet 12" Reinf. Conc. Culv. Pipe 320 Feet 12" Reinf. Conc. Sewer Pipe.	76			320	76	76			62
44+24	2 Sp.G.F.F; 76 Ft.-12" R.C. Sewer Pipe; 76 Ft.-15" R.C. Sewer Pipe									62
45+02	2 Sp.G.F.F; 76 Ft.-42" R.C. Culv. Pipe; 616 Ft.-42" R.C. Sewer Pipe 1 M.H. Cover & Frame; 18 Ft. $\frac{3}{8}$ " # Bars									62
45-80	2 Sp.G.F.F; 76 Ft.-12" R.C. Sewer Pipe; 76 Ft.-15" R.C. Sewer Pipe					76	76			121
49-02	2 Sp.G.F.F; 76 Ft.-12" R.C. Culv. Pipe; 320 Ft.-12" R.C. Sewer Pipe	76			320					62
52+32	2 Spec. Grates & Frames.									62
56+16	2 Spec. Grates & Frames; 76 Feet 12" Reinf. Conc. Culv. Pipe 412 Feet 18" Reinf. Conc. Sewer Pipe.	76						412		62
57+39	1 Spec. Grate & Frame; 124 Feet 15" Reinf. Conc. Sewer Pipe						124			31
60+38	1 Spec. Grate & Frame; 296 Feet 15" Reinf. Conc. Sewer Pipe						296			31
61+05	1 Standard Grate & Frame; 80 Feet 18" Reinf. Conc. Culv. Pipe 116 Feet 18" Reinf. Conc. Sewer Pipe		80					116		45
62+65	1 Standard Grate; 196 Feet 12" Reinf. Conc. Sewer Pipe				196					18
		228	80	876	76	388	572	528	676	284

BAR REINFORCEMENT FOR STRUCTURES      ONTARIO THRUWAY-HOPKINS ROAD

Station	Culvert	T&B Slabs A"- BARS	Barrel Bent Bars	Bars	1/2 φ Long Bars	1/2 φ Dowels Cork Basins	Apron Wings 1/8" φ Bars Cut-in Field	Slabs on Stem Culv. Reinforced Bottom Slab	Short Bars Cut-in Field	TOTAL LIN. FT.	BARS		
										Size 3/4" φ	Size 1/2" φ	Size 3/4" φ	Size 1" φ
52+12	4W x 3H CONC. BOX 14'6" LONG 9'0" HIGH	1/2" φ Bars 6 CTS 5 @ 3'-0" End Sections @ 3'-4 1/2"	1/2" - 3/8" φ 7 @ 3'-10" 1/2" - 3/8" φ	1/4" φ 5'-4"	2 Mid-Sections 4 @ 3'-0"	20-Bent Anchels 2'-0" Eng. Bend in field	138 L.F.	1" φ 16 @ 7'-1"		6101'-4"	6783'-10"		
		Modified Pier & Bars End Sections Top 3'-0" 2 @ 4'-11" 2 @ 3'-9" 2 @ 2'-7" 2 @ 2'-0" Bottom Slab 2 @ 5'-3" 2 @ 4'-8" 2 @ 4'-11" 2 @ 3'-6" 2 @ 2'-11" 2 @ 2'-4"			2 End Sections 6 @ 3'-2" 6 @ 3'-3" 6 @ 3'-7" 4 @ 3'-6" 4 @ 3'-11" 4 @ 3'-4" 4 @ 3'-1 1/2" 4 @ 3'-0" 4 @ 3'-11" 4 @ 3'-11" 4 @ 3'-10"	Straight Dowels 1 @ 1'-6"							
Sta. 2250 + 52 = 42 + 60.6	Bridge	Pier Footings All Straight Bars PB Bars 1" φ 5 @ 6'-0"	PF Bars 3/4" φ 48 @ 13'-2" PG " 3/4" φ 56 @ 7'-8"									1061'-4"	576'-0"

DETOUR:~ When work is in progress between Station 31 and 55 the highway will be closed to traffic. When work is in progress between Station 55 and 62 the highway will be left open to traffic one side at a time, that is, while work is being done on the two right hand lanes, the left side will be open and vice versa. Detour will be over Buckley Road (County Road No. 48) and Seventh North Street (County Road No. 45).

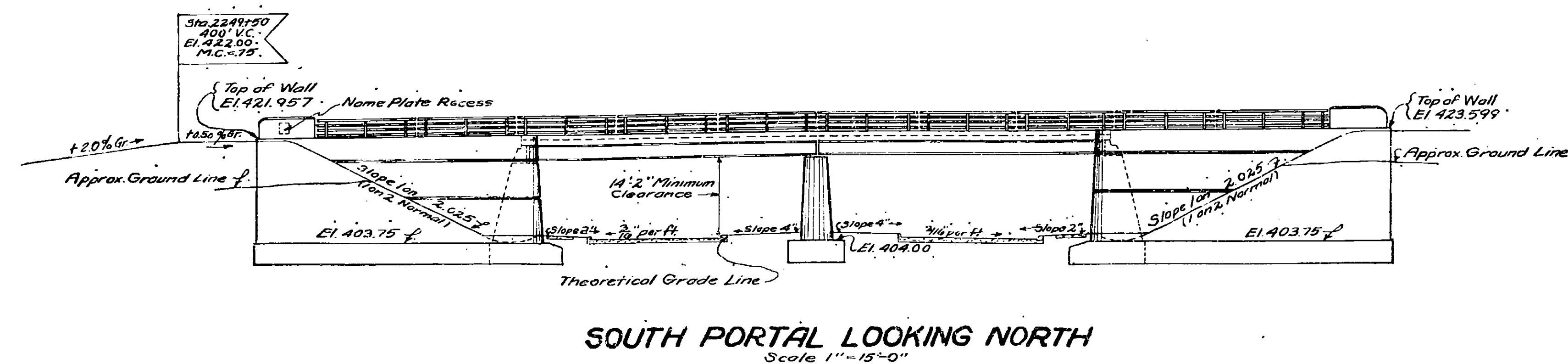
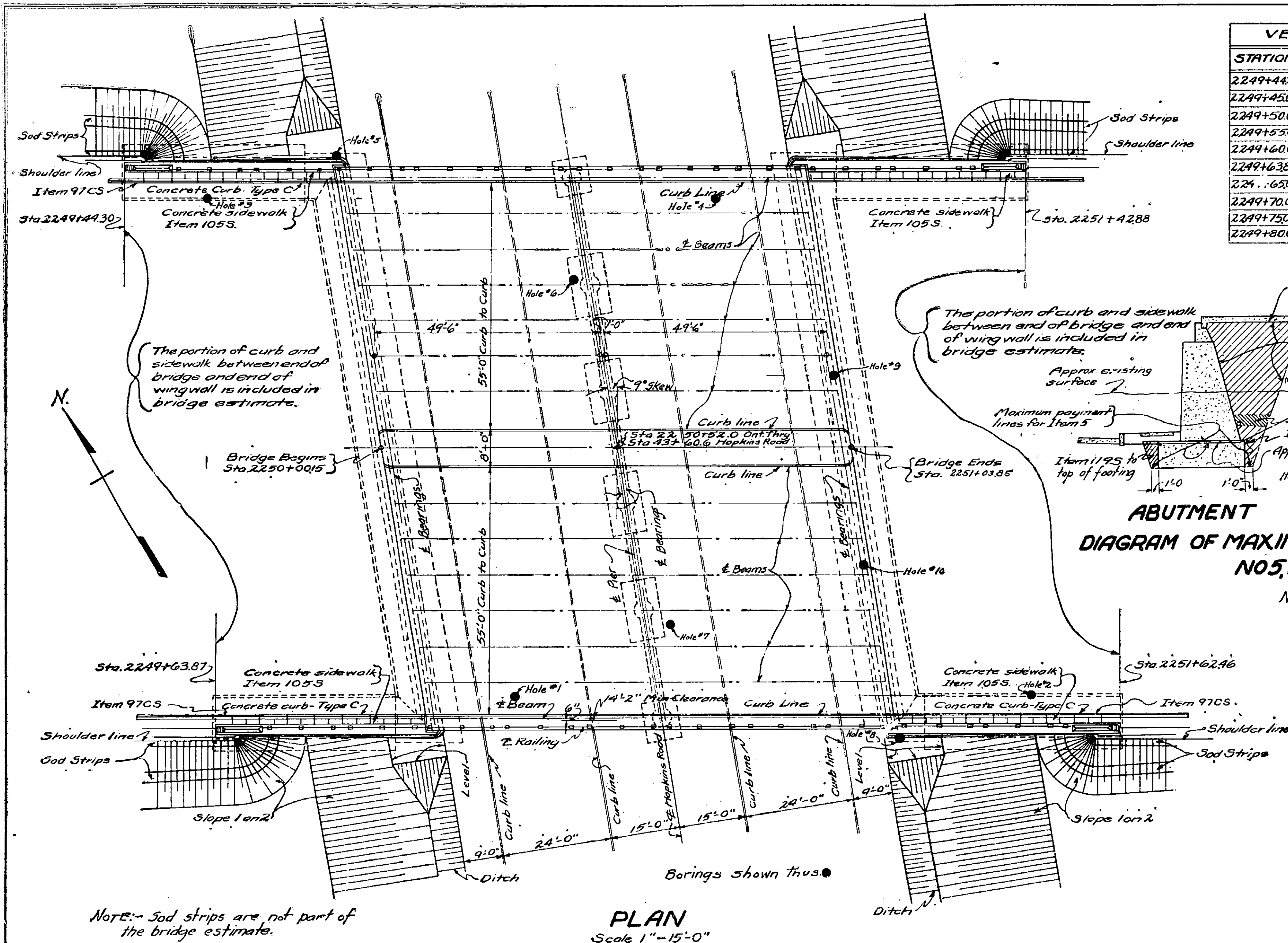
Prepared pursuant to the  
Highway Law and recommended by  
[Signature]  
Engineer District No. 3



VERTICAL CURVE ELEVATIONS ON TOP OF WALLS AND FASCIA									
STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
2249+44.30	421.715	2249+85.00	422.202	2250+35.00	422.714	2250+85.00	423.193	2251+35.00	423.458
2249+45.00	421.724	2249+90.00	422.257	2250+40.00	422.760	2250+90.00	423.170	2251+40.00	423.485
2249+50.00	421.787	2249+95.00	422.312	2250+45.00	422.805	2250+95.00	423.205	2251+42.88	423.500
2249+55.00	421.849	2250+00.00	422.365	2250+50.00	422.850	2251+00.00	423.240	2251+45.00	423.512
2249+60.00	421.910	2250+05.00	422.418	2250+55.00	422.893	2251+05.00	423.274	2251+50.00	423.531
2249+63.87	421.957	2250+10.00	422.470	2250+60.00	422.935	2251+10.00	423.307	2251+55.00	423.562
2249+65.00	421.970	2250+15.00	422.520	2250+65.00	422.977	2251+15.00	423.339	2251+60.00	423.587
2249+70.00	422.030	2250+20.00	422.570	2250+70.00	423.017	2251+20.00	423.370	2251+62.46	423.599
2249+75.00	422.088	2250+25.00	422.619	2250+75.00	423.057	2251+25.00	423.400		
2249+80.00	422.145	2250+30.00	422.667	2250+80.00	423.095	2251+30.00	423.430		

Note  
For Estimate of Quantities for the portion of  
the work in this contract see other specs.

NOTE:  
THIS CONTACT INDICATES  
ONLY THE PORTION OF  
THE STRUCTURE BEHIND  
THE TOWER. FOR THE FULL



Made by C. Hall  
 Traced by Miss Helen Court  
 Checked by Mr. Morn  
 Reviewed by Mr. Morn

**HOPKINS ROAD BRIDGE**  
**STA. 2250+52**  
**LAYOUT**

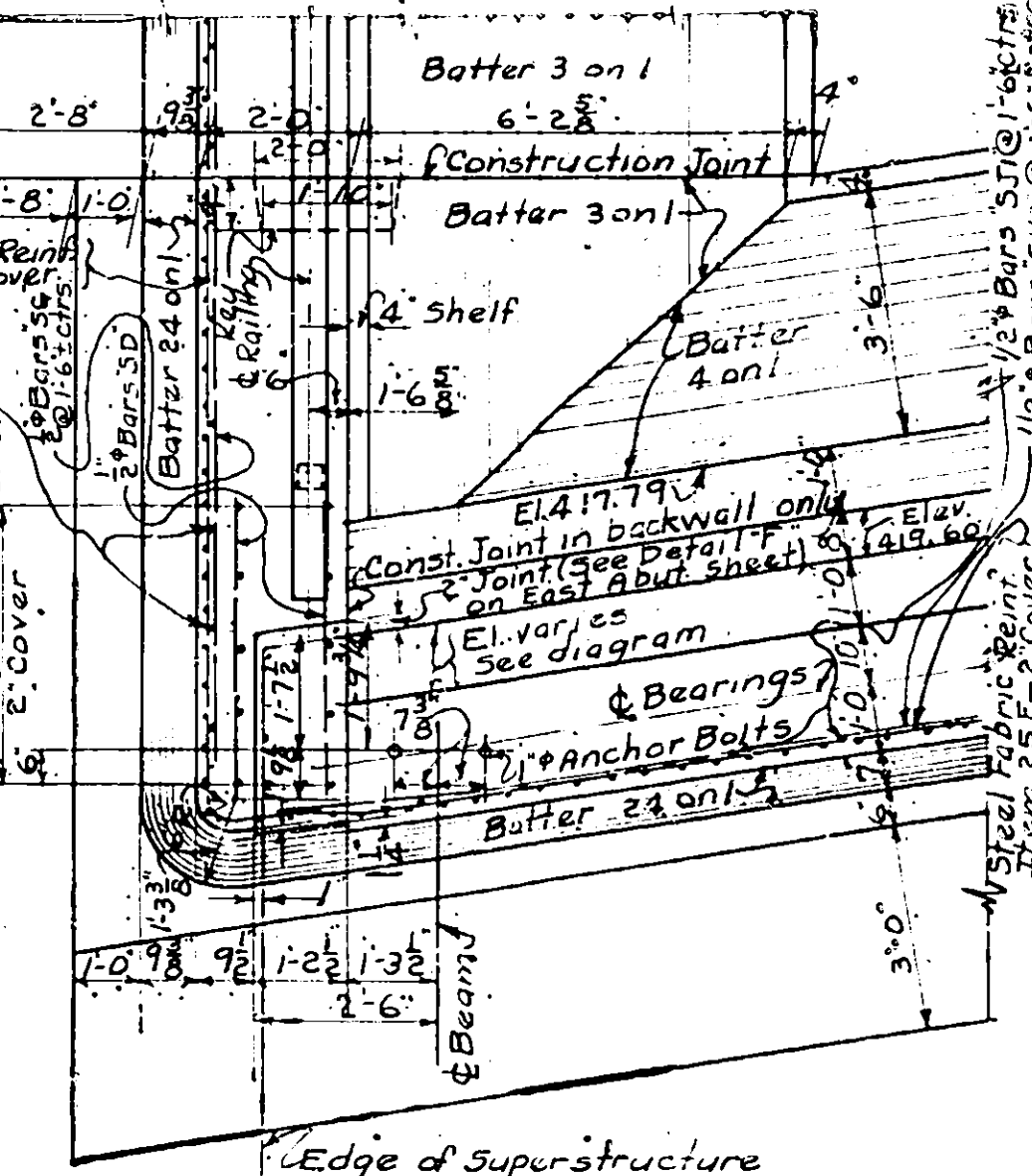


COUNTY	SHEET NO.	TOTAL SHEETS
ONONDAGA	4	8
ONTARIO THRUWAY		
From	To	

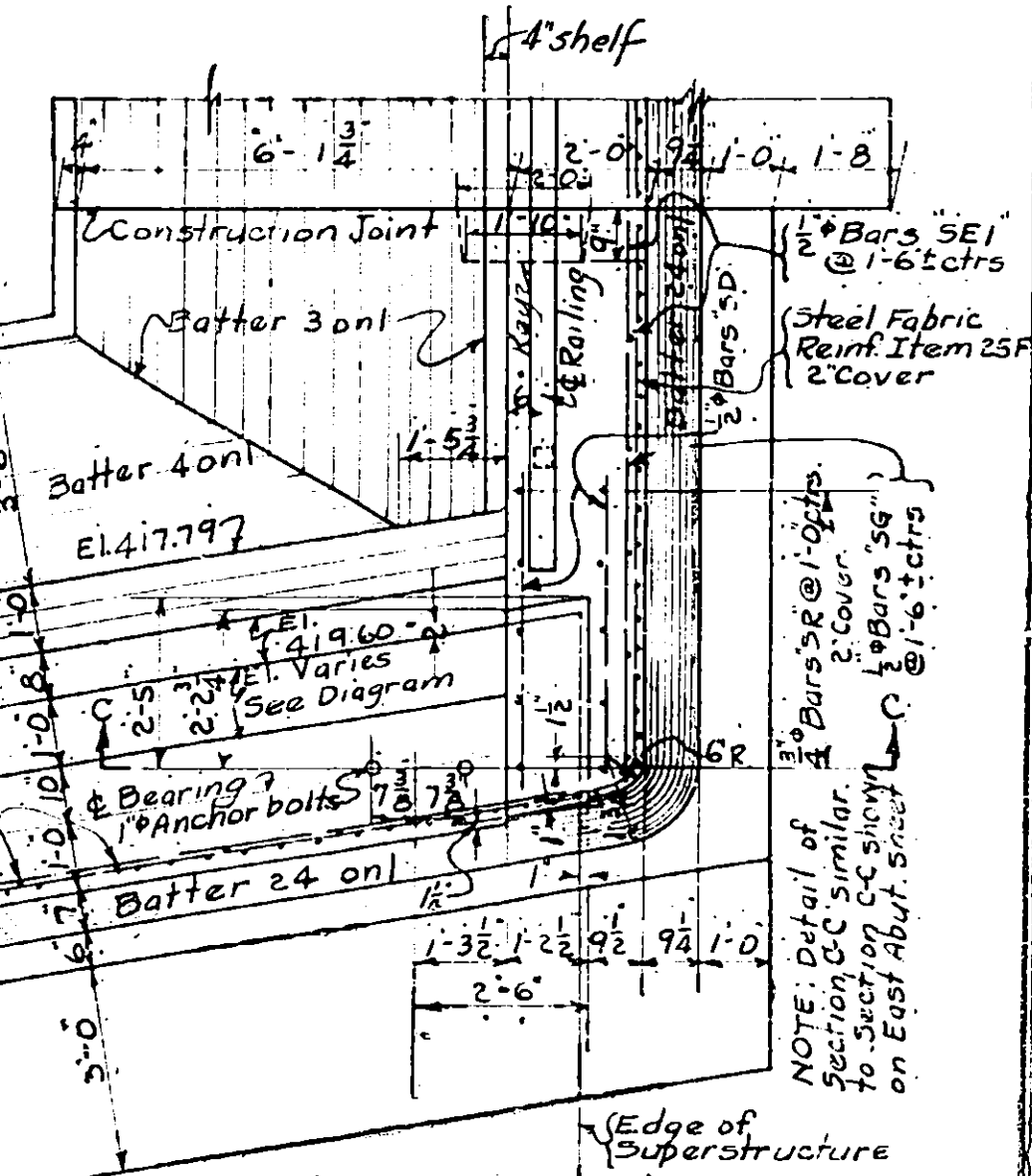
NOTE: For details of sidewalk and curb see East Abutment Sheet.

### KEYWAYS IN ABUTMENT JOINTS VERTICAL

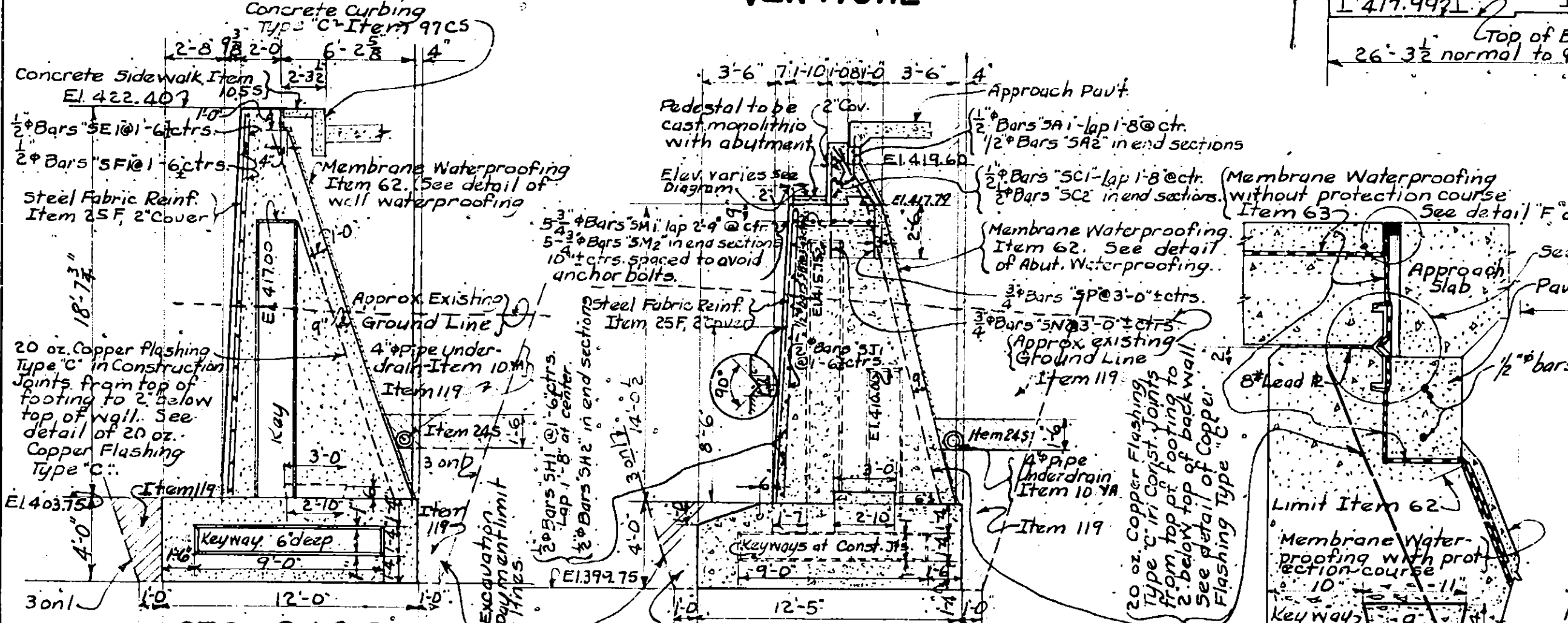
### ELEVATIONS ON BACKWALL & BRIDGE SEAT



PLAN SOUTH WEST CORNER  
Scale 3/8" = 1'-0"



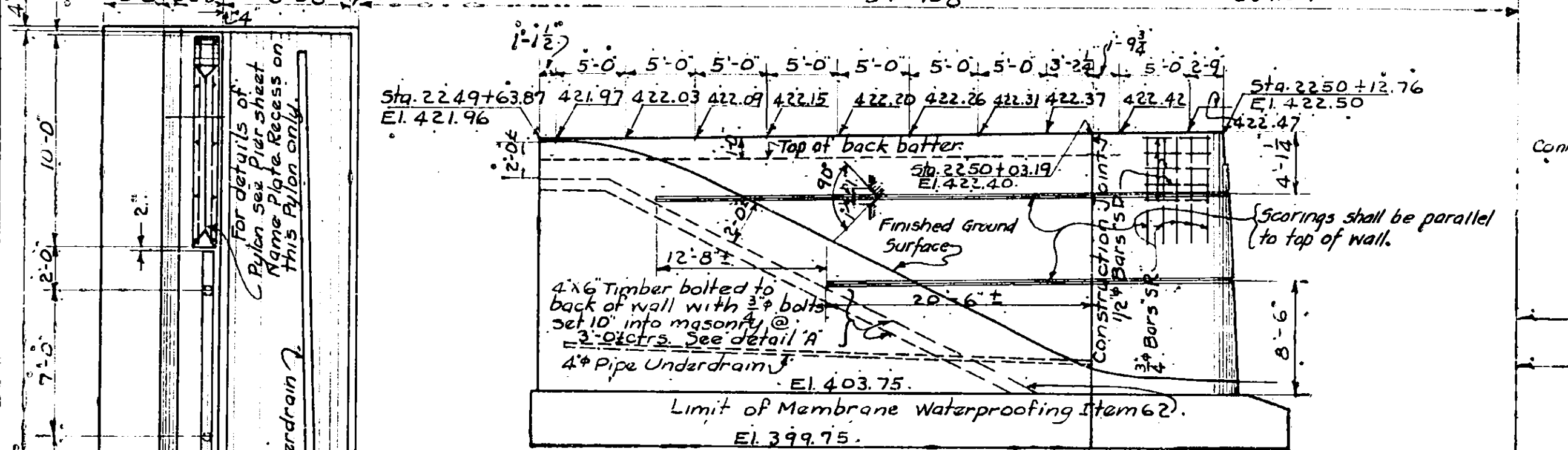
PLAN NORTH WEST CORNER  
Scale 3/8" = 1'-0"



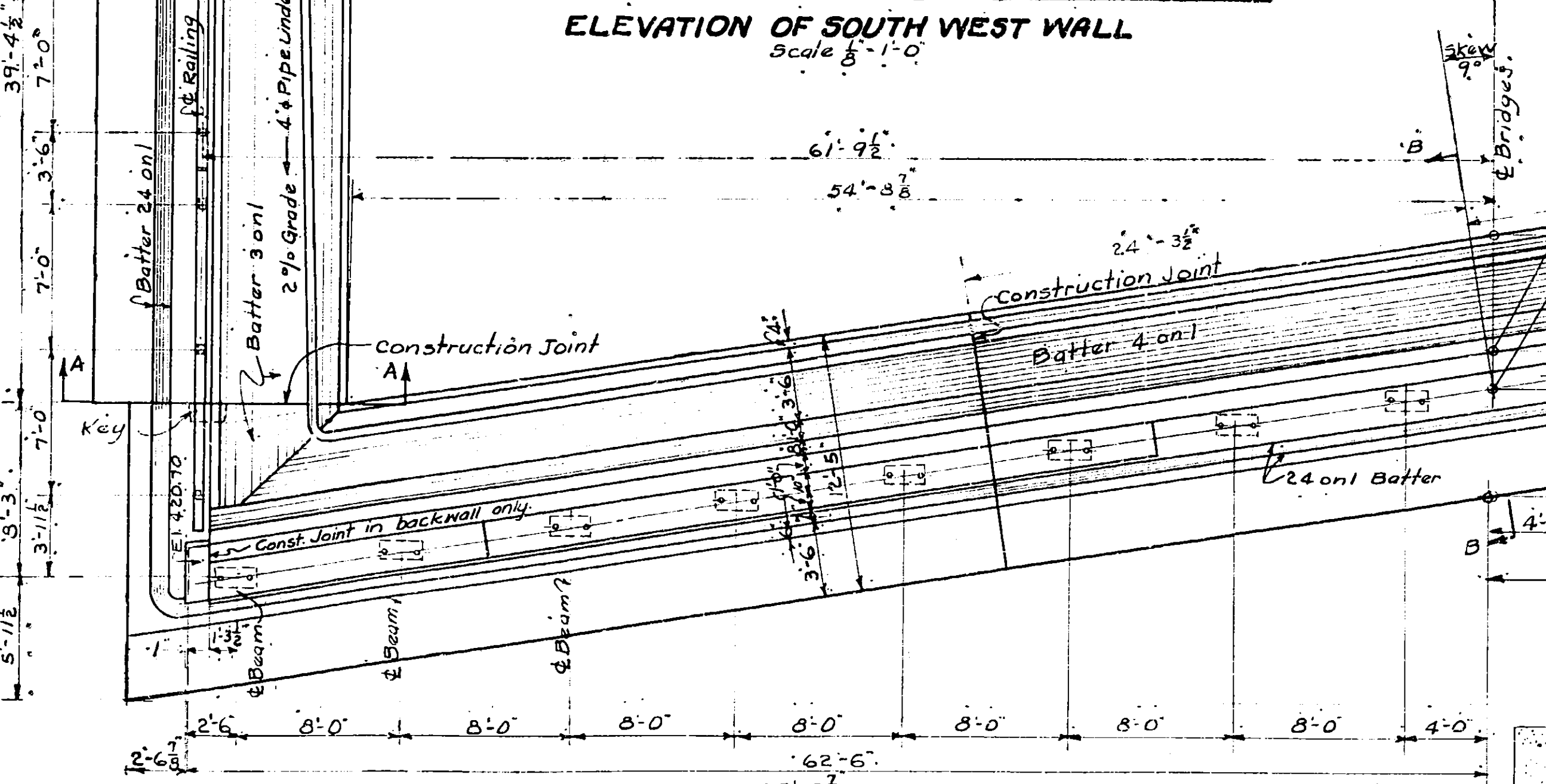
SECTION A-A  
Scale 3/16" = 1'-0"

SECTION B-B  
Scale 3/16" = 1'-0"

### DETAIL OF ABUT. WATERPROOFING

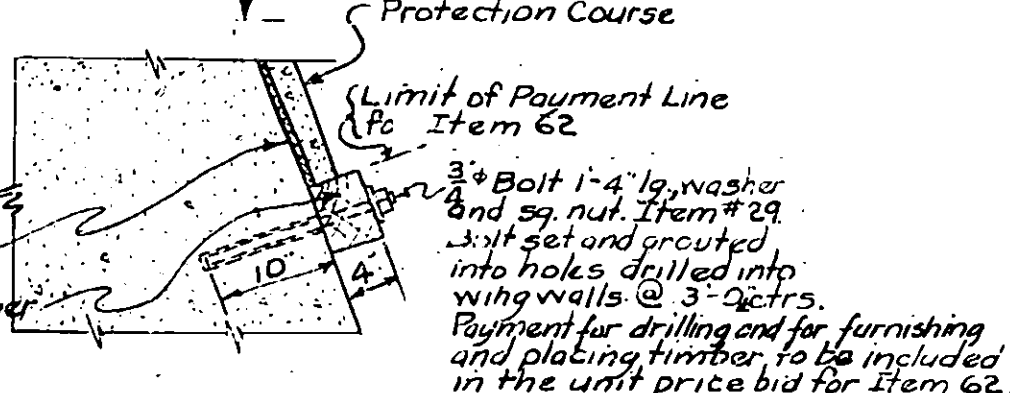


ELEVATION OF SOUTH WEST WALL  
Scale 3/8" = 1'-0"

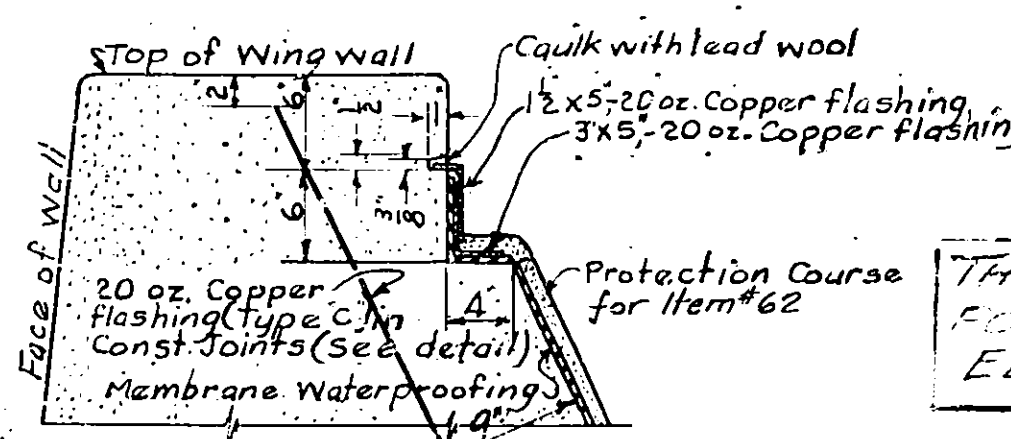


PLAN OF WEST ABUTMENT AND WALLS  
Scale 1/16" = 1'-0"

### DETAIL "A"



### DETAIL OF WALL WATERPROOFING



### 20 OZ. COPPER FLASHING-TYPE "C"

NOTE: 4" C.I. Pipe under North wingwall shall comply with specifications for Item #13. Payment for this material, however, will be made at the price per lin. ft. bid for 4" pipe underdrain.

THIS CONTRACT SHALL BE ONLY THE PORTION OF THE STRUCTURE BELOW ELEV. 408.15

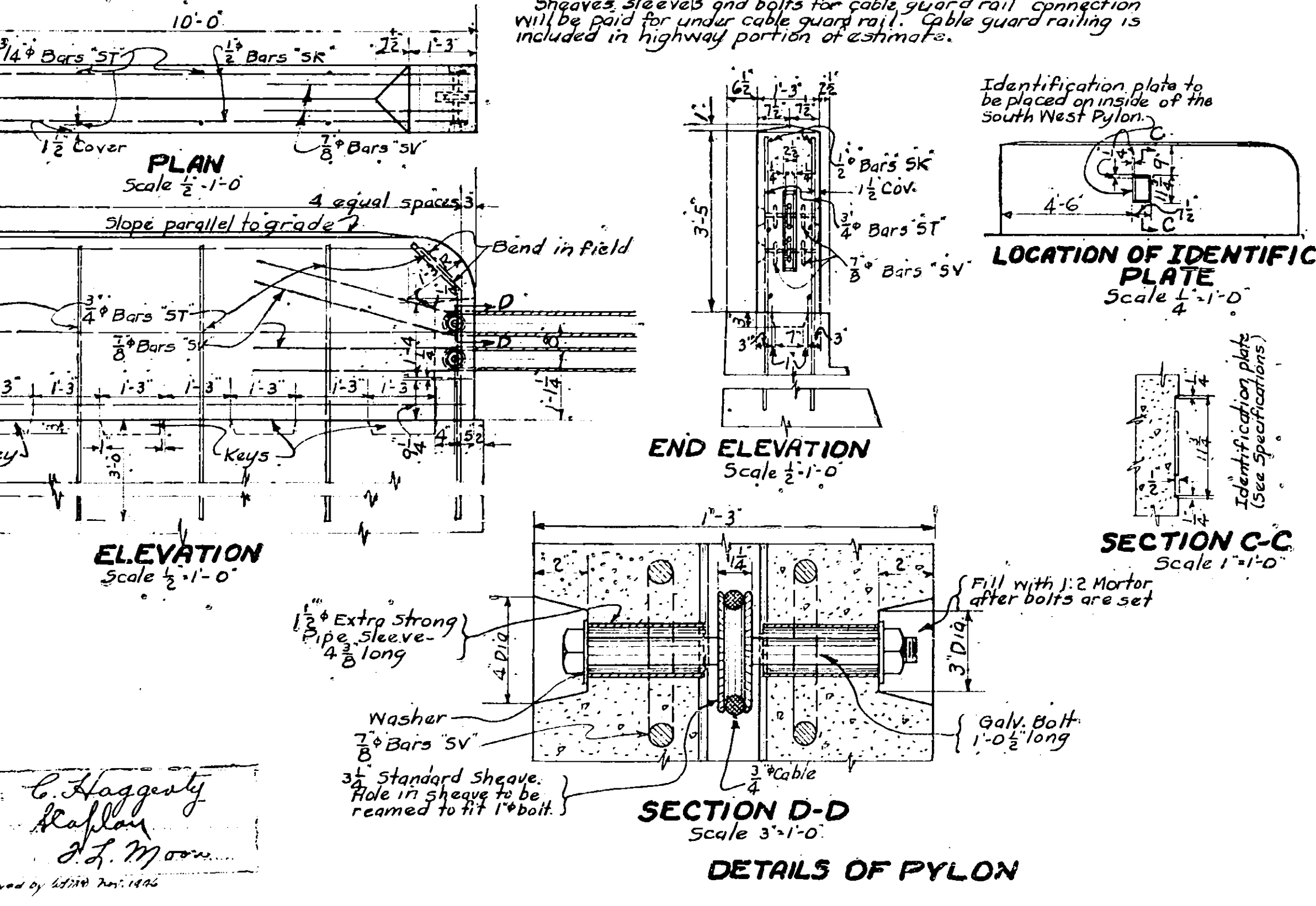
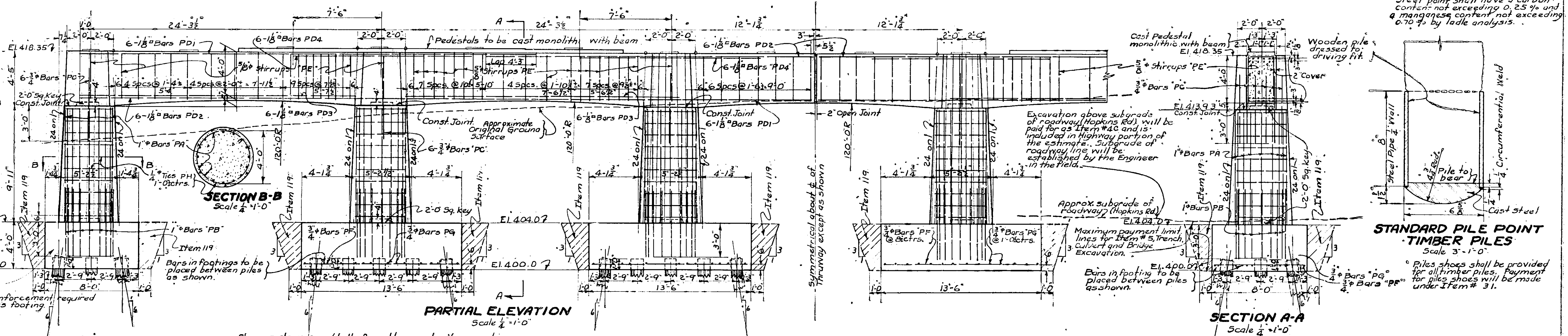
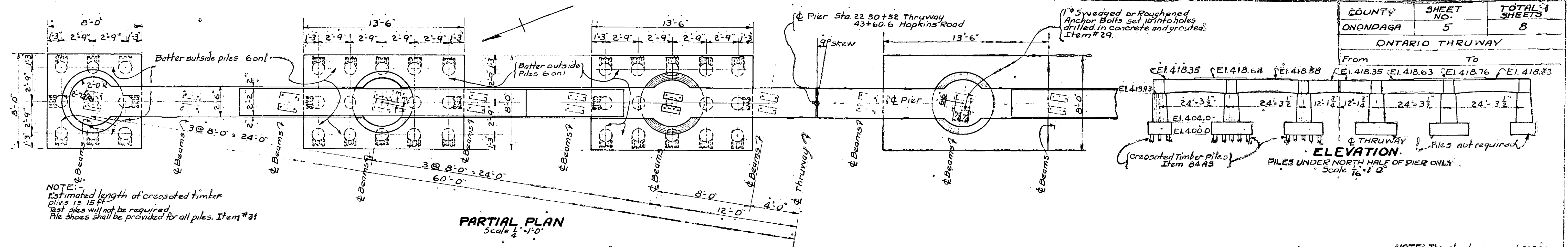
HOPKINS ROAD BRIDGE  
STA. 2250 + 52  
WEST ABUTMENT

Michler  
Railway  
P. H. Mow

NOTE: Except as follows, all concrete shown on this sheet shall be Item 20VS:  
Sidewalk shall be Item 105 S  
Curb shall be Item 97CS  
Pylons shall be Item 19VS



COUNTY	SHEET NO.	TOTAL SHEETS
ONONDAGA	5	8
ONTARIO THRUWAY		
From	To	
E1418.35	E1418.63	E1418.76



**SUBSTRUCTURE NOTES**

Concrete shall be classified as follows:-  
 Abutments and wingwalls Item 20V5  
 Pier, including footings Item 18V5  
 Pylons Item 18V5  
 Curb Item 10S5  
 Side walk Item 10S5

Payment for furnishing and placing anchor bolts and nuts will be made under Item #29.  
 Bridge seat areas directly under ends of beams shall be bush hammered for perfect bearing if directed by the Engineer in the field.  
 Max. loads per square foot under foundations do not exceed the following:-  
 Piers 2 Tons  
 Abutments 2 Tons  
 Wings 2 Tons

The above loads are without wind or traction.  
 All vertical construction joints in abutments and between abutments and wingwalls above top of footings shall receive a heavy coating (not less than two applications) of Item #64. Bituminous material used shall comply with specifications for Item #68 or #75 and shall be applied only to a dry surface. Bituminous material shall not be placed closer than two inches from the face of the wall. In addition copper flashing type C shall be placed in the back of the wall as shown on the plans or ordered by the Engineer.  
 For design purposes, the assumed load per pile does not exceed 15 Tons.

EAST & WEST ABUTMENTS				PIERS			
Mark	No.	Size	Length	Mark	No.	Size	Length
SA	8	1/2"	37'-3"	PA	96	1"	9'-9"
SB	84	1/2"	4'-2"	PB	36	1"	6'-0"
SC	20	1/2"	37'-3"	PC	36	3/4"	6'-0"
SD	32	1/2"	25'-0"	PD1	24	1/8"	38'-6"
SE	68	1/2"	19'-3"	PD2	24	1/8"	27'-6"
SF	36	1/2"	41'-10"	PD3	24	1/8"	23'-0"
SFI	26	1/2"	39'-0"	PD4	24	1/8"	15'-0"
SG	14	1/2"	8'-2"	PE	94	5/8"	12'-7"
SG1	14	1/2"	9'-0"	PF	48	3/4"	13'-2"
SG2	14	1/2"	8'-0"	PG	36	3/4"	7'-8"
SG3	14	1/2"	8'-10"	PH	60	1/4"	13'-6"
SH	20	1/2"	37'-3"	<b>SUPERSTRUCTURE</b>			
SH1	20	1/2"	25'-0"				
SI	23	1/2"	14'-9"	A1	744	5/8"	33'-9"
SI1	23	1/2"	13'-10"	A2	744	5/8"	27'-0"
SK	24	1/2"	9'-8"	B1	248	5/8"	34'-4"
SL	40	3/4"	6'-4"	B2	248	5/8"	27'-7"
SM	20	3/4"	37'-3"	C	680	1/2"	26'-8"
SN	42	3/4"	25'-5"	D	16	3/4"	27'-1"
SN1	42	3/4"	5'-9"	<b>STIRRUPS IN CURBS</b>			
SN2	42	3/4"	5'-3"				
SN3	42	3/4"	6'-0"	F	496	5/8"	4'-10"
SP	28	3/4"	7'-0"	<b>TRANSVERSE BARS (Full)</b>			
SP1	12	3/4"	5'-6"				
SR	8	7/8"	7'-7"				

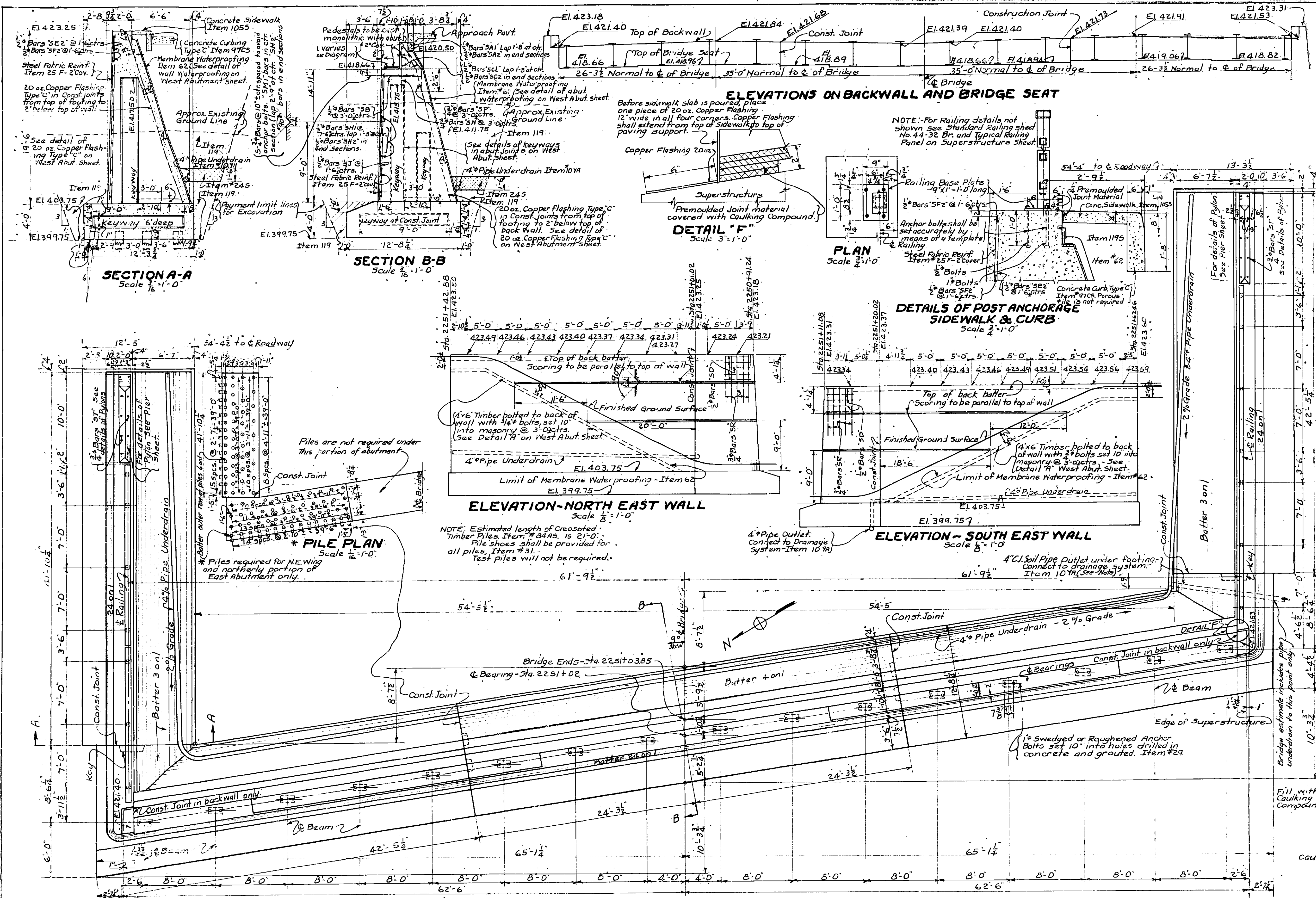
**NOTE:**  
 THIS CONTRACT INCLUDES ONLY THE PORTION OF THE BRIDGE BELOW ELEV. 404.0.

**HOPKINS ROAD BRIDGE**  
 STA. 22 50 + 52  
 PIERS

APPROVED  
 DEC 10 1948  
 J. H. Haggerty  
 J. L. Moore



COUNTY	SHEET No.	TOTAL SHEETS
ONONDAGA	6	8
ONTARIO THRUWAY		
From	To	



NOTE: 4" C.I. Pipe under south wingwall shall comply with specifications for Item #13. Payment for this material, however, will be made of the price per lin. ft. bid for 4" Pipe Underdrain.

NOTE: All concrete shown on this sheet shall be Item #2045 except sidewalk which shall be Item #1055. Curb which shall be Item #1705, and piers which shall be Item #1815.

Standard Sheet Br. 44-32R required for railing

**METAL CLIP**  
 Scale 3/8" = 1'-0"  
 Metal clip will be paid for under Item #29.

THIS CONTRACT INCLUDES THE DESIGN OF THE BRIDGE AND THE CONSTRUCTION OF THE BRIDGE.

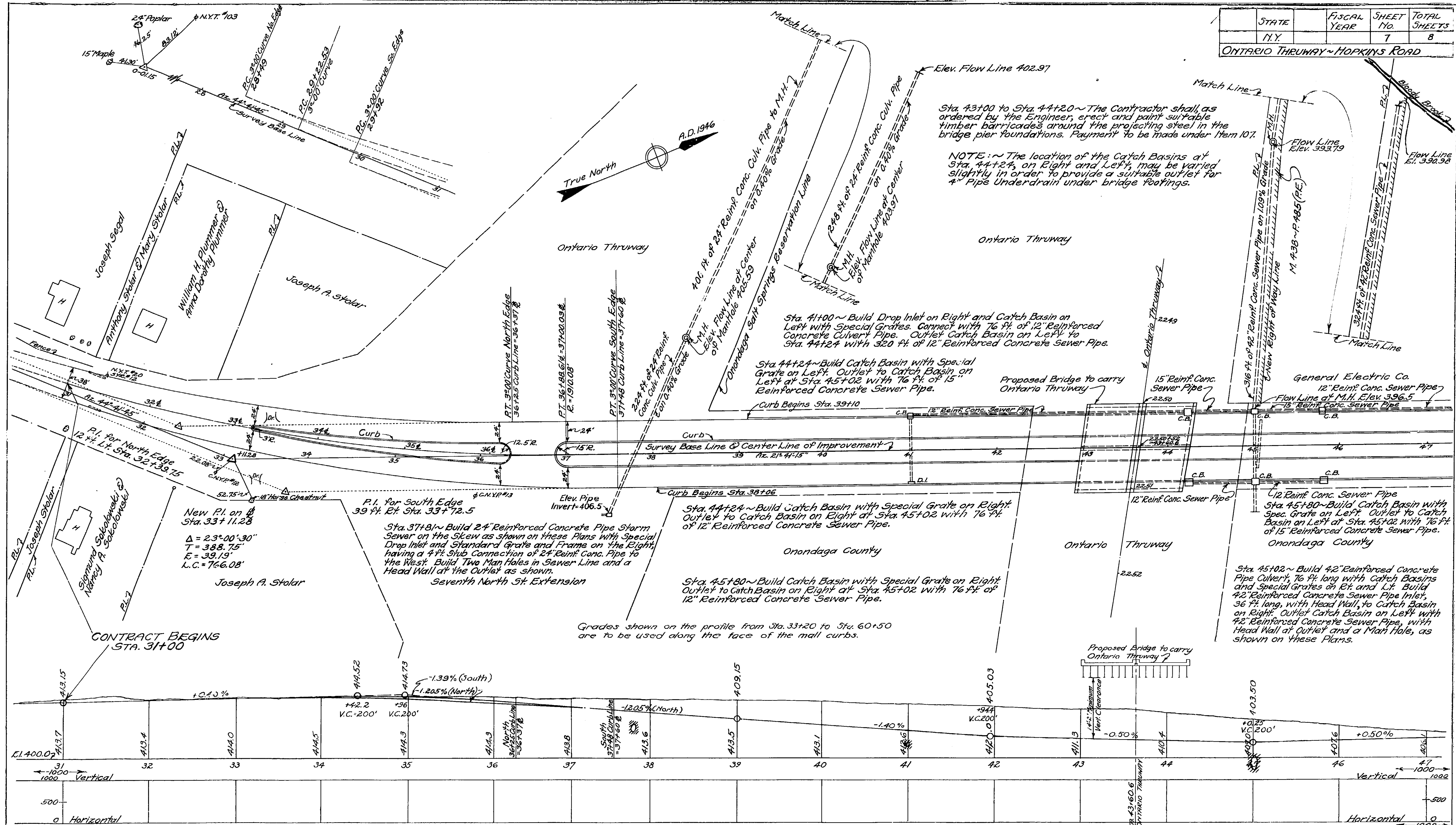
**HOPKINS ROAD BRIDGE**  
 STA. 2250 + 52  
 EAST ABUTMENT

APPROVED  
 DES. 10-1946  
 J. J. HOPKINS, DEPUTY CHIEF ENGINEER  
 Bridge, Water, and Structures



STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N.Y.		7	8

ONTARIO THRUWAY ~ HOPKINS ROAD



MINIMUM SIGHT DISTANCE GRAPH  
See Explaining Note on First Sheet of 50 ft. Scale Plans.

Made By W.J.H. Traced By P.F. Schubert Checked By P. Chase  
PLAN W.J.H. PROFILE R. Demaggio C.J. Fisher

Prepared pursuant to the  
Highway Law and recommended by  
8/11/47 Engineer District No. 3

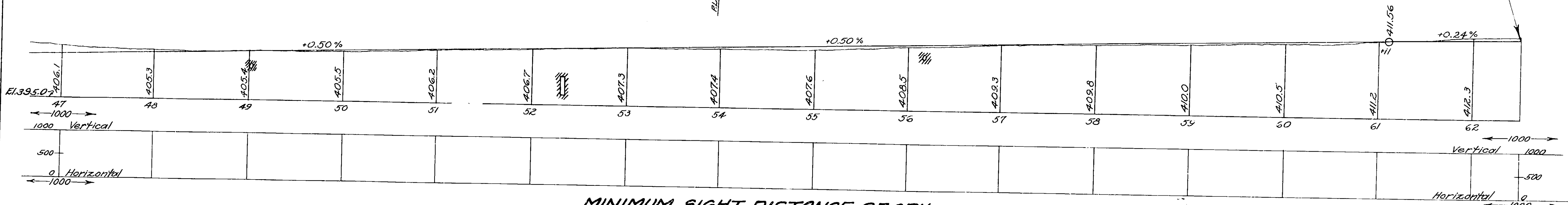
Sta. 49+02 ~ Build Drop Inlet on Rt. & Catch Basin on Lt. with Spec. Grates.  
Connect with 76 ft. of 12" Reinforced Concrete Culvert Pipe.  
Outlet Catch Basin on Left to Sta. 45+80 with 320 ft. of  
12" Reinforced Concrete Sewer Pipe.

Sta. 56+16 ~ Build 12" Reinforced Concrete Pipe Culvert, 76 ft. long, on a slight Skew. Build Drop Inlet on Right and Catch Basin on Left with Special Grates. Outlet Catch Basin on Left to Sta. 51+93 with 412 ft. of 18" Reinforced Concrete Sewer Pipe.

Sys. 60+38 ~ Build Catch Basin on Left with Special Grate. Outlet to Sys. 57+39 with 296 ft. of 15" Reinforced Concrete Sewer Pipe.

Sta. 61+05 ~ Build 18" Reinforced Concrete Pipe  
Ditch Crossing on Right, 80 ft. long, with a Drop  
Inlet and a Standard Grate and Frame, on Right  
of Base Line Sta. 61+45. Outlet ditch on Right at  
Sta. 62+65 with 116 ft. of 18" Reinforced Concrete  
Sewer Pipe. Connect with Drop Inlet at Sta. 61+45.

*Sta. 62+65 ~ Build Drop Inlet with a Sump on Left with Standard Grate. Outlet to Catch Basin at Sta. 60+38 with 196 ft. of 12" Reinforced Concrete Sewer Pipe.*



	Made By	Traced By	Checked By
PLAN	<u>W. J. H.</u>	<u>D. F. Luckert</u>	<u>C. J. Fisher</u>
PROFILE	<u>W. J. H.</u>	<u>R. Tarnagge</u>	<u>PD Chase</u>

Prepared pursuant to the  
Highway Law and recommended by  
M. R. McLean  
8/11/47 Engineer District No. 3