

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
HAN-15-14.68
HANCOCK COUNTY
CITY OF FINDLAY

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	STATE	

HANCOCK COUNTY
HAN-15-14.68

CONVENTIONAL SIGNS

STATE LINE	----
COUNTY LINE	----
TOWNSHIP LINE	----
SECTION LINE	----
CORPORATION LINE	----
FENCE LINE	-x-x-x-
CENTER LINE	o o o o o o o
POLE LINE	o o o o o o o
RAILROAD	----
GUARD RAIL, Proposed	o o o o o o o
GUARD RAIL, Existing	o o o o o o o
DRAIN PIPE, Proposed	----
DRAIN PIPE, Existing	----
PROPERTY LINE	-x-Pl-x- Pl-

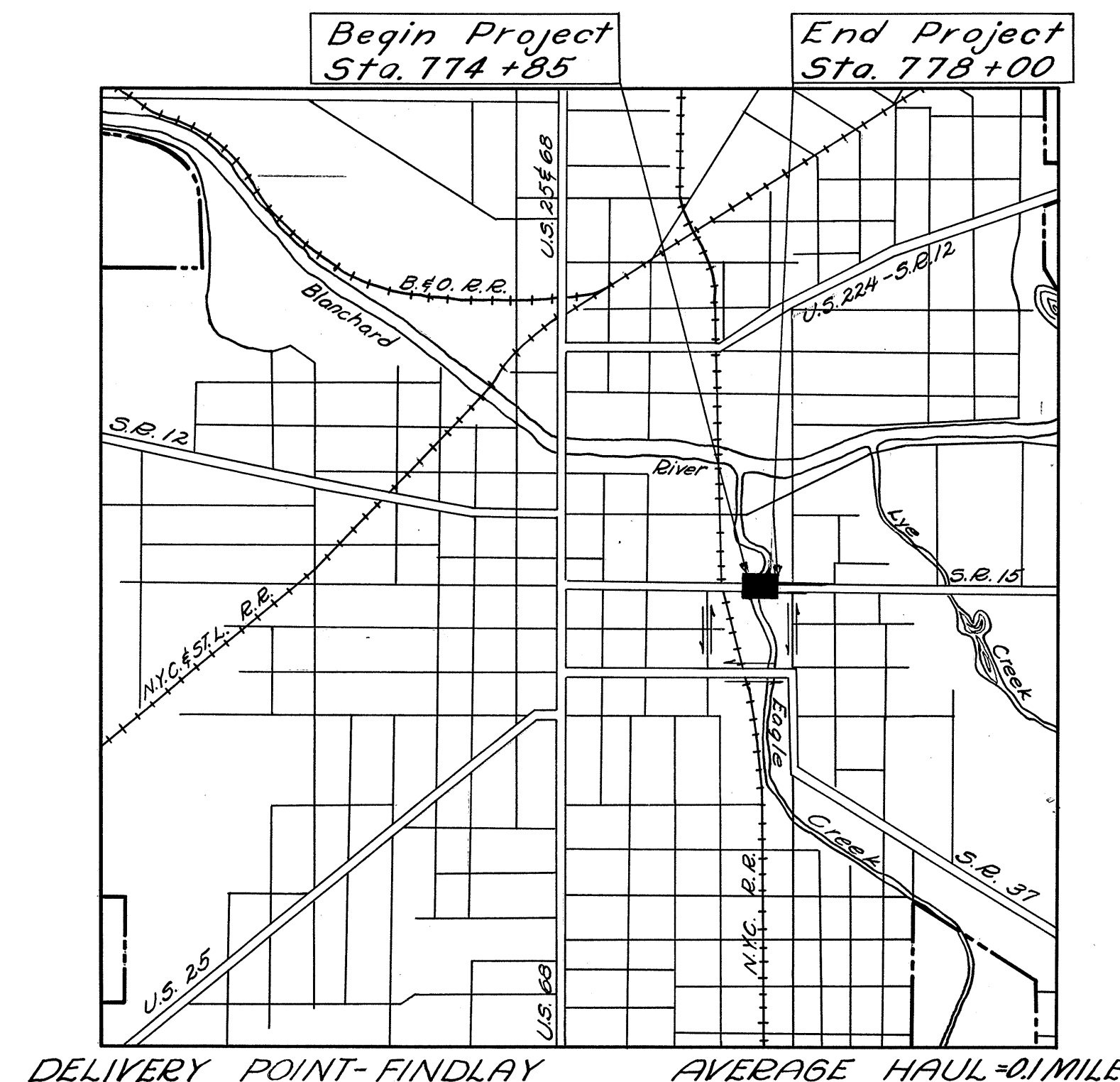
INDEX OF SHEETS

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PLAN & PROFILE	4
CROSS SECTION	5 & 6
STRUCTURES, Over 20' Span	7-13
RIGHT OF WAY PLAN	14

Revised As Built 8, 12, 13

LINE DATA

Begin Project Sta. 774+85
End Project Sta. 778+00
Additions or Deductions None
Gross Length = Net Length = 315.00 Lin. Ft. or 0.059 Mi.



LOCATION PLAN

SCALE 1" = 1500 FT.
PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
DETOURS

SCALES

PLAN 1 Inch = 50 Feet
PROFILE (Horizontal) 1 Inch = 50 Feet
PROFILE (Vertical) 1 Inch = 5 Feet
CROSS SECTIONS 1 Inch = 5 Feet

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio

I hereby approve these plans and declare that the making of this improvement will require the closing of the highway to traffic except as noted on Sheet 3 and detours will be provided as indicated on the plans.

Approved W. J. Heidhardt
Date: 8-25-55 Contractual Officer, City of Findlay

Approved W. J. Heidhardt
Date: 8-24-55 Division Deputy Director

Approved John J. Heesley
Date: 3-14-56 Deputy Director of Planning & Programming

Approved E. S. Preston
Date: 3-13-56 Engineer of Location & Design

Approved Richard O. Oxt
Date: 3-9-56 Engineer of Bridges

Approved W. J. Heidhardt
Date: 3-13-56 Deputy Director of Design & Construction

Approval W. J. Heidhardt
Date: 3-14-56 First Assistant Director

Approval W. J. Heidhardt
Date: 3-20-56 Director of Highways

CONSTRUCTION
BUREAU
MAR 19 1959
GROUND PHOTOGRAPH

STANDARD DRAWINGS

DRAWING	DATE	DRAWING	DATE	DRAWING	DATE
T.J.	2-23-56	T-35	1-2-56		
L.J. N ^o 1	7-1-55	AS-1-54	12-1-54		
I-12	7-1-54				
G-7.07	1-2-53				
RI-1	1-3-55				
DR-1	1-3-55				

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE	NUMBER	DATE
5	6-8-55		
M-110.27	9-9-52		

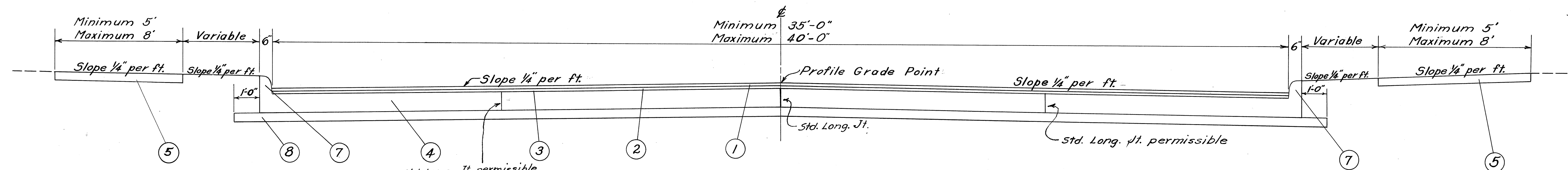
FILE No. HAN-15-14.68
DATE OF LETTING _____ 195____
CONTRACT _____

TYPICAL SECTION TYPE T-35 on B-70

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

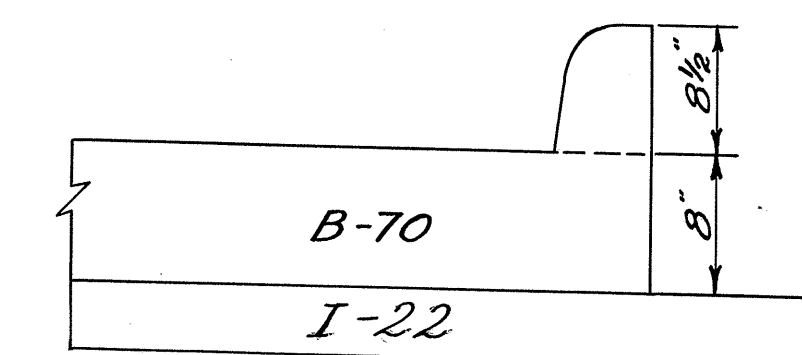
HANCOCK COUNTY
HAN - 15 - 14.68

2
14



The above Typical Section applies from Sta. 774+85 to Sta. 775+41.29 = 56.29 Lin. Ft.
Sta. 776+42.89 to Sta. 777+00 = 57.11 Lin. Ft.
Total = 113.40 Lin. Ft.

- ① Item T-35, 1 1/4" Asphaltic Concrete Surface Course, Type C (70-80)
- ② Item B-35, 1 1/4" Asphaltic Concrete Leveling Course (70-80)
- ③ Item T-30, Bituminous Tack Coat, Sec. M-5.5, MS-2 or RS-1 or Sec. M-5.2, RC-1 or RC-2, applied at the rate of 0.10 gal. per sq. yd. (See Note in Proposal).
- ④ Item B-70, 8" Portland Cement Concrete Base Course
- ⑤ Item I-13, 4" Sidewalks
- ⑦ Item I-12, Concrete Curb, Type 2B, Standard.
- ⑧ Item I-22, 4" Subbase, Grading "C" or "D".



For dimensions not shown
see Std. Constr. Drawing I-12
DETAIL OF CONCRETE CURB

(03161002)

Gas - Ohio Fuel Gas Co.
P - Central Ohio Light & Power Co.
S - Ohio Bell Telephone Co.
Water & Sewer - City of Findlay.

NOTE: All elevations refer to U.S.G.S. datum.

EXISTING STRUCTURE
TYPE PLATE GIRDER
SPAN 62'-4"
ROADWAY 33'
LOADING 5-31-46
TWO 11" SIDEWALKS (L.L. Red 55%)

PROPOSED STRUCTURE
TYPE: Continuous reinforced conc.
slab on reinforced concrete
substructure.
SPAN: 2 @ 35' % bearings
RDWY: 40' f/f of curbs
SIDEWALKS: 2 @ 8'-0"
LOAD FREQUENCY: CF = 400(51)
SKEW: 20° L.F.
WEARING SURFACE: Bituminous
APPROACH SLABS: A5-1-54 (5' long)
ALIGNMENT: Tangent

Sta. 777+18.5 - 3.5' Lt. Sanitary
Manhole to be adjusted to
grade by the City of Findlay.

End Project
Sta. 778+00

HANCOCK COUNTY
HAN-15-14.68

SIDEWALK "W"

Ref. No.	Station		Side Removal & Disposal of Existing Sidewalk	E-8 Sq. Ft.	I-13 Concrete Sq. Ft.	I-13 Concrete Steps Lin. Ft.
	From	To				
1-W	774+85	775+08	Lt.	104	84.0	
2-W	774+85	775+48.83	Rt.	408	323.9	
3-W	775+23.5	775+66.66	Lt.	*366	243.1	
4-W	776+17.52	776+57	Rt.	80	226.7	
5-W	776+35.35	777+00	Lt.	562	422.9	**31
6-W	776+77	777+00	Rt.	92	103.5	
Total				1612	1404.1	31

* includes sidewalk through Drive 1-A
** 7" riser - 18" tread

SIDE APPROACHES "A"

Ref. No.	Station	Side	E-8 Removal & Disposal of Existing Pavement Sq. Yd.	T-70 8" Portland Cement Concrete Pavement Sq. Yd.
1-A	775+17.5	Lt.		30
2-A	776+71.5		28	27
Total			28	57

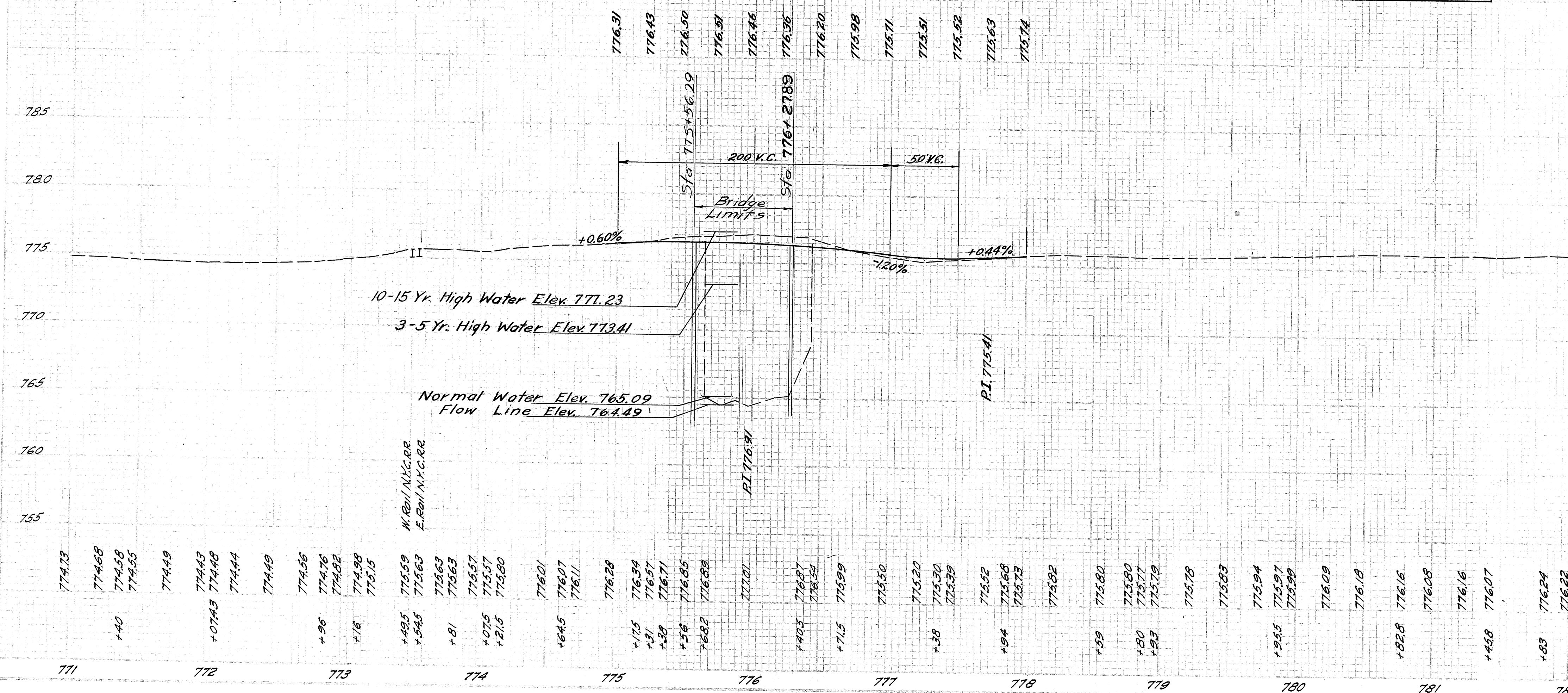
Total Earthwork Quantities
Excavation 98 Cu. Yd.
Embankment 467 Cu. Yd.
Emb. + 20% 560 Cu. Yd.

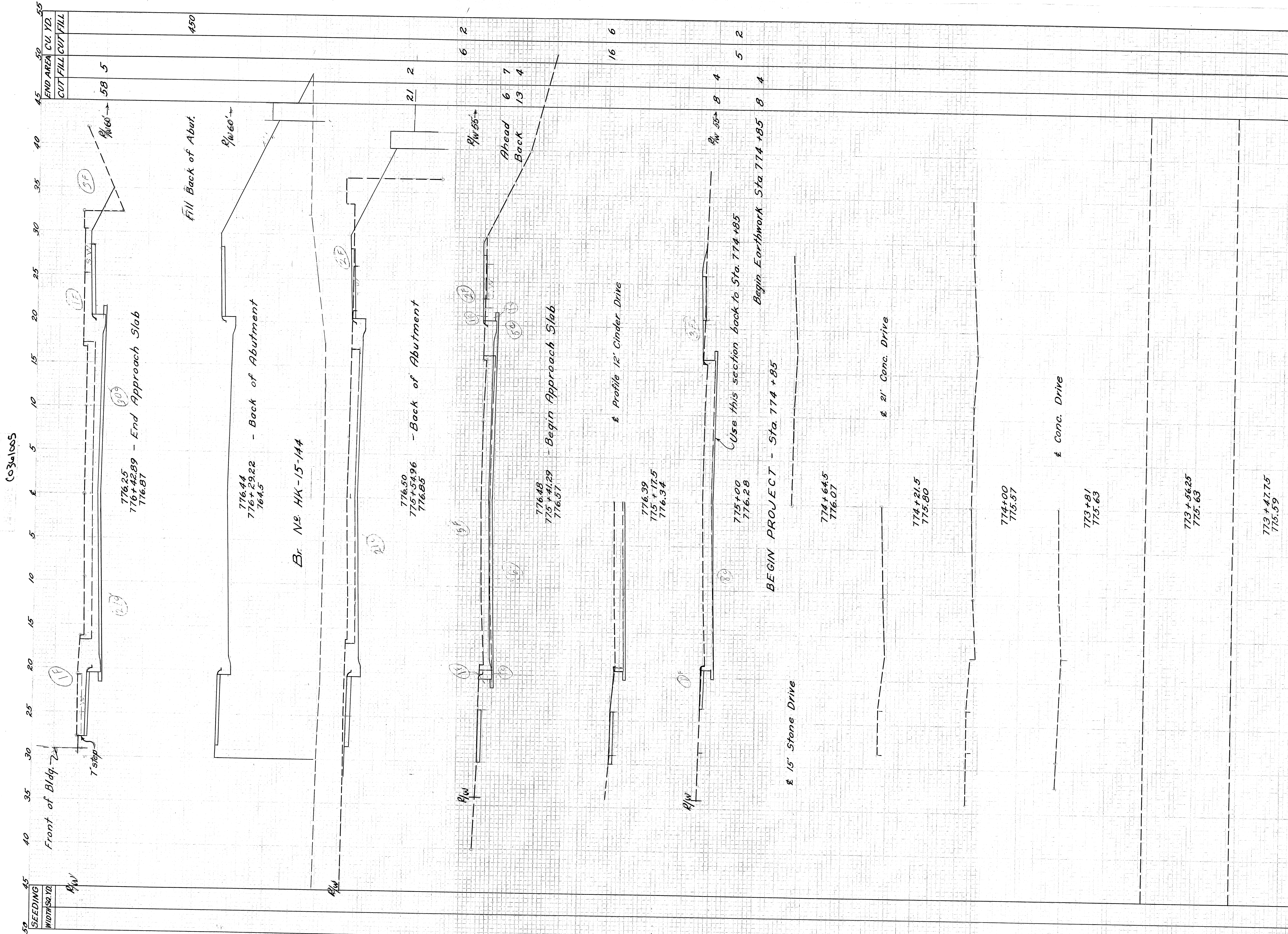
B.M. Sta. 771+69.7, 27' Lt.
S.W. cor. Bottom Step Ent. to
Midland Groc. Elev. 775.16

"X" S.E. cor. W. Abutment
Bridge (HK) = 15' = 14.4
Elev. 777.18

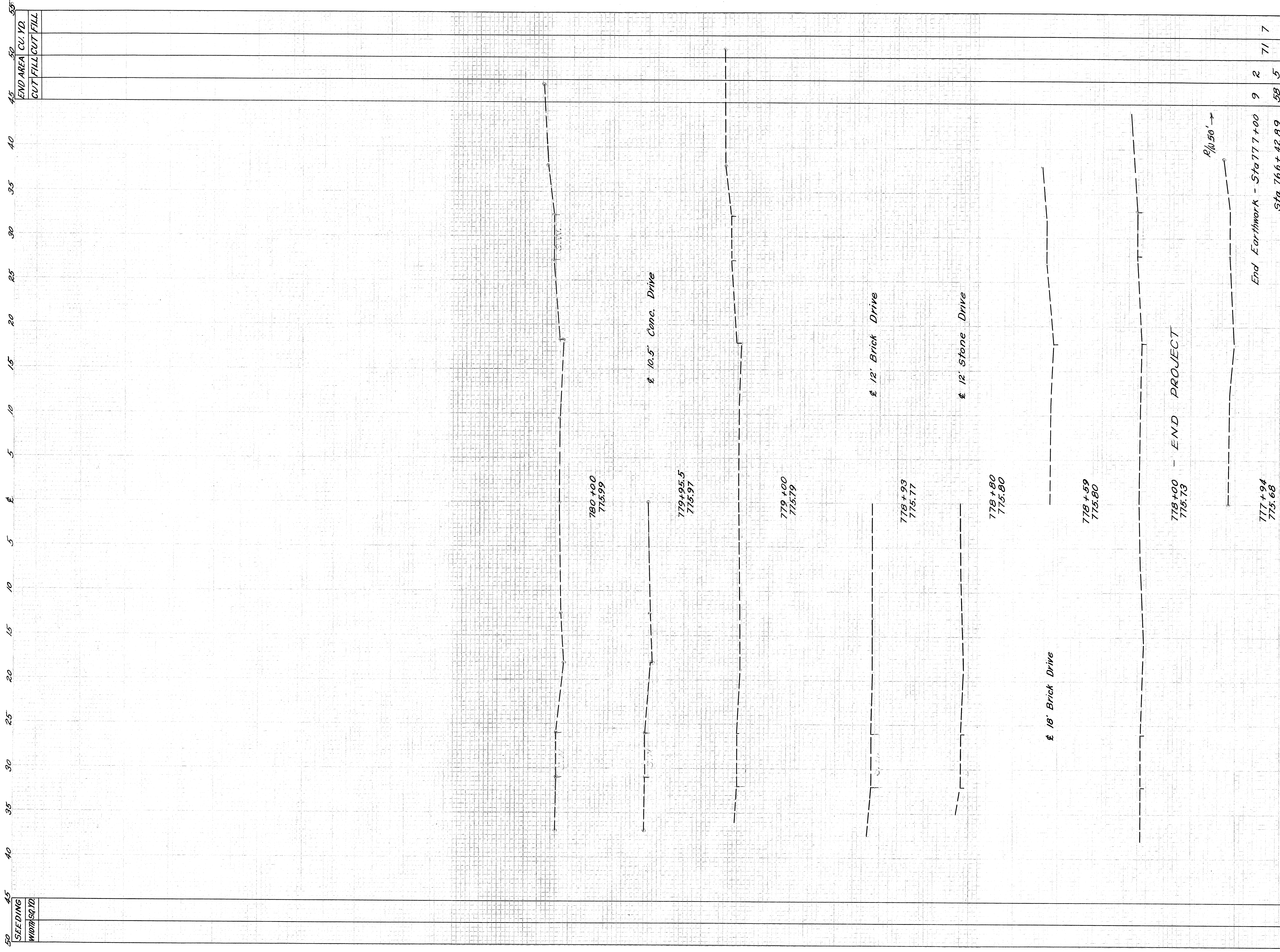
Sta. 780+47, 22' Rt.
Top W. Bolt of 8 Bolts of F.H.
Elev. 778.11

Typical Section of Adjoining Pavement
beginning & end of Project.
Monolithic Brick. (10" Th.)





(0361006



Sta. 777+00 to Sta. 780+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	STATE	

HANCOCK COUNTY
HAN-15-1468
In Findlay

7
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Drainage Area = 56 Sq. Mi.

EXISTING STRUCTURE
TYPE PLATE GIRDER
SPAN 62'-4"
ROADWAY 33'
LOADING 5-31-46
TWO 11' Walks (L.L. Red. 55%)

FIRST BRIDGE UPSTREAM 0.28 MI.
TYPE 3 Span Concrete Arch
SPAN 91 Ft.
WATERWAY AREA 810 Sq. Ft.

FIRST BRIDGE DOWNSTREAM 0.20 MI.
TYPE 3 Span Concrete Arch
SPAN 100 Ft.
WATERWAY AREA 680 Sq. Ft.

Foundation wall to be restored after completion of abutment.

Begin Appro. Slab Sta. 776+27.89

End Appro. Slab Sta. 775+56.29

Contours to carry existing slope through structure.

Proposed temporary footbridge

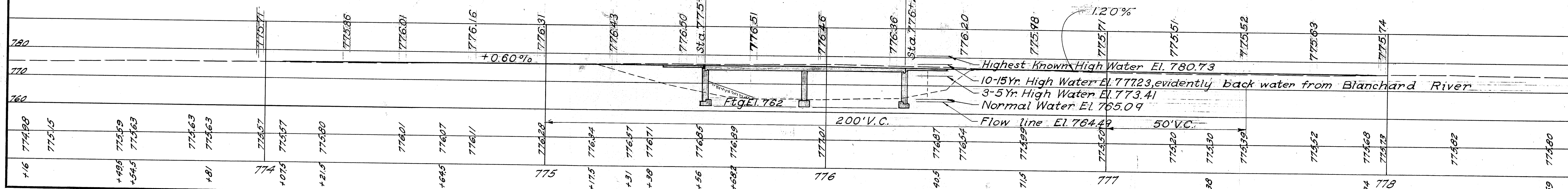
FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State assumes no responsibility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

PROPOSED STRUCTURE

TYPE: Continuous reinforced conc. slab on reinforced concrete substructure.
SPAN: 2 @ 35' 9" bearings
RDWY: 40' f/f of curbs
SIDEWALKS: 2 @ 8'-0"
LOAD FREQUENCY: CF = 400 (51)
SKEW: 20° L.F.
WEARING SURF.: Bituminous
APPROACH: SLABS: AS 1-54 modified, with curbs (15' long)
ALIGNMENT: Tangent

B.M. "X" S.E. Cor. West Abutment
Bridge HAN-15-144 El. 777.18

BRIDGE LIMITS



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. HAN-15-1442
OVER EAGLE CREEK
HANCOCK CO. S.R. 15
STA. 775+56.29 to 776+27.89
SCALE 1" = 20'

PRESENT TOPOGRAPHY	PROPOSED WORK
SURVEYED Amiel Survey	DRAWN Amiel Survey
DESIGNED P. E. S.	CHECKED P. E. S.
REVIEWED C. H. A.	

BFG 7-5-56

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 10-1-51, together with revisions thereof dated 7-15-52, 4-1-54 and 2-1-55.

TEMPORARY FOOTBRIDGE AND APPROACHES shall be provided on south side of proposed bridge. Bridge shall have 4'-6" clear width for 100 lbs. per sq. ft. loading. Bridge floor not lower than El. 776 with approaches graded to meet existing sidewalks. Approaches shall be surfaced with cinders or gravel 4" thick and not coarser than No. 40. Width of approach surfacing shall be 5'-6".

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed and become the property of the Contractor. The rear abutment and wings shall be removed to at least 6" below proposed ground surface and to the extent necessary to avoid interference with new construction. The forward abutment shall be removed to 3 ft. below the proposed roadway and to the extent necessary for new construction. Suitable waste masonry may be used as slope protection in front of rear abutment.

Extreme care shall be taken by the contractor in removing existing structure and excavating for proposed abutment adjacent to existing building at N.E. corner of bridge to protect the building against any damage. After construction of the proposed abutment has been completed, the foundation wall of the existing building shall be restored. Cost of protection of the building and of restoration work shall be included in Item 5-24, Removal of Existing Structure.

FOOTINGS shall extend a minimum of 3" into solid rock, or to the elevation shown, whichever is lower.

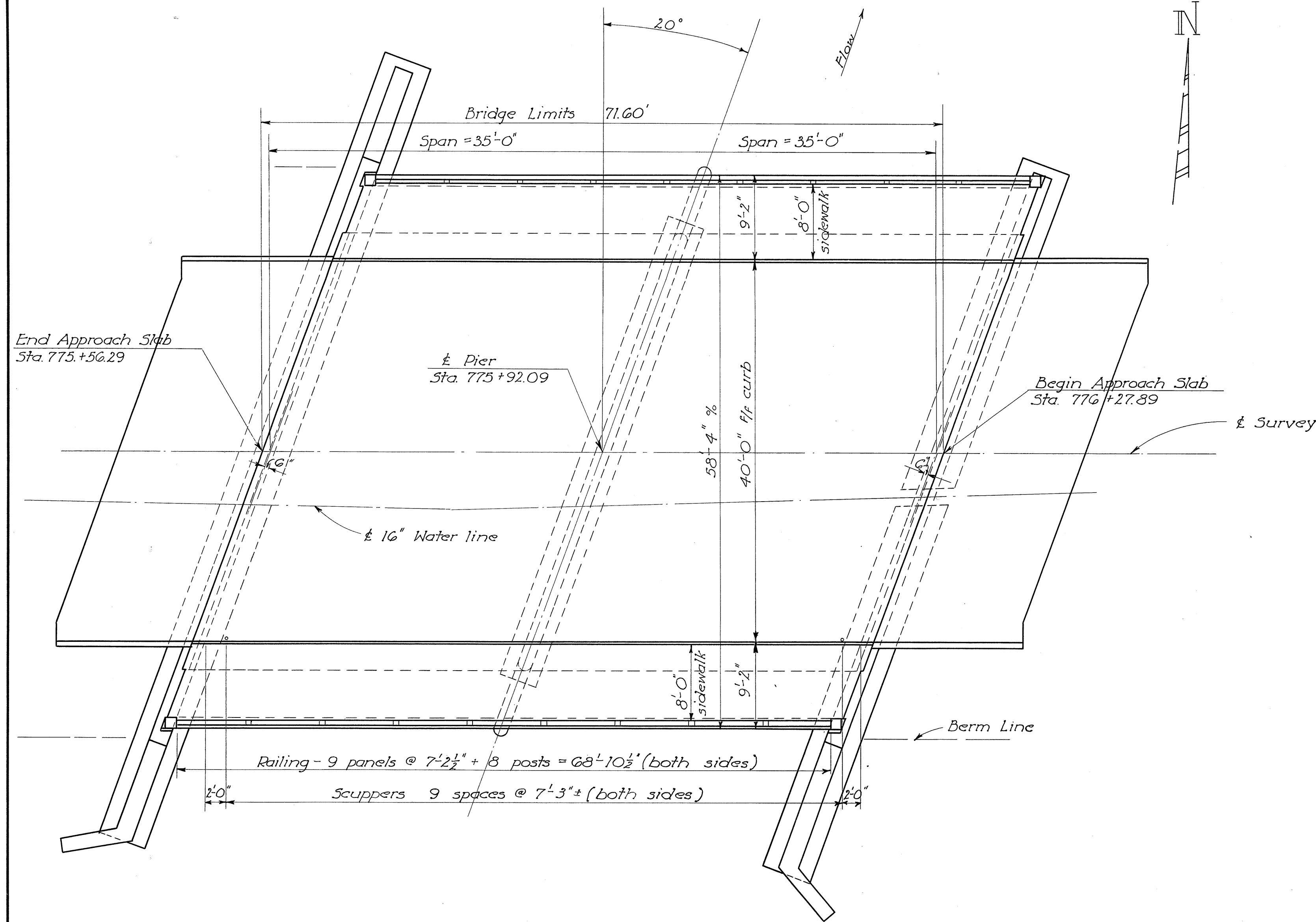
GRAVEL, if used as the coarse aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class "C" concrete in the superstructure. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in this structure.

WELDING of steel railing shall be Class "A".

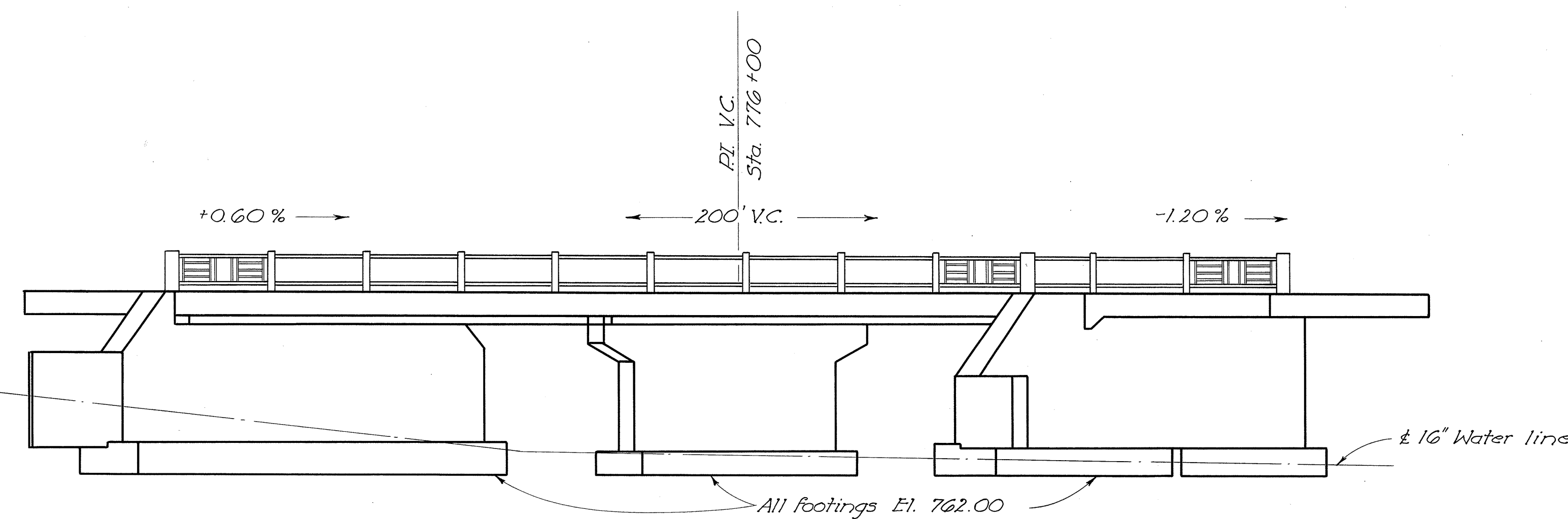
SURFACE FINISH OF CONCRETE: Railing end posts, curb faces, fascias of deck and exposed surfaces of piers, abutments, and wing walls shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 5-1.

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

WATER LINE: The Contractor shall use extreme care to avoid damage to the existing 16" water main.



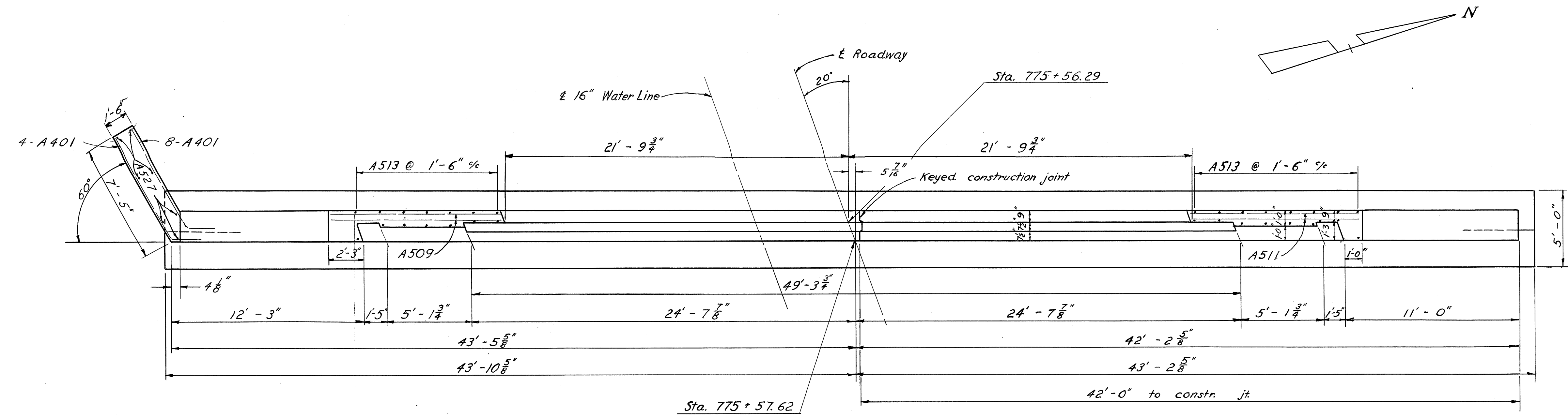
~ GENERAL PLAN ~



~ GENERAL ELEVATION ~

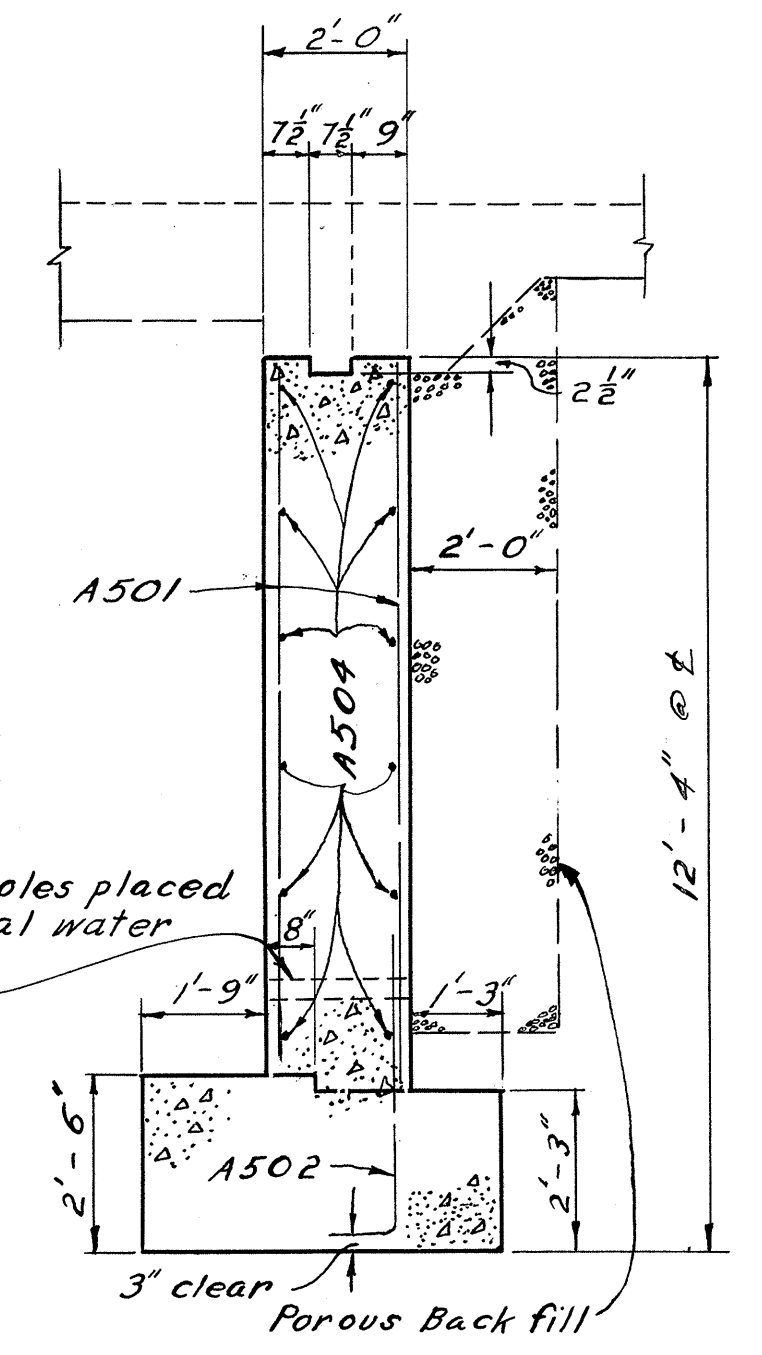
ESTIMATED QUANTITIES									
Item	Total	Unit	Description	Super.	Abuts.	Piers	Gen.	As Built	
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump		
E-2	430	Cu.Yd.	Unclassified excavation		430			35.3	394.7
E-2	90	Cu.Yd.	Rock excavation		65	25		31.9	121.9
5-1	226	Cu.Yd.	Class "C" concrete, superstructure	226					
5-1	10	Cu.Yd.	Class "C" concrete, pier cap			10			
5-1	139	Cu.Yd.	Class "E" concrete, abutment & pier walls		119	20			
5-1	87	Cu.Yd.	Class "E" concrete, footings		72	15			
5-3	322	Sq.Yd.	Type "C" waterproofing	322					
5-4	64,927	Lbs.	Reinforcing steel	53,831	4,442	2,384	170	1,906	66,827
5-9	33	Sq.Ft.	Preformed expansion joint filler (1/4")			33			
5-14	142.33	Lin.Ft.	Railing (steel with concrete end posts)	142.33					
5-15	Lump	Sum	Temporary footbridge and approaches				Lump		
5-24	Lump	Sum	Removal of existing structure				Lump		
5-29	125	Cu.Yd.	Porous backfill		125				
5-29	20	Each	Scuppers, 4" dia. galv. steel or W.I. pipe	20					
5-29	143	Lin.Ft.	Subdrainage for wearing surface course	143					
T-35	22	Cu.Yd.	Asphaltic concrete surface course, Type "C" (70-80)	22					
E-3	145	Cu.Yd.	Channel excavation				145		

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
GENERAL PLAN & ELEVATION NOTES & ESTIMATED QUANTITIES BRIDGE NO. HAN-15-1442 OVER EAGLE CREEK HANCOCK CO. STA. 775+56.29 776+27.89						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.B.L.	E.B.L.	Grasselli	add	BFG	3-5-56	

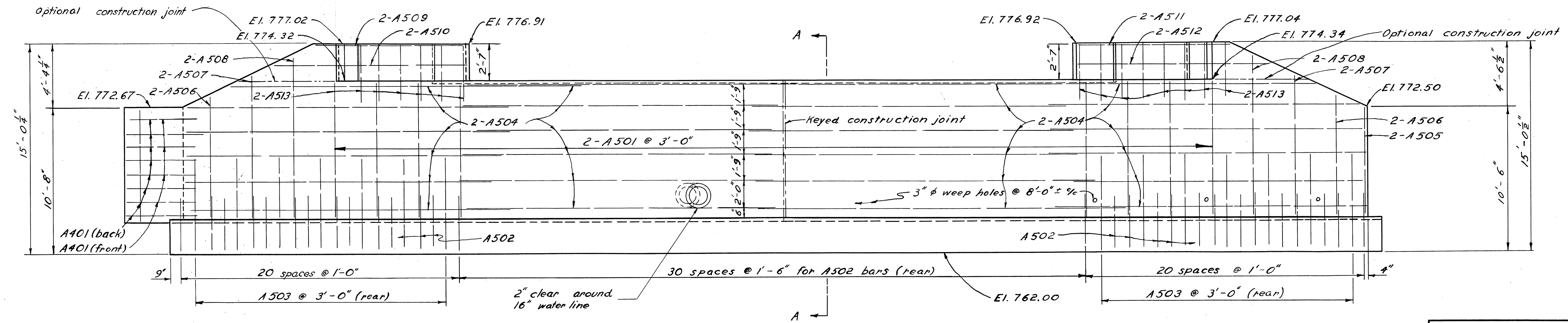


PLAN

3" dia. weep holes placed 6" above normal water level.



SECTION A-A



ELEVATION

All reinforcing 2" clear unless otherwise shown

POROUS BACKFILL, 2ft thick full length of abutment and wings, shall extend from normal water level up to the under side of the approach slab or to the finished ground surface. Backfill shall not be placed more than 1/2 height of abutment before slab is in place.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

REAR ABUTMENT DETAILS

BRIDGE NO. HAN-15-1442
over Eagle Creek

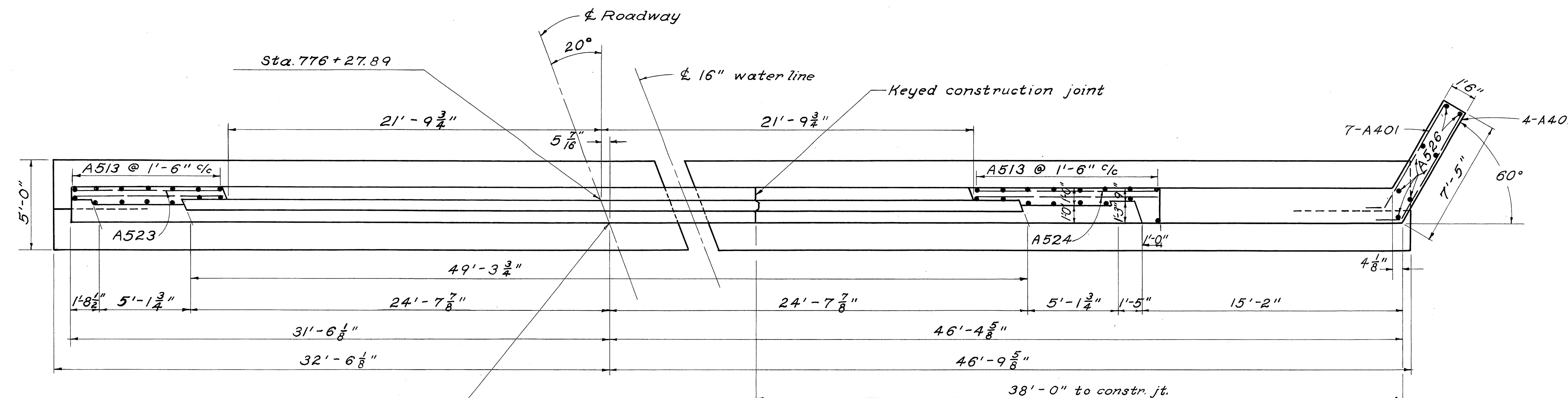
HANCOCK COUNTY Sta. 775+56.29 to Sta. 776+27.89

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.B.L.	E.B.L.	D.A.S.	BFG	BFG	2-5-56	

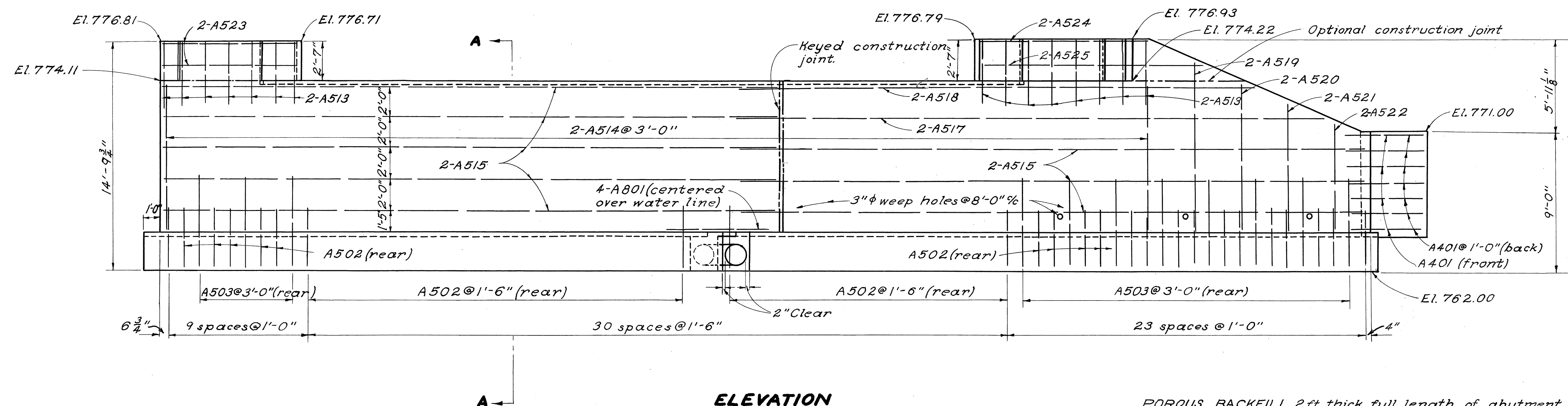
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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HANCOCK COUNTY
HAN-15-14.68



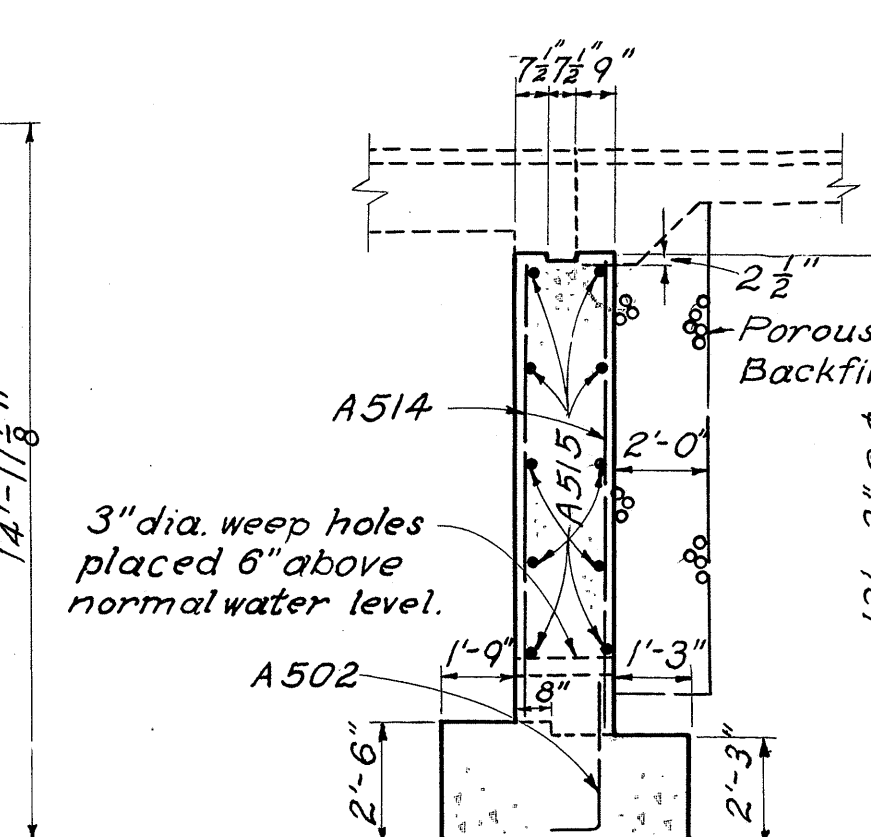
PLAN



ELEVATION

All reinforcing 2" clear unless otherwise shown.

POROUS BACKFILL, 2 ft. thick, full length of abutment and wings, shall extend from normal water level up to the under side of the approach slab or to the finished ground surface. Backfill shall not be placed more than 1/2 height of abutment before slab is in place.



SECTION A-A

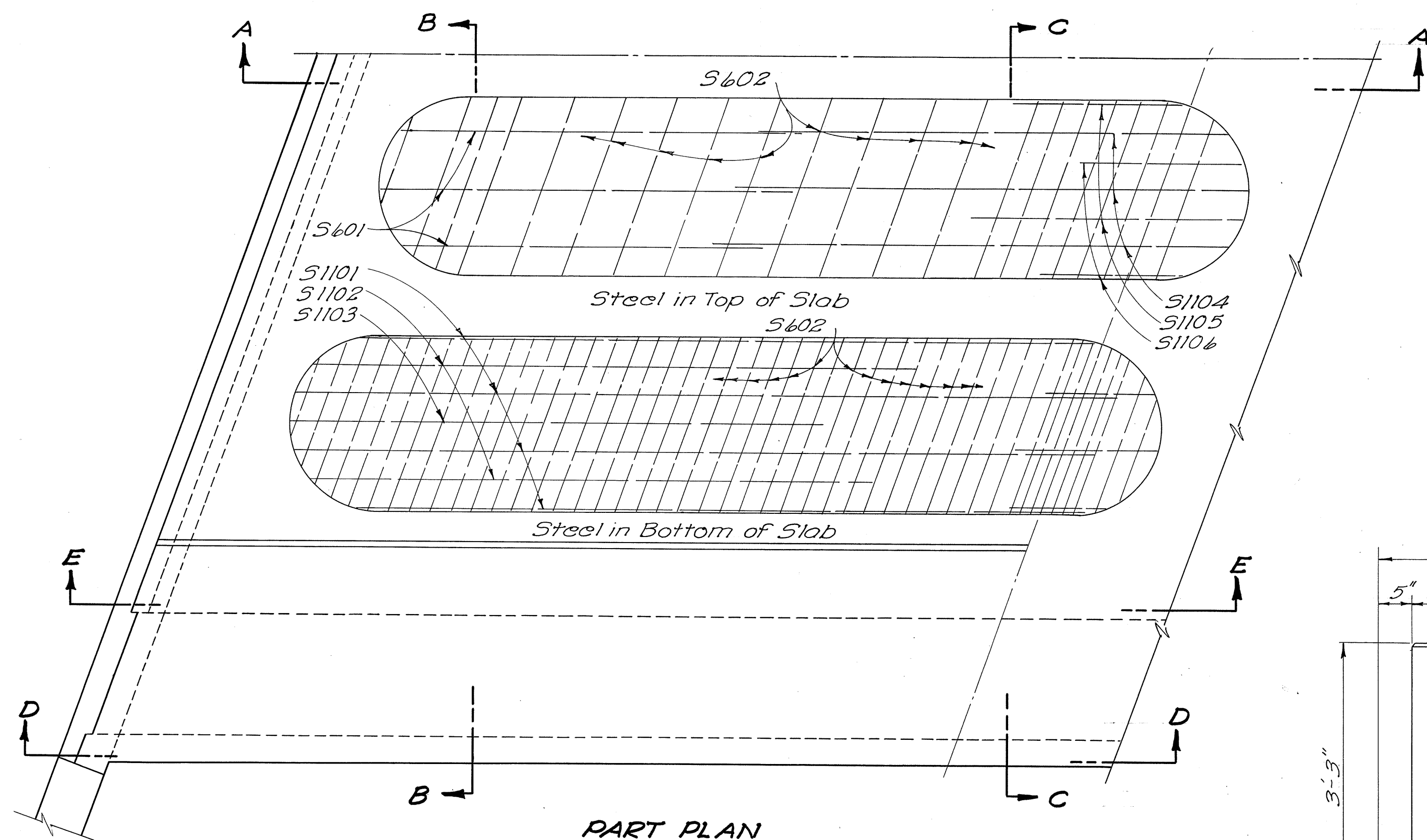
FORWARD ABUTMENT DETAILS

BRIDGE NO. HAN-15-1442
over Eagle Creek

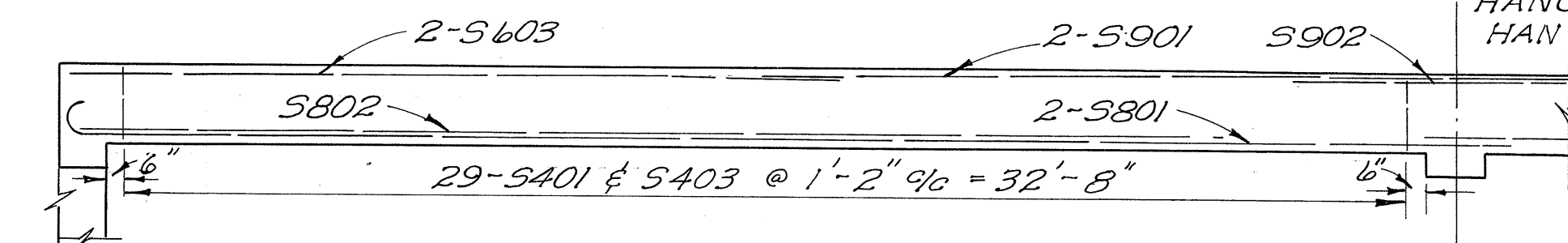
HANCOCK COUNTY Sta. 775+56.29
to 776+27.89

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.B.L.	E.B.L.	S	W.B.L.	BFG	4.1.77	3-5-56

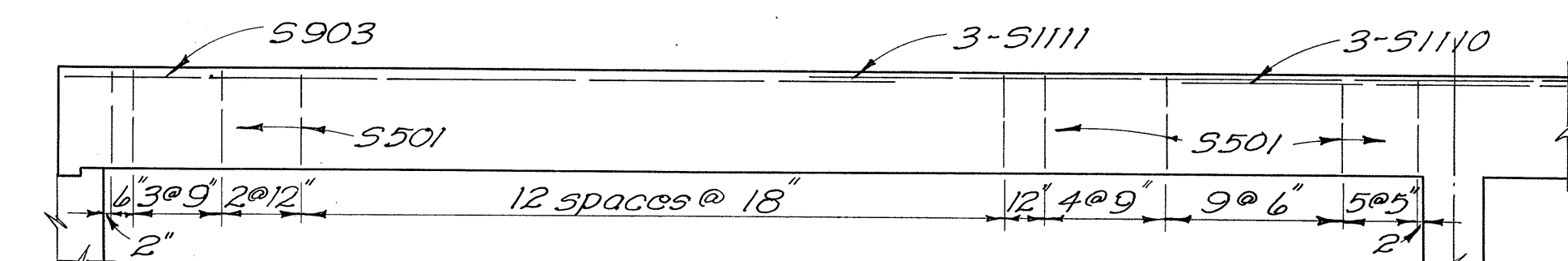
HANCOCK COUNTY
HAN-15-14.68



PART PLAN

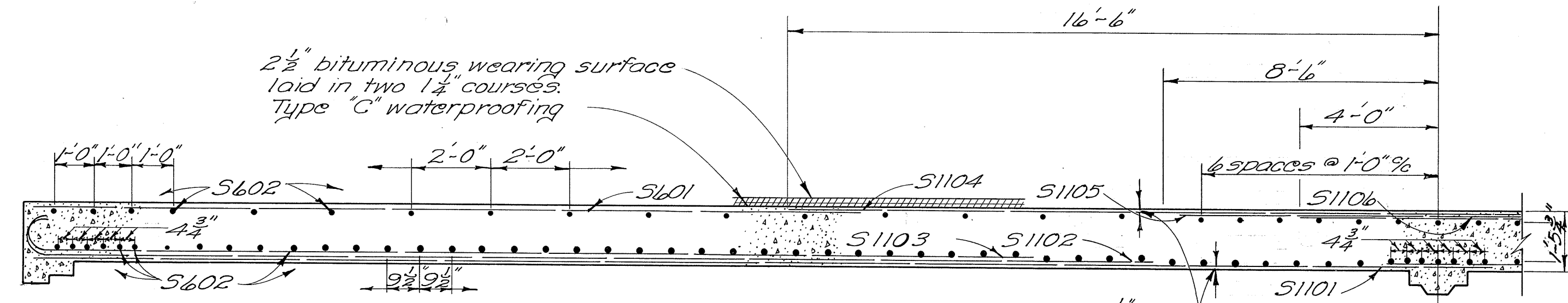


SECTION D-D

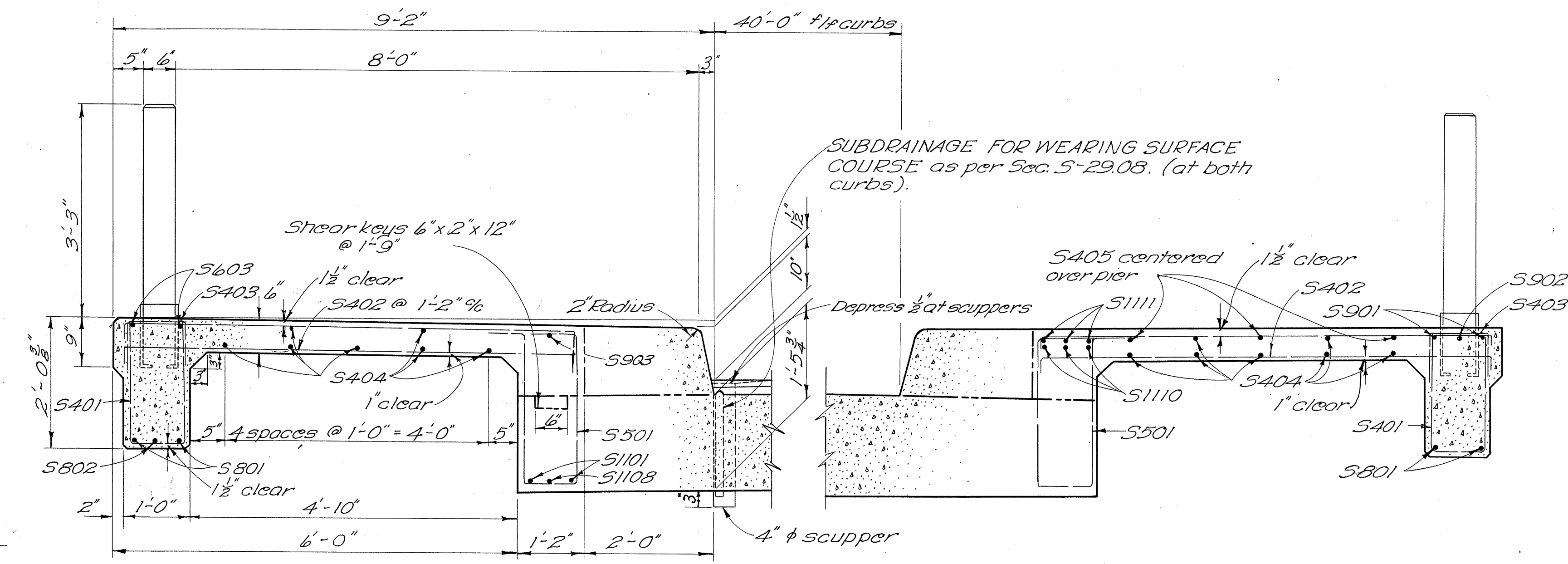


SECTION E-E

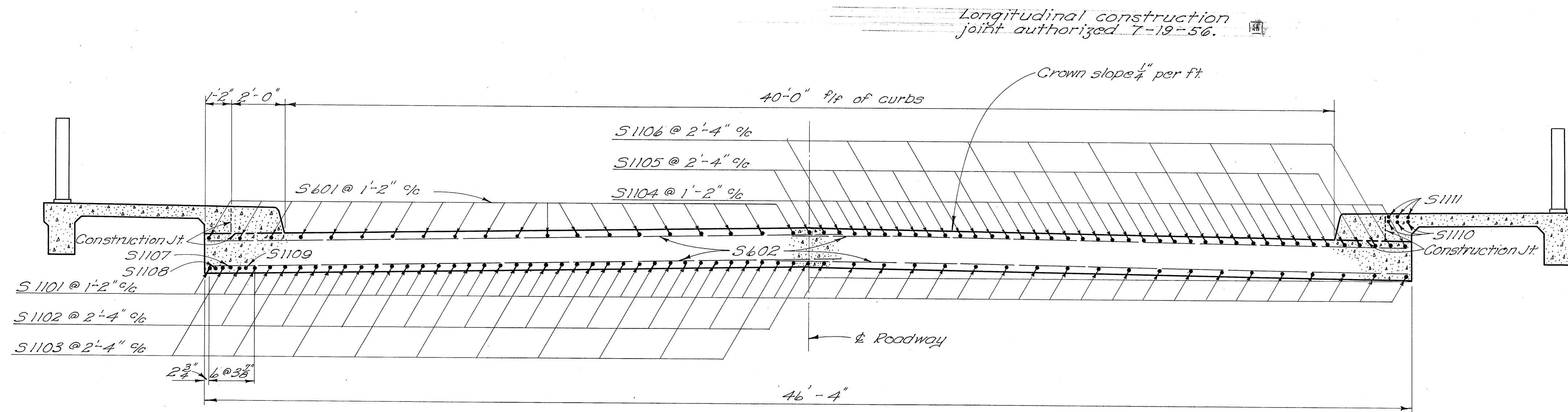
Symmetrical about
Centerline of Bridge



SECTION A-A



SIDEWALK DETAILS

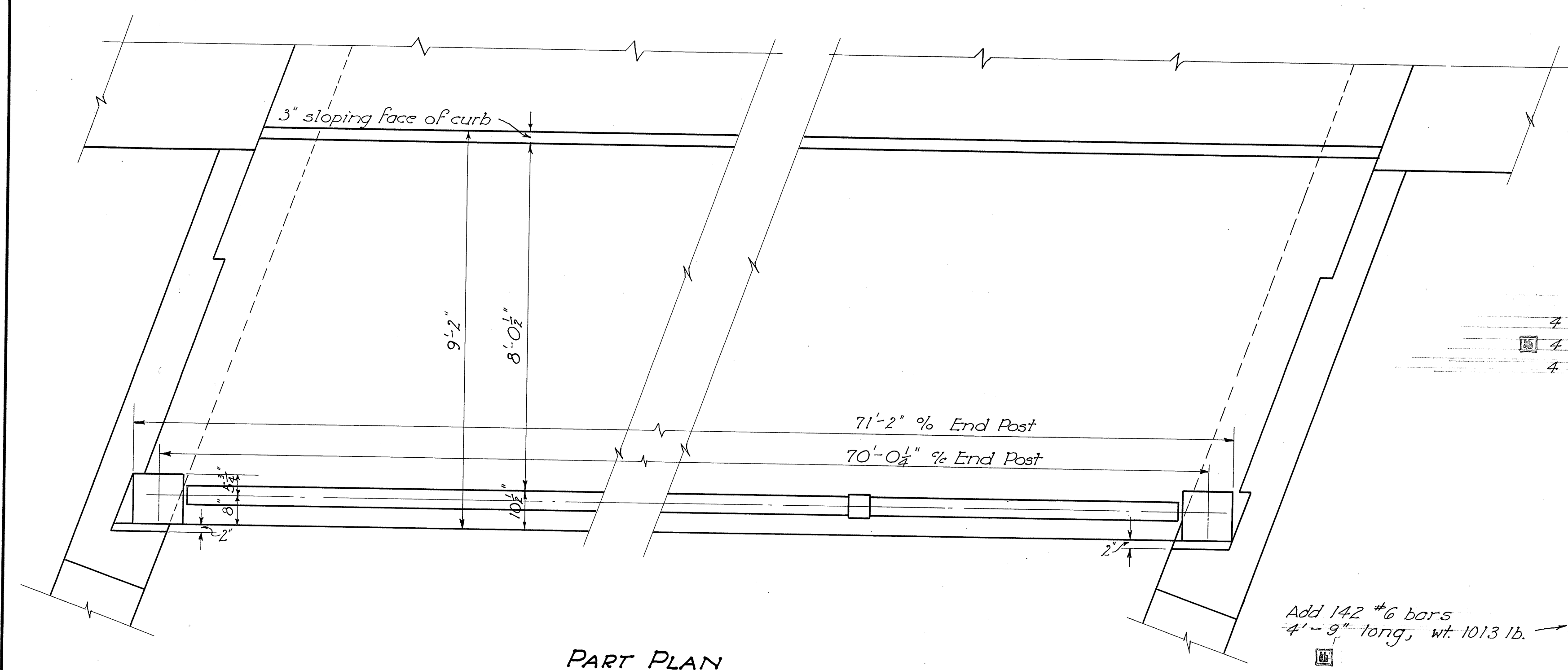


SECTION B-B

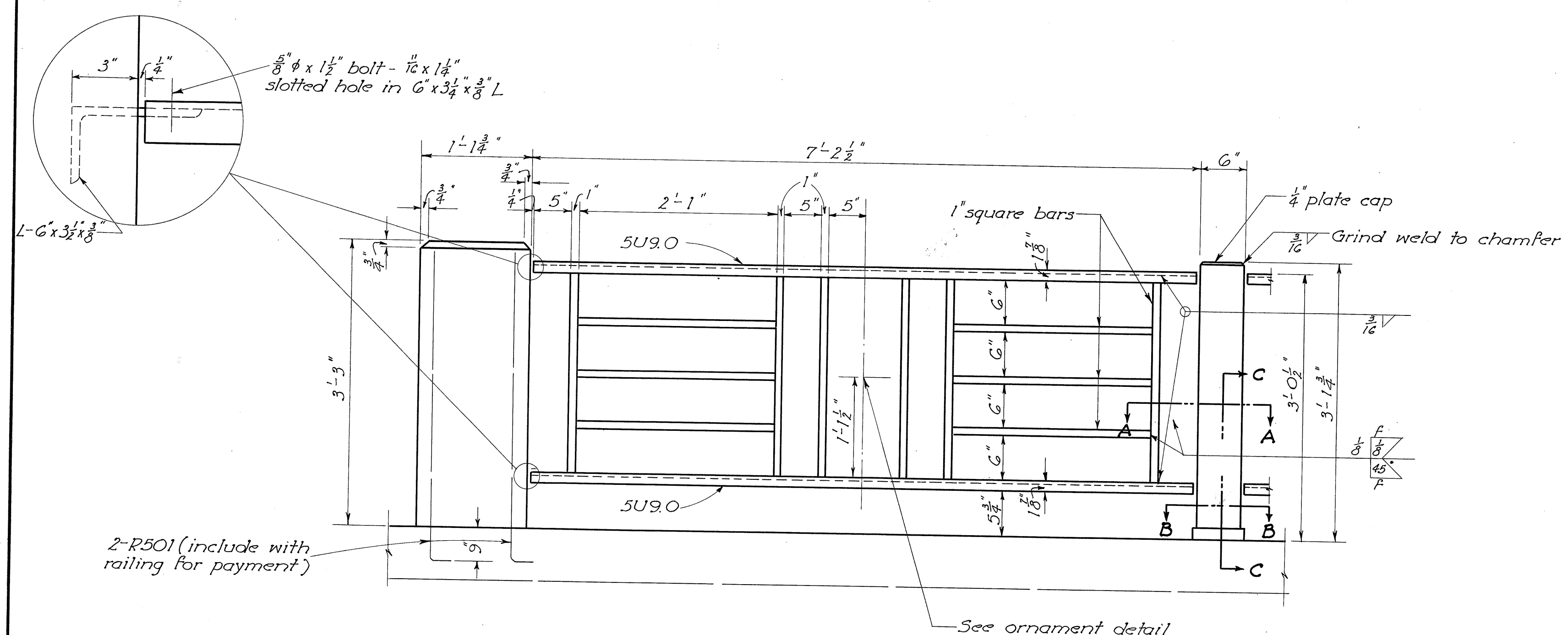
SECTION C-C

SIDEWALKS AND CURBS shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to attain full dead load deflection.

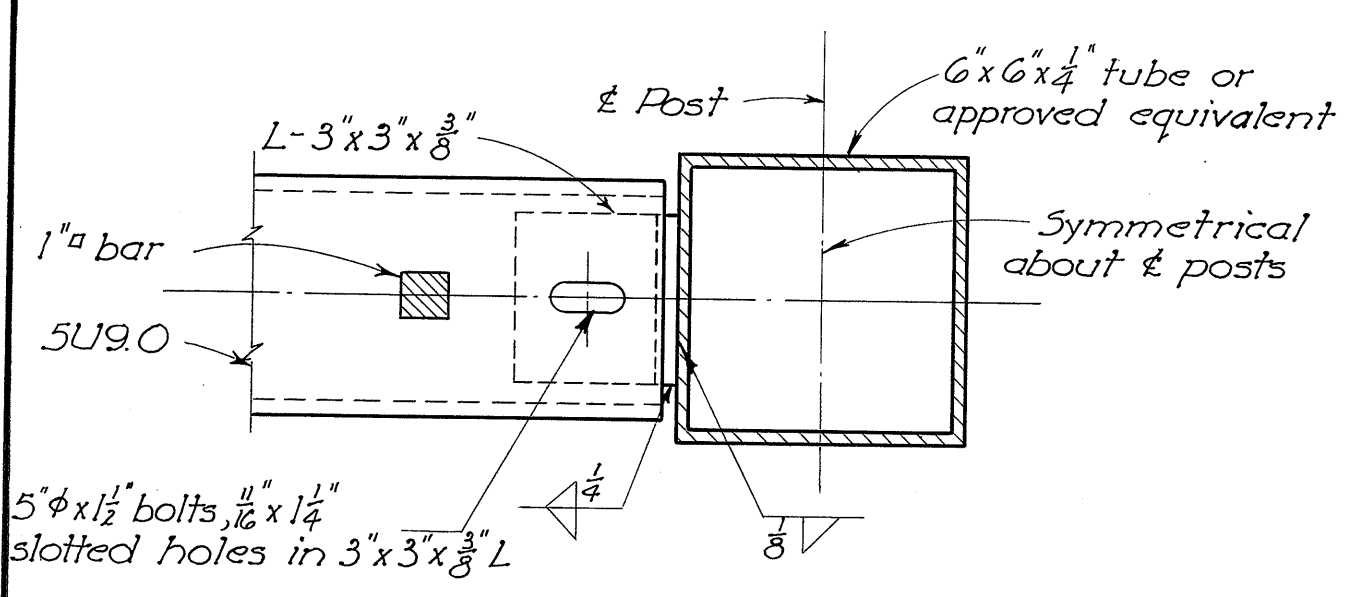
STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES							
SUPERSTRUCTURE DETAILS							
BRIDGE No. HAN-15-1442 OVER EAGLE CREEK							
HANCOCK COUNTY STA. 775+56.29 STA. 776+27.89							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
E.B.L.	E.B.L.	E.B.L.	E.B.L.	E.B.L.	9.8.56	3-5-56	



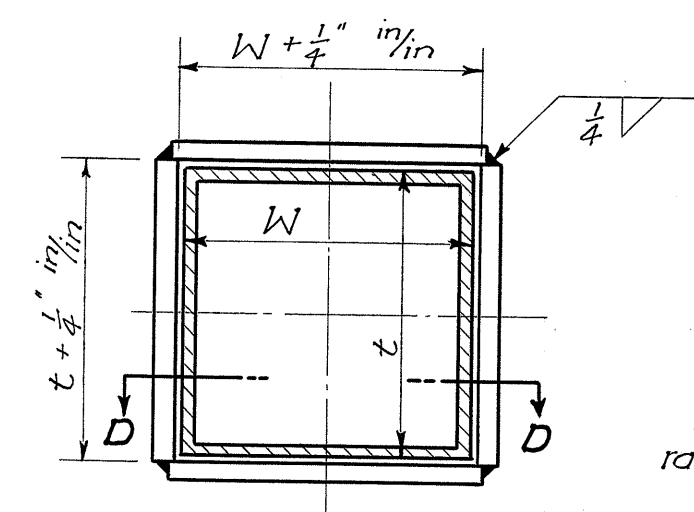
PART PLAN



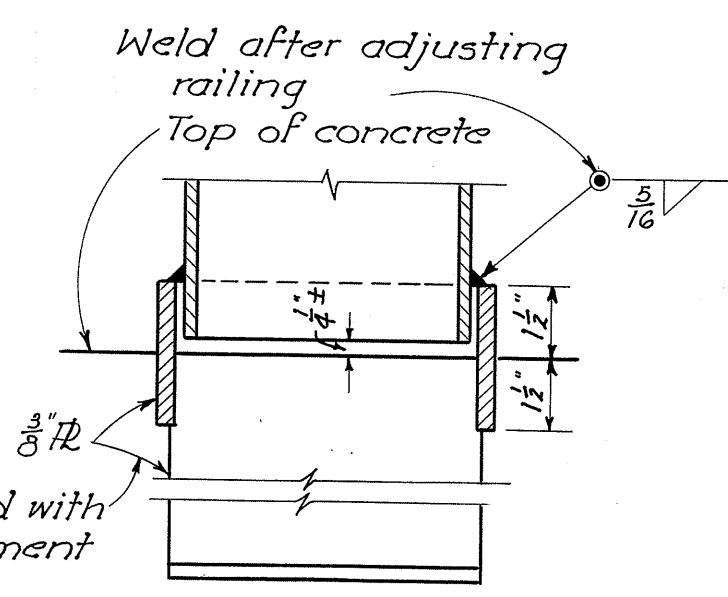
PART ELEVATION OF RAILING



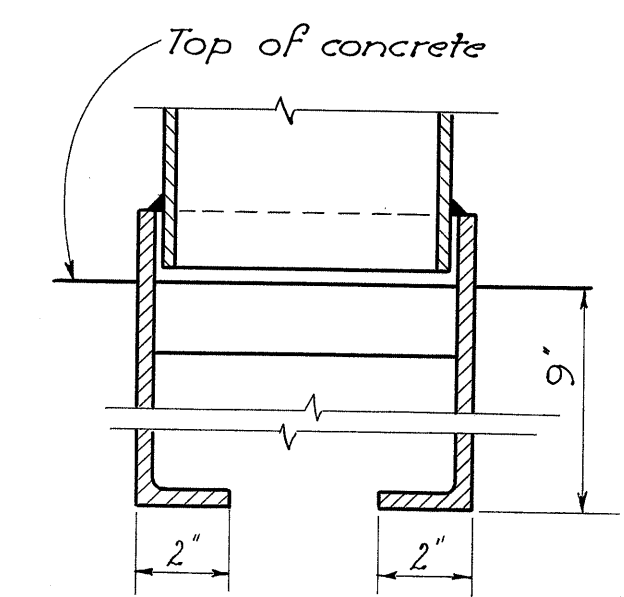
SECTION A-A



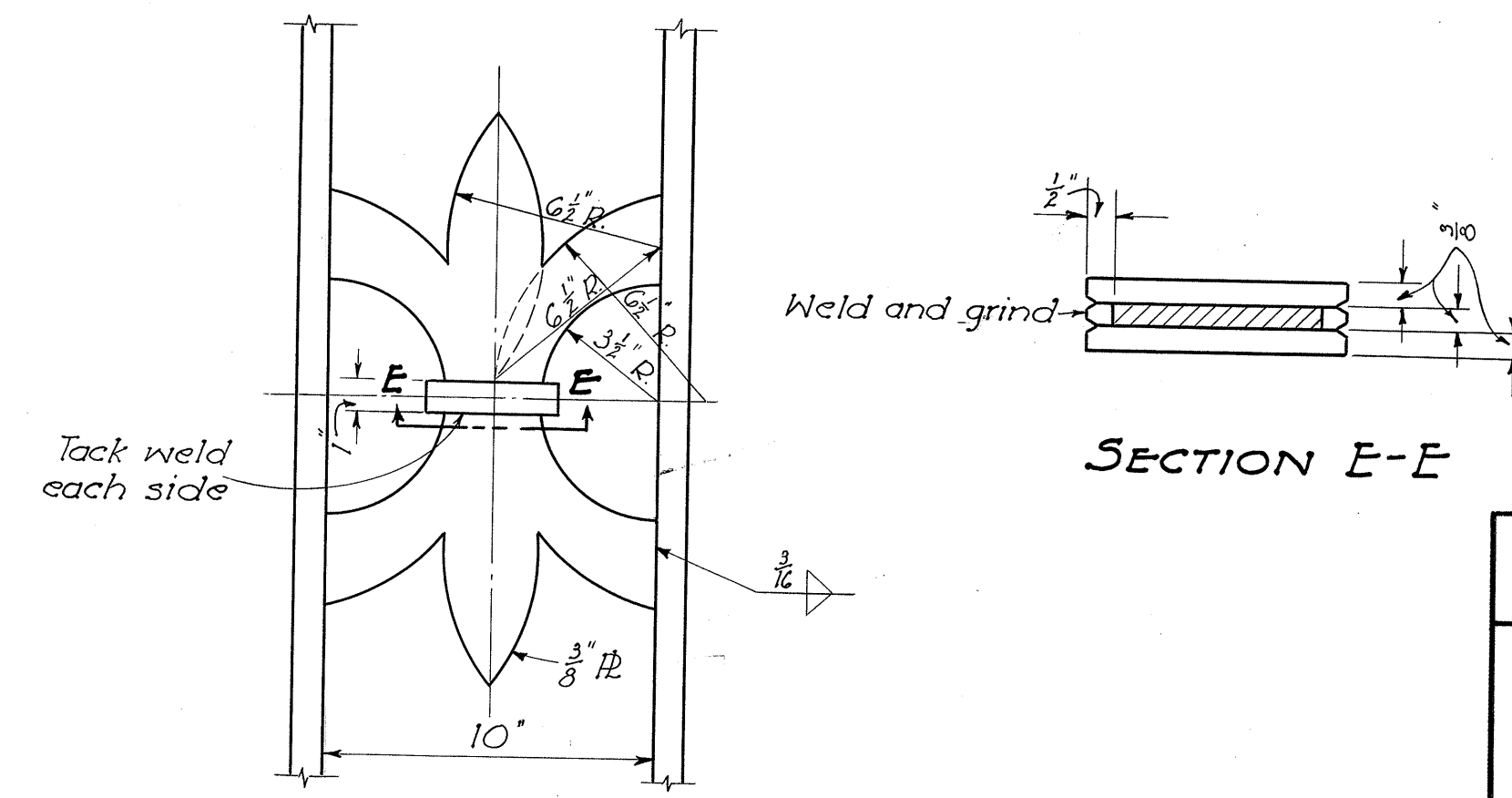
SECTION B-B



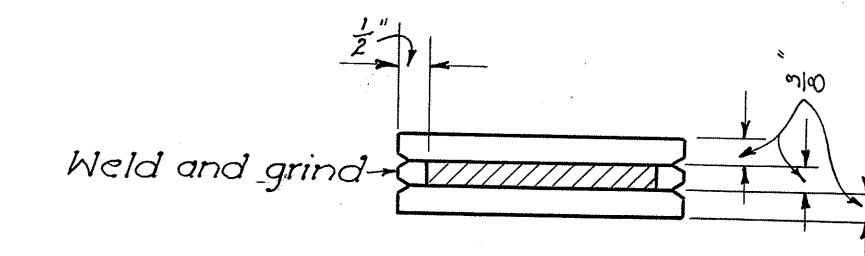
SECTION D-D



SECTION C-C



DETAIL OF RAILING ORNAMENT



SECTION E-E

REINFORCING STEEL					Bending Diagram				
Mark	No.	Length	Weight	Shp.					
Superstructure									
S1101	80	37'-4"	15,868	S					
S1102	38	30'-3"	6,107	B	S1102	28'-8"	%		
S1103	40	26'-11"	5,720	B	S1103	25'-4"	%		
S1104	40	33'-0"	7,013	S	S1107	29'-8"	%		
S1105	19	17'-0"	1,716	S	S1108	26'-10"	%		
S1106	20	8'-0"	850	S	S1109	22'-9"	%		
S1107	2	31'-3"	332	B	S801	36'-10"	%		
S1108	2	28'-5"	302	B					
S1109	2	24'-4"	259	B					
S1110	6	14'-0"	446	S					
S1111	6	28'-0"	893	S					
S901	4	24'-0"	326	S					
S902	2	10'-0"	68	S					
S903	4	24'-6"	333	S					
S801	8	37'-11"	810	B					
S802	4	21'-6"	230	S					
S601	80	21'-0"	2,523	S					
S602	284	24'-0"	10,238	S					
S603	8	25'-9"	309	S					
S501	152	6'-7"	1,044	B					
S401	116	4'-0"	310	B					
S402	244	7'-8"	1,250	B					
S403	116	3'-0"	232	B					
S404	28	36'-3"	678	S					
S405	6	17'-0"	68	S					
Abutments									
A501	44	9'-8"	444	S					
A502	108	4'-4"	488	B					
A503	25	6'-6"	169	B					
A504	48	22'-6"	1,126	S					
A505	2	7'-10"	16	S					
A506	4	8'-11"	37	S					
A507	4	10'-3"	43	S					
A508	4	11'-7"	48	S					
A509	2	10'-8"	22	S					
A510	2	14'-0"	29	S					
A511	2	10'-9"	22	S					
A512	2	13'-10"	29	S					
A513	60	4'-2"	261	S					
A514	44	9'-5"	432	S					
A515	16	39'-7"	661	S					
A517	2	37'-3"	78	S					
A518	2	32'-5"	68	S					
A519	2	11'-0"	23	S					
A520	2	9'-9"	20	S					
Abutments (Cont.)									
A521	2	8'-4"	17	S					
A522	2	7'-1"	15	S					
A523	4	8'-6"	35	S					
A524	2	10'-11"	23	S					
A525	2	14'-6"	30	S					
A526	7	6'-4"	46	S					
A527	7	8'-0"	58	S					
A401	23	8'-6"	131	B					
A801	4	6'-8"	71	S					
Pier									
P1001	4	34'-11"	601	B					
P1002	4	15'-8"	270	B					
P501	36	10'-2"	382	S					
P502	34	3'-11"	139	B					
P503	14	40'-0"	584	S					
P504	10	12'-6"	130	B					
P505	4	13'-5"	56	B					
P506	4	12'-6"	52	S					
P507	2	7'-9"	16	B					
P508	2	7'-3"	15	B					
P509	2	6'-9"	14	B					
P510	2	6'-3"	13	B					
P511	2	5'-11"	12	B					
P512	2	5'-7"	12	B					
P401	4	3'-1"	8	S					
P402	48	2'-6"	80	S					
Replacement Bars									
RE100	2	7'-6"	80	S					
RE1000	1	7'-2"	31	S					
RE900	1	6'-10"	23	S					
RE800	1	6'-6"	17	S					
RE600	1	5'-11"	9	S					
RE500	1	5'-7"	6	S					
RE400	1	5'-3"	4	S					
Railing									
R501	16	4'-3"		B					

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, A700 is a No. 7 size bar, and A1014 is a No. 10 size.