

N.B. 1131.08
S.B. 1136.55

N.B. 1131.92
S.B. 1137.63

N.B. 1132.94
S.B. 1138.86

N.B. 1134.12
S.B. 1140.24

N.B. 1135.47
S.B. 1141.73

N.B. 1136.98
S.B. 1143.23

N.B. 1138.64
S.B. 1144.73

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

253

SUMMIT COUNTY
SUM - 8 - 1.89

LEGEND

- Core Boring
- Auger Boring
- Drive Rod

Special berm & slope protection
See Sheet #189 (Roadway Item)

Special berm & slope protection
See Sheet #189 (Roadway Item)

PROPOSED STRUCTURE

Type: Continuous welded plate girders
reinforced concrete deck
and substructure

Spans: 80'-115'-115'-80'

Roadway: 30'-0" f/f of
2'-3" safety curbs

Load Frequency: CF400 (57)

Skew: 44° 46' 05" Right forward

Wearing Surface: 1" Monolithic concrete

Approach Slabs: Special 25' long

Alignment: Tangent

S.N. 7711131

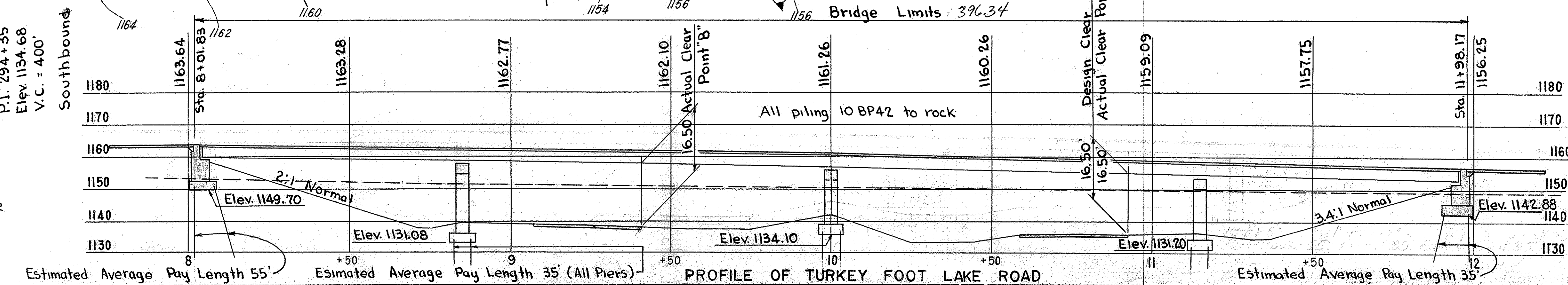
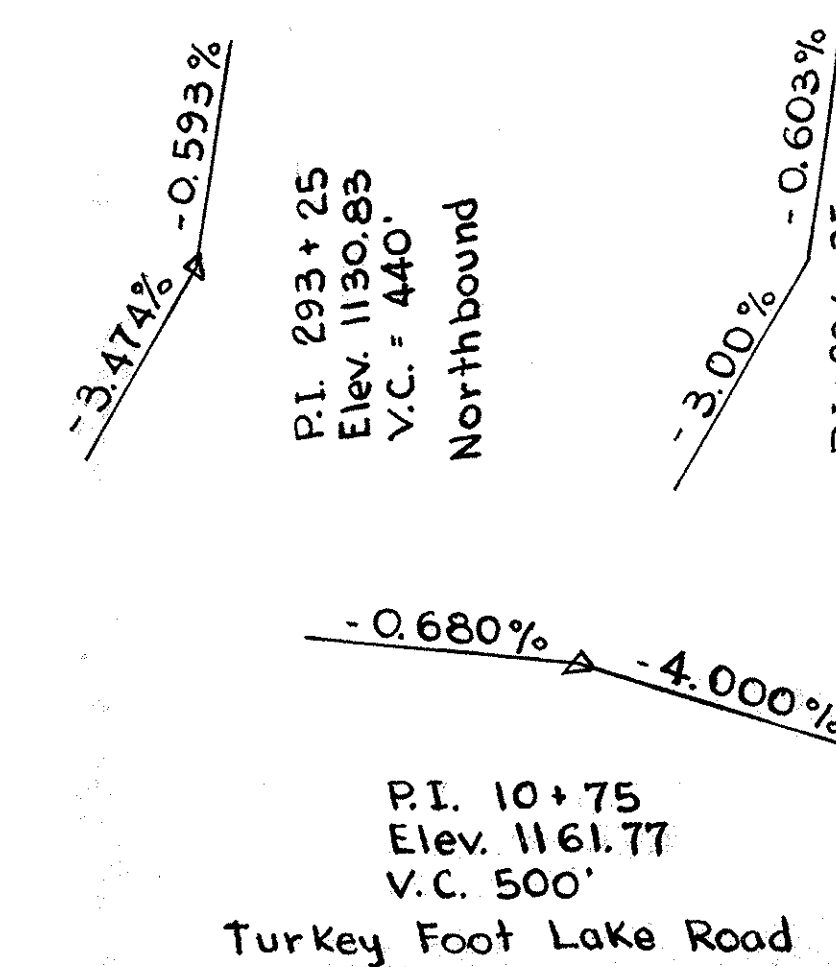
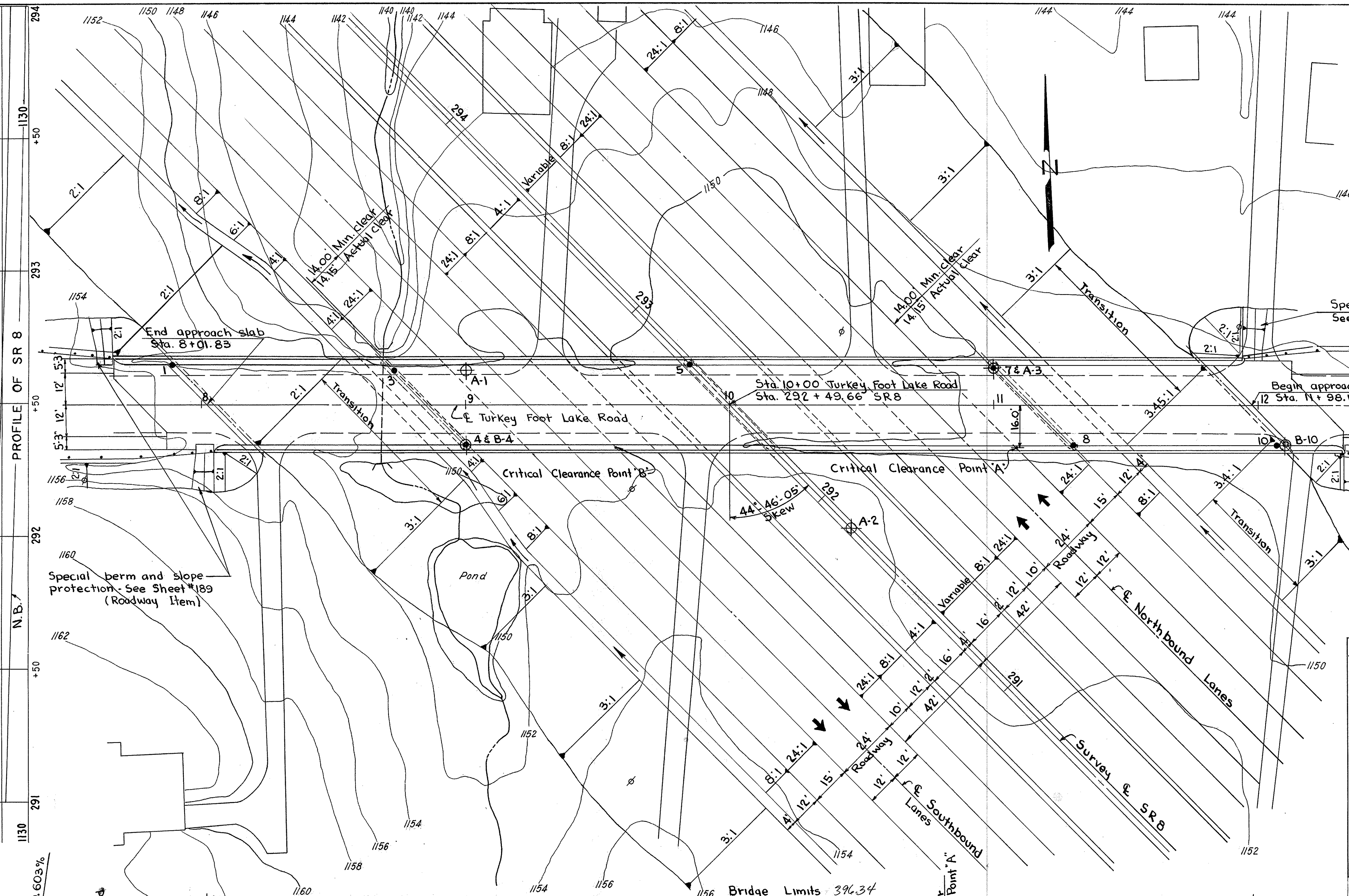
1980 A.D.T. = 4000

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ROCHESTER, PENNSYLVANIA

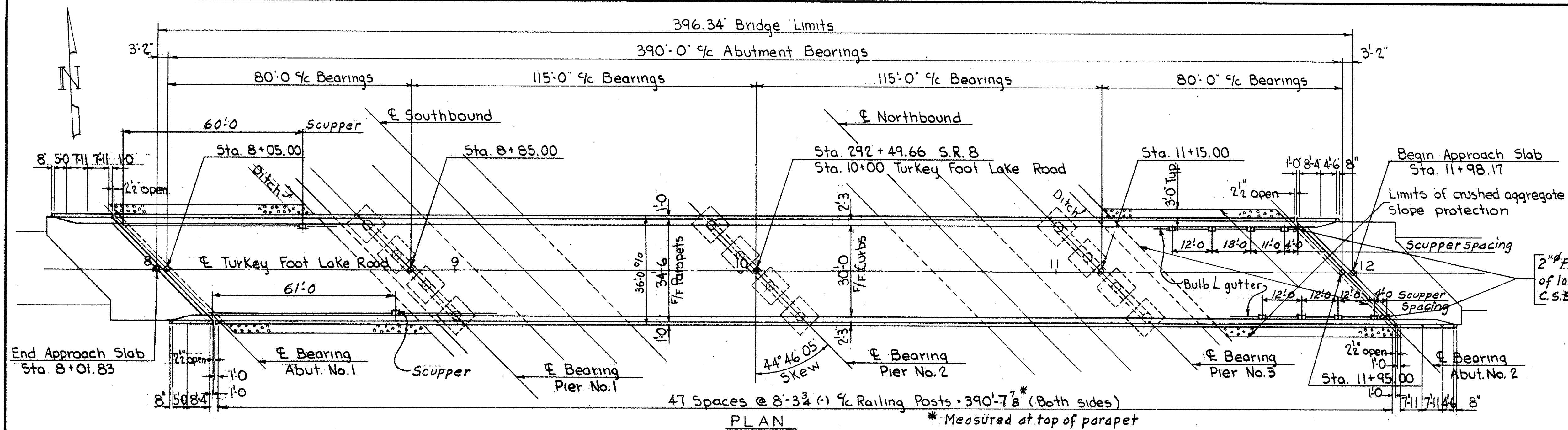
SITE PLAN
BRIDGE NO SUM-8-0554
SR 8 UNDER
TURKEY FOOT LAKE ROAD
(STATE ROUTE 619) 0554
Sta. 292 + 49.66

PRESENT TOPOGRAPHY		PROPOSED WORK		REVIEWED
SURVEYED	DRAWN	DESIGNED	DRAWN	
M.B.J.	R.L.M.	R.L.M.	R.L.M.	J.D.Y.

10/26/61



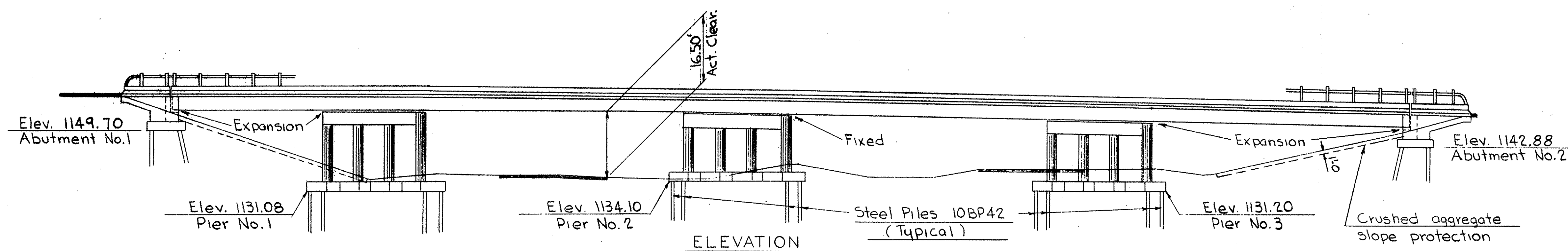
Estimated Average Pay Length 35'



FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

SUMMIT COUNTY
SUM - 8 - 1.89

254



ESTIMATED QUANTITIES

Item	Total	Unit	Description	S'tr.	Abuts	Piers	Gen.
E-2	600	cu. yd.	Unclassified excavation		310	290	
S-1	465	cu. yd.	Class "C" concrete, superstructure	465			
S-1	100	cu. yd.	Class "C" concrete, piers, caps, & cols.			100	
S-1	210	cu. yd.	Class "E" concrete, abutments		210		
S-1	99	cu. yd.	Class "E" concrete, pier footings			99	
S-4	163,171	lbs.	Reinforcing steel	118,241	16,396	28,534	
S-7	453,000	lbs.	Structural steel	453,000			
S-8	453,000	lbs.	Field Painting of structural steel	453,000			
S-14	859	lin. ft.	Railing (Aluminum rail and supports concrete parapet)	785	74		
S-16	Lump Sum	Lump Sum	First test pile				Lump Sum
S-18	4,010	lin. ft.	Steel piles, 10BP42		1350	2660	
S-29	10	each	Scuppers	10			
S-29	47	cu. yd.	Porous backfill		47		
I-10	600	sq. yd.	Crushed aggregate slope protection				600
** Special	465	each	Water-reducing set-retarding admixture	465			

** See Proposal note

General Notes:
Notes No. 1, 2, 3, 4, 5, 6, 7 and 8 on Sheet 229 apply to this structure.
Detail Notes A, B, C, E, F, G and H on Sheet 229 apply to this structure

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GENERAL PLAN & ELEVATION
BRIDGE NO. SUM - 8 - 0554
SR 8 UNDER
TURKEY FOOT LAKE ROAD
Sta. 292+49.66

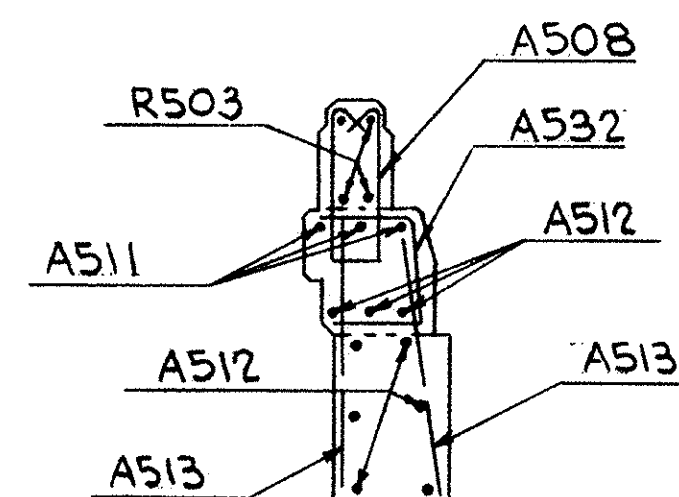
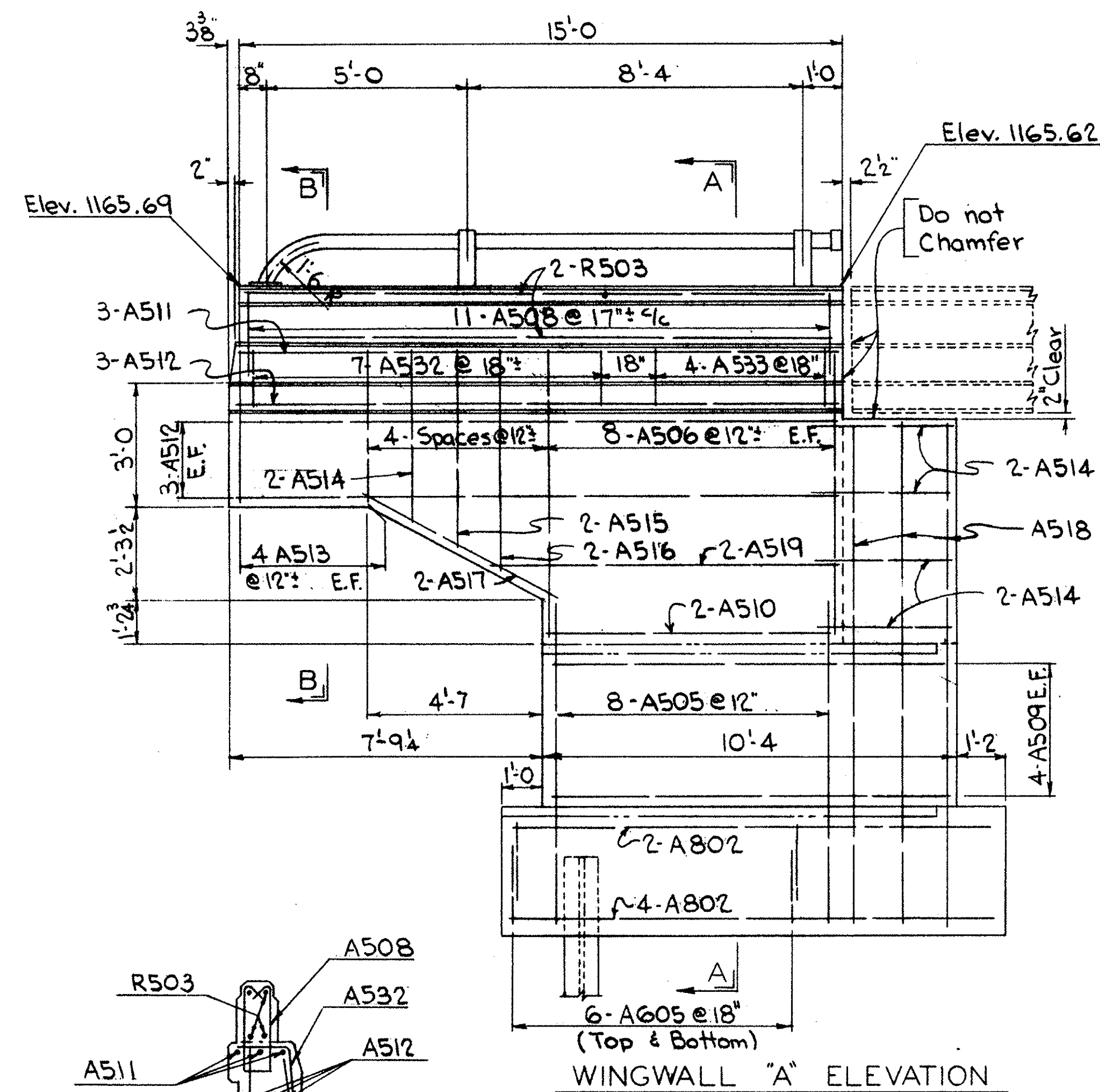
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	sq		AA	L.G.H. 10/26/61	

507705

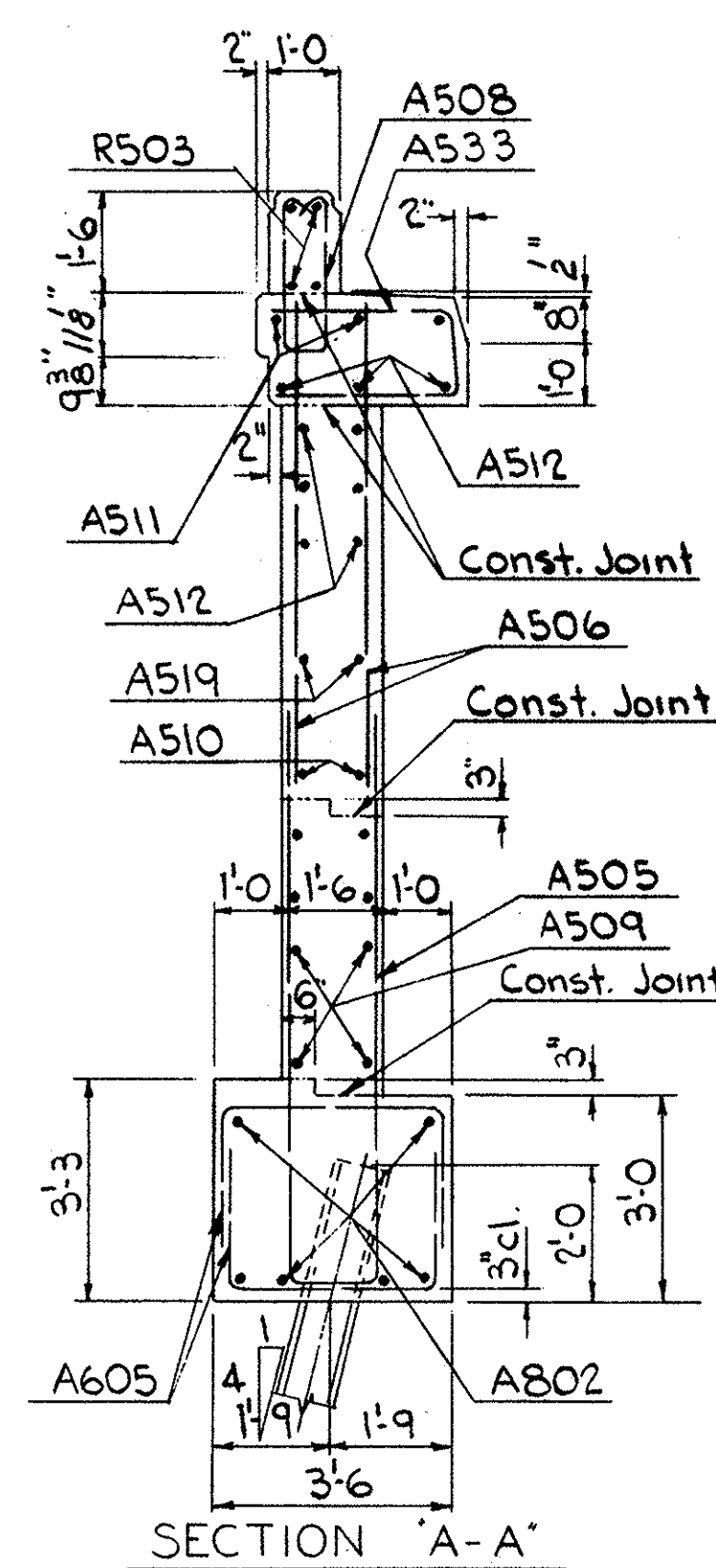
BEAVER VALLEY ENGINEERING SUPPLIES COMPANY

POINT	ELEVATIONS
A	1156.74
B	1156.91
C	1157.07
D	1157.01
E	1156.94
F	1163.28
G	1163.62
H	1163.48
K	1162.25
L	1165.62
M	1165.69
N	1162.47
P	1165.87
R	1165.99
S	1149.70

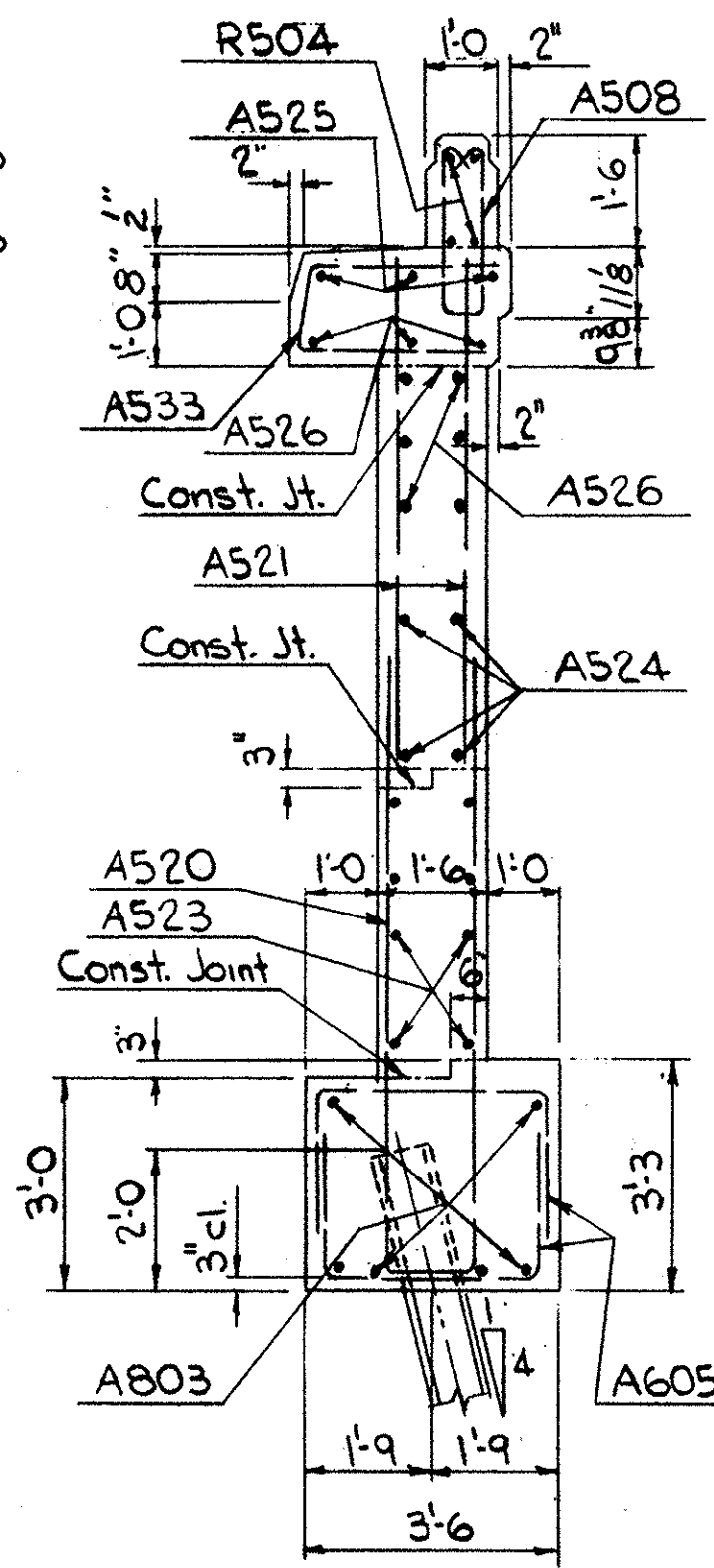
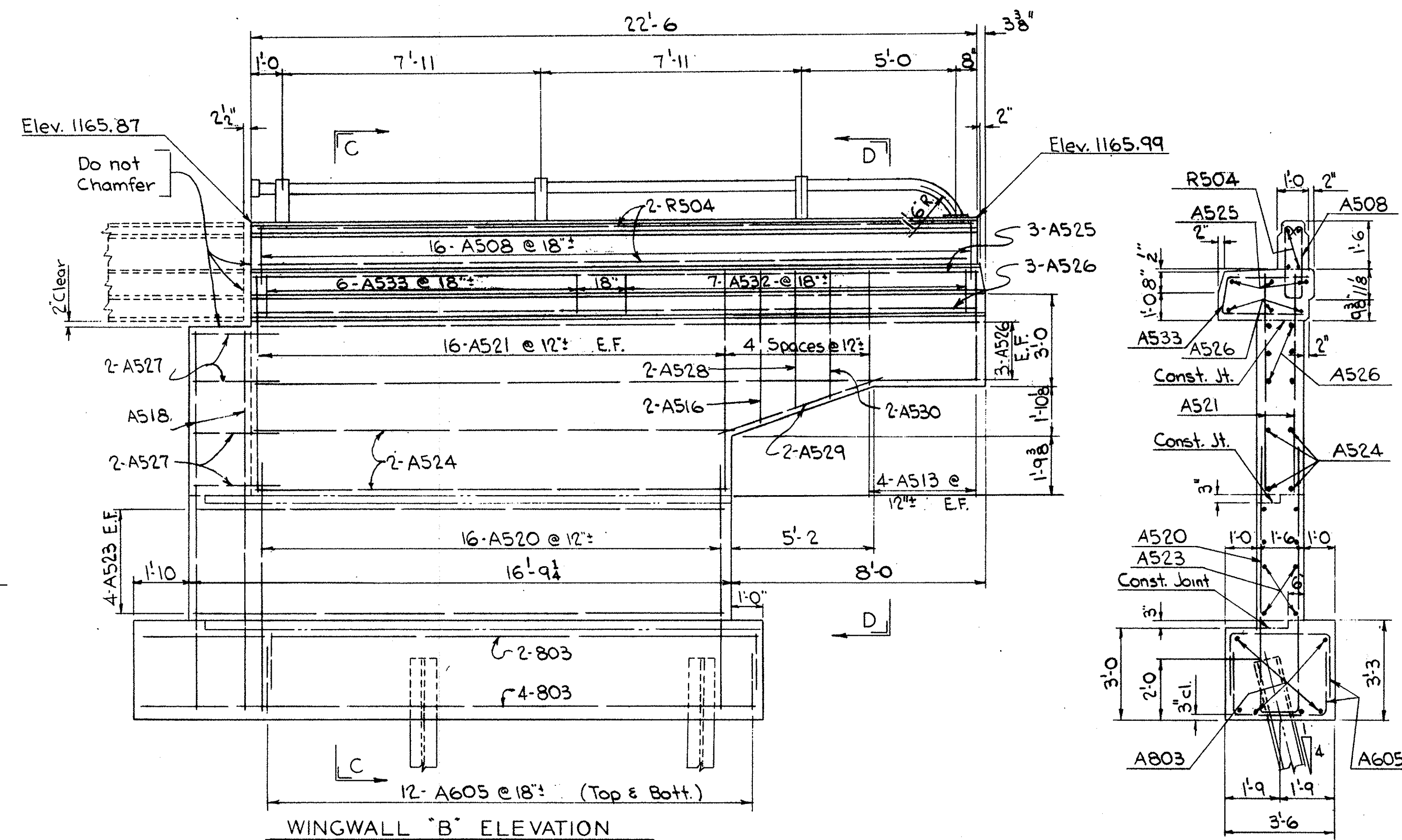
SUMMIT COUNTY
SUM-8-1.89



SECTION B-B

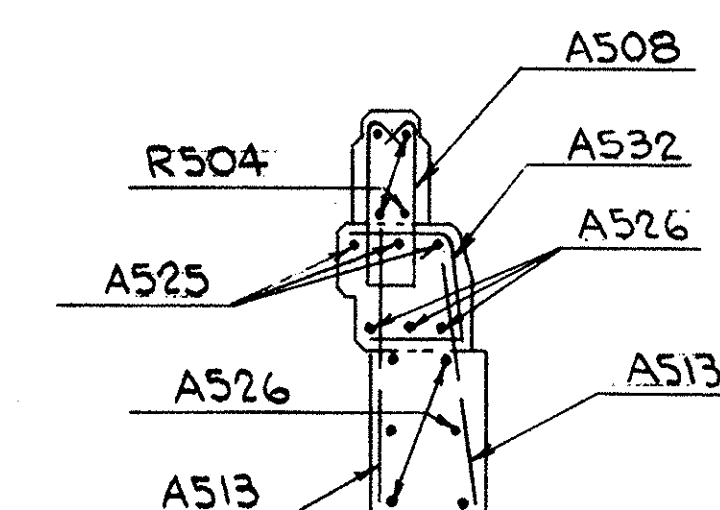


SECTION "A-A"



SECTION "C-C"

Note:
Place bars to miss piles



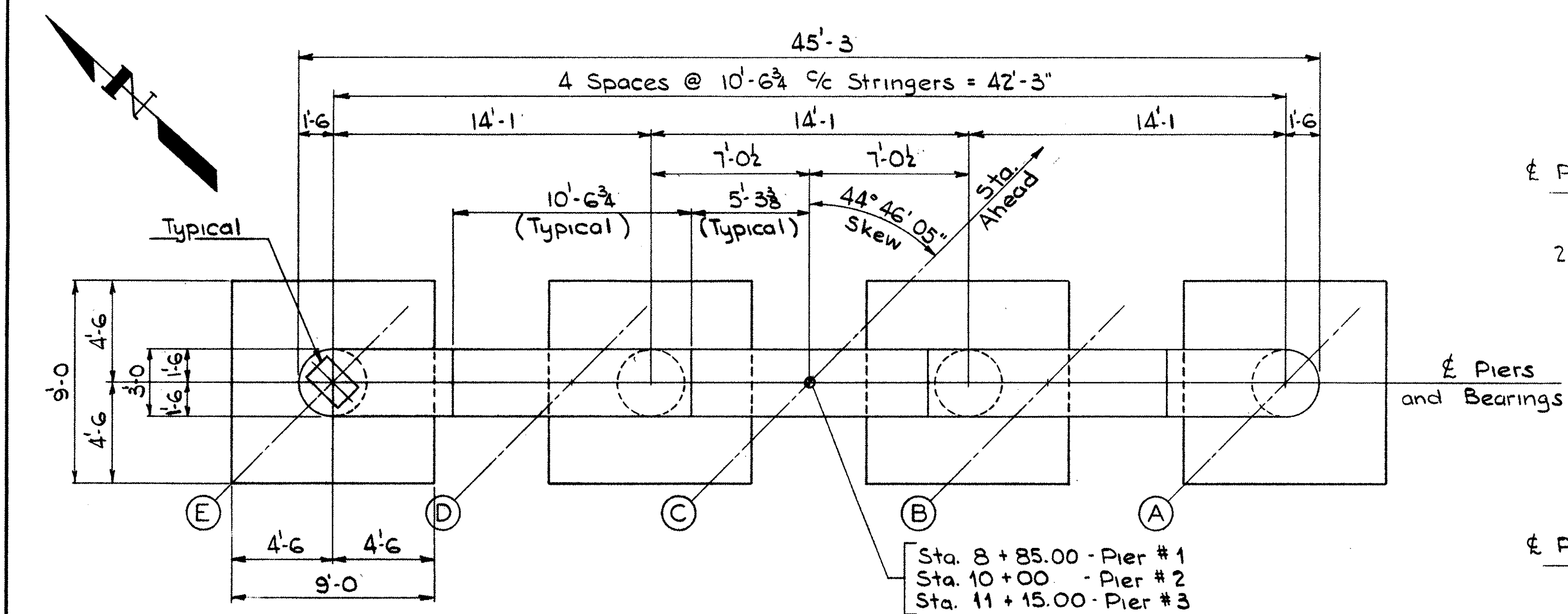
SECTION D-D

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ROCHESTER, PENNSYLVANIA

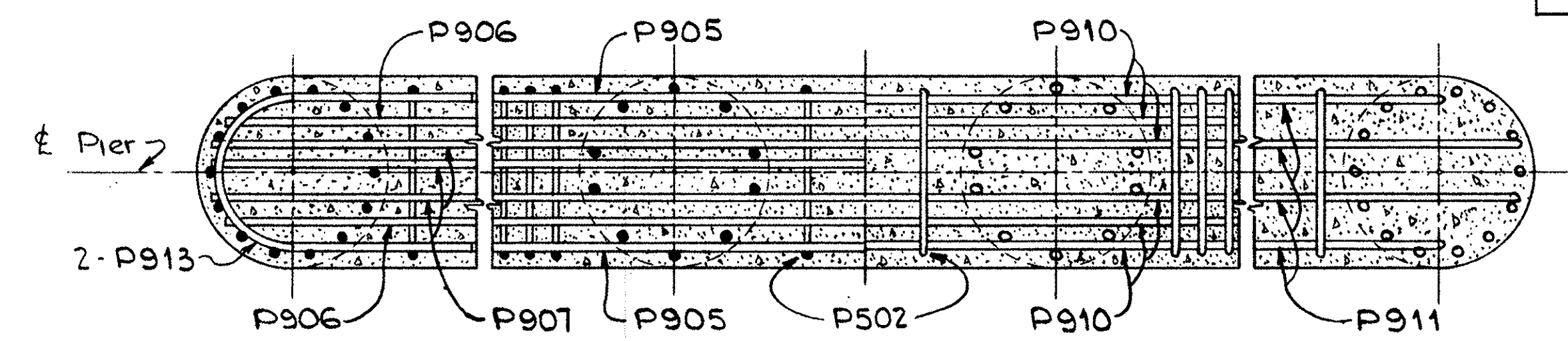
ABUTMENT #1 DETAILS
BRIDGE NO. SUM-8-0554
SR 8 UNDER
TURKEY FOOT LAKE ROAD
Sta. 292 + 49.66

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	dg		A.A.	L.G.H. 10/26/61	

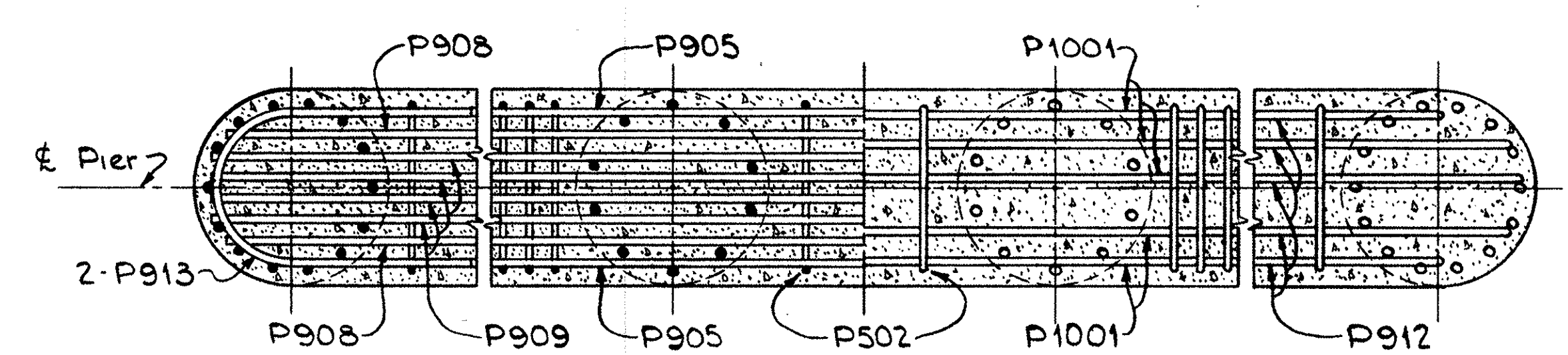
SUMMIT COUNTY
SUM-8-1.89



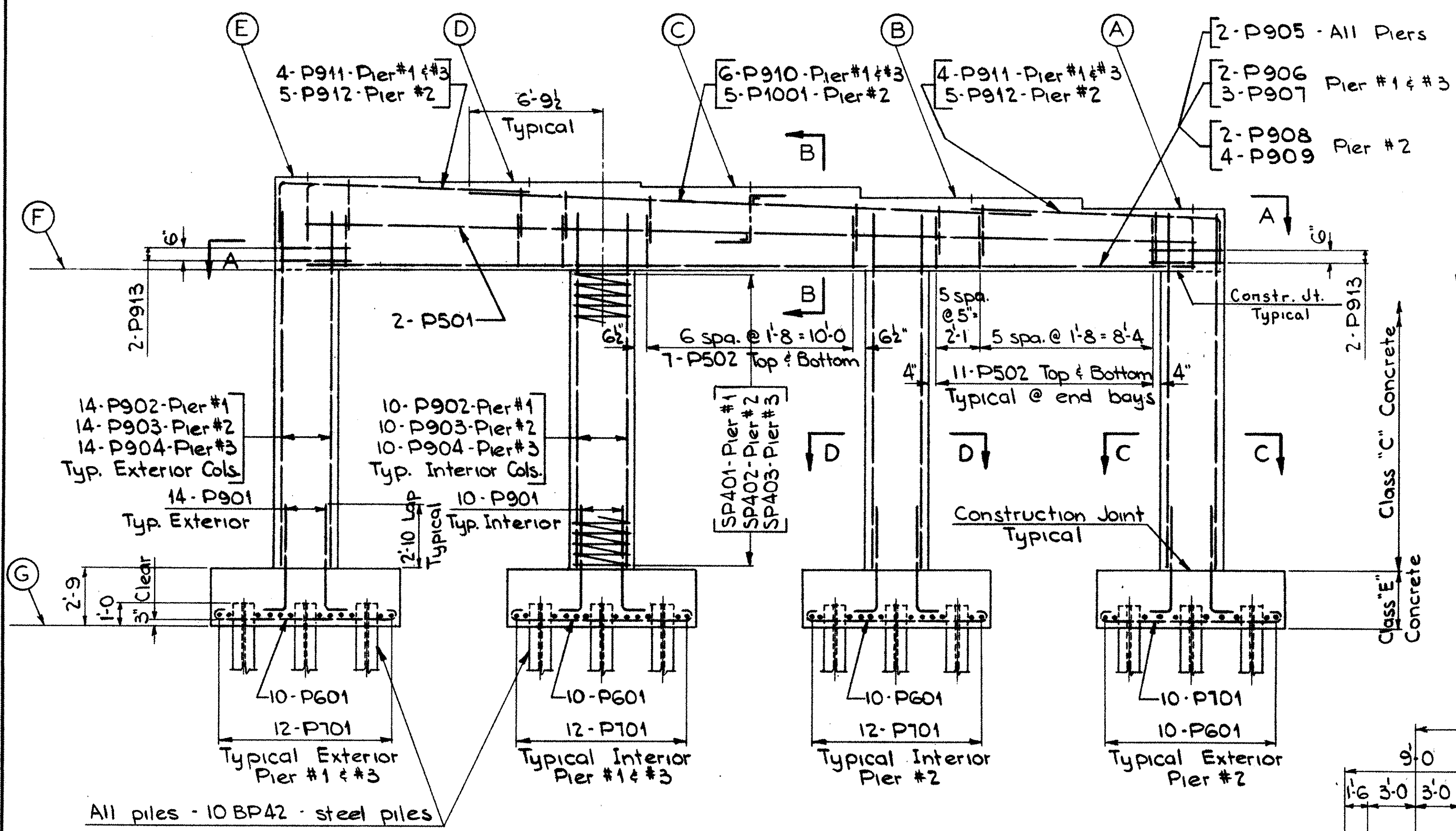
PLAN - PIER NO.1 - NO.2 - NO.3



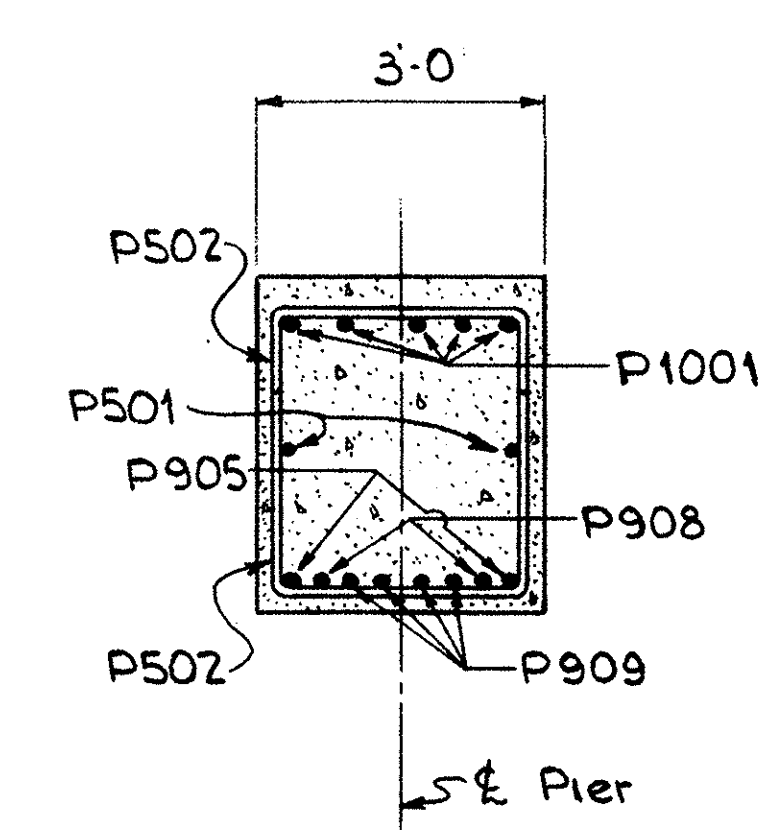
SECTION 'A-A' PIER NO.1 & NO.3



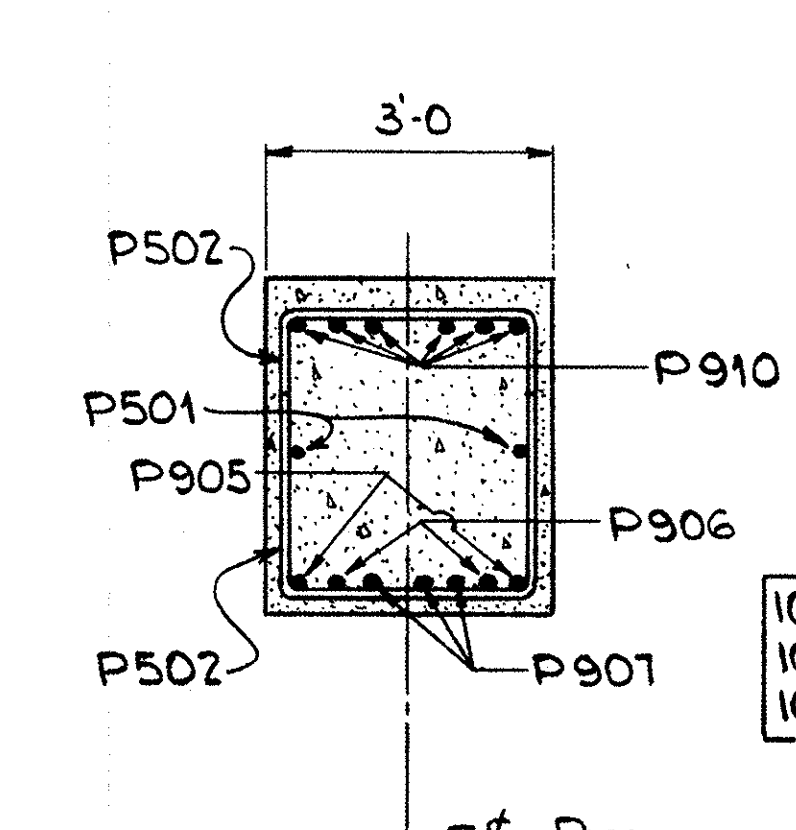
SECTION 'A-A' PIER NO.2



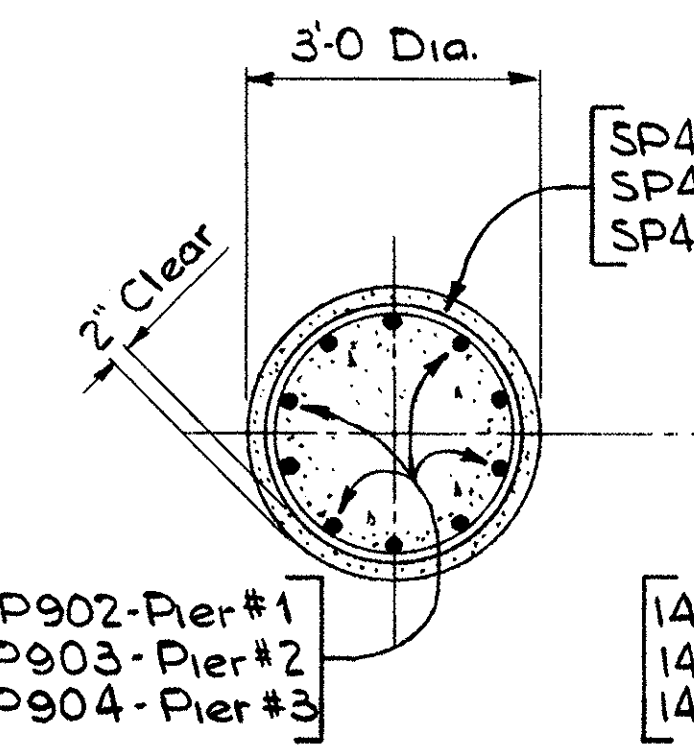
ELEVATION



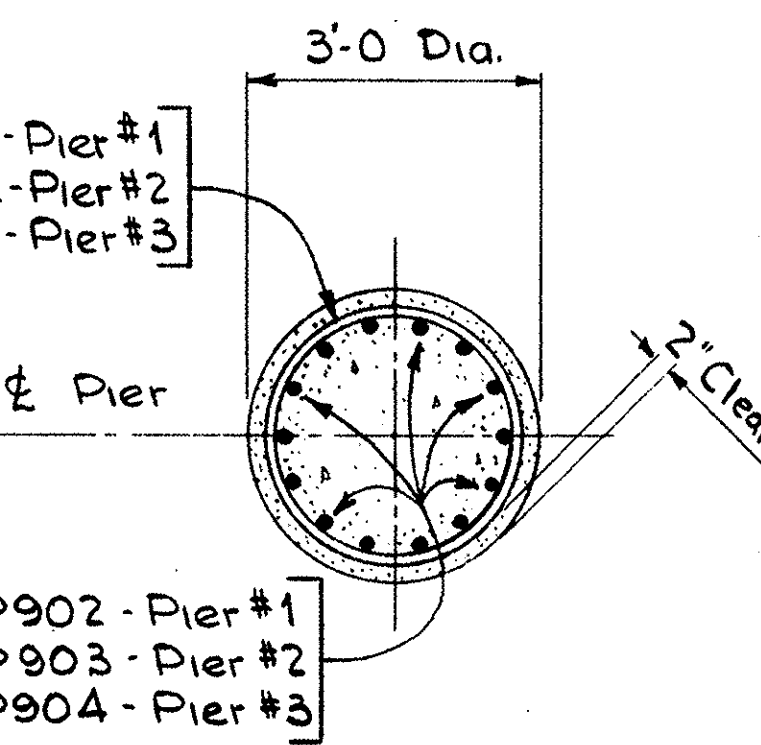
SECTION 'B-B' PIER NO.2



SECTION 'B-B' PIER NO.1 & NO.3

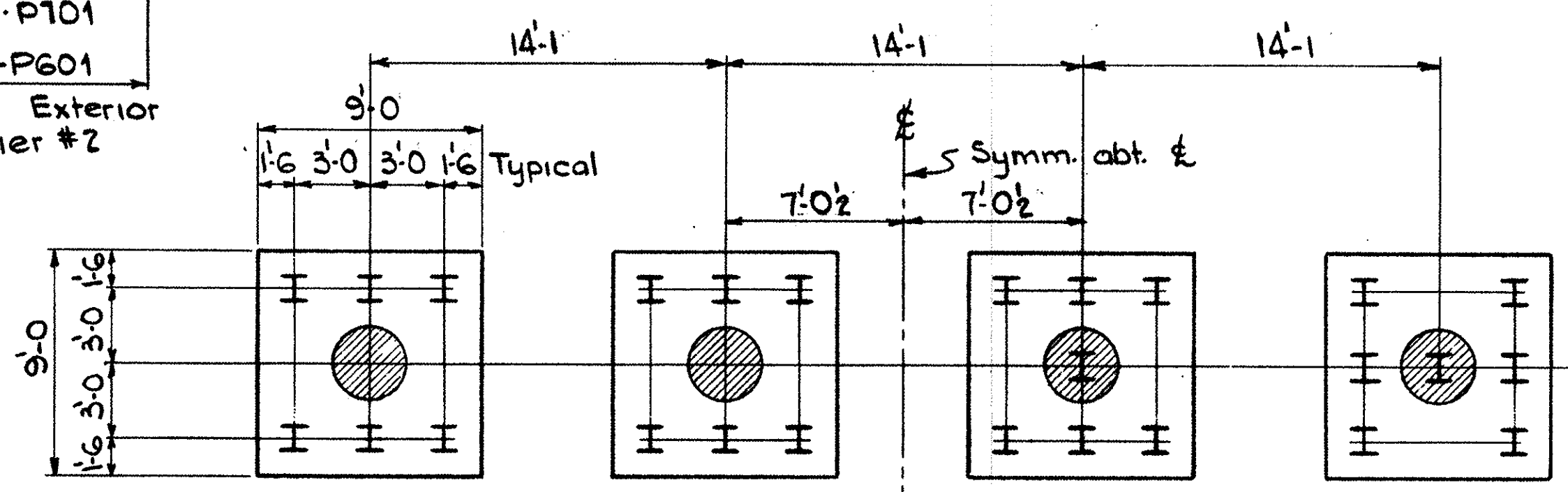


SECTION 'D-D' INTERIOR COLUMNS



SECTION 'C-C' EXTERIOR COLUMNS

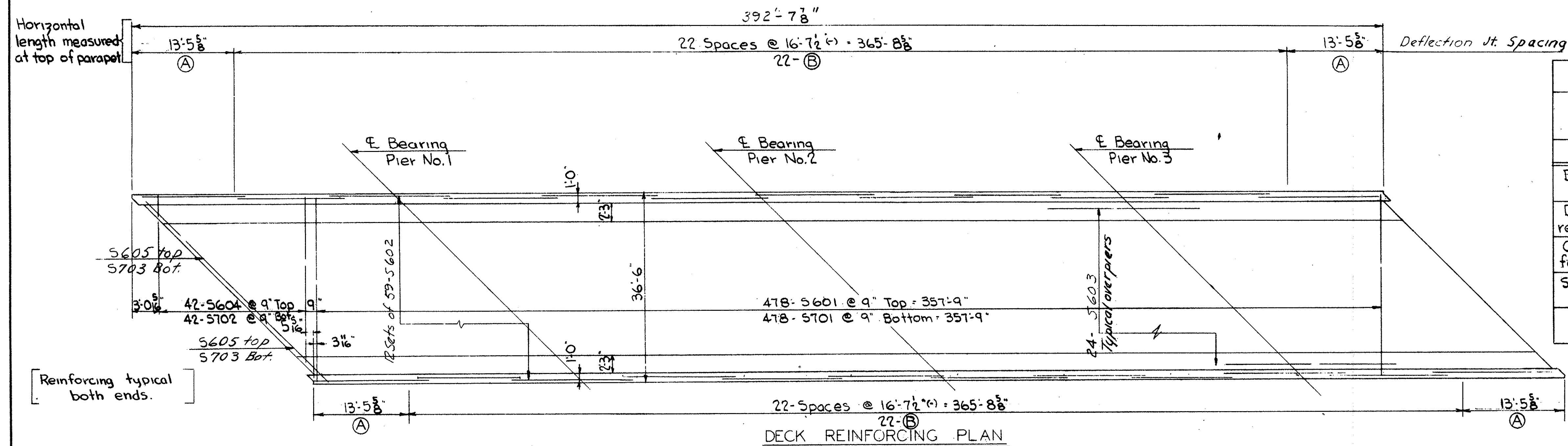
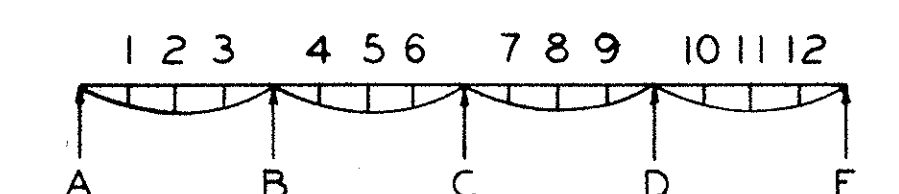
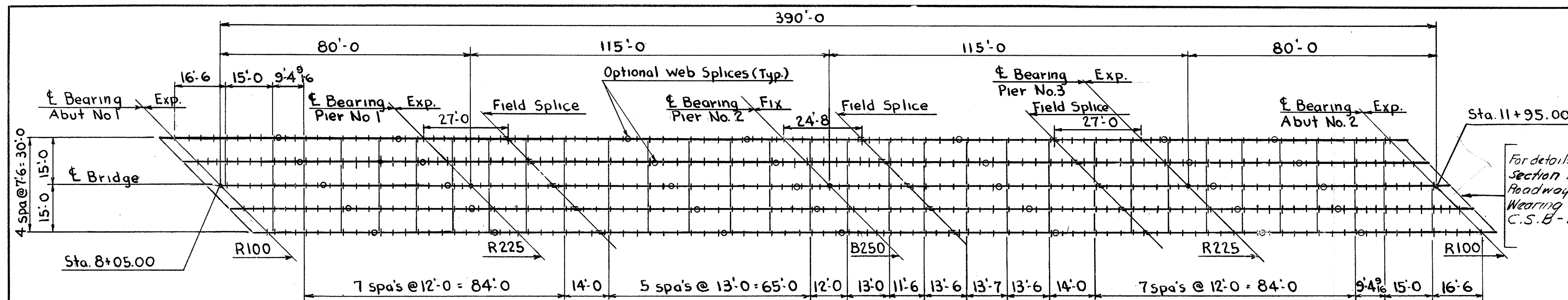
NOTES:
Special care shall be taken in placing reinforcing steel in the pier cap No. 2 so that it will not interfere with the bolster anchor bolts.



PILE PLAN

PIER ELEVATIONS							
PIER NO.	A	B	C	D	E	F	G
1	1155.43	1155.63	1155.83	1155.79	1155.75	1152.43	1131.08
2	1153.55	1153.81	1154.07	1154.09	1154.10	1150.55	1134.10
3	1150.96	1151.28	1151.59	1151.67	1151.74	1147.96	1131.20

MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA						
PIER DETAILS BRIDGE NO. SUM-8-0554 SR 8 UNDER TURKEY FOOT LAKE ROAD Sta. 292 + 49.66						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED	
A.A.	FWM		DWP.	2.6.61		

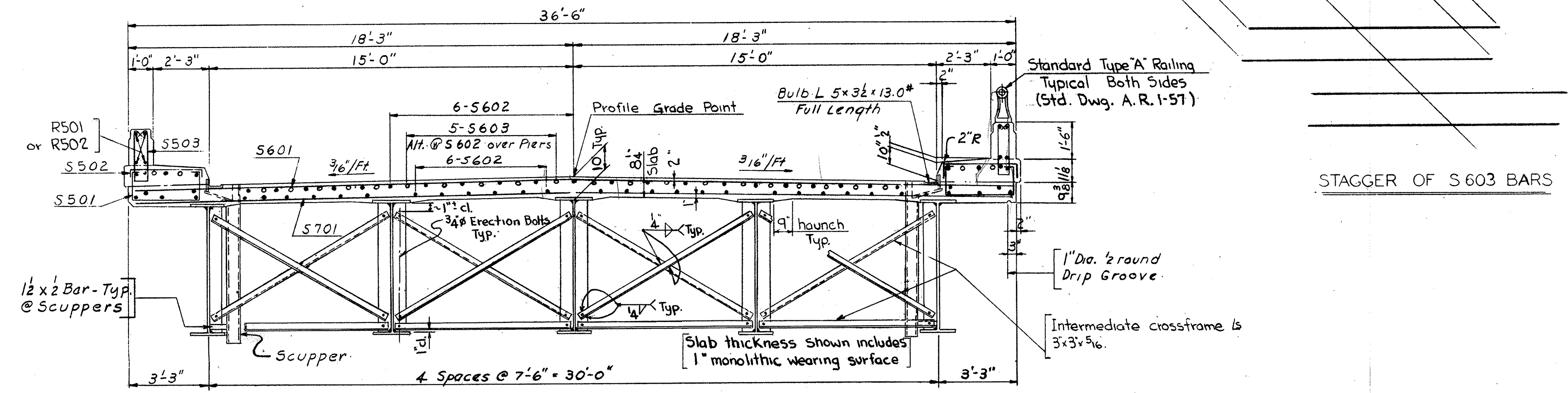


DEFLECTION AND CAMBER												
LOCATION	INSIDE BEAMS						OUTSIDE BEAMS					
	SEE CAMBER DIAGRAM						SEE CAMBER DIAGRAM					
POSITION	1	2	3	4	5	6	7	8	9	10	11	12
Deflection due to weight of steel	1'6"	1'6"	1'6"	1'8"	1'4"	1'8"	1'6"	1'6"	1'6"	1'6"	1'6"	1'6"
Deflection due to remaining dead load	1'4"	5'6"	1'8"	1'2"	1'6"	1'6"	1'8"	5'6"	1'4"	1'6"	1'6"	1'6"
Convexity required for vertical curve	7'6"	9'6"	7'6"	1'1"	5'6"	1'2"	5'6"	1'2"	7'6"	9'6"	7'6"	1'2"
Sum of Deflection and Convexity	3'4"	15'6"	5'8"	5'8"	2'8"	1'2"	1'6"	1'6"	5'8"	15'6"	5'8"	3'4"
Required Camber	1'1"	0'1"	1'8"	2'8"	1'2"	0'1"	1'1"	0'1"	1'8"	2'8"	1'2"	1'1"

"A" = 10-S501 & 10-S502 & 10-S503 and 4-R501
 "B" = 12-S501 & 12-S502 & 12-S503 and 4-R502

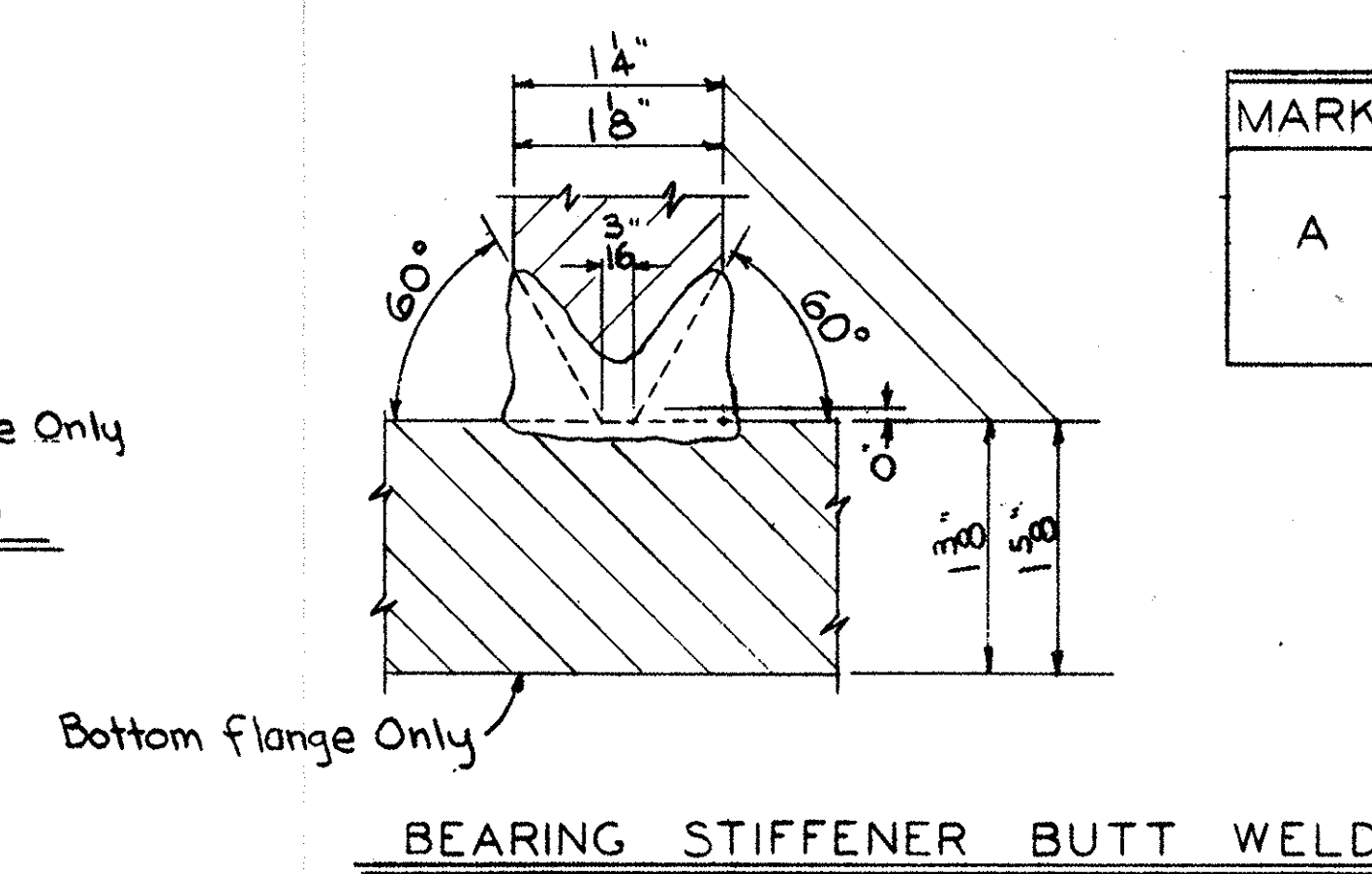
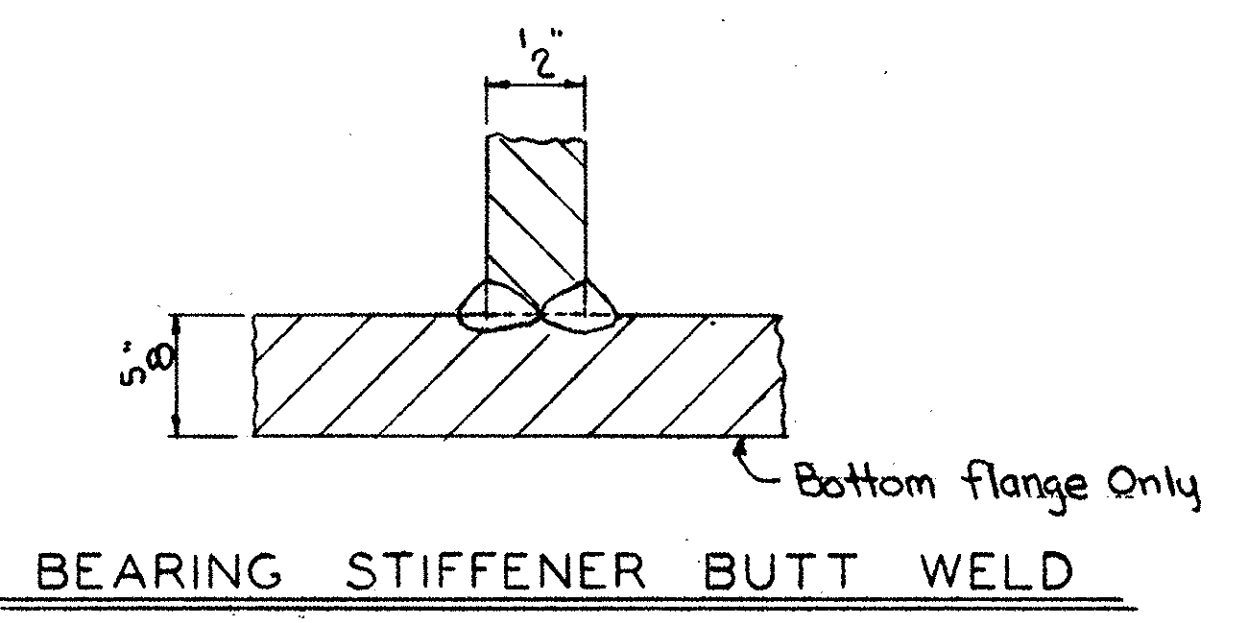
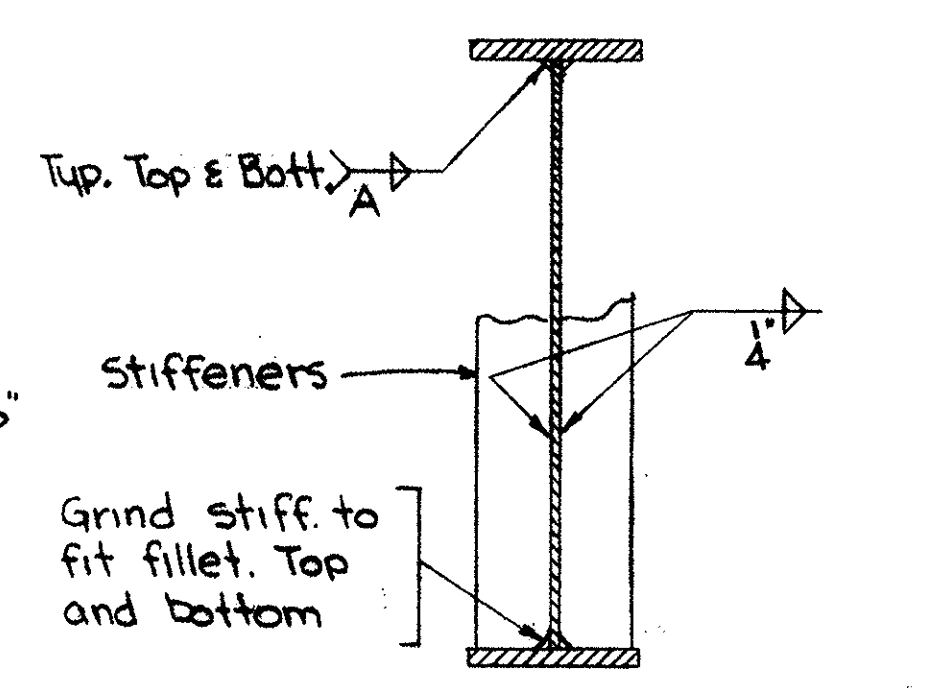
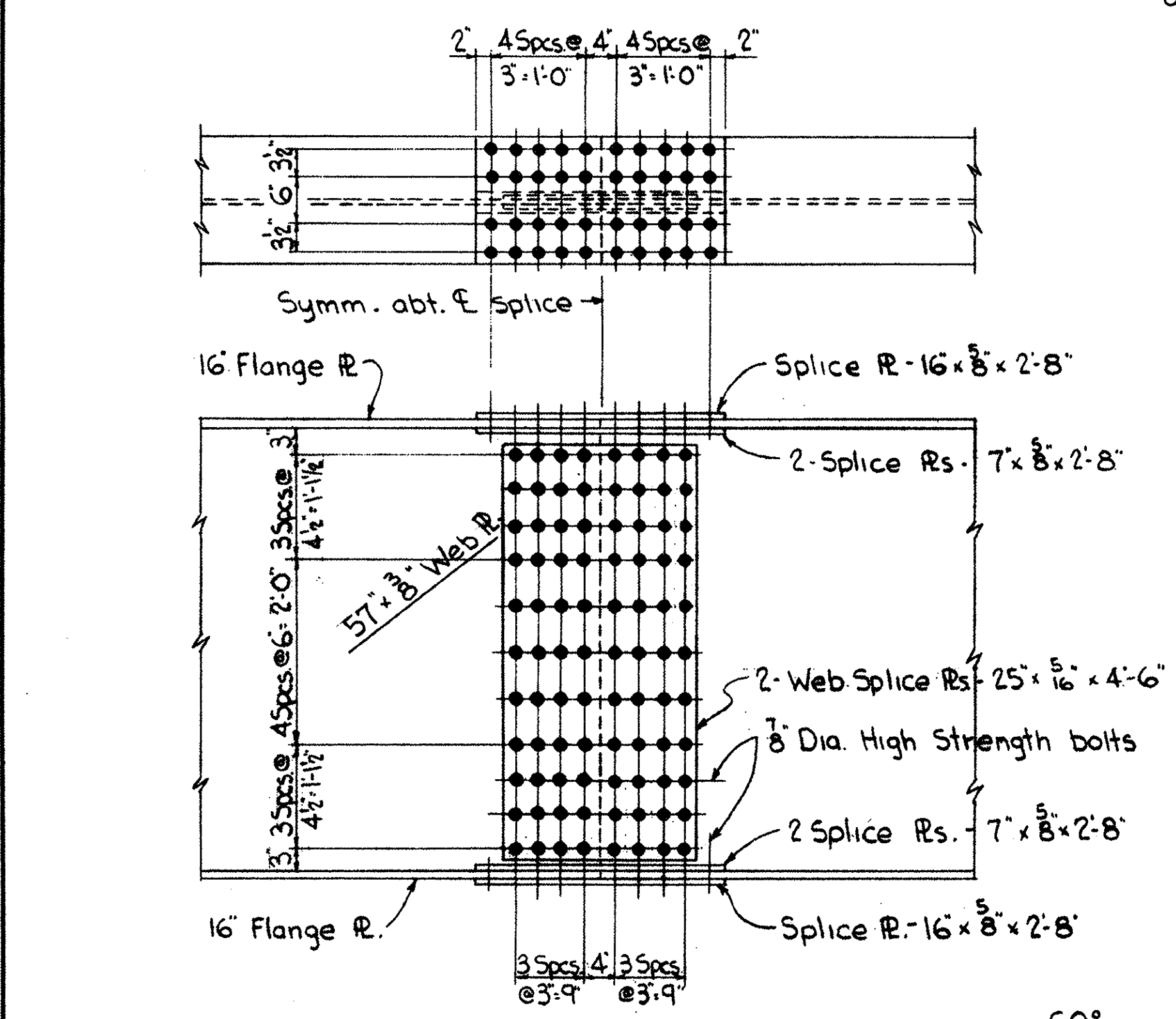
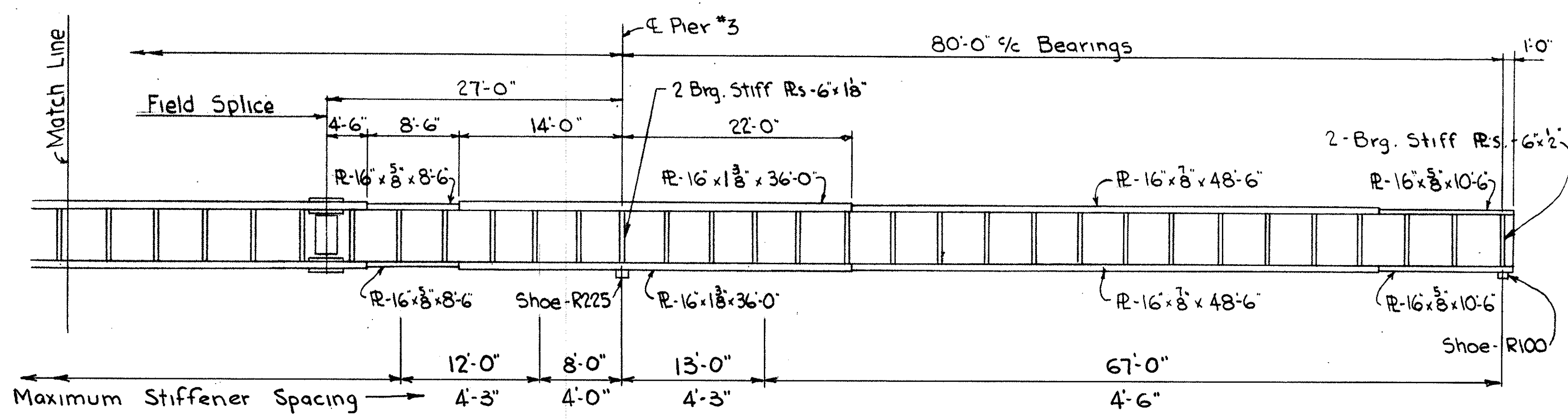
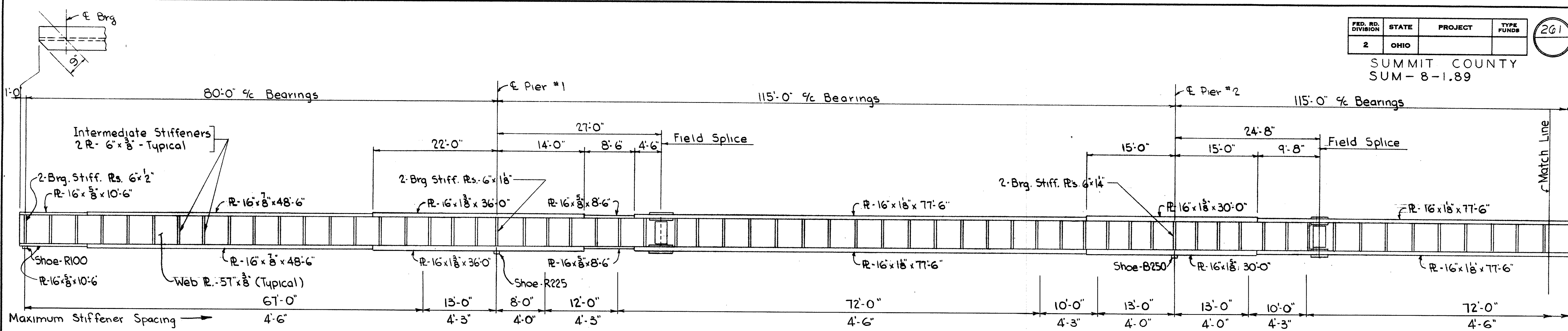
CURB REINFORCING GROUPS

Note:
 • Refer to Std. Dwg. CSB-2-56, sheet 3 of 6 for details of scuppers, bulb angle gutter supports, and curb plates.
 • Refer to Std. Dwg. RB-1-55 for bearing details.



STAGGER OF S 603 BARS

MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA					
SUPERSTRUCTURE BRIDGE NO. SUM-8-0554 SR 8 UNDER TURKEY FOOT LAKE ROAD Sta. 292 + 49.66					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	S.J.F. S.G.		A.A.	L.G.H. 10/26/61	

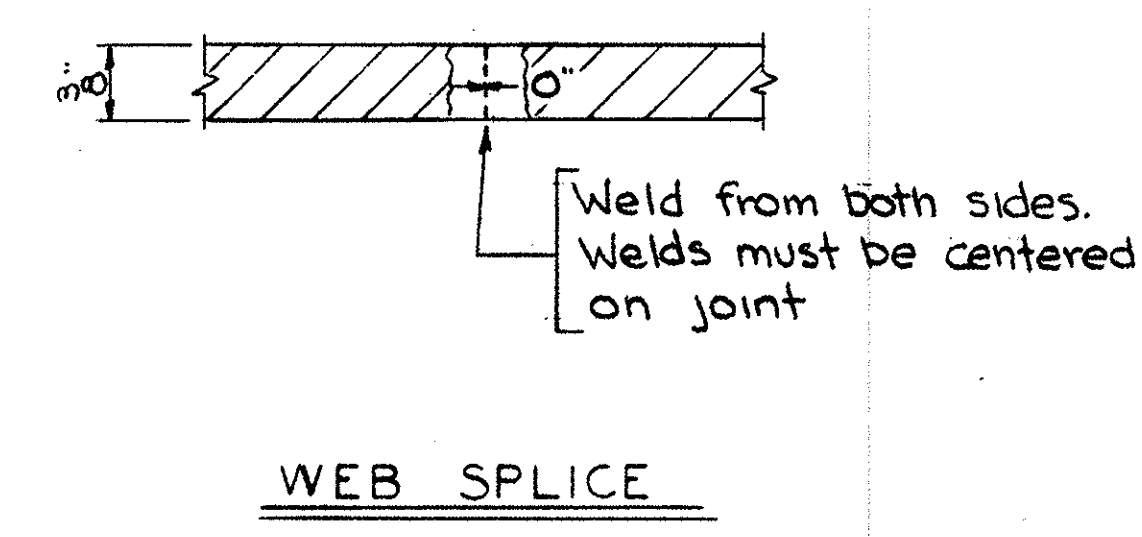
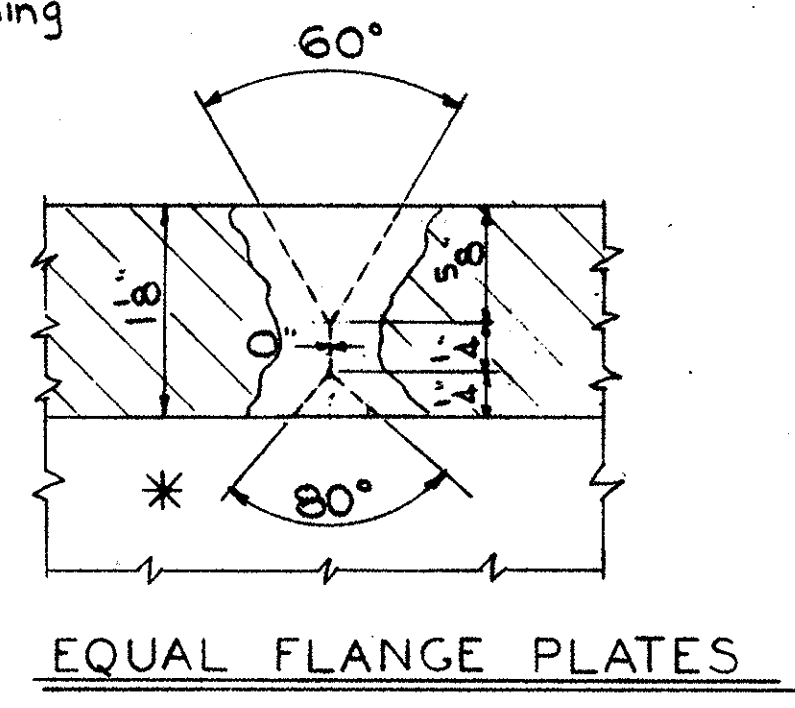
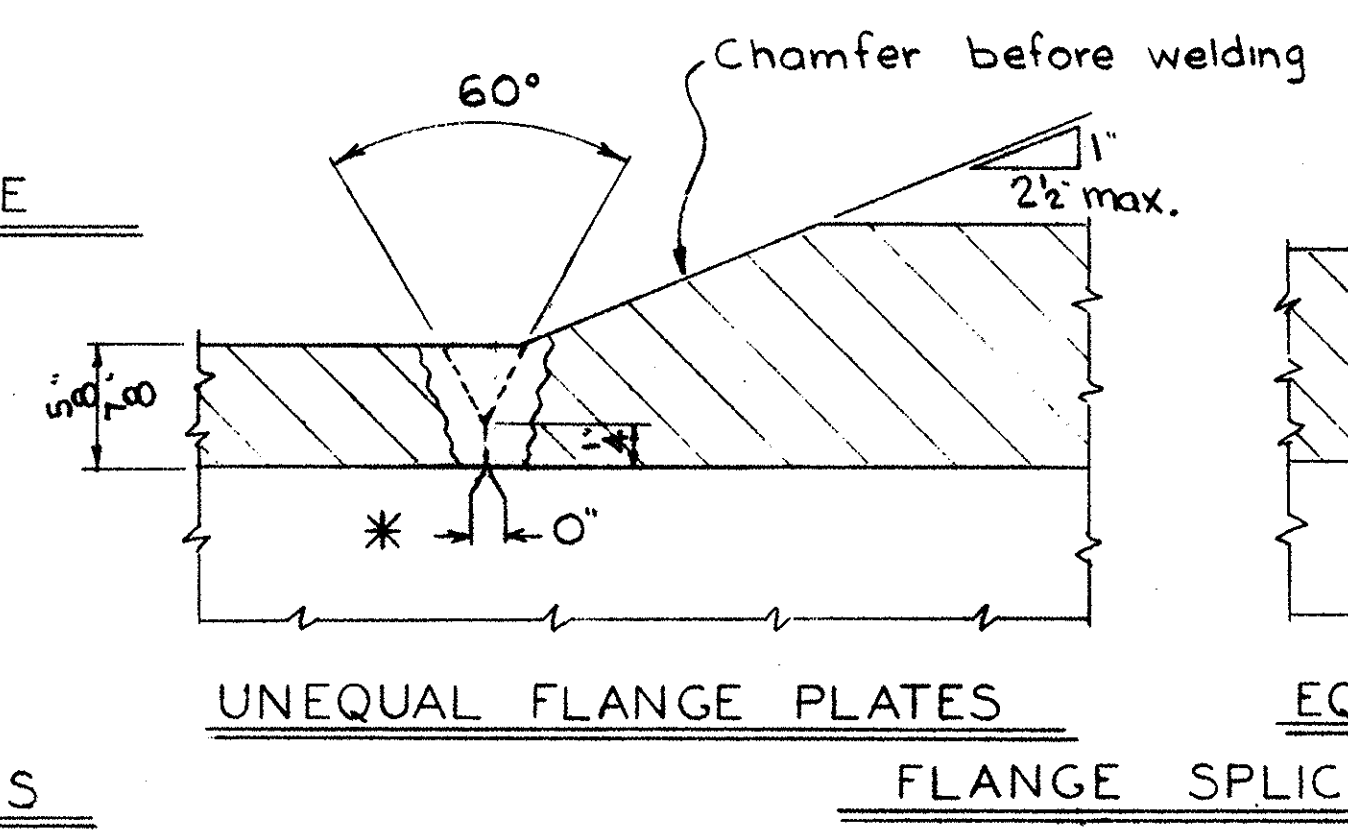
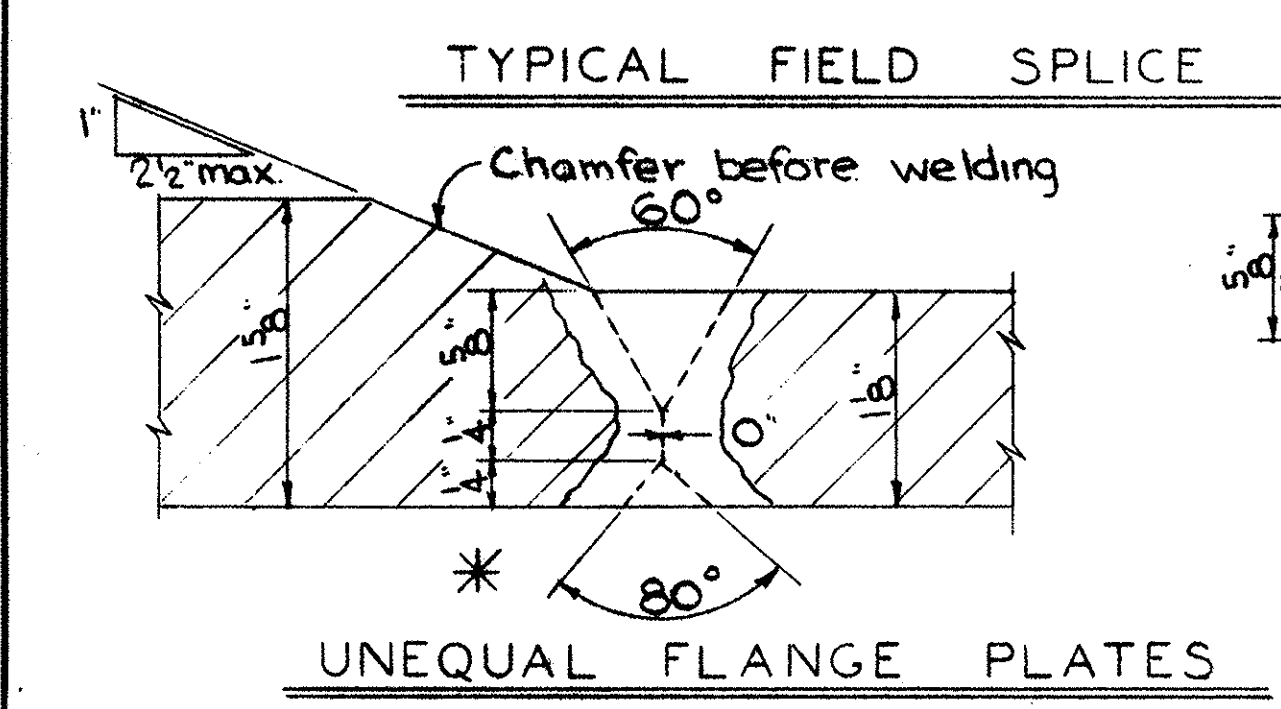


MARK	R. THICKNESS	LEG SIZE OF FILLET WELD
A	5/8"	1/4"
	7/8" or 1 1/8"	5/16"
	1 1/8" or 1 3/8"	3/8"

TABLE OF WELD SIZES

Notes:

- Welded Plate Girders: If additional shop splices are necessary, their locations and detail shall be submitted to the Director for approval.



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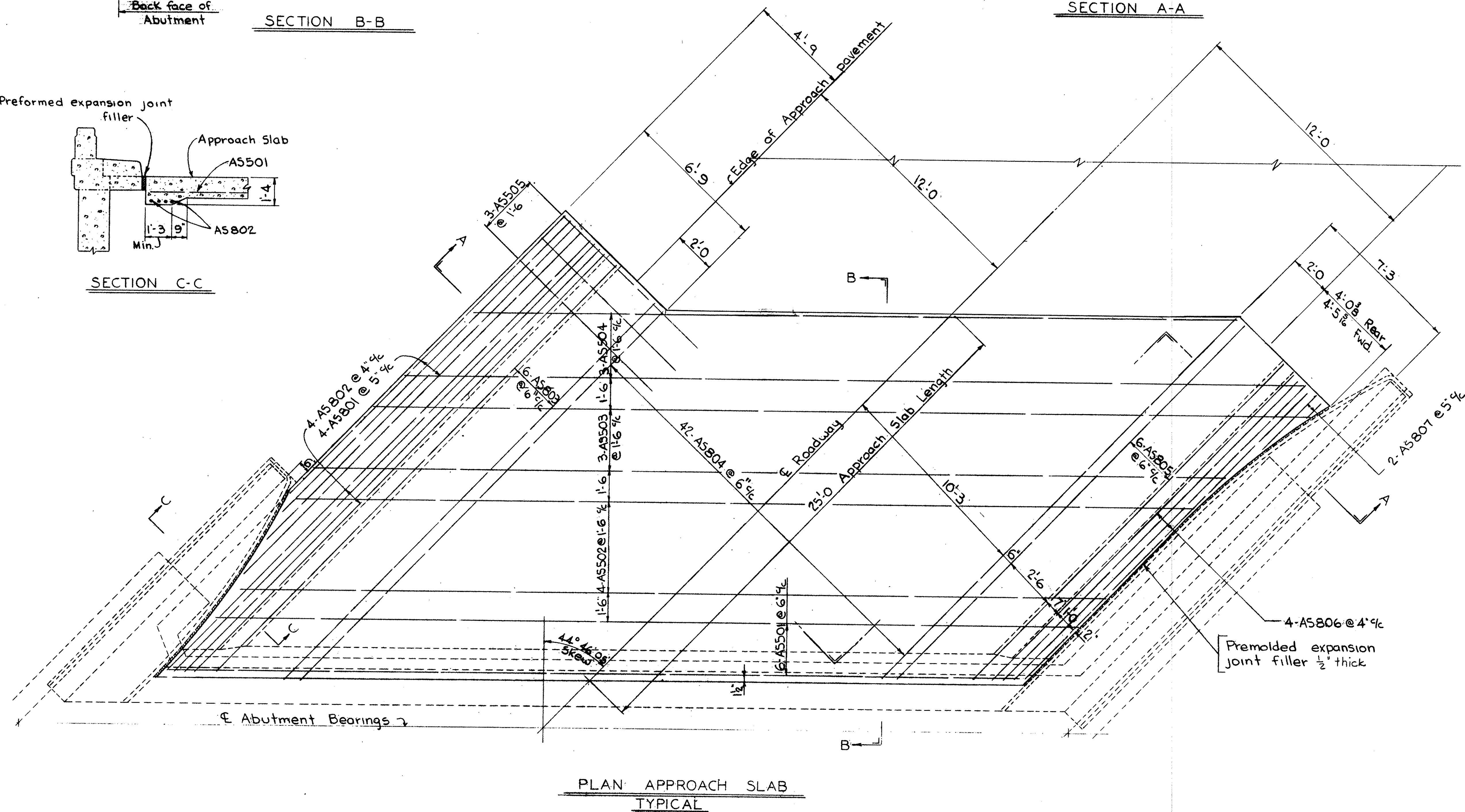
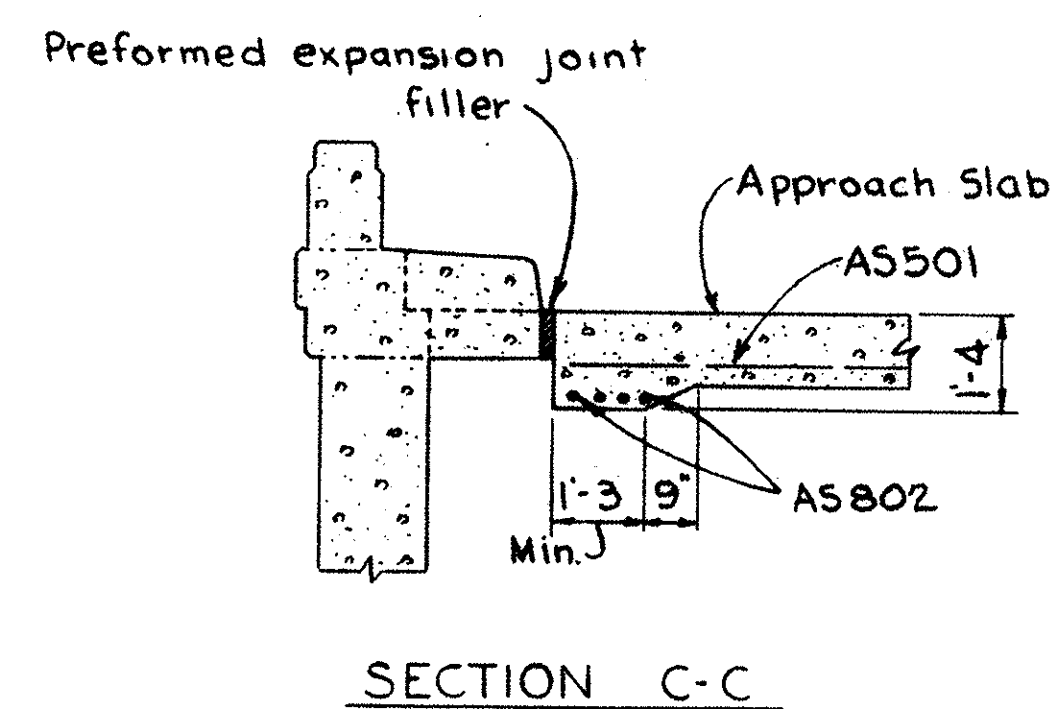
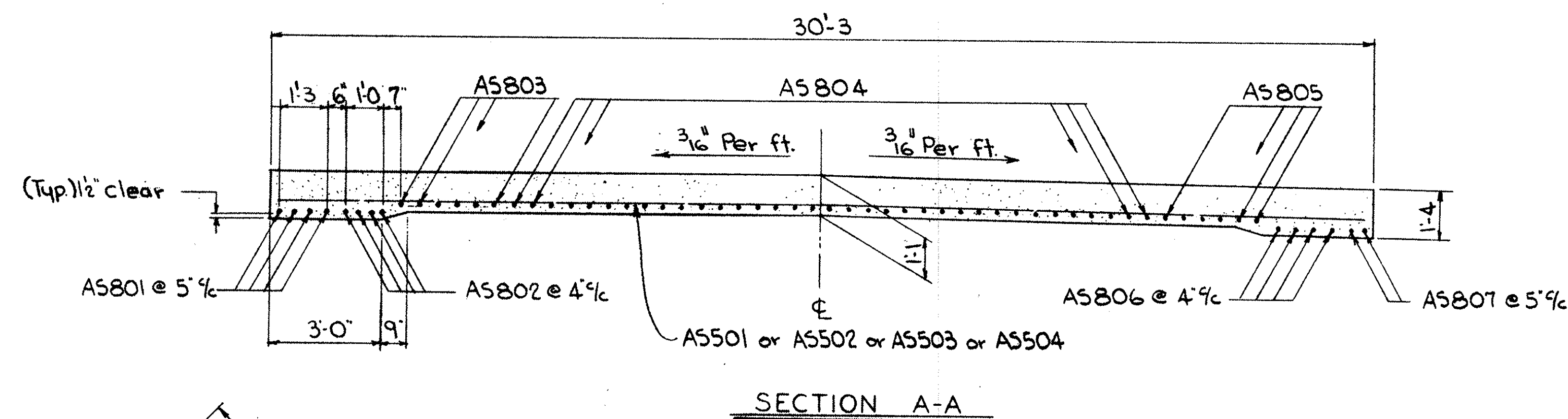
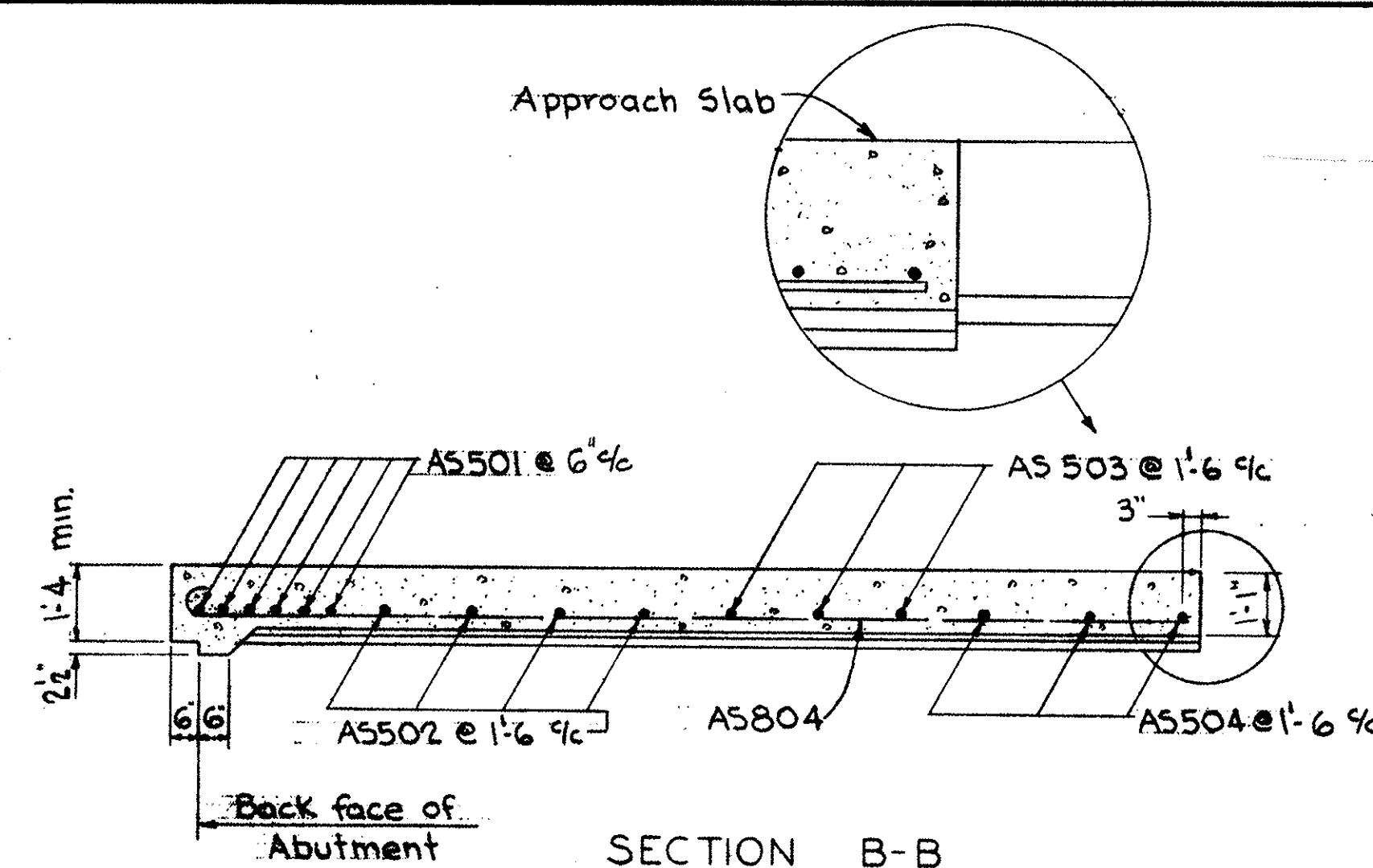
GIRDER DETAILS
BRIDGE NO SUM-8-0554
SR 8 UNDER
TURKEY FOOT LAKE ROAD
Sta. 292 + 49.66

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	Dg		A.A.	L.G.H. 10/26/61	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

262

SUMMIT COUNTY
SUM-8-1.89



MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA					
APPROACH SLABS BRIDGE NO. SUM 8-0554 SR 8 UNDER TURKEY FOOT LAKE ROAD Sta. 292 + 49.66					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	Dog		A.A.	2.6.64 10/26/61	