

FED. RD. DIVISION	STATE	PROJECT	124 225
2	OHIO		

ROSS COUNTY R05-35-25.05

EXISTING BRIDGE DATA
 Bridge No: R05-35-253
 Type: Continuous Steel Truss Bridge with Concrete Floor and Substructure
 Spans: 2 Units @ 195'-234'-195' Bearings.
 1250' % End Pins
 Roadway: 24' plus 1'-4" Sidewalk on Right
 Loading: H-15-33
 Skew: None
 Wearing Surface: 3/4" Monolithic Concrete
 Approach Slab: 25' Long
 Condition: Good
 Disposition: To remain in place

PROPOSED BRIDGE DATA
 TYPE: Welded Hinged Girder with Concrete Deck and Substructure.
 SPAN: 93.6'-3@117'-126'-140'-126'-3@117'-93.6'.
 ROADWAY: 33'-0" flt of 6' Curbs.
 SKEW: 0°-00'
 LOAD FREQUENCY: C.F-2000 (57)
 WEARING SURFACE: 1" Monolithic Concrete
 APPROACH SLABS: AS-1-6T (25' Long)
 RAILING: Aluminum Rail and Supports with Concrete Parapet.
 ALIGNMENT: Tangent.

DRAINAGE AREA
 3,859 Square Miles

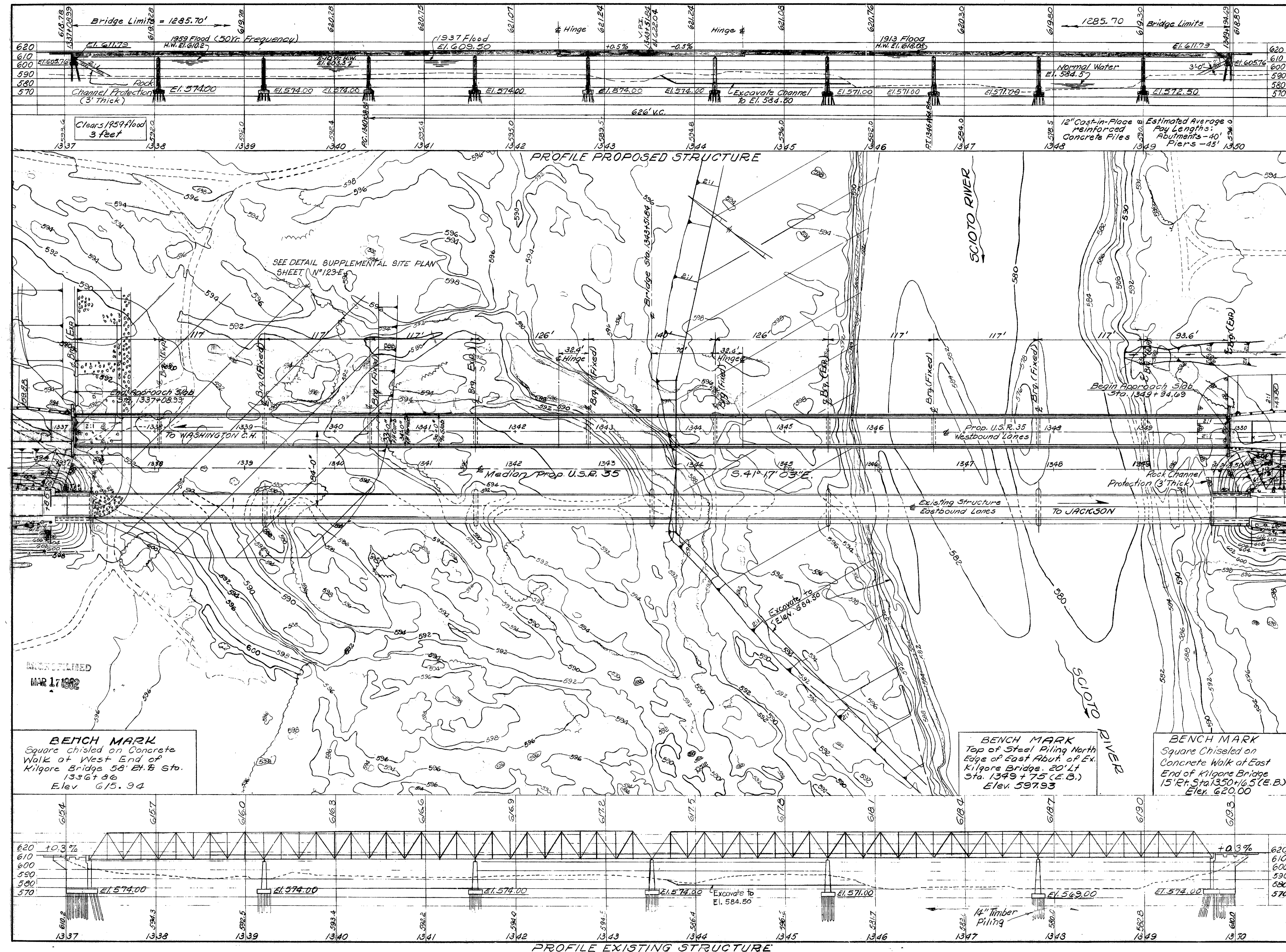
Q₅₀ = 144,000 C.F.S.

1976 Equivalent Passenger Vehicles = 9380 Vehicles per day.

ELMERS BARRETT ASSOCIATES
 Consulting Engineers
 245-249 S. Paint Street Chillicothe, Ohio

SITE PLAN
 BRIDGE No. R05-35-2532L
 U.S.R. 35 over SCIOTO RIVER
 ROSS COUNTY U.S.R. 35
 STA. 1337+08.99 TO STA. 1349+94.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.I.G.	L.P.			FAB	10/24/64	



BENCH MARK
 Square chiseled on Concrete Walk at West End of Kilgore Bridge 58' E. of Sta. 1336+86
 Elev. 615.94

BENCH MARK
 Top of Steel Piling North Edge of East Abut. of Ex. Kilgore Bridge. 20' Lt Sta. 1349+75 (E.B.)
 Elev. 597.93

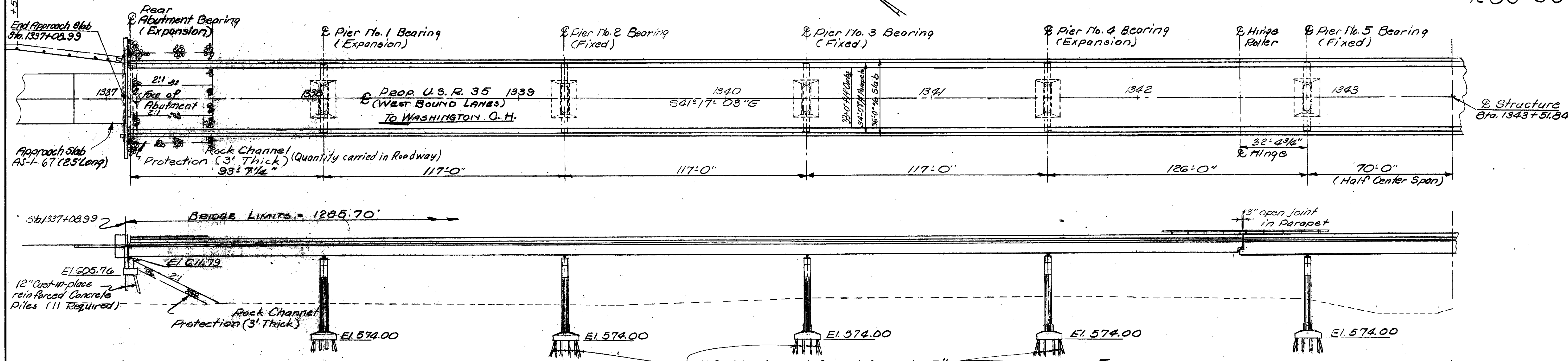
BENCH MARK
 Square Chiseled on Concrete Walk at East End of Kilgore Bridge 15' Rt. Sta. 1350+65 (E.B.)
 Elev. 620.00

RECORDED
 MAR 17 1962

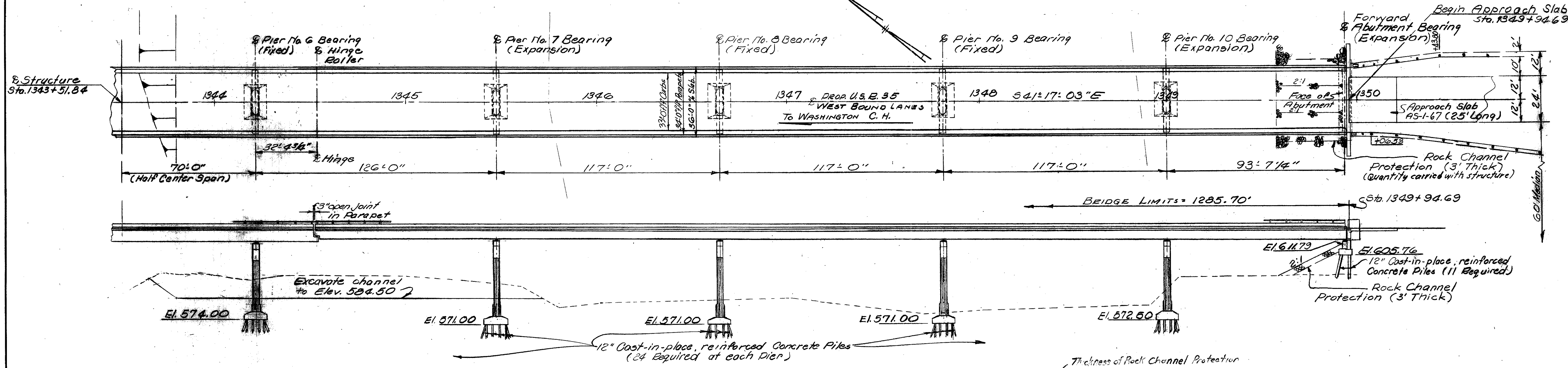
MICROFILMED
MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT	125 225
2	OHIO		

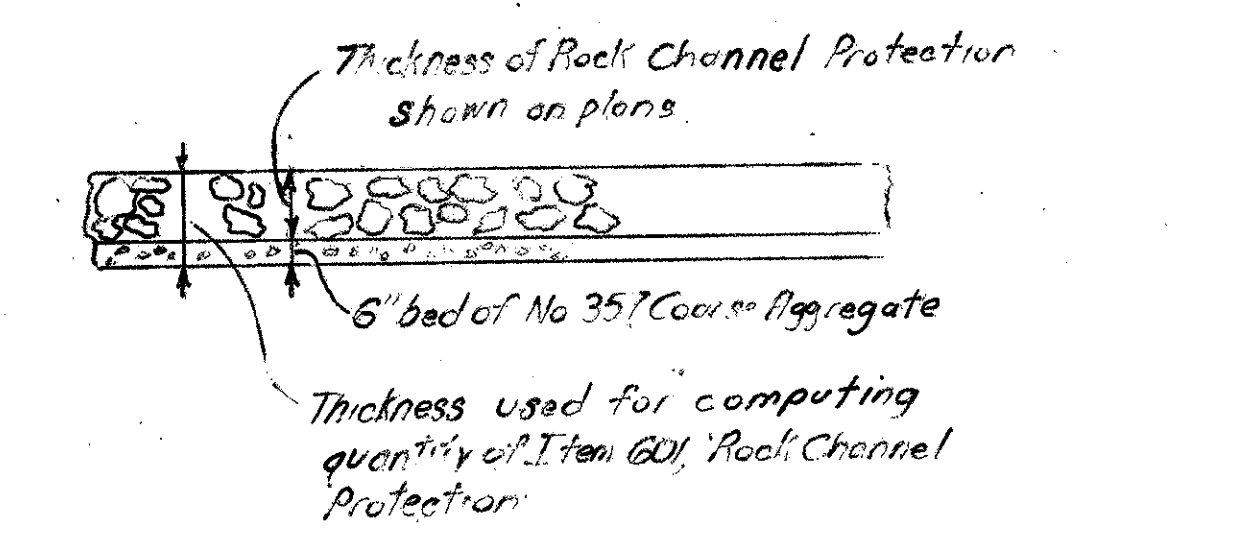
ROSS COUNTY
ROS-35-25.05



HALF GENERAL PLAN AND ELEVATION
(WEST HALF)



HALF GENERAL PLAN AND ELEVATION
(EAST HALF)



DETAIL OF ROCK CHANNEL PROTECTION

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
GENERAL PLAN AND ELEVATION BRIDGE NO. ROS-35-2532L U.S.R. 35 OVER SCIOTO RIVER ROSS COUNTY U.S.R. 35 STA. 1337+00.99 TO STA. 1349+94.69					
SCALE	DATE	DESIGNED	CHECKED	APPROVED	DATE
M.G.	R.J.M.	F.H.	W.K.		10/29/64

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPER	GENERAL	AS BUILT
503	Lump	Sum	Cofferdams, Cribbs and Sheeting				Lump	
503	1744	Cu. Yds.	Unclassified Excavation	93	1651			
601	670	Cu. Yds.	Rock Channel Protection Type A				670	
511	1433	Cu. Yds.	Class C Concrete, Superstructure			1433		
511	691	Cu. Yds.	Class C Concrete, Pier Stems and Caps		691			
511	93	Cu. Yds.	Class C Concrete, Abutments above Footings	93				
511	310	Cu. Yds.	Class C Concrete, Footings	61	249			
825	5830	Sq. Yds.	Concrete Surface Treatment	46		5784		
509	520,453	Pounds	Reinforcing Steel	10,805	98,703	410,945		
513	1,819,700	Pounds	Structural Steel			1,819,700		
514	1,819,700	Pounds	Field Painting of Structural Steel			1,819,700		
517	2,565.08	Lin. Ft.	Railings (aluminum rail and supports and concrete parapet)			2,565.08		
505	Lump	Sum	First Pile Test Load				Lump	
506	Lump	Sum	Subsequent Pile Test Load				Lump	
506	1	Each	Subsequent Pile Test Load				1	
507	11,680	Lin. Ft.	12" Cast-in-place Reinforced Concrete Piles	880	10,800			
518	33	Cu. Yds.	Porous Backfill	33				
518	44	Each	Scuppers, including supports			44		
518	66	Lin. Ft.	6" Helical Perforated CMP, including specials 707.01	66				
518	48	Lin. Ft.	6" Helical CMP, non-perforated 707.01	48				
808	1433	Units	Water Reducing, Set Retarding Admixture			1433		

MICROFILMED
MAR 17 1982

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-67 revised 1-11-68, SD-1-65 revised 11-24-65, BR-1-65 revised 11-24-65, FSB-1-62 revised 1-15-63 and Supplemental Specifications 808 dated 1-1-69, 811 dated 1-1-69, 825 dated 1-1-69, 927 dated 1-1-69. On Std. Dwg. FSB-1-62 reference to M711 shall be considered to read 711.7.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

Design Loading: CF-2000 (57)
Concrete, Class C: basic unit stress - 1,333 p.s.i. Substructure
basic unit stress - 1,133 p.s.i. Superstructure
Structural Steel: ASTM A36, basic unit stress - 20,000 p.s.i.
Reinforcing Steel: ASTM A615, A616, A617 Deformed, Intermediate or Hard Grade. Basic unit stress - 20,000 p.s.i.

PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments for a minimum period of 30 days, after which excavation shall be made for the abutments and piles driven.

EXCAVATION QUANTITY for the abutments includes the removal of fill material required for construction of the abutments. Excavation quantity for the piers includes the removal of material between the surface of the proposed channel and the bottom of the pier footings.

PILES shall be driven to a minimum bearing capacity of 34 tons per pile for the abutments, 46 tons per pile for Piers No. 1, 2, 3, 4, 7, 8, 9, 10 and 43 tons per pile for Piers No. 5 and 6.

WELDS on non-stress carrying members are shown thus ∇

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

STRUCTURAL STEEL: Steel used for the fabrication of rollers and roller bearing plates shall conform to the requirements of Sec. 711.04. All other structural steel shall conform to the requirements of 711.01, ASTM A36.

ITEM 5-7.10, High Strength Steel Bolts, Nuts and Washers, paragraph two (2), shall be completely revised and the last sentence of paragraph four (4) revised to read as follows:
"In the final assembly of the parts to be bolted, drift pins shall be placed in a sufficient number of holes (not less than 25 percent for field erection) to provide and maintain accurate alignment of holes and parts, and sufficient bolts shall be installed and brought to a snug tight condition to bring the parts into complete contact. Bolts shall then be installed in any remaining open holes and tightened to a snug tight fit after which all bolts shall be tightened completely by calibrated wrenches or by the turn-of-nut method. Drift pins shall then be replaced with bolts, tightened in the same manner."
"Bolt lengths determined by the use of Table No. 1 shall be adjusted to the next 1/4-inch length increment."

GIRDER ERECTION: The Contractor shall submit to the Director, for approval, three prints showing his proposed erection procedure for the plate girders.

STAINLESS STEEL FASTENERS shall be properly passivated to remove surface impurities and shall be furnished with a Lustrous finish.

FIELD SPLICE NOTES

BOLTS Shall be 1" diameter high strength. Machine Finish: The concrete bridge deck shall be finished by the use of a finishing machine.

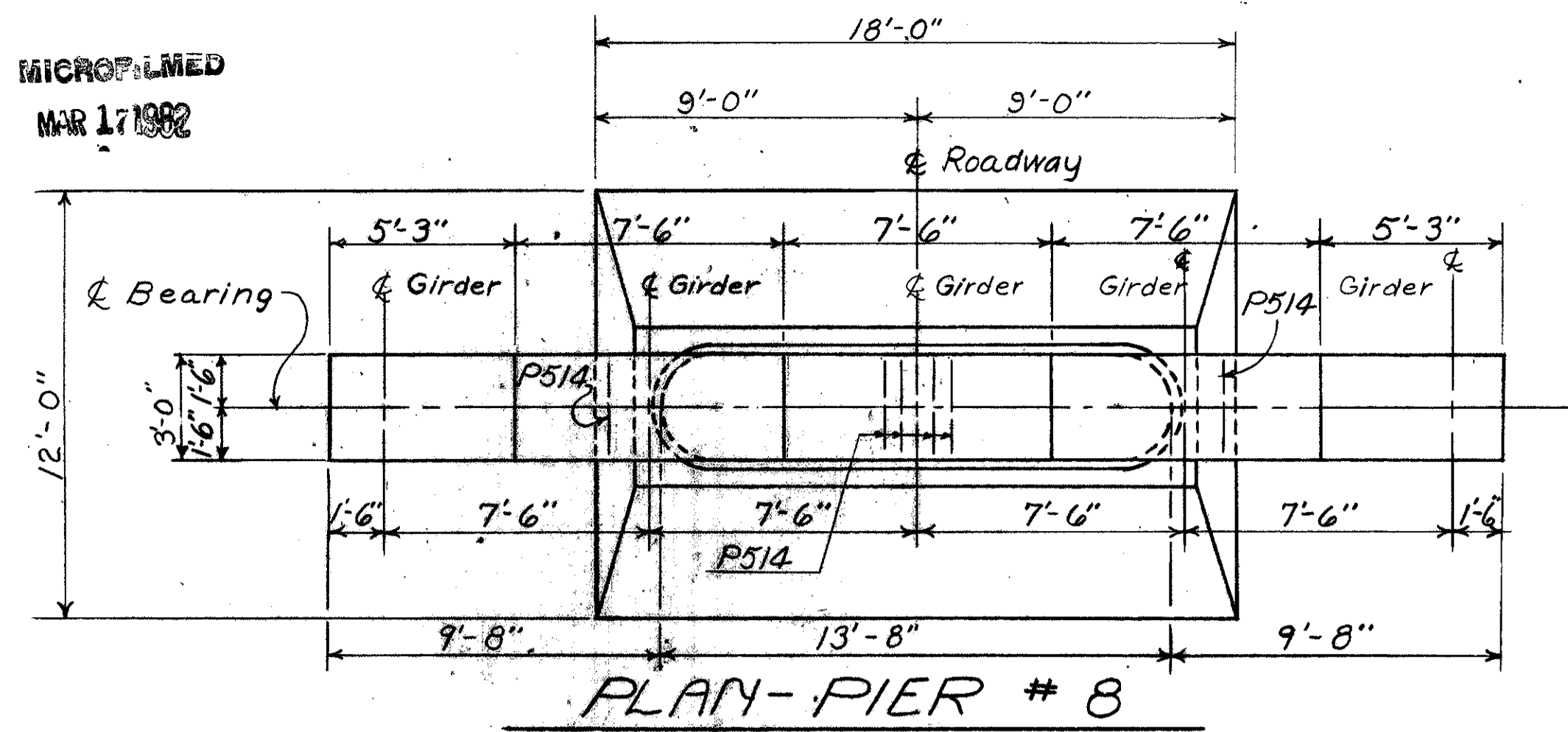
WELDED ATTACHMENTS: No attachments shall be made by field welding to the top flanges or flange plates of continuous beams or plate girders within a distance of 0.10 of the span length on either side of the interior supports. Welding for attachments to the top flanges at other parts of the spans shall be kept at least 2" from the edge of flange.

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

ESTIMATED QUANTITIES AND GENERAL NOTES
BRIDGE NO. ROS-35-2532L
U.S.R. 35 OVER SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA 1337+08.99 TO STA 1349+94.69

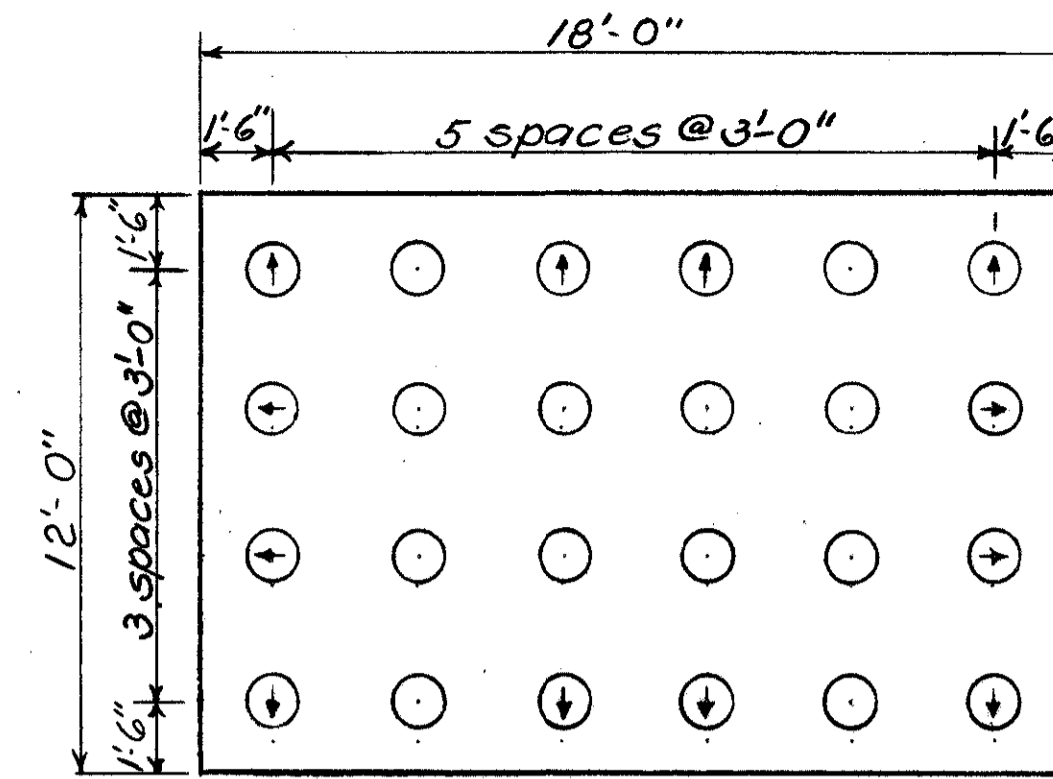
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WIC	RJM		RJM			

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MAR 17 1992



⊕ Denotes direction of batter
Amount of batter ~ 1:4

All piles 12" Cast-in-place Reinforced Concrete



PILE PLAN

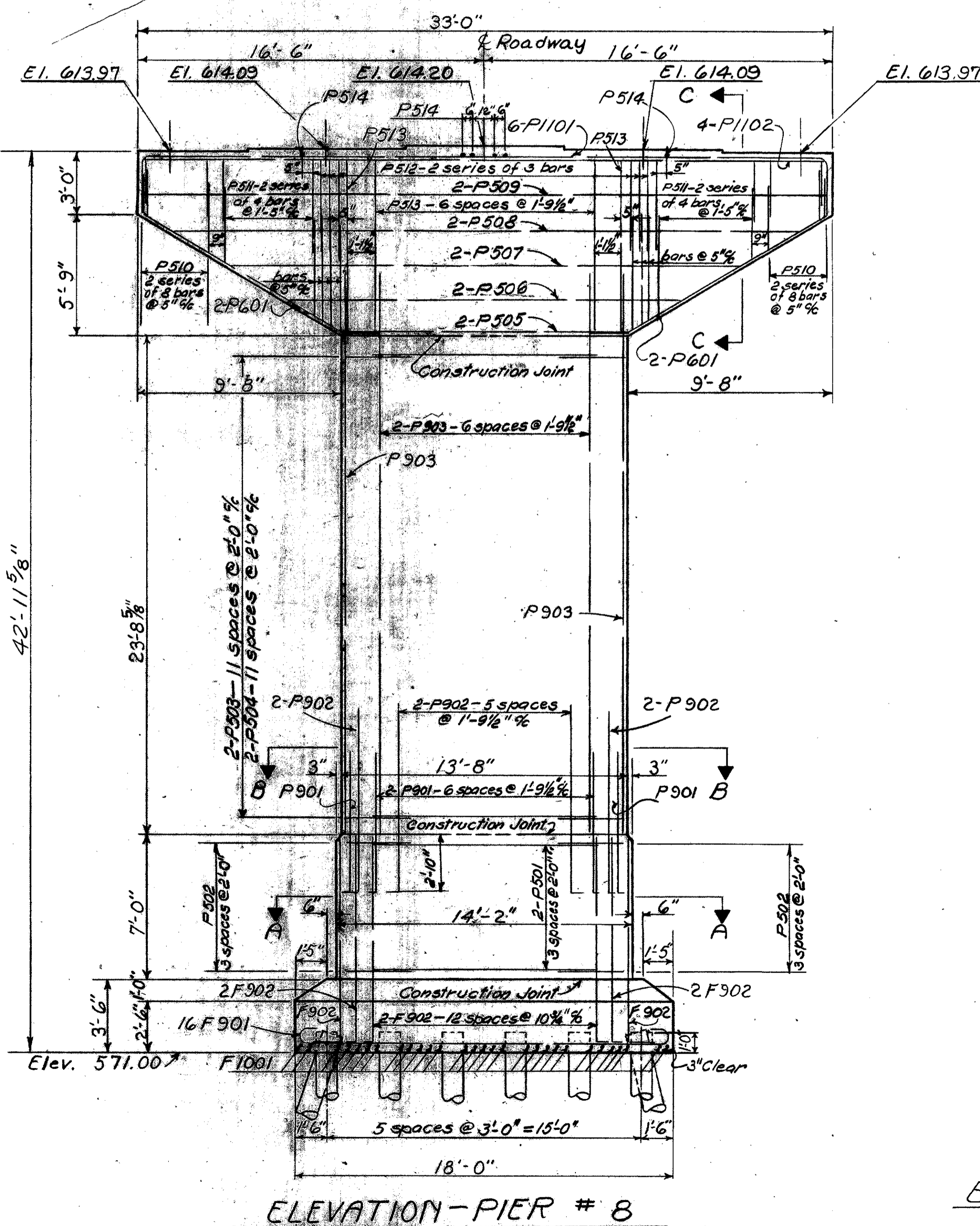
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

128
225

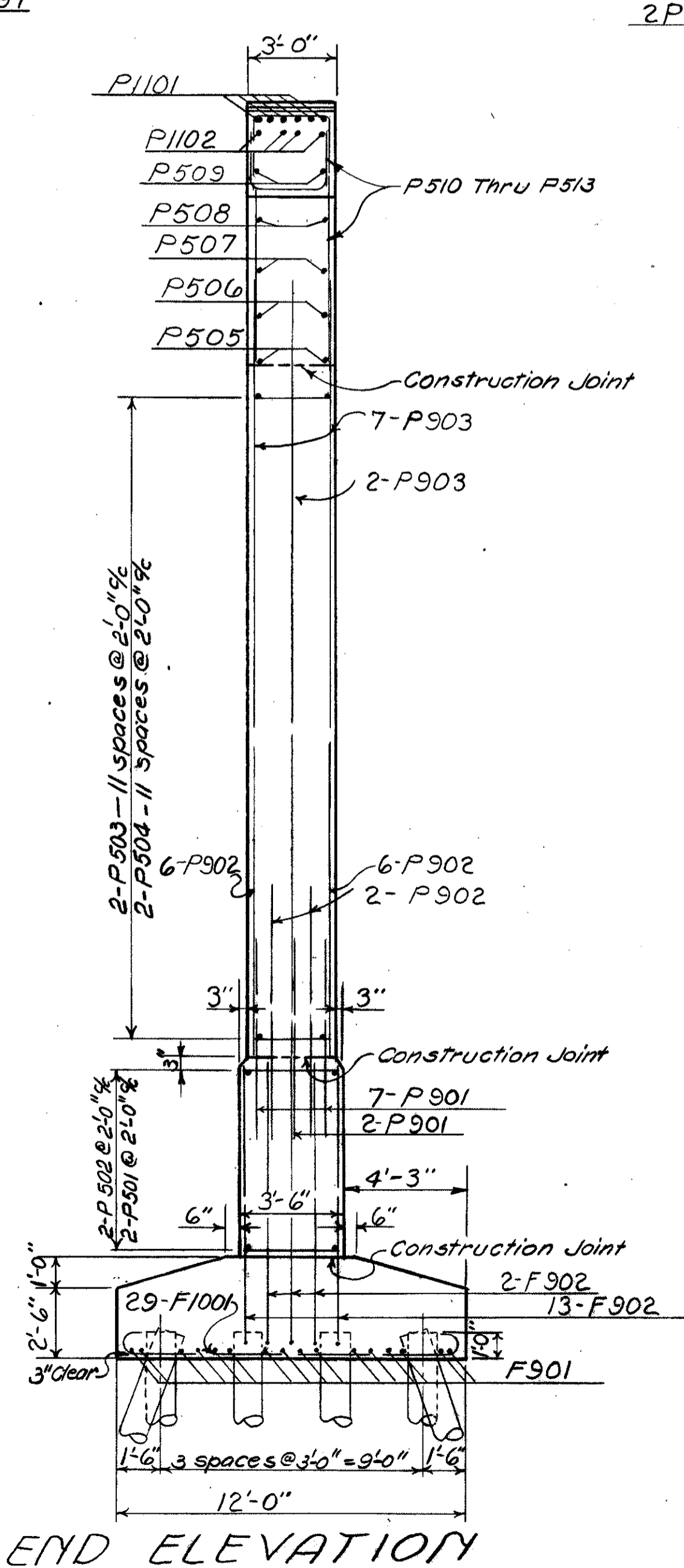
ROSS COUNTY
R05-35-25.05

NOTES

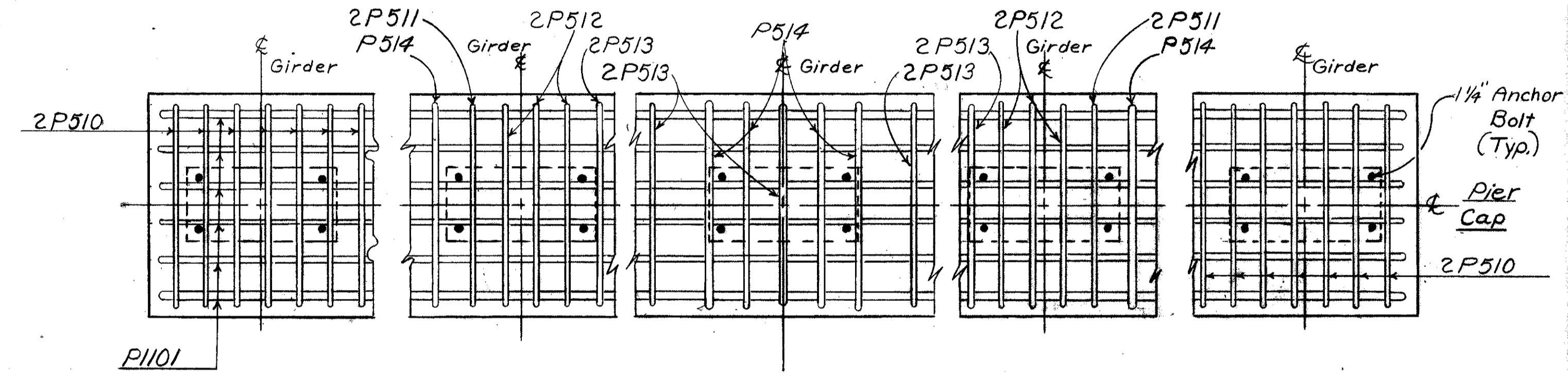
Care shall be taken in placing the reinforcing steel under Girder seats so as not to interfere with bearing anchor bolts.



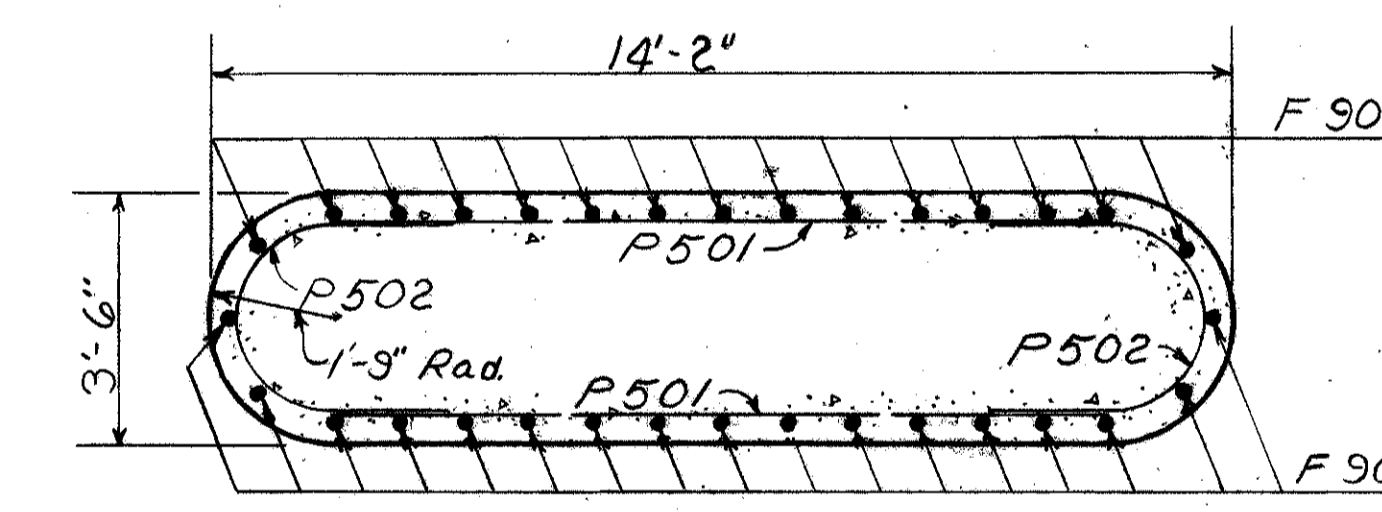
ELEVATION-PIER # 8



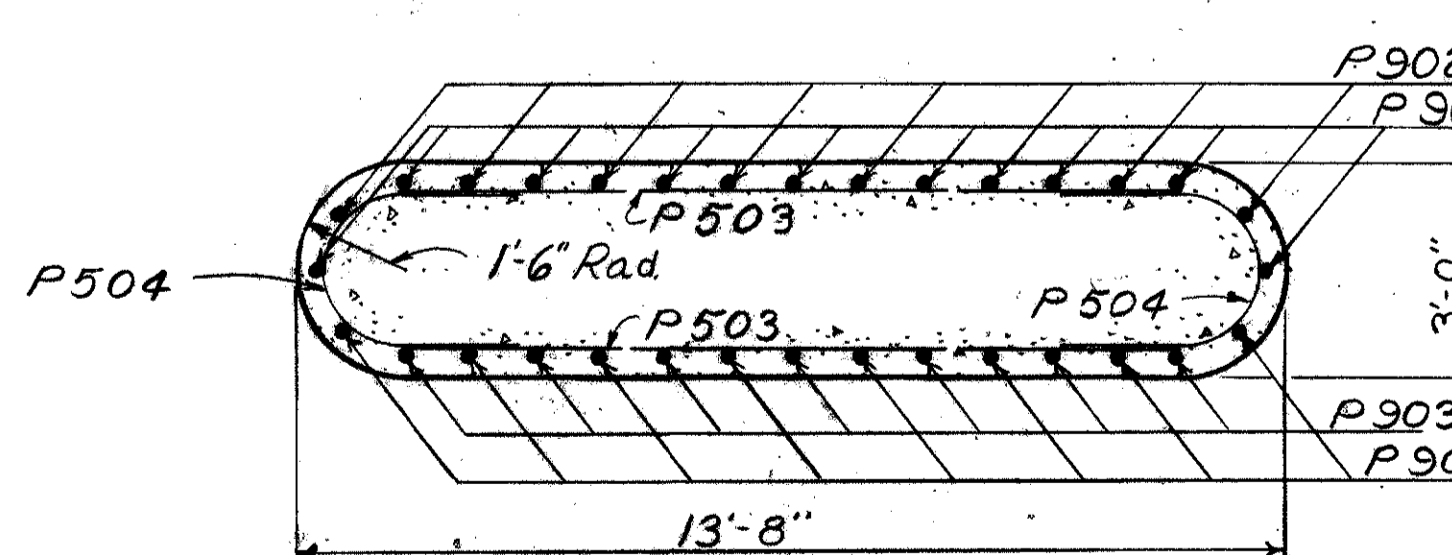
END ELEVATION



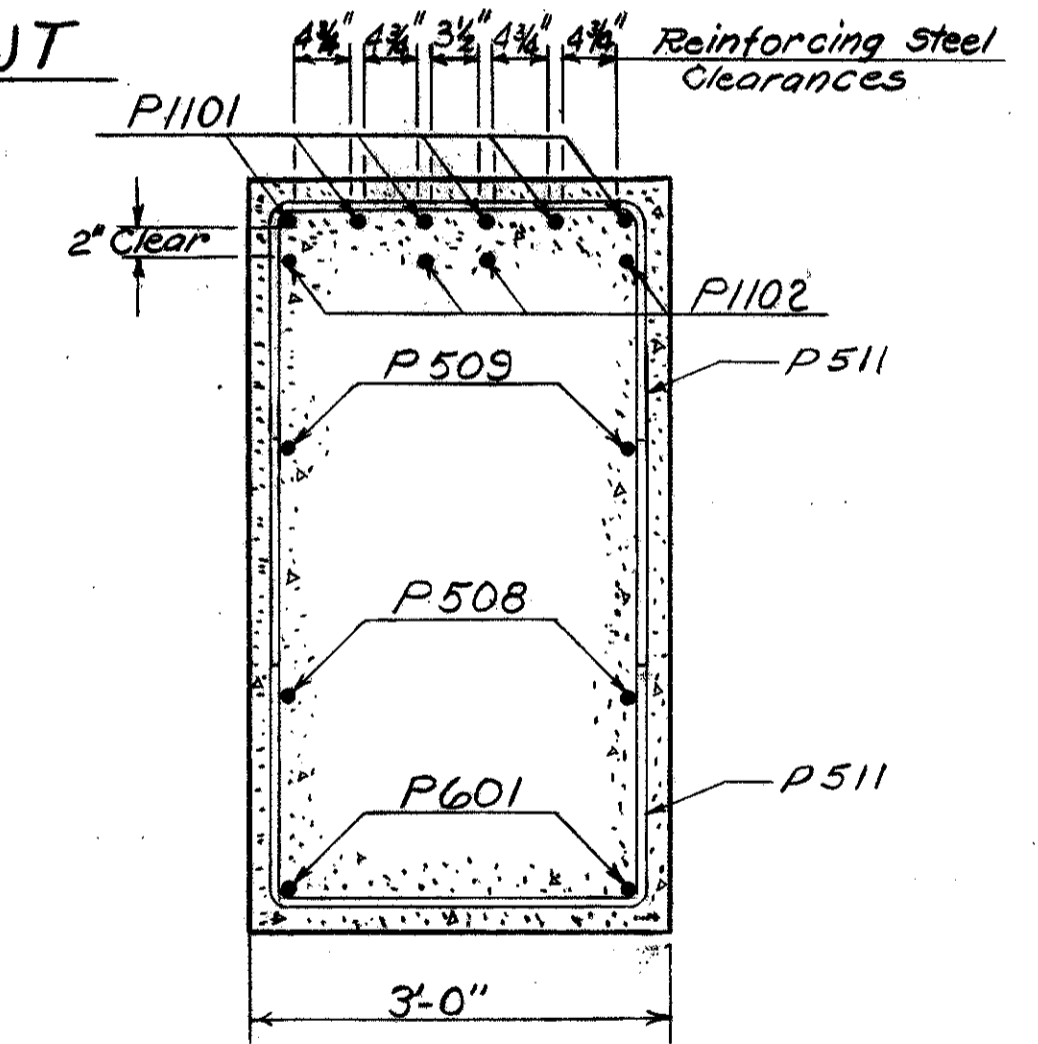
ANCHOR BOLT LAYOUT



SECTION A-A



SECTION B-B



SECTION C-C

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

PIER DETAILS

BRIDGE No. R05-35-2532 L
U.S.R. 35 over SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.69

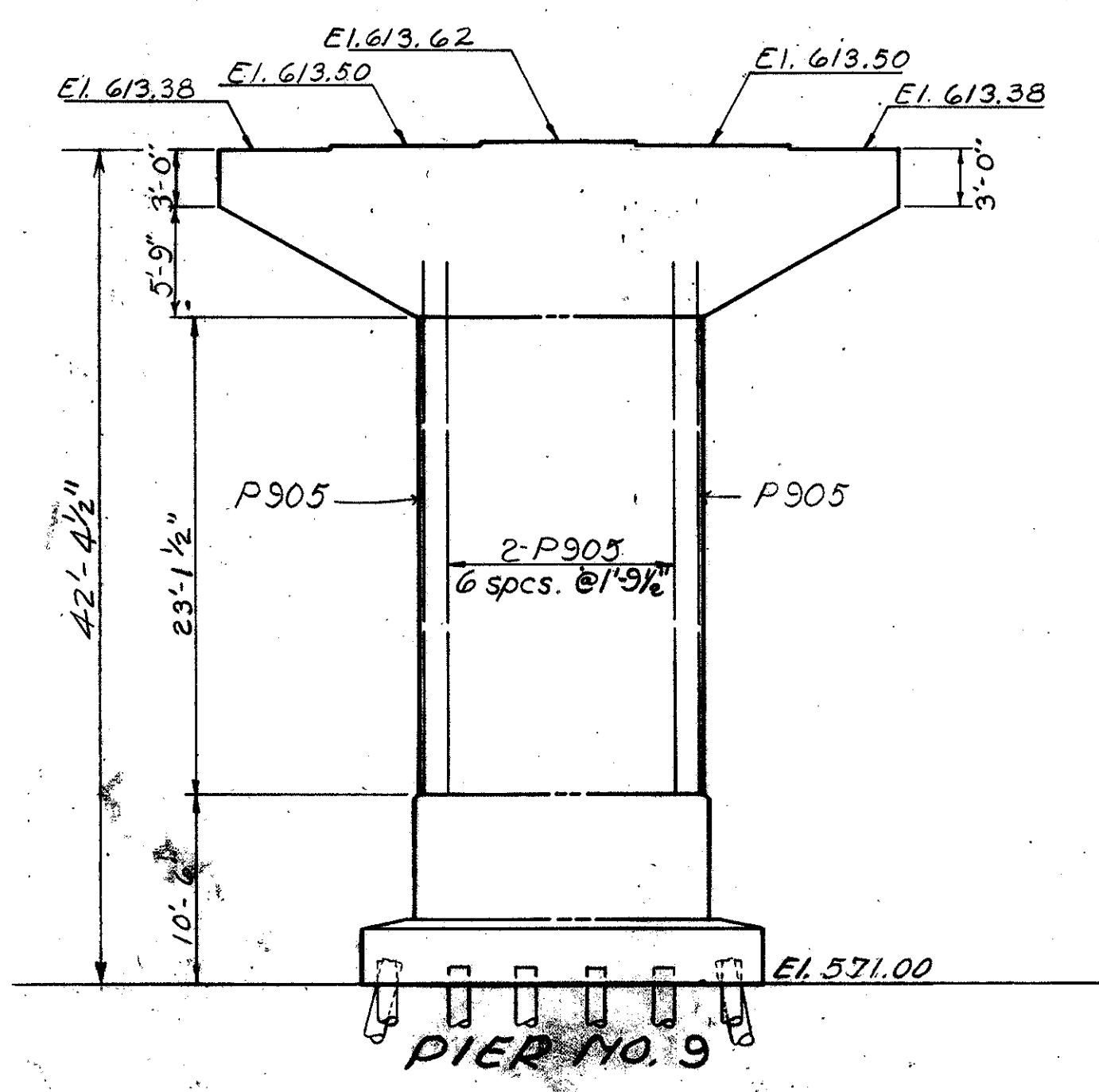
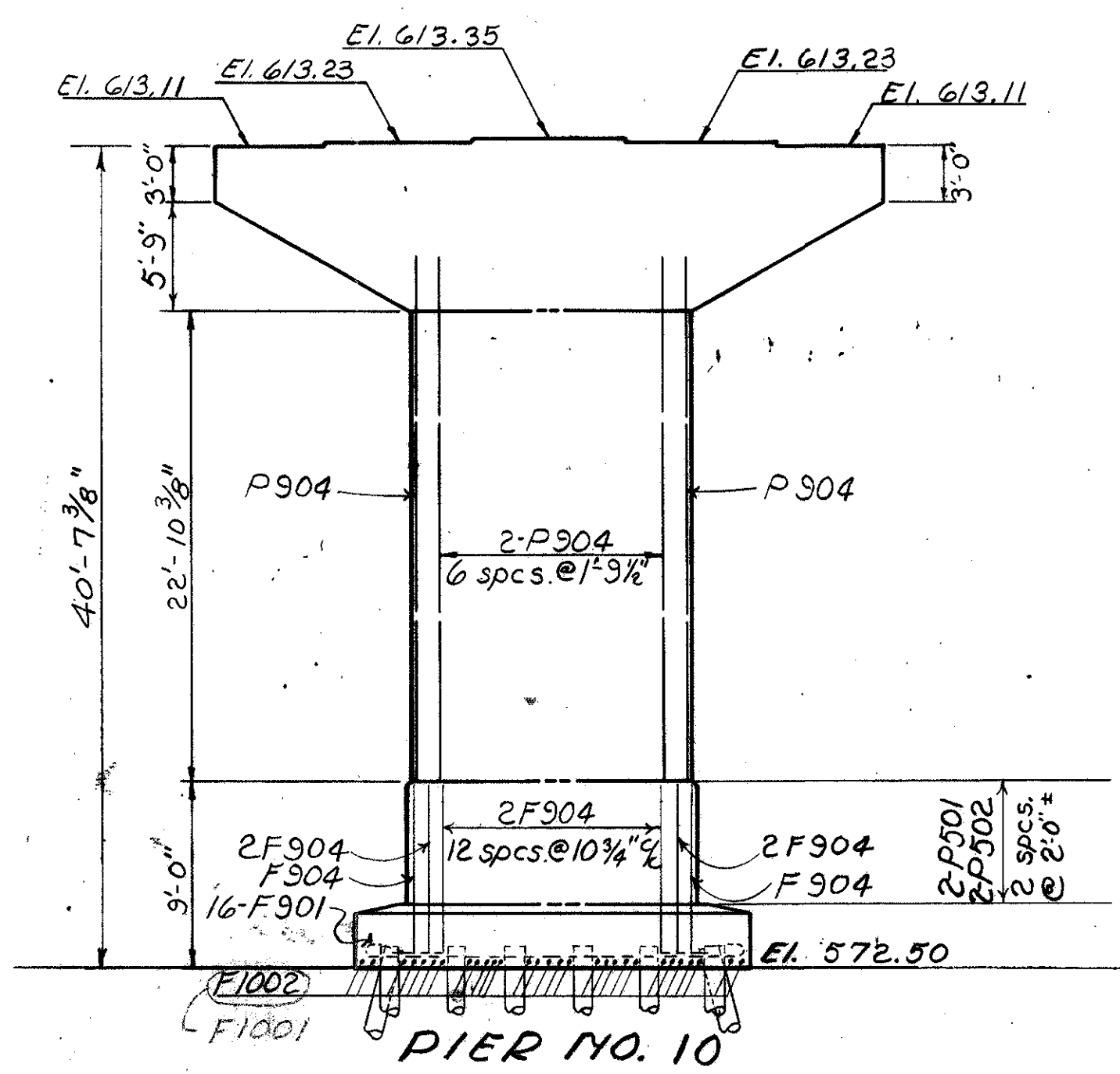
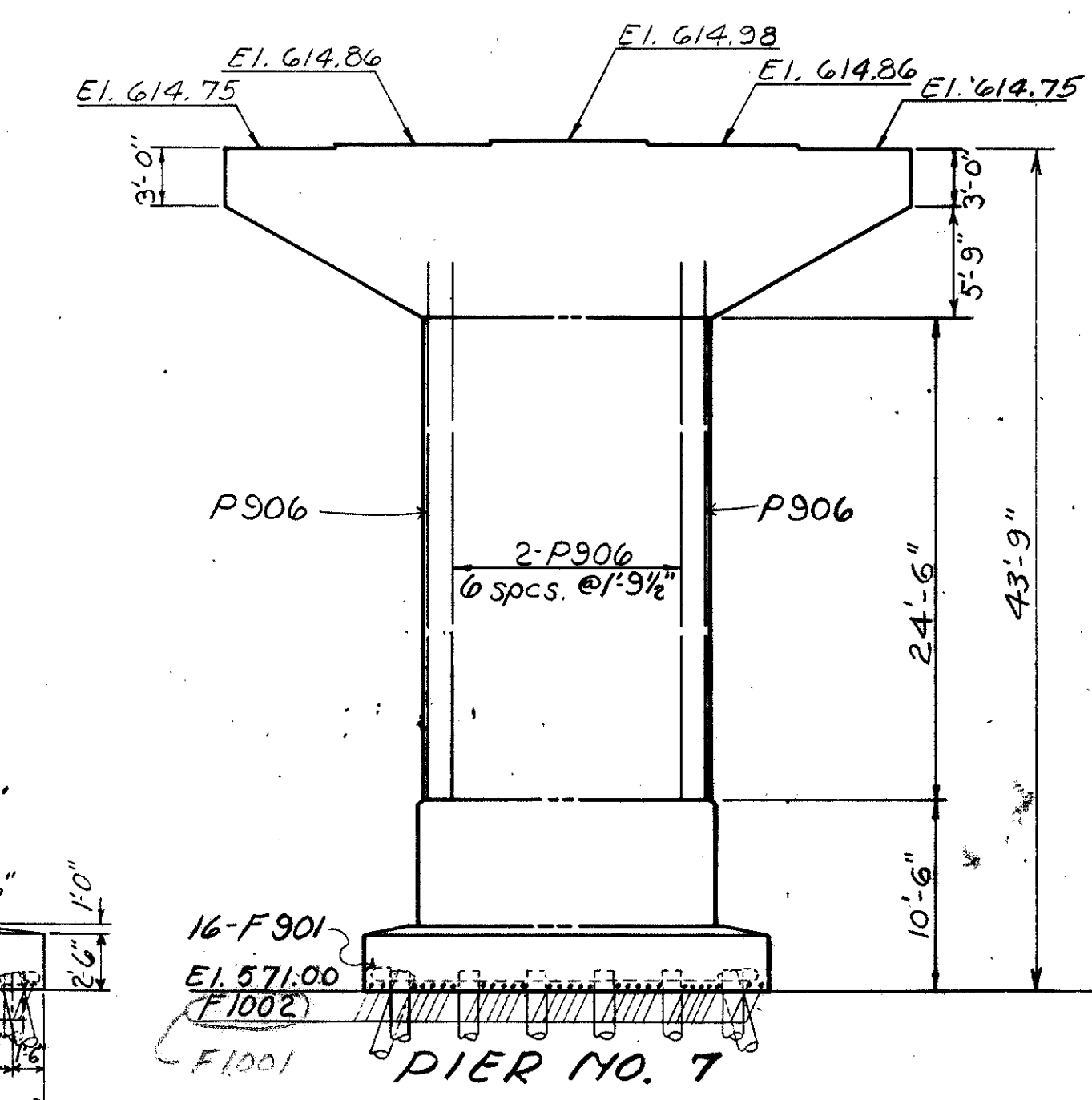
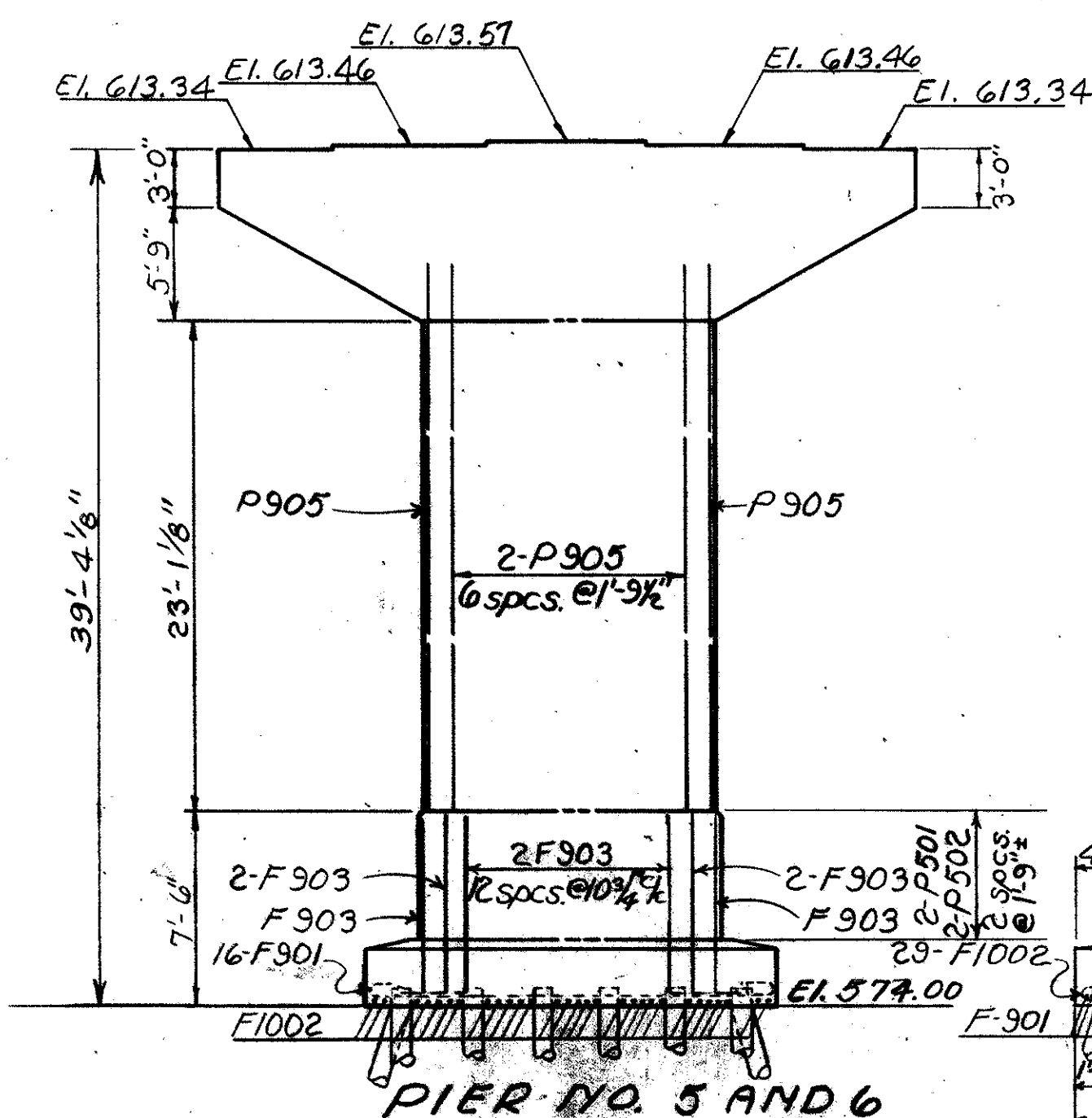
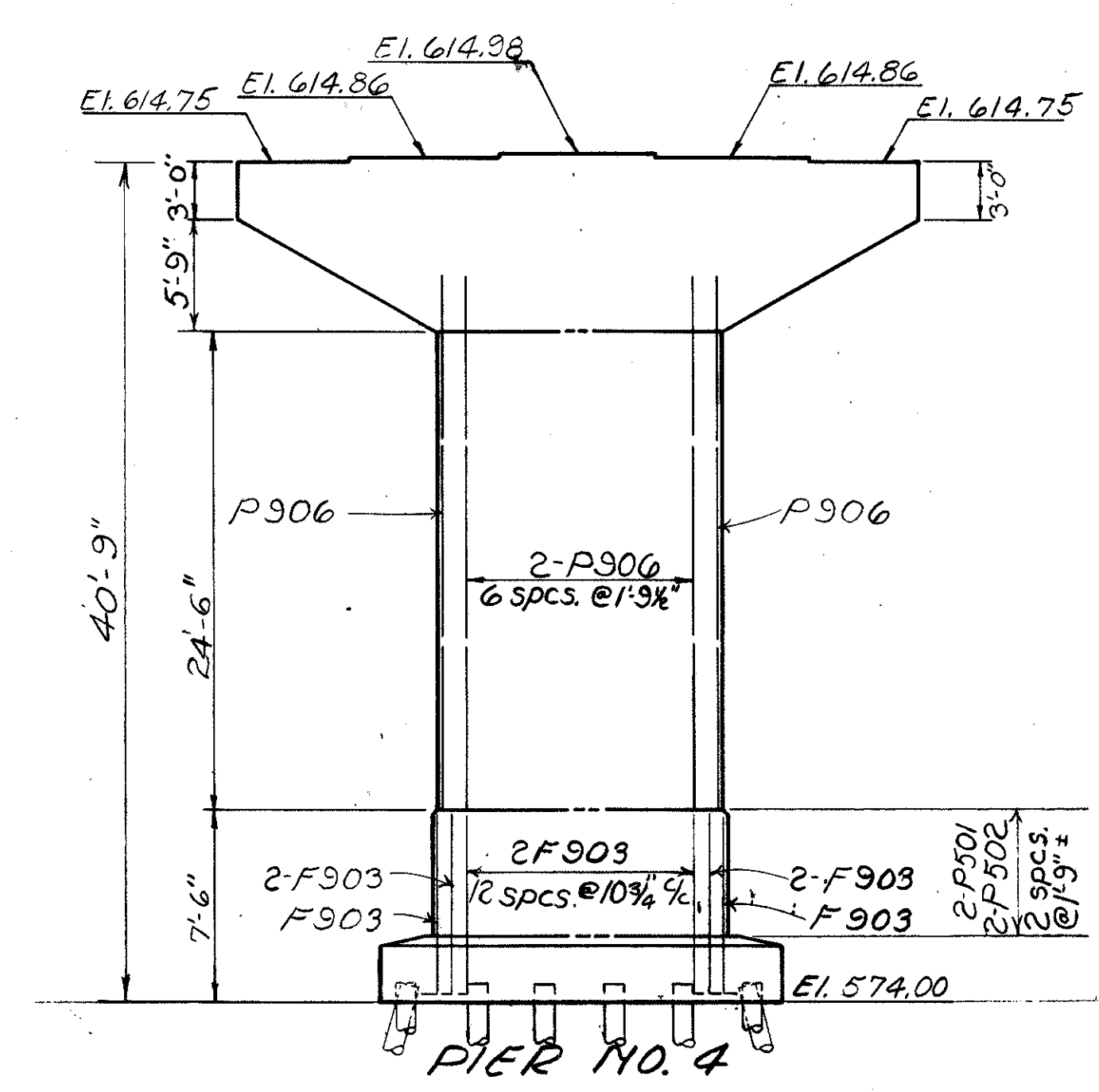
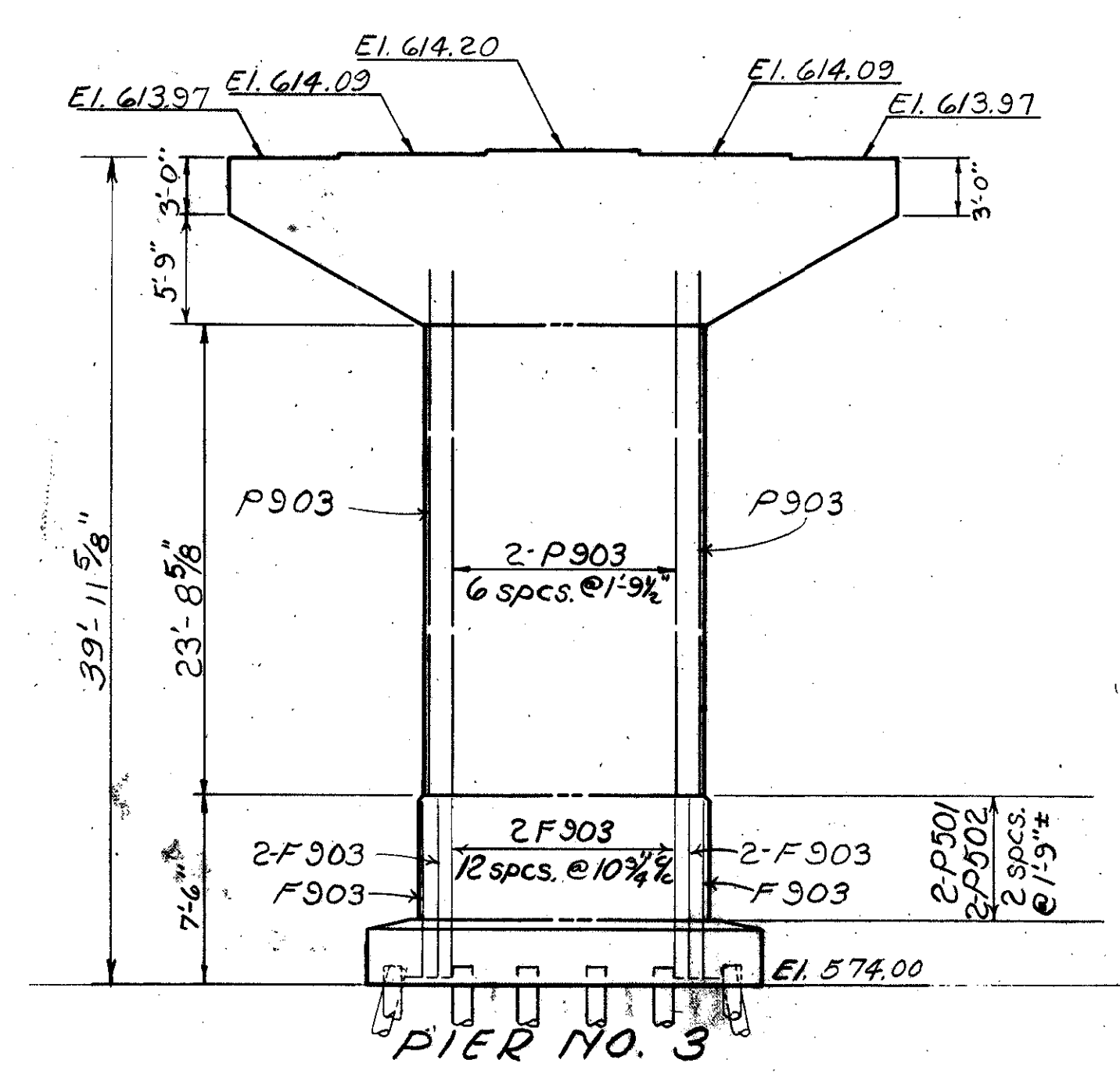
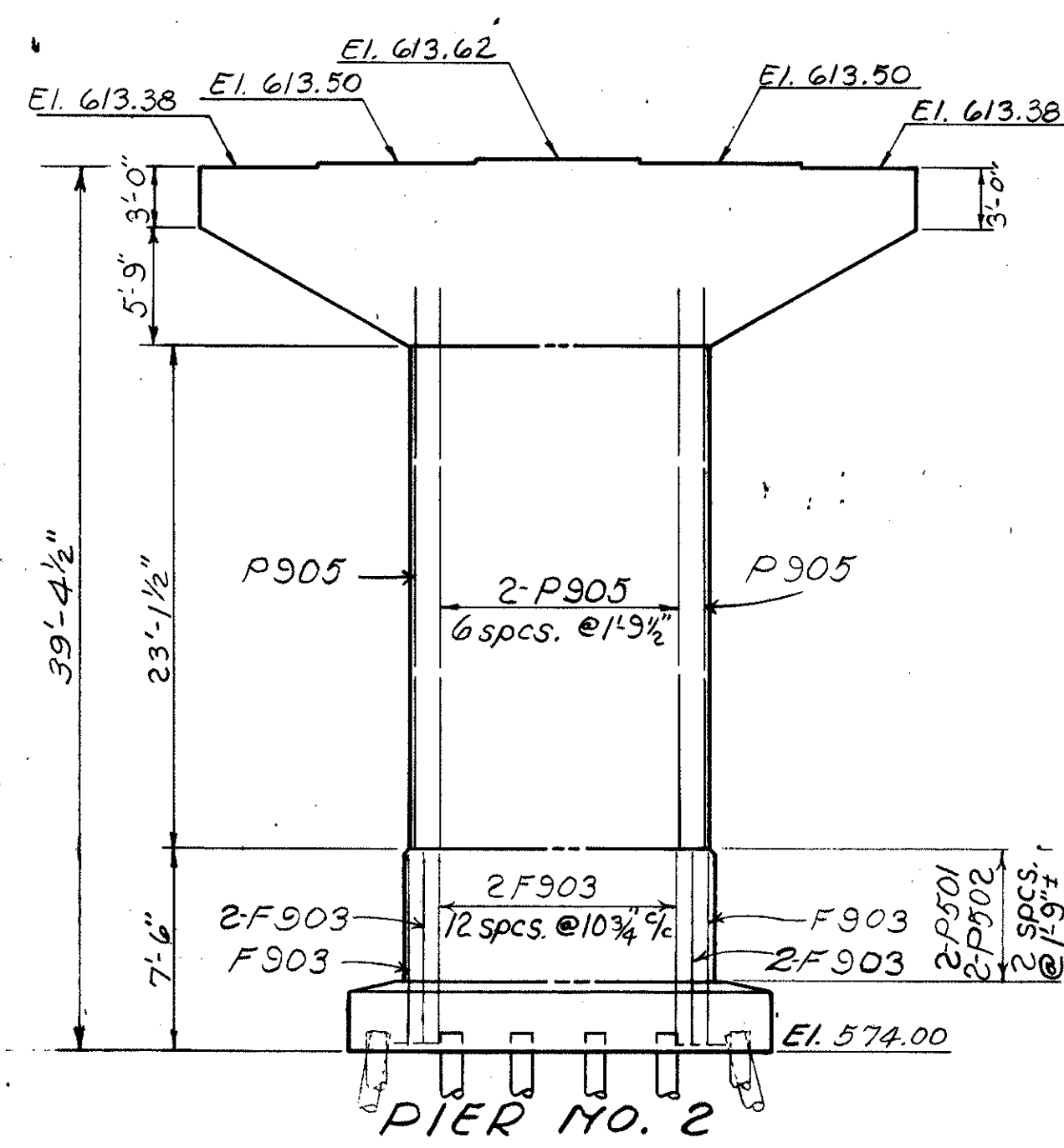
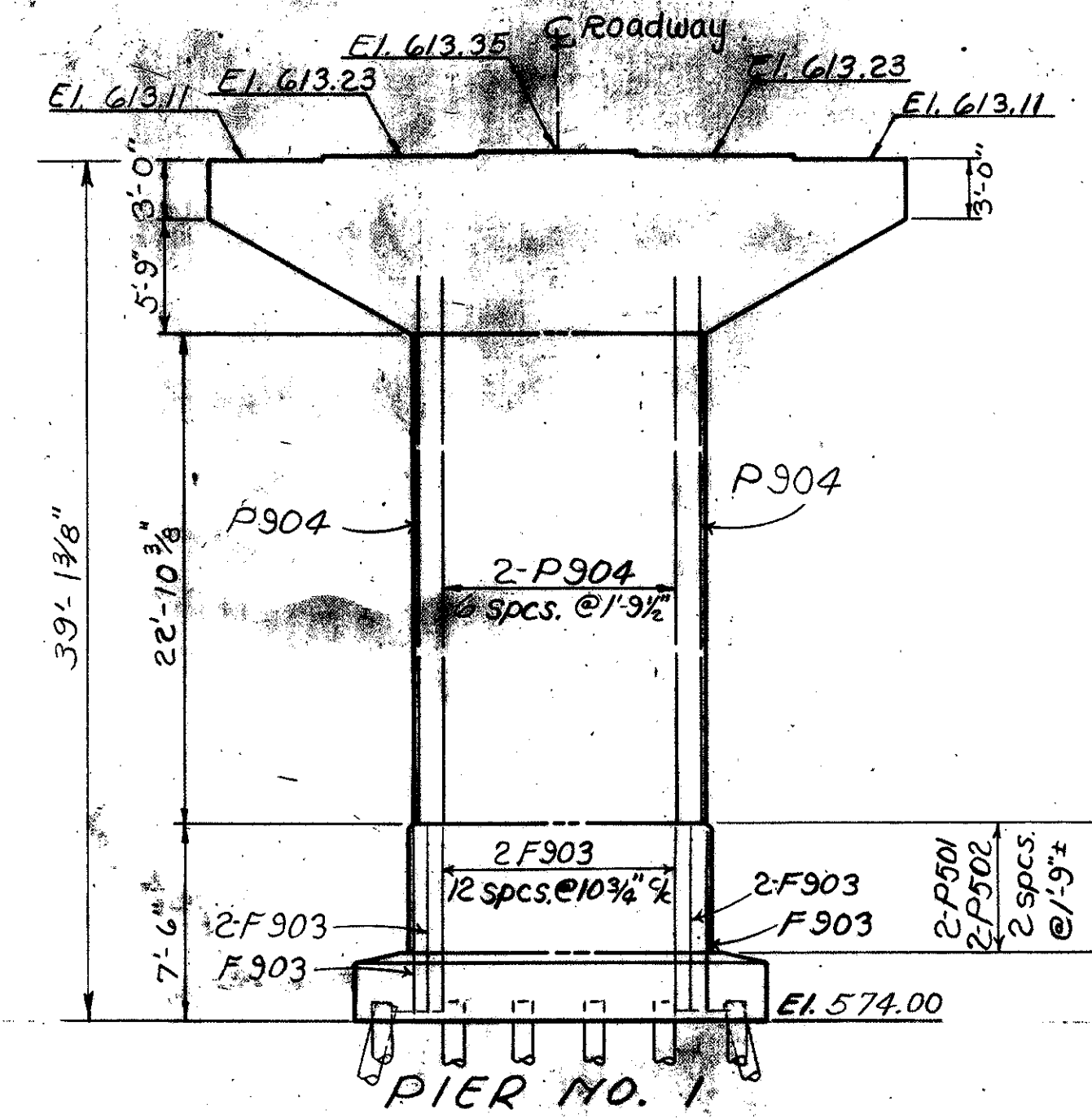
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DJP	DER		JKL		10/24/84	

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MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

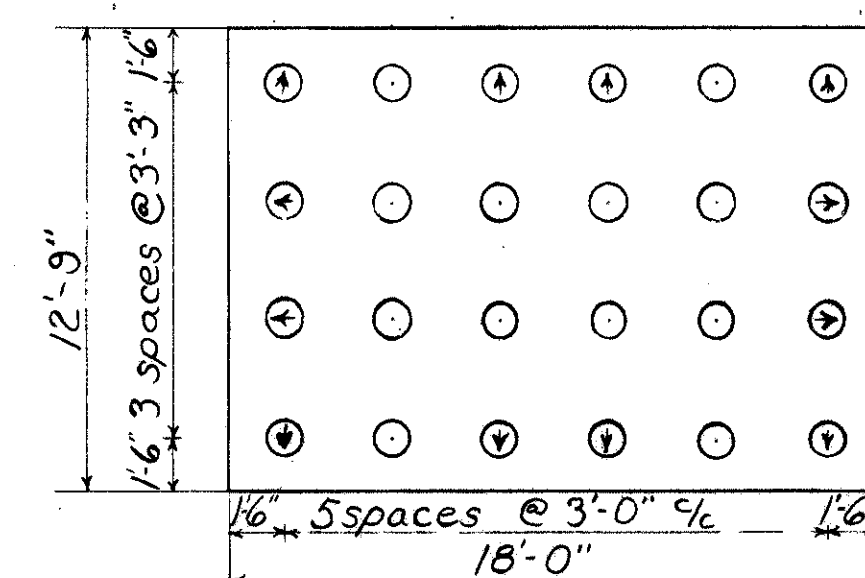
129
225

ROSS COUNTY
ROS-35-25.05



END ELEVATION FOR
PIER NO. 5 AND 6

NOTE: For dimensions, reinforcing steel
and details not shown, see Pier
No. 8.



PILE PLAN FOR PIER NO. 5 AND 6

For Pile Plan of Piers 1, 2, 3, 4, 7, 9 and 10
see Pile Plan for Pier No. 8.

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

PIER DETAILS

BRIDGE No. ROS-35-2532 L
U.S.R. 35 over SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.60

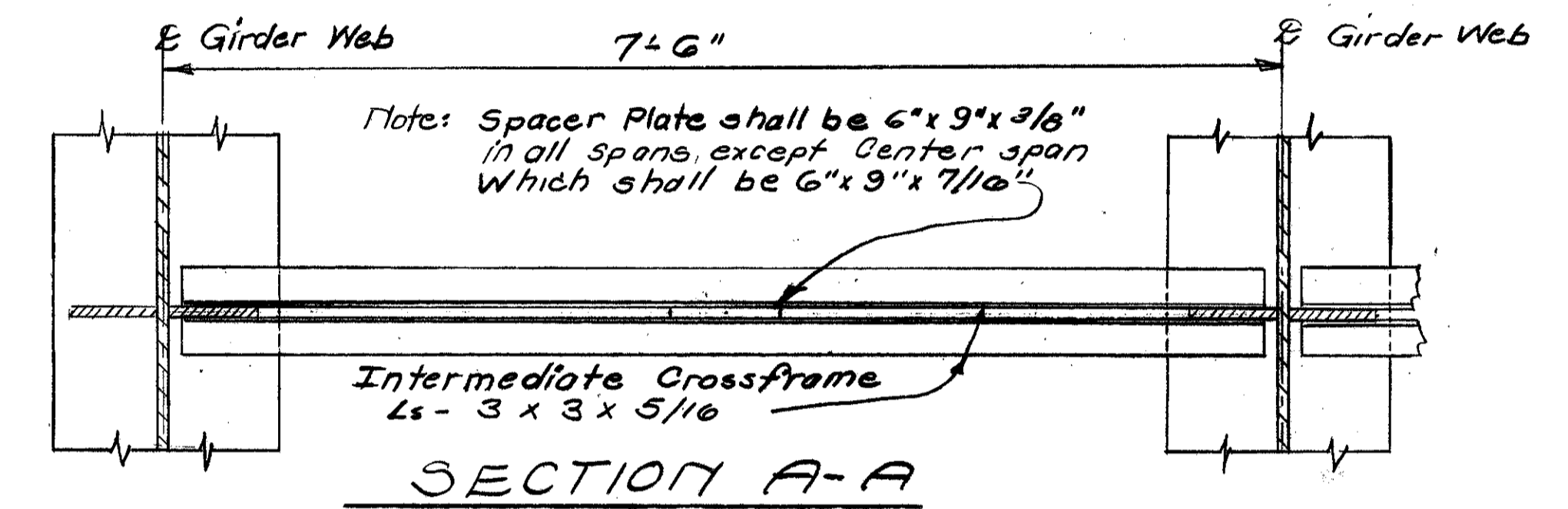
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DJP	DER		FHL	ML	10/24/64	

ROSS COUNTY
ROS-35-25.05

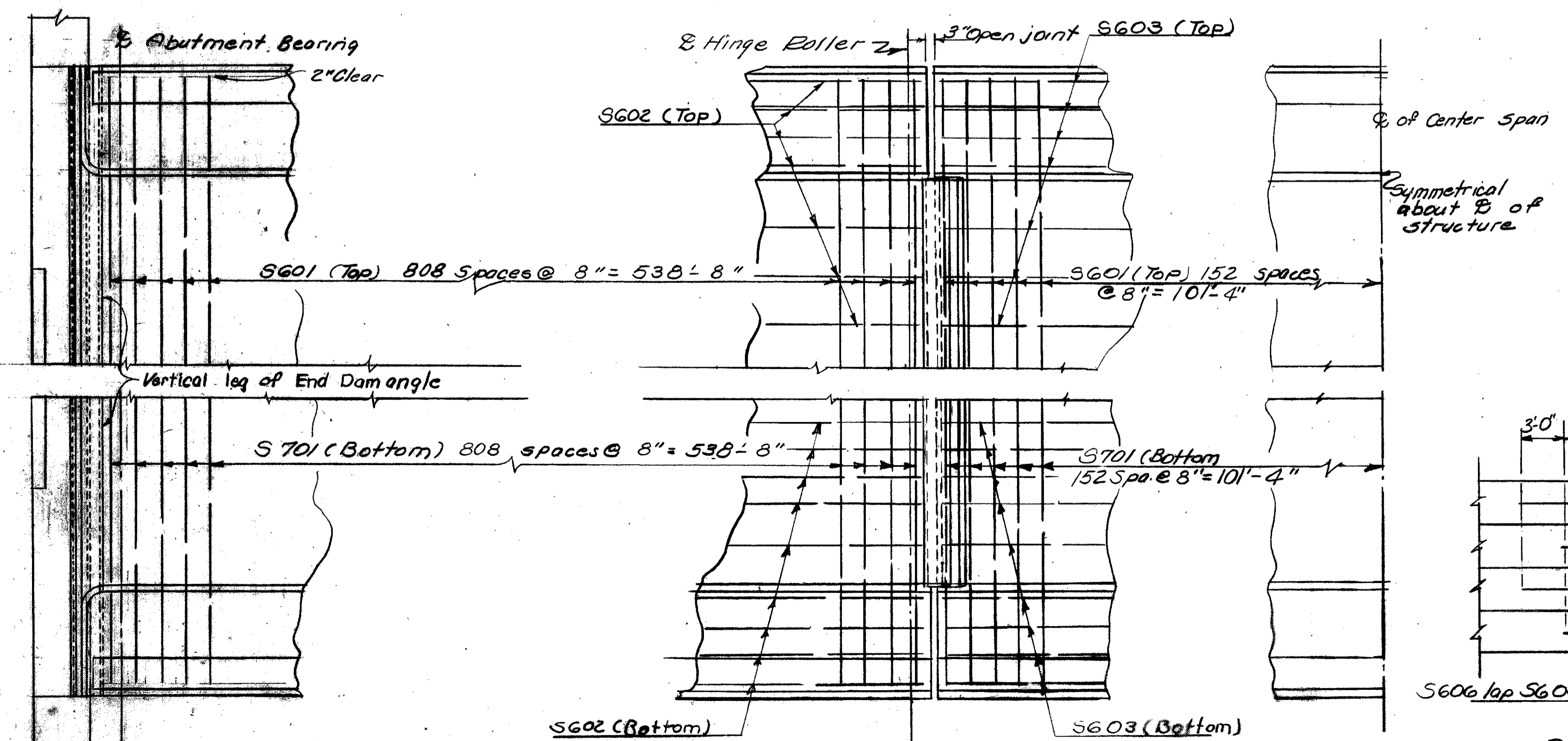
NOTES

* This is the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per Sec. 511.19 of the Construction and Material Specifications.

A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.



TYPICAL HALF TRANSVERSE SECTION



PART PLAN SLAB REINFORCING

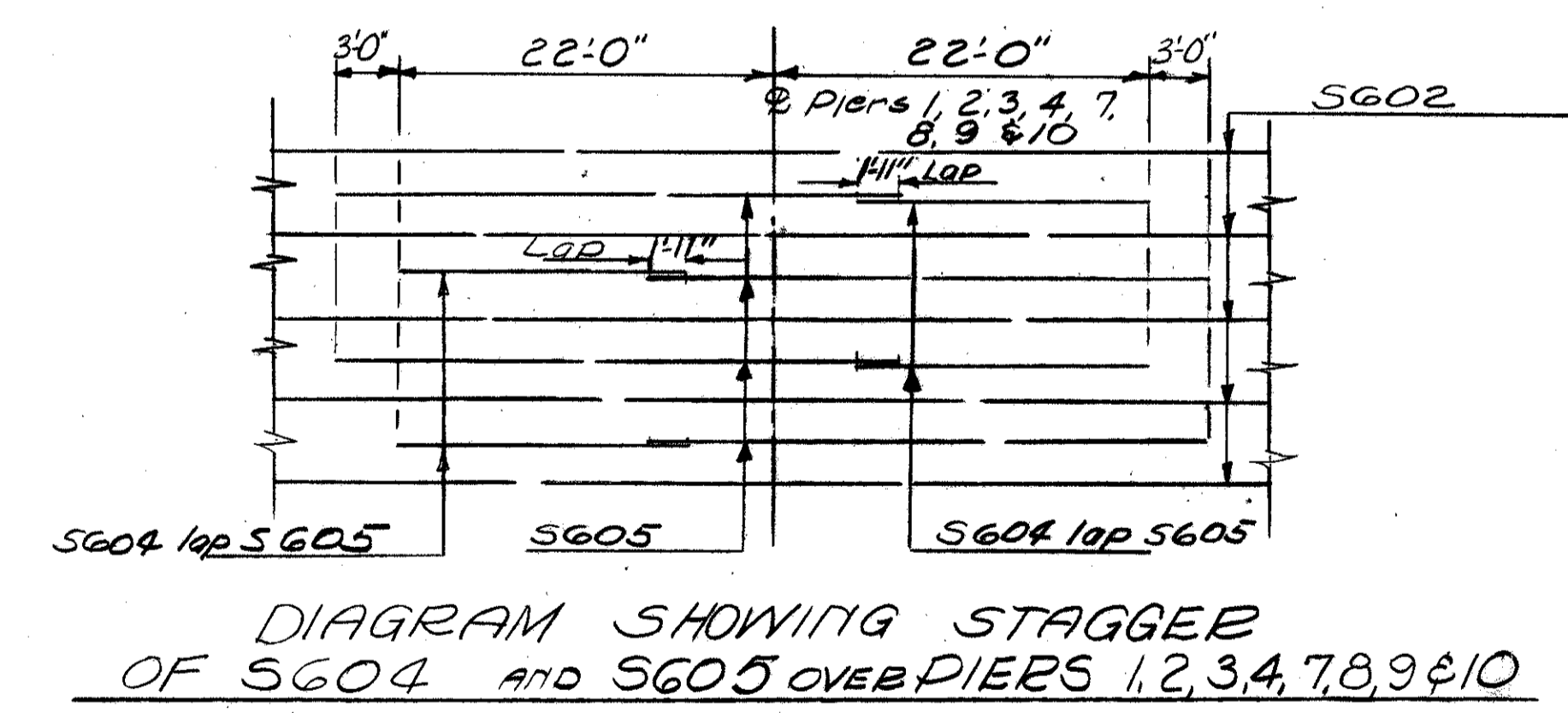


DIAGRAM SHOWING STAGGER OF S604 AND S605 OVER PIERS 1, 2, 3, 4, 7, 8, 9 & 10

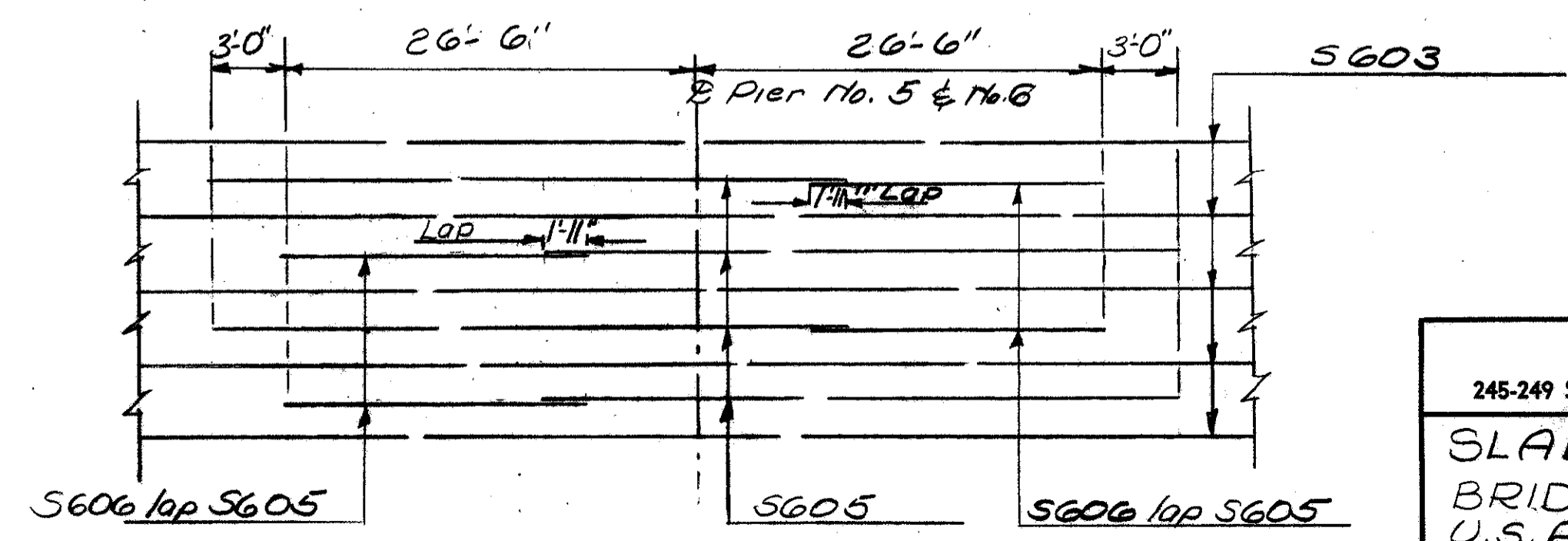


DIAGRAM SHOWING STAGGER OF S605 AND S606 OVER PIERS 10.5 & 10.6

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

SLAB REINFORCING DETAILS
BRIDGE NO ROS-35-2532 L
U.S.R. 35 OVER SCIOTO RIVER

ROSS COUNTY U.S.R. 35
STA. 1337 + 08.99 TO STA. 1349 + 34.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WIC	PJM		FHS	WIL	10/24/64	

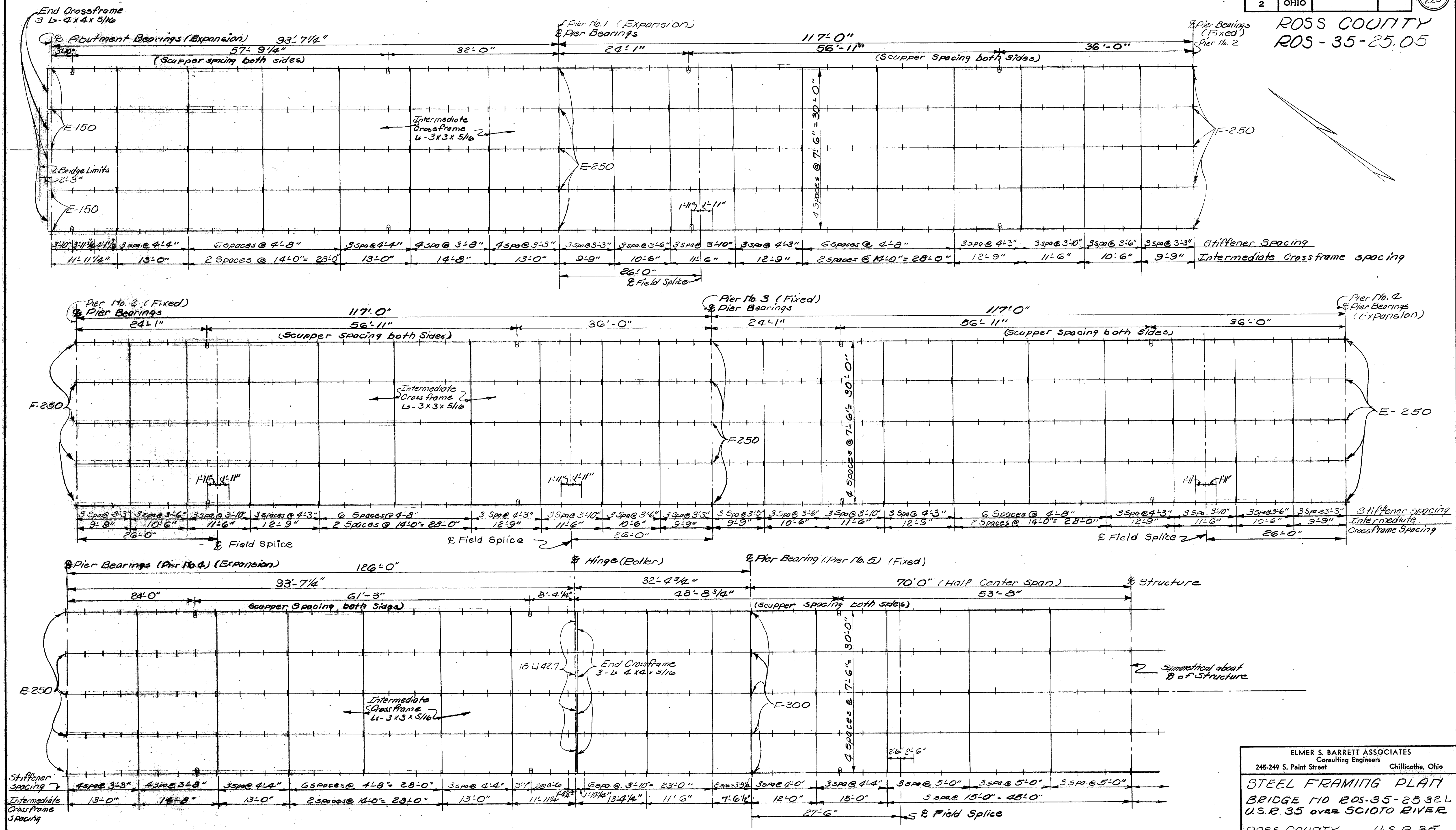
Type 1 Bailing Post
See Std. Dwg. BR-1265

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MAR 17 1988

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FED. RD. DIVISION	STATE	PROJECT	131 225
2	OHIO		

ROSS COUNTY
ROS-35-25.05



HALF STEEL FRAMING PLAN

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

STEEL FRAMING PLAN
BRIDGE NO ROS-35-25.32L
U.S.R. 35 OVER SCIOTO RIVER

ROSS COUNTY U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.69

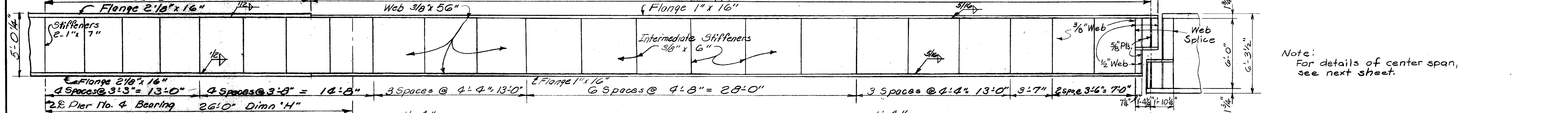
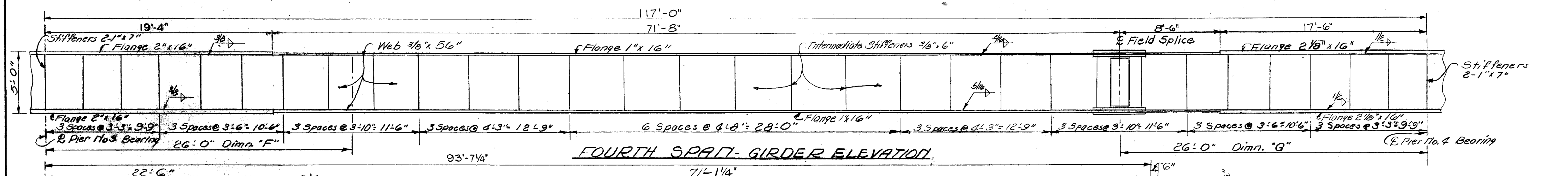
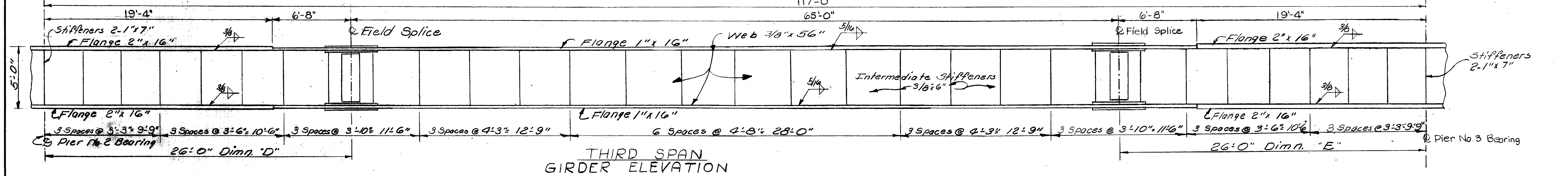
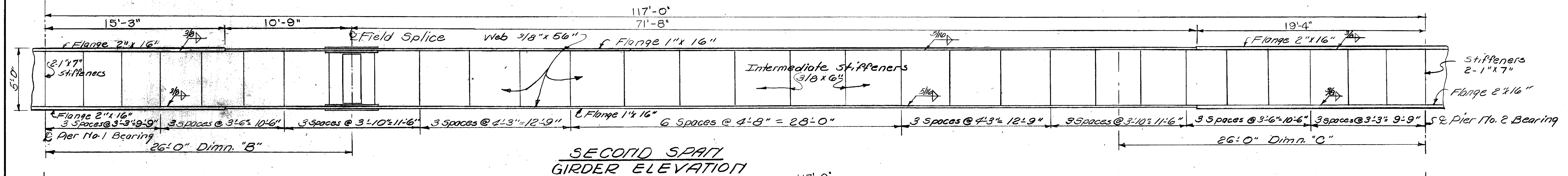
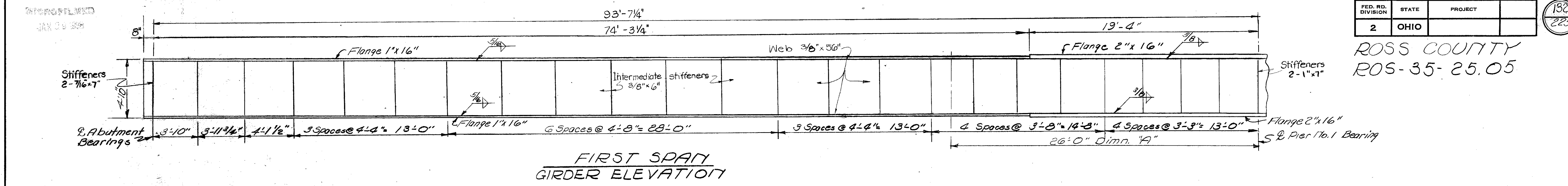
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.C. P.J.M.				F.H. NK	10/24/64	

REPRODUCED
JAN 24 1988

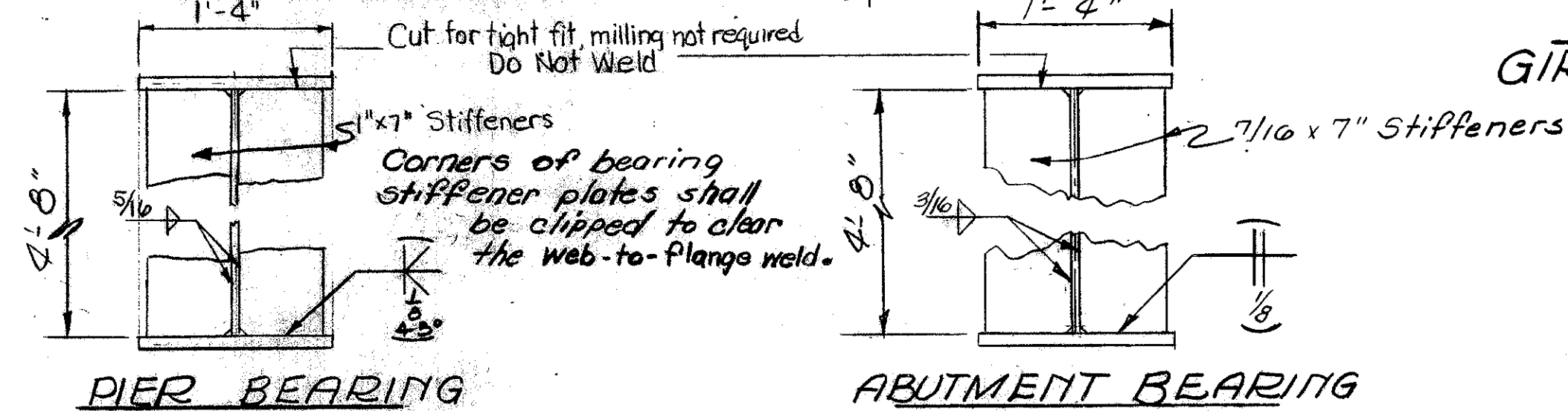
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

132
225

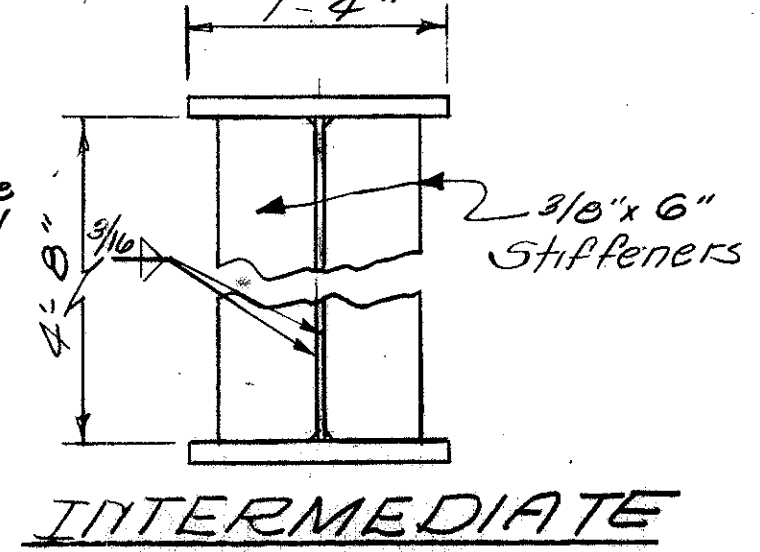
ROSS COUNTY
ROS-35-25.05



Note:
For details of center span,
see next sheet.



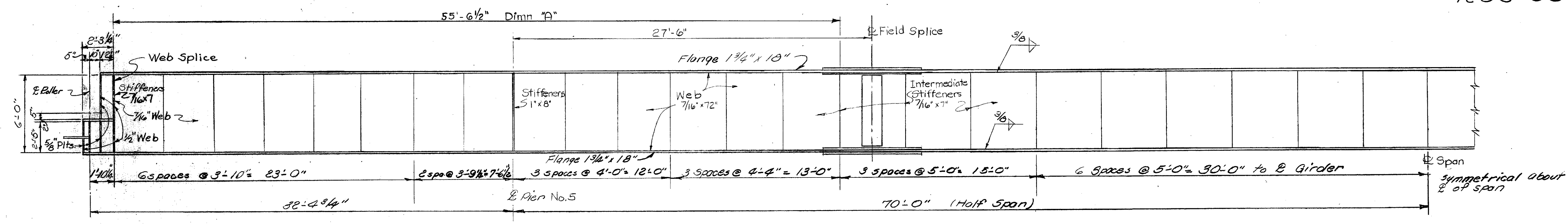
Corners of intermediate stiffener plates shall be clipped to clear the web-to-flange weld.



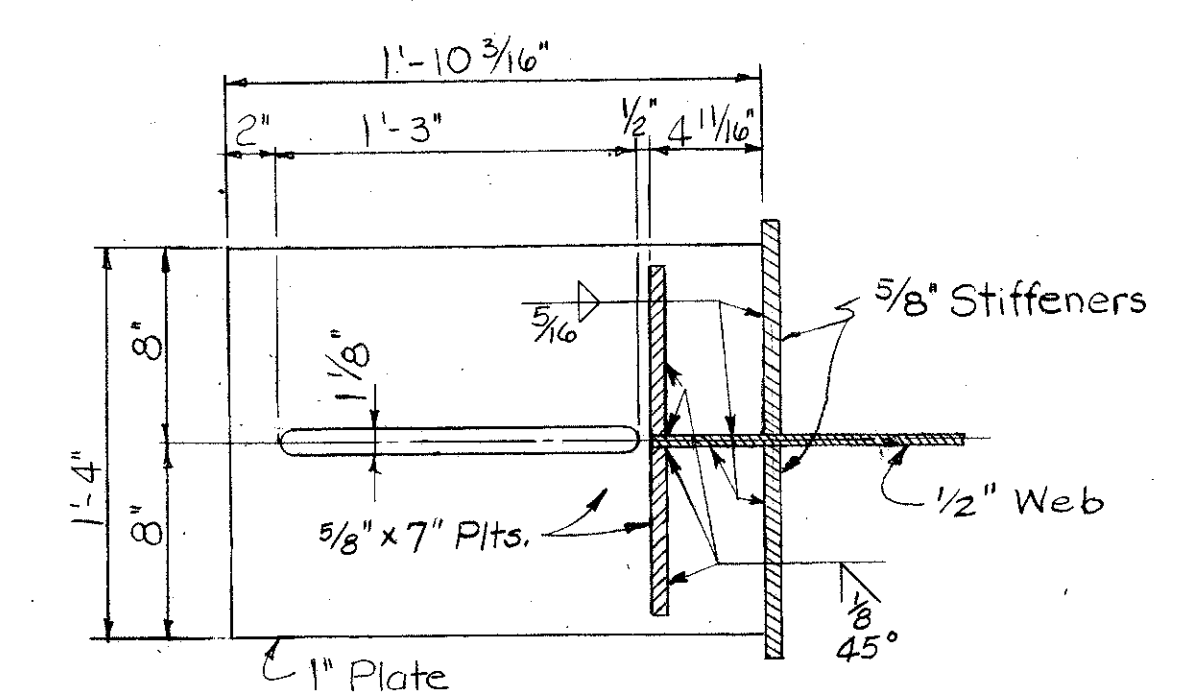
Intermediate stiffeners shall have contact bearing with the compression flange.
The top flange shall be considered the tension flange from Dim'n. "A" thru Dim'n. "H" as indicated on the "GIRDER ELEVATIONS". For the remaining length of the girder, the bottom flange shall be considered the tension flange.

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
GIRDER ELEVATIONS					
BRIDGE NO. ROS-35-2532 L U.S. 35 OVER SCIOTO RIVER					
ROSS COUNTY U.S. 35 STA. 1337+08.99 TO STA. 1349+94.69					
SCALE DATE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
WIC	PJM		SKL	WIK	10/29/64

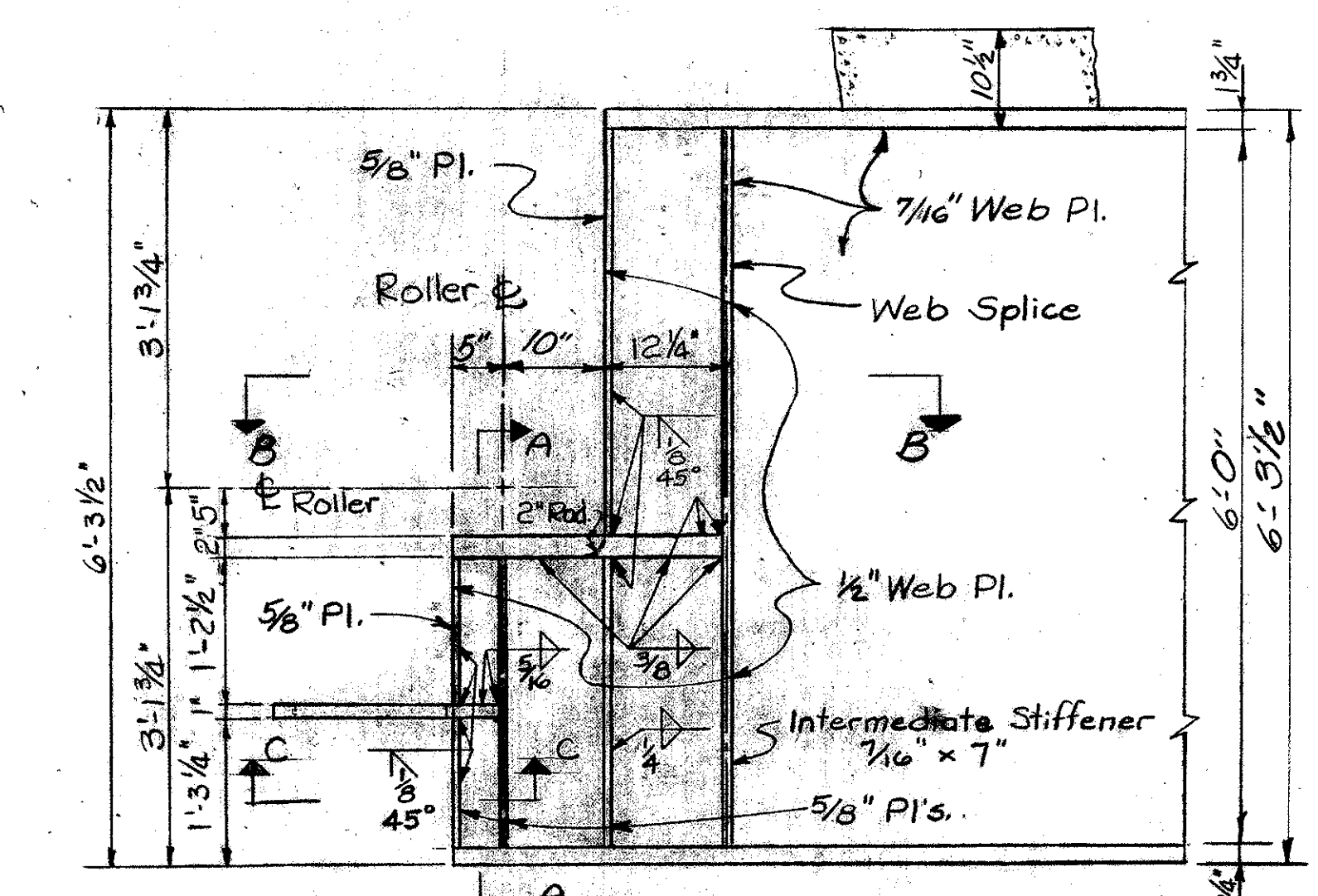
ROSS COUNTY
ROS-35-25.05



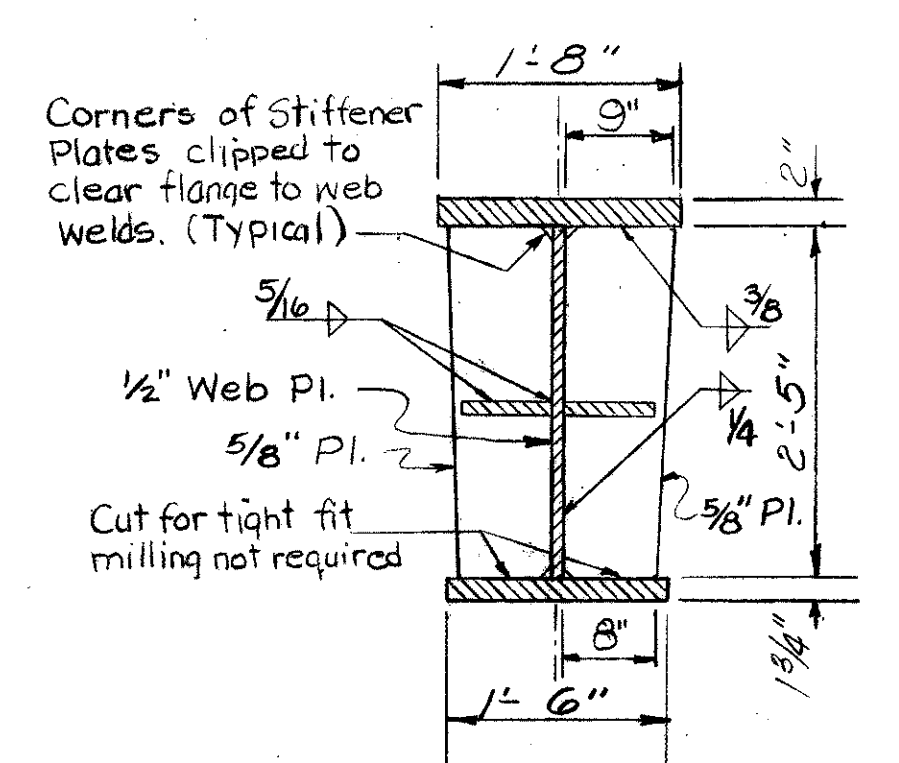
SIXTH SPAN GIRDER ELEVATION



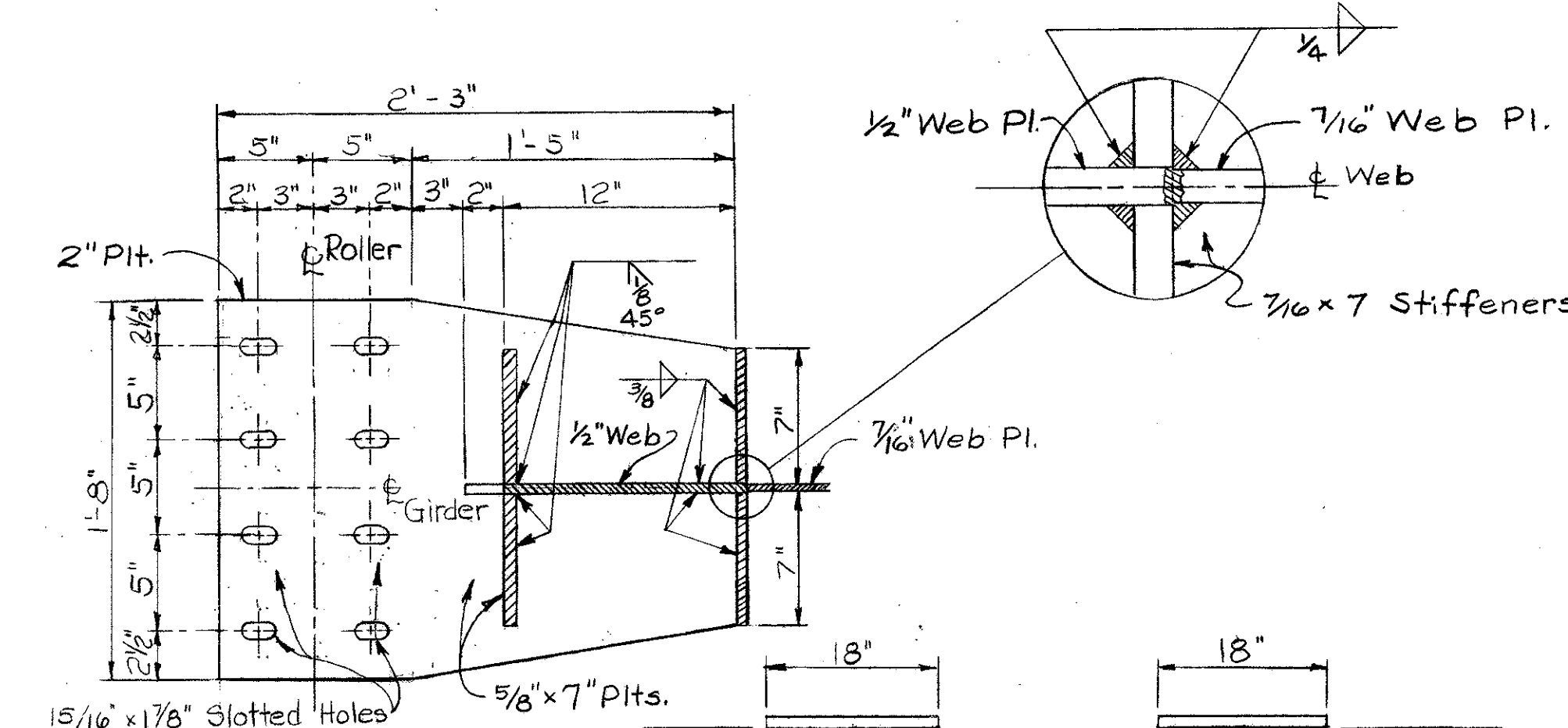
SECTION C-C



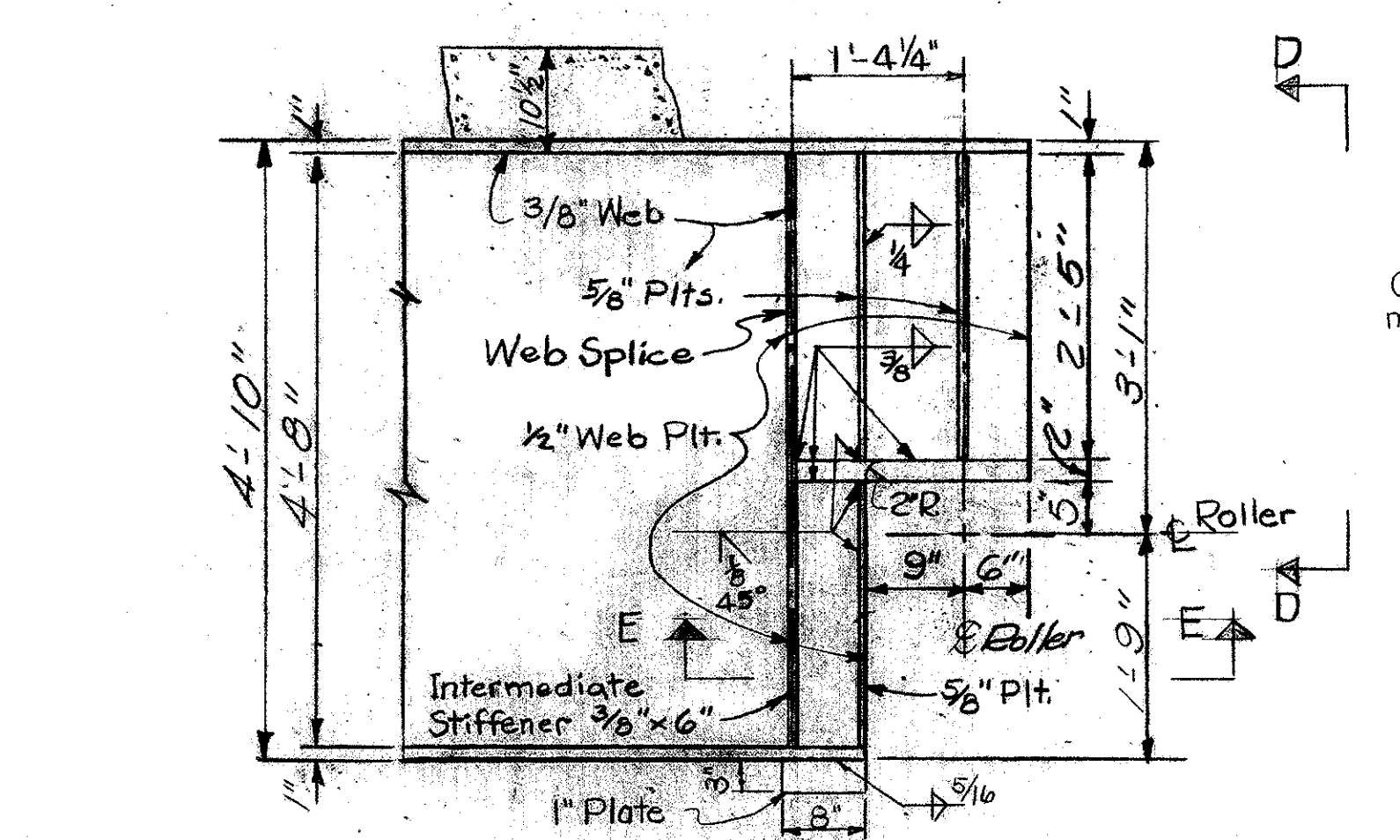
SIXTH SPAN GIRDER END



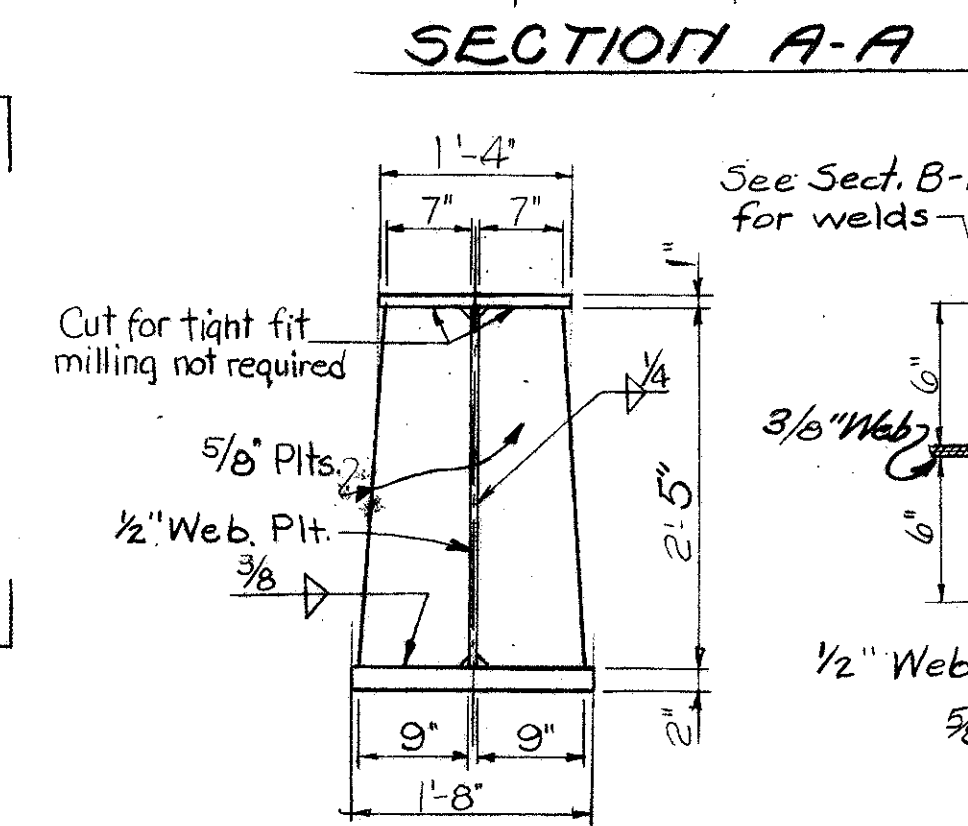
SECTION A-A



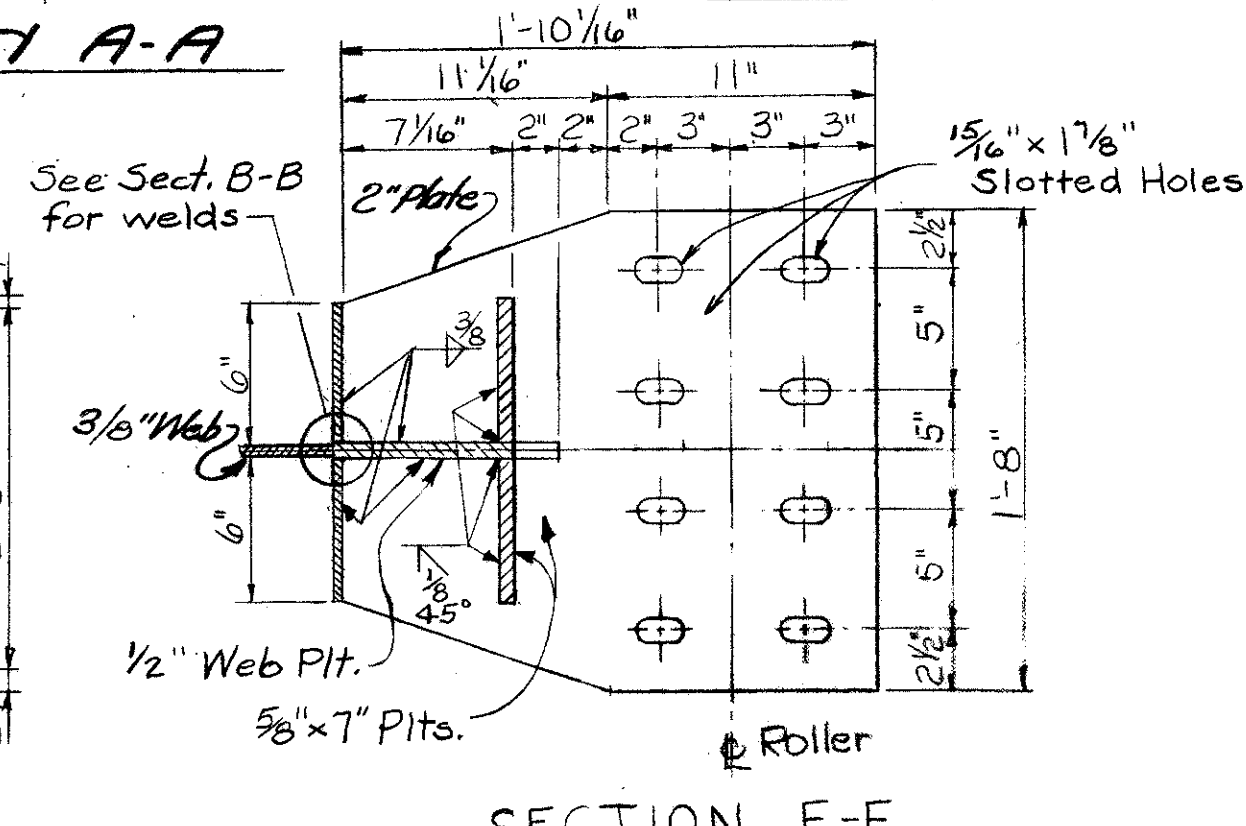
SECTION B-B



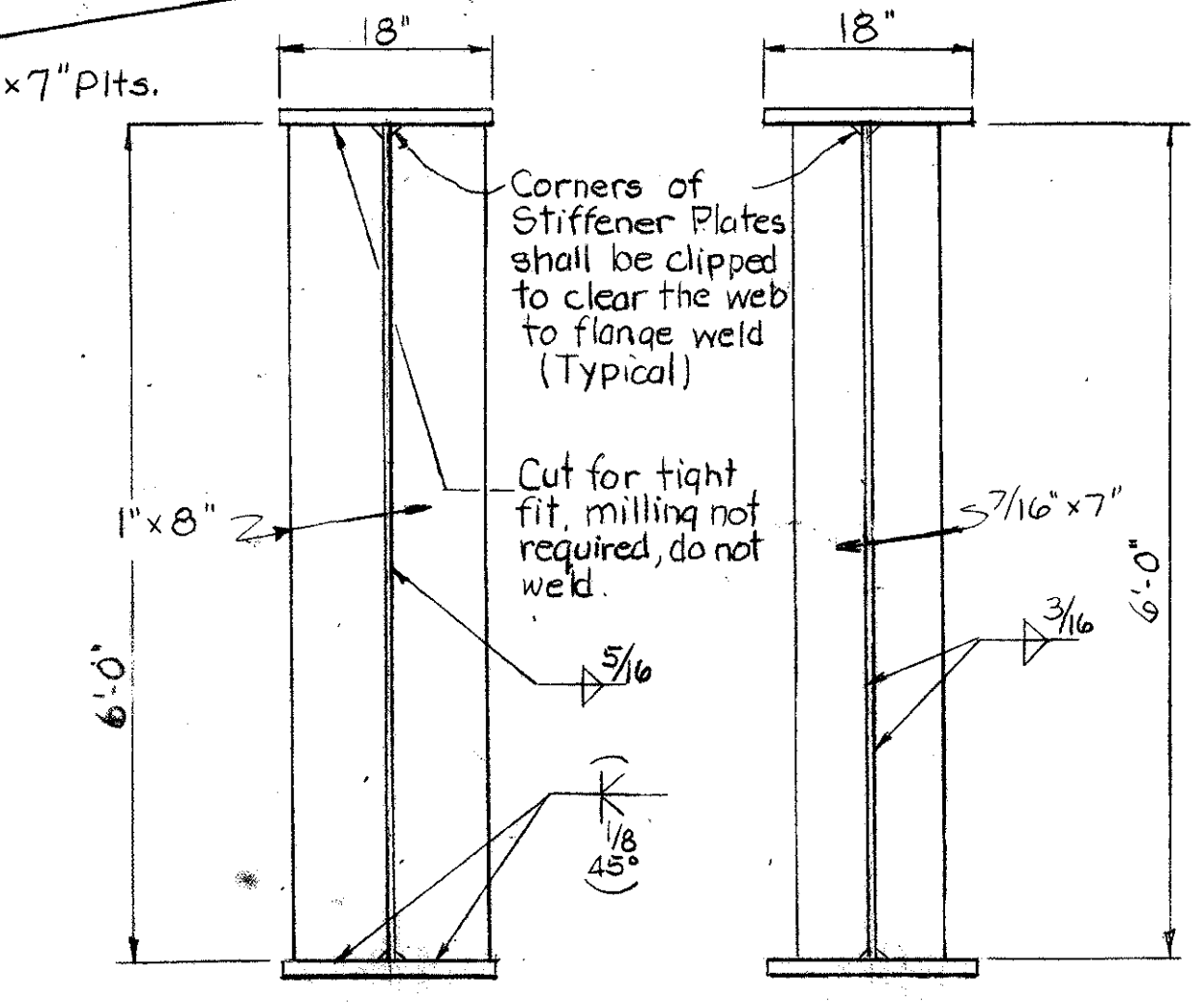
FIFTH AND SEVENTH SPAN GIRDER ENDS



SECTION D-D



SECTION E-E

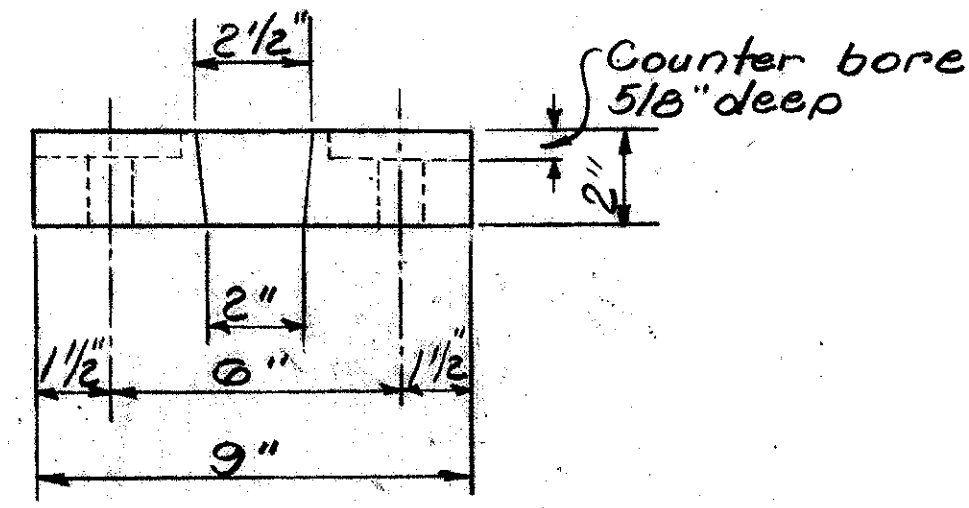
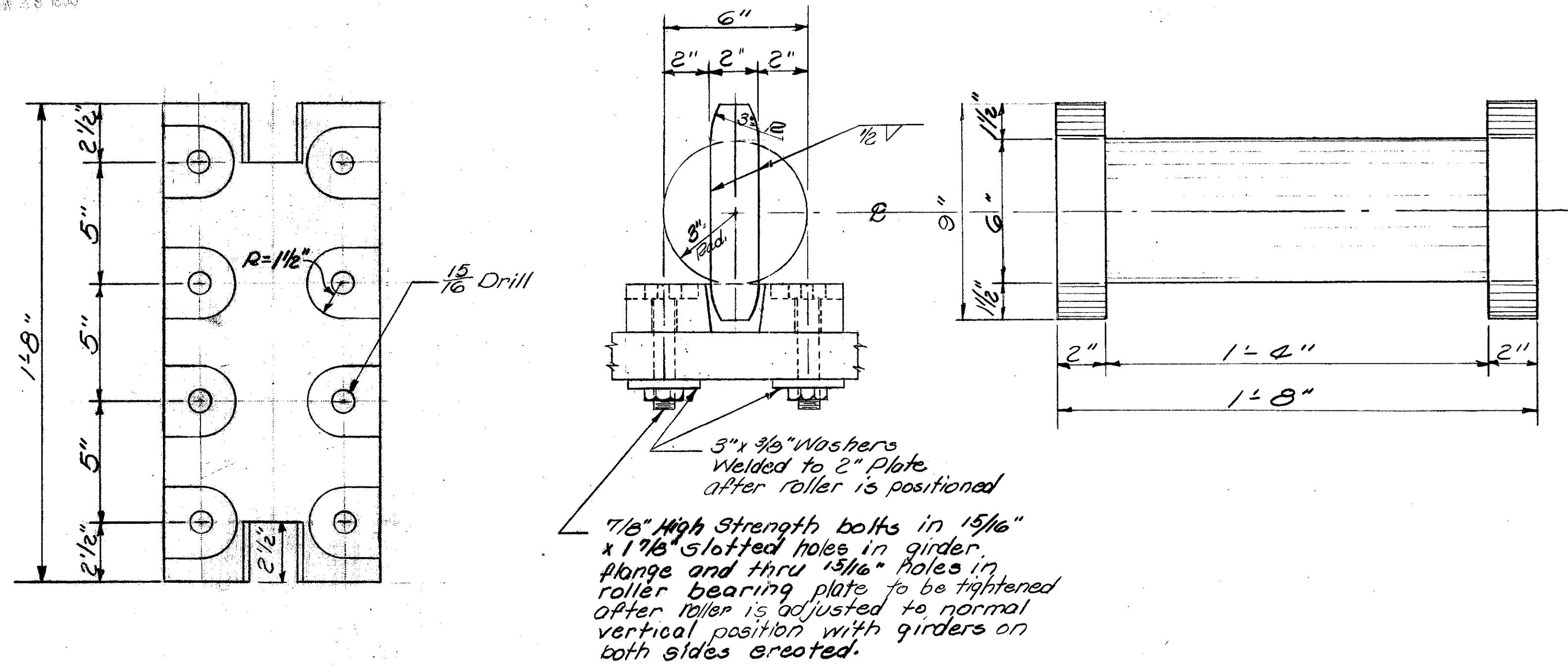


PIER BEARING INTERMEDIATE STIFFENER DETAILS

Intermediate stiffeners shall have contact bearing with the compression flange.
The top flange shall be considered the tension flange thru Dimn. 'A' as indicated on the "GIRDER ELEVATION". For the remaining length of the girder, the bottom flange shall be considered the tension flange.

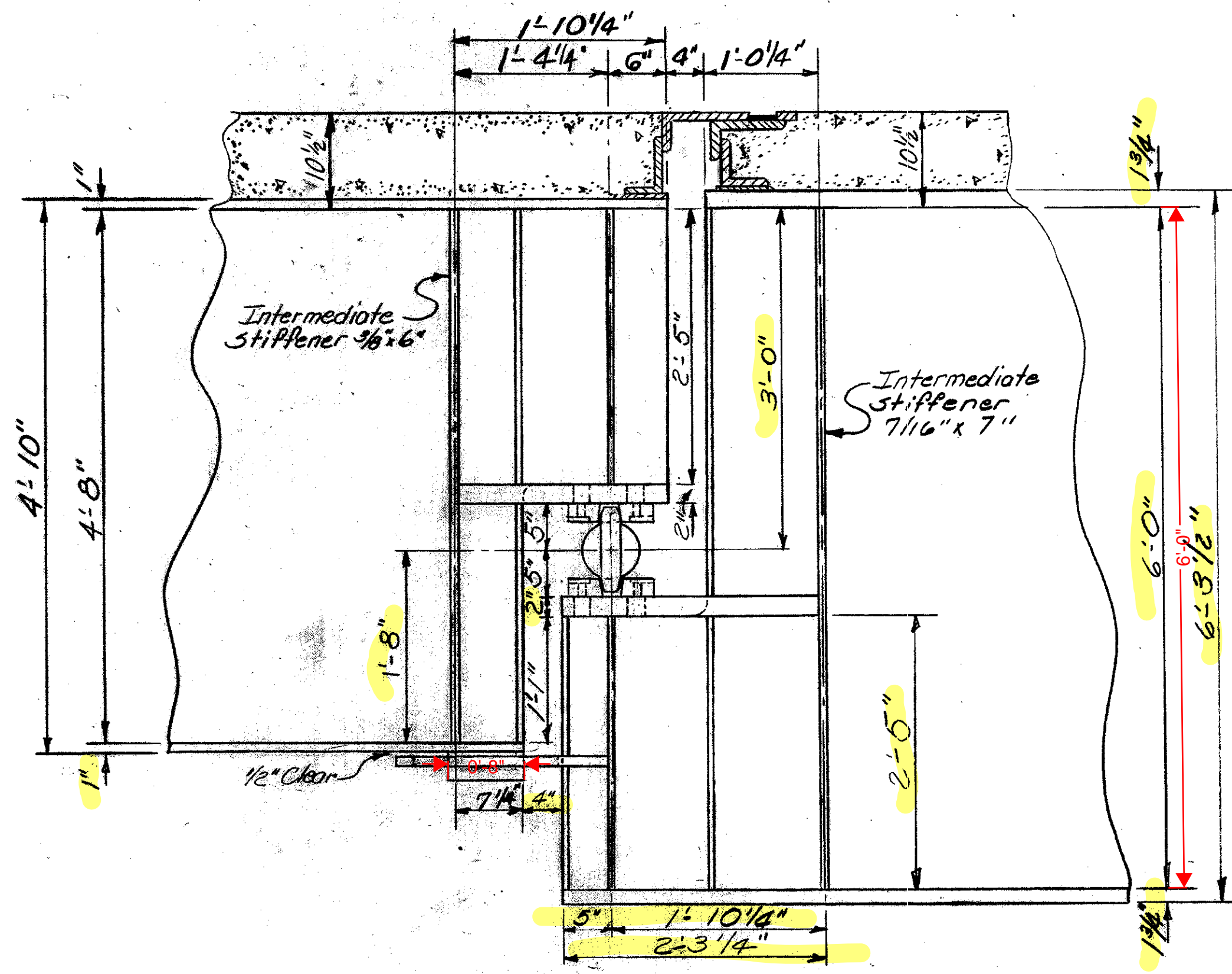
ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
GIRDER DETAILS					
BRIDGE NO. ROS-35-2532 L					
U.S.R. 35 OVER SCIOTO RIVER					
ROSS COUNTY U.S.R. 35					
STA. 1337+08.99 TO STA. 1349+94.69					
SCALE	DATE	DESIGNED	DRAWN	TRACED	CHECKED
		W.J.C.	R.J.M.	F.H.S.	N.K.
	10/29/64				

ROSS COUNTY
ROS-35-25.05



ROLLER DETAILS

ROLLER BEARING PLATE



HINGE ASSEMBLY

DEFLECTION AND CAMBER											
SPAN	INTERIOR GIRDERS						EXTERIOR GIRDERS				
	DISTANCE FROM E BEARING	DEFLECTION DUE TO WEIGHT OF STEEL	DEFLECTION DUE TO REMAINING DEAD LOAD	CONVEXITY REQUIRED FOR VERTICAL CURVE	SUM OF DEFLECTION AND CONVEXITY	REQUIRED CAMBER	DEFLECTION DUE TO WEIGHT OF STEEL	DEFLECTION DUE TO REMAINING DEAD LOAD	CONVEXITY REQUIRED FOR VERTICAL CURVE	SUM OF DEFLECTION AND CONVEXITY	REQUIRED CAMBER
1ST SPAN	23.40'	.15"	.44"	---	.59"	3/8"	.15"	.53"	---	.68"	3/8"
	46.80'	.17"	.50"	---	.67"	5/8"	.17"	.61"	---	.78"	3/4"
2ND SPAN	29.25'	.05"	.22"	---	.29"	1/4"	.07"	.26"	---	.33"	3/8"
	58.50'	.05"	.14"	---	.19"	1/4"	.05"	.16"	---	.21"	1/4"
3RD SPAN	29.25'	.05"	.16"	---	.21"	1/4"	.05"	.19"	---	.24"	1/4"
	58.50'	.18"	.53"	---	.71"	3/4"	.18"	.64"	---	0.82"	7/8"
4TH SPAN	29.25'	.04"	.13"	.24"	.41"	3/8"	.04"	.16"	.24"	0.44"	1/2"
	58.50'	.16"	.47"	.33"	.96"	1"	.16"	.57"	.33"	1.06"	1"
5TH SPAN	23.40'	.11"	.23"	.23"	.35"	3/8"	.01"	.13"	.23"	0.37"	3/8"
	46.80'	.10"	.48"	.35"	.93"	7/8"	.10"	.57"	.35"	1.02"	1"
6TH SPAN	70.20'	.10"	.54"	.37"	1.01"	1"	.10"	.67"	.37"	1.14"	1 1/8"
	93.60'	-.06"	.19"	.29"	.42"	3/8"	-.06"	.23"	.29"	0.46"	1/2"
6TH SPAN	35.00'	.19"	.32"	.35"	.86"	7/8"	.19"	.38"	.35"	0.92"	7/8"
	70.00'	.30"	.54"	.47"	1.31"	1 1/4"	.30"	.65"	.47"	1.42"	1 3/8"
	105.00'	.19"	.32"	.35"	.86"	7/8"	.19"	.38"	.35"	0.92"	7/8"

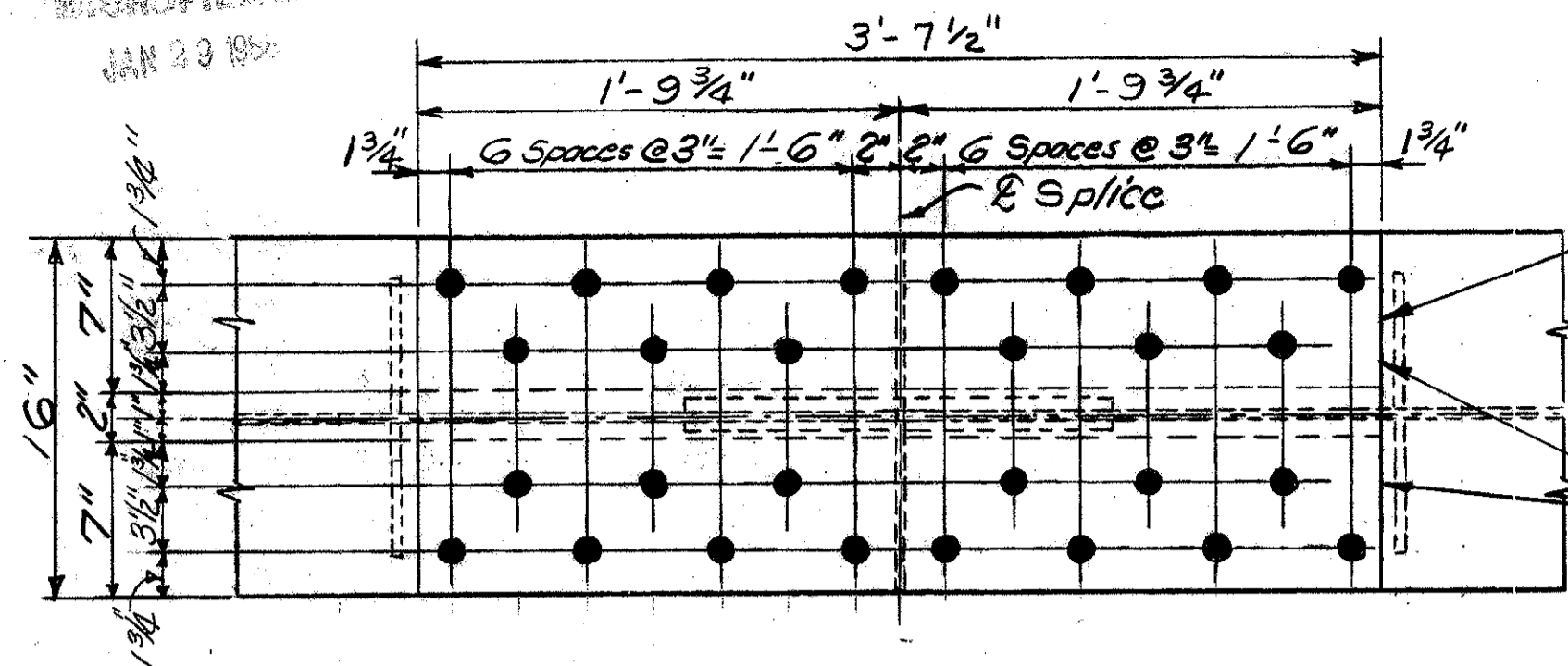
ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

ROLLER DETAILS AND DEFLECTION AND CAMBER
BRIDGE NO ROS-35-2532 L
U.S.R. 35 OVER SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.69
SCALE DATE

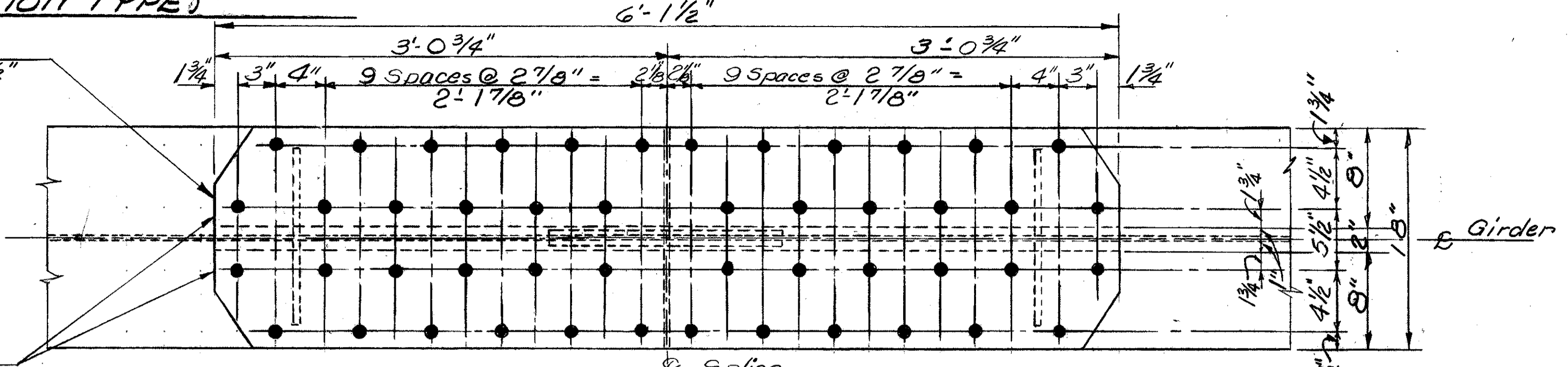
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.C.	R.J.M.		F.H.S.	M.L.	10/21/44	

ROSS COUNTY
ROS-35-25.05

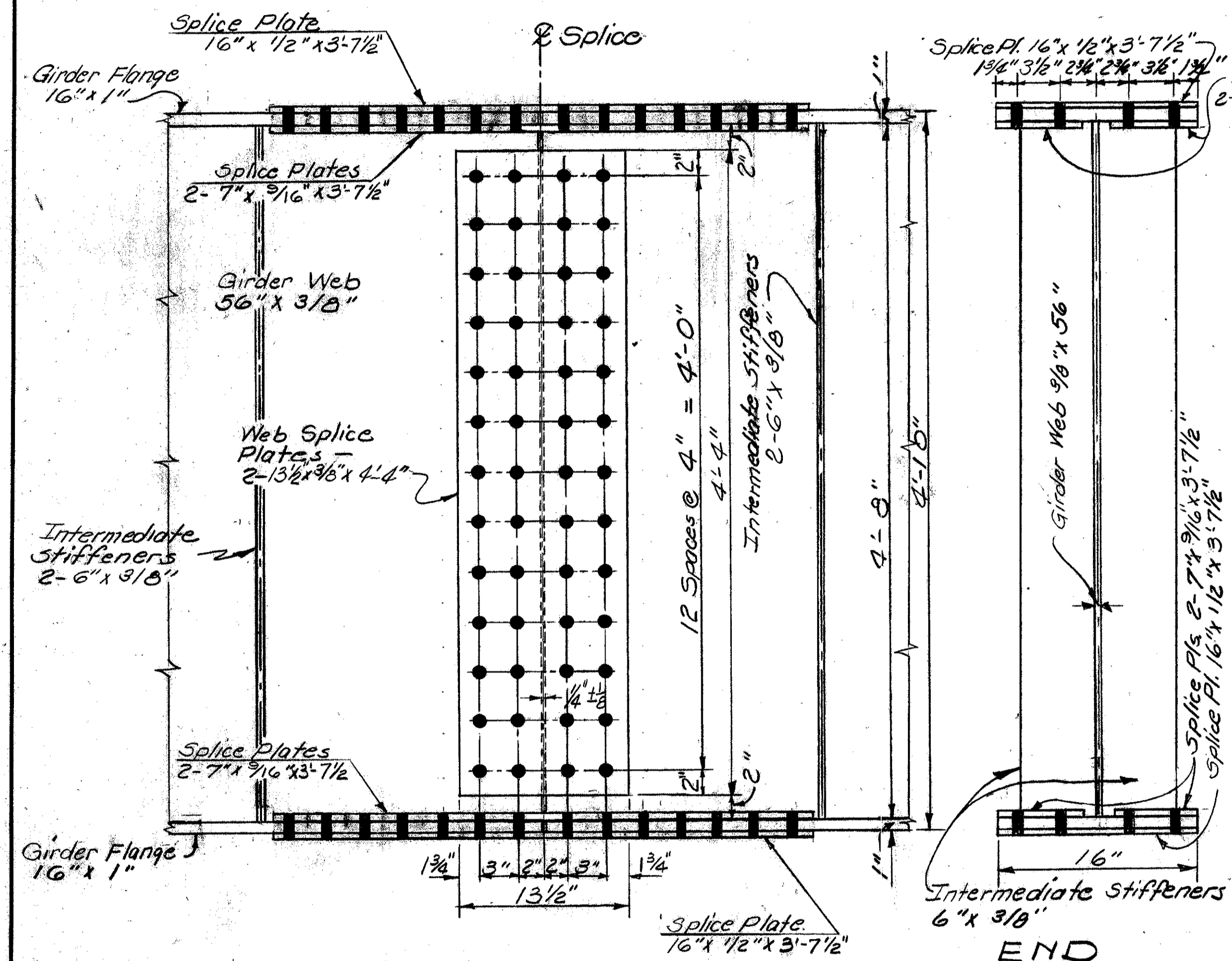
FIELD SPLICE DETAILS
(FEIGNION TYPE)



PLAN

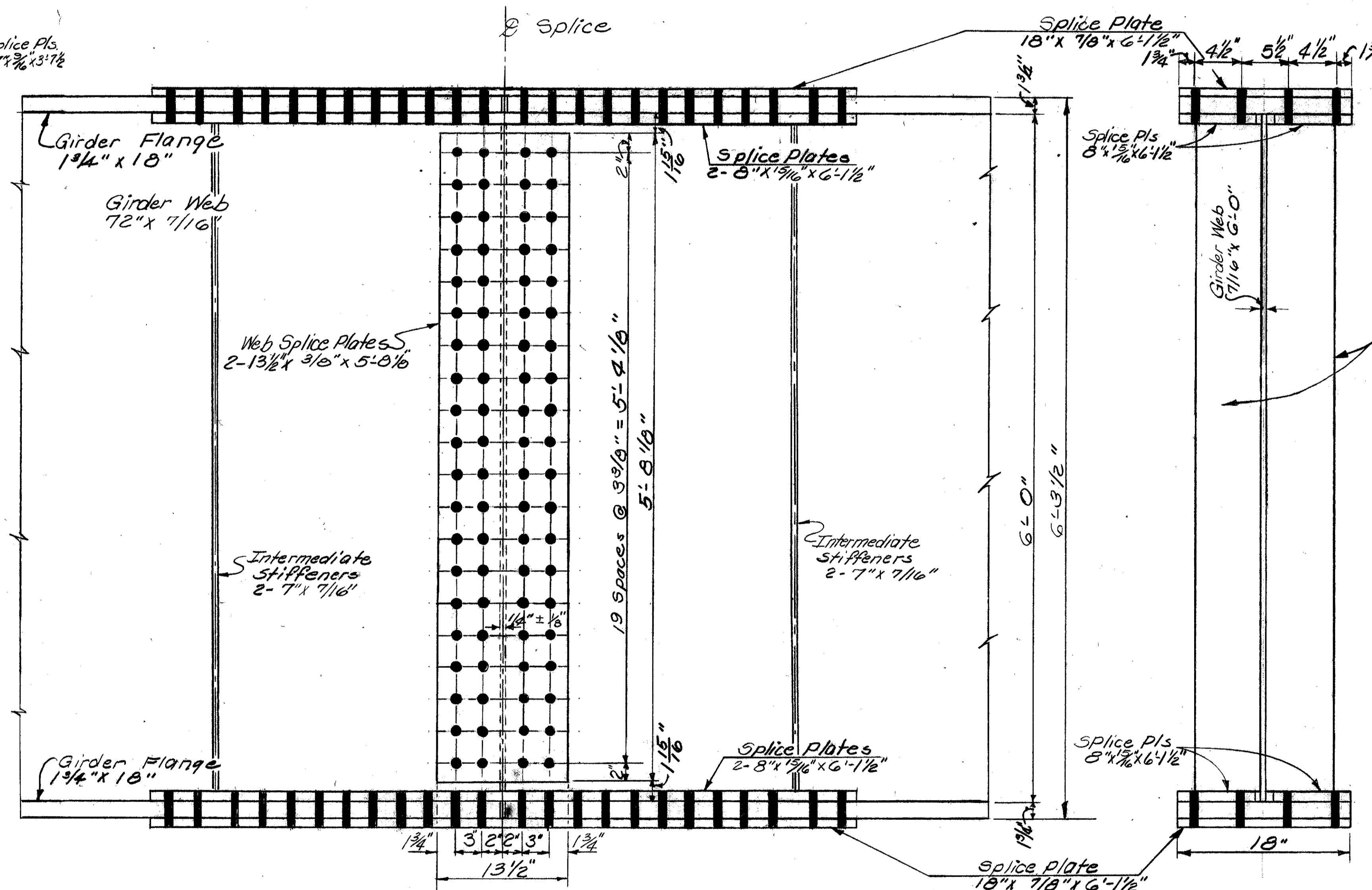


PLAN



ELEVATION

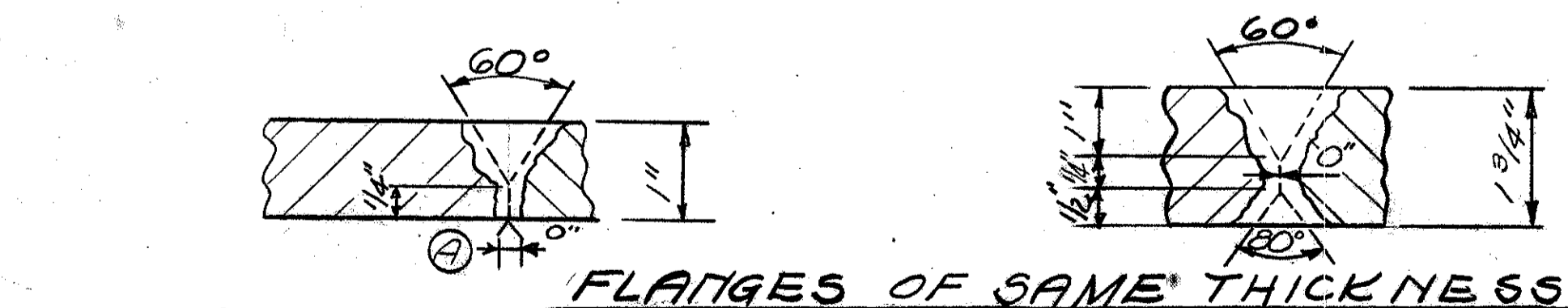
END UNITS



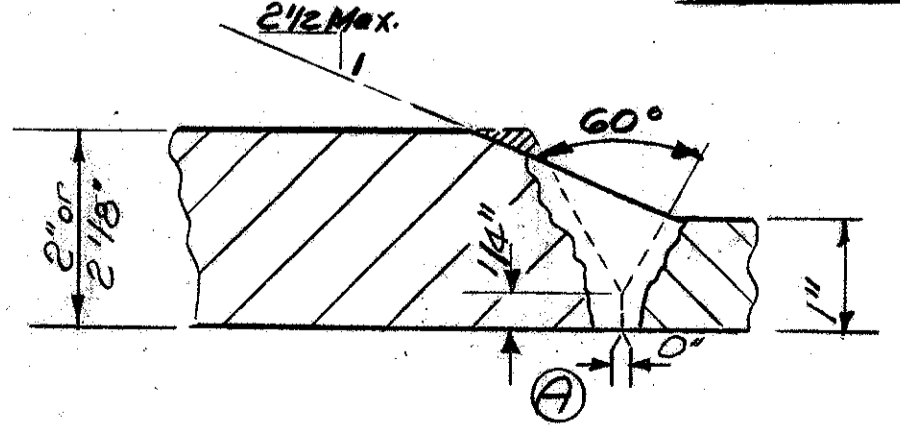
ELEVATION

CENTER UNIT

END ELEVATION

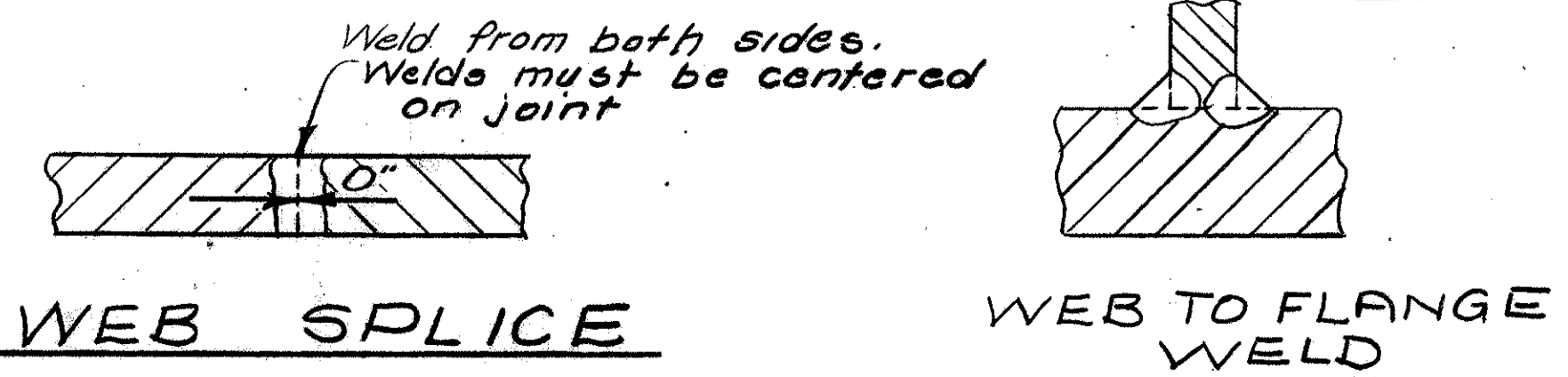


FLANGES OF SAME THICKNESS



FLANGES OF DIFFERENT THICKNESS

WELDED JOINTS
Automatic Submerged Arc Process
(G) All flange butt-welds shall be ground flush.
Note (A) Weld after placing at least one pass on other side.
Optional shop splices will be permitted in the webs and flanges of girders but their location shall be submitted to the Director for approval.



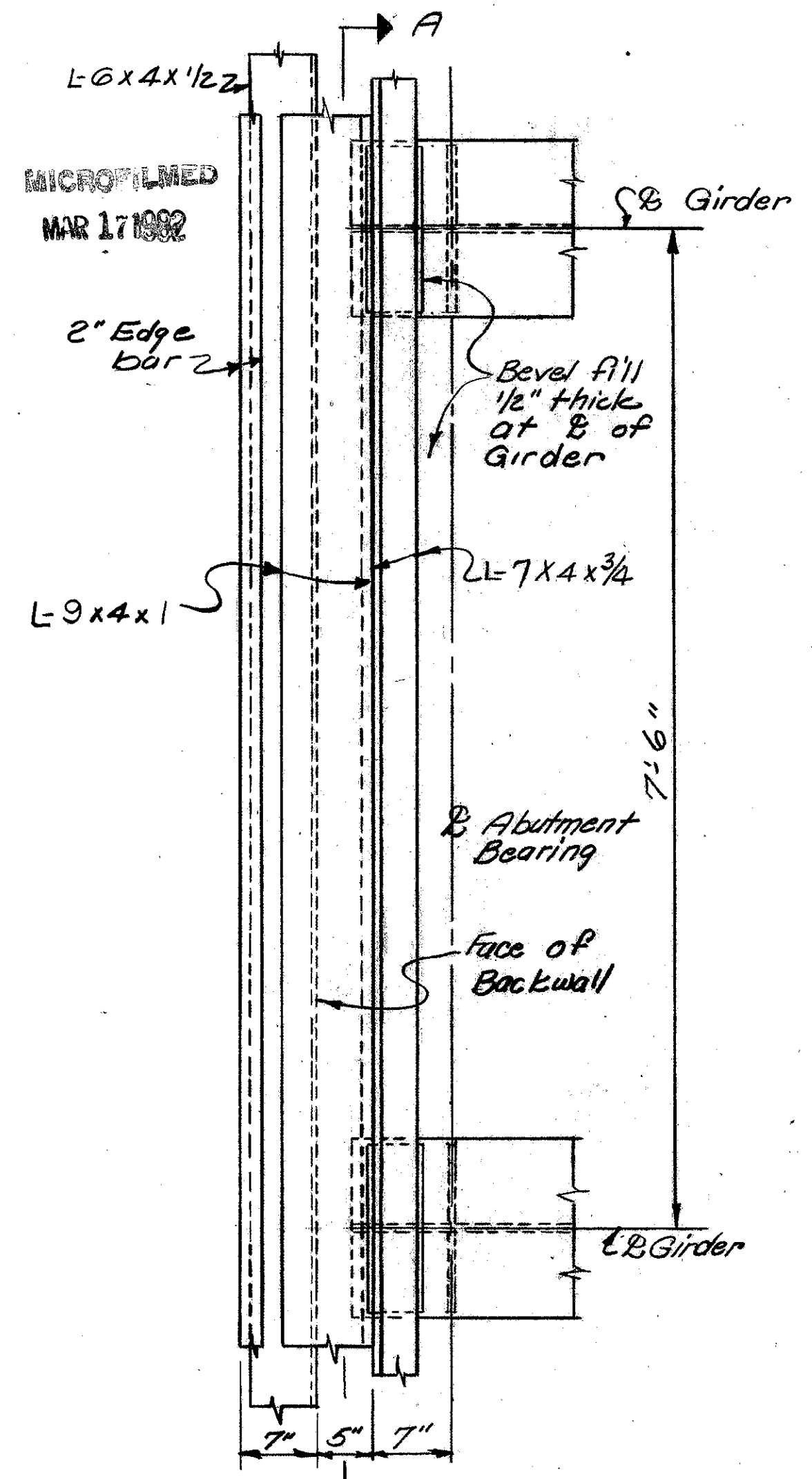
WEB SPLICE

WEB TO FLANGE WELD

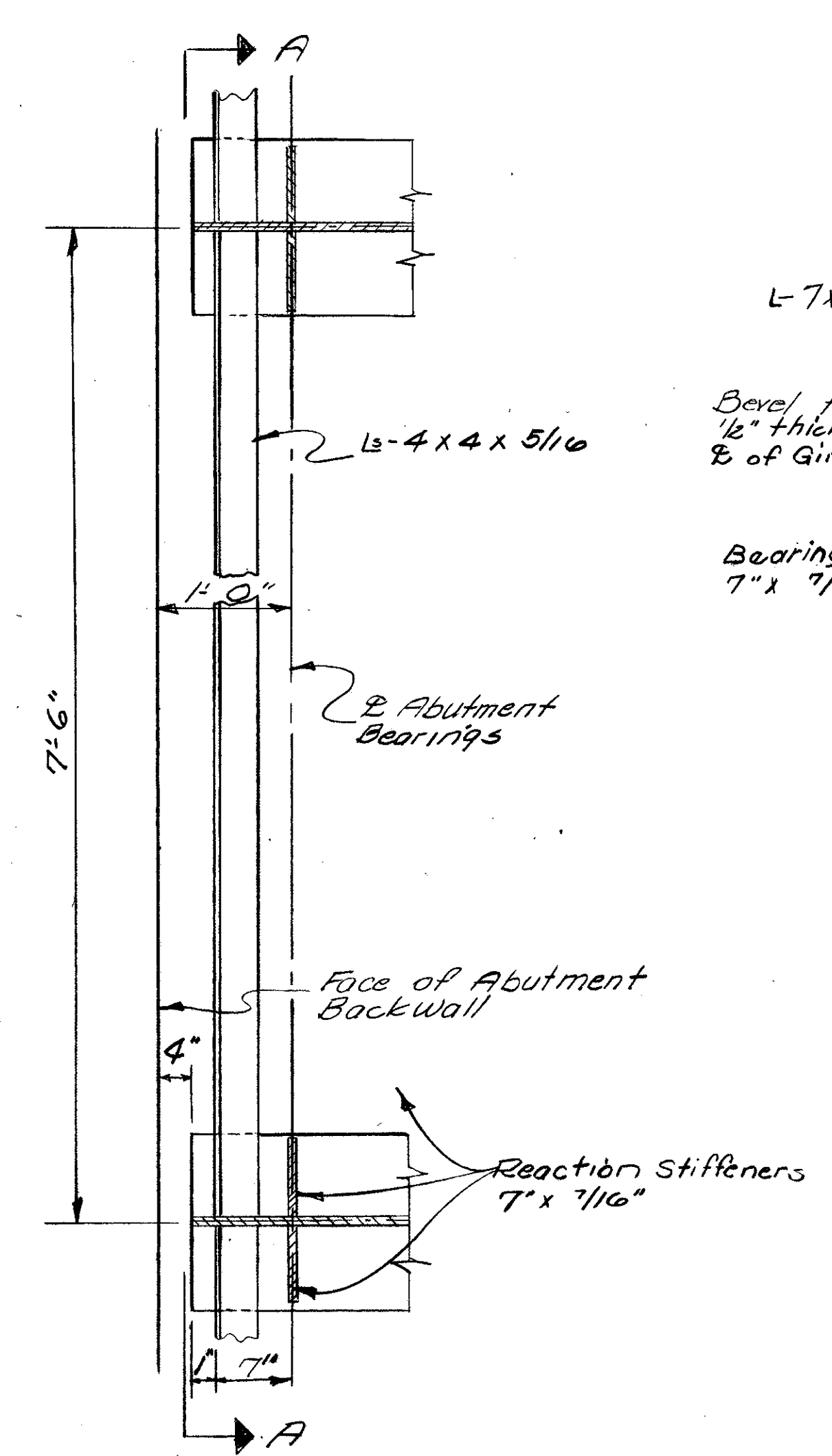
Notes: See Sheet No. 126 for Field Splice Notes

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio						
GIRDER SPLICE DETAILS						
BRIDGE NO. ROS-35-2532 L						
U.S.R. 35 OVER SCIOTO RIVER						
ROSS COUNTY U.S.R. 35						
STA. 1337+08.99 TO STA. 1349+94.69						
SCALE	DATE	DESIGNED	DRAWN	TRAGED	CHECKED	REVIEWED
		WIC	P.J.M.		F.H.S.	

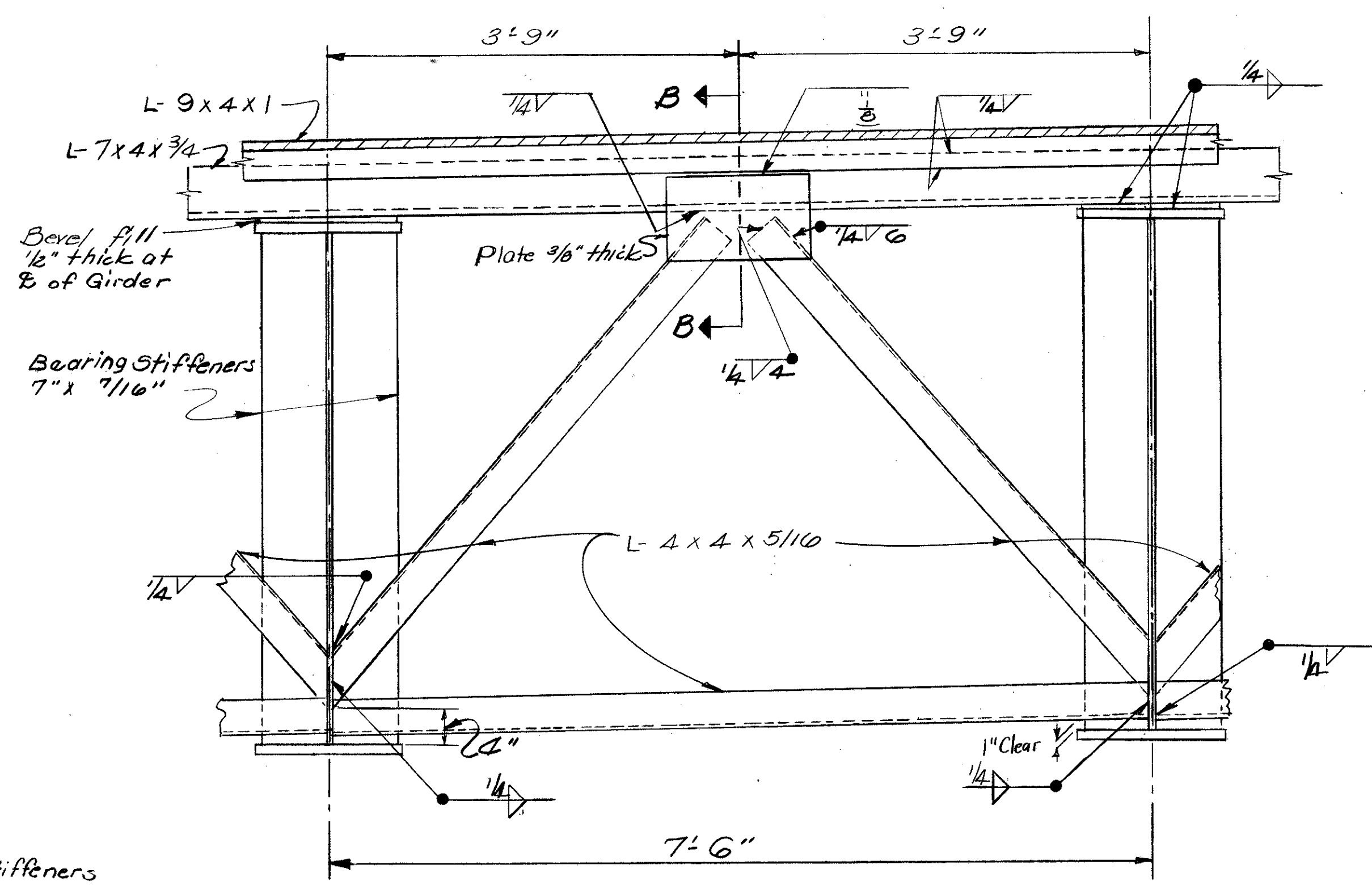
ROSS COUNTY
ROS-35-25.05



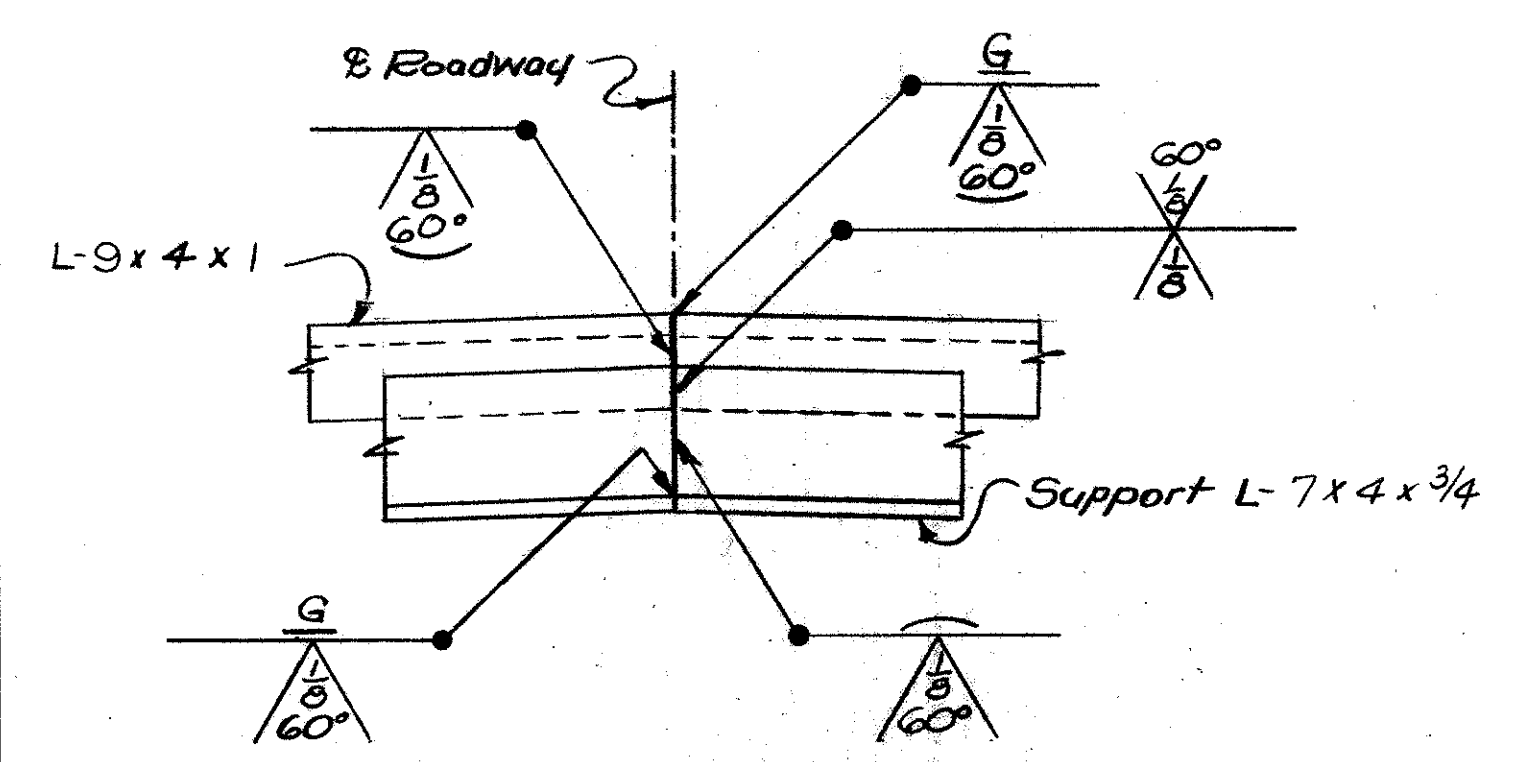
**PART PLAN
END DAM**



**PART PLAN
END CROSSFRAMES**



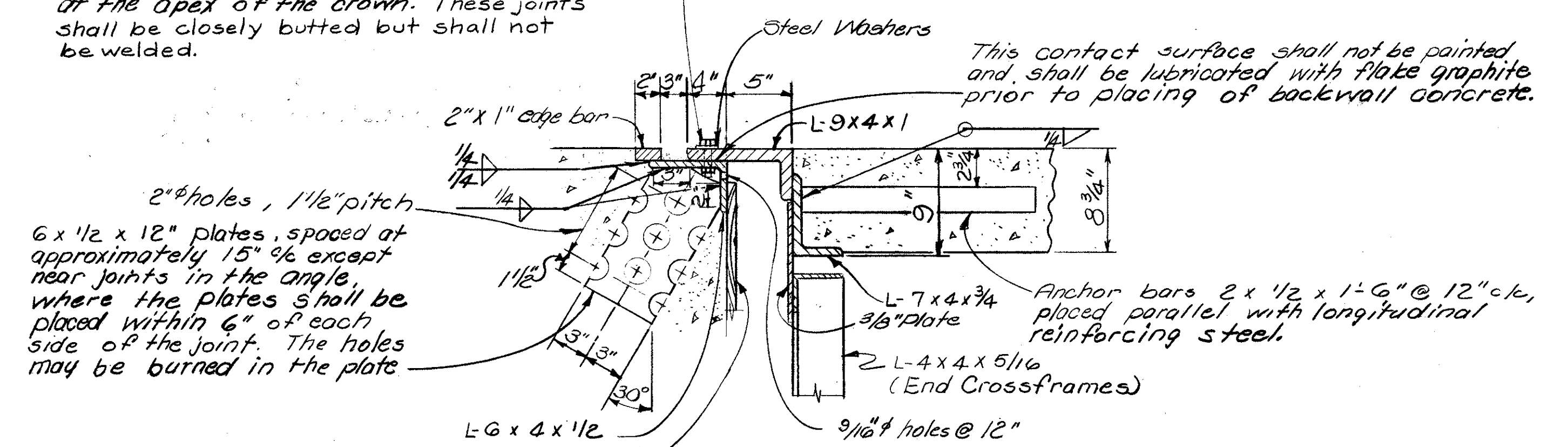
SECTION A-A



**WELDED BUTT JOINT IN SUPERSTRUCTURE
END DAM ANGLES AT 1/2 OF ROADWAY**

A welded butt joint in the end dam, along the centerline of roadway, will be required for that portion of the end dam attached to the superstructure. The portion attached to the backwall shall be placed in segments not less than 6'-0" in length, with one of the joints at the apex of the crown. These joints shall be closely butted but shall not be welded.

5/8"x2 1/4" bolts at not more than 2'-0" o.c. with nuts tack-welded to under side of lower angle. 1 1/16" holes in upper angle. Center 3/8" bolts in 1 1/16" holes. Apply plate graphite between washers and angle. Turn bolt tight and release one-half turn. Remove bolts as soon as concrete has set, preferably within two hours after placing, to avoid damage due to temperature expansion or contraction of superstructure. Fill holes with bituminous material.



2" holes, 1 1/2" pitch
6 x 1/2 x 12" plates, spaced at approximately 15" o.c. except near joints in the angle where the plates shall be placed within 6" of each side of the joint. The holes may be burned in the plate

This contact surface shall not be painted and shall be lubricated with plate graphite prior to placing of backwall concrete.

Top of backwall form shall be below 3/16" holes in L-6 x 4 x 1/2.

Omit shop coat on all portions of end dam. Portions in contact with steel or with concrete shall not be painted. All other portions shall be cleaned and given the shop coat in the field as well as the two field coats.

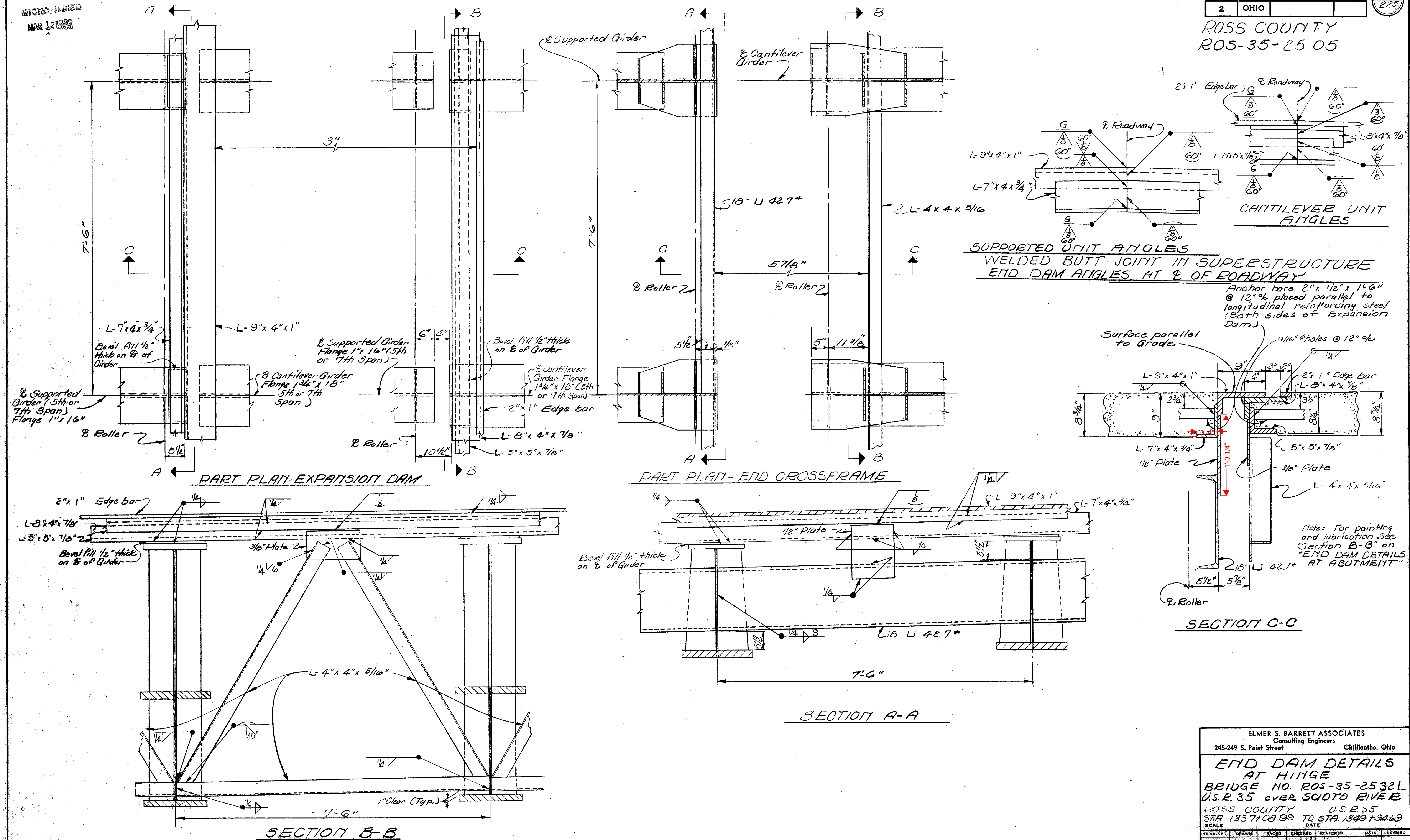
SECTION B-B

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio						
END DAM DETAILS AT ABUTMENT						
BRIDGE NO ROS-35-2532 L						
U.S.R. 35 OVER SCIOTO RIVER						
ROSS COUNTY U.S.R. 35						
STA. 1337+08.99 TO STA. 1349+94.69						
SCALE	DATE	DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
		WIC	RJM			FHS/NK 10/29/64

MICROFILMED
MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT	137 223
2	OHIO		

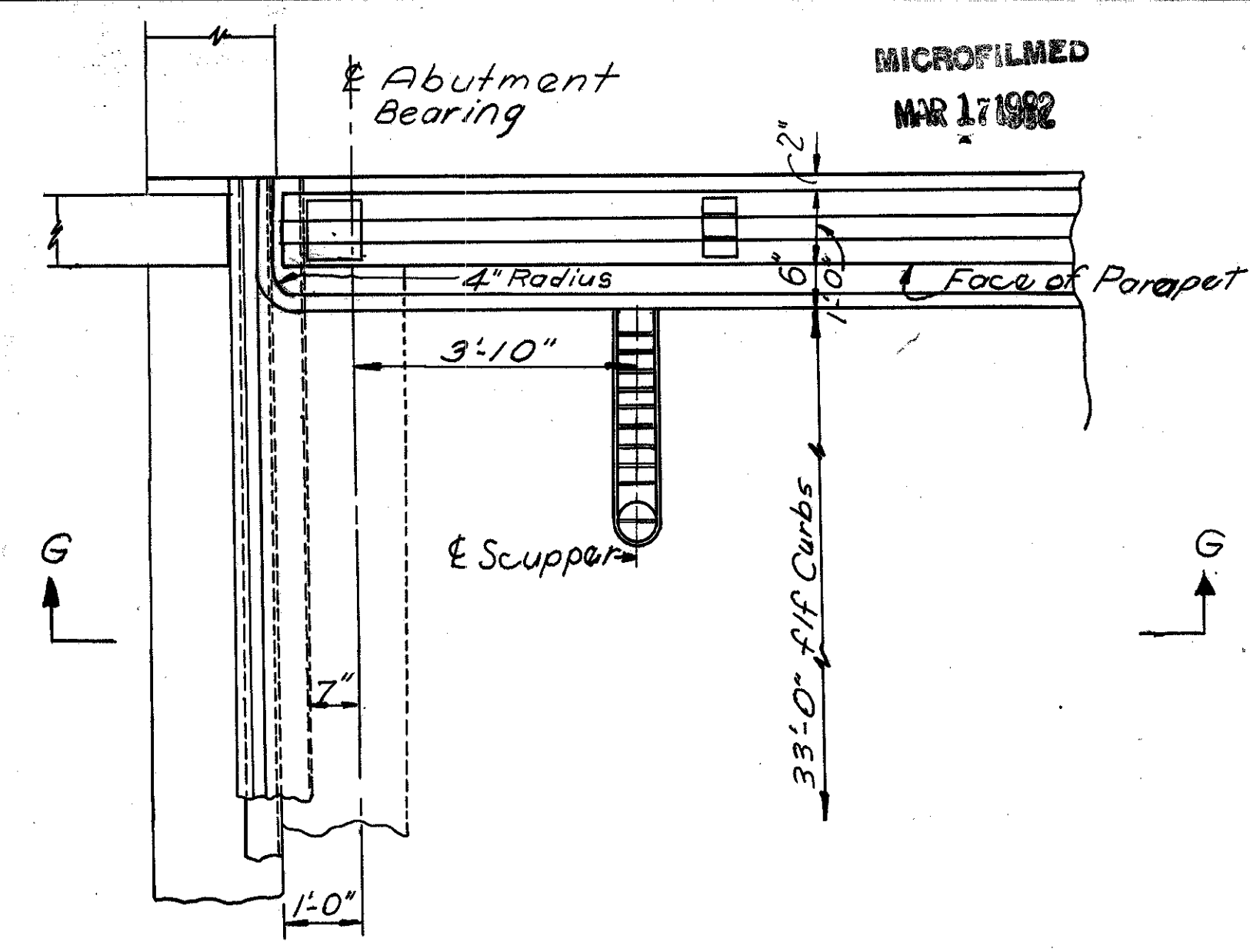
ROSS COUNTY
ROS-35-25.05



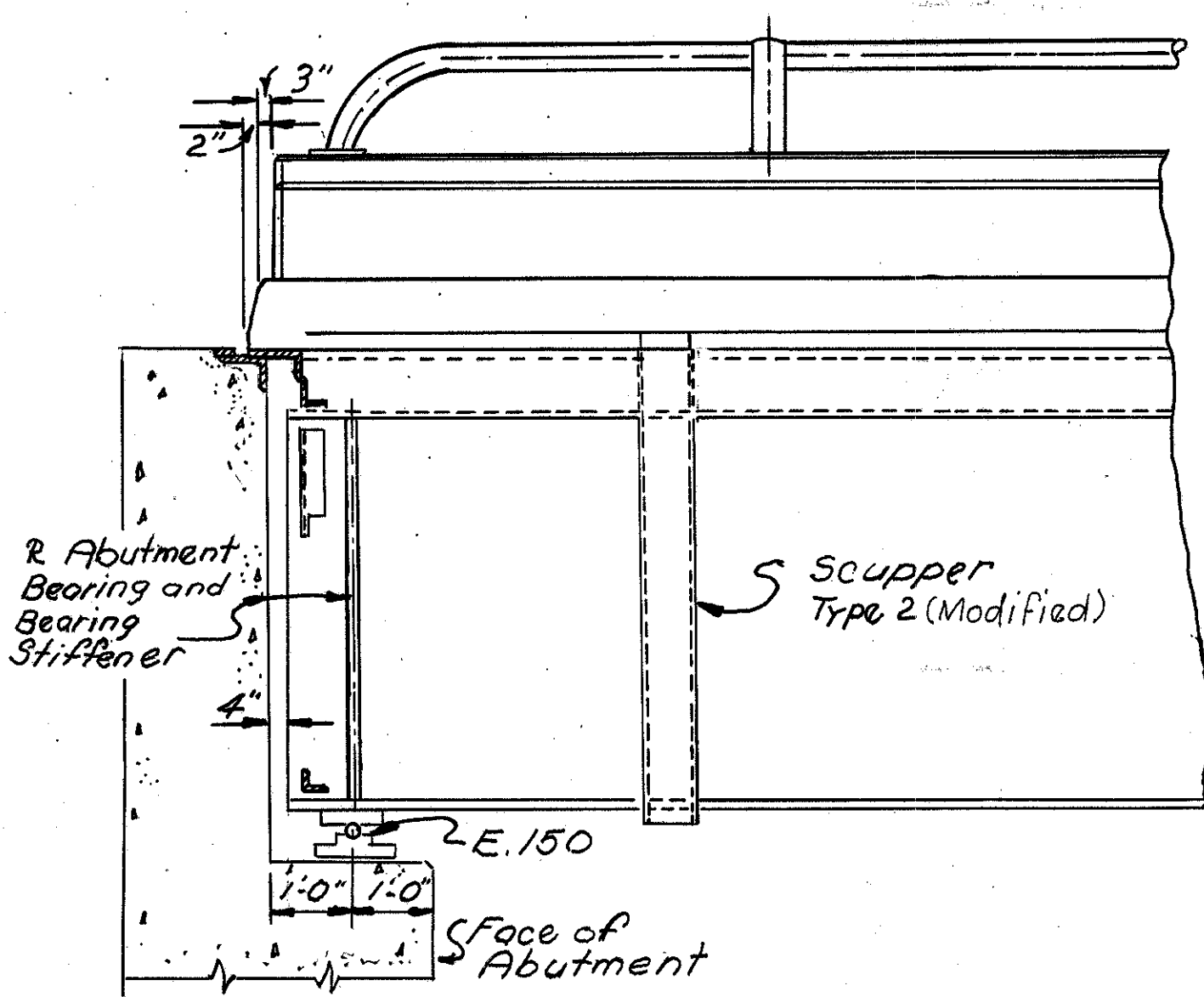
ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio						
END DAM DETAILS AT HINGE						
BRIDGE NO. ROS-35-2532L						
U.S.R. 35 OVER SCOTO RIVER						
ROSS COUNTY U.S.R. 35						
STA. 1337+08.99 TO STA. 1349+94.69						
SCALE DATE						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WJC	RJM		JHB	WK	10/29/64	

ROSS COUNTY
ROS-35-25.05

138
225

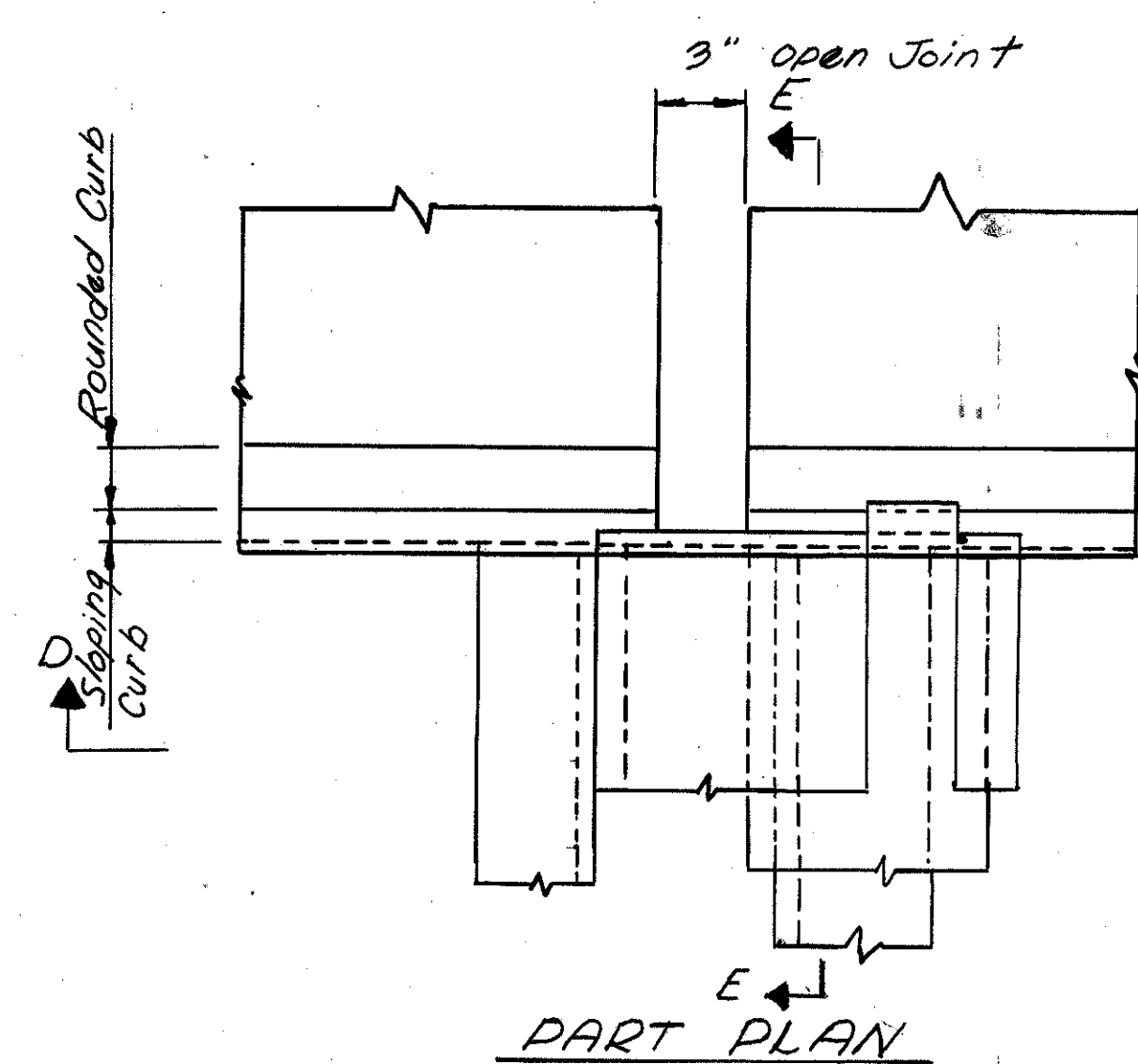


PART PLAN AT ABUTMENT

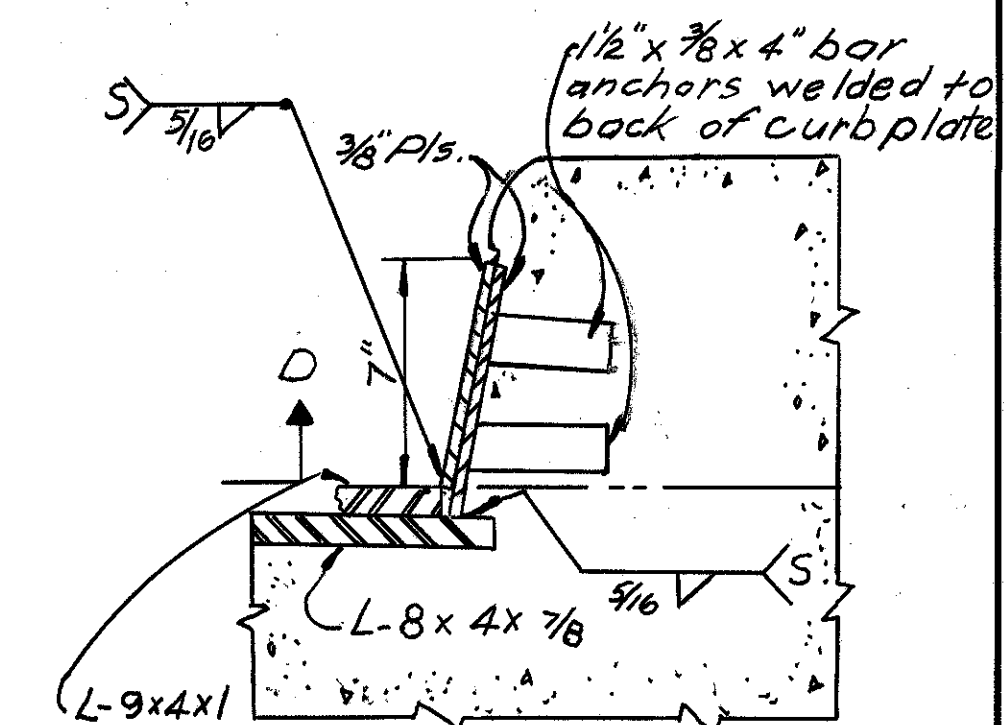


SECTION G-G

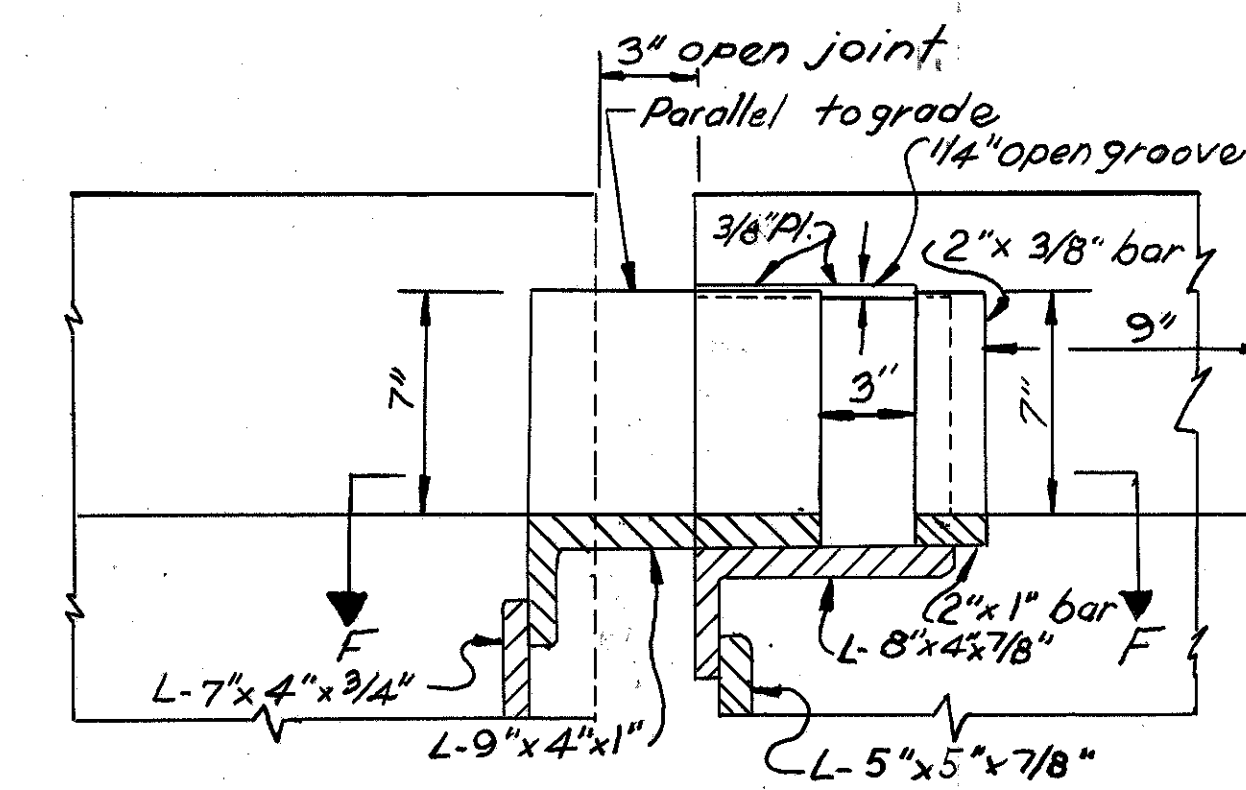
NOTES
See std. Dwg. SD-1-65 for Scupper details -
modify dimensions to suit installation.



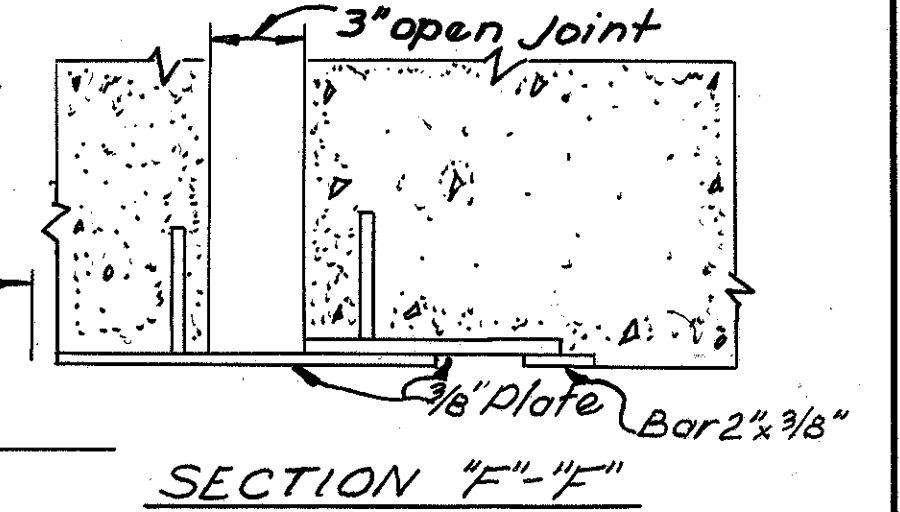
PART PLAN



SECTION E-E



SECTION D-D
EXPANSION DAM AT HINGE BEARING
CURB PLATE DETAILS



SECTION F-F

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

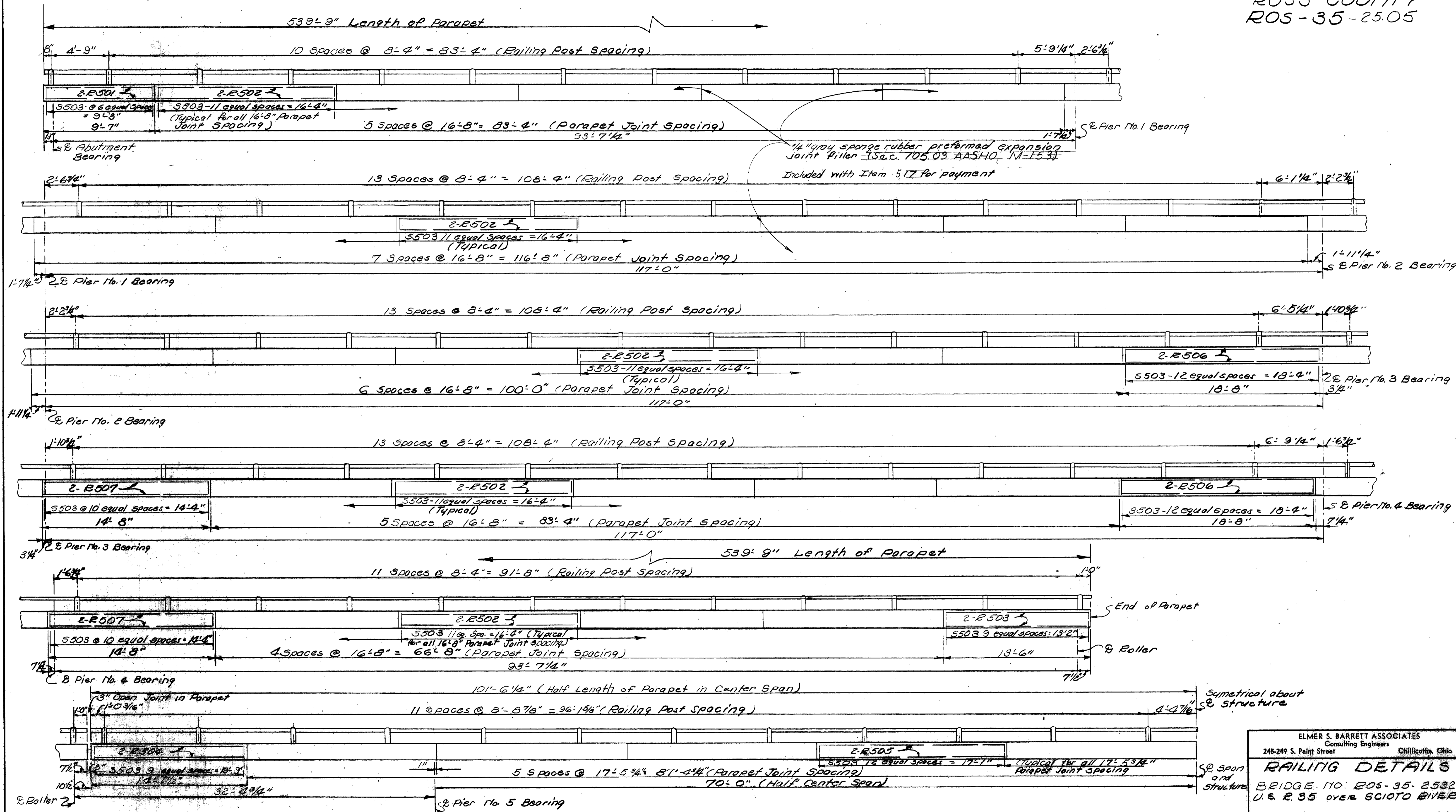
GUTTER and SCUPPER DETAILS
EXPANSION DAM DETAILS
BRIDGE NO. ROS-35-2532 L
U.S.R. 35 OVER SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA 1337+08.99 TO STA 1349+94.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
		G.F.J.				

MICROFILMED
MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT	139 225
2	OHIO		

ROSS COUNTY
ROS-35-25.05



ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

RAILING DETAILS
BRIDGE NO. ROS-35-2532L
U.S. R. 35 OVER SCIOTO RIVER

ROSS COUNTY U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WIC	PJM		FHS	NK	10/29/64	

MICROFILMED

MAR 17 1982

REINFORCING STEEL LIST

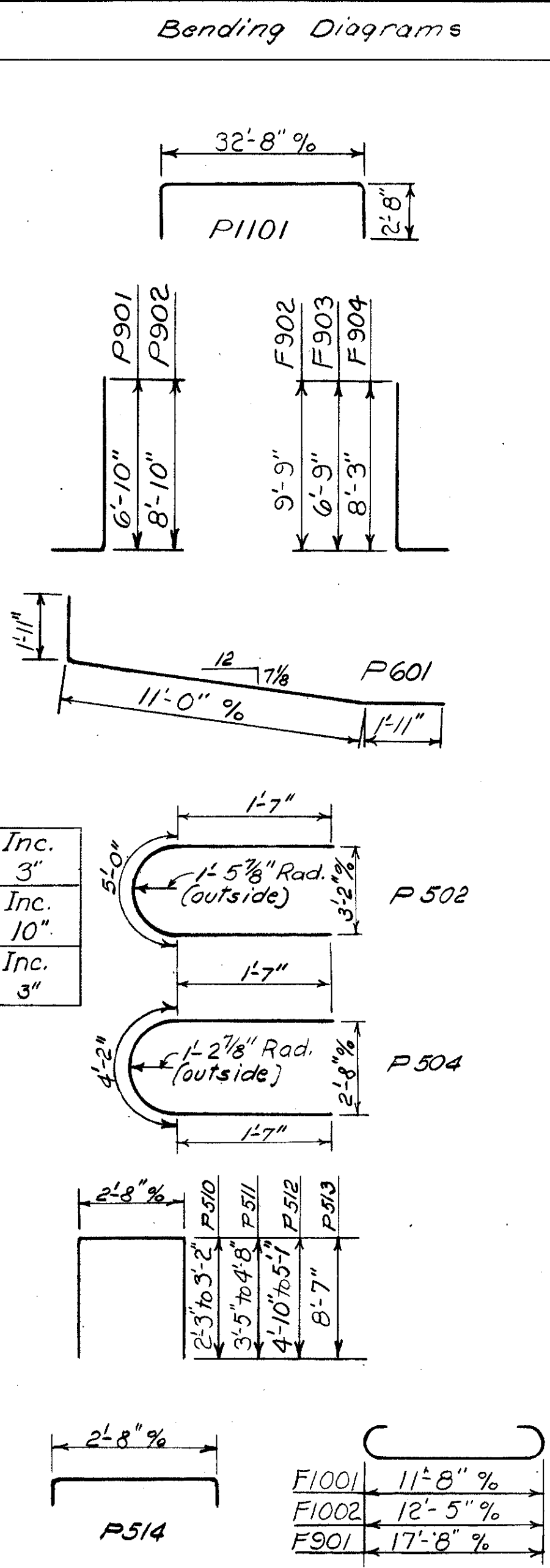
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

140
225

ROSS COUNTY
ROS-35-25.05

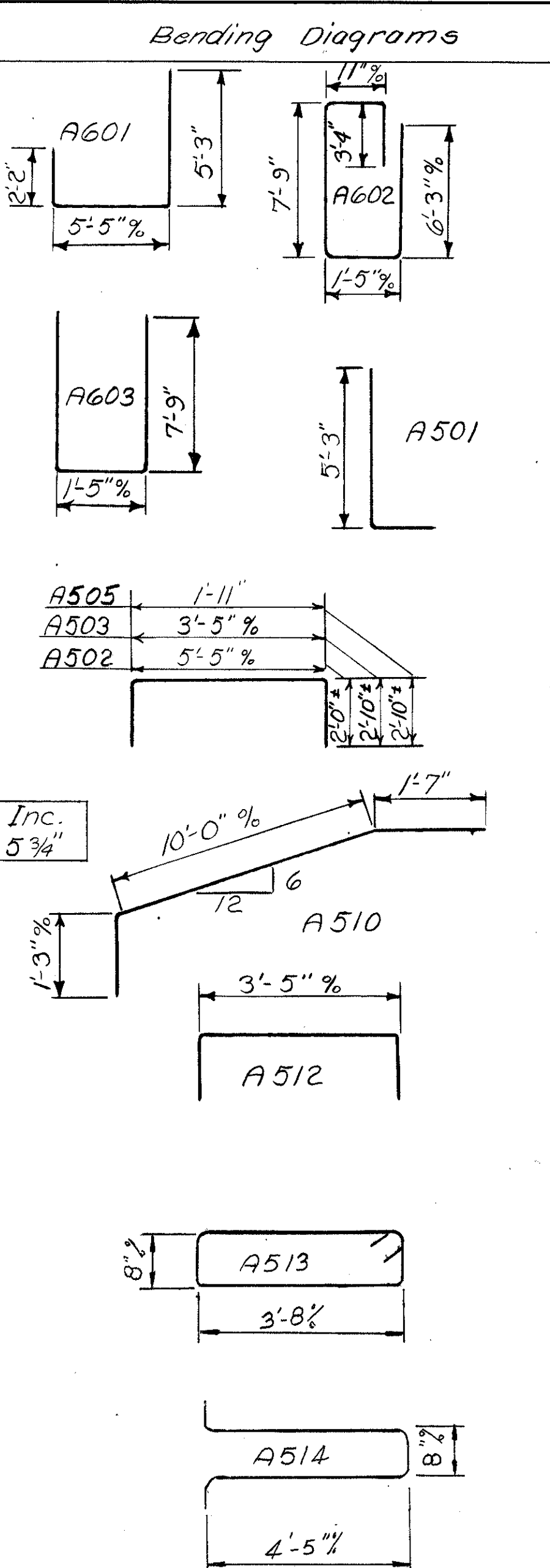
Bar Number	Number Required	Length	Shape	Weight
TEN PIERS				
P1101	60	37'-4"		11,301
P1102	40	32'-5"		6,889
P901	160	7'-10"		4,261
P902	160	9'-10"		5,349
P903	32	26'-7"		2,892
P904	32	25'-9"		2,802
P905	64	26'-0"		5,658
P906	32	27'-5"		2,983
P601	40	14'-8"		881
P501	66	10'-8"		734
P502	66	8'-2"		562
P503	240	10'-8"		2,670
P504	240	7'-4"		1,836
P505	20	13'-8"		285
P506	20	18'-9"		391
P507	20	24'-3"		506
P508	20	29'-10"		622
P509	20	32'-6"		678
P510	40 Series of 8 Bars	6'-11" to 8'-9"		2,614
P511	40 Series of 4 Bars	9'-3" to 11'-9"		1,752
P512	40 Series of 3 Bars	12'-1" to 12'-7"		1,544
P513	90	19'-7"		1,838
P514	60	3'-8"		229
F1001	232	14'-6"		14,475
F1002	58	15'-3"		3,806
F901	160	20'-2"		10,971
F902	96	10'-9"		3,509
F903	192	7'-9"		5,059
F904	32	9'-3"		1,006

TOTAL TEN PIERS 98,703



Bar Number	Number Required	Length	Shape	Weight
ONE ABUTMENT				
A801	8	22'-1"		472
A802	3	25'-2"		202
A803	3	19'-0"		152
A601	34	12'-6"		638
A602	25	19'-1"		717
A603	8	16'-8"		200
A604	12	9'-5"		170
A605	44	9'-2"		606
A501	34	5'-9"		204
A502	34	9'-2"		325
A503	26	8'-10"		240
A504	16	32'-8"		545
A505	28	7'-4"		214
A506	4	5'-0"		21
A507	4	8'-3"		34
A508	4	12'-0"		50
A509	16	14'-0"		234
A510	4	12'-9"		53
A511	4 Series of 9 bars	5'-0" to 8'-10"		260
A512	25	4'-5"		115
A513	16	9'-2"		153
A514	28	10'-3"		299

TOTAL TWO ABUTMENTS 10,805

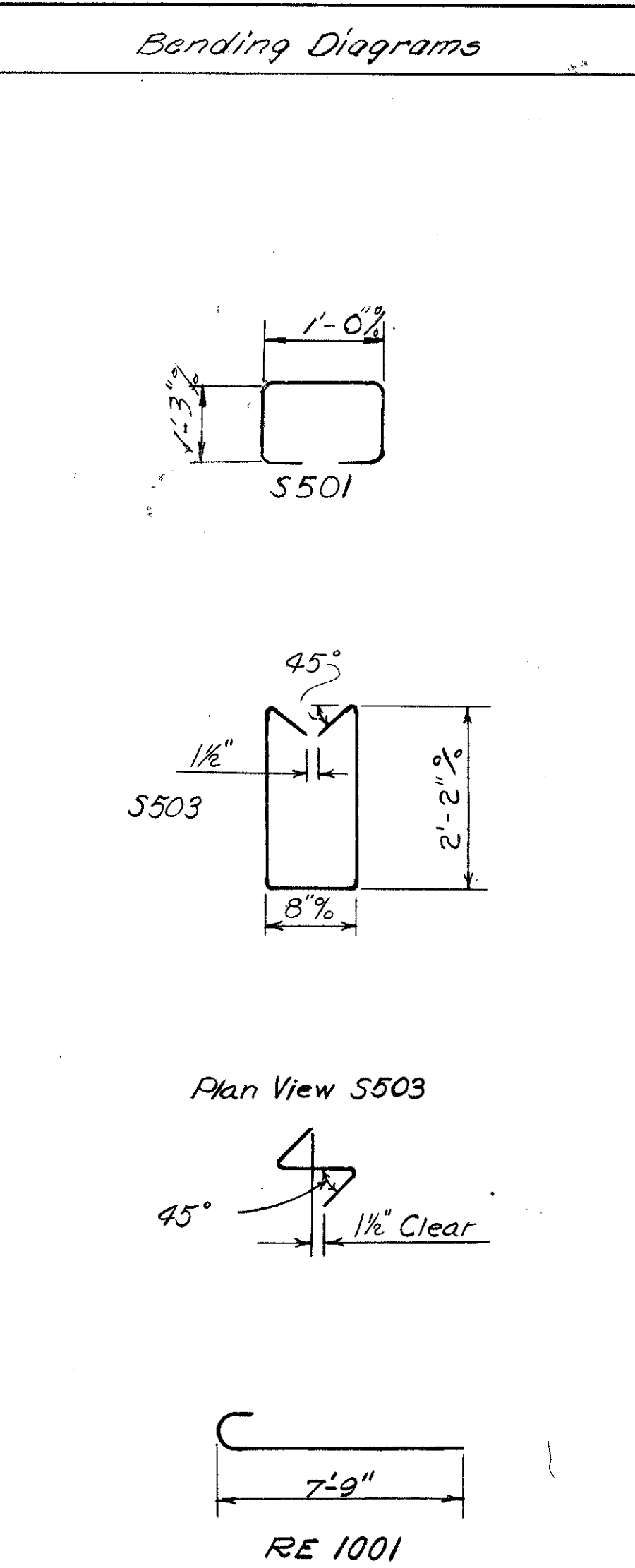


Bar Number	Number Required	Length	Shape	Weight
SUPERSTRUCTURE				
S701	1923	35'-8"		140,192
S601	1923	35'-8"		103,018
S602	2394	30'-8"		108,773
S603	441	30'-8"		20,313
S604	208	18'-11"		5,910
S605	260	30'-0"		11,716
S606	52	27'-11"		2,180
S501	1712	4'-6"		8035
S503	1856	5'-7"		10,808
TOTAL SUPERSTRUCTURE 410,945				

TOTAL SUPERSTRUCTURE 410,945

Bar Number	Number Required	Length	Shape	Weight
RAILING STEEL				
R501	16	9'-3"		
R502	432	16'-4"		
R503	16	13'-2"		
R504	16	13'-9"		
R505	80	17'-11"		
R506	32	18'-4"		
R507	32	14'-4"		

Bar Number	Number Required	Length	Shape	Weight
REPLACEMENT STEEL				
RE1101	1	8'-6"		
RE1001	1	8'-2"		
RE901	3	7'-10"		
RE801	1	7'-6"		
RE701	8	7'-2"		
RE601	13	6'-11"		
RE501	3	6'-7"		



-NOTES-

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, A501 is a No. 5 size bar and A1001 is a No. 10 size.

RAILING STEEL in the parapet wall is included in Item 517 Railing for payment.

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

REINFORCING STEEL LIST
BRIDGE No. ROS-35-2532 L
U.S.R. 35 over SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 To STA. 1349+94.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WIC	DER		SKJ	JK	10/24/84	