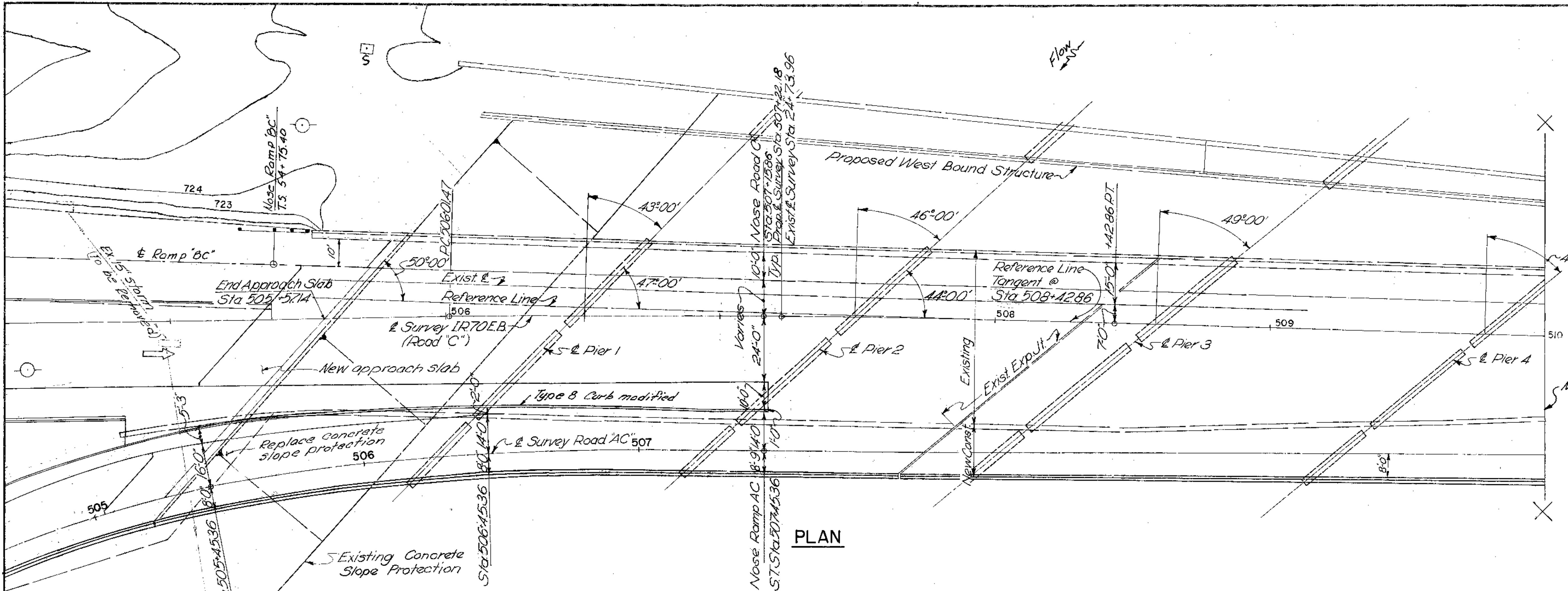


FED. RD. 2	STATE OHIO	PROJECT 785
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FRANKLIN COUNTY
FRA-70-12.3IS



1986 DDHV
8160
1986 ADT
82,000

ALL PILES ARE HP 12 x 53
The Estimated Average Pay Lengths Are:

ABUTMENTS 30'
PIERS 1-6 25'
PIERS 7 & 8 30'

PROPOSED STRUCTURE
TYPE: Continuous Steel Girder with Reinforced Concrete Deck and Substructure
SPANS: 85', 100', 109', 119', 128', 119', 111', 102', 90' c/c brgs. along Tangent and Ref. Line
ROADWAY: Varies, Barrier Parapets Both Sides
LIVE LOAD: HS-20-44 & Interstate Alternate
SKEW: Varies
WEARING SURFACE: Variable Thickness Bitum.
APPROACH SLABS: (25' Long) A.S.-I-67
ALIGNMENT: Tan, 1°-00' Curve Rt, Tan, 1°-00' Curve Rt.
SUPERELEVATION: .024'/FT Max.

Drainage Area: 1,615 sq. mi.
Q (50yr. frequency): 46,000 cfs.
1959 Flood Q
(100yr. frequency): 68,200 cfs.

EXISTING STRUCTURE (to be widened)
TYPE: Continuous Steel Girder with Reinforced Deck and Substructure
SPANS: 84.35', 99.28', 108.20', 119', 128', 119', 111', 102', 90', c/c brgs. measure on reference tangent and its extension
ROADWAY: Varies, Parapet Right, Curb, Parapet Lt.
LIVE LOAD: CF 2000 Ohio 1951 Specs.

SKEW: Varies
WEARING SURFACE: 2-1/2" Bituminous
APPROACH SLAB: 25' Long
ALIGNMENT: Tangent and 1°-00' Curve Right
SUPERELEVATION: 0.017'/FT.

E. S. PRESTON & ASSOCIATES, LIMITED 1/43
ENGINEERS
COLUMBUS, OHIO

SITE PLAN

BRIDGE NO. FRA-70-1328S-E.B.
ADDITION TO BRIDGE NO. FRA-70-1328S
OVER SCIOTO RIVER
STA. 505+57.14
STA. 515+15.35

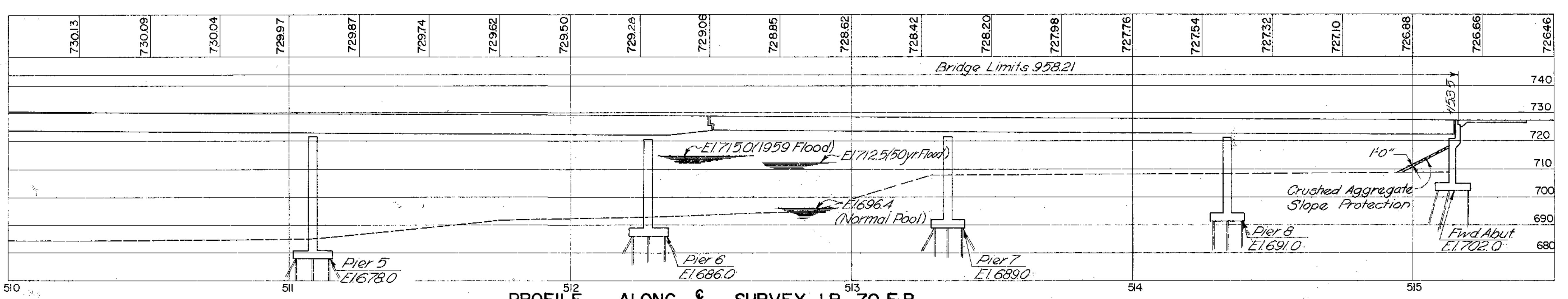
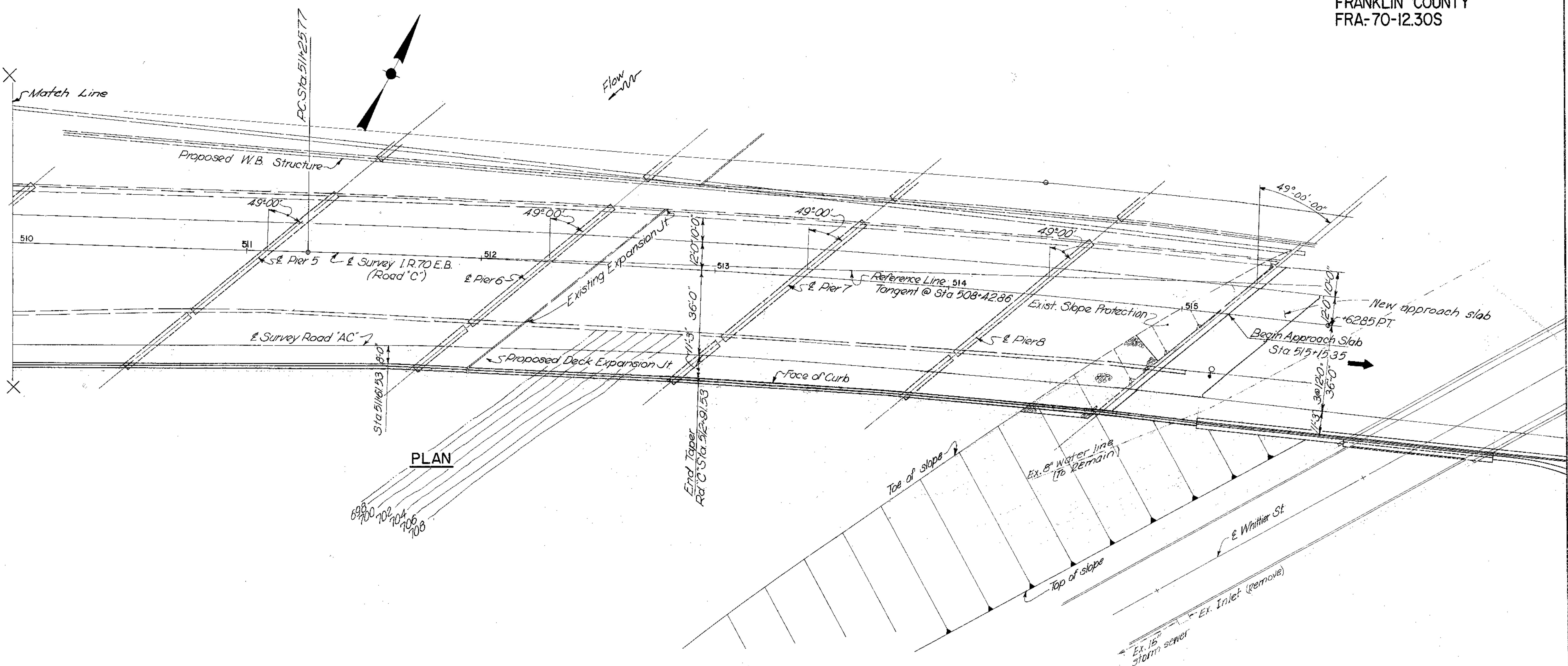
PROPOSED HORIZONTAL CURVE DATA ROAD C

CURVE NO. 3
PI Sta. 507+2218
Dc = 1°00'00"
 Δ = 2°24'50"
Tc = 120.708
Rc = 5729.578
Lc = 241.38

Proposed
Survey Points
(P) 505, 506, 507, 508, 509, 510
Existing Points
(E) 724, 723, 729.32, 729.16, 729.03, 728.99, 728.97, 728.96, 728.95, 728.94, 728.93, 728.92, 728.91, 728.90, 728.89, 728.88, 728.87, 728.86, 728.85, 728.84, 728.83, 728.82, 728.81, 728.80, 728.79, 728.78, 728.77, 728.76, 728.75, 728.74, 728.73, 728.72, 728.71, 728.70, 728.69, 728.68, 728.67, 728.66, 728.65, 728.64, 728.63, 728.62, 728.61, 728.60, 728.59, 728.58, 728.57, 728.56, 728.55, 728.54, 728.53, 728.52, 728.51, 728.50, 728.49, 728.48, 728.47, 728.46, 728.45, 728.44, 728.43, 728.42, 728.41, 728.40, 728.39, 728.38, 728.37, 728.36, 728.35, 728.34, 728.33, 728.32, 728.31, 728.30, 728.29, 728.28, 728.27, 728.26, 728.25, 728.24, 728.23, 728.22, 728.21, 728.20, 728.19, 728.18, 728.17, 728.16, 728.15, 728.14, 728.13, 728.12, 728.11, 728.10, 728.09, 728.08, 728.07, 728.06, 728.05, 728.04, 728.03, 728.02, 728.01, 728.00, 728.99, 728.98, 728.97, 728.96, 728.95, 728.94, 728.93, 728.92, 728.91, 728.90, 728.89, 728.88, 728.87, 728.86, 728.85, 728.84, 728.83, 728.82, 728.81, 728.80, 728.79, 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FED. RD. DIVISION	STATE	PROJECT	
2 OHIO			78G

FRANKLIN COUNTY
FRA-70-12.30S



E. S. PRESTON & ASSOCIATES, LIMITED 2/43
ENGINEERS
COLUMBUS, OHIO

SITE PLAN
BRIDGE NO. FRA-70-1328S-E.B.
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230
OVER SCIOTO RIVER

STA. 505+57.4	STA. 515+15.35
510	511
512	513
514	515

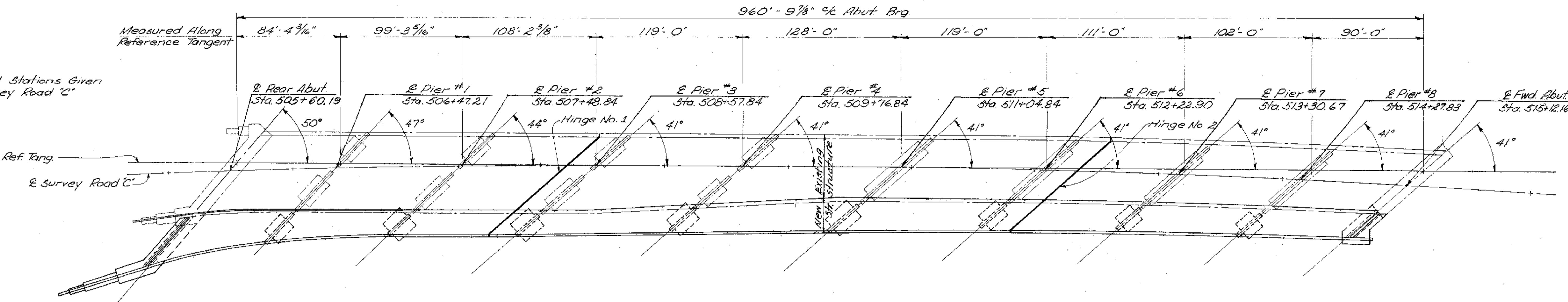
FRANKLIN COUNTY

DESIGNED A.S.B.	DRAWN R.J.B.	TRACED J.N.L.	CHECKED A.J.M.	REVIEWED NEN 9-870	Revised
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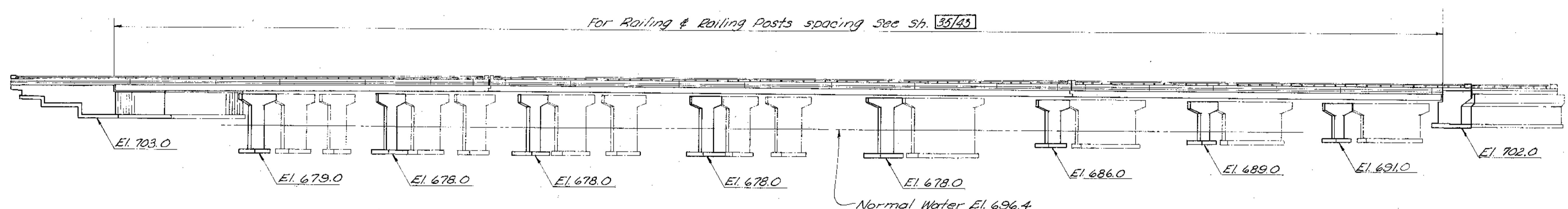
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

787

FRANKLIN COUNTY
FRA-70-12.31S



GENERAL PLAN



ELEVATION
(PILES NOT SHOWN)

E. S. PRESTON & ASSOCIATES, LIMITED					
ENGINEERS					
COLUMBUS, OHIO					
3 / 43					
GENERAL PLAN					
BRIDGE NO. FRA-70-1328S-EB					
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230					
OVER SCIOTO RIVER					
STA. 505+57.14					
STA. 515+1535					
FRANKLIN COUNTY					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
A.S.B.	R.J.B.	J.N.L.	A.J.M.	NEN 9-870	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		188

FRANKLIN COUNTY
FRA-70-12.31S

GENERAL NOTES

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS AS-1-67 REVISED 6-12-69, RB-1-55 REVISED 2-2-59, SD-1-69 SHEETS 1 THRU 4 DATED 6-12-69, AND TO SUPPLEMENTAL SPECIFICATIONS 808, DATED 1-1-71, 836 DATED 4-1-71, 837 DATED 12-31-70, AND 944 DATED 4-5-72.

DESIGN SPECIFICATION: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS, 1969, INCLUDING THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:

DESIGN LOADING - HS20-44 AND THE INTERSTATE ALTERNATE LOADING.
CONCRETE, CLASS "C" - UNIT STRESS 1200 P.S.I. FOR SUPERSTRUCTURE.
UNIT STRESS 1333 P.S.I. FOR SUBSTRUCTURE.
STRUCTURAL STEEL - A.S.T.M. A36-UNIT STRESS 20,000 P.S.I.
REINFORCING STEEL - A.S.T.M. A615, A616 OR A617 UNIT STRESS 20,000 P.S.I. IF BARS IN ACCORDANCE WITH ASTM A616 ARE PROVIDED THEY SHALL BE SUBJECT TO BEND TESTS AS PER AASHTO DESIGNATION M42-70.

REMOVAL OF EXISTING STRUCTURE: WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC, PORTIONS OF THE EXISTING STRUCTURE SHALL BE REMOVED AND/OR MODIFIED AS PER PLAN SHEETS.

PILES SHALL BE DRIVEN TO FIRM CONTACT DEPTH TO BEDROCK. IF THE LENGTH OF PENETRATION IS APPROXIMATELY EQUAL TO THE DEPTH TO BEDROCK, ACCORDING TO THE BRIDGE FOUNDATION INVESTIGATION REPORT, THE FIRM CONTACT SHALL BE CONSIDERED AS ATTAINED WHEN THE CAPACITY ACCORDING TO THE FORMULA IN 507.05 IS NOT LESS THAN THE FOLLOWING VALUE FOR A PILE HAMMER OF THE INDICATED ENERGY RATING.

FOR THE ABUTMENT PILES:

53 TONS PER PILE USING 15,000 FT. LBS. HAMMER.

FOR THE PIER PILES:

60 TONS PER PILE USING 11,000 FT. LBS. HAMMER.

IF THE ENERGY RATING OF THE HAMMER IS BETWEEN THE RATINGS AS SHOWN ABOVE, THE REQUIRED FORMULA CAPACITY SHALL BE DETERMINED BY INTERPOLATION. THE DESIGN LOAD IS 40 TONS PER PILE FOR THE ABUTMENT AND THE PIER PILES.

EMBANKMENT CONSTRUCTION BEFORE THE BACKWALL IS CONSTRUCTED THE EMBANKMENT SHALL BE CONSTRUCTED UP TO THE LEVEL OF THE SUBGRADE WITH A 1:1 SLOPE FROM THE BRIDGE SEAT TO THE SUBGRADE FOR A MINIMUM DISTANCE OF 200 FEET BACK OF THE ABUTMENT.

ITEM SPECIAL - BRIDGE DECK WATERPROOFING - (See Proposal)

A. DESCRIPTION. THIS WORK SHALL CONSIST OF THE PREPARATION AND WATERPROOFING OF ALL SURFACES OF CONCRETE, STEEL OR OTHER MATERIALS WHICH ARE TO BE IN CONTACT WITH THE SURFACE COURSE, BY CLEANING THE SURFACE AND APPLYING TWO COATS OF SEALING COMPOUND IN ACCORDANCE WITH THIS SPECIFICATION.

B. MATERIALS. THE MATERIALS SHALL BE:

1. SEALING COMPOUND - FIRESTONE TIRE AND RUBBER COMPANY NO. 526, OR AS SPECIFIED IN SECTION E BELOW.
2. SOLVENT - FIRESTONE TIRE AND RUBBER COMPANY NO. 607, OR APPROVED AS SPECIFIED IN SECTION E BELOW.

C. PREPARATION OF EXISTING SURFACE. PRIOR TO PLACING THE SEALING COMPOUND, THE BRIDGE DECK SURFACE SHALL BE CLEARED OF FOREIGN MATERIAL AND LOOSE CONCRETE AND ETCHED BY APPLYING ACID OR BY SAND BLASTING.

WHERE ACID IS USED, THE APPLICATION SHALL BE PRECEDED BY FURTHER CLEANING USING WATER AND A DETERGENT DESIGNED FOR REMOVING OIL DEPOSITS FROM CONCRETE SURFACES TOGETHER WITH POWER OR PUSH BROOM SCRUBBING. THE RESIDUE AND DETERGENT SHALL BE THOROUGHLY FLUSHED FROM THE SURFACE. WHILE THE SURFACE IS WET, COMMERCIAL HYDROCHLORIC ACID SHALL BE APPLIED UNIFORMLY AT THE RATE OF ONE GALLON PER 100 SQUARE FEET. IMMEDIATELY AFTER THE ACID STOPS FOAMING, THE RESIDUE SHALL BE REMOVED BY THOROUGH BROOMING AND FLUSHING WITH WATER.

WHERE SAND BLASTING IS USED, THE DECK SURFACE SHALL BE TREATED UNIFORMLY IN SUCH A MANNER THAT THE SURFACE GLAZE AND LAITANCE IS REMOVED.

UTILITY LINES: ALL EXPENSE INVOLVED IN RELOCATING AND/OR INSTALLING THE EFFECTED UTILITIES SHALL BE BORNE BY OWNERS. THE CONTRACTOR AND OWNERS. THE CONTRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WOULD BE HELD TO A MINIMUM.

FOOTINGS: MINIMUM COVER FOR ALL REINFORCING STEEL IN ALL FOOTINGS SHALL BE 3" PAINT FOR EXISTING STRUCTURE SHALL CONFORM TO 708.

D. APPLICATION OF SEALING COMPOUND. THE BRIDGE DECK SURFACES SHALL BE DRY AND FREE OF DUST AT THE TIME OF APPLICATION OF THE SEALING COMPOUND AND, THE AIR TEMPERATURE SHALL NOT BE LESS THAN 50 DEGREES FAHRENHEIT. THE SEALING COMPOUND SHALL NOT BE HEATED AND PRECAUTIONS SHALL BE TAKEN TO AVOID FIRE HAZARDS. THE SEALING COMPOUND SHALL BE APPLIED IN TWO COATS AS FOLLOWS:

a. FIRST COAT. FOR THE FIRST COAT, THE SEALING COMPOUND SHALL BE MIXED WITH EQUAL PARTS OF SOLVENT. THIS MIXTURE SHALL BE APPLIED TO THE PREPARED SURFACES AND SPREAD, USING SUITABLE BRUSHES, AT THE RATE OF 0.10 GALLON PER SQUARE YARD. THIS COAT SHALL BE PERMITTED TO CURE FOR A PERIOD OF TWO HOURS OR UNTIL THERE IS NO TENDENCY TO ADHERE TO WORKMEN'S SHOES BEFORE THE APPLICATION OF THE SECOND COAT.

b. SECOND COAT. FOR THE SECOND COAT THE SEALING COMPOUND SHALL BE APPLIED UNDILUTED AND SPREAD, USING SUITABLE BRUSHES, AT THE RATE OF 0.15 GALLON PER SQUARE YARD. NO FURTHER WORK OR TRAFFIC SHALL BE PERMITTED ON THE SURFACE UNTIL THE SECOND COAT HAS CURED OVERNIGHT.

E. ALTERNATE MATERIALS IN LIEU OF THE ABOVE, UNITED STATES STEEL NEXUS SYSTEM OR TRIOKOL CHEMICAL CORP 4II-M OR 4II-H MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

F. METHOD OF MEASUREMENT THE QUANTITY OF WATERPROOFING SHALL BE THE NUMBER OF SQUARE YARDS OF SURFACE COVERED.

G. BASIS OF PAYMENT. PAYMENT FOR THE ACCEPTED QUANTITY WILL BE MADE AT THE CONTRACT PRICE FOR:

ITEM SPECIAL	UNIT SQUARE YARD	DESCRIPTION WATERPROOFING BRIDGE DECK
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① FOR DETAILED DESCRIPTION OF ITEMS AND LIMITS OF REMOVAL SEE SHEET [5/43].
② THIS ITEM ALSO INCLUDES RESURFACING OF THE EXISTING BRIDGE DECK.

③ THIS ITEM IS MODIFIED IN THAT THE SINGLE PIPE RAIL FROM THE EXISTING SOUTH PARAPET WILL BE REUSED ATOP THE NEW PARAPET. RAILING DAMAGED IN REMOVAL AND/OR ADDITIONAL RAILING REQUIRED SHALL CONFORM TO DETAILS ON SHEET [37/43].

④ NO PAYMENT WILL BE MADE FOR THE REMOVAL OF THE EXISTING CONCRETE SLOPE. THAT PORTION REMOVED SHALL BE CUT ALONG NEAT LINES ON EXTERIOR SIDES OF THE ABUTMENT. REPLACEMENT SHALL CONFORM TO ORIGINAL GRADE.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUTS.	PIERS	GEN.		
① 202	LUMP	SUM	PORTIONS OF EXISTING STRUCTURE REMOVED						
② 403	223	CU.YDS.	ASPHALT CONCRETE (60-70 OR AC-20)	223				LUMP	
② 404	223	CU.YDS.	ASPHALT CONCRETE (60-70 OR AC-20)	223					
503	1771	CU.YDS.	UNCLASSIFIED EXCAVATION		1006	765			
503	LUMP	SUM	COFFERDAMS, CRIBS AND SHEETING					LUMP	
505	LUMP	SUM	TEST PILE					LUMP	
507	7760	LIN.FT.	STEEL PILES HP 12 X 53 *	2850	4910				
509	389,195	LBS.	REINFORCING STEEL	210,235	52561	(126,399)	122,203		
511	694	CU.YDS.	CLASS "C" CONCRETE - SUPERSTRUCTURE	694					
511	430	CU.YDS.	CLASS "C" CONCRETE - PIERS ABOVE FOOTING			430			
511	272	CU.YDS.	CLASS "C" CONCRETE - PIER FOOTINGS			272			
511	443	CU.YDS.	CLASS "C" CONCRETE - ABUTMENTS	443					
512	76	LIN.FT.	PREMOLDED SEALING STRIP	76					
513	784,138	LBS.	STRUCTURAL STEEL	784,138					
514	784,138	LBS.	FIELD PAINTING OF STRUCTURAL STEEL	784,138					
516	19	SQ.FT.	1" PREFORMED EXPANSION JOINT FILLER		19				
③ 517	LUMP	SUM	RAILING (CONCRETE PARAPET WITH SINGLE PIPE RAIL)						
518	60	LIN.FT.	6" STD. PIPE DOWNSPOUT, ALLOY STEEL (707.11) OR HOT-DIP GALV. STEEL	60				LUMP	
518	1124	LIN.FT.	SUBDRAINAGE FOR WEARING SURFACE COURSE, (AS PER PLAN)			1124			
518	138	CU.YDS.	POROS BACKFILL	138					
518	22	LIN.FT.	6" PERFORATED, HELICAL CMP INCL. SPECIAL, 707.01	22					
518	31	LIN.FT.	6" NON-PERFORATED, HELICAL CMP, 707.01	31					
518	51	EACH	SCUPPERS, INCLUDING SUPPORTS	51					
④ 8025	SQ.YDS.		BRIDGE DECK WATERPROOFING INCLUDING SAND-ASPHALT COVER (See Proposal)			8025			
④ 601	LUMP	SUM	6" CONCRETE SLOPE PROTECTION (REPLACEMENT ONLY)		LUMP				
601	111	SQ.YDS.	CRUSHED AGGREGATE SLOPE PROTECTION	111					
625			SEE SHEET 527 FOR LIGHTING SUMMARY						
808	659	UNITS	CHEMICAL ADMIXTURES FOR CONCRETE TYPE A, B, OR D	659					
837	LUMP	SUM	FIELD PAINTING OF EXISTING STRUCTURAL STEEL			LUMP			
SPECIAL	900	SQ.FT.	PATCHING CONCRETE STRUCTURES, TYPE A (See Proposal note)			900			

ITEM	TOTAL	UNIT	DESCRIPTION
SPECIAL	900	SQ.FT.	PATCHING CONCRETE STRUCTURES, TYPE B (SEE PROPOSAL NOTE)

*-- HP 12 X 53 FORMERLY DESIGNATED AS
12 BP 53

GENERAL NOTES & QUANTITIES

BRIDGE NO. FRA-70-1328S-EB
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230
OVER SCIOTO RIVER

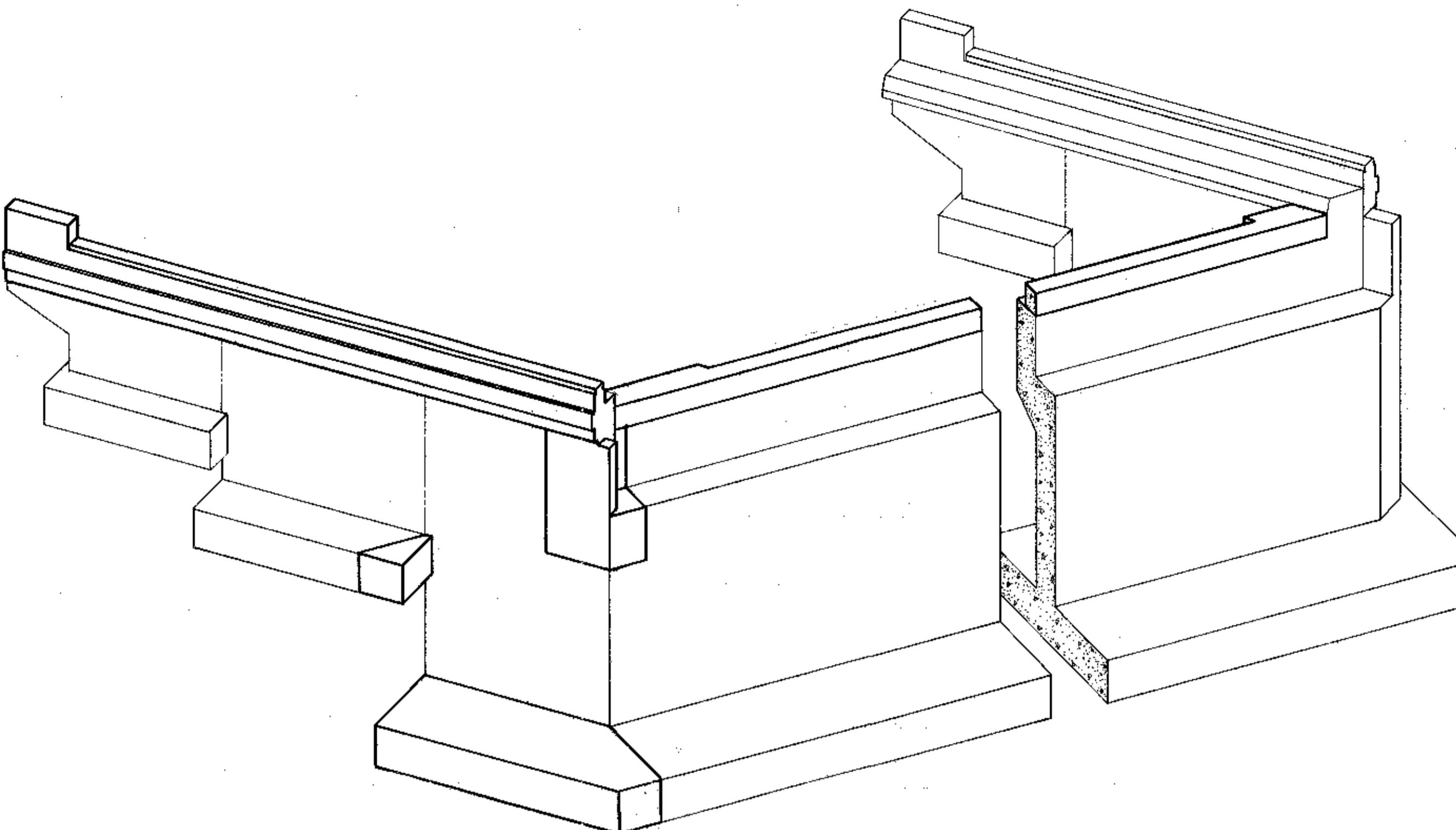
FRANKLIN COUNTY STA. 505+57.14
STA. 515+15.35

DESIGNED DRAWN TRACED CHECKED REVIEWED DATE
A.S.B. R.U.B. J.N.L. A.D.M. NEN. 9-8-70 6/26/73

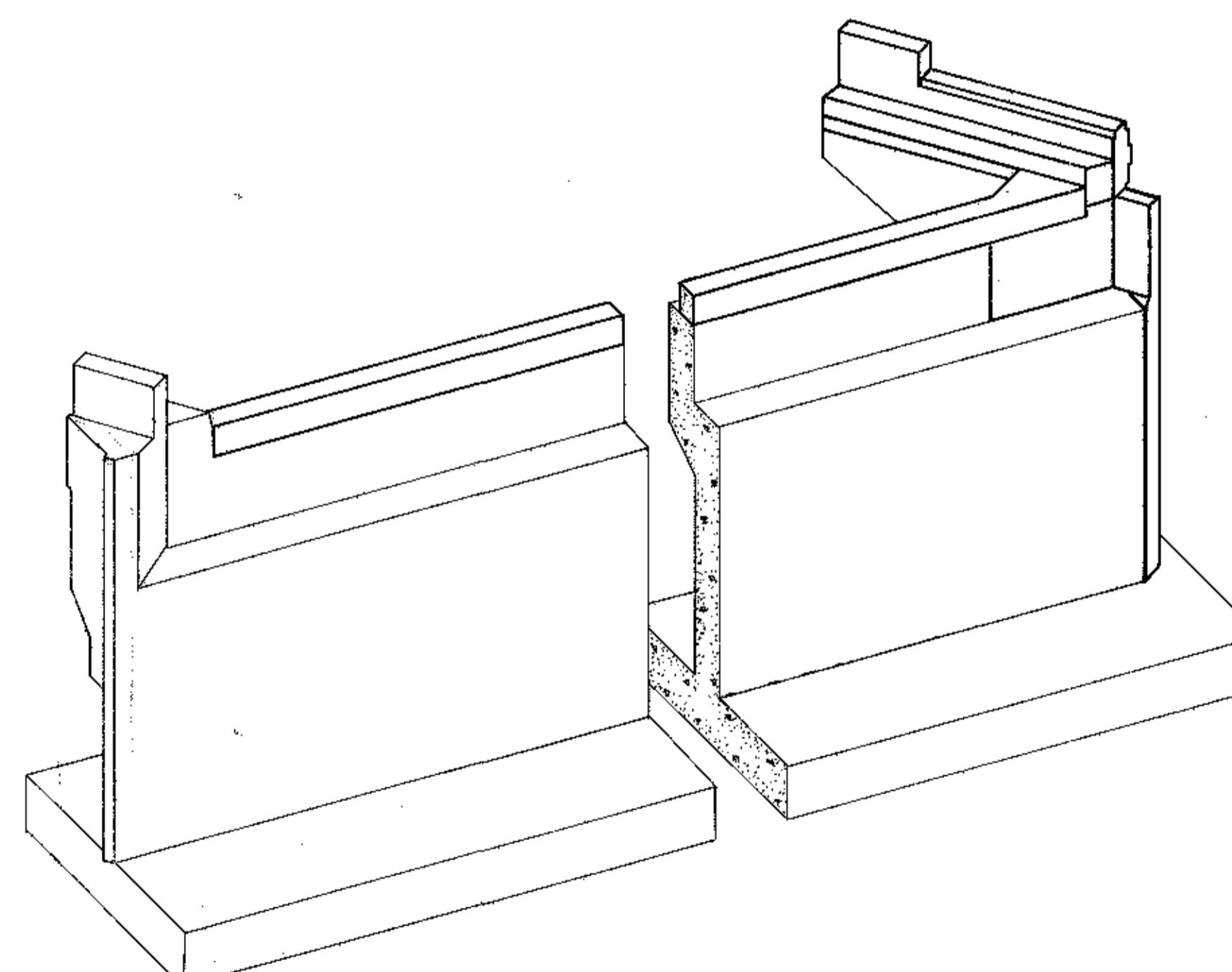
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

789

FRANKLIN COUNTY
FRA-70-12.31S



REAR ABUTMENT



FORWARD ABUTMENT

PORTIONS OF EXISTING STRUCTURE REMOVED

REAR ABUTMENT:

- (a) Aluminum Railing And Posts From South Parapet. Store For Reuse On New Addition.
- (b) South Parapet And Curbing Down To The Level Of The Last Offset (Top Of 2 Ft. Wall).
- (c) Backwall From Face Of North Curb To Face Of South Curb And Down To The Level Of The Approach Slab Seat.
- (d) That Portion Of Backwall, Wingwall And Abutment Stem Shown, Down To A Minimum Of 3.5 Ft Below Bridge Seat (Base Of Haunch.) See Sheet [7/43].
- (e) Main Footing At South End, As Indicated On The Plans.
- (f) The Corner Of South Wingwall Footing, Second Level, As Needed To Allow Safe Construction Of New Footing.

FORWARD ABUTMENT:

- (a) Aluminum Railing And Posts From South Parapet. Store For Reuse On New Addition.
- (b) South Parapet And Curbing Down To The Level Of The Last Offset (Top of 2 Ft. Wall).
- (c) Backwall From Face Of North Curb To Face Of South Curb And Down To The Level Of The Approach Slab Seat.
- (d) Backwall And Curtain Wall Down To The Level Of The Bridge Seat And A Portion Of The Abutment Stem Down To The Level Of The Top Of Footing. See Sheet [10/43].

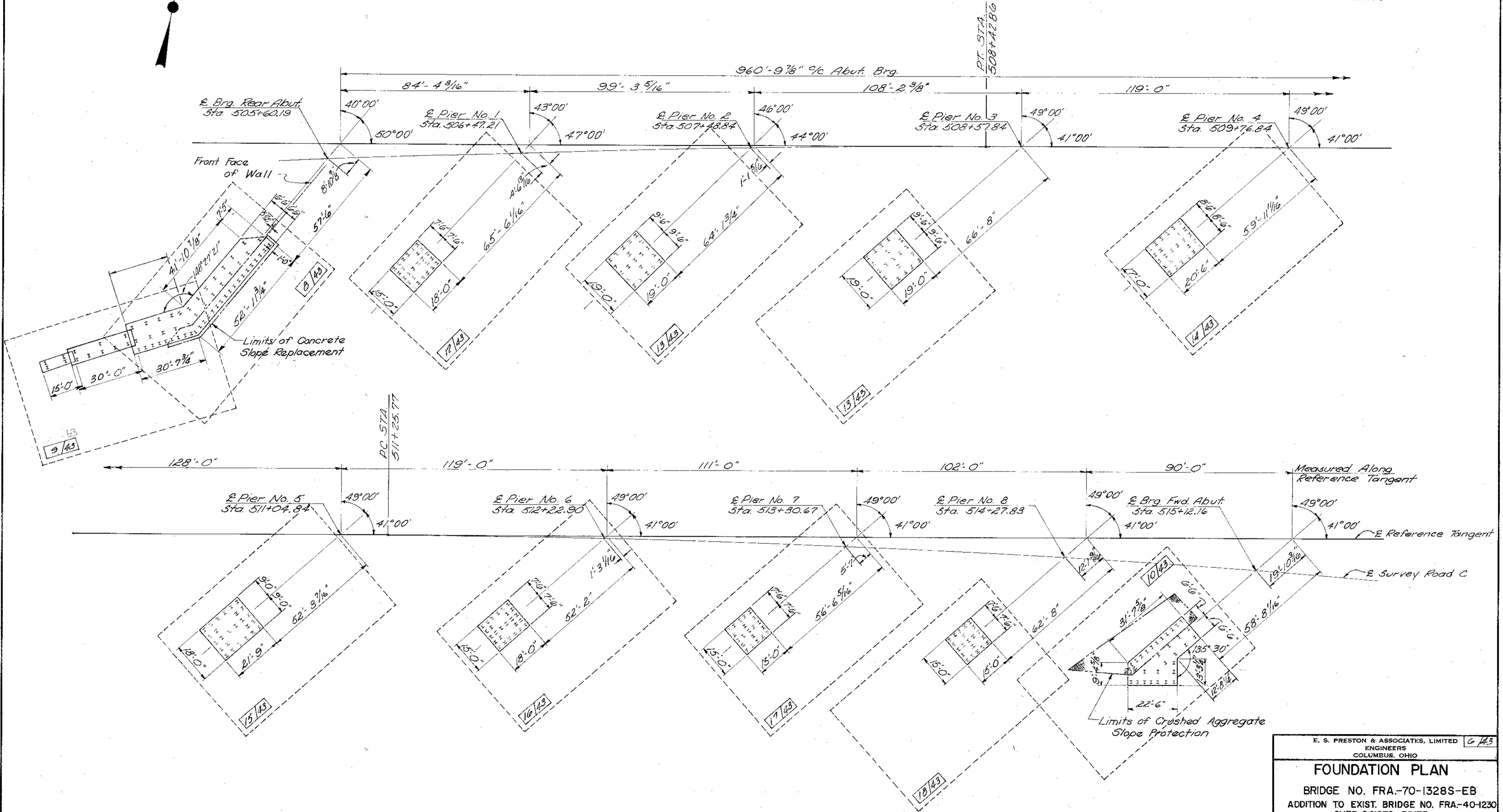
SUPERSTRUCTURE:

- (a) Asphaltic Concrete Surface Down To Top Of Concrete Deck.
- (b) End Dams At Abutments (See Sheet [20/43]). And End Dams At Hinges (See Sheet [7/43]).
- (c) Aluminum Railing And Post From South Parapet. Store For Reuse On New Addition.
- (d) The Slab Shall Be Cut Along A Line 1'6" In From The South Curb (See Sheet [30/43]). Slab Concrete Outside Of The Cut Line Together With The Parapet, Scuppers, Bulb Angle, And Subdrainage Items Are To Be Removed.

E. S. PRESTON ASSOCIATES, INC. ENGINEERS COLUMBUS, OHIO		5/43
MISCELLANEOUS DETAILS		
BRIDGE NO. FRA-70-1328S-E.B.		
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230 OVER SCIOTO RIVER		
STA. 505+57.14	STA. 515+15.35	
FRANKLIN COUNTY		
Designed ASB	Drawn AJM	Traced MLS
Checked ES	Reviewed Date 8-31-71	Revised

ED. RD. VISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
RA.-70-12.31S



E. S. PRESTON & ASSOCIATES, LIMITED
ENGINEERS
COLUMBUS, OHIO

FOUNDATION PLAN

BRIDGE NO. FRA-70-1328S-EB
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230
OVER SCIOTO RIVER

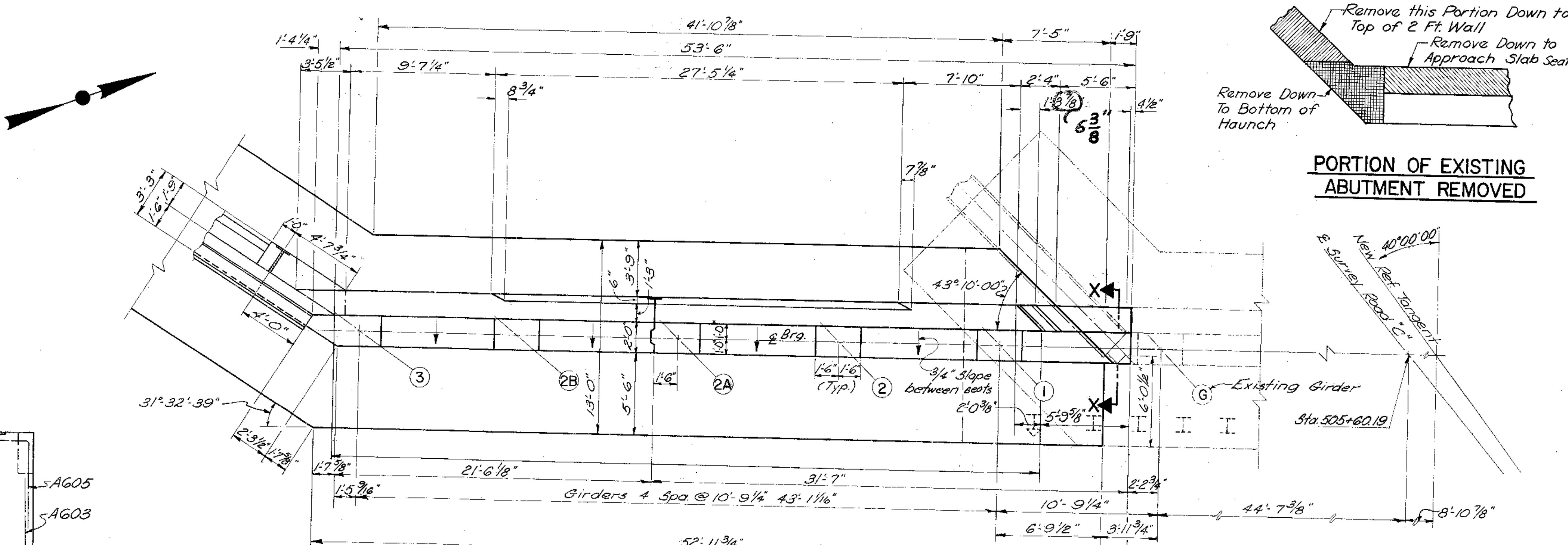
FRANKLIN COUNTY STA. 515 + 1535

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
A.S.B.	R.J.B.	J.N.L.	A.U.M.	NEN 9-8-70	

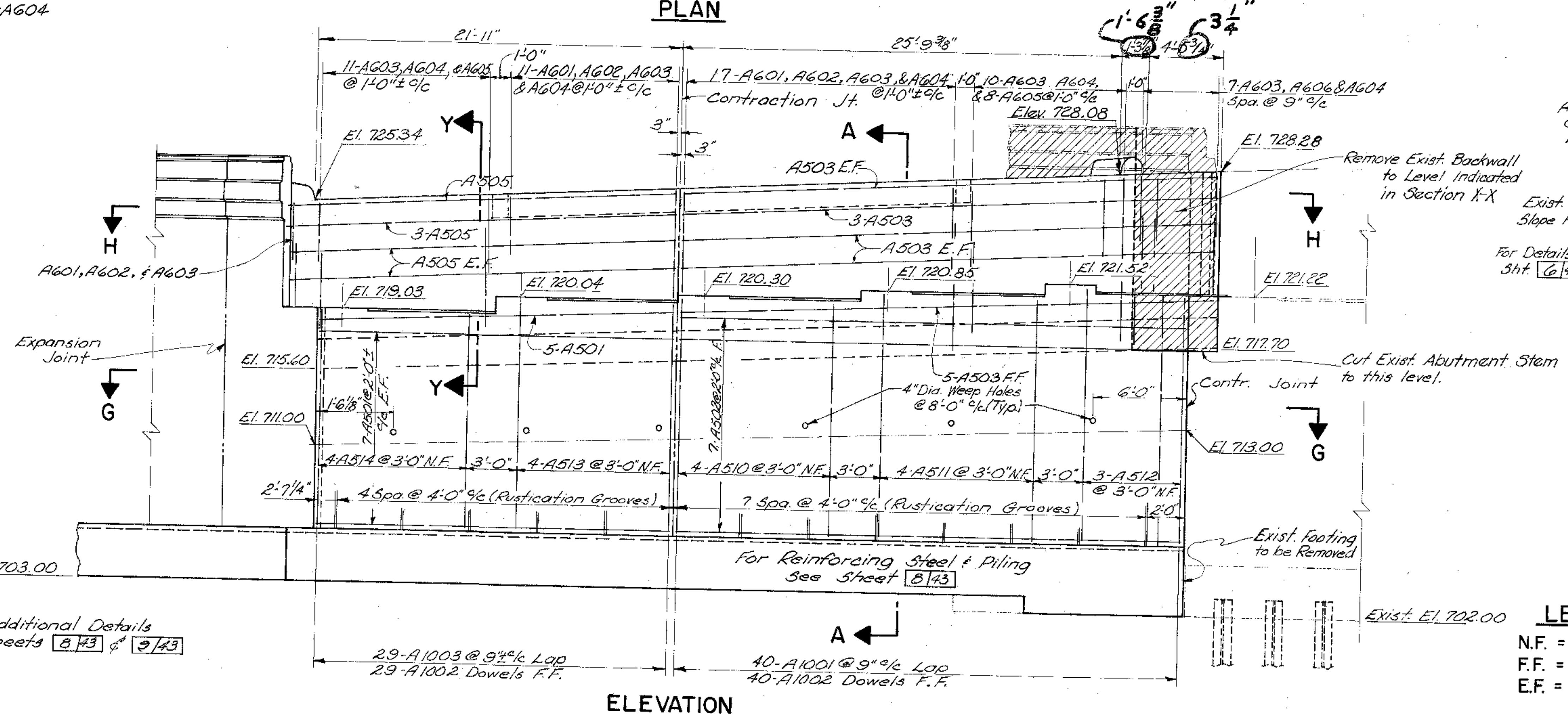
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ED. RD. VISION	STATE	PROJECT	
2	OHIO		

RANKLIN COUNTY
RA-70-12.31S



SECTION Y-Y

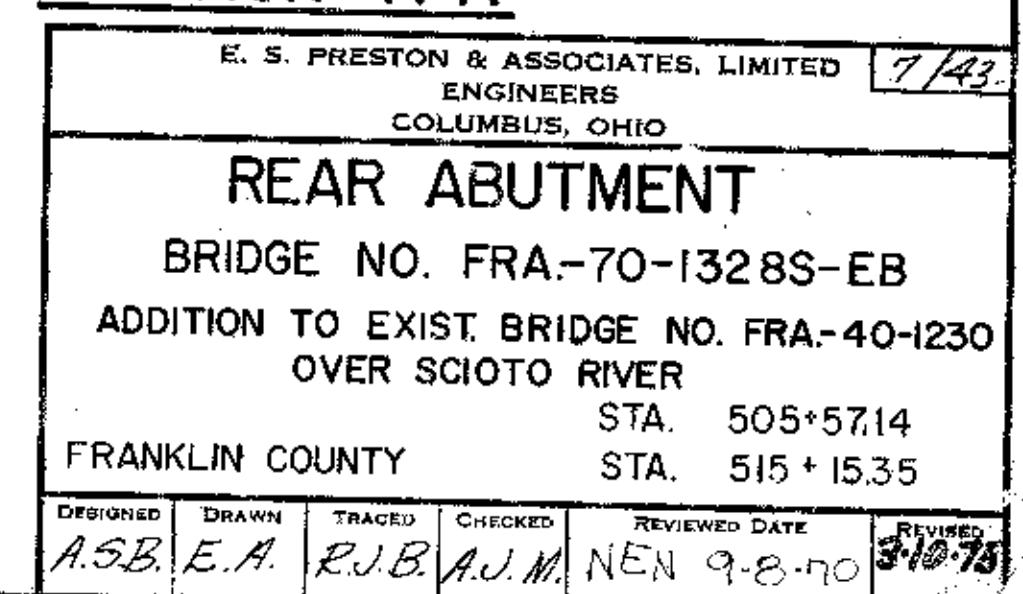


ELEVATION

NOTE: For Additional Details
See Sheets 8/43 & 9/43

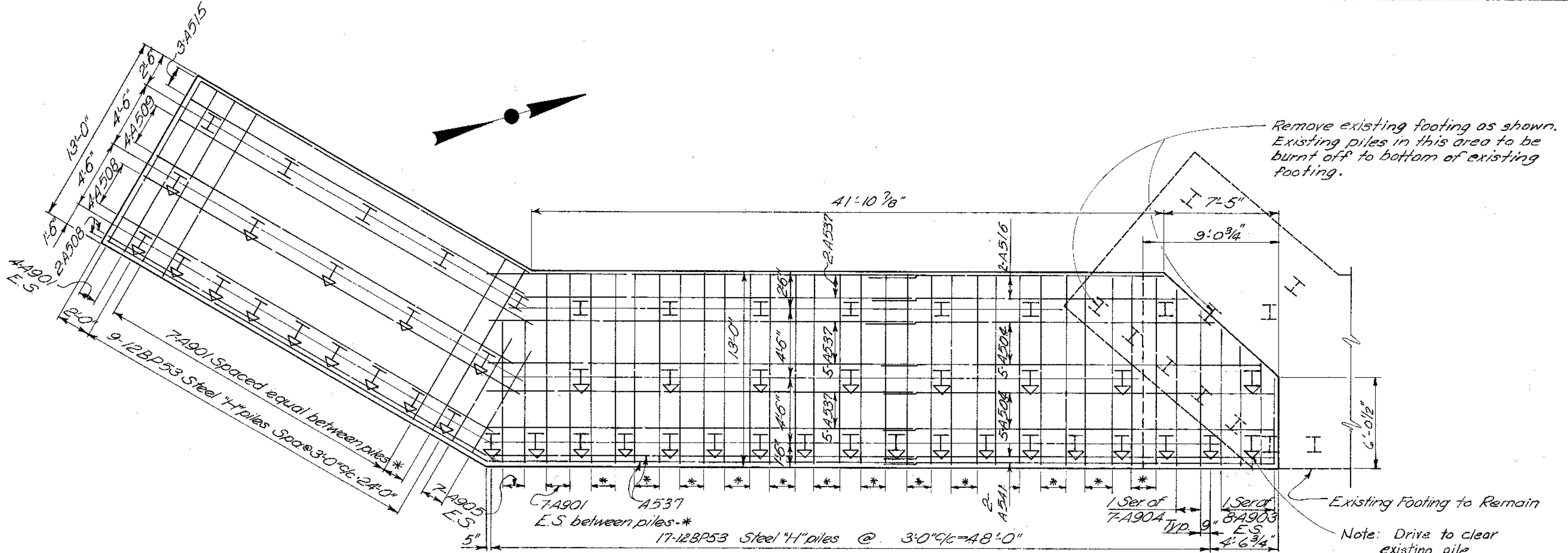
LEGEND

REAR ABUTMENT
BRIDGE NO. FRA-70-1328S-EB
ADDITION TO EXIST BRIDGE NO. FRA-40-1230
OVER SCIOTO RIVER
STATION 505+57.14
STATION 515 + 15.35

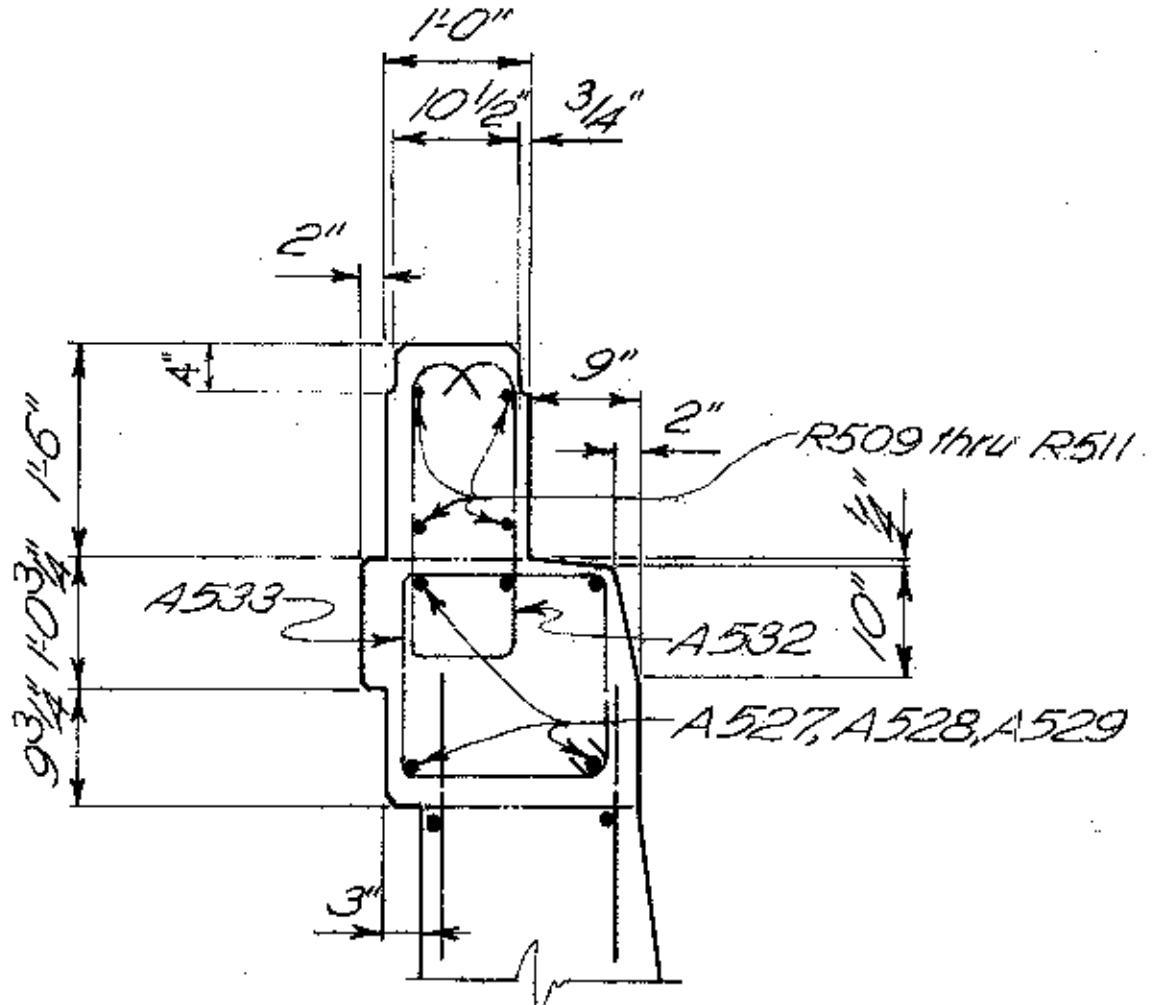


FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

**FRANKLIN COUNTY
FRA-70-12.31S**

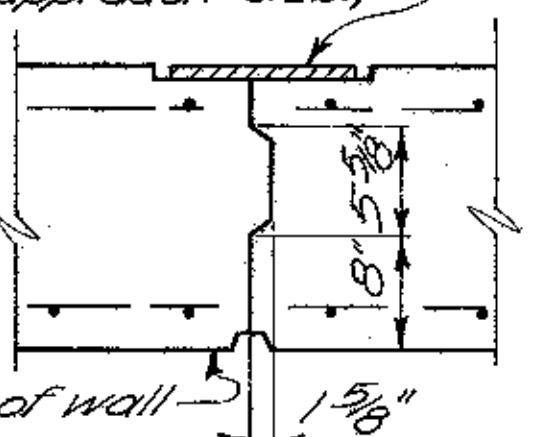


FOOTING REINFORCING STEEL- BOTTOM

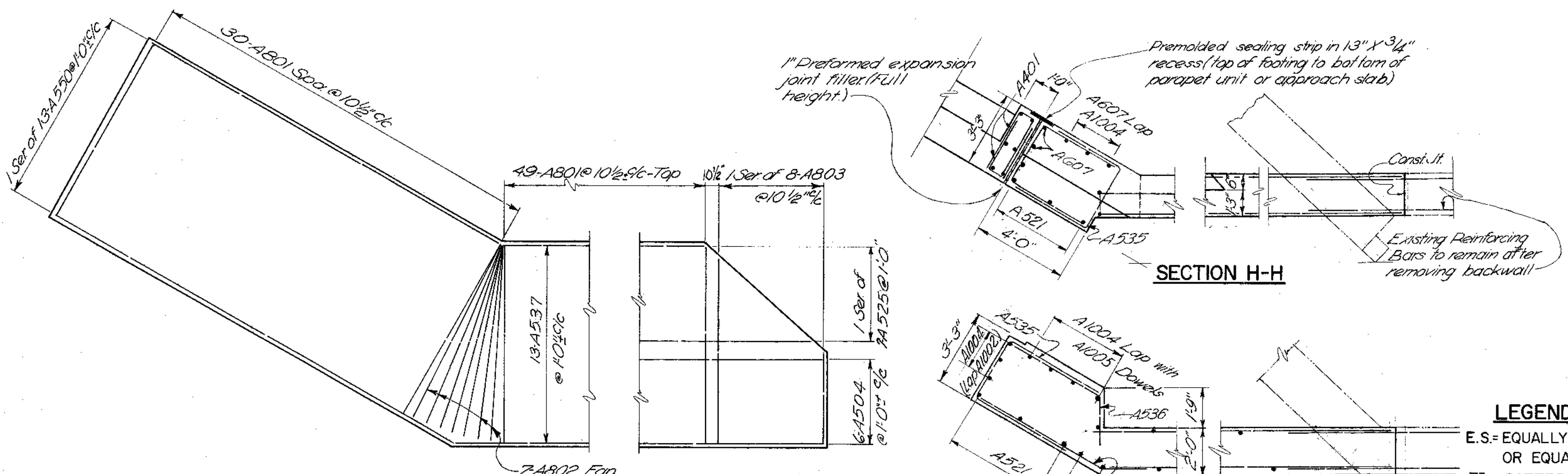


DETAIL "A"

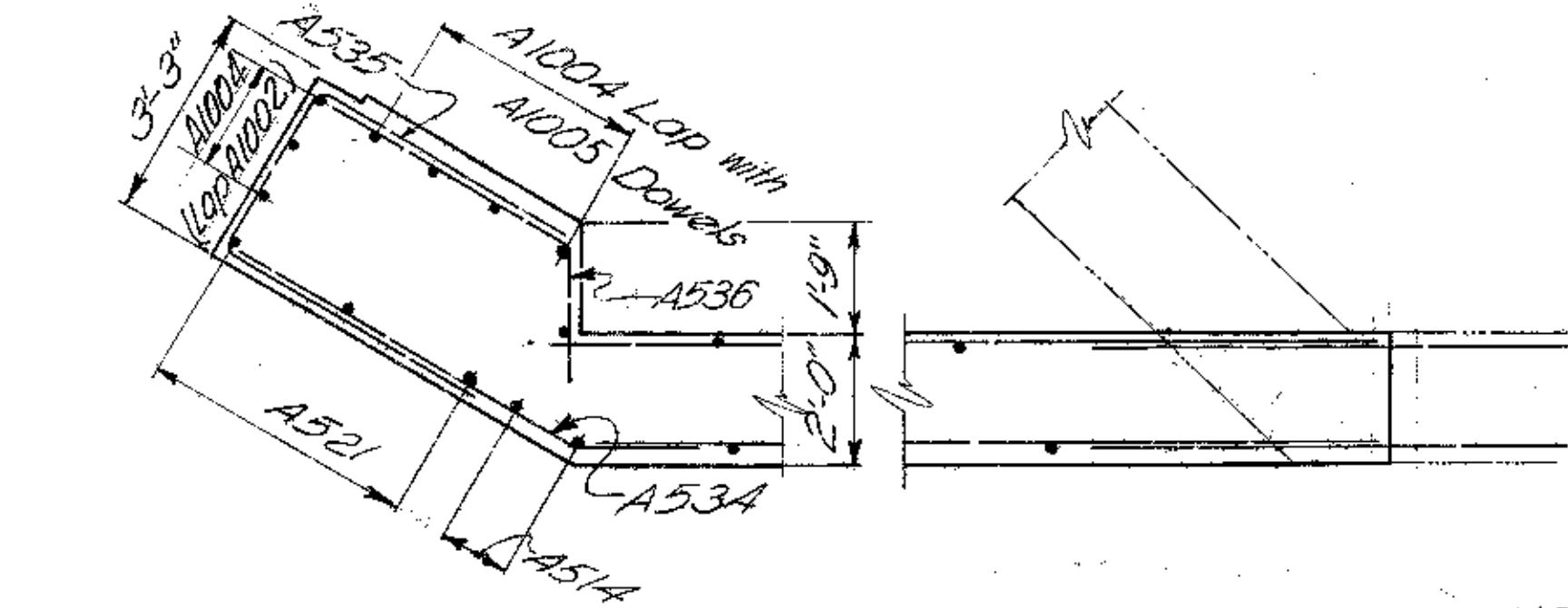
Premolded sealing strip in 13" x 3 1/4" recess (top of footing to bottom of parapet unit or approach slab.)



CONTRACTION JOINT DETAIL



SECTION H-I



FOOTING REINFORCING STEEL - TO

SECTION G-G

LEGEND

E.S.=EQUALLY SPACED,
OR EQUAL SPACING
 =BATTER PILES 1:4
(and direction of batter)

NOTE: For Additional Details
See Sheets 7-43 & 9-43

**E. S. PRESTON & ASSOCIATES, LIMITED
ENGINEERS
COLUMBUS, OHIO**

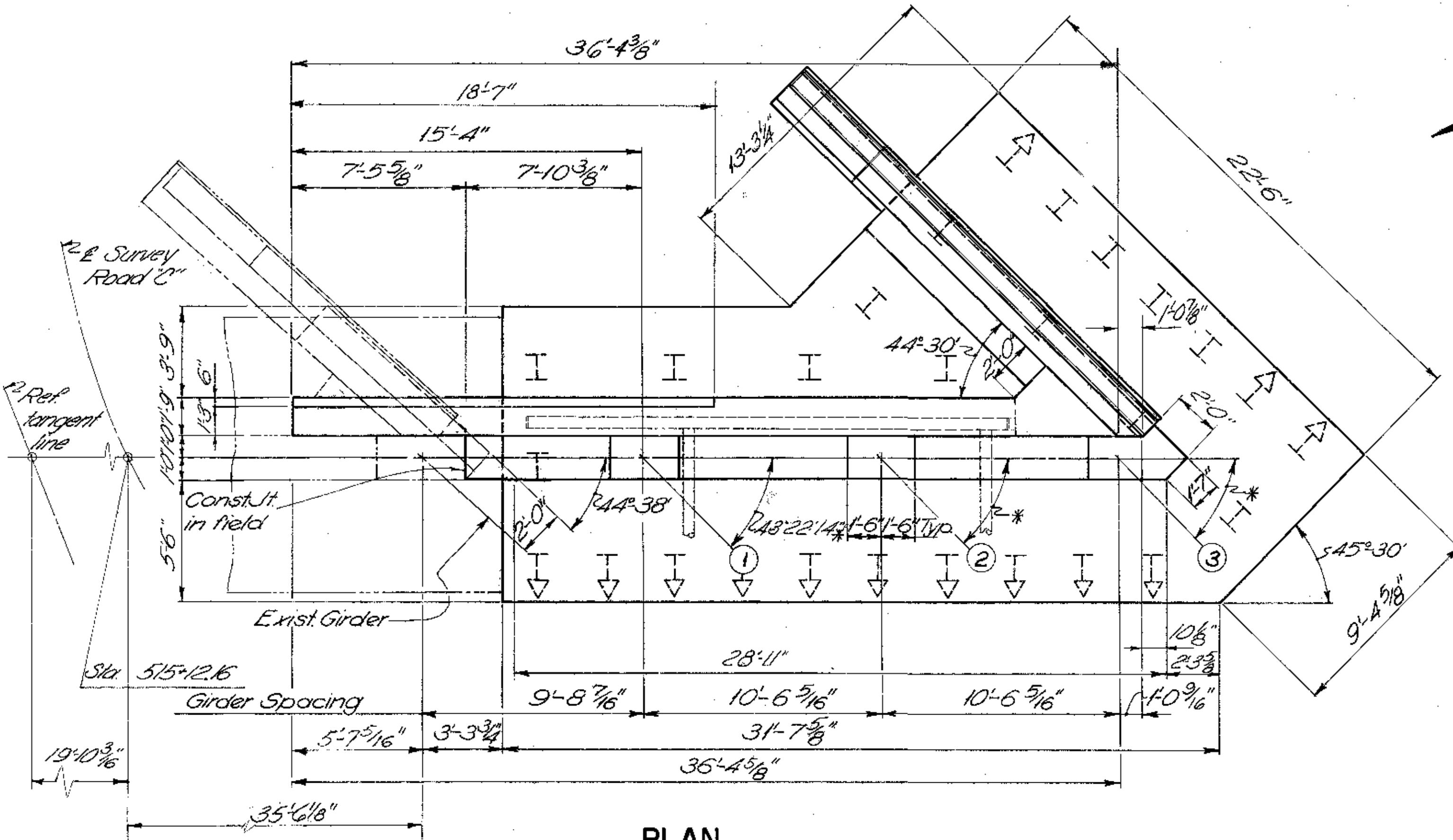
BRIDGE NO. FRA-70-1328S- EB
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230
OVER SCIOTO RIVER

STA. 505+57.14
STA. 515+15.35

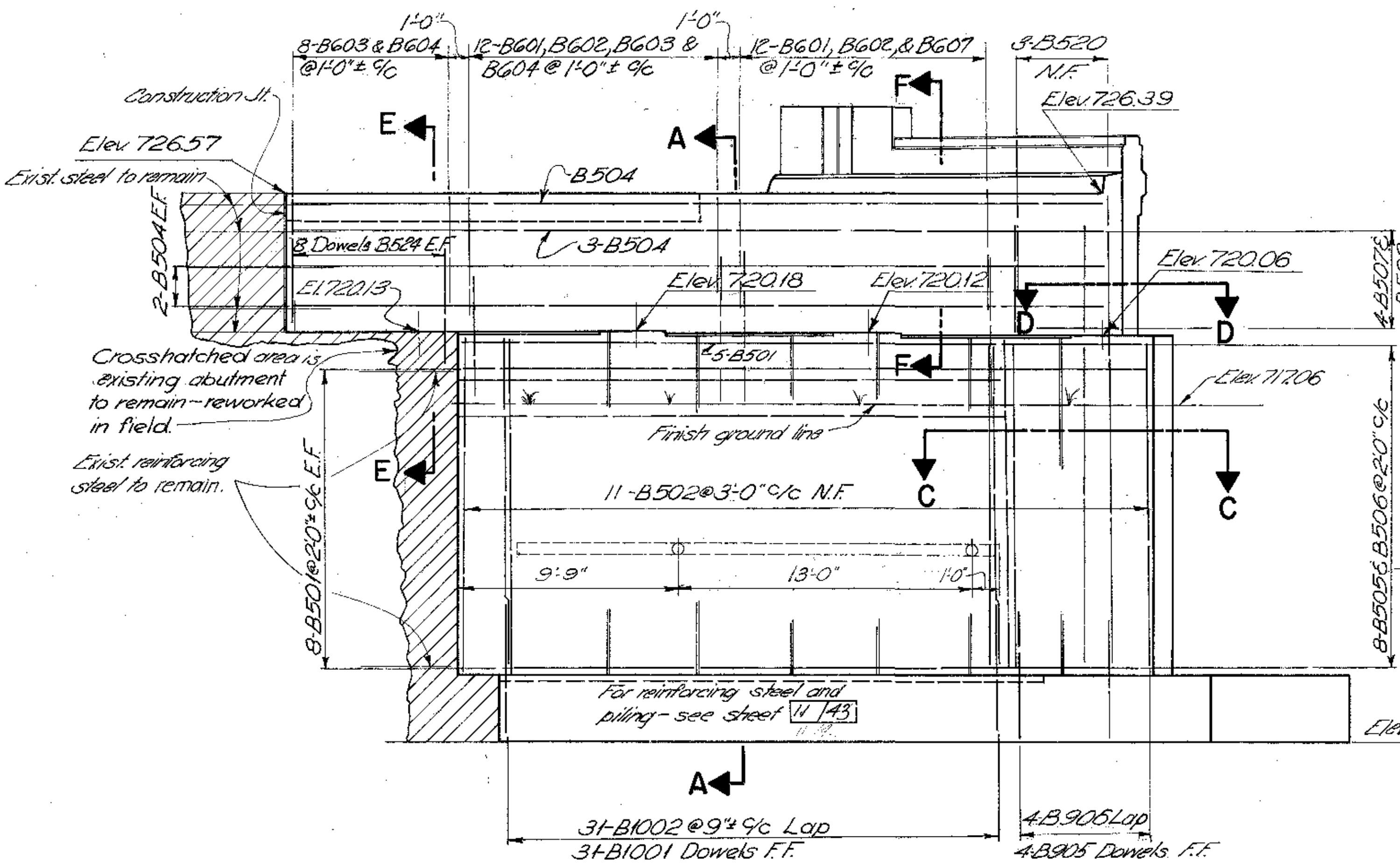
STRA. 313-1830

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	794

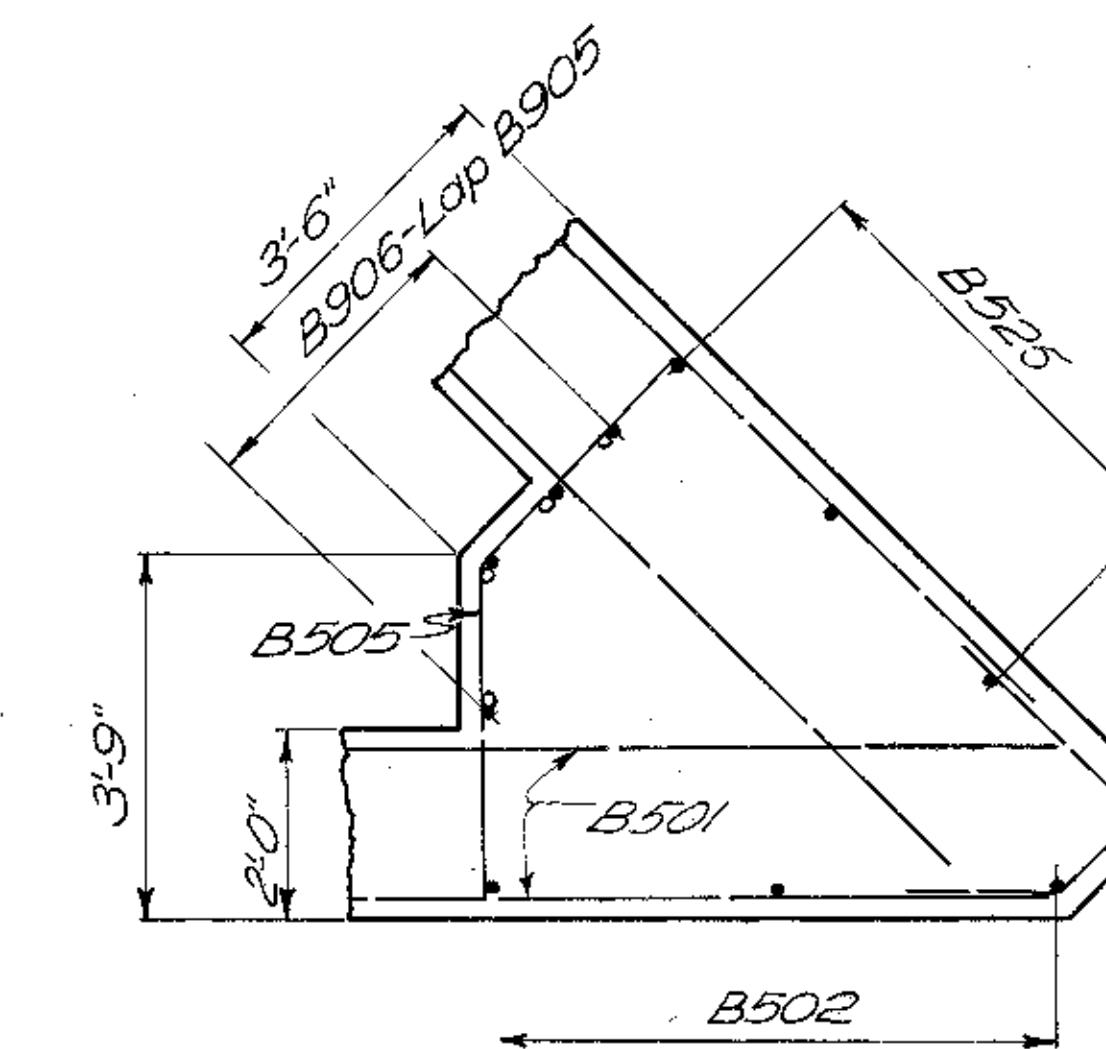
FRANKLIN COUNTY
FRA-70-12.31S



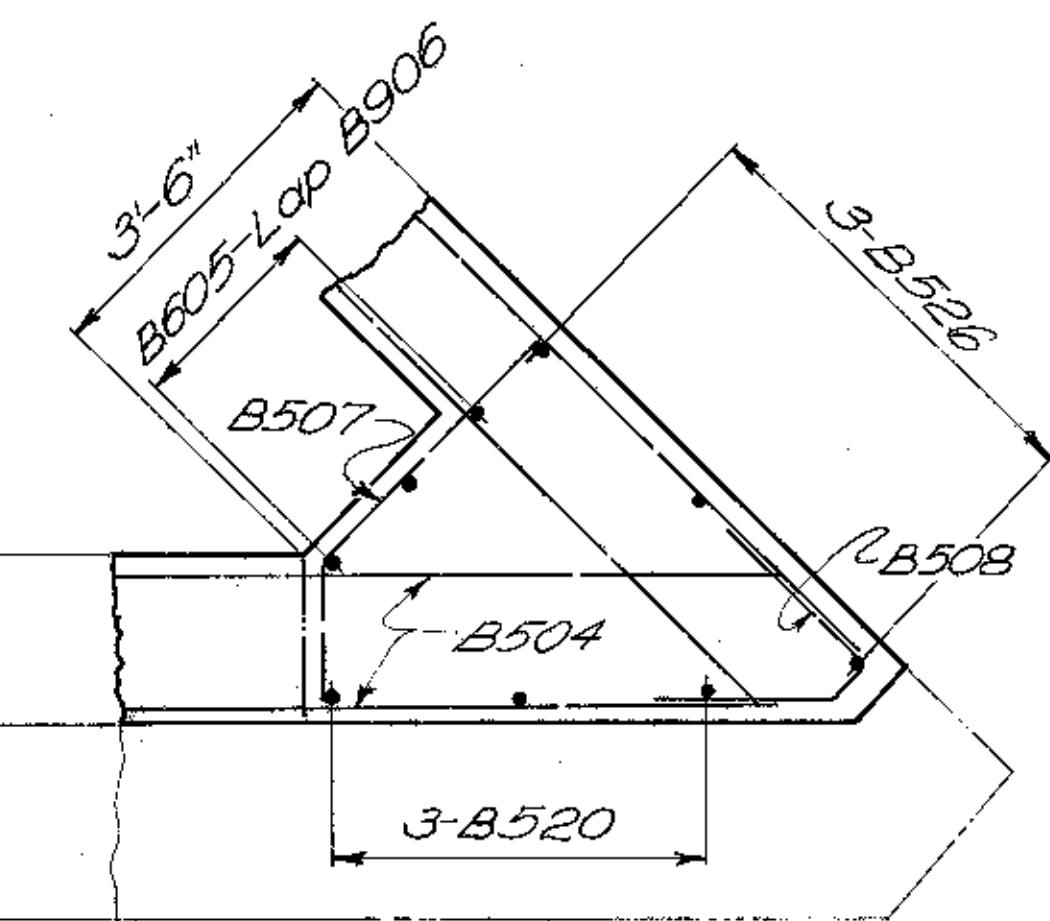
PLAN



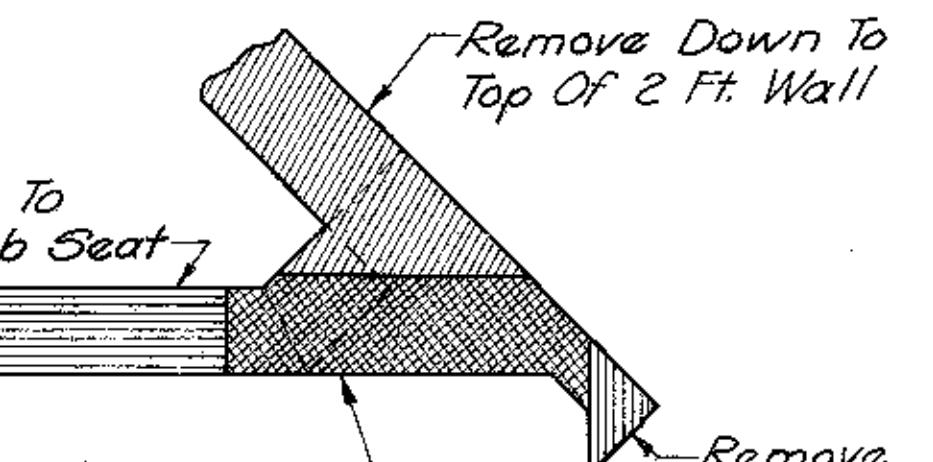
ELEVATION



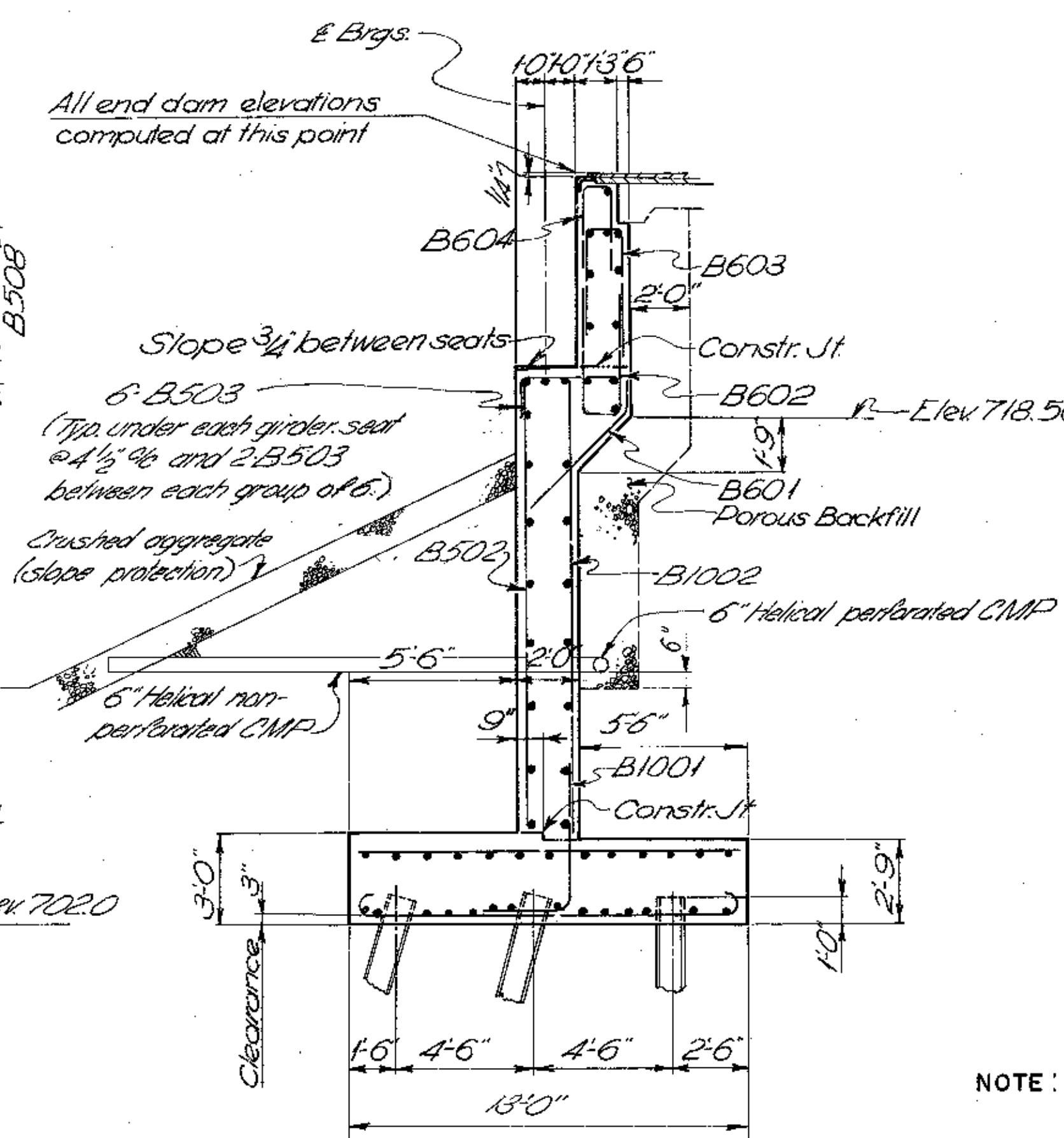
SECTION C-C



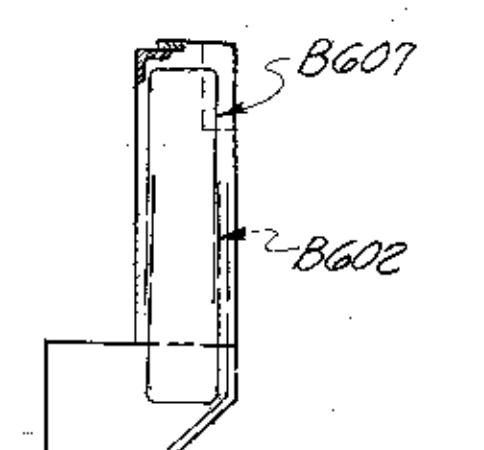
SECTION D-D



PORTION OF EXISTING ABUTMENT REMOVED



SECTION E-E



SECTION F-F

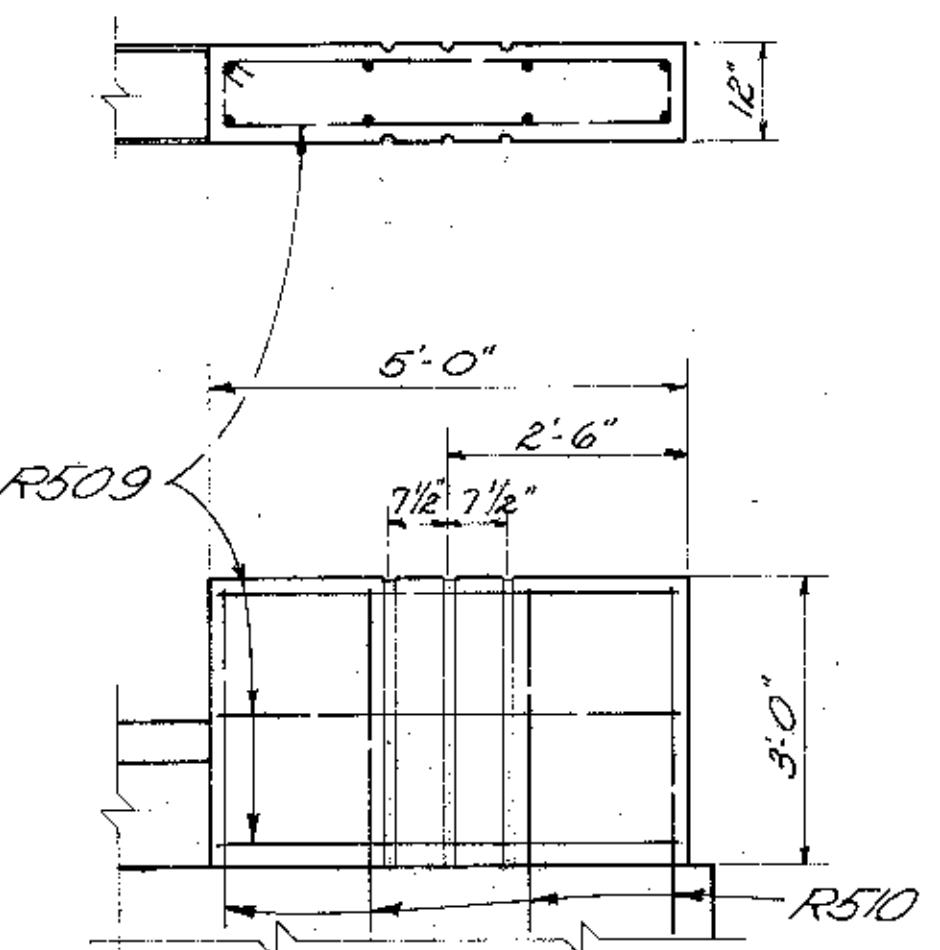
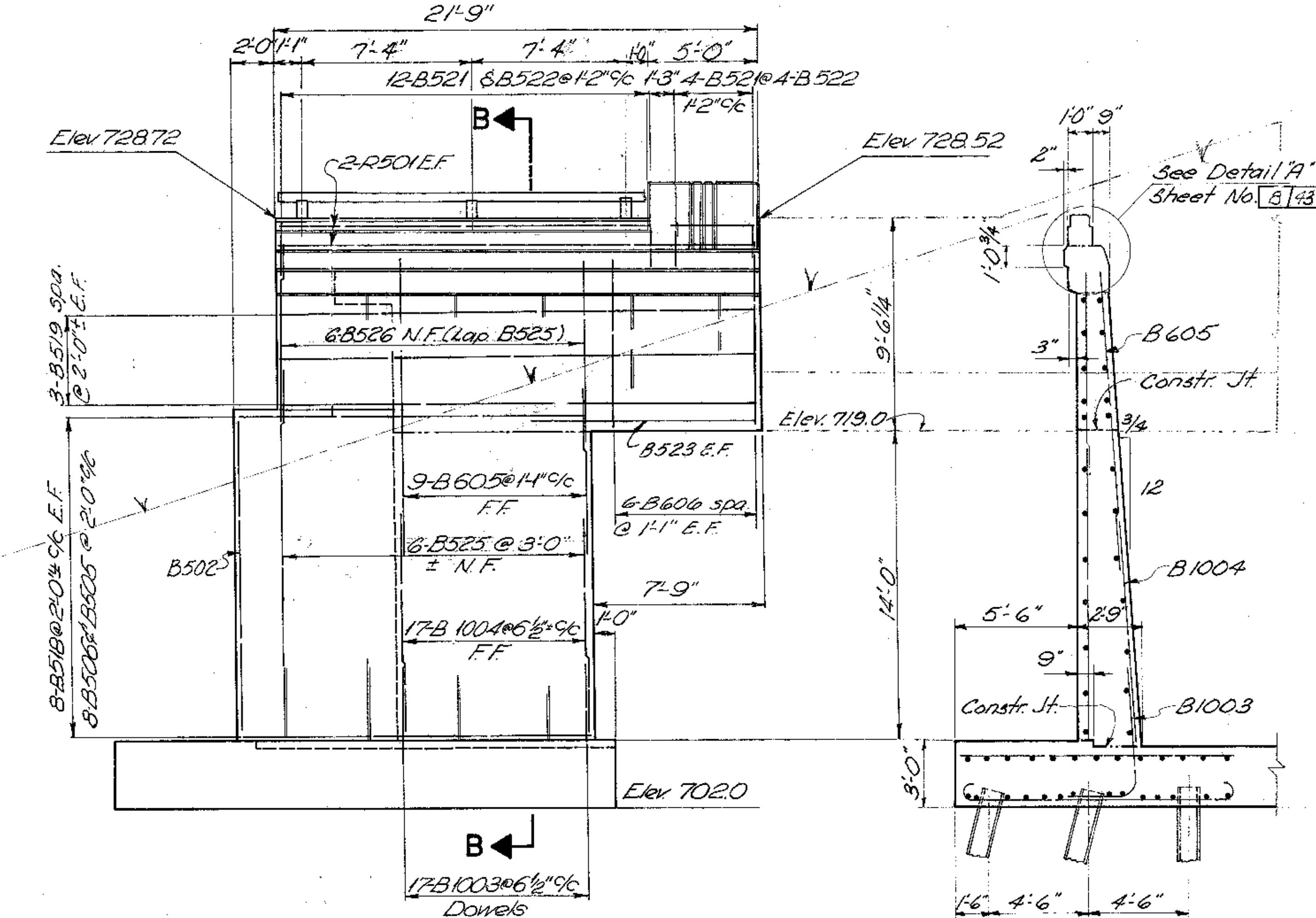
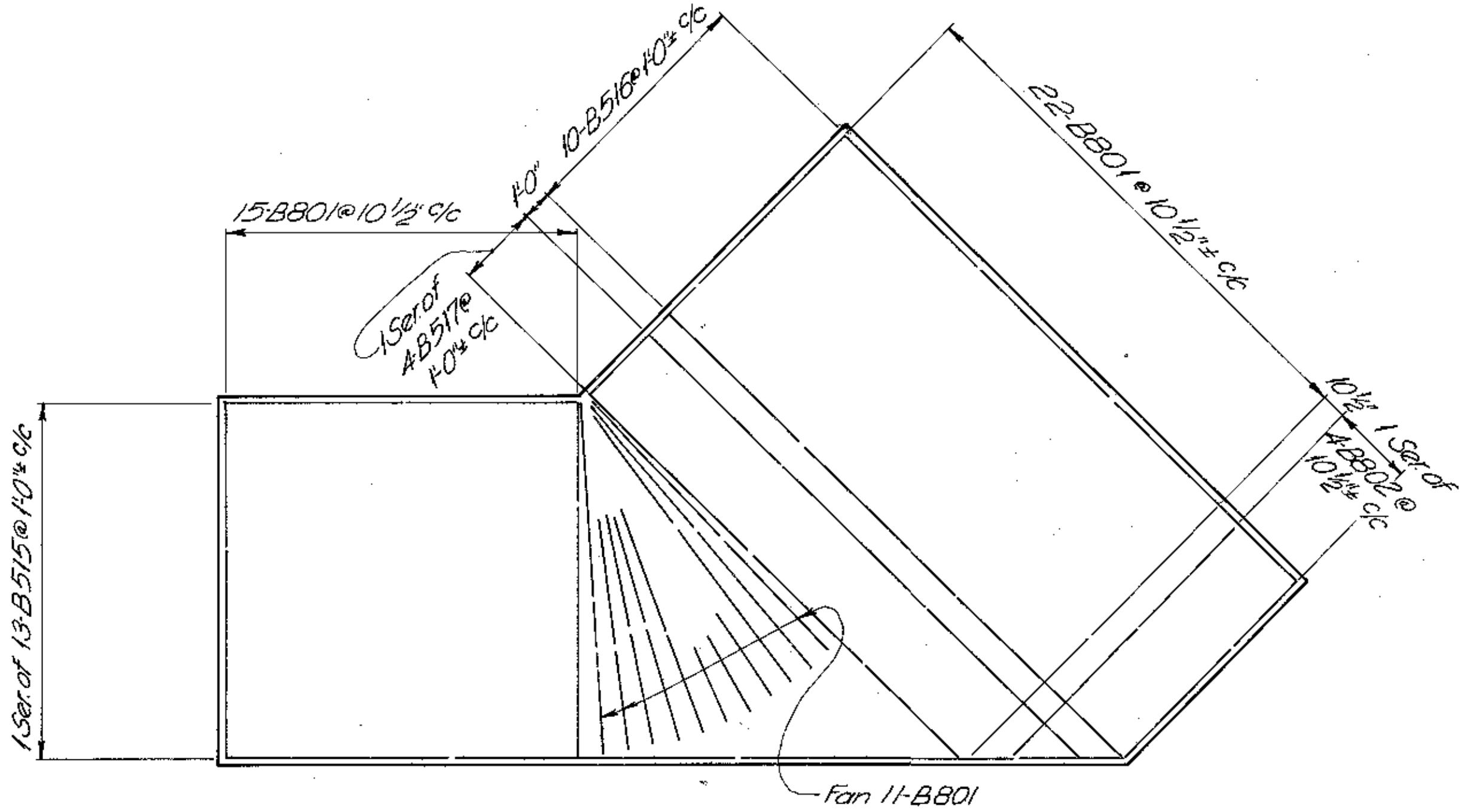
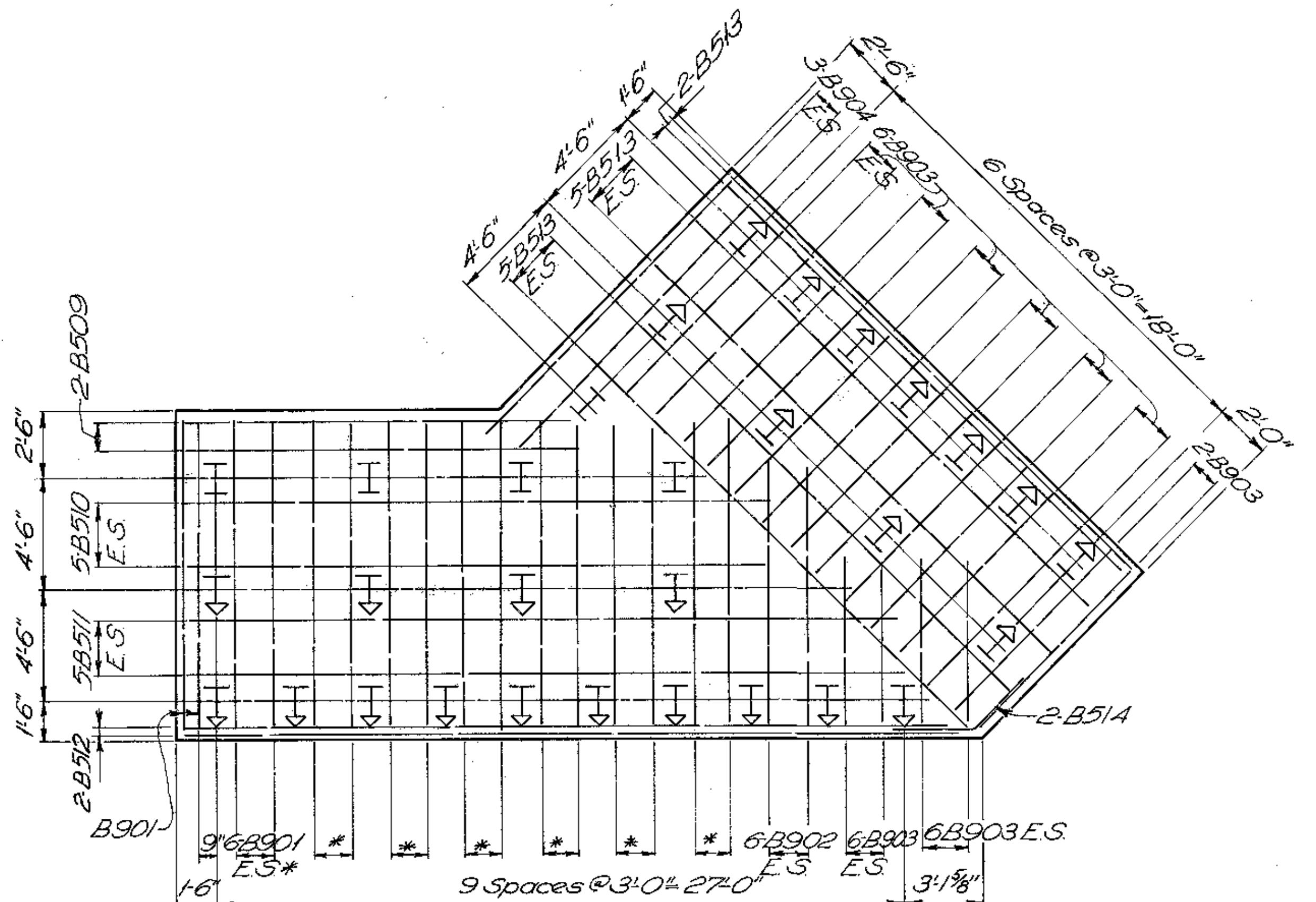
NOTE: FOR ADDITIONAL DETAILS
SEE SHEET 11/43

SECTION A-A

E. S. PRESTON & ASSOCIATES, LIMITED ENGINEERS COLUMBUS, OHIO			
FORWARD ABUTMENT BRIDGE NO. FRA-70-1328S-E.B.			
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230 OVER SCIOTO RIVER			
STA. 505+57.14 STA. 515+15.35			
DESIGNED A.S.B.	DRAWN R.E.L.	TRACED J.N.L.	CHECKED A.M.J.
REVIEWED DATE NEN 9-8-03			

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		795

FRANKLIN COUNTY
FRA-70-12.31S



LEGEND

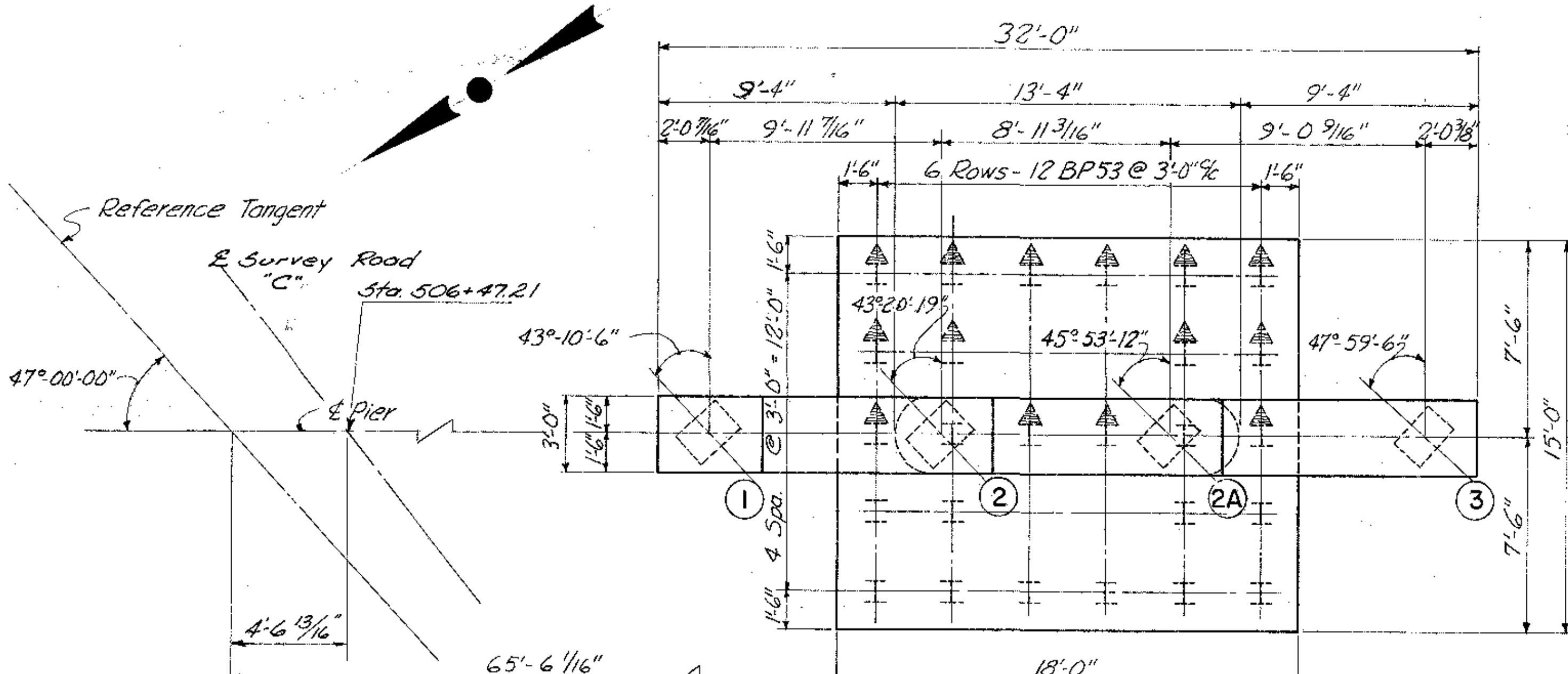
- E.F. = EACH FACE
- N.F. = NEAR FACE
- F.F. = FAR FACE
- E.S. = EQUAL SPACED, OR EQUAL SPACES
- ↑ = BATTER PILES 1:4 (and direction of batter)

NOTE:
For additional Details see sheet 10-153

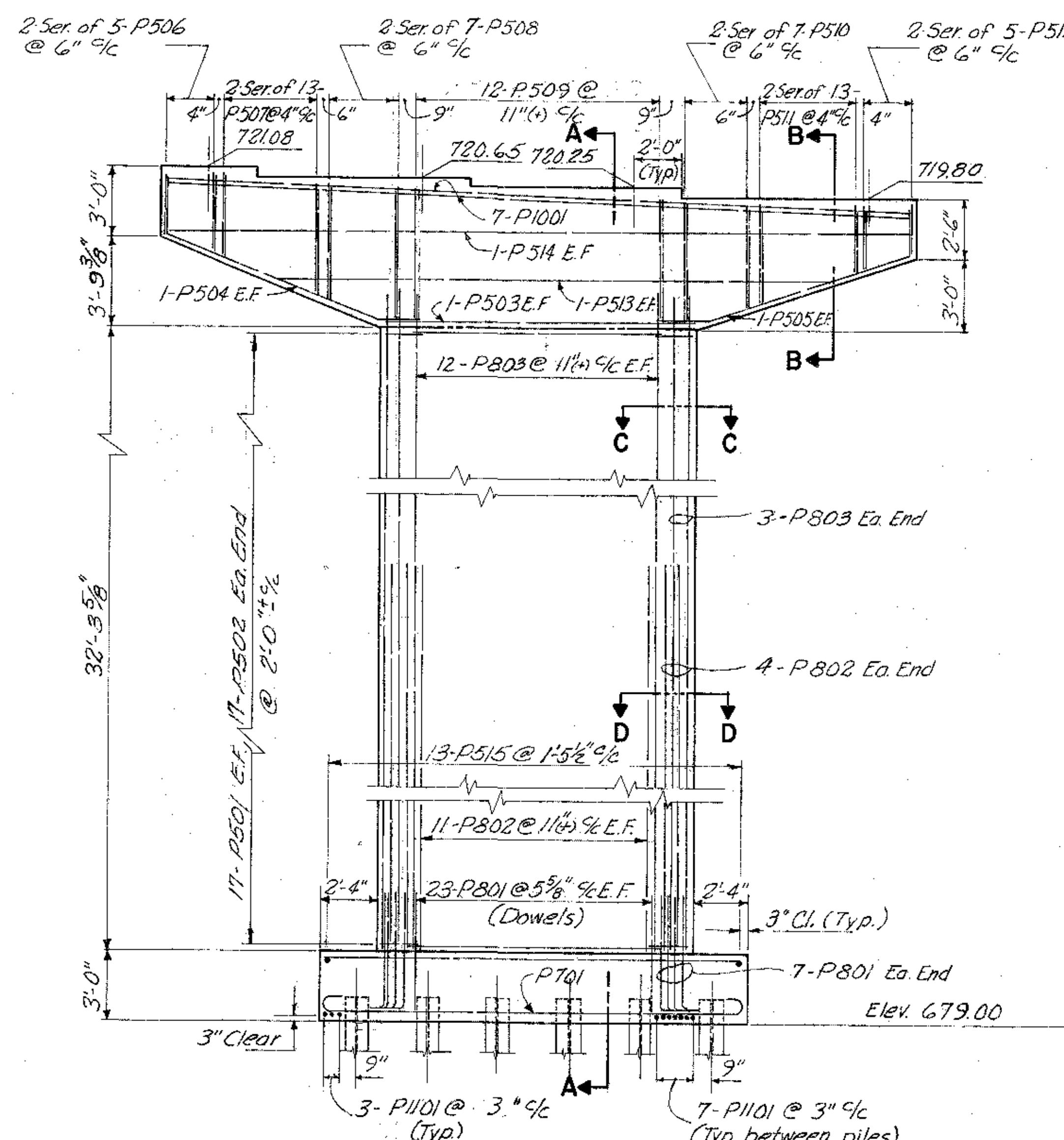
E. S. PRESTON & ASSOCIATES, LIMITED			
ENGINEERS			
COLUMBUS, OHIO			
11/14/83			
FORWARD ABUTMENT			
BRIDGE NO. FRA-70-1328S-EB			
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230			
OVER SCIOTO RIVER			
STA. 505+5714			
FRANKLIN COUNTY STA. 515+1535			
DESIGNED	DRAWN	TRACED	CHECKED
A.S.B.	R.E.L.	J.M.L.	A.M.M.
REVIEWED DATE			
REVISED			
M.E.N. 9-8-70			

ED. RD. VISION	STATE	PROJECT	
2	OHIO		

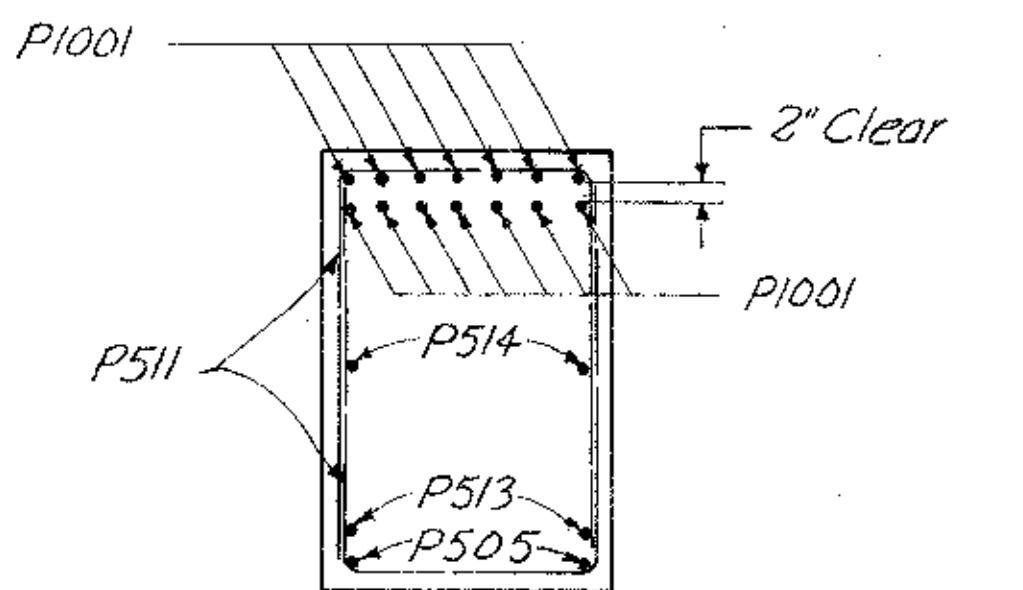
RANKLIN COUNTY
RA-70-12.31 S



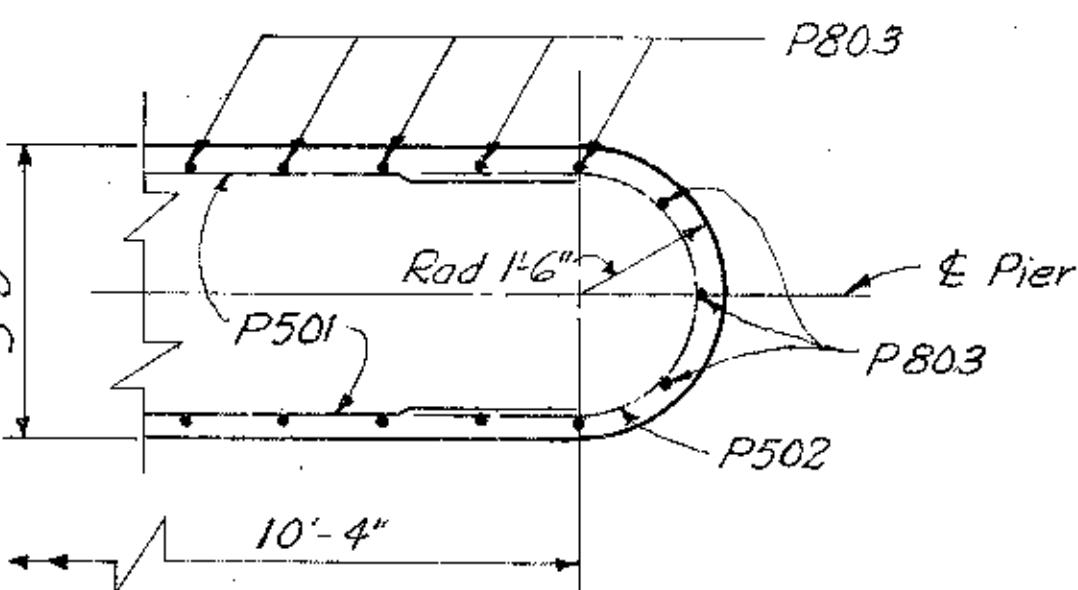
PLAN (PIER NO. 1)



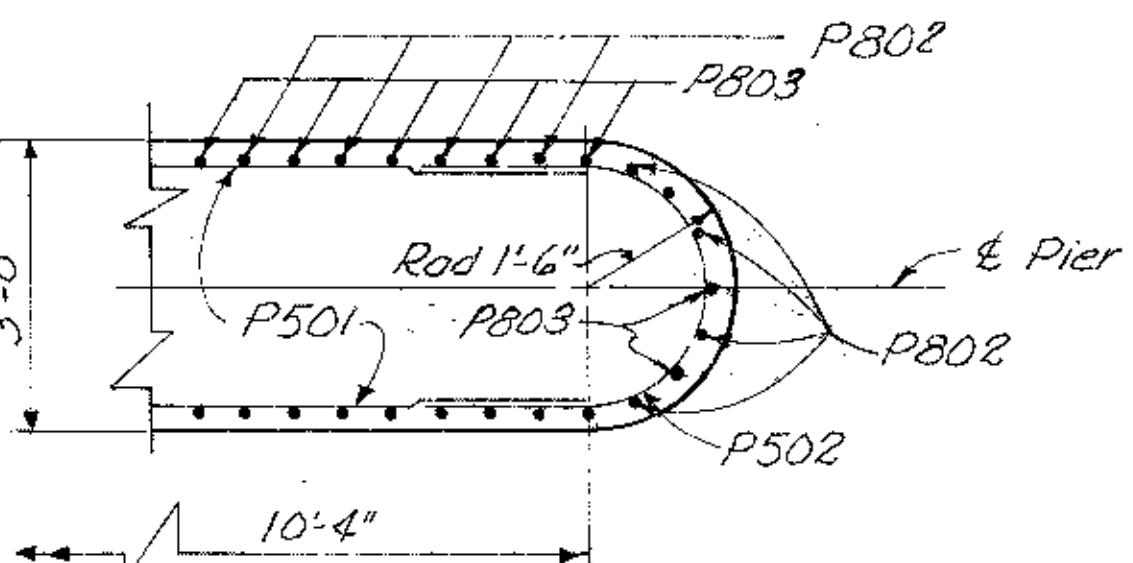
ELEVATION (PIER NO. 1)



SECTION B-B



SECTION C-C

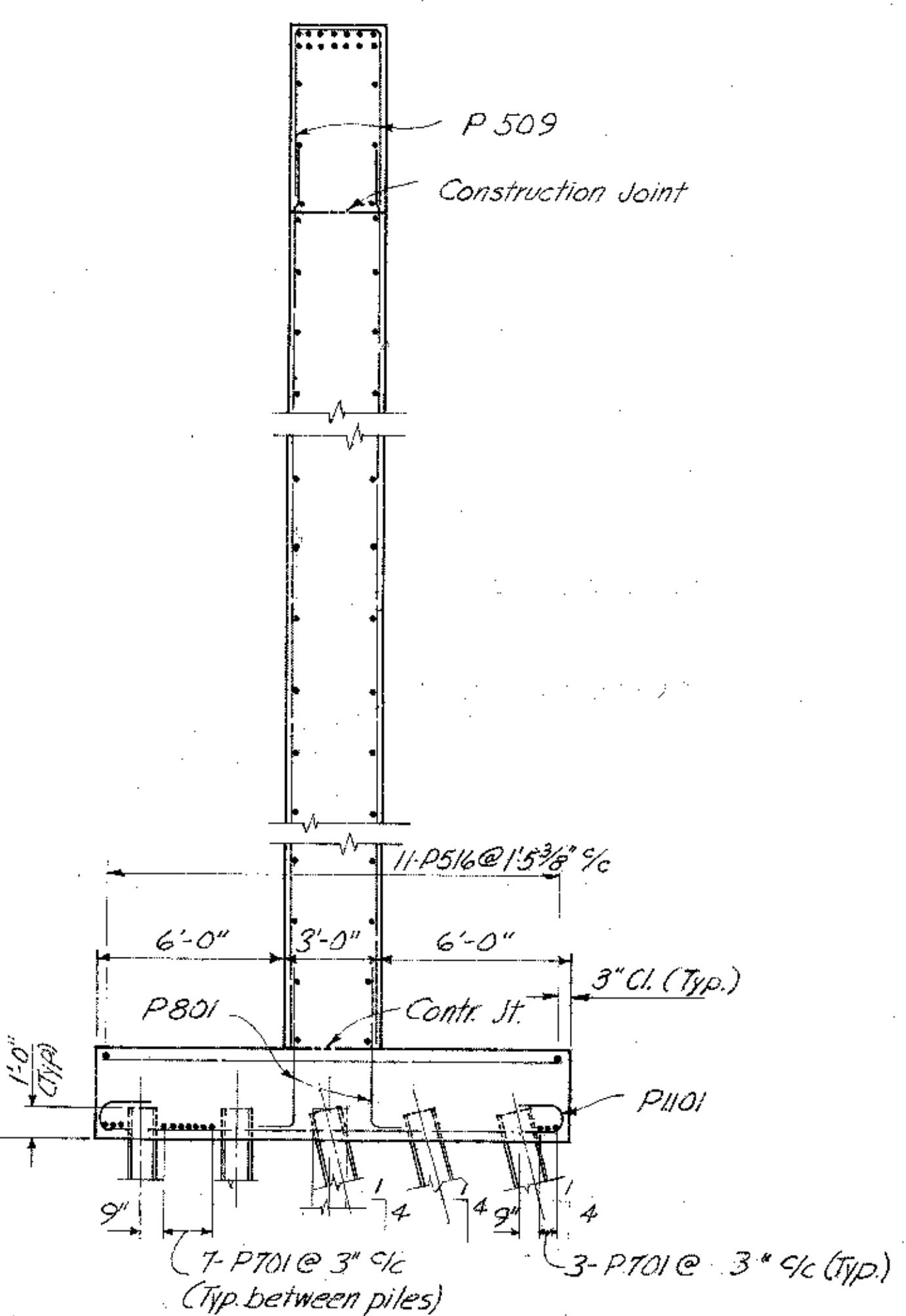


SECTION D-D

LEGEND: (TYPICAL ALL PIERS)

E.F. = EACH FACE

\downarrow = BATTER PILES 1:4
 \swarrow (and direction of batter)

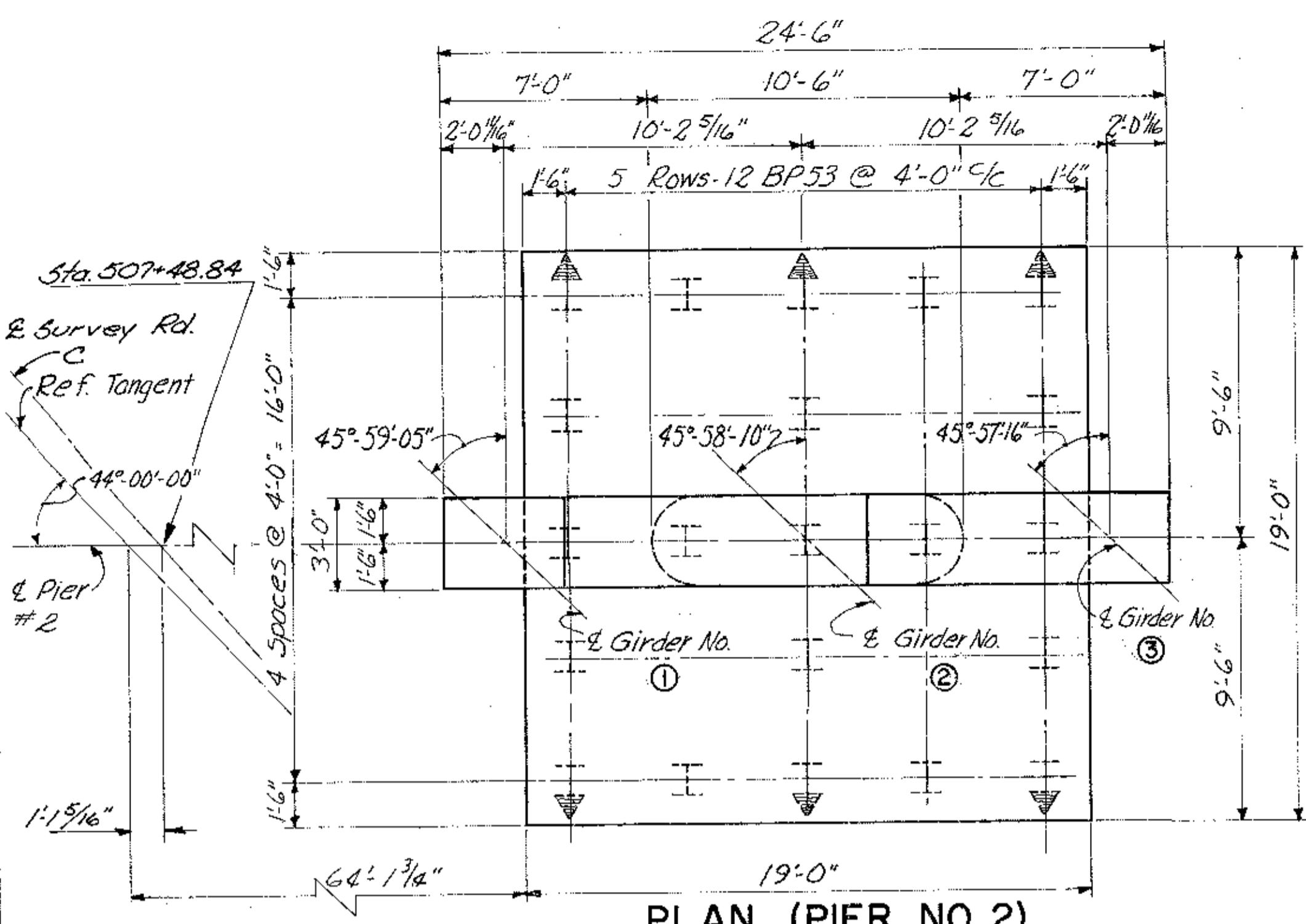


SECTION A-A

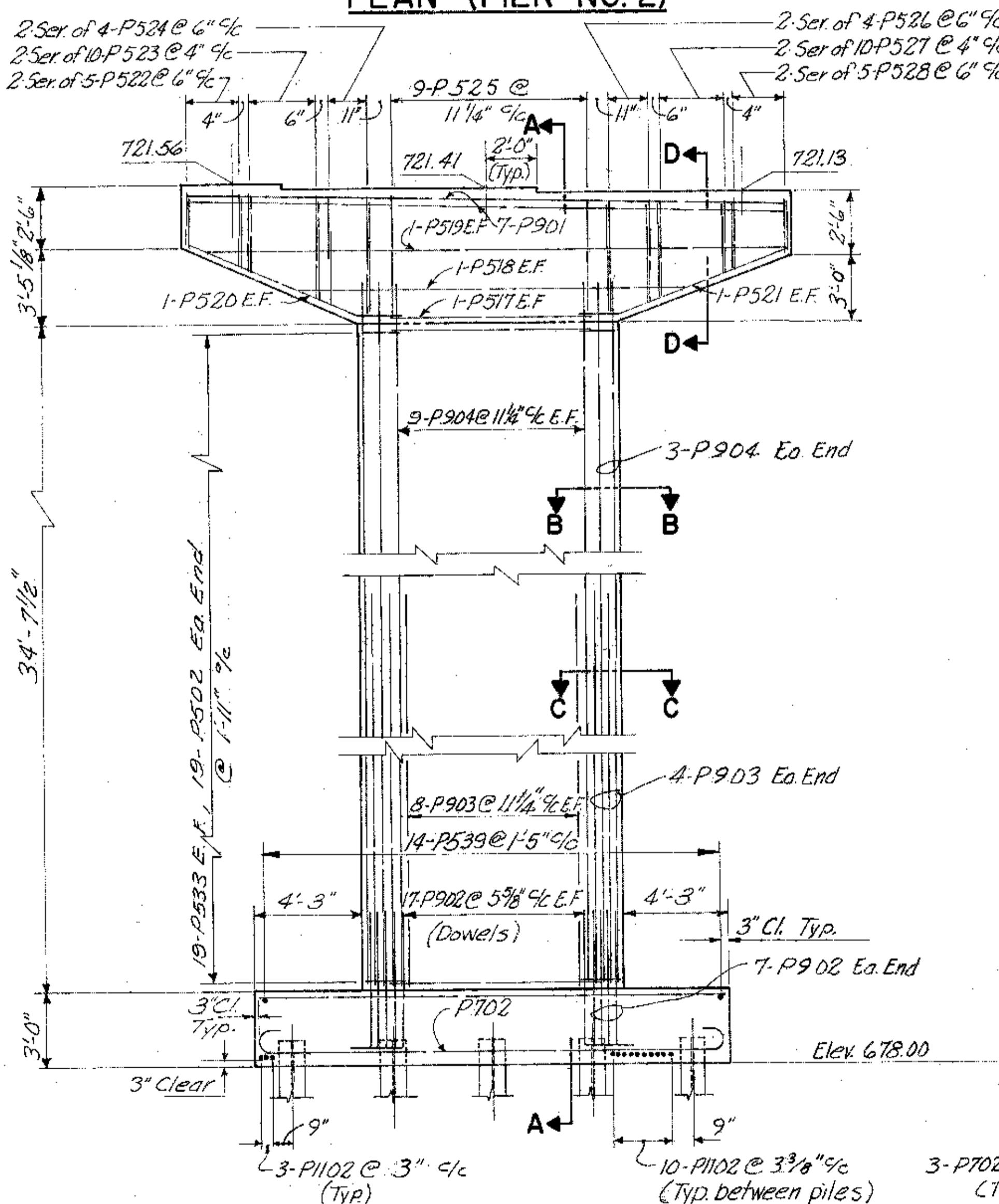
E. S. PRESTON & ASSOCIATES, LIMITED
ENGINEERS
COLUMBUS, OHIO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

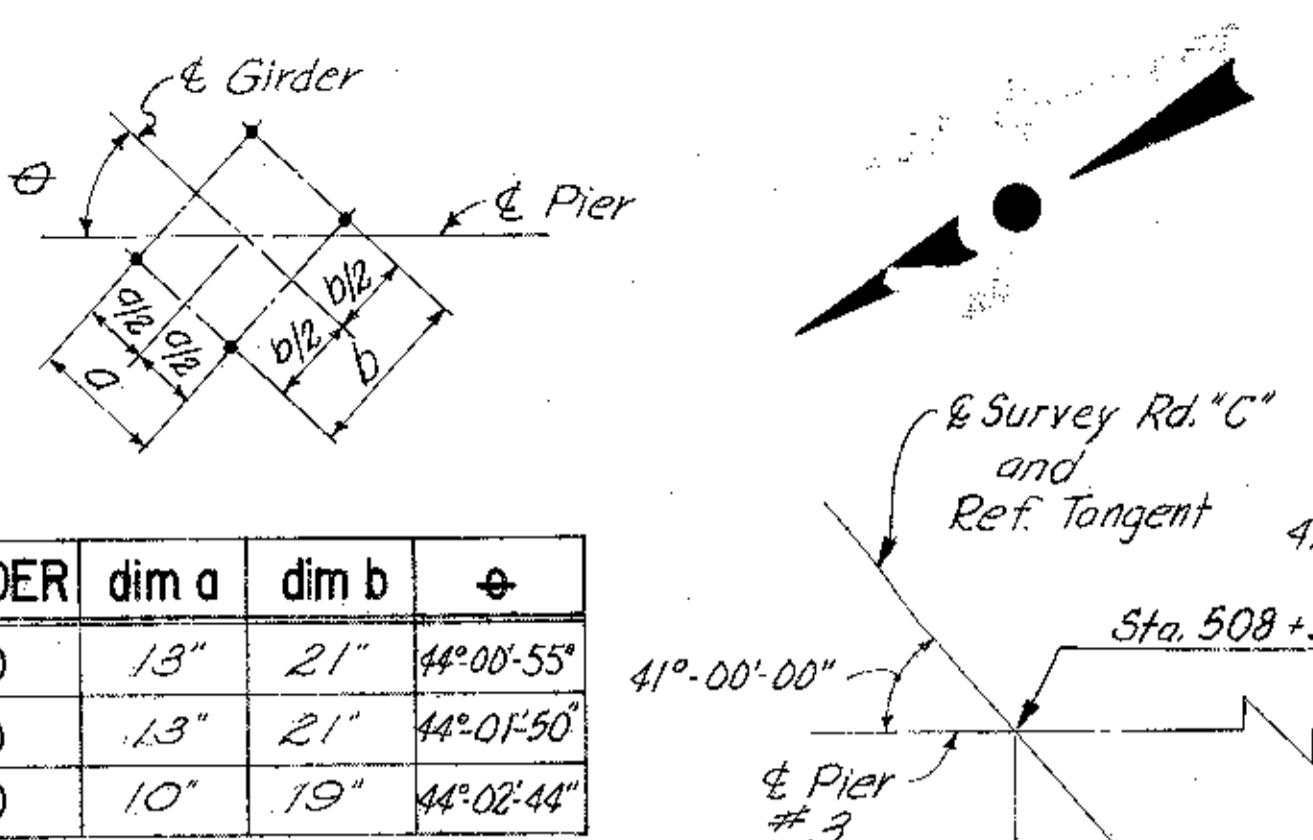
FRANKLIN COUNTY
FRA-70-1231S



PLAN (PIER NO. 2)

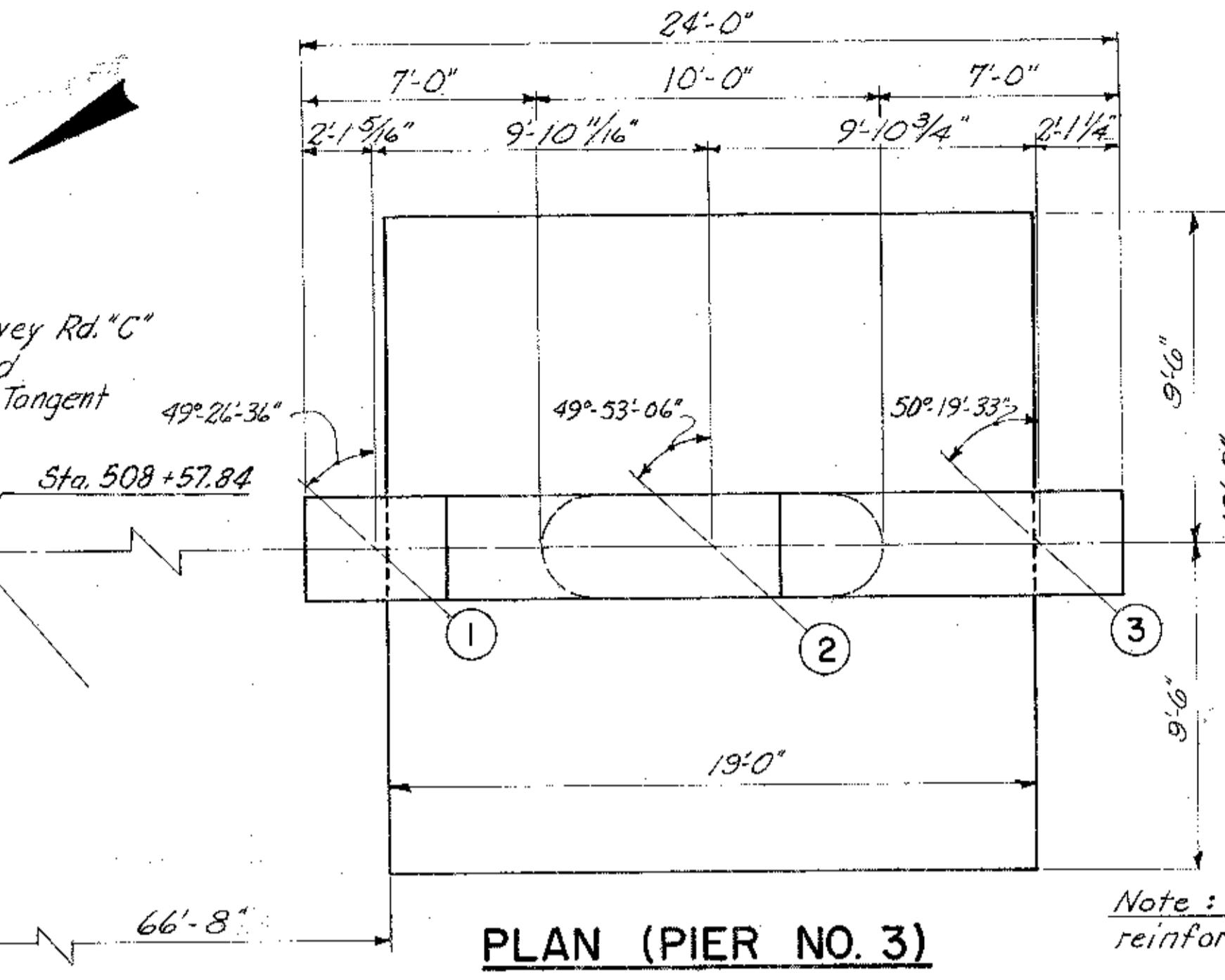


ELEVATION (PIER NO. 2)



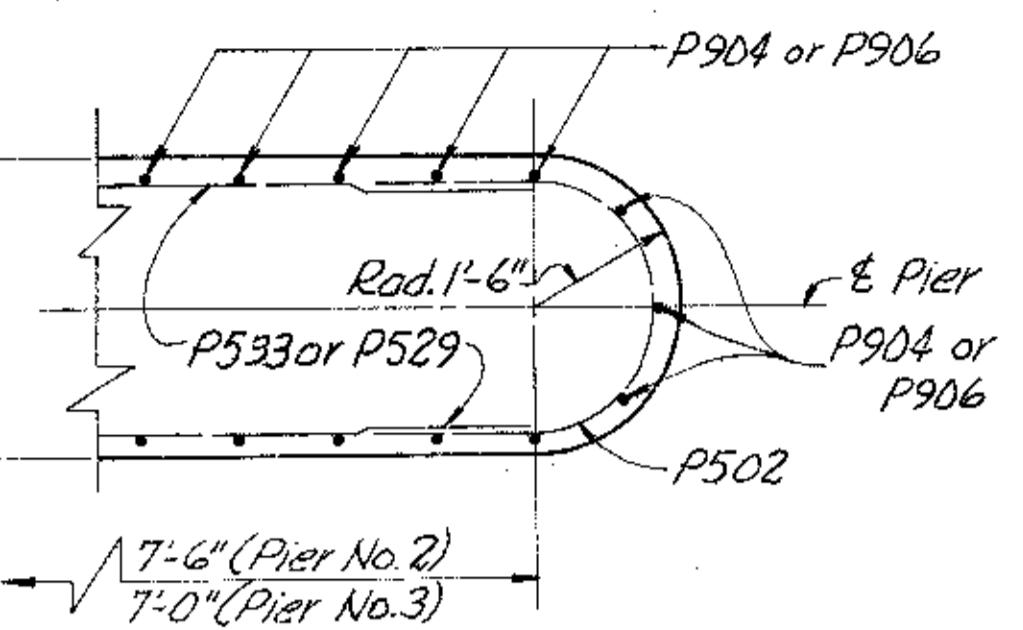
ANCHOR BOLT DETAIL
(PIER NO. 2)

Note: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bolt holes.

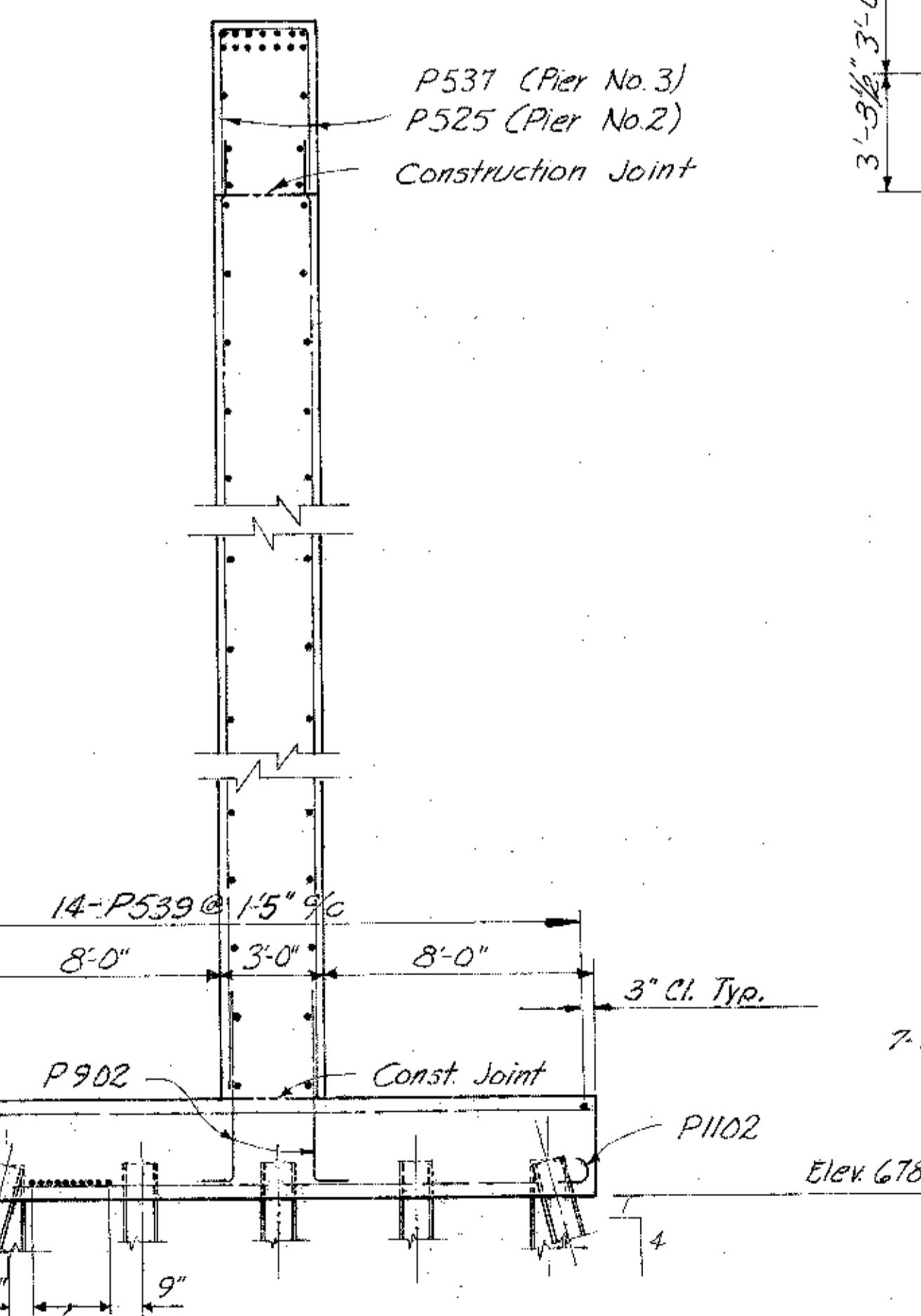


PLAN (PIER NO. 3)

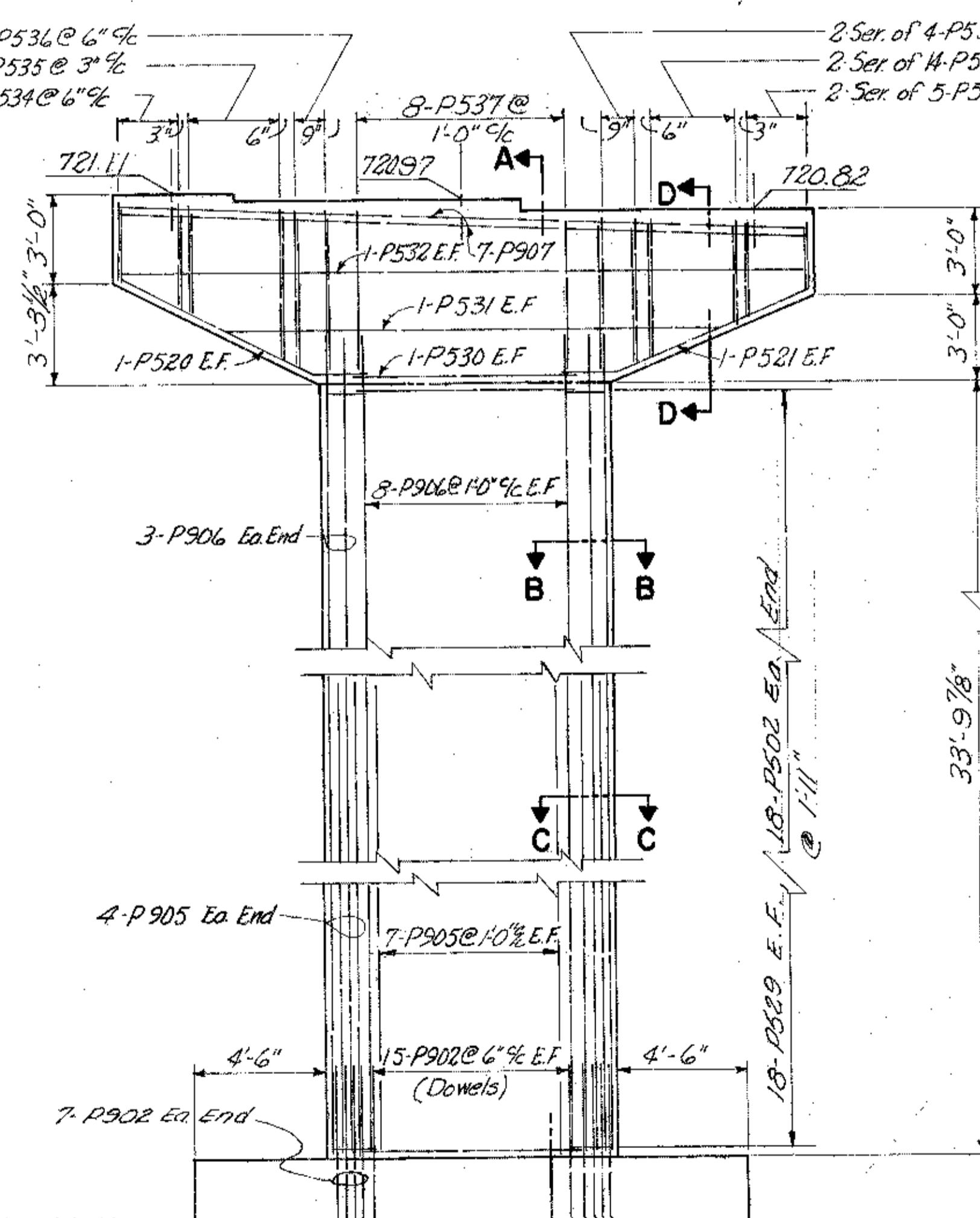
Note: For Pile spacing & Footing reinforcing see Pier No. 2.



SECTION B-B

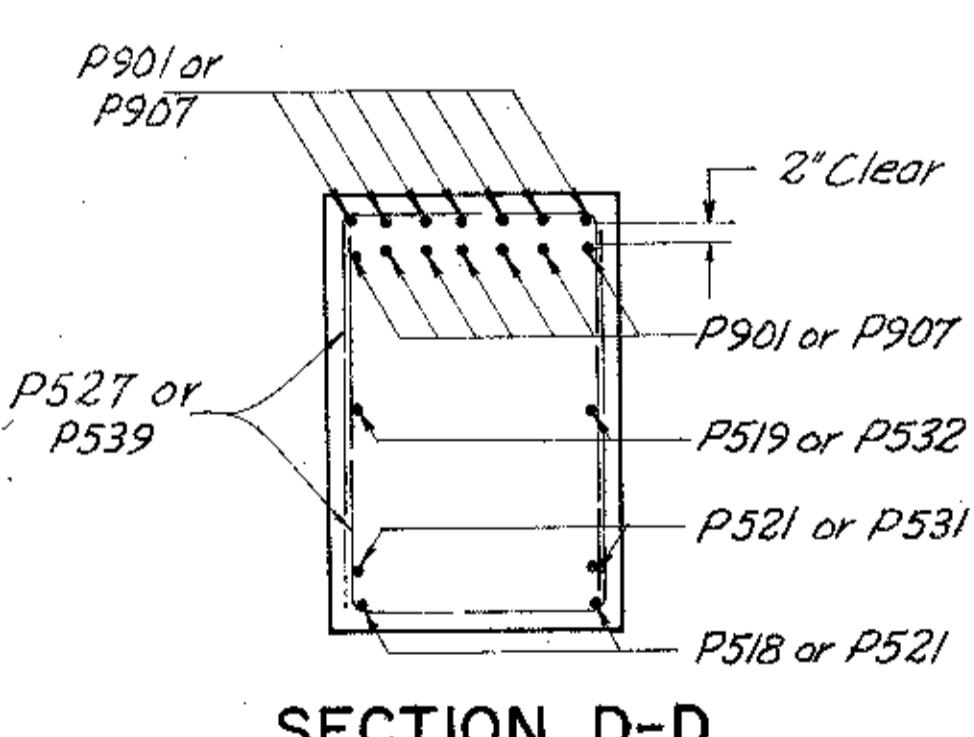


SECTION A-A



ELEVATION
(PIER NO. 3)

NOTE:
For additional
notes see sh.
18/43



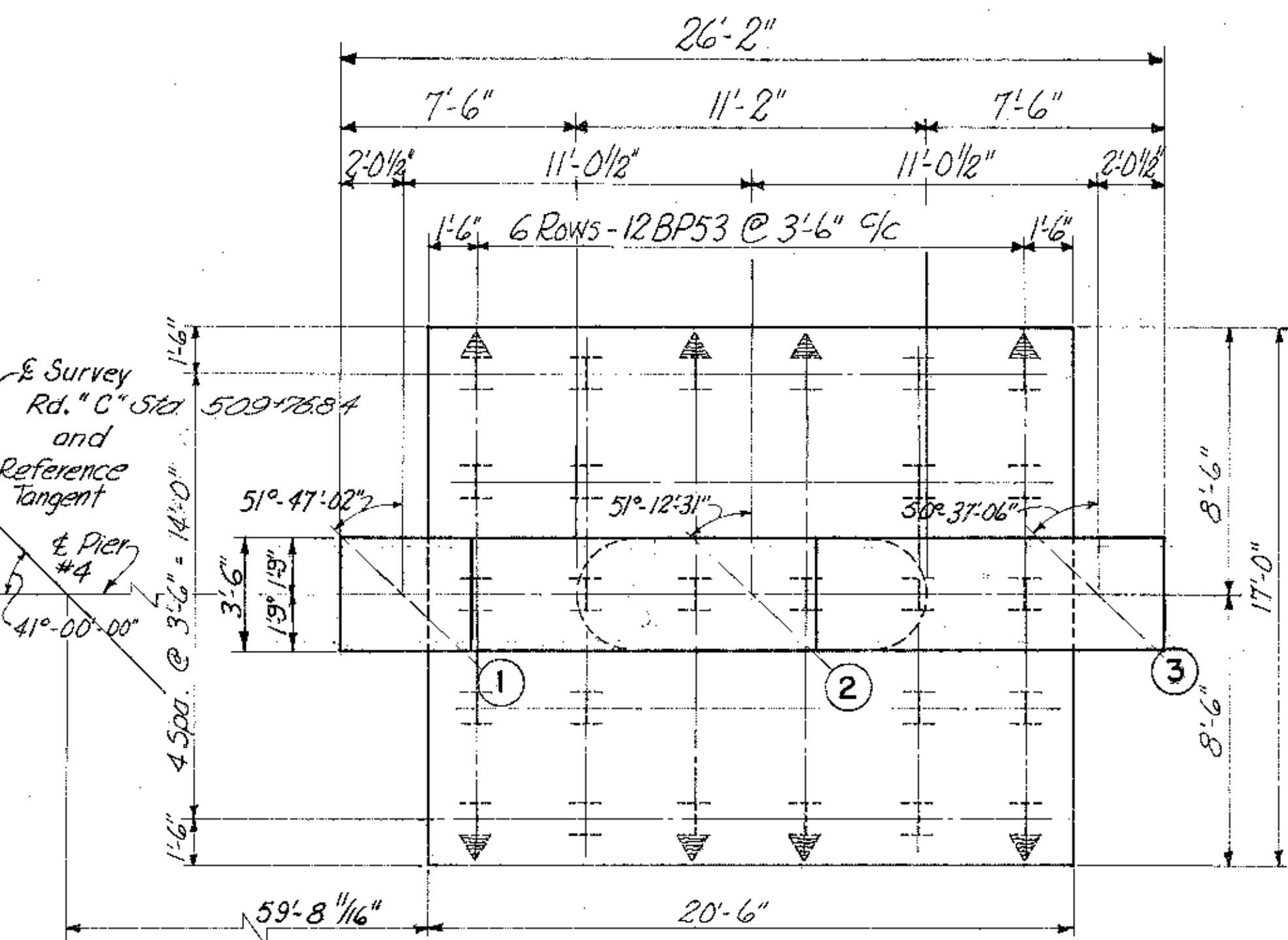
SECTION D-D

E. S. PRESTON & ASSOCIATES, LIMITED
ENGINEERS
COLUMBUS, OHIO

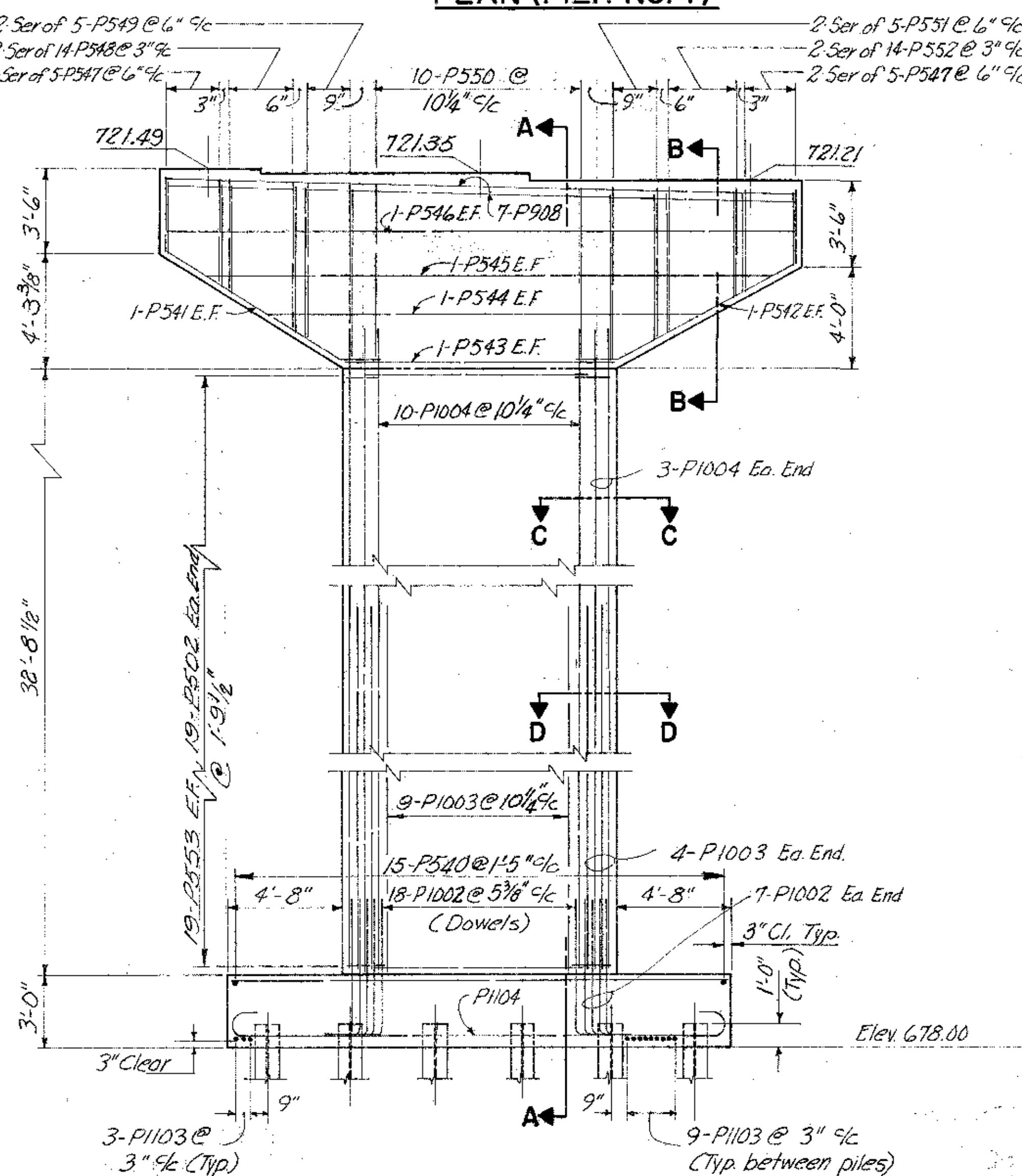
D. RD. VISION	STATE	PROJECT	
2	OHIO		

798

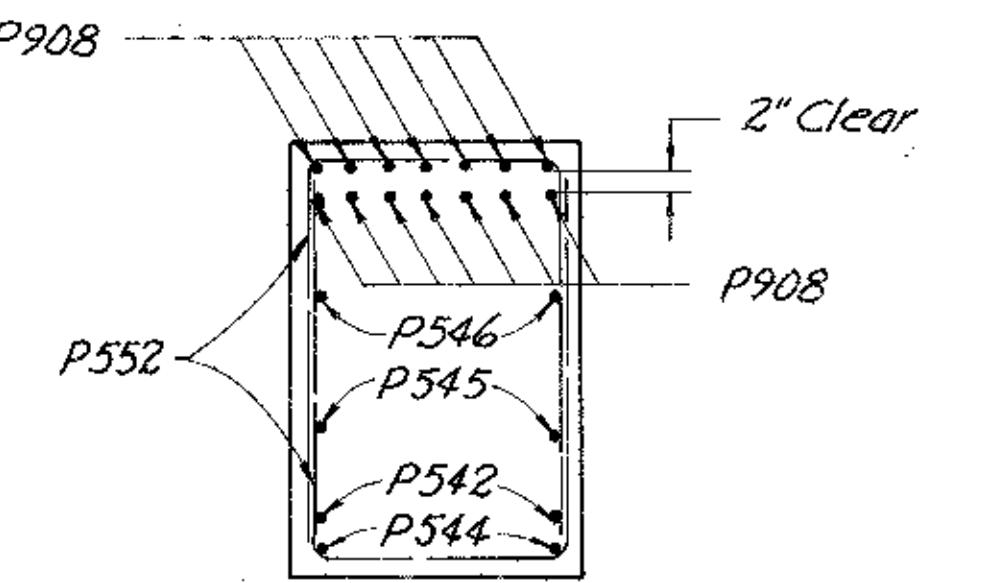
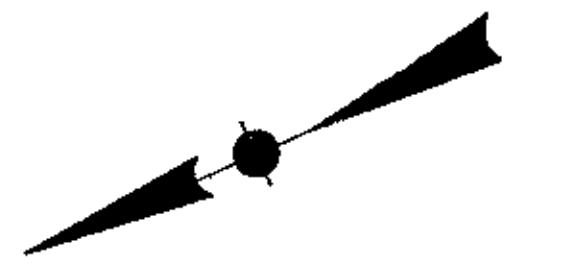
FRANKLIN COUNTY
FRA-70-1231 S



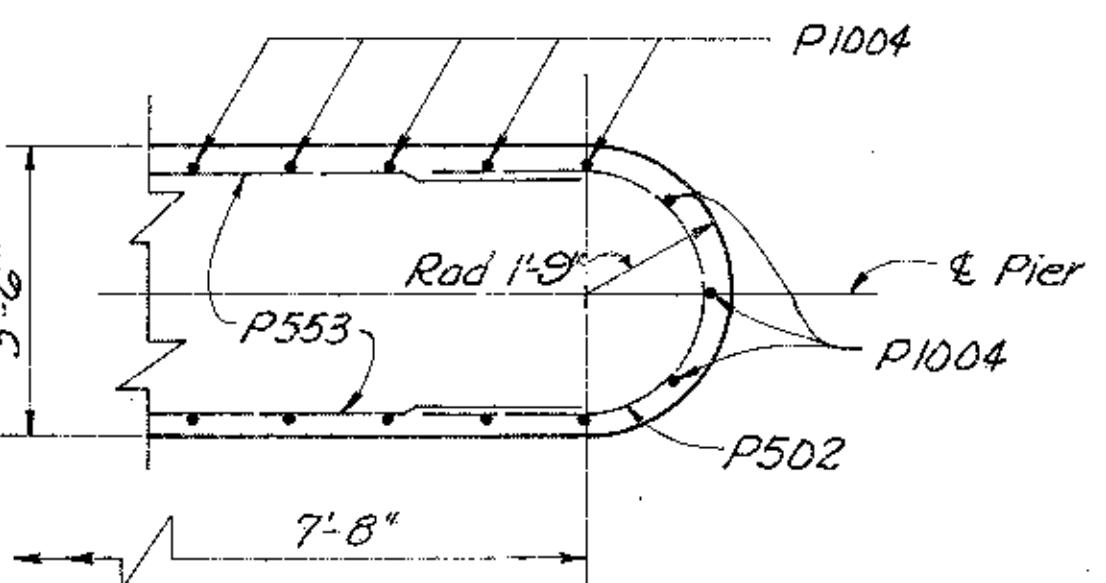
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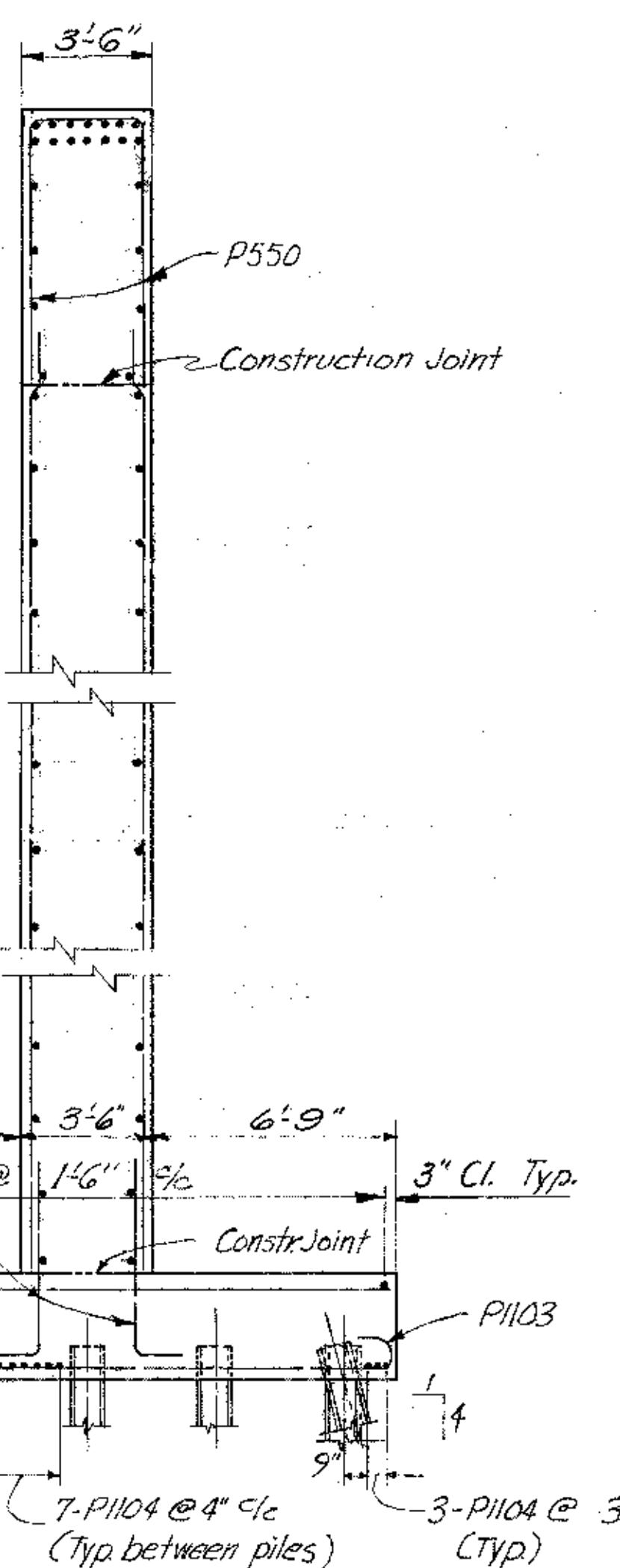
ELEVATION (PIER NO. 4)



SECTION B-B



SECTION C-C



SECTION A-A

NOTES:
For additional notes
see sheet no 12143

E. S. PRESTON & ASSOCIATES, LIMITED
ENGINEERS
COLUMBUS, OHIO

PIER NO. 4 DETAILS

BRIDGE NO. : FRA-70-1328S-E.B.

ON TO EXIST. BRIDGE NO. FRA.- 40-1230

OVER SCIOTO RIVER

KLIN COUNTY STA. 505 + 57.14
STA. 515 + 15.35

DRAWN **TRACED** **CHECKED** **REVIEWED DATE** **REVISE**

BROWN TRACED CHECKED REVIEWED DATE REVISE
R.E.L. J.N.L. A.J.M. NEN 9-8-70

10. The following table shows the number of hours worked by each employee in a company.

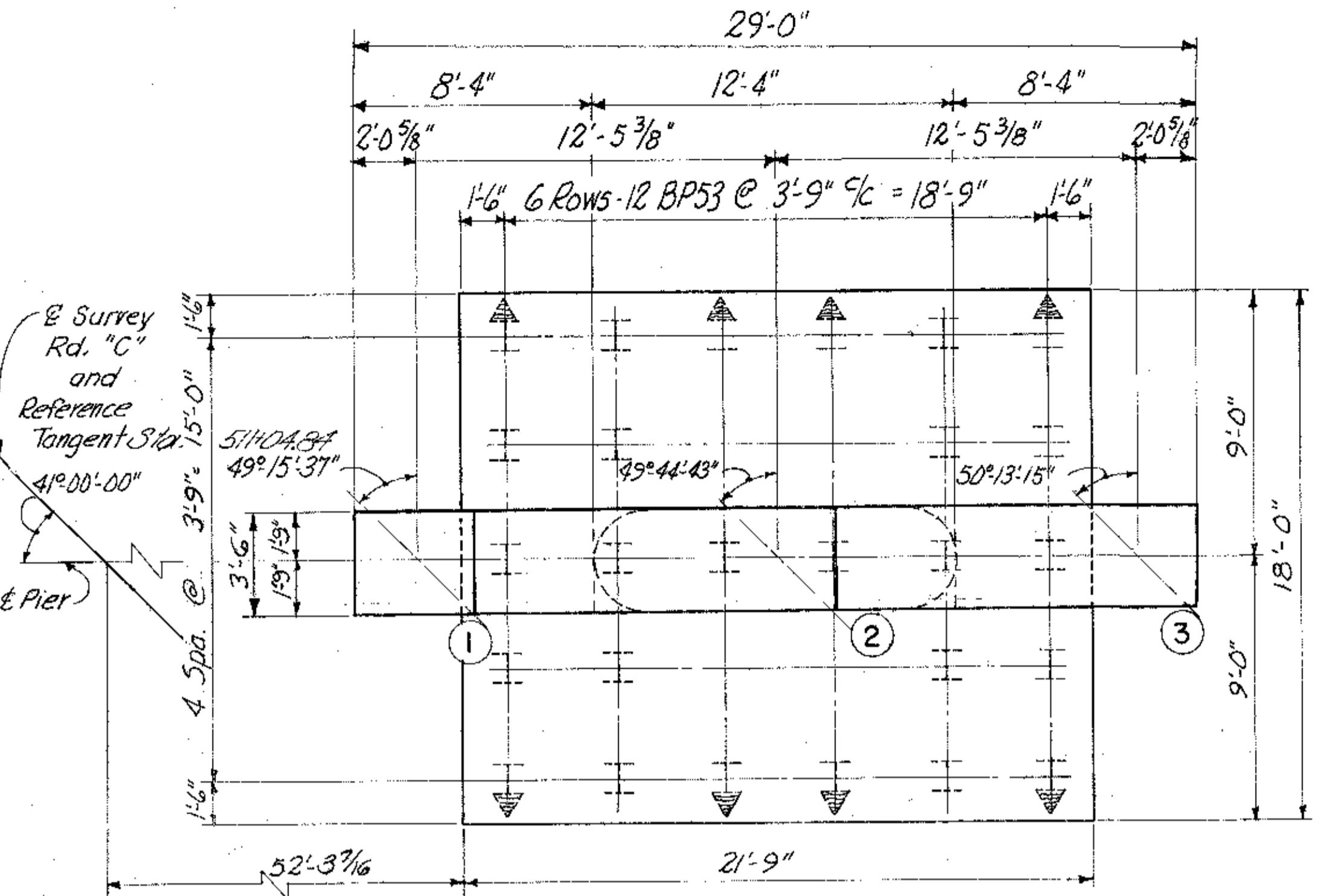
[View all posts by **John**](#) [View all posts in **Uncategorized**](#)

Appendix A1 Page 14 of 17

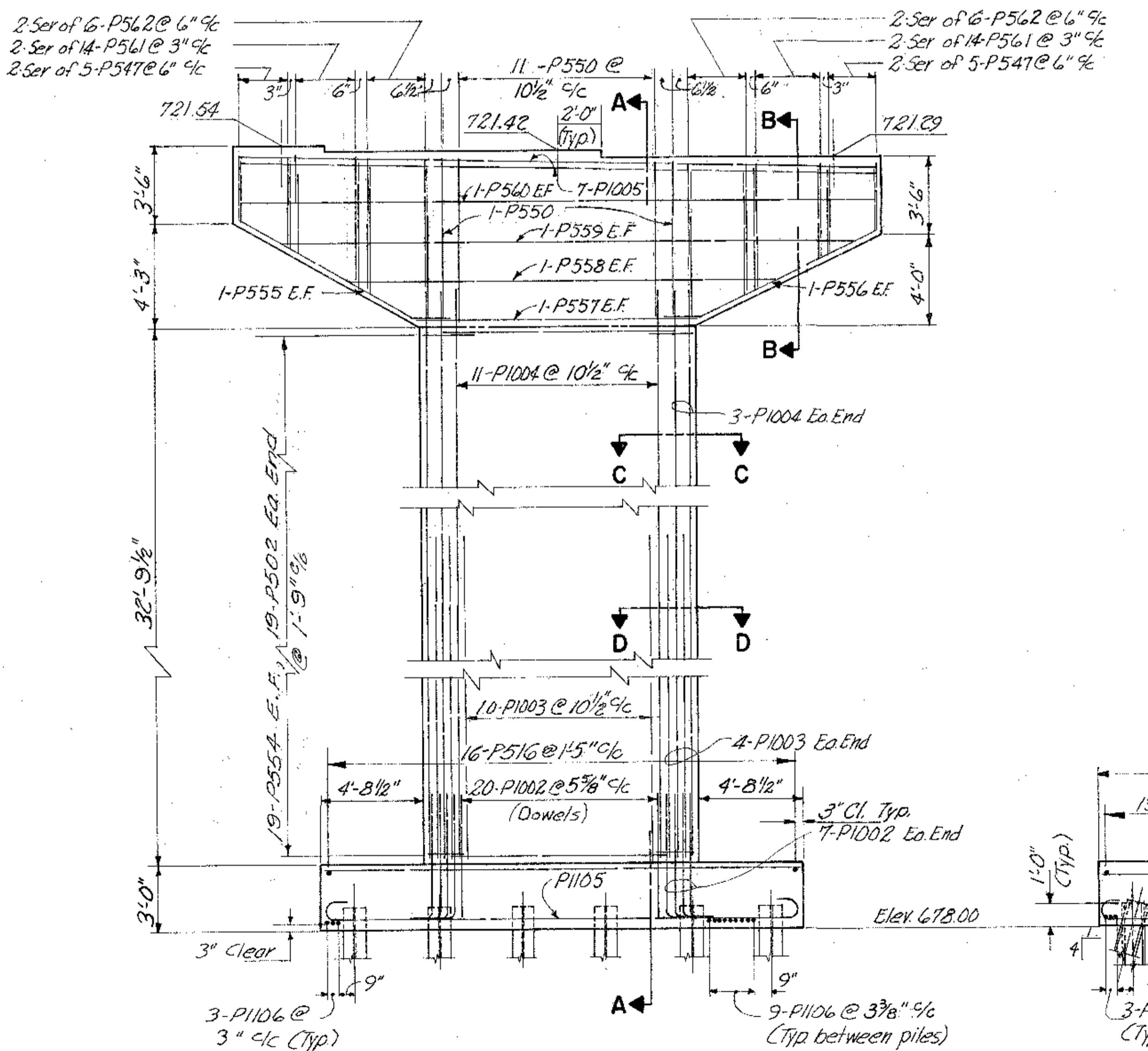
FRANKLIN COUNTY
A-70-1231S

O. RD. ISION	STATE	PROJECT	
2	OHIO		

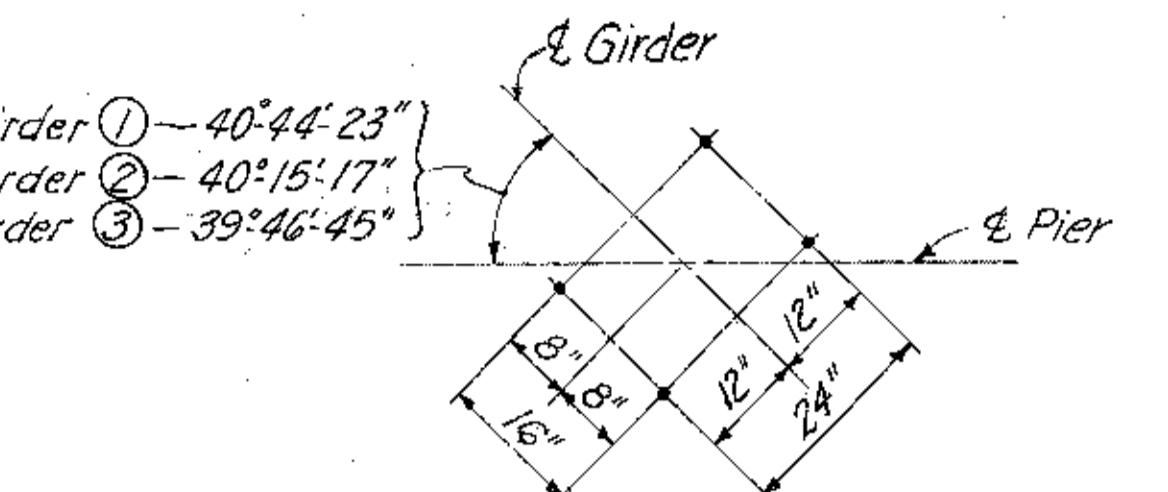
799



PLAN (PIER NO. 5)

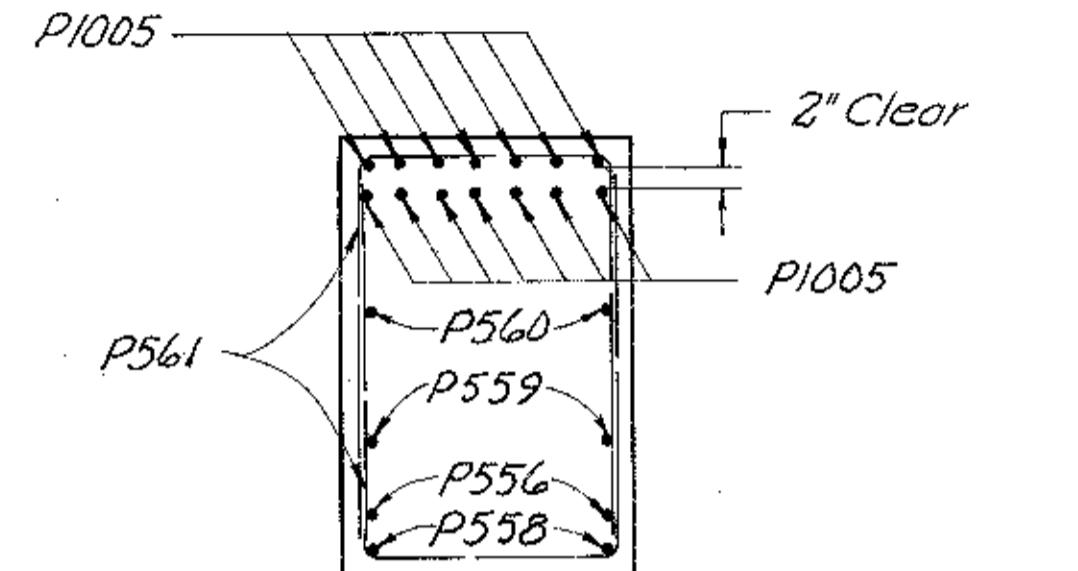


EL E V A T I O N (P I E R N O . 5)

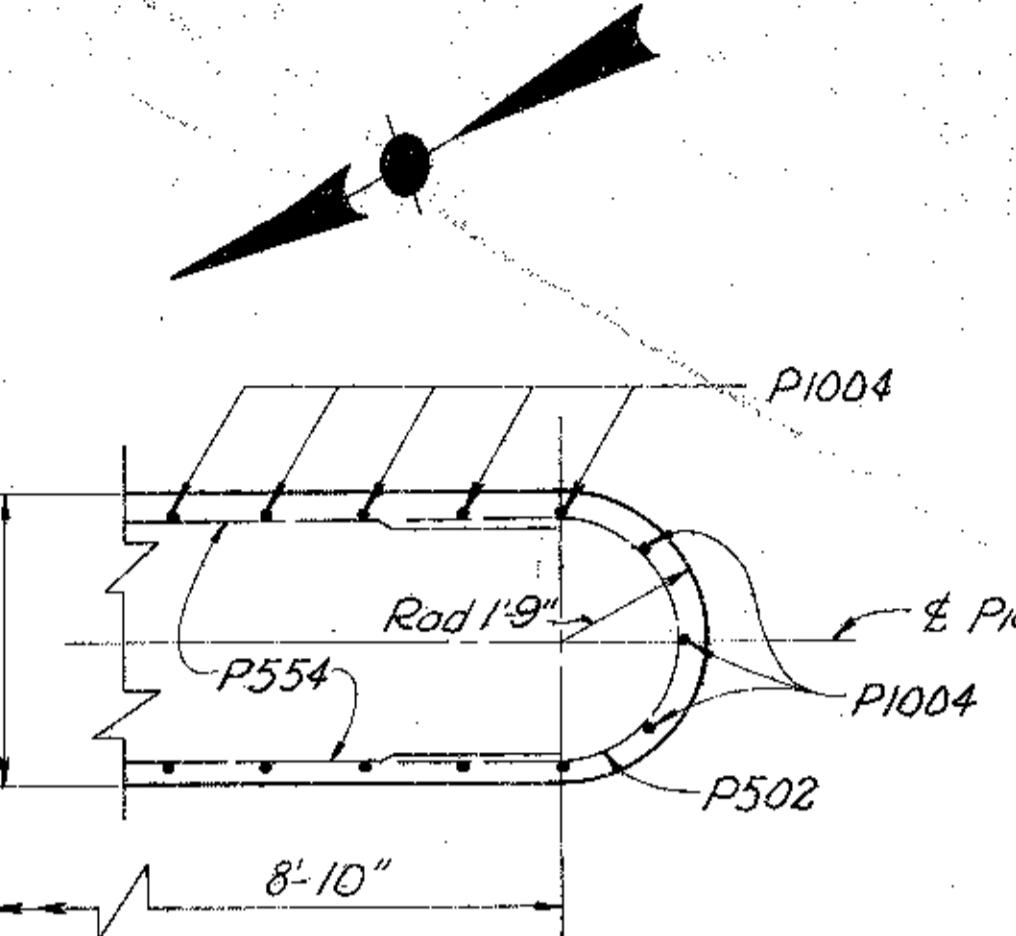


ANCHOR BOLT DETAIL

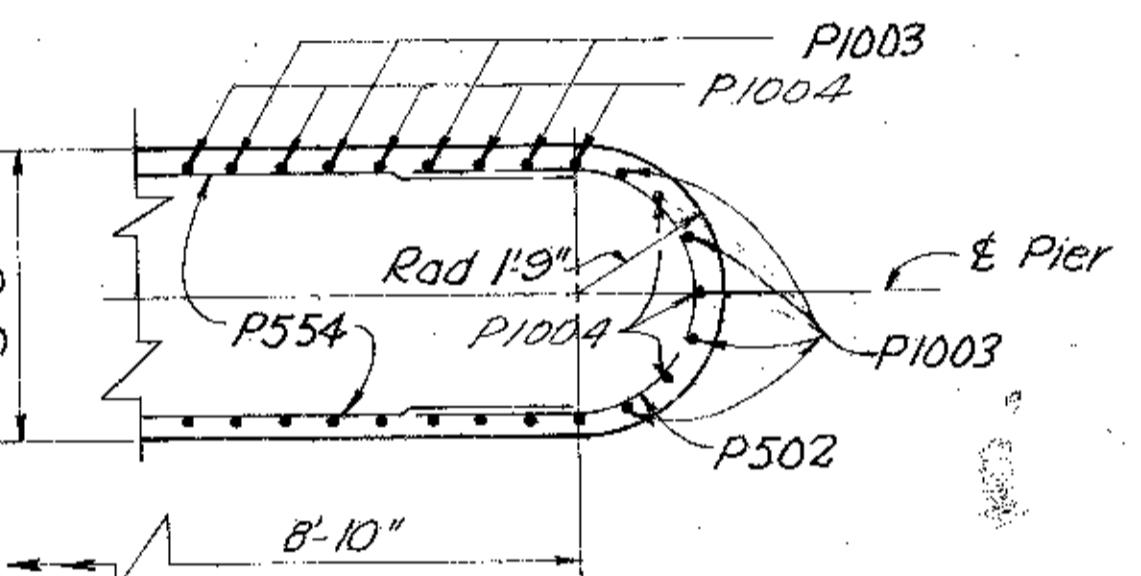
Note: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bolt holes.



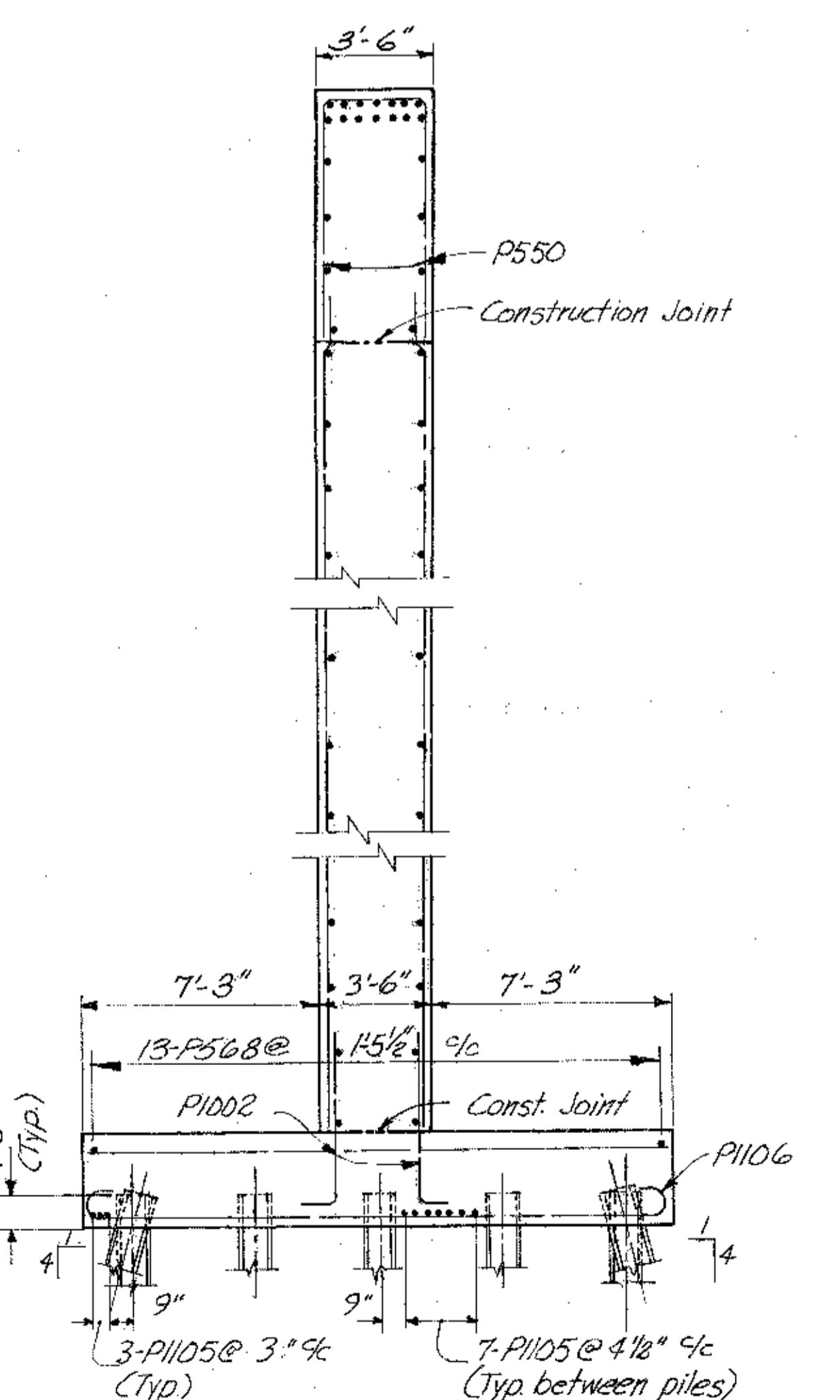
SECTION B-B



SECTION C-C



SECTION D-D



SECTION A-A

NOTES:
For additional notes
see sheet no. 12 | 43

E. S. PRESTON & ASSOCIATES, LIMITED
ENGINEERS
COLUMBUS, OHIO

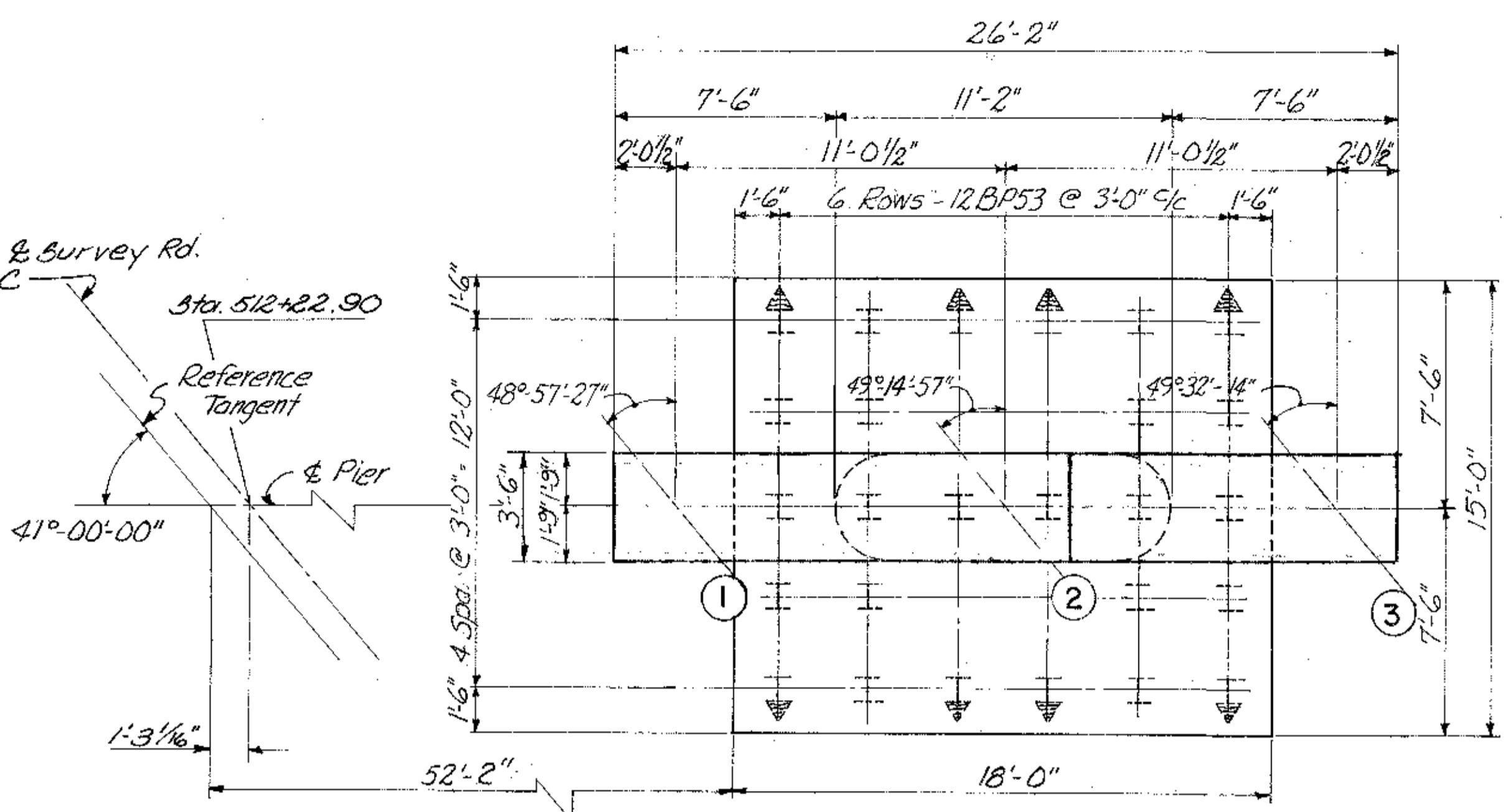
PIER NO. 5 DETAILS
BRIDGE NO. FRA-70-1328S-EB
ADDITION TO EXIST. BRIDGE NO. FRA-40-1230
OVER SCIOTO RIVER

STA. 505+57.14
STA. 515+15.35

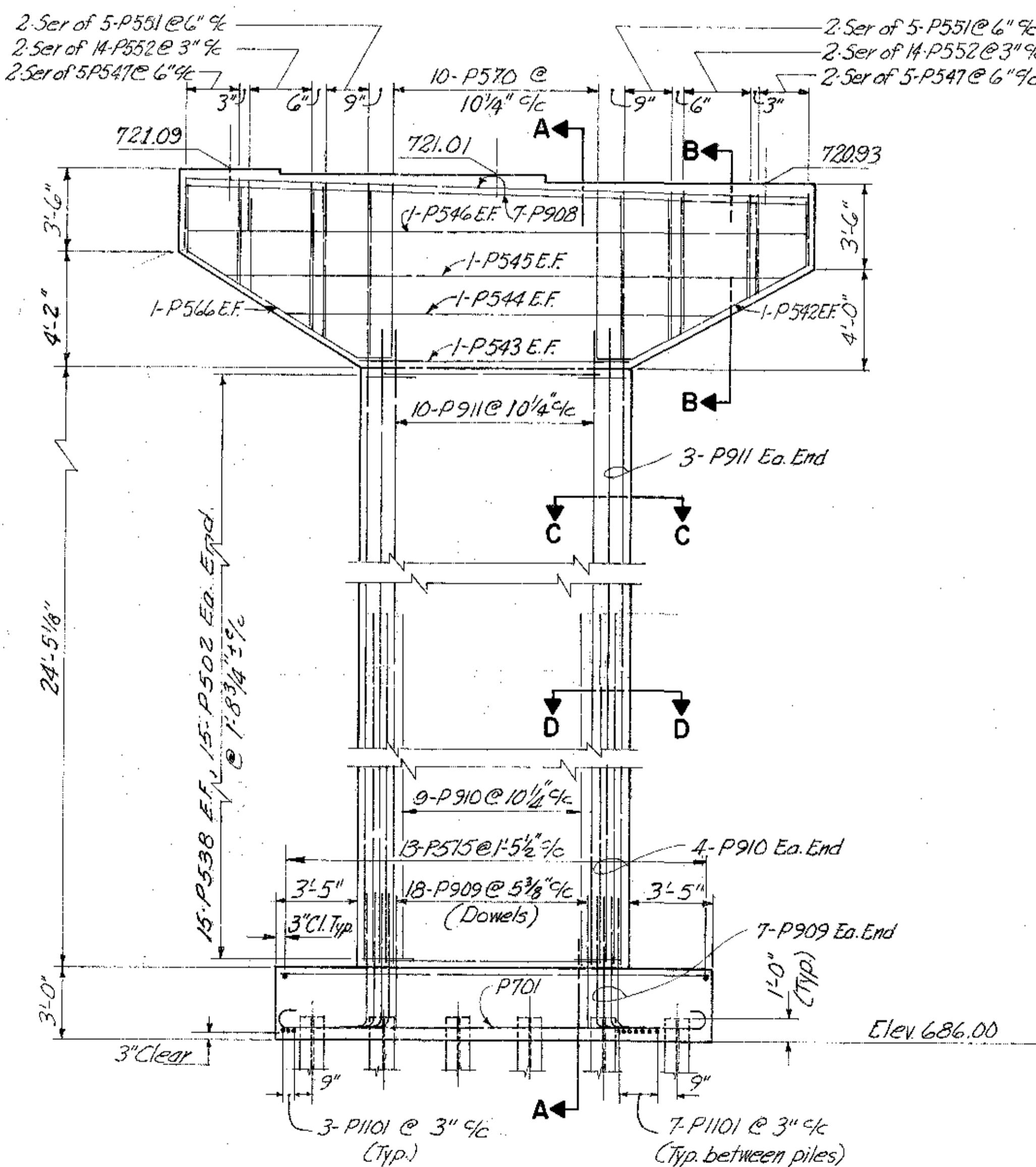
SEARCHED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
B. REZ.	JNL	AJM		NEEN 9-8-90	

ED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

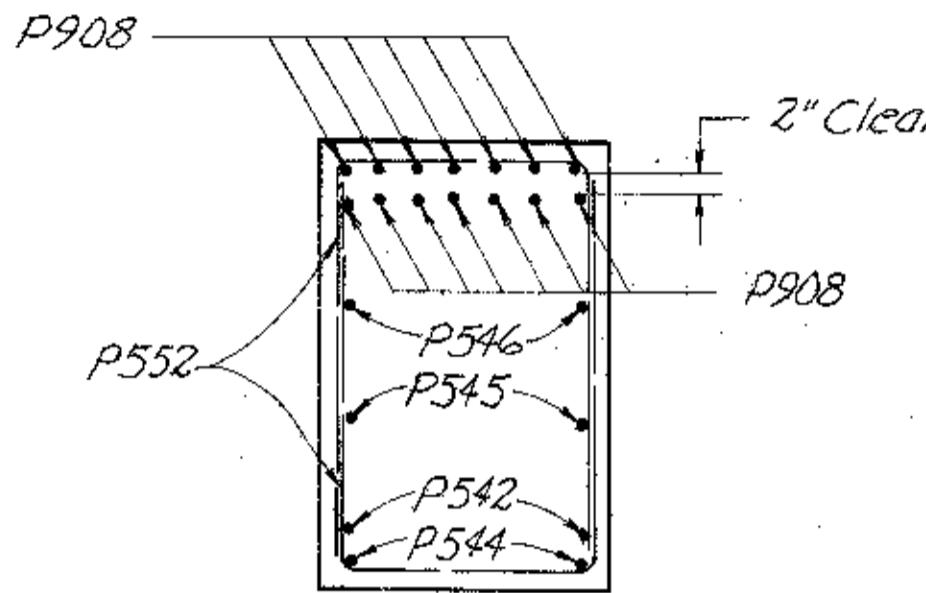
FRANKLIN COUNTY
FRA-70-1231S



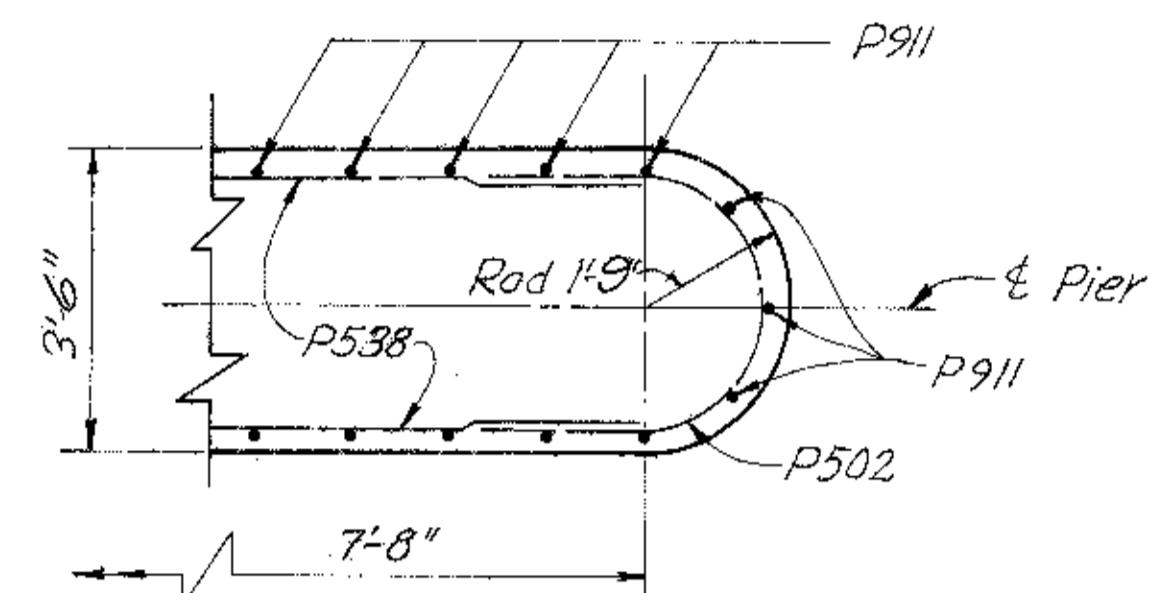
PLAN (PIER NO.6)



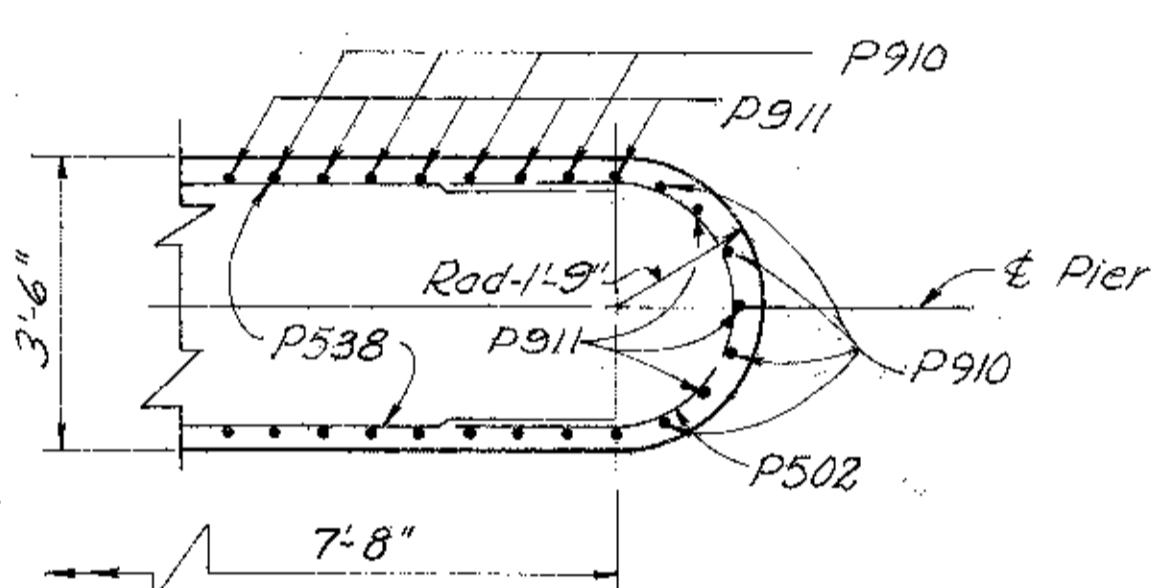
ELEVATION (PIER NO.6)



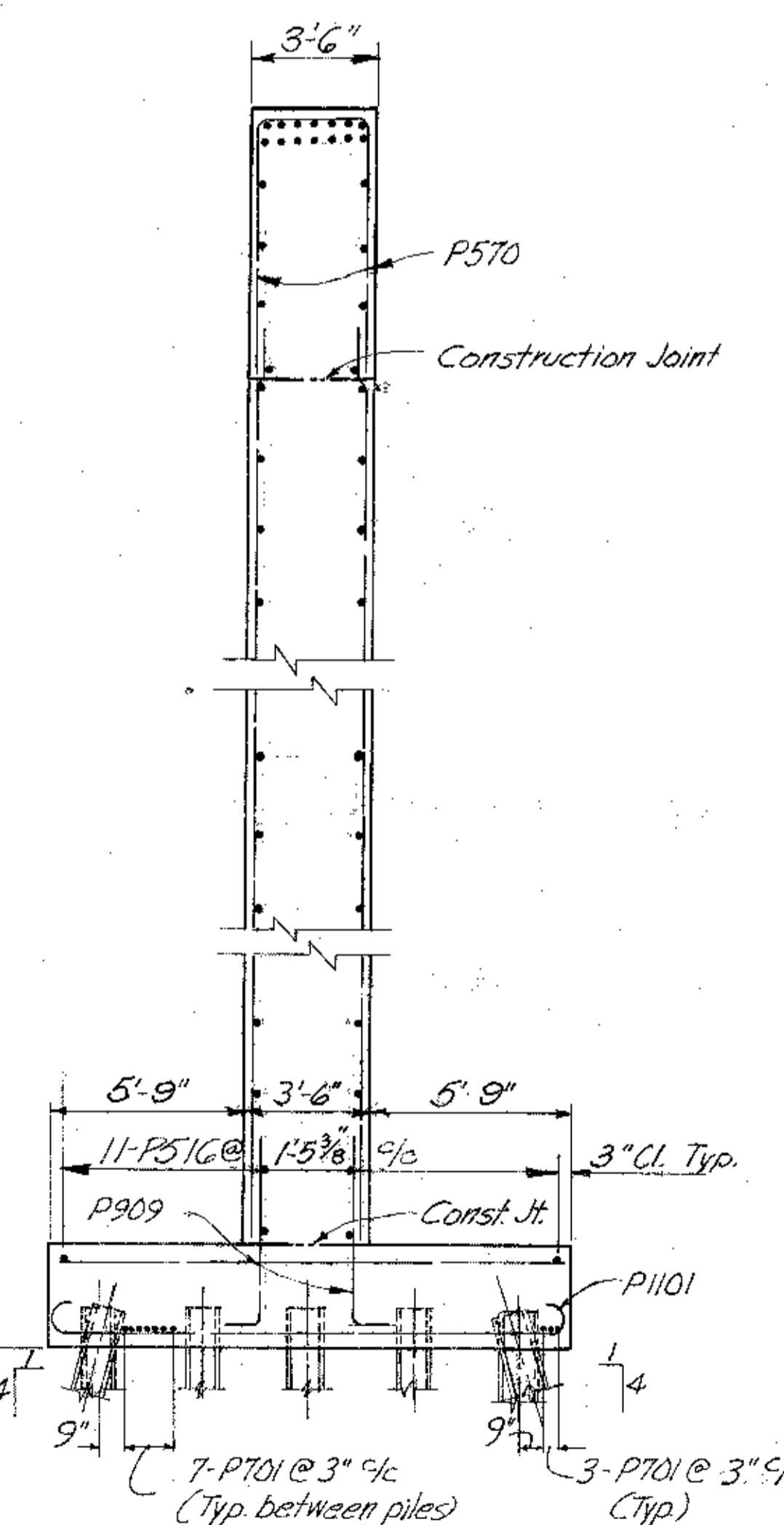
SECTION B-B



SECTION C-C



SECTION D-D



SECTION A-A

NOTES:
For additional notes
see sheet no **12143**

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PIER NO. 6 DETAILS

BRIDGE NO FRA-70-1328S-FB

DITION TO EXIST BRIDGE NO: FRA-40-1230

OVER SCIOTO RIVER
STA 505±5714

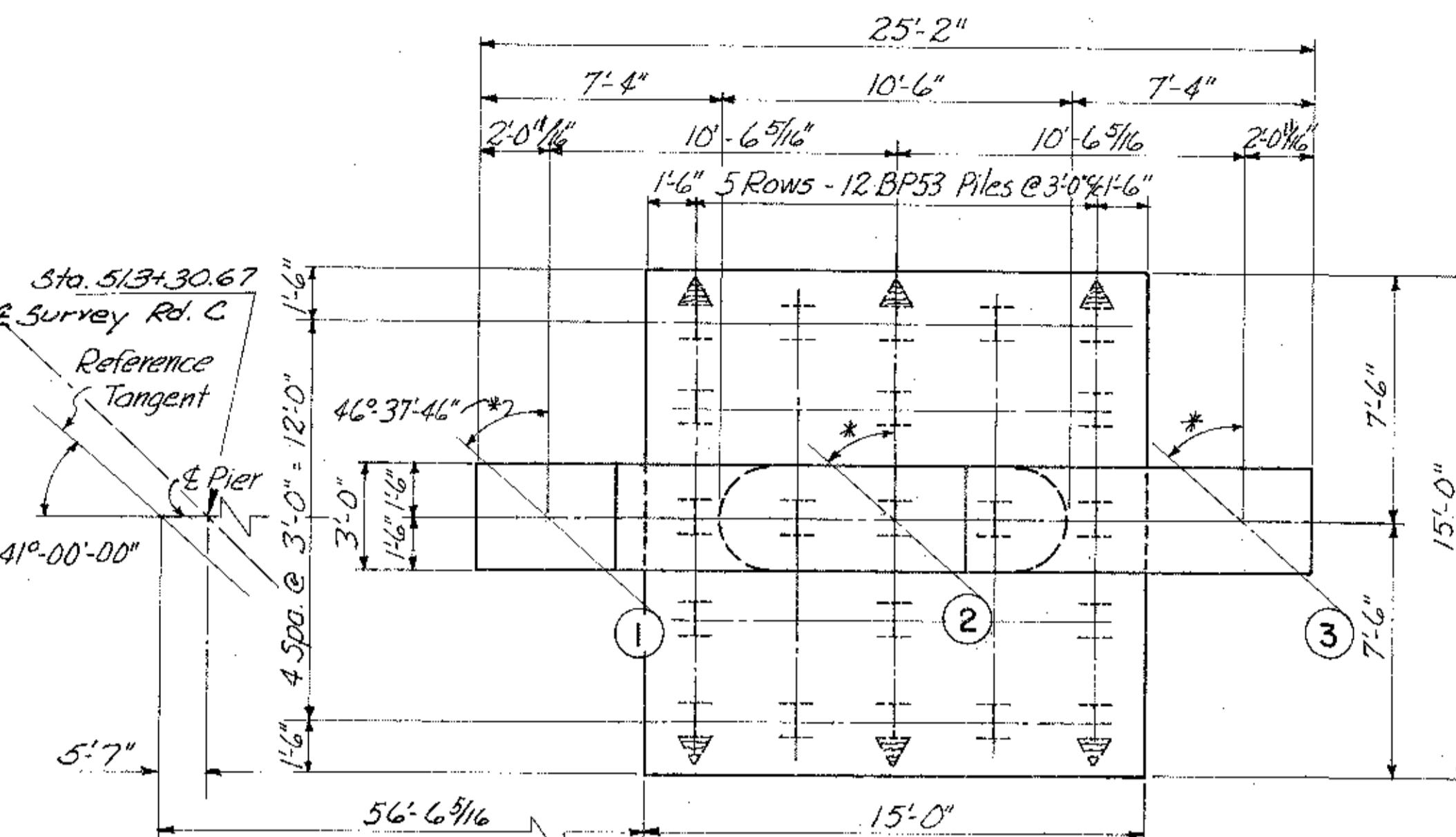
NKIN COUNTY STA. 515+15.35

DRAWN TRACED CHECKED REVIEWED DATE REVISED
R.E.L. **R.V.B.** **A.J.M.** **NEN 9-8-70**

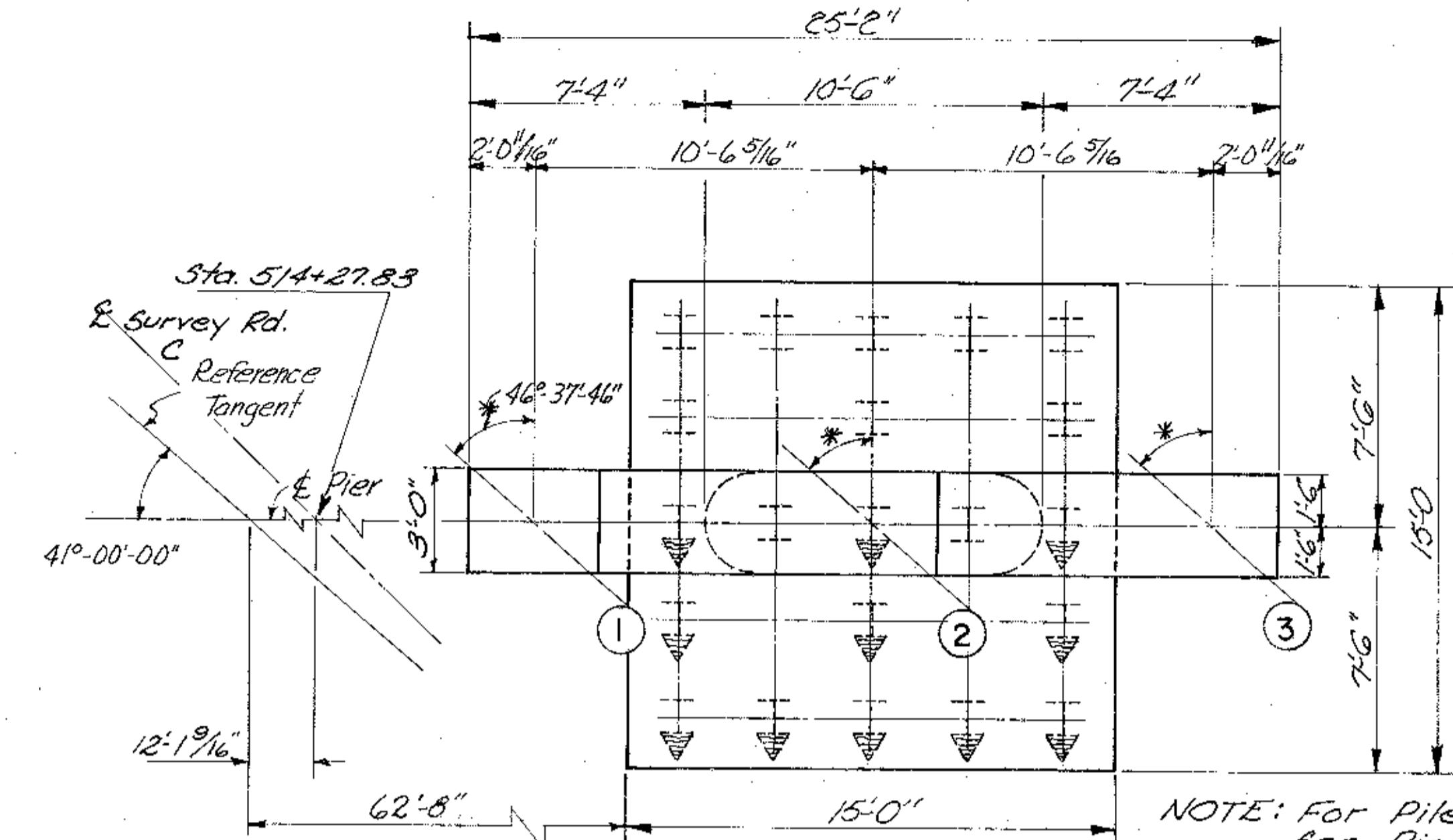
Leucostoma is a genus of fungi in the family Leucostomataceae.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY
FRA-70-12.31S

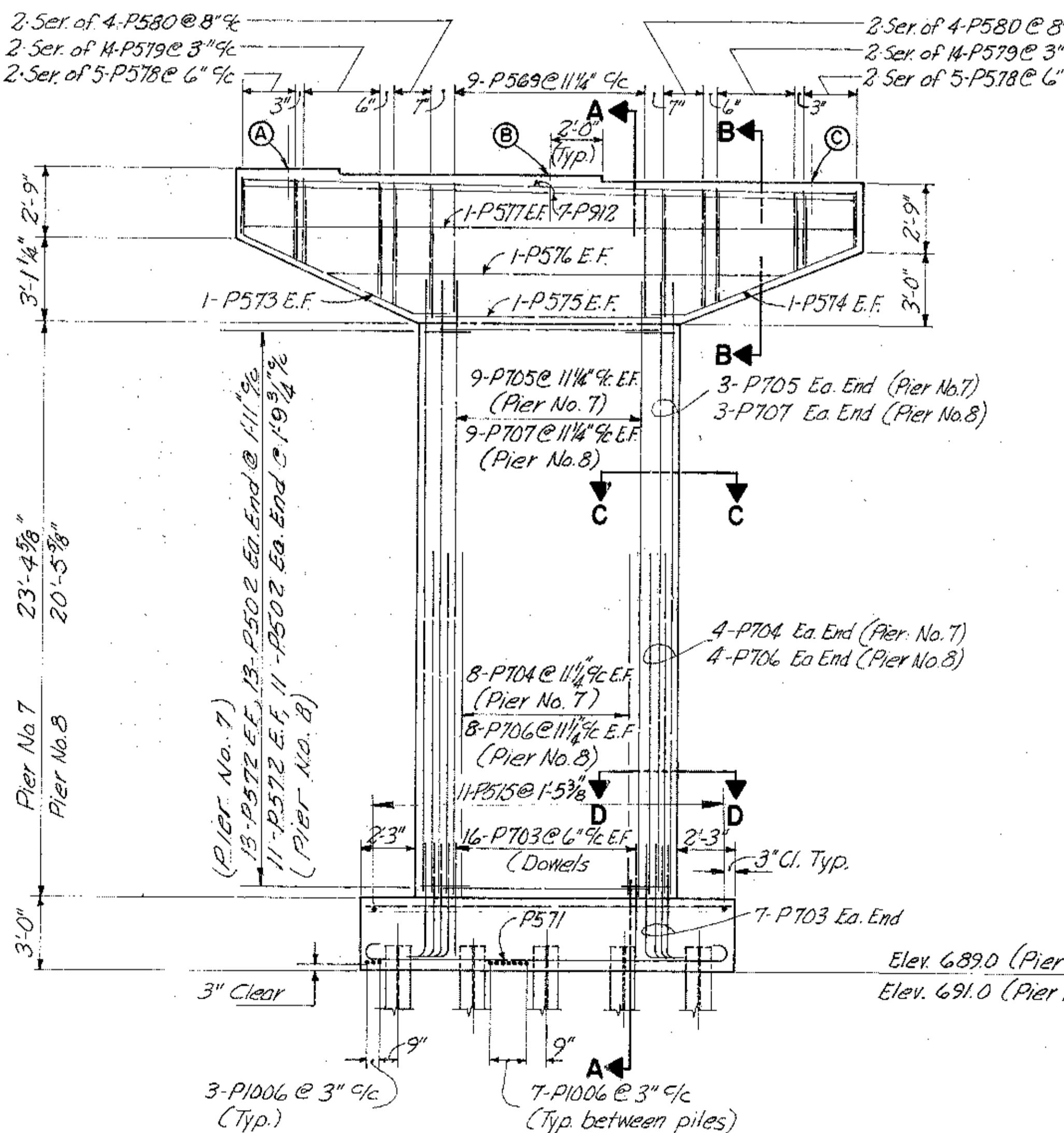


PLAN (PIER NO. 7)

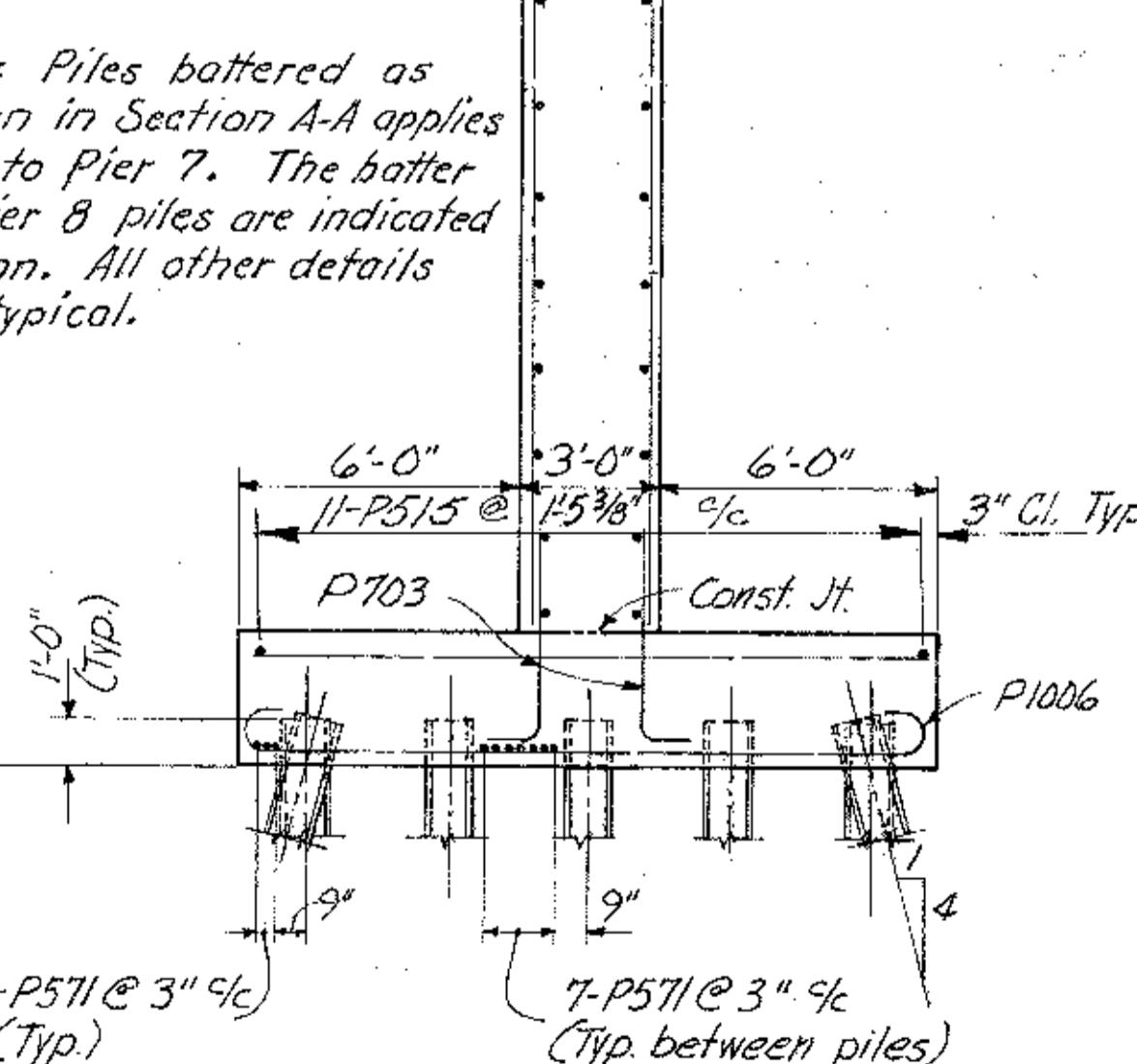


NOTE: For Pile Spacing
See Pier No. 7
Piles drawn battered 4:1.

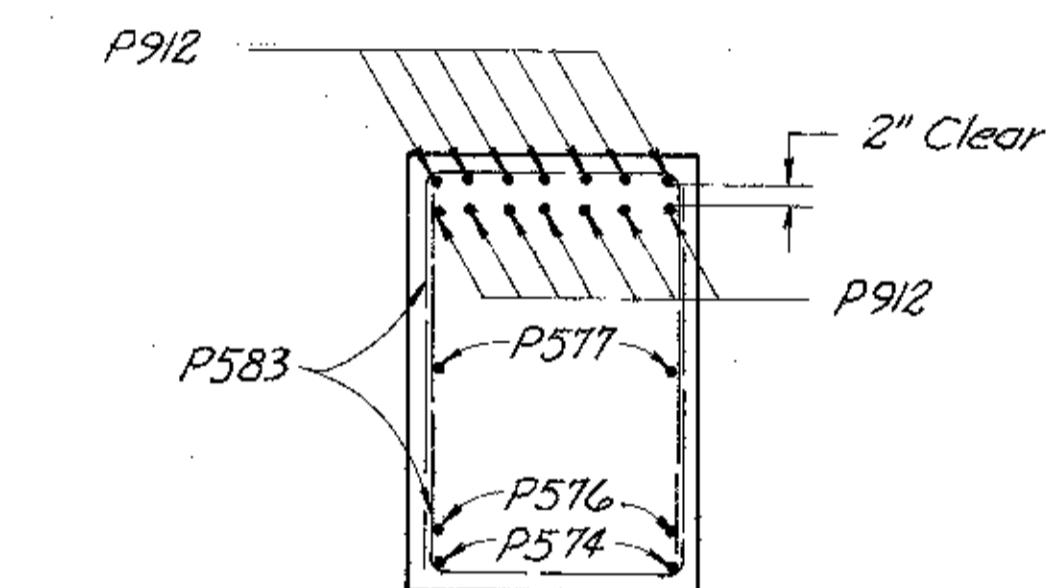
PLAN (PIER NO. 8)



ELEVATION (PIERS 7 & 8)

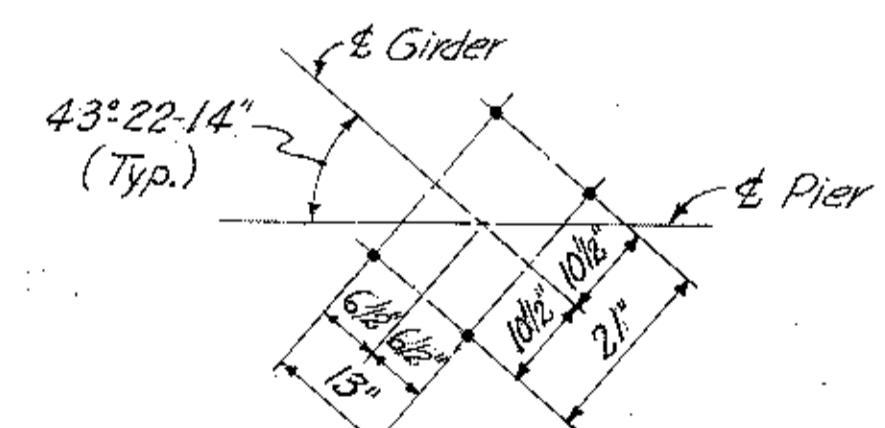


SECTION A-A



SECTION B-B

Note: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat (Pier No. 7) so as to avoid interference with the drilling of anchor bolt holes.



ANCHOR BOLT DETAIL
(PIER NO. 7)

ELEVATION TABLE			
PIER	A	B	C
NO. 7	721.24	721.19	721.14
NO. 8	720.32	720.27	720.22

Notes :
For additional notes
see sheet no. 12143

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