

Ref-316

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	U-732(8)

MONTGOMERY COUNTY
MOT. - 35-14.39

520

U-732(8)

Note: Project Designation MOT-35-14.39 Appearing Throughout This Plan Shall Be Considered To Read MOT-35-14.39.

LIMITED ACCESS

This improvement has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02, Revised Code of Ohio, and is especially designed for through traffic.

1967 SPECIFICATIONS

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 not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

- Approved J.R. Cooke
Date 7/20/66 Division Deputy Director
- Approved C.H. Altvater
Date 2-24-67 Engineer of Bridges
- Approved R.E. Battin
Date 2-24-67 Engineer of Location & Design
- Approved P.E. Hulst
Date 2-24-67 Deputy Director of Design & Construction
- Approved T.H. Board
Date 3-10-67 Deputy Director of Right of Way
- Approved Thomas M. Major
Date 3-13-67 Deputy Director of Planning & Programming
- Approved E.W. Wilson
Date 3-13-67 First Assistant Director
- Approved P.E. Meseliter
Date 3-13-67 Director of Highways
- Approved _____
Date _____ Director, Department of Service & Buildings, City of Dayton
- Approved _____
Date _____ City Manager, City of Dayton

STATE OF OHIO

DEPARTMENT OF HIGHWAYS

MOT - 35 - 14.39

CITY OF DAYTON

MONTGOMERY COUNTY

CONVENTIONAL SIGNS

Exist. Limited Access Line	— LA — LA —
Exist. Right of Way Line	— R/W — R/W —
Prop. Right of Way & Limited Access Line	— LA & R/W —
Prop. Right of Way Line	— R/W — R/W —
Prop. Limited Access Line	— LA — LA —
Section Line	— — — — —
Center Line or Base Line	— — — — —
Property Line	— — — — —
Guard Rail	— — — — —
Fence Line	Exist. Prop.
	Metal Wood
Trees & Stumps	12" 18" 24" Stump
Hedges	
Exist. Underground Utilities	Electric Gas Water Telephone Steam
	Existing Proposed
Manholes	Existing Proposed
Exist. Sewers	Existing Proposed
Prop. Sewers	Prop.
Inlets	Single Grate Double Grate Side Opening Combination
Utility	Power Telephone Telephone Light Guy Pole Traffic Light
Barrier Guard Rail	Prop.

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STRUCTURE OVER 20' SPAN

STRUCTURE OVER 20' SPAN	341-487, 487A, 488-491
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SEE SHEET NO. 30 FOR PLAN & PROFILE SHEET INDEX
SEE SHEET NO. 106 FOR CROSS SECTION LAYOUT
SHEET NOS. 239, 240, 241, 244, 242, 290 AND 291 WERE DELETED FROM PLANS

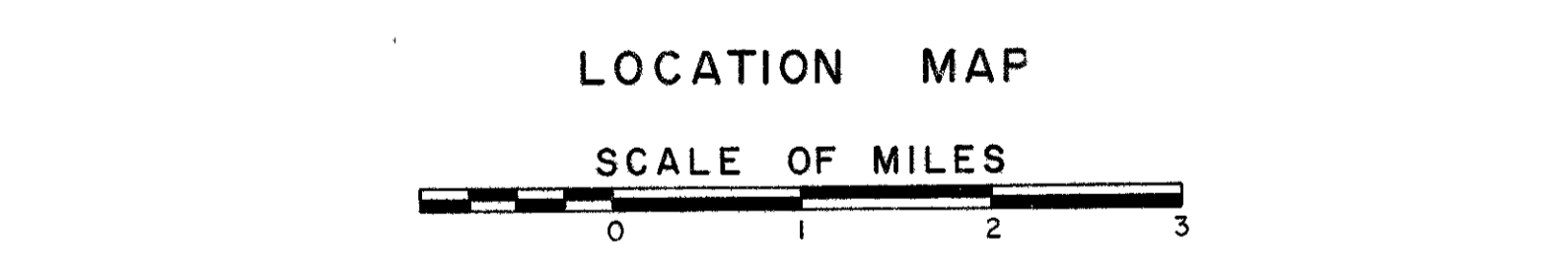
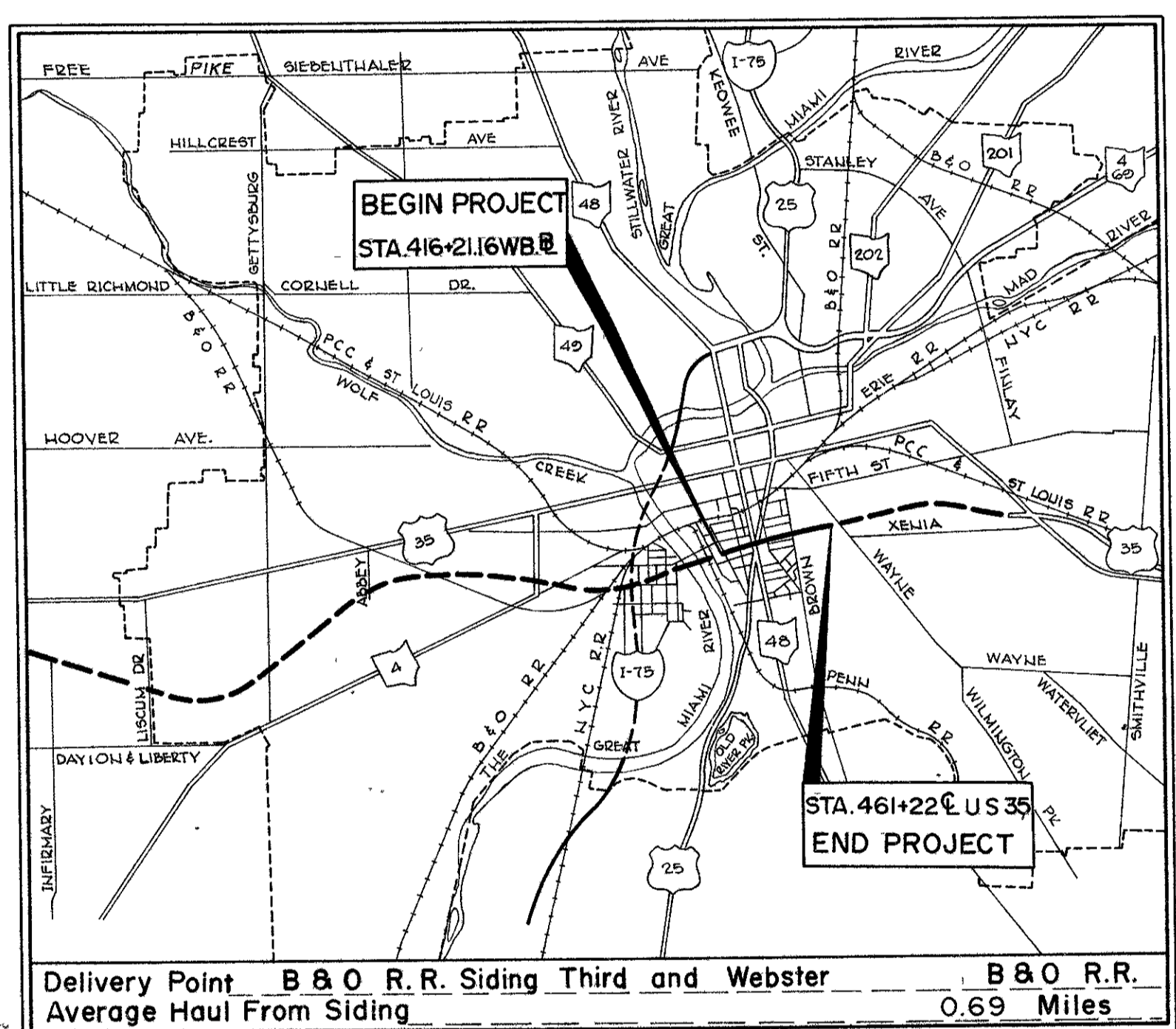
LINE DATA

SHEETS 342, 351, 364, 373, 376
Revised As-Drawn 377, 403, and 447
Revised As-Drawn

GFJ 8-13-71

Begin Project Sta. 416+21.16 W.B. @ U.S. 35	
Sta. Equation 459+08.75 W.B. @ U.S. 35 =	
458+81.77 @ U.S. 35	
End Project Sta. 461+22 @ U.S. 35	
Net Length of Project	4,527.82 Lin. Ft. or 0.857 Mile
Add for Work U.S. 35	
Sta. 461+22 @ U.S. 35 to Sta. 464+11 @ U.S. 35	289.00 Lin. Ft.
Add for Work Jefferson Street	
Sta. 1+75 to Sta. 17+00	1525.00 Lin. Ft.
Net Length of Work	6,341.82 Lin. Ft. or 1.201 Mile
Total Length of Project	4,527.82 Lin. Ft. or 0.857 Miles
Total Length of Work	6,341.82 Lin. Ft. or 1.201 Miles

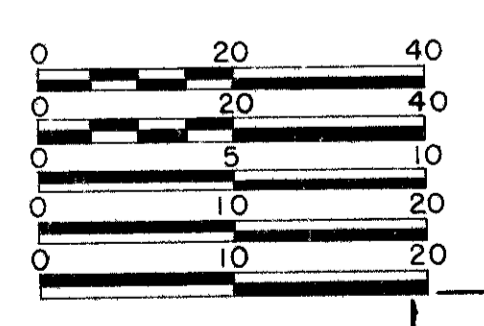
Sheets 300, 306, 307, 316, 317, 325, 327, 330 to 338 inclusive, 340, 342, 348, 353, 362, 353, 356, 410, 414, 420, 432, 438, 461, 467, 471 and 478 revised 7-10-67.
Sheet Nos. 368, 389, 405, 427, 435, 447, & 456 revised 7-21-67 EBL
Sheet Nos. 300 & 401 revised 7-31-67 EBL
Sheet Nos. 298 & 299 Revised 11-14-67 C.H.H.
Sheet No. 353 revised 1-26-68 EBL
Sheet No. 388, 391 & 392 revised 9-27-68 EBL
Sheet No. 404 revised 11-6-68 EBL



Portion to be improved	—————
Under Separate Contract	-----
State Roads	=====
Other Roads	=====

SCALE

Plan	1" = 20'
Profile Horizontal	1" = 20'
Profile Vertical	1" = 5'
Cross Sections Horizontal	1" = 10'
Cross Sections Vertical	1" = 10'



Supplemental Prints of Standard Construction Drawings

BP-1	6-1-65	CB-5	6-1-65	GR-6	6-1-65	MC-5	6-1-65	HL-4	1-1-66
BP-2	1-10-67	CB-6	6-1-65	HW-E	6-1-65	MC-6	6-1-65	GR-1	1-1-67
BP-3	1-10-67	CB-7	6-1-65	I-2A	6-1-65	MC-7	3-1-66	I-2	6-1-65
BP-4	1-10-67	F-1	6-1-65	L-1	6-1-65	NH-1	6-1-65	AS-1-54	8-10-65
BP-5	6-1-65	F-3	10-1-66	L-2	6-1-65	NH-1A	8-1-66	BR-1-65	11-24-65
BP-7	1-1-66			MC-1	6-1-65	NH-2	6-1-65	SD-1-65	11-8-65
CB-2-2A & B	6-1-65	FACI-1	6-1-65	MC-2	6-1-65	HL-1	11-1-65	RB-1-55	2-2-59
CB-3	6-1-65	FACI-2	6-1-65	MC-3	5-1-66	HL-2	11-1-65		
CB-3A	6-1-65	GR-2A	1-1-67	MC-4	6-1-65	HL-3	11-1-65		

Supplemental Specifications

806	1-1-67
927	1-1-67
801	1-1-67
811	1-1-67
815	1-1-67
816	8-6-65
814	1-1-67
808	1-13-67
825	1-1-67
828	1-1-67
1001	3-21-66

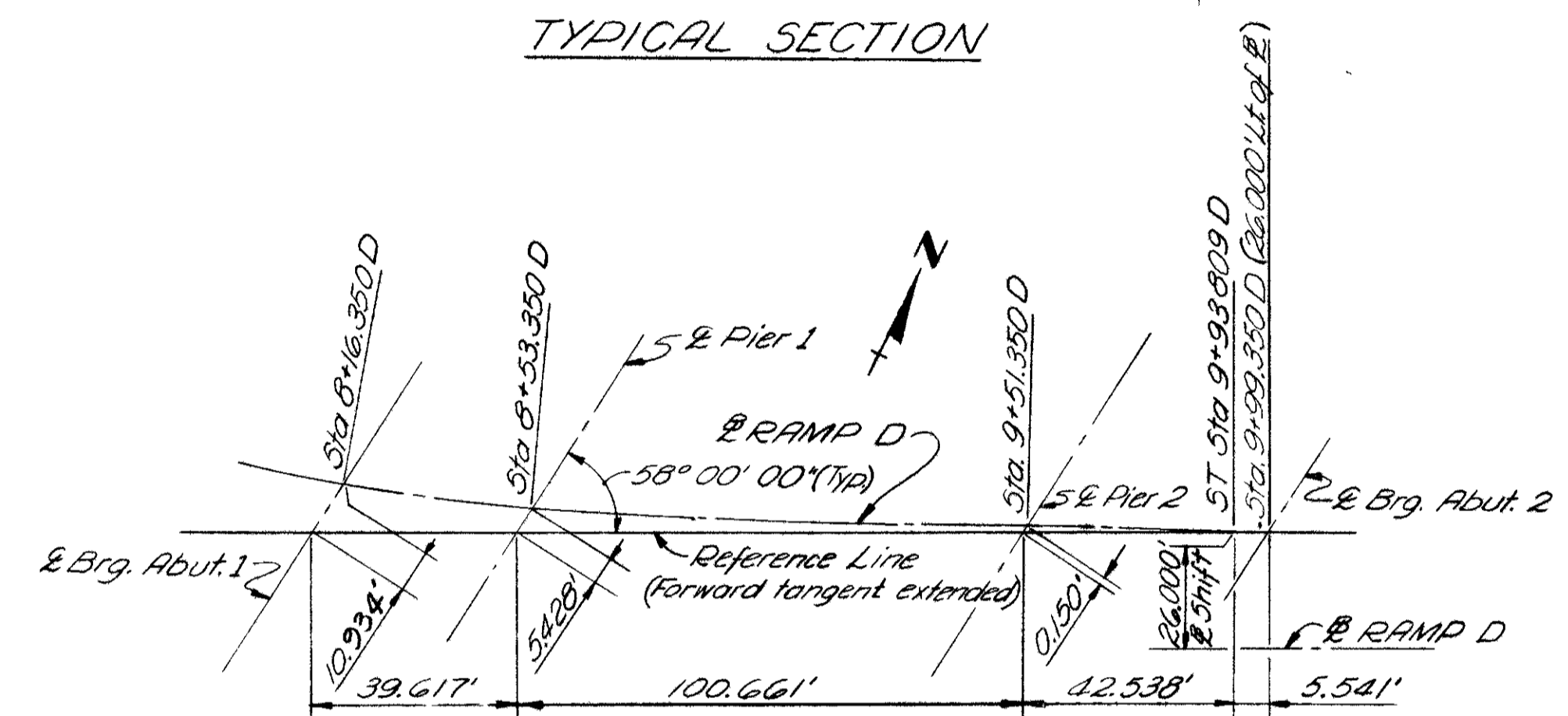
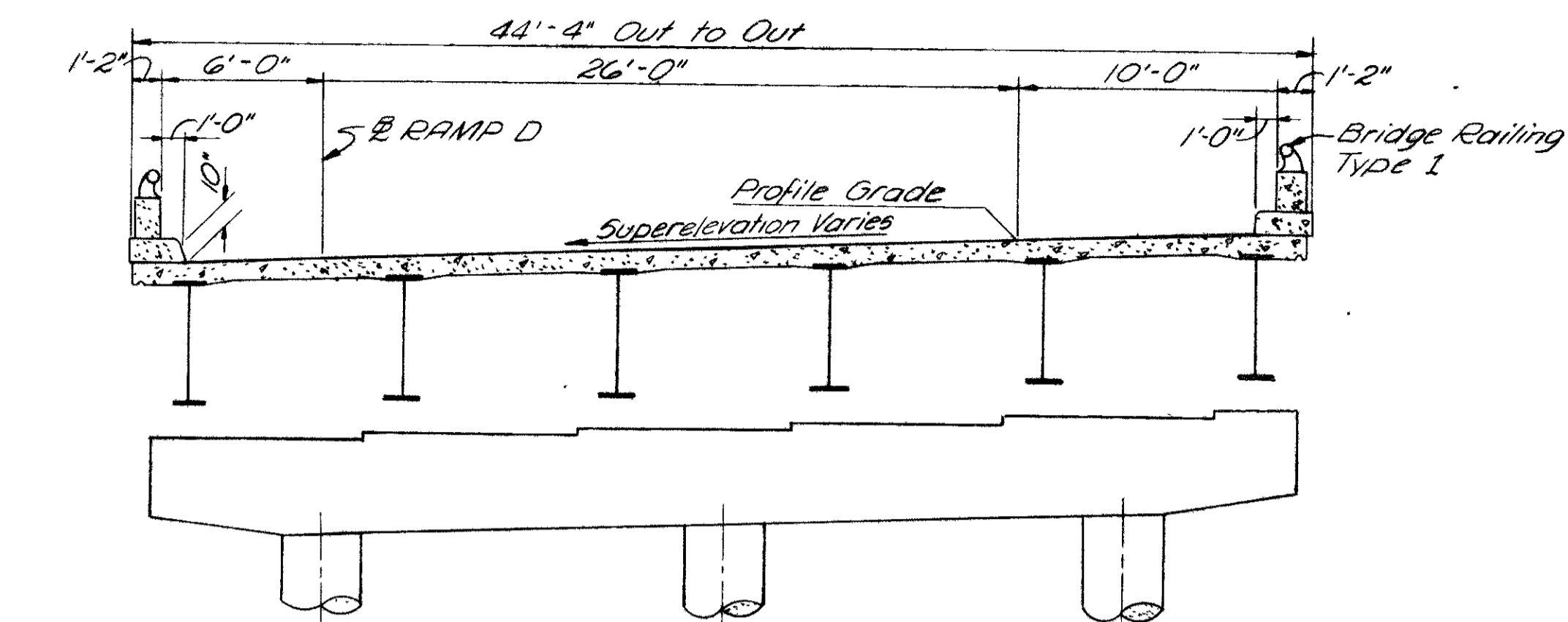
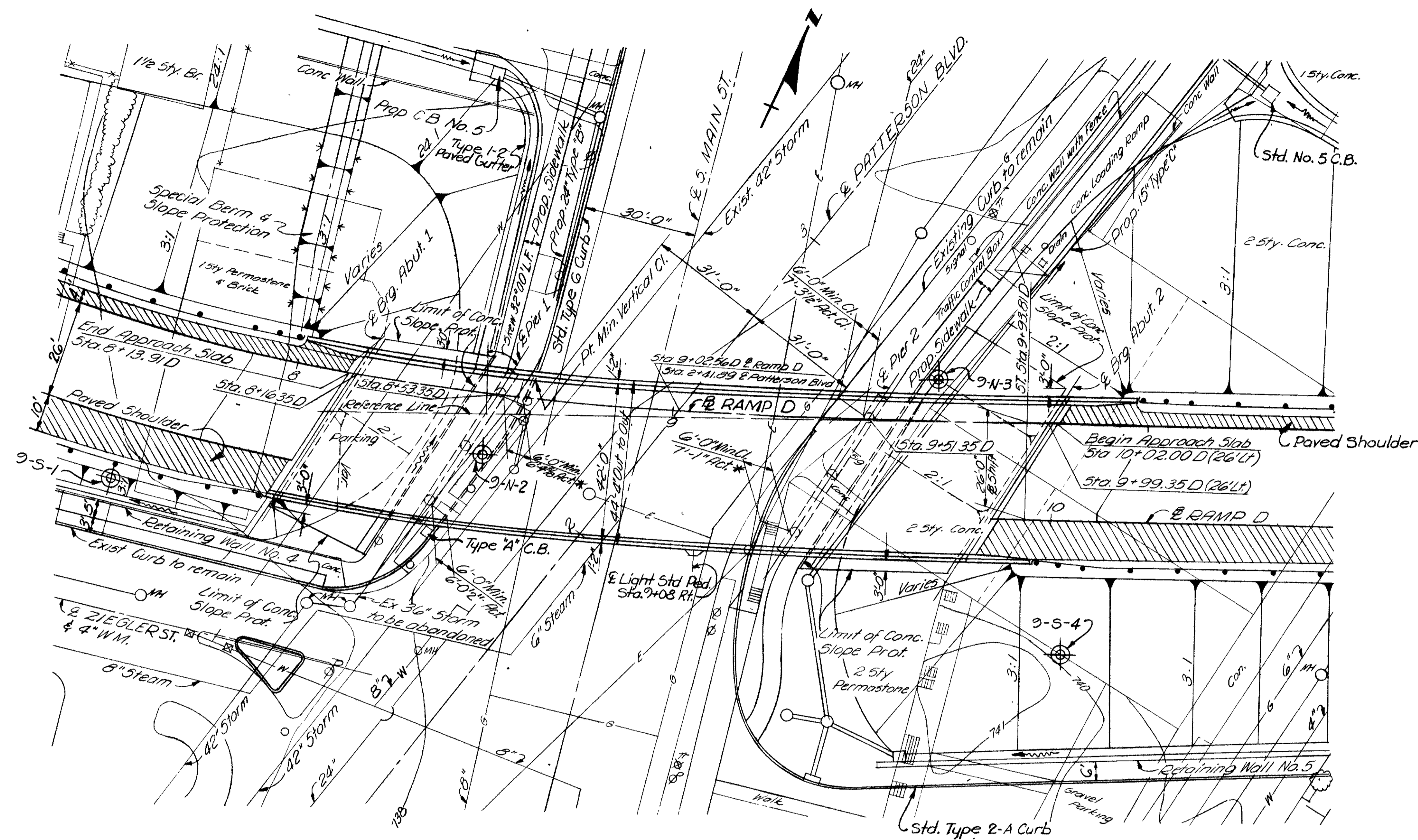
PREPARED BY
VOGT, IVERS & ASSOCIATES
ENGINEERS ARCHITECTS
CINCINNATI, OHIO CHICAGO, ILL.

DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC ROADS

APPROVED _____ DATE _____
DIVISION ENGINEER

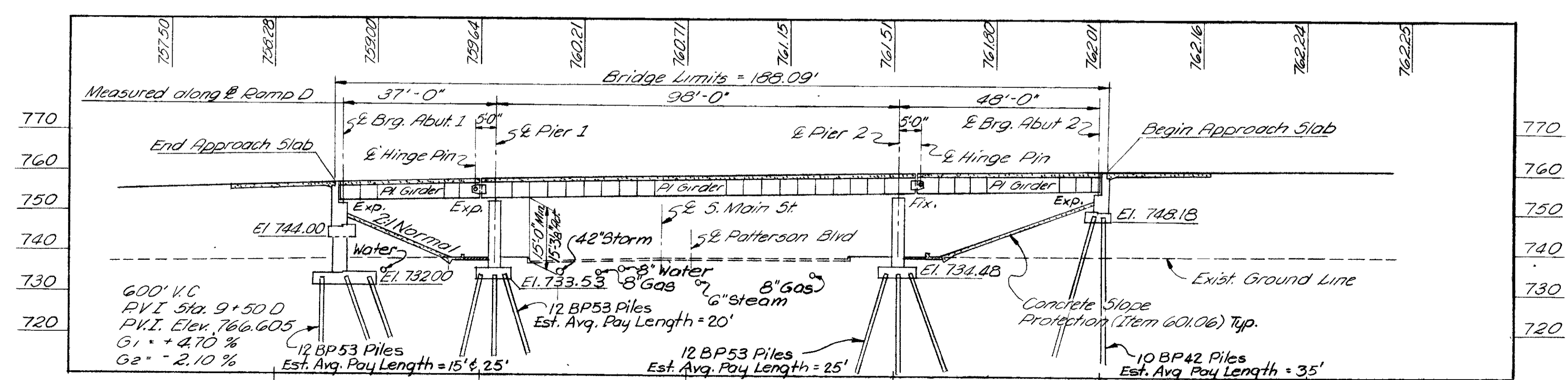
Rev. 5-3-67

File No.	MONTGOMERY COUNTY	MOT. - 35-14.39
Date of Letting	19 _____	
Contract No.	_____	



BENCH MARK #3 Elev. 738.70
Northwest corner of loading dock at northwest corner of Stanley Electric Co. Right of station 10+50t Patterson Blvd.

⊕ Denotes Drive Sample Boring
* 150' Sight Distance Provided.



PI Sta. 6+74.43 D
Δ = 96° 05' 15"
Dc = 20° 00' 00"
Rc = 286.48'
Lc = 130.44'
C.S. Sta. 6+43.81 D
ST. Sta. 9+93.81 D
Ls = 350.00'

PROPOSED STRUCTURE

TYPE: Cantilevered welded steel plate girder and simple span welded steel plate girder end spans with reinforced concrete deck and substructure.

SPANS: 37'-0", 98'-0", 48'-0"

ROADWAY: 42'-0" face to face of parapets

LOAD FREQUENCY: C.F. = 2000 (57)

SKREW: 32° 00' L.F.

WEARING SURFACE: 1" Monolithic concrete

APPROACH SLABS: A5-1-54 (25'-0" long)

ALIGNMENT: Spiral to the left and tangent

SUPERELEVATION: Varies

1980 DDHV = 1,208 V.R.H.

1960 ADT = 10,068 V.R.D.

SITE PLAN

RAMP D OVER PATTERSON BLVD. & S. MAIN ST.

MONTGOMERY COUNTY STA. 8+13.91 D to STA. 10+02.00 D (26' Lt.)

NOTE:
For Slope Protection Details, see Sh. 443

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVISIONS
AERIAL	D.J.W.	R.L.S.	B.B.S.	G.R.H.	

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPER-STRUCTURE	GENERAL	CHECKED BY & DATE
502	602	cu.yds.	Unclassified excavation					
505	lump sum	lump sum	First test pile	464	138			HLR 8-5-66
506	lump sum	lump sum	First pile test load (12 BP53)				lump	HLR 8-5-66
506	1	each	Subsequent pile test load				lump	C.F.L. 8-30-66
507	595	lin. ft.	Steel piles, (10 BP42)				7	C.F.L. 8-30-66
507	1125	lin. ft.	Steel piles, (12 BP53)	595				HLR 8-5-66
509	118,796.35	lbs.	Reinforcing steel	450	675			HLR 8-5-66
511	255	cu. yds.	Class "C" concrete, superstructure	17,793	25,666	75,337		HLR 8-5-66
511	59	cu. yds.	Class "C" concrete, piers above footings			255		HLR 8-5-66
511	156	cu. yds.	Class "E" concrete, abutments above footings		59			HLR 8-5-66
511	132	cu. yds.	Class "E" concrete, pier & abutment footings	156				HLR 8-5-66
512	16	lin. ft.	Premolded sealing strip	87	45			HLR 8-5-66
512	277,190	lbs.	Structural steel	16				HLR 8-5-66
514	277,190	lbs.	Field painting of structural steel			277,190		HLR 8-5-66
516	57	sq. ft.	1/2" Preformed expansion joint filler, AASHO M-156			277,190		HLR 8-5-66
516	101	lin. ft.	Preformed elastic joint sealer & lubricant adhesive, 705.11	57				HLR 8-5-66
517	422.91	lin. ft.	Bridge railing, type 1			101		HLR 8-5-66
518	51	cu yds.	Porous backfill	52.75		370.16		HLR 8-5-66
518	91	lin. ft.	6" Perforated Helical C.M.P., including specials, 707.06	51				HLR 8-5-66
518	155	lin. ft.	6" Non-perforated Helical C.M.P., 707.06	91				HLR 8-5-66
518	5	each	Scuppers including supports	155				HLR 8-5-66
601	451	sq. yds.	Concrete slope protection			5		HLR 8-5-66
625			See sheet 243 & 244 Lighting Summary				451	HLR 8-5-66
808	255	units	Water-reducing, set-retarding admixture			255		HLR 8-5-66
825	969	sq. yds.	Concrete surface treatment			946		HLR 8-5-66
828	90	lin. ft.	Joint sealer	43		90		HLR 8-5-66

Materials in the approach slabs are not included in the above estimated quantities.

GENERAL NOTES

REFERENCE shall be made to the following:
 Standard Drawings: BR-1-65, revised 11-24-65
 SD-1-65, dated 11-8-65
 AS-1-54, revised 8-10-65
 RB-1-55, revised 2-2-59
 Supplemental Specifications: 808, dated 1-13-67
 811, dated 1-1-67
 825, dated 1-1-67
 828, dated 1-1-67.

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 DATA:

Design Loading - CF 2000 (57)
 Concrete Class "C" - basic unit stress 1,333 p. s. i.
 Concrete Class "E" - basic unit stress 1,133 p. s. i.
 Structural Steel - ASTM A36 - basic unit stress 20,000 p. s. i.
 Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 p. s. i. Except spiral reinforcement may be plain Structural Grade with basic unit stress of 18,000 p. s. i.

EXCAVATION QUANTITY includes the removal of fill material required for construction of the abutments.

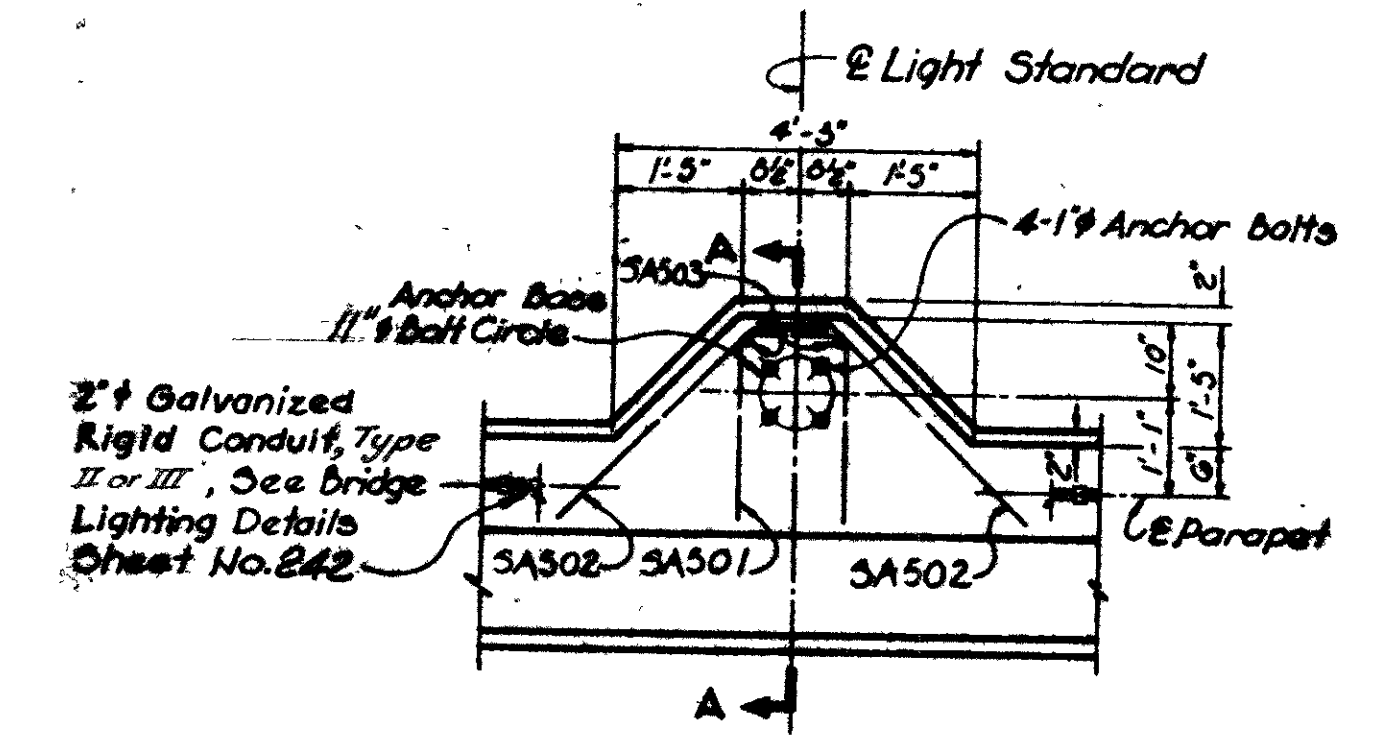
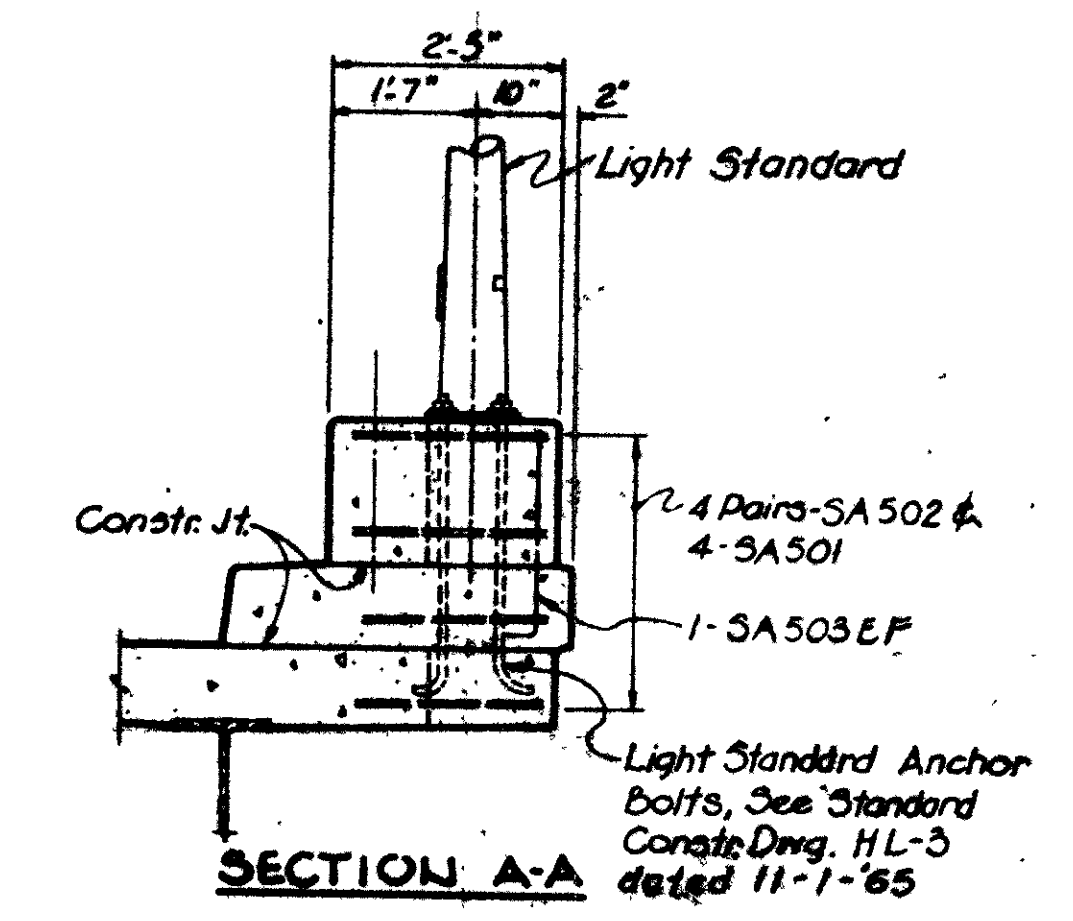
PILES shall be driven to a minimum bearing capacity of 35 tons per pile for Abutment 2 and 50 tons per pile for the Piers and Abutment 1.

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

UTILITY LINES: All expense involved in relocation (installing) the affected utility lines shall be borne by the owner(s). The Contractor and Owner(s) are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

MAINTENANCE AND PROTECTION OF TRAFFIC: Four lanes of traffic with a minimum horizontal width per lane of 10 ft. shall be maintained on S. Main Street at all times. A minimum vertical clearance of 12'-9" shall be provided at all times.

FIRST TEST PILE. Payment will be made for only one first test pile, item 505. It may be driven at either Br. No. Ramp D over Patterson Blvd. and So Main St. or Retaining Wall 4.



LIGHT STANDARD PEDESTAL

Note: For Additional Details See Bridge Lighting Details Sheet No. 242
 The 1" Anchor Bolts shall be included under item 625 for payment.

VOGT, IVERS, & ASSOCIATES
 ENGINEERS ARCHITECTS
 CINCINNATI CHICAGO

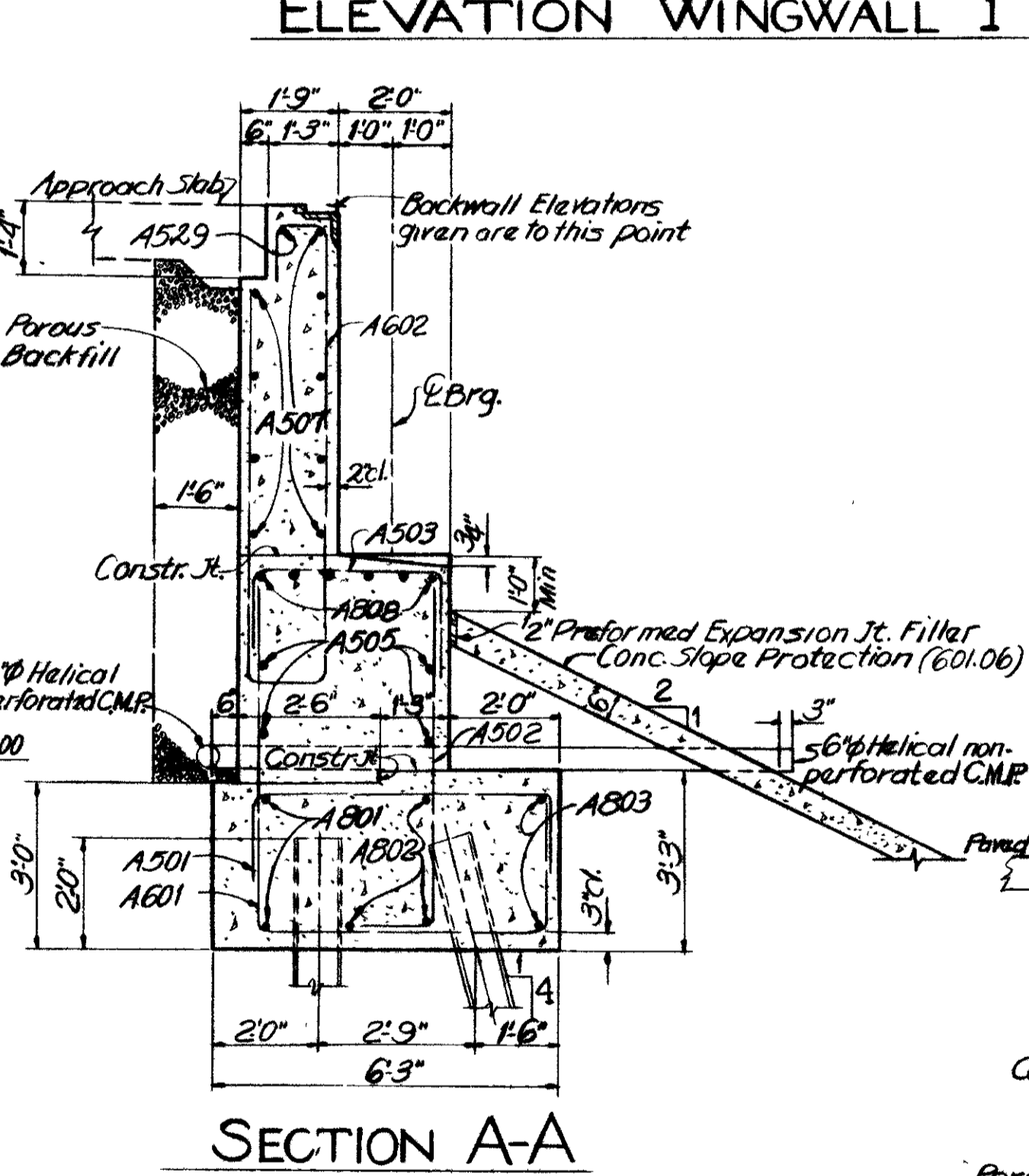
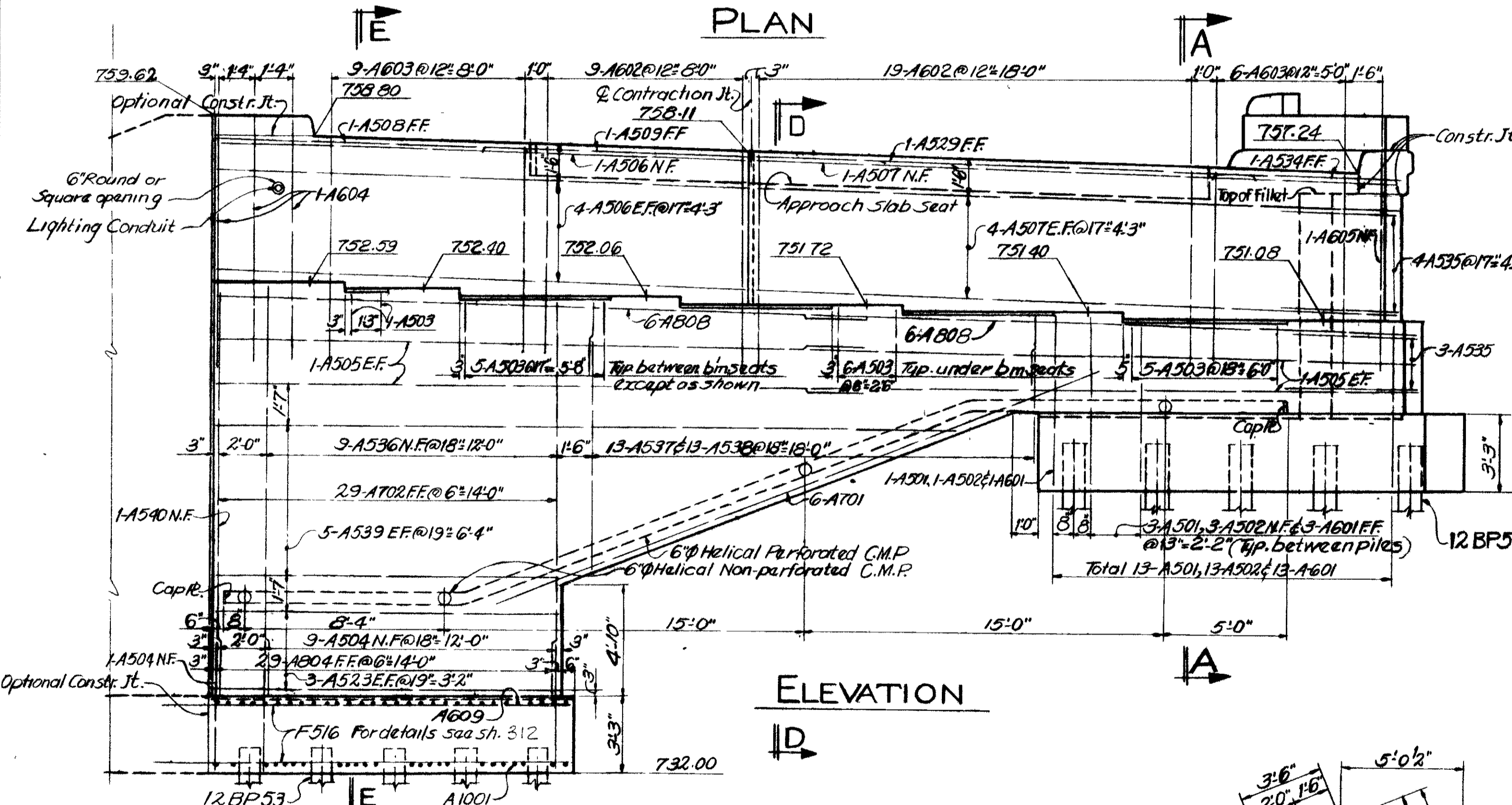
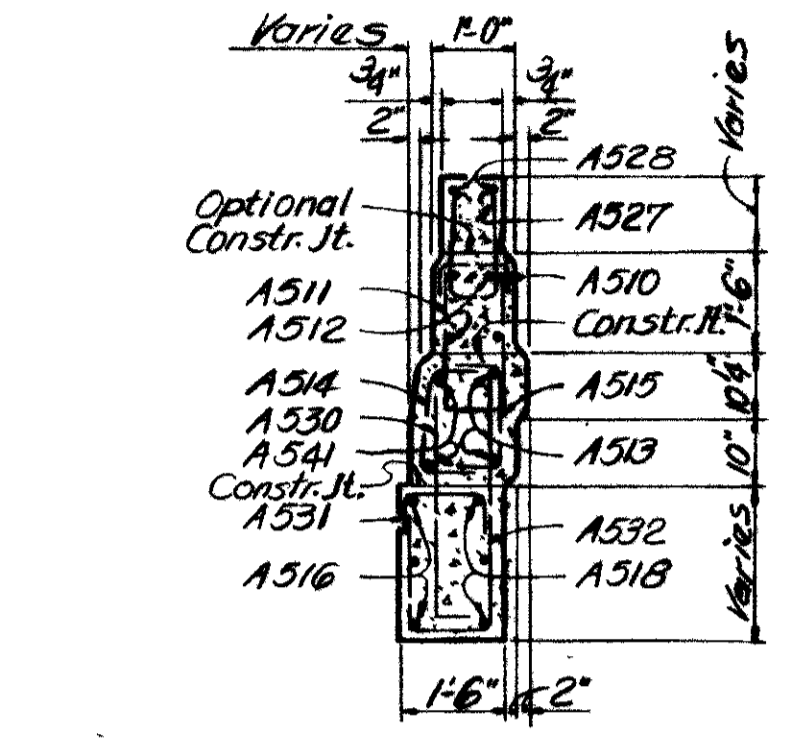
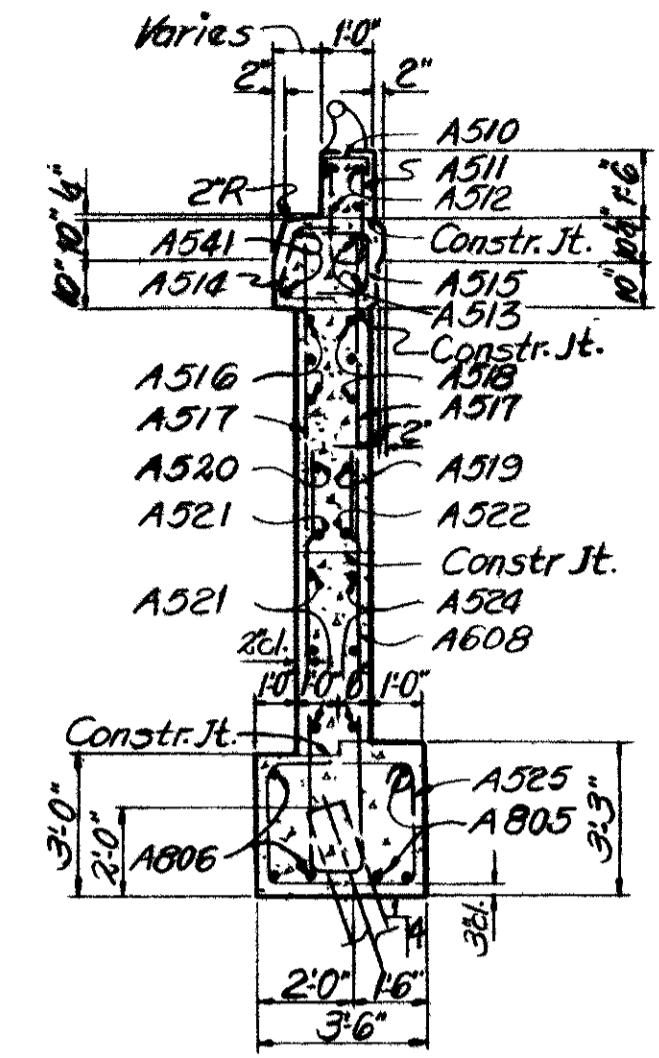
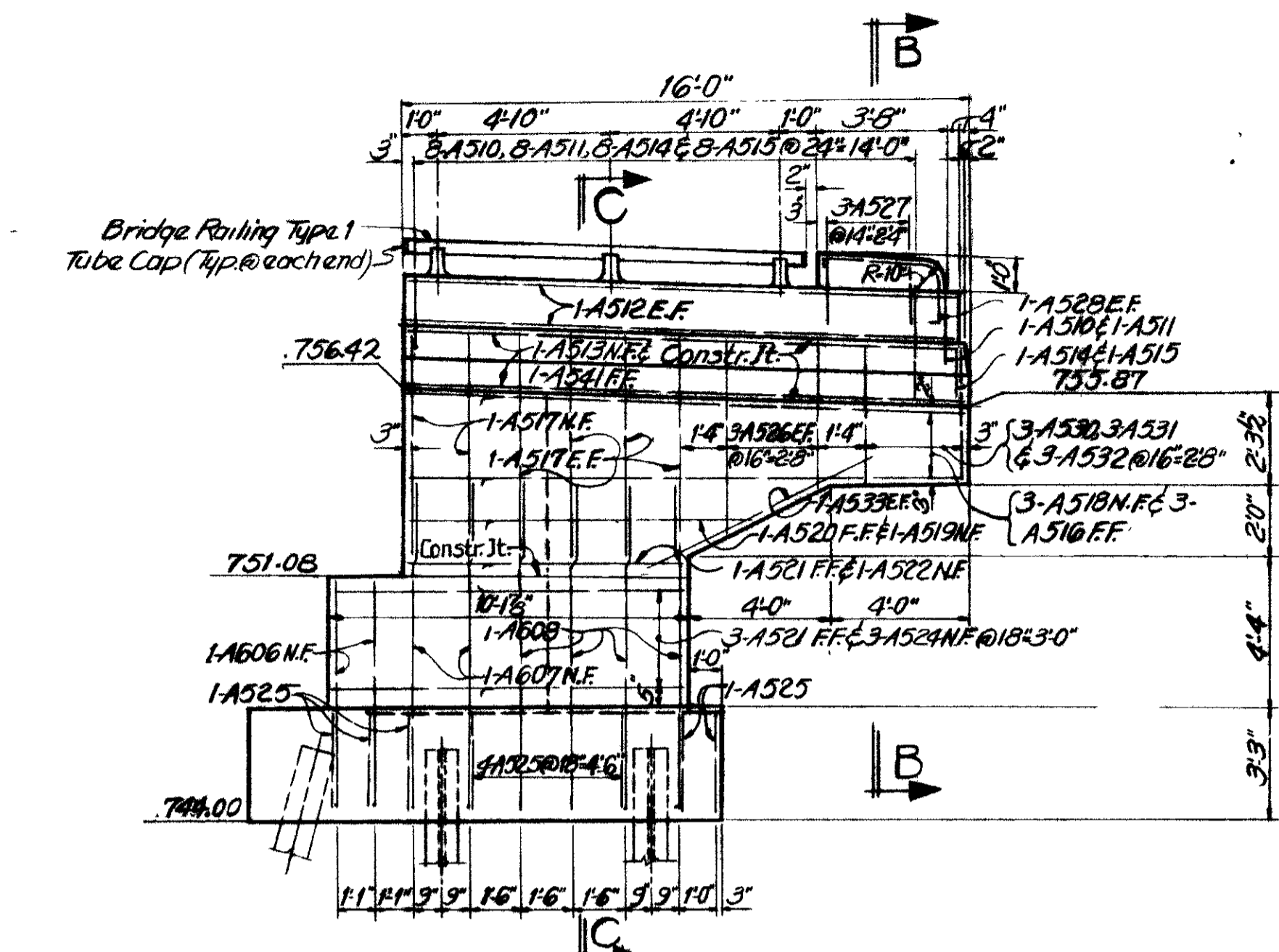
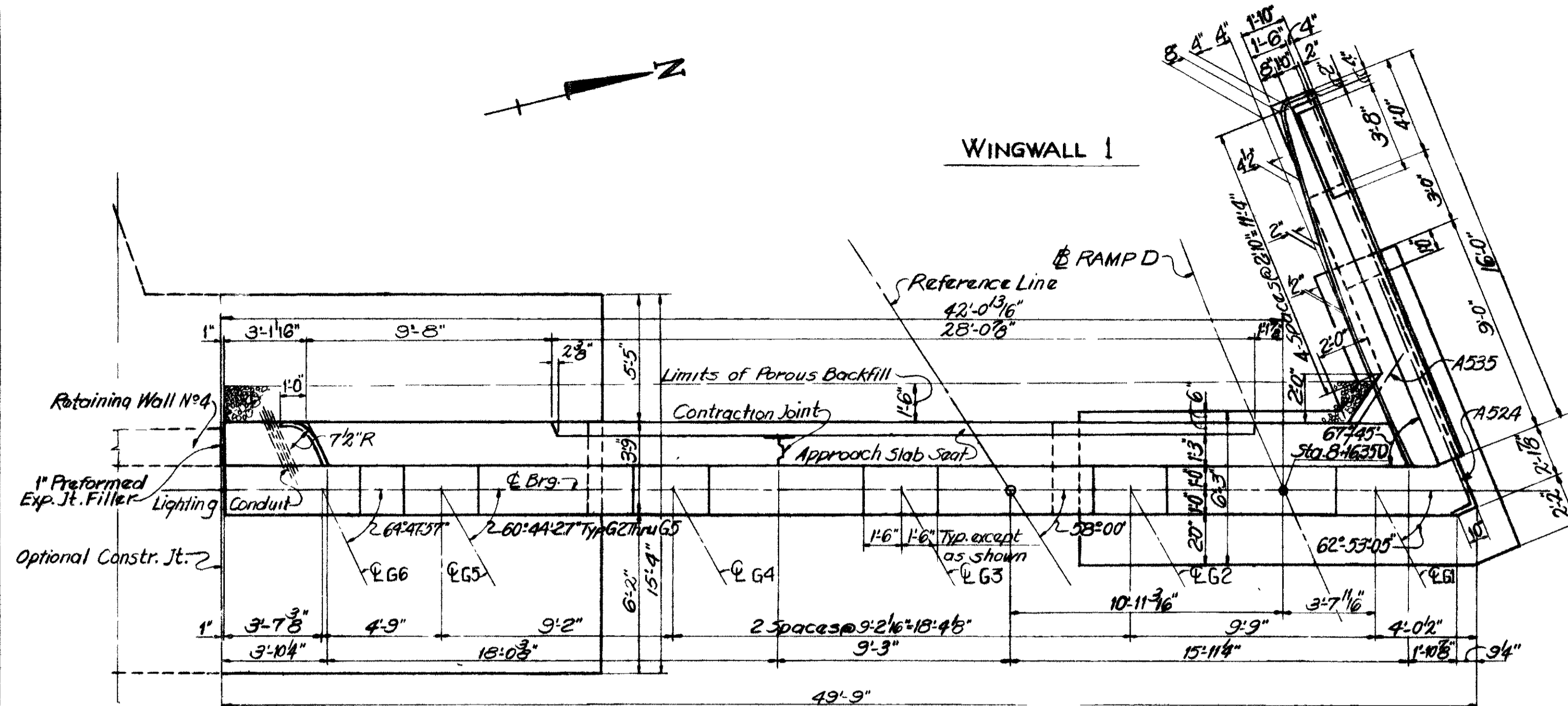
ESTIMATED QUANTITIES & GENERAL NOTES

RAMP D OVER
 PATTERSON BLVD & S. MAIN ST.
 MONTGOMERY COUNTY STA. 8 + 10.91 D To
 STA. 10 + 02.00 D (26' LT.)

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
R.D.U.	A.W.	~	C.F.L.	J.A.D.	8-19-66	7-2-66

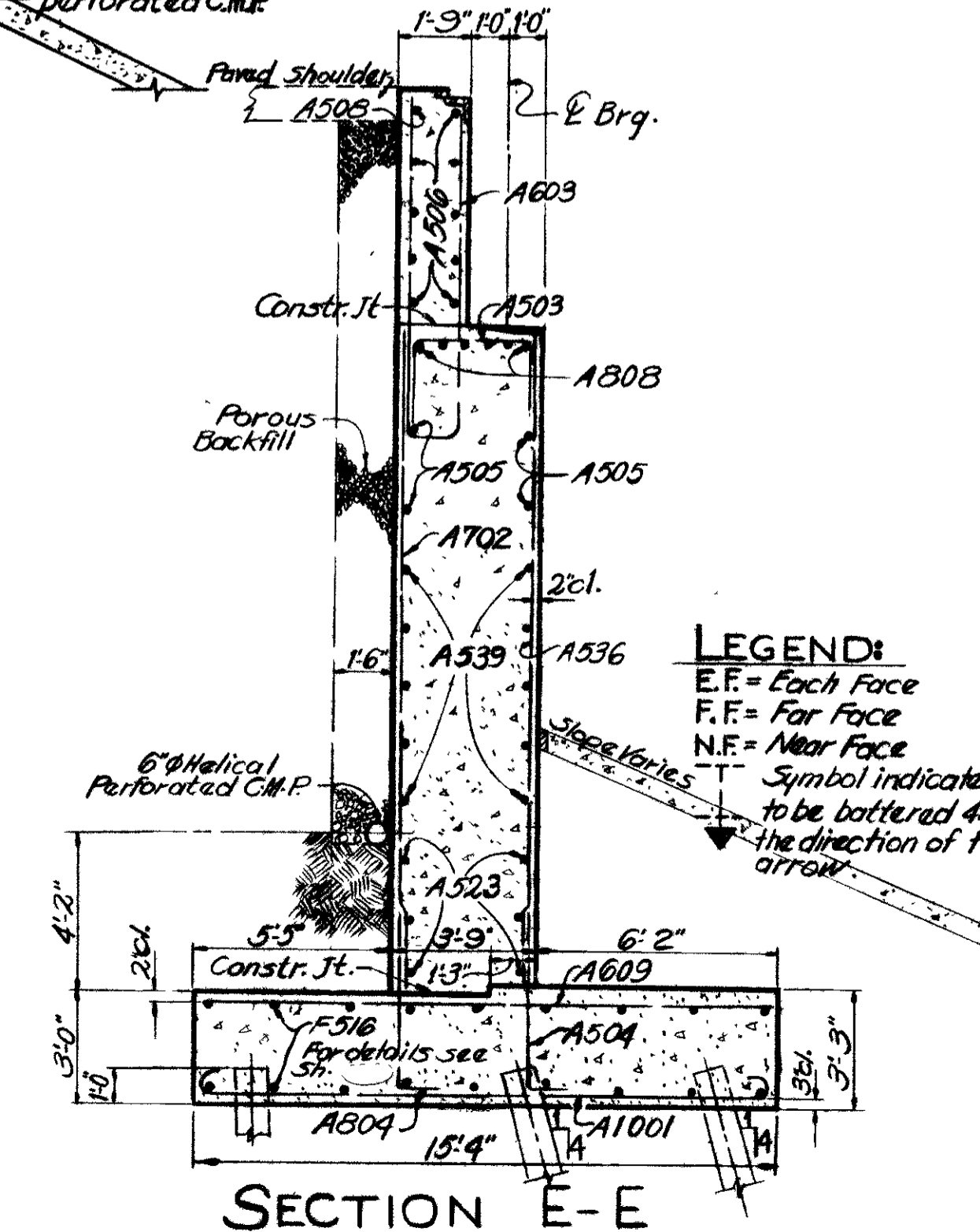
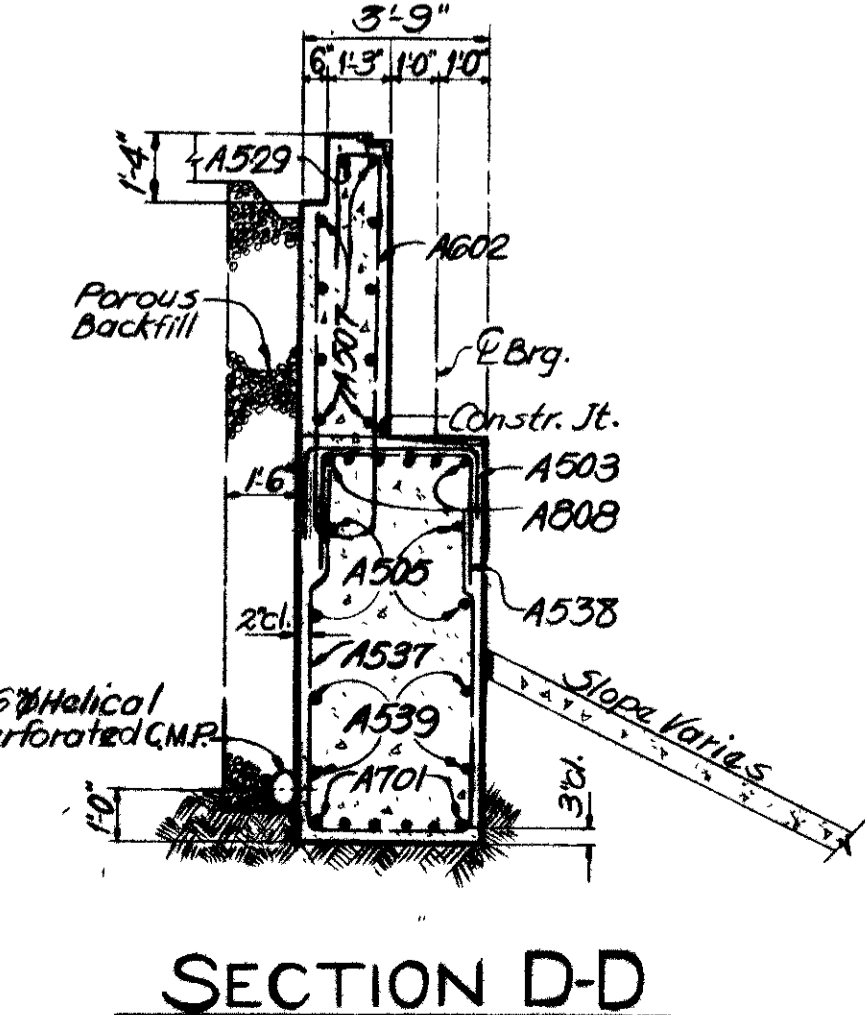
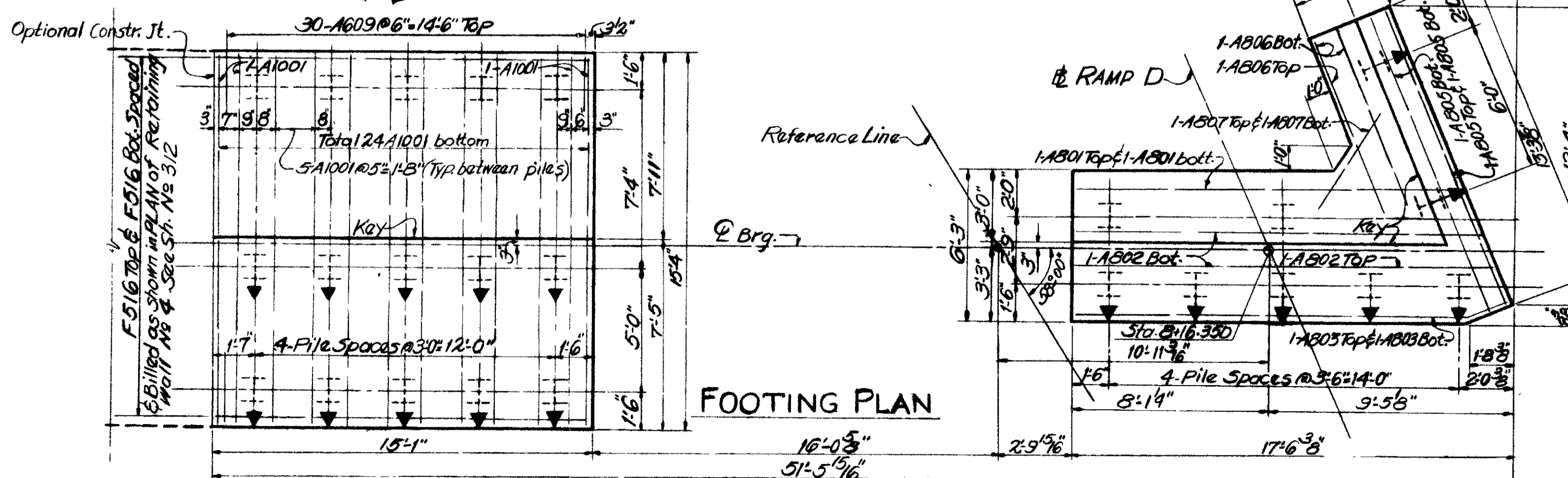
435
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MOT-35-1452



- NOTES:**
- Porous backfill shall not be placed above the level of the embankment in front of the abutment before the front embankment is in place and compacted to final grade lines.
 - The embankment shall be placed and compacted up to the finished spill-thru slope for a distance of 200 ft. back of the abutment's, after which excavation shall be made for the abutment's and piles driven.
 - Porous backfill 16" thick and full length of the abutment shall extend up to the bottom of the approach slab or the paved shoulder. Excavation therefor in excess of that required for construction of the abutment shall be considered as paid for in the bid price per cubic yard paid for porous backfill length of wingwall.
 - Bridge railing shall be continuous for full length of wingwall.
 - Parapet concrete shall be included under Item 517 for payment.
 - For Reinforcing Steel List, see Sh. 438.
 - For end dm details, see Std. DWg. SD-1-65, Sh. 1 & 2 of 3.
 - For Contraction Jt. detail, see Sh. 434.
 - 1" Preformed Expansion Joint Material at junction of abutment backwall & Retaining Wall No. 4 is included with bridge quantities for payment.
 - For Lighting details, see Sh. 242.
 - For Reference Line Layout, see Sh. 431.

LEGEND:
E.F. = Each Face
F.F. = Far Face
N.F. = Near Face
Symbol indicates pile to be battered 4:1 in the direction of the arrow.



**ABUTMENT 1
RAMP D OVER
PATTERSON BLVD. & MAIN ST.
MONTGOMERY COUNTY STA. 8+15.91 D TO
STA. 10+02.00 D (26' LT.)**

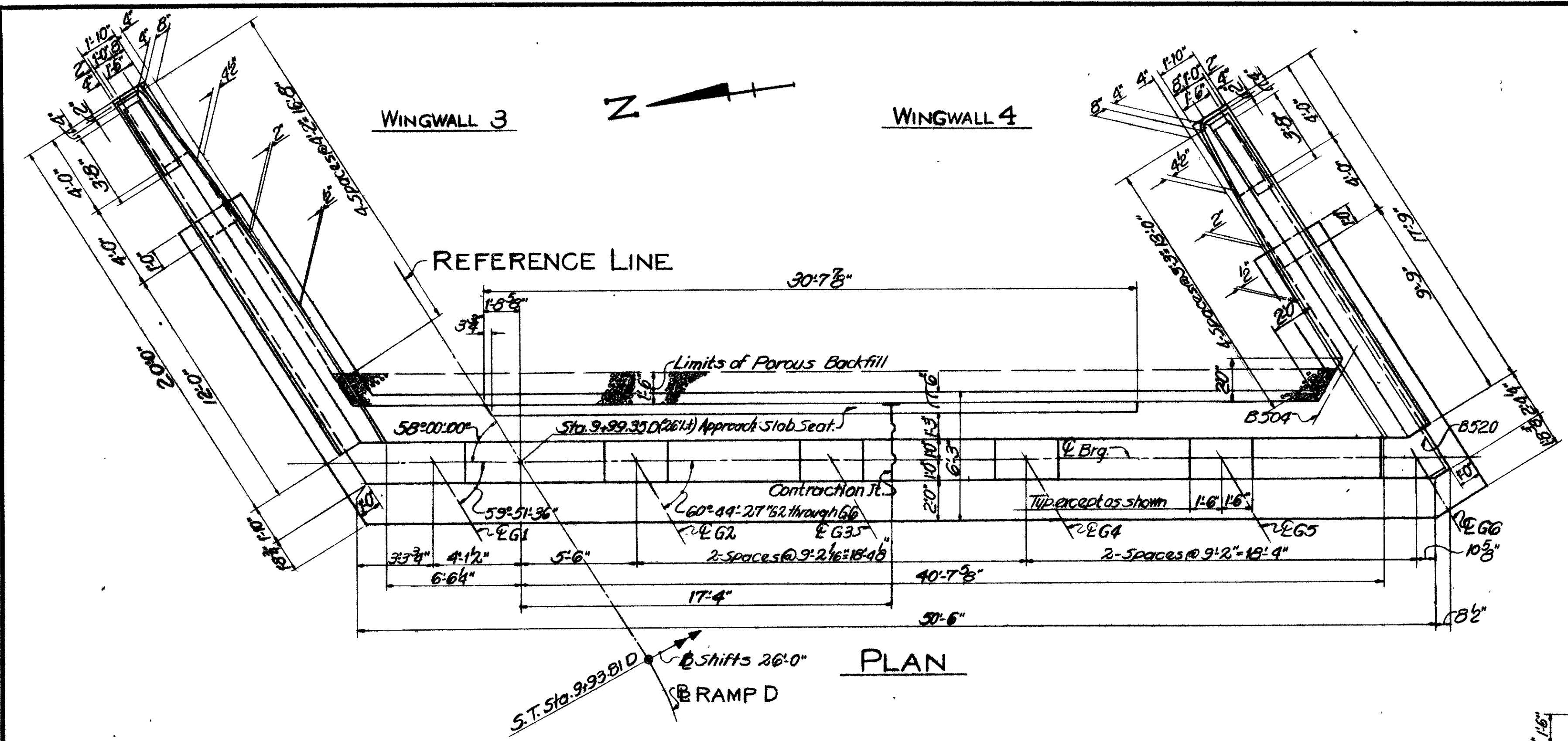
VOGT, IVERS, & ASSOCIATES
ENGINEERS ARCHITECTS
CINCINNATI CHICAGO

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RL SHAG				J.A.D. 8-19-66	

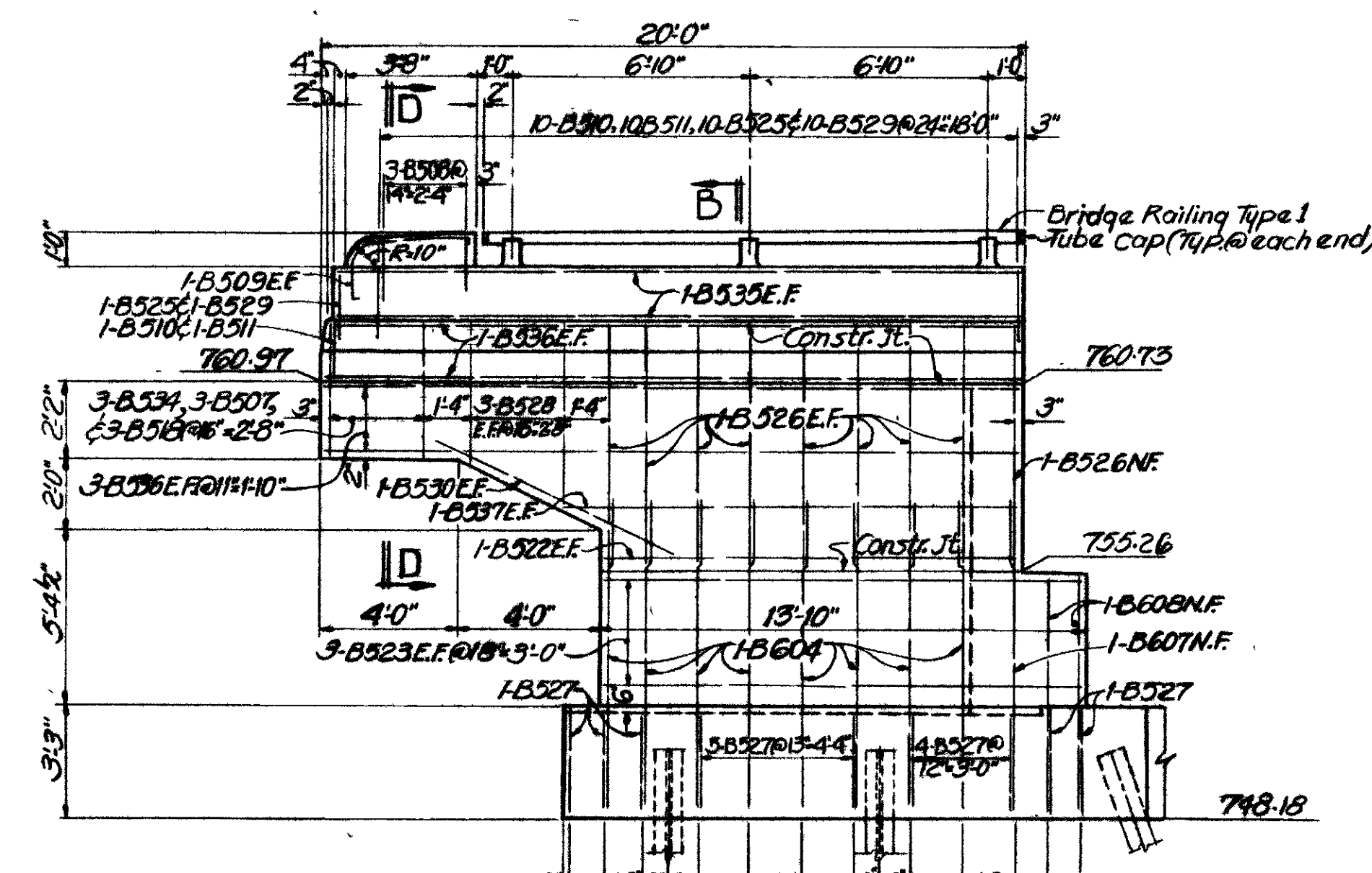
FED. NO. DIVISION	STATE	PROJECT
2	OHIO	

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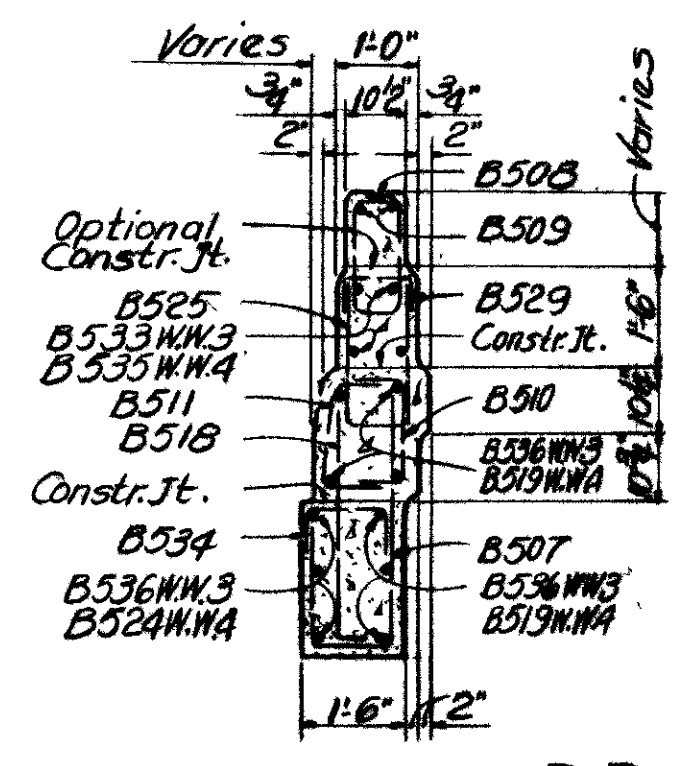
MOT-35-14.52



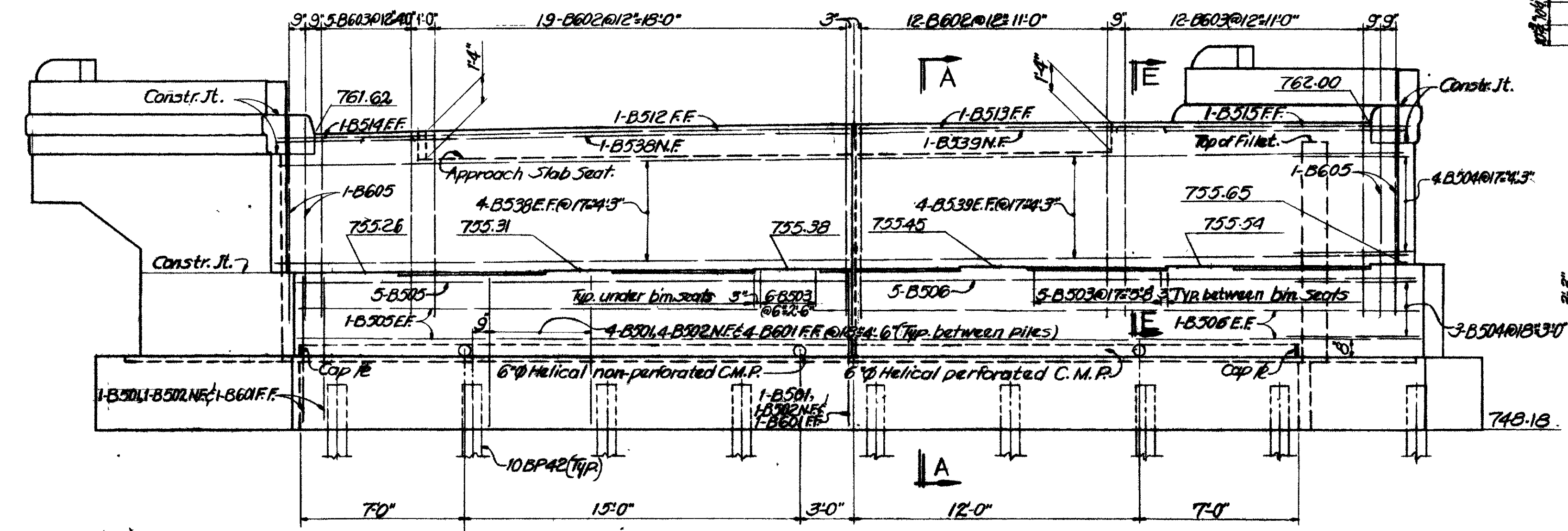
PLAN



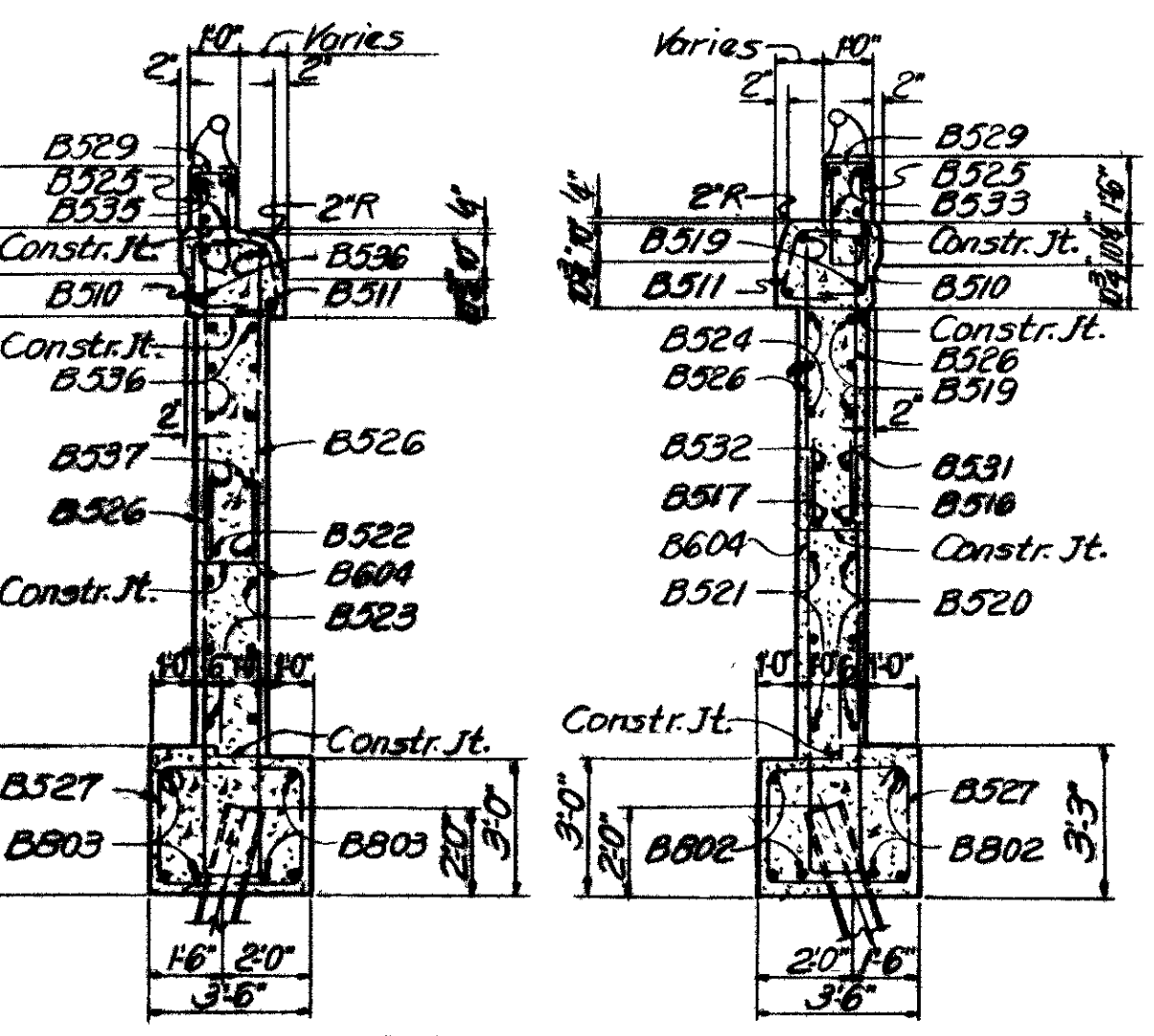
ELEVATION WINGWALL-3



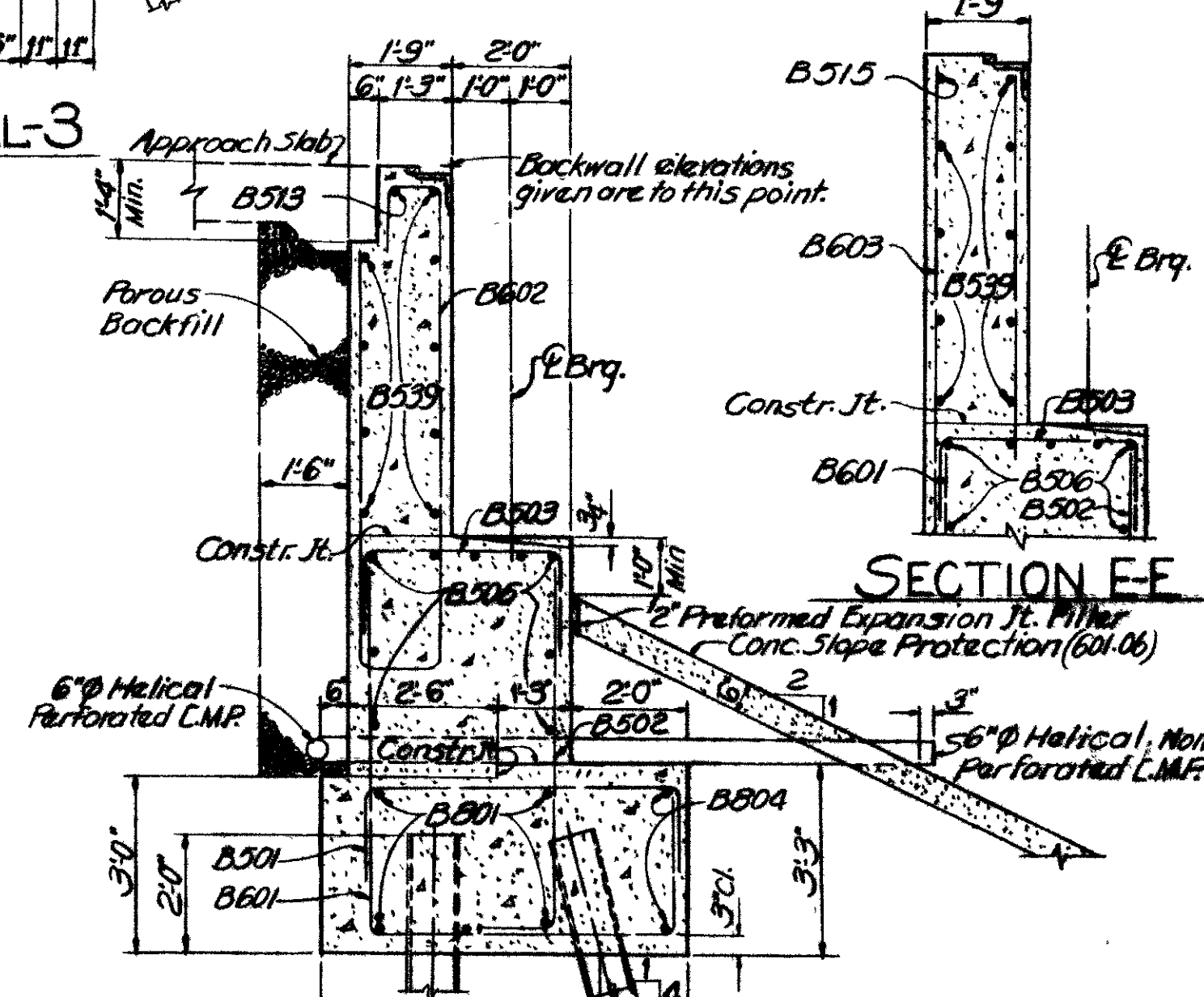
SECTION D-D



ELEVATION

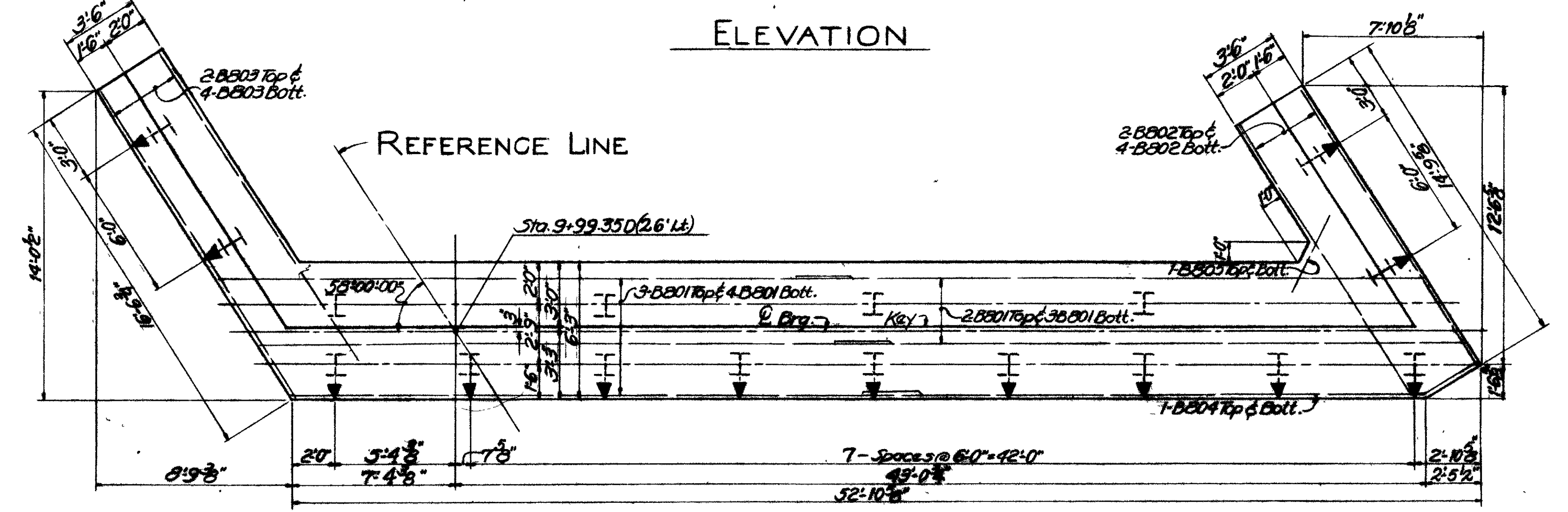


SECTION B-B SECTION C-C

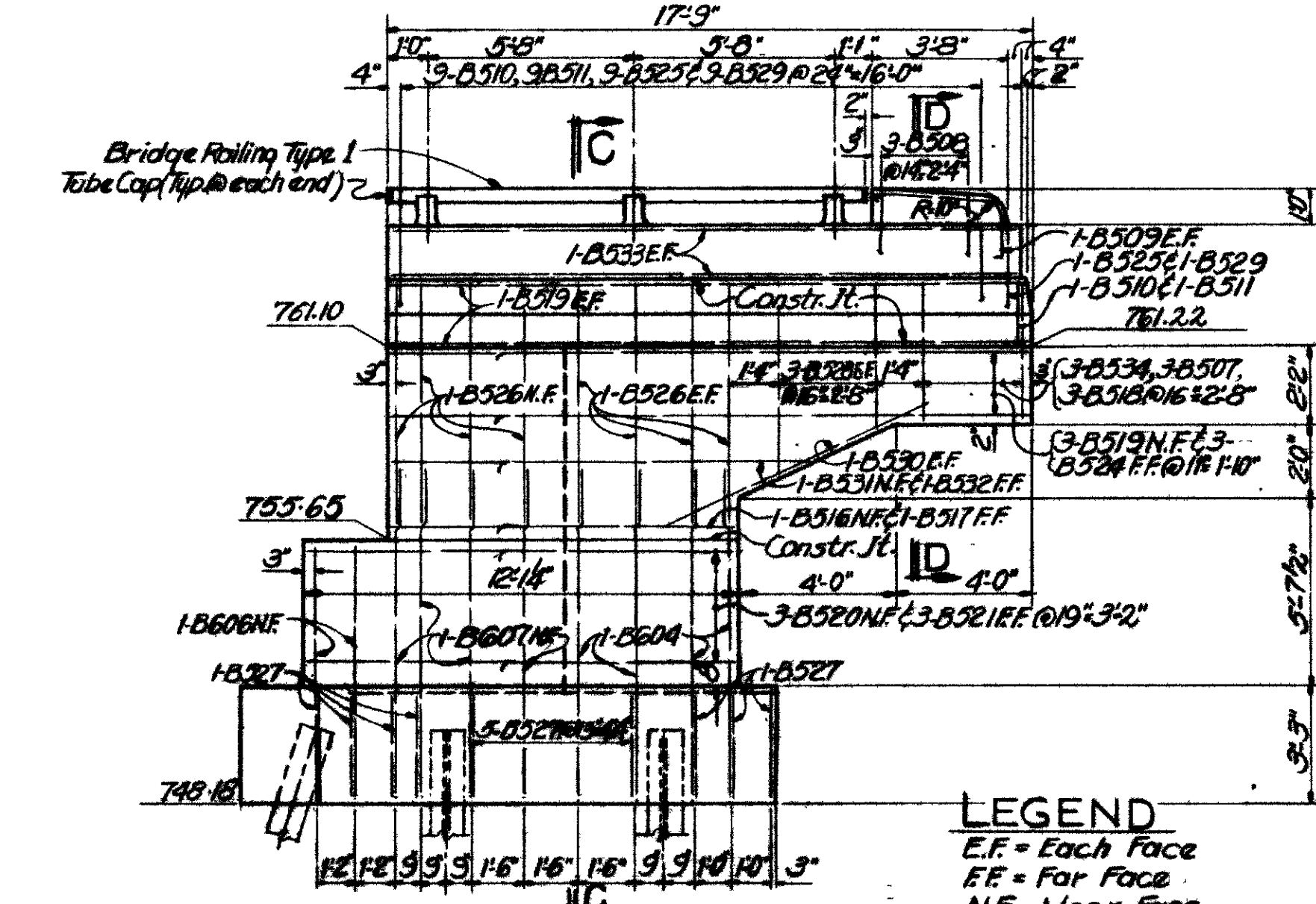


SECTION A-A

NOTE
For Notes, see Sh. 433

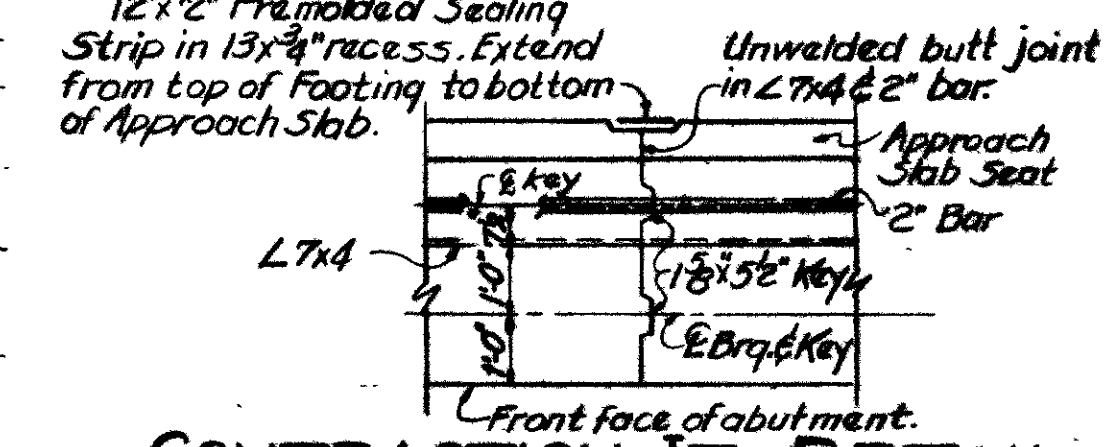


FOOTING PLAN



ELEVATION WINGWALL-4

LEGEND
E.F. = Each Face
FF = Far Face
N.F. = Near Face
Symbol indicates pile to be battered 1/4 in the direction of the arrow.



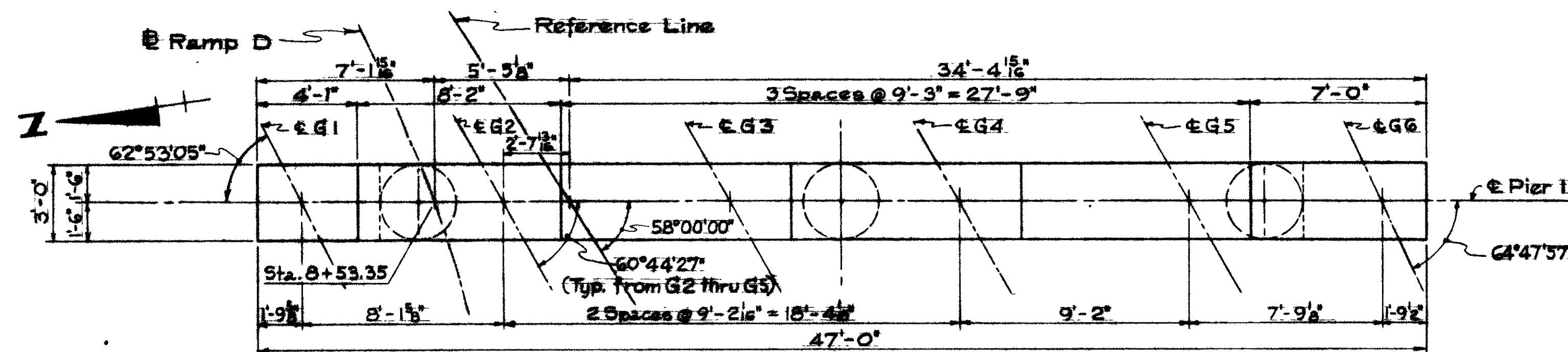
CONTRACTION JT. DETAIL

VOGT, IVERS, & ASSOCIATES ENGINEERS ARCHITECTS CINCINNATI CHICAGO			
ABUTMENT 2			
RAMP D OVER PATTERSON BLVD & MAIN ST. MONTGOMERY COUNTY STA. B+13.01 D STA. 10+02.00 D (26' LT.)			
DESIGNED GR.H. HAG	DRAWN J.I.S.	TRACED J.A.D. B-15-66	CHECKED J.A.D. B-15-66

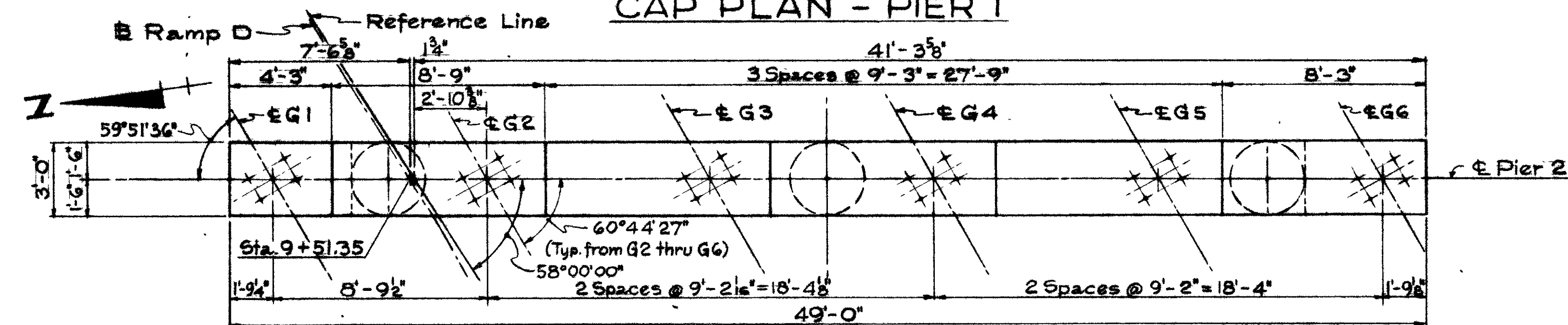
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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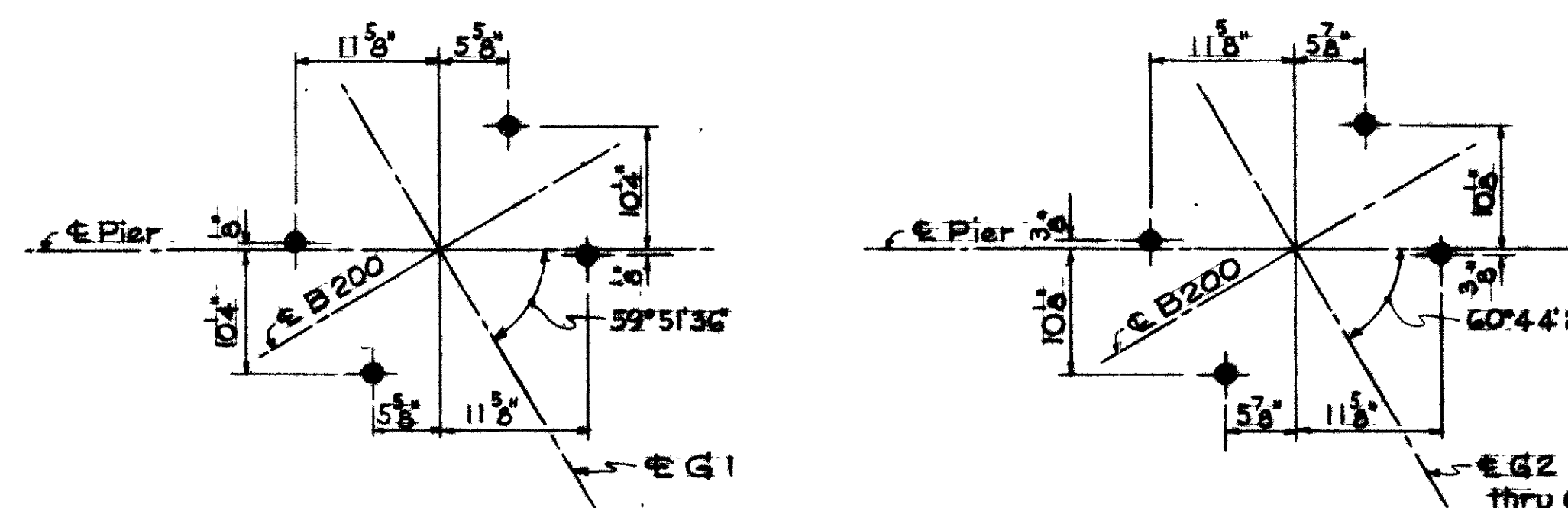
MOT - 35-14.52



CAP PLAN - PIER 1

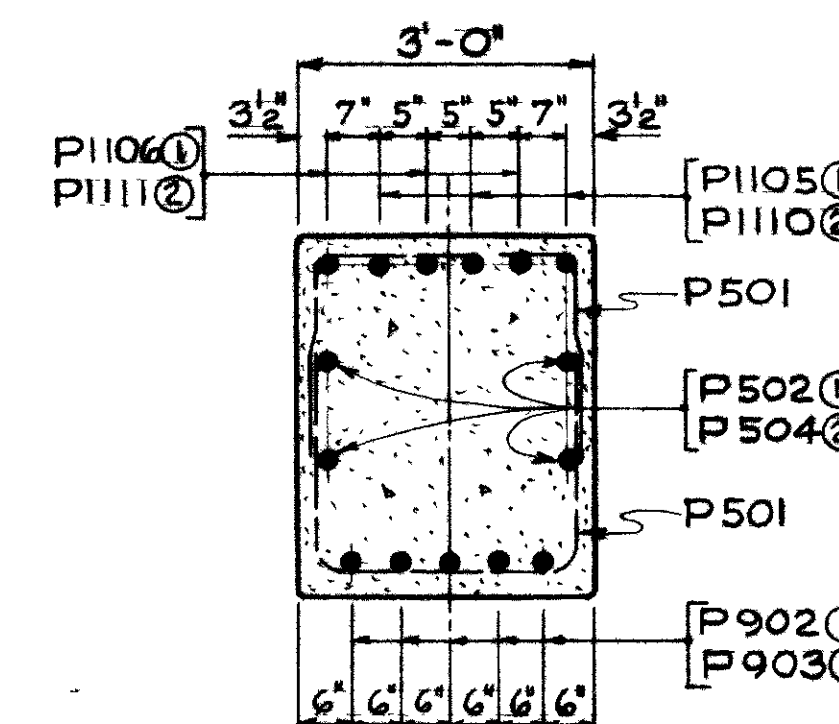


CAP PLAN - PIER 2

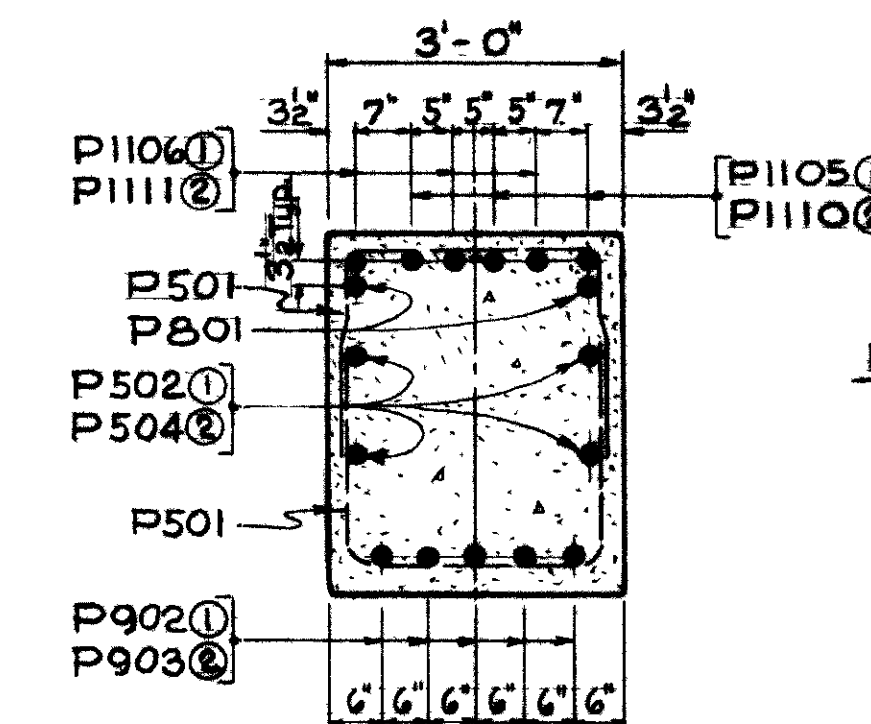


ANCHOR BOLT LAYOUT
B 200 - PIER 2

- NOTES:**
1. 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.
 2. Place dowels in footing to insure correct spacing of main column steel.
 3. For REINFORCING STEEL LIST, see sheet No. 438.

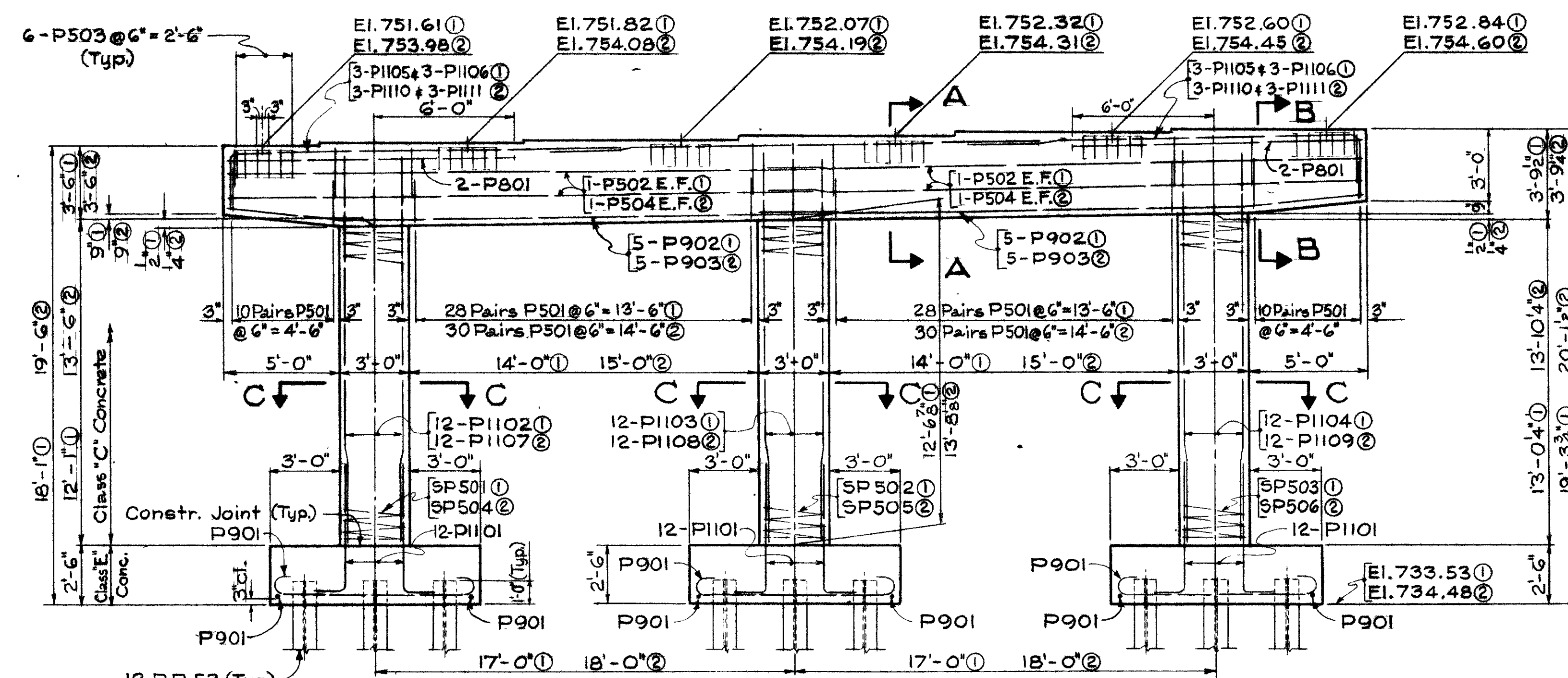


SECTION A-A

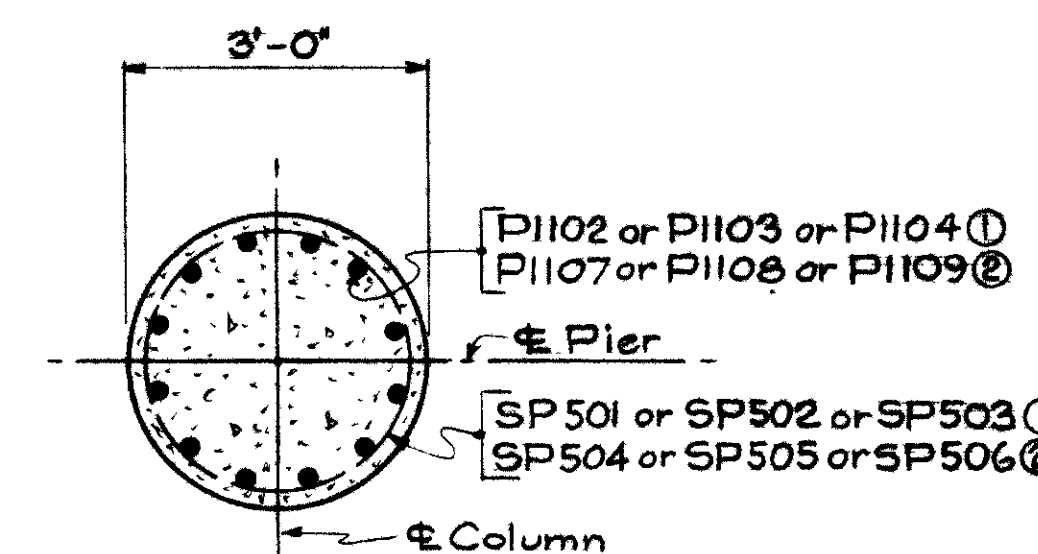


SECTION B-B

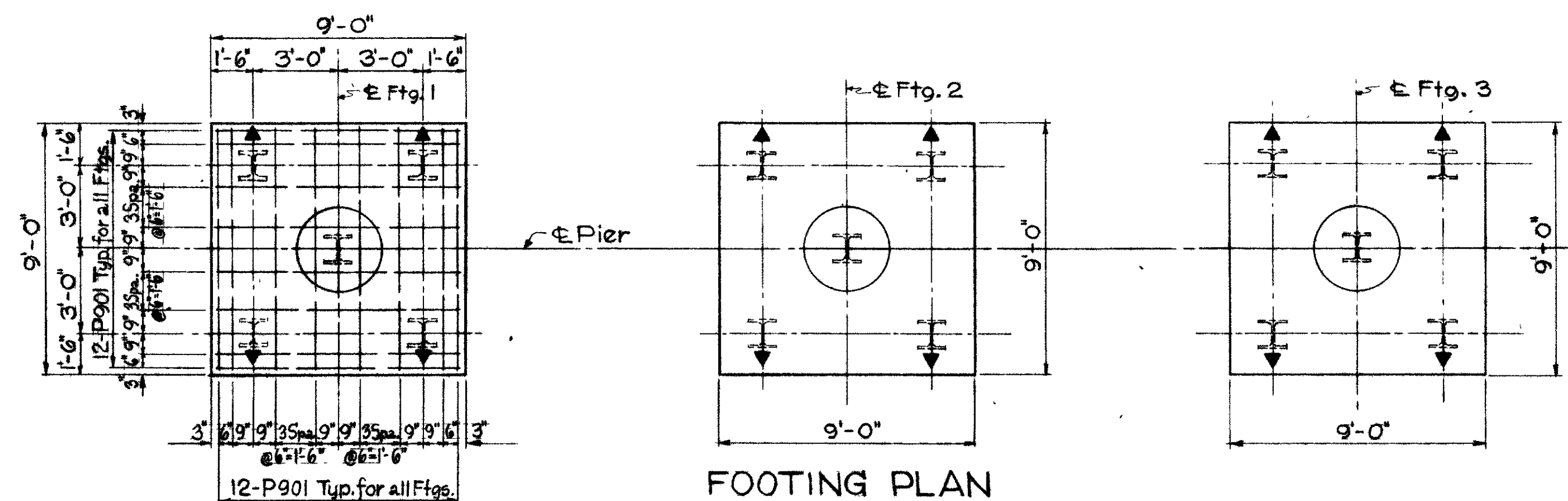
- LEGEND:**
- E.F. = Each Face
 - ① = Pier 1
 - ② = Pier 2
 - ↗ = Battered Piles (Batter 1:4 in Direction of Arrow).



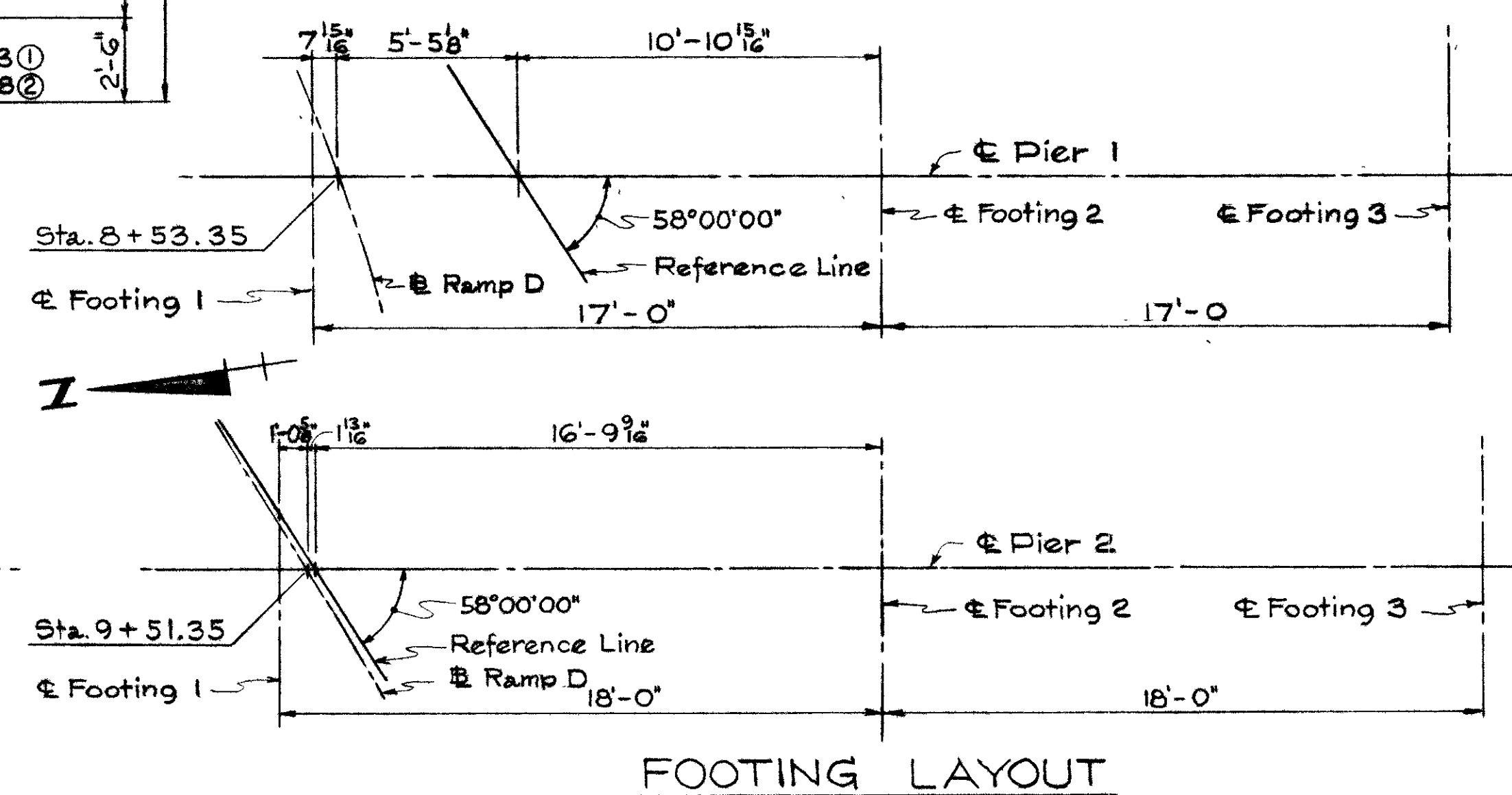
ELEVATION



SECTION C-C



FOOTING PLAN

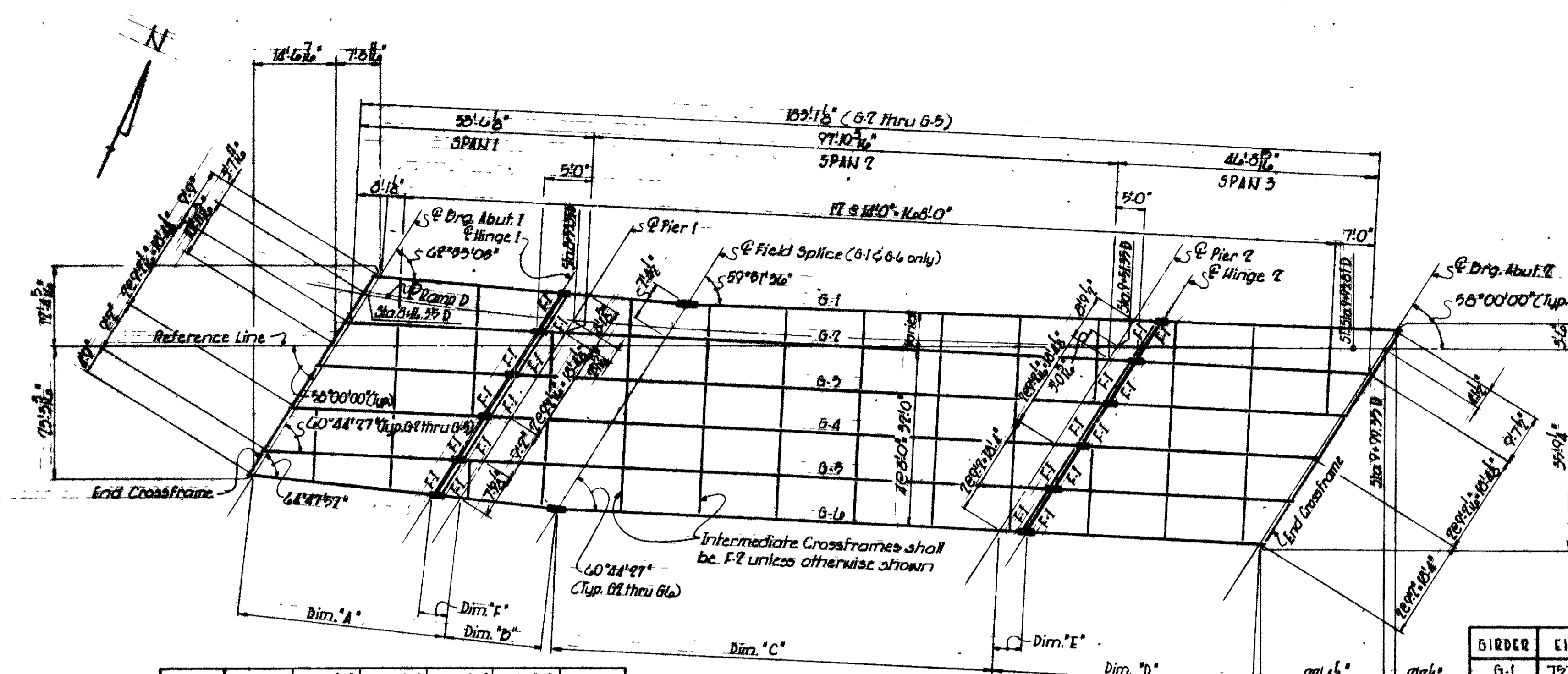


FOOTING LAYOUT

VOGT, IVERS, & ASSOCIATES
ENGINEERS ARCHITECTS
CINCINNATI CHICAGO

**PIERS 1 & 2
RAMP D OVER
PATTERSON BLVD. & S. MAIN ST.
MONTGOMERY COUNTY STA. 8+13.91 D to
STA. 10+02.00 D**

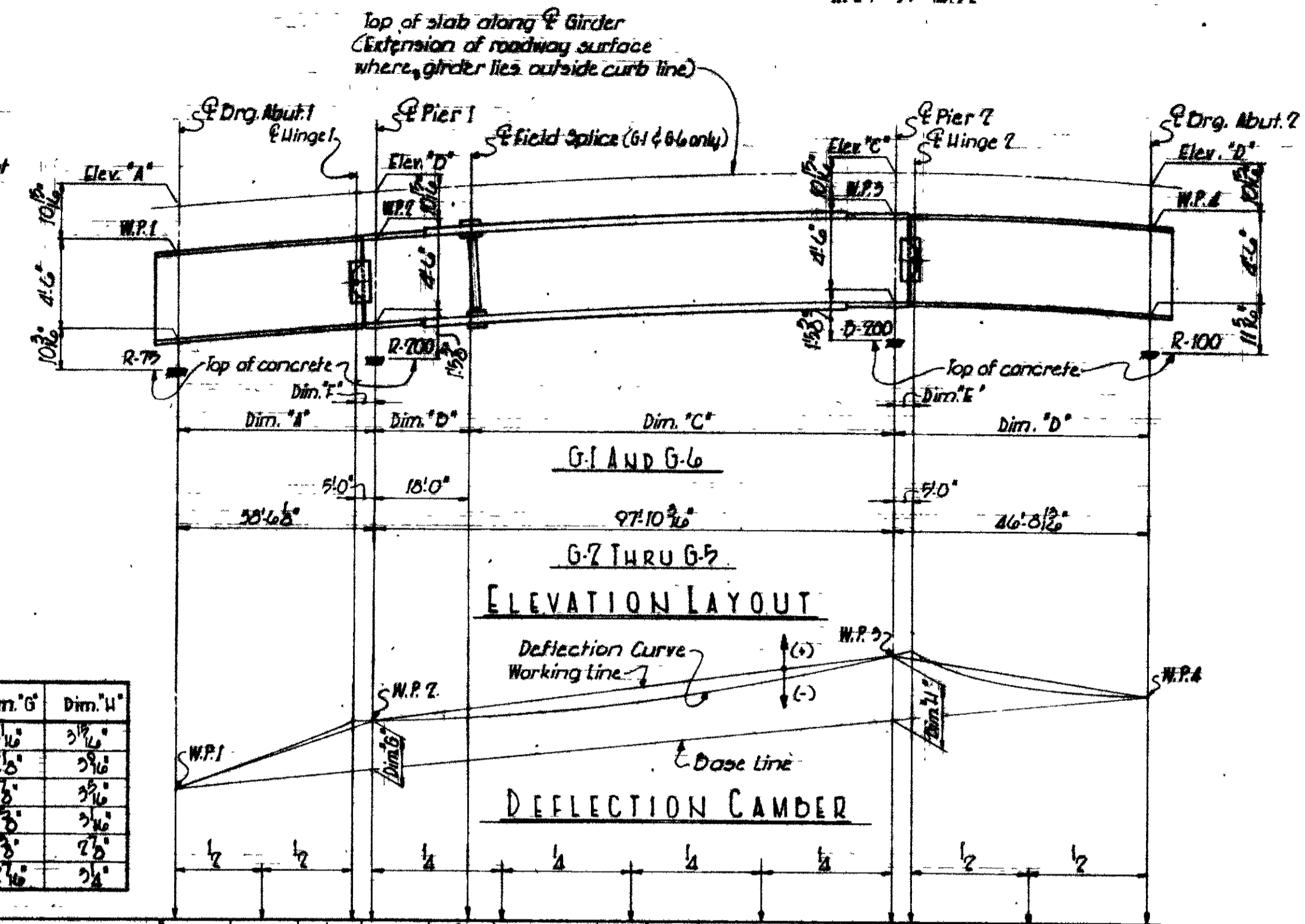
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.J.J.	M.P.S.		D.S.M.	J.A.D.	8-19-66	



Girder	Dim. 'A'	Dim. 'D'	Dim. 'C'	Dim. 'D'	Dim. 'E'	Dim. 'F'
G-1	57'-8 1/2"	17'-7 1/2"	80'-6 3/8"	47'-1 3/8"	5'-0 3/8"	4'-10 3/8"
G-6	57'-1 1/2"	17'-4 1/2"	79'-10 1/2"	46'-5 1/2"	5'-0"	4'-9 5/8"

PLAN

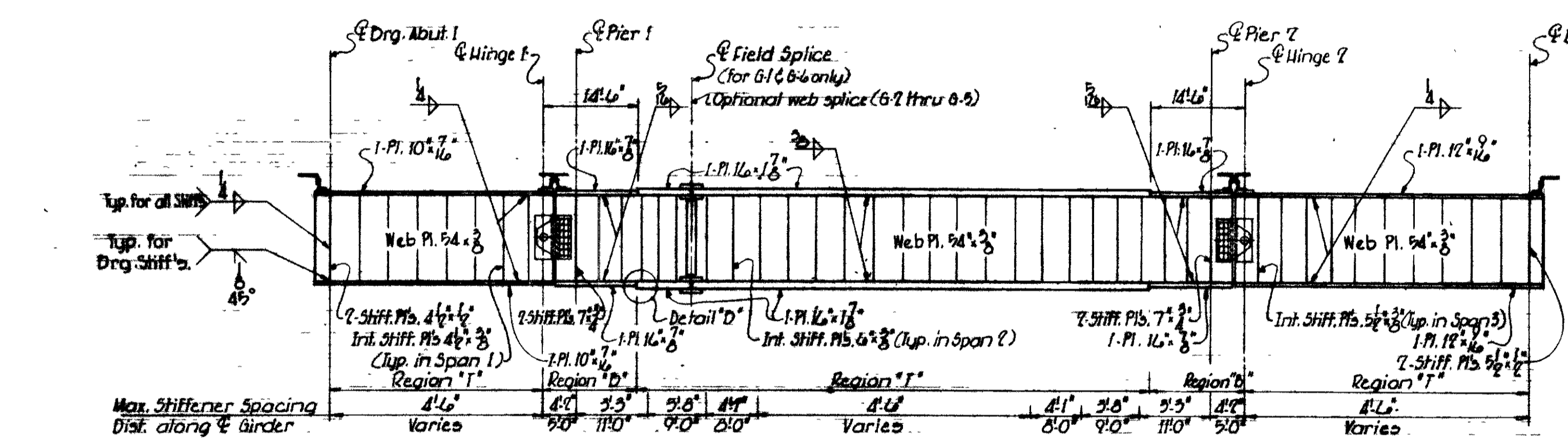
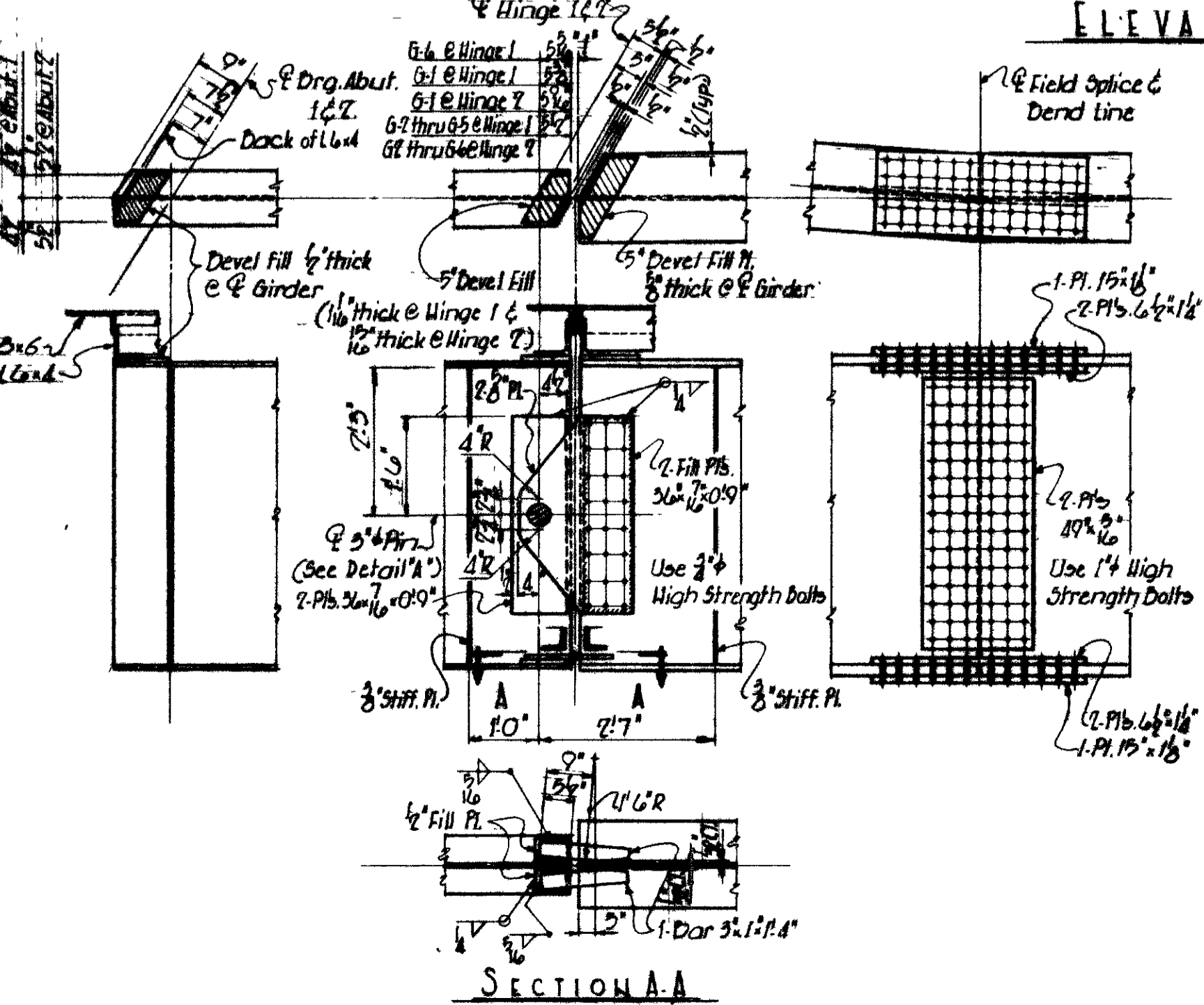
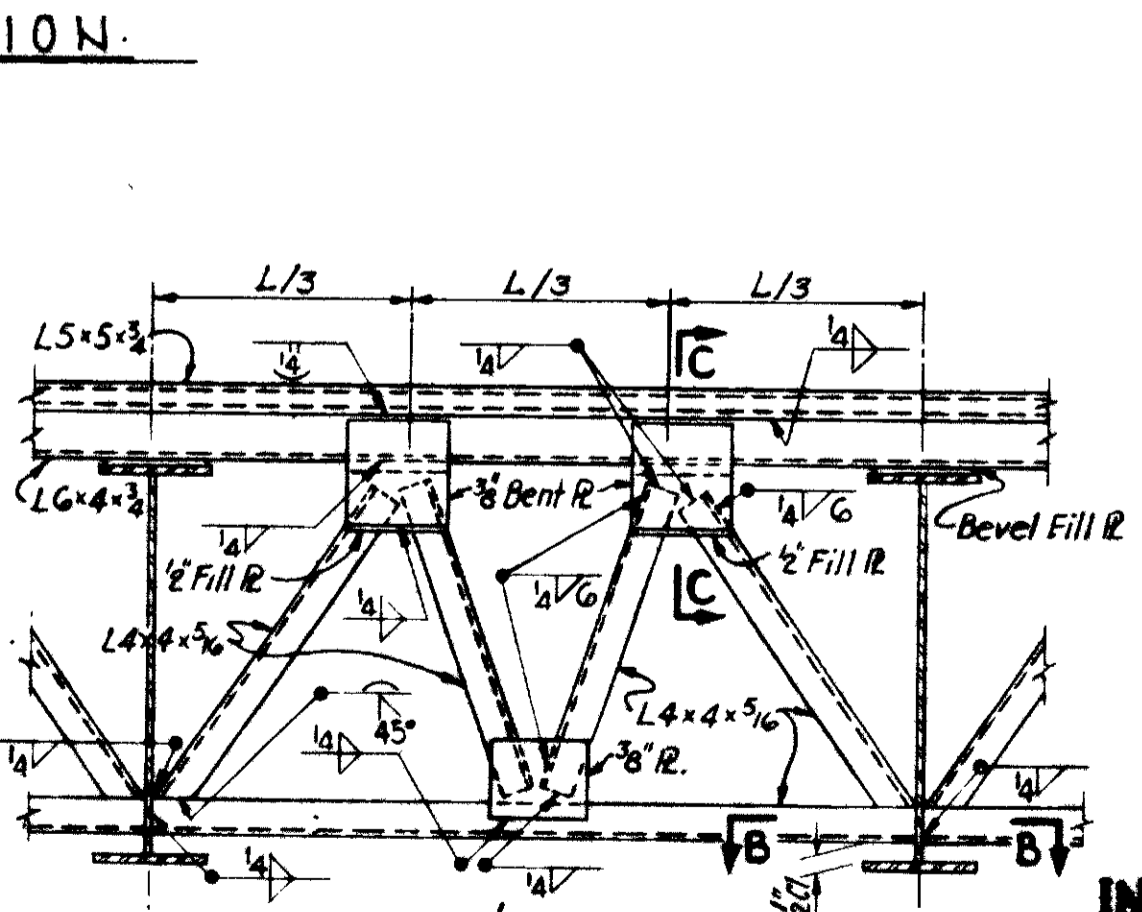
NOTES:
 All working points are at top of web.
 Working Lines are straight lines between indicated work points (W.P.).
 The base line is a straight line between work points W.P.1 and W.P.4.
 Tabulated values in the Deflection & Camber table shall be measured from the working lines.


ELEVATION LAYOUT
DEFLECTION CAMBER

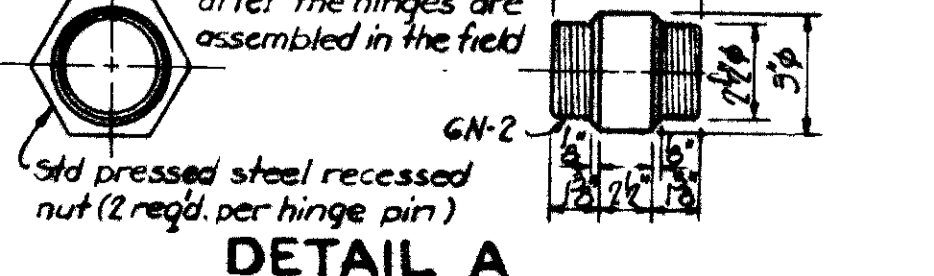
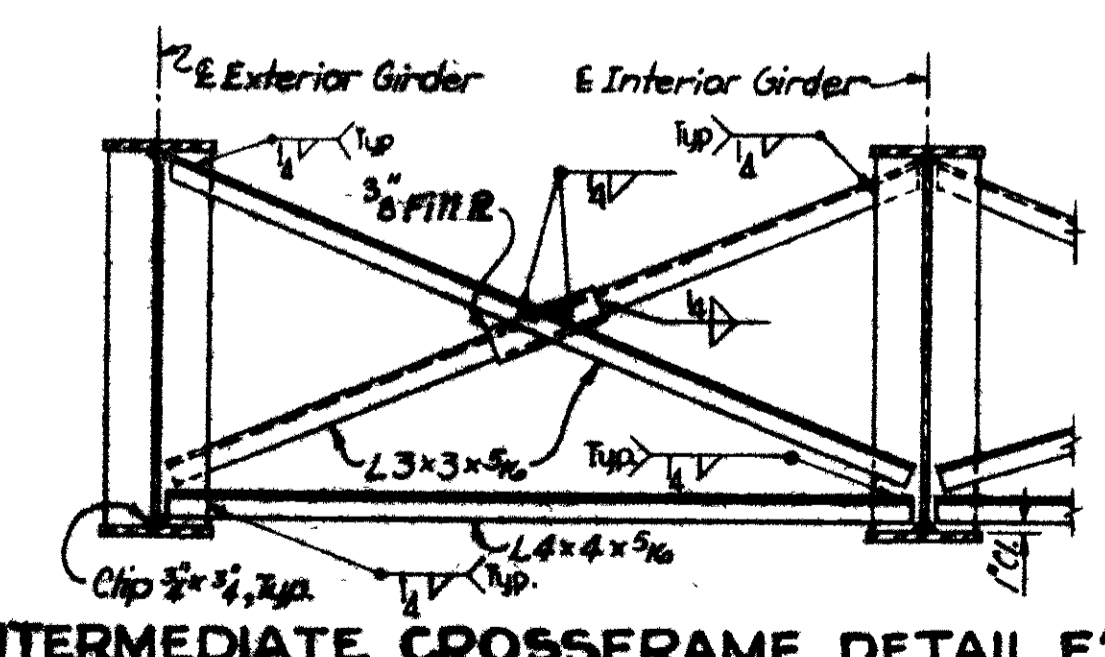
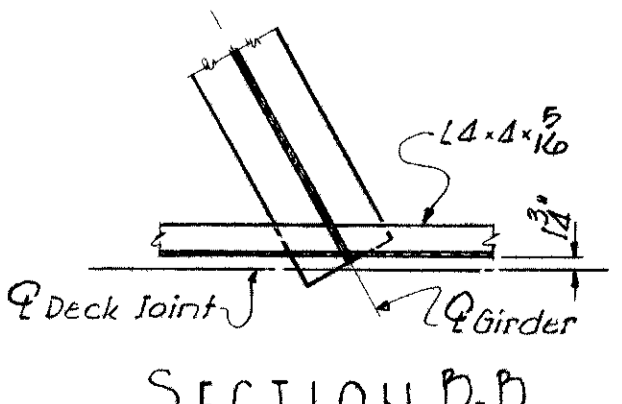
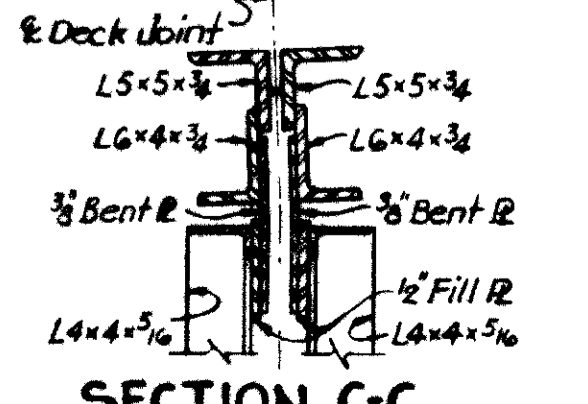
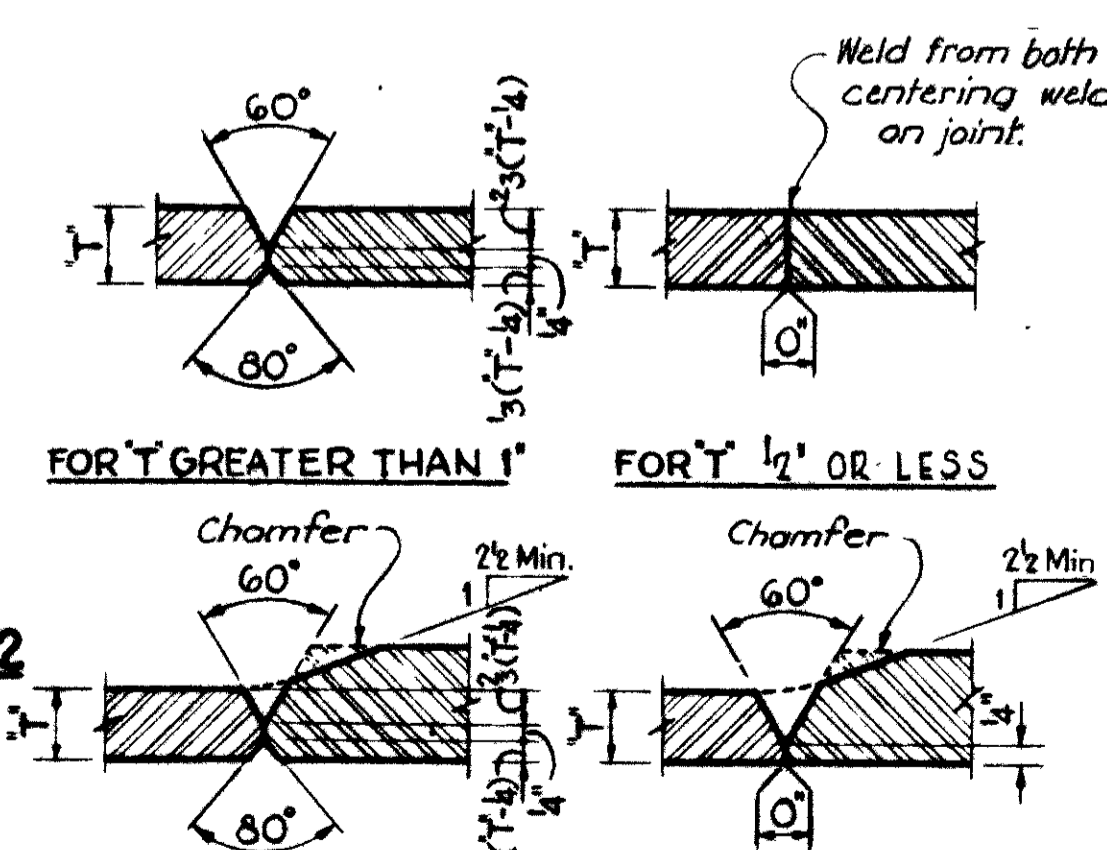
GIRDER	Elev. 'A'	Elev. 'D'	Elev. 'C'	Elev. 'E'	Dim. 'G'	Dim. 'H'
G-1	797.956	798.479	760.042	761.611	2 1/2'	2 1/2'
G-2	797.642	798.179	760.997	761.564	2 1/2'	2 1/2'
G-3	797.882	798.924	761.048	761.790	1 1/2'	2 1/2'
G-4	798.516	799.189	761.172	761.808	1 1/2'	2 1/2'
G-5	798.663	799.497	761.309	761.898	1 1/2'	2 1/2'
G-6	798.849	799.700	761.496	761.999	2 1/2'	2 1/2'

LEGEND:
 Region 'T': Stiffeners shall have contact bearing with the top flange.
 Region 'D': Stiffeners shall have contact bearing with the bottom flange.

	Deflection due to weight of steel											
	Camber Required for D.L.											
	Correction for Horiz. and Vertical Curves											
	Total Camber Required											
G-1	0	0	+1/16	0	-3/16	-1/8	-1/8	0	+1/16	0	0	0
G-2	0	0	+1/16	0	+1/16	+1/16	+1/16	0	+1/16	+1/16	0	0
G-3	0	0	0	0	+1/16	+1/16	+1/16	0	+1/16	+1/16	0	0
G-4	0	0	-1/16	0	0	+1/16	+1/16	0	+1/16	+1/16	0	0
G-5	0	0	-1/16	0	0	+1/16	+1/16	0	+1/16	+1/16	0	0
G-6	0	0	0	0	0	+1/16	+1/16	0	+1/16	+1/16	0	0
G-1	0	0	-1/16	-3/16	0	+1/16	+1/16	+1/16	0	0	+1/16	0
G-2	0	0	-1/16	0	0	+1/16	+1/16	+1/16	0	-1/16	+1/16	0
G-3	0	0	-1/16	0	0	+1/16	+1/16	+1/16	0	-1/16	+1/16	0
G-4	0	0	-1/16	0	0	+1/16	+1/16	+1/16	0	-1/16	+1/16	0
G-5	0	0	-1/16	0	0	+1/16	+1/16	+1/16	0	-1/16	+1/16	0
G-6	0	0	0	0	0	+1/16	+1/16	+1/16	0	-1/16	+1/16	0


ELEVATION

SECTION A-A

CROSSFRAME DETAIL F-1

NOTE: Crossframes F1 shall be placed vertical.


DETAIL A

INTERMEDIATE CROSSFRAME DETAIL F-2

SECTION B-B

SECTION C-C

DETAIL B (Use welds as req'd.)

NOTE: All of the full penetration welds shall be back-gouged and welded after welding far side. Buff welds on girder flange plates shall be ground flush; the finish grinding being parallel to the E of the girder.

- NOTES:**
- For End Crossframe and End Dam Details, see Std. Dwg. 50-1-65 Sh. 1 of 2.
 - For details of Std. Scupper, see Std. Dwg. 50-1-65 Sh. 2 of 2.
 - For Scupper Location, see Sh. 4 57.
 - For Racker & Dasher details, see Std. Dwg. RD-1-55.
 - For Adjusted Curb Line Elevations, see Sh. 4 37.
 - For details of preformed elastic joint filler, see Sh. 3 91.
 - The Pins shall be made from ASTM A307 Class B steel.
 - For Reference Line Layout, see Sh. 4 31.
 - Use 8x6 main angle for End Dam.

VOGT, IVERS, & ASSOCIATES
 ENGINEERS ARCHITECTS
 CINCINNATI CHICAGO

FRAMING PLAN
 RAMP D OVER
 PATTERSON BLVD. & S. MAIN STREET

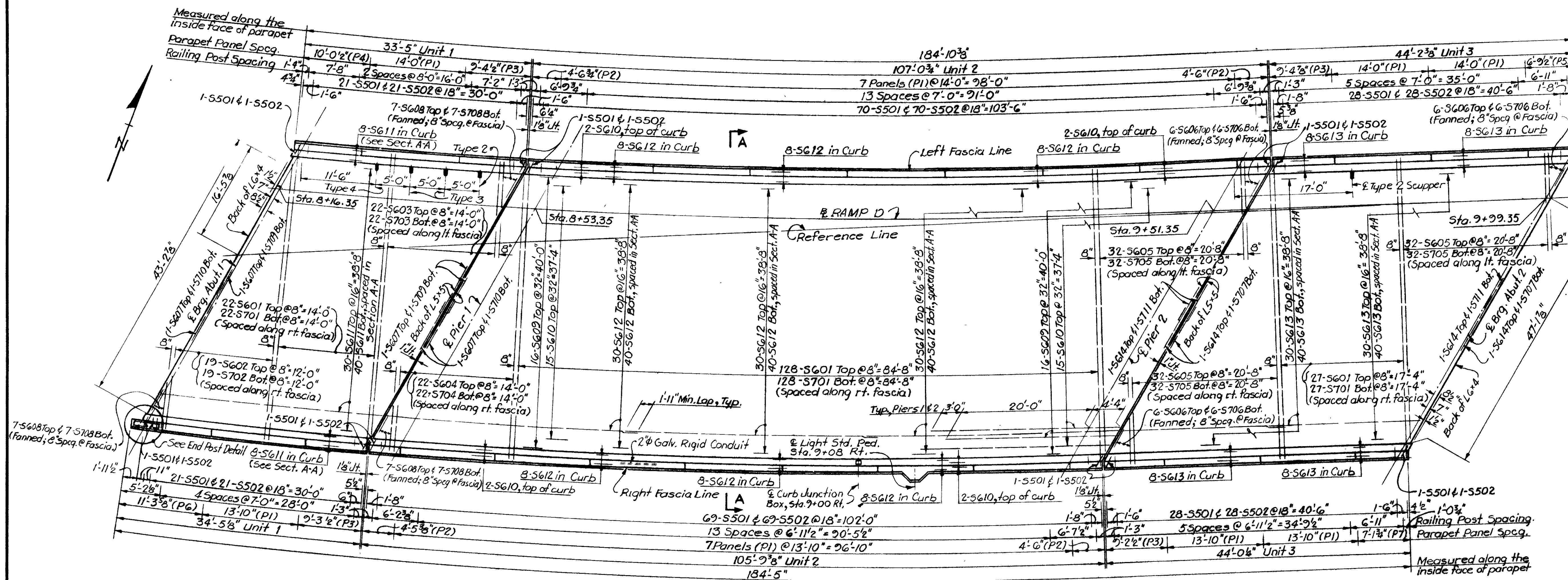
MONTGOMERY COUNTY STA. 8+19.91 D TO
 STA. 10+02.00 D (22) L.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.S.	B.TAMMUN	~	B.R.N.	J.A.R. 8-19-66	7-27-67

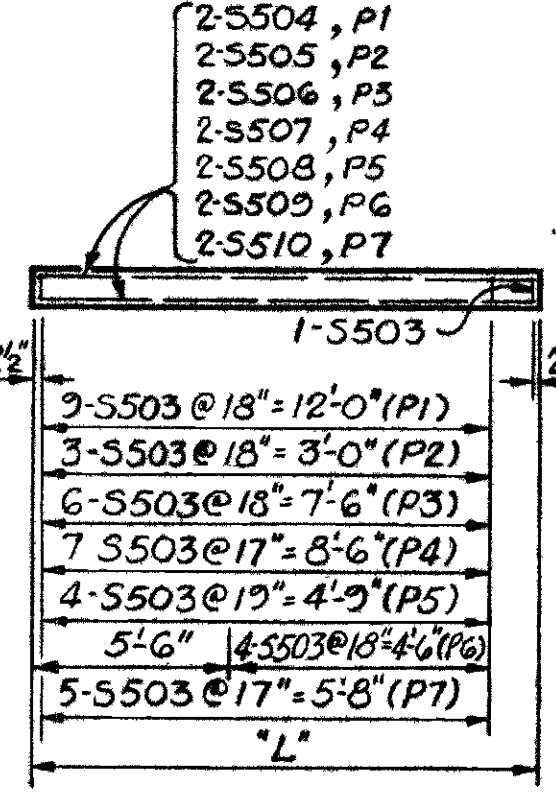
NOTE: All Transverse Steel to be placed normal to Ramp D.

FED. RD. DIVISION	STATE	PROJECT	437 520
2	OHIO		

MOT-35-14.52



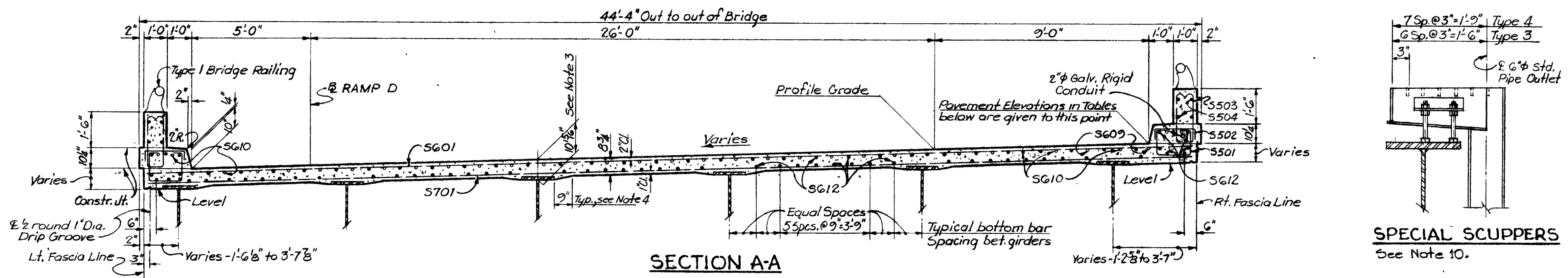
PANELS		
MARK	NO.	"L"
P1	10	14'-0"
P1	10	13'-10"
P2	1	4'-6 3/4"
P2	2	4'-6"
P3	1	5'-4 1/2"
P3	1	5'-4 1/2"
P3	1	5'-3 1/2"
P3	1	5'-2 1/2"
P4	1	10'-0 1/2"
P5	1	6'-9 1/2"
P6	1	11'-3 3/4"
P7	1	7'-1 1/2"



PARAPET PANELS

PLAN

- NOTES**
- For Reference Line Layout, see Sheet 431
 - For Reinforcing Steel List, see Sheet 438
 - This is a 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 line. Deduction shall be made for volume of encased steel plates as per Sec. 511.19 of the Construction and Material Specifications.
 - The typical haunch 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 not be more than 1:4 for a haunch less than 9" in width.
 - For End Dam and Curb Plate Details at Abutments, see Std. Dwg. SD-1-65, Sheets 1 & 2 of 3.
 - Parapet concrete, and longitudinal reinforcing bars in parapet are to be included with Item 517 for payment.
 - Spread or cut reinforcing steel to clear scuppers as necessary.
 - For Railing and Parapet Joint Details, see Std. Dwg. BR-1-65, Sheet 1 of 2.
 - For Detail of provisions for conduit expansion at open joints, see Sheet 237
 - For Scupper Details, see Std. Dwg. SD-1-65, Sheet 2 of 3.
 - For Light Standard Pedestal Details, see Sheet 432
 - Slab thickness includes 1" monolithic wearing surface.
 - Delineator Brackets, Type C-2 shall be mounted on the aluminum handrail, right of Ramp D @ Sta. 8+70 & Sta. 9+70.
 - For Details of Curb Junction Box for Underpass Luminaire, see Sheet 237
 - For Details of slab joints, see Sheet 391



SECTION A-A

SPECIAL SCUPPERS
See Note 10.

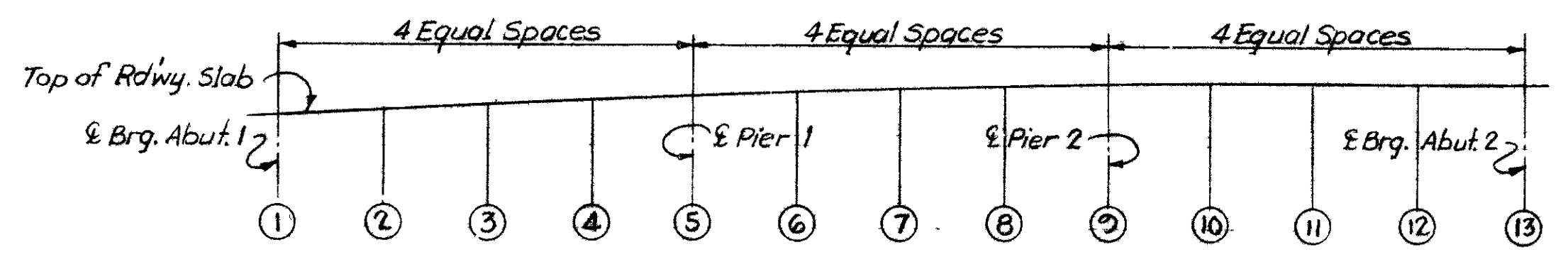
Station	8+00	8+25	8+50	8+75	9+00	9+25	9+50	9+75	10+00
LEFT CURB LINE	757.28	757.59	757.89	758.18	758.47	759.23	759.89	760.42	760.84
PROFILE GRADE	758.29	759.04	759.29	759.50	759.72	760.32	760.81	761.19	761.48
RIGHT CURB LINE	758.83	759.06	759.29	759.50	759.72	760.32	760.81	761.19	761.48

NOTE: All fascia offsets shown are measured normal to G Girder. Left fascia line located by top row dimensions from G1 & right fascia located by bot. row dimensions from G6.

FASCIA OFFSETS

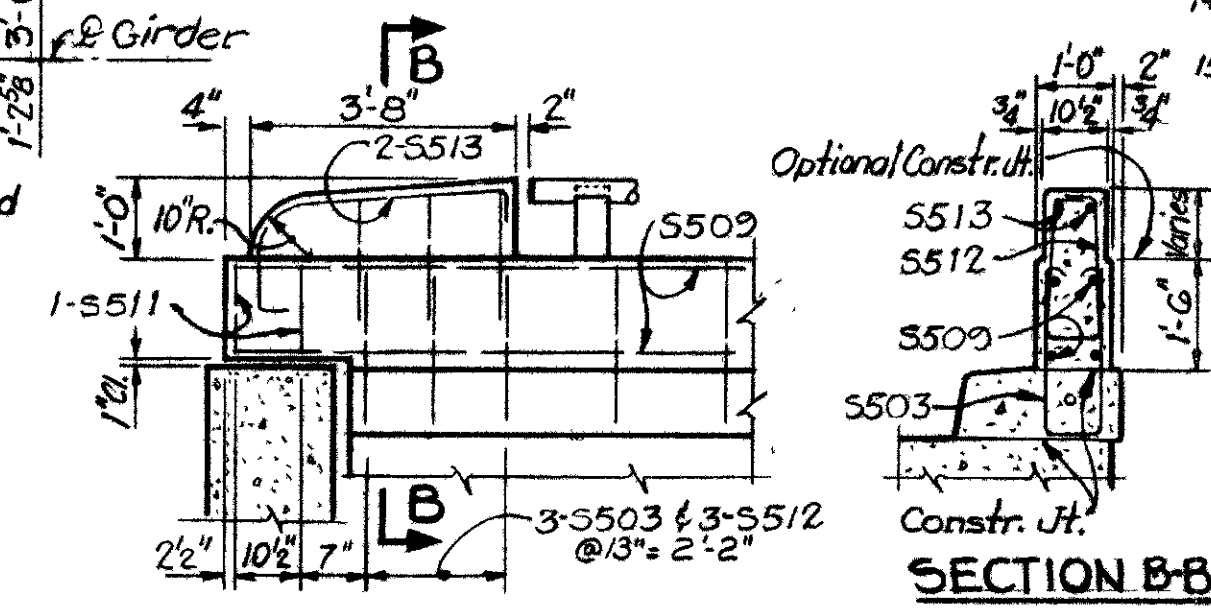
STATION	8+00	8+25	8+50	8+75	9+00	9+25	9+50	9+75	10+00
LEFT CURB LINE	757.28	757.59	757.89	758.18	758.47	759.23	759.89	760.42	760.84
PROFILE GRADE	758.29	759.04	759.29	759.50	759.72	760.32	760.81	761.19	761.48
RIGHT CURB LINE	758.83	759.06	759.29	759.50	759.72	760.32	760.81	761.19	761.48

FINISHED PAVEMENT ELEVATIONS



ADJUSTED CURB LINE ELEVATIONS													
POINT	1	2	3	4	5	6	7	8	9	10	11	12	13
LT. CURB LINE	757.28	757.59	757.89	758.18	758.47	759.23	759.89	760.42	760.84	761.05	761.26	761.44	761.60
RT. CURB LINE	758.83	759.06	759.29	759.50	759.72	760.32	760.81	761.19	761.48	761.62	761.77	761.89	761.99

Elevations are adjusted for remaining dead load deflection.



TYPICAL CANTILEVER END POST DETAIL

VOGT, IVERS, & ASSOCIATES
ENGINEERS ARCHITECTS
CINCINNATI CHICAGO

SUPERSTRUCTURE ROADWAY SLAB

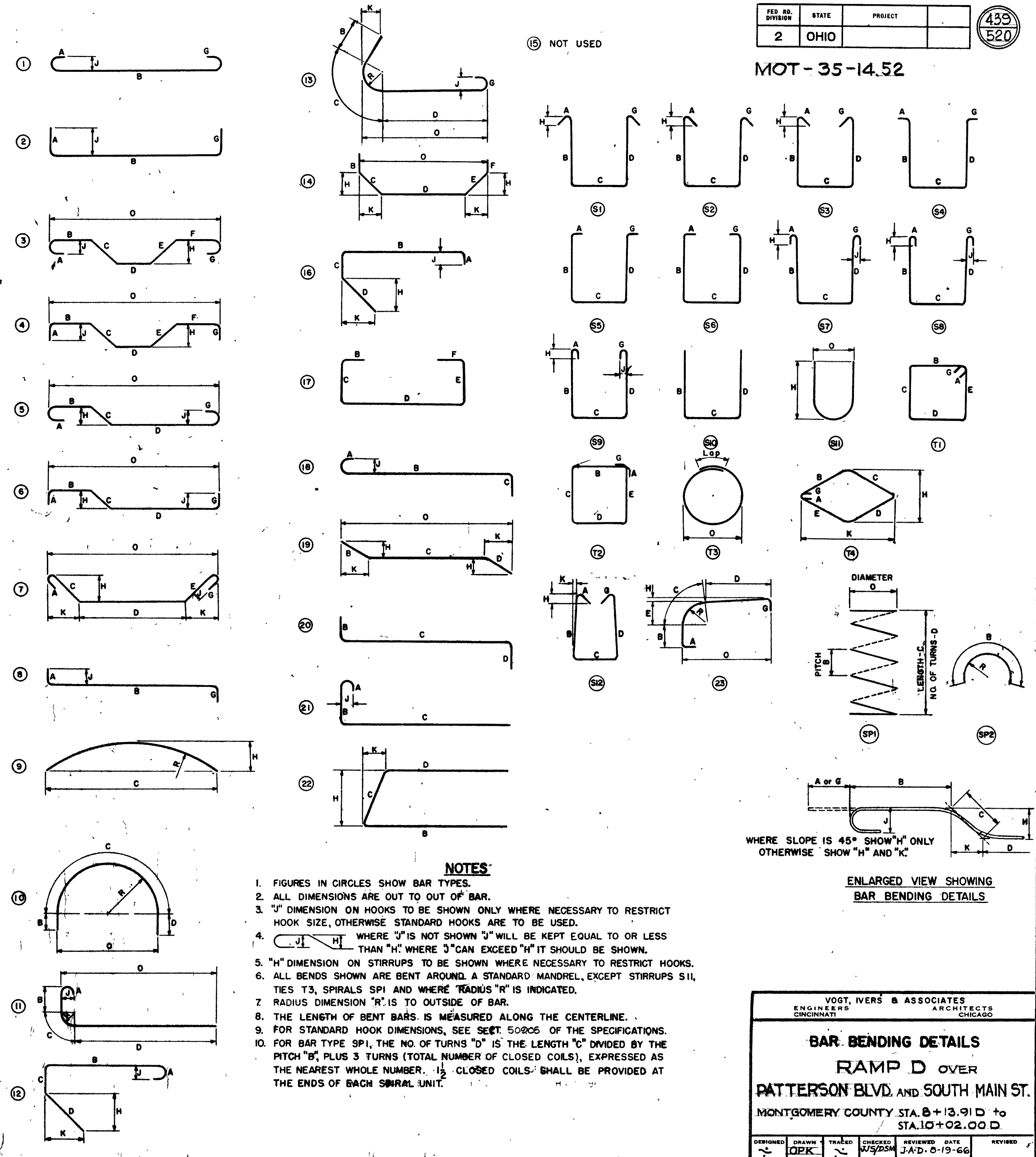
RAMP D OVER
PATTERSON BLVD. & S. MAIN
MONTGOMERY COUNTY STA. 8+13.91 D TO
STA. 10+02.00 D (26' LT.)

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.L.S.	J.C.H.	~	G.R.H.	J.A.D.	8-19-66	

ABUTMENT 1				ABUTMENT 2				PIERS				SUPERSTRUCTURE				REPLACEMENT BARS														
MARK	NO.	LENGTH	TYPE	WEIGHT	MARK	NO.	LENGTH	TYPE	WEIGHT	MARK	NO.	LENGTH	TYPE	WEIGHT	MARK	NO.	LENGTH	TYPE	WEIGHT	MARK	NO.	LENGTH	TYPE	WEIGHT	MARK	NO.	LENGTH	TYPE	WEIGHT	
A501	13	8'-4"	Bt	113	B501	35	8'-3"	Bt	301	P501	304	7'-3"	Bt	2229	S501	250	4'-11"	Bt	1282	RE501	1	5'-7"	Str							
A502	13	7'-1"	Bt	96	B502	35	7'-0"	Bt	256	P502	8	24'-2"	Str	202	S502	250	2'-6"	Bt	652	RE502	1	5'-7"	Str							
A503	58	7'-2"	Bt	434	B503	61	7'-2"	Bt	456	P503	72	4'-5"	Str	332	S503	272	5'-7"	Bt	1584	RE503	3	5'-11"	Str							
A504	10	5'-1"	Bt	53	B504	7	4'-0"	Str	29	P504	8	25'-2"	Str	210	S504	80	13'-6"	Str	*-1	RE701	2	6'-3"	Str							
A505	8	25'-4"	Str	211	B505	9	24'-4"	Str	228					S505	16	4'-1"	Str	*-1	RE801	1	6'-6"	Str								
A506	9	21'-6"	Str	202	B506	9	24'-11"	Str	234					S506	16	8'-11"	Str	*-1	RE801	1	6'-10"	Str								
A507	9	26'-3"	Str	246	B507	6	6'-1"	Bt	38	P601	8	12'-3"	Str	262	S507	4	9'-8"	Str	*-1	RE100	1	7'-3"	Str							
A508	1	12'-5"	Str	13	B508	6	4'-3"	Bt	*-					S508	4	6'-5"	Str	*-1	RE110	1	7'-7"	Str								
A509	1	10'-3"	Str	11	B509	4	5'-6"	Bt	*-					S509	4	10'-11"	Str	*-1												
A510	9	1'-8"	Bt	16	B510	21	3'-1"	Bt	68					S510	4	6'-9"	Str	*-1												
A511	9	4'-9"	Bt	45	B511	21	3'-3"	Bt	71	P901	144	11'-0"	Bt	5386	S511	2	3'-5"	Bt	*-1											
A512	4	15'-4"	Str	*-	B512	1	2'-0"	Str	21	P902	10	24'-8"	Bt	839	S512	3	4'-2"	Bt	*-1											
A513	2	15'-6"	Str	32	B513	1	13'-0"	Str	14	P903	10	25'-8"	Bt	873	S513	2	5'-4"	Bt	*-1											
A514	9	3'-3"	Bt	31	B514	1	7'-0"	Str	7																					
A515	9	3'-1"	Bt	29	B515	1	12'-0"	Str	13																					
A516	3	13'-6"	Str	42	B516	1	9'-5"	Str	10																					
A517	10	6'-8"	Str	70	B517	1	6'-6"	Str	7	P1101	72	7'-0"	Bt	2678	S601	177	43'-8"	Str	11609											
A518	3	15'-8"	Str	49	B518	6	4'-0"	Bt	25	P1102	12	15'-1"	Str	962	S602	19	13'-0" to 43'-0" by 1/2"	Str	799											
A519	1	9'-8"	Str	10	B519	7	17'-5"	Str	127	P1103	12	15'-9"	Str	1004	S603	22	13'-0" to 43'-0" by 1/2"	Str	929											
A520	1	7'-6"	Str	8	B520	3	12'-4"	Bt	39	P1104	12	16'-3"	Str	1036	S604	22	12'-9" to 42'-6" by 1/2"	Str	913											
A521	4	5'-6"	Str	23	B521	3	7'-0"	Str	22	P1105	6	19'-6"	Bt	622	S605	96	8'-5" to 42'-0" by 1/2"	Str	3635											
A522	1	7'-8"	Str	8	B522	2	11'-8"	Str	24	P1106	6	35'-7"	Str	1071	S606	18	5'-8" to 7'-4" by 3/8"	Str	176											
A523	6	14'-2"	Str	89	B523	6	13'-6"	Str	84	P1107	12	16'-6"	Str	1052	S607	6	25'-6"	Str	230											
A524	3	10'-4"	Bt	32	B524	3	14'-6"	Str	45	P1108	12	16'-11"	Str	1079	S608	21	7'-6" to 12'-0" by 3/8"	Str	308											
A525	9	11'-11"	Bt	112	B525	21	4'-9"	Bt	*-	P1109	12	17'-1"	Str	1089	S609	32	24'-4"	Str	1170											
A526	6	3'-1" to 5'-5" by 3/8"	Str	29	B526	29	7'-0"	Str	212	P1110	6	20'-6"	Bt	653	S610	38	27'-4"	Str	1560											
A527	3	4'-3"	Bt	*-	B527	26	11'-11"	Bt	323	P1111	6	34'-7"	Str	1102	S611	86	32'-6"	Str	4198											
A528	2	5'-5"	Bt	*-	B528	12	3'-5" to 5'-1" by 3/8"	Str	55					S612	258	37'-2"	Str	1440												
A529	1	20'-6"	Str	21	B529	21	1'-8"	Bt	*-					S613	172	23'-0"	Str	5942												
A530	3	4'-0"	Bt	13	B530	4	7'-0"	Str	29					S614	6	27'-0"	Str	243												
A531	3	2'-2"	Bt	7	B531	1	11'-6"	Str	12	SP501	1	12'-1"	Bt	448																
A532	3	6'-3"	Bt	20	B532	1	8'-6"	Str	9	SP502	1	12'-7"	Bt	466																
A533	2	7'-0"	Str	15	B533	4	17'-1"	Str	*-	SP503	1	13'-0"	Bt	480																
A534	1	7'-2"	Str	7	B534	6	2'-2"	Bt	14	SP504	1	13'-6"	Bt	498																
A535	7	5'-0"	Str	37	B535	4	19'-4"	Str	*-	SP505	1	13'-8"	Bt	504	S701	177	43'-8"	Str	15798											
A536	9	16'-8"	Str	156	B536	10	19'-8"	Str	205	SP506	1	13'-10"	Bt	519	S702	19	13'-0" to 43'-0" by 1/2"	Str	1087											
A537	13	9'-2" to 23'-2" by 1/2"	Str	219	B537	2	13'-0"	Str	27					S703	22	13'-0" to 43'-0" by 1/2"	Str	1265												
A538	13	8'-6"	Bt	115	B538	9	25'-4"	Str	238					S704	22	12'-9" to 42'-6" by 1/2"	Str	1247												
A539	10	14'-3" to 30'-9" by 1/2"	Str	236	B539	9	23'-11"	Str	225					S705	96	8'-5" to 42'-0" by 1/2"	Str	4946												
A540	1	17'-2"	Str	18										S706	18	5'-8" to 7'-4" by 3/8"	Str	239												
A541	2	15'-1"	Str	31	B601	35	14'-1"	Bt	740					S707	3	24'-3"	Str	149												
					B602	31	18'-10"	Bt	877					S708	21	7'-6" to 12'-0" by 3/8"	Str	419												
					B603	17	17'-5"	Bt	445					S709	3	23'-0"	Str	141												
					B604	12	19'-0"	Bt	342					S710	3	28'-3"	Str	173												
					B605	4	9'-8"	Bt	58					S711	3	30'-0"	Str	184												
A601	13	14'-3"	Bt	278	B606	2	7'-6"	Bt	23					SA501	4	5'-3"	Bt	22												
A602	28	18'-2"	Bt	764	B607	5	9'-9"	Bt	73					SA502	8	4'-0"	Bt	33												
A603	15	16'-11"	Bt	381	B608	2	7'-3"	Bt	22					SA503	2	2'-8"	Bt	6												
A604	3	18'-7"	Bt	84																										
A605	1	9'-5"	Bt	14																										
A606	2	7'-4"	Bt	22																										
A607	2	9'-6"	Bt	29																										
A608	4	18'-4"	Bt	110	B801	12	28'-0"	Str	897																					
A609	30	15'-0"	Str	676	B802	6	14'-0"	Str	224																					
					B803	6	16'-3"	Str	260																					
					B804	2	27'-3"	Bt	146																					
					B805	2	4'-0"	Str	21																					
A701	6	26'-6"	Str	325																										
A702	29	16'-8"	Str	988																										
A801	2	15'-1"	Str	81																										
A802	3	16'-0"																												

MOT-35-14.52

MARK	TYPE	DIMENSIONS FOR BENDING													
		A	B	C	D	E	F	G	H	J	K	R	O		
A501	17			1'-7"	5'-5"	1'-7"									
A502	2	6"	6'-7"												
A503	17			2'-0"	3'-5"	2'-0"									
A504	2	6"	4'-7"												
A510	2	6"	8"												
A511	17			2'-2"	8"	2'-2"									
A514	22		1'-2"		1'-4"				1'-4"			2"			
A515	17			1'-0"	1'-4"	1'-0"									
A524	20		8"	9'-10"											
A525	71	5"	3'-2"	2'-7"	3'-2"	2'-7"									
A527	512	5"	1'-6"	8"	1'-6"										
A528	23	6"	9"	11 5/8"	2'-8 1/2"	7 3/8"									
A530	2	6"	3'-6"												
A531	2	6"	1'-2"												
A532	17		1'-10"	1'-2"	3'-6"										
A537	17			3'-0" to 10'-0" by 7"	3'-5"	3'-0" to 10'-0" by 7"									
A538	17			2'-8"	3'-5"	2'-8"									
A601	17		6'-7"	5'-5"	2'-7"										
A602	17		6'-7"	7'-11"	11"	2'-0"									
A603	17			7'-11"	1'-5"	7'-11"									
A604	17			8'-9"	1'-5"	8'-9"									
A605	2	8"	8'-9"												
A606	2	8"	6'-8"												
A607	2	8"	8'-10"												
A608	17			8'-9"	1'-2"	8'-9"									
A803	19		1'-7"	15'-7"											
A804	2	11"	5'-3"						6"		1'-6"		17'-1"		
A1001	1	1'-5"	15'-0"												
B501	17			1'-7"	5'-4"	1'-7"									
B502	2	6"	6'-6"												
B503	17			2'-0"	3'-5"	2'-0"									
B507	17		1'-8"	1'-2"	3'-6"										
B508	512	5"	1'-6"	8"	1'-6"	5"									
B509	23	6"	9"	1'-1"	2'-8"	8"			6"		2"		1"	8"	
B510	17			1'-0"	1'-4"	1'-0"									
B511	22		1'-2"	1'-4"	1'-0"										
B516	2	6"	3'-6"												
B520	2	8"	11'-9"												
B525	17		2'-2"	8"	2'-2"										
B527	71	5"	3'-2"	2'-7"	3'-2"	2'-7"									
B529	510		6"	8"	6"										
B534	510		6"	1'-2"	6"										
B601	17		6'-6"	5'-4"	2'-7"										
B602	17		6'-10"	1'-5"	8'-2"	11"									
B603	17		8'-2"	1'-5"	8'-2"										
B604	17		9'-1"	1'-2"	9'-1"										
B605	2	8"	9'-0"												
B606	2	8"	6'-10"												
B607	2	8"	9'-1"												
B608	2	8"	6'-7"												
B804	19		2'-8"	24'-7"							1'-3"		2'-4"		
P501	S10		2'-5"	2'-8"	2'-5"										
P503	S10		1'-0"	2'-8"	1'-0"										
P901	1	1'-3"	8'-6"								1'-3"				
P902	19		4'-7 1/2"	20'-0"							8 1/2"		4'-7"		
P903	19		4'-7 1/2"	21'-0"							8 1/2"		4'-7"		
P1101	2	1'-2"	5'-10"												
P1105	2	3'-3"	16'-7"												
P1110	2	3'-3"	17'-7"												
SP501	SPI		3'-4"											2'-8"	
SP502	SPI		3'-4"											2'-8"	
SP503	SPI		3'-4"											2'-8"	
SP504	SPI		3'-4"											2'-8"	



NOTES:

- FIGURES IN CIRCLES SHOW BAR TYPES.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR.
- "J" DIMENSION ON HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- WHERE "J" IS NOT SHOWN "J" WILL BE KEPT EQUAL TO OR LESS THAN "H", WHERE "J" CAN EXCEED "H" IT SHOULD BE SHOWN.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN WHERE NECESSARY TO RESTRICT HOOKS.
- ALL BENDS SHOWN ARE BENT AROUND A STANDARD MANDREL, EXCEPT STIRRUPS S11, TIES T3, SPIRALS SPI AND WHERE "RADIUS" "R" IS INDICATED.
- RADIUS DIMENSION "R" IS TO OUTSIDE OF BAR.
- THE LENGTH OF BENT BARS IS MEASURED ALONG THE CENTERLINE.
- FOR STANDARD HOOK DIMENSIONS, SEE SECT. 502C6 OF THE SPECIFICATIONS.
- FOR BAR TYPE SPI, THE NO. OF TURNS "D" IS THE LENGTH "C" DIVIDED BY THE PITCH "B", PLUS 3 TURNS (TOTAL NUMBER OF CLOSED COILS), EXPRESSED AS THE NEAREST WHOLE NUMBER. 1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT.

WHERE SLOPE IS 45° SHOW "H" ONLY OTHERWISE SHOW "H" AND "K"

ENLARGED VIEW SHOWING BAR BENDING DETAILS

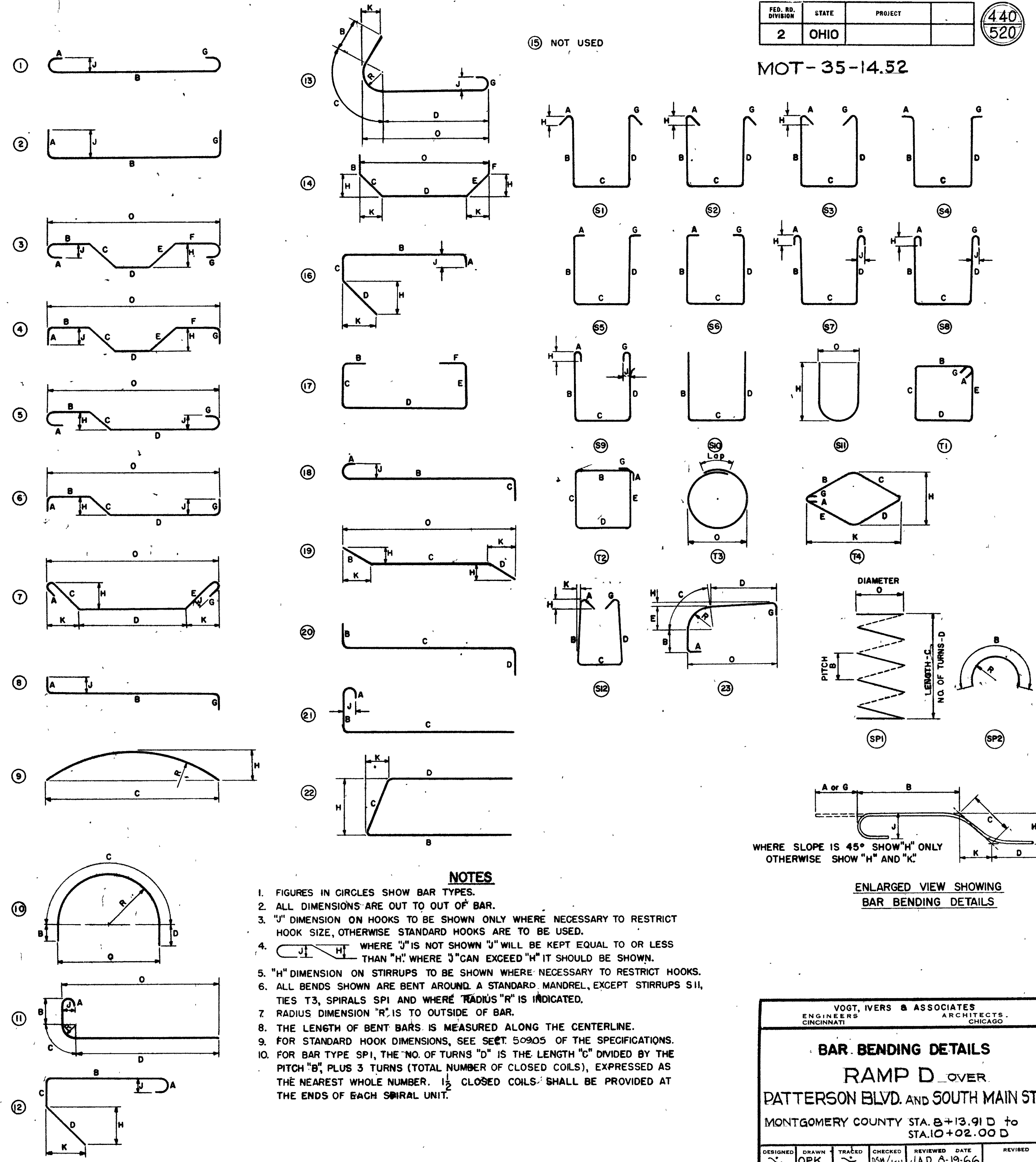
VOGT, IVERS & ASSOCIATES
ENGINEERS ARCHITECTS
CINCINNATI CHICAGO

BAR BENDING DETAILS
RAMP D OVER
PATTERSON BLVD. AND SOUTH MAIN ST.
MONTGOMERY COUNTY STA. B+13.91 D to
STA. 10+02.00 D

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	OPK		WJ/DSM	J.A.D.	8-19-66	

MOT-35-14.52

MARK	TYPE	DIMENSIONS FOR BENDING												
		A	B	C	D	E	F	G	H	J	K	R	O	
SP505	SP1		3/4"		53									2'-8"
SP506	SP1		3/4"		54									2'-8"
S501	S6	6"	1'-4"	1'-6"	1'-4"									
S502	2	6"	1'-6"											
S503	S3	5"	2'-2"	8"	2'-2"									
S511	S3	5"	1'-1"	8"	1'-1"									
S512	S12	5"	1'-6"	8"	1'-6"									
S513	23	6"	9"	11 1/2"	2'-8 1/2"	7 5/8"							2 3/8"	3'-4"
JA501	17			2'-1"	1'-4"	2'-1"								
SA502	19		1'-1"	2'-11"					9"	9"				3'-8"
SA503	2	6"	2'-2"											
RE501	SP2		5'-7"											1'-4"



(15) NOT USED

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 - RADIUS DIMENSION "R" IS TO OUTSIDE OF BAR.
 - THE LENGTH OF BENT BARS IS MEASURED ALONG THE CENTERLINE.
 - FOR STANDARD HOOK DIMENSIONS, SEE SECT. 50905 OF THE SPECIFICATIONS.
 - FOR BAR TYPE SPI, THE "NO. OF TURNS" "D" IS THE LENGTH "C" DIVIDED BY THE PITCH "B", PLUS 3 TURNS (TOTAL NUMBER OF CLOSED COILS), EXPRESSED AS THE NEAREST WHOLE NUMBER. 1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT.

WHERE SLOPE IS 45° SHOW "H" ONLY OTHERWISE SHOW "H" AND "K"

ENLARGED VIEW SHOWING BAR BENDING DETAILS

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DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	OPK		DSM/JCH	JAD	8-19-66	