

DATE 2-13-85	DATE 2-28-85	DATE 2-28-85	DATE 2-28-85	FED. ROAD NO. 6	STATE ARK.	FED. AID PROJ. NO.	SHEET NO. 33	TOTAL SHEETS 177
JOB NO. 110065				2671R 2671AR - QUANT. 27010 6102 6103				

SCHEDULE OF BRIDGE QUANTITIES - JOB 110065

BRIDGE NO.	CODE NO.	NAME PLATE TITLE	UNIT OF BRIDGE	ITEM NO.	205	801	SP & 802	SP & 802	803	804	SP JOB 110065	* SP & 805	* SP & 805	* SP & 805	SP & 807	SP & 807	SP & 807
				ITEM UNIT	REMOVAL OF EXISTING BRIDGE STRUCTURES	UNCLASSIFIED EXCAVATION FOR STRUCTURES - BRIDGE	CLASS S CONCRETE	CLASS S(AE) CONCRETE	BOILED LINSEED OIL	REINFORCING STEEL (GRADE 60)	EPOXY COATED REINFORCING STEEL (GRADE 60)	PRECAST CONCRETE PILING (16" Oct. Or 14" Sq.)	PRECAST CONCRETE PILING (14" Sq.)	PRECAST CONCRETE PILING (18" Oct. or Sq.) Δ	STRUCTURAL STEEL IN BEAM SPANS (A36)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A36)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A572 - GR. 50)
					LUMP SUM	CU. YD.	CU. YD.	CU. YD.	GAL.	LB.	LB.	LIN. FT.	LIN. FT.	LIN. FT.	LB.	LB.	LB.
6102	X271	WEST MEMPHIS INTERCHANGE	BENT 1				77.01			7441		975				1856	
			BENT 2		118	102.73			14042		1500						
			BENT 3		122	109.69			13884		1650						
			BENT 4		132	105.60			13303		1450						
			BENT 5			56.67			4981		840					1252	
			532' CONT. PL. GIRDER UNIT				653.90	56.0	61869	83300					449092	247100	
TOTALS FOR BR. NO. 6102				0.46	372	451.70	653.90	56.0	115520	83300	6415				452200	247100	
6103	X271	WEST MEMPHIS INTERCHANGE	BENT 1				54.34			5241		770 630 Δ				2675	
			BENT 2		142	92.91			11076		1350						
			BENT 3		146	98.19			11649		1305						
			BENT 4			62.26			6063		840 700 Δ					3341	
			365' CONT. PL. GIRDER UNIT				450.30	38.7	42491	59250					303404	192720	
			TOTALS FOR BR. NO. 6103	0.54	288	307.70	450.30	38.7	76520	59250	4265 3985 Δ				309420	192720	
2671R	X171	RAILROAD OVERPASS	END BENTS 1 & 22				22.52			2072				396	1172		
			INT. BENTS 2, 3 & 4				29.89			4751				660			
			INT. BENTS 5, 6, 7 & 8				60.77			9426				800			
			INT. BENTS 9, 10, 11 & 12				67.47			10277				800			
			INT. BENTS 13, 14, 15, 16, 17 & 18				93.41			14423				1200			
			INT. BENTS 19, 20, & 21				29.70			4743				660			
			PIERS 1 & 2		80	100.04				7097			1000				
			45'-0" W-BM. SPANS				645.33	55.9	63670	68891					182121		
			47'-3 1/2" TRANSITION SPAN 1				59.29	5.1	6232	6319					18592		
			66'-6" TRANSITION SPAN 2				79.75	6.9	8535	9073					23120		
			42'-8 1/2" TRANSITION SPAN 3				49.31	4.2	5304	5404					15368		
			126'-6" CONT. W-BM. UNITS				302.12	26.2	27350	34943					72527		
			TOTALS FOR BR. NO. 2671R		80	403.80	1135.80	98.3	163880	124630		1000	4516	312900			
2671R	X171	MO-PAC OVERPASS	END BENTS 1 & 20				37.62			3378				792	1648		
			INT. BENTS 2 & 19				33.52			4656				720			
			INT. BENTS 3, 4, 5 & 6				118.90			16923				1200			
			INT. BENTS 7, 8, 9 & 10				129.38			18238				1200			
			INT. BENTS 11, 12, 13 & 14				130.50			18348				1200			
			INT. BENTS 15, 16, 17 & 18				117.44			16621				1200			
			PIERS 1 & 2		159	221.34				13199			2000				
			45'-0" W-BM. SPANS				1117.60	100.0	107901	129018					463413		
			36'-6" W-BM. SPANS				114.26	10.1	10149	10653					46970		
			45'-0" TRANSITION SPAN 1				78.10	7.0	8776	8973					40884		
			66'-6" TRANSITION SPAN 2				103.32	9.3	12164	12662					44402		
			45'-0" TRANSITION SPAN 3				62.92	5.7	6077	6194					25763		
			TOTALS FOR BR. NO. 2671R		159	788.70	1476.20	132.1	236430	167500		2000	6312	623080			
TOTALS FOR JOB 110065					899	1951.90	3716.20	325.1	592350	434680	10680 10400 Δ	3000	10828	935980	761620	439820	

* Refers to SP 802-5

SHEET 1 OF 2

SCHEDULE OF BRIDGE QUANTITIES

I-55/I-40 INTERCHANGE ALTERATIONS

CRITTENDEN, COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: D.H.P. DATE: 12-10-84

CHECKED BY: HJD DATE: 1-22-85 SCALE: None

DESIGNED BY: DATE:

2671R 2671AR

BRIDGE NO. 6102 6103 DRAWING NO. 27010

DALE F. LOE
DESIGN SECTION SUPERVISOR

Δ Revised Piling and Piling Quant., 2-28-85 D.H.P.

David Pinkerton
BRIDGE ENGINEER

SCHEDULE OF BRIDGE QUANTITIES - JOB 110065

BRIDGE NO.	CODE NO.	NAME PLATE TITLE	UNIT OF BRIDGE	ITEM NO	SP # 808	SP # 809	812	816	SP JOB 110065	SP JOB 110065	SP JOB 110065	** SP # 805		
				ITEM	ELASTOMERIC BEARINGS	PREFORMED JOINT SEALER	BRIDGE NAME PLATES (TYPE C)	CONCRETE RIPRAP	PAINTING EXISTING STRUCTURAL STEEL (TYPE II)	REMODELING EXISTING BRIDGE	FURNISHING AND REPLACING HANGER PLATES AND PINS	TEST PIECES (16" OCT. OR 14 SQ)		
6102	X271	WEST MEMPHIS INTERCHANGE	BENT 1					190				70		
			BENT 2											
			BENT 3											
			BENT 4											
			BENT 5					336					55	
			532' CONT. PL GIRDER UNIT											
TOTALS FOR BR. NO. 6102			0.56			1	526				125			
6103	X271	WEST MEMPHIS INTERCHANGE	BENT 1					275				75		
			BENT 2											
			BENT 3										50	
			BENT 4					243						
			365' CONT. PL GIRDER UNIT											
			TOTALS FOR BR. NO. 6103	0.44			1	518				125		
2671AR	X171	MO-PAC RAILROAD OVERPASS	END BENTS 1 & 22											
			INT. BENTS 2, 3 & 4											
			INT. BENTS 5, 6, 7 & 8											
			INT. BENTS 9, 10, 11 & 12											
			INT. BENTS 13, 14, 15, 16, 17 & 18											
			INT. BENTS 19, 20, & 21											
			PIERS 1 & 2											
			45'-0" W-BM. SPANS											
			47'-3 1/2" TRANSITION SPAN 1											
			66'-6" TRANSITION SPAN 2											
			42'-8 1/2" TRANSITION SPAN 3											
			126'-6" CONT. W-BM. UNITS											
			TOTALS FOR BR. NO. 2671AR		764		1		0.5	0.5	1			
			2671R	X171	MO-PAC RAILROAD OVERPASS	END BENTS 1 & 20								
INT. BENTS 2 & 19														
INT. BENTS 3, 4, 5 & 6														
INT. BENTS 7, 8, 9 & 10														
INT. BENTS 11, 12, 13 & 14														
INT. BENTS 15, 16, 17 & 18														
PIERS 1 & 2														
45'-0" W-BM. SPANS														
36'-6" W-BM. SPANS														
45'-0" TRANSITION SPAN 1														
66'-6" TRANSITION SPAN 2														
45'-0" TRANSITION SPAN 3														
TOTALS FOR BR. NO. 2671R		1292					1		0.5	0.5	2			
TOTALS FOR JOB 110065						1	2056		4	1044		1	1	3

** Refers to SP 802-5 & SP 805-2

SHEET 2 OF 2

SCHEDULE OF BRIDGE QUANTITIES
I-55/I-40 INTERCHANGE ALTERATIONS
CRITTENDEN COUNTY

ROUTE SEC. ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: D.H.P. **DATE:** 12-10-84

CHECKED BY: HJD **DATE:** 1-22-85 **SCALE:** None

DESIGNED BY: _____ **DATE:** _____

BRIDGE NO. 2671R 2671AR
6102 6103 **DRAWING NO.** 2701!

DALE F. LOE
DESIGN SECTION SUPERVISOR

Beryl Pinkerton
BRIDGE ENGINEER

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTC STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1983
WITH CURRENT INTERIM SPECIFICATIONS.

LIVE LOAD: HS 20 OR AN ALTERNATE MILITARY LOADING OF TWO AXLES FOUR FEET APART WITH EACH AXLE WEIGHING 24,000 LBS., WHICH EVER PRODUCES THE GREATEST STRESS.

METHOD OF DESIGN: LOAD FACTOR

DETAIL DRAWINGS:

DRAWING NO.

END BENTS
INTERMEDIATE BENTS
SPANS
EXCAVATION FOR STRUCTURES
EMBANKMENT CONSTRUCTION
PILING
PERMANENT STEEL BRIDGE DECK FORMS
GUARD RAIL CONNECTION
APPROACH GUTTERS & SLABS
TYPE C BRIDGE NAME PLATES
ELASTOMERIC BEARINGS
CONCRETE RIPRAP

27030 → 27033
27034, 27035
27036 → 38, 27025 → 28
1891F
1888A
2383
14991
GR-8A
27071, 27072
2389A
27070
27028

CONCRETE PILING: PILING FOR BENTS 1 - 4 SHALL BE 16" OCTAGONAL OR 14" SQUARE PRECAST CONCRETE AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE AND TO A MINIMUM PENETRATION OF 2.0 FT. BELOW NATURAL GROUND AT BENTS 1 & 4 AND 20 FT. INTO NATURAL GROUND AT BENTS 2 & 3. DRIVE ONE 75 FT. TEST PILE IN BENT 1, ONE 50 FT. TEST PILE IN BENT 3. SEE SP 805-2. PILES IN END BENTS TO BE DRIVEN AFTER EMBANKMENT TO BOTTOM OF CAP IS IN PLACE. PILE SHAPES SHALL NOT BE MIXED ON ANY BRIDGE.

EXISTING BRIDGE: REMOVE THE EXISTING BRIDGE NO. 3125 AFTER THE NEW BRIDGE IS COMPLETE AND OPENED TO TRAFFIC. EXISTING BRIDGE NO. 3125 IS 28 FT. WIDE BY 459 FT. LONG. THE SUPERSTRUCTURE CONSISTS OF 7-COMP. I-BEAM SPANS (60'-60'-60'-95'-60'-60'-60'). THE SUBSTRUCTURE CONSISTS OF 2-PILE END BENTS AND 6-COLUMN BENTS ON FOUNDATION PILING. SEE SECTION 205 OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING ITEMS SHALL BE SALVAGED AND REMAIN THE PROPERTY OF THE STATE .
ALL OTHER MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UPON COMPLETION
OF THE PROJECT .

BRIDGE NO. 3125-

STRUCTURAL STEEL:
30 - 36" WF 150 #/FT. X 60' LONG
5 - 36" WF 230 #/FT. X 95' LONG
60 - 15" DIAPHRAGMS
56 - SPLIT "T" STRUTS

ALUMINUM BRIDGE RAIL & POST
914 L.F. 3-1/2" Ø RAIL
914 L.F. 4-1/2" Ø RAIL
104 EACH RAIL POST

SPRAYED CONCRETE FINISH: THIS BRIDGE SHALL RECEIVE A SPRAYED CONCRETE FINISH. SEE SP 802-7.



Note: ~~Existing Bridge~~
 @ M.T. Ramp is a 3'00' Curve. Longitudinal lines shall be constructed on curves concentric with @ M.T. Ramp. All bents to be skewed from radial lines as shown.



BORING LOG

A - Med. Firm Gray Clay-moist
B - Med. Soft Gray Clay-wet
C - Med. Firm Gray Clay-wet
D - Fine Gray Water Bearing Sand-Comp.
E - Med. Fine Gray Water Bearing Sand-Comp.
F - Med. Soft Brown Sandy Clay-wet

LAYOUT OF M.T. RAMP BRIDGE OVER L.M. RAMP
I-55/I-40 INTERCHANGE A' TERTATIONS
CRITTENDEN COUNTY
ROUTE 55 SEC. 11

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK

DRAWN BY: H. Maj. DATE: 6-8-84
CHECKED BY: HJD DATE: 8-22-84
DESIGNED BY: MEC DATE: 6-6-84

SCALE: $1'' = 30'$

BRIDGE NO. 6103

DRAWING NO. 27029

Wesley Pinkerton
BRIDGE ENGINEER

Note: Wings to be constructed on arcs concentric to E.M.T. Ramp.

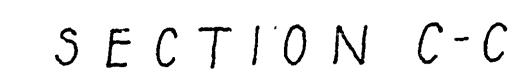
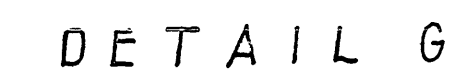
BAR LIST



(Looking Back

74-B501 sp. @ 9" o.c. in each face of backwall

67 - B408 sp @ q¹ o.c. in paving bracket


$$\frac{1}{2}^n = 1 - 0^n$$


N.T.S



N.T.S

[illegible]

Dimens. are out to out of bars.

SHEET 1 OF 2

DETAILS OF END BENT 1

M.T. RAMP BRIDGE OVER L.M. RAMP
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

1 M 11-29-84

DRAWN BY: L.M. DATE: 11-29-84
CHECKED BY: MEC DATE: 1-18-85
DESIGNED BY: D.H.P. DATE: 10-18-84

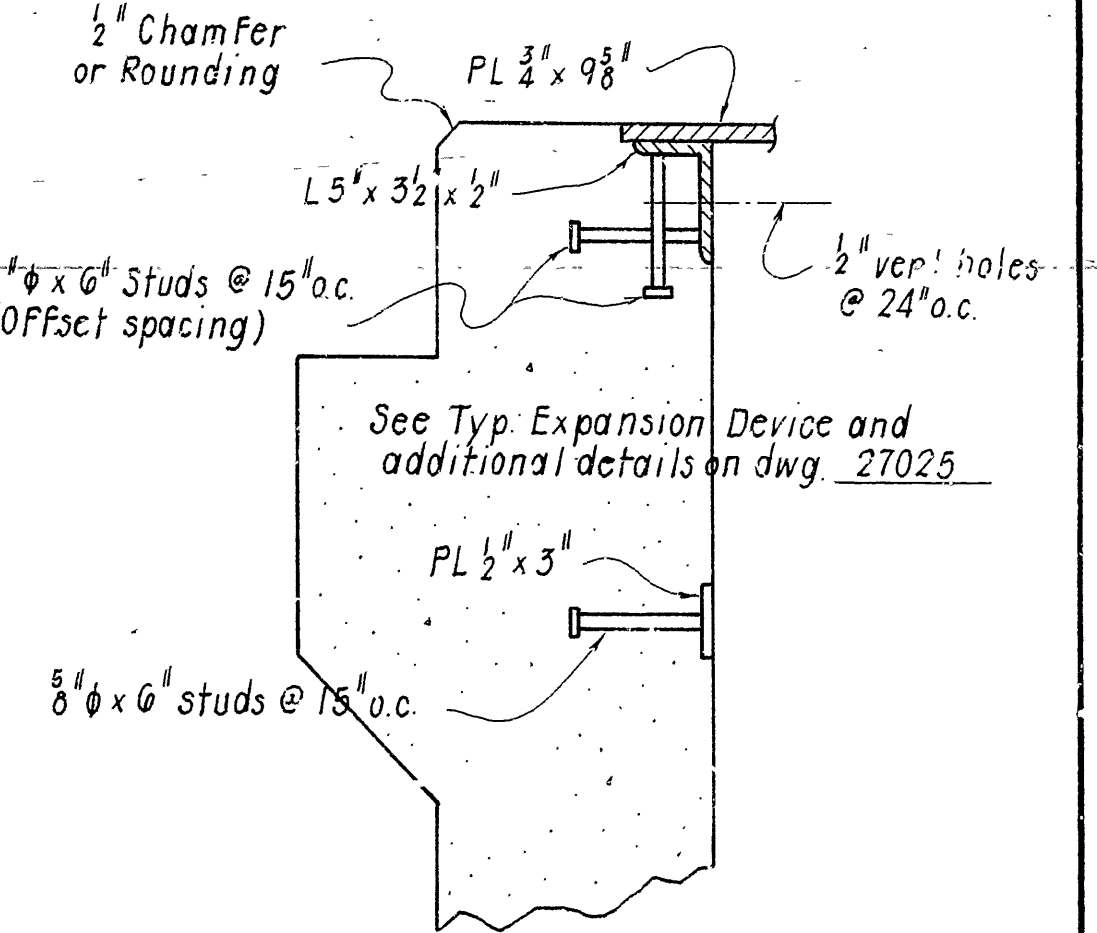
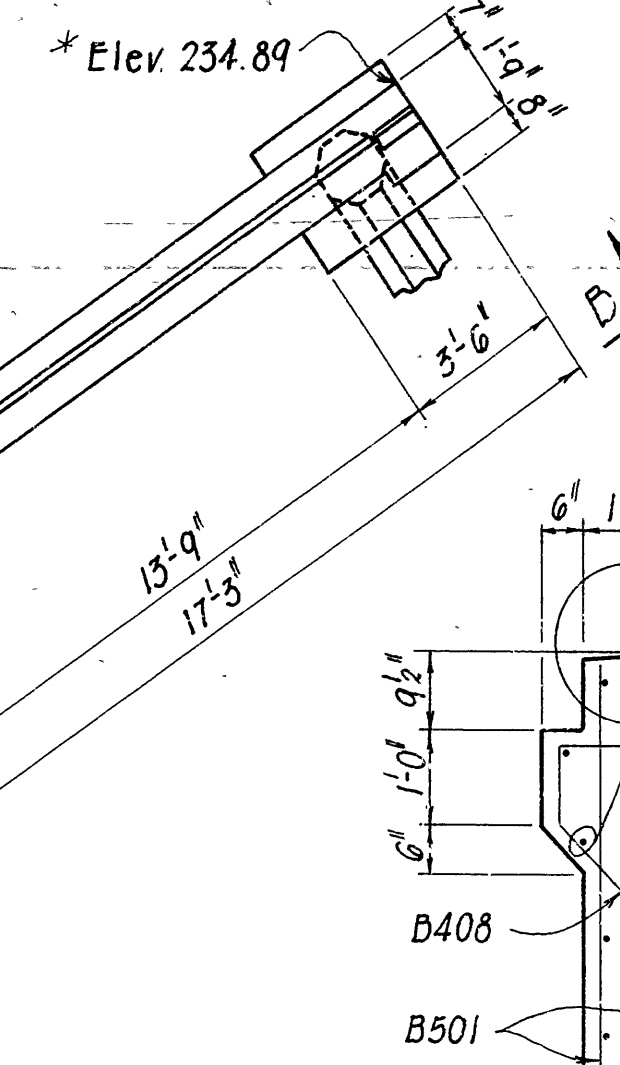
SCALE: 4" = 1'-0" or as shown

BRIDGE NO. 613

DRAWING NO. 27030

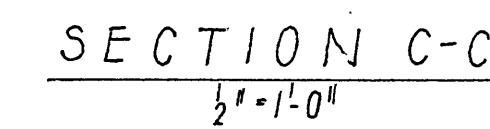
Note: Wings to be constructed on arcs concentric to C.M.T. Ramp

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		110065	62	177
				6103	END BENT	27032		

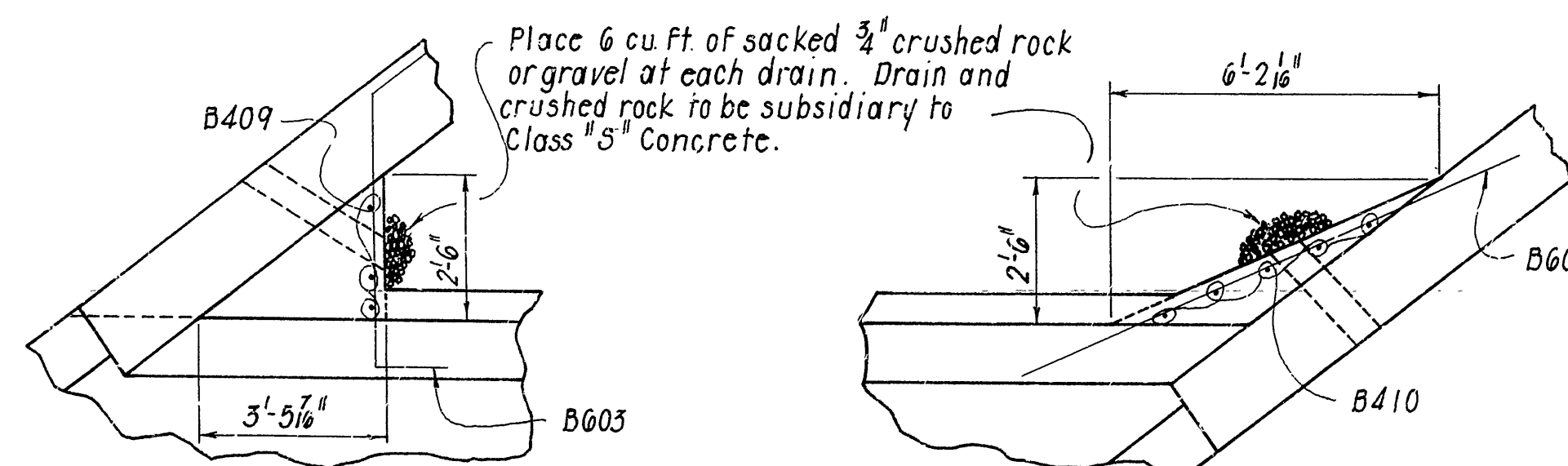


DETAIL Y
N.T.S

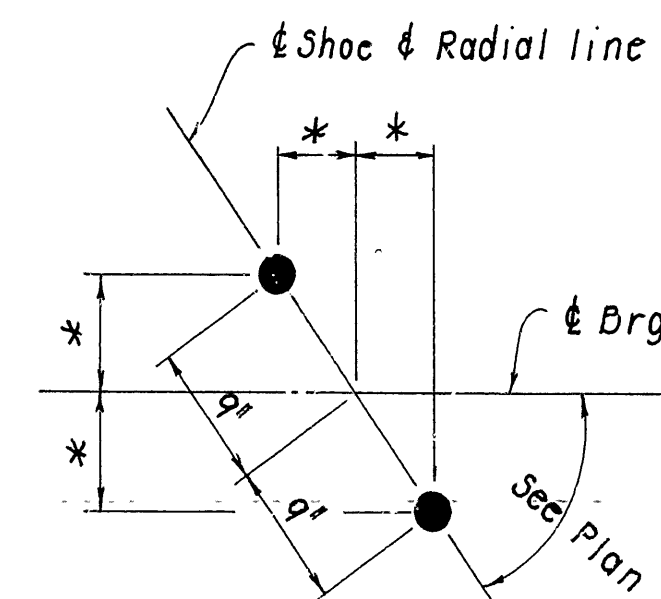
P L A N
Looking Forward



ELEVATION

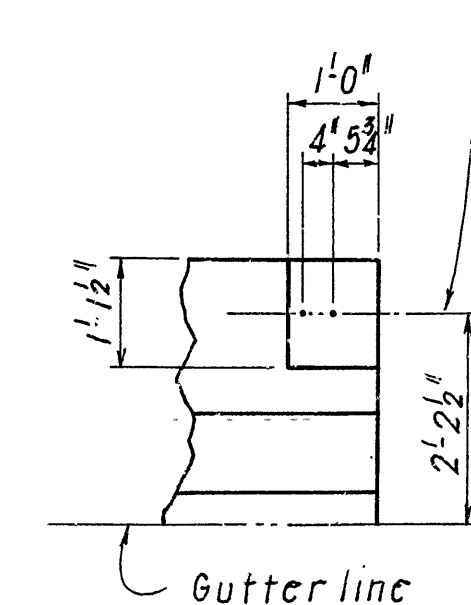


DETAIL X
N.T.S



* These dimensions vary with respect to the given angles shown on Plan View.

ANCHOR BOLT LOCATION (TYP.)
N.T.S.



CONNECTION DETAIL
N.T.S.

For General Notes, see dwg. 27031

SHEET 1 OF 2
DETAILS OF END BENT 4
M.T. RAMP BRIDGE OVER L.M. RAMP
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION

DRAWN BY: L. M. DATE: 12-12-84
CHECKED BY: THSC DATE: 1-21-85
DESIGNED BY: D.H.P. DATE: 12-12-84

DRAWN BY: L.M. DATE: 12-12-84
 CHECKED BY: MEC DATE: 1-21-85
 DESIGNED BY: D.H.P. DATE: 12-12-84

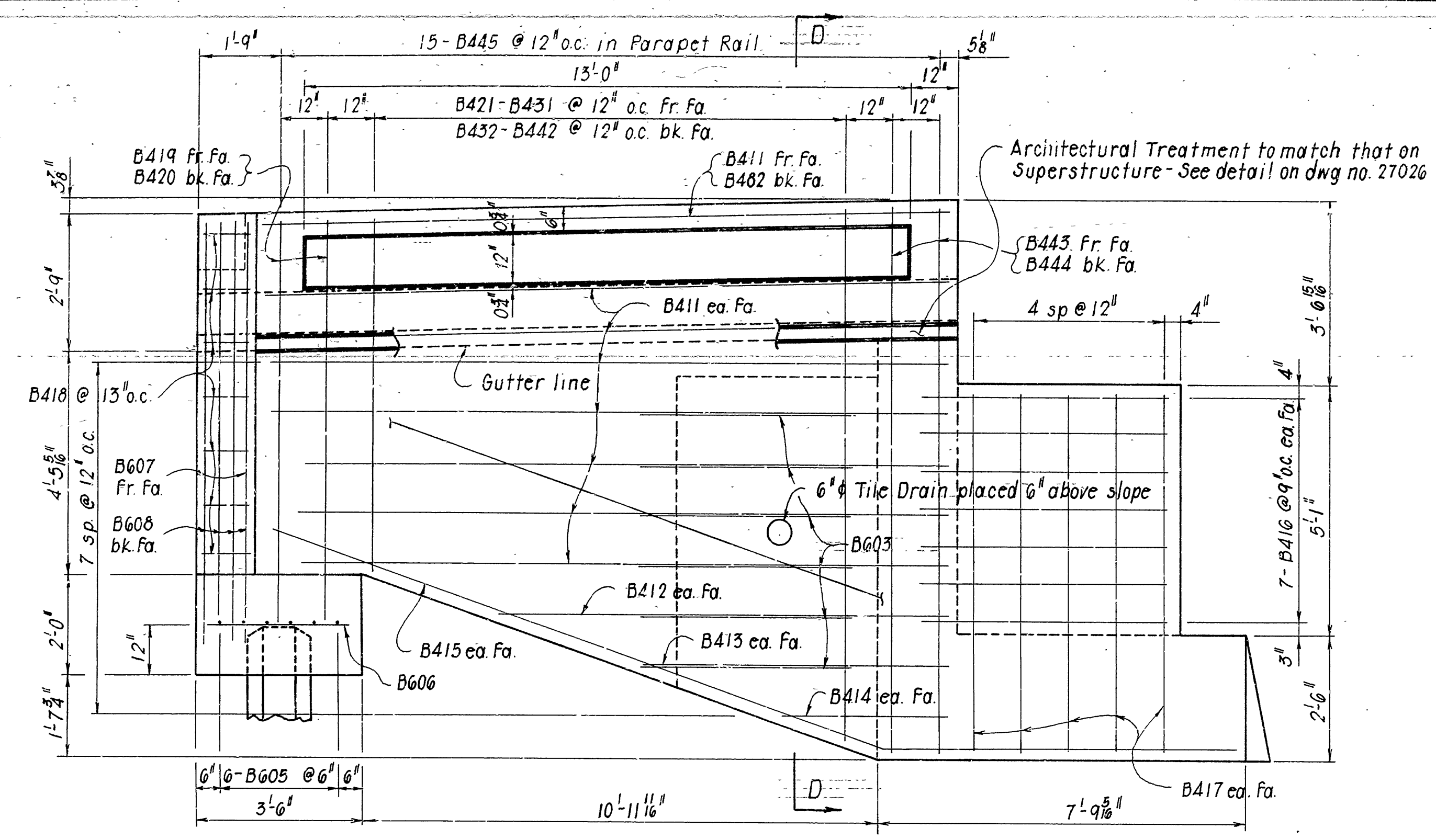
SCALE: 4" = 1'-0" or as shown

BRIDGE NO. 6103

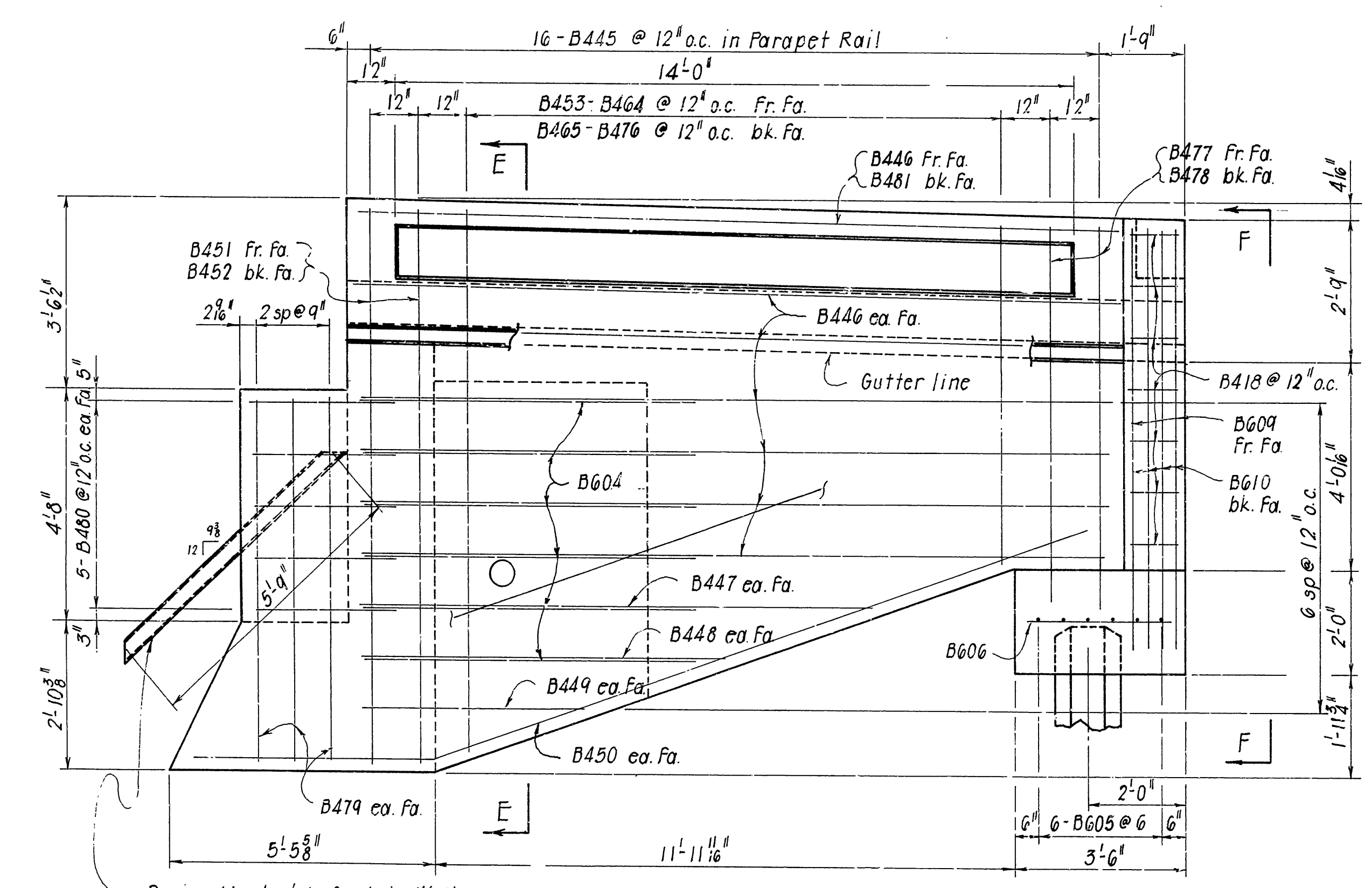
DRAWING NO. 27032

Feral Pinkerton
BRIDGE ENGINEER

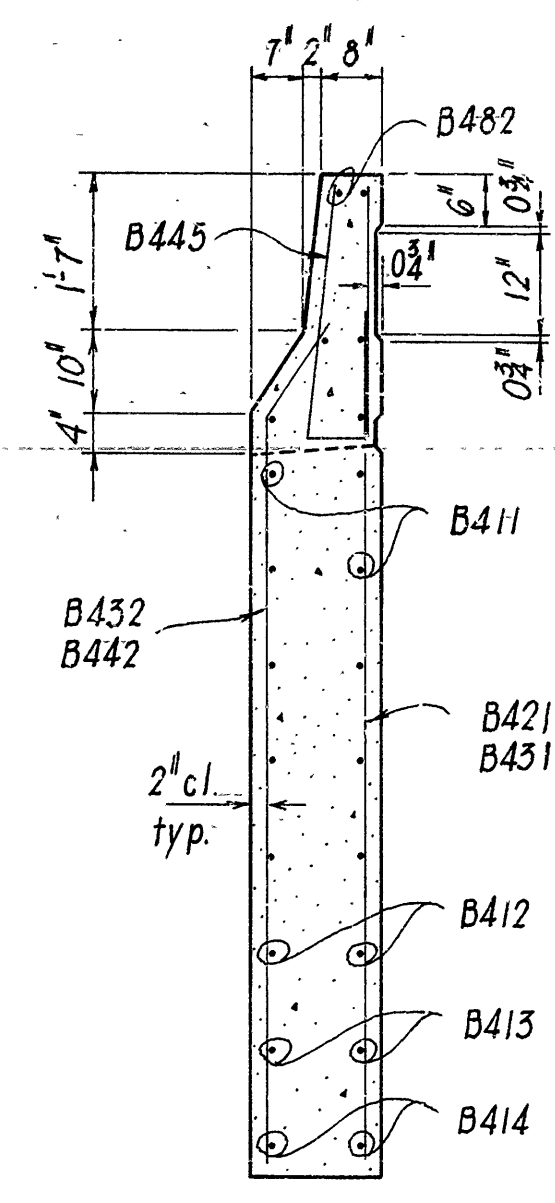
DATE	FILED	DATE	FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	110065		63	177
				6103	END BENT	27033		



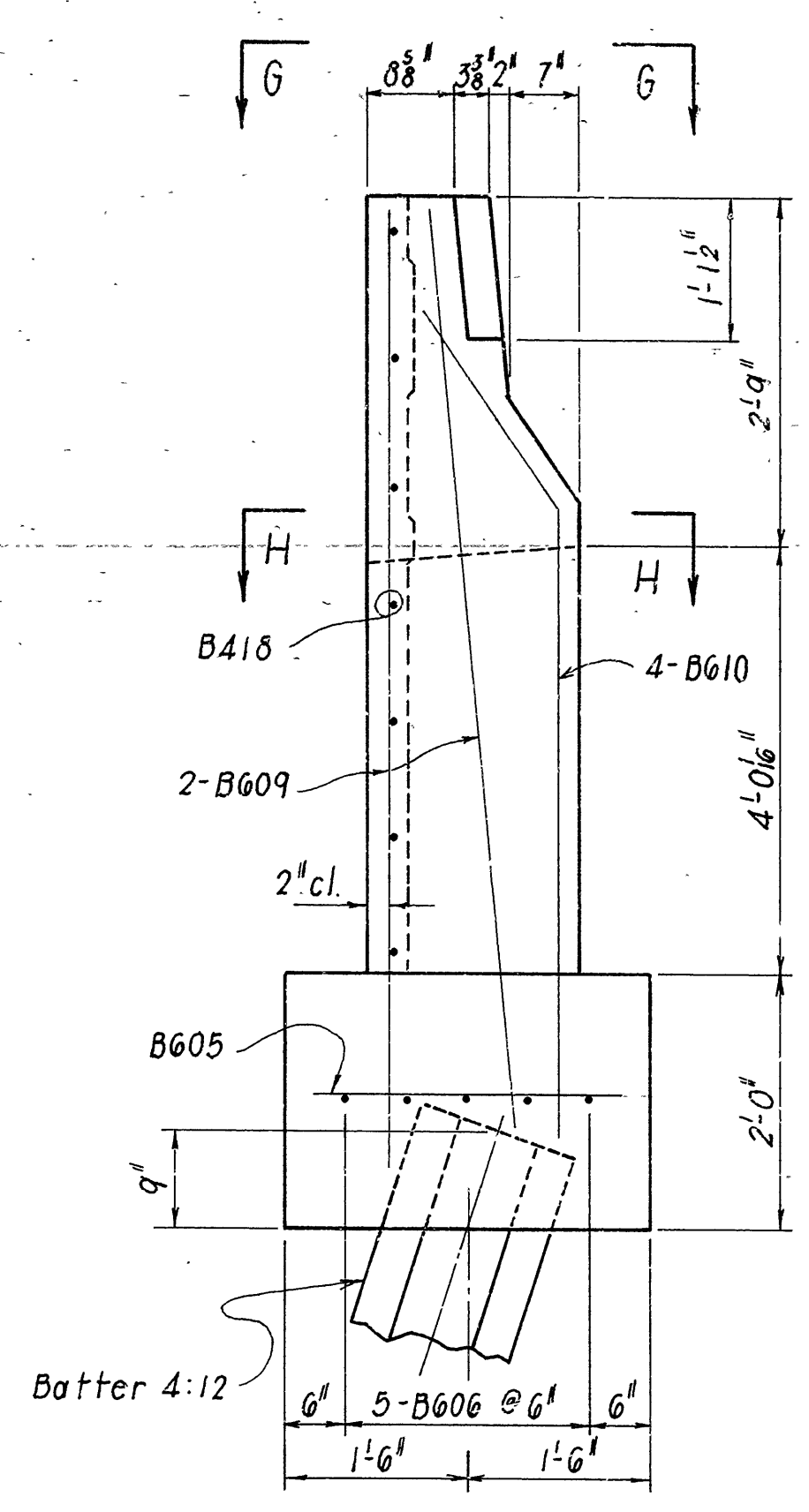
VIEW A-A
1/2" = 1'-0"



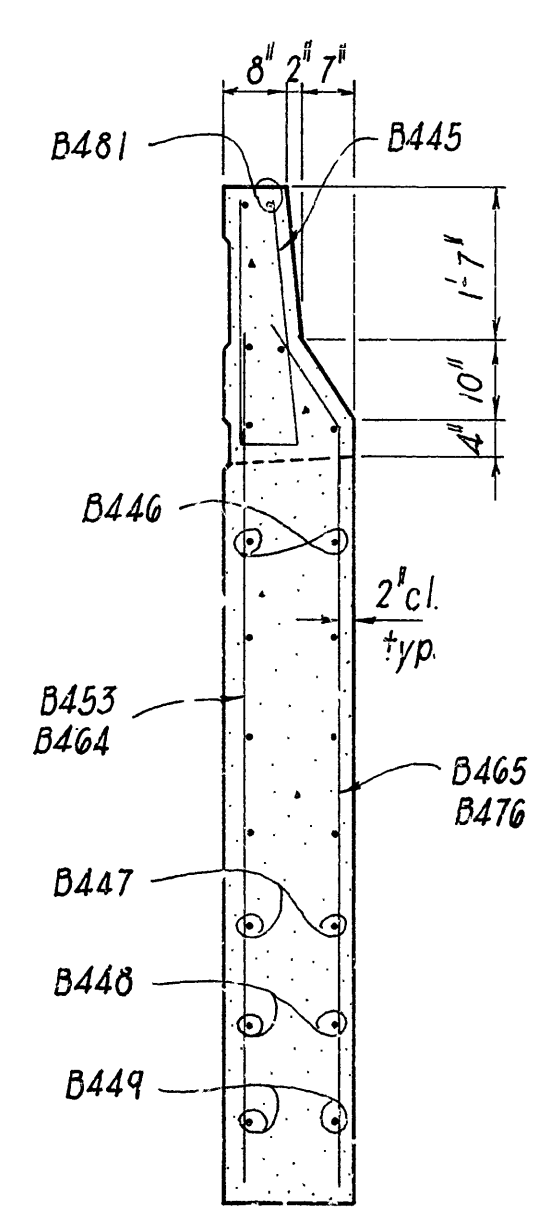
VIEW B-B
1/2" = 1'-0"



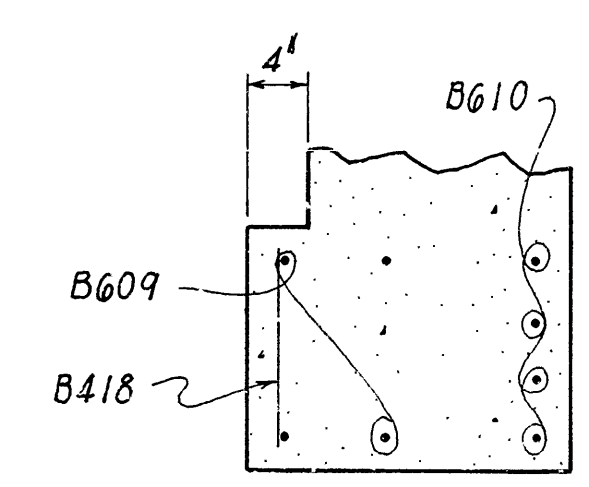
SECTION D-D
1/2" = 1'-0"



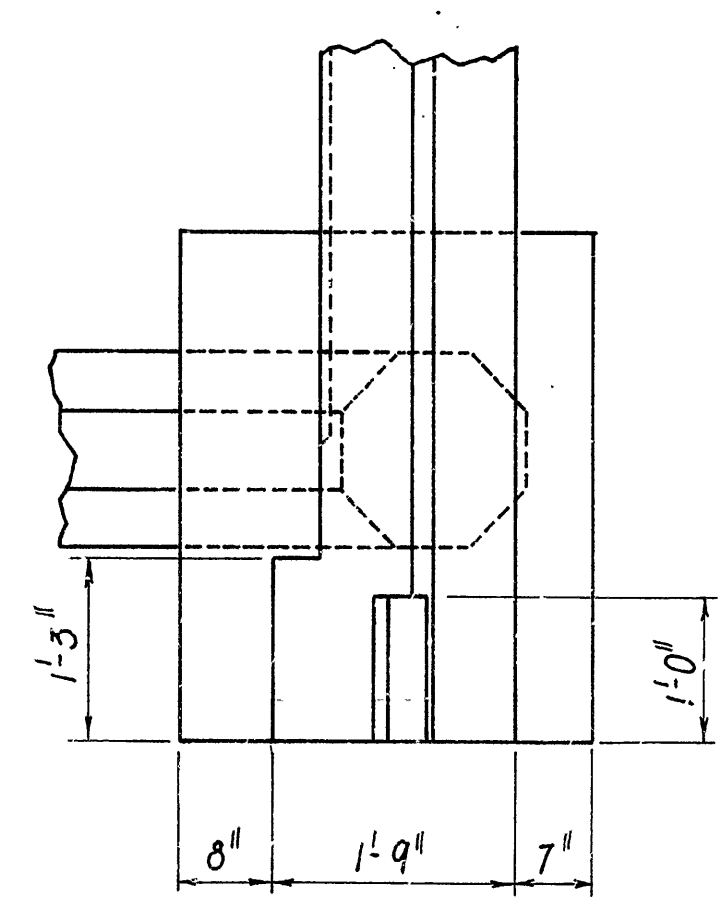
VIEW F-F
3/4" = 1'-0"



SECTION E-E
1/2" = 1'-0"

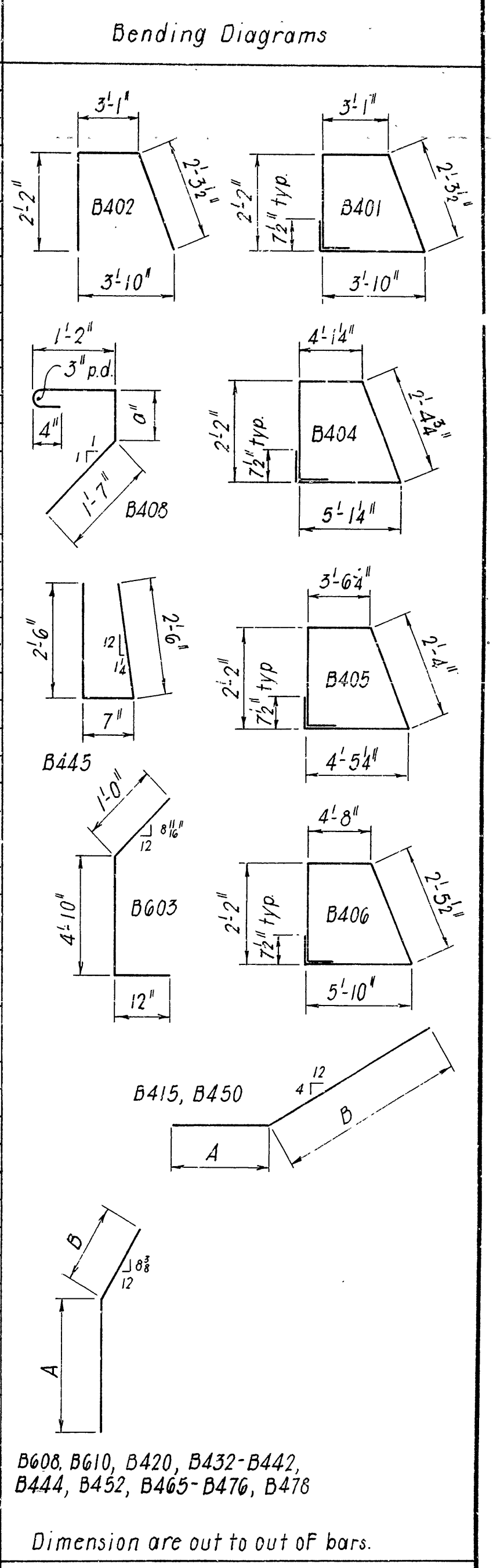


SECTION H-H
1" = 1'-0"



VIEW G-G
3/4" = 1'-0"

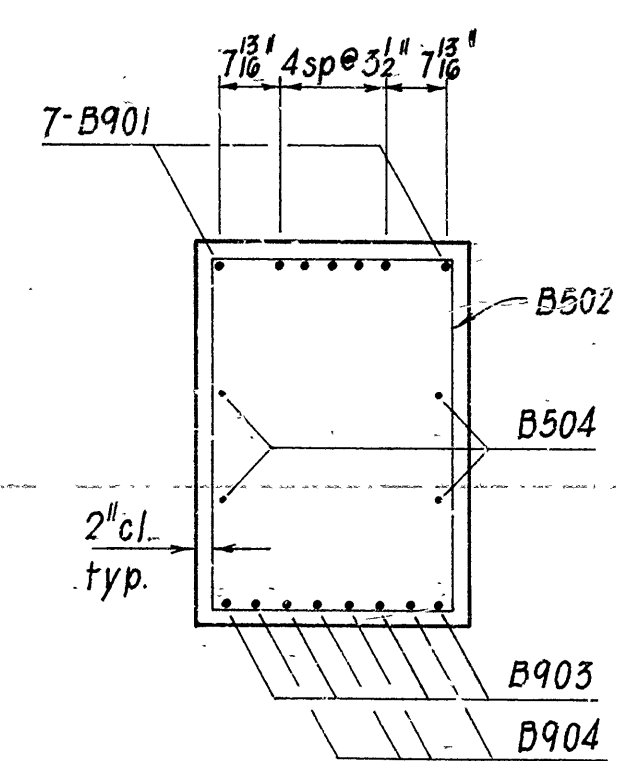
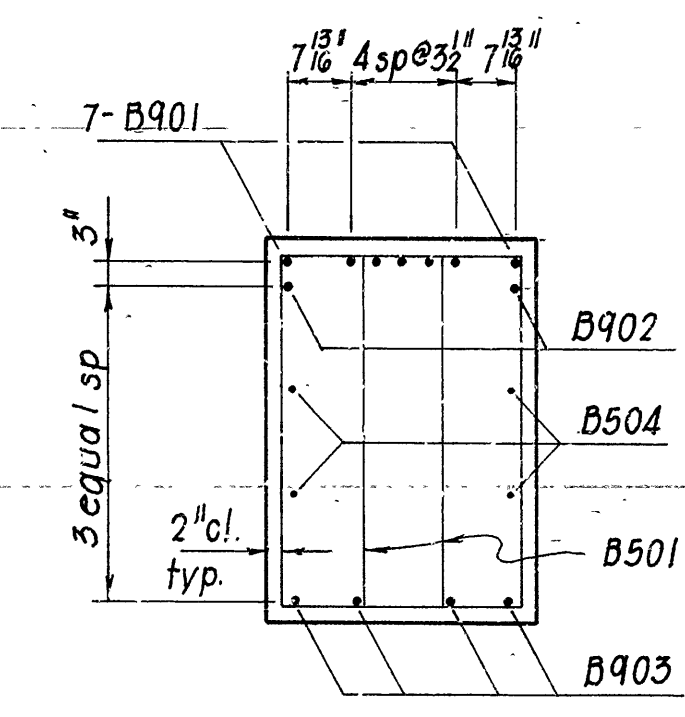
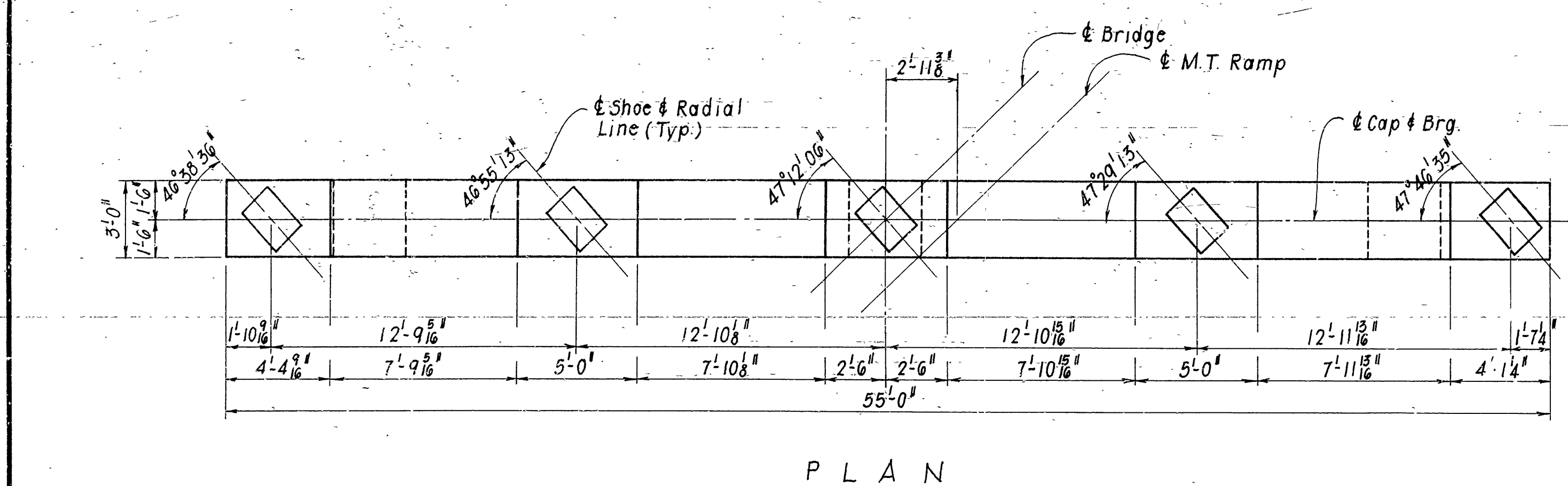
BAR LIST					
Mark	No. Req'd	Length	A	B	Pin Dia.
B601	12	44'-6"			Str.
B602	12	33'-0"			Str.
B603	6	6'-8"			3/4"
B604	6	9'-6"			Str.
B605	12	2'-6"			Str.
B606	10	3'-0"			Str.
B607	4	8'-8"			Str.
B608	4	8'-5"	6'-3"	2'-2"	3/4"
B609	4	8'-1"			Str.
B610	4	8'-0"	5'-10"	2'-2"	3/4"
B501	186	7'-4"			Str.
B401	80	12'-3"			2"
B402	30	7'-5"			2"
B403	4	37'-10"			Str.
B404	1	14'-7"			2"
B405	2	13'-4"			2"
B406	1	16'-0"			2"
B407	24	37'-10"			Str.
B408	85	3'-11"			2"
B409	3	6'-0"			Str.
B410	5	5'-9"			Str.
B411	15	15'-10"			Str.
B412	2	9'-8"			Str.
B413	2	6'-8"			Str.
B414	2	3'-8"			Str.
B415	2	20'-10"	7'-7"	13'-3"	2"
B416	14	5'-6"			Str.
B417	10	7'-3"			Str.
B418	14	11"			Str.
B419	2	6'-8"			Str.
B420	2	7'-3"	5'-9"	1'-6"	2"
B421-B431	1 ca.	5'-4" to 8'-8"			Str.
B432-B442	1 ca.	6'-2" to 9'-6"	4'-8" to 8'-0"	1'-6"	2"
B443	2	9'-3"			Str.
B444	2	10'-0"	8'-6"	1'-6"	2"
B445	31	5'-5"			2"
B446	12	16'-11"			Str.
B447	2	10'-8"			Str.
B448	2	7'-8"			Str.
B449	2	4'-8"			Str.
B450	2	19'-8"	5'-3"	14'-5"	2"
B451	2	9'-2"			Str.
B452	2	9'-11"	8'-5"	1'-6"	2"
B453-B464	1 ca.	4'-11" to 8'-11"			Str.
B465-B476	1 ca.	5'-8" to 9'-8"	4'-2" to 8'-2"	1'-6"	2"
B477	2	6'-3"			Str.
B478	2	6'-10"	5'-4"	1'-6"	2"
B479	6	7'-2"			Str.
B480	10	3'-0"			Str.
B481	1	15'-11"			Str.
B482	1	14'-10"			Str.



SHEET 2 OF 2
DETAILS OF END BENT 4
M.T. RAMP BRIDGE OVER L.M. RAMP
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: L.M. DATE: 12-19-84
CHECKED BY: M.E.C. DATE: 1-21-85
DESIGNED BY: D.H.P. DATE: 12-12-84
BRIDGE NO. 6103 DRAWING NO. 27033

64

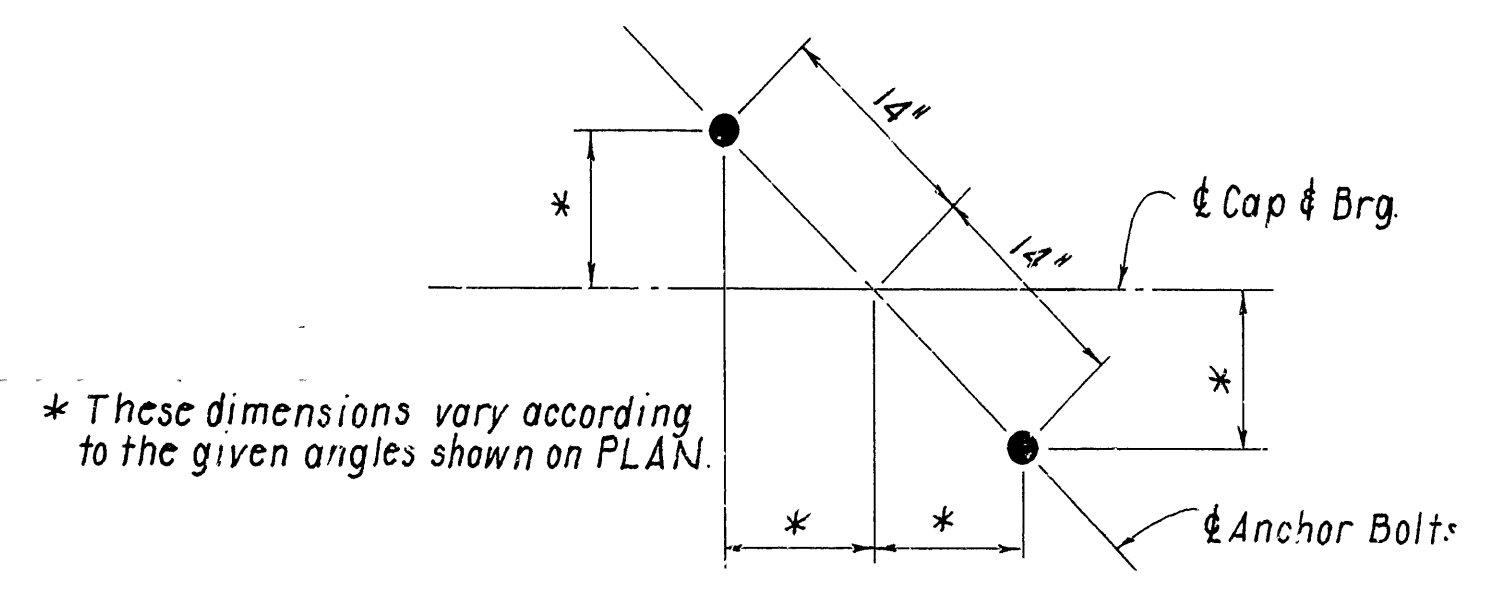
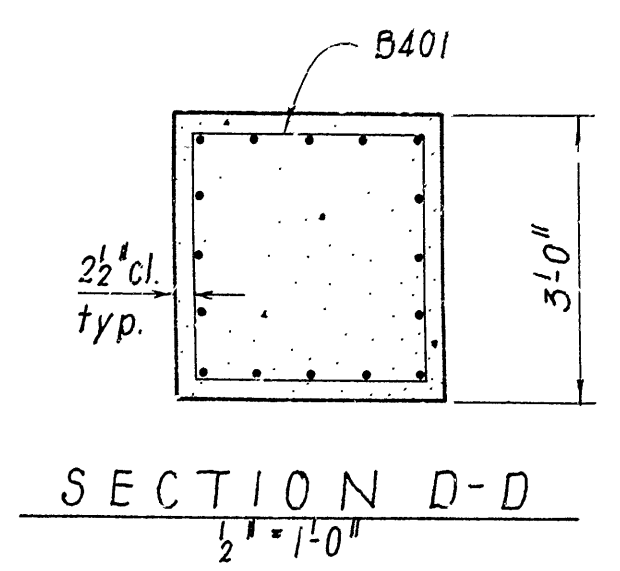
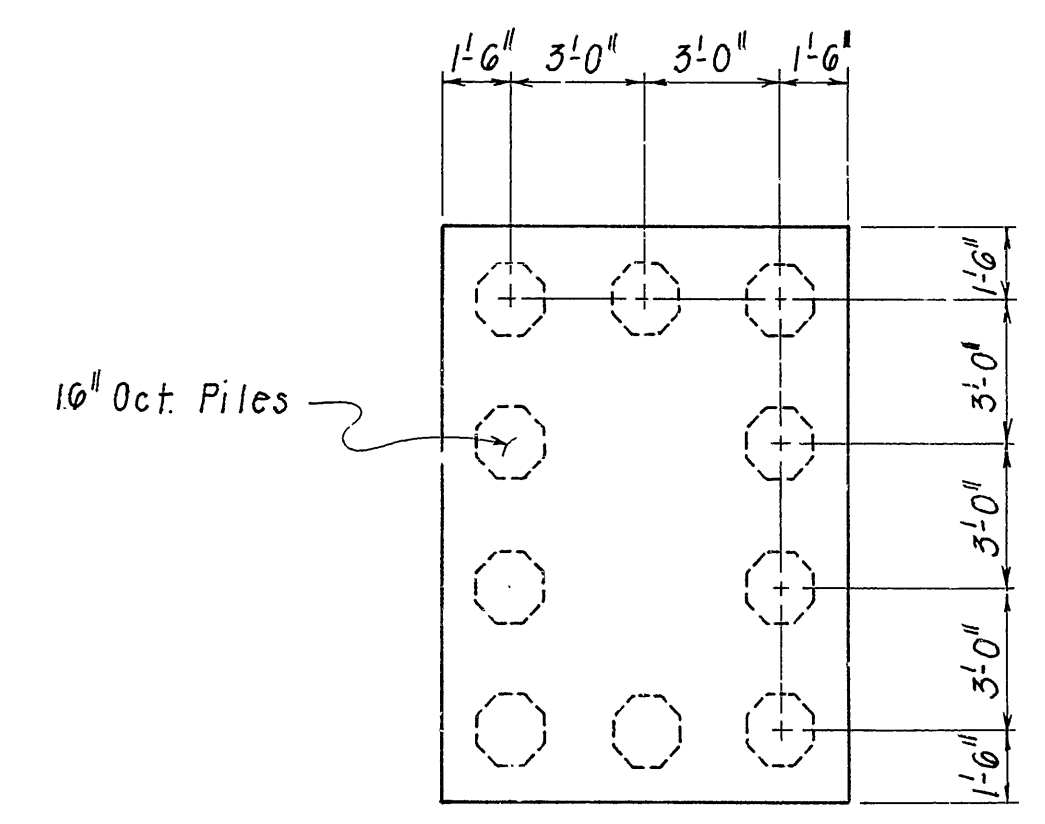
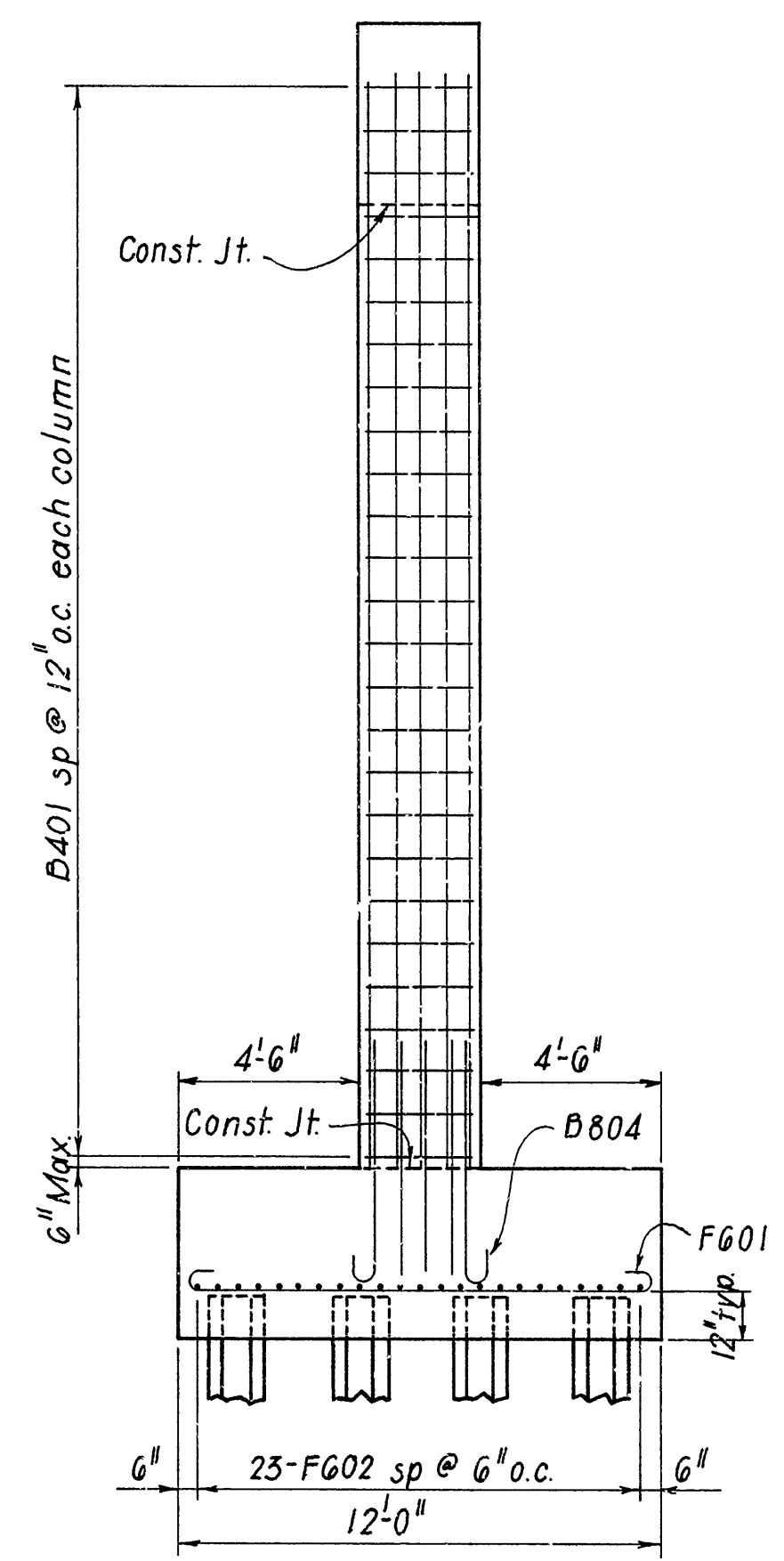
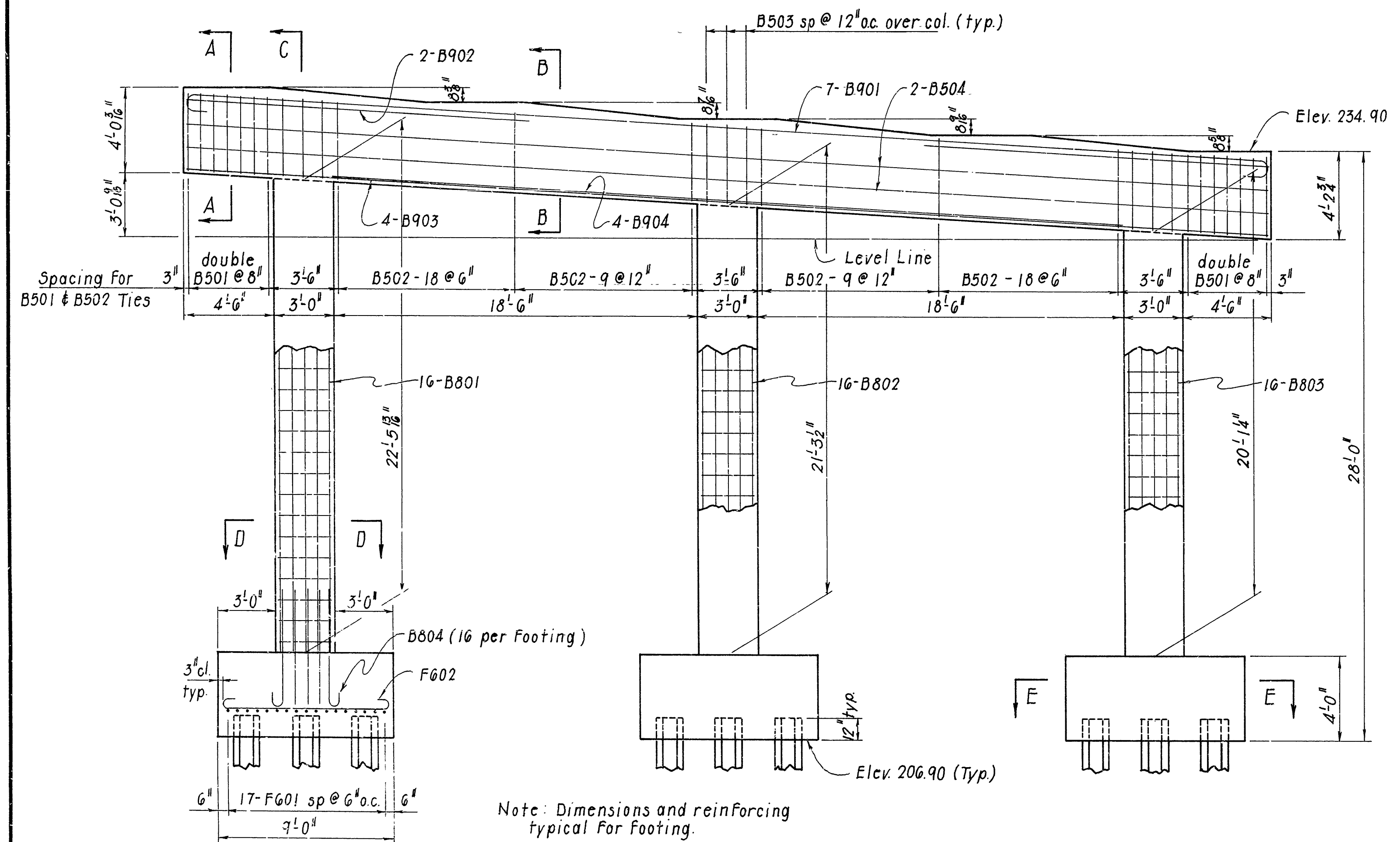
DATE	REVISED	DATE	REVISED	DATE	REVISED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
						6	ARK.			
						JOB NO.		110065	64	177
						6103		BENT 27034		



BAR LIST

Mark	No. Req'd	Length	A	B	Pin Dia.	Bending Diagram
B901	7	57'-2"	54'-8"	10"	q"	
B902	4	17'-6"			Str.	
B903	4	54'-8"			Str.	
B904	4	40'-0"			Str.	
B801	16	25'-3"			Str.	
B802	16	24'-3"			Str.	
B803	16	23'-3"			Str.	
B804	48	8'-3"	7'-4"	8"	6"	
F601	51	12'-10"	11'-6"	6"	4 1/2"	
F602	69	9'-10"	8'-6"	6"	4 1/2"	
B501	28	11'-10"	1'-9"	3'-8"	2 1/2"	
B502	56	13'-8"	2'-8"	3'-8"	2 1/2"	
B503	9	9'-9"	2'-8"	3'-8"	2 1/2"	
B504	4	54'-8"			Str.	
B401	75	11'-2"	2'-7"	2'-7"	2"	

Dimens. are out to out of bars.

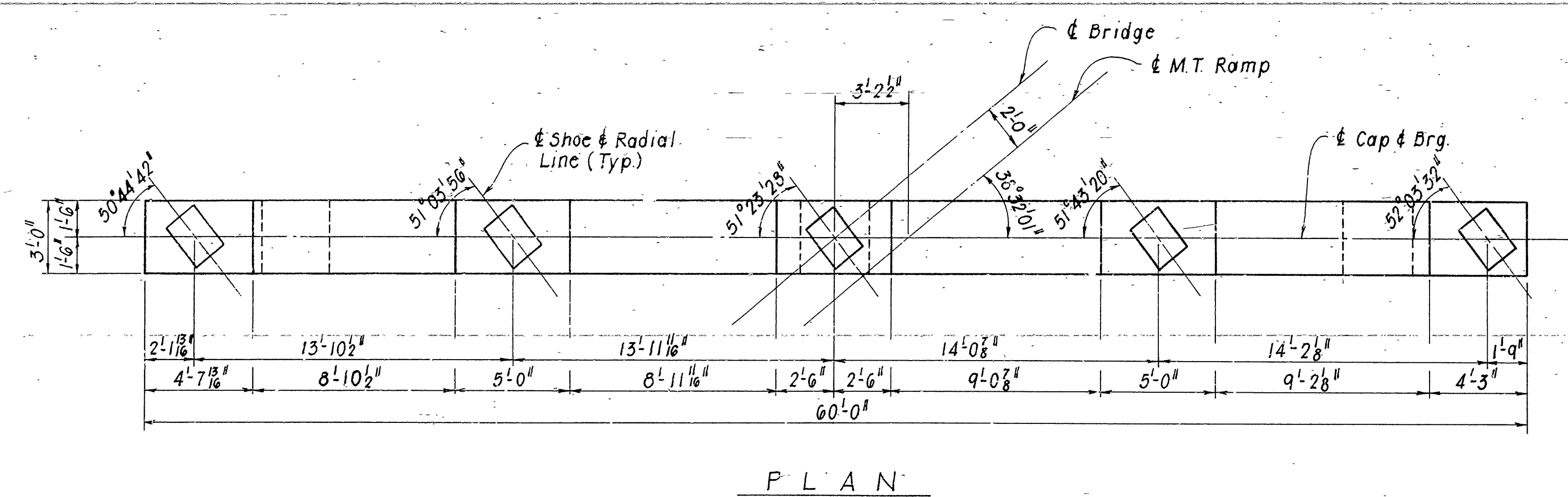


For General Notes, see dwg. 27035

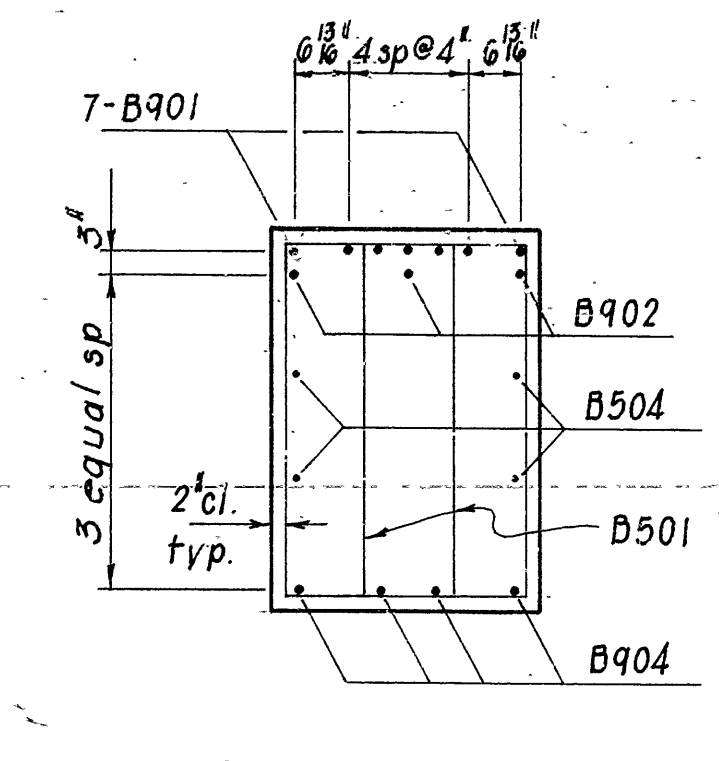
DETAILS OF INT. BENT 2
M.T. RAMP BRIDGE OVER L.M. RAMP
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: L.M. DATE: 11-8-84
CHECKED BY: H.J.D. DATE: 1-16-85
DESIGNED BY: D.H.P. DATE: 10-18-84
SCALE: 1/4" = 1'-0" or as shown
BRIDGE NO. 6103 DRAWING NO. 27034

Visual
BRIDGE ENGINEER

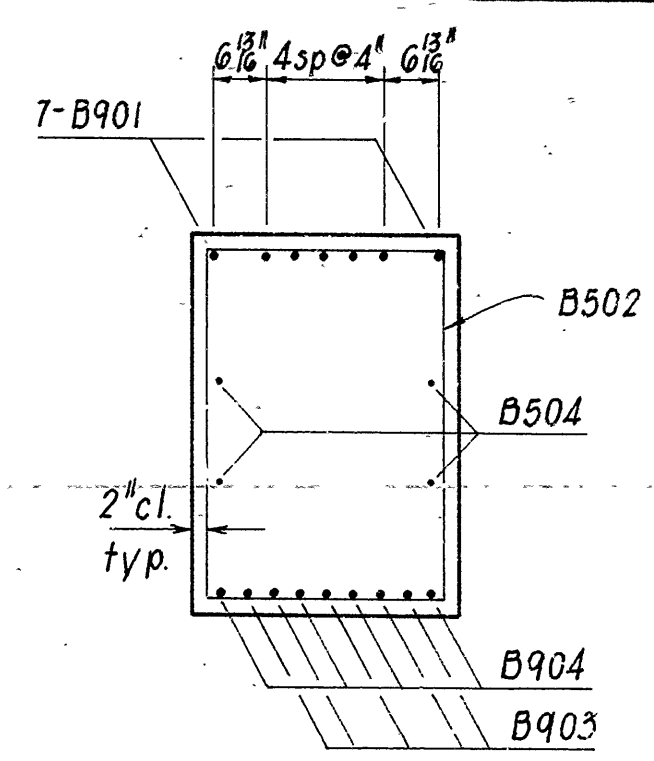
REVISED	DATE	REVISED	DATE	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	110065	65	177	
				6103	BENT	27035		



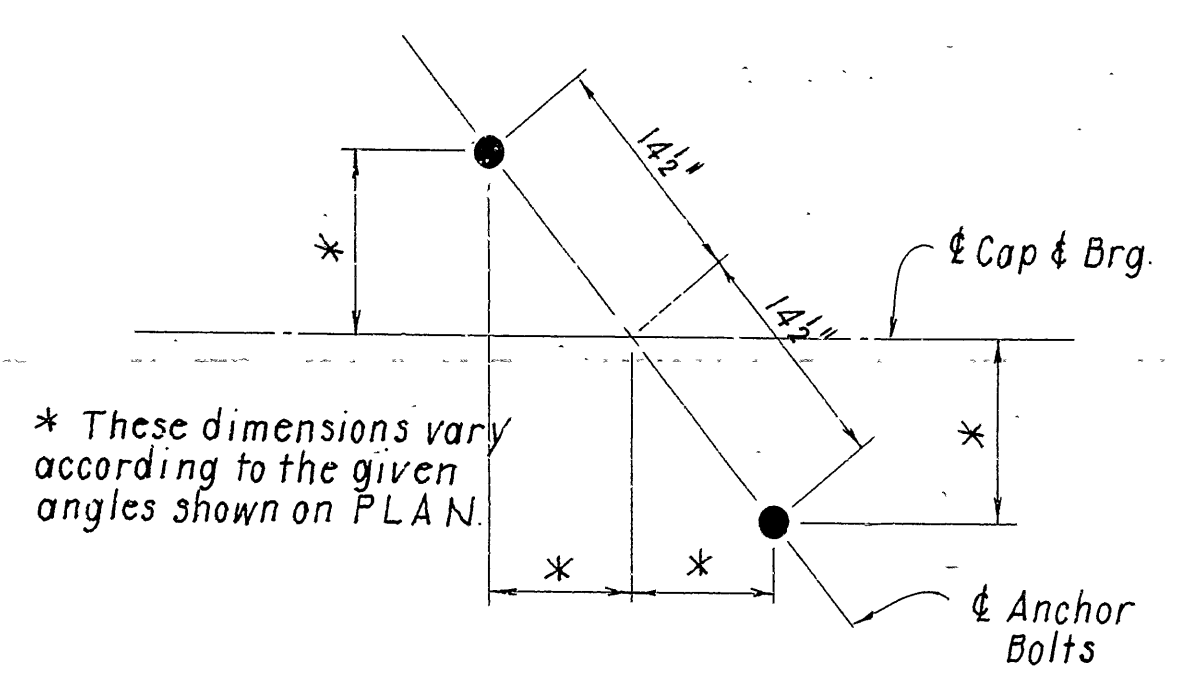
PLAN



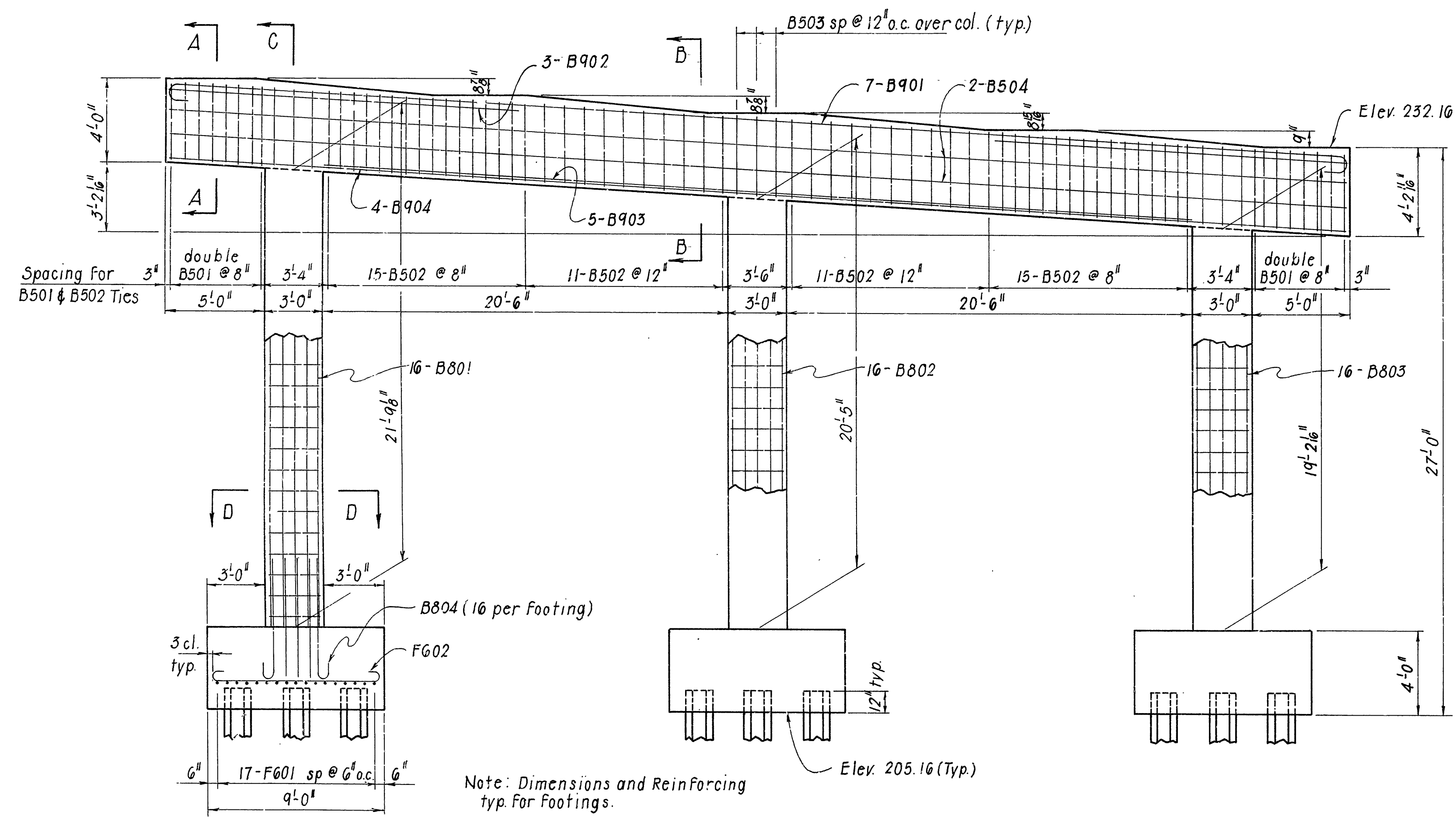
SECTION A-A
1/2" = 1'-0"



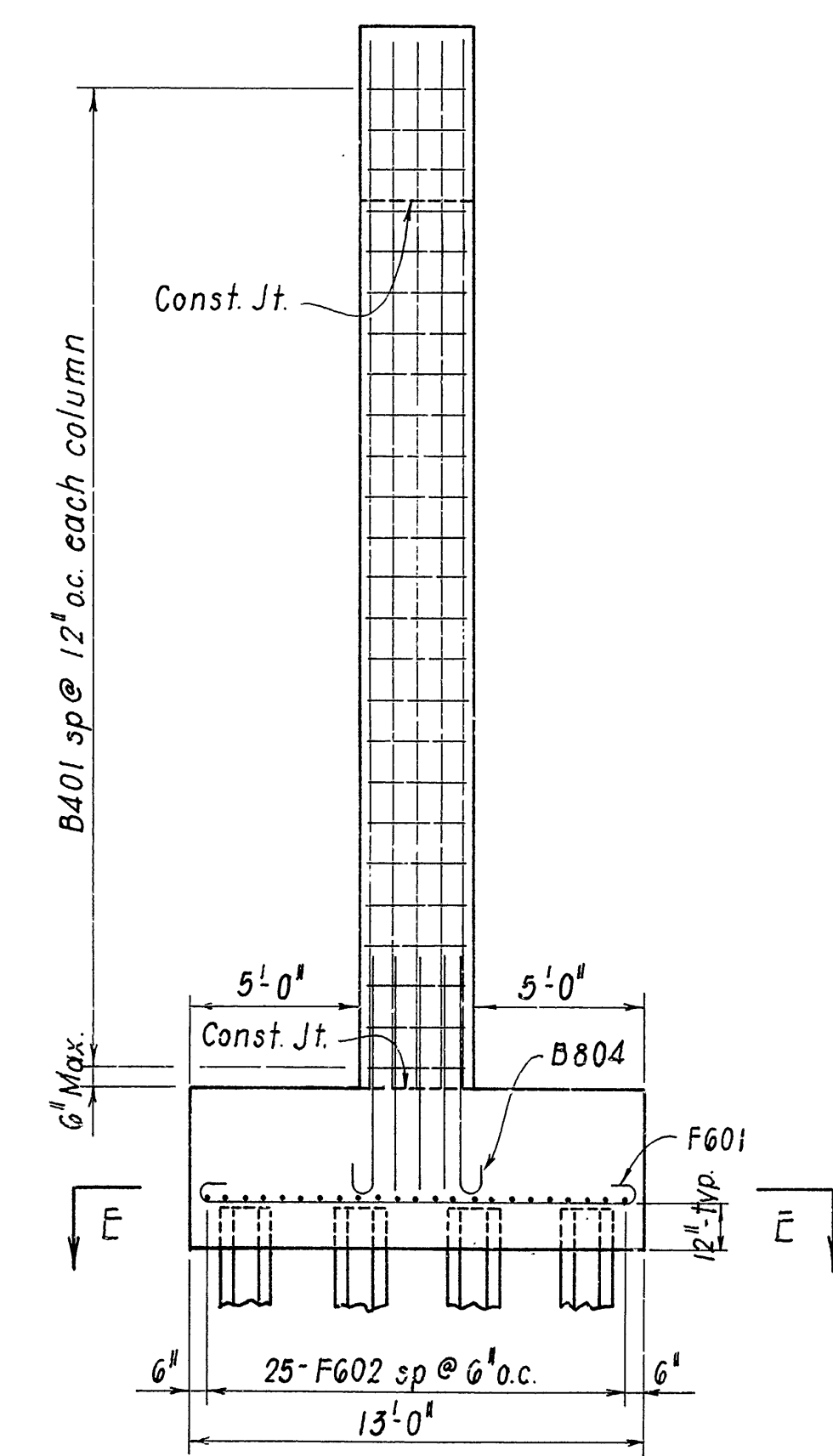
SECTION B-B
1/2" = 1'-0"



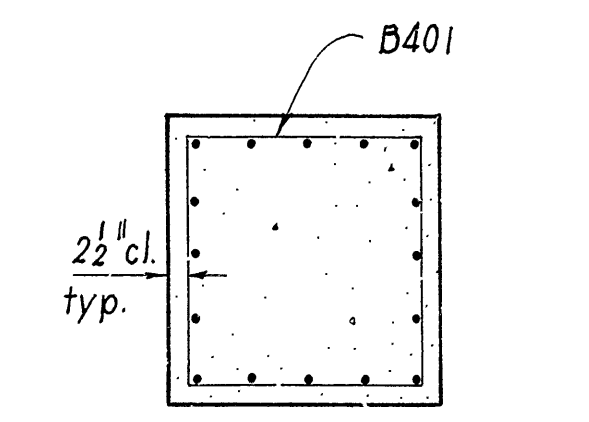
ANCHOR BOLT LOCATION (TYP)
N.T.S.



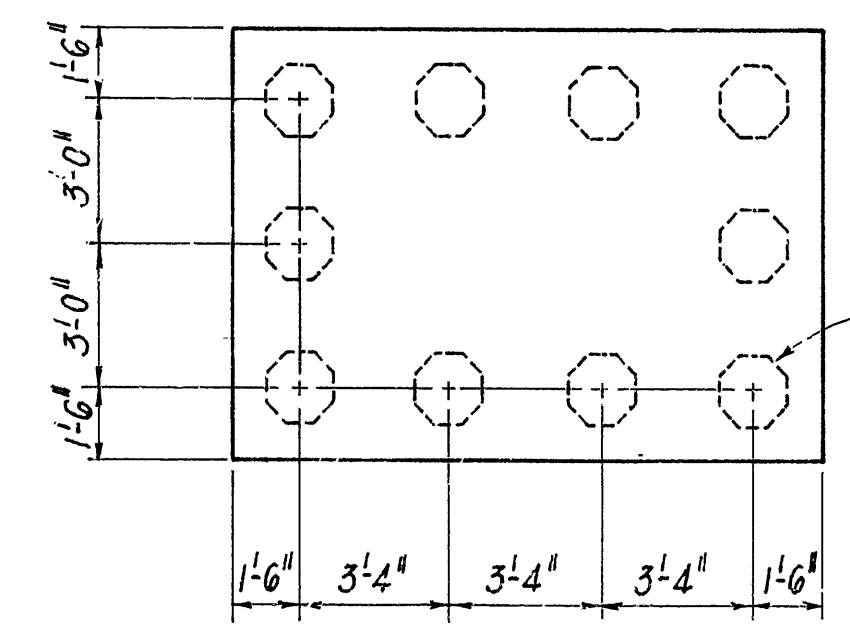
ELEVATION



SECTION C-C



SECTION D-D
1/2" = 1'-0"



SECTION E-E

BAR LIST

Mark	No. Req'd	Length	A	B	Pin Dia.	Bending Diagram
B901	7	62'-2"	59'-8"	10"	q"	
B902	6	18'-0"			Str.	
B903	5	44'-0"			Str.	
B904	4	59'-8"			Str.	
B801	16	24'-9"			Str.	
B802	16	23'-5"			Str.	
B803	16	22'-2"			Str.	
B804	48	8'-3"	7'-4"	8"		
FG01	51	13'-10"	12'-6"	6"	4 1/2"	
FG02	75	9'-10"	8'-6"	6"	4 1/2"	
B501	32	11'-10"	1'-9"	3'-8"	2 1/2"	
B502	52	13'-8"	2'-8"	3'-8"	2 1/2"	
B503	9	q'-q"	2'-8"	3'-8"	2 1/2"	
B504	4	59'-8"			Str.	
B401	72	11'-2"	2'-7"	2'-7"	2"	

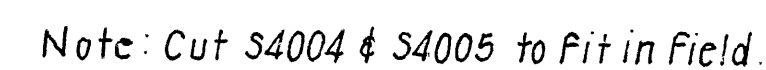
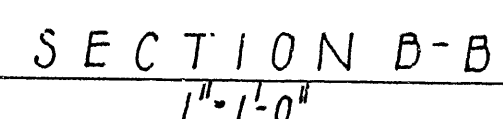
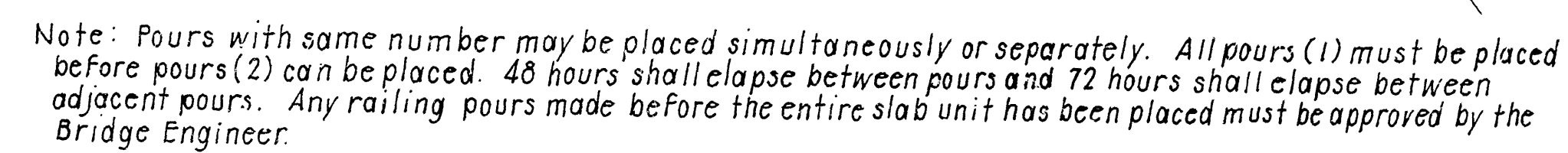
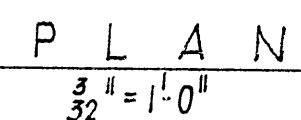
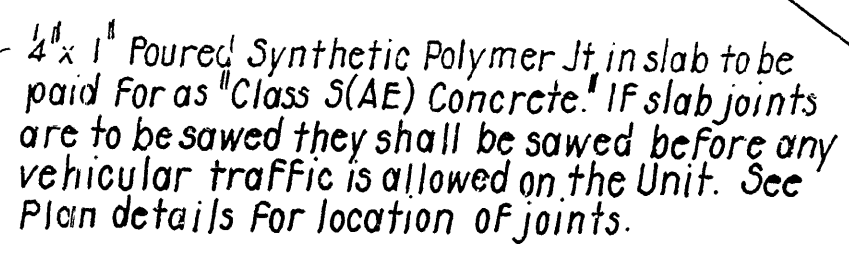
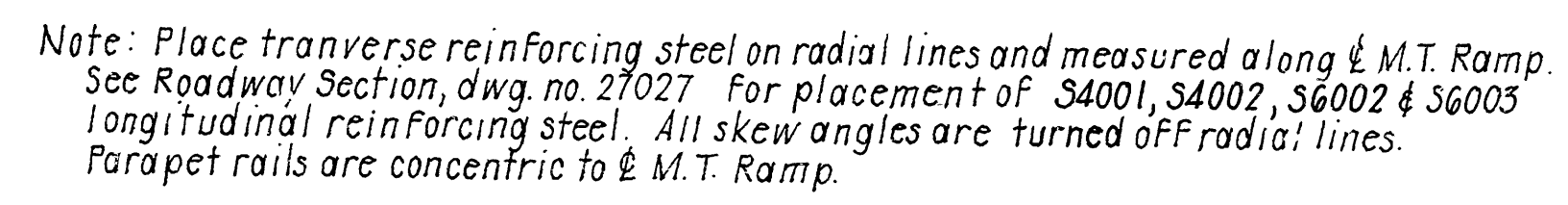
Dimens. are out to out of bars.

GENERAL NOTES

ALL CONCRETE TO BE CLASS "S" AND TO BE POURED IN THE DRY.
ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3500$ PSI.
ALL EXPOSED CORNERS TO BE CHAMFERED 3/4 INCH.
REINFORCING STEEL TO BE ASTM A615 OR A617, GRADE 60. SEE LAYOUT FOR PILE DATA AND GENERAL NOTES.
IN GENERAL, ALL CONSTRUCTION JOINTS IN BENTS SHALL BE PROVIDED WITH KEYS NOT LESS THAN 1-1/2 INCH HIGH COVERING THE MIDDLE THIRD OF BOTH DIMENSIONS.
LIVE LOAD: HS 20+M
DESIGN SPECIFICATIONS: AASHTO 1983 WITH CURRENT INTERIM SPECIFICATIONS.
METHOD OF DESIGN: LOAD FACTOR

DETAILS OF INT. BENT 3
M.T. RAMP BRIDGE OVER L.M. RAMP
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: L.M. DATE: 11-6-84
CHECKED BY: H.J.D. DATE: 1-16-85
DESIGNED BY: D.H.P. DATE: 10-18-84
SCALE: 1/4" = 1'-0" or as shown
BRIDGE NO. 6103 DRAWING NO. 27035

Paul Pinkerton
BRIDGE ENGINEER

66.

Mark	No. Req'd.	Length	Pin Dia.
S6001	253	43'-6"	3 3/4"
S6002	100	34'-9"	Str.
S6003	100	38'-3"	Str.
S6004	583	6'-3"	Str.
S6005 to S6060	1 ea.	4'-10" to 4'-3"	Str.
S6061 to S6116	1 ea.	4'-10" to 4'-3"	Str.
S6117 to S6198	1 ea.	4'-11" to 39'-4"	Str.
S6199 to S6280	1 ea.	4'-11" to 39'-4"	Str.
S8001	5	56'-10"	6"
S8002	5	15'-1"	6"
S8003	5	59'-1"	Str.
S4001	340	37'-11"	Str.
S4002	700	37'-11"	Str.
S4003	96	4'-5"	2"
S4004	4	35'-6"	Str.
S4005	4	28'-6"	Str.
S5001	254	42'-6"	Str.
S5002	254	42'-6"	Str.
P401	734	5'-10"	2"
P402	734	5'-6"	2"
P403	96	14'-8"	Str.
P404	96	15'-2"	Str.
P405	42	16'-1"	Str.
P406	42	16'-6"	Str.

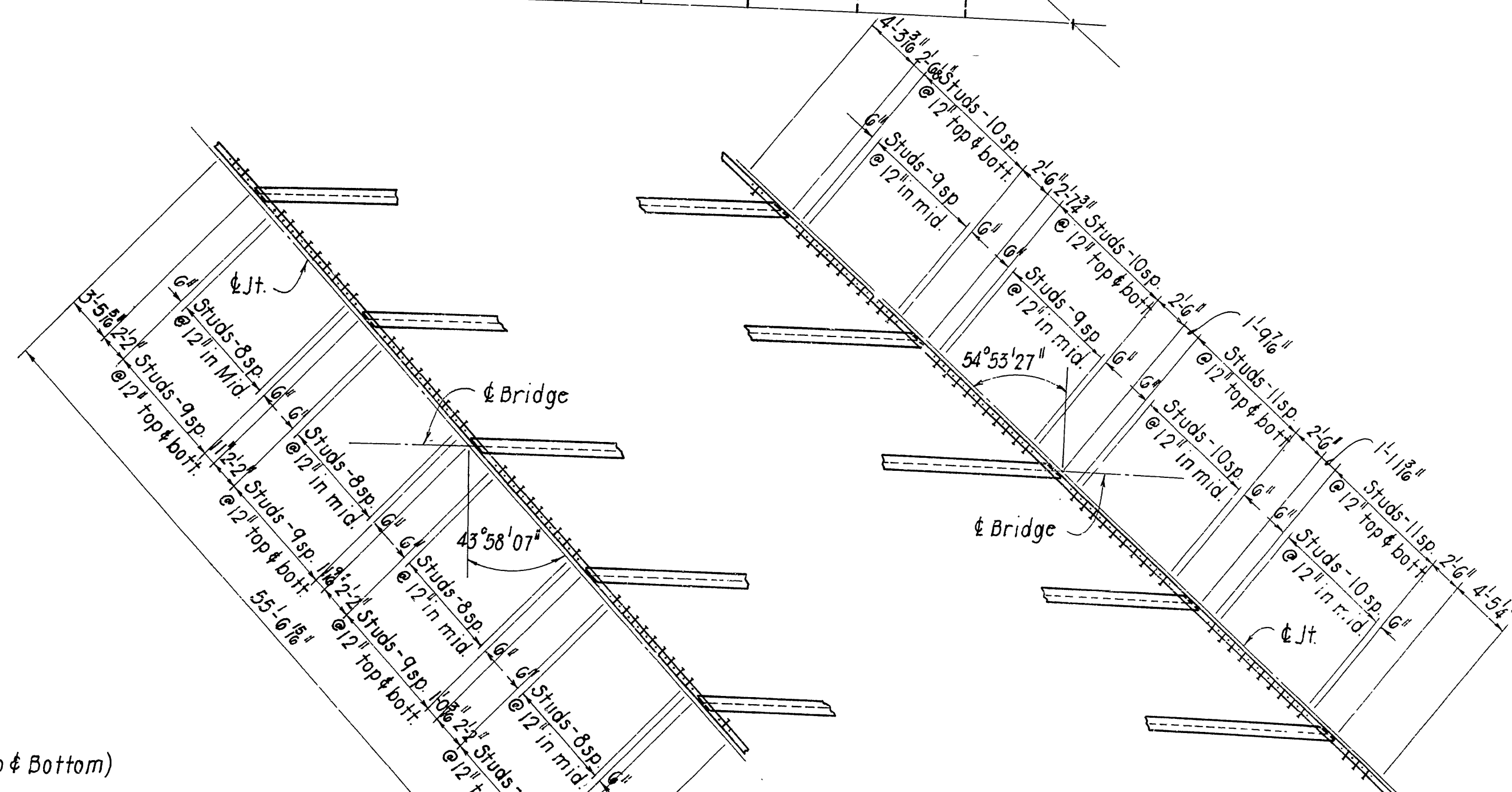
Bending Diagram

① No Undertolerance; 1/2" Overtolerance

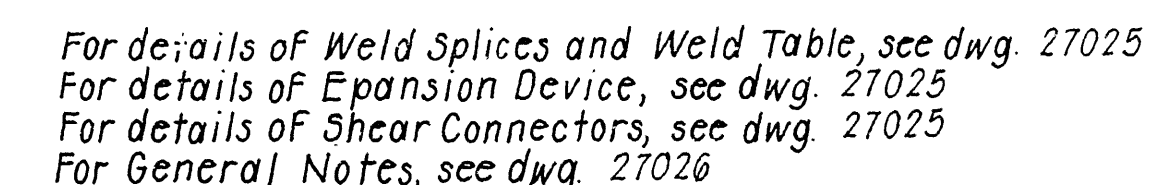
Dimensions are out to out of bars.

BRIDGE NO. 6103 DRAWING NO. 27036

Note: All connection plates shall be 5" x 6" except as noted.



DETAIL Y
N.T.S



TYP. CHANNEL CONNECTION
FOR BENTS 1 & 4
 $I_2^1 = I_1^1 = 0^{\#}$

Variable	Gir. # 1	Gir. # 2	Gir. # 3	Gir. # 4	Gir. # 5
A	$74^{\circ}-8^{\circ}_{16}''$	$75^{\circ}-0^{\circ}_{16}''$	$75^{\circ}-5^{\circ}_{16}''$	$75^{\circ}-9^{\circ}_{16}''$	$76^{\circ}-13^{\circ}_{16}''$
B	$66^{\circ}-2^{\circ}_{16}''$	$66^{\circ}-6^{\circ}_{16}''$	$66^{\circ}-11^{\circ}_{16}''$	$67^{\circ}-3^{\circ}_{16}''$	$67^{\circ}-7^{\circ}_{16}''$
C	$67^{\circ}-1^{\circ}_{16}''$	$67^{\circ}-5^{\circ}_{16}''$	$67^{\circ}-10^{\circ}_{16}''$	$68^{\circ}-3^{\circ}_{16}''$	$68^{\circ}-9^{\circ}_{16}''$
D	$72^{\circ}-10^{\circ}_{16}''$	$73^{\circ}-4^{\circ}_{16}''$	$73^{\circ}-10^{\circ}_{16}''$	$74^{\circ}-5^{\circ}_{16}''$	$74^{\circ}-11^{\circ}_{16}''$
E	$79^{\circ}-0^{\circ}_{16}''$	$79^{\circ}-8^{\circ}_{16}''$	$80^{\circ}-4^{\circ}_{16}''$	$81^{\circ}-0^{\circ}_{16}''$	$81^{\circ}-9^{\circ}_{16}''$
F	$106^{\circ}-10^{\circ}_{16}''$	$107^{\circ}-4^{\circ}_{16}''$	$107^{\circ}-10^{\circ}_{16}''$	$108^{\circ}-4^{\circ}_{16}''$	$108^{\circ}-11^{\circ}_{16}''$
G	$138^{\circ}-1^{\circ}_{16}''$	$138^{\circ}-11^{\circ}_{16}''$	$139^{\circ}-9^{\circ}_{16}''$	$140^{\circ}-8^{\circ}_{16}''$	$141^{\circ}-7^{\circ}_{16}''$
H	$114^{\circ}-11^{\circ}_{16}''$	$115^{\circ}-10^{\circ}_{16}''$	$116^{\circ}-9^{\circ}_{16}''$	$117^{\circ}-9^{\circ}_{16}''$	$118^{\circ}-9^{\circ}_{16}''$
I	$1^{\circ}-8^{\circ}_{16}''$	$1^{\circ}-8^{\circ}_{16}''$	$1^{\circ}-8^{\circ}_{16}''$	$1^{\circ}-8^{\circ}_{16}''$	$1^{\circ}-8^{\circ}_{16}''$
J	$2^{\circ}-0^{\circ}_{16}''$	$2^{\circ}-0^{\circ}_{16}''$	$2^{\circ}-1^{\circ}_{16}''$	$2^{\circ}-1^{\circ}_{16}''$	$2^{\circ}-1^{\circ}_{16}''$

DETAILS OF 365'-0" CONT. PL. GIRDER UNIT
M.T. RAMP BRIDGE OVER L.M. RAMP
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION

RECEIVED: 1984-12-14

LITTLE ROCK, ARK.

1 M 10-25-84

DRAWN BY: EMM DATE: 10-16-85 As Shown

CHECKED BY: FJD DATE: 7-16-83 SCALE: 1"=100'

DESIGNED BY: D. J. DATE: 10-18-84

[illegible]

BRIDGE NO. 6103 DRAWING NO. 27037

BRIDGE NO. 0103 DRAWING NO. 102-1-1

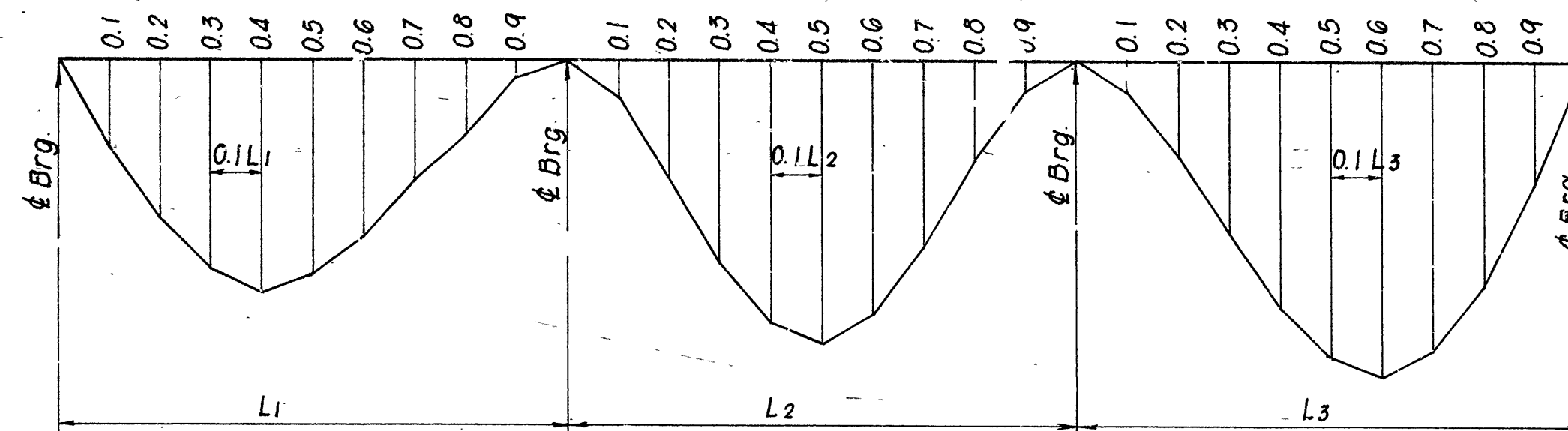
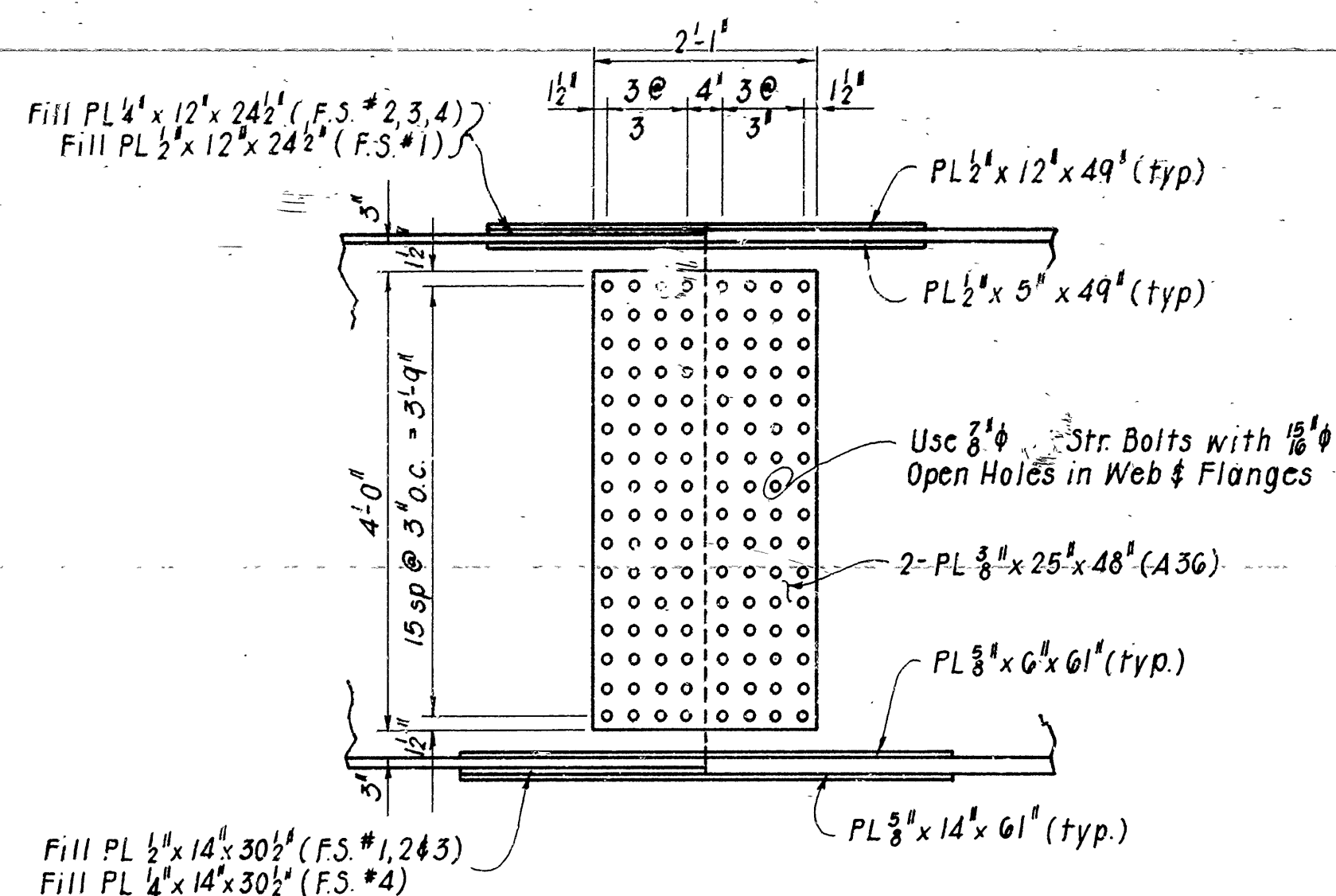


TABLE OF DEFLECTIONS (INCHES)

Point of Deflection	Weight of Structural Steel	Weight of Structural Steel & Slab	Weight of Structural Steel, Slab & Concrete Parapet Rail
0	0	0	0
0.1	0.092	0.584	0.623
0.2	0.169	1.065	1.137
0.3	0.218	1.375	1.469
0.4	0.236	1.479	1.580
0.5	0.221	1.378	1.474
0.6	0.179	1.111	1.188
0.7	0.121	0.748	0.801
0.8	0.062	0.386	0.411
0.9	0.016	0.105	0.110
0	0	0	0
0.1	0.042	0.233	0.257
0.2	0.126	0.721	0.790
0.3	0.218	1.269	1.385
0.4	0.286	1.685	1.834
0.5	0.308	1.818	1.978
0.6	0.276	1.627	1.773
0.7	0.201	1.175	1.284
0.8	0.108	0.626	0.689
0.9	0.029	0.170	0.190
0	0	0	0
0.1	0.036	0.198	0.209
0.2	0.109	0.609	0.650
0.3	0.196	1.111	1.187
0.4	0.278	1.594	1.704
0.5	0.335	1.935	2.067
0.6	0.351	2.046	2.184
0.7	0.322	1.884	2.009
0.8	0.247	1.450	1.546
0.9	0.134	0.791	0.844
0	0	0	0

