

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 100133							15	80

3162, 3163, 3166 ARK. QUANTITIES 27765

SCHEDULE OF BRIDGE QUANTITIES

BRIDGE NO.	CODE NO.	NAME/PLATE TITLE	ITEM NO.	ITEM	UNIT OF STRUCTURE	801	SP 802	SP 802	803	804	SP 805	SP 805	SP 807	SP 807	SP 807	SP 809	812	816			
						COMMON EXCAVATION FOR STRUCTURES-BRIDGE	CLASS 5 CONCRETE	CLASS 5(AE) CONCRETE	BOILED LINSFED OIL	REINFORCING STEEL (GRADE 60)	PRECAST CONCRETE PILING (16" OCT. OR 14" SQ.)	TEST PILES (16" OCT. OR 14" SQ.)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A 572-50)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (A 36)	STRUCTURAL STEEL IN BEAM SPANS (A 572-50)	PREFORMED JOINT SEALER	BRIDGE NAME PLATES (TYPE C)	CONCRETE RIPRAP			
						CUBIC YARD	CUBIC YARD	CUBIC YARD	GALLON	POUND	LINEAR FT.	LINEAR FT.	POUNDS	POUNDS	POUNDS	LINEAR FT.	EACH	CUBIC YD.			
3162 AR	X271	H.W.Y. 61 OVERPASS	END BENT NOS. 1 & 4			10	38.05		0.4	320.1	200				1536		1	190			
			INT. BENT NOS. 2 & 3			43	33.45			4157	315	40									
			2-71'-8 1/2" PLATE GIRDER CANTILEVER SPANS					174.65	15.7	19542				33058		108.0					
			1-79'-11 1/2" PLATE GIRDER SUSPENDED SPAN					97.25	8.4	10730			3570	15446							
			TOTAL BRIDGE NO. 3162 AR			53	71.50	271.90	23.8	37630	515	40	3570	50040		108.0	1	190			
3162 BR	X271	H.W.Y. 61 OVERPASS	END BENT NOS. 1 & 4			10	38.05		0.4	320.1	150	55			1536		1	190			
			INT. BENT NOS. 2 & 3			43	33.45			4157	350										
			2-71'-8 1/2" PLATE GIRDER CANTILEVER SPANS					174.65	15.0	19542				33058		108.0					
			1-79'-11 1/2" PLATE GIRDER SUSPENDED SPAN					97.25	8.4	10730			3570	15446							
			TOTAL BRIDGE NO. 3162 BR			53	71.50	271.90	23.8	37630	500	55	3570	50040		108.0	1	190			
3163 AR	X171	BURLINGTON NORTHERN RR OVERPASS	END BENT NOS. 1 & 15			6	22.90		0.3	2074	65	70			1204		1				
			INT. BENT NOS. 2-7 AND 10-14			149	152.50			21751	1890	100									
			INT. BENT NOS. 8 & 9			43	75.10			4963	675	50									
			2-67'-8 1/2" COMPOSITE W-BEAM SPANS					160.24	14.2	15244				29180	128.6						
			9-67'-6" COMPOSITE W-BEAM SPANS					718.77	63.9	68597				131067	385.6						
			1-51'-7 3/8" COMPOSITE W-BEAM SPAN					61.77	5.4	6670				9610	48.6						
			1-53'-3 3/8" COMPOSITE W-BEAM SPAN					63.83	5.6	6864				14233	48.6						
			1-35'-6 1/2" R.C. SLAB SPAN					101.09	3.7	15447				1546	54.6						
			TOTAL BRIDGE NO. 3163 AR			198	250.50	1105.70	93.1	141610	2630	220			186840	666.0	1				
			END BENT NOS. 1 & 15			6	22.90		0.3	2074	130				1204		1				
3163 BR	X171	BURLINGTON NORTHERN RR OVERPASS	INT. BENT NOS. 2-6 AND 9-14			149	153.20			21886	1980										
			INT. BENT NOS. 7 & 8			43	75.10			4963	720										
			2-67'-8 1/2" COMPOSITE W-BEAM SPANS					160.24	14.2	15244				29180	128.6						
			9-67'-6" COMPOSITE W-BEAM SPANS					718.77	63.9	68597				131067	385.6						
			1-53'-3 3/8" COMPOSITE W-BEAM SPAN					63.83	5.6	6864				14233	48.6						
			1-51'-7 3/8" COMPOSITE W-BEAM SPAN					61.77	5.4	6675				9610	48.6						
			1-35'-6 1/2" R.C. SLAB SPAN					101.09	3.7	15447				1546	54.6						
			TOTAL BRIDGE NO. 3163 BR			198	251.20	1105.70	93.1	141750	2830				186840	666.0	1				
			END BENT NOS. 1 & 16			6	22.90		0.3	2074	60	65			1204		1				
			3166 AR	X171	BURLINGTON NORTHERN RR OVERPASS	INT. BENT NOS. 2-7 & 10-15			162	159.06			22466	1840	90						
INT. BENT NOS. 8 & 9						42	53.94			4638	360	45									
2-67'-8 1/2" COMPOSITE W-BEAM SPANS								160.24	14.2	15244				29180	128.6						
10-67'-6" COMPOSITE W-BEAM SPANS								798.83	70.8	76219				145629	428.7						
2-67'-6 1/2" COMPOSITE W-BEAM SPANS								159.85	14.2	15244				29125	85.8						
1-36'-5 3/8" R.C. SLAB SPAN								103.28	3.8	15275				1202	42.9						
TOTAL BRIDGE NO. 3166 AR						210	235.90	1222.20	103.3	151160	2260	200			206340	686.0	1				
END BENT NOS. 1 & 16						6	22.90		0.3	2074	120				1204		1				
3166 BR	X171	BURLINGTON NORTHERN RR OVERPASS				INT. BENT NOS. 2-7 & 10-15			162	159.06			22466	1920							
						INT. BENT NOS. 8 & 9			42	53.94			4638	400							
			2-67'-8 1/2" COMPOSITE W-BEAM SPANS					160.24	14.2	15244				29180	128.6						
			10-67'-6" COMPOSITE W-BEAM SPANS					798.83	70.8	76219				145629	428.7						
			2-67'-6 1/2" COMPOSITE W-BEAM SPANS					159.85	14.2	15244				29125	85.8						
			1-36'-5 3/8" R.C. SLAB SPAN					103.28	3.8	15275				1202	42.9						
			TOTAL BRIDGE NO. 3166 BR			210	235.90	1222.20	103.3	151160	2440				206340	686.0	1				
			TOTALS FOR JOB NO 100133						922	1116.50	5199.60	440.40	660,940	11175	515	7140	100080	786,360	2920.1	6	380

* Includes SP 802-5

GARY ASHLEY
DESIGN SECTION SUPERVISOR

SHEET 1 OF 2
SCHEDULE OF
BRIDGE QUANTITIES
I-55 STRUCTURES RENOVATION
(BLYTHEVILLE)
MISSISSIPPI COUNTY
ROUTE I-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: *EAK* DATE: 8-16-85
CHECKED BY: *GVA* DATE: 10-22-85
DESIGNED BY: DATE: SCALE: NONE

David J. ...
BRIDGE ENGINEER

BRIDGE NO. 3162, 3163, 8
3166 AR & BR DRAWING NO. 27765

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	100133		16	80

SCHEDULE OF BRIDGE QUANTITIES

BRIDGE NO.	CODE NO.	NAME	PLATE TITLE	ITEM NO.	SP # 804	SP JOB 100133	SP JOB 100133	SP JOB 100133	SP JOB 100133	SP JOB 100133	SP JOB 100133	SP JOB 100133								
				UNIT OF STRUCTURE	ITEM	EPOXY COATED REINFORCING STEEL (GRADE 60)	PAINTING EXISTING STRUCTURAL STEEL (TYPE II)	REPLACING EXISTING ANCHOR BOLTS	REPLACING EXISTING MASONRY PLATES	REMODELING EXISTING BRIDGE STRUCTURES	CLOSED CELL FOAMED JOINT FILLER	CONCRETE DECK SALVAGE FOR RIPRAP								
				UNIT	POUND	TON	EACH	EACH	LUMP SUM	LINEAR FT.	SQ. YD.									
3162 BR	3162 AR	X271	Hwy 61 OVERPASS	END BENT NOS. 1 & 4			7	10												
				INT. BENT NOS. 2 & 3																
				2-71'-8 1/2" PLATE GIRDER CANTILEVER SPANS	20660					54.0										
				1-79'-11 1/2" PLATE GIRDER SUSPENDED SPAN	9480				54.0											
				TOTAL BRIDGE NO. 3162 AR	30140	90	7	10	0.05	108.0										
3162 BR	3162 BR	X271	Hwy 61 OVERPASS	END BENT NOS. 1 & 4			14	10												
				INT. BENT NOS. 2 & 3																
				2-71'-8 1/2" PLATE GIRDER CANTILEVER SPANS	20656				54.0											
				1-79'-11 1/2" PLATE GIRDER SUSPENDED SPAN	9480			54.0												
				TOTAL BRIDGE NO. 3162 BR	30140	90	14	10	0.05	108.0										
3163 AR	3163 AR	X171	BURLINGTON NORTHERN RR OVERPASS	END BENT NOS. 1 & 15			9	10				1100								
				INT. BENT NOS. 2-7 AND 10-14			5													
				INT. BENT NOS. 8 & 9																
				2-67'-8 1/2" COMPOSITE W-BEAM SPANS	15113															
				9-67'-6" COMPOSITE W-BEAM SPANS	68013															
				1-51'-7 5/8" COMPOSITE W-BEAM SPANS	6116															
				1-53'-3 3/8" COMPOSITE W-BEAM SPANS	6282															
				1-35'-6 1/2" RC. SLAB SPAN	1836															
				TOTAL BRIDGE NO. 3163 AR	97360	390	14	10	0.21		1100									
				3163 BR	3163 BR	X171	BURLINGTON NORTHERN RR OVERPASS	END BENT NOS. 1 & 15			4	10				1100				
INT. BENT NOS. 2-6 AND 9-14			3																	
INT. BENT NOS. 7 & 8			1																	
2-67'-8 1/2" COMPOSITE W-BEAM SPANS	15113																			
9-67'-6" COMPOSITE W-BEAM SPANS	68013																			
1-53'-3 3/8" COMPOSITE W-BEAM SPAN	6282																			
1-51'-7 5/8" COMPOSITE W-BEAM SPAN	6116																			
1-35'-6 1/2" RC. SLAB SPANS	1836																			
TOTAL BRIDGE NO. 3163 BR	97360	390	8					10	0.21		1100									
3166 AR	3166 AR	X171	BURLINGTON NORTHERN RR OVERPASS					END BENT NOS. 1 & 16			1	10				1100				
				INT. BENT NOS. 2-7 & 10-15			7													
				INT. BENT NOS. 8 & 9																
				2-67'-8 1/2" COMPOSITE W-BEAM SPANS	15113															
				10-67'-6" COMPOSITE W-BEAM SPANS	75568															
				2-67'-6 7/8" COMPOSITE W-BEAM SPANS	15113															
				1-36'-5 5/8" RC. SLAB SPAN	1646															
				TOTAL BRIDGE NO. 3166 AR	107440	440	8	10	0.24		1100									
				3166 BR	3166 BR	X171	BURLINGTON NORTHERN RR OVERPASS	END BENT NOS. 1 & 16			2	10				1100				
								INT. BENT NOS. 2-7 & 10-15			7									
INT. BENT NOS. 8 & 9			1																	
2-67'-8 1/2" COMPOSITE W-BEAM SPANS	15113																			
10-67'-6" COMPOSITE W-BEAM SPANS	75568																			
2-67'-6 7/8" COMPOSITE W-BEAM SPANS	15113																			
1-36'-5 5/8" RC. SLAB SPAN	1646																			
TOTAL BRIDGE NO. 3166 BR	107440	440	10					10	0.24		1100									
TOTALS FOR JOB NO. 100133									469880	1840	61	60	1.0	216.0	4400					

SHEET 2 OF 2
SCHEDULE OF
BRIDGE QUANTITIES
1-55 STRUCTURES RENOVATION
(BLYTHEVILLE)
MISSISSIPPI COUNTY
ROUTE 1-55 SEC. 12
ANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

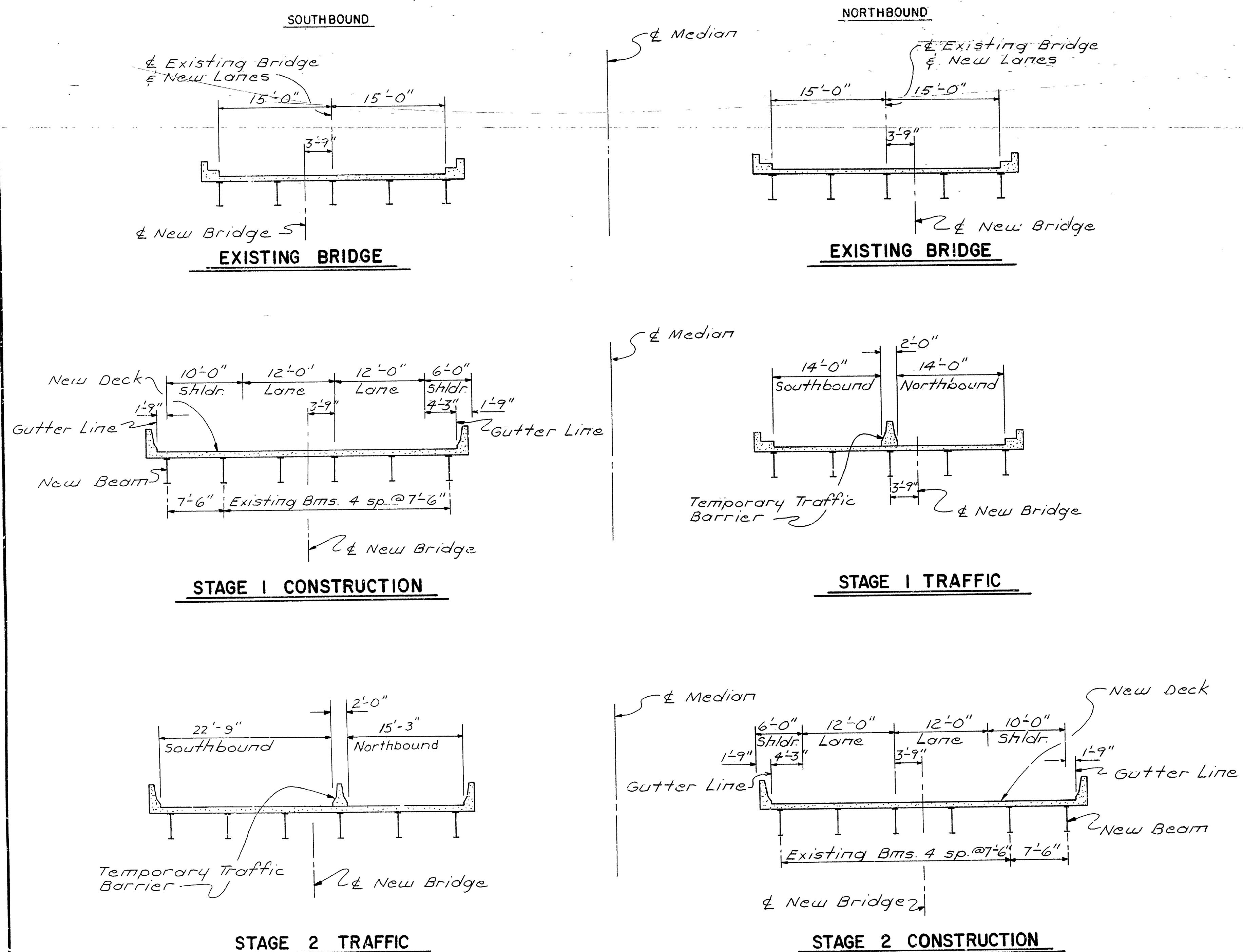
GARY ASHLEY
DESIGN SECTION SUPERVISOR

DRAWN BY: EHK DATE: 8-19-85
CHECKED BY: GVA DATE: 10-22-85 SCALE: NONE
DESIGNED BY: _____ DATE: _____
BRIDGE NO. 3162, 3163, 8
3166 AR 8 BR **DRAWING NO. 27766**

David Pinkerton
BRIDGE ENGINEER

DATE REVISED	DATE REVISED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO. 100133		22	80	
				STAGE CONST. 27768				

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STAGE CONSTRUCTION
I-55 STRUCTURES RENOVATION
(BLYTHEVILLE)
MISSISSIPPI COUNTY
ROUTE I-55 SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: J.P.S. DATE: 3-13-85
CHECKED BY: GEC DATE: 8-30-85
DESIGNED BY: ARW DATE: Feb-85
BRIDGE NO. 3162 AR & BR 3163 AR & BR 3166 AR & BR
DRAWING NO. 27768

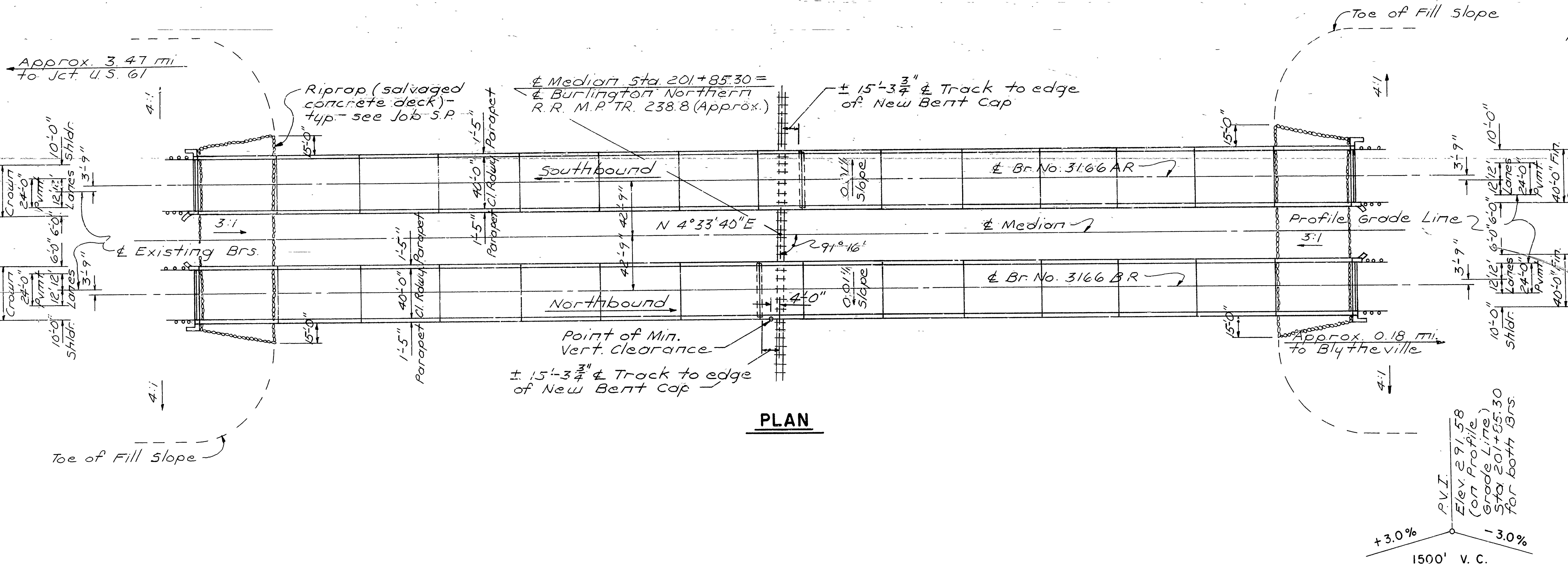
Keral Pinkerton
BRIDGE ENGINEER

For R/W Data & Guard Rail - see
Rdwy. Plans

Note: Remove existing R.C. Slab Span & concrete deck
on V-Beam Spans and replace with new Class
5(AE) concrete.

DATE	DATE	DATE	DATE	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	100133		54	80
				3166AR & BR Layout 27800				

Note: Use Type III Bridge Approach
slab & Gutters at beg. & end of both
bridges - see dwg. No. 27782.



GENERAL NOTES

BENCH MARK: ELEV. ARE BASED ON EXISTING PLAN ELEVATIONS.

THE PROPOSED WORK CONSISTS OF REMODELING AND WIDENING EXISTING
BRIDGE NO. 3166A AND 3166B IN ACCORDANCE WITH THESE PLANS AND
SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHECK MEASUREMENTS
OF THE EXISTING BRIDGE AND MAKING NECESSARY ADJUSTMENTS TO THE
NEW WORK. ALL CONCRETE IN THE NEW WORK TO BE CLASS 5 OR 5(AE)
AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF f'_c =
3500 PSI. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHER-
WISE NOTED.

ALL NEW REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617,
GRADE 60.

LIVE LOAD: (NEW CONSTRUCTION) HS20 AND MILITARY LOADING OF TWO
24,000# AXLES AT FOUR FEET CENTERS.

METHOD OF DESIGN: (NEW CONSTRUCTION) LOAD FACTOR

DESIGN SPECIFICATIONS: FOR NEW WORK, AASHTO STD. SPECIFICATIONS
FOR HIGHWAY BRIDGES, 1983 WITH CURRENT INTERIM SPECIFICATIONS.

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

HALF-SIZE DETAIL SHEETS OF THE EXISTING BRIDGE MAY BE OBTAINED
FROM THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
UPON REQUEST.

THE BRIDGE DECK SHALL BE GIVEN A TIME FINISH AS SPECIFIED FOR
TIME FINISHING OF CLASS 6, ROADWAY SURFACES FINISH IN SUBSECTION
802.23 OF THE STANDARD SPECIFICATIONS.

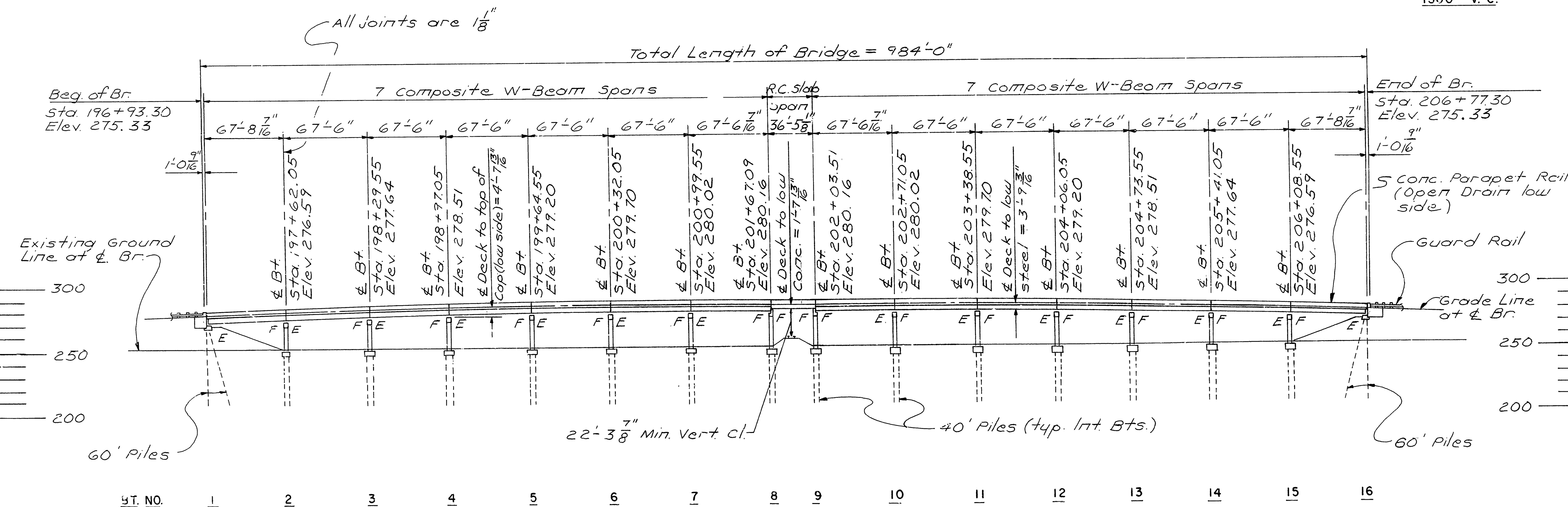
ALL PILING SHALL BE 16" OCT. OR 12" SQ. PRECAST CONCRETE,
DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE. ALL
PILES SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL
HAMMER. PILES IN END BENTS ARE TO BE DRIVEN AFTER EMBANKMENT
TO BOTTOM OF CAP IS IN PLACE. LENGTHS OF PILING SHOWN ARE BASED
ON EXISTING DRIVING RECORDS. ACTUAL LENGTHS TO BE DETERMINED IN THE
FIELD. PILING SHALL HAVE A MINIMUM PENETRATION OF 20 FT. BELOW THE
GROUND LINE.

STRUCTURAL STEEL: STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 OR
ASTM A572, GRADE 50 AS NOTED ON THE DETAIL DRAWINGS.

FOR DETAILS OF END BENTS, SEE DWG. NOS. 27801 & 27802
FOR DETAILS OF INT. BENTS, SEE DWG. NOS. 27803 & 27804
FOR DETAILS OF SUPERSTRUCTURE, SEE DWG. NO. 27805 TO 27810
FOR DETAILS OF APPROACH SLAB AND GUTTERS, SEE DWG. NO. 27782

STAGE CONSTRUCTION: SEE ROADWAY PLANS AND DRAWING NO. 27768

DRIVE ONE 55' TEST PILE IN BENT NO. 1 AND ONE 45' TEST PILE IN BENT
NOS. 4, 8 & 12 OF BRIDGE 3166AR.



ELEVATION

Note: For Bent Heights
and bot of Footing
Elevations - see dwg.
nos. 27803 & 27804.

(EXHIBIT B)
LAYOUT OF
EAST BLYTHEVILLE
BURLINGTON NORTHERN R.R. OVERPASS
I-55 STRUCTURES RENOVATION
(BLYTHEVILLE)
MISSISSIPPI COUNTY
ROUTE I-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: J.P.S. DATE: 2-22-85
CHECKED BY: GEC DATE: 9-3-85
DESIGNED BY: ARW DATE: Feb-85

BRIDGE NO. 3166AR & 3166BR
DRAWING NO. 27800

BRIDGE ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JCS NO.		100133	55	80

① 3166 AR&BR END BENT DTL'S 27801

BAR LIST-PER BENT

Mark	No.	Length	Pier Dia.	Bending Diagrams
B401	10	12'-0"	2"	
B402	3	8'-0"	2"	
B403	2	7'-8"	Str.	
B404	9	4'-4"	2"	
B405	36	6'-2"	Str.	
B406	3	5'-4"	Str.	
B407	3	6'-5"	2"	
B408	4	22'-5"	Str.	
B409	8	10'-8"	Str.	
B410	14	4'-6"	2"	
B411	14	10'-3"	2"	
B412	1	5'-2"	Str.	
B413	2	10'-4"	Str.	
B414	2	11'-3"	Str.	
B601	5	8'-4"	4 1/2"	
B602	6	7'-8"	Str.	
B603	6	7'-8"	3 3/4"	
P401	6	1'-6"	Str.	
P402	1	4'-3"	Str.	
P403	9	5'-4"	Str.	
P404	4	5'-4"	2"	
P405	4	7'-5"	2"	
P406	3	1'-2"	Str.	
P601	4	4'-4"	Str.	
P602	3	4'-5"	3 3/4"	
P603	4	8'-7"	3 3/4"	
P604	4	6'-7"	3 3/4"	
D601	8	2'-6"	Str.	

Dimensions are out to out of bars.

GENERAL NOTES

CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH, $f'c = 3500$ PSI. ALL CONCRETE SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI).

STRUCTURAL STEEL IN END BENTS SHALL BE A36 AND SHALL BE MEASURED AND PAID FOR AS "STRUCTURAL STEEL IN BEAM SPANS A572-50."

ALL PILING SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE. PILING SHALL BE 16" OCT. OR 14" SQ. PRECAST CONCRETE.

IF ANCHOR BOLTS ARE DRILLED INTO CAP, TOP MAIN REINFORCING BARS SHALL BE PROPERLY PLACED TO AVOID DAMAGE.

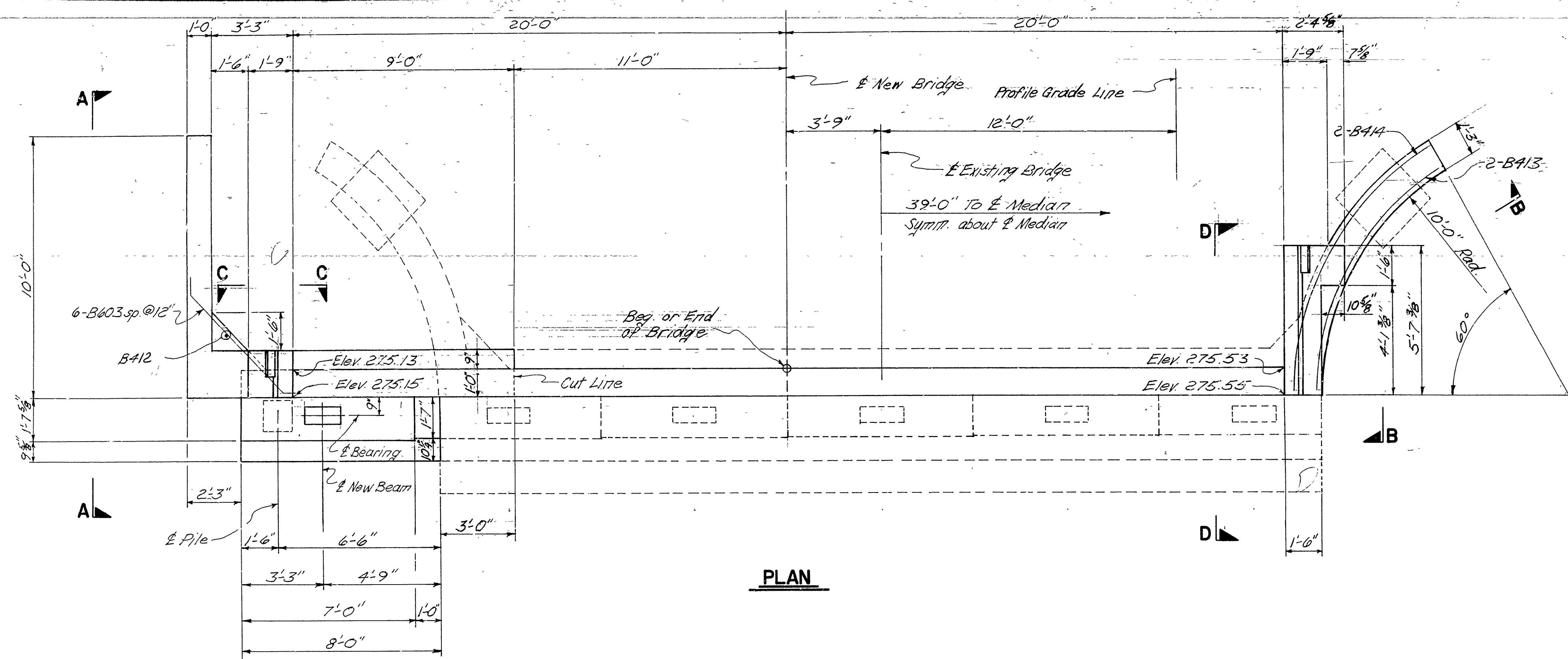
THE BACKWALL SHALL NOT BE POURED UNTIL THE BEAMS HAVE BEEN PLACED ON THE BENT CAP.

SHEET 1 OF 2
DETAIL OF END BENTS
EAST BLYTHEVILLE
BURLINGTON NORTHERN R.R. OVERPASS
MISSISSIPPI COUNTY
ROUTE 1-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: ARW DATE: 8-5-85
CHECKED BY: RJB DATE: 10-3-85
DESIGNED BY: ARW DATE: June 85

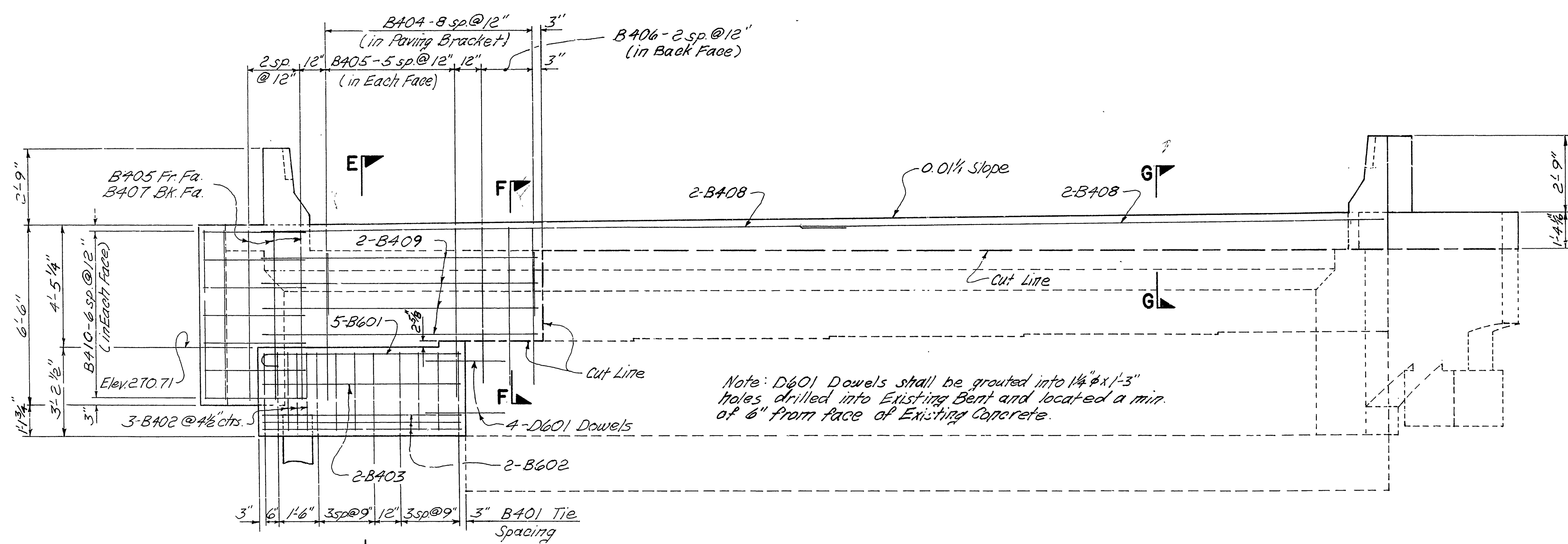
SCALE: 3/8" = 1'-0"

BRIDGE NO. 3166 AR&BR DRAWING NO. 27801



PLAN

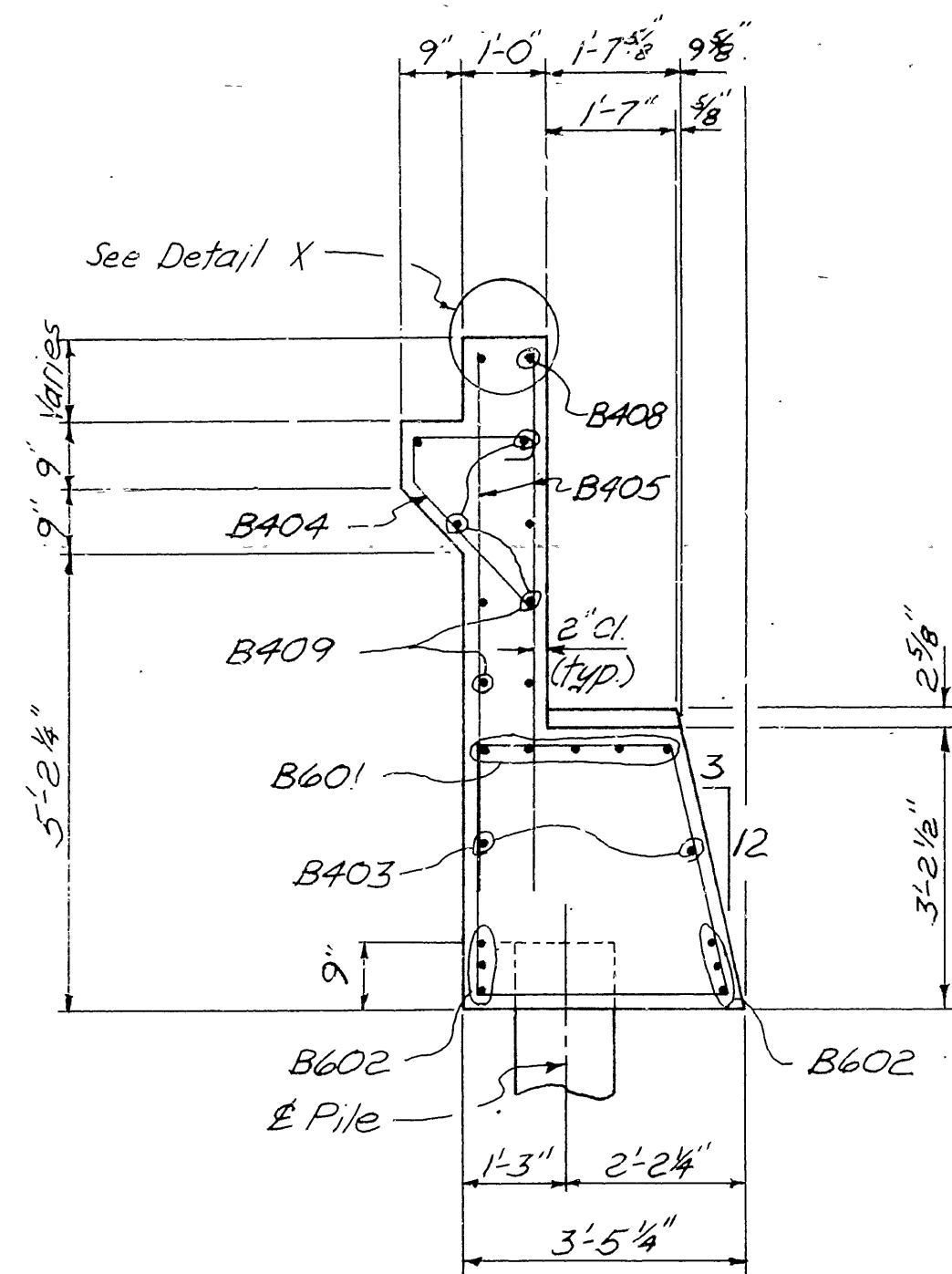
Place Type C Bridge Name Plate on Right Turnout Post at Beg. of Bridge



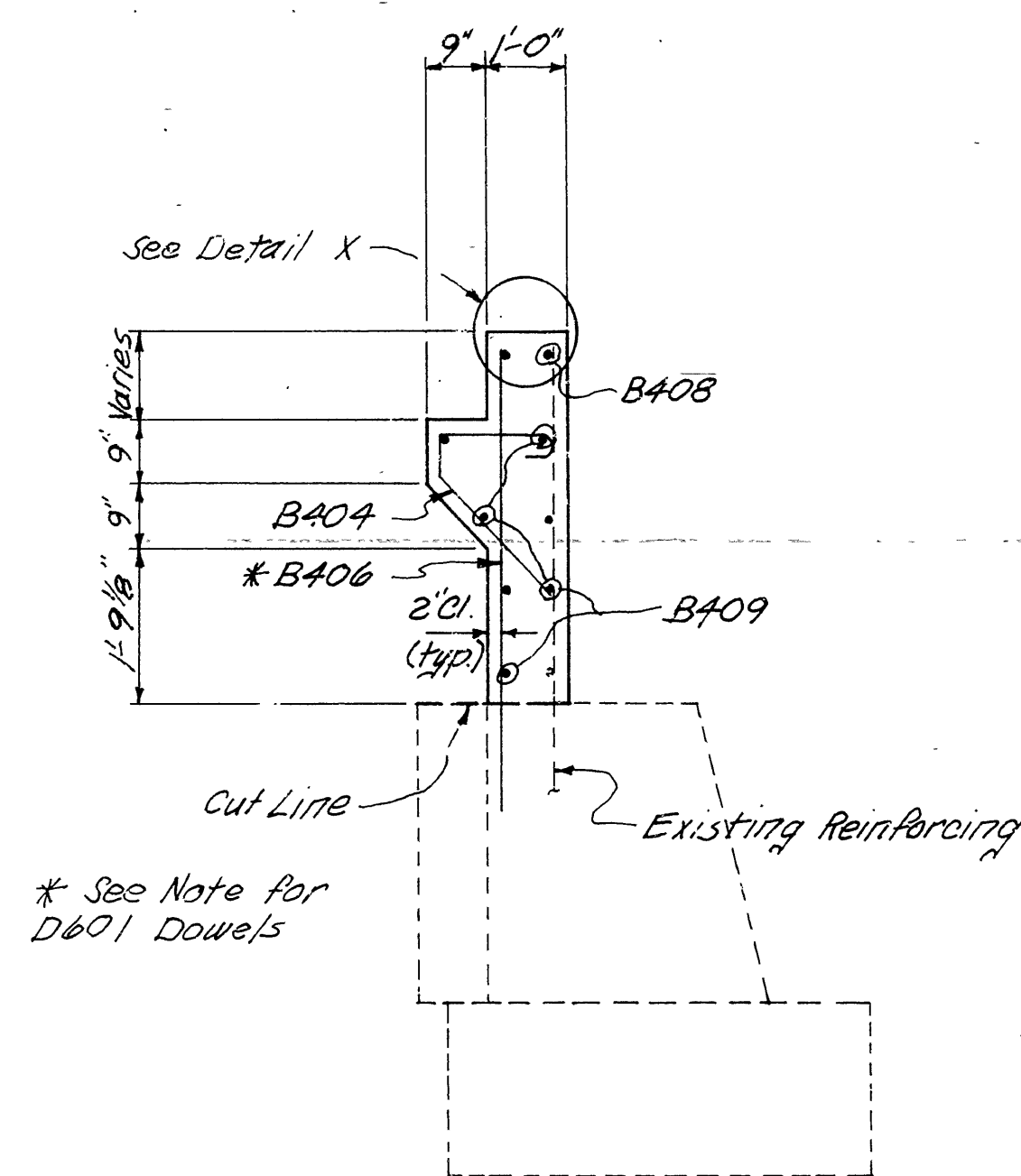
ELEVATION

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	100133		56	80

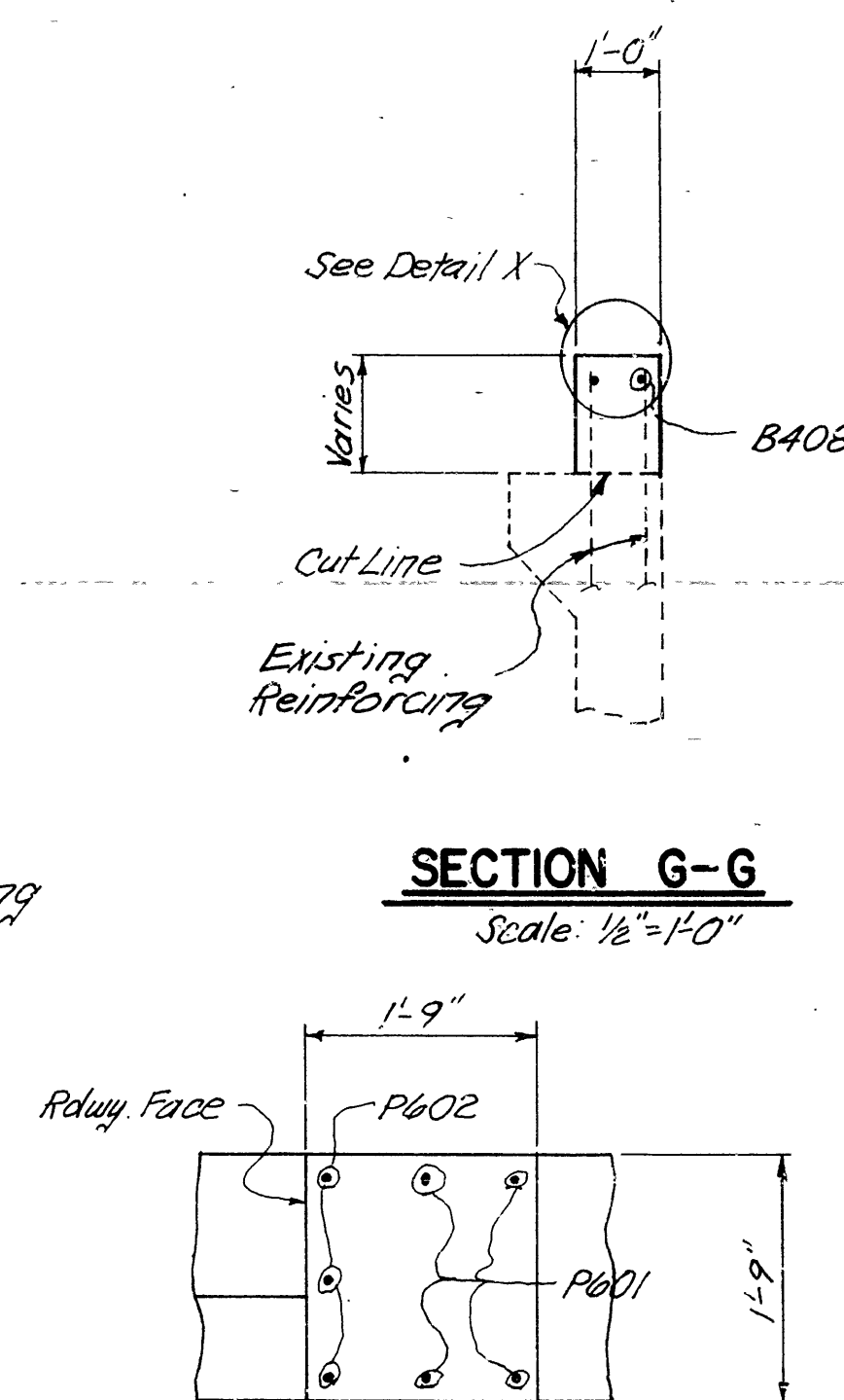
① 3166 AR #BR END BENT DTL'S 27802



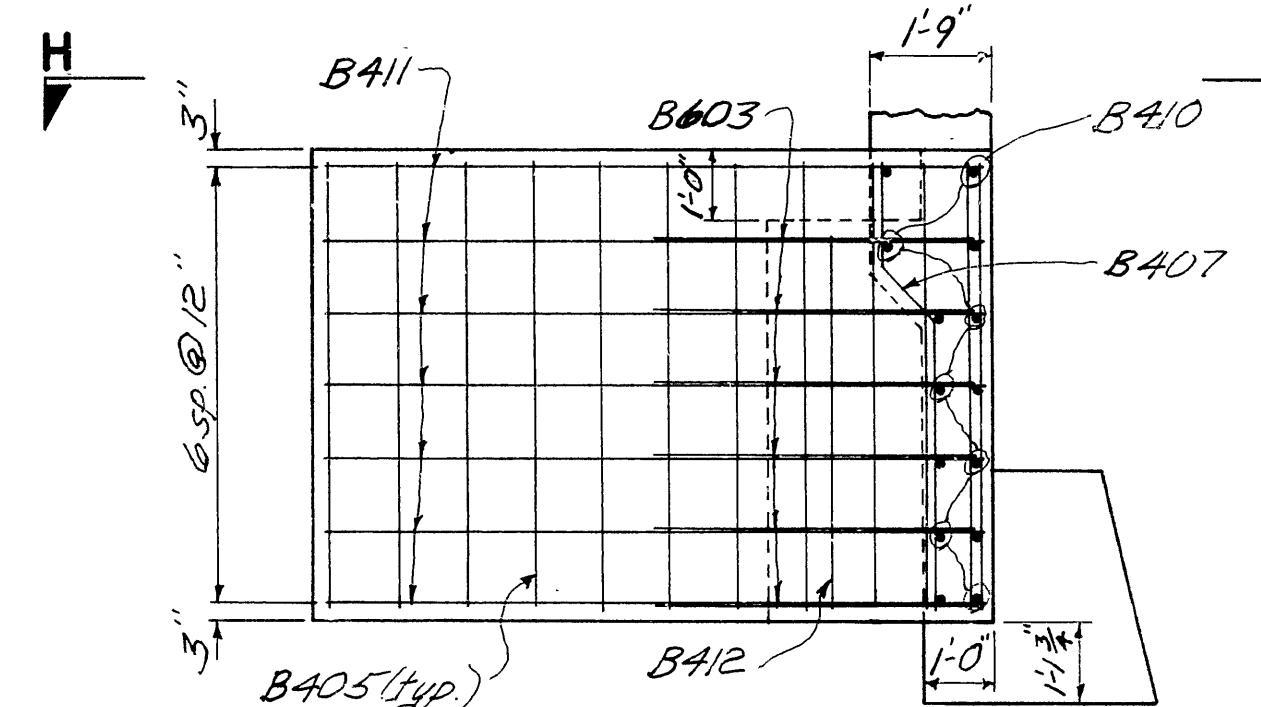
SECTION E-E
Scale: 1/2" = 1'-0"



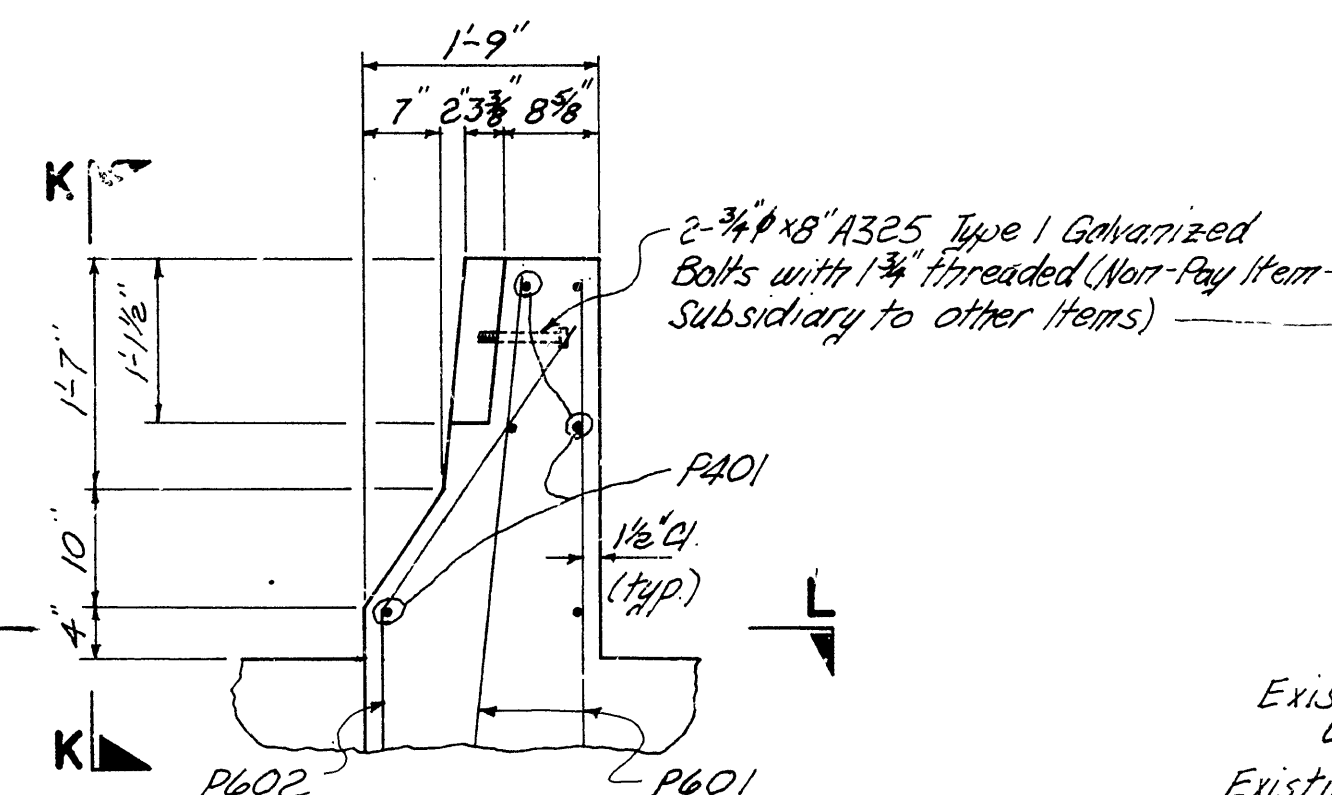
SECTION F-F
Scale: 1/2" = 1'-0"



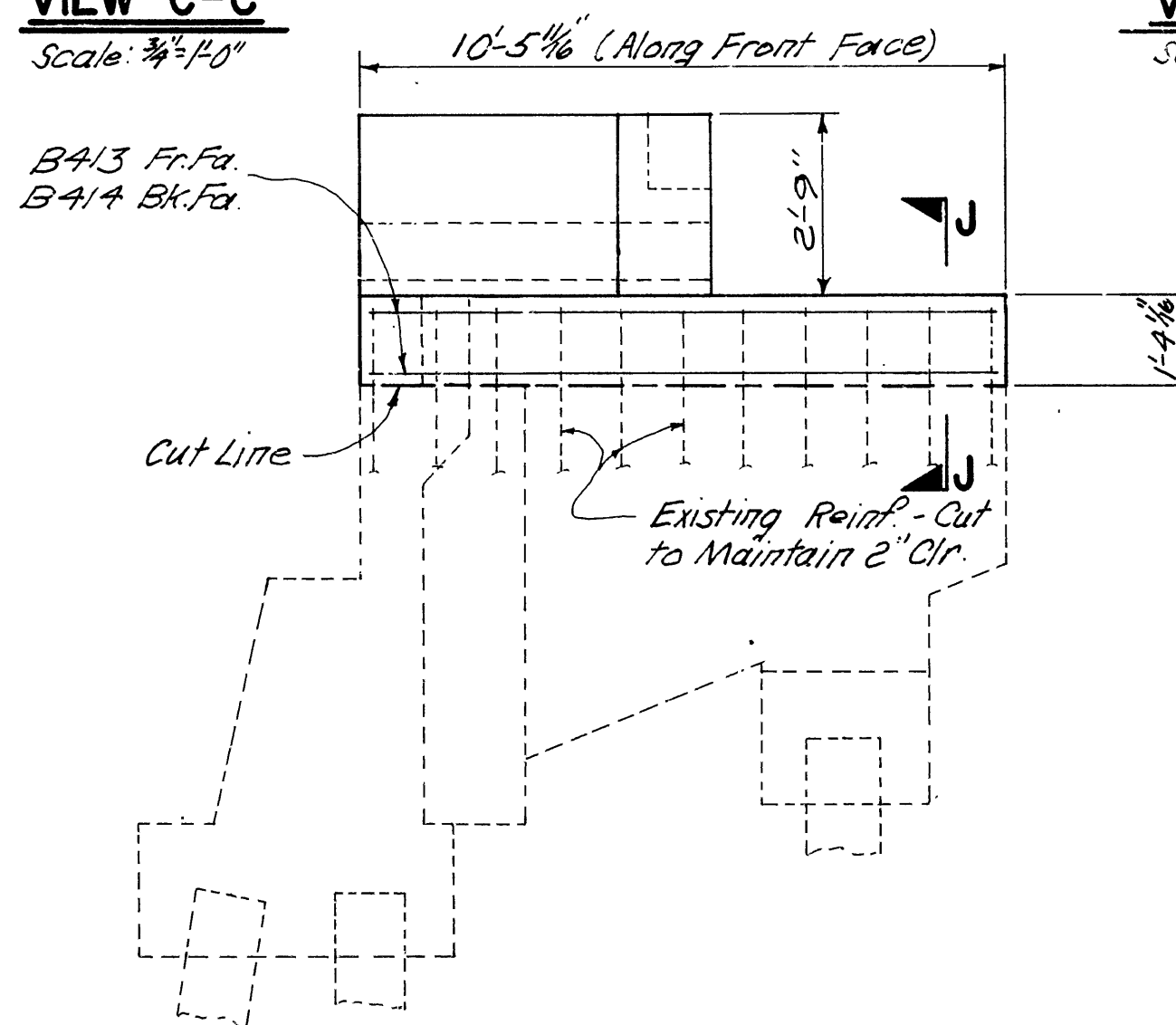
SECTION L-L
Scale: 3/4"=1'-0"



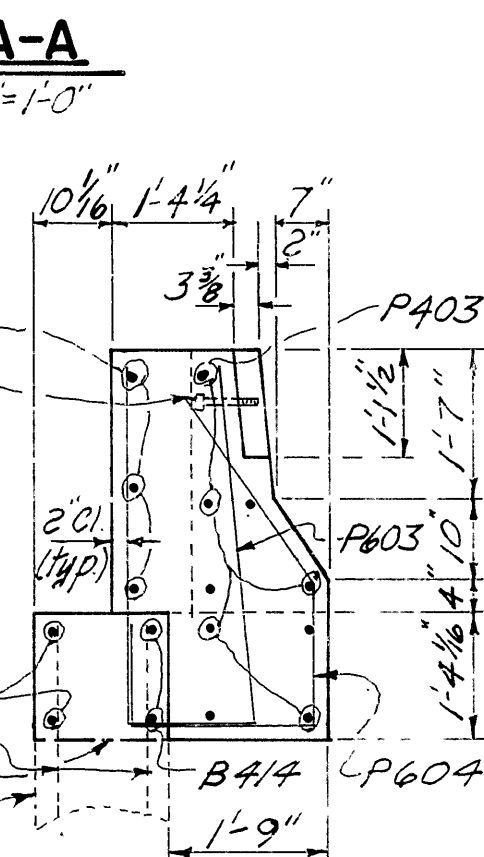
VIEW A-A
Scale: $\frac{3}{8}'' = 1'-0''$



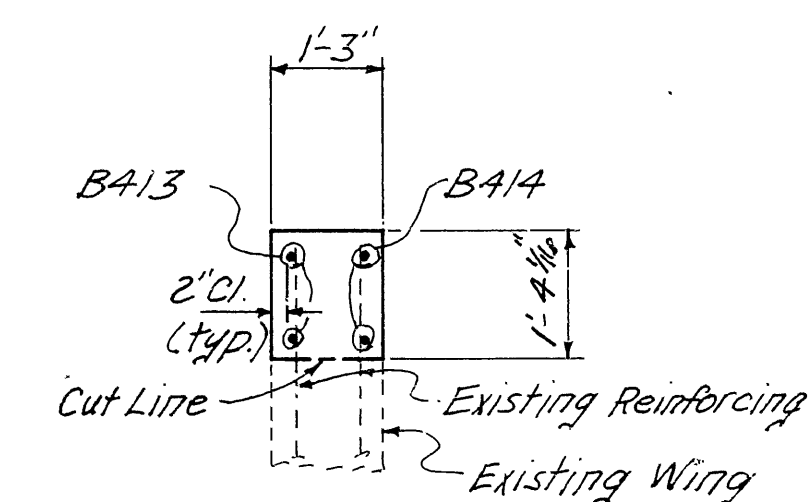
VIEW C-C
Scale: $\frac{3}{4}'' = 1'-0''$



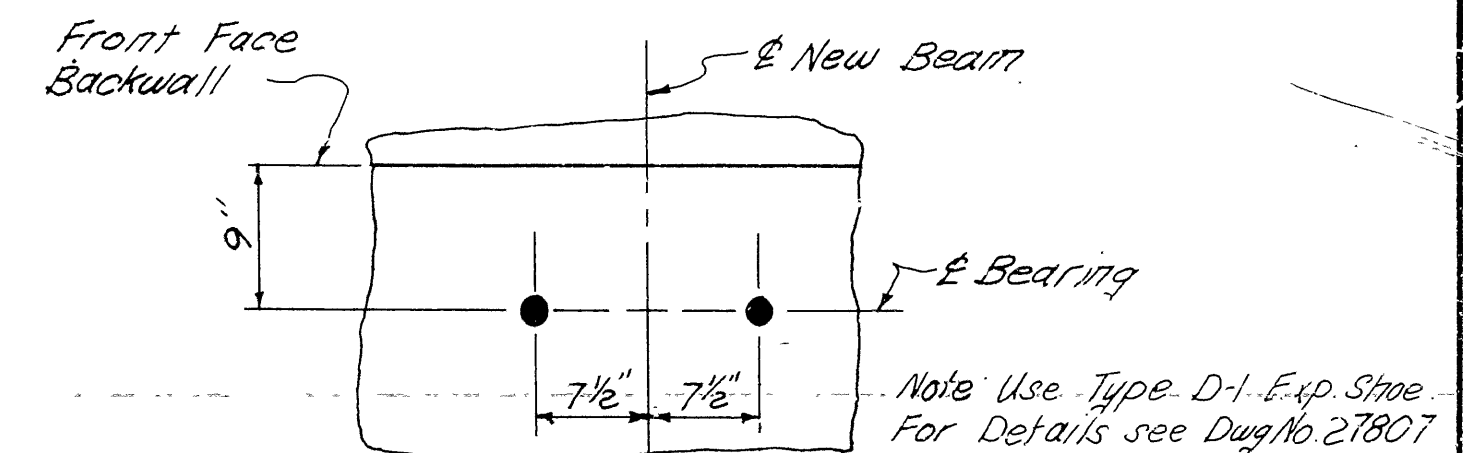
VIEW B-B
Scale: $\frac{3}{8}'' = 1'-0''$



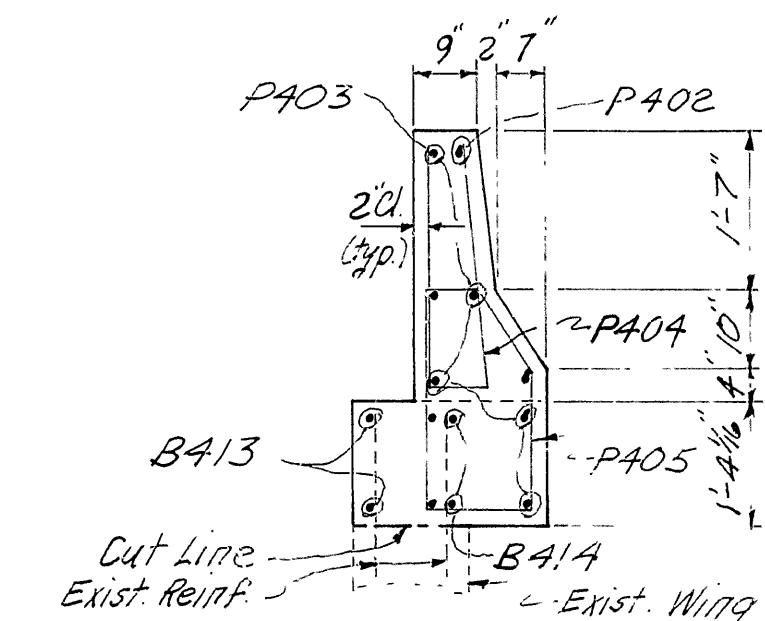
VIEW M-M
Scale: 1/2" = 1'-0"



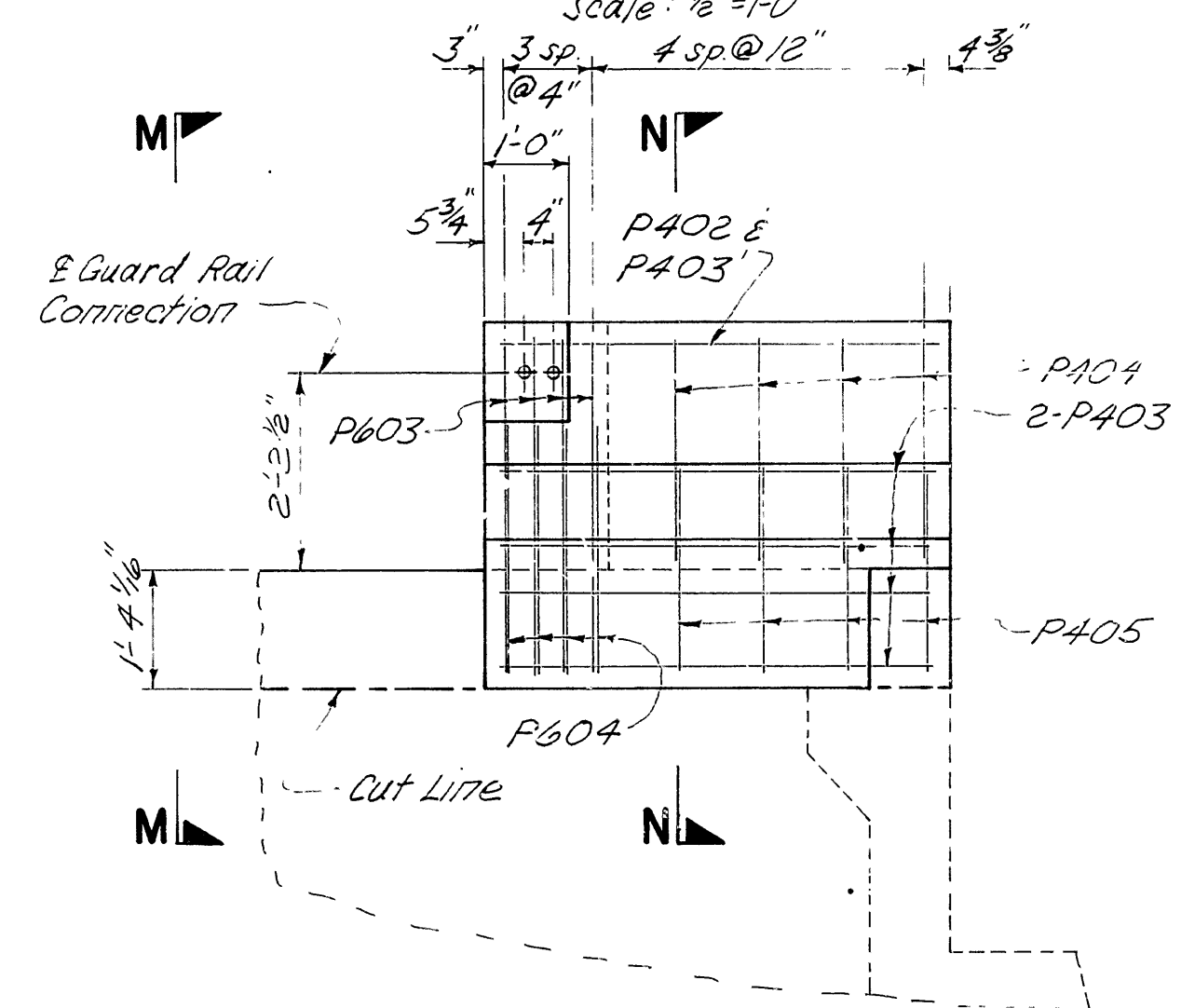
SECTION J-J
Scale: $\frac{1}{2}'' = 1'-0''$



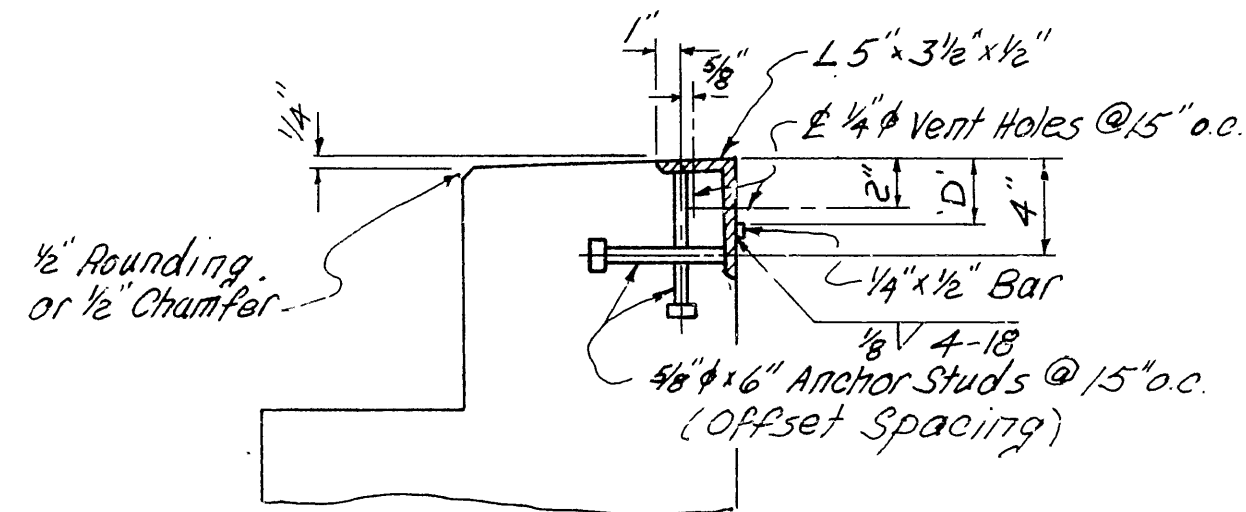
ANCHOR BOLT LAYOUT
Scale: 1"=1'-0"



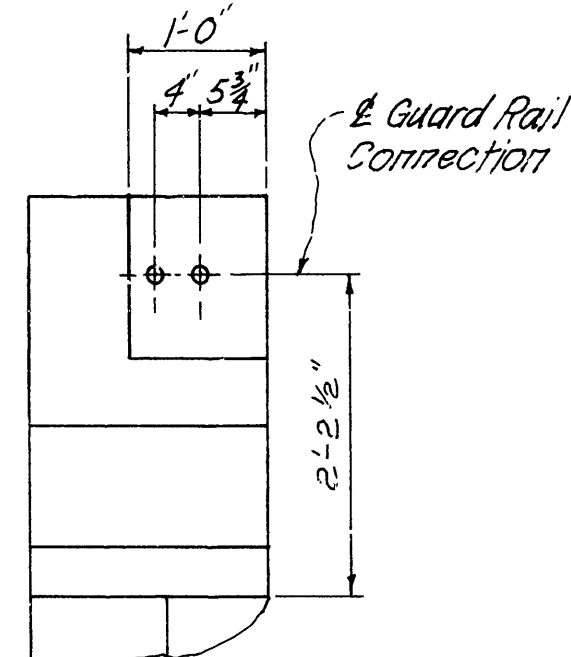
SECTION N-N
Scale: 1/2"=1'-0"



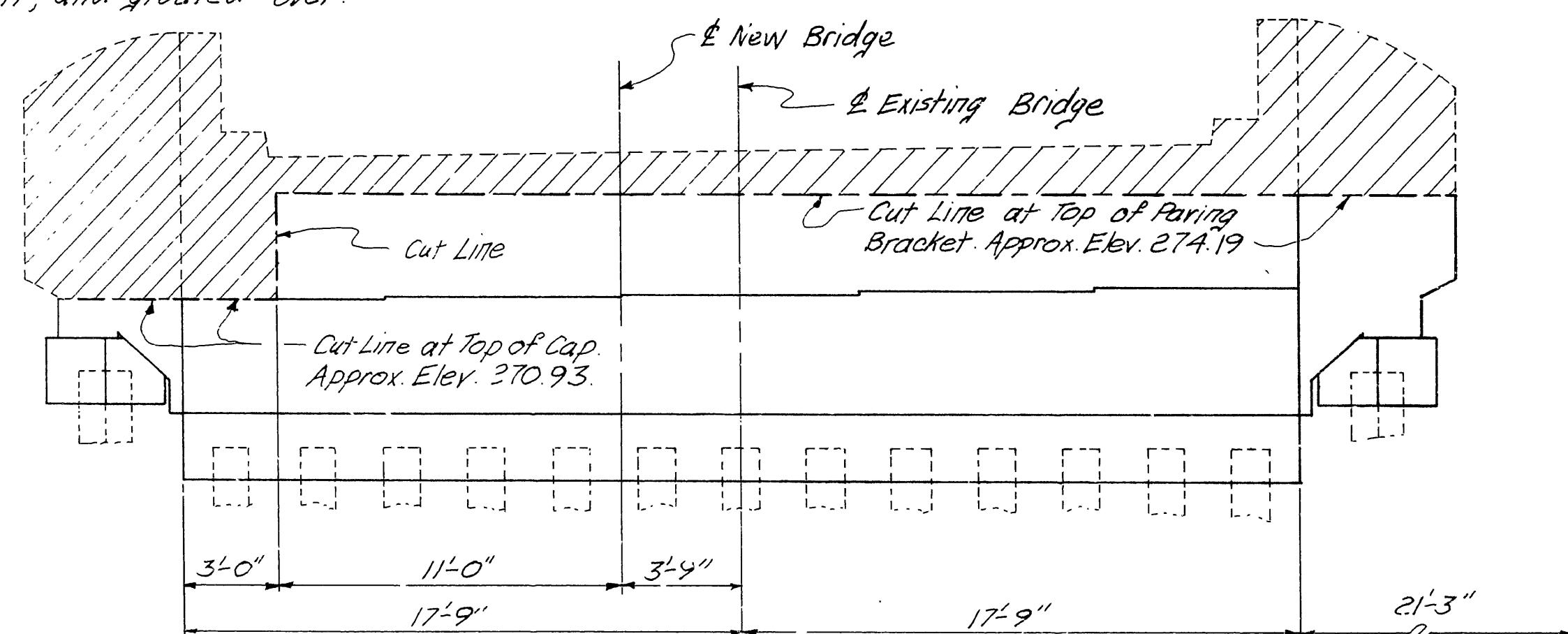
VIEW D-D
Scale: 1/2"=1'-0"



DETAIL X
Scale: 1/2"=1'-0"



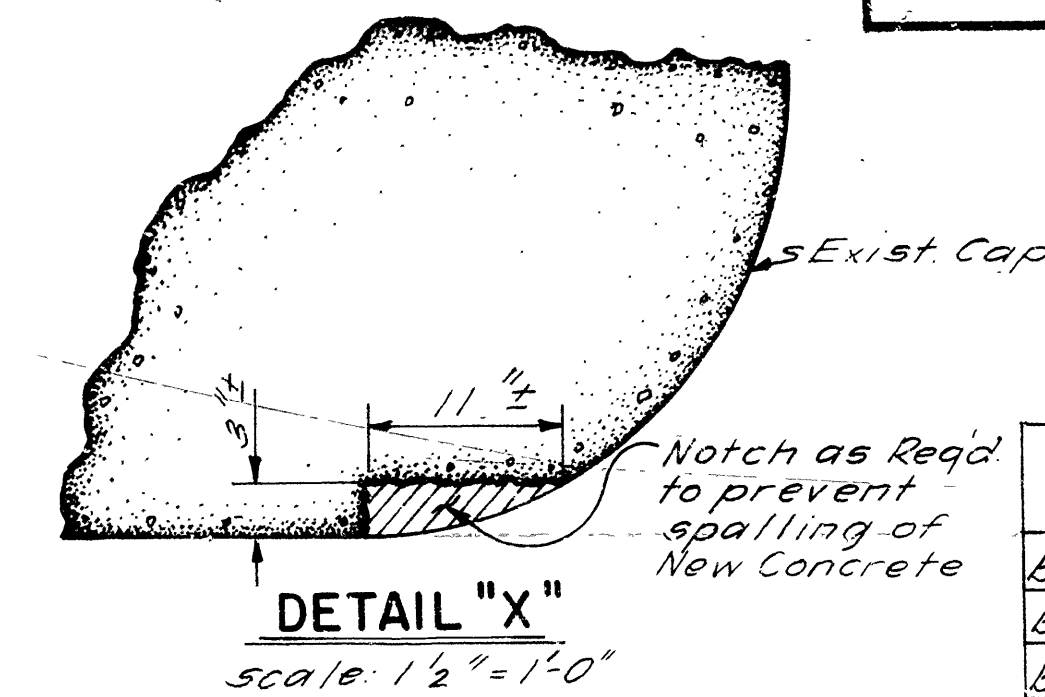
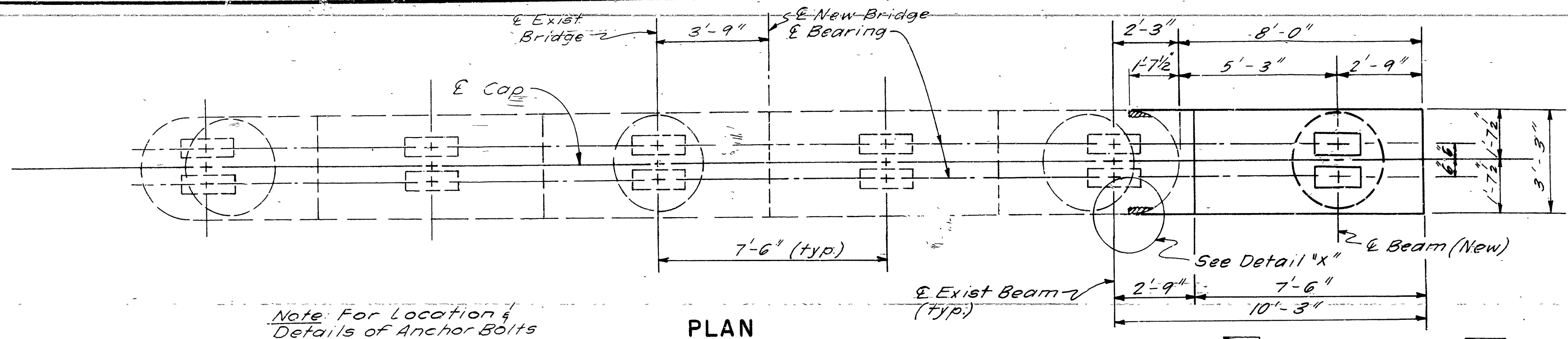
VIEW K-K
Scale: $\frac{3}{4}'' = 1'-0''$



REMOVAL DETAIL
Scale: 1/4" = 1'-0"

Symm. about Φ Median

SHEET 2 OF 2
DETAILS OF END BENTS
EAST BLYTHEVILLE
BURLINGTON NORTHERN R. R. OVERPASS
MISSISSIPPI COUNTY
ROUTE 1-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: ARW DATE: 8-5-85
CHECKED BY: DAW DATE: 10-3-85 SCALE: As Noted
DESIGNED BY: ARW DATE: 8-26-85
BRIDGE NO. 366 ARBR DRAWING NO. 27802



BAR LIST PER BENT

Mk.	No. Req'd	Length	Pin Dia.	Bending Diagrams
B401	4	8'-7"	str.	
B402	7	13'-0"	2"	
B403	3	9'-1"	2"	
B601	4	9'-3"	4 1/2"	
B602	4	8'-7"	str.	
C401	6	9'-9"	Cir.	
C901	12	F	str.	
C902	12	8'-0"	9"	
B603	10	2'-6"	str.	
F601	22	6'-10"	4 1/2"	

note: Dimensions are out to out of bars

GENERAL NOTES

CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH, f'c = 3500 PSI. ALL CONCRETE SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI).

PILING SHALL BE 14" SQUARE OR 16" PRECAST CONCRETE AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE.

IF ANCHOR BOLTS ARE DRILLED INTO CAP, TOP MAIN REINFORCING BARS SHALL BE PROPERLY PLACED TO AVOID DAMAGE.

FOR ADDITIONAL NOTES, SEE LAYOUT.

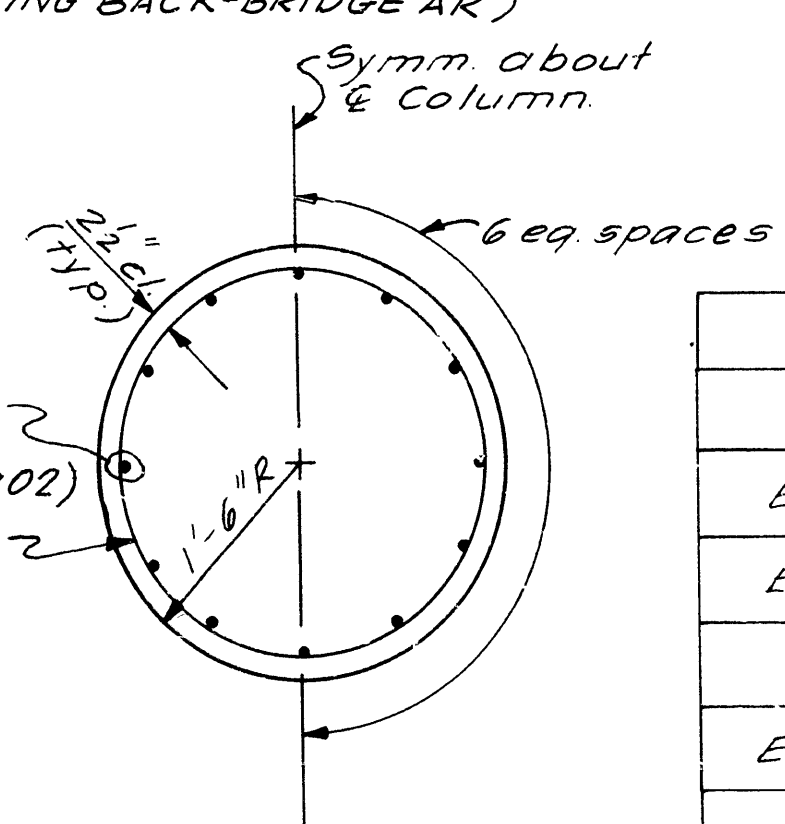
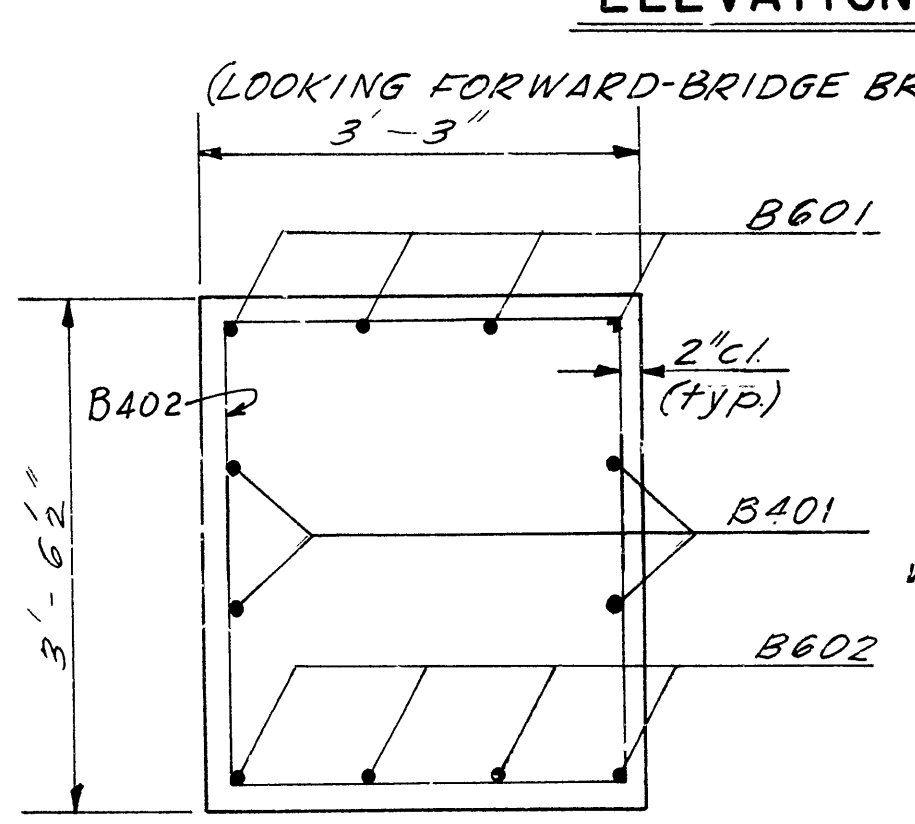
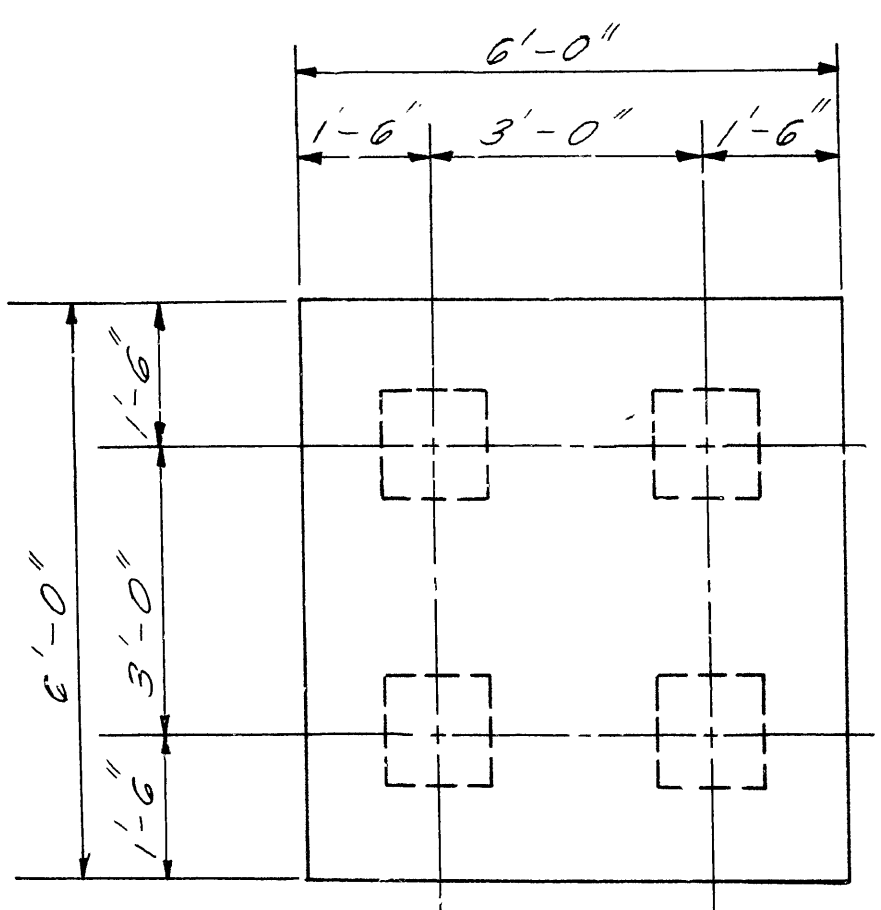
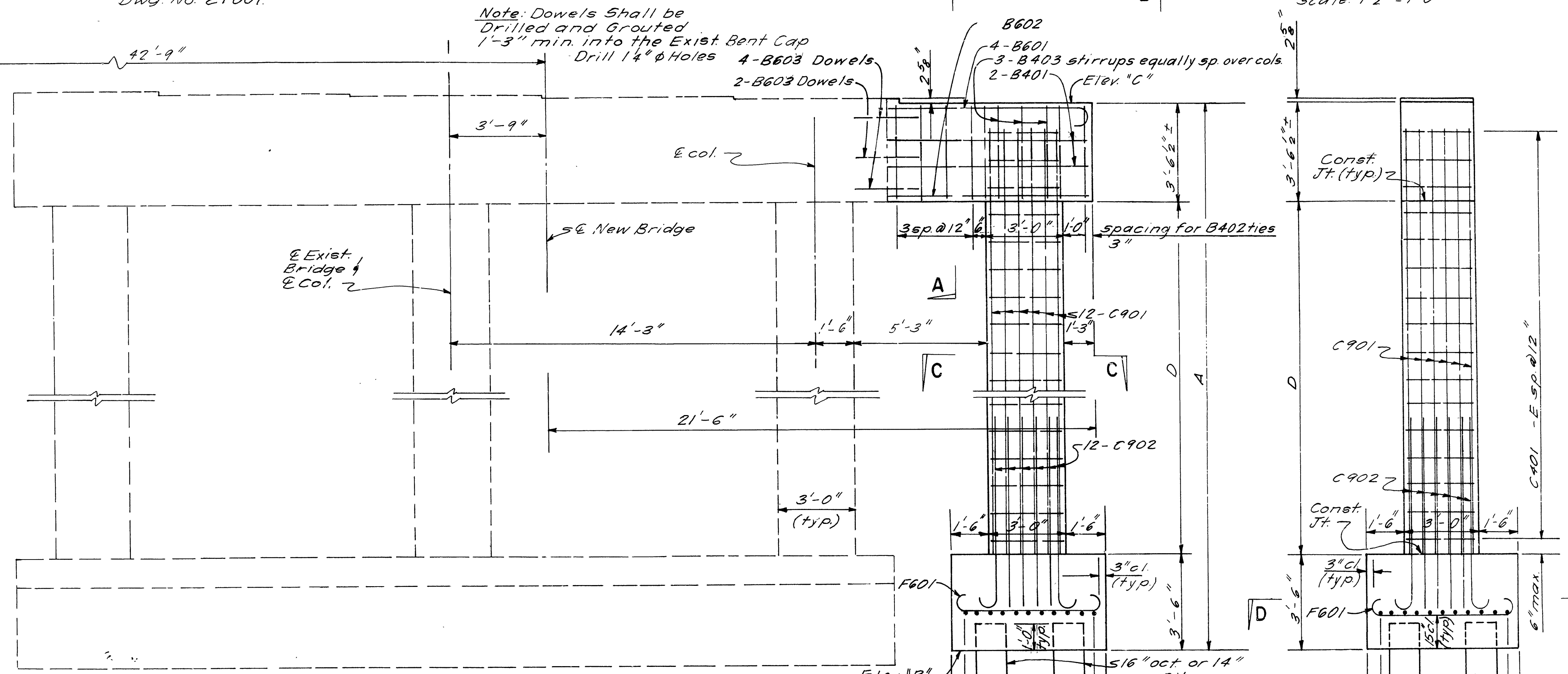


TABLE OF VARIABLES

BENT NOS.	2 1/2 AR & BR	3 1/4 AR & BR	4 1/2 AR & BR	5 1/2 AR & BR	6 1/2 AR & BR	7 1/2 AR & BR
A	25'-0 1/2"	26'-0 1/2"	26'-9 1/2"	27'-6 1/2"	27'-6 1/2"	28'-0 1/2"
Elev. "B"	246.89	246.94	247.06	247.00	247.51	247.33
Elev. "C"	271.93	272.98	273.85	274.54	275.05	275.37
D	18'-0"	19'-0"	19'-9"	20'-6"	20'-6"	21'-0"
E Spaces	20	21	22	23	23	23
F	20'-9"	21'-9"	22'-6"	23'-6"	23'-6"	23'-9"
G	21	22	23	24	24	24

DETAILS OF INT. BENT NOS.
2-7 AR & BR & 10-15 AR & BR
EAST BLYTHEVILLE
BURLINGTON NORTHERN R.R. OVERPASS
MISSISSIPPI COUNTY
ROUTE 1-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: E.J.K. DATE: 7-9-85
CHECKED BY: J.W.B. DATE: 8-8-85
DESIGNED BY: A.P.W. DATE: March-85

BRIDGE NO. 3166 AR & BR DRAWING NO. 27803

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	100133	58	80	

① 3166 AR & BR DTLS. OF B.T.S. 27804

BAR LIST PER BENT

MK	No. Req'd.	Length	Pin Dia.	Bending Diagrams
B401	8	9'-7"	2"	
B402	7	7'-5"	str.	
B403	4	7'-7"	str.	
B404	6	10'-8"	2"	
B405	8	2'-6"	str.	
B406	3	7'-2"	str.	
B408	18	10'-8"	2"	
B601	18	2'-6"	str.	
B602	4	7'-7"	str.	
B603	4	8'-3"	4 1/2"	
C401	17	9'-9"	str.	
C501	16	4'-8"	2 1/2"	
C502	20	10'-2"	str.	
C901	12	13'-5"	str.	
C902	12	11'-6"	str.	
F601	34	8'-6"	str.	

Note: Dimensions are out to out of bars

GENERAL NOTES

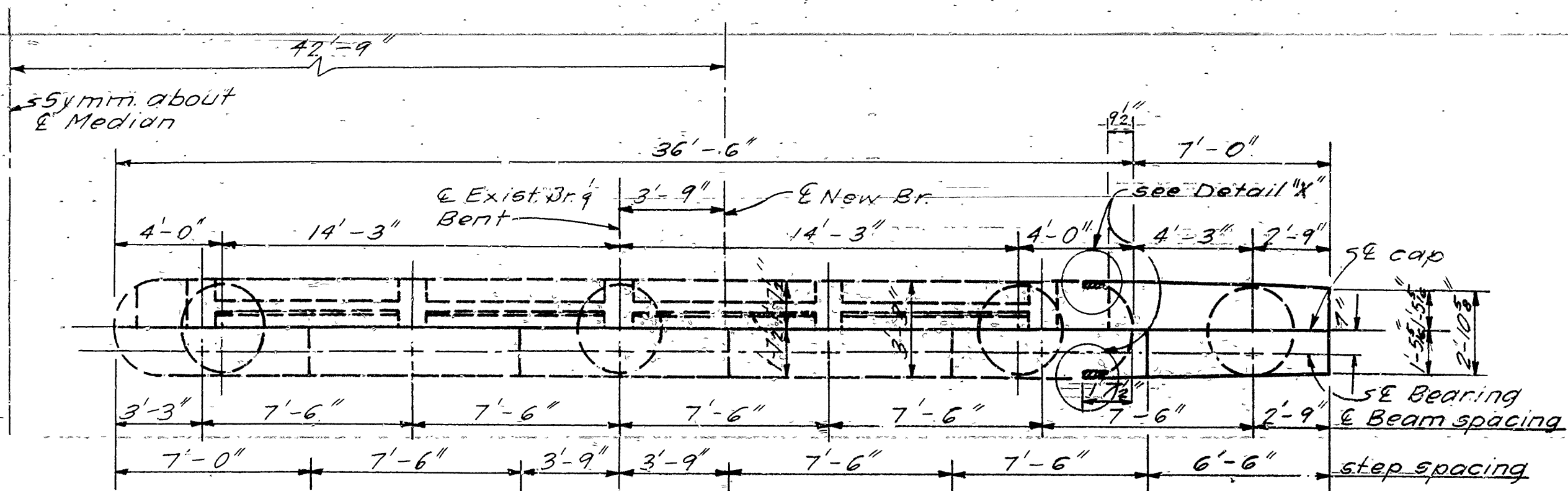
CONCRETE SHALL BE CLASS "S" WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH, $f'_c = 3500$ PSI. ALL CONCRETE SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000).

PILING SHALL BE 14" SQUARE OR 16" PRECAST CONCRETE AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE.

IF ANCHOR BOLTS ARE DRILLED INTO CAP, TOP MAIN REINFORCING BARS SHALL BE PROPERLY PLACED TO AVOID DAMAGE.

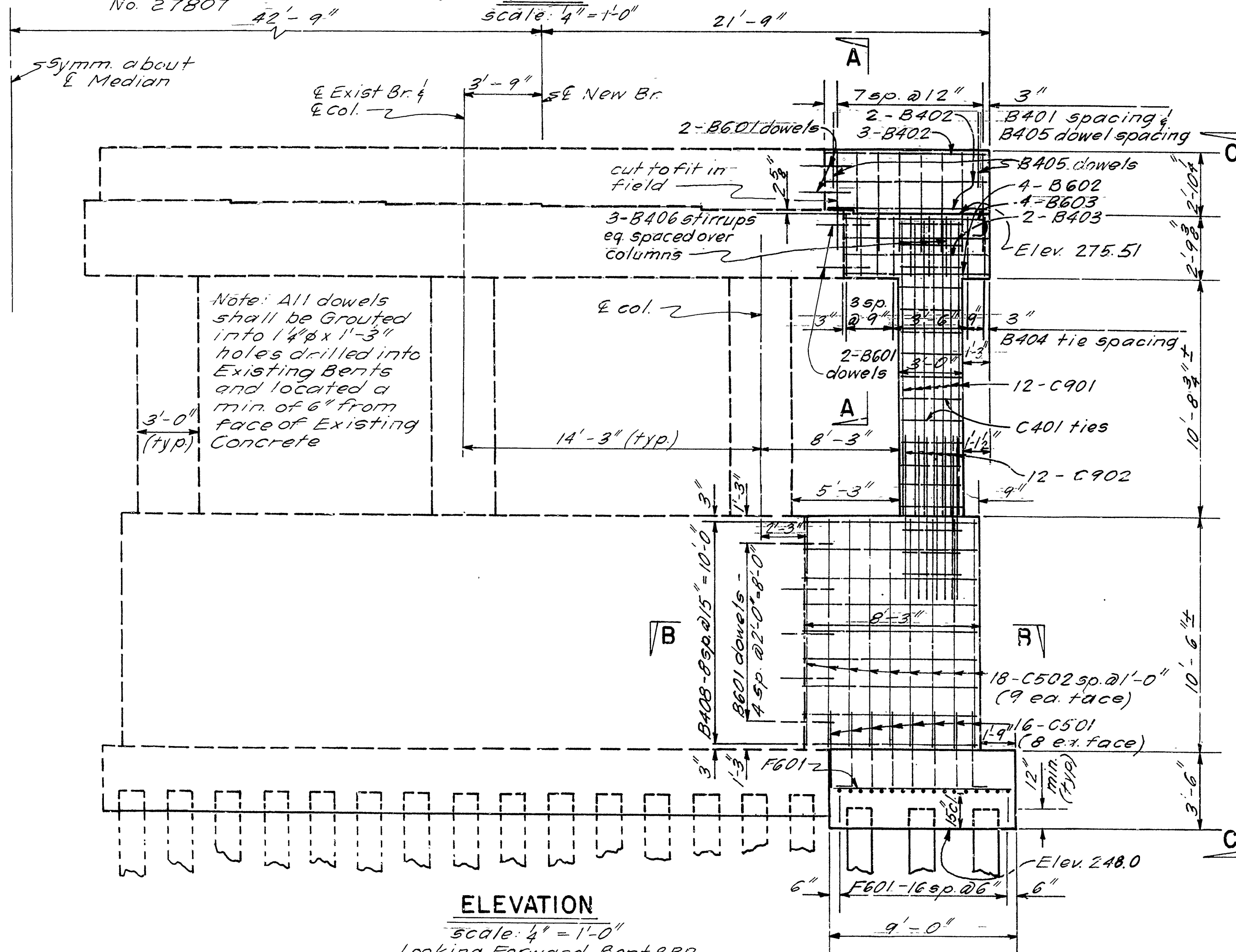
FOR ADDITIONAL NOTES, SEE LAYOUT.



Note: For Location and Details of Anchor Bolts for Type D-1 shoes, see Drawing No. 27807

PLAN

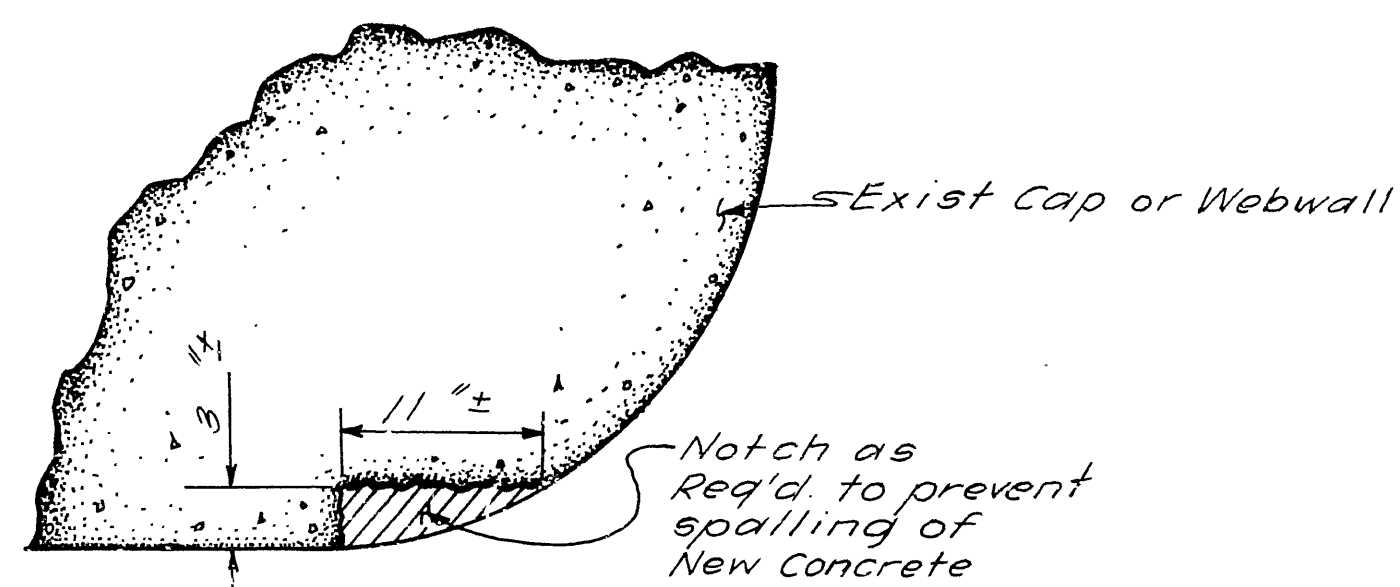
scale: 4" = 1'-0"



ELEVATION

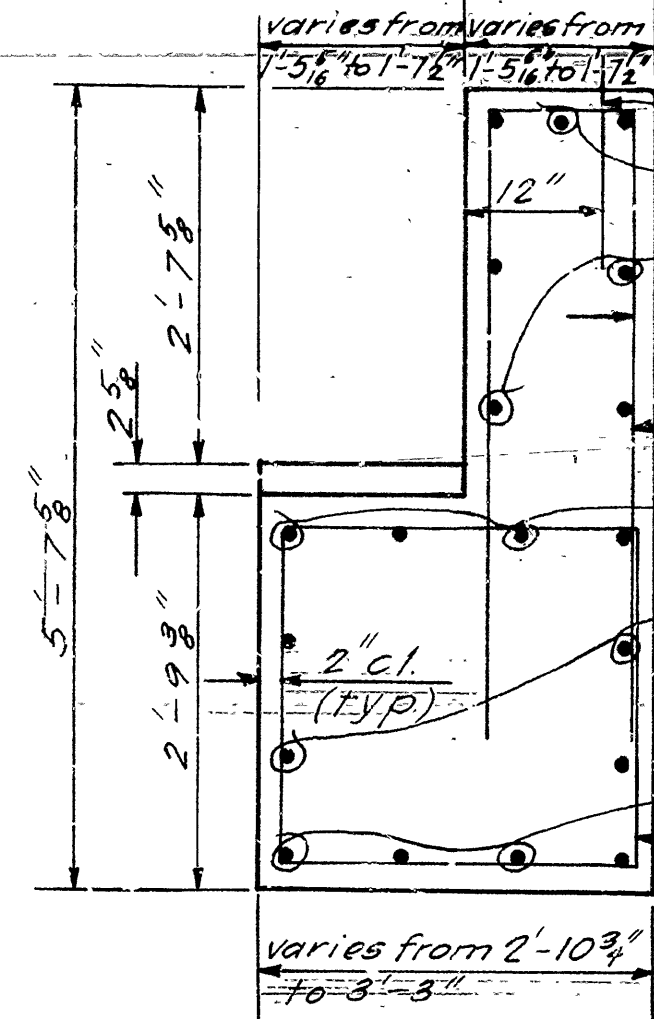
scale: 4" = 1'-0"

Looking Forward Bent 8 BR
Looking Back Bent 9 AR



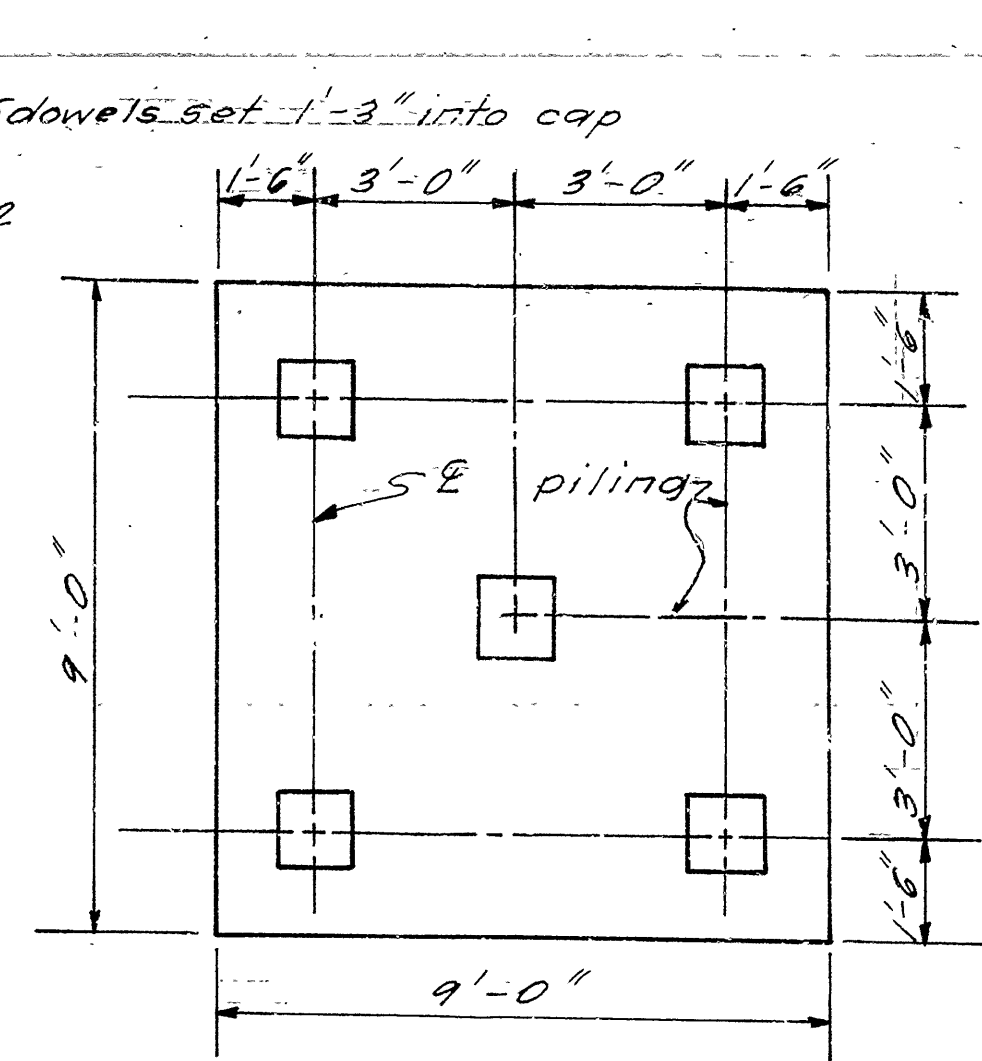
DETAIL "X"

scale: 1/2" = 1'-0"



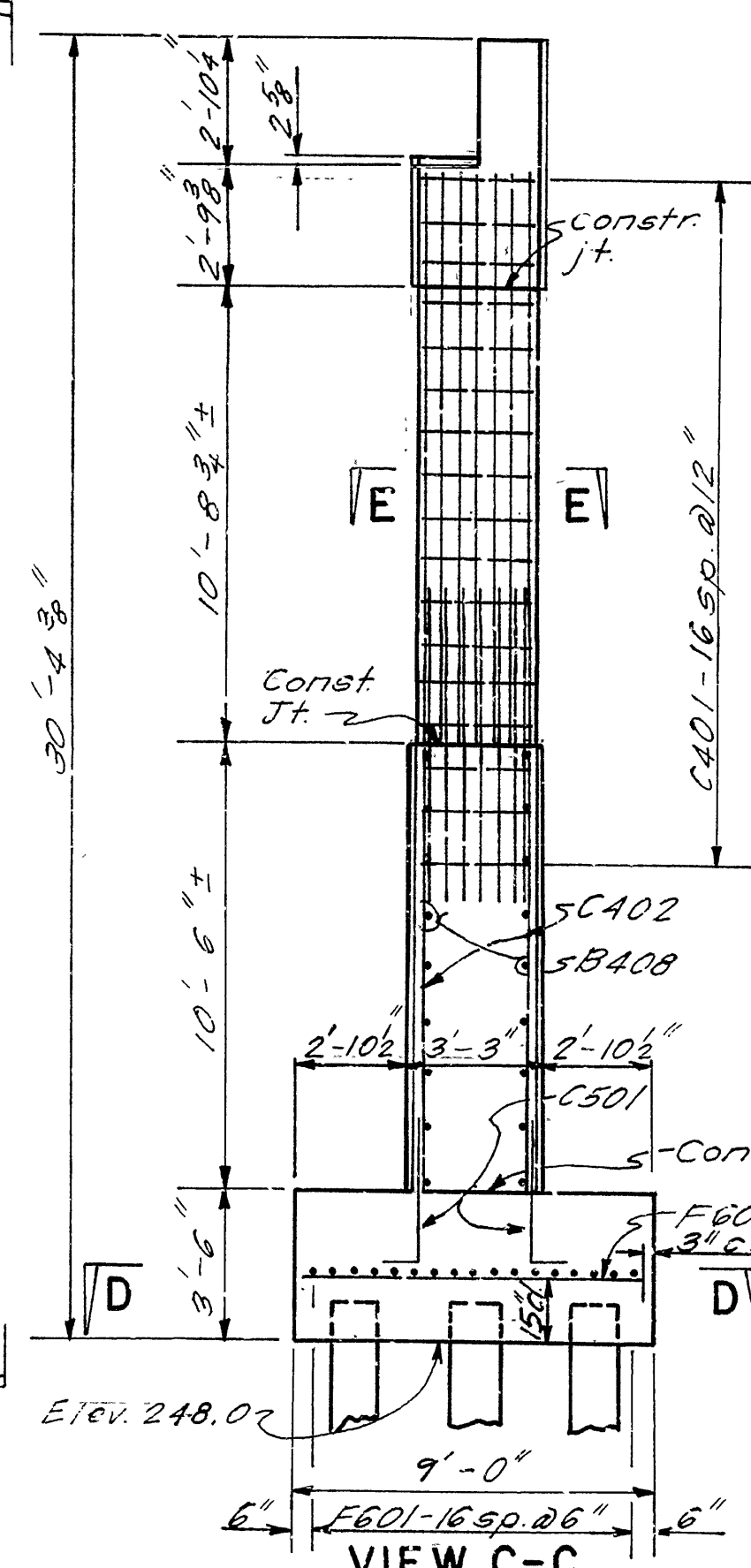
SECTION A-A

scale: 3/4" = 1'-0"



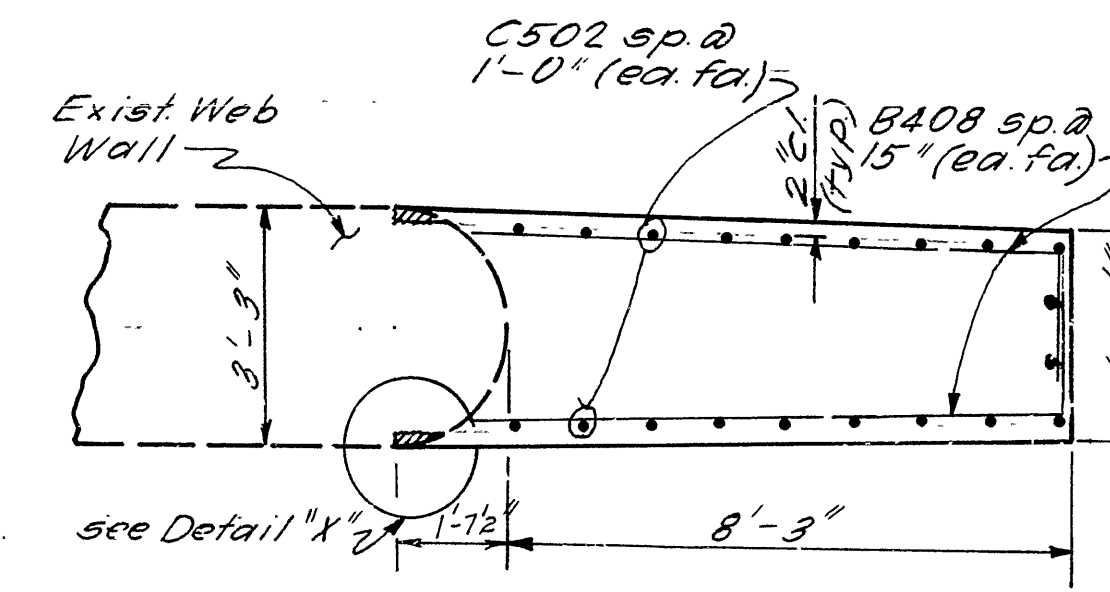
SECTION D-D

scale: 3/8" = 1'-0"



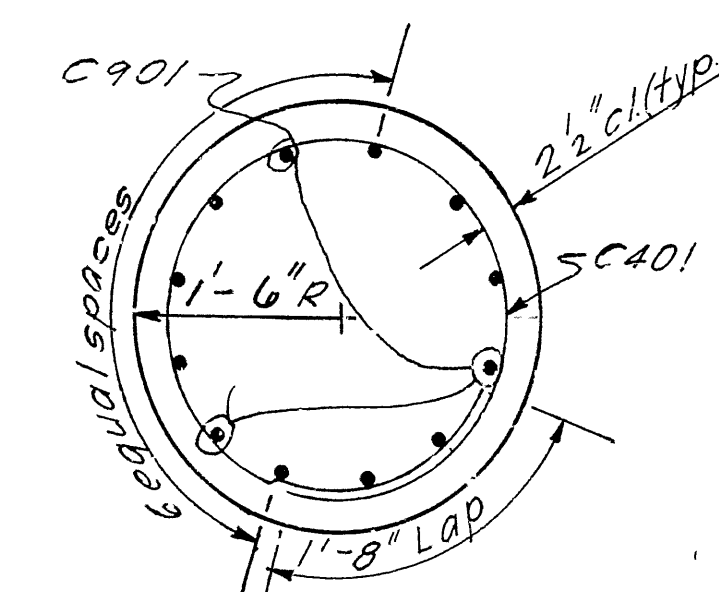
VIEW C-C

scale: 1/4" = 1'-0"



SECTION B-B

scale: 3/8" = 1'-0"



SECTION E-E

scale: 3/4" = 1'-0"

DETAILS OF INT. BENT NOS.

8 & 9

EAST BLYTHEVILLE

BURLINGTON NORTHERN R.R. OVERPASS

MISSISSIPPI COUNTY

ROUTE 1-55 SEC. 12

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: EJK DATE: 7-30-85

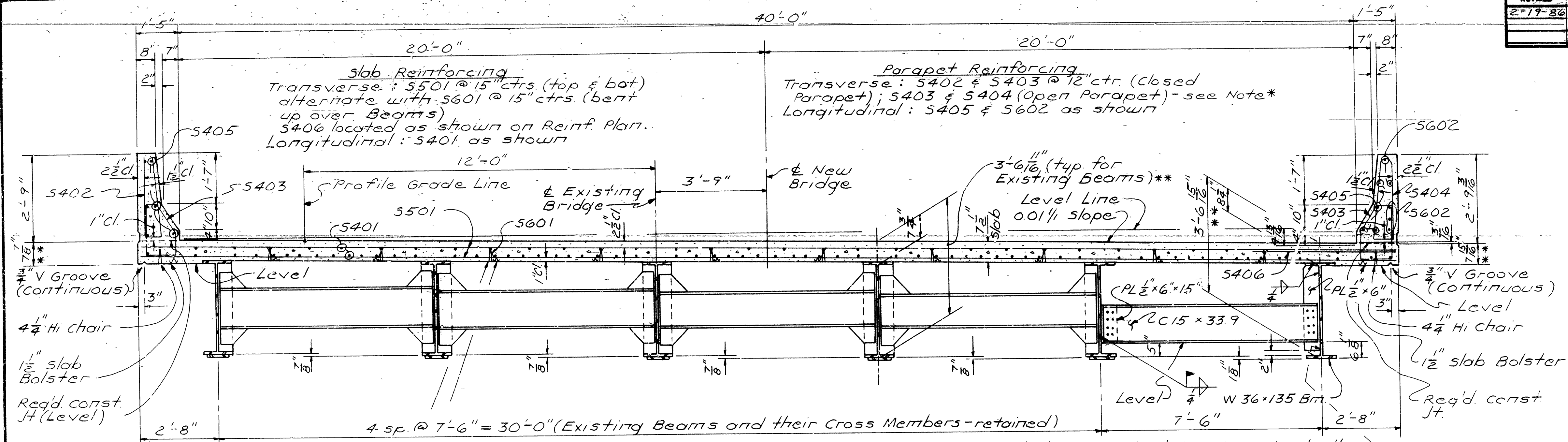
CHECKED BY: BJB DATE: 8-14-85

DESIGNED BY: ARW DATE: March 85

SCALE: As noted

BRIDGE NO. 3166 AR & BR DRAWING NO. 27804

DATE	DATE	DATE	DATE	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-19-86	831-2-20-86	REVISED	DATE FILMED	6	ARK.		59	80
				JOB NO.	100/33		59	80
				3166AR & BR SPAN-DTL'S 27805				



ROADWAY SECTION

Note: The concrete Bridge Deck shall be given a fine finish as specified for final finishing in subsection 802.23 for class 6, Roadway Surface Finish.

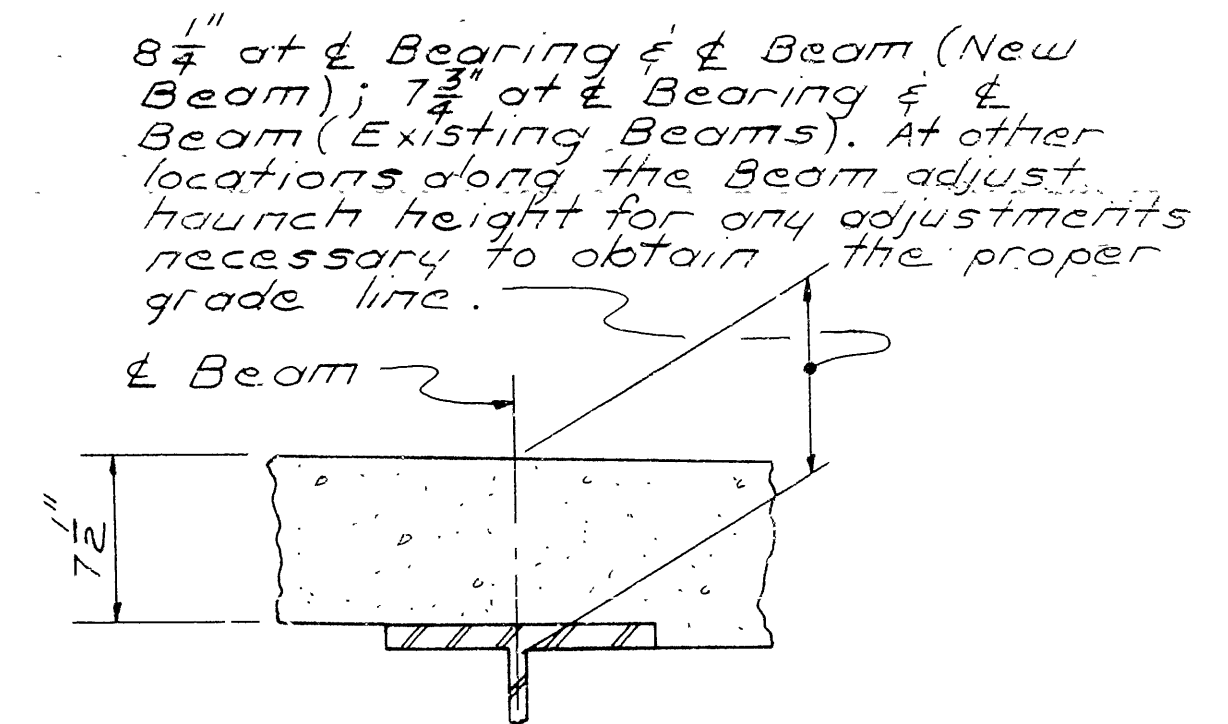
Note: Boiled Linseed oil treatment shall be applied to the roadway surface and the face and top of the concrete parapet rail.

*For spacing of 5403 & 5404 - see Longitudinal Section At Curb For Open Parapet Railing.

Note: At the contractors option, in lieu of providing bar 5601, one number 6 bar top & bottom may be substituted. Payment will be based on the weight of bar 5601. Bars in top mat shall be epoxy coated.

Roadway section and Expansion Device Section are Looking Forward at Br. no. 3166 BR & Looking Back at Br. no. 3166 AR.

Expansion Device: Roadway C15x33.9 x 40'-0"; Conn. L's 8"x4"x1/2"x12"; Pre-formed Joint Sealer supported by 7/8"x2" bars; Detail Device, 8" high & provide 1/4" shims using 2-1/8" & 1-5/8" PL's. 5/8" x 8" studs @ 12" (in top & bot.)

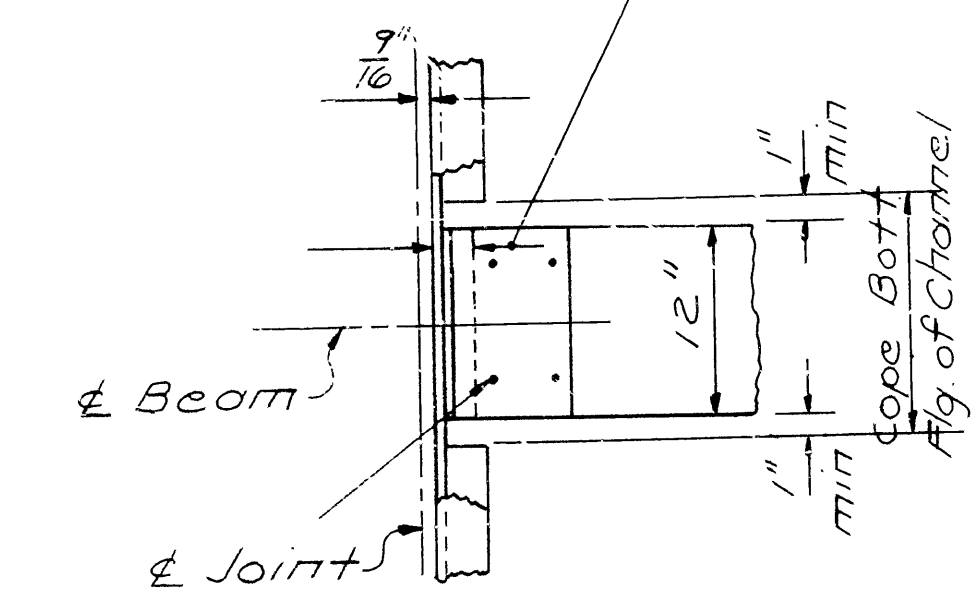


BEAM HAUNCH

DETAIL

Scale: 1/2" = 1'-0"

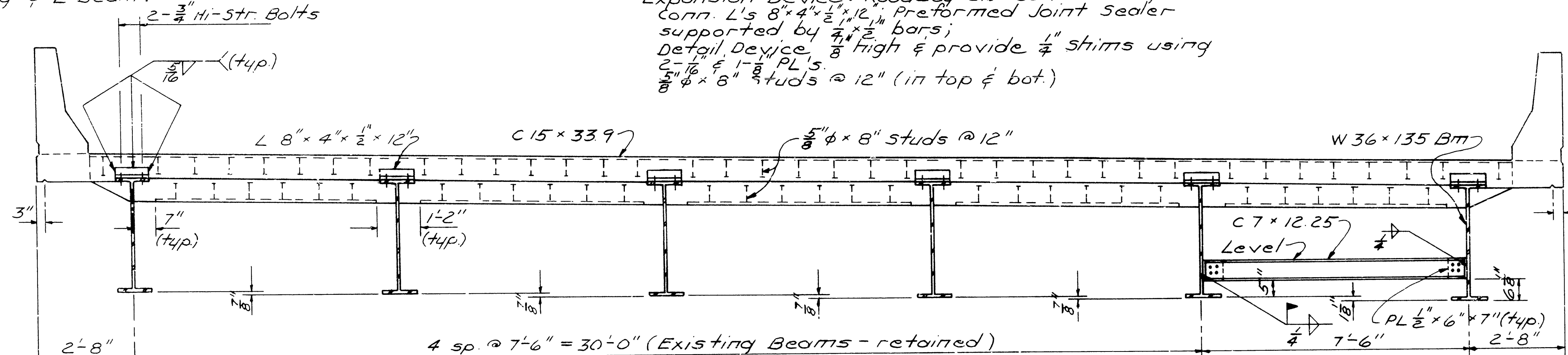
Dimension to be determined in the field for Existing Beams; 1/4" for New Beam



CHANNEL CONNECTION

Scale: 1" = 1'-0"

Holes for 3/4" Hi Str Bolts (1" & in flange & 1/2" x 1/2" slot in angle) Washer on top & bot.



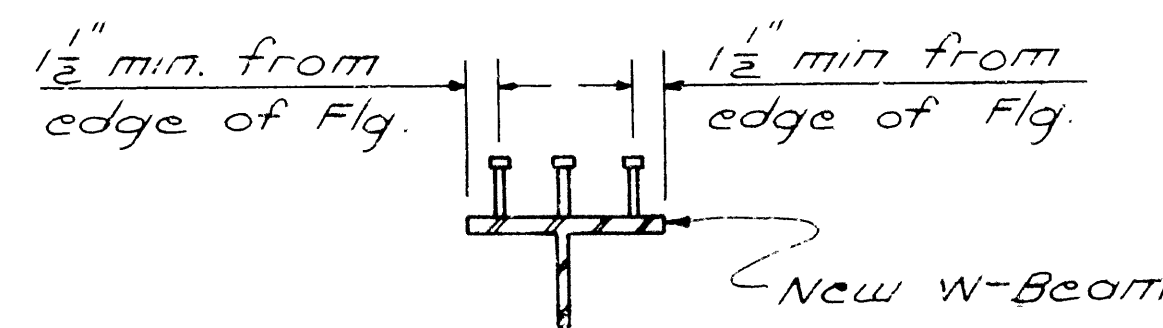
EXPANSION DEVICE SECTION

Note: Holes for 3/4" high strength bolts for Expansion Device, Diaphragms & End Struts may be 1/2" & holes if a washer is supplied for use under both the nut & the head of the bolt.

All Existing 7/8" Hi-Str Bolts that are loosened or removed shall be replaced with new 3/4" Hi-Str Bolts.

Any Existing Shear Connectors that have been damaged beyond repair as directed by the Engineer shall be replaced with 7/8" x 4" stud shear connectors at the Contractor's own expense.

For Joint Details and General Notes - see dwg. no. 27801.



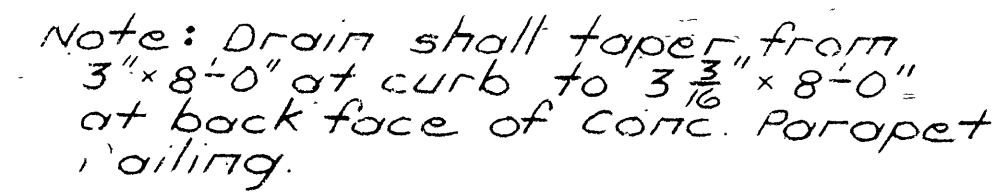
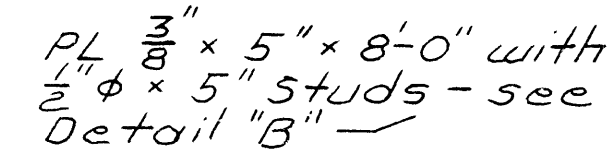
SHEAR CONNECTOR DETAIL

No Scale

Revised Note; by J.P.S.; date: 2-19-86

NOTE: 3/4" STUD SHEAR CONNECTORS FOR NEW BEAMS SHALL BE 4" LONG, GRANULAR FLUX FILLED, SOLID FLUXED OR EQUAL, AND AUTOMATICALLY END WELDED TO BEAM FLANGES IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER. 7/8" DIAMETER STUD MAY BE SUBSTITUTED FOR THE 3/4" DIAMETER STUD SHOWN AT THE RATIO OF 0.73 - 7/8" STUDS IN PLACE OF ONE 3/4" STUD. THE 3/4" STUDS SHALL BE USED AS THE BASIS OF PAYMENT OF 61.5 LBS. PER ONE HUNDRED STUDS.

SHEET 1 OF 3
DETAILS COMMON TO
COMPOSITE W-BEAM SPANS
EAST BLYTHEVILLE
BURLINGTON NORTHERN R.R. OVERPASS
MISSISSIPPI COUNTY
ROUTE 1-55 SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: J.P.S. DATE: 6-5-85
CHECKED BY: J.P.S. DATE: 9-25-85
DESIGNED BY: J.P.S. DATE: 1-25-85
BRIDGE NO. 3166 AR & BR
DRAWING NO. 27805
SCALE: 1/2" = 1'-0" or as noted



THE 1/2" Ø STUDS SHALL BE GRANULAR FLUX FILLED, SOLID FLUXED, OR EQUAL, AND AUTOMATICALLY END WELDED TO THE 3/8" PLATES IN ACCORDANCE WITH RECOMMENDATION OF THE MANUFACTURER. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF SECTION 807.

NOTES :

BEAMS ARE CONSIDERED MAIN LOAD CARRYING MEMBERS AND SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST SPECIFIED IN SECTION 807.05 OF THE STANDARD SPECIFICATIONS.

LIVE LOAD: HS20 & MILITARY

INTERIOR BEAM EXTERIOR BEAM

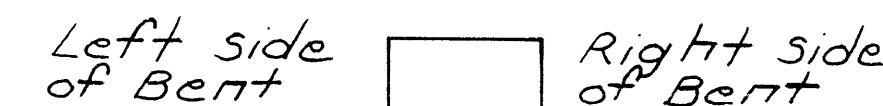
B. TO COMPOSITE BEAM 211 PLF* 367 PLF*

*INCLUDES 133 PLF FUTURE WEARING SURFACE.

CLASS S OR S(AE) CONCRETE (N=9)	$f'_c = 3500 \text{ PSI}$
REINFORCING STEEL (A615 OR A617,)	$f_y = 60,000 \text{ PSI}$
STRUCTURAL STEEL (A36)	$f_y = 36,000 \text{ PSI}$
STRUCTURAL STEEL (A572, GRADE 50)	$f_y = 50,000 \text{ PSI}$

EXISTING ANCHOR BOLT REPLACEMENT TABLE

Existing Beam (typ.)



Bent No.	Masonry Plate Thickening	
	Lt Side	Rt Side
2		$\frac{1}{4}''$
3		$\frac{1}{8}''$
4		$\frac{1}{8}''$
5		$\frac{1}{8}''$
12	$\frac{1}{8}''$	
13	$\frac{1}{8}''$	
14	$\frac{1}{8}''$	
15	$\frac{1}{4}''$	

Note: At Bt. Nos. 1 & 16 of Br. Nos. 3166A & 3166B, replace all existing Masonry Plates ($1\frac{1}{2}'' \times 7'' \times 1-9''$) with bearing surface finished to ANSI 250. New $\frac{1}{8}''$ Bearing Pads shall be installed on these Masonry Plates.

Note: Replace other existing Masonry Plates, Bearing Pads, Anchor Bolts, Nuts and Felt & Plate Washers as directed by the Engineer - see Job SP "Replacing Existing Bearing Devices and Anchor Bolts".

DETAILS COMMON TO COMPOSITE W-BEAM SPANS

BURLINGTON NORTHERN R.R. OVERPASS

ROUTE 1 - 55 SEC.

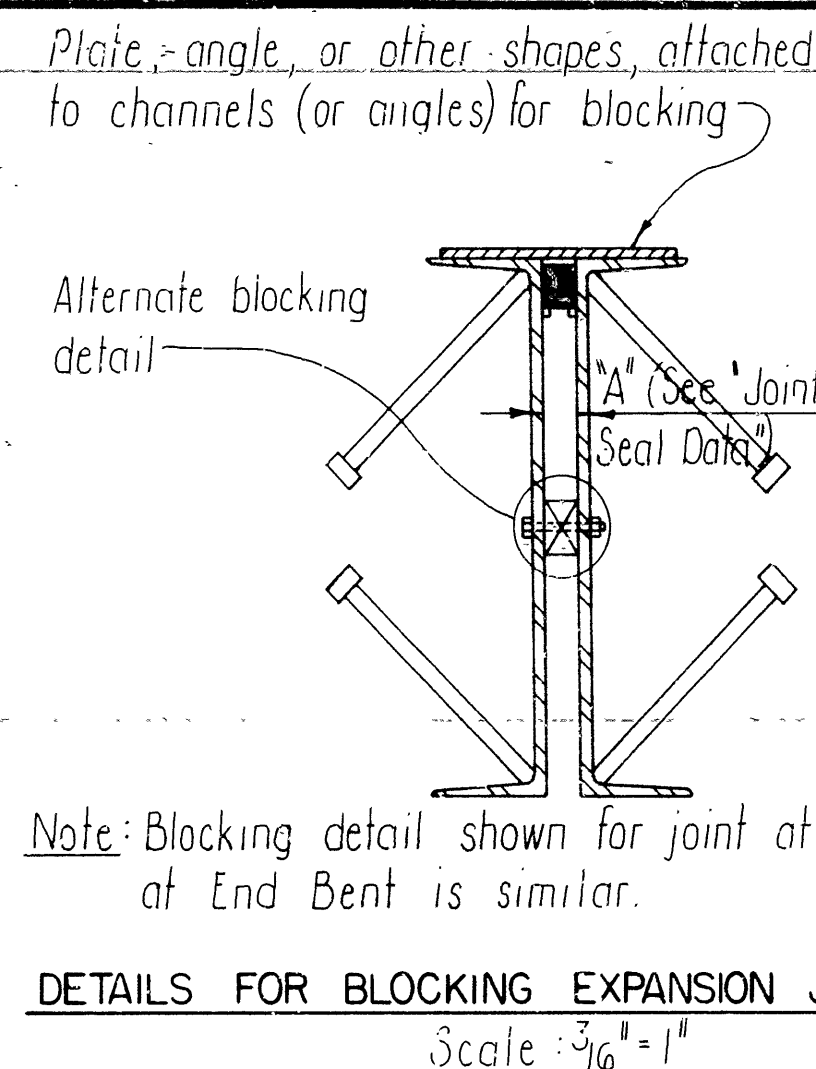
LITTLE ROCK, ARK.

DRAWN BY: J.P.S.

CHECKED BY: BAB DATE: 1-25-85
APL Feb 25

DESIGNED BY: AMM DATE: FEB-83
BRIDGE NO. 3166AR & 3166BR DRAWING NO. 27806

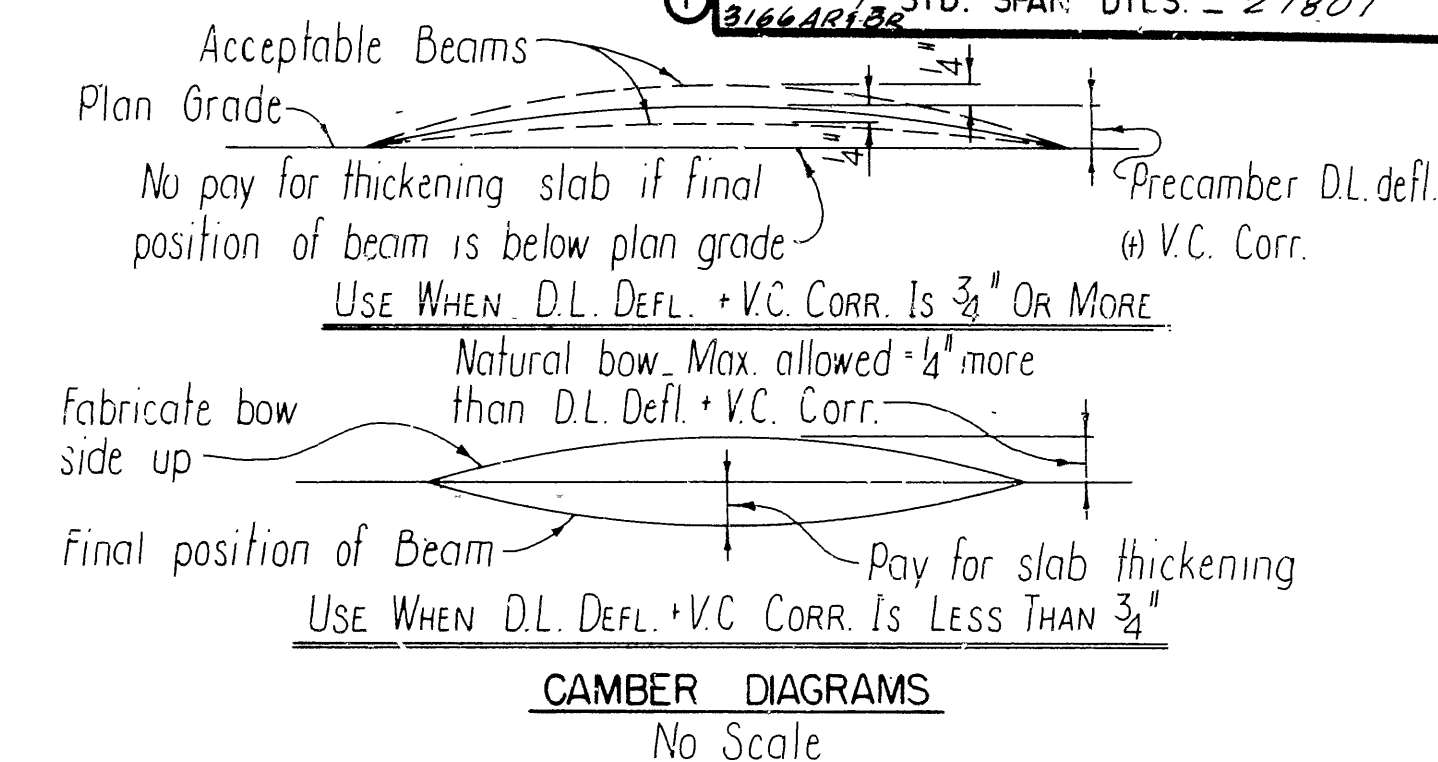
BRIDGE NO. 3166AR &
3166BR



Note: Each expansion joint device shall be blocked in the shop by the Fabricator to the dimension "A", and the blocking details shall be shown on the Shop Drawings. The blocking shall not be removed until pouring of the Slab on one side is complete. Removal shall be just before or after pouring the second side of the joint, as directed by the Engineer.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	100133		61	80

① 31664R133 STD. SPAN DTLS. - 27807



GENERAL NOTES

CONCRETE: ALL CONCRETE TO BE CLASS S OR S(AE) AS SHOWN ON THE LAYOUT. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.

CONCRETE SLABS FOR SPANS THRU 50 FEET IN LENGTH SHALL BE POURED IN ONE CONTINUOUS OPERATION WITH A STRIKE OFF EXTENDING OVER THE WHOLE SPAN LENGTH. SPANS OVER 50 FEET IN LENGTH SHALL BE POURED IN SECTIONS WITH THE CENTER ONE-THIRD TO ONE-HALF SPAN LENGTH POURED FIRST. AFTER THE CENTER SECTION IS POURED, NOT LESS THAN 72 HOURS SHALL ELAPSE BEFORE POURING THE END SECTIONS. END SECTIONS MAY BE POURED SIMULTANEOUSLY. IF NOT POURED SIMULTANEOUSLY, 48 HOURS SHALL ELAPSE BETWEEN END SECTION POURS. A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN COMPLETION OF THE SLAB AND THE POURING OF THE PARAPET RAILING OR CURB.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60. THE REINFORCING STEEL IS TO BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY STEEL WIRE SUPPORTS, SUFFICIENT IN NUMBER AND SIZE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION. THE WIRE SUPPORTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL." SHOP LISTS AND BENDING DIAGRAMS OF REINFORCING STEEL, INCLUDING WIRE SUPPORTS, MAY BE SUBMITTED FOR APPROVAL BEFORE FABRICATION IS BEGUN.

STRUCTURAL STEEL: ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.

ALL FIELD CONNECTIONS TO BE BOLTED WITH HIGH STRENGTH BOLTS.

ALL BOLTS TO BE 3/4" Ø, WITH 13/16" Ø OPEN HOLES, UNLESS OTHERWISE NOTED.

HOLES FOR 3/4" Ø BOLTS FOR CONNECTION OF EXPANSION DEVICES, DIAPHRAGMS, AND END STRUTS MAY BE 15/16" Ø IF A WASHER IS SUPPLIED FOR USE UNDER BOTH THE NUT AND THE HEAD OF THE BOLT.

STRUCTURAL SHAPES OF EQUAL OR GREATER STRENGTH MAY BE SUBSTITUTED FOR SHAPES SHOWN, BUT PAYMENT WILL BE MADE ON THE BASIS OF SHAPES SHOWN.

UNLESS OTHERWISE NOTED ON SPAN DETAIL DRAWINGS, ALL **NEW STR.** STEEL, EXCEPT SURFACES IN CONTACT WITH CONCRETE, SHALL BE GIVEN ONE SHOP COAT AND TWO FIELD COATS IN ACCORDANCE WITH SECTION 807.59 OF THE SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL METAL BEARING AND ROADWAY EXPANSION DEVICES TO BE PAID FOR AS "STRUCTURAL STEEL IN BEAM SPANS." BEARINGS SHALL BE FINALLY SEATED IN ACCORDANCE WITH SECTION 807.51 OF THE SPECIFICATIONS. THIS WORK AND MATERIAL ARE TO BE CONSIDERED AS SUBSIDIARY TO THE ITEM "STRUCTURAL STEEL IN BEAM SPANS" AND WILL NOT BE PAID FOR DIRECTLY.

ALL WELDED CONNECTIONS TO BE 5/16" FILLET SHOP WELDS UNLESS NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, CURRENT EDITION.

ANCHOR BOLTS SHALL BE GALVANIZED TO CONFORM TO ASTM SPECIFICATIONS, DESIGNATION A153.

ALL CASTINGS FOR SHOES SHALL BE ASTM A27, GRADE 70-40 OR 70-36.

WELDED SHOES MAY BE USED IN PLACE OF THE TYPE "D" SHOES SHOWN. APPROVED DETAILS WILL BE FURNISHED ON REQUEST.

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

THIS DRAWING SHOWS GENERAL FEATURES OF DESIGN ONLY. SHOP DRAWINGS SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS, SUBMITTER AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

FOR PAINTING EXISTING STRUCTURAL STEEL SEE JOB SP "PAINTING EXISTING STRUCTURAL STEEL".

SHEET 3 OF 3

DETAILS COMMON TO

COMPOSITE W-BEAM SPANS

EAST BLYTHEVILLE

BURLINGTON NORTHERN R.R. OVERPASS

MISSISSIPPI COUNTY

ROUTE 1-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION

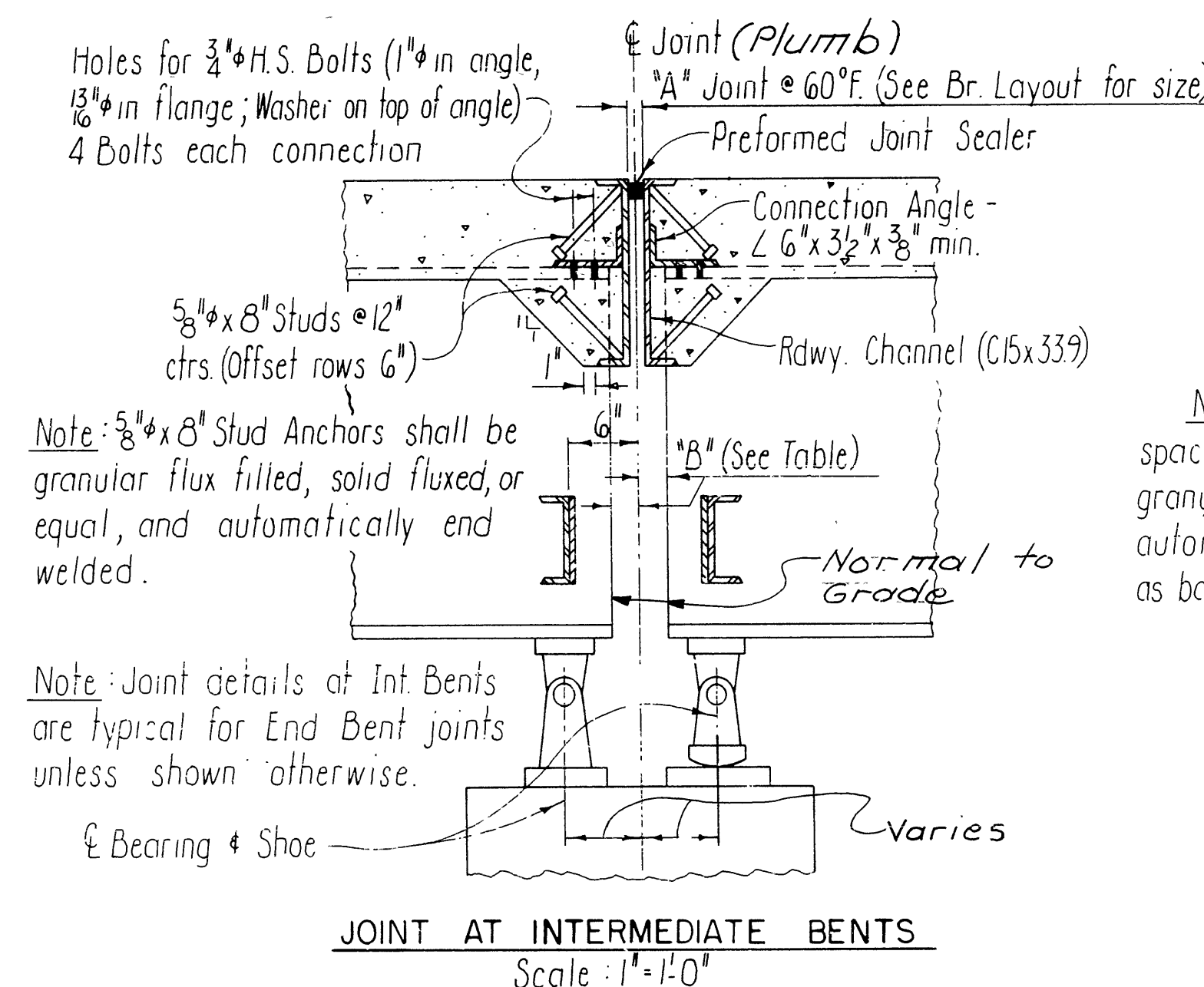
LITTLE ROCK, ARK.

ALTERED BY: J.P.S. DATE: 6-6-85 SCALE: $\frac{3}{16}'' = 1''$ or as noted

CHECKED BY: D.B. DATE: 9-25-85

DESIGNED BY: APW DATE: Feb-85

BRIDGE NO. 3166 AR & BR DRAWING NO. 27807

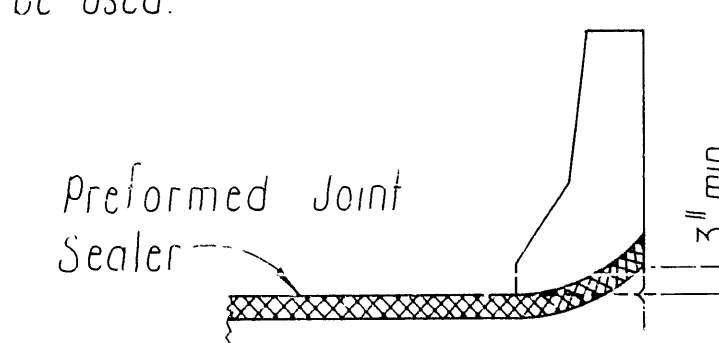


JOINT SEAL DATA

"A" (Joint Width Perpendicular to Joint @60°F)*	"B"	"C" (Uncompressed Seal Width)
1"	1 3/4" ±	1 5/8" **
1 1/8"	1 7/8" ±	1 3/4"
1 5/8"	2 6/8" ±	2 1/2"
1 7/8"	2 4/4" ±	3"
2 1/4"	2 3/8" ±	3 1/2"
2 5/8"	2 5/8" ±	4"

* Installation is limited to 40°F min and 80°F max

* * $1\frac{3}{4}$ " Seal may be used.

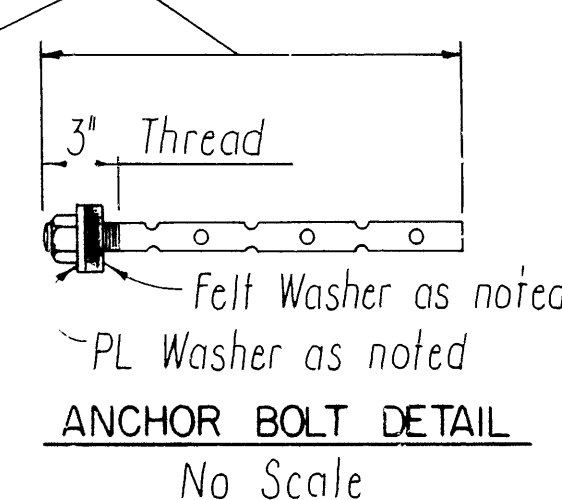
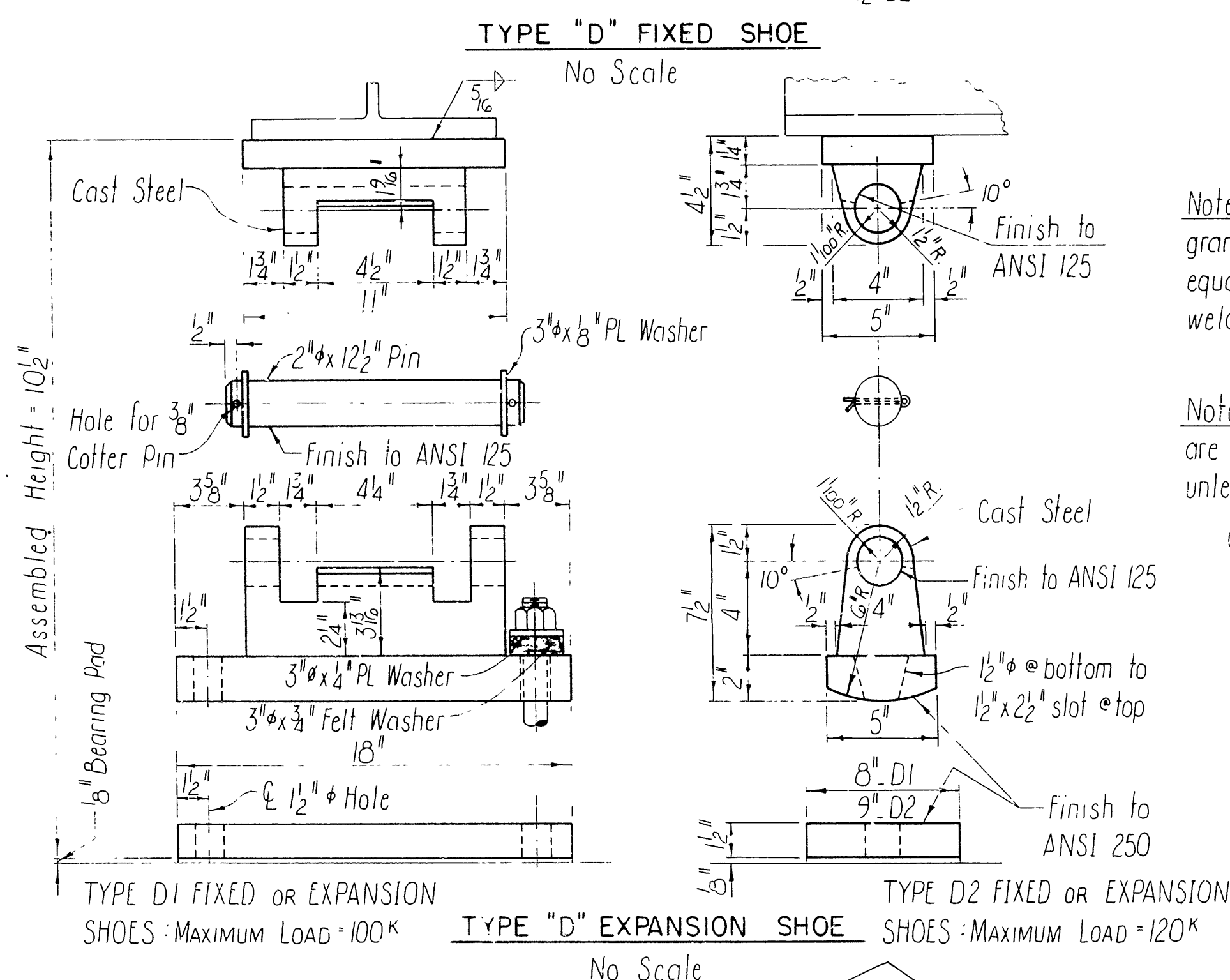


JOINT SEAL PLACEMENT AT CURB
Scale: 1/2" = 1'-0"

DETAIL OF JOINT SEAL & SUPPORT

No Scale

Note: The Seal shall be in one piece (without splices) for the full width of the joint, except that lengths 55 feet and longer may have a factory made splice. Splices, when required, shall be shown on the Shop Drawings and shall be placed near the high ends of the Roadway Separation of the splice during installation shall be cause for rejection of the Seal.



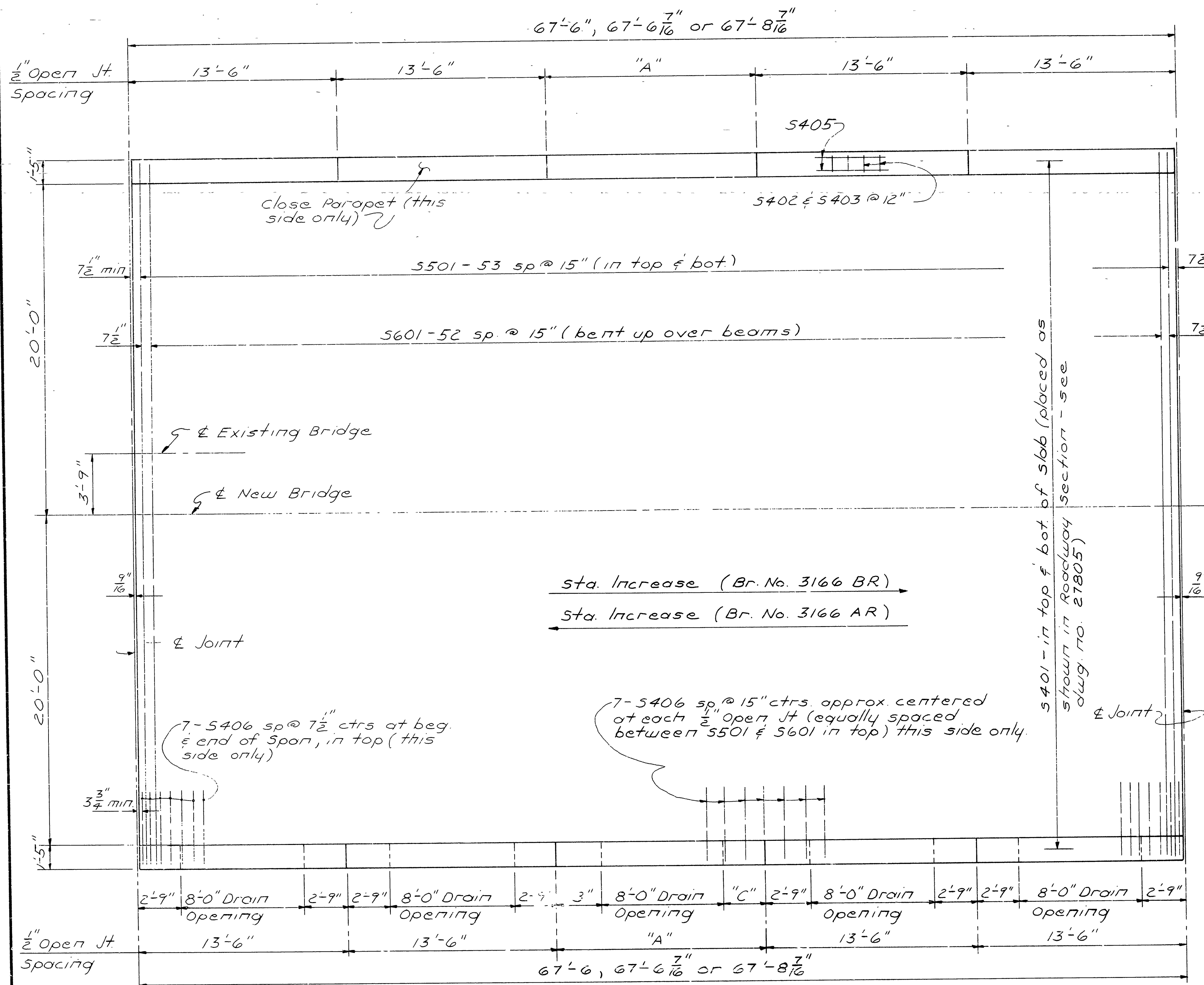
ANCHOR BOLT DETAIL

No Scale

1 1/4" x 16" for Existing Exp. Shoes; 1 1/2" x 16" for Existing Fixed and all New Fixed & Exp. Shoes —

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		100133	62	80

① 3166AR-2BR SPAN DTL'S 27808

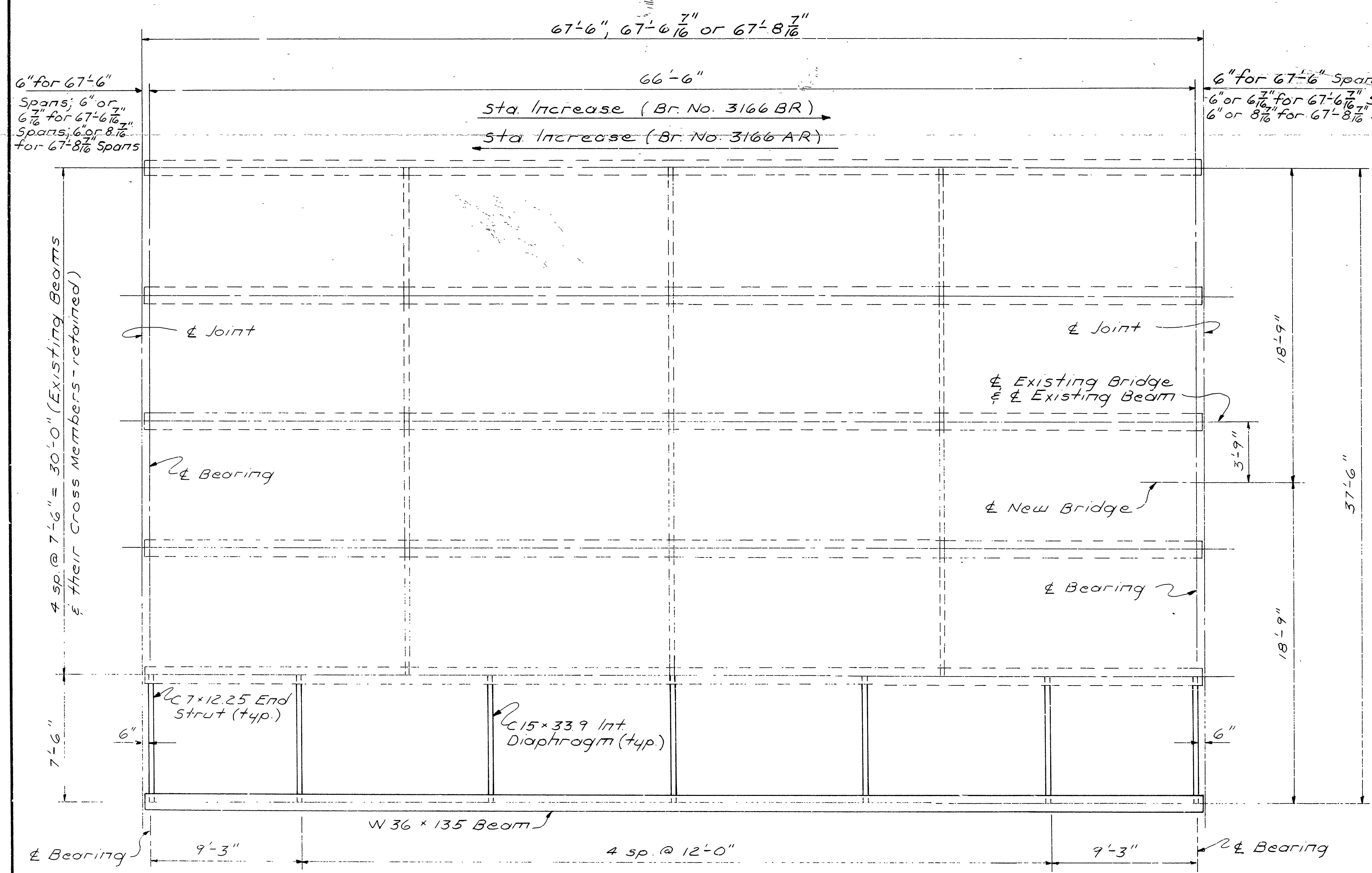


MK.	No. Req'd		
	67-6" Span	67-6 $\frac{7}{8}$ " Span	67-8 $\frac{7}{8}$ " Span
S401	68	68	68
S406	42	42	42
S501	54	54	54
S601	53	53	53

Spørn	"A"	"B"	"C"
$67'-6''$	$13'-6''$	$2'-9''$	$2'-9''$
$67'-6\frac{7}{16}''$	$13'-6\frac{7}{16}''$	$2'-9\frac{1}{4}''$	$2'-9\frac{3}{16}''$
$67'-8\frac{7}{16}''$	$13'-8\frac{7}{16}''$	$2'-10\frac{1}{4}''$	$2'-10\frac{3}{16}''$

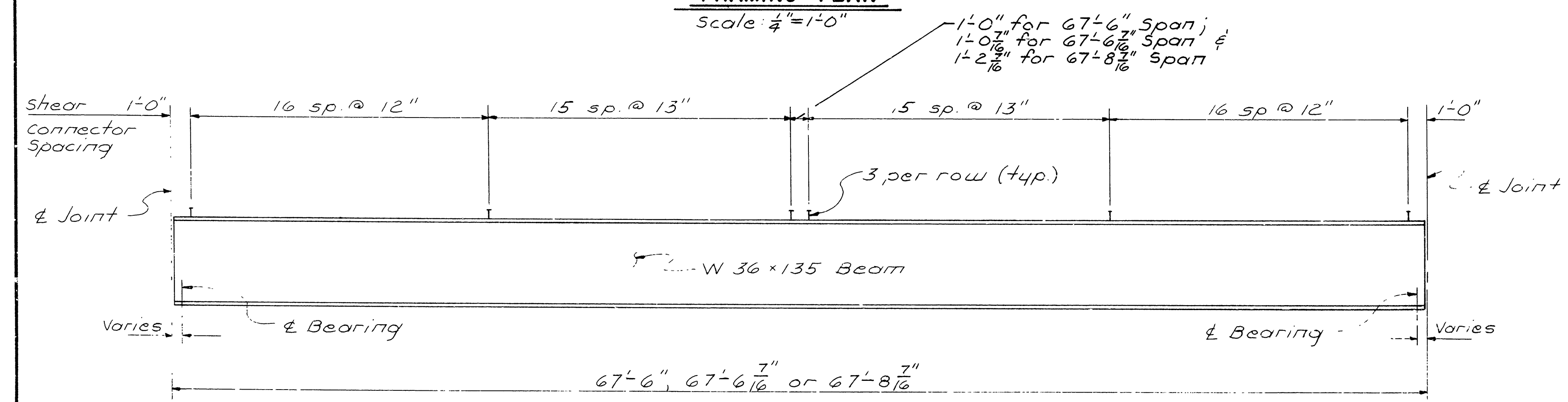
DRAWN BY: J.P.S. DATE: 6-5-85
 CHECKED BY: NH DATE: 9-25-85 SCALE: as noted
 DESIGNED BY: ARW DATE: Feb 85
 BRIDGE NO. 3166AR 8 DRAWING NO. 278
3166 BR

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	100133	63	80	
3166AR & BR SPAN DTL'S 27809								



FRAMING PLAN

Scale: 1/4" = 1'-0"



W-BEAM ELEVATION

No Scale

Note: 8 7/16" from & Jt. to & Bearing is typ. only at End Bents; 6 7/16" from & Jt. to & Bearing is typ. only at Bent Nos. 8 & 9.

**NEW BEAM
DEAD LOAD DEFLECTIONS**

Point of Deflec.	Wt of Beam	Wt of Beam & Slab	Wt of Beam, Slab & Parapet
1/4	3/16"	1/16"	1/8"
1/2	1/4"	1/2"	1 5/8"

Note: Camber Diagrams for New Beam - see dwg. no. 27807.

**EXISTING BEAM
DEAD LOAD DEFLECTIONS**

Point of Deflec.	Wt of Beam	Wt of Beam & Slab	Wt of Beam, Slab & Parapet
1/4	3/16"	7/8"	15/16"
1/2	1/4"	1 1/4"	1 3/8"

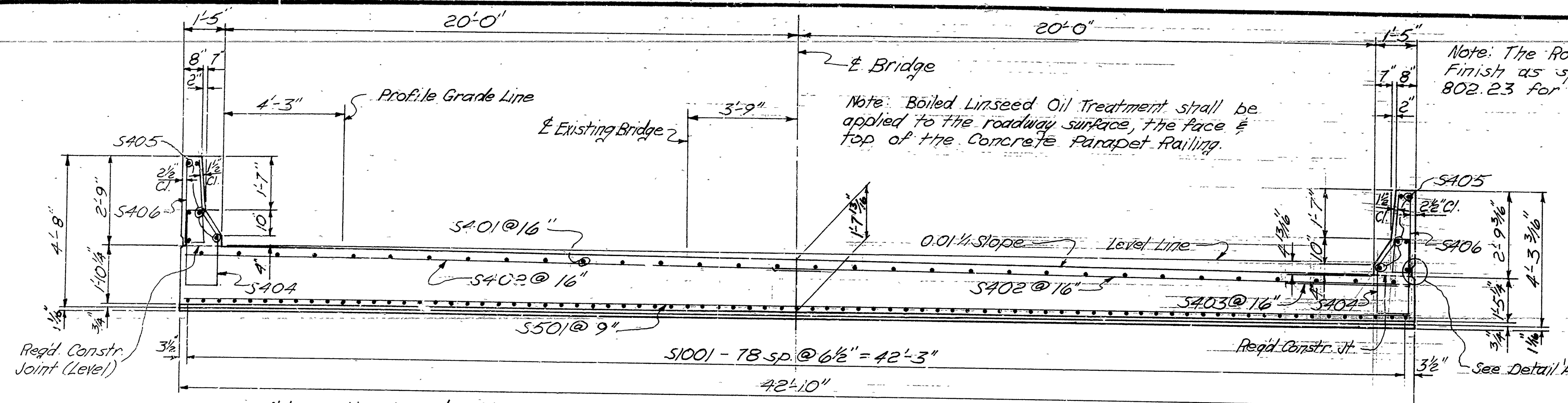
Note: Existing Beams fabricated level, adjust haunch for Dead Load Deflections and Vertical Curve Correction.

Note: All new shoes are Type D1. For location of Fix or Exp Shoes see Layout. For Shoe details see dwg. no. 27807.

SHEET 2 OF 2
DETAILS OF
67'-6", 67'-6 7/16" & 67'-8 7/16"
COMPOSITE W-BEAM SPANS
EAST BLYTHEVILLE
BURLINGTON NORTHERN R.R. OVERPASS
MISSISSIPPI COUNTY
ROUTE 1-55 SEC. 12
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: J.P.S. DATE: 6-5-85
CHECKED BY: ARW DATE: 1-25-85
DESIGNED BY: ARW DATE: Feb-85
SCALE: as noted
BRIDGE NO. 3166 AR & 3166 BR
DRAWING NO. 27809

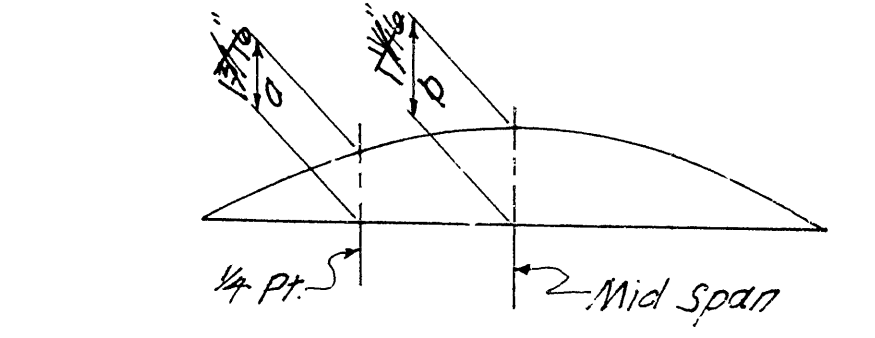
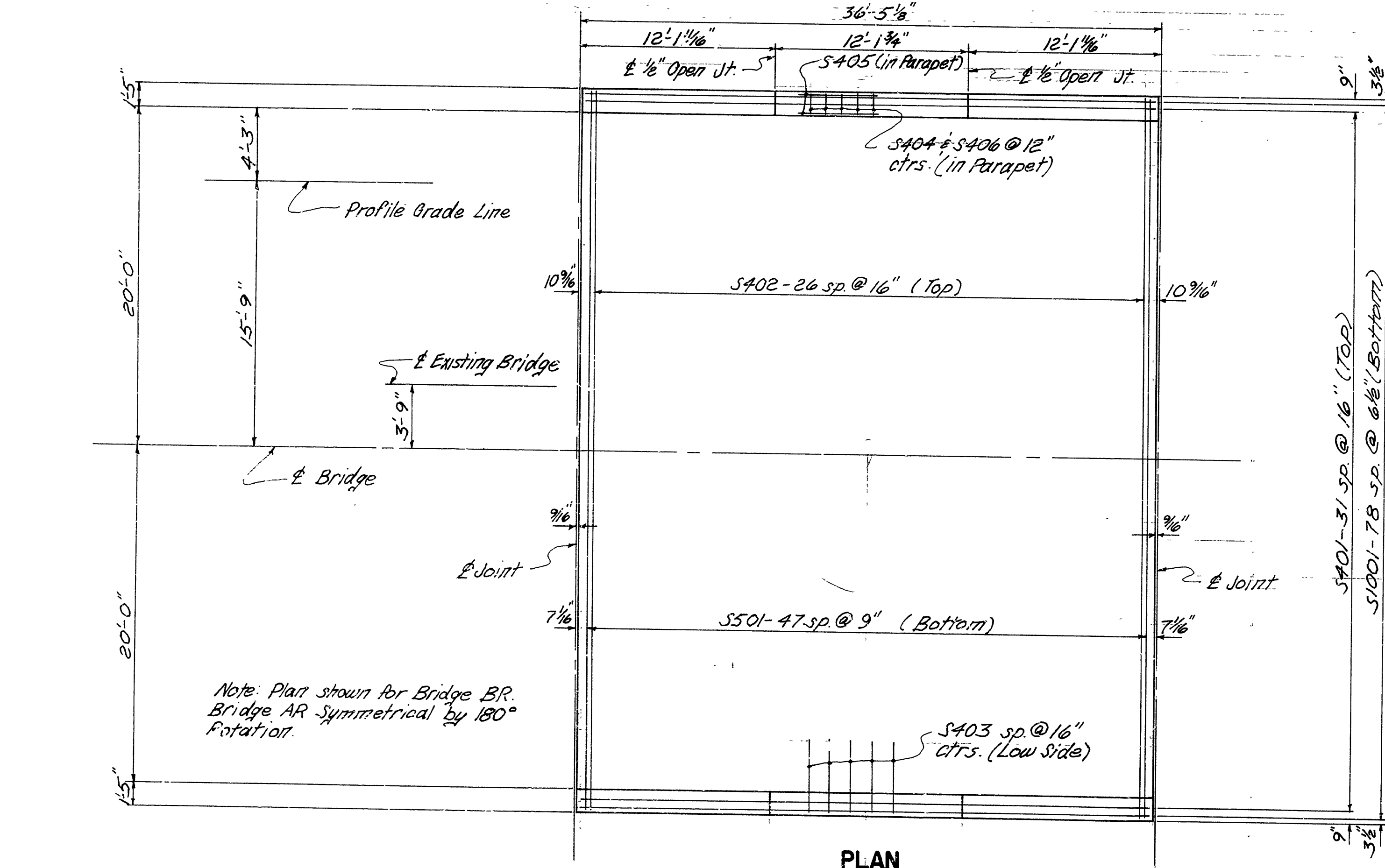
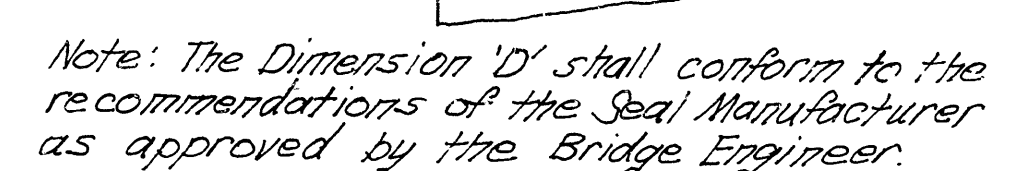
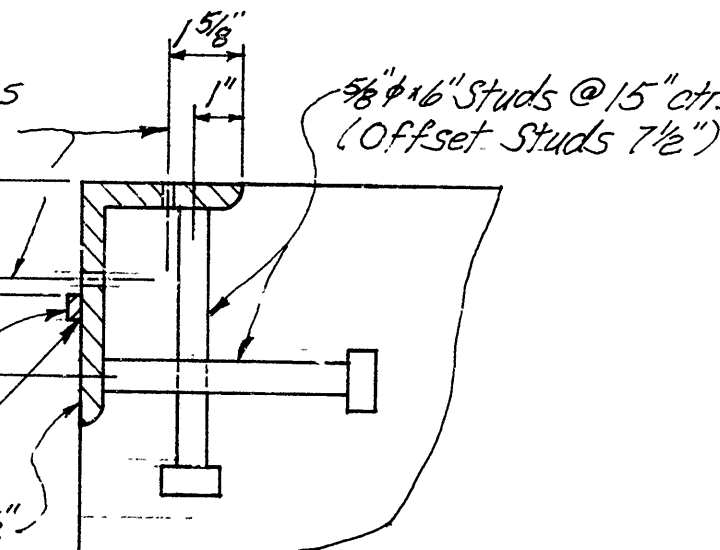
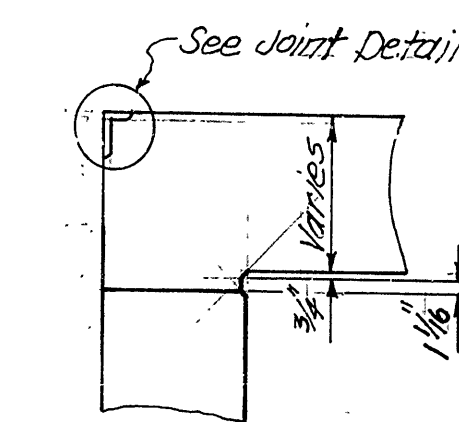
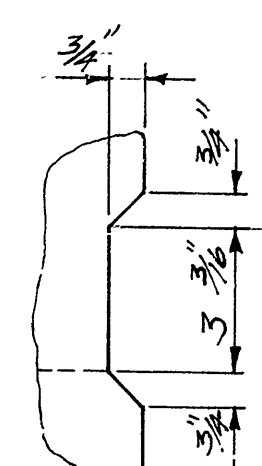
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
4-10-86	5/8-4-86			6	ARK.			
				JOB NO.		100133	64	80

① 3166 ARK FOR C. SLAB DTL'S. 27810



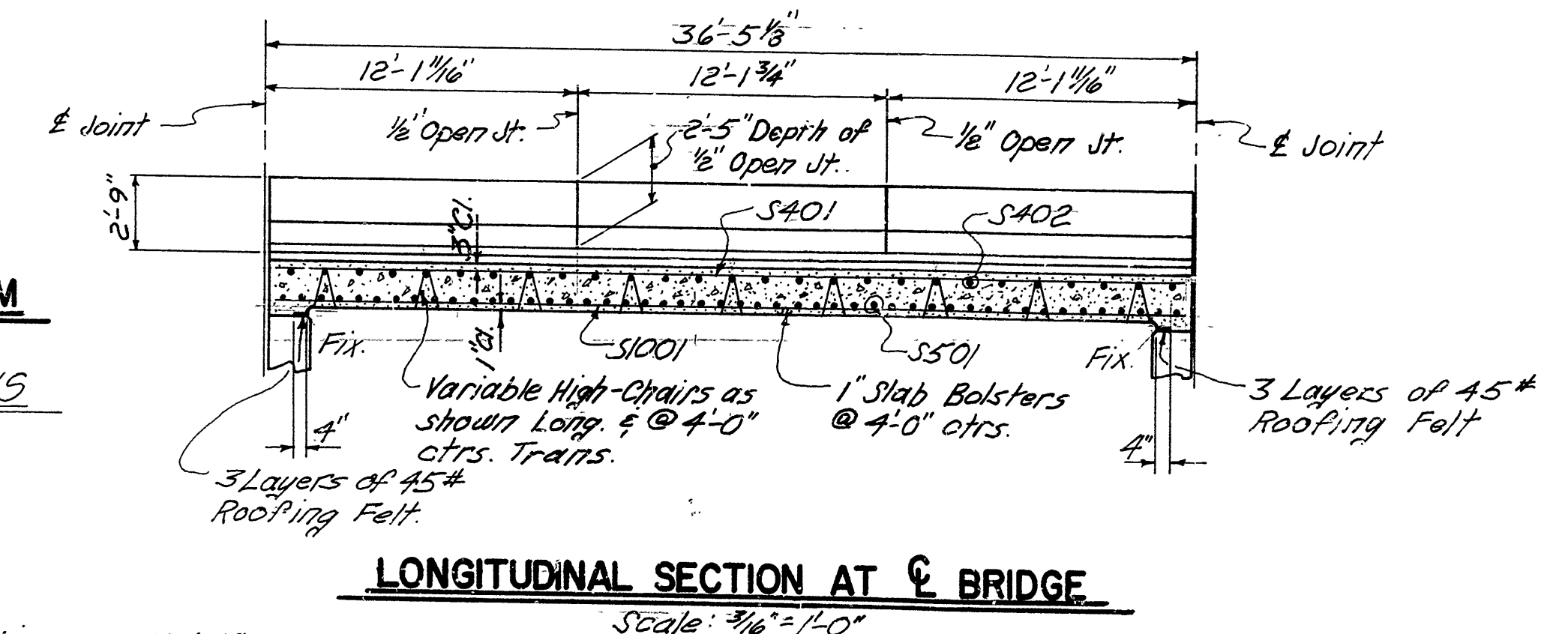
Note: Looking Forward Bridge BR
Looking Back Bridge AR

Note: Bottom of Slab Level
- Transverse to & Bridge



Δ DEAD LOAD DEFLECTIONS

Variable	a	b
Immediate	1"	3/8"
Long Term	1/2"	1/16"
Total Deflection	3/4"	1/8"



BAR LIST - PER SPAN

Mark	No. Reqd.	Length	Pin. Dia.	
* S401	32	36'-0"	Str.	
* S402	54	22'-1"	Str.	
* S403	28	4'-3"	Str.	
S404	72	7'-6"	2"	
S405	36	11'-10"	Str.	
S406	72	5'-6"	2"	
S501	48	42'-6"	Str.	
S1001	79	36'-0"	Str.	

Dimensions are out to out of bars.

* These Bars to be Epoxy Coated - See SP Job 100133
"Epoxy Coated Reinforcing Steel"

GENERAL NOTES

ALL CONCRETE TO BE CLASS S(AE). EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 OR A617, GRADE 60. BAR SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL."

STRUCTURAL STEEL SHALL BE A36 AND SHALL BE MEASURED AND PAID FOR AS "STRUCTURAL STEEL IN BEAM SPANS A572-50."

ROOFING FELT SHALL BE MEASURED AND PAID FOR AS CLASS S(AE) CONCRETE.

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

DESIGN SPECIFICATIONS: AASHTO 1983 WITH CURRENT INTERIMS.

DESIGN LIVE LOADING: HS 20-44 AND MILITARY LOADING

LOAD DISTRIBUTION TO SLAB: DEAD LOAD 254 PSF*; LIVE LOAD -0.164 WHEELS/FT. OF WIDTH PLUS 30% IMPACT.

UNIT STRESSES: COMPRESSIVE STRENGTH OF CLASS S(AE) CONCRETE = 3500 PSI; YIELD STRENGTH OF REINFORCEMENT = 60,000 PSI

LOAD FACTOR USED FOR DESIGN OF SLAB.

*INCLUDES 20 PSF FUTURE WEARING SURFACE.

DETAILS OF
 R. C. SLAB SPAN
 EAST BLYTHEVILLE
 BURLINGTON NORTHERN R. R. OVERPASS
 MISSISSIPPI COUNTY
 ROUTE 1-55 SEC. 12
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: ARW DATE: 9-23-85
 CHECKED BY: GEC DATE: 9-30-85 SCALE: As Noted
 DESIGNED BY: ARW DATE: April 1985
 BRIDGE NO. 3166AR8R DRAWING NO. 27810