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.		061783	1	123
				①		DISTRICT SIX BRIDGE PAINTING (S)		

ARKANSAS DEPARTMENT OF TRANSPORTATION

MAINTENANCE PLANS

DISTRICT SIX BRIDGE PAINTING (S)

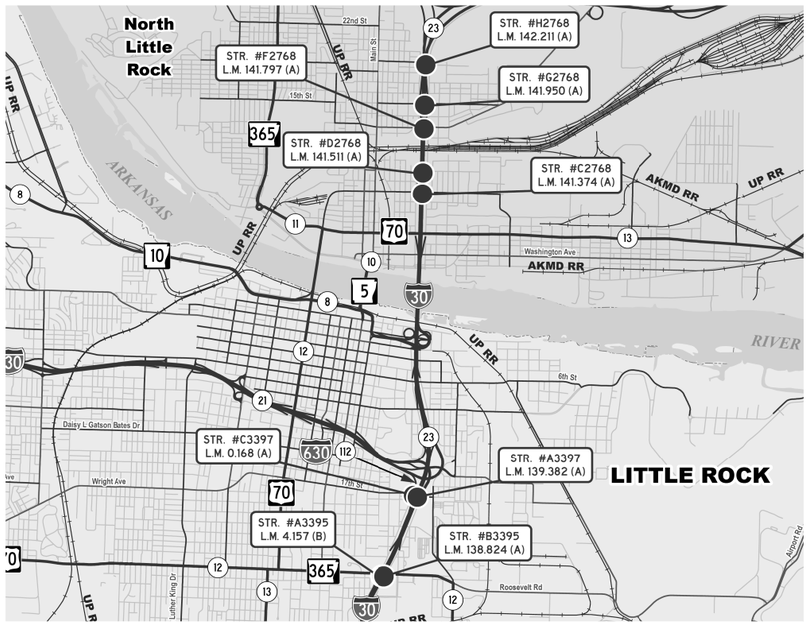
PULASKI COUNTY

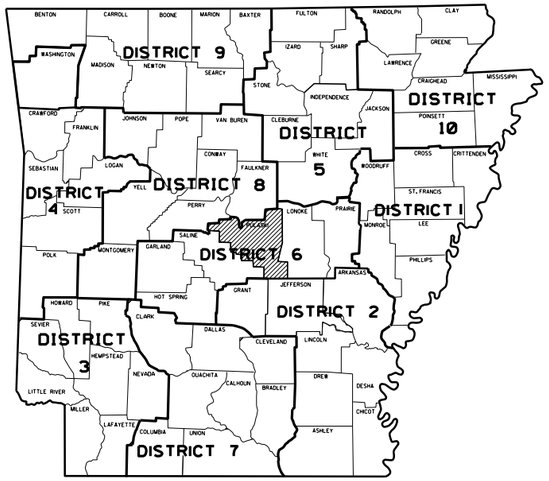
ROUTE I-30 SECTION 23

ROUTE I-630 SECTION 112

JOB 061783

FEDERAL AID PROJ. NHPP-0076(316)





ARKANSAS HIGHWAY DIST. 6

BRIDGE DATA:

1 BRIDGE NO. A3395
I-30 WB, SEC. 23, LM 4.157
125' CONTINUOUS WF BEAM SPANS
WITH 55.4' CLEAR ROADWAY.
LAT. 34.72376 LONG. -92.26715

2 BRIDGE NO. B3395
I-30 EB, SEC. 23, LM 138.824
125' CONTINUOUS WF BEAM SPANS
WITH 55.4' CLEAR ROADWAY.
LAT. 34.72375 LONG. -92.26692

3 BRIDGE NO. A3397
I-30 EB & WB, SEC. 23, LM 139.382
91' WF BEAM SPAN
WITH 139.1' CLEAR ROADWAY.
LAT. 34.73117 LONG. -92.26299

4 BRIDGE NO. C3397
I-630, SEC. 112 RAMP B, LM 0.168
89' WF BEAM SPAN
WITH 35.8' CLEAR ROADWAY.
LAT. 34.73133 LONG. -92.26338

5 BRIDGE NO. C2768
I-30 EB & WB, SEC. 23, LM 141.374
88' WF BEAM SPAN
WITH 116' CLEAR ROADWAY.
LAT. 34.75975 LONG. -92.2622

6 BRIDGE NO. D2768
I-30 EB & WB, SEC. 23, LM 141.511
88' WF BEAM SPAN
WITH 113.8' CLEAR ROADWAY.
LAT. 35.52787 LONG. -94.03803

7 BRIDGE NO. F2768
I-30 EB & WB, SEC. 23, LM 141.797
88' WF BEAM SPAN
WITH 113.8' CLEAR ROADWAY.
LAT. 34.76588 LONG. -92.26195

8 BRIDGE NO. G2768
I-30 EB & WB, SEC. 23, LM 141.950
88' WF BEAM SPAN
WITH 116.1' CLEAR ROADWAY.
LAT. 34.768089 LONG. -92.261871

9 BRIDGE NO. H2768
I-30 EB & WB, SEC. 23, LM 142.211
73' WF BEAM SPAN
WITH 119.8' CLEAR ROADWAY.
LAT. 34.77188 LONG. -92.26172

STATE OF ARKANSAS
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No. 13856
DERIC M. WYATT

3-9-2023

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.		061783	2	123
				(1) IND. OF SHTS., STD. DWGS., & GOV. SPECS.				

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS, STANDARD DRAWINGS, AND GOVERNING SPECIFICATIONS
3	MAINTENANCE OF TRAFFIC DETAILS
4	QUANTITIES AND GENERAL NOTES
5	QUANTITIES AND GENERAL NOTES
6	SUMMARY OF QUANTITIES AND REVISIONS
7	BRIDGE PICTURES
8	BRIDGE PICTURES
9	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
10	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
11	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
12	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
13	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
14	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
15	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
16	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
17	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
18	BRIDGE LOCATIONS AND SCOPE - FOR INFORMATION ONLY
19-30	BRIDGE NO. A3395 & B3395 - FOR INFORMATION ONLY
31-44	BRIDGE NO. A3397 - FOR INFORMATION ONLY
45-53	BRIDGE NO. C3397 - FOR INFORMATION ONLY
54-71	BRIDGE NO. C2768 - FOR INFORMATION ONLY
72-87	BRIDGE NO. D2768 - FOR INFORMATION ONLY
88-101	BRIDGE NO. F2768 - FOR INFORMATION ONLY
102-111	BRIDGE NO. G2768 - FOR INFORMATION ONLY
112-123	BRIDGE NO. H2768 - FOR INFORMATION ONLY

ROADWAY STANDARD DRAWINGS

DRWG. NO.	TITLE	DATE
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273_	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273_	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273_	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273_	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273_	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273_	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273_	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
105-4	MAINTENANCE DURING CONSTRUCTION
107-2	RESTRAINING CONDITIONS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
306-1	QUALITY CONTROL AND ACCEPTANCE
603-1	LANE CLOSURE NOTIFICATION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
JOB 061783_	BIDDING REQUIREMENTS AND CONDITIONS
JOB 061783_	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 061783_	CARGO PREFERENCE ACT REQUIREMENTS
JOB 061783_	CONTAINMENT SYSTEM
JOB 061783_	CONTRACTOR CERTIFICATION
JOB 061783_	COORDINATION OF WORK
JOB 061783_	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 061783_	ESTABLISHING CONTRACT TIME - WORKING DAY CONTRACT
JOB 061783_	INSPECTOR'S PERSONAL PROTECTION CLOTHING
JOB 061783_	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 061783_	MANDATORY ELECTRONIC CONTRACT
JOB 061783_	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 061783_	MAINTENANCE OF TRAFFIC
JOB 061783_	PAINT CONTRACTOR LABEL
JOB 061783_	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 061783_	TEXTURED COATING FINISH

STATE OF ARKANSAS
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INDEX OF SHEETS, STANDARD DRAWINGS, AND GOVERNING SPECIFICATIONS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	061783	3	123
		MAINTENANCE OF TRAFFIC DETAILS				

INTERSTATE 30
- (1) MI-1 (36" X 36")
- WEST (1) M3-4 (36" X 18")
- (1) M6-2 (30" X 21")
- DETOUR (1) M4-8 (30" X 15")

INTERSTATE 30
- (2) MI-1 (36" X 36")
- WEST (2) M3-4 (36" X 18")
- (2) M6-1 (30" X 21")
- DETOUR (2) M4-8 (30" X 15")

INTERSTATE 30
- (4) MI-1 (36" X 36")
- WEST (4) M3-4 (36" X 18")
- (4) M6-3 (30" X 21")
- DETOUR (4) M4-8 (30" X 15")

ROAD CLOSED (1) RII-2 (48" X 30")

8' BARR. TYP. III LT.
8' BARR. TYP. III LT.

I-30 WB ENTRANCE RAMP DETOUR
MAINTENANCE OF TRAFFIC DETAILS

dn40219 2/24/2023
R061783.DGN

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.		061783	4	123
				(1)		QUANTITIES & GENERAL NOTES		

CLEANING AND PAINTING EXISTING STRUCTURAL STEEL (TYPE II)

DESCRIPTION	QUANTITY	UNIT	CHIP COLOR
A3395	88.1	TON	30070
B3395	88.1	TON	30070
A3397	264.6	TON	30070
C3397	48.0	TON	30070
C2768	201.6	TON	26270
D2768	205.9	TON	26270
F2768	207.7	TON	26270
G2768	200.4	TON	26270
H2768	119.6	TON	26270
TOTAL:	1424.0	TON	

**DISPOSAL OF HAZARDOUS WASTE

DESCRIPTION	QUANTITY	UNIT
BRIDGE NO. A3395	1.00	LUMP SUM
BRIDGE NO. B3395	1.00	LUMP SUM
BRIDGE NO. A3397	1.00	LUMP SUM
BRIDGE NO. C3397	1.00	LUMP SUM
BRIDGE NO. C2768	1.00	LUMP SUM
BRIDGE NO. D2768	1.00	LUMP SUM
BRIDGE NO. F2768	1.00	LUMP SUM
BRIDGE NO. G2768	1.00	LUMP SUM
BRIDGE NO. H2768	1.00	LUMP SUM

** POTENTIAL HAZARDOUS WASTE IN THE FORM OF LEAD PAINT DEBRIS WILL BE REMOVED FROM THIS STRUCTURE AND SENT TO AN APPROPRIATE TREATMENT FACILITY AS PER CODE OF FEDERAL REGULATIONS 40 CFR PART 260.

GENERAL NOTES

1. PAINT SYSTEM: SEE SECTION 807 AND 820 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
   PRIME COAT: ONE COAT OF INORGANIC ZINC, 3 MIL DFT MINIMUM UNLESS NOTED.
   INTERMEDIATE EPOXY TIE COAT: 2 MIL DFT MINIMUM
   FINISH COAT: ONE COAT URETHANE, 3 MIL DFT MINIMUM, GRAY - FEDERAL STANDARD 595B
   LITTLE ROCK: COLOR CHIP 30070, NORTH LITTLE ROCK: COLOR CHIP 26270
   MAXIMUM DFT FOR EACH COAT AS RECOMMENDED BY COATING MANUFACTURER.
2. CLASS 3 TEXTURED COATING FINISH: SEE SECTION 802 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
   LITTLE ROCK: FEDERAL STANDARD 595B, COLOR CHIP NO. 33522 AS SPECIFIED IN SPECIAL PROVISION "TEXTURED COATING FINISH"
   NORTH LITTLE ROCK: COORDINATE COLOR CHIP WITH CITY OF NORTH LITTLE ROCK AS SPECIFIED IN SPECIAL PROVISION "TEXTURED COATING FINISH"
3. ALL SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF DUST OR OTHER OBJECTIONABLE MATTER.
4. CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH THE LOCATION OF ALL UTILITIES ON THE BRIDGES BEFORE BIDDING.
5. UTILITIES ON BRIDGES SHOULD BE PROTECTED DURING THE CLEANING AND PAINTING OPERATION.
6. CONTAINMENT REQUIRED :

BRIDGE NUMBER	CLASS OF CONTAINMENT	MIGRATORY BIRDS
A3395	3	NO
B3395	3	NO
A3397	3	NO
C3397	3	NO
C2768	3	NO
D2768	3	NO
F2768	3	NO
G2768	3	NO
H2768	3	NO

MOBILIZATION

DESCRIPTION	QUANTITY	UNIT
ENTIRE PROJECT	1.00	LUMP SUM
TOTAL:	1.00	LUMP SUM

***MAINTENANCE OF TRAFFIC

DESCRIPTION	QUANTITY	UNIT
ENTIRE PROJECT	1.00	LUMP SUM
TOTAL:	1.00	LUMP SUM

*** ALL TRAFFIC CONTROL DEVICES AND/OR PAVEMENT MARKINGS WILL BE PLACED IF AND WHERE DIRECTED BY THE ENGINEER. ALL ITEMS NECESSARY FOR TRAFFIC CONTROL IS SUBSIDIARY TO THE ITEM OF "MAINTENANCE OF TRAFFIC".

STATE OF ARKANSAS
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DERIC M. WYATT

3-9-2023

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.		061783	5	123

1 QUANTITIES & GENERAL NOTES

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		BARRICADES (TYPE III)
						LEFT
				NO.	SQ. FT.	LIN. FT.
R11-2	ROAD CLOSED	48"x30"	1	1	10.0	
M1-1	INTERSTATE 30	36"x36"	7	7	63.0	
M3-4	WEST	36"x18"	7	7	31.5	
M4-8	DETOUR	30"x15"	7	7	21.9	
M6-1	ARROW	30"x21"	2	2	8.8	
M6-2	ARROW	30"x21"	1	1	4.4	
M6-3	ARROW	30"x21"	4	4	17.5	
	TYPE III BARRICADE-LT. (8')		2			16
TOTALS:					**157.1**	**16**

TEXTURED COATING

DESCRIPTION	QUANTITY	UNIT
BRIDGE NO. A3395	1906	SQUARE YARD
BRIDGE NO. B3395	1906	SQUARE YARD
BRIDGE NO. A3397	1524	SQUARE YARD
BRIDGE NO. C3397	952	SQUARE YARD
BRIDGE NO. C2768	696	SQUARE YARD
BRIDGE NO. D2768	751	SQUARE YARD
BRIDGE NO. F2768	771	SQUARE YARD
BRIDGE NO. G2768	676	SQUARE YARD
BRIDGE NO. H2768	770	SQUARE YARD

NOTE: QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STD. SPECS.

STATE OF ARKANSAS
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3-9-2023

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
03-14-23				6	ARK.			
				JOB NO.		061783	6	123
				①	SUMMARY OF QUANTITIES & REVISIONS			

SUMMARY OF QUANTITIES

LOCATION			BRIDGE DATA		ITEM NO.	SP & 820	SP	601	SP, SS, & 603	SS & 604	SS & 604	820
BRIDGE NUMBER	RT/SEC/ LOG MILE	COUNTY	ROADWAY WIDTH (FT)	BRIDGE LENGTH (FT)	BRIDGE NAME / PAY ITEM / UNIT	CLEANING AND PAINTING EXISTING STRUCTURAL STEEL (TYPE II)	TEXTURED COATING	MOBILIZATION	MAINTENANCE OF TRAFFIC	SIGNS	BARICADES	DISPOSAL OF HAZARDOUS WASTE (SITE NO.)
					UNIT	TON	SQUARE YARDS	LUMP SUM	LUMP SUM	SQUARE FEET	LINEAR FEET	LUMP SUM
A3395	30/23/4.157	Pulaski	55	125	I-30 WB over E. Roosevelt Rd.	88.1	1906					1.00 (SITE NO. 1)
B3395	30/23/138.824	Pulaski	55	125	I-30 EB over E. Roosevelt Rd.	88.1	1906					1.00 (SITE NO. 2)
A3397	30/23/139.382	Pulaski	139	91	I-30 EB-WB over East 17th Street	264.6	1524					1.00 (SITE NO. 3)
C3397	630/112/0.168	Pulaski	36	89	I-30 WB On-Ramp over E. 17th St.	48.0	952					1.00 (SITE NO. 4)
C2768	30/23/141.374	Pulaski	116	88	I-30 EB-WB over East 7th Street	201.6	696			157.1	16	1.00 (SITE NO. 5)
D2768	30/23/141.511	Pulaski	114	88	I-30 EB-WB over East 9th Street	205.9	751					1.00 (SITE NO. 6)
F2768	30/23/141.797	Pulaski	114	88	I-30 EB-WB over East 13th Street	207.7	771					1.00 (SITE NO. 7)
G2768	30/23/141.950	Pulaski	116	88	I-30 EB-WB over East 15th Street	200.4	676					1.00 (SITE NO. 8)
H2768	30/23/142.211	Pulaski	120	73	I-30 EB-WB over East 19th Street	119.6	770					1.00 (SITE NO. 9)
					TOTAL JOB NO. 061783	1424	9952	1.00	1.00	157.1	16	⚠1 ~~1.00~~

NOTE: TEXTURED COATING QUANTITIES OF RETAINING WALLS ARE INCLUDED WITH THOSE OF NEAREST BRIDGE

SEE "FOR INFORMATION ONLY" MAPS IN PLAN SET

NOTE: TEXTURED COATING QUANTITY ESTIMATED SEE SECTION 104.03 OF THE STD. SPECS.

REVISIONS

DATE	REVISION	SHEET NO.
3/14/2023	REVISED TOTAL DISPOSAL OF HAZARDOUS WASTE	6

⚠1 REVISED TOTAL DISPOSAL OF HAZARDOUS WASTE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13856
DERIC M. WYATT

3-14-2023

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.		061783	7	123

1 BRIDGE PICTURES

SITE NO. 1 - BRIDGE NO. A3395

SITE NO. 2 - BRIDGE NO. B3395

SITE NO. 3 - BRIDGE NO. A3397

SITE NO. 4 - BRIDGE NO. C3397

SITE NO. 5 - BRIDGE NO. C2768

SITE NO. 6 - BRIDGE NO. D2768

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.		061783	8	123

1 BRIDGE PICTURES

SITE NO. 7 - BRIDGE NO. F2768

SITE NO. 8 - BRIDGE NO. G2768

SITE NO. 9 - BRIDGE NO. H2768

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.		061783	9	123

(1) BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

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.		061783	10	123

1 BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

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.		061783	11	123

1 BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

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.		061783	12	123

(1) BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

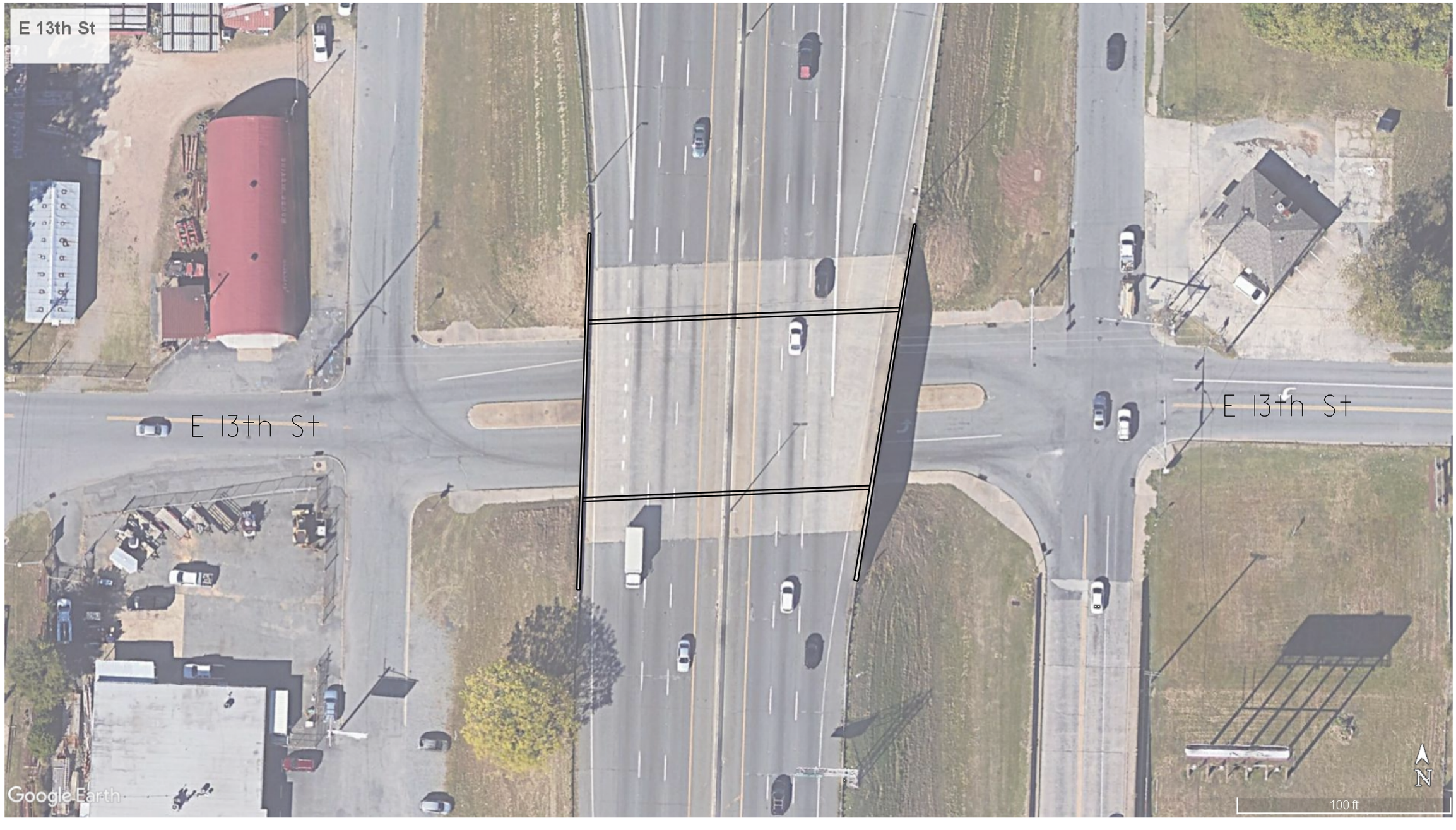
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	13	123

1 BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

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.		061783	14	123

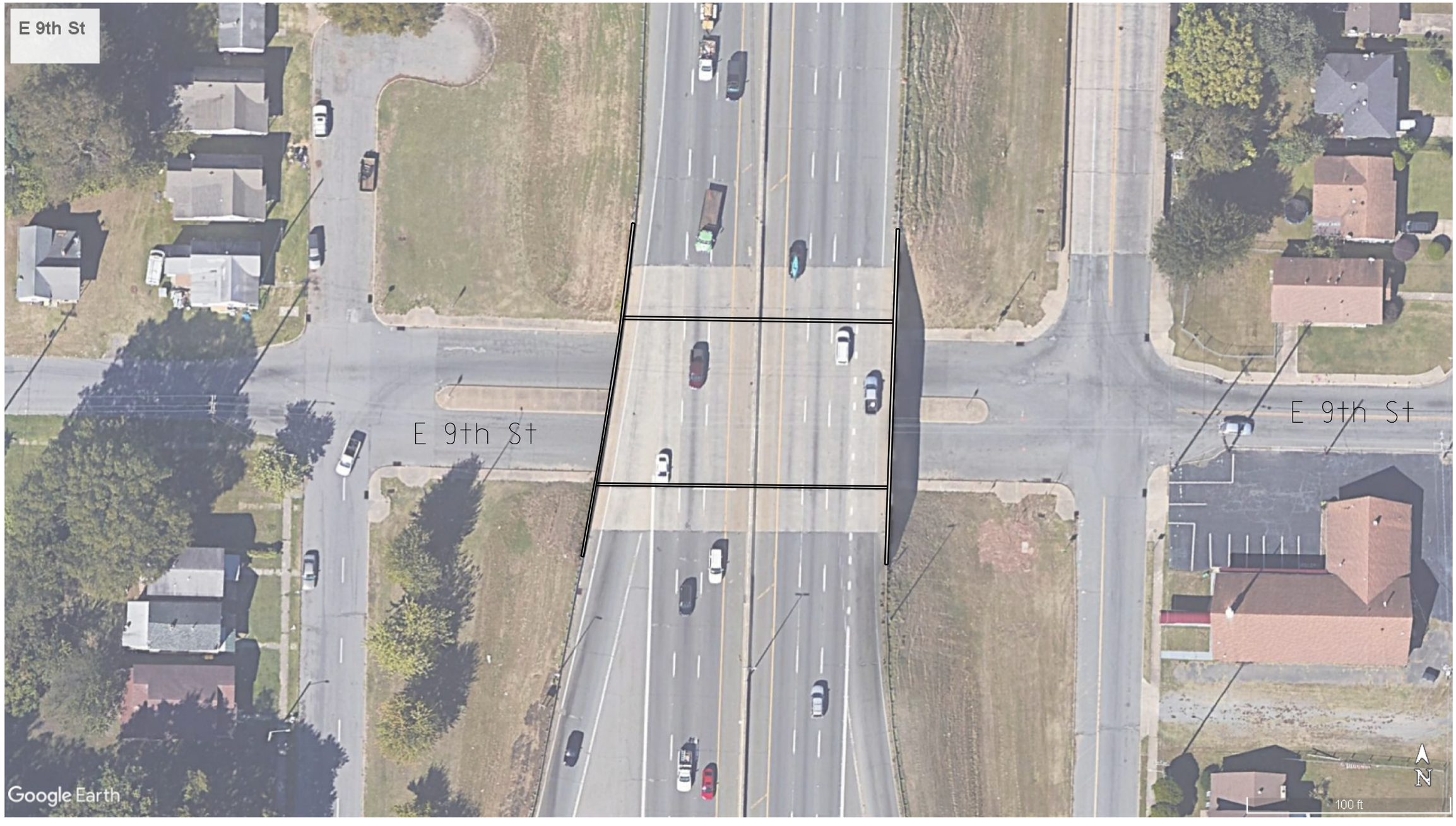
1 BRIDGE LOCATIONS AND SCOPE



FOR INFORMATION ONLY

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.		061783	15	123

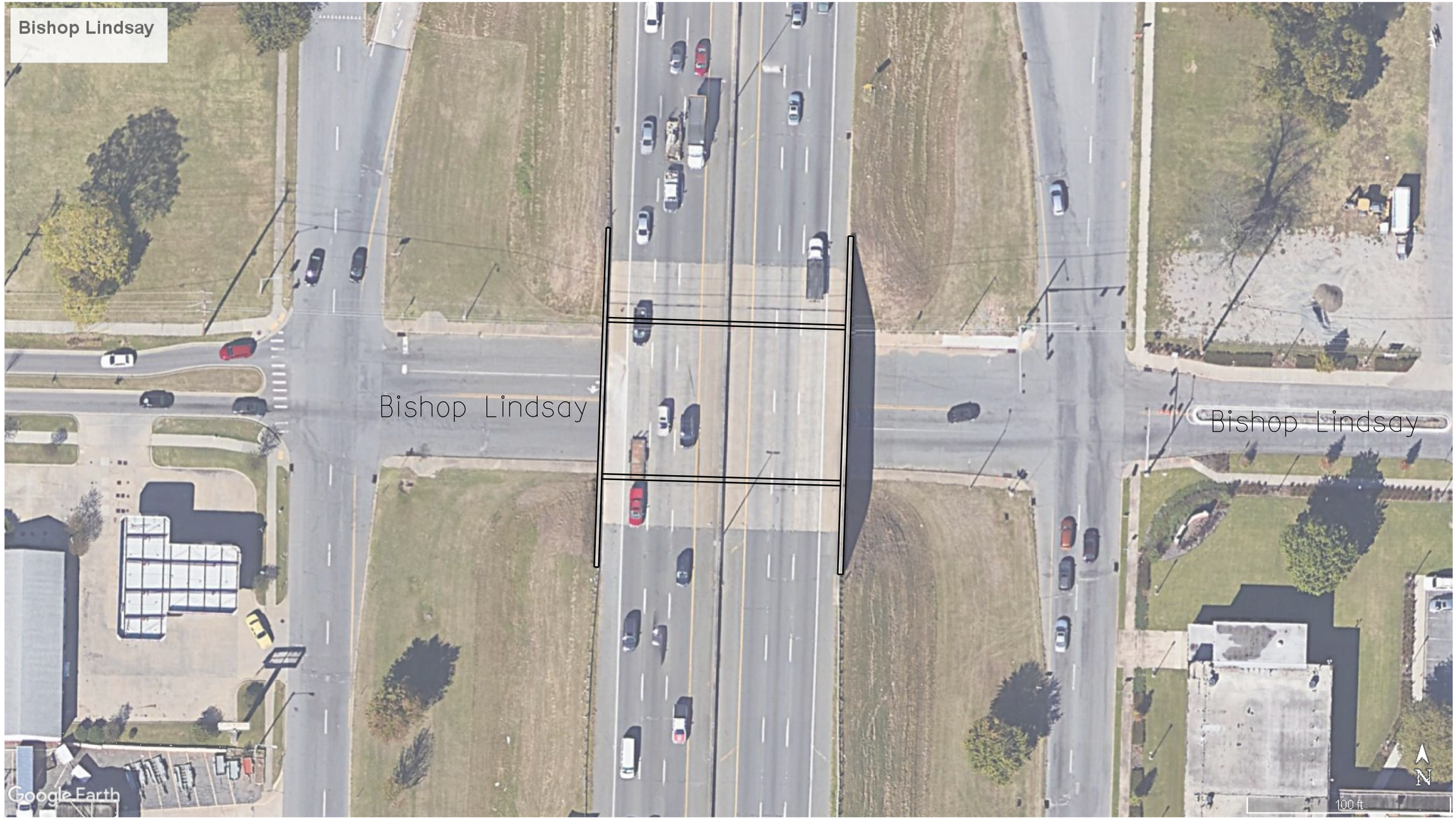
(1) BRIDGE LOCATIONS AND SCOPE



FOR INFORMATION ONLY

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.		061783	16	123

(1) BRIDGE LOCATIONS AND SCOPE



FOR INFORMATION ONLY

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.		061783	17	123

(1) BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

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.		061783	18	123

(1) BRIDGE LOCATIONS AND SCOPE

FOR INFORMATION ONLY

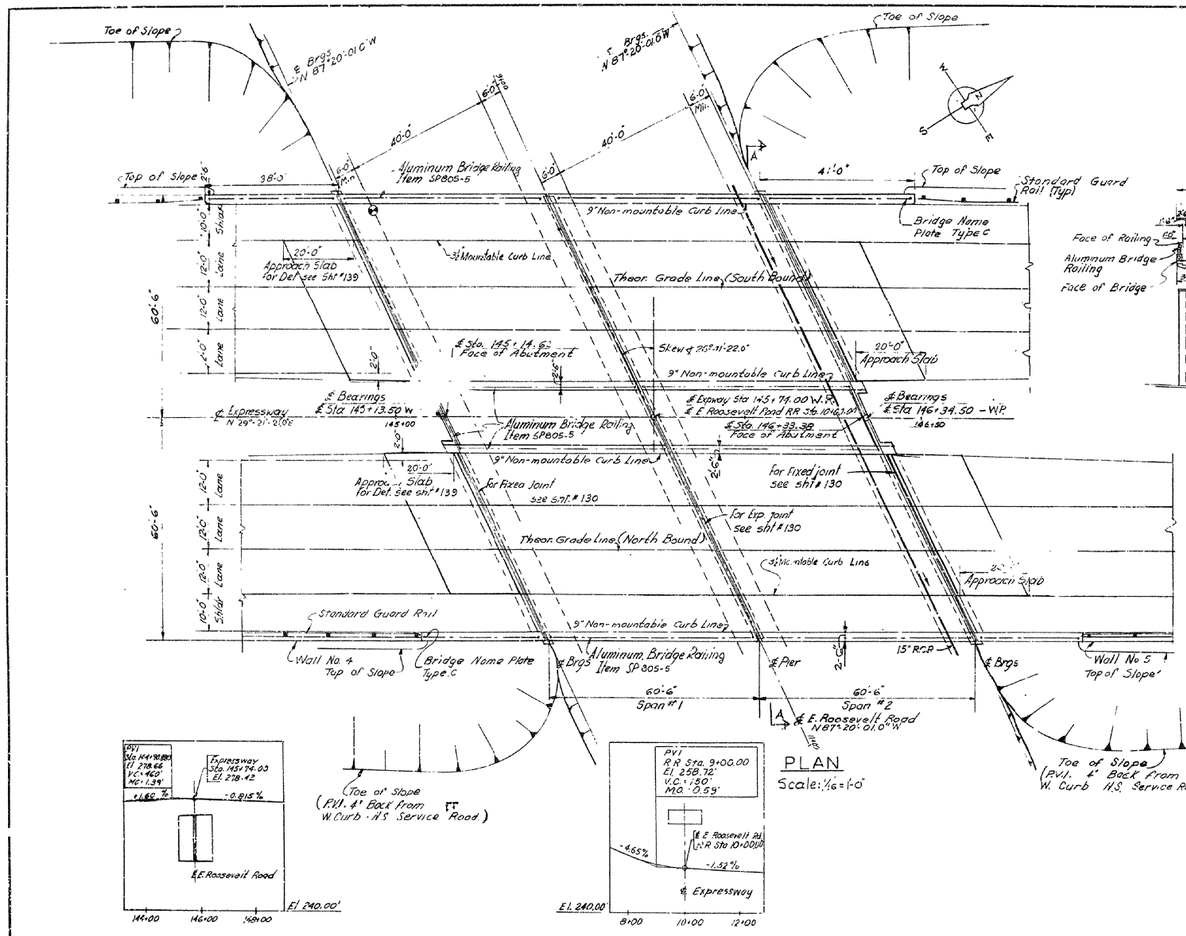
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	19	123

(1) SITE NO. 1&2 - FOR INFORMATION ONLY

99

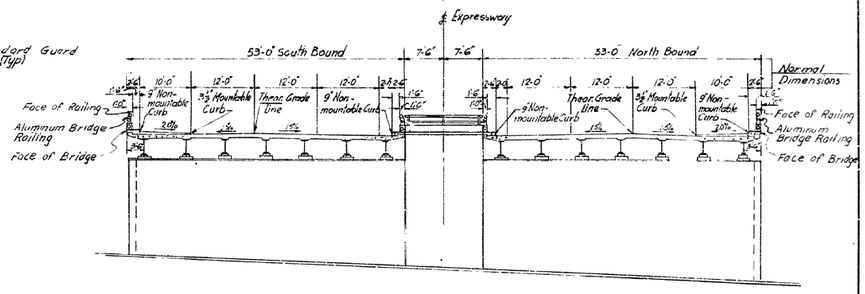
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		101	194
JOB NO. 6594					



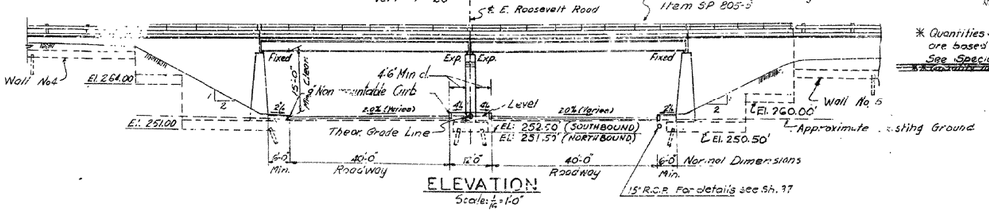
PLAN
Scale: 1/16"=1'-0"

EXPRESSWAY PROFILE
Scale: Horiz. 1"=200'
Vert. 1"=20'

E. ROOSEVELT RD. PROFILE
Scale: Horiz. 1"=200'
Vert. 1"=20'



SECTION A-A
Scale: 1/8"=1'-0"



ELEVATION
Scale: 1/16"=1'-0"

CODE TYPE X231

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	S ABUT.	SPAN # 1	PIERS	SPAN # 2	N ABUT	TOTAL
103	Dry Excavation for Structures	C.Y.	455	—	100	—	575	1,130
SP 125-1	Special Composition of Earthwork	C.Y.	7,850	—	100	—	7,000	14,956
SP 127-1	Bagged Crush'd Stone	C.Y.	130	—	—	—	136	266
SP & 802	Class A Concrete for Bridges	C.Y.	735	—	130	—	735	1,600
SP & 802	Class S Concrete for Bridges	C.Y.	4	233	—	233	4	474
SP & 803	Reinforcing Steel	L.B.	55,800	33,990	22,300	33,990	55,600	201,740
SP 803-6	Shear Connectors	L.B.	—	2,100	—	2,100	—	4,200
SP 805-5	Aluminum Bridge Railing	L.F.	95	246	—	246	90	677
SP & 807	Structural Steel in Beam Spans	L.B.	190	152,570	3,200	152,570	190	308,720
SP 807-7	Steel Bearing Piling (12 BP 53)	L.F.	1240	—	905	—	1160	3,305
SP 807-7	Steel Bearing Piling (14 BP 73)	L.F.	1825	—	—	—	1795	3,620
SP 860-2	Damp Proofing	S.F.	3525	—	—	—	3650	7,175
SP 911-2	6" Dia. Bridge Underdrain	L.F.	200	—	—	—	200	400
929	Bridge Name Plate-Type C	Ea.	1	—	—	—	1	2

Note: All quantities listed under compaction and embankment are shelled quantities.

* Quantities shown for Shear Connectors are based on Spiral Bar Shear Connectors. See Special Provisions.

REFERENCES
For Lighting Work - Sheet L-4.11
For General Notes - Sheet 4
For Deck Joint Details - Sheet 130.
For Architectural Details - Sheet 132.
For Bridge Railing Details - Sheet 133.
For Embankment Const. - Sheet 136.
For Excavation Details - Sheet 137.
For Framing Plan - Sheet 102
For Boring Logs - Sheet 36.
For Bridge Name Plates - Sheet 145.
For Approach Slabs - Sheet 139.
For Walls No 4 & 5 - Sheet 95.
For Pile Splice Sheet No

In Charge of R. Cuesta
Made By P.M.
Traced By P.M.
Checked By C.B.

Revising AH.D 5-16-60

Revised	6-15-59

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. ROOSEVELT ROAD — LITTLE ROCK
STRUCTURE NO. 5
GENERAL PLAN & SECTIONS

DWG. NO.	SCALE	DATE	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
1218-C-007	As Noted	1-5-59	

BRIDGE NO. 3395A&B DRAWING NO. 11045

FOR INFORMATION ONLY

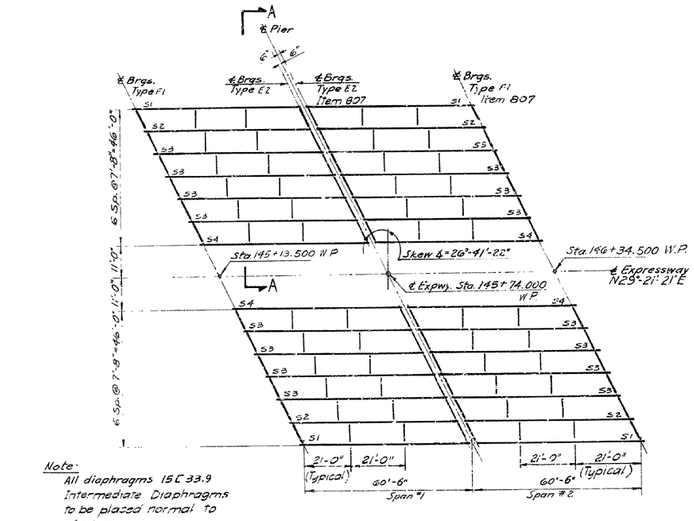
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	20	123

(1) SITE NO. 1&2 - FOR INFORMATION ONLY

166

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		102	194
JOB NO. 6594					

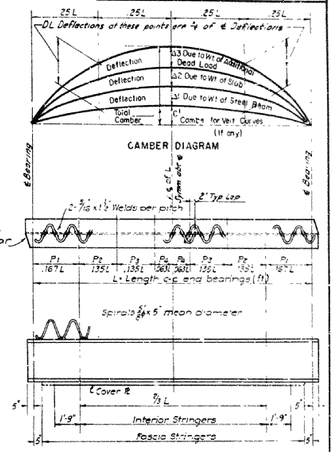


Note:
All diaphragms 15C 33.9 Intermediate Diaphragms to be placed normal to stringers.

FRAMING PLAN
Scale: 1" = 20'-0"

STRINGER SCHEDULE

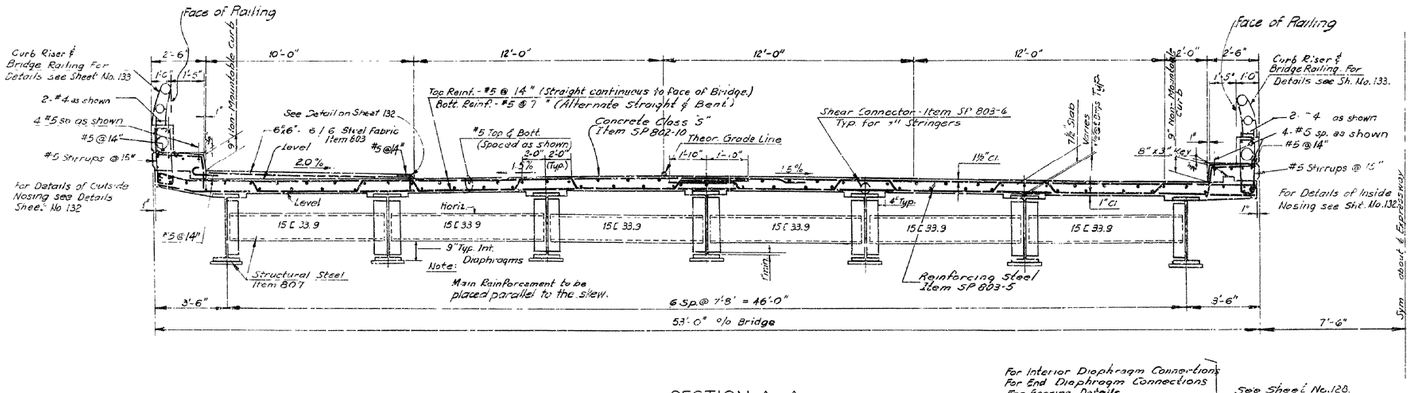
Member	Size	Cov. PL	P1	P2	P3	P4	Δ1	Δ2	Δ3	Total Dead Load Defl.	C.I	Total Camber Center
S1	33WF130	16"x 1/2	5E'	7'	6E'	10E'	.18	.90	.25	1.39"	1/4"	1. 5/8"
S2	33WF130	16"x 1/2	5'	6E'	7E'	9E'	.18	.80	.20	1.18"	1/4"	1. 7/16"
S3	33WF130	16"x 1/2	5'	6E'	7E'	9E'	.18	.80	—	.98"	1/4"	1. 1/4"
S4	33WF130	16"x 5/8	4E'	8E'	10"	12"	.18	.30	.26	1.33"	1/4"	1. 5/16"



Ends of Top Flange to be cut as required to clear joint

PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS
Not to Scale



SECTION A-A
Scale: ½"=1'-0"

Note:
All Horizontal dimensions are normal to ℄ Expressway

References:
For General Notes, see sheet 4.
For General Plan, see sheet 101.
For Deck Joints at Piers, Abutments, see sheet 130.
For Dead and L.L. Distribution factors, see sheet 112.
For Lighting Work see sheet L-4-11

For Interior Diaphragm Connections
For End Diaphragm Connections
For Bearing Details
For Shear Connectors
See Sheet No. 120.

In Charge Of R. Cuccioli
Made By L.P.
Traced By S.P.
Checked By H.G.

Rev. Railing A.H.D. 5-12-60

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. ROOSEVELT RD.-LITTLE ROCK
STRUCTURE NO. 5
FRAMING PLAN

Revised	6-15-59	DWG. NO. 121-8 5003	SCALE As Noted	DATE 1-5-59	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS

BRIDGE NO. 3395A&B DRAWING NO. 11046

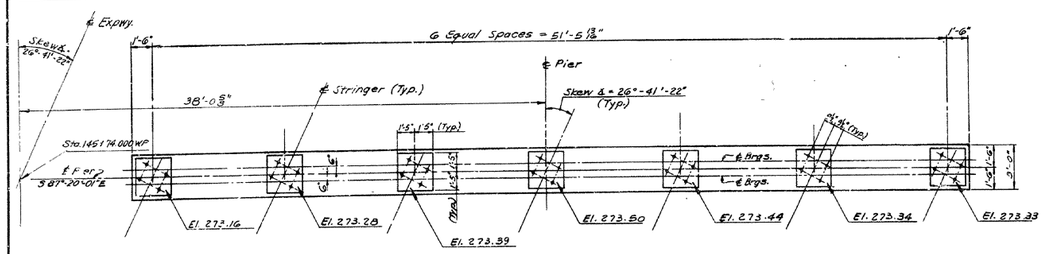
FOR INFORMATION ONLY

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.		061783	21	123

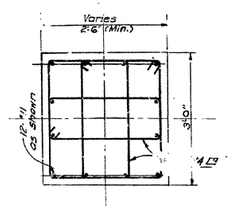
(1) SITE NO. 1&2 - FOR INFORMATION ONLY

101

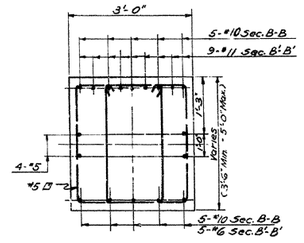
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		103	194
JOB NO. 6594					



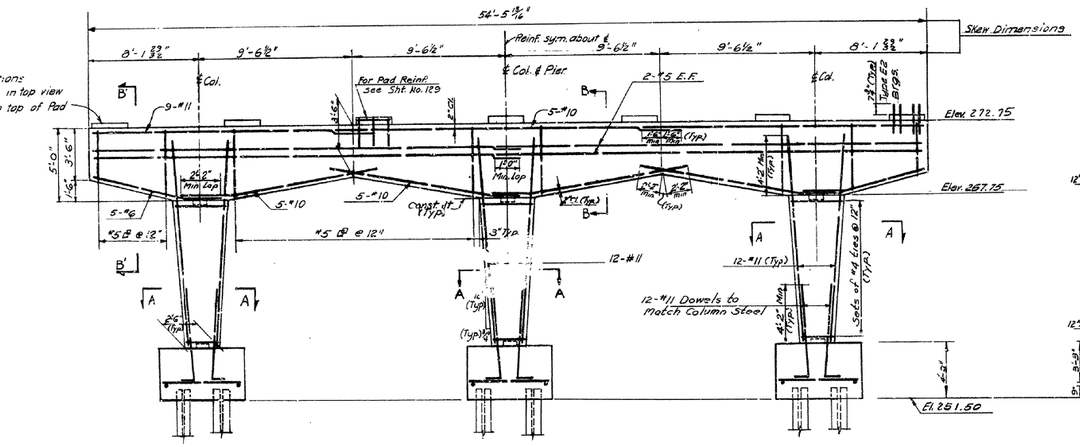
TOP VIEW
Scale 1/4"=1'-0"



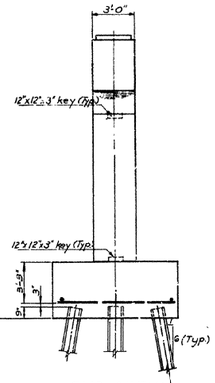
SECTION A-A
Scale: 3/4"=1'-0"



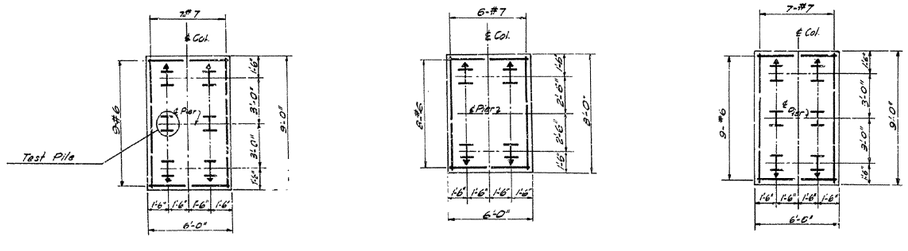
SECTION B-B
SECTION B'-B'
Scale: 3/4" = 1'-0"



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



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



PLAN OF FOOTINGS
Scale: 1/4"=1'-0"

Note:
Reinforcement - Item SP 809-5
Concrete - Class A - Item SP 802-10
Estimated Average Length of Pile = 25 ft.
Maximum Design Load per Pile = 40 Tons.
All Piles are 12 BP 53 Steel Bearing Piles Item SP 807-7
Batte - 1 on 6.
Estimated Length of Test Pile = 30 ft.

References:
For General Notes see Sheet No. 4.
For General Plan see sheet No. 101.
For Framing Plan see sheet No. 102
For Anchor Bolt Details see sheet No. 129.
For Pile Splice Details see sheet No. 128

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. ROOSEVELT RD. - LITTLE ROCK
STRUCTURE NO. 5
PIER (NORTHBOUND)

Revised	6-15-59	DWG. NO. 121-B 5009	SCALE As Noted	DATE 1-5-59	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS

Revised: Test Pile. 5-25-60 A.H.D.

In Charge Of R. Cuccioli
Made By F.A.
Traced By F.A.
Checked By H.G.

BRIDGE NO. 3395A&B DRAWING NO. 11047

FOR INFORMATION ONLY

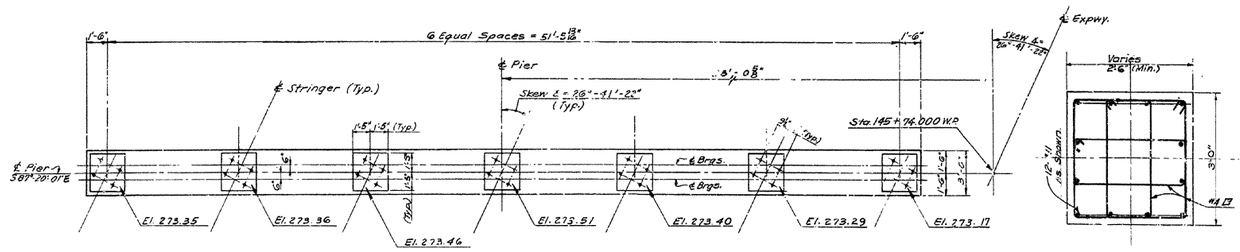
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	22	123

(1) SITE NO. 1 & 2 - FOR INFORMATION ONLY

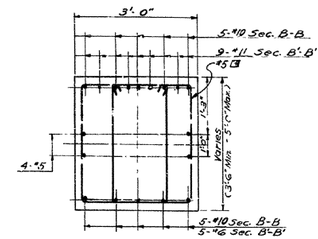
102

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)39		104	194
JOB NO. 6594					

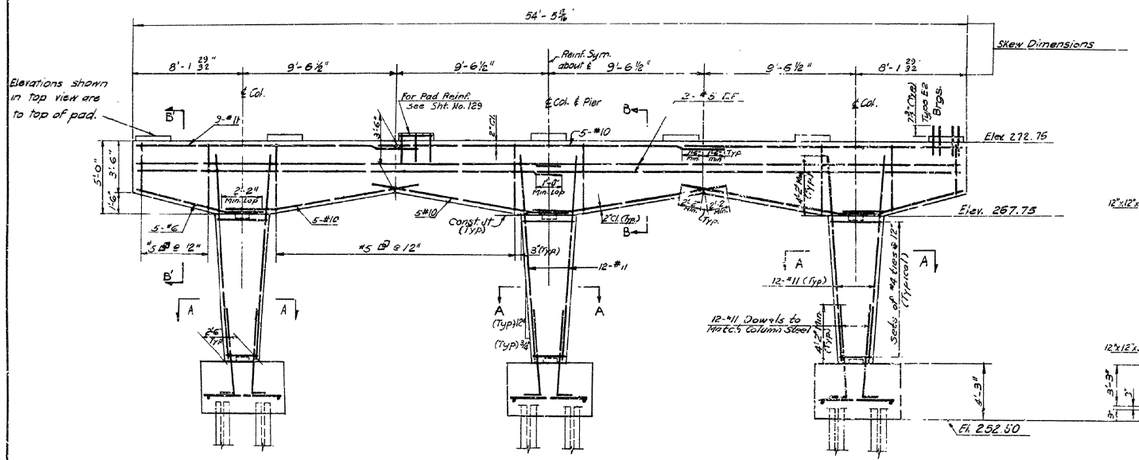


TOP VIEW
Scale 1/4" = 1'-0"

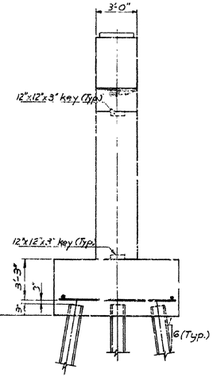
SECTION A-A
Scale: 3/4" = 1'-0"



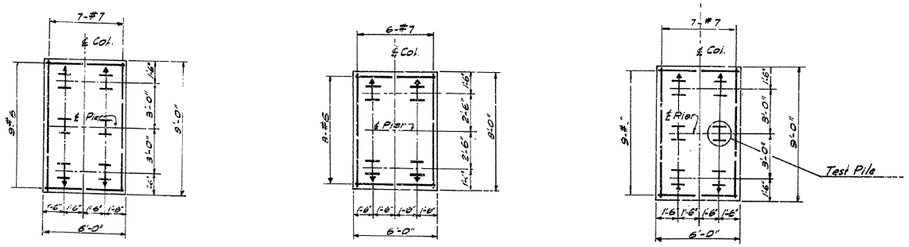
SECTION B-B
SECTION B'-B'
Scale: 3/4" = 1'-0"



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



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



PLAN OF FOOTINGS
Scale: 1/4" = 1'-0"

Note:
Reinforcement - Item SP 803-5
Concrete - Class A - Item SP 802-10
Estimated Average length of Piles = 25 Ft.
Maximum Design Load per Pile = 40 Ton
All Piles are 12BP53 Steel Bearing Piles Item SP 607-7.
Batter 1:12.
Estimated Length of Test Pile = 30 Ft.

References:
For General Notes see sheet No. 4.
For General Plan see sheet No. 101.
For Framing Plan see sheet No. 102.
For Anchor Bolt Details see sheet No. 129
For Pile Splice Details see sheet No. 128

Revised: Test Pile 5-25-60 A.H.D.

..In Charge Of R. Cuccioli
Made By F.A.
Traced By F.A.
Checked By H.G.

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. ROOSEVELT RD. - LITTLE ROCK
STRUCTURE NO 5
PIER (SOUTHBOUND)

Revised	6-15-59	DWG. NO. 1218 5010	SCALE As Noted	DATE 1-5-59	BLAU/ELT ENGINEERING CO. CONSULTING ENGINEERS

BRIDGE NO. 3395A&B DRAWING NO. 11048

FOR INFORMATION ONLY

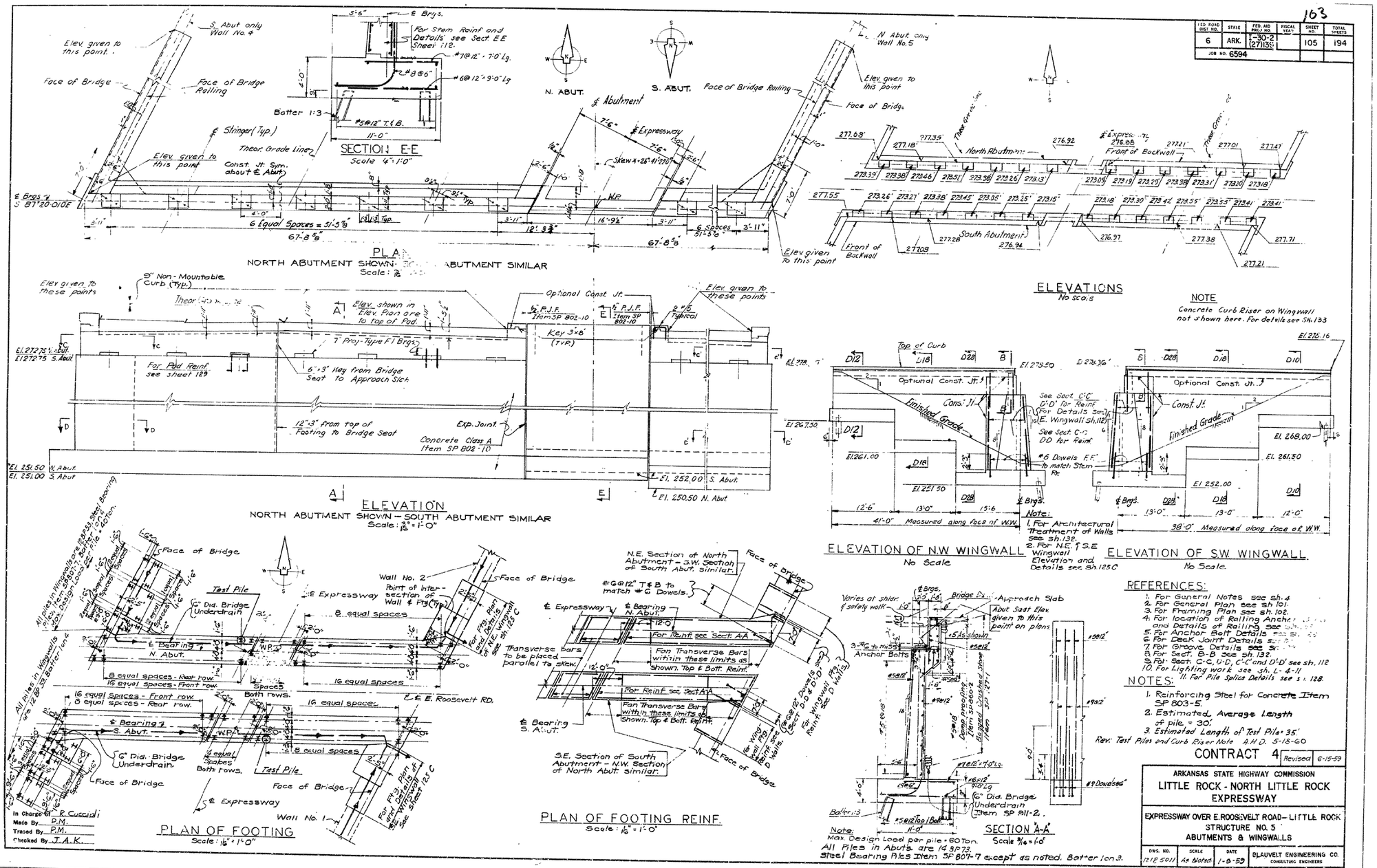
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	23	123

(1) SITE NO. 1 & 2 - FOR INFORMATION ONLY

163

I.C. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)135		105	194
JOB NO. 6594					



CONTRACT 4 Revised 6-15-59

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. ROOSEVELT ROAD — LITTLE ROCK
STRUCTURE NO. 5
ABUTMENTS & WINGWALLS

DWG. NO.	SCALE	DATE	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
1215011	As Noted	1-5-59	

BRIDGE NO. 3395A&B DRAWING NO. 11049

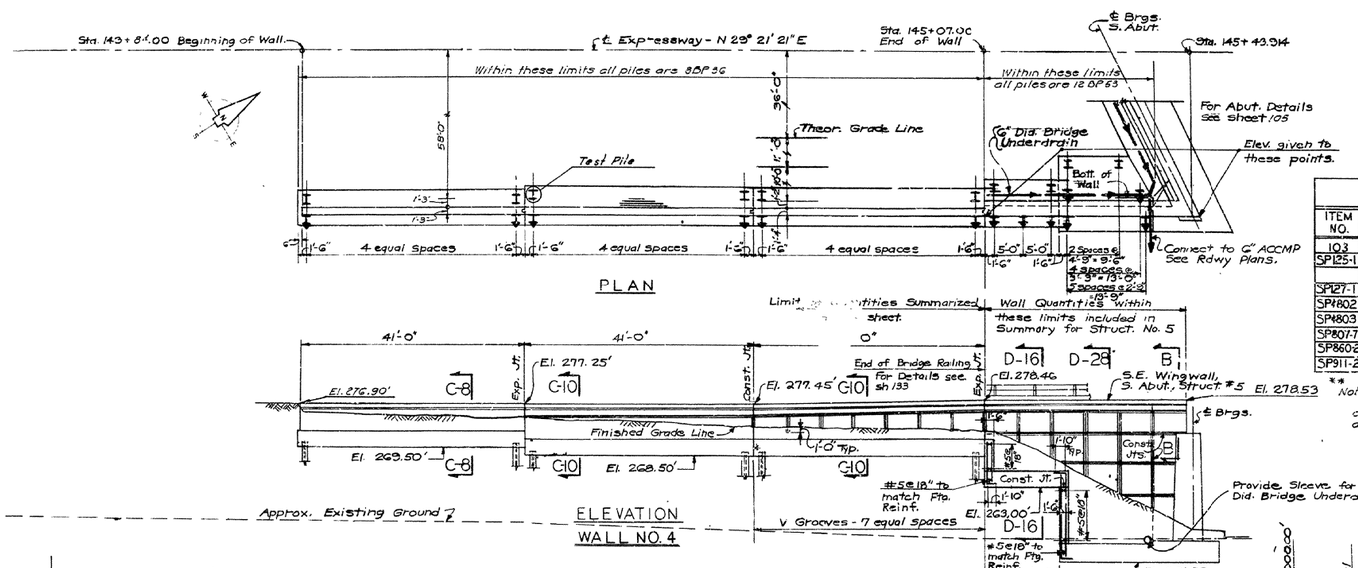
FOR INFORMATION ONLY

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.		061783	24	123

(I) SITE NO. 1 & 2 - FOR INFORMATION ONLY

126

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		1250	194
JOB NO. 6594					



SUMMARY OF QUANTITIES - WALLS

ITEM NO.	ITEM	UNIT	4	5	TOTAL OF QUANTITIES
103	Dry Excavation for Structures	C.Y.	——	——	——
SP125-1	Special Compaction of Earthwork	C.Y.	198	502	700
~~[illegible]~~	~~[illegible]~~	~~C.Y.~~	~~198~~	~~502~~	~~700 **~~
SP127-1	Bagged Crushed Stone	C.Y.	——	31	31
SP1802	Class A Concrete for Bridges	C.Y.	120	227	347
SP1803	Reinforcing Steel	LB.	5200	10,030	15,230
SP807-7	Steel Bearing Piling (8 BP 36)	L.F.	1,345	2,175	3,520
SP8602	Damp Proofing	S.F.	730	1,585	2,315
SP911-2	6" Dia. Bridge Underdrain	L.F.	——	125	125

** ~~Quantity included in Rdwy. Shown See Sheet 16.~~

Notes: All quantities listed under compaction and enbankment are swelled quantities.

REFERENCES:
1. For location of Wall see sheets 37 and 38
2. For details of Const and Expansion Joints see sheet 129
3. For Wall Sections C-12, C-10, CB, D-16, D-20, D-28, and D-30 see sheets 134 and 135 A
4. For Section A-A see sheet 135 A
5. For Groove Details see Sheet 132
6. For Section B-B see sheet 132
7. For Lighting Work see sheet L-4-11.
8. For Pile Splice Details see sheet 128.

NOTES
1. Estimated Average length of Piles = 45 ft.
2. * These Const. Joints in the Footings are optional.
3. All 8BP36 Piles are steel Bearing Piles batter ton 4. Item SP 807-1 Max design load per pile = 30 Ton
4. All 12BP53 Piles are Steel Bearing Piles. Batter ton 4. Item SP 807-7. Max Design load per pile = 40 Ton
5. Soil Pressure = 2 tons per sq. ft. for Section A-A
6. Estimated length of Test Pile = 50 ft.

Revised: Test Piles, Wall numbers, Lighting Work, and Sheet number. 5-20-60 A.H.D.

In Charge Of R. Cuccioli
Made By I.G.
Traced By I.G.
Checked By J.D.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
WALL NO. 4 AND WALL NO. 5

Revised	6-15-59	DWG NO. 128-5071	SCALE 1" = 10'	DATE 1-5-59	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS

BRIDGE NO. 3395A&B DRAWING NO. 11072

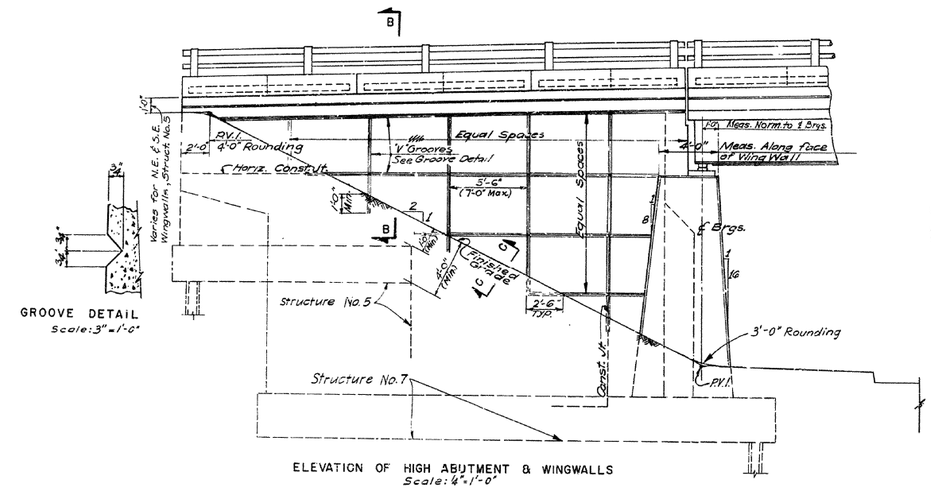
FOR INFORMATION ONLY

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.		061783	25	123

(1) SITE NO. 1&2 - FOR INFORMATION ONLY

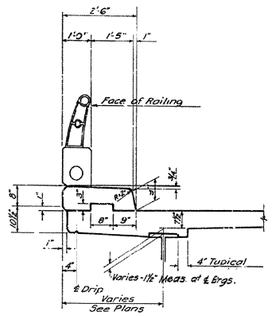
129

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		132	194
JOB NO. 6594					

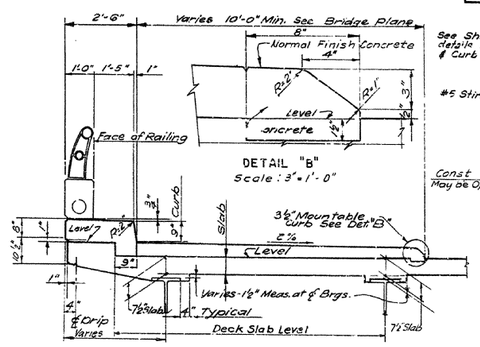


GROOVE DETAIL
Scale: 3" = 1'-0"

ELEVATION OF HIGH ABUTMENT & WINGWALLS
Scale: ¼" = 1'-0"

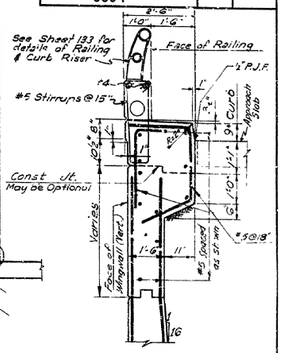


INSIDE NOSING & SAFETY WALK WITH NON-MOUNTABLE CURB
Scale: ½" = 1'-0"

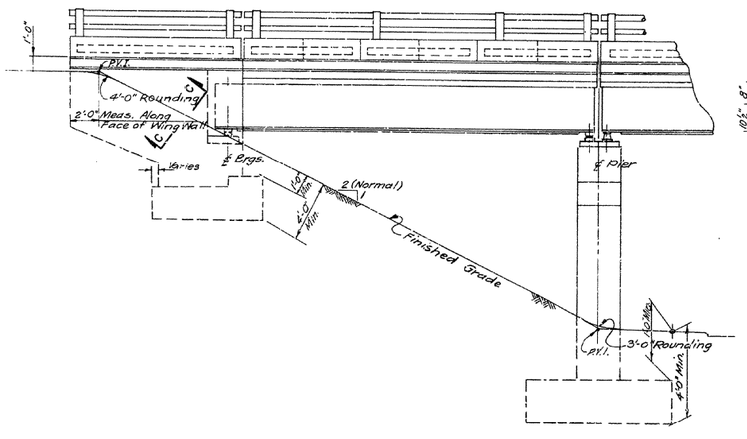


DETAIL "B"
Scale: 3" = 1'-0"

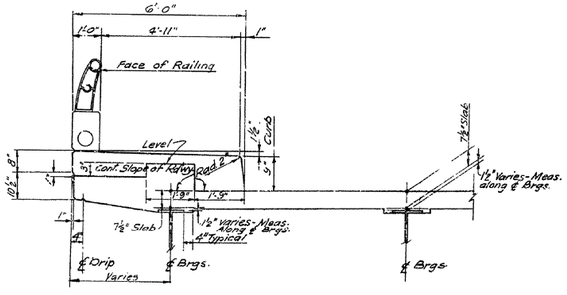
OUTSIDE NOSING & SAFETY WALK WITH MOUNTABLE CURB
Scale: ½" = 1'-0"
EXPRESSWAY OVER.



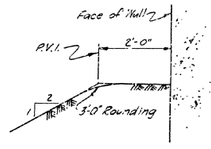
SECTION B-B
Scale: ½" = 1'-0"



ELEVATION OF STUB ABUTMENT & PIER
Scale 4" = 1'-0"



NOSING & SIDEWALK
Scale: ½" = 1'-0"
EXPRESSWAY UNDER



SECTION C-C

In Charge Of R.Cuccioli
Made By J.A.T.
Traced By J.A.T.
Checked By I.G.

Revised: Railing & Curb Riser. 5-18-60 A.H.D.

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

ARCHITECTURAL DETAILS

DWG. NO.	SCALE	DATE	BLAIVELT ENGINEERING CO. CONSULTING ENGINEERS
121-B 5000	As Noted	1-5-59	

DRAWING NO. 11075

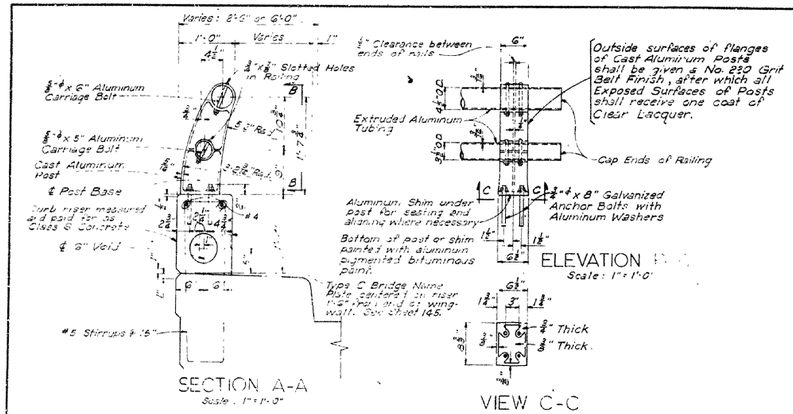
FOR INFORMATION ONLY

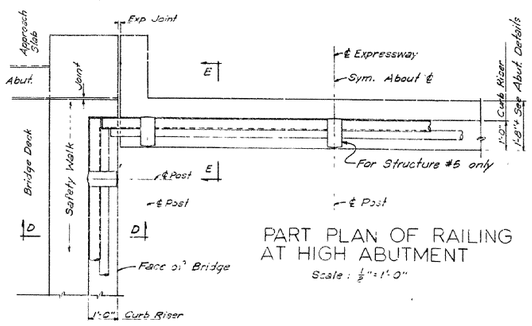
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	26	123

(1) SITE NO. 1 & 2 - FOR INFORMATION ONLY

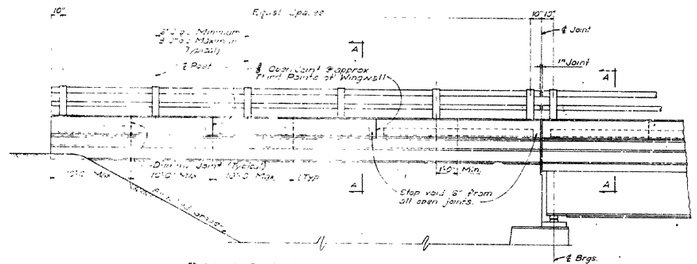
130

T-30-3
(27) 139 130 134
2534

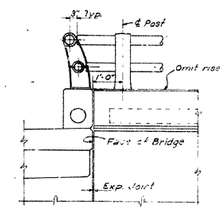




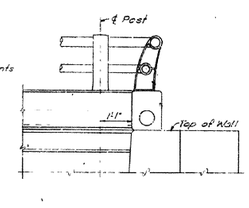
PART PLAN OF RAILING AT HIGH ABUTMENT
Scale: 1/2" = 1'-0"



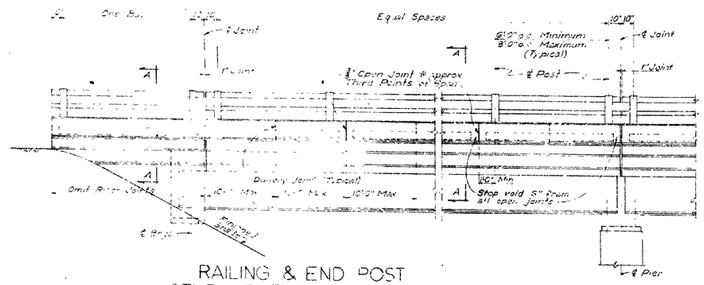
RAILING & END POST
HIGH ABUTMENT
Scale: 1/4" = 1'-0"



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



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



RAILING & END POST
STUB ABUTMENT & SPAN
Scale: 1/4" = 1'-0"

DUMMY JOINT
OPEN JOINT
PLAN CURB RISER JOINTS
Scale: 1/2" = 1'-0"

NOTES

Fabricator to determine location of railing posts and to furnish prints for approval.
Aluminum Bridge Railing Item SP 606-5.
A rail connection utilizing set screws is an acceptable alternate and may be supplied at the Contractors option.

CONTRACT 4
LITTLE ROCK-NORTH LITTLE ROCK EXPRESSWAY
ALUMINUM RAILING DETAILS

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY PLC DATE 5-12-60
TRACED BY DATE
CHECKED BY DATE 5-26-60
SCALE As Shown

BRIDGE ENGINEER

BRIDGE NO. DRAWING NO. 11076

178

FOR INFORMATION ONLY

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.		061783	27	123

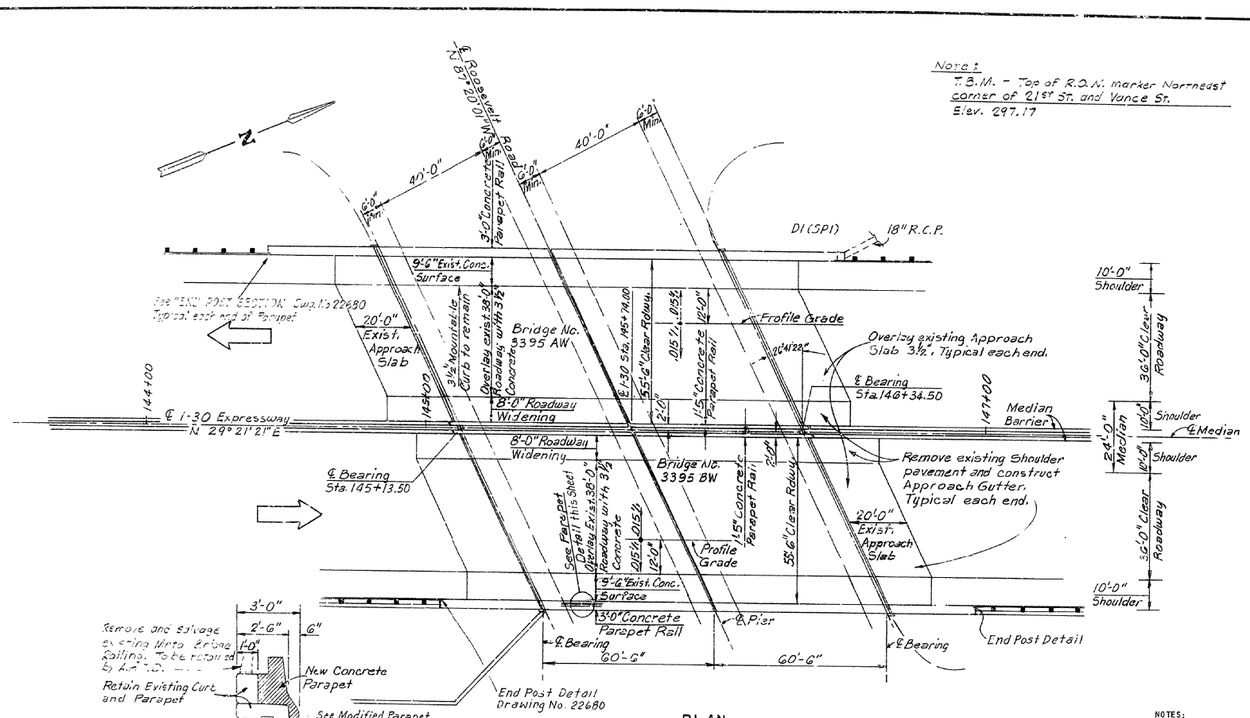
(1) SITE NO. 1&2 - FOR INFORMATION ONLY

293

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

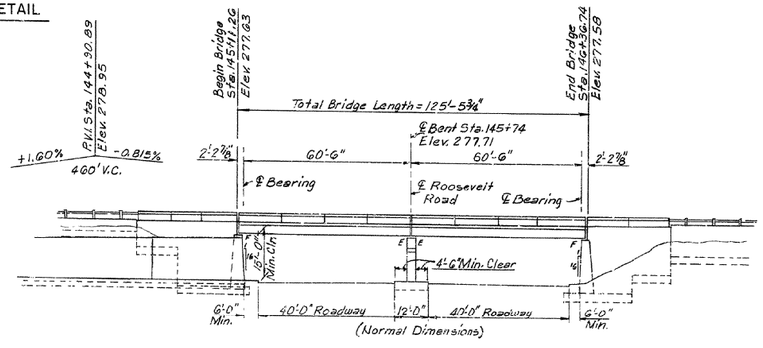
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	I-D-30-2(157)140	61	102
JOB NO.		60180	109	208
(1) 3395 AW&BW		LAYOUT		22655

Note:
T.B.M. - Top of R.O.W. marker Northeast corner of 21st St. and Vance St.
Elev. 297.17



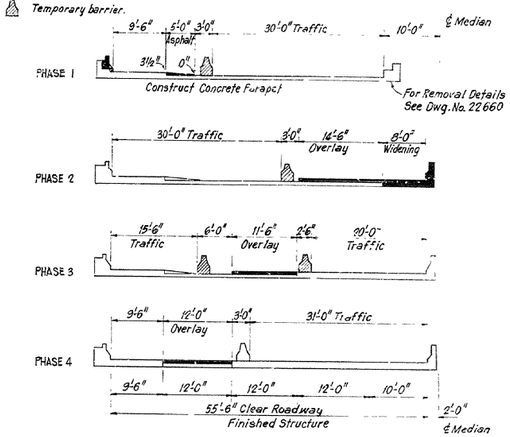
PLAN

PARAPET DETAIL



ELEVATION

LEGEND:
Work this phase.
Temporary barrier.



I-30 OVER ROOSEVELT
STAGING PLAN

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1977 WITH 1978 INTERIM SPECIFICATIONS.

DESIGN LIVE LOADING: HS20 AND SPECIAL INTERSTATE LOADING OF TWO 24,000 LB. AXLES SPACED AT 4' - 0" ON CENTERS.

UNIT STRESSES: NEW CONSTRUCTION

CLASS S CONCRETE	f'_c =	3,000 PSI
CLASS S (AE) CONCRETE	f'_c =	3,500 PSI
REINFORCING STEEL (GRADE 60)	f_s =	60,000 PSI
STRUCTURAL STEEL A-36	F_y =	36,000 PSI
STRUCTURAL STEEL A 572 GR. 50	F_y =	50,000 PSI

METHOD OF DESIGN: LOAD FACTOR

NOTES:
STATIONS AND ELEVATIONS ARE FROM ORIGINAL BRIDGE PLANS AND HAVE NOT BEEN VERIFIED IN THE FIELD.

BRIDGE ELEVATIONS ARE PROFILE GRADE ELEVATIONS WITH 3-1/ 2" CONCRETE OVERLAY.

BRIDGE ENGINEER

LAYOUT OF

I-30 OVER ROOSEVELT BRIDGE WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

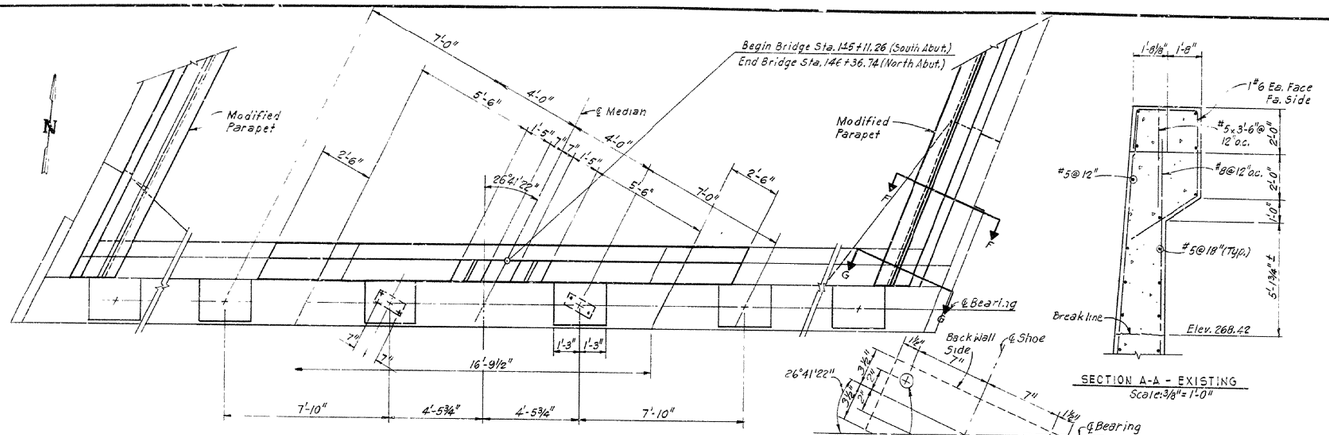
DRAWN BY: D.M.F. DATE: 10-78
CHECKED BY: T.B.H. DATE: 5-79
DESIGNED BY: T.B.H. DATE: 5-79
SCALE: 1"=20'

BRIDGE NO. 3395 AW & BW **DRAWING NO.** 22655

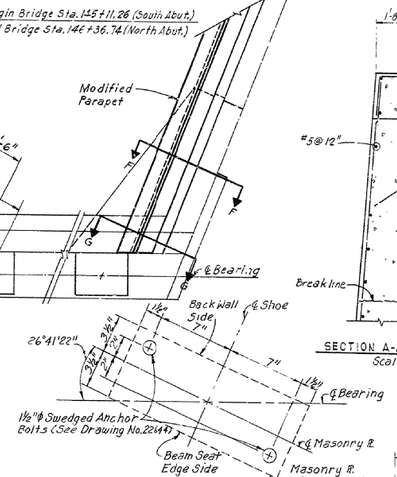
FOR INFORMATION ONLY

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.		061783	28	123
				(1)	SITE NO. 1 & 2 - FOR INFORMATION ONLY			

A.F. 7603



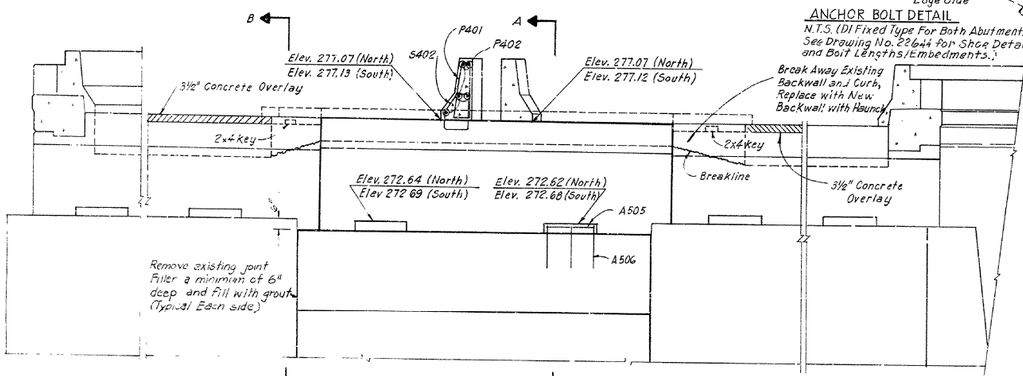
North Abutment Shown - South Abutment Similar.
Scale: 3/8"=1'-0"



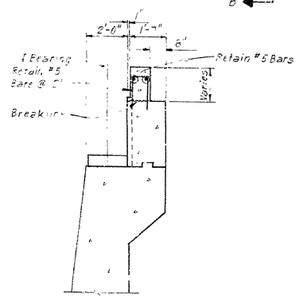
½"ϕ Swedged Anchor Bolts (See Drawing No. 22644)

ANCHOR BOLT DETAIL
N.T.S. (D) Fixed Type For Both Abutments
See Drawing No. 22644 for Shoe Details and Bolt Lengths/Embedments.

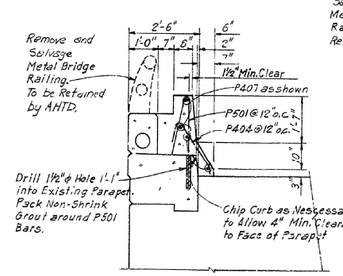
SECTION A-A - EXISTING
Scale: 3/8"=1'-0"



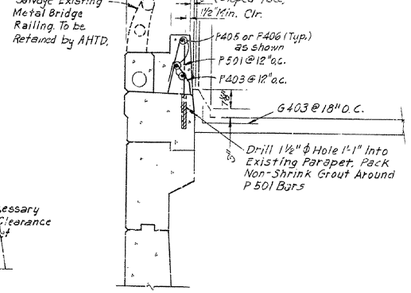
ELEVATION
North Abutment Shown - South Abutment Similar.
Scale: 3/8"=1'-0"



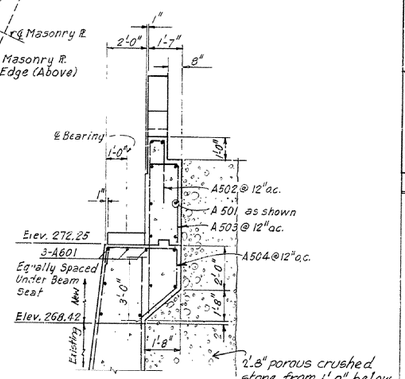
SECTION B-B
Scale: 3/8"=1'-0"



PARAPET DETAIL AT BACKWALL
(SECTION G-G)
Scale: 1½"=1'-0"



PARAPET DETAIL AT WINGWALL
(SECTION F-F)
Scale: ½"=1'-0"



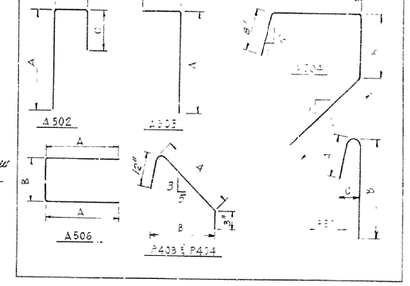
SECTION A-A
Scale: 3/8"=1'-0"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	[illegible]	62	102
				JOB NO.		[illegible]	0	208
				(1)	SEE SHEET NO. 1 FOR ABUTMENTS			

REINFORCEMENT SCHEDULE

	MARK	NO.	LENGTH	PIN O.A.	DIMENSION 2	3	J
Common To North and South Abutments	A501	14	16'-5½"	Str.			
	A502	17	10'-4½"	2½"	1'-2	-	2'-1"
	A503	17	4'-10"	2½"	3'-6"	1'-8"	N.A.
	A504	17	7'-10"	2½"	3'-4"	1'-8"	2'-2½"
	A505	6	4'-6"	Str.			
	A506	6	5'-0½"	2"	1'-10"	1'-7"	N.A.
	A601	8	10'-5½"	Str.			
	P401	4	5'-8½"	2"	See Bar Bending Diagram		
	P402	10	0'-9½"	Str.			
	S402	4	5'-10½"	2"	See Bar Bending Diagram		
North Wingwall Modified Parapets	P403	82	2'-1"	2"	0'-9"	0'-9½"	N.A.
	P404	2	3'-0"	2"	1'-9"	1'-8½"	N.A.
	P405	8	39'-8"	Str.			
	P407	8	0'-9½"	Str.			
	P501	84	5'-0"	2½"			
South Wingwall Modified Parapets	P403	76	2'-1"	2"	0'-9"	0'-9½"	N.A.
	P404	2	3'-0"	2"	1'-9"	1'-8½"	N.A.
	P406	8	36'-8"	Str.			
	P407	10	0'-9½"	Str.			
	P501	78	5'-0"	Str.	0'-9"	3'-0"	4'-7"

BENDING DIAGRAM



* N.A. = Not Applicable

DETAILS OF ABUTMENTS
I-30 OVER ROOSEVELT BRIDGE WIDENING

PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: JBZ DATE: 1-79
CHECKED BY: TBH DATE: 1-79
DESIGNED BY: TBH DATE: 1-79
SCALE: AS NOTED

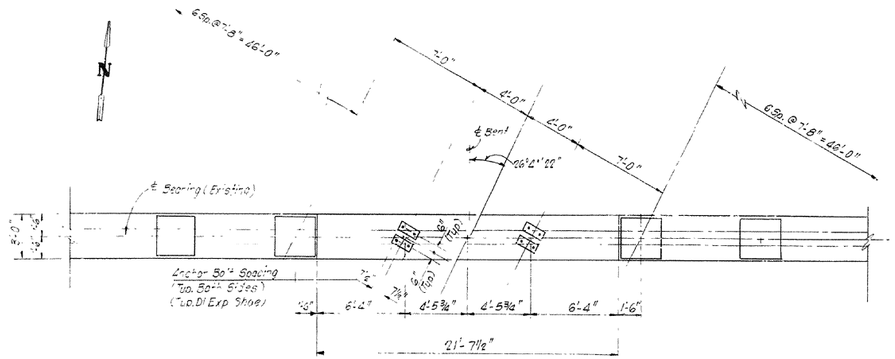
BRIDGE NO. 3395 AW & BW DRAWING NO. 22656

BRIDGE ENGINEER

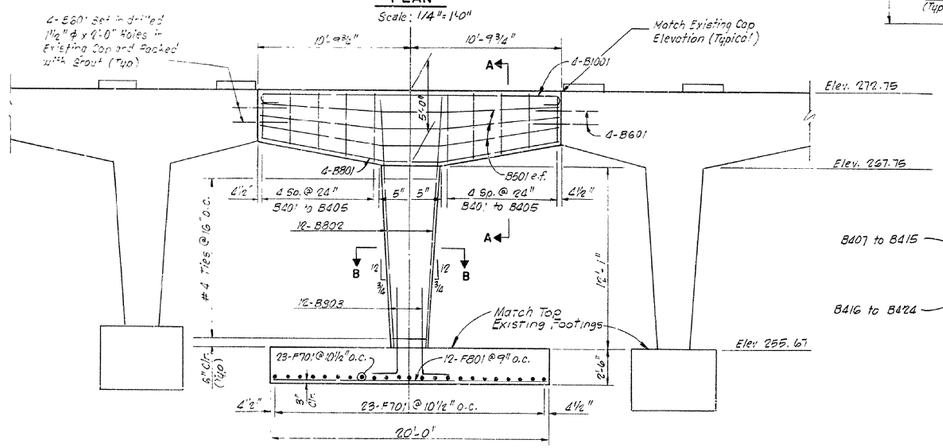
FOR INFORMATION ONLY

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.		061783	29	123
				(1)	SITE NO. 1 & 2 - FOR INFORMATION ONLY			

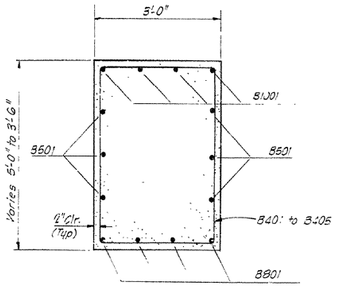
A-F 7600



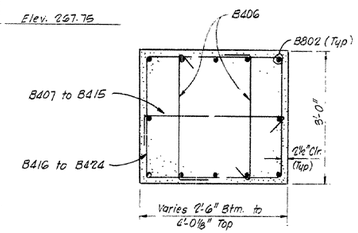
PLAN
Scale: 1/4" = 1'-0"



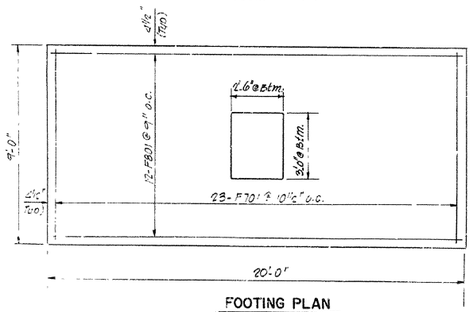
ELEVATION
Scale: 1/4" = 1'-0"



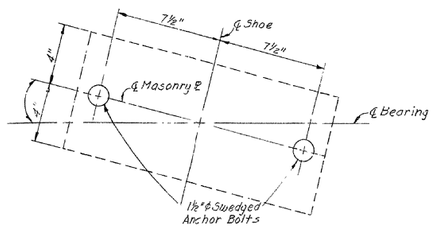
SECTION A-A
Scale: 3/4" = 1'-0"



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



FOOTING PLAN
Scale: 3/8" = 1'-0"



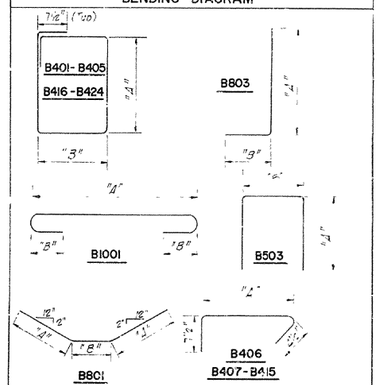
ANCHOR BOLT DETAIL FOR EXP. DI SHOE
N.T.S. See Drawing No. 22644 for Anchor Bolt Details and Shoe Details.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-D-30-2(157)140	63	102
				JOB NO.		60180	111	208
				(1)	3395 AW & BW	DTLS. OF PIERS		22657

REINFORCEMENT SCHEDULE

MARK	NO.	LENGTH	PIN DIA.	DIMENSION A	DIMENSION B
B401 to B405	2 ea.	12'-7" to 15'-1"	6"	8'-2 1/2" to 10'-8"	6'-8"
B406	18	8'-8"	6"	6'-7"	
B407 to B415	1 ea.	9'-1" to 11'-5"	6"	10'-1" to 11'-2"	See Bottom of Diagram
B416 to B424	1 ea.	10'-6" to 13'-0"	6"	8'-2" to 9'-2"	6'-8"
B501	8	22'-3½"	Str.		
B601	8	4'-0"	Str.		
B801	4	16'-8"	6"	8'-9"	4'-0"
B802	12	16'-7"	Str.		
B803	12	7'-9"	6"	6'-7½"	1'-4"
B1001	4	22'-11½"	10"	21'-8½"	1'-6"
F701	23	8'-6"	Str.		
F801	12	19'-6"	Str.		

BENDING DIAGRAM



NOTE: Dimensions of Bars are Out to Out.

SHEET 1 OF 1

DETAILS OF PIERS
I-30 OVER ROOSEVELT BRIDGE WIDENING

PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: [illegible] DATE: 5-1973
CHECKED BY: [illegible] DATE: 5-1973
DESIGNED BY: [illegible] DATE: 5-1973
SCALE: 1" = 1'-0"

BRIDGE ENGINEER

BRIDGE NO. 3395 AW & BW DRAWING NO. 22657

FOR INFORMATION ONLY

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.		061783	30	123

(1) SITE NO. 1 & 2 - FOR INFORMATION ONLY

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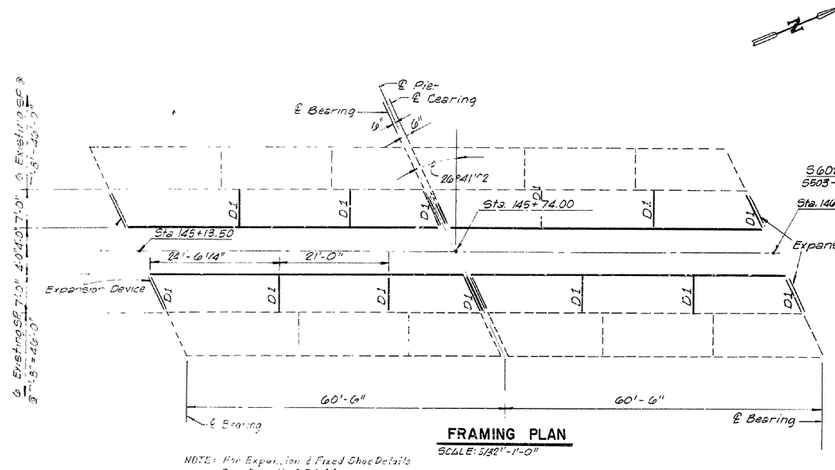
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-30-2(157)140	64	102
				JOB NO.		60180	112	208

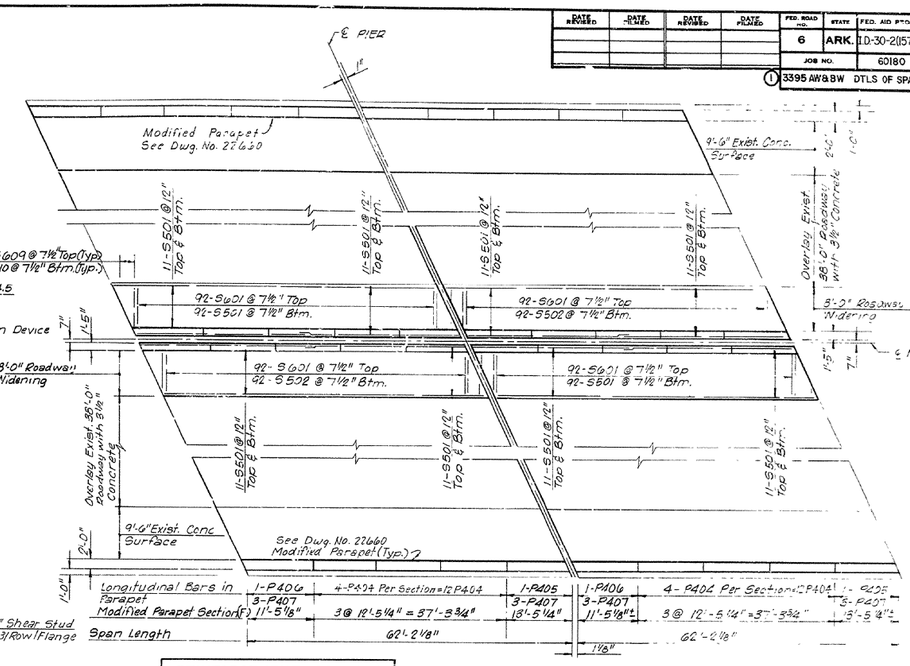
(1) 3395 AW & BW DTLS OF SPANS 22658

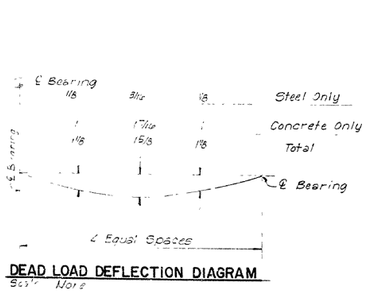


FRAMING PLAN
SCALE: 3/32" - 1'-0"

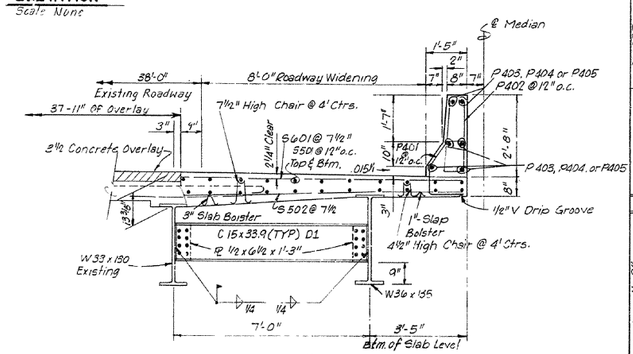
NOTE: For Expansion & Fixed Shoe Details See Dwg. No. 22644

ELEVATION
Scale: None





DEAD LOAD DEFLECTION DIAGRAM
Scale: None

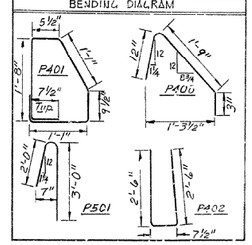


SECTION @ WIDENING
Scale: 1/2" = 1'-0"

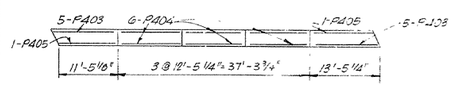
REINFORCEMENT SCHEDULE

	MARK	NO.	LENGTH	PIN DIA
SLAB	S501	176	32'-0"	STR.
	S502	368	9'-9"	STR.
	S503 to S510	8 ea.	8'-5 1/2" to 1'-0"	STR.
	S601	368	9'-10"	STR
	S602 to S609	8 ea.	8'-5 1/2" to 1'-0"	STR.
CLOSED PARAPET	P401	256	5'-11 1/2"	2"
	P402	256	5'-5 1/2"	2"
	P403	40	12'-10 1/2"	STR.
	P404	72	12'-1"	STR
	P405	8	11'-1"	STR
MODIFIED PARAPET	P404	48	12'-1"	STR.
	P405	4	11'-1"	STR.
	P406	4	13'-1"	STR.
	P407	24	12'-7"	STR
	P408	256	3'-0"	2"
	P501	256	5'-0"	2"

BENDING DIAGRAM



SLAB PLAN
Scale: 3/32" - 1'-0"



MEDIAN PARAPET
Scale: None

NOTES:
1. See Drawing No. 22660 for Details of Joints and Existing Bridge Sections
2. Structural Steel in Beams shall be ASTM A36
All other Structural Steel shall be A36

SHEET 1 OF 1
DETAILS OF SPANS
I-30 OVER ROOSEVELT BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: L.W.J. DATE: 5-79
CHECKED BY: T.B.H. DATE: 6-79
DESIGNED BY: T.B.H. DATE: 10-78
SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 3395 AW & BW DRAWING NO. 22658

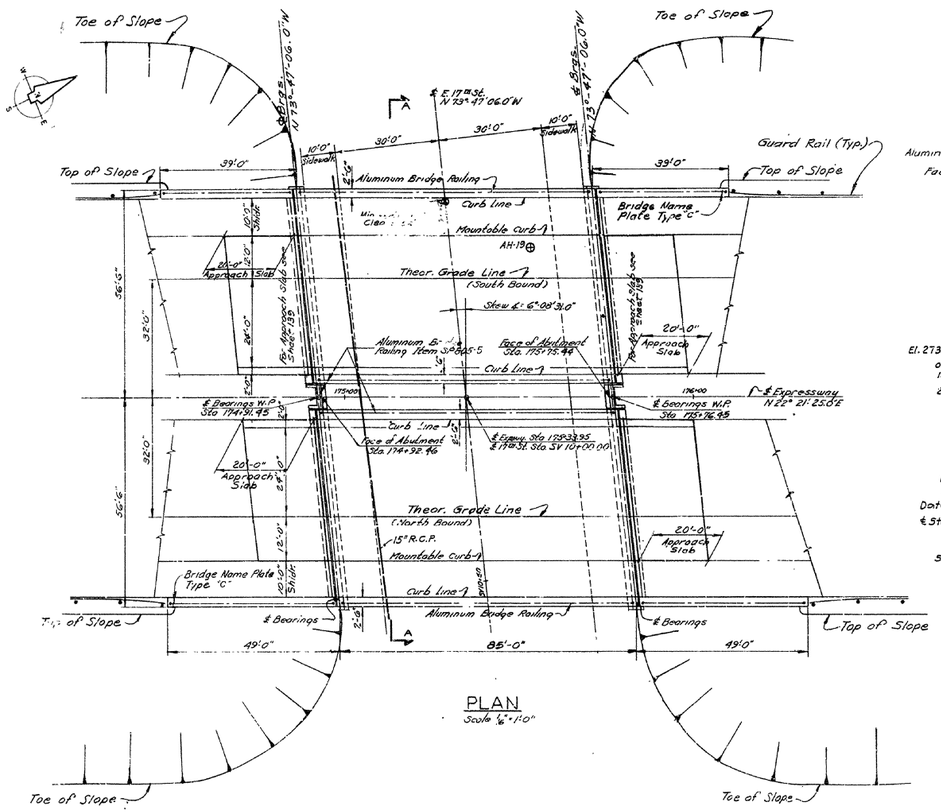
FOR INFORMATION ONLY

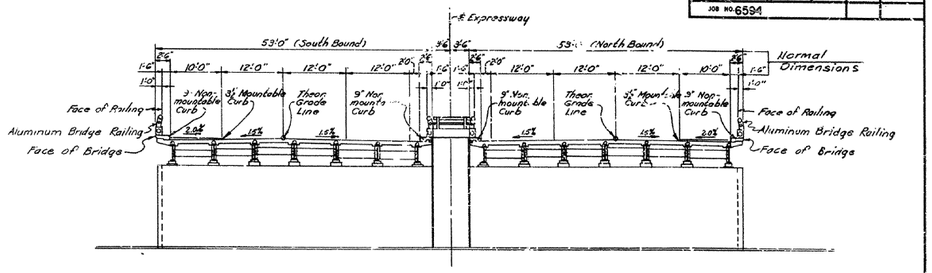
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	31	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

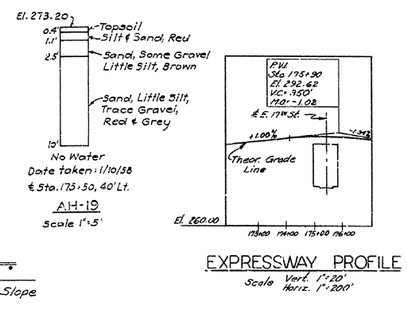
108

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27) 139		110	194
JOB NO. 6591					

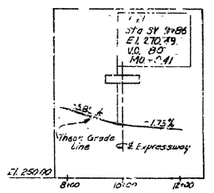




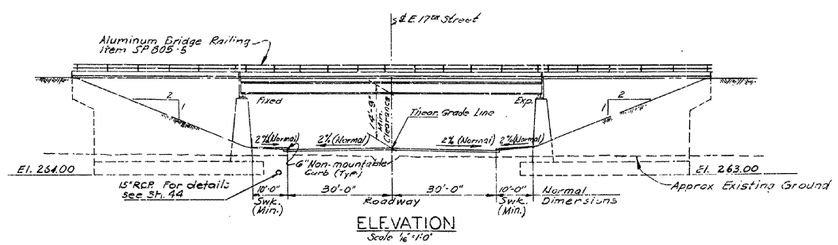
SECTION A-A
Scale 3/32" = 1'-0"



EXPRESSWAY PROFILE
Scale Vert. 1" = 20'
Horiz. 1" = 200'



EAST 17TH ST. PROFILE
Scale Vert. 1" = 20'
Horiz. 1" = 200'



ELEVATION
Scale 1/8" = 1'-0"

CODE TYPE X231

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	S. ABUT.	SPAN	N ABUT.	TOTAL
103	Dry Excavation for Structures	C.Y.	625	——	400	1,025
SP 125-1	Special Compaction of Earthwork	C.Y.	5,750	——	8,200	13,950
SP 127-1	Bagged Crushed Stone	C.Y.	150	——	150	300
SP B 802	Class A Concrete for Bridges	C.Y.	753	——	753	1,506
SP B 802	Class S Concrete for Bridges	C.Y.	4	327	4	335
SP B 803	Reinforcing Steel	L.B.	65,670	44,170	65,670	175,510
* SP 805-6	Shear Connectors	L.B.	——	2,820	——	2,820
SP 805-5	Aluminum Bridge Railing	L.F.	95	338	95	528
SP B 807	Structural Steel in Beam Spans	L.B.	200	347,600	2,900	350,700
SP 860-2	Damp Proofing	S.F.	4,000	——	4,000	8,000
SP 911-2	6" Dia. Bridge Underdrain	L.F.	180	——	180	250
929	Bridge Name Plate—Type C	Ea.	1	——	1	2

Note: All quantities listed under compaction and embankment are swelled quantities.

* Quantities shown for Shear Connectors are based on Spirol Bar Shear Connectors. See Special Provisions.

REFERENCES:
For General Notes see Sheet 4.
For Framing Plan see Sheet 111.
For Deck Joint Details see Sheet 130.
For Architectural Details see Sheet 132.
For Bridge Railing Details see Sheet 133.
For Embankment Const. see Sheet 136.
For Excavation Details see Sheet 137.
For Boring Logs see Sheet 136.
For Bridge Name Plates see Sheet 145.
For Approach Slab see Sheet 139.
For Lighting Work see Sheet L-4-13

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 17TH. ST.
LITTLE ROCK
STRUCTURE NO. 7
GENERAL PLAN & ELEVATION

In Charge Of R. Cuccioli
Made By E.A.
Traced By E.A.
Checked By J.D.

Rev. Railing & Lighting A.H.D. 5-19-60

Revised	6-15-59	DWG. NO. 21-B 5051	SCALE As Noted	DATE 1-5-59	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS

BRIDGE NO. 3397A&B DRAWING NO. 11054

FOR INFORMATION ONLY

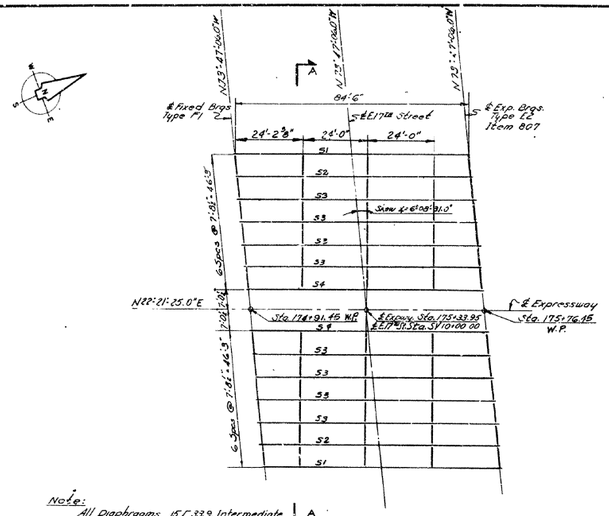
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	32	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

109

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		111	194
JOB NO 6594					

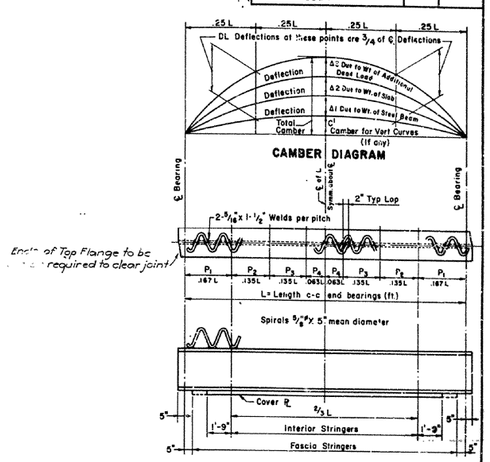


Note:
All Diaphragms 15 E 33.9, Intermediate Diaphragms to be placed normal to Stringers.

FRAMING PLAN
Scale 1" = 20'

DEAD AND LIVE LOAD DISTRIBUTION FOR STRUCTURES 5 & 7		
STRINGERS	UNIFORM DEAD LOAD IN KIPS/LF.	LIVE LOAD FACTOR*
S1	1.75	1.20
S2	1.32	.96
S3	1.01	.96
S4	1.45	1.20

*Live Load Factor: The live load factor multiplied by the moment taken from the table on pg. 287 in A.A.S.H.O. 6th Edition will give the design live load moment.

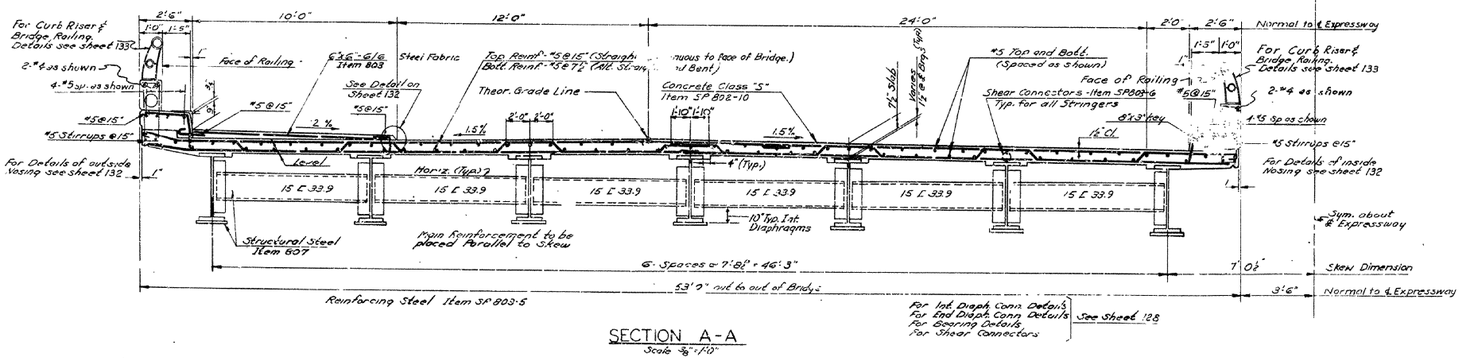


PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS
Not to Scale

STRINGER SCHEDULE

Member	Size	Cov Pl.	P1	P2	P3	P4	Δ1	Δ2	Δ3	Total Dead Load Defl.	r1	Total Camber Center
S1	36WF230	20"x1"	5½"	7"	8½"	10½"	.60	.55	.50	2.65"	¾"	3 3/8"
S2	36WF230	20"x1"	6½"	7½"	9"	12"	.55	.65	–	2.20"	¾"	3"
S3	36WF230	20"x⅞"	6½"	7½"	9"	12"	.55	.65	–	2.20"	¾"	3"
S4	36WF194	16"x1⅛"	7"	9"	10½"	13"	.60	.55	.50	2.65"	¾"	3 3/8"



SECTION A-A
Scale ⅜" = 1'-0"

REFERENCES:
For General Notes see Sheet 4
For General Plan see Sheet 110.
For Deck Joints at Piers & Abutments see Sheet 130.
For Lighting Work see Sheet L-4-13

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 17TH ST
LITTLE ROCK
STRUCTURE NO. 7
FRAMING PLAN

Revised	6-15-59	DWG. NO. 121-B 5760	SCALE As Noted	DATE 1-5-59	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS

In Charge of P. Cuccia
Made By F.A.
Traced By F.A.
Checked By P.S.

Rev. Railing & Lighting A.H.D. 5-20-60

BRIDGE NO. 3397A&B DRAWING NO. 11055

32

FOR INFORMATION ONLY

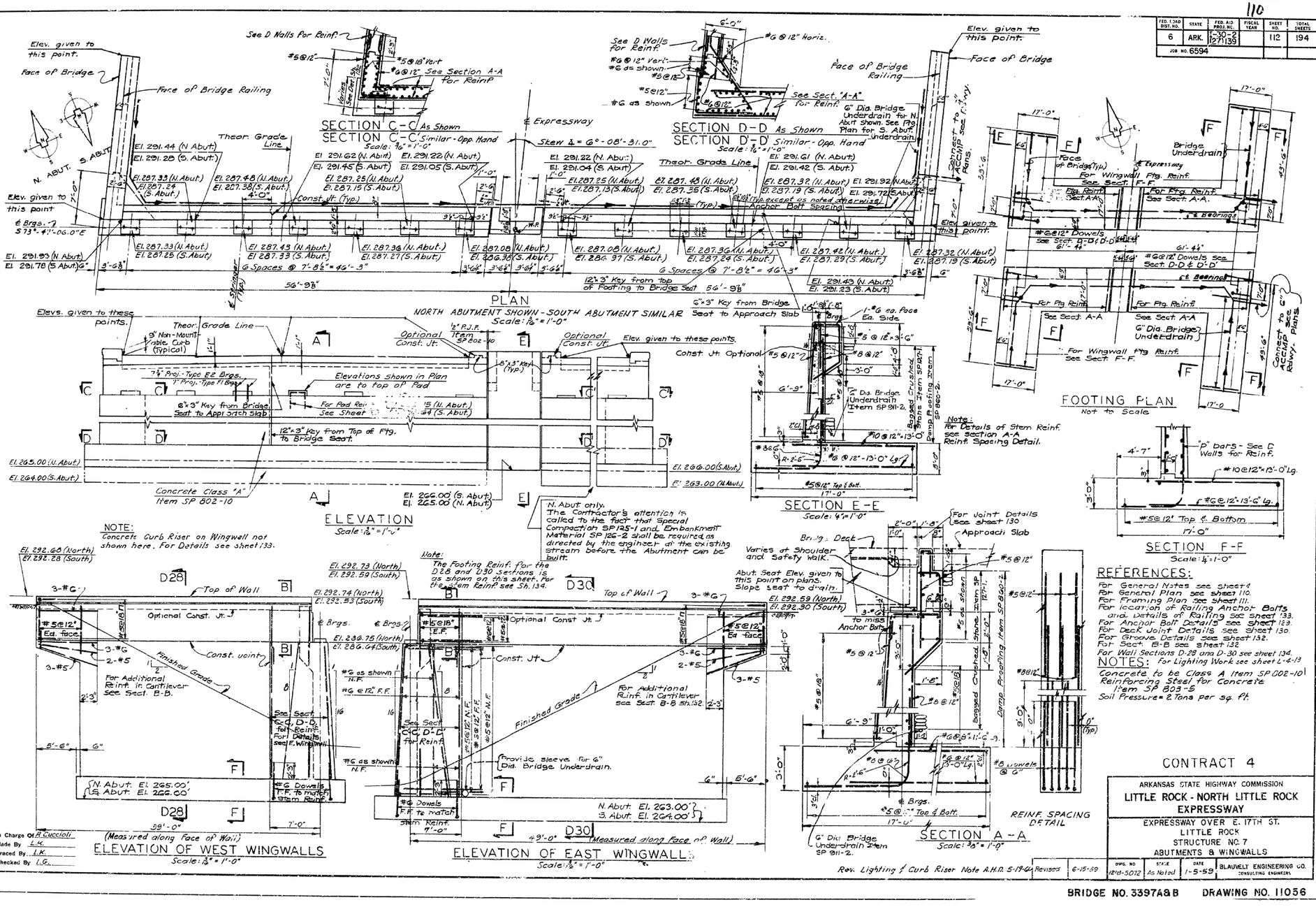
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	33	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

110

FED. T.340 DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	F-30-2 (27)139		112	194
JOB NO. 6594					



REFERENCES:

For General Notes see sheet 1
For General Plan see sheet 110.
For Framing Plan see sheet 111.
For location of Railing Anchor Bolts and details of Railing see sheet 133.
For Anchor Bolt Details see sheet 123.
For Deck Joint Details see sheet 130.
For Groove Details see sheet 132.
For Sect. B-B see sheet 132.
For Wall Sections D-28 and D-30 see sheet 134.
For Lighting Work see sheet L-4-13

NOTES:

Concrete to be Class A Item SP 002-10
Reinforcing Steel for Concrete Item SP 803-5
Soil Pressure = 2 Tons per sq. ft.

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 17TH ST.
LITTLE ROCK
STRUCTURE NO. 7
ABUTMENTS & WINGWALLS

DWG. NO.	SCALE	DATE	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
1818-5072	As Noted	1-5-59	

Revised	6-15-59

Rev. Lighting & Curb Riser Note A.H.D. 5-19-61

In Charge Of A. Cuccioli
Made By L.K.
Traced By L.K.
Checked By L.G.

BRIDGE NO. 3397A&B DRAWING NO. 11056

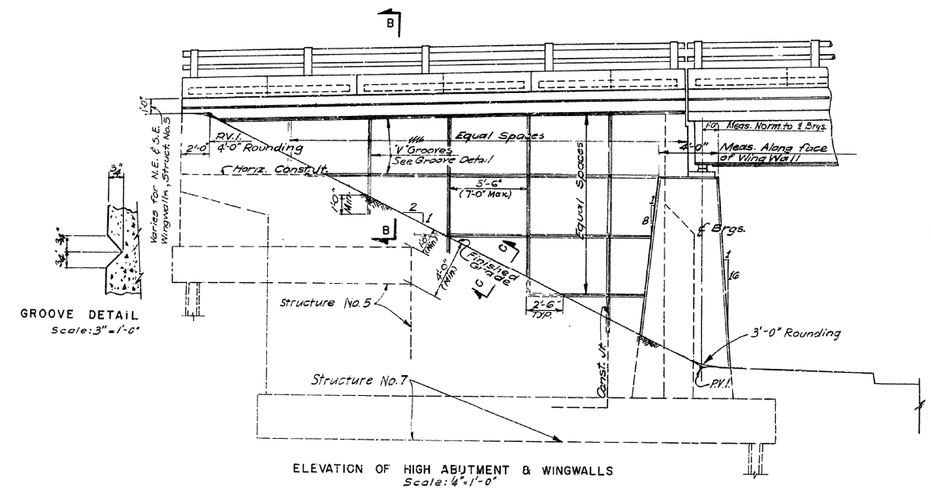
FOR INFORMATION ONLY

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.		061783	34	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

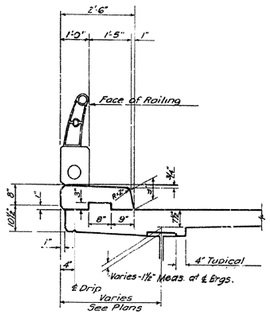
129

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (27)139		132	194
JOB NO. 6594					

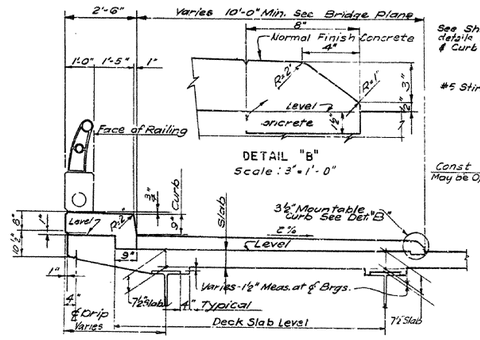


ELEVATION OF HIGH ABUTMENT & WINGWALLS
Scale: ¼"=1'-0"

GROOVE DETAIL
Scale: 3"=1'-0"

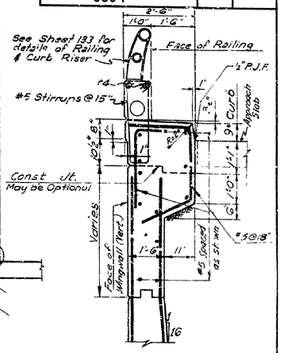


INSIDE NOSING & SAFETY WALK WITH NON-MOUNTABLE CURB
Scale: ½"=1'-0"

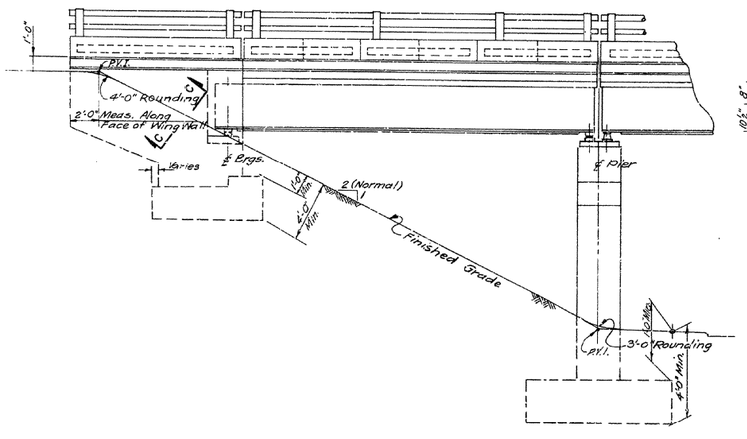


DETAIL "B"
Scale: 3"=1'-0"

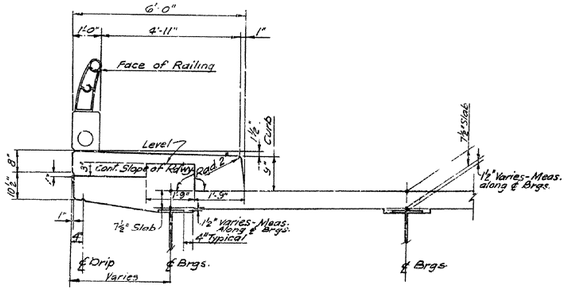
OUTSIDE NOSING & SAFETY WALK WITH MOUNTABLE CURB
Scale: ½"=1'-0"
EXPRESSWAY OVER



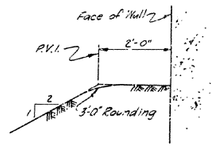
SECTION B-B
Scale: ½"=1'-0"



ELEVATION OF STUB ABUTMENT & PIER
Scale 4"=1'-0"



NOSING & SIDEWALK
Scale: ½"=1'-0"
EXPRESSWAY UNDER



SECTION C-C

In Charge Of R.Cuccioli
Made By J.A.T.
Traced By J.A.T.
Checked By I.G.

Revised: Railing & Curb Riser. 5-18-60 A.H.D.

CONTRACT 4

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

ARCHITECTURAL DETAILS

DWG. NO.	SCALE	DATE	BLAWVELT ENGINEERING CO. CONSULTING ENGINEERS
121-B 5000	As Noted	1-5-59	

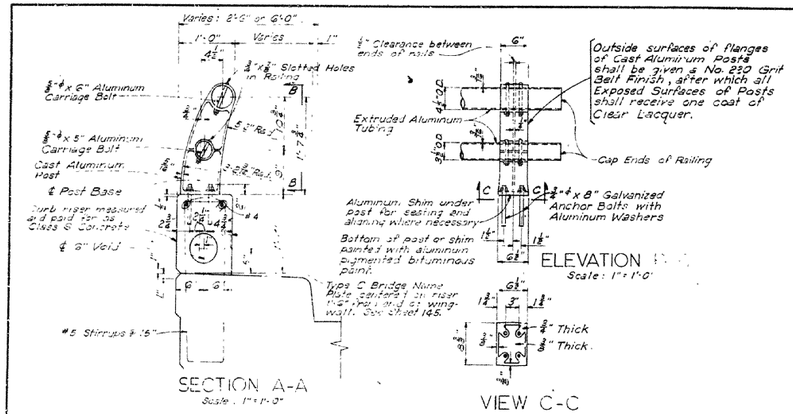
DRAWING NO. 11075

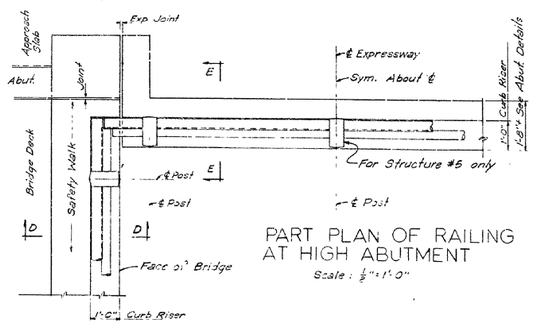
FOR INFORMATION ONLY

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.		061783	35	123
				(1)		SITE NO. 3 - FOR INFORMATION ONLY		

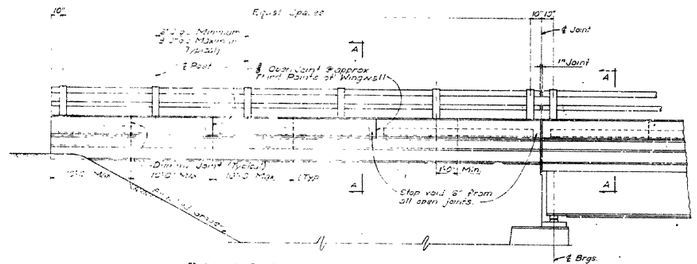
130

T-30-3
(27) 139 130 134
2534

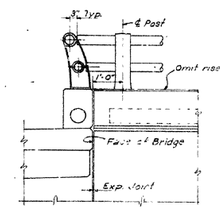




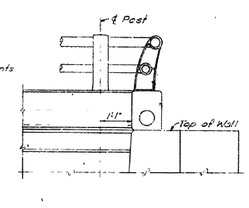
PART PLAN OF RAILING AT HIGH ABUTMENT
Scale: 1/2"=1'-0"



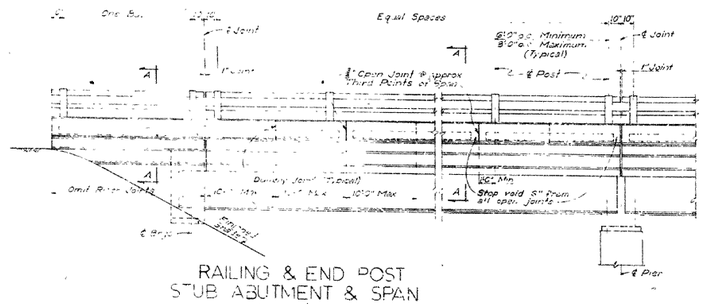
RAILING & END POST
HIGH ABUTMENT
Scale: 1/4"=1'-0"



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



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



RAILING & END POST
STUB ABUTMENT & SPAN
Scale 1/4"=1'-0"

DUMMY JOINT
OPEN JOINT
PLAN CURB RISER JOINTS
Scale: 1/2"=1'-0"

NOTES

Fabricator to determine location of railing posts and to furnish prints for approval.
Aluminum Bridge Railing Item SP 606-5.
A rail connection utilizing set screws is an acceptable alternate and may be supplied at the Contractors option.

CONTRACT 4
LITTLE ROCK-NORTH LITTLE ROCK EXPRESSWAY
ALUMINUM RAILING DETAILS

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY PLC DATE 5-12-60
TRACED BY DATE
CHECKED BY DATE 5-26-60
SCALE As Shown

BRIDGE ENGINEER

BRIDGE NO. DRAWING NO. 11076

178

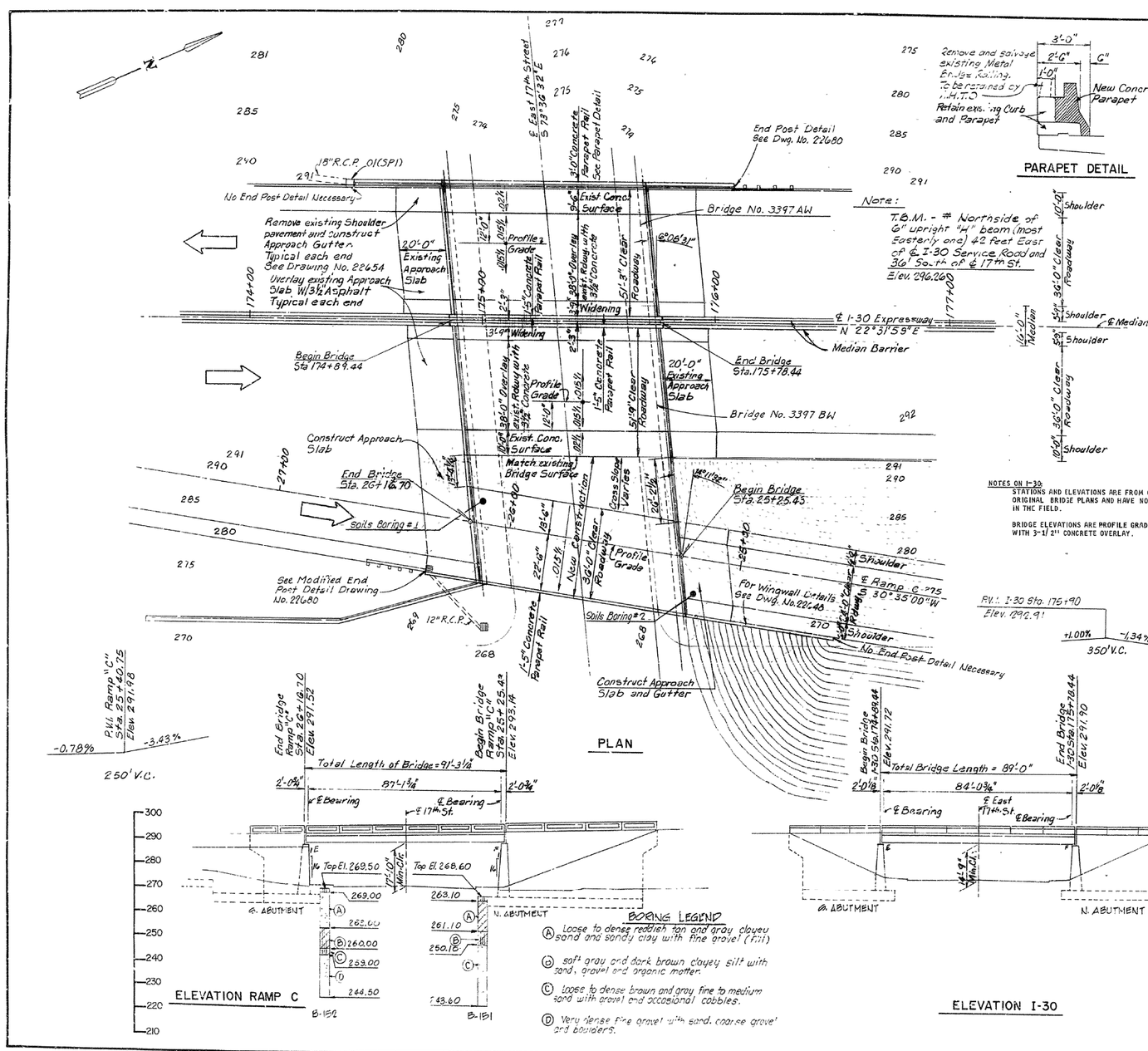
FOR INFORMATION ONLY

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.		061783	36	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

283

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	ID-630-2(64)140	90	184
				JOB NO.		60180	99	208
				(1) 3397 AW & BW		LAYOUT		22645



PARAPET DETAIL

NOTES ON I-30:
STATIONS AND ELEVATIONS ARE FROM OUR ORIGINAL BRIDGE PLANS AND HAVE NOT BEEN VERIFIED IN THE FIELD.

BRIDGE ELEVATIONS ARE PROFILE GRADE ELEVATIONS WITH 5-1" 2½" CONCRETE OVERLAY.

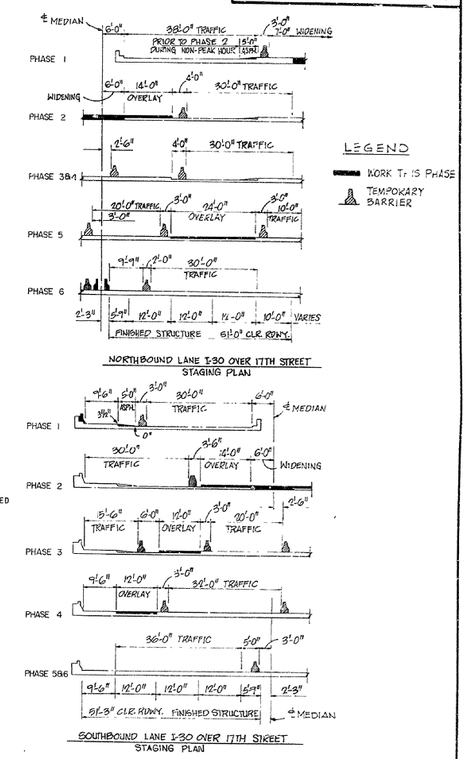
BORING LEGEND

(A) Loose to dense reddish tan and gray clayey sand and sandy clay with fine gravel (Fill)

(B) soft gray and dark brown clayey silt with sand, gravel and organic matter.

(C) Loose to dense brown and gray fine to medium sand with gravel and occasional cobbles.

(D) Very dense fine gravel with sand, coarse gravel and boulders.



LEGEND

WORK THIS PHASE

TEMPORARY BARRIER

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1977 WITH 1978 INTERIM SPECIFICATIONS.

DESIGN LIVE LOADING: HS20 AND SPECIAL INTERSTATE LOADING OF TWO 24,000 LB. AXLES SPACED AT 4' - 0" ON CENTERS.

UNIT STRESSES: NEW CONSTRUCTION

CLASS S CONCRETE	F'_c =	3,500 PSI
CLASS S (AE) CONCRETE	F'_c =	3,500 PSI
REINFORCING STEEL (GRADE 60)	F_s =	60,000 PSI
STRUCTURAL STEEL A-36	F_y =	36,000 PSI
STRUCTURAL STEEL A 572 Gr. 50	F_y =	50,000 PSI

METHOD OF DESIGN: LOAD FACTOR

LAYOUT OF

I-30 OVER 17th. BRIDGE WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: DVE 12-28 DATE: 5-75
CHECKED BY: T.S.H. DATE: 3-76
DESIGNED BY: T.S.H. DATE: 2-76

SCALE: 1"=20'

BRIDGE ENGINEER

BRIDGE NO. 3397 AW&BW **DRAWING NO. 22645**

FOR INFORMATION ONLY

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.		061783	37	123

(I) SITE NO. 3 - FOR INFORMATION ONLY

A.F. 7650

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-D-630-2(154)140	91	184
				JOB NO.		50180	100	208

(I) 3397 AW&BW DTLS. OF S. ABUT. 22646

Type A Retaining Wall
See Drawing No. 22644

5 Spaces @ 7'-1" = 35'-5"

℄ Rdwy. C

22'-6"

3 Spaces @ 3'-1 3/16" = 9'-4 7/8"

3 Spaces @ 3'-10 3/4" = 11'-6 1/4"

End Bridge Sta. 26+16.70

4'-11"32" (Typ. Angle unless otherwise noted)

11°33'01" 5°50'38" 6°05'31"

7 1/8"

7 1/2" (Exp. Shoe D1 See Drawing No. 22644)

5'-7"

5 Spaces @ 7'-3 5/8" = 36'-6 1/8"

3 Spaces @ 3'-2 5/8" = 9'-7 7/8"

4'-0 1/4"

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

Varies See Plan

1 1/2" 7 1/2" 7 1/2" 1 1/2"

℄ Bearing

℄ Bearing Plate

℄ Shoe

1 1/2"ϕ Swedged Anchor Bolts. See Drawing No. 22644 For Length and Embedment.)

ANCHOR BOLT DETAIL
U.T.S.

EL. 291.27

Elev. 290.96 Top of Closure Wall

EL. 287.78 EL. 286.86 EL. 286.94 EL. 287.01 EL. 286.89 EL. 287.03 EL. 287.08 EL. 287.20

A 503 A 503

A 501

A 402 Cast For The Closure Well Only

1'-8" 2'-4" 4'-8" 5'-8"

8-A502 Set in Drilled 1 1/2" ϕ x 2'-0" Holes in Existing Backwall and Packed with Grout. (Typ.)

291.78 Existing Abutment

1-A506

Existing Abutment

3-A504

5-A505

1-A505 Set in Drilled 1 1/2" ϕ x 1'-9" Holes in Existing Abutment Wall and Packed with Grout.

A 501 @ 18" o.c.

A 501 @ 18" o.c.

A 601 @ 12" o.c. N.F.
A 603 @ 12" o.c. F.F.

5 Spaces @ 10'-0" Each=50'-0" Weep Hole Spacing
A 602 @ 12" o.c. E.F.

9a-A502 @ 18" o.c. E.F. Set in Drilled 1 1/2" ϕ x 2'-0" Holes in Existing Wall & Packed With Grout

17'-8"

Elev. 289.00

Elev. 269.00

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

4-A506 Set in Drilled 1 1/2" ϕ x 2'-0" Holes in Existing Footing and Packed with Grout.

Existing Abutment

A 503

Varies

℄ Bearing

A 508 @ 12" o.c.

A 507

Elev. Varies

Elev. 289.67

A 604 Equally Spaced Under Beam Seat

A 502 @ 12" o.c.

A 501 as Shown in Elevation

2'-0" 1'-8" 1'-0" 5" 1'-0" 2'-0" 1'-5"

A 601 @ 12" o.c. Alternating with A 602 @ 12" o.c.

A 501 @ 18" o.c. Each Face

A 603 @ 12" o.c. Alternating with A 602 @ 12" o.c.

2" CLR. (Typ.)

4" ϕ Weep Holes (See Elev.)

12"-8" Crushed Stone From 1'-0" Below Weep Hole to Subgrade

A 605 or A 602

8'-0" 11'-0"

2'-6" 2'-6" Shear Key

AF 701 @ 6" o.c.

AF 801 @ 12" o.c. Alt. with AF 802 @ 12" o.c.

3" Clr.

3'-0"

AF 502 @ 12" o.c. Alt. with AF 503 @ 12" o.c.

4 1/2" Clr.

22-AF 501 @ 11" o.c. Top & Btm.

20'-0"

4'-6" Clr.

SECTION A-A
Scale: 3/8"=1'-0"

REINFORCEMENT SCHEDULE

MARK	NO.	LENGTH	PIN. DIA.	DIMENSION A	B	C	
A 401	2	4'-1"	STR.				
A 402	2	2'-8"	STR.				
A 501	54	27'-0"	STR.				
A 502	50	7'-10 1/2"	2 1/2"	See Bending Diagram			
A 503	8	28'-7"	STR.				
A 504	6	2'-2"	STR.				
A 505	6	4'-10 1/2"	2 1/2"	1'-7"	1'-3"	N.A.*	
A 506	34	4'-0"	STR.				
A 507	53	6'-4 3/4"	2 1/2"	5'-2"	1'-4"	N.A.*	
A 508	53	8'-0 3/4"	2 1/2"	6'-2"	3"	N.A.*	
A 601	53	17'-4"	STR.				
A 602	104	6'-0"	STR.				
A 603	53	17'-0"	STR.				
A 604	3	27'-3"	STR.				
AF 501	88	27'-4"	STR.				
AF 502	53	19'-3"	STR.				
AF 503	52	6'-11"	STR.				
AF 701	105	7'-2"	5/4"	1'-2"	6'-2"	N.A.*	
AF 801	53	19'-3"	STR.				
AF 802	52	11'-8"	STR.				

BENDING DIAGRAM

A 508 A 507 A 501 A 504 AF 701 AF 1.C.

*N.A.=Not Applicable

NOTE
Expect Some Settling (1") Along Face of Lt. Abutment Due to Soft Soil Conditions

53'-0"

AF 801 @ 12" o.c. Top
AF 501 @ 12" o.c. Btm.

AF 802 @ 12" o.c. Top
AF 503 @ 12" o.c. Btm.

22-AF 501 @ 11" o.c. Top & Btm.

22-AF 501 @ 11" o.c. Top & Btm.

20'-0"

FOOTING PLAN
Scale: None

Abutment Main Wall

El. 269.0

El. 266.0

El. 256.0

Backfill With Stone See Job Special Provision "Stone Backfill"

6'-0" 6'-0" 5'-0" 20'-0" 5'-0"

DETAIL FOR BACKFILL
Scale: None

BRIDGE ENGINEER

SHEET 1 OF 1
DETAILS OF SOUTH ABUTMENT
I-30 OVER 17TH. ST. WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: DEH/MJS DATE: 5-79
CHECKED BY: TRH DATE: 6-79
DESIGNED BY: [illegible] DATE: 5-79
SCALE: As Shown

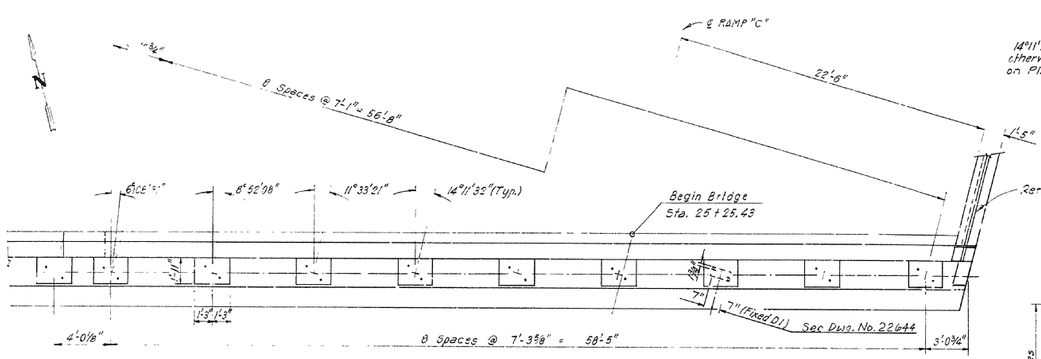
BRIDGE NO. 3397 AW & BW DRAWING NO. 22646

FOR INFORMATION ONLY

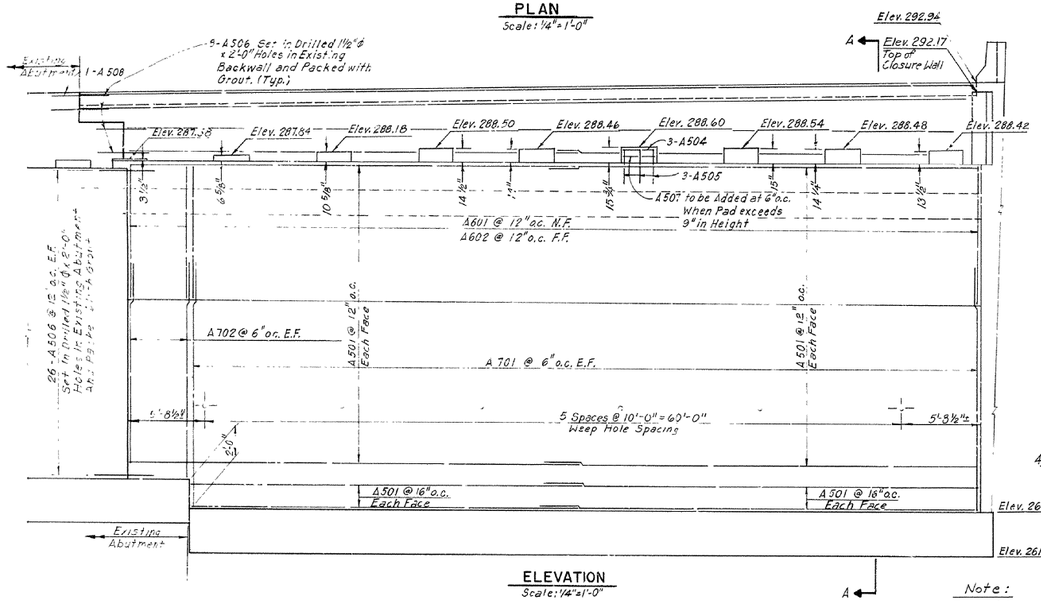
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	38	123
				(1) SITE NO. 3 - FOR INFORMATION ONLY				

23

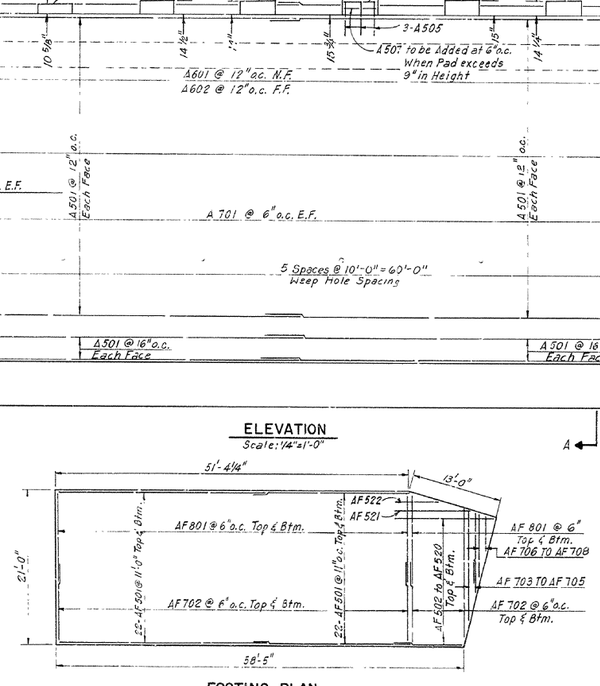
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	ID-630-2(154)140	92	184
				JOB NO.		60180	101	208
				(1) 3397 AW & BW		DETAIL N. ABUTMENT		22647



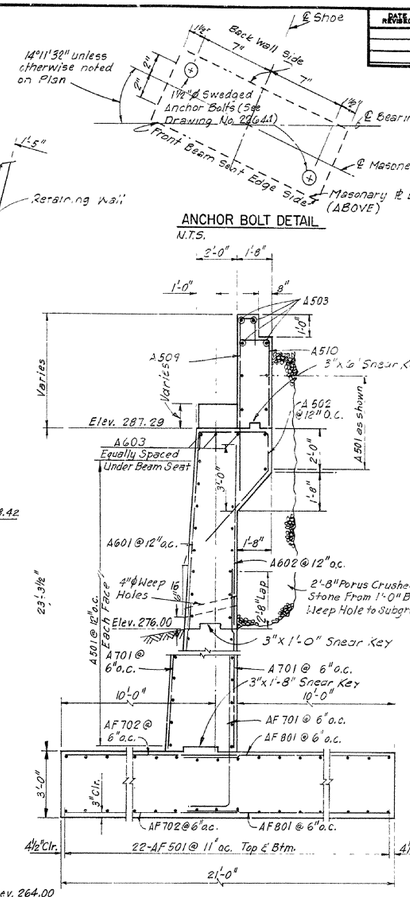
PLAN
Scale: 1/4" = 1'-0"



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



FOOTING PLAN
Scale: None



ANCHOR BOLT DETAIL
N.T.S.

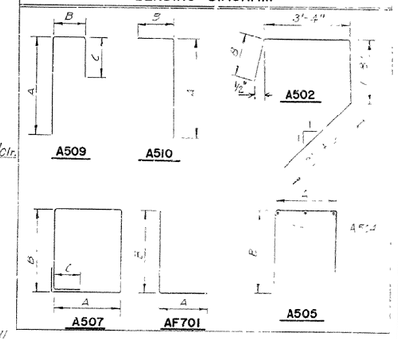
SECTION A-A
Scale: 3/8" = 1'-0"

Note:
Crushed Stone Backfill shall not be paid directly but shall be considered subsidiary to the items "Unclassified Excavation for Structures, Bridges".

REINFORCEMENT SCHEDULE

MARK	NO.	LENGTH	PIN DIA.	DIMENSION A	B	C
A431 *	30	6'-0"	#4			
A402 *	6	4'-9½"	#4			
A403 *	2	6'-8"	#5			
A434 *	2	24'6"	#4			
A501	96	29'-6½"	#4			
A502	63	7'-10"	#4			
A503	8	33'-2½"	#4			
A504	84	2'-2"	#4			
A505	24	5'-11½"	#6	1'-7"	5'-0"	11"
A506	51	4'-0"	#4			
A507	16	8'-7"	#6			
A508	9	29'-7"	#4			
A509	63	11'-6½"	#6	3'-3"	9"	3'-3"
A510	63	6'-3½"	#6	2'-6"	1'-4"	
A601	63	1'-1½"	#4			
A602	63	10'-7½"	#4			
A603	6	31'-11'8"	#4			
A701	252	14'-8"	#4			
A702	18	12'-8"	#4			
AF 501	92	30'-5"	#4			
AF 502 to AF 520	2 ea.	21'-11" 23'-5"	#4			
AF 521	2	11'-9"	#4			
AF 522	2	7'-10"	#4			
AF 523	24	5'-0"	#4			
AF 701	126	41'-1"	#6	5'-4"	21'-0"	5'-3½"
AF 702	210	5'-5"	#4			
AF 703 to AF 705	247	10'-5" 10'-6" 6'-6"	#4			
AF 706 to AF 708	289	10'-0" 7'-7" 5'-10"	#4			
AF 801	237	11'-1½"	#4			

BENDING DIAGRAM



*See Wing Wall Elev. Dwg No. SSC of 3.
**N.A. = Not Applicable

SHEET 1 OF 2

DETAILS OF NORTH ABUTMENT
I 30 OVER 17TH ST. WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: J.S.V. DATE: 6-79
CHECKED BY: W.N.A. DATE: 6-79
DESIGNED BY: L.B.H. DATE: 6-79
SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 3397 AW & BW DRAWING NO. 22647

FOR INFORMATION ONLY

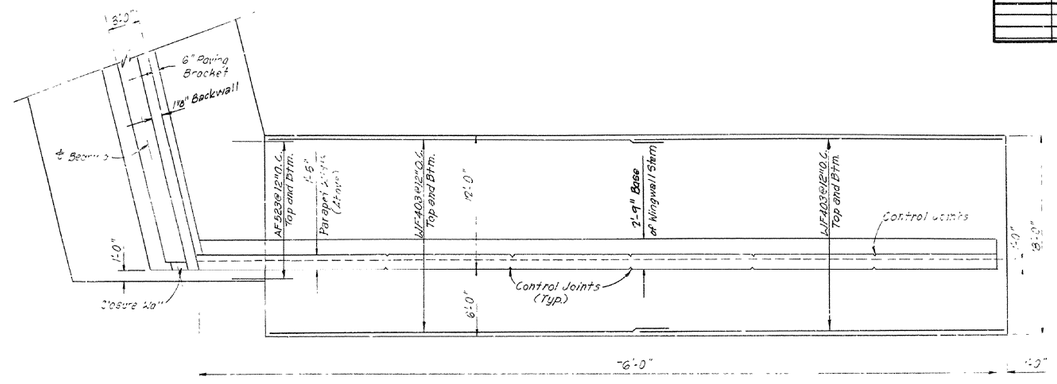
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	39	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

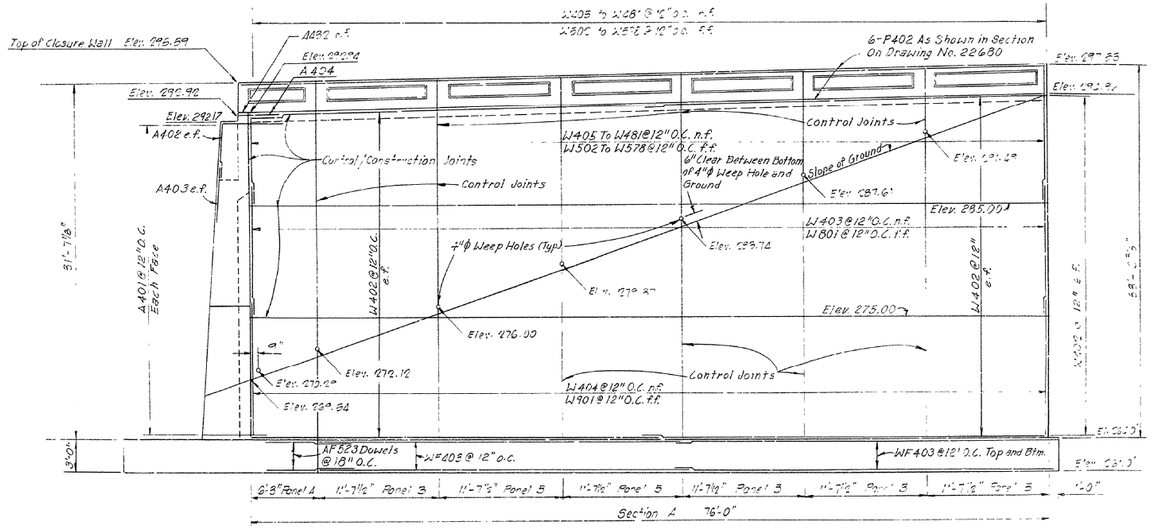
296

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	[illegible]	93	184
				JOB NO		60180	102	208

(1) 3397 AW & BW DTLS OF N. ABUT. 22648



PLAN
Scale: 3/16" = 1'-0"

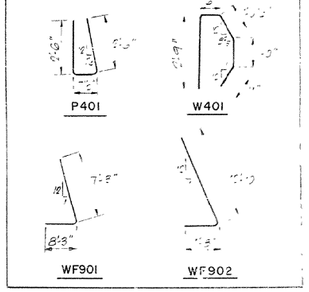


ELEVATION
Scale: 3/16" = 1'-0"

EAST WINGWALL

MARK NO.	LENGTH	PIN DIA.	MARK NO.	LENGTH	PIN DIA.
W401	82	3'-0½"	6"	P401	8'-1"	5"
W402	106	55'-8"	5"	P402	42'-0"	5"
W405	77	11'-8"	5"			
W421	77	10'-8"	5"			
W405 to W481	120	1'-0" to 6'-8"	5"			
W450	77	4'-8"	5"			
W502 to W578	120	1'-0" to 6'-8"	5"			
W801	77	12'-1½"	5"			
W901	77	15'-0½"	5"			
W501	82	4'-8½"	5"			
W503	77	7'-5½"	5"			
W505	58	23'-0½"	5"			
W580	77	11'-8"	5"			
W590	77	5'-5"	6"			
W599	76	4'-5"	6"			

BENDING DIAGRAM



EAST WINGWALL

TOP OF FOOTING ELEVATION	WINGWALL PANEL	REFERENCE SECTION	F	T	H	TOTAL LENGTH	S	a bars HEEL STEEL MARK	a bars HEEL STEEL SPACING	b bars TOE & STEM ST'L	b bars TOE & STEM ST'L SPACING	c bars STEM STEEL	c bars STEM STEEL SPACING	d bars DOWELS	d bars DOWELS SPACING	e bars STEM & STEEL	e bars STEM & STEEL SPACING	f bars	f bars SPACING	g bars FOOTING STEEL	g bars FOOTING STEEL SPACING	h bars FOOTING STEEL	h bars FOOTING STEEL SPACING
282.0'	1	1	Wingwall keyed to Abutment Ftg				2'-9"	None		W901 @ 12" O.C. Alternating with W902 @ 12" O.C.		W901	12" O.C.	W501	12" O.C.	W801	12" O.C.	W502 to W578	12" O.C.	None		None	
262.0'	2	2	3'-0"	6'-0"	12'-0"	18'-0"	2'-9"	#8 @ 6" O.C.		W901 @ 12" O.C. Alternating with W902 @ 12" O.C.		W901	12" O.C.	W501	12" O.C.	W801	12" O.C.			W403	12" O.C.	W402	12" O.C.

*For Reference Section Details See Drawing No. 22643

LEGEND
n.f. = near face
f.f. = far face
e.f. = each face

SHEET 2 OF 2
DETAILS OF NORTH ABUTMENT
EAST WINGWALL
I-30 OVER 17TH ST. WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: SBS DATE: 3-73
CHECKED BY: TSH DATE: 3-73
DESIGNED BY: JDT DATE: 3-73
SCALE: As noted

BRIDGE NO. 3397 AW & BW DRAWING NO. 22648

BRIDGE ENGINEER

FOR INFORMATION ONLY

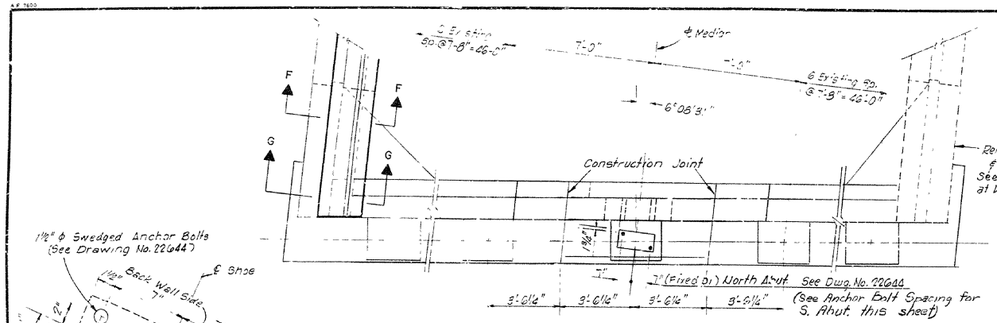
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	40	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

237

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-30(30)2,541(2)	74	184
				JOB NO.		60180	103	208

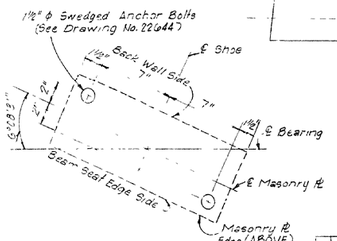
(1) 3395 AW/BW ABUTMENT DETAILS 22649



PLAN

NORTH ABUTMENT SHOWN - SOUTH ABUTMENT SIMILAR

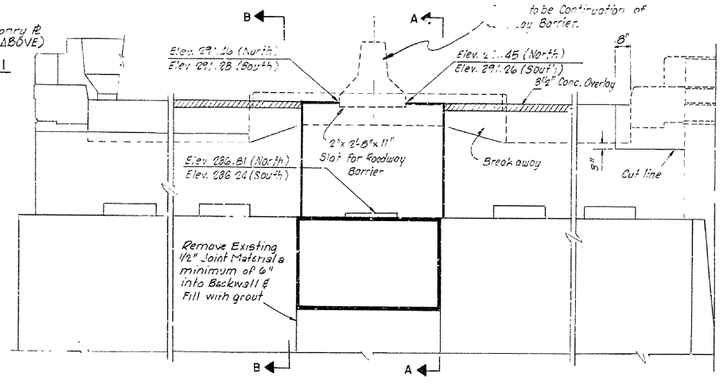
Scale: 3/8" = 1'-0"



ANCHOR BOLT SPACING - FIXED D 1

N.T.S.

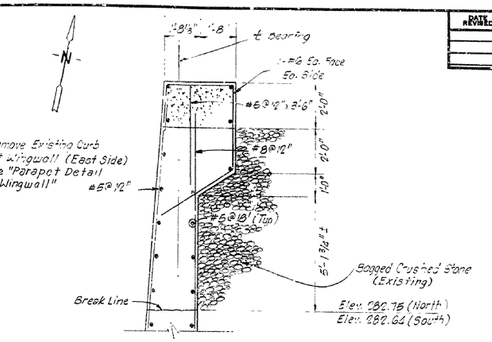
NOTE
See Drawing 22644 for Anchor Bolt Details, and Shoe Details.



ELEVATION

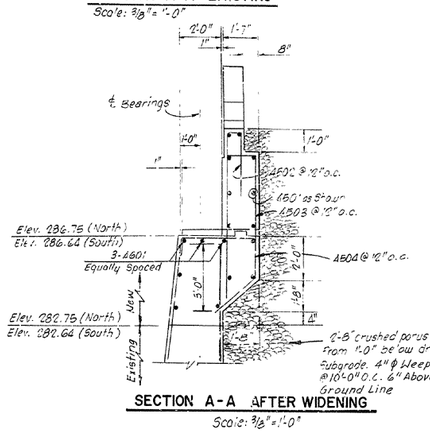
NORTH ABUTMENT SHOWN - SOUTH ABUTMENT SIMILAR

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



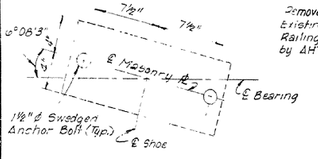
SECTION A-A EXISTING

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



SECTION A-A AFTER WIDENING

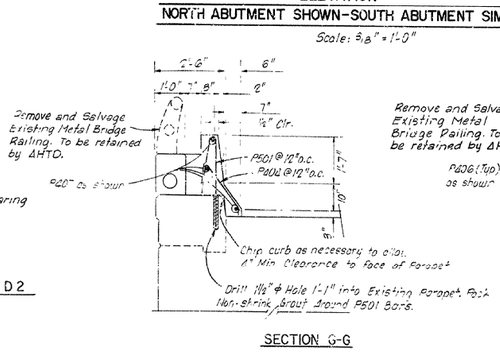
Scale: 3/8" = 1'-0"



ANCHOR BOLT SPACING - EXPANSION D 2

I.T.S.

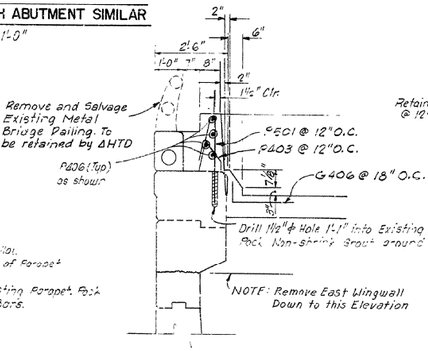
NOTES:
See Drawing 22644 for Bolt Length and Embedment
See Drawing 22651 for Shoe Details
See Drawing 22653 for location of Shoe



SECTION G-G

PARAPET DETAIL AT BACKWALL

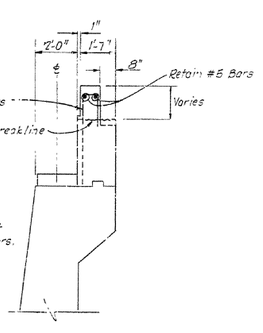
Scale: 1 1/2" = 1'-0"



SECTION F-F

PARAPET DETAIL AT WINGWALL

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



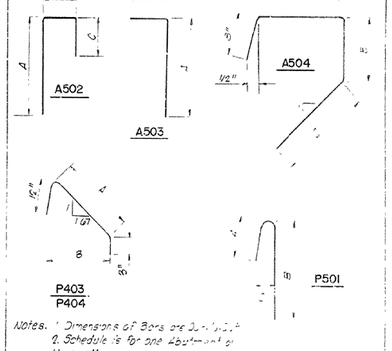
SECTION B-B

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

REINFORCEMENT SCHEDULE

	MARK	NO.	LENGTH	PIN DIA.	DIMENSIONS A	B	C	
COMMON TO NORTH AND SOUTH ABUTMENT	A501	12	6'-8 1/2"	St.				
	A502	8	0'-8 1/2"	0 1/2"	0'-7"	-"	0'-0"	
	A503	8	5'-6"	0 1/2"	6'-4"	1'-8"	*1'-4"	
	A504	8	1'-0"	2"	8'-4"	8"	2'-4"	
	A601	3	3'-8 1/2"	St.				
COMMON TO NORTH AND SOUTH WEST WINGWALL	P203	38	0'-1"	0"	0"	0'-1"	*1'-1"	
	P204	2	5'-0"	2"	1'-9"	1'-8 1/2"	*1'-1"	
	P205	3	36'-8"	St.				
	P206	6	0'-9 1/2"	St.				
	P501	38	5'-0"	0 1/2"	5'-0"	5'-0"	-"	

BENDING DIAGRAM



SHEET 1 OF 1

ABUTMENT DETAILS - WIDENED SECTIONS
I-30 OVER 17TH ST. WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: J.R.D. DATE: 6-79
CHECKED BY: T.B.H. DATE: 6-79
DESIGNED BY: T.B.H. DATE: 6-79
SCALE: As Noted

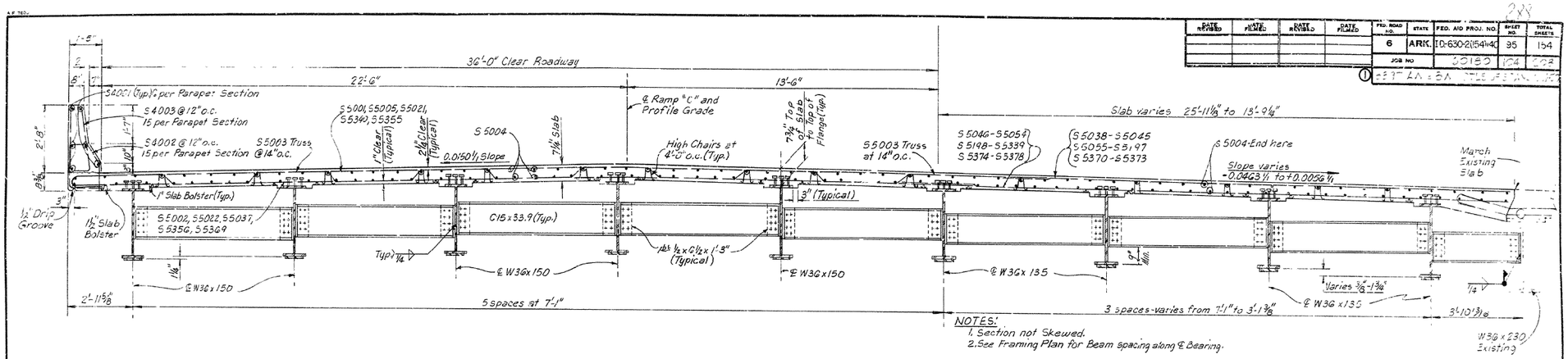
BRIDGE NO. 3395 AW & BW DRAWING NO. 22649

BRIDGE ENGINEER

FOR INFORMATION ONLY

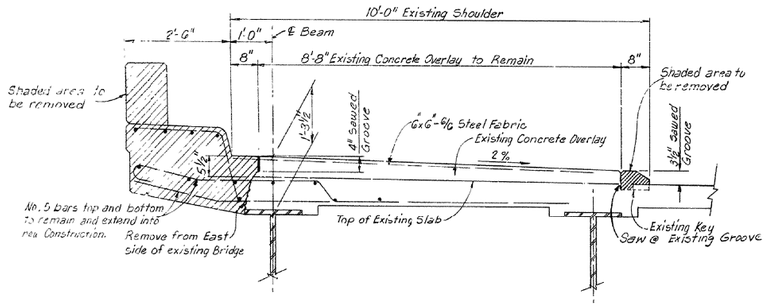
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	41	123

(1) SITE NO. 3 - FOR INFORMATION ONLY

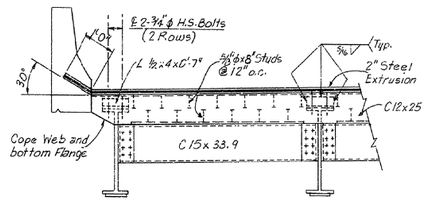


NOTES:
1. Section not Skewed.
2. See Framing Plan for Beam spacing along ℄ Bearing.

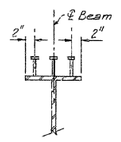
SECTION AT MID SPAN (LOOKING AHEAD ALONG RAMP C)
Scale: ½" = 1'-0"



EXISTING BRIDGE (LOOKING AHEAD ALONG RAMP C)
Scale: ¾" 1'-0"



PARTIAL SECTION AT EXPANSION DEVICE
NEW ADDITION
Scale: ½" = 1'-0"



STUD SHEAR CONNECTOR DETAIL
Scale: 1" = 1'-0"

NOTES:
1. Boiled Linseed Oil Treatment shall be applied to the Roadway Surface and the Face and Top of Parapet Rail (this includes the New Overlay of Bridge).
2. Stud Shear Connectors shown shall be granular flux filled, Solid Fluxed or Equal, and Automatically End Welded to Beam Flanges in accordance with Recommendations of the Manufacturer.
3. For Details of Fixed Shoes See Dwg No 22644.
   For Details of Expansion Shoes see:
   D-1 Type - Dwg No 22644
   D-2 Type - Dwg No 22651
4. See Drawing No. 22640 for Details of New and Existing Bridge Sections.
5. For parapet details see Drawing No 22650.

SHEET 1 OF 4

DETAILS OF SPANS

I-30 OVER 17TH ST. WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CHF DATE: 2-72
CHECKED BY: TBM DATE: 2-72
DESIGNED BY: CPH DATE: 9-71
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 3397 AW & BW DRAWING NO. 22650

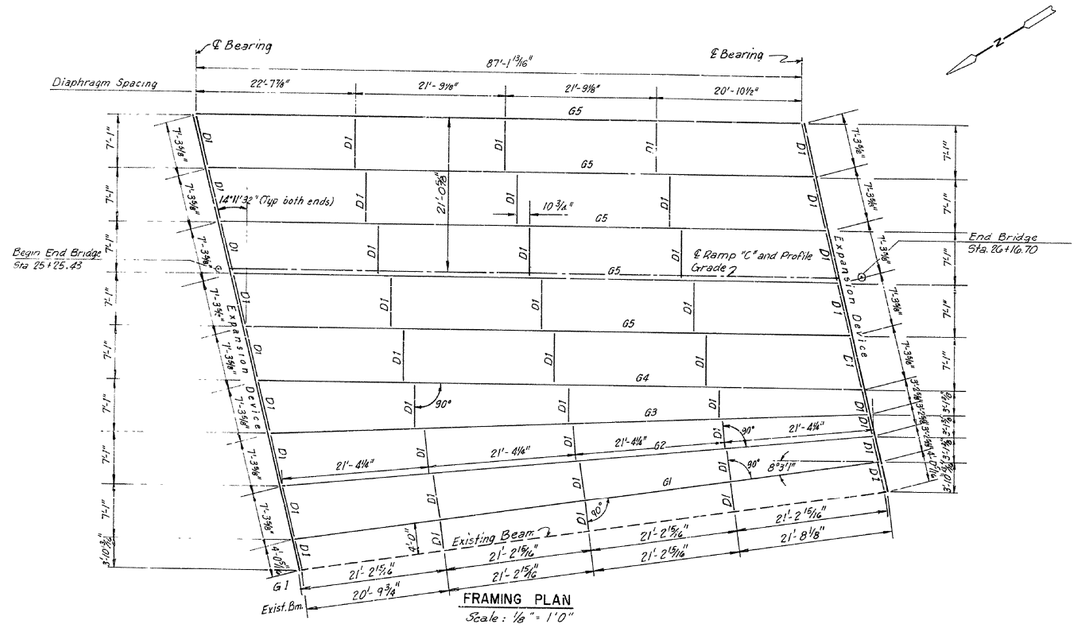
FOR INFORMATION ONLY

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.		061783	42	123

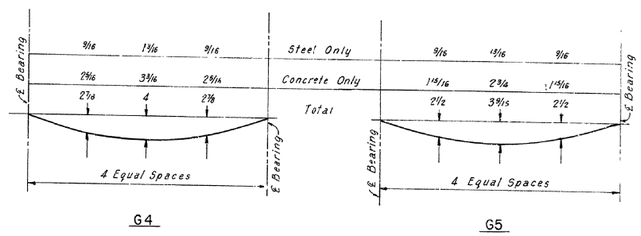
(1) SITE NO. 3 - FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJECT NO.	NO. SHEET	TOTAL SHEETS
				6	ARK	ID-630-2(154)140	96	184
				JOB NO.		60180	105	208

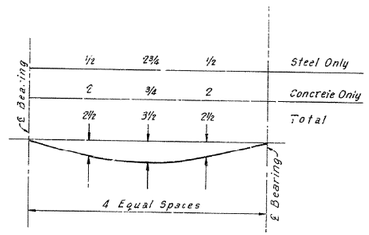
(1) 3397 AW/BW DETAILS OF SPANS 22651



FRAMING PLAN
Scale: 1/8" = 1'0"

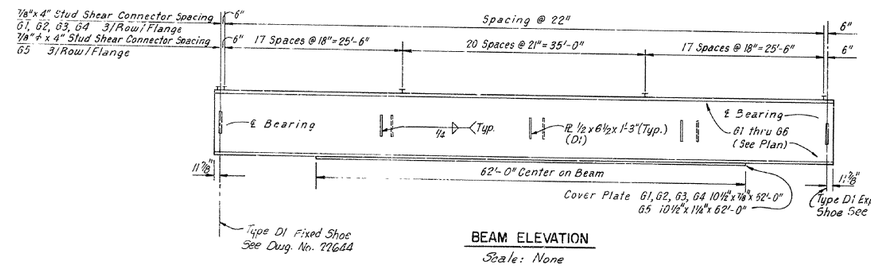


G4 G5



G1, G2, G3

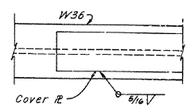
DEAD LOAD DEFLECTION DIAGRAMS
Scale: None



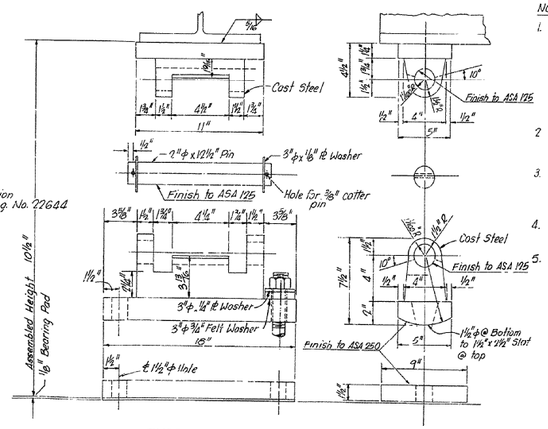
BEAM ELEVATION
Scale: None

BEAM SCHEDULE			
MARK	BEAM	LENGTH	COVER PLATE
G1	W36 x 135 A572 Gr-50	64'-11 3/4"	10 1/2 x 1/8 x 62'-0" A572 Gr 50
G2	W36 x 135 A572 Gr 50	85'-6 1/8"	10 1/2 x 7/8 x 62'-0" A572 Gr 50
G3	W36 x 135 A572 Gr 50	86'-2 7/8"	11 1/2 x 7/8 x 62'-0" A572 Gr 50
G4	W36 x 135 A572 Gr 50	87'-1 3/16"	10 1/2 x 7/8 x 62'-0" A572 Gr 50
G5	W35 x 150 A572 Gr 50	87'-1 3/16"	10 1/2 x 1 1/4 x 62'-0" A572 Gr 50

NOTE: Beam lengths are from ℄ Bearing to ℄ Bearing.



COVER PLATE DETAILS
Scale: None



TYPE D2 EXPANSION SHOE
Scale: None

NOTES:

1. Stud shear connectors shown shall be 4" long, granular flux filled, solid fluxed or equal and automatically end welded to girder flanges in accordance with recommendations of the manufacturer. 3/4" diameter studs may be substituted for the 7/8" diameter studs shown at the ratio of 1.37 - 3/4" studs in place 1 - 7/8" stud. The 7/8" studs shall be used as the basis of payment of 81.0 lbs per one hundred studs.
2. Structural shapes of equal or greater strength may be substituted for the shapes shown. Payment will be on the basis of the shapes shown.
3. Camber girders as required for Dead Load Deflection and vertical curve correction. Acceptable tolerance is ±1/4". Vary slab haunch to allow for difference between computed and actual camber
4. Structural Steel in beams and cover plates shall be ASTM A572 Gr 50 All other structural steel shall be A36
5. For expansion joint details see Drawing No. 22660.

SHEET 2 OF 4
DETAILS OF SPANS

I-30 OVER 17TH ST. WIDENING

PULASKI COUNTY
INT. ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK

DRAWN BY C.M.F. DATE 8-75
CHECKED BY T.B.H DATE 6-79
DESIGNED BY T.B.H DATE 8-75 SCALE As Noted

BRIDGE NO. 3397 AW & BW DRAWING NO. 22651

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

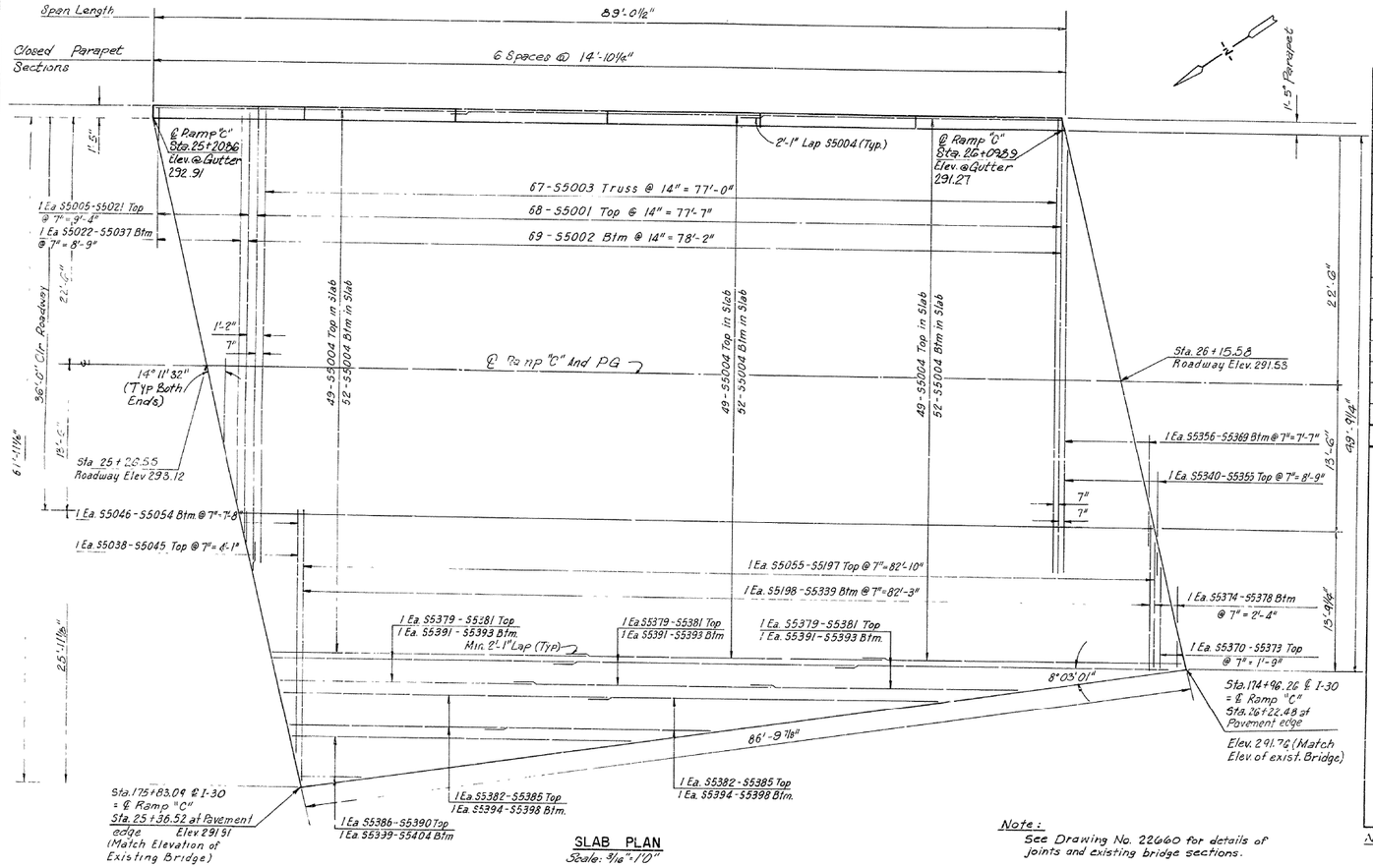
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	43	123

① SITE NO. 3 - FOR INFORMATION ONLY

NOTE: For Reinforcing In Parapet See Drawing No. 22653 "Details of Spans"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT NO.	NO. SHEET	TOTAL SHEETS
6	ARK	I-D-630-2(15)140	97	184
JOB NO.		60180	106	208
① 3397 AW & BW		DTLS. OF SPANS		22652



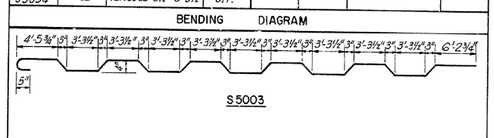
SLAB PLAN
Scale: 3/16" = 1'0"

Note:
See Drawing No. 22660 for details of joints and existing bridge sections.

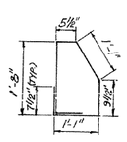
REINFORCING SCHEDULE

MARK	NO.	LENGTH	PIN DIA	MARK	NO.	LENGTH	PIN DIA
S4001	56	14'-5½"	5 Str.	S5055 - S5197	1 Ea	Varies 2°-2.10" - 11° 41½"	5 Str.
S4002	90	5'-10½"	2"	S5136 - S5339	1 Ea	Varies 2°-2.8" - 13°-11½"	5 Str.
S4003	90	5'-5½"	2"	S5340 - S5355	1 Ea	Varies 36°-6½" - 1°-9"	5 Str.
				S5356 - S5369	1 Ea	Varies 31'-11½" - 1°-9½"	5 Str.
				S5370 - S5373	1 Ea.	Varies 10'-5" - 3'-2½"	5 Str.
				S5374 - S5378	1 Ea	Varies 11'-4½" - 3'-2½"	5 Str.
				S5379 - S5381	3 Ea	Varies 31'-3" - 26'-4½"	5 Str.
S5001	68	41'-4½"	5 Str.	S5382 - S5385	2 Ea	Varies 34.9° - 23'-9"	5 Str.
S5002	69	39'-3½"	5 Str.	S5386 - S5390	1 Ea	Varies 37'-9½" - 8'-6"	5 Str.
S5003	67	44'-5½"	3 3/4"	S5391 - S5399	3 Ea	Varies 31'-0½" - 27'-0"	5 Str.
S5004	303	30'-11½"	5 Str.	S5394 - S5398	2 Ea	Varies 31'-0" - 25'-0"	5 Str.
S5005 - S5021	1 Ea	Varies 40'-9½" - 3'-9½"	5 Str.	S5399 - S5404	1 Ea	Varies 39'-5½" - 8'-10"	5 Str.
S5022 - S5037	1 Ea	Varies 38'-5½" - 3'-8"	5 Str.				
S5038 - S5045	1 Ea	Varies 13'-6½" - 3'-3½"	5 Str.				
S5046 - S5054	1 Ea	Varies 22'-0½" - 3'-5½"	5 Str.				

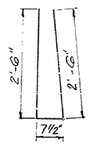
BENDING DIAGRAM



S5003



S 4002



S 4003

NOTE: Dimensions of bars are Out to Out.

SHEET 3 OF 4

DETAILS OF SPANS

I-30 OVER 17TH ST. WIDENING

PULASKI COUNTY

INT. ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY G.S.B. DATE 4-75

CHECKED BY T.B.H. DATE 5-79

DESIGNED BY T.B.H. DATE 9-75 SCALE As Noted

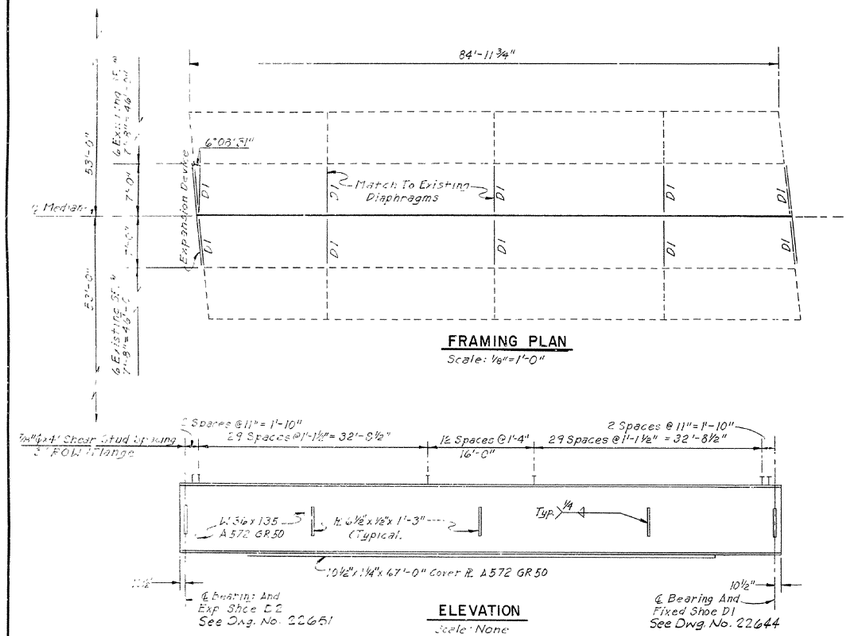
BRIDGE NO. 3397 AW & BW DRAWING NO. 22652

FOR INFORMATION ONLY

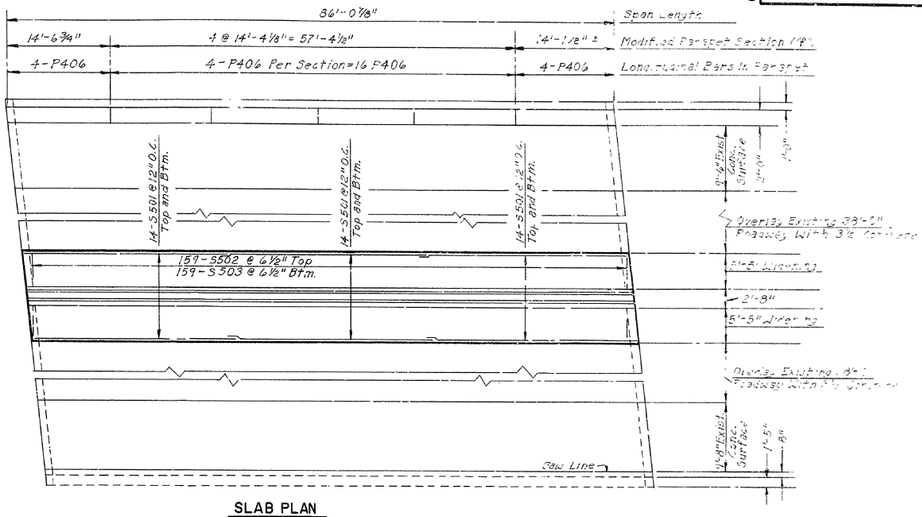
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	44	123
				(1)	SITE NO. 3 - FOR INFORMATION ONLY			

A.F. 7600

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I.D:630-2(34)140	98	184
				JOB NO.		60180	107	208
				(1)	3397 AW&BW DTLS. OF SPANS			22653

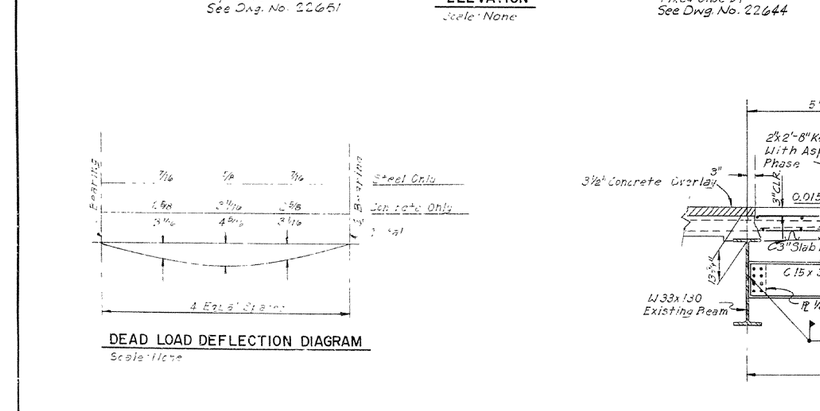


FRAMING PLAN
Scale: 1/8"=1'-0"

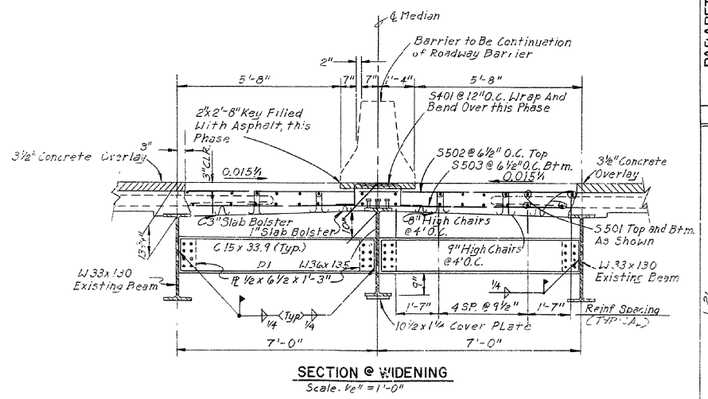


SLAB PLAN
Scale: 1/8"=1'-0"

DEAD LOAD DEFLECTION DIAGRAM
Scale: 1/16"=1'-0"



ELEVATION
Scale: None

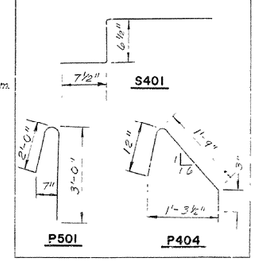


SECTION @ WIDENING
Scale: 1/2"=1'-0"

REINFORCEMENT SCHEDULE

	MARK	NO.	LENGTH	PIN STA
SLAB	S501	84	30'-0"	STR.
	S502	159	13'-2"	STR.
	S503	159	12'-8"	STR.
	S401	174	2'-7"	2"
PARAPET	P404	90	3'-0"	2"
	P406	24	14'-0"	STR
	P501	90	5'-0"	2 1/2"

BENDING DIAGRAM



Note :
See Drawing No. 22660 for details of joints and existing bridge sections.

SHEET 4 OF 4
DETAILS OF SPANS

1-30 OVER 17 TH. ST. WIDENING

PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: MJB DATE: 5-79
CHECKED BY: TBH DATE: 5-79
DESIGNED BY: TBH DATE: 5-79
SCALE: AS NOTED

BRIDGE ENGINEER

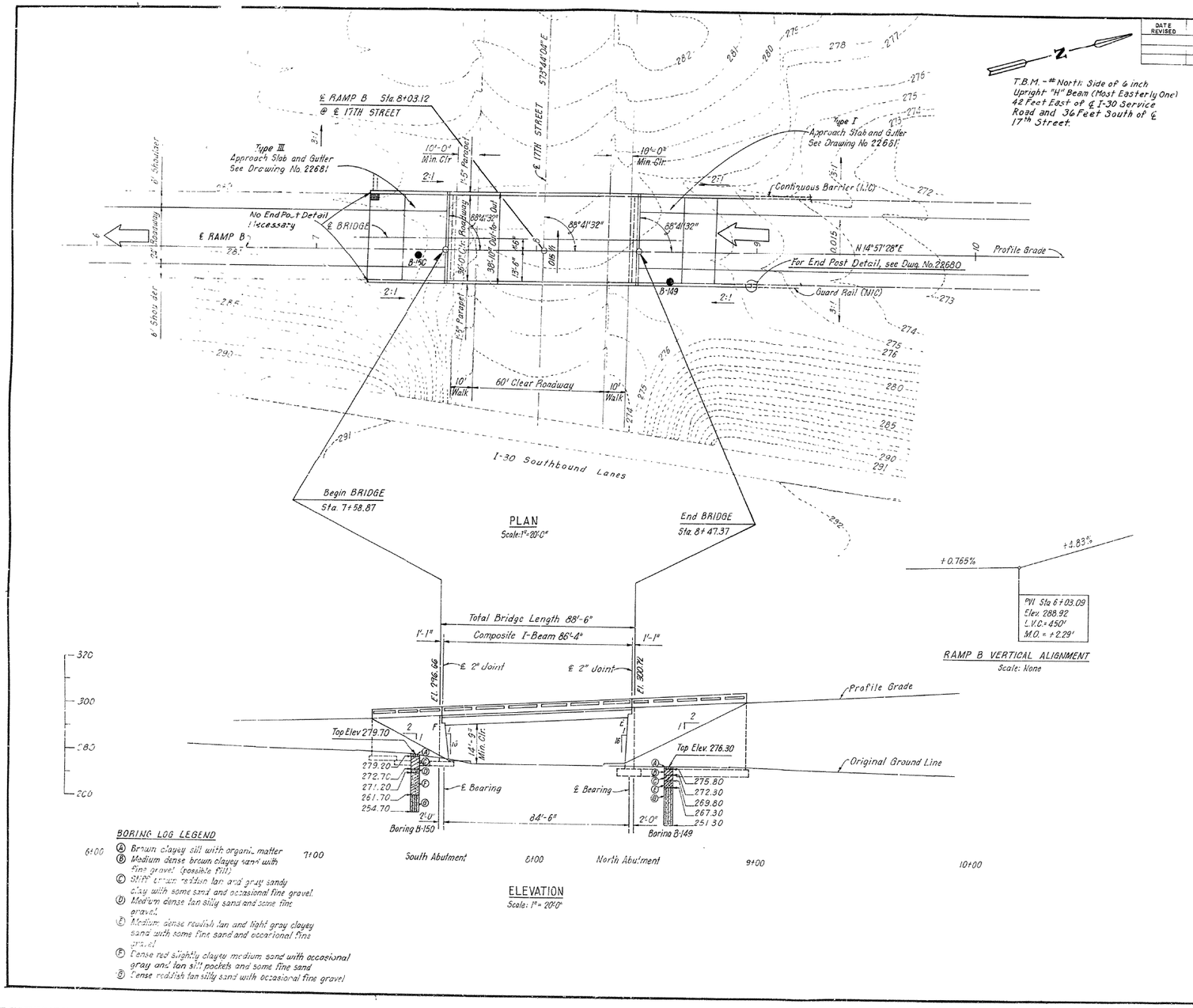
BRIDGE NO. 3397 AW & BW DRAWING NO. 22653

FOR INFORMATION ONLY

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.		061783	45	123

(1) SITE NO. 4 - FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJECT NO.	NO. SHEET	TOTAL SHEETS
				6	ARK.	ID-630-2(64)140	81	184
				JOB NO.		60180	90	208
				(1) 3397C LAYOUT				22636



T.B.M. - # North Side of 6 inch Upright "H" Beam (Most Easterly One) 42 Feet East of ℄ I-30 Service Road and 36 Feet South of ℄ 17th Street.

NOTE:
Bridge Elevations Refer to Profile Grade Elevations Ramp B.

BORING LOG LEGEND

(A) Brown clayey silt with organic matter
(B) Medium dense brown clayey sand with fine gravel (possible fill)
(C) Stiff brown reddish tan and gray sandy clay with some sand and occasional fine gravel.
(D) Medium dense tan silty sand and some fine gravel.
(E) Medium dense reddish tan and light gray clayey sand with some fine sand and occasional fine gravel
(F) Dense red slightly clayey medium sand with occasional gray and tan silt pockets and some fine sand
(G) Dense reddish tan silty sand with occasional fine gravel

Design Specifications: AASHTO Standard Specifications of 1977 and Interim Specifications of 1978.

Live Loadings: HS20 and Interstate Loadings
Method of Design. Load Factor

Unit Stresses:

Class S(AE) Concrete	f'_c =	3,500 psi
Class S Concrete	f'_c =	3,500 psi
Reinforcing Steel (Gr 60)	f_y =	60,000 psi
Structural Steel, A36	f_y =	36,000 psi
Structural Steel A572 Gr.50	f_y =	50,000 psi

LAYOUT OF
RAMP B OVER 17th. STREET

PULASKI COUNTY
INT. ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK

DRAWN BY O.S.B DATE 3-79
CHECKED BY T.B.H DATE 4-79
DESIGNED BY P.D.F DATE 2-79 SCALE

BRIDGE NO. J397C DRAWING NO. 22636

FOR INFORMATION ONLY

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.		061783	46	123

(1) SITE NO. 4 - FOR INFORMATION ONLY

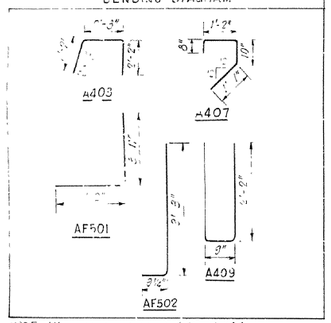
A.E. 7657

REINFORCEMENT SCHEDULE

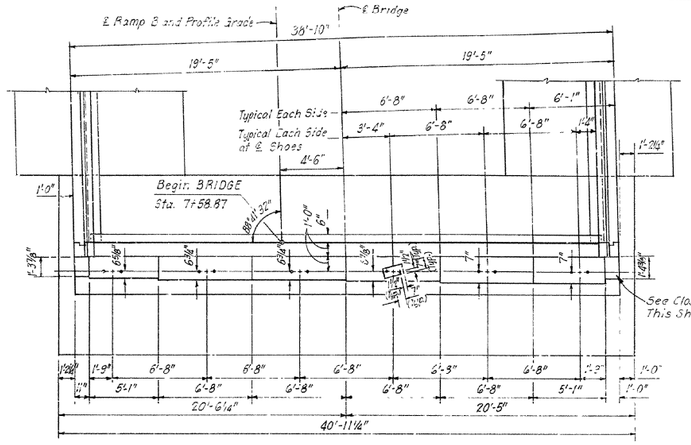
SOUTH ABUTMENT

MARK	NO.	LENGTH	BAR SIZE	MARK	NO.	LENGTH	BAR SIZE
A401	15	11'-5"	#4	AF402	15	23'-7"	#4
A402	40	11'-10"	#4	AF402	40	7'-8"	#4
A403	38	6'-1"	#4	AF403	40	3'-0"	#4
A404	40	5'-5"	#4	AF404	28	11'-8"	#4
A405	40	4'-8"	#4				
A406	21	38'-8"	#4	AF501	41	11'-0"	#4
A407	37	4'-11"	#4	AF502	40	8'-11"	#4
A408	40	3'-11"	#4	AF601	41	5'-11"	#4
A409	6	11'-0"	#4	AF602	16	5'-0"	#4
A410	6	4'-7"	#4				
A501	41	2'-8"	#4				
A601	6	15'-1"	#4				
A602	8	3'-2"	#4				

BENDING DIAGRAM

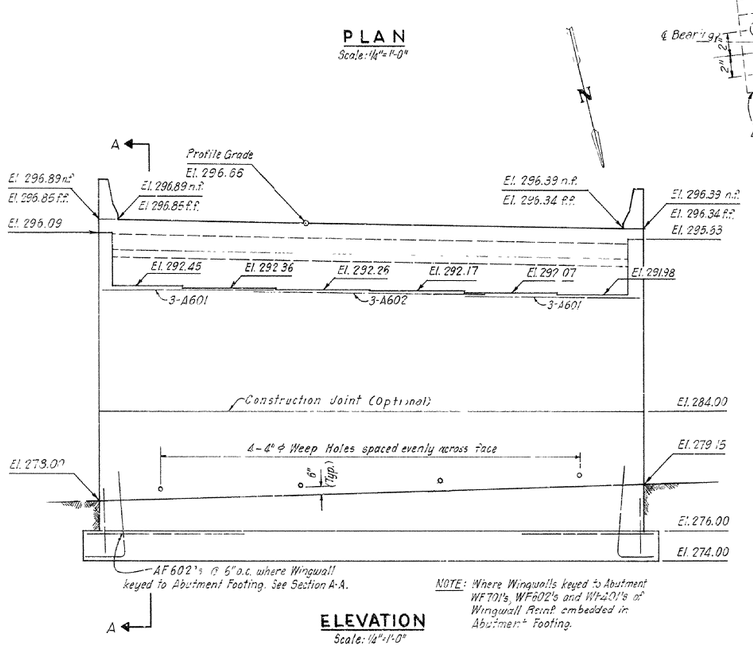


NOTE: All dimensions are out to out of bars.



PLAN

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



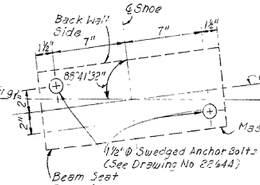
NOTE: Where Wingwalls keyed to Abutment WF701's, WF602's and WF401's at Wingwall Reinf. embedded in Abutment Footing.

ELEVATION

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

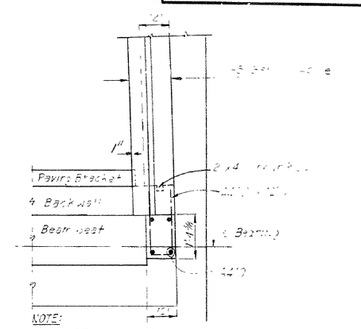
SOIL PRESSURES

Maximum Toe Pressure (D.L. & L.L.)	3[illegible] p.s.f.
Minimum Heel Pressure (D.L.)	1574 p.s.f.
Allowable Base Pressure	4500 p.s.f.



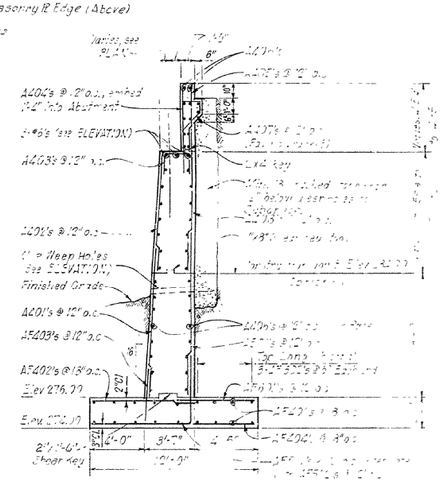
ANCHOR BOLT DETAIL

N.T.S.



REINFORCING PLAN

WEST END - CLOSURE WALL



SECTION A-A

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

NOTE: Crushed stone backfill shall not be paid for directly but shall be subsidiary to the item "Structural Excavation for Structures, Bridges"

SHEET 1 OF 2

DETAILS OF SOUTH ABUTMENT
RAMP B OVER 17th. STREET

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: [illegible] DATE: [illegible]
CHECKED BY: F.S.H. DATE: [illegible]
DESIGNED BY: [illegible] DATE: [illegible]

SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 3397C **DRAWING NO. 22637**

FOR INFORMATION ONLY

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.		061783	47	123
				(1)		SITE NO. 4 - FOR INFORMATION ONLY		

REINFORCEMENT SCHEDULE

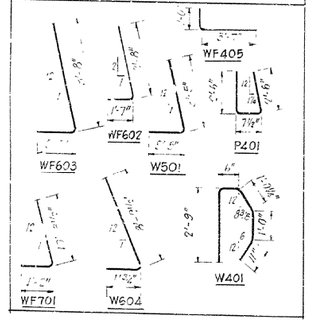
WEST WINGWALL

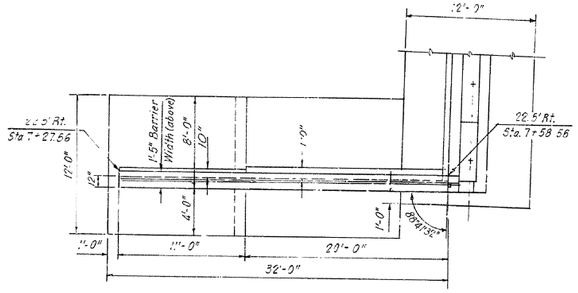
MARK	NO.	LENGTH	PIN DIA.	MARK	NO.	LENGTH	PIN DIA.
W401	33	2'-0"	2"	WF401	82	3'-0"	6#r
W402	12	11'-3"	6#r	WF402	12	10'-1"	6#r
W403	10	13'-6"	6#r	WF403	4	11'-6"	6#r
W404	23	Varies	6#r	WF404	19	6'-0"	6#r
W435	23	23'-6 3/4"	6#r	WF405	14	5'-6"	2"
W436	22	12'-11"	6#r	WF406	6	11'-6"	6#r
W437	28	12'-6"	6#r				
W438	14	5'-8"	6#r	WF501	11	5'-0"	3/4"
W439	14	19'-0 3/4"	6#r				
W440	152	4'-8"	6#r	WF601	52	7'-9"	6#r
				WF602	4	5'-1"	3/4"
W470	91	4'-4"	6#r	WF603	16	9'-1"	3/4"
W501	11	12'-7"	6#r	WF604	12	7'-9"	3/4"
W502	10	12'-7"	6#r	WF701	21	11'-3"	6#r
				P401	93	3'-2 1/2"	2"
				P402	6	3'-3"	6#r

EAST WINGWALL

MARK	NO.	LENGTH	PIN DIA.	MARK	NO.	LENGTH	PIN DIA.
W401	22	2'-0"	2"	WF401	82	3'-0"	6#r
W402	11	11'-3"	6#r	WF402	12	10'-1"	6#r
W403	10	13'-6"	6#r	WF403	4	11'-6"	6#r
W404	23	Varies	6#r	WF404	19	6'-0"	6#r
W435	23	23'-6 3/4"	6#r	WF405	14	5'-6"	2"
W436	22	12'-11"	6#r	WF406	6	11'-6"	6#r
W437	28	12'-6"	6#r				
W438	14	5'-8"	6#r	WF501	11	5'-0"	3/4"
W439	14	19'-0 3/4"	6#r				
W440	152	4'-8"	6#r	WF601	52	7'-9"	6#r
				WF602	4	5'-1"	3/4"
W470	91	4'-4"	6#r	WF603	16	9'-1"	3/4"
W501	11	12'-7"	6#r	WF604	12	7'-9"	3/4"
W502	10	12'-7"	6#r	WF701	21	11'-3"	6#r
				P401	93	3'-2 1/2"	2"
				P402	6	3'-3"	6#r

BENDING DIAGRAM





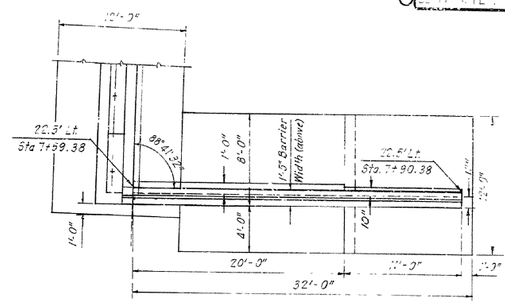
PLAN

Scale: 3/16"=1'-0"

NOTE:

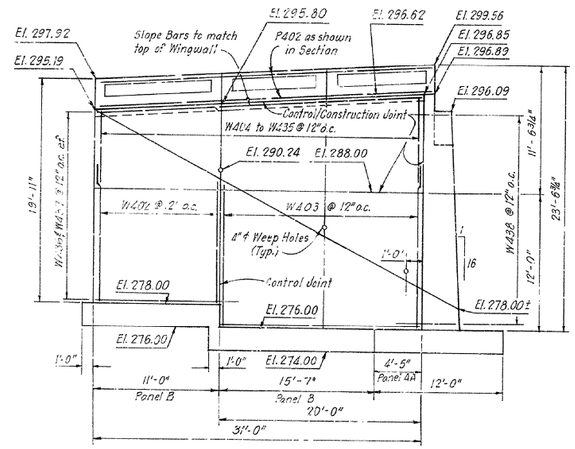
1) Where Wingwall keyed to Abutment WF701's, WF502's and WF401's of Wingwall Reinf. embedded in Abutment footing.

2) For Parapet Details see Drawing No 22680



PLAN

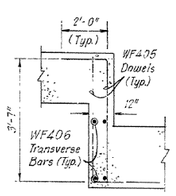
Scale: 3/16"=1'-0"



ELEVATION

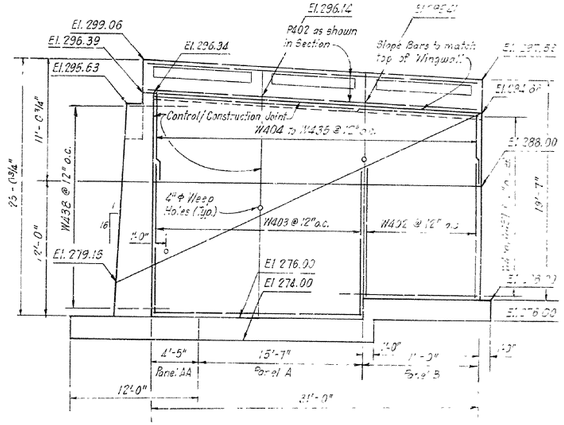
EAST WINGWALL

Scale: 3/16"=1'-0"



FOOTING STEP REINFORCEMENT DETAIL

Scale: None



ELEVATION

WEST WINGWALL

Scale: 3/16"=1'-0"

EAST AND WEST WINGWALLS

TOP OF FOOTING ELEVATION	WINGWALL PANEL	REFERENCE SECTION *	F	T	H	TOTAL LENGTH	S	a bars HEEL STEEL MARK	a bars HEEL STEEL SPACING	b bars TOE & STEM STEEL MARK	b bars TOE & STEM STEEL SPACING	c bars STEM STEEL MARK	c bars STEM STEEL SPACING	d bars DOWELS MARK	d bars DOWELS SPACING	e bars STEM STEEL MARK	e bars STEM STEEL SPACING	f bars FOOTING STEEL MARK	f bars FOOTING STEEL SPACING	h bars FOOTING STEEL MARK	h bars FOOTING STEEL SPACING
276.00	AA	*B	Wingwall Keyed to Abutment				2'-0"	None		WF 701's @ 12" o.c. Alternating with WF 502's @ 12" o.c.		W601	12" o.c.	W501	12" o.c.	W439 to W470	12" o.c.	None		None	
276.00	A	B	2'-0"	1'-0"	8'-0"	12'-0"	2'-0"	WF601	6" o.c.	WF 701's @ 12" o.c. Alternating with WF 603's @ 12" o.c.		W601	12" o.c.	W501	12" o.c.			WF402	1'-1" o.c.	WF404	12" o.c.
278.00	B	B	2'-0"	4'-0"	8'-0"	12'-0"	1'-10"	WF601	6" o.c.	WF 604's @ 12" o.c. Alternating with WF 501's @ 12" o.c.		W502	12" o.c.	W501	12" o.c.			WF402 & WF403	1'-8" o.c.	WF404	12" o.c.

* Applies to stem only.

* For Reference Section Details, see Drawing No 22643

SHEET 2 OF 2

DETAILS OF SOUTH ABUTMENT

RAMP B OVER 17th. STREET

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: SSB DATE:

CHECKED BY: DHS DATE:

DESIGNED BY: DHS DATE:

SCALE:

BRIDGE ENGINEER

BRIDGE NO. 3397C **DRAWING NO. 22638**

FOR INFORMATION ONLY

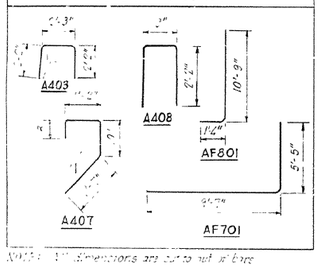
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	48	123

(I) SITE NO. 4 - FOR INFORMATION ONLY

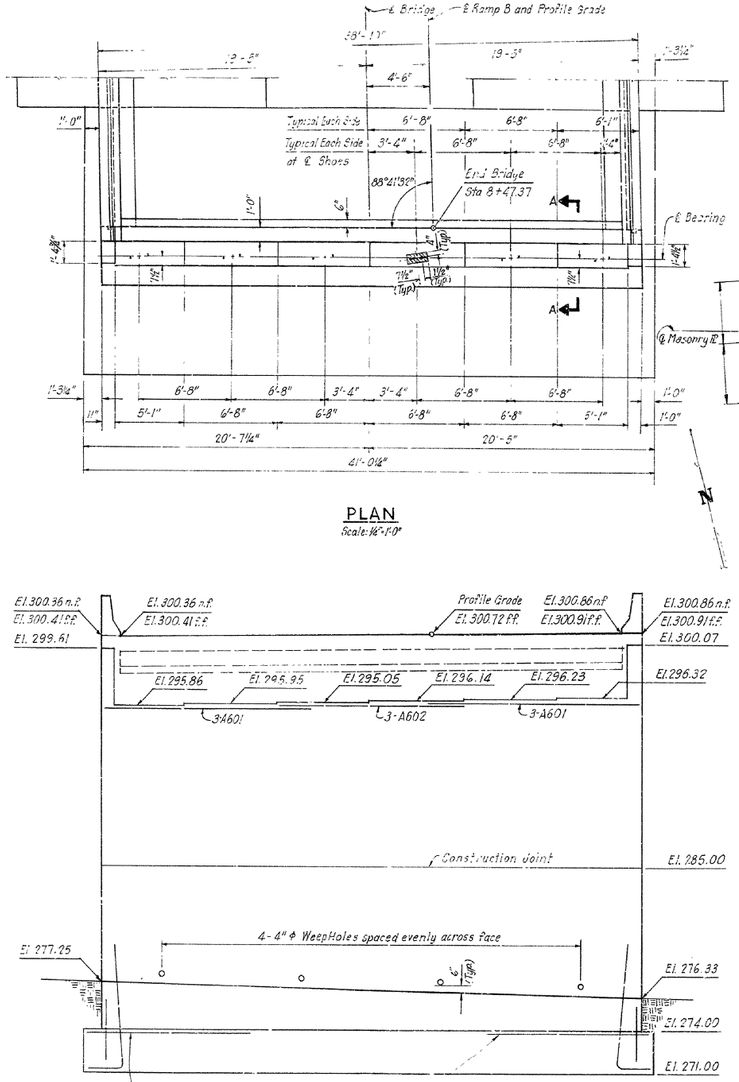
REINFORCEMENT SCHEDULE

MARK	NO.	LENGTH	FIN DIA.	MARK	NO.	LENGTH	FIN DIA.
A402	40	5'-8"	Str.	AF401	24	41'-6"	Str.
A403	40	5'-8"	Str.	AF402	28	5'-8"	Str.
A404	48	5'	6"	AF403	40	4'-0"	Str.
A405	40	5'-8"	Str.	AF404	28	17'-6"	Str.
A406	40	4'-8"	Str.				
A406	52	38'-5"	Str.	AF701	40	12'-10"	5/4"
A407	2	4'-1"	6"	AF702	41	9'-10"	Str.
A408	5	4'-1"	6"				
A410	8	4'-2"	Str.	AF801	38	111'-10 1/2"	6"
				AF802	58	10'-6"	Str.
A501	40	8'-0"	Str.				
A601	6	16'-1"	Str.				
A602	5	9'-2"	Str.				
A701	40	15'-2"	Str.				

BENDING DIAGRAM



NOTE: All dimensions are out to out of bars


figure_℄ Bridge
℄ Ramp B and Profile Grade
38'-1 1/2"
19'-5"
19'-5"
1'-3 1/2"
4'-6"
1'-0"
Typical Each Side
6'-8"
6'-8"
6'-8"
6'-1"
Typical Each Side of ℄ Shoes
3'-4"
6'-8"
6'-8"
4"
88°41'32"
End Bridge Sta 8+47.37
A
1'-0"
6"
1'-6 1/2"
℄ Bearing
2" (Typ.)
1 1/2"
7 1/4" (Typ.)
1 1/2" (Typ.)
1'-3 1/4"
6'-8"
6'-8"
3'-4"
3'-4"
6'-8"
6'-8"
1'-0"
11"
5'-1"
6'-8"
6'-8"
6'-8"
6'-8"
6'-8"
5'-1"
1'-0"
20'-7 1/4"
20'-5"
41'-0 1/4"
N
PLAN
Scale: 1/8"=1'-0"
El. 300.36 n.f.
El. 300.41 f.f.
El. 299.61
El. 300.36 n.f.
El. 300.41 f.f.
Profile Grade
El. 300.72 f.f.
El. 300.86 n.f.
El. 300.91 f.f.
El. 300.86 n.f.
El. 300.91 f.f.
El. 300.07
El. 295.86
El. 295.95
El. 295.05
El. 296.14
El. 296.23
El. 296.32
3-A601
3-A602
3-A601
Construction Joint
El. 285.00
4-4" ℄ WeepHoles spaced evenly across face
El. 277.25
6" (Typ.)
El. 276.33
El. 274.00
El. 271.00
Additional AF802's @ 12" o.c. where Wingwall keyed to Abutment Footing. See "SECTION A-A"
ELEVATION
Scale: 1/4"=1'-0"
NOTE:
Where Wingwall's keyed to Abutment WF802's, WF803's and WF401's of Wingwall Reinf. embedded in Abutment footing.

SOIL PRESSURES

Maximum Toe Pressure (D.L. + L.L.) 3564 p.s.f.
Minimum Heel Pressure (D.L.) 1757 p.s.f.
Allowable Base Pressure 4000 p.s.f.

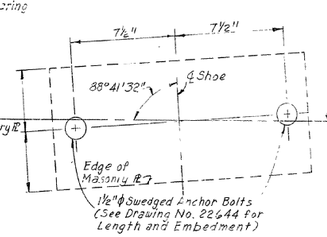
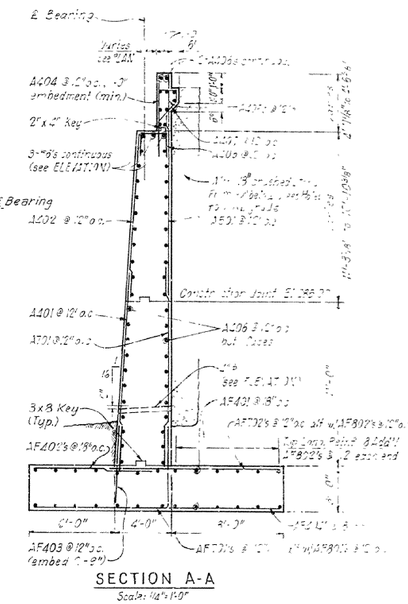


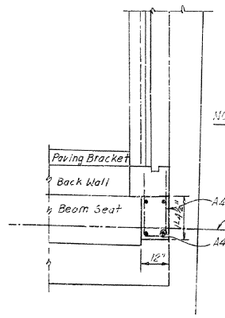
figure_7 1/2"
7 1/2"
88°41'32"
℄ Shoe
℄ Masonry B.
℄ Bearing
Edge of Masonry B.
1 1/2" ℄ Swedged Anchor Bolts (See Drawing No. 22644 for Length and Embedment)

ANCHOR BOLT DETAIL
N.T.S.


figure_℄ Bearing
A404 @ 12" o.c. - 3" embedment (min.)
2"x4" key
3-#6's continuous (see ELEVATION)
A402 @ 12" o.c.
Construction Joint El. 282.00
A401 @ 12" o.c.
A701 @ 12" o.c.
A406 @ 12" o.c. Dowel Cages
3x8 Key (Typ.)
AF401's @ 18" o.c.
AF702's @ 12" o.c. alt. w/ AF801's @ 12" o.c.
AF802's @ 12" o.c.
2 each end
C'-0"
4'-0"
8'-0"
AF403 @ 12" o.c. (embed 1'-9")

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

NOTE:
Grout pad shall not be placed until beam seat has been roughened to the satisfaction of the Engineer.


figure_NOTE:
West end reinforcing plan similar.
Paving Bracket
Back Wall
Beam Seat
A408 @ 12" o.c.
℄ Bearing
A409
12"

REINFORCING PLAN
EAST END - CLOSURE WALL
Scale: 1/4"=1'-0"

SHEET 1 OF 2

DETAILS OF NORTH ABUTMENT
RAMP B OVER 17th. STREET

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: [illegible] DATE: [illegible]
CHECKED BY: T.R.H. DATE: [illegible] SCALE: [illegible]
DESIGNED BY: [illegible] DATE: [illegible]

BRIDGE ENGINEER

BRIDGE NO. 3397C DRAWING NO. 22639

FOR INFORMATION ONLY

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.		061783	49	123
				(1) SITE NO. 4 - FOR INFORMATION ONLY				

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	[illegible]	85	194
				JOB NO		61783	84	208
				[illegible]			[illegible]	[illegible]

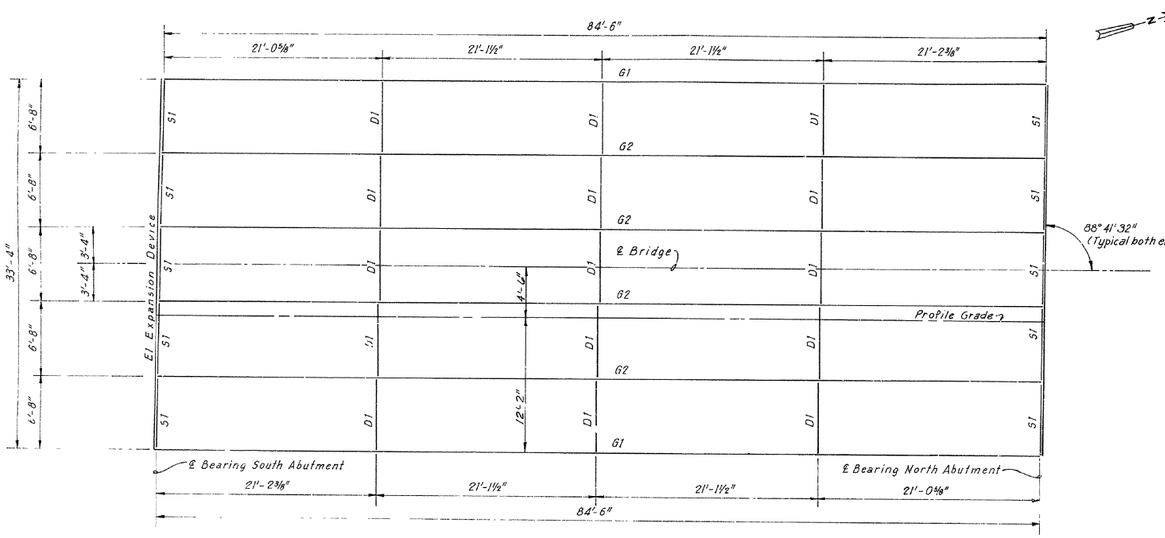
REINFORCEMENT SCHEDULE

WEST WINGWALL

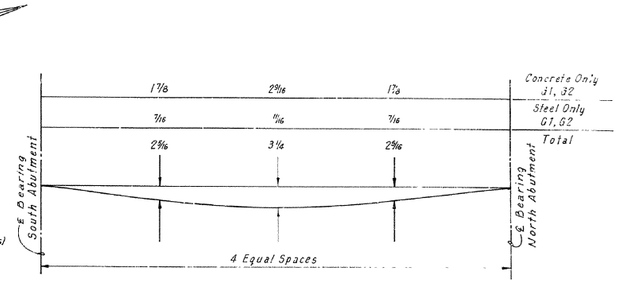
MARK	NO.	LENGTH	BEND DIA.	MARK	NO.	LENGTH	BEND DIA.
W801	13	15'-7"	5"	WF801	52	15'-2"	3"
W802	61	2'-2"	5"	WF802	1	2'-0"	3"
W803	52	15'-7"	5"	WF803	52	11'-10"	5"
W804	1	11'-4"	5"	WF804	1	7'-6"	6"
W401	1	11'-4"	5"	WF805	1	12'-1"	6"
W402	1	12'-2"	5"	WF806	1	12'-2"	6"
W403	1	12'-2"	5"	WF401	51	4'-0"	5"
W404	1	12'-2"	5"	WF402	1	4'-0"	5"
W405	1	12'-2"	5"	WF403	1	4'-0"	5"
W406	1	12'-2"	5"	WF404	1	4'-0"	5"

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.		061783	50	123
				(1)		SITE NO. 4 - FOR INFORMATION ONLY		

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED ROAD DIST NO	STATE	FED AID PROJECT NO	NO SHEET	TOTAL SHEETS
				6	ARK	IID-630-2(054)140	86	184
				JOB NO		60180	95	208
				(1)		3397C DETAILS OF SPANS		22641



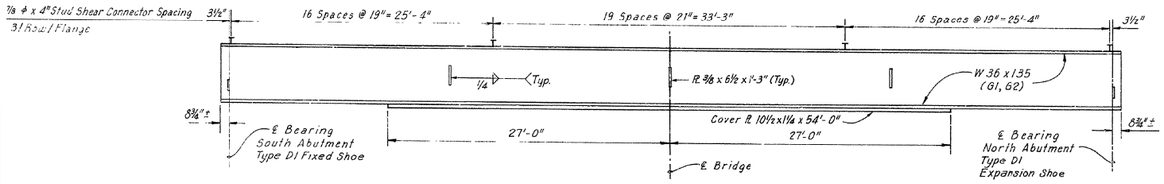
FRAMING PLAN
Scale: 3/16" = 1'0"



DEAD LOAD DEFLECTION DIAGRAM
Scale: None

NOTES:

1. Stud shear connectors shown shall be 4" long, granular flux filled, solid fluxed or equal and automatically end welded to girder flanges in accordance with recommendations of the manufacturer. ⅞" diameter studs may be substituted for the ⅞" diameter studs shown at the ratio of 1.37 - ¾" studs. The ⅞" studs shall be used as the basis of payment of 81.0 lbs per one hundred studs.
2. Structural shapes of equal or greater strength may be substituted for the shapes shown. Payment will be on the basis of the shapes shown.
3. Camber girders as required for Dead Load Deflection and vertical curve correction. Acceptable tolerance is ±¼". Vary slab haunch to allow for difference between computed and actual camber.
4. Structural steel in beams, and cover plates shall be ASTM A572 Gr 50. All other structural steel shall be A36.
5. See drawing No. 22644 for typical sections, joint and shoe details



BEAM ELEVATION
Scale: None

SHEET 1 OF 2
DETAILS OF SPANS

RAMP B OVER 17TH STREET

PULASKI COUNTY
INT. ROUTE SEC.

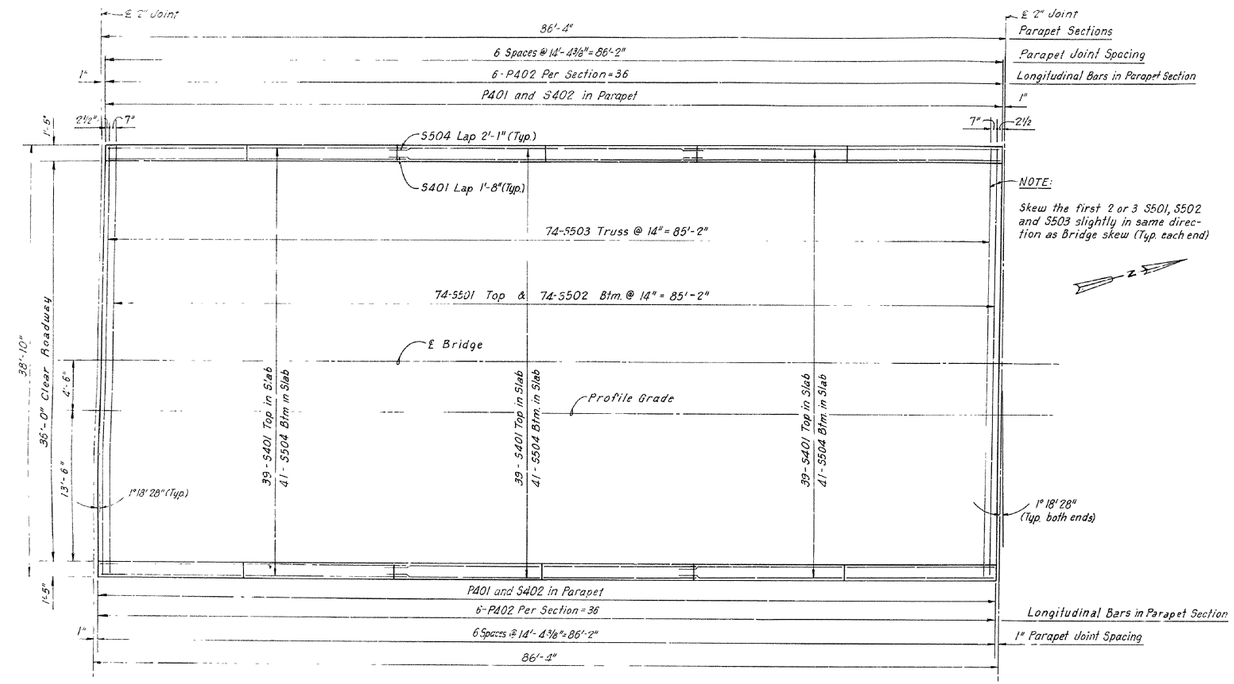
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY J.S.B DATE 7-79
CHECKED BY T.B.H DATE 6-79
DESIGNED BY P.O.F DATE 4-79 SCALE As Noted

BRIDGE NO. 3397 C DRAWING NO. 22641

FOR INFORMATION ONLY

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.		061783	51	123
				①	SITE NO. 4 - FOR INFORMATION ONLY			



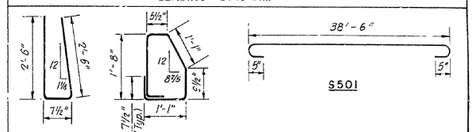
SLAB PLAN
Scale: 3/16"=1'-0"

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJECT NO.	NO. SHEET	TOTAL SHEETS
				6	ARK	LD-630-2(154)140	87	184
				JOB NO.		60.80	96	208
				①	3397C DETAILS OF SPANS			22642

REINFORCING SCHEDULE

MARK	NO.	LENGTH	PIN DIA.	MARK	NO.	LENGTH	PIN DIA.
S401	117	29'-8½"	Str.	S501	74	39'-8"	2½"
S402	180	5'-10½"	2"	S502	74	39'-2"	Str.
P401	180	5'-5½"	2"	S503	74	40'-8½"	
P402	72	14'-0"	Str.	S504	123	30'-0½"	Str.

BENDING DIAGRAM



NOTE: All dimensions are out to out

SHEET 2 OF 2
DETAILS OF SPANS

RAMP B OVER 17TH STREET

PULASKI COUNTY
INT. ROUTE SEC.

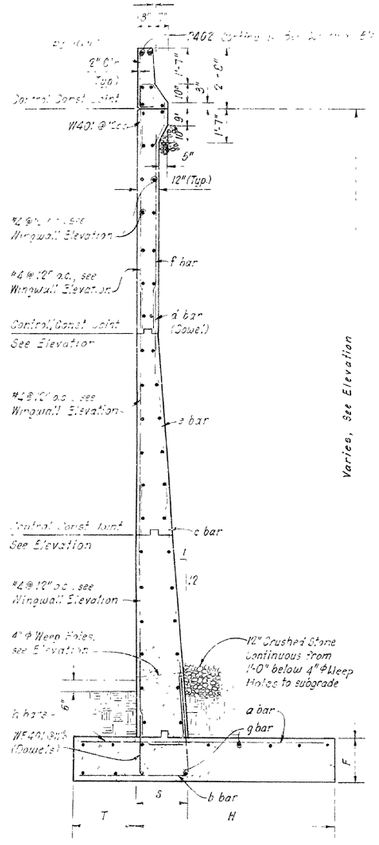
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY G.S.B. DATE 7-75
CHECKED BY T.B.H. DATE 7-79
DESIGNED BY T.B.H. DATE 12-75 SCALE As Noted

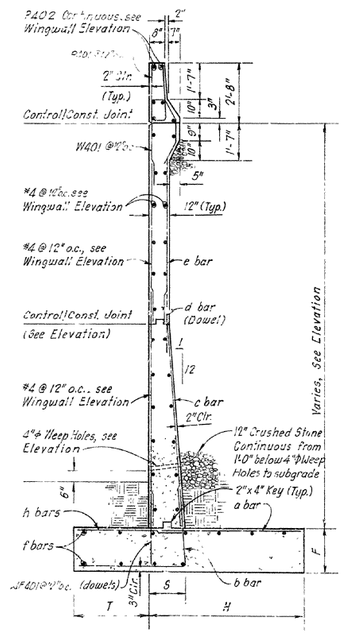
BRIDGE NO. 3397 C DRAWING NO 22642

FOR INFORMATION ONLY

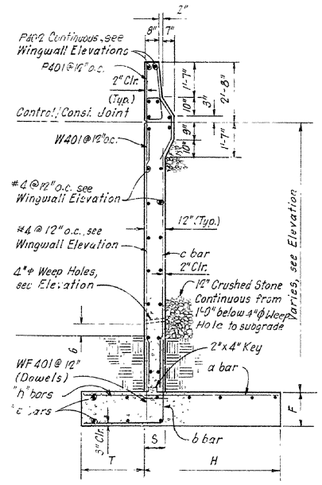
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	52	123
				(1) SITE NO. 4 - FOR INFORMATION ONLY				



REFERENCE SECTION A
Scale: None



REFERENCE SECTION B
Scale: None



REFERENCE SECTION C
Scale: None

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO				
				(1) SHA				

NOTES

BRIDGE NO. | DESCRIPTION | WINGWALL | DRAWING NO.

BRIDGE NO.	DESCRIPTION	WINGWALL	DRAWING NO.
5484	Ramp A Over Ramp E	Northeast	22640
5484	Ramp A Over Ramp E	Northwest	
5491	Ramp A Over Ramp E		
33170	Ramp B		

3397 AW&BW I-30 Over 17th St Northeast

2. Crushed stone backfill shall not be placed until the wall shall be constructed and cured to the top. Under this Excavation for

SHEET 1 OF 1
WINGWALL TYPICAL SECTIONS
RAMP A OVER RAMP E
I-30 OVER 17th ST. WIDENING
AND
RAMP B OVER 17th STREET
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: [illegible] DATE: [illegible]
CHECKED BY: [illegible] DATE: [illegible]
DESIGNED BY: [illegible] DATE: [illegible]
SCALE: [illegible]

BRIDGE ENGINEER

BRIDGE NO. 5484 & 3397C
3397 AW&BW

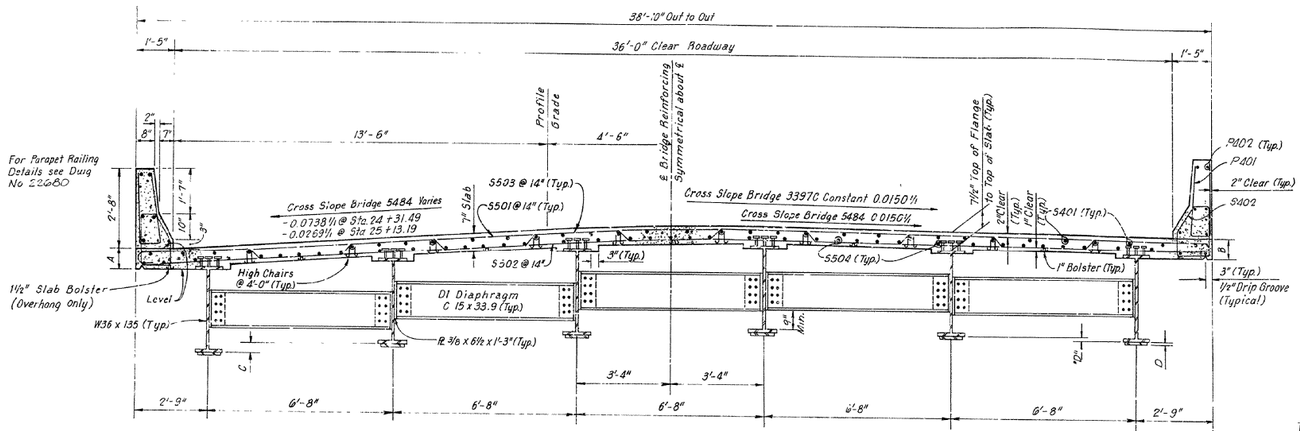
DRAWING NO. 22643

FOR INFORMATION ONLY

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.		061783	53	123

(1) SITE NO. 4 - FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJECT NO.	NO. SHEET	TOTAL SHEETS
				6	ARK.	BRO-630-2(154)140	89	184
				JOB NO.		60180	98	208
				(1) 5484 & 3397C DTLS OF SPANS			22644	



SECTION THRU DECK

Scale: 1/2" = 1'0"

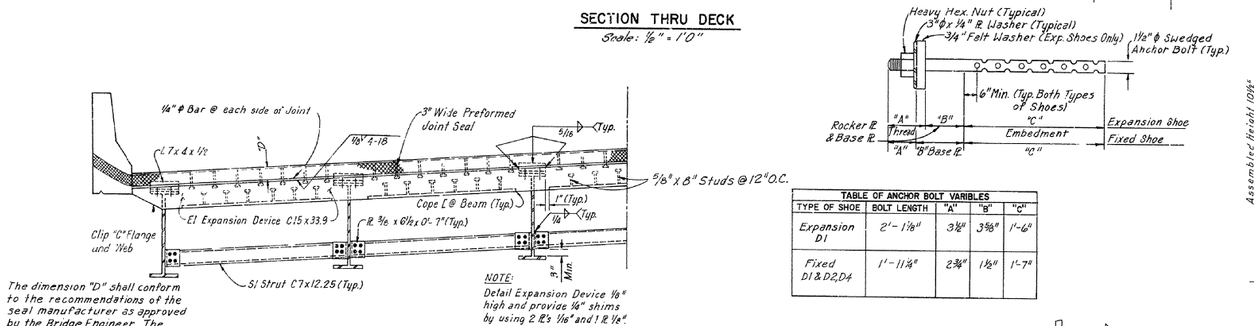
DECK SECTION VARIABLES

STRUCTURE	CROSS SLOPE		A		B		C		D	
	MAX.	MIN.	MAX.	MIN	MAX.	MIN	MAX.	MIN	MAX	MIN
BRIDGE 5484	0.0583 1/2	0.010 1/2	7 7/8"	7 1/8"	0 1/4"	8 1/2	4 9/8"	8 3/4"	1 1/4"	1 1/4"
BRIDGE 3397C	0.0150 1/2	0.0150 1/2	8 1/8"	8 1/8"	8 5/8"	8 5/8"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

SERVICE LOAD DISTRIBUTION

	TO INTERIOR BEAM	TO EXTERIOR BEAM
Dead Load - Noncomposite	767 Lbs/Ft.	415 Lbs/Ft.
* Dead Load - Composite	224 Lbs/Ft	192 Lbs/Ft.
Live Load to Composite Beam HS-20-44 Loading	1212 Wheels plus Impact	1176 Wheels plus Impact

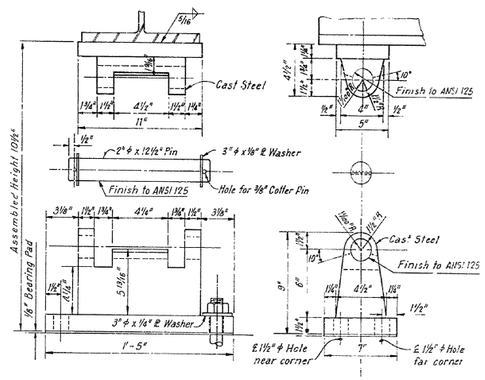
* Includes 15 Lbs/Sq. Ft. for future wearing surface.



HALF SECTION AT EXPANSION DEVICE

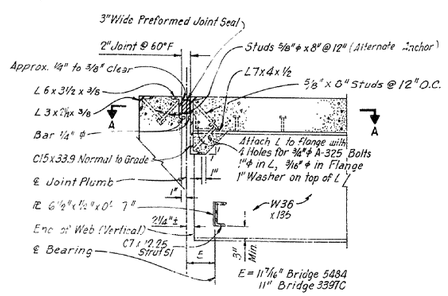
Scale: None

TABLE OF ANCHOR BOLT VARIBLES				
TYPE OF SHOE	BOLT LENGTH	"A"	"B"	"C"
Expansion DI	2'-1 7/8"	3 1/2"	3 5/8"	1'-6"
Fixed DI & DI, D4	1'-11 3/4"	2 3/4"	1 1/2"	1'-7"



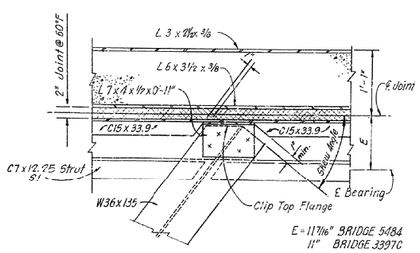
TYPE DI FIXED SHOE

Scale: None



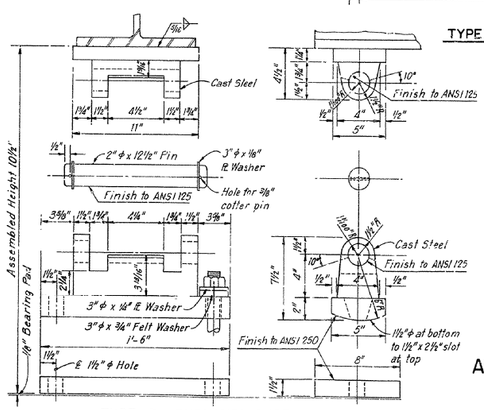
SECTION NORMAL TO ABUTMENT

Scale: None

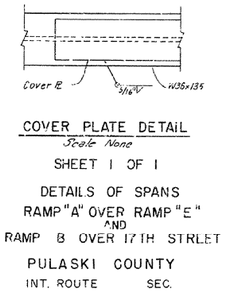


SECTION A-A FLANGE CLIP DETAIL

Scale: 1" = 1'-0"



TYPE DI EXPANSION SHOE



COVER PLATE DETAIL

Scale: None

SHEET 1 OF 1

DETAILS OF SPANS
RAMP "A" OVER RAMP "E"
AND
RAMP B OVER 17TH STRLET

PULASKI COUNTY
INT. ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK

DRAWN BY G.S.B. DATE 10-75
CHECKED BY T.B.H. DATE 4-76
DESIGNED BY M.W.K./P.D.P. DATE 5-79 SCALE AS NOTED

BRIDGE NO 5484 & 3397C DRAWING NO 22644

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

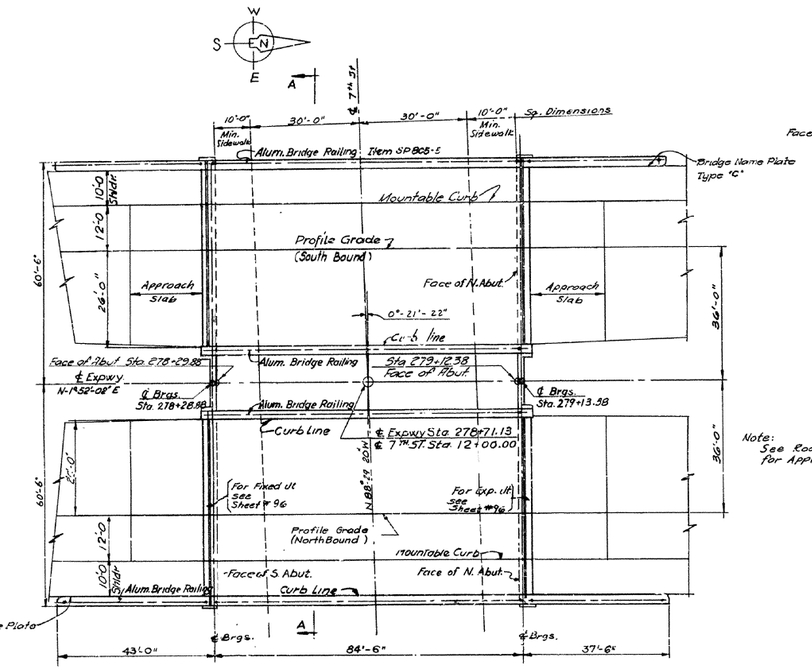
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	54	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

429

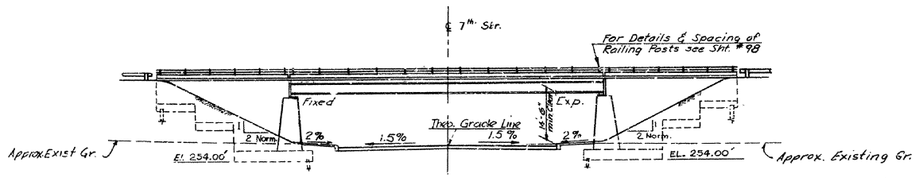
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		68	144
JOB NO. 6596					

FED AID PROJ. I-30-2(29)141

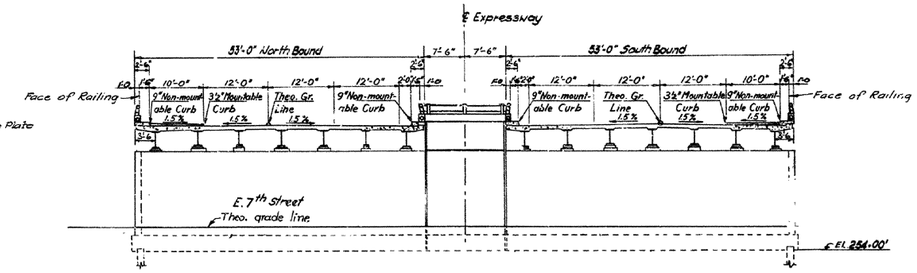


PLAN
Scale 1/16"=1'-0"

Note:
Abutments normal to ℄ Expressway.



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

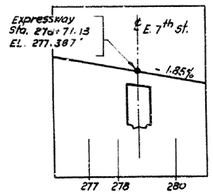


SECTION A-A
Scale: 1/32"=1'-0"

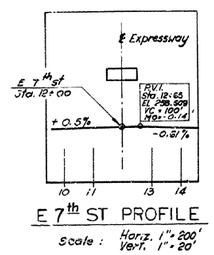
SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	SOUTH ABUT.	SPAN	NORTH ABUT.	TOTAL QUANTITIES
103	Dry Excavation for Structures	C.Y.	340		340	680
SP 125-1	Special Compaction of Earthwork	C.Y.	6740		6200	12940
SP 126-2	Embankment Material (Class EM-1)	C.Y.	6740		6200	12940
SP 12.-1	Bagged Screened Gravel	C.Y.	120		110	230
SP B 802	Class A Concrete for Bridges	C.Y.	531	–	491	1,022
SP B 802	Class S Concrete for Bridges	C.Y.	4	289	4	297
SP B 803	Reinforcing Steel	L.B.	52,210	53,190	50,380	105,780
* SP 803-6	Shear Connectors	L.B.	–	2,750	–	2,750
SP 804-4	Bearing Piles	L.F.	4,633	–	4,633	9,266
SP 805-5	Aluminum Bridge Railing	L.F.	99	342	98	539
SP B 807	Structural Steel in Beam Spans	L.B.	–	383,300	–	383,300
SP 860-2	Damp Proofing	S.F.	3,960	–	3,000	6,960
SP 911-2	6" Dia. Bridge Underdrain	L.F.	168	–	168	336
929	Bridge Name Plate – Type "C"	EA.	1		1	2

* Quantities shown for Shear Connectors are based on spiral Bar Shear Connectors See Special Provisions.



EXPRESSWAY PROFILE
Scale: Horiz. 1" = 200'
Vert. 1" = 20'



E 7th ST PROFILE
Scale: Horiz. 1" = 200'
Vert. 1" = 20'

Note: For lighting work on this sheet see sheet #120.

REFERENCES:

General Notes - Sheet #4
Joint Details - Sheet # 96
Architectural Details - Sheet # 92
Railing Details - Sheet # 98
Embankment Const. - Sheet # 100
Excavation - Sheet #101
Boring Logs - Sheet #95
Bridge Name Plate - Sheet #118

Revised to show new type Aluminum Bridge Railing. E.R.B. 1-5-60
Revised quantities for change to new type Aluminum Bridge Railing. L.H.T. 1-7-60.
Revised lighting work note. R.L.C. 1-18-60

In Charge Cr. IRVIN/64 Jr.
Made By G.A. Yannow
Traced By L.P.
Checked By T.O.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 7TH ST
NORTH LITTLE ROCK
STRUCTURE NO. 25
GENERAL PLAN & SECTIONS

Revised	6-15-59

DWG. NO.	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
12-6 4009	as shown	2-15-58	

Drwg. No. 10893

FOR INFORMATION ONLY

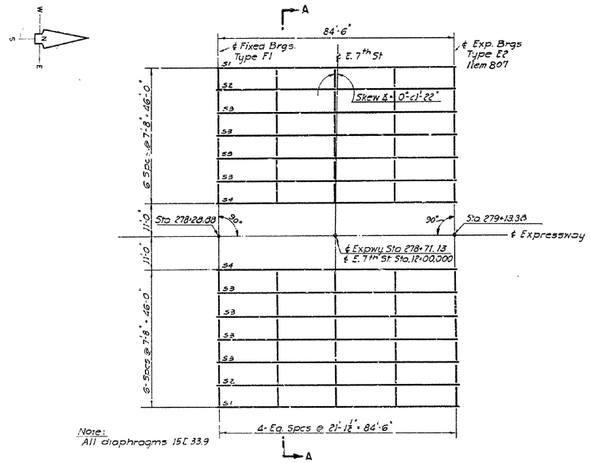
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	55	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

430

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	F-096(229)		69	144
JOB NO. 6596					

FED. AID PROJ. I-30-8(28)142

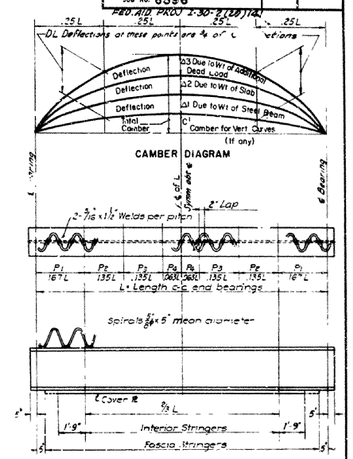


FRAMING PLAN

Scale: 1" = 20'-0"

STRINGER SCHEDULE

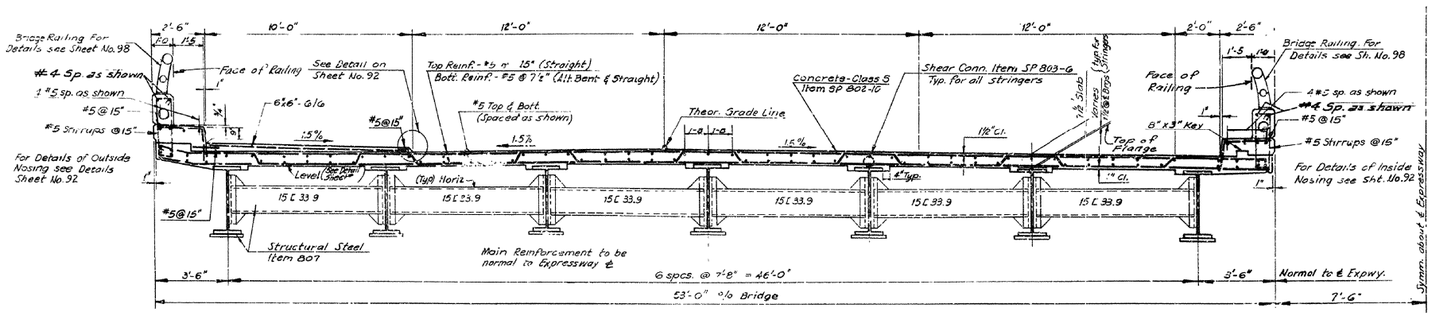
Member	Size	Cover ℄	P_1	P_2	P_3	P_4	Δ_1	Δ_2	Δ_3	C_1	Total Camber Center
S1	36WF230	20"x1"	54'	7	85'	102'	.60	1.55	.50	—	2 5/8
S2	36WF230	20"x1"	64'	74'	9"	12"	.55	1.40	.40	—	2 1/4
S3	36WF230	20"x 7/8"	64'	74'	9"	12"	.55	1.40	-	—	2 1/4
S4	36WF194	16"x1 1/4"	7"	9"	13'	18'	.60	1.55	.50	—	2 5/8



PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS

Not to Scale



Reinforcing Steel - Item SP 803-5

SECTION A-A

Scale: ⅜" = 1'-0"

General Arrangement and Sections See Sheet No. 68

Note: For lighting work on this sheet see sheet #120.

For Int. Diaph. Conn. Details
For End Diaph. Conn. Details
For Bearing Details
For Shear Connectors
} See Sheet No. 93

Revised to show new type Aluminum Bridge Railing. E.R.B. 1-5-60
Revised lighting work note. R.L.C. 1-18-60.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 7th. ST.
NORTH LITTLE ROCK
STRUCTURE NO. 25
FRAMING PLAN

Revised	6-13-59

DWG. NO.	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
12.1-B 6010	As Noted	2-15-58	

Drwg. No. 1089d

In Charge Of J. A. Walsh, Jr.
Made By L. P.
Traced By L. P.
Checked By H. G.

FOR INFORMATION ONLY

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.		061783	56	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

431

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		70	144
JOB NO. 6596					

FED. AID PROJ. I-30-2(29)141

ELEVATIONS NORTH ABUTMENT		
POINT	NORTHBOUND	SOUTHBOUND
A	276.849	276.849
B	276.538	276.538
C	276.198	276.198

ELEVATIONS SOUTH ABUTMENT		
POINT	NORTHBOUND	SOUTHBOUND
A	278.447	278.447
B	278.136	278.136
C	277.796	277.796

TYPICAL PAD DETAIL
Scale ½"=1'-0"

PLAN
Scale ½"=1'-0"

ELEVATION
Scale: ⅛"=1'-0"

PLAN OF FOOTING
Scale: ⅛"=1'-0"

KEY PLAN
Top of Pad Elevations
Not to Scale

ELEVATION OF WINGWALL
Scale: ⅛"=1'-0"
South-East as shown and noted
South-West opposite hand and noted

ELEVATION OF WINGWALL
Scale: ⅛"=1'-0"
North-East as shown and noted
North-West opposite hand and noted

SECTION A-A
Scale ⅜"=1'-0"

for Architectural Treatment of Walls see Sht. #92

REFERENCES:
For Section details of Wingwalls see Sheet #97
*For Section B-B see sheet #94
For Sections C-C, C'-C', D-D, D'-D' see Sheet #94

Notes:
Estimated average length of Piles: Abutment 40'±, Wingwalls 45'±
Max. Load per Pile 40 Tons
All Piles are Bearing Piles Item SP 804-4
All Reinforcing Steel-Item SP 805-5
All Concrete Class 'A' Item Sp 802-10
For Bearing Pile Details see Sheet #95 & 95A

Note: For lighting work on this sheet see sheet #120

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 7TH ST.
NORTH LITTLE ROCK
STRUCTURE NO. 25
ABUTMENTS & WINGWALLS

DWG. NO.	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
121-B G011	as Noted	6-15-58	

Revised lighting work note. R.L.C. 1-18-60

In Charge Of J. A. Walsh, Jr.
Made By H. Gunst
Traced By L. F.
Checked By G. A. Y., H. G.

Drwg. No. 10895

FOR INFORMATION ONLY

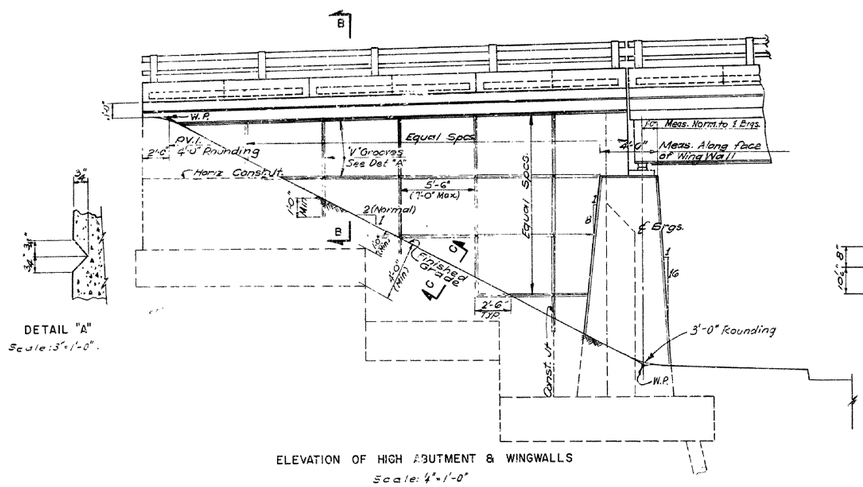
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	57	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

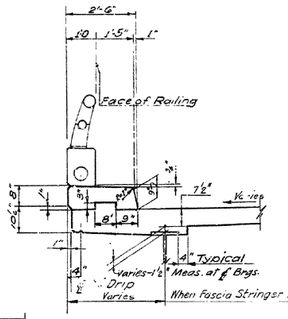
453

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-001-2(29)		92	144
JOB NO. 6596					

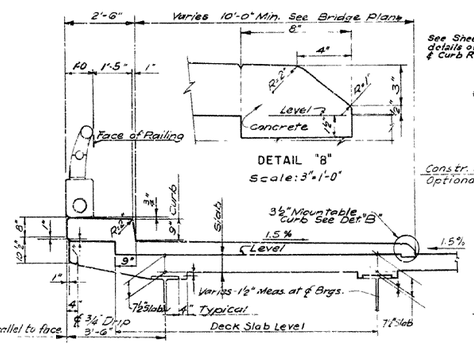


ELEVATION OF HIGH ABUTMENT & WINGWALLS
Scale: 4"=1'-0"

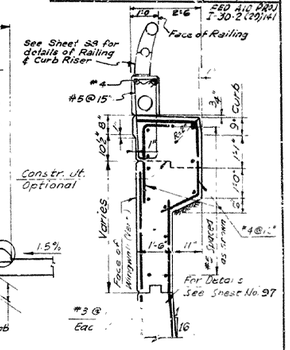
DETAIL "A"
Scale: 3"=1'-0"



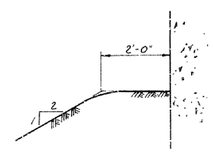
NOSING & SAFETY WALK
WITH NON-MOUNTABLE CURB
Scale: ½"=1'-0"



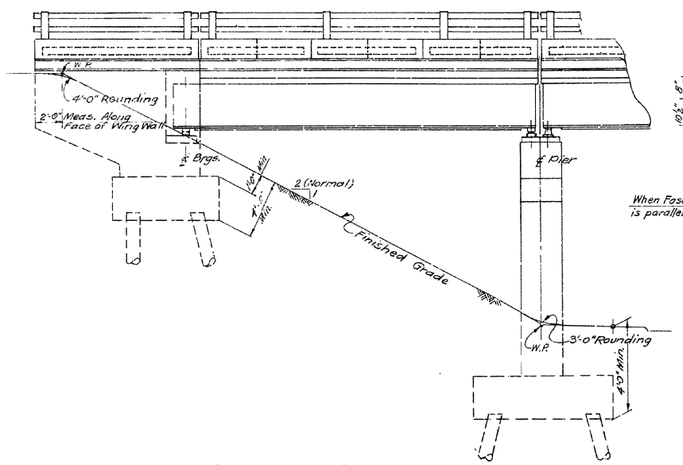
OUTSIDE NOSING & SAFETY WALK
WITH MOUNTABLE CURB
Scale: 3"=1'-0"
EXPRESSWAY OVER



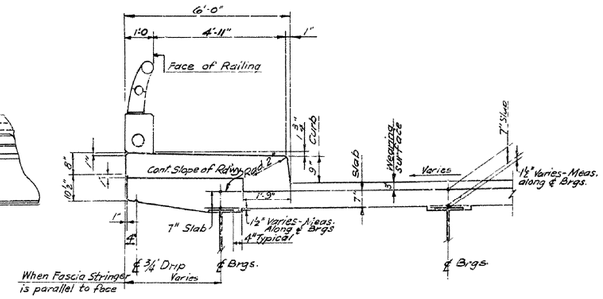
SECTION B-B
Scale: ½"=1'-0"



SECTION C-C



ELEVATION OF STUB ABUTMENT & PIER
Scale: 4"=1'-0"



NOSING & SIDEWALK
Scale: ½"=1'-0"
EXPRESSWAY UNDER

Revised to show new type Aluminum Bridge Railing.
E.R.B. 1-4-60

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

ARCHITECTURAL DETAILS

DWG. NO.	SCALE	DATE	
121-B 6000	As Noted	2-17-59	BROWN & BLAUVELT CONSULTING ENGINEERS

In Charge Of J. A. Walsh, Jr.
Made By J. A. T.
Traced By J. A. T.
Checked By H. G.

Dwg. No. 917

FOR INFORMATION ONLY

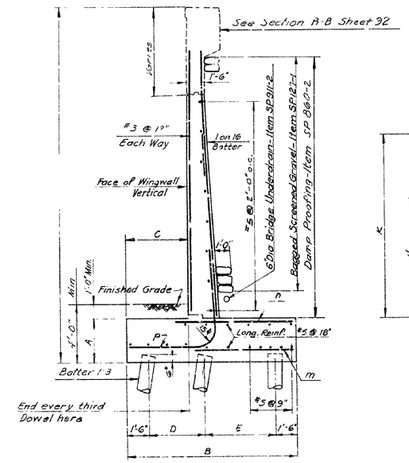
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	58	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

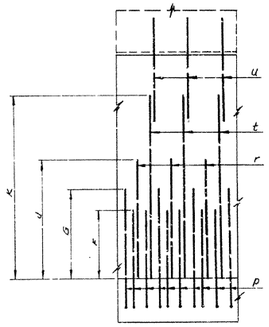
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	FAP-223		97	144
JOB NO. 6596					

F.A.P. 7-30-2(20)116)



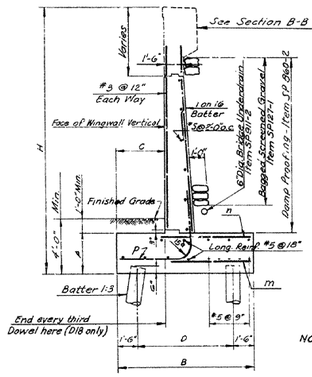
WALL SECTIONS D20 TO D34 INCLUSIVE

Scale: 4"=1'-0"



STEM STEEL D22 TO D34

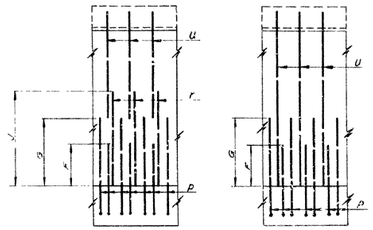
Scale 4"=1'-0"



WALL SECTIONS D10 TO D18 INCLUSIVE

Scale: 4"=1'-0"

NOTE: Bridge Underdrain and Bagged Screened Gravel for Walls D16 and D18 Only.



STEM STEEL

Scale 4"=1'-0"

D20, D18 D16, D14, D12, D10

WALL DATA

WALL SECTION	CONCRETE OUTLINE AND PILE SPACING: DIMENSIONS: height = H	A	B	C	D	E	Key	m: Bar Size	m: Length	m: Spcg.	n: Bar Size	n: Length	n: Spcg.	p: Bar Size	p: Spcg.	p: F	p: G	r: Bar Size	r: Spcg.	r: u'	t: Bar Size	t: Spcg.	t: K	u: Bar Size	u: Length	u: Spcg.	WALL SECTION
D32	30'-1" to 32'-0"	3'-6"	14'-0"	3'-0"	4'-0"	7'-0"	4"x1'-6"	#6	10'-6"	1'-4½"	#11	12'-0"	5½"	#11	5½"	4'-3"	7'-6"	#11	1'-4½"	11'-6"	#11	1'-4½"	18'-0"	#6	—	1'-4½"	D32
D30	28'-1" to 30'-0"	3'-0"	13'-3"	2'-6"	4'-0"	6'-3"	4"x1'-6"	#5	9'-6"	1'-6"	#10	11'-6"	6"	#11	6"	4'-3"	7'-6"	#11	1'-6"	11'-0"	#11	1'-6"	17'-0"	#6	—	1'-6"	D30
D28	26'-1" to 28'-0"	3'-0"	12'-6"	2'-6"	4'-0"	5'-6"	4"x1'-6"	#6	8'-6"	1'-6"	#9	11'-0"	6"	#10	6"	3'-9"	5'-6"	#10	1'-6"	10'-6"	#10	1'-6"	15'-0"	#5	—	1'-6"	D28
D26	24'-1" to 26'-0"	3'-0"	11'-9"	2'-6"	3'-9"	5'-0"	4"x1'-6"	#6	7'-9"	1'-4½"	#8	10'-0"	5½"	#9	5½"	3'-9"	6'-0"	#9	1'-4½"	9'-6"	#9	1'-4½"	14'-6"	#8	—	1'-4½"	D26
D24	22'-1" to 24'-0"	3'-0"	11'-3"	2'-6"	3'-9"	4'-6"	3"x1'-5"	#6	7'-9"	1'-4½"	#5	10'-0"	11"	#8	5½"	3'-0"	6'-0"	#8	1'-4½"	8'-6"	#8	1'-4½"	11'-6"	#5	—	1'-4½"	D24
D22	20'-1" to 22'-0"	3'-0"	10'-6"	2'-6"	3'-6"	4'-0"	3"x1'-4"	#6	7'-6"	1'-6"	#8	9'-0"	12"	#8	6"	3'-0"	4'-6"	#8	1'-6"	6'-6"	#8	1'-6"	9'-6"	#5	—	1'-6"	D22
D20	18'-1" to 20'-0"	2'-9"	9'-9"	2'-6"	3'-0"	3'-9"	3"x1'-4"	#5	6'-9"	1'-4"	#8	8'-3"	1'-4"	#8	8"	3'-0"	4'-6"	#8	1'-4"	7'-3"	—	—	—	#5	—	1'-4"	D20
D18	16'-1" to 18'-0"	2'-6"	9'-0"	2'-6"	6'-0"	—	3"x1'-3"	#5	6'-9"	1'-6"	#6	7'-3"	1'-6"	#7	8"	2'-9"	3'-6"	#7	1'-4"	5'-6"	—	—	—	#5	—	1'-4"	D18
D16	14'-1" to 16'-0"	2'-6"	8'-0"	2'-0"	5'-0"	—	3"x1'-2"	#5	6'-0"	1'-6"	#5	7'-0"	1'-4"	#6	8"	2'-6"	3'-6"	—	—	—	—	—	—	#5	—	1'-4"	D16
D14	12'-1" to 14'-0"	2'-6"	7'-0"	2'-0"	4'-0"	—	3"x1'-1"	#5	5'-3"	1'-6"	#5	6'-0"	1'-6"	#5	9"	2'-3"	3'-6"	—	—	—	—	—	—	#5	—	1'-6"	D14
D12	10'-1" to 12'-0"	2'-6"	7'-0"	2'-0"	4'-0"	—	3"x1'-0"	#5	5'-3"	1'-4"	#5	6'-0"	1'-6"	#5	9"	2'-1"	3'-6"	—	—	—	—	—	—	#5	—	1'-6"	D12
D10	8'-1" to 10'-0"	2'-6"	6'-6"	2'-0"	3'-6"	—	3"x1'-0"	#4	4'-9"	1'-6"	#5	5'-6"	1'-6"	#4	9"	1'-8"	3'-6"	—	—	—	—	—	—	#4	—	1'-6"	D10
D34	32'-1" to 34'-0"	3'-6"	15'-0"	4'-0"	4'-0"	8'-0"	4"x1'-5"	#6	11'-0"	1'-1½"	#11	12'-0"	5½"	#11	4½"	4'-3"	9'-0"	#11	1'-1½"	13'-0"	#11	1'-1½"	19'-0"	#6	—	1'-1½"	D34

In Charge Of U. A. Walsh, Jr.
Made By L.P.
Traced By L.P.
Checked By H.G.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

STANDARD WALL SECTIONS
TYPE "D"
SECTIONS D 10 TO D 34 INCL.

DWG. NO.	SCALE	DATE	BROWN & VANLAUVELT CONSULTING ENGINEERS
121-B 6005	As Noted	2-15-58	

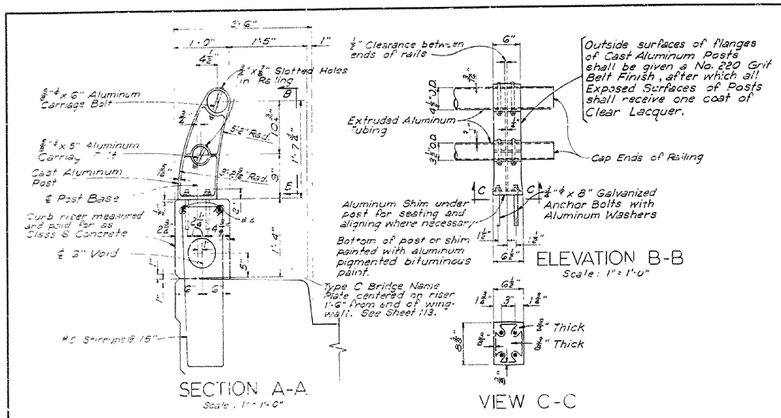
D-WG. N-13922

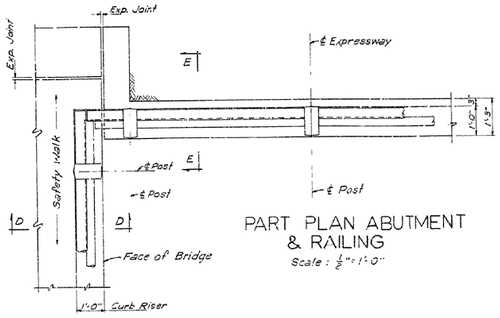
FOR INFORMATION ONLY

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.		061783	59	123

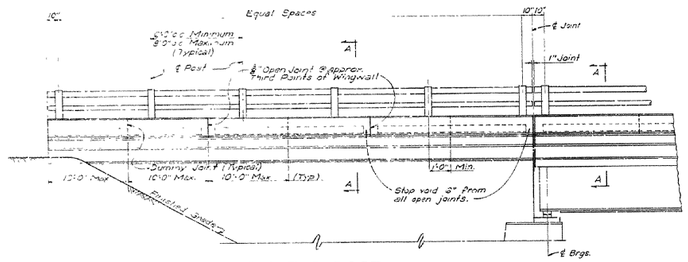
(1) SITE NO. 5 - FOR INFORMATION ONLY

459

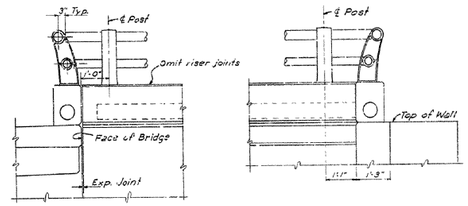




PART PLAN ABUTMENT & RAILING
Scale: ½"=1'-0"

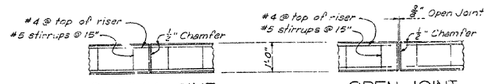


RAILING & END POST HIGH ABUTMENT
Scale: ¼"=1'-0"



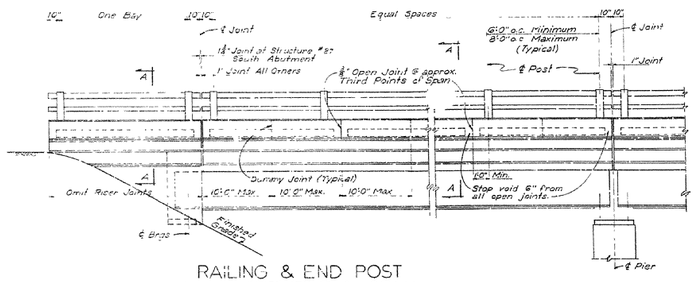
SECTION D-D
Scale: ½"=1'-0"

SECTION E-E
Scale: ½"=1'-0"



DUMMY JOINT OPEN JOINT

PLAN CURB RISER JOINTS
Scale: ½"=1'-0"



RAILING & END POST STUB ABUTMENT & SPAN
Scale ¼": 1'-0"

NOTES

Fabricator to determine location of railing posts and to furnish prints for approval.
Aluminum Bridge Railing Item SP 605-5
A rail connection utilizing set screws is an acceptable alternate and may be supplied at the Contractors option.

CONTRACT 6
LITTLE ROCK-NORTH LITTLE ROCK EXPRESSWAY
ALUMINUM RAILING DETAILS

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: R.L.C DATE: 1-21-62
TRACED BY: DATE:
CHECKED BY: E.P.W. DATE: 1-31-62
SCALE: As Shown

BRIDGE ENGINEER
BRIDGE NO.
DRAWING NO. 10923

FOR INFORMATION ONLY

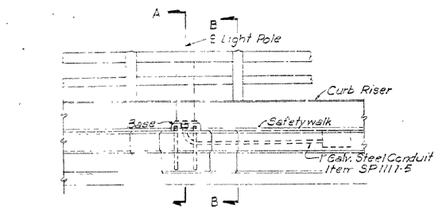
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

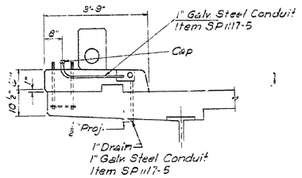
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	60	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

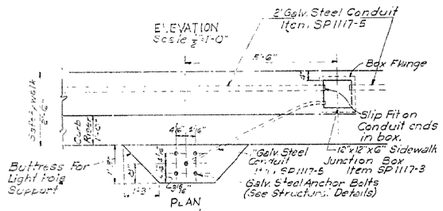
4(66)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	ARK	F 30-5 (23) 161			
JOB NO. 05 2...					

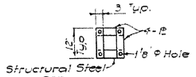




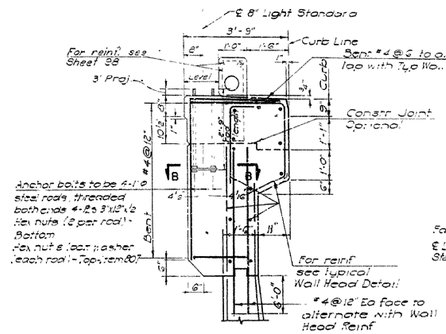
SECTION A-A
Scale ½"=1'-0"



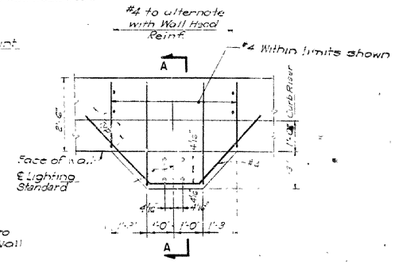
ARRANGEMENT OF ELECTRICAL DETAILS AT BUTTRESS



SECTION B-B
Scale ½"=1'-0"

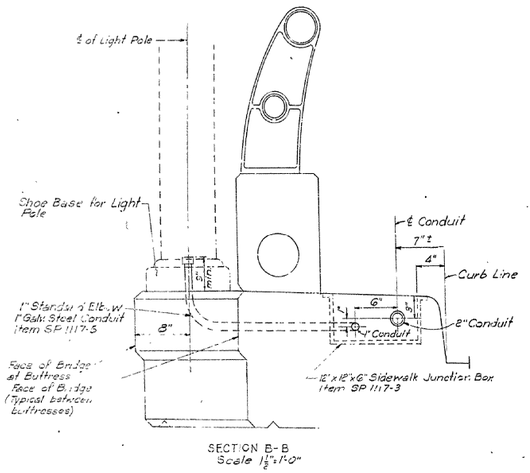


SECTION A-A
Scale ½"=1'-0"

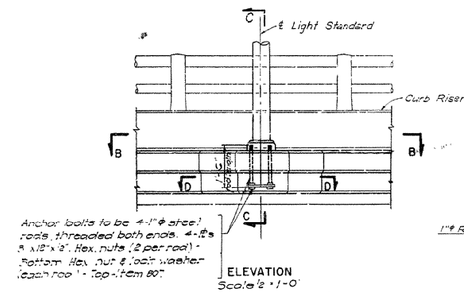


Scale ½"=1'-0"

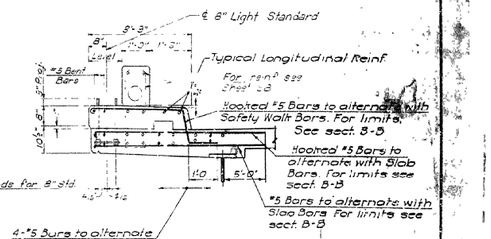
BUTTRESS TYPE C



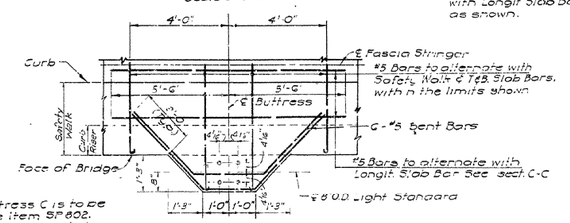
SECTION B-B
Scale 1½"=1'-0"



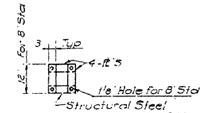
ELEVATION
Scale ½"=1'-0"



SECTION C-C
Scale ½"=1'-0"



SECTION B-B
Scale ½"=1'-0"



SECTION D-D
Scale ½"=1'-0"

BUTTRESS TYPE A

Note:
1. Concrete in Buttress C is to be Class 'A' Concrete Item SP 802.
2. Concrete in Buttress A is to be Class 'B' Concrete Item SP 802.
3. Reinf. Steel is Item SP 803.
4. Structural Steel is to be paid for under Item 807. Anchor bolts, nuts and lock washers are to be Galvanized Steel.
5. For typical reinf. not shown see wingwall details.
6. For Curb Riser details see sheet 98.

Revised	9-15-59
Revised	8-15-59
Revised	4-1-59

Revised for new type Aluminum Bridge Railing, 1-18-60 R.L.C.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

LIGHTING AND STRUCTURAL DETAILS BUTTRESSES ON BRIDGES AND WALLS

DWG. NO.	SCALE	DATE	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
1216 9235	½"=1'-0"	9-15-59	

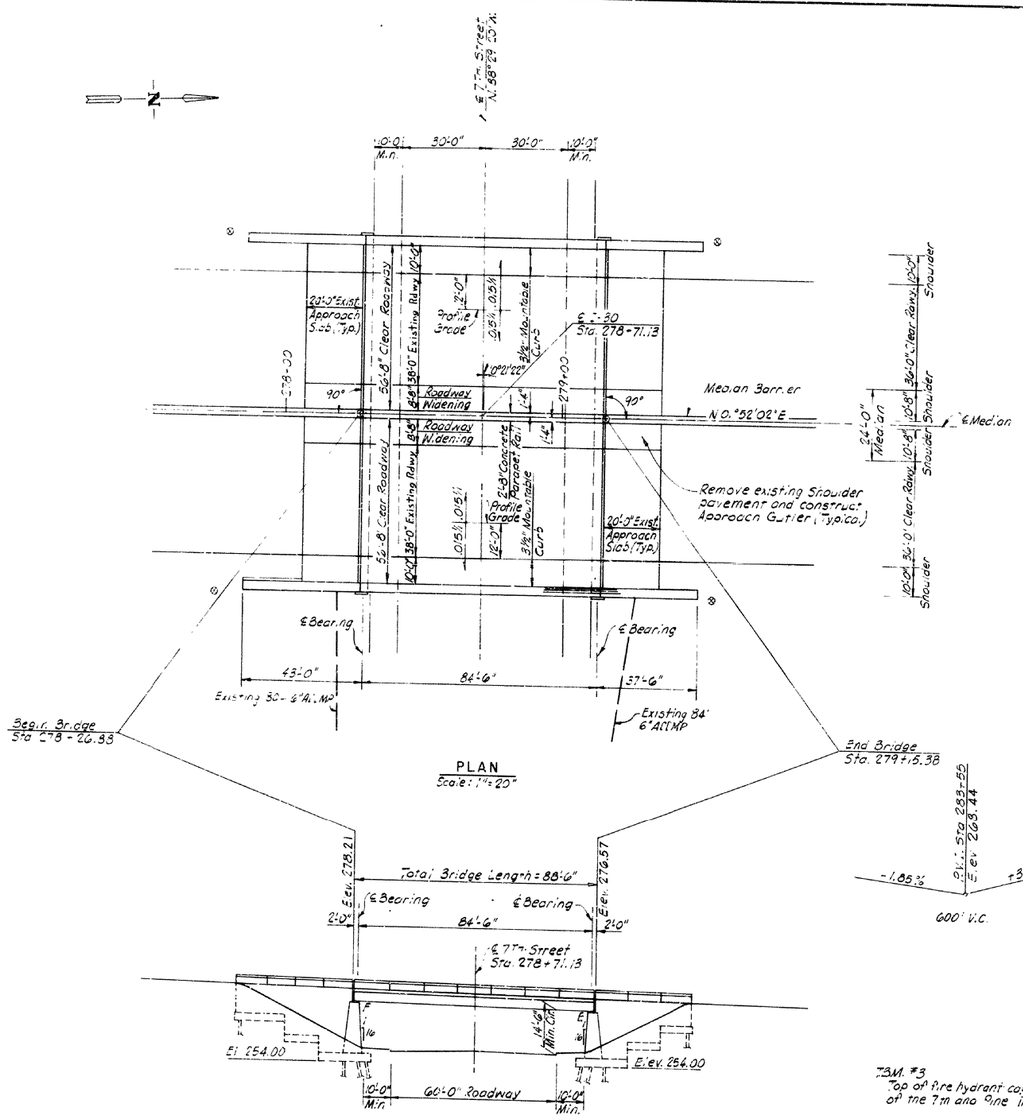
Drwg. No. 10,981

In Charge Of W. Wolters
Mode By ...
Traced By ...
Checked By ...

FOR INFORMATION ONLY

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.		061783	61	123
				(1) SITE NO. 5 - FOR INFORMATION ONLY				

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-4-82				6	ARK.	I-30-2(122)140	77	131
				JOB NO.		60028	82	136
				(1) 2768CW LAYOUT OVER E 7TH			23557	



NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations
3. For Typical Approach Slab Details, see Drawing No. 23590.
4. For General Notes, See Drawing No. 23546

Design Specifications: AASHTO Standard Specifications for Highway Bridges 13th with 1978 and Interim Specifications.

Design Live Loading: HS20 and Special Interstate Loading of Two 24,000 lb. Axles spaced at 4'-0" on centers.

Unit Stresses: New Construction

Class S Concrete	f'_c = 3,500 psi
Class D AE Concrete	f'_c = 3,500 psi
Reinforcing Steel, Grade 60	f_s = 60,000 psi
Structural Steel, A-36	F_y = 36,000 psi
Structural Steel, A572 (Gr. 50)	F_y = 50,000 psi

Method of Design: Load Factor

T.B.M. #3 E.lev. 260.19
Top of fire hydrant cap at N. E. corner of the 7th and Pine intersection.

Revised: For Widening & Median Only. 2-4-82. M.E.W. CR-GVA

LAYOUT OF
I-30 OVER E. 7th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 1-79
CHECKED BY: W.B.-. DATE: 2-80
DESIGNED BY: W.B.-. DATE: 2-79
SCALE: As Noted

BRIDGE ENGINEER

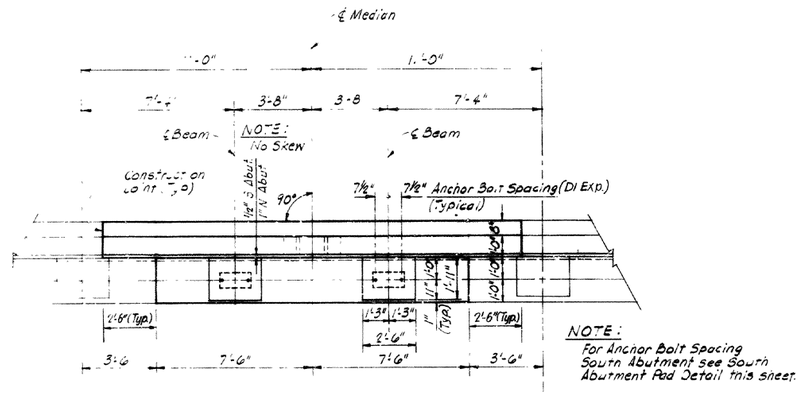
BRIDGE NO. 2768 CW DRAWING NO. 23557

FOR INFORMATION ONLY

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.		061783	62	123
				① SITE NO. 5 - FOR INFORMATION ONLY				

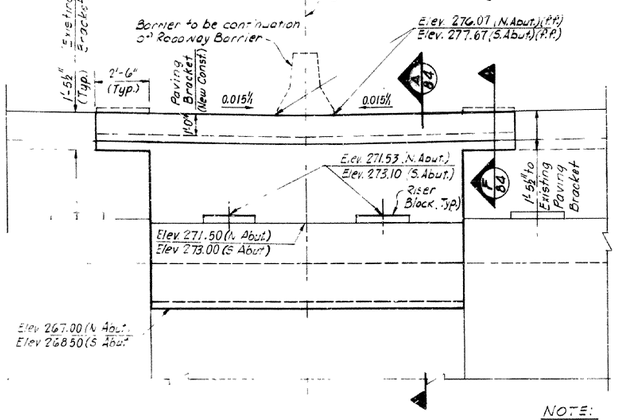
327

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-11-82				6	ARK.	I-30-2(122)140	78	131
				JOB NO.		60023	83	136
				① 2768CW DTLS ABUTMENTS			23558	



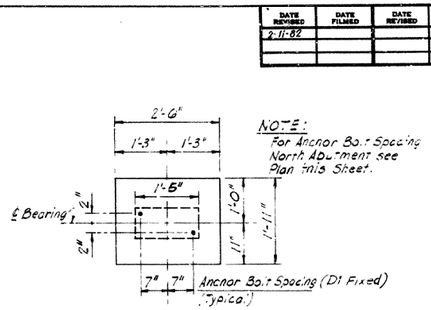
NOTE:
For Anchor Bolt Spacing South Abutment see South Abutment Pad Detail this sheet.

PLAN - NORTH ABUTMENT
(South Abutment Similar)
Scale: 3/8"=1'-0"



ELEVATION - NORTH ABUTMENT
(South Abutment Similar)
Scale: 3/8"=1'-0"

NOTE:
Riser Blocks to be poured monolithically with Beam Seat.



NOTE:
For Anchor Bolt Spacing North Abutment see Plan this Sheet.

SOUTH ABUTMENT PAD DETAIL
Scale: 3/4"=1'-0"

NOTE:
1. For Typical Details and Sections of Abutments see Dwg. No. 23554.
2. For Details of Joints see Drawing No. 23557.
3. For Details of Shoes see Drawing No. 23556.
4. Heavy lines represent New Construction.

Revised: For Widening & Median Only. 2-10-82. H.Maj. C.M. G.V.A.

SHEET 1 OF 1
DETAILS OF ABUTMENTS
I-30 OVER E. 7th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: N.A.N. DATE 1-80
CHECKED BY: T.B.T. DATE 2-80
DESIGNED BY: D.C. DATE 2-80
SCALE AS NOTED

BRIDGE ENGINEER

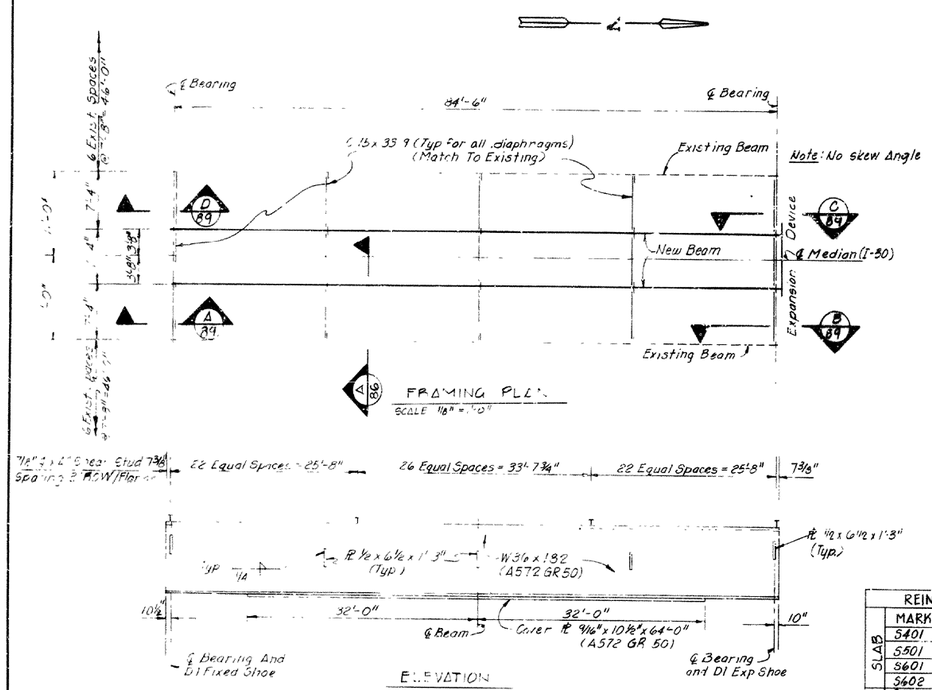
BRIDGE NO. 2768 CW DRAWING NO. 23558

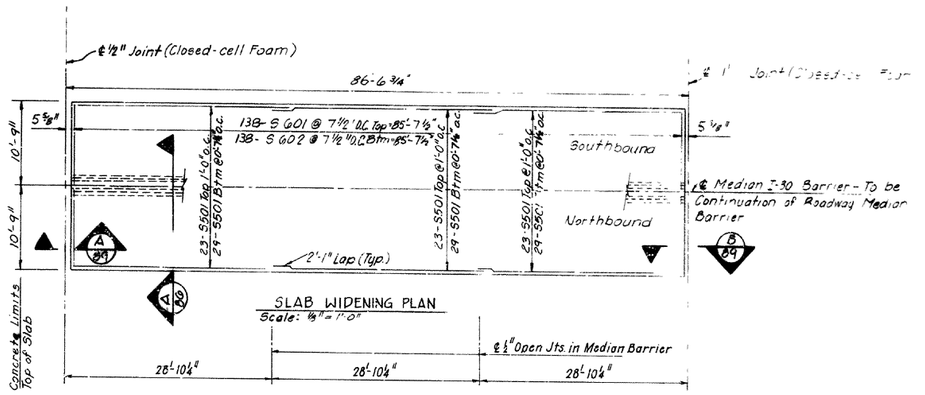
FOR INFORMATION ONLY

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.		061783	63	123
				(1)	SITE NO. 5 - FOR INFORMATION ONLY			

378

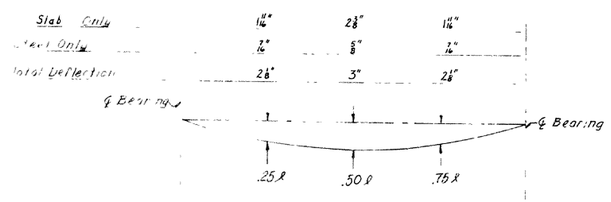
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-11-82				6	ARK.	IR-30-2(122)140	79	131
				JOB NO.		60023	84	136
				(1)	2768CW STL SPANS		23559	





REINFORCEMENT SCHEDULE				
	MARK	NO.	LENGTH	PIN DIA
SLAB	S401	174	4'-0"	2"
	S501	156	30'-2"	STR.
	S601	13B	21'-4"	STR.
	S602	13B	20'-10"	STR.
	S402	24	28'-6"	STR.

For S401 bending diagram see dwg. no. 23586.



DEAD LOAD DEFLECTION DIAGRAM
SCALE NONE

NOTES:
1. For Typical Section of Deck, Typical Drawing No. 23586.
2. For Typical Joint Details, See Drawing No. 23589.
3. For Shoe Details, Modified Parapet Details and Reinforcing, See Drawing No. 23586.

Revised: For Widening @ Median Only. 2-11-82. [illegible] CK. GVA

SHEET 1 OF 1

DETAILS OF SPAN
I-30 OVER E. 7th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: M.B. DATE: 10-79
CHECKED BY: T.B.H. DATE: 2-30
DESIGNED BY: M. INNES DATE: 10-79
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 CW **DRAWING NO. 23559**

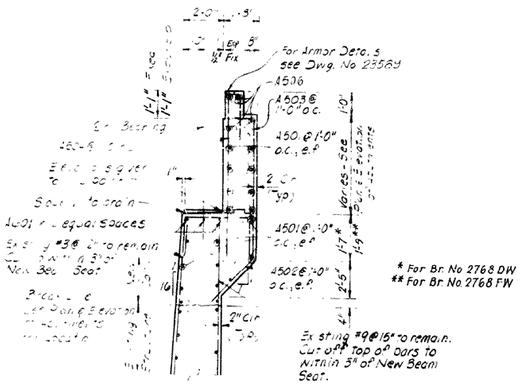
FOR INFORMATION ONLY

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.		061783	64	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

402

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-16-82				6	ARK.	IR-30-2(122)90	103	131
				JOB NO.		60023	108	136
				(1) 2768 EW, DW TYP DTLS ABUTS			23585	


For Armor Detail see Dwg. No 23584
#5@ 1'-0" O.C.
#5@ 1'-0" O.C.
#5@ 1'-0" O.C.

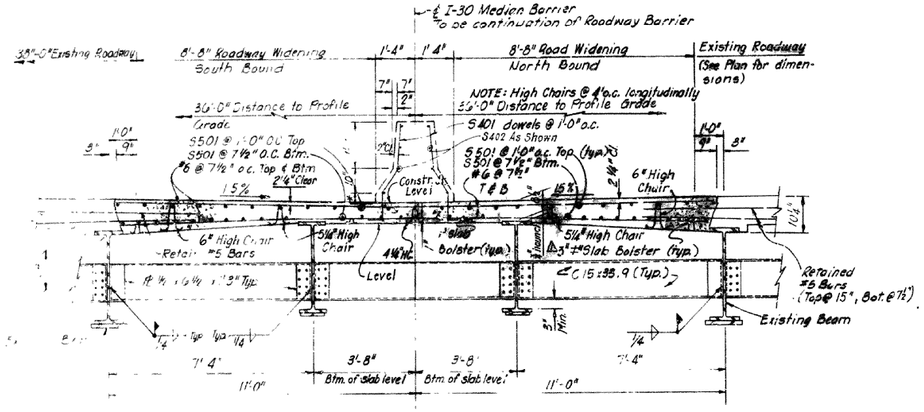
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	65	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

403

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-16-82	766-5718			6	ARK.	IR-30-2(122)	104	131
5-14-82				JOB NO.		60023	109	136

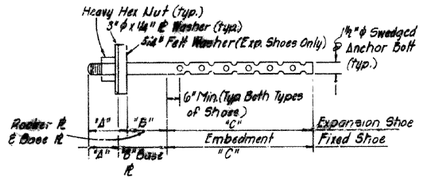
(1) 2768 AW, CW, DW, FW, GW, HW TYP DTLS 23586

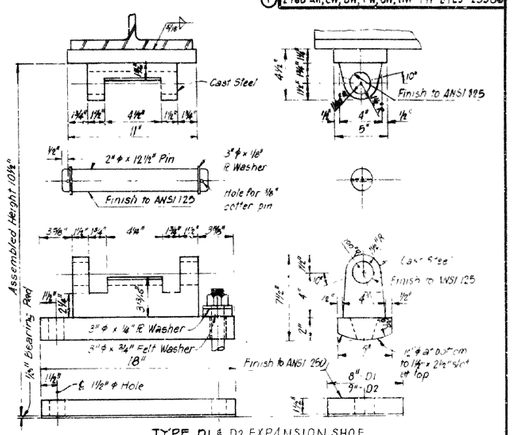


TYPICAL SECTION AT WIDENING

SCALE 1½" = 1'-0"

Note: See dwg. no. 23589 for additional details.



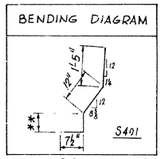


TYPE DI & D2 EXPANSION SHOE

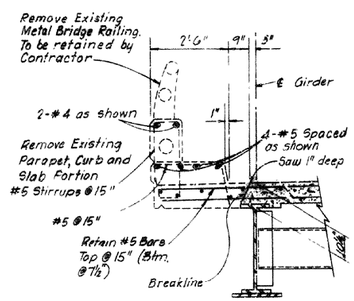
SCALE: NONE

BR NO	*	**
2768 AW	6½"	13"
2768 CW	6½"	13"
2768 DW	4½"	11"
2768 FW	4½"	11"
2768 GW	6½"	13"
2768 BW	4½"	11"
2768 EW	4½"	11"

BENDING DIAGRAM



NOTE: Dimensions of Bars are out to out.

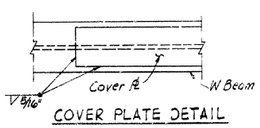


EXISTING BRIDGE-MEDIAN SIDE

SCALE: 1½" = 1'-0"

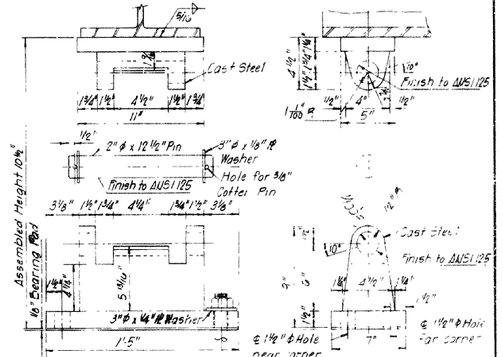
TABLE OF ANCHOR BOLT VARIABLES				
TYPE OF SHOE	BOLT LENGTH	"A"	"B"	"C"
Expansion D1 & D2	2'-1⅛"	3½"	3⅝"	1'-6"
Fixed D1	1'-11⅜"	2¾"	1⅝"	1'-7"
* Expansion D6	2'-10⅜"	3½"	5⅞"	2'-1"
* Fixed E6	2'-7⅛"	2¾"	2⅜"	2'-2"
* Fixed F1	2'-1⅛"	3½"	3⅝"	1'-6"
* Expansion F2	2'-1⅛"	3½"	3⅝"	1'-6"

* See Dwg. No. 23571



COVER PLATE DETAIL

Scale: None



TYPE D1 FIXED SHOE

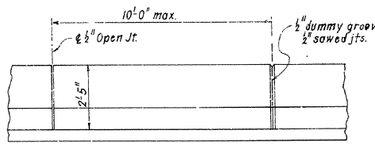
SCALE: NONE

Note: For Notes on Shoe Fabrication see Dwg. No. 23571.

LOAD DISTRIBUTION-E. 9TH & E. 13TH STREETS	
	Median Girder
Dead Load Composite	897 PLF + BM. WT. & CVR. WT.
Dead Load Composite Includes 20 psf for Future Wearing Surface	319 PLF
Live Load to Composite Girder	1256 Wheels + Impact

LOAD DISTRIBUTION-E. BROADWAY, E. 7TH & E. 13TH	
	Median Girder
Dead Load Non-Composite	933 PLF + BM. WT. & CVR. WT.
Dead Load Composite Includes 20 psf for Future Wearing Surface	319 PLF
Live Load to Composite Girder	1257 Wheels + Impact

* Service Loads



Note: Dummy Jts. to be placed between all Open Jts. as shown.

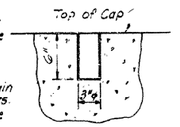
TYP. JOINT DETAIL FOR MEDIAN BARRIER

N.T.S

NOTE 5:

1. As an alternate to pouring caps with Anchor Bolts in place, the Contractor may drill and grout Anchor Bolts after Pier construction is complete. If this alternate is chosen, metal sleeves shall be set or Anchor Bolt locations with templates securely fastened to the cap forms. Adjust spacing of top reinforcement in cap for placement of Anchor Bolts or Sleeves. Maintain and minimum spacing of 3" center to center of bars. The Sleeves shall be filled with concrete and have the minimum dimensions shown. Sleeve will not be paid for directly, but will be considered suosidiary to the Item "Class S Concrete."

* 2. See EXISTING BRIDGE-MEDIAN SIDE Detail this sheet for Existing Bridge conditions.



ANCHOR BOLT SLEEVE DETAIL

Scale: None

⚠ Revised: Slab Bolstor Ht. & Table Addition. 5-14-82. H. May.

Revised: For Widening @ Median Only. 2-16-82. H. May. C.M. GVA

SHEET 1 OF 1

TYPICAL DETAILS

I-30 OVER E. BROADWAY, E. 7th, E. 9th, E. 13th, E. 15th & E. 19th STREETS

BRIDGE WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: D.E.H. DATE: 11-79

CHECKED BY: T.B.H. DATE: 2-80

DESIGNED BY: P.L./M.M.A. DATE: 11-79

SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 AW, CW, DW, FW, GW, HW DRAWING NO. 23586

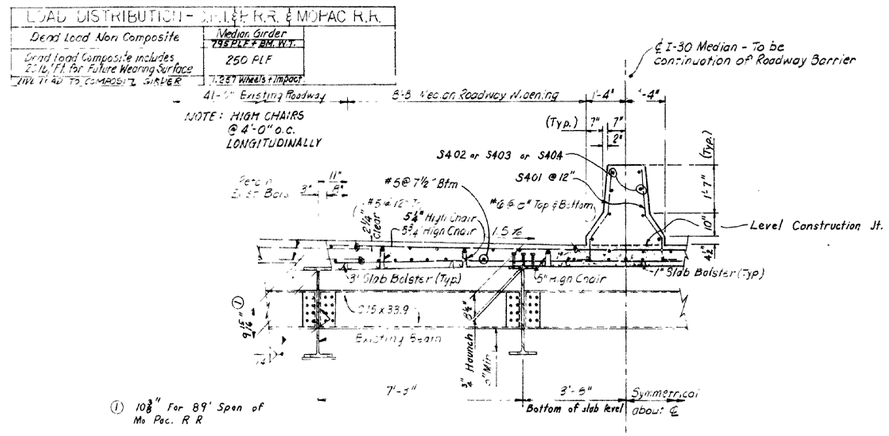
FOR INFORMATION ONLY

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.		061783	66	123
				(1) SITE NO. 5 - FOR INFORMATION ONLY				

404

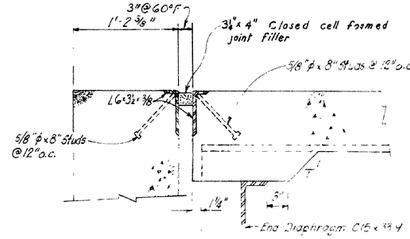
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-17-82				6	ARK.	IR 30-2(122)Mo	105	131
				JOB NO.		60023	110	136
				(1) 2768BW,EW TYPICAL DETAILS			23587	

LOAD DISTRIBUTION - C.R.I.&P. R.R. & MOPAC R.R.	
Dead Load Non Composite	Median Girder 793 PLF ± BM. WT.
Dead load composite includes 2-1/4" FT. for Future Wearing Surface	250 PLF
LIVE LOAD TO COMPOSITE GIRDER	HS20 Wheels + Impact



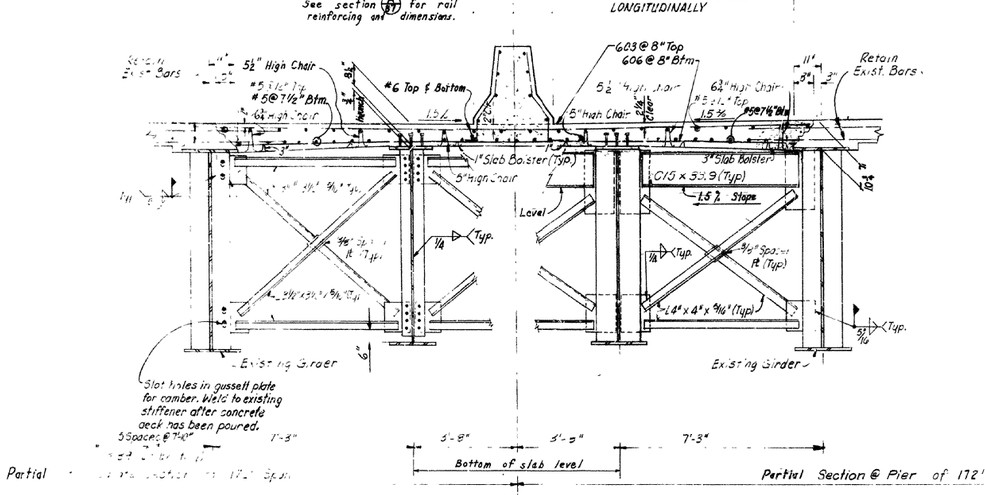
SECTION AT WIDENINGS FOR MO. PAC. & C.R.I.& P. RAILROAD

(A/87) Scale: ½"=1'-0"



(C/87) JOINT DETAIL - WIDENED SECTION SOUTH ABUTMENT MOPAC

Scale: 1½"=1'-0"



(B/87) SECTION AT WIDENINGS (THRU MAIN PL GIRDER)*

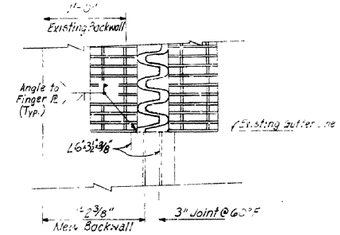
MISSOURI PACIFIC RAILROAD

Scale: ½"=1'-0"

* See section (A/87) for W-beam span cross section.

Revised for roadway widening at median only. 2-17-82 MEC

Checked by: MEW 3-8-82



PLAN - SOUTH ABUTMENT JOINT AT EXISTING GUTTER LINE - MOPAC

Scale: 1½"=1'-0"

SHEET 1 OF 1

TYPICAL DETAILS

I-30 OVER MISSOURI PACIFIC R.R. & C.R.I.&P. R.R.

BRIDGE WIDENING

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: D.E.M. DATE: -79
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: P.L. DATE: 11-79
SCALE: As Noted

BRIDGE ENGINEER

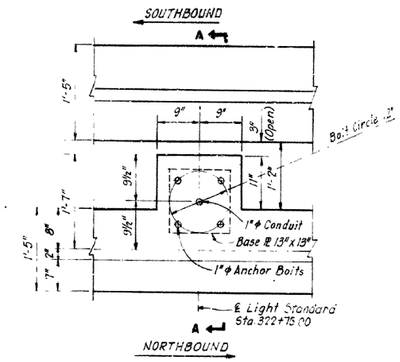
BRIDGE NO. 2768 BW, EW DRAWING NO. 23587

FOR INFORMATION ONLY

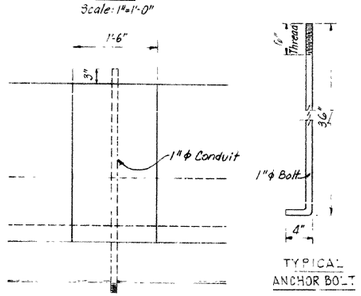
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	67	123
				①	SITE NO. 5 - FOR INFORMATION ONLY			

405

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-18-82				6	ARK.	IR-30-2(122)40	106	131
				JOB NO.		60023	111	136
				①	2768HW		STP 07-5	23588



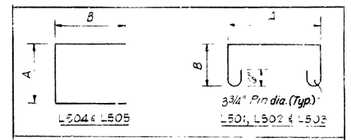
PLAN
Scale: 1"=1'-0"



ELEVATION
Scale: 1"=1'-0"

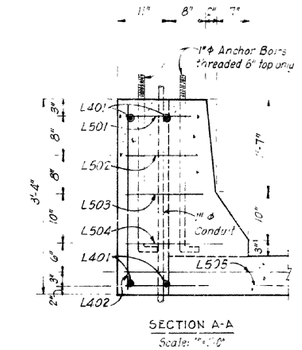
TYPICAL ANCHOR BOLT

BAR LIST



BAR LIST FOR LIGHT STANDARD SUPPORT

MARK	NO. REQ'D.	LENGTH	A	B	PIN DIA
L401	4	1'-2"			1½"
L402	2	3'-0"			1½"
L501	1	4'-7"	1'-2"	1'-3½"	2¼"
L502	1	4'-9"	1'-2"	1'-3½"	2¼"
L503	1	4'-10"	1'-2"	1'-4"	2¼"
L504	1	5'-10"	1'-2"	1'-11"	2½"
L505	2	6'-10"	1'-2"	2'-11"	2½"



SECTION A-A
Scale: 1"=1'-0"

LIGHT STANDARD SUPPORT
MEDIAN BARRIER AT E. 19TH STREET

NOTE:
All Anchor Bolts shall be ASTM A36 Steel and Galvanized to conform to ASTM Specification Designation A153.

Revised: For Widening @ Median Only 2-18-82 K.Maj. CK. GVA

SHEET 1 OF 1

TYPICAL DETAILS
PARAPET RAILING AND LIGHT STANDARD SUPPORT
I-30 BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: GSS DATE: 2-82
CHECKED BY: GVA DATE: 2-82
DESIGNED BY: WWA DATE: 2-82
SCALE AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 2768 HW DRAWING NO. 23588

FOR INFORMATION ONLY

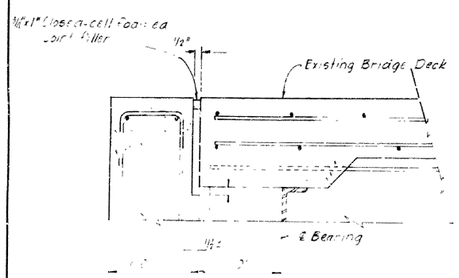
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	68	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

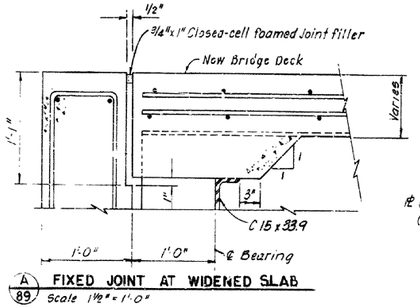
406

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-16-82				6	ARK.	IR-40-1(122)140	107	131
				JOB NO.		60023	112	136

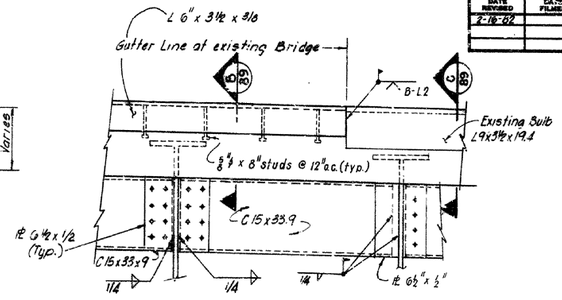
(1) 2763 AW-HW TYP DTLS SPANS 23589



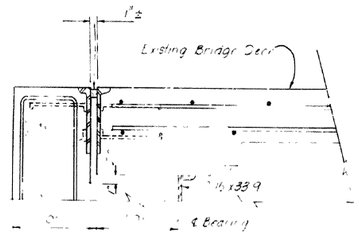
(D/89) FIXED JOINT AT EXISTING SLAB



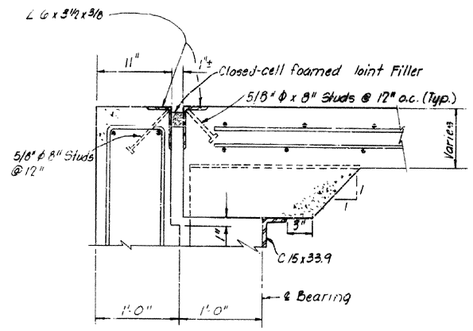
(A/89) FIXED JOINT AT WIDENED SLAB
Scale 1½" = 1'-0"



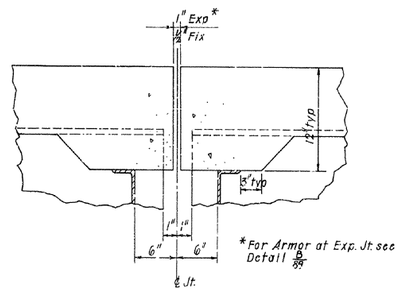
EXPANSION DEVICE
AT JUNCTION OF EXISTING BRIDGE WITH NEW ADDITION
Scale: 1"=1'-0"



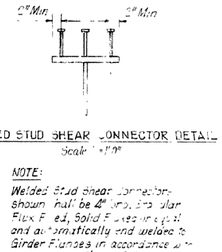
SECTION A-A
(C/89) EXPANSION JOINT AT EXISTING SLAB
Scale ½" = 1'-0"



SECTION B-B
(B/89) EXPANSION JOINT AT WIDENED SLAB
Scale: 1½" = 1'-0"



TYP. JOINT DETAIL AT WIDENED SLAB OVER PIER
N.T.S.



WELDED STUD SHEAR CONNECTOR DETAIL
Scale: 1"=1"

NOTE:
Welded stud shear connectors shown shall be 4" min. circular Flux Fed, Solid Extruded Steel and automatically end welded to Girder Flanges in accordance with recommendations of the manufacturer. ¾" diameter studs may be substituted for the ⅞" diameter studs at the ratio of .37 - ¾" Studs in place of 1-⅞" Stud. The ⅞" shall be used as the basis of payment at 31.0 lbs per one hundred studs.

NOTES:

1. Angles, channels, extrusions and joint fillers are continuous across the web on all structures except 19th Street.
2. Size of Closed-cell Foamed Joint Filler will depend on existing joint opening as follows:

Joint width	Normal size filler
½"	¾" x 1"
Over ½" - ¾"	1" x 1½"
Over ¾" - 1"	1¼" x 2"
Over 1" - 1½"	1¾" x 2"
Over 1½" - 2"	2" x 2½"
Over 2" - 3"	3" x 4"

Opening size shall be measured at 50°F - 70°F temp range.
3. Joint Filler to be installed with two-component epoxy See Job Special Provisions.

Revised: For Widening @ Median Only. 2-16-82. M.E.Maj. C.K.G.V.A.

DETAILS OF SPANS
BRIDGE WIDENING
TYPICAL JOINT DETAILS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.E.H. DATE: 10-79
CHECKED BY: T.B.H. DATE: 10-79
DESIGNED BY: T.B.H. DATE: 10-79
SCALE: As Noted

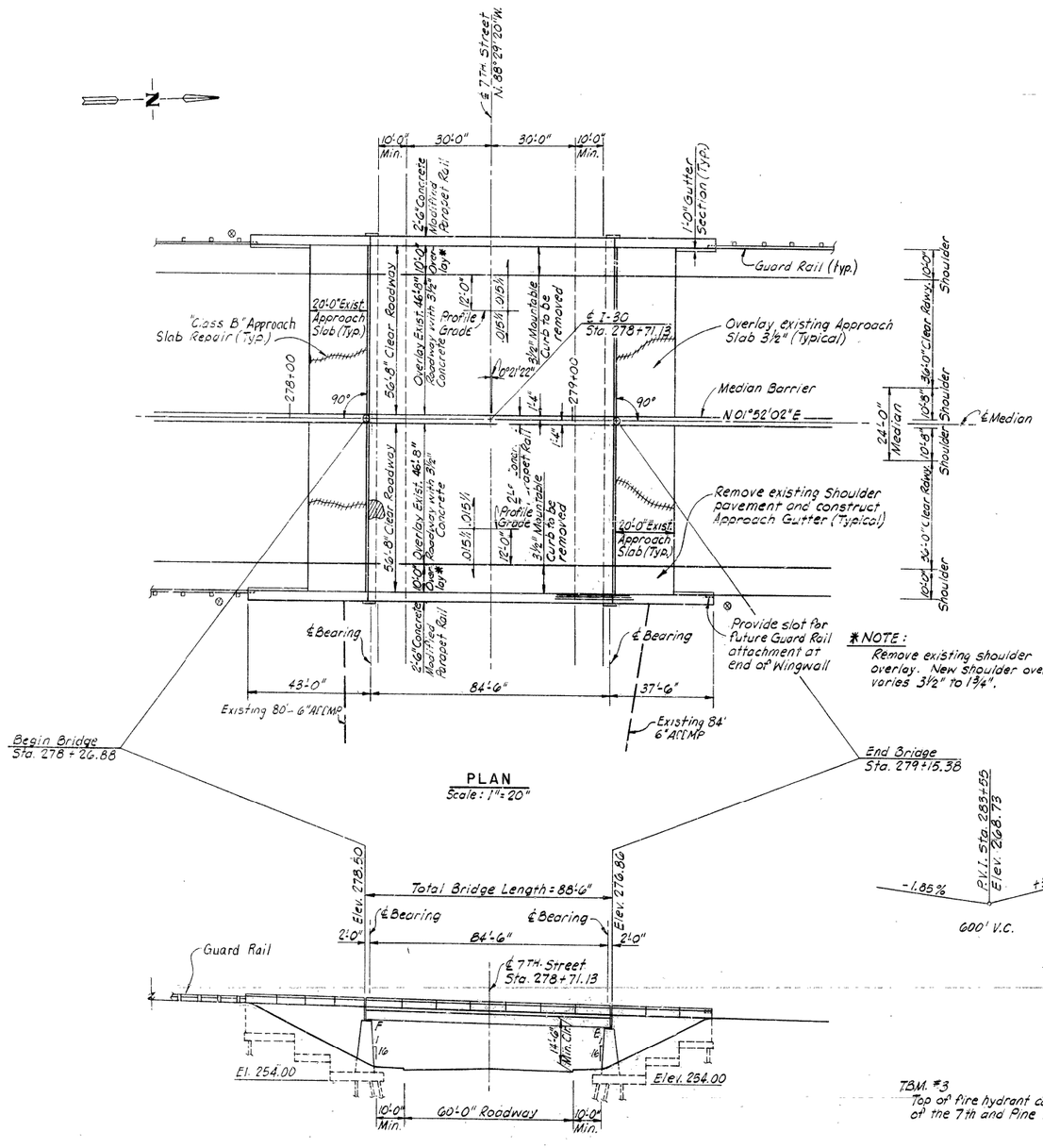
BRIDGE ENGINEER
BRIDGE NO. 2768 AW-2768 HW
DRAWING NO. 23589

FOR INFORMATION ONLY

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.		061783	69	123
				(1)	SITE NO. 5 - FOR INFORMATION ONLY			

316

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(117)141		
				JOB NO.		60255	63	127
				(1)	2768CW - LAYOUT - 25797			



Legend:
(1) - "Class A" Bridge Repair - See Drwg. No. 25828.

NOTES:
1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations with 3½" Concrete Overlay.
3. For Typical Approach Gutter Details, see Drawing No. 25830.
4. For Guard Rail Attachment Details, see Drawing No. 25789.
5. For Details of Bridge Floor Repairs see Drawing No. 25828.
6. For Abutment Modification Details see Drwg. No. 25798.
7. For Span Modification Details see Drwg. No. 25799.

*NOTE: Remove existing shoulder overlay. New shoulder overlay varies 3½" to 1¾".

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 with current Interim Specifications.

Design Live Loading: HS20 and Special Interstate Loading of two 24,000 Lb. axles spaced at 4'0" on centers.

Unit Stresses: New Construction

Class S Concrete	f'c = 3,500 p.s.i.
Class S(AE) Concrete	f'c = 3,500 p.s.i.
Reinforcing Steel (Grade 60)	Fy = 60,000 p.s.i.
Structural Steel A-36	Fy = 36,000 p.s.i.
Structural Steel A 572 (Gr. 50)	Fy = 50,000 p.s.i.

Method of Design: Load Factor

T.B.M. #3 Elev. 260.19
Top of fire hydrant cap at N.E. corner of the 7th and Pine intersection.

LAYOUT OF
I-30 OVER E. 7th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE I-30 SEC. 23
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 5-79
CHECKED BY: T.B.H. DATE: 8-80
DESIGNED BY: T.B.H. DATE: 9-79
SCALE: As Noted

Verna L. Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 CW DRAWING NO. 25797

FOR INFORMATION ONLY

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.		061783	70	123

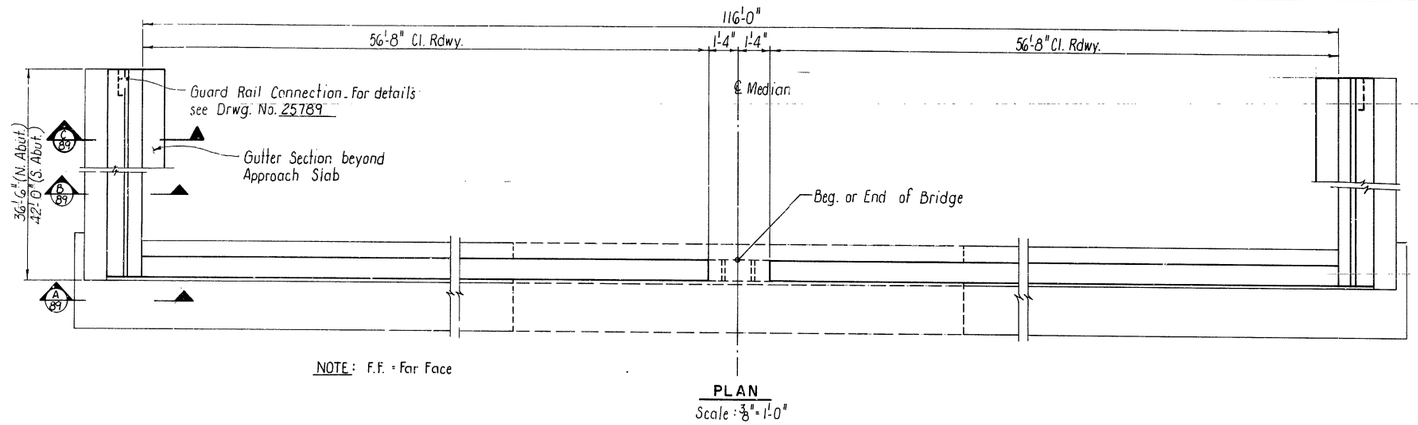
(I) SITE NO. 5 - FOR INFORMATION ONLY

A.F. 7600

317

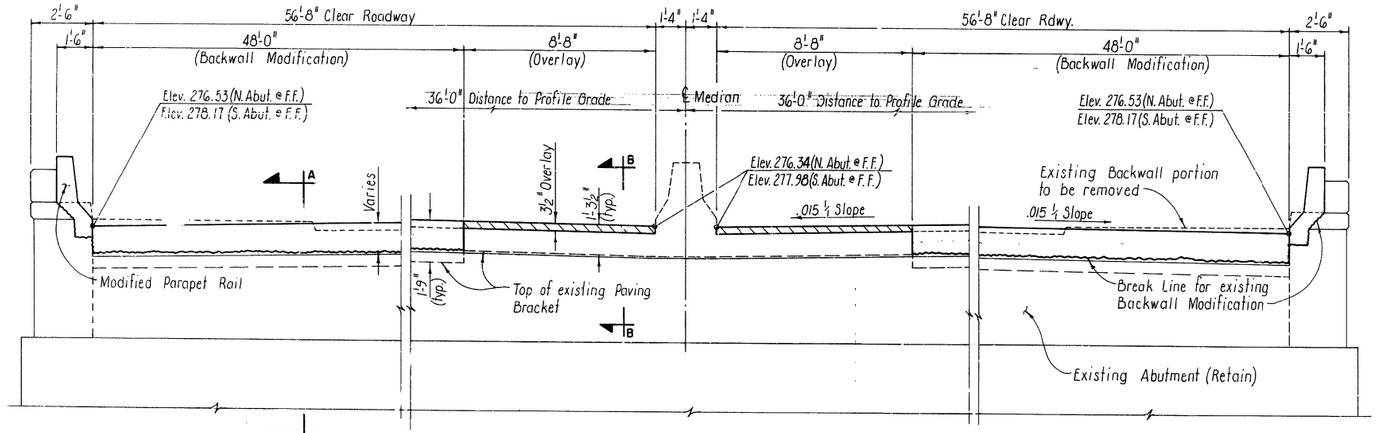
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(70)141		
				JOB NO.		60255	64	127

(I) 2768CW - ABUT. DTLS. - 25798

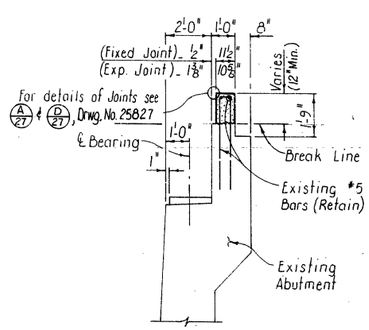


NOTE: F.F. = Far Face

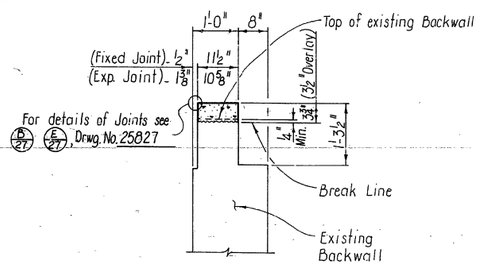
PLAN
Scale: 3/8" = 1'-0"



FRONT ELEVATION
Scale: 3/8" = 1'-0"



SECTION A-A
Scale: 3/8" = 1'-0"



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

DETAILS OF ABUTMENTS
I-30 OVER E. 7TH. STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 1-6-83
DESIGNED BY: ____ DATE: ____
SCALE: AS NOTED

Brad Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768CW **DRAWING NO.** 25798

FOR INFORMATION ONLY

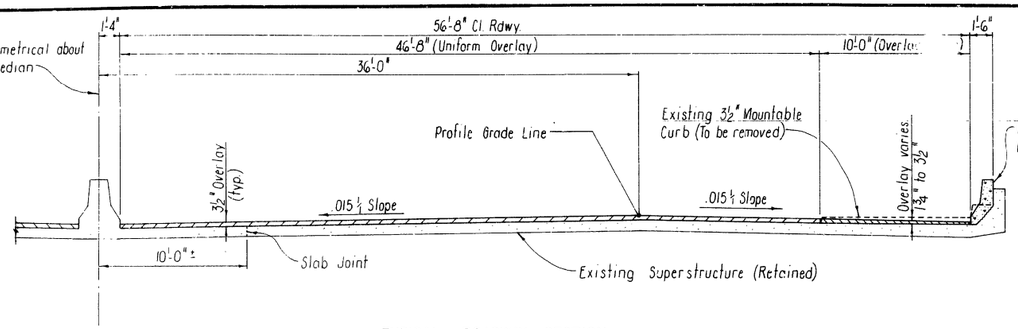
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	71	123

(1) SITE NO. 5 - FOR INFORMATION ONLY

318

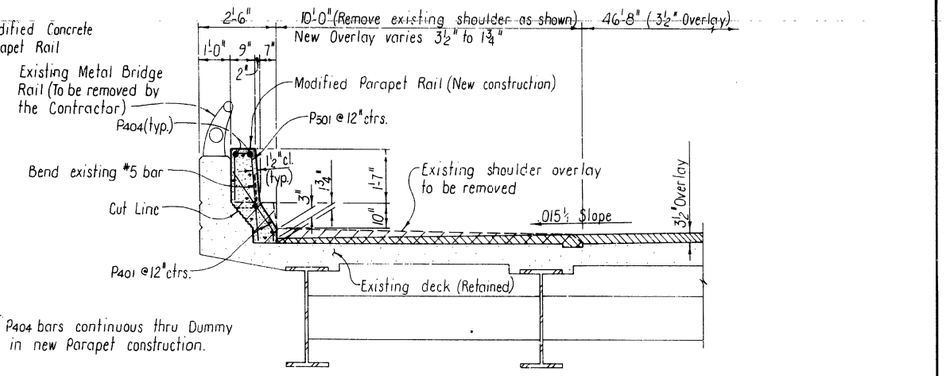
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(174)141		
				JOB NO.		60255	65	127

(1) 2768CW - SPAN DTLS. - 25799



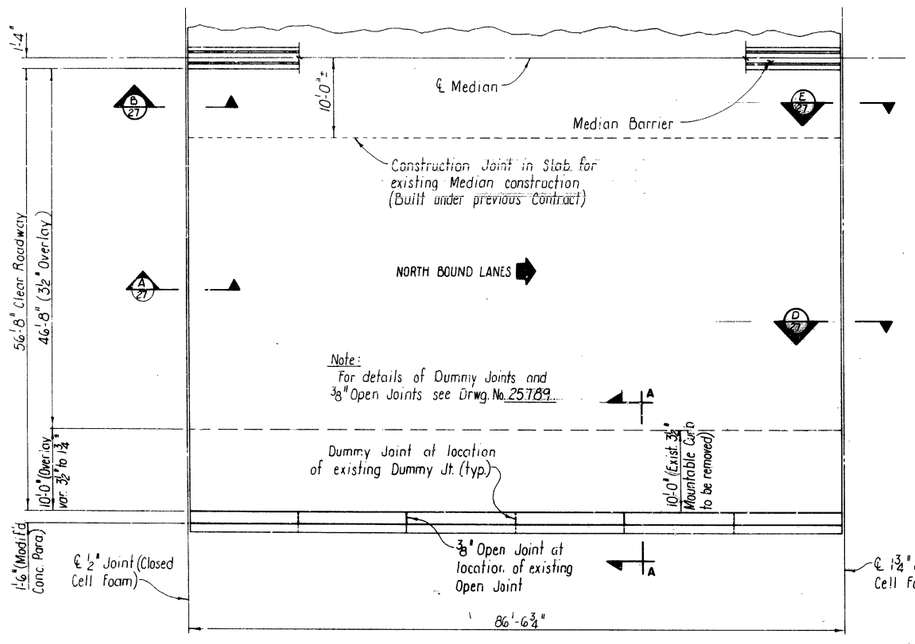
TYPICAL ROADWAY SECTION
No Scale

Note:
The Metal Bridge Railing shall become the property of the State.



Note:
Run P404 bars continuous thru Dummy Joints in new Parapet construction.

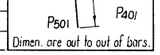
SECTION A - A
Scale: ½"=1'-0"



PLAN
No Scale
(Northbound Lanes shown; Southbound Lanes similar)

BAR LIST FOR MODIFIED PARAPET RAIL

MARK	No. Req'd.	LENGTH	PIN DIA.	BENDING DIAGRAMS
P404	690 Lin. Ft.		Str.	
P401	174	2'-4"	2"	
P501	174	4'-3"	2½"	



Dimen. are out to out of bars.

Note: Field cut P404 bars after location of ⅜" Open Joints are verified.

DETAILS OF SPAN
I-30 OVER E. 7TH. STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-6-83
DESIGNED BY: DATE:
SCALE: AS NOTED

Neal Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768CW DRAWING NO. 25799

FOR INFORMATION ONLY

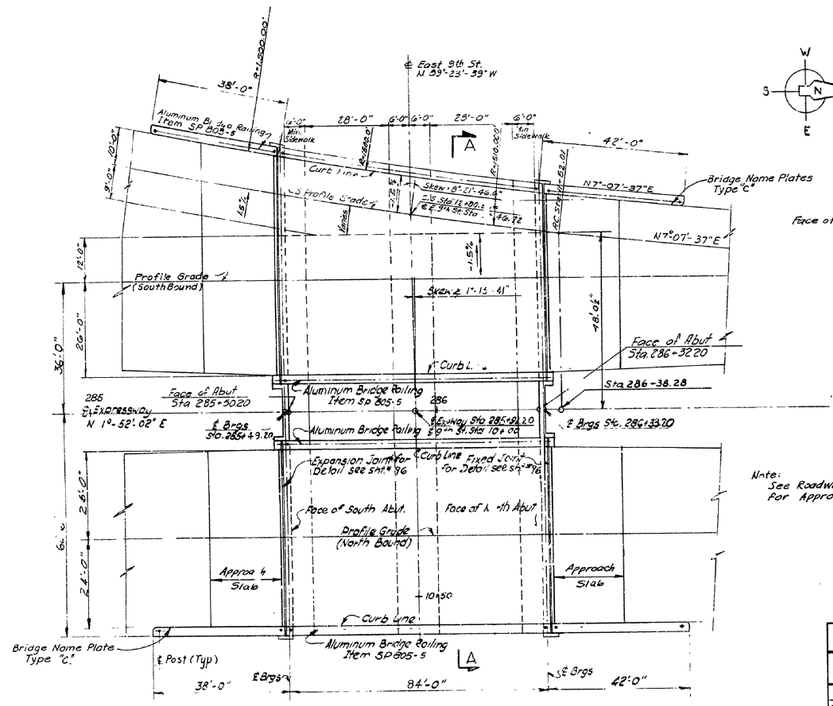
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	72	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

432

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		71	144
JOB NO. 6596					

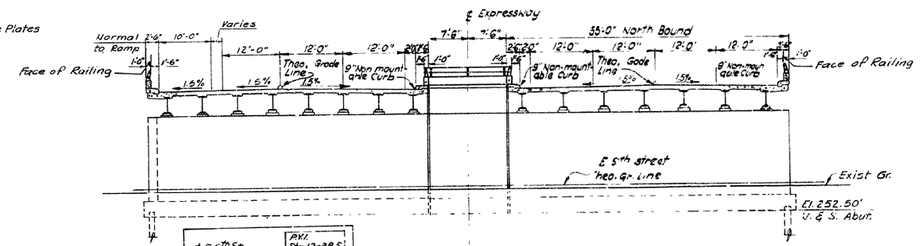
FED. AID PROJ. I-30-2(29)141



PLAN

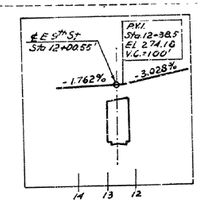
Scale 1" = 1'-0"

Note: See Roadway Plan for Approach Slabs



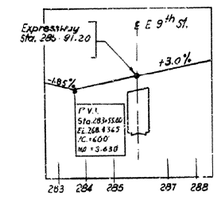
SECTION A-A

Scale 1" = 1'-0"



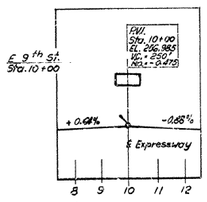
RAMP C.S. PROFILE

Scale: Horiz 1" = 200'
Vert 1" = 20'



EXPRESSWAY PROFILE

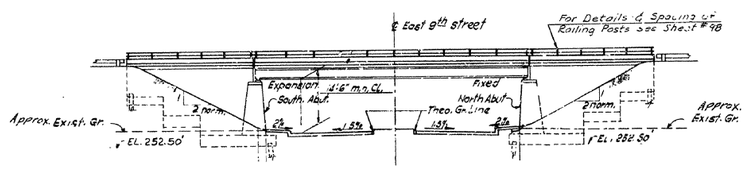
Scale: Horiz. 1" = 200'
Vert. 1" = 20'



E 9th ST PROFILE

Scale: Horiz. 1" = 200'
Vert. 1" = 20'

Note: For lighting work on this sheet see sheet # 120.



ELEVATION

Scale 1" = 1'-0"

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	SOUTH ABUT.	SPAN	NORTH ABUT.	TOTAL QUANTITIES
103	Dry Excavation for Structures	C.Y.	290		230	520
SP 125-1	Special Compaction of Earthwork	C.Y.	6320		6960	13280
SP 126-2	Embankment Material (Class EM-1)	C.Y.	6320		6960	13280
SP 127-1	Bagged Screened Gravel	C.Y.	113		130	245
SP & 602	Class A Concrete for Bridges	C.Y.	570		620	1190
SP & 602	Class S Concrete for Bridges	C.Y.	4	281	4	289
SP & 803	Reinforcing Steel	LB.	31,874	48,376	36,730	116,980
* SP 803-6	Shear Connectors	LB.		2700		2700
SP 804-4	Bearing Piles	L.F.	4680		4836	9516
SP 806-5	Aluminum Bridge Railing	L.F.	85	340	97	526
SP & 807	Structural Steel in Beam Spans	LB.		372,400		372,400
SP 860-2	Damp Proofing	S.F.	3270		3585	6855
SP 911-2	6" Dia. Bridge Underdrain	L.F.	185		185	370
929	Bridge Name Plate - Type "C"	EA.	1		1	2

*Quantities shown for Shear Connectors are based on Spiral Bar Shear Connectors. See Special Provisions.

REFERENCES:

General Notes - Sheet #4
Joint Details - Sheet # 96
Architectural Details - Sheet # 92
Railing Details - Sheet # 98
Embankment Const. - Sheet # 100
Excavation - Sheet # 101
Boring Logs - Sheet # 95
Bridge Name Plate - Sheet # 115

Note: Revised 1-4-50 to show new type Aluminum Bridge Railing. C.E.V.
Revised quantities for change to new type Aluminum Bridge Railing. L.H.T. 1-8-60.

Revised lighting work note. R.L.C. 1-18-60

In Charge Of W.A. Walsh, Jr.
Made By P.S.D.S.K.D.V.
Traced By J.C.
Checked By W.A.W.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 9TH ST
NORTH LITTLE ROCK
STRUCTURE NO. 26
GENERAL PLAN & SECTIONS

Revised	6-15-59	DWG. NO. 127-B G012	SCALE as shown	DATE 2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS

Drwg. No. 10896

FOR INFORMATION ONLY

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.		061783	73	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

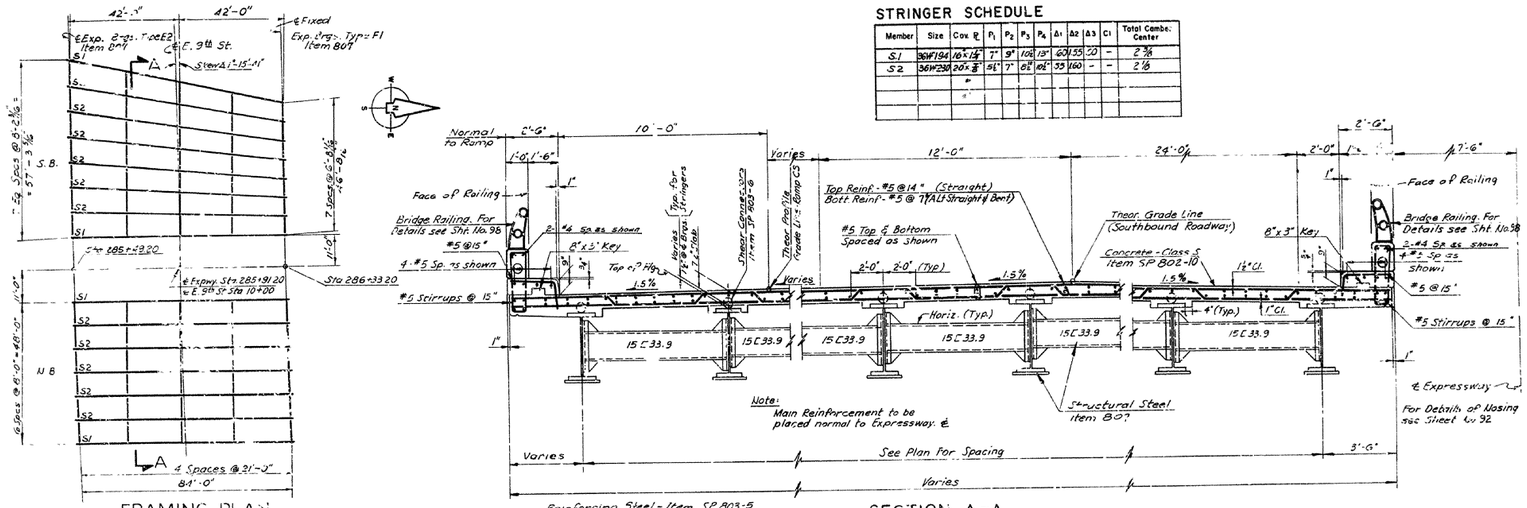
433

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		72.	144
JOB NO. 6596					

FED. AID PROJ. I-30-2(20)141.

STRINGER SCHEDULE

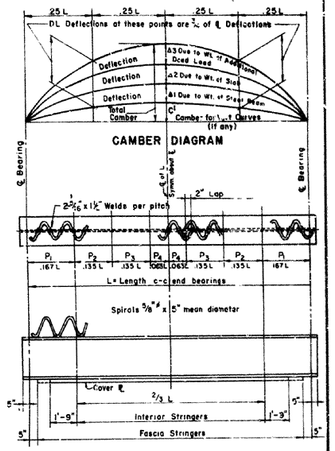
Member	Size	Cov. ℄	P_1	P_2	P_3	P_4	Δ_1	Δ_2	Δ_3	C_1	Total Cambe: Center
S1	36WF194	10"x1½"	7"	9"	10"	13"	60	55	20	-	2 3/8
S2	36WF230	20"x⅞"	5½"	7"	8½"	10½"	35	160	-	-	2 1/8



FRAMING PLAN
Scale: 1" = 20'

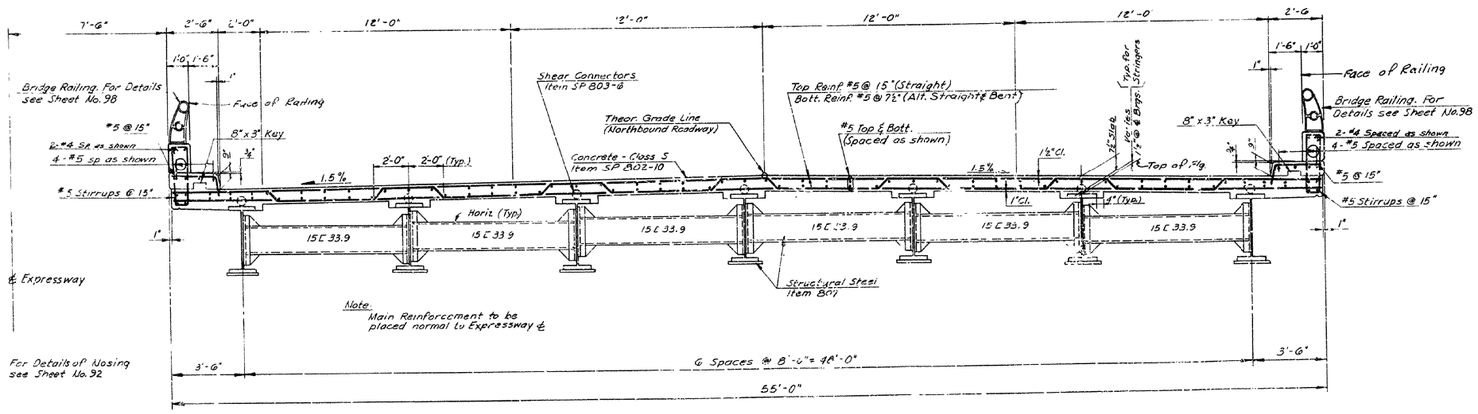
SECTION A-A
SOUTHBOUND ROADWAY
Scale: ⅜" = 1'-0"

Note: All Diaphragms 15 C 33.9



PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS
Not to Scale



SECTION A-A
NORTHBOUND ROADWAY
Scale: ⅜" = 1'-0"

For ℄ Skew Conn. Details, For End Skew Conn. Details, For Bearing Details, For Shear Connectors — See Sheet No. 93

General Arrangement and Sections see Sheet No. 71

Note: For lighting work on this sheet see sheet #120.

Note: Revised 1-5-60 to show new type Aluminum Bridge Railing. C.E.W.

Revised lighting work note. R.L.C. 1-18-60

In Charge Of J. A. Walsh, Jr.
Made By L. P.
Traced By L. P.
Checked By H. G.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 9th ST.
NORTH LITTLE ROCK
STRUCTURE NO. 26
FRAMING PLAN

Revised	6-15-59	DWG. NO. 121-P 6018	SCALE As Noted	DATE 2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS

Drwg. No. 10597

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

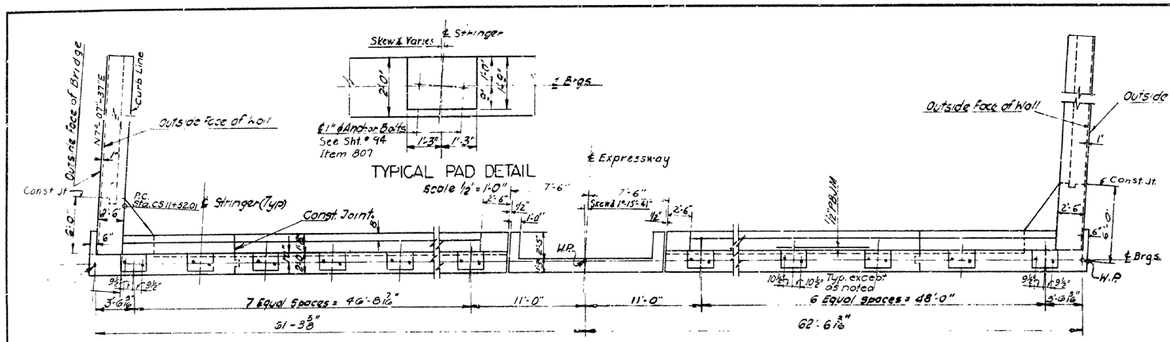
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	74	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

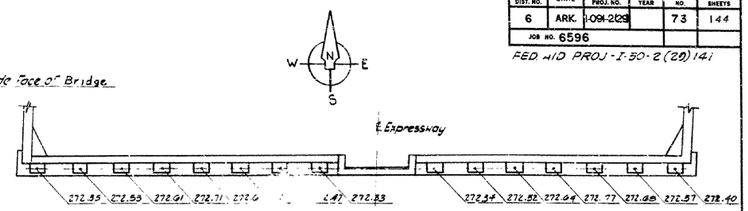
434

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		73	144
JOB NO. 6596					

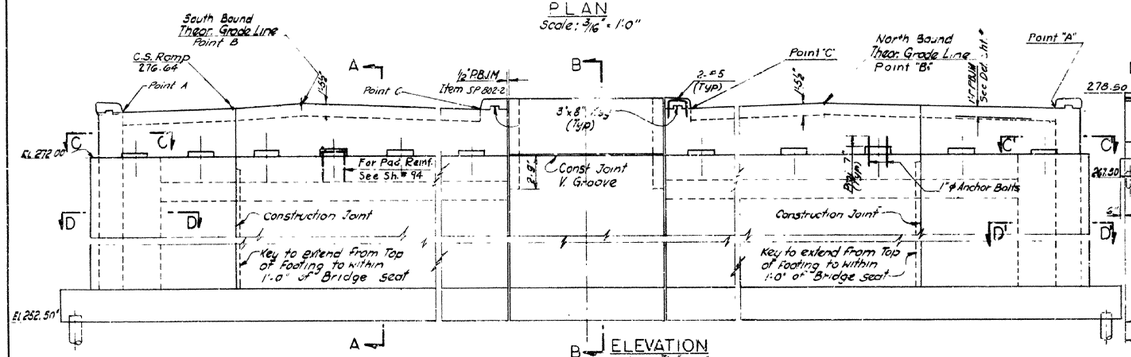
FED AID PROJ - I-30-2(29)141



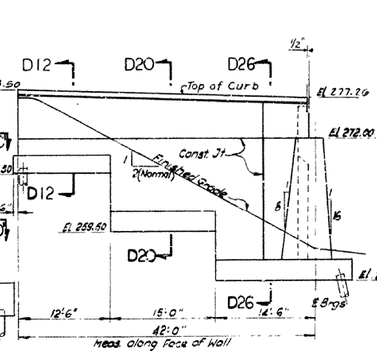
TYPICAL PAD DETAIL
scale 1/2" = 1'-0"



KEY PLAN
Top of Pad Elevations
Not to scale

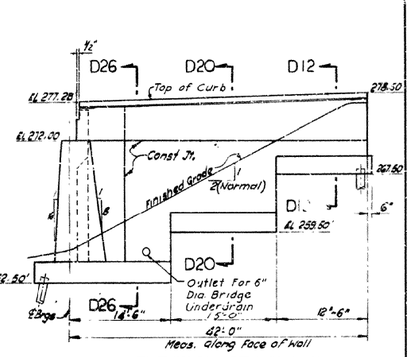


ELEVATION
Scale 3/16" = 1'-0"

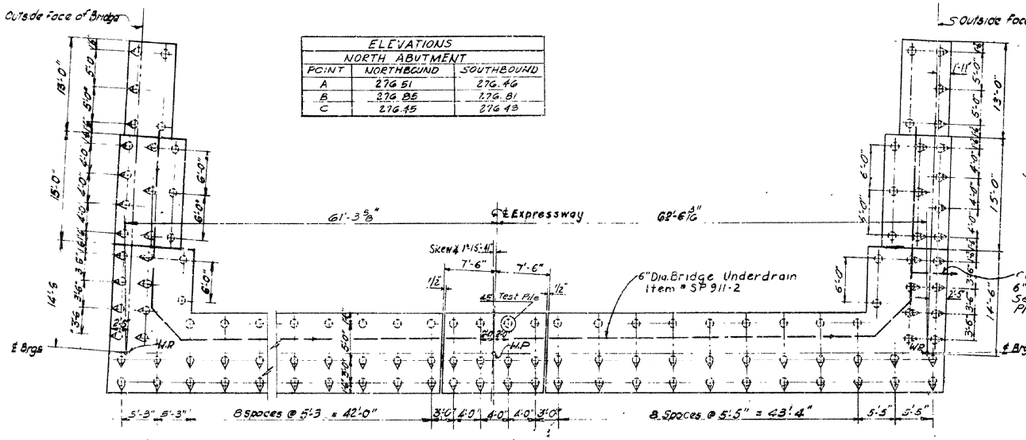


ELEVATION OF WINGWALL
Scale 1/8" = 1'-0"
North-West as shown & noted

For Architectural treatment of walls see sht # 92

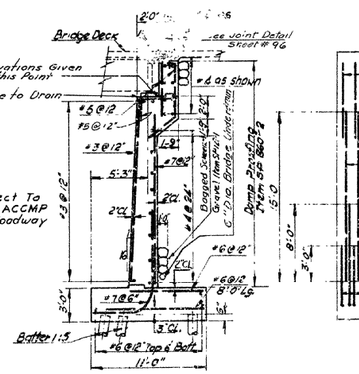


ELEVATION OF WINGWALL
Scale 1/8" = 1'-0"
North-East as shown & noted.



ELEVATIONS NORTH ABUTMENT		
POINT	NORTHBOUND	SOUTHBOUND
A	276.51	276.46
B	276.86	276.81
C	276.45	276.43

PLAN OF FOOTING
Scale 1/8" = 1'-0"



SECTION A-A
Scale 3/16" = 1'-0"

Revised lighting work note. R.L.C. 1-18-60

REFERENCES:

For Sections Details of Wingwalls see sht # 97
For Section 'B-B' See sht # 96
For Sections C'-C, C'-C'; D-D, D'-D' see Sheet # 94

Notes:
Estimated average length of Piles - Abutment 40'±
Wingwalls 50'±
Max Load per Pile 40 Tons
All Piles are Bearing Piles Item SP 804-4
Concrete Class 'A' Item # 802-10
All Reinforcing Steel - Item SP 803-5
For Bearing Pile Details See Sheet # 95 & # 95A

Note: For lighting work on this sheet see sheet # 120.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 9TH ST.
NORTH LITTLE ROCK,
STRUCTURE NO. 26
NORTH ABUTMENT

DWG. NO.	SCALE	DATE	
181-B 6014	as shown	2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS
Revised 6-15-59			

In Charge Of J. A. Walsh
Made By R. Shishov
Traced By L.P.
Checked By C.B.

Drwg. No. 16,893

FOR INFORMATION ONLY

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.		061783	75	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

435

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	(09)(29)		74	144
6596					

FED AID PROJ. I-30-2 (20) 141

ELEVATIONS SOUTH ABUTMENT		
POINT	NORTHBOUND	SOUTHBOUND
A	274.36	274.02
B	274.11	274.63
C	274.31	274.30

TYPICAL PAD DETAIL
Scale: 1/2"=1'0"

PLAN
Scale: 3/16" = 1'-0"

KEY PLAN
Top of Pad Elevations
Not to scale

ELEVATION
Scale 3/16" = 1'-0"

ELEVATION OF WINGWALL
Scale 1/8" = 1'-0"
South-East as shown & noted

ELEVATION OF WINGWALL
Scale 1/8" = 1'-0"
South-West as shown & noted

For Architectural Treatment of Walls see Sht. # 92

PLAN OF FOOTING
Scale 1/8" = 1'-0"

SECTION A-A
Scale 3/16" = 1'-0"

REFERENCES:
For Sections Details of Wingwalls see sht # 97
For Section B-B see sht # 94
For Sections C-C, C'-C'; D-D, D'-D' see Sheet # 94

Notes:
Estimated length of Piles: Abutment 40'±
Wingwalls 50'±
Max Load per Pile 40 Tons
All Piles are Bearing Piles Item SP 804-4
Concrete Class A Item SP 802-10
All Reinforcing Steel - Item SP 803-6
For Bearing Pile Details See Sheet # 95 & 95A

Note: For lighting work on this sheet see sheet # 120.

Revised lighting work note. P.L.C. 1-10-60

CONTRACT 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 9TH ST.
NORTH LITTLE ROCK
STRUCTURE NO. 26
SOUTH ABUTMENT

ORIG. NO.	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
12148 6615	As shown	2-19-58	

Revised 6-15-59

Drwg. No. 10890

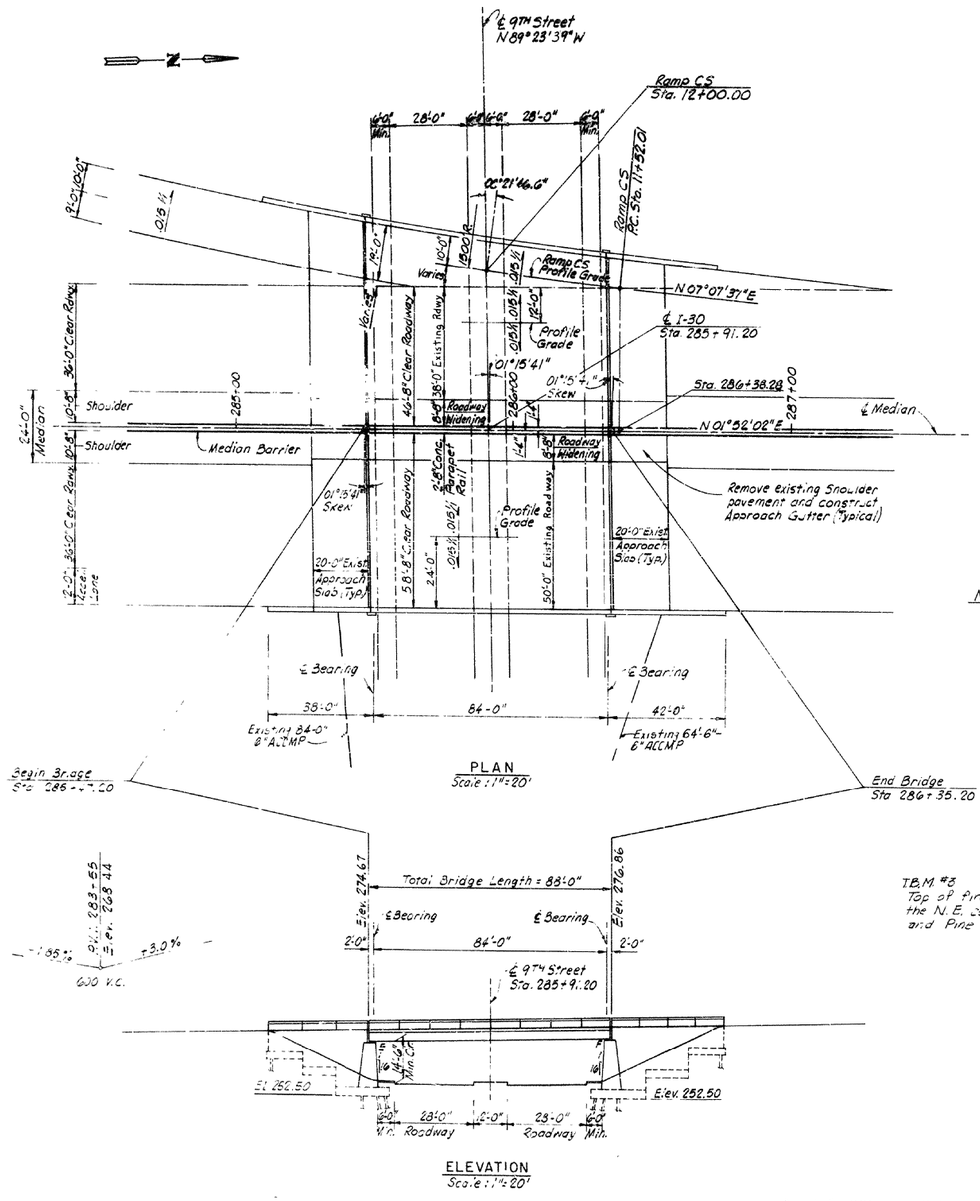
In charge of J. A. Walsh, Jr.
Made by P. SPASKOV
Traced by I.P.
Checked by H.G.

FOR INFORMATION ONLY

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.		061783	76	123
				(1)	SITE NO. 6 - FOR INFORMATION ONLY			

379

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-5-82				6	ARK.	I-30-2(122)140	80	131
				JOB NO.		60023	85	136
				(1)	2768DW LAYOUT OVER E 9TH 23560			



NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations
3. For Details of Approach Slabs and Gutters see Drawing No. 23591.
4. For General Notes see dwg. no. 23546

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 & 1978-1979 Interim Specifications.

Design Live Loading: HS20 and Special Interstate Loading of two 24,000 Lb. axles spaced 4'-0" on centers.

Unit Stresses: New Construction

Class S Concrete	f'_c = 3,500 p.s.i.
Class S(AE) Concrete	f'_c = 3,500 p.s.i.
Reinforcing Steel (Grade 60)	F_y = 60,000 p.s.i.
Structural Steel A-36	F_y = 36,000 p.s.i.
Structural Steel A 572 Gr. 50)	F_y = 50,000 p.s.i.

Method of Design: Load Factor

T.B.M. #8 Elev. 260.19
Top of Fire hydrant cap at the N.E. corner of the 7th and Pine intersection.

Revised: For Widening @ Median Only. 2-5-82. M.E.W. CK. GVA

LAYOUT OF
I-30 OVER E. 9th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY A.A.N. DATE 4-79
CHECKED BY T.B.N. DATE 5-80
DESIGNED BY T.B.T. DATE 3-79
SCALE 45 Notes

BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 23560

FOR INFORMATION ONLY

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.		061783	77	123

(I) SITE NO. 6 - FOR INFORMATION ONLY

380

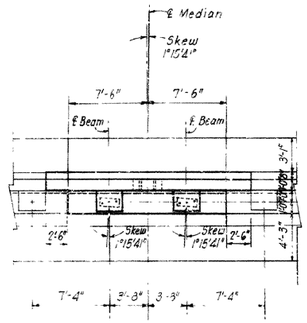
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
2-12-82			
6-11-82	537-6-N-82		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	IR-30-2(22)140	81	131
JOB NO.		60003	86	136

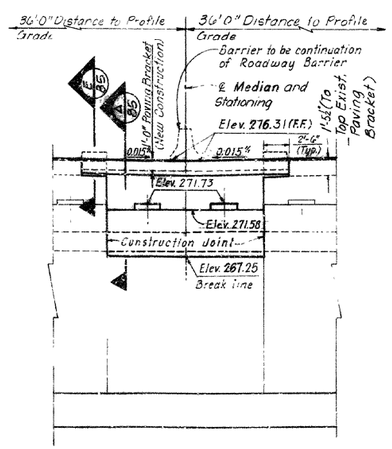
(I) 2768DW 0'-6 NORTH ABUT 23563

N

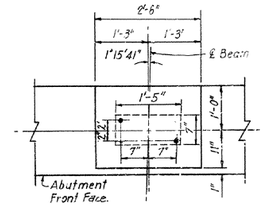
NOTE:
See Anchor Bolt Spacing, This sheet.



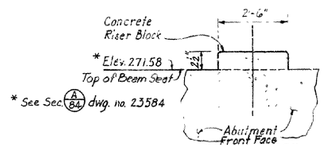
PLAN
Scale: 3/16"=1'-0"



ELEVATION
Scale: 3/16"=1'-0"



ANCHOR BOLT SPACING
TYPE D1 FIXED SHOE
Scale: None



RISER BLOCK
Scale: None

NOTES:
1. For Temporary Shoring see Sheet No. 23584 & 23585
2. [illegible] 23584.
3. [illegible] 23584 & dwg. no. 23585.
4. Heavy lines represent New Construction.

SHEET 1 OF 1

DETAILS OF NORTH ABUTMENT
I-30 OVER E. 9th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: C.S.E. DATE: 2-80
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: M.W.A. DATE: 1-80
SCALE: 1" = 1'-0"

Revised: ~~Bridge Shoe Anchor Bolt Details. 6-11-82~~ (D)
Revised: For Widening & Median Only. 2-12-82. M.E.W. C.K. G.V.R.

BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 23561

FOR INFORMATION ONLY

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.		061783	78	123

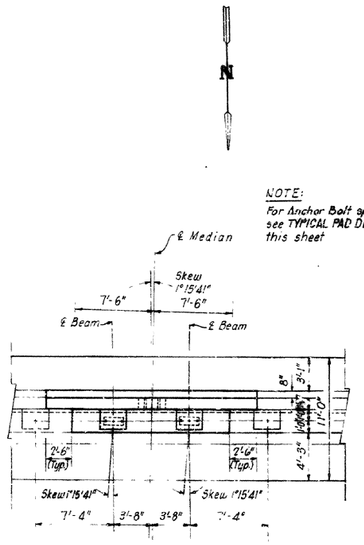
(1) SITE NO. 6 - FOR INFORMATION ONLY

381

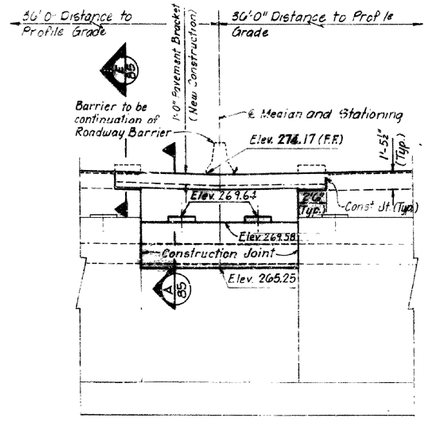
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
2-12-82			

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2(122)140	82	131
JOB NO.		60023	87	136

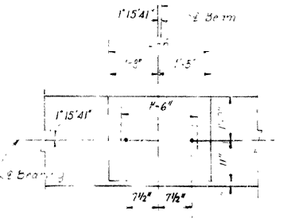
(1) 2768 DW DTLS SOUTH ABUT 23562



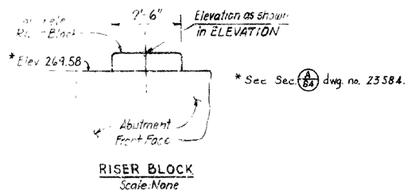
PLAN
Scale: 3/16" = 1'-0"



ELEVATION
Scale: 3/16" = 1'-0"



TYPICAL PAD DETAIL
Scale: 3/4" = 1'-0"



RISER BLOCK
Scale: None

NOTES:

1. For Reinforcing Schedule and Section see Drawing No 23584 & 23585.
2. For Typical Joint Details, see Drawing No 23589.
3. Heavy lines represent [illegible]

Revised: For Widening & Median Only. 2-12-82. M.E.W.

SHEET 1 OF 1

DETAILS OF SOUTH ABUTMENT
I-30 OVER E. 9th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: G.S.B. DATE: 2-80
CHECKED BY: T.D.H. DATE: 3-80
DESIGNED BY: M.W.A. DATE: 2-80
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 23562

FOR INFORMATION ONLY

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.		061783	79	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

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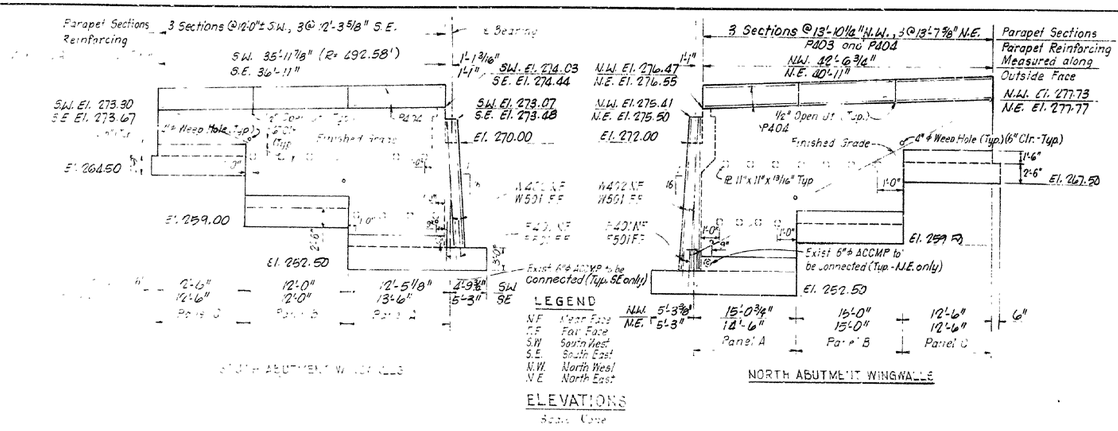
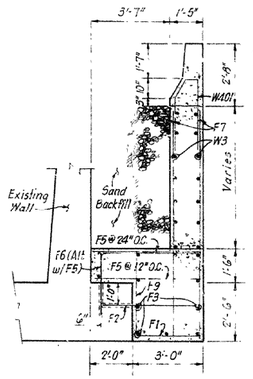
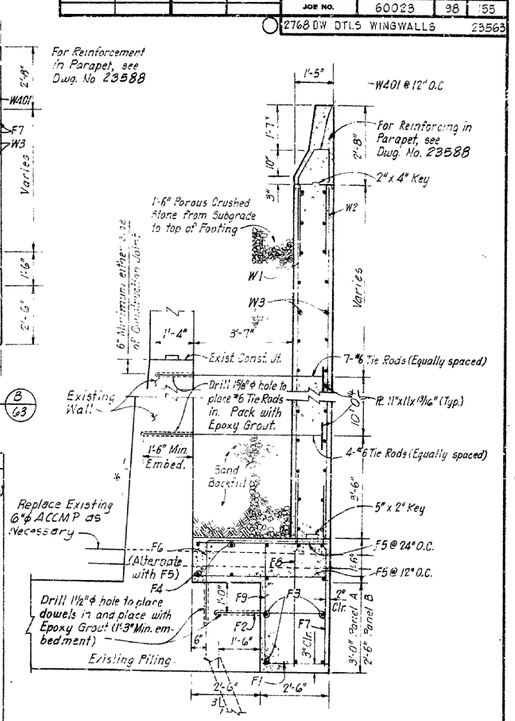
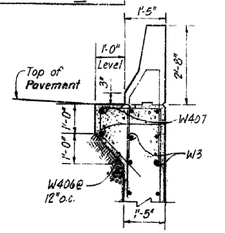
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-IR-30-2(1V2).32	86	144
				JOB NO.		60023	98	155
				2768 DW DTL.5 WINGWALLS				23563









Notes:
1. For Details of Parapet Reinforcement see Dwg No. 23588.
2. Porous Crushed Stone and Sand Backfill Shall Not be Paid for directly but shall be considered subsidiary to the item "UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGES" Approx. Quan. for N. Abut. Wingwall = 120.0 cu. yds.; S. Abut. Wingwall = 97.8 cu. yds.)
3. See Drawing No. 23562 for Location of Sections.

SOUTH ABUTMENT WINGWALL REINFORCING SCHEDULE
*SOUTHWEST WINGWALL

PANEL A SECT. A-A				PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO	LENGTH	SP	MARK	NO	LENGTH	SP	MARK	NO	LENGTH	SP
W1	W601	12	18'-1 1/2"	12"	W503	12	12'-11 7/8"	12"	—			
W2	W502	12	18'-1 1/2"	12"	W503	12	12'-11 1/2"	12"	—			
W3	W403	38	13'-3 1/2"	12"	W404	28	13'-8"	12"	W405	18	14'-2"	12"
F1	F502	18	2'-2"	12"	F502	13	2'-2"	12"	F508	14	2'-8"	12"
F2	F503	5	3'-7"	4.0 1/2"	F503	5	3'-7"	4.0 1/2"	F509	14	4'-1"	4.0 1/2"
F3	F402	5	16'-11"	A.S.	F404	5	11'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	11'-2"	A.S.	F404	9	11'-8"	A.S.	F405	7	12'-8"	A.S.
F5	F505	18	4'-8"	12 7/8"	F505	18	4'-8"	12 7/8"	F505	19	4'-8"	12 7/8"
F6	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	12	6'-5"	12"	F507	13	6'-5"	12"	F406	28	9'-4 1/2"	12"
F8	F601	12	6'-10"	12"	F507	13	6'-5"	12"	—			
F9	F403	12	4'-1"	12"	F403	13	4'-1"	12"	F407	14	3'-7"	12"
	W401	13	8'-0"	12"	W401	13	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	17'-3 1/2"	12"	W406	3	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	17'-4 1/2"	12"	W407	2	3'-2"	A.S.	W407	2	12'-4"	A.S.
	F401	2	2'-9"	12"	—				—			
	F501	2	3'-5"	12"	—				—			
	3/4" Tie Rods	4	5'-8" / 5'-10"	A.S.	3/4" Tie Rods	4	5'-8"	A.S.	—			
	P403	12	5'-5 1/2"	12"	P403	13	5'-5 1/2"	12"	P403	14	5'-5 1/2"	12"
	P404	7	11'-8"	A.S.	P404	7	11'-8"	A.S.	P404	7	12'-2"	A.S.

A.S. = As Shown * For Details of Guard Rail Attachment see Dwg No. 23584. Reinf. not Reflected in Sch.

NORTH ABUTMENT WINGWALL REINFORCING SCHEDULE
NORTHWEST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO	LENGTH	SP
W1	W601	16	20'-10"	12"	W503	15	14'-8 1/2"	12"				
W2	W502	15	20'-10"	12"	W503	15	14'-3 1/2"	12"				
W3	W403	62	15'-11"	12"	W404	30	16'-8"	12"	W405	18	14'-2"	12"
F1	F502	21	2'-7"	12"	F502	16	2'-2"	12"	F508	14	2'-8"	12"
F2	F503	5	3'-7"	4.0 1/2"	F503	5	3'-7"	4.0 1/2"	F509	14	4'-1"	4.0 1/2"
F3	F402	5	20'-0"	A.S.	F404	5	14'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	13'-9 1/2"	A.S.	F404	9	14'-8"	A.S.	F405	9	12'-8"	A.S.
F5	F505	22	4'-8"	12 7/8"	F505	22	4'-8"	12 7/8"	F505	19	4'-8"	12 7/8"
F6	F506	8	6'-9 1/2"	24"	F506	8	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	15	6'-8"	12"	F507	15	7'-0 1/2"	12"	F406	28	11'-1"	12"
F8	F601	15	7'-1"	12"	F507	15	7'-0 1/2"	12"	—			
F9	F403	15	4'-1"	12"	F403	15	4'-1"	12"	F407	14	3'-7"	12"
	W401	15	8'-0"	12"	W401	15	8'-0"	12"	W401	14	8'-0"	12"
	W402	2	19'-9"	12"	W406	3	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	19'-9"	12"	W407	2	4'-3"	A.S.	W407	2	12'-4"	A.S.
	F401	2	2'-9"	12"	—				—			
	F501	2	3'-5"	12"	—				—			
	3/4" Tie Rods	4	5'-8" / 5'-10"	A.S.	3/4" Tie Rods	4	5'-8"	A.S.	—			
	P403	16	5'-5 1/2"	12"	P403	16	5'-5 1/2"	12"	P403	16	5'-5 1/2"	12"
	P404	7	13'-6"	A.S.	P404	7	13'-6"	A.S.	P404	7	13'-6"	A.S.

BENDING DIAGRAM

A.S. = As Shown

SOUTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP
W1	W601	13	18'-6 1/2"	12"	W503	12	12'-3 1/2"	12"	—			
W2	W502	13	18'-6 1/2"	12"	W503	12	12'-3 1/2"	12"	—			
W3	W403	28	14'-4"	12"	W404	28	13'-8"	12"	W405	14	14'-2"	12"
F1	F502	20	2'-2"	12"	F502	13	2'-2"	12"	F508	14	2'-8"	12"
F2	F503	4	3'-7"	4.0 1/2"	F503	5	3'-7"	4.0 1/2"	F509	14	4'-1"	4.0 1/2"
F3	F402	5	18'-5"	A.S.	F405	5	11'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	12'-3"	A.S.	F404	9	11'-8"	A.S.	F405	7	12'-8"	A.S.
F5	F505	19	4'-8"	12 7/8"	F505	18	4'-8"	12 7/8"	F505	19	4'-8"	12 7/8"
F6	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	13	6'-5"	12"	F507	13	6'-5"	12"	F406	28	9'-6"	12"
F8	F601	13	6'-10"	12"	F507	13	6'-5"	12"	—			
F9	F403	13	4'-1"	12"	F403	13	4'-1"	12"	F407	14	3'-7"	12"
	W401	14	8'-0"	12"	W401	13	8'-0"	12"	W401	13	5'-0"	12"
	W402	2	17'-9 1/2"	12"	W406	9	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	17'-9 1/2"	12"	W407	2	8'-9"	A.S.	W407	2	12'-4"	A.S.
	F401	2	2'-9"	12"	—				—			
	F501	2	3'-5"	12"	—				—			
	3/4" Tie Rods	4	5'-8" / 5'-10"	A.S.	3/4" Tie Rods	4	5'-8"	A.S.	—			
	P403	14	5'-5 1/2"	12"	P403	13	5'-5 1/2"	12"	P403	14	5'-5 1/2"	12"
	P404	7	11'-11 1/2"	A.S.	P404	7	11'-11 1/2"	A.S.	P404	7	11'-11 1/2"	A.S.

NORTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO	LENGTH	SP
W1	W601	14	21'-0"	12"	W503	15	15'-0"	12"	—			
W2	W502	14	21'-0"	12"	W503	15	15'-0"	12"	—			
W3	W403	44	16'-4"	12"	W404	32	16'-8"	12"	W405	18	14'-2"	12"
F1	F502	20	2'-2"	12"	F502	16	2'-2"	12"	F508	14	2'-8"	12"
F2	F503	5	3'-7"	4.0 1/2"	F503	5	3'-7"	4.0 1/2"	F509	14	4'-1"	4.0 1/2"
F3	F402	5	19'-5"	A.S.	F404	5	14'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	13'-2"	A.S.	F404	9	14'-8"	A.S.	F405	9	12'-8"	A.S.
F5	F505	21	4'-8"	12 7/8"	F505	22	3'-8"	12 7/8"	F505	19	4'-8"	12 7/8"
F6	F506	7	6'-9 1/2"	24"	F506	8	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	14	6'-5"	12"	F507	15	6'-5"	12"	F406	28	11'-1 1/2"	12"
F8	F601	14	6'-10"	12"	F507	15	6'-5"	12"	—			
F9	F403	14	4'-1"	12"	F403	15	4'-1"	12"	F407	14	3'-7"	12"
	W401	15	8'-0"	12"	W401	15	6'-0"	12"	W401	15	8'-0"	12"
	W402	2	19'-3"	12"	W406	9	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	18'-10"	12"	W407	2	9'-5"	A.S.	W407	2	12'-4"	A.S.
	F401	2	2'-9"	12"	—				—			
	F501	2	3'-5"	12"	—				—			
	3/4" Tie Rods	4	5'-8" / 5'-10"	A.S.	3/4" Tie Rods	4	5'-8"	A.S.	—			
	P403	15	5'-5 1/2"	12"	P403	15	5'-5 1/2"	12"	P403	15	5'-5 1/2"	12"
	P404	7	13'-3"	A.S.	P404	7	13'-3"	A.S.	P404	7	13'-3"	A.S.

A.S. = As Shown * For Details of Guard Rail Attachment see Dwg No. 23584. Reinf. Not Reflected in this Schedule.

SHEET 1 OF 1.

DETAILS OF WINGWALLS
I-30 OVER E. 9th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: C.S.B. DATE: 2-80
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: M.W.A. DATE: 1-80
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 23563

FOR INFORMATION ONLY

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.		061783	80	123
				(1) SITE NO. 6 - FOR INFORMATION ONLY				

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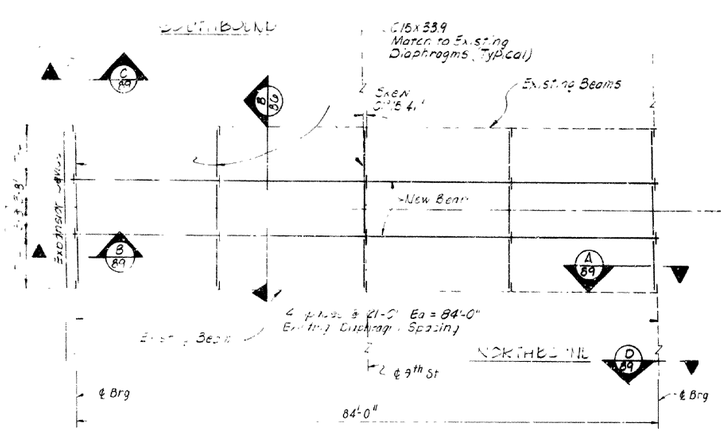
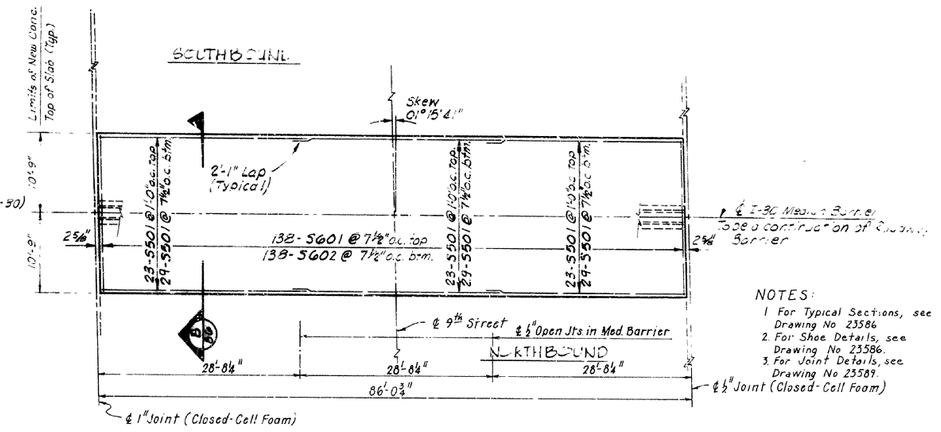
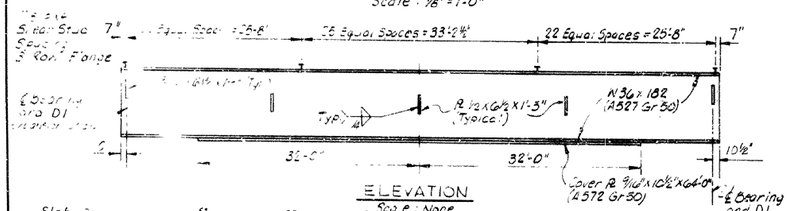
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-16-82				6	ARK.	IR-30-2(122)140	85	131
				JOB NO.		60023	88	136
				(1) 2768DW STR. PLANS				23586



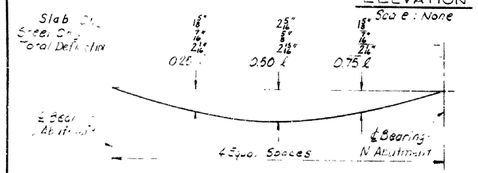


NOTES:
1. For Typical Sections, see Drawing No. 23586.
2. For Shoe Details, see Drawing No. 23586.
3. For Joint Details, see Drawing No. 25589.

FRAMING PLAN
Scale: ⅛"=1'-0"



ELEVATION
Scale: None



DEAD LOAD DEFLECTION DIAPHRAGM
Scale: None

	MARK	NO.	LENGTH	PIN DIA.
SLAB	S401	174	3'-10"	2"
	S501	156	29'-11"	Str.
	S601	138	21'-4"	Str.
	S602	138	20'-10"	Str.
	S402	24	26'-4"	Str.

REINFORCEMENT SCHEDULE

SLAB PLAN (WIDENING)
Scale: ⅛"=1'-0"

NOTE: For S401 Bending Diagram see Drawing No. 23586

Revised: For Widening & Median Only. 2-16-82. M.E.W. CK. GVA

SHEET 1 OF 1
DETAILS OF SPAN
I-30 OVER E. 9th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 11-79
CHECKED BY: T.B.H. DATE: 5-80
DESIGNED BY: R.C.L. DATE: 11-79
SCALE AS NOTED

BRIDGE ENGINEER

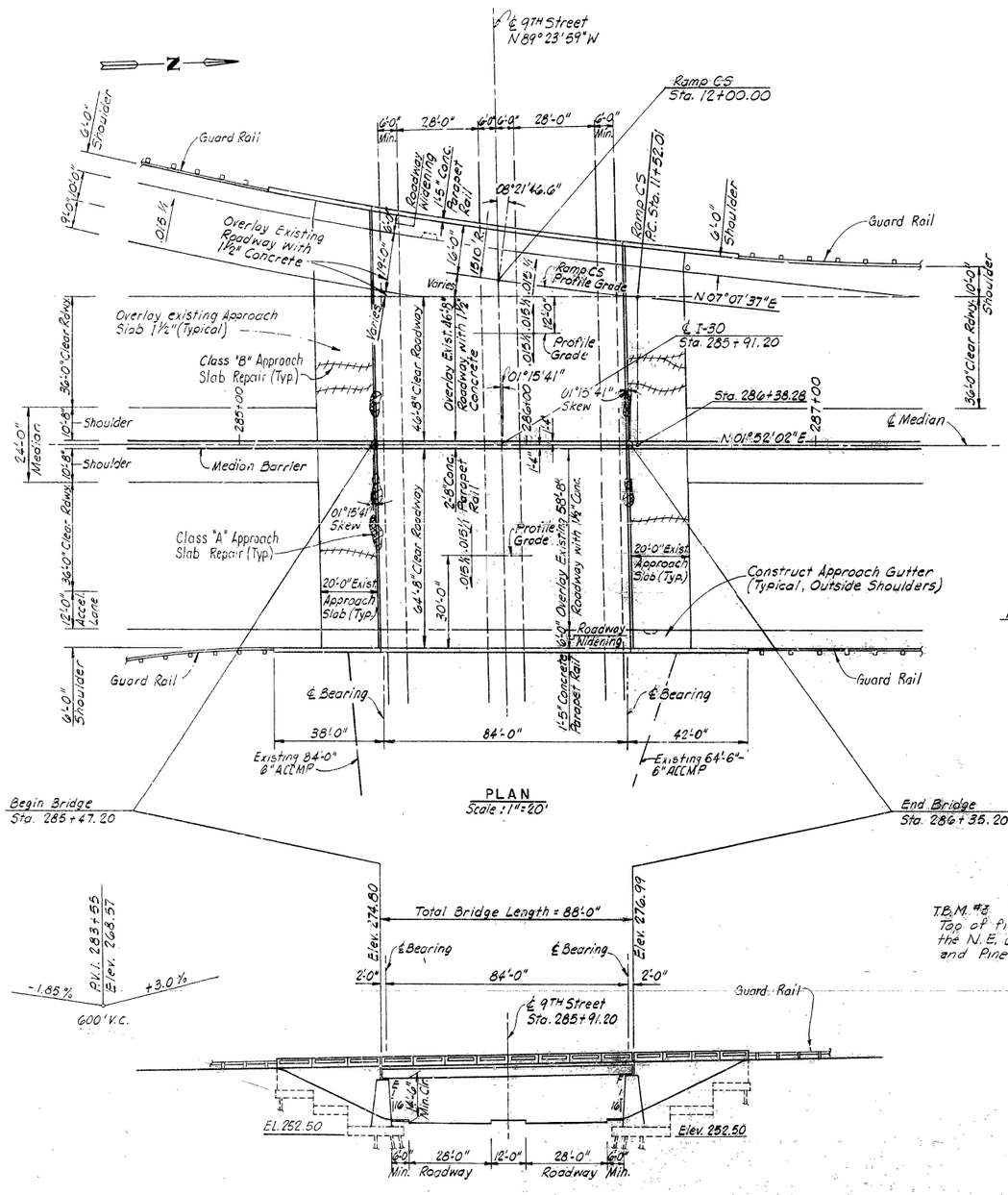
BRIDGE NO. 2768 DW DRAWING NO. 23564

FOR INFORMATION ONLY

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.		061783	81	123
				① SITE NO. 6 - FOR INFORMATION ONLY				

319

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(174)141		
				JOB NO.		60255	66	127
				① 2768DW - LAYOUT - 25800				



Legend:

⊘ - Class "A" Bridge Floor Repair - See Drwg. No. 25828 .

T.B.M. #3 Elev. 260.19
Top of fire hydrant cap at the N.E. corner of the 7th and Pine intersection.

NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations with 1½" Concrete Overlay.
3. For Guard Rail Connection Details see Drawing No. 25829 .
4. For Details of Bridge Floor Repairs see Drawing No. 25828 .
5. For Details of Approach Gutters see Drawing No. 25832 .
6. For Abutment Modification Details see Drwg. Nos. 25801-25804.
7. For Span Modification Details see Drwg. No. 25805.

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 with current Interim Specifications.

Design Live Loading: H520 and Special Interstate Loading of two 24,000 Lb. axles spaced at 4'-0" on centers.

Unit Stresses: New Construction

Class S Concrete	f'c = 3,500 p.s.i.
Class S(AE) Concrete	f'c = 3,500 p.s.i.
Reinforcing Steel (Grade 60)	Fy = 60,000 p.s.i.
Structural Steel A-36	Fy = 36,000 p.s.i.
Structural Steel A 572 (Gr. 50)	Fy = 50,000 p.s.i.

Method of Design: Load Factor

LAYOUT OF
I-30 OVER E. 9th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE I-30 SEC. 23

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 9-79
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: T.B.H. DATE: 9-79
SCALE: As Noted

Wasal Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 25800

FOR INFORMATION ONLY

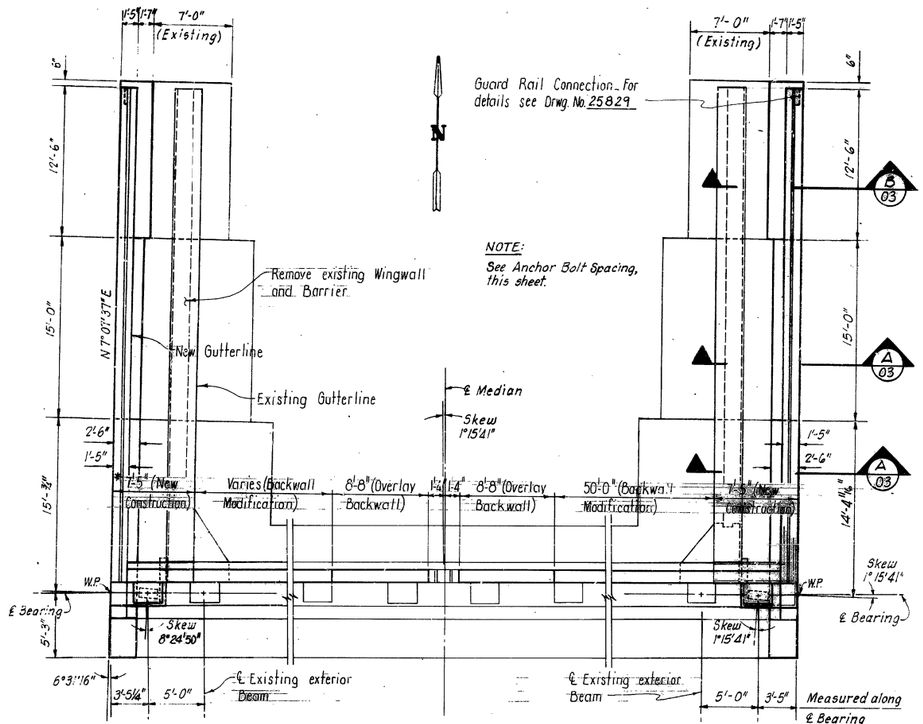
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	82	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

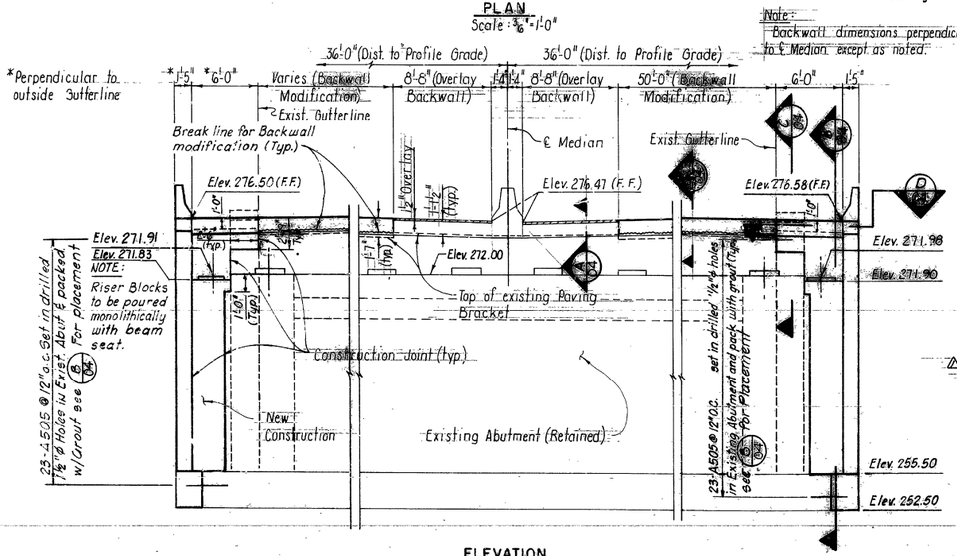
320

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6-23-83	6-24-83			6	ARK.	IR-30-2(124)14		
				JOB NO.		60255	67	127

(1) 2768 DW _ N. ABUT. _ 25801



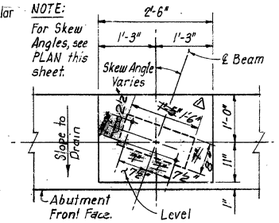
PLAN
Scale: 3/16" = 1'-0"



ELEVATION
Scale: 3/16" = 1'-0"

Note:
Backwall dimensions perpendicular to ℄ Median except as noted.

NOTE:
For Skew Angles, see PLAN this sheet.



ANCHOR BOLT SPACING
TYPE D! FIXED SHOE
Scale: None

△6-23-83 Revised Anchor Bolt Location to accept welded shoes C.E.S.

NOTES:
1. For Reinforcing Schedule and Section cuts, see Drawing No. 25804.
2. For Details of Wingwalls, see Drawing No. 25803.
3. For Details of Shoes see Drawing No. 25828.
4. For Backwall Modification Details see Drawing No. 25804. (Section B-B).
5. Heavy Lines represent New Construction.
6. Shoes & Anchor Bolts detailed on Drwg. No. 25828.
7. "F.F." Indicates For Face of Wall.

DETAILS OF NORTH ABUTMENT
I-30 OVER E. 9th STREET
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-6-83
DESIGNED BY: DATE:
SCALE: As Noted

Wesal Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 25801

FOR INFORMATION ONLY

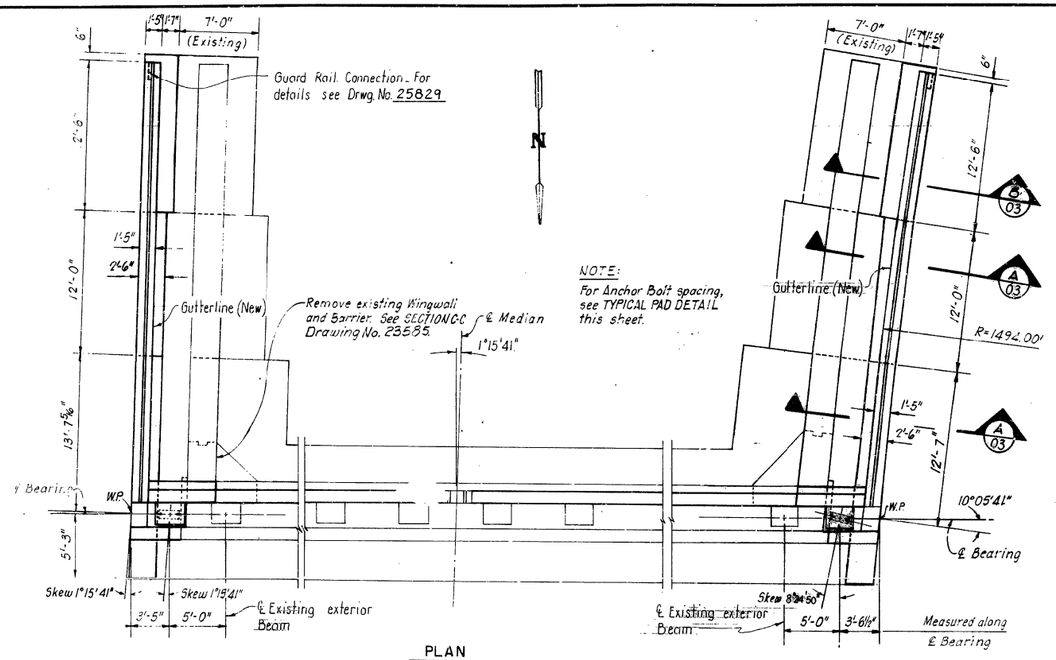
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	83	123

(I) SITE NO. 6 - FOR INFORMATION ONLY

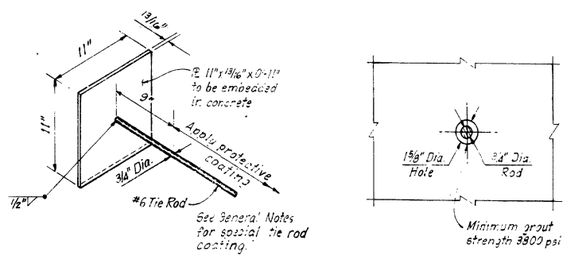
XI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IER-30-2(17)164		
				JOB NO.		60255	68	127

(I) 2768DW - S. ABUT. - 25802



PLAN
Scale: 3/16"=1'-0"



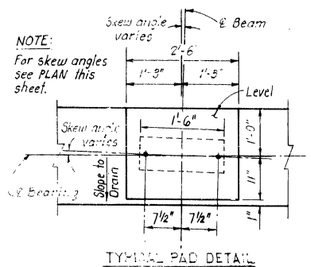
TIE ANCHOR IN NEW WALL
Scale: 1½"=1'-0"

TIE AT EXISTING WALL
Scale: 3"=1'-0"

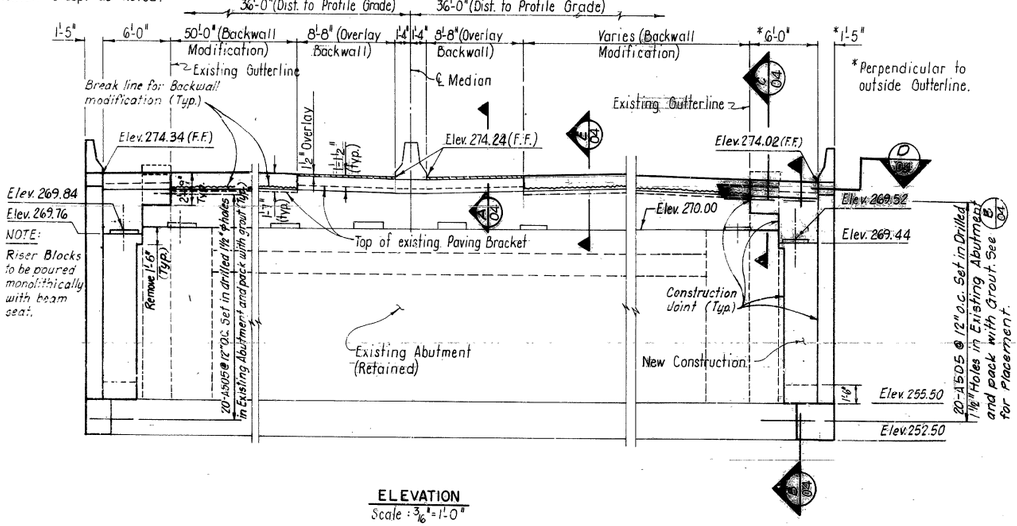
Note: 11"x 13/16" x 0'-11 ½" for Tie Rods to be considered subsidiary to the item "Structural Steel in Beam Spans, A36).

Note: See Dwg. No. 25803 for Placement Details

Note:
Backwall dimensions are perpendicular to ℄ Median except as noted.



TYPICAL PAD DETAIL
Scale: 3/4"=1'-0"



ELEVATION
Scale: 3/16"=1'-0"

NOTES:

1. For Reinforcing Schedule and Sections see Drawing No. 25804.
2. For Details of Wingwalls, see Drawing No. 25803.
3. For Typical Joint Details, see Drawing No. 25827.
4. Heavy Lines represent New Construction.
5. "F.F." Indicates For Face.

DETAILS OF SOUTH ABUTMENT
I-30 OVER E. 9th STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-6-83
DESIGNED BY: DATE:
SCALE: As Noted

Ferrol Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 25802

FOR INFORMATION ONLY

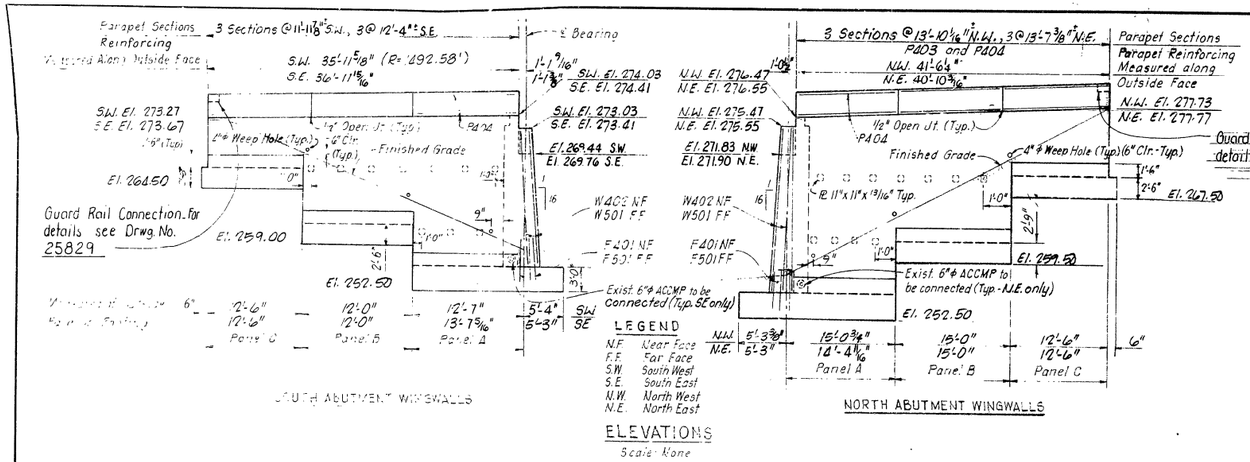
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	84	123

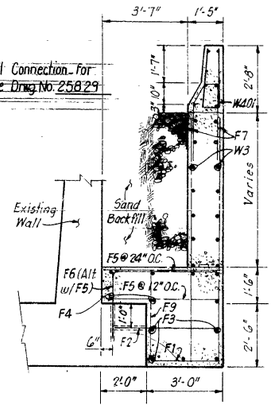
(1) SITE NO. 6 - FOR INFORMATION ONLY

322

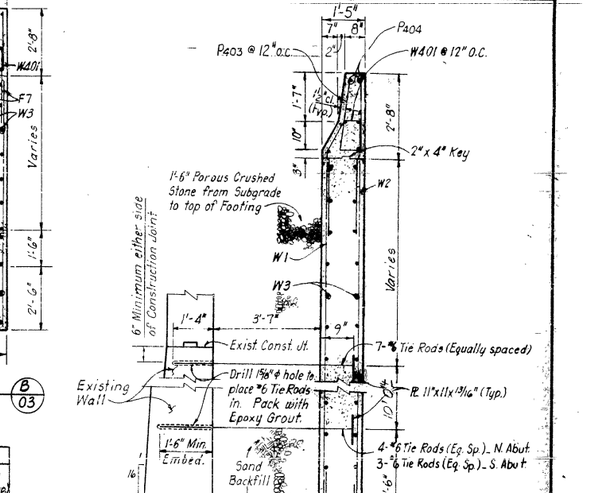
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	[illegible]		
				JOB NO.		60255	69	127

(1) 2768DW - WINGWALLS - 25803



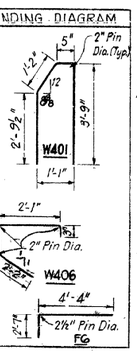


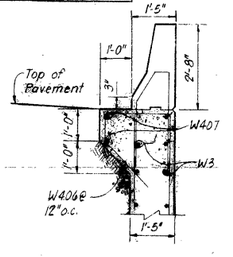
SECTION B-B (B/03)
Scale: 3/8"=1'-0"



A/03 SECTION A-A
Scale: 1/2"=1'-0"

BENDING DIAGRAM





SECTION AT WINGWALL SHOWING GUTTER SECTION BEYOND APPROACH SLAB (C/03)
Scale: 1"=1'-0"

SOUTH ABUTMENT WINGWALL REINFORCING SCHEDULE

SOUTHWEST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	12	16'-7"	12"	W503	12	10'-4"	12"	—			
W2	W502	12	16'-7"	12"	W503	12	10'-4"	12"	—			
W3	W403	40	14'-9"	12"	W404	28	13'-8"	12"	W405	14	14'-2"	12"
F1	F502	19	2'-2"	12"	F502	13	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	5	3'-7"	4'-0 1/2"	F503	4	3'-7"	4'-0 1/2"	F509	4	4'-1"	4'-0 1/2"
F3	F402	5	17'-5"	A.S.	F404	5	11'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	11'-2"	A.S.	F404	9	11'-8"	A.S.	F406	7	12'-2"	A.S.
F5	F505	17	4'-8"	12"/24"	F505	20	4'-8"	12"/24"	F505	20	4'-8"	12"/24"
F6	F506	5	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	12	6'-5"	12"	F510	12	5'-11"	12"	F511	26	8'-7"	12"
F8	F601	12	6'-10"	12"	F510	12	5'-11"	12"	—			
F9	F403	11	4'-1"	12"	F407	13	3'-7"	12"	F407	13	3'-7"	12"
	W401	13	8'-0"	12"	W401	13	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	17'-4 1/2"	12"	W406	4	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	17'-4 1/2"	12"	W407	2	8'-9"	A.S.	W407	2	8'-9"	A.S.
	F401	2	2'-9"	12"	-				-			
	F501	2	3'-5"	12"	-				P601 *	2	9'-10 1/2"	A.S.
	#6 Tie Rods	3/4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	P602 *	2	8'-0 1/2"	A.S.
	P403 *	13	5'-5 1/2"	12"	P403 *	13	5'-5 1/2"	12"	P403 *	13	5'-5 1/2"	12"
	P404	6	11'-8"	A.S.	P404	6	11'-8"	A.S.	P404	6	11'-8"	A.S.

A.S. = As shown

SOUTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	13	17'-0"	12"	W503	12	10'-9"	12"	-			
W2	W502	13	17'-0"	12"	W503	12	10'-9"	12"	-			
W3	W403	40	15'-9"	12"	W404	28	13'-8"	12"	W405	14	14'-2"	12"
F1	F502	20	2'-2"	12"	F502	13	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	5	3'-7"	4'-0 1/2"	F503	4	3'-7"	4'-0 1/2"	F509	4	4'-1"	4'-0 1/2"
F3	F402	5	18'-5"	A.S.	F404	5	11'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	12'-3"	A.S.	F404	9	11'-8"	A.S.	F406	7	12'-2"	A.S.
F5	F505	19	4'-8"	12"/24"	F505	20	4'-8"	12"/24"	F505	20	4'-8"	12"/24"
F6	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	13	6'-5"	12"	F510	12	5'-11"	12"	F511	26	9'-0"	12"
F8	F601	13	6'-10"	12"	F510	12	5'-11"	12"	-			
F9	F403	12	4'-1"	12"	F407	13	3'-7"	12"	F407	13	3'-7"	12"
	W401	13	8'-0"	12"	W401	13	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	17'-9 1/2"	12"	W406	4	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	17'-9 1/2"	12"	W407	2	8'-9"	A.S.	W407	2	8'-9"	A.S.
	F401	2	2'-9"	12"	-				-			
	F501	2	3'-5"	12"	-				P601 *	2	9'-10 1/2"	A.S.
	#6 Tie Rods	3/4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	P602 *	2	8'-0 1/2"	A.S.
	P403 *	13	5'-5 1/2"	12"	P403 *	13	5'-5 1/2"	12"	P403 *	13	5'-5 1/2"	12"
	P404	6	11'-11 1/2"	A.S.	P404	6	11'-11 1/2"	A.S.	P404	6	11'-11 1/2"	A.S.

A.S. = As Shown

NORTH ABUTMENT WINGWALL REINFORCING SCHEDULE

NORTHWEST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	15	19'-3"	12"	W503	15	13'-0"	12"				
W2	W502	15	19'-3"	12"	W503	15	13'-0"	12"				
W3	W403	42	15'-11"	12"	W404	30	16'-8"	12"	W405	14	14'-2"	12"
F1	F502	21	2'-2"	12"	F502	16	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	6	3'-7"	4'-0 1/2"	F503	6	3'-7"	4'-0 1/2"	F509	4	4'-1"	4'-0 1/2"
F3	F402	5	19'-10"	A.S.	F404	5	14'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	13'-9 1/2"	A.S.	F404	9	14'-8"	A.S.	F408	7	12'-2"	A.S.
F5	F505	20	4'-8"	12"/24"	F505	23	4'-8"	12"/24"	F505	20	4'-8"	12"/24"
F6	F506	6	6'-9 1/2"	24"	F506	7	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	15	6'-5"	12"	F507	15	6'-5"	12"	F510	26	9'-5"	12"
F8	F601	16	6'-10"	12"	F507	15	6'-5"	12"	-			
F9	F403	13	4'-1"	12"	F406	16	3'-10"	12"	F407	13	3'-7"	12"
	W401	14	8'-0"	12"	W401	16	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	19'-10"	12"	W406	8	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	19'-10"	12"	W407	2	10'-8"	A.S.	W407	2	10'-8"	A.S.
	F401	2	2'-9"	12"	-				-			
	F501	2	3'-5"	12"	-				P601 *	2	9'-10 1/2"	A.S.
	#6 Tie Rods	3/4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	P602 *	2	8'-0 1/2"	A.S.
	P403 *	14	5'-5 1/2"	12"	P403 *	16	5'-5 1/2"	12"	P403 *	13	5'-5 1/2"	12"
	P404	6	13'-3"	A.S.	P404	6	13'-6"	A.S.	P404	6	13'-6"	A.S.

NORTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	15	19'-4"	12"	W503	15	13'-0"	12"	-			
W2	W502	14	19'-4"	12"	W503	15	13'-0"	12"	-			
W3	W403	42	15'-4"	12"	W404	30	16'-8"	12"	W405	14	14'-2"	12"
F1	F502	20	2'-2"	12"	F502	16	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	6	3'-7"	4'-0 1/2"	F503	6	3'-7"	4'-0 1/2"	F509	4	4'-1"	4'-0 1/2"
F3	F402	5	19'-1"	A.S.	F404	5	14'-8"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	13'-2"	A.S.	F404	9	14'-8"	A.S.	F408	7	12'-2"	A.S.
F5	F505	20	4'-8"	12"/24"	F505	23	4'-8"	12"/24"	F505	20	4'-8"	12"/24"
F6	F506	6	6'-9 1/2"	24"	F506	7	6'-9 1/2"	24"	F506	6	6'-9 1/2"	24"
F7	F507	14	6'-5"	12"	F507	15	6'-5"	12"	F510	26	9'-5"	12"
F8	F601	14	6'-10"	12"	F507	15	6'-5"	12"	-			
F9	F403	13	4'-1"	12"	F406	16	3'-10"	12"	F407	13	3'-7"	12"
	W401	14	8'-0"	12"	W401	16	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	19'-10"	12"	W406	8	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	19'-10"	12"	W407	2	10'-8"	A.S.	W407	2	10'-8"	A.S.
	F401	2	2'-9"	12"	-				-			
	F501	2	3'-5"	12"	-				P601 *	2	9'-10 1/2"	A.S.
	#6 Tie Rods	3/4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	P602 *	2	8'-0 1/2"	A.S.
	P403 *	14	5'-5 1/2"	12"	P403 *	16	5'-5 1/2"	12"	P403 *	13	5'-5 1/2"	12"
	P404	6	13'-3"	A.S.	P404	6	13'-6"	A.S.	P404	6	13'-6"	A.S.

* For Bending Diagrams see Drwg. No. 25789 (P601, P602) & Drwg. No. 25829 (P403)

Notes:
1. For Details of Parapet Reinforcement see Dwg No. 25829.
2. Porous Crushed Stone and Sand Backfill Shall Not be Paid for directly but shall be considered subsidiary to the item "UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGES" (Approx. Quan. for N. Abut. Wingwall = 120.0 cu. yds.; S. Abut. Wingwall = 97.5 cu. yds.)

DETAILS OF WINGWALLS
I-30 OVER E. 9th STREET
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-6-83
DESIGNED BY: DATE:
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 25803

FOR INFORMATION ONLY

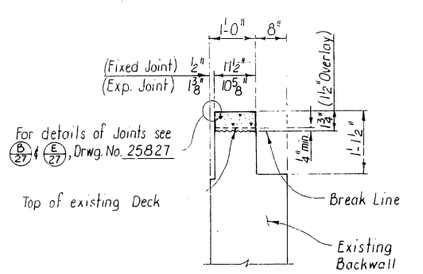
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	85	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

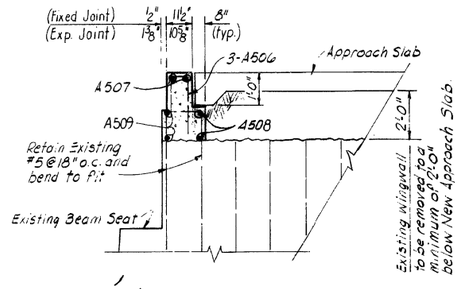
323

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(178)181		
				JOB NO.		60255	70	127

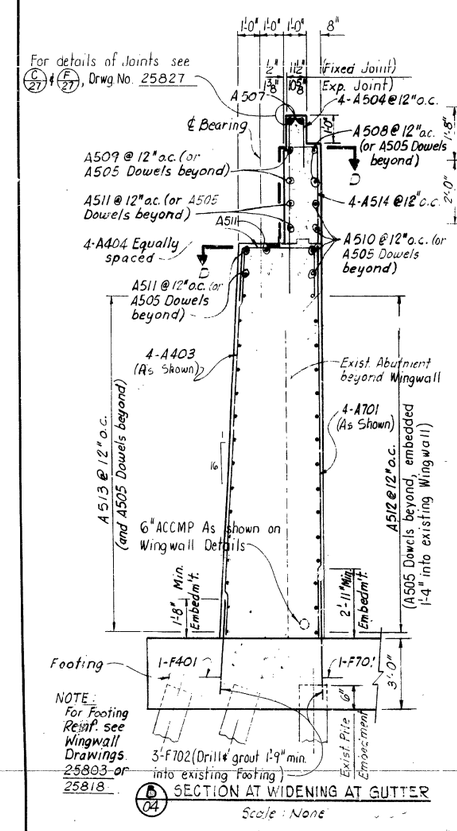
(1) 276BDW, FW _ COM'N. DTLS. _ 25804



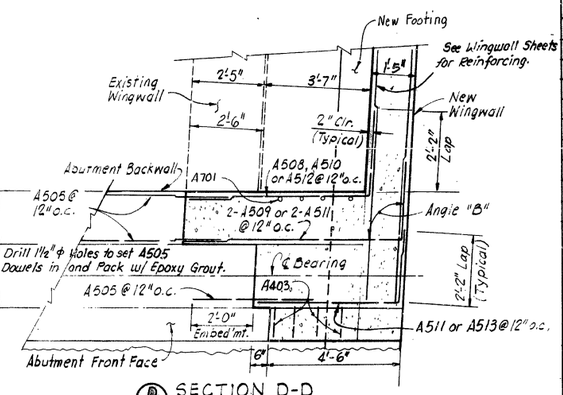
(A/04) EXISTING BACKWALL OVERLAY
Scale: 3/4" = 1'-0"



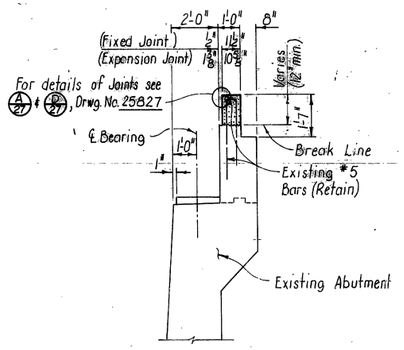
(C/04) SECTION AT EXISTING WINGWALL
Scale: 3/8" = 1'-0"



(B/04) SECTION AT WIDENING AT GUTTER
Scale: None



(D/04) SECTION D-D
Scale: 1/2" = 1'-0"

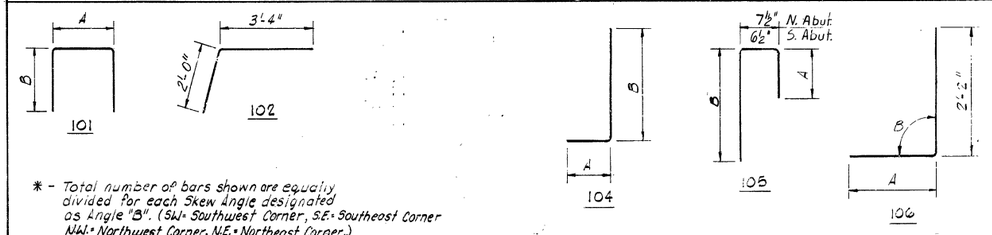


(E/04) BACKWALL MODIFICATION SECTION
Scale: 3/8" = 1'-0"

ABUTMENT REINFORCING SCHEDULE

MARK	TYPE	PIN DIA.	9TH. STREET NORTH ABUTMENT NO.	LENGTH	VARIABLE A	VARIABLE B	9TH. STREET SOUTH ABUTMENT NO.	LENGTH	VARIABLE A	VARIABLE B	13TH. STREET NORTH ABUTMENT NO.	LENGTH	VARIABLE A	VARIABLE B	13TH. STREET SOUTH ABUTMENT NO.	LENGTH	VARIABLE A	VARIABLE B
											—	—	—	—	—	—	—	—
											—	—	—	—	—	—	—	—
A403	—	Str.	8	16'-2"	—	—	8	13'-11"	—	—	8	14'-7 1/2"	—	—	8	17'-1 1/2"	—	—
A404	102	2"	8	5'-3"	—	—	8	5'-3"	—	—	8	5'-3"	—	—	8	5'-3"	—	—
A504	105	2 1/2"	8	8'-11 1/2"	2'-0"	6'-6 1/2"	8	8'-11 1/2"	2'-0"	6'-7 1/2"	8	8'-11 1/2"	2'-0"	6'-6 1/2"	8	9'-3 1/2"	2'-0"	6'-11 1/2"
A505	—	Str.	88	4'-0"			88	4'-0"	—	—	84	4'-0"	—	—	92	4'-0"	—	—
A506	105	2 1/2"	6	3'-10"	1'-0"	2'-5"	6	3'-9"	1'-0"	2'-5"	6	3'-10"	1'-0"	2'-5"	6	3'-9"	1'-0"	2'-5"
A507	—	Str.	4	7'-1"	—	—	4	7'-1"	—	—	4	7'-1"	—	—	4	7'-1"	—	—
A508	106	2 1/2"	4*	8'-3"	6'-2"		4*	8'-3"	6'-2"		4*	8'-3"	6'-2"		4*	8'-3"	6'-2"	
A509	106	2 1/2"	4*	9'-4"	7'-3"	N.N. 83° or N.E. 90°	4*	9'-4"	7'-3"	S.W. 100° or S.E. 89°	4*	9'-4"	7'-3"	N.N. 86° or N.E. 102°	4*	9'-4"	7'-3"	S.W. 94° or S.E. 79°
A510	106	2 1/2"	8*	5'-6"	3'-5"		8*	5'-6"	3'-5"		8*	5'-6"	3'-5"		8*	5'-6"	3'-5"	
A511	106	2 1/2"	10*	6'-10"	4'-9"		10*	6'-10"	4'-9"		10*	6'-10"	4'-9"		10*	6'-10"	4'-9"	
A512	106	2 1/2"	30*	5'-5"	3'-4"		26*	5'-5"	3'-4"		26*	5'-5"	3'-4"		32*	5'-5"	3'-4"	
A513	106	2 1/2"	30*	6'-5"	4'-4"		26*	6'-5"	4'-4"		26*	6'-5"	4'-4"		32*	6'-5"	4'-4"	
A514	104	2 1/2"	8	6'-9"	1'-2"	5'-8"	8	6'-9"	1'-2"	5'-8"	8	6'-9"	1'-2"	5'-8"	8	6'-9"	1'-2"	5'-8"
F702	—	Str.	12	4'-8"	—	—	12	4'-8"			12	4'-8"	—	—	12	4'-8"		
A701	—	Str.	8	16'-2"	—	—	8	14'-4"	—	—	8	13'-9"	—	—	8	16'-4"	—	—
F401	104	2"	2	3'-11 1/2"	0'-7 1/2"	3'-5"	2	3'-11 1/2"	0'-7 1/2"	3'-5"	(2)	3'-11 1/2"	0'-7 1/2"	3'-5"	2	3'-11 1/2"	0'-7 1/2"	3'-5"
F701	104	5 1/4"	2	5'-8"	1'-2"	4'-8"	2	5'-8"	1'-2"	4'-8"	(2)	5'-8"	1'-2"	4'-8"	2	5'-8"	1'-2"	4'-8"

BENDING DIAGRAMS



* - Total number of bars shown are equally divided for each Skew Angle designated as Angle "B". (SW.= Southwest Corner, SE.= Southeast Corner NW.= Northwest Corner, NE.= Northeast Corner.)
NOTE: Dimensions of bars are out to out.

NOTES:
1. See Abutment Plans and Elevations, Drawing Nos. 25801, 25802 (9th St.) and 25816, 25817 (13th St.)
2. For Wingwall Details see Drawing No. 25803. for 9th Street; 25818 for 13th Street.

DETAILS COMMON TO ABUTMENTS
I-30 OVER E. 9TH AND E. 13TH STREETS
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-6-83
DESIGNED BY: DATE:
SCALE: As Noted

Kirel Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768DW, FW DRAWING NO. 25804

FOR INFORMATION ONLY

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.		061783	86	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

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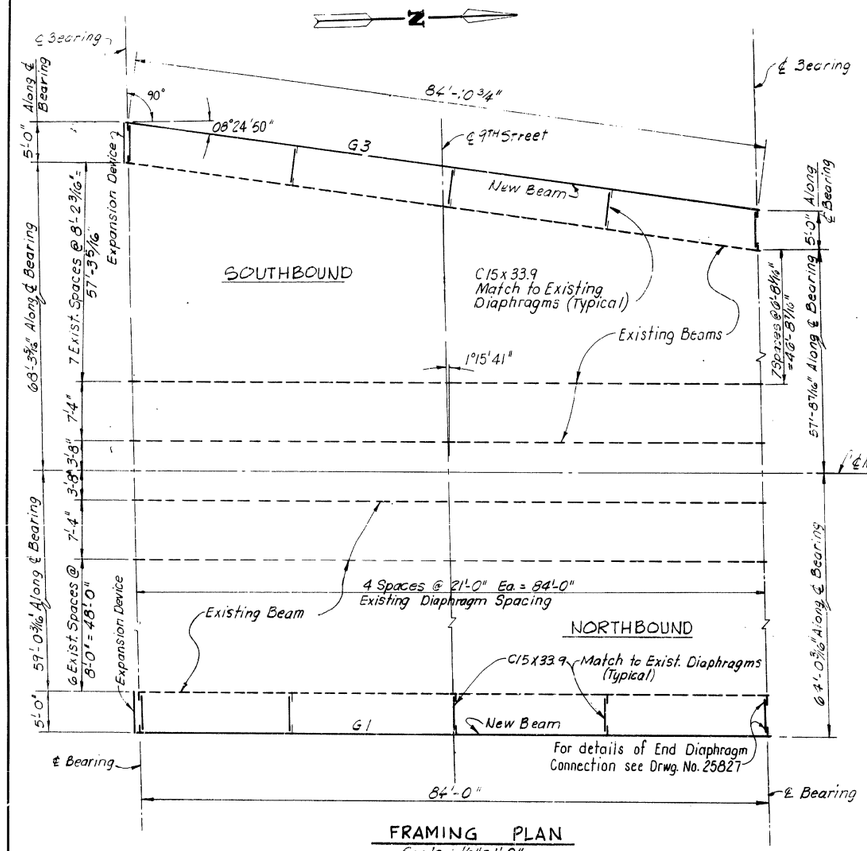
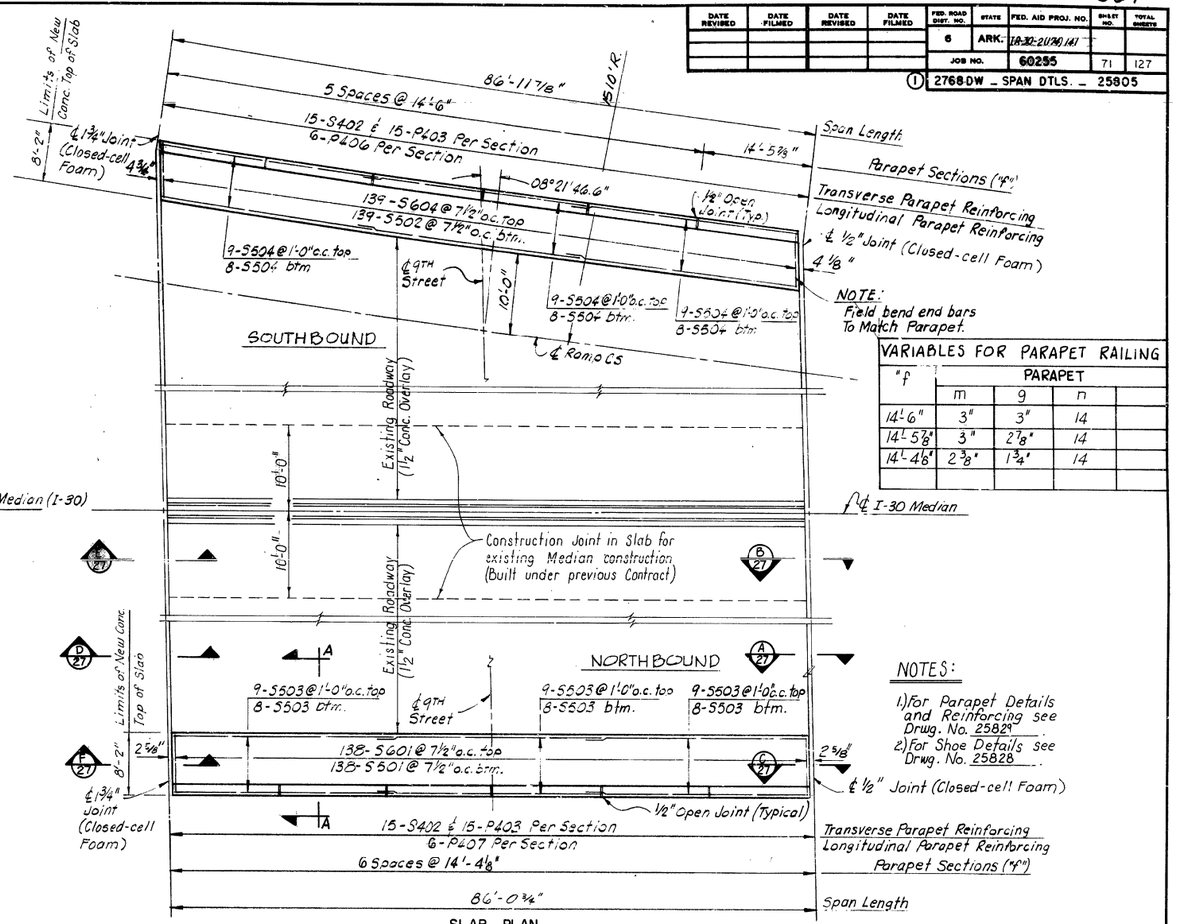
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	~~IR-30-2(176) 141~~		
				JOB NO.		60255	71	127

(1) 2768DW - SPAN DTLS. - 25805

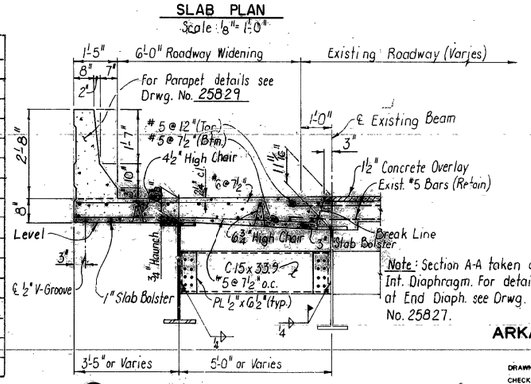


DEAD LOAD DEFLECTION TABLE						
BEAM	A	B	C	D	E	F
G1	1 1/16"	7/16"	1 1/8"	2 1/16"	5/8"	2 11/16"
G3	1 1/2"	7/16"	1 15/16"	2 1/8"	5/8"	2 3/4"



REINFORCEMENT SCHEDULE				
	MARK	NO.	LENGTH	PIN DIA.
SLAB	S501	138	7'-7"	Str.
	S502	139	7'-8"	Str.
	S503	51	29'-11"	Str.
	S504	51	30'-8"	Str.
	S601	138	7'-10"	Str.
	S604	139	7'-11"	Str.
	S402	180	6'-2 1/2"	2" *
PARAPET	P403	180	5'-5 1/2"	2" *
	P406	36	14'-2 1/2"	Str.
	P407	36	13'-11 1/2"	Str.

*For Bending Diagrams see Drwg. No. 25829



Note: Section A-A taken at Int. Diaphragm. For details at End Diaph. see Drwg. No. 25827.

LOAD DISTRIBUTION TO BEAM *	
Dead Load Non-Composite	Exterior Beam 639 PLF + Bm. Wt.
Dead Load Composite Includes 140 PLF for Future Wearing Surface	232 PLF (92 PLF Parapet DL, 140 PLF Future Wear. Surf.)
Live Load to Composite Beam	HS-20 Wheels + Impact

* Service Loads

DETAILS OF SPAN
I-30 OVER E. 9th STREET
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-6-83
DESIGNED BY: DATE:
SCALE: AS NOTED

Virgil Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 DW DRAWING NO. 25805

FOR INFORMATION ONLY

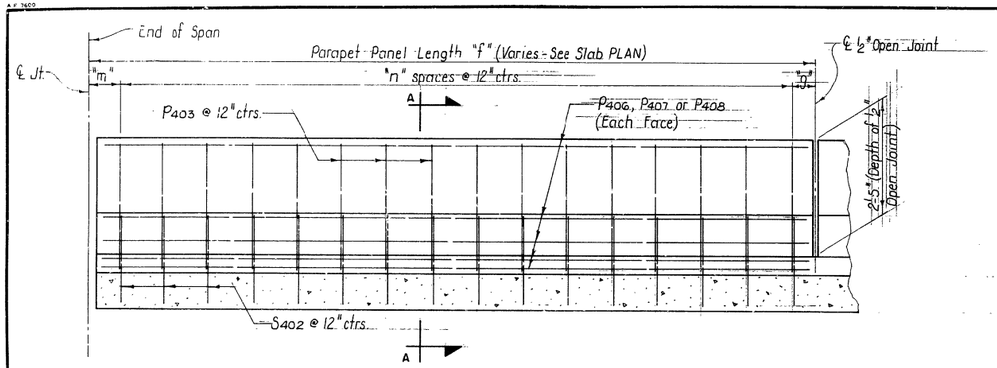
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	87	123

(1) SITE NO. 6 - FOR INFORMATION ONLY

348

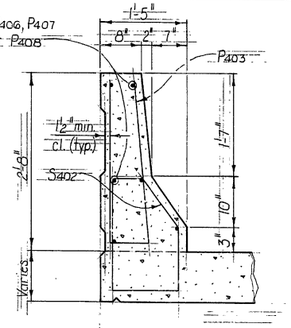
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(174)141		
				JOB NO.		60255	95	127

(1) 2768BW, DW-FW, HW-PARA. RAIL - 25829



LONGITUDINAL SECTION AT CURB FOP PARAPET RAIL

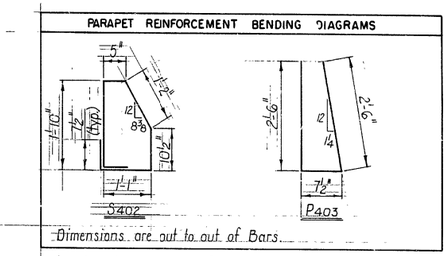
Scale: ¾" = 1'-0"



SECTION A-A

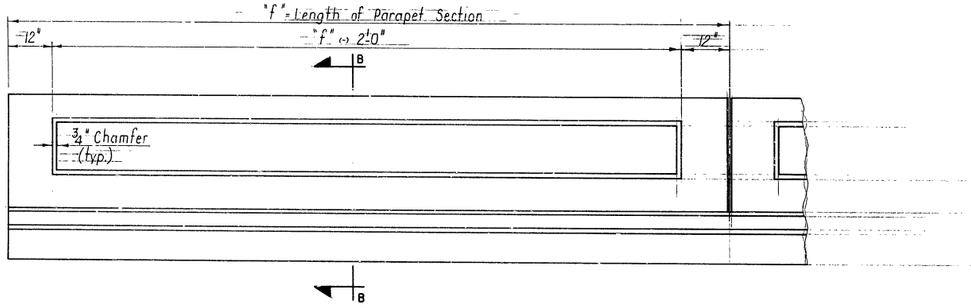
Scale: 1" = 1'-0"

PARAPET REINFORCEMENT BENDING DIAGRAMS



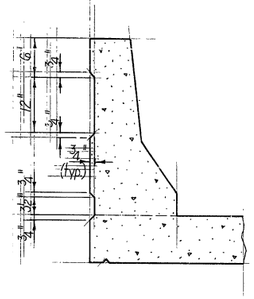
Dimensions are out to out of Bars.

Note: Bending Diagrams for P601 & P602 detailed on Drwg. No. 25789.



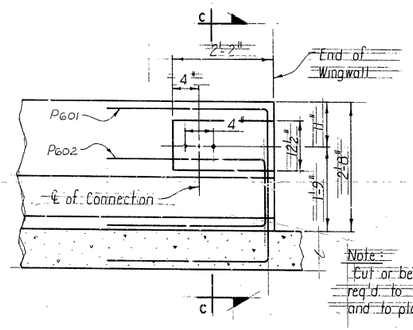
ELEVATION SHOWING ENHANCEMENT FOR PARAPET RAIL

Scale: ¾" = 1'-0"



SECTION B-B

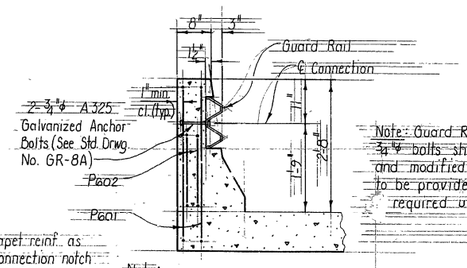
Scale: 1" = 1'-0"



Note: Cut or bend Parapet reinf. as req'd. to clear Connection notch and to place P601 & P602.

TYPICAL GUARD RAIL CONNECTION FOR PARAPET RAIL

Scale: ¾" = 1'-0"



Note: Guard Rail Connection notches and ¾"ø bolts shall be cast into all regular and modified Parapets. Washers and nuts to be provided only where Guard Rail required under this Contract.

Note: A325 Bolts, Washers and Nuts shall not be paid for directly, but shall be considered subsidiary to other Items in the Contract.

SECTION C-C

Scale: ¾" = 1'-0"

DETAILS OF
CONCRETE PARAPET RAILING
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: FEB 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: DATE: SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 2768BW, DW-FW, HW DRAWING NO. 25829

FOR INFORMATION ONLY

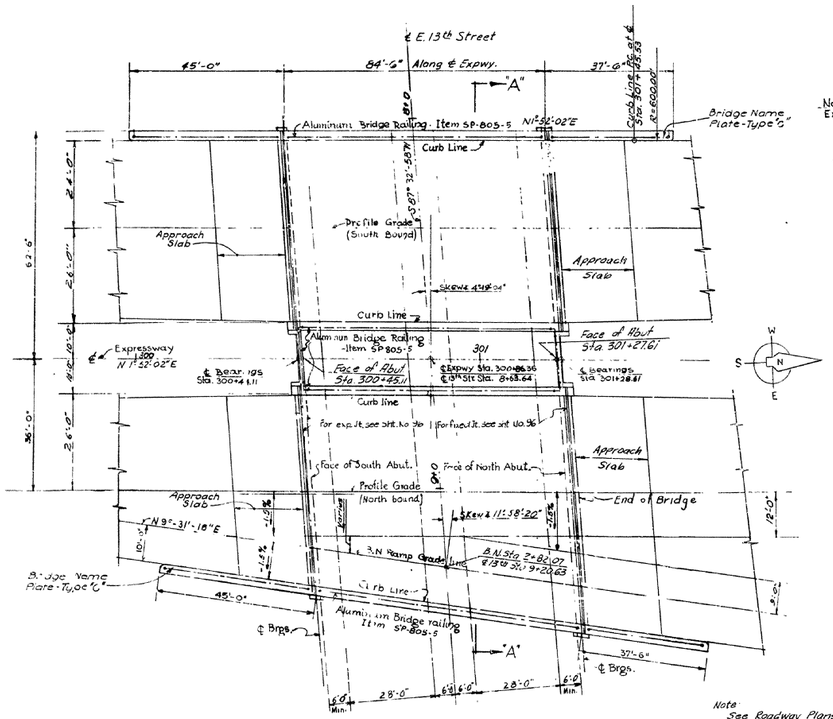
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	88	123

(1) SITE NO. 7 - FOR INFORMATION ONLY

443

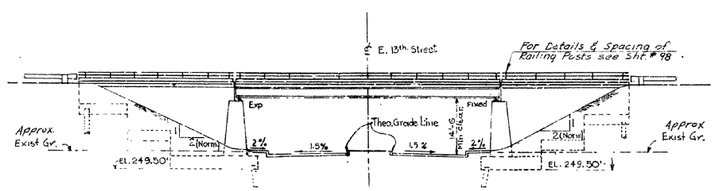
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		82	144
JOB NO. 6596					

FED AID PROJ I-30-2(20)141

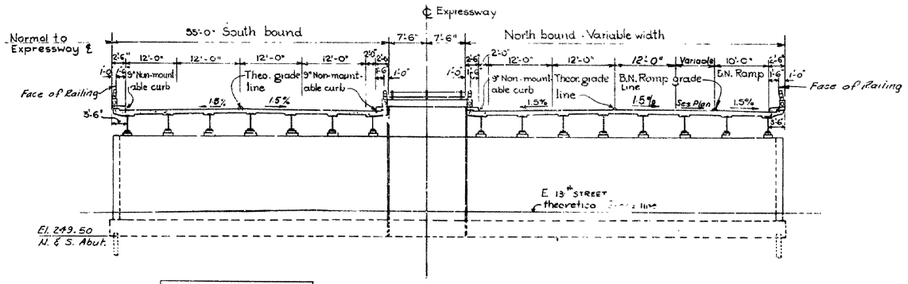


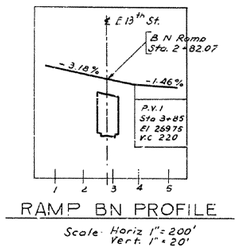
PLAN
Scale 1/16"=1'-0"

Note
See Roadway Plans For Approach Slabs



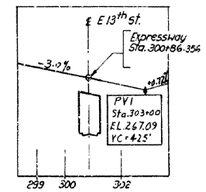
ELEVATION
Scale 1/16"=1'-0"



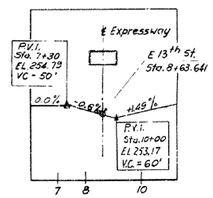


RAMP BN PROFILE
Scale: Horiz 1"=200'
Vert. 1"=20'

SECTION A-A
Scale 3/32"=1'-0"



EXPRESSWAY PROFILE
Scale: Horiz 1"=200'
Vert. 1"=20'



E 13th ST. PROFILE
Scale Horiz. 1"=200'
Vert. 1"=20'

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	SOUTH ABUT.	SPAN	NORTH ABUT.	TOTAL QUANTITIES
103	Dry Excavation for Structures	C.Y.	420		370	790
SP 125-1	Special Compaction of Earthwork	C.Y.	7500		7250	14750
SP 126-2	Embankment Material (Class EM-1)	C.Y.	7500		7250	14750
SP 127-1	Bogged Screened Gravel	C.Y.	146	-	126	270
SP & 802	Class A Concrete for Bridges	C.Y.	604	-	606	1,210
SP & 802	Class S Concrete for Bridges	C.Y.	4	286	4	294
SP & 803	Reinforcing Steel	LB	33,477	49,186	30,157	112,820
* SP 803-6	Shear Connectors	LB	-	2850	-	2,850
SP 804-4	Bearing Piles	L.F.	4,641		4,563	9,204
SP 805-5	Aluminum Bridge Railing	L.F.	103	343	88	534
SP & 807	Structural Steel in Beam Spans	LB.		375,800		375,800
SP 860-2	Dome Proofing	S.F.	3,900	-	3,480	7380
SP 911-2	6" Dia Bridge Underdrain	L.F.	187	-	186	373
929	Bridge Name Plate - Type "C"	EA.	1		1	2

* Quantities shown for Shear Connectors are based on Spiral Bar Shear Connectors. See Special Provisions.

REFERENCES:
General Notes - Sheet # 4
Joint Details - Sheet # 96
Architectural Details - Sheet # 92
Railing Details - Sheet # 98
Embankment Const. - Sheet # 100
Excavation - Sheet # 101
Approach Slab - Sheet # 103
Boring Logs - Sheet # 95
Bridge Name - Plate Sheet # 115

Revised to show new type Aluminum Bridge Railing. L.H.T. 1-5-60
Revised quantities for change to new type Aluminum Bridge Railing. L.H.T. 1-9-60.
Revised lighting work note. R.L.C. 1-18-60.

Note. For lighting work on this sheet see sheet #120.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E 13TH ST. NORTH LITTLE ROCK
STRUCTURE NO. 28
GENERAL PLAN & SECTIONS

Revised	6-15-59	DWG. NO. 121-B 6016	SCALE As shown	DATE 2-15-58	BROWN & CALDWELL CONSULTING ENGINEERS

In Charge Of J. A. Walsh, Jr.
Made By P.N.
Traced By L.P.
Checked By G.A.Y.

FOR INFORMATION ONLY

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.		061783	89	123

(1) SITE NO. 7 - FOR INFORMATION ONLY

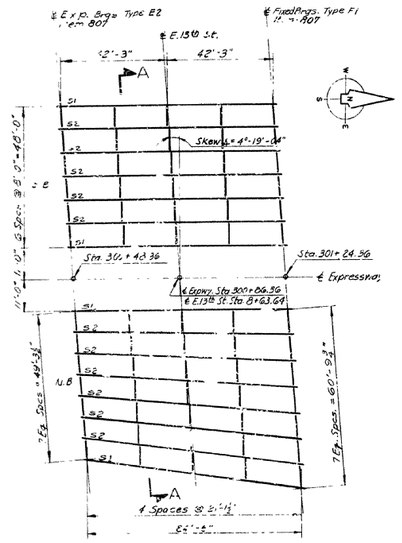
444

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-030(29)		83	144
JOB NO. 6596					

FED. AID PROJ. I-30-2(20) 12.

℄ Exp. Brgs. Type E2 on Bent 807

℄ Fixed Brgs. Type F1 on Bent 807

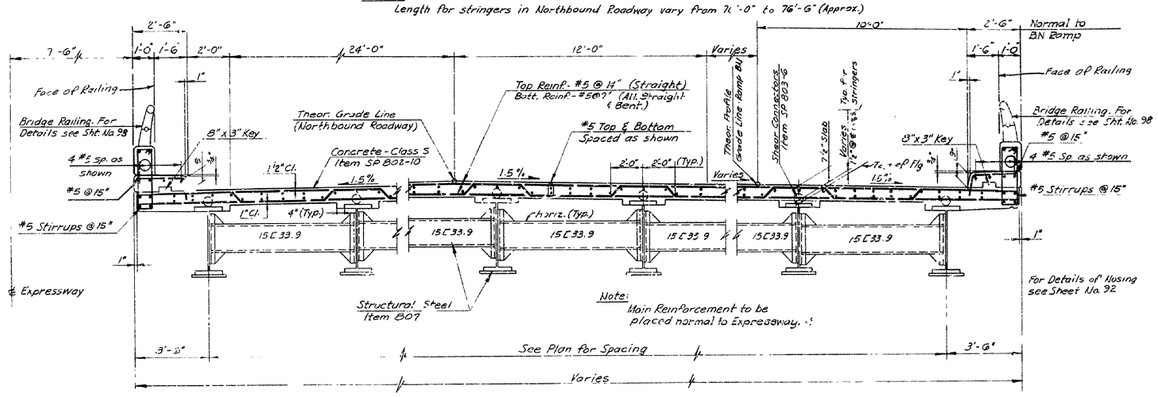


FRAMING PLAN
Scale: 1" = 20'-0"

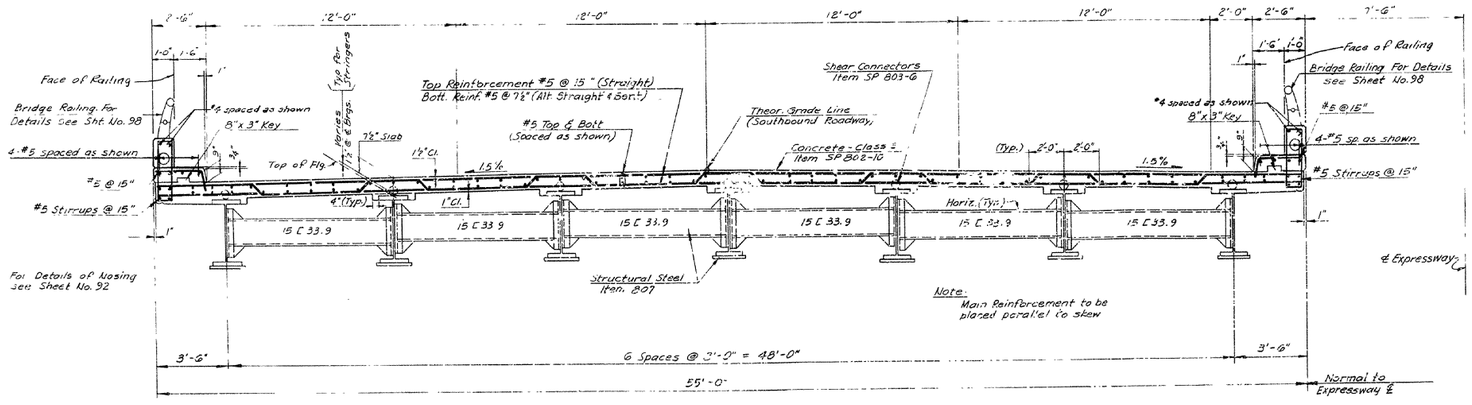
Note:
All Diaphragms 15C33.9

Member	Size	Cov. PL	P_1	P_2	P_3	P_4	Δ_1	Δ_2	Δ_3	CI	Total Camber Center
S1	36WF194	16"x1⅛	7	9	10½	13	60	155	50	—	2⅞
S2	24WF130	20"x⅞	6½	7½	9	12	55	140	-	—	2⅛

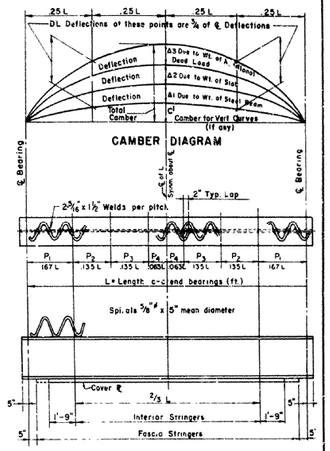
Note "A"
Length for stringers in Northbound Roadway vary from 71'-0" to 76'-6" (Approx.)



SECTION A-A
NORTHBOUND ROADWAY
Scale: ⅜" = 1'-0"



SECTION A-A
SOUTHBOUND ROADWAY
Scale: ⅜" = 1'-0"



PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS
Not to Scale

General Arrangement and Sections see Sheet No. 82
All Reinforcing Steel Item SP 803-5

For Int. Diaph. Conn. Details
For End Diaph. Conn. Details
For Bearing Details
For Shear Connectors
See Sheet No. 93

Revised to show new type Aluminum Bridge Railing. LHT 1-5-60
Revised lighting work note R.L.C. 1-18-60

Note: For lighting work on this sheet see sheet #120.

In Charge Of J. A. Walsh, Jr.
Made By C.R.
Traced By L.P.
Checked By R.G.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 13th ST.
NORTH LITTLE ROCK
STRUCTURE NO. 28
FRAMING PLAN

Revised	6-15-59

DWG. NO. 13-B 6017	SCALE As Noted	DATE 2-19-58	BROWN & B[illegible] CONSULTING [illegible]

Drwg. No. 10908

FOR INFORMATION ONLY

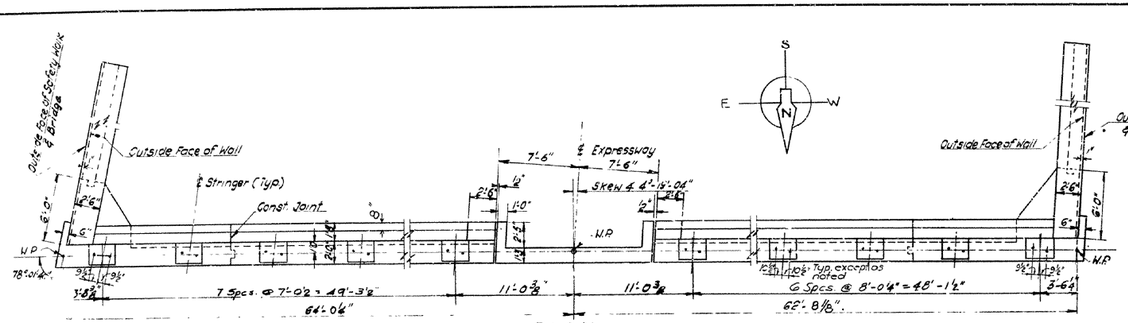
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	90	123

(1) SITE NO. 7 - FOR INFORMATION ONLY

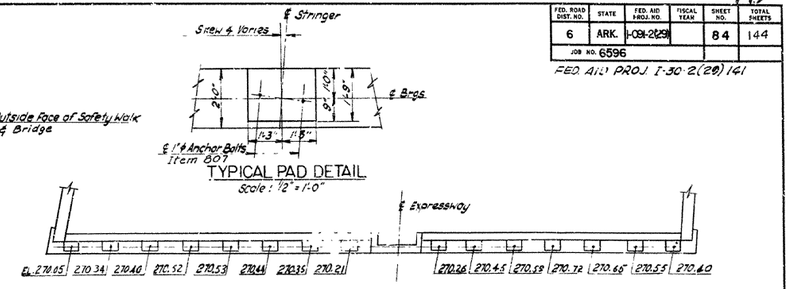
445

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-081-2(29)		84	144
JOB NO. 6596					

FED. AID PROJ. I-30-2(29) 141

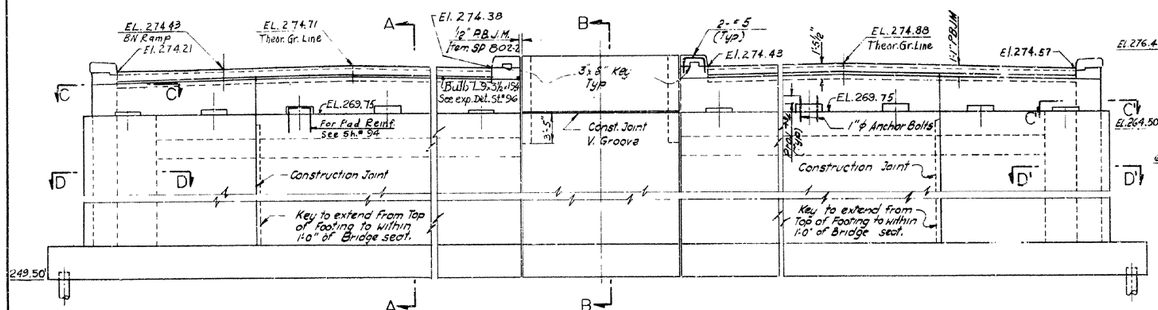


PLAN
Scale: 3/16" = 1'-0"

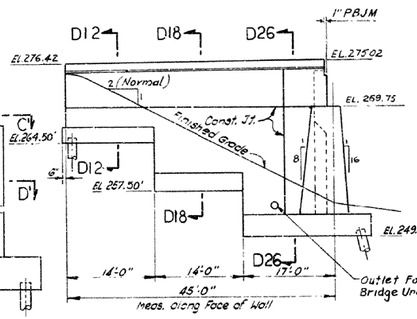


TYPICAL PAD DETAIL
Scale: 1/2" = 1'-0"

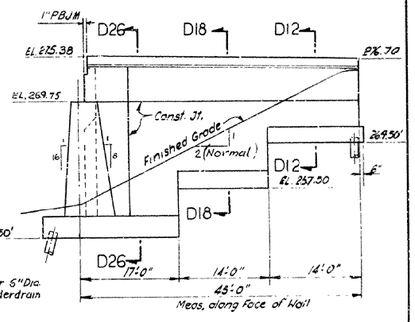
KEY PLAN
Top of Pad Elevation
No. 4 scale



ELEVATION
Scale 3/16" = 1'-0"

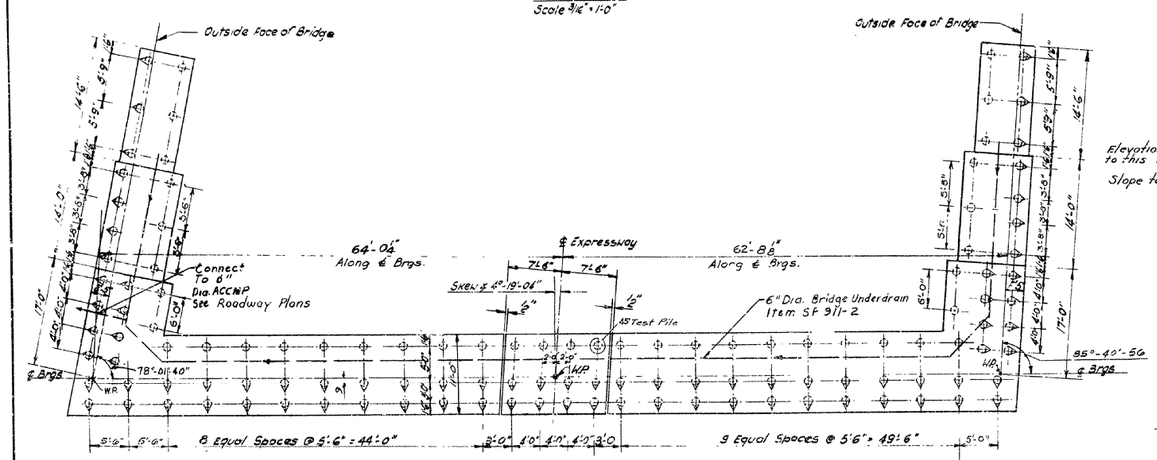


ELEVATION OF WINGWALL
Scale: 1/8" = 1'-0"
South-East as shown & noted

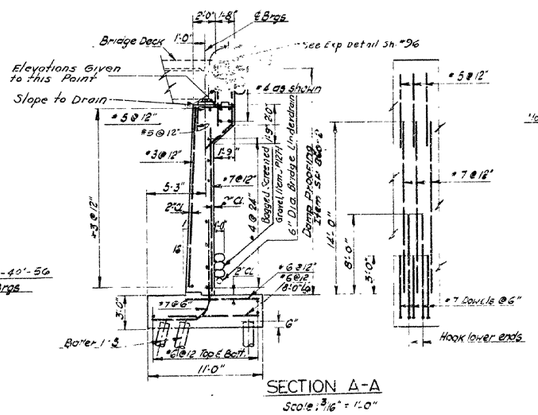


ELEVATION OF WINGWALL
Scale: 1/8" = 1'-0"
South-West as shown & noted

For Architectural Treatment of walls see sht #92



PLAN OF FOOTING
Scale: 1/8" = 1'-0"



SECTION A-A
Scale: 3/16" = 1'-0"

REFERENCES:
For Sections, Details of Wingwalls see sht. # 97
For Section "B-B" see sht. # 94
For Sections C-C, C'-C, D-D, D'-D' see Sheet # 94

Notes:
Estimated average length of Piles: Abutment 40'-0" Wingwalls 30'-0"
Max. Load per Pile 40 Tons
All Piles are Bearing Piles Item Sp. 804-1
Concrete Class A Item Sp. 802-10
All Reinforcing Steel Item Sp. 803-5
For Bearing Pile Details See Sheet # 95 & 95A

Note: For lighting work on this sheet see sheet #120

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY
EXPRESSWAY OVER E. 13TH ST.
NORTH LITTLE ROCK
STRUCTURE NO. 28
SOUTH ABUTMENT

DWG. NO. 181-B (20)	SCALE As shown	DATE 2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS

Revised 6-15-59

In Charge Of J. A. Walsh, Jr.
Made By P. S. Shkov
Traced By P. S.
Checked By G. A. Y.

Revised lighting work note. R.L.C. 1-18-60

Dwg. No. 10909

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

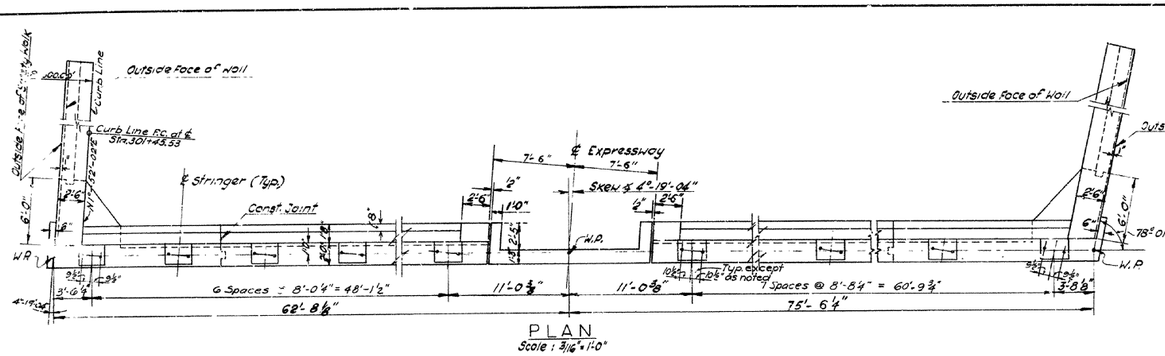
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.		91	123
JOB NO.		061783		

(1) SITE NO. 7 - FOR INFORMATION ONLY

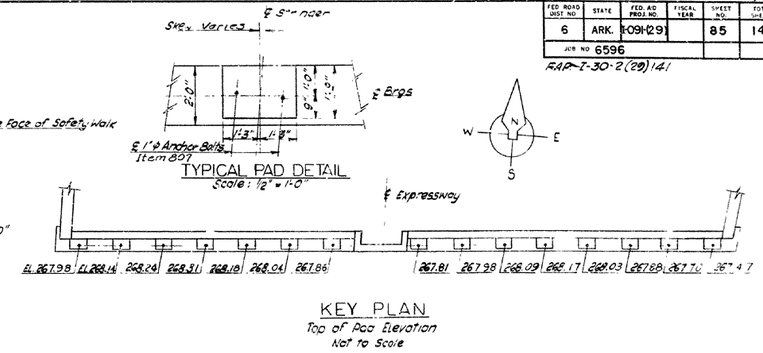
44

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	409H(29)		85	144
JOB NO 6596					

FAP-I-30-2(29)141

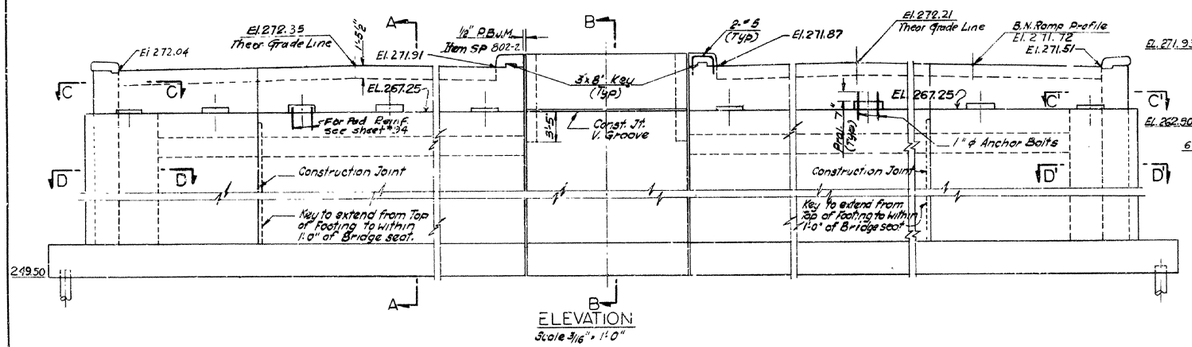


PLAN
Scale : 3/16" = 1'-0"

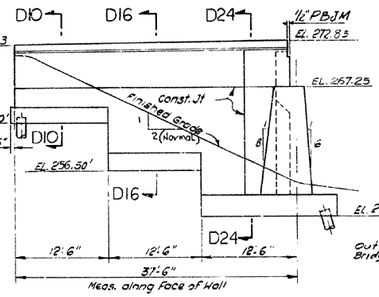


TYPICAL PAD DETAIL
Scale : ½" = 1'-0"

KEY PLAN
Top of Pad Elevation
Not to Scale

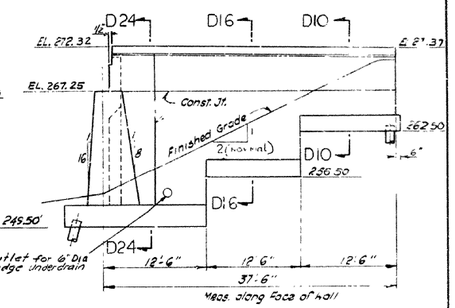


ELEVATION
Scale 3/16" = 1'-0"

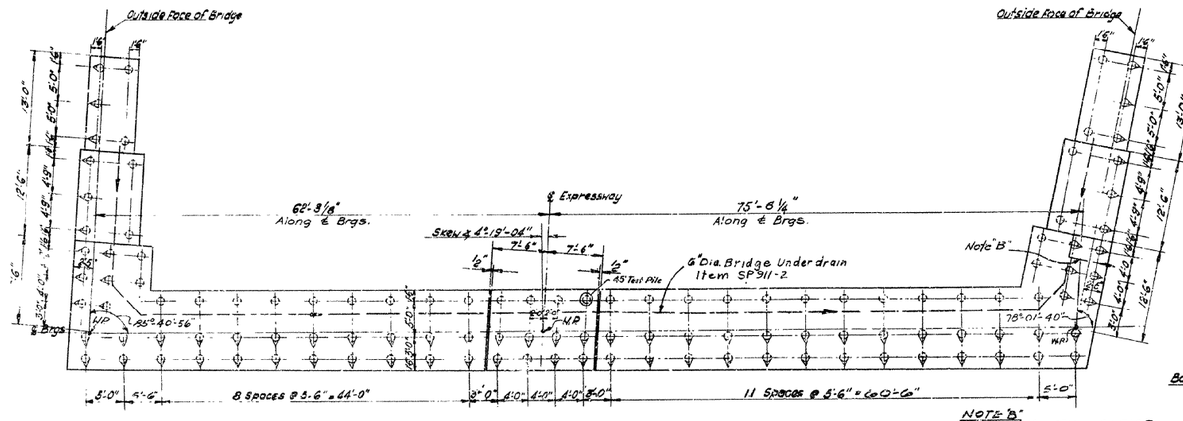


ELEVATION OF WINGWALL
Scale : 1/8" = 1'-0"
North-West as shown & noted

For Architectural Treatment of Walls see sht #92

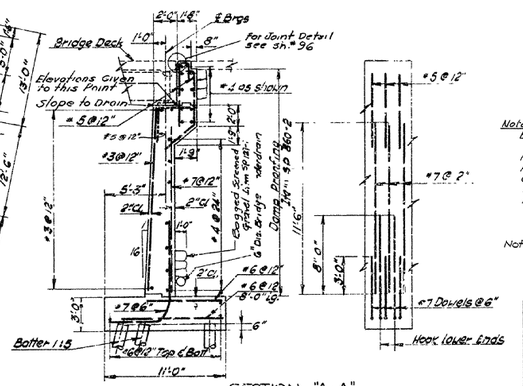


ELEVATION OF WINGWALL
Scale : 1/8" = 1'-0"
North-East as shown & noted.



PLAN OF FOOTING
Scale 1/8" = 1'-0"

NOTE "B"
Connect to 6" Dia ACCMP
See Roadway Plans



SECTION "A-A"
Scale 3/16" = 1'-0"

Revised lighting work note. P.L.C. 1-18-60.

REFERENCES :

For Sections Details of Wingwalls see Sht #97
For Section 'B-B' see Sht #94
For Sections C-C, C'-C', D-D, D'-D' see Sheet #94

Notes:
Estimated average length of Piles: Abutments 40'± Wingwalls 50'±
Max. Load per Pile 40 Tons
All Piles are Bearing Piles Item SP 804-4
Concrete Class "A" Item SP 802-10
All Reinforcing Steel - Item SP 803-2
For Bearing Pile Details See Sheet #95 & #95A

Note: For lighting work on this sheet see sheet #120.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 13TH ST.
NORTH LITTLE ROCK
STRUCTURE NO. 28
NORTH ABUTMENT

Revised	6-15-59	DWG. NO. 121-B 6019	SCALE as shown	DATE 2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS

In Charge Of J. A. Walsh, Jr.
Made By R. Stilshkov
Traced By L. F.
Checked By G. A. Y.

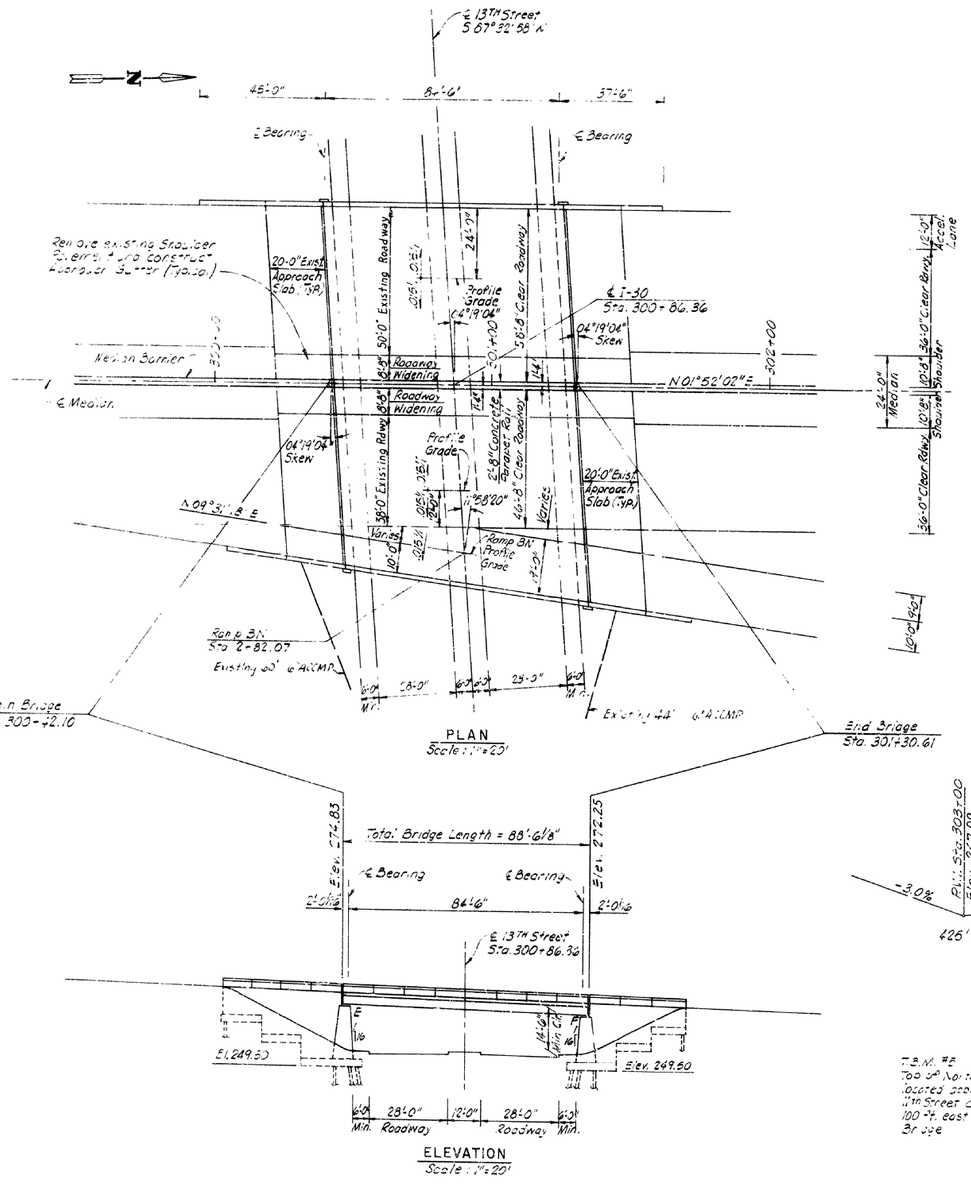
Drwg. No. 10,910

FOR INFORMATION ONLY

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.		061783	92	123
				(1) SITE NO. 7 - FOR INFORMATION ONLY				

399

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-8-82				6	ARK.	I-430-3(12)140	91	131
				JOB NO.		60023	96	136
				(1) STATEWIDE ENVIRONMENTAL				



NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations
3. For Approach Slab and Gutter Sections See Drawing No. 25271.
4. For General Notes See Drawing No. 23546

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 w/ thru 1975-1979 Interim Specifications.

Design Live Loading: HS20 and Special Interstate Loading of two 24,000 lb axles spaced 4'-0" on centers.

Unit Stresses: New Construction.

Class S Concrete	f'c = 3,500 psi
Class S (AE) Concrete	f'c = 3,500 psi
Reinforcing Steel, Grade 60	fy = 60,000 psi
Structural Steel, A-36	Fy = 36,000 psi
Structural Steel, A 572, Gr 50)	Fy = 50,000 psi

Method of Design: Load Factor

T.B.M. #5 Elev. 258.57
700 ft. North 80° or 8" fire hydrant 6.0 ft. located approximately 50 ft. South of 11th Street dead end, approximately 100 ft. east of I-30 under Locust St. Bridge

Revised: For Widening @ Median Only. 2-8-82. M.E.W. CK CVA

LAYOUT OF
I-30 OVER E. 13th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: M.E.N. DATE: 1-74
CHECKED BY: T.S.H. DATE: 2-75
DESIGNED BY: T.S.H. DATE: 1-74
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 23572

FOR INFORMATION ONLY

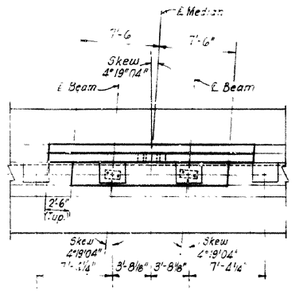
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	93	123
				(1)	SITE NO. 7 - FOR INFORMATION ONLY			

391

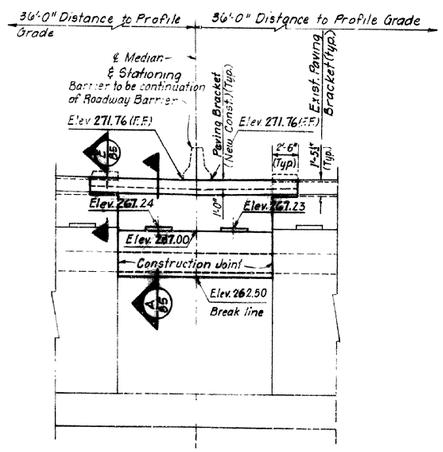
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-12-82				6	ARK.	IR-30-2(42)160	92	131
				JOB NO.		60023	97	136
				(1)	2768 DTLS N ABUTMENTS			23573

N

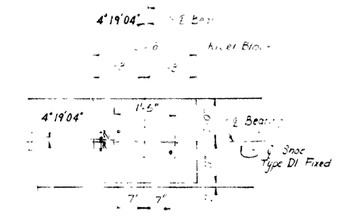
NOTE
For Anchor Bolt spacing, see TYPICAL PAD DETAIL this sheet



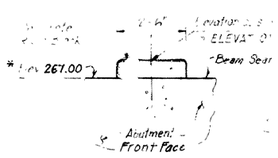
PLAN
Scale 3/16"=1'-0"



ELEVATION
Scale: 3/16"=1'-0"



TYPICAL PAD DETAIL



RISER BLOCK
Scale: None

* See Section (A 36) Drawing No. 23585

Revised: For Widening & Median Only. 2-12-82. M.E.W. CK. GVA.

1. For Reinforcing Steel and Section see Drawing No. 23584 & 23585.
2. For Joint Details see Drawing No. 23583.
3. For Shoe Details see Drawing No. 23596.
4. Heavy Lines Represent New Construction

SHEET 1 OF 1

DETAILS OF NORTH ABUTMENT
I-30 OVER E. 13th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: G.S.B. DATE: 2-80
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: P.P.H. DATE: 2-80
SCALE: AS SHOWN

BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 23573

FOR INFORMATION ONLY

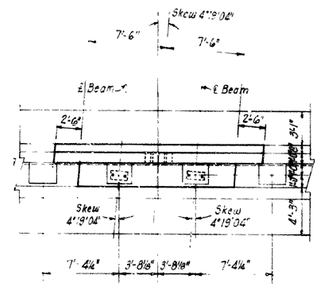
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	94	123
				(1) SITE NO. 7 - FOR INFORMATION ONLY				

392

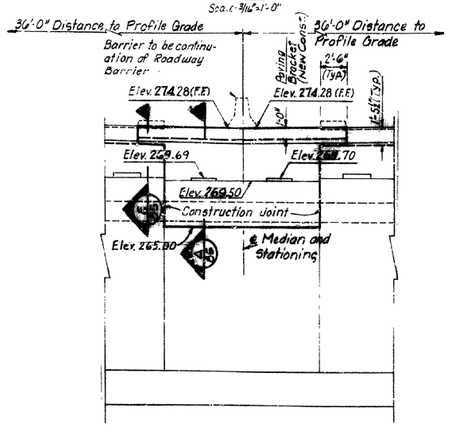
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-12-82				6	ARK.	IR-30-1(72)+9	93	131
				JOB NO.		60023	98	136
				(1) 2768 FW DTLS S ABUTMENTS				23574

N

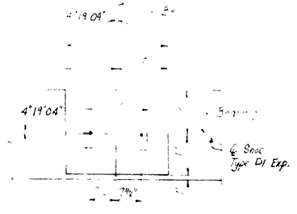
NOTE:
For Anchor Bolt spacing, see TYPICAL PAD DETAIL this sheet



PLAN
Scale: 3/16"=1'-0"



ELEVATION
Scale: 3/16"=1'-0"



TYPICAL PAD DETAIL
Scale: 3/4"=1'-0"

NOTE:
Riser Blocks to be poured monolithically with beam seat

NOTES:
1. For Reinforcing Details and Bar Lists, See Drawing No. 23584 & 23585
2. For Riser Block Details, See Dwg. No. 23571
3. Heavy Lines Represent New Construction

SHEET 1 OF 1

DETAILS OF SOUTH ABUTMENT
I-30 OVER E. 13th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: G. B. DATE: 2-80
CHECKED BY: T. B. H. DATE: 3-80
DESIGNED BY: M. W. A. DATE: 3-80
SCALE: As Noted

BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 23574

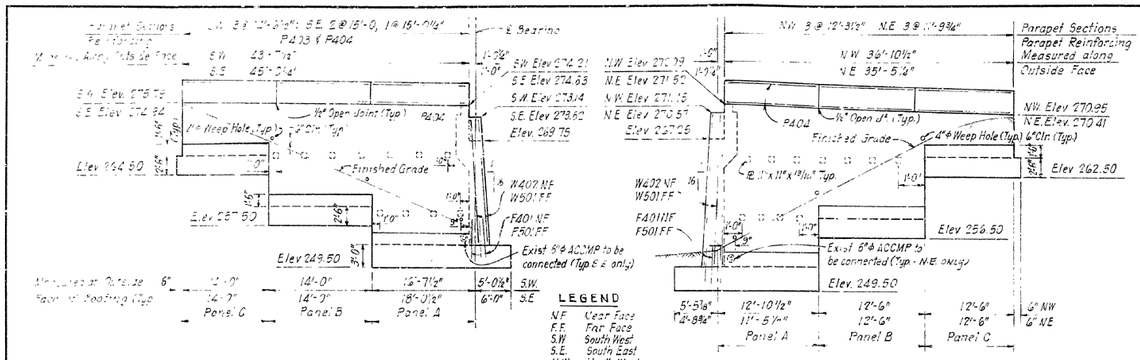
Revised: For Widening & Median Only. 2-12-82. M.E.W. CK G.V.A.

FOR INFORMATION ONLY

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.		061783	95	123
				(1) SITE NO. 7 - FOR INFORMATION ONLY				

167

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-IR-30-2(113)32	98	144
				JOB NO.		60025	110	156
				(1) 2758FW DTLS WINGWALLS				23575



SOUTH ABUTMENT WINGWALLS

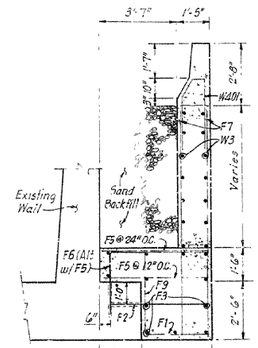
NORTH ABUTMENT WINGWALLS

LEGEND

N.F.	Near Face
F.F.	Far Face
S.W.	South West
S.E.	South East
N.W.	North West
N.E.	North East

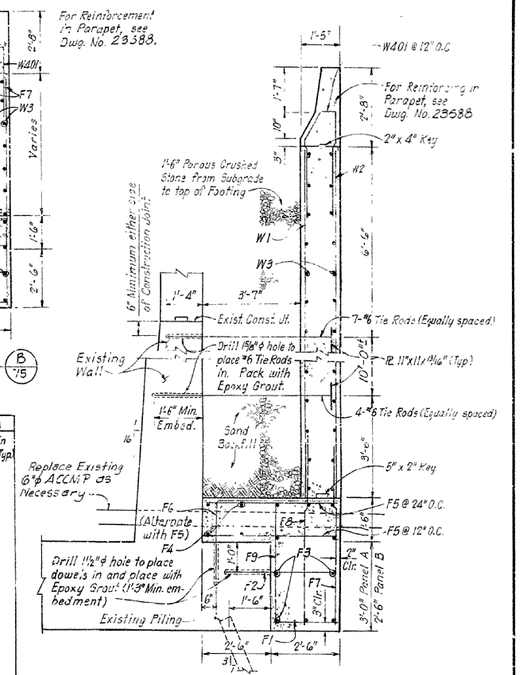
ELEVATIONS

Scale: None



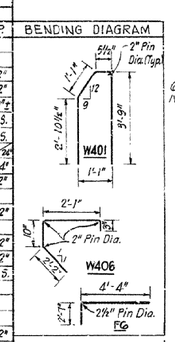
SECTION B-B (B/75)

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

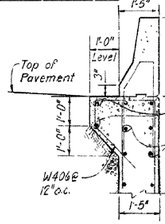


A/75 SECTION A-A

Scale: ½"=1'-0"



BENDING DIAGRAM



SECTION AT WINGWALL SHOWING GUTTER SECTION BEYOND APPROACH SLAB (C/75)

Scale: ½"=1'-0"

SOUTH ABUTMENT WINGWALL REINFORCING SCHEDULE

SOUTHWEST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A					PANEL C SECT. B-B				
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	16	* 20'-0½"	12"	W503	15	* 13'-1"	12"	——			
W2	W502	16	* 20'-0½"	12"	W503	15	* 13'-1"	12"	——			
W3	W403	42	17'-7½"	12"	W404	26	15'-8"	12"	W405	16	15'-8"	12"
F1	F502	25	2'-2"	12"	F502	15	2'-2"	12"	F508	15	2'-8"	12"
F2	F503	5	3'-7"	4.0"±	F503	5	3'-7"	4.0"±	F509	5	4'-1"	4.0"±
F3	F402	5	20'-4"	A.S.	F4..	5	13'-8"	A.S.	F405	5	14'-2"	A.S.
F4	F504	9	15'-5"	A.S.	F404	9	13'-8"	A.S.	F405	9	14'-2"	A.S.
F5	F505	25	4'-8"	12"/24"	F505	22	4'-8"	12"/24"	F505	23	4'-8"	12"/24"
F6	F506	9	6'-9½"	24"	F506	8	6'-9½"	24"	F506	8	6'-9½"	24"
F7	F507	16	* 6'-10½"	12"	F507	15	* 6'-10½"	12"	F406 to F419	2 Ea.	Varies 10"-5" to 10'-6½"	12"
F8	F601	16	* 7'-3½"	12"	F507	15	* 6'-10½"	12"	——			
F9	F403	16	4'-1"	12"	F403	15	4'-1"	12"	F420	15	3'-7"	12"
	W401	16	8'-0"	12"	W401	16	8'-0"	12"	W401	16	8'-0"	12"
	W402	2	20'-5⅛"	12"	W406	10	5'-1"	12"	W406	15	5'-1"	12"
	W501	2	20'-5⅛"	12"	W407	2	10'-8½"	A.S.	W407	2	13'-10"	A.S.
	F401	2	2'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				——			
#6 Tie Rods		4 4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	3	5'-10"		——			
	P403	16	5'-5½"	12"	P403	16	5'-5½"		P403	16	5'-5½"	12"
	P404	7	14'-8"	A.S.	P404	7	14'-8"	A.S.	P404	7	14'-8"	A.S.

A.S. = As Shown * Lap Varies

SOUTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A					PANEL C SECT. B-B				
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	18	20'-5"	12"	W503	15	13'-1"	12"	——			
W2	W502	18	20'-5"	12"	W503	15	13'-1"	12"	——			
W3	W403	42	19'-3"	12"	W404	26	15'-8"	12"	W405	16	15'-8"	12"
F1	F502	18	2'-2"	12"	F502	15	2'-2"	12"	F508	15	2'-8"	12"
F2	F503	6	3'-7"	4.0"±	F503	5	3'-7"	4.0"±	F509	5	4'-1"	4.0"±
F3	F402	6	23'-8½"	A.S.	F404	5	13'-8"	A.S.	F405	5	14'-2"	A.S.
F4	F504	9	16'-9½"	A.S.	F404	9	13'-8"	A.S.	F405	9	14'-2"	A.S.
F5	F505	27	4'-8"	12"/24"	F505	22	4'-8"	12"/24"	F505	23	4'-8"	12"/24"
F6	F506	9	6'-9½"	24"	F506	8	6'-9½"	24"	F506	8	6'-9½"	24"
F7	F507	18	6'-5"	12"	F507	15	5'-5"	12"	F406	28	10'-4½"	12"
F8	F601	18	6'-10"	12"	F507	15	6'-10"	12"	——			
F9	F403	18	4'-1"	12"	F403	15	4'-1"	12"	F407	15	3'-7"	12"
	W401	16	8'-0"	12"	W401	16	8'-0"	12"	W401	16	8'-0"	12"
	W403	2	20'-11⅞"	12"	W406	12	5'-1"	12"	W406	15	5'-1"	12"
	W501	2	20'-11⅞"	12"	W407	2	12'-6"	A.S.	W407	2	13'-10"	A.S.
	W401	2	2'-9"	12"					——			
	F501	2	3'-5"	12"					——			
#6 Tie Rods		4 4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	3	5'-10"	A.S.	——			
	P403	16	5'-5½"	12"	P403	16	5'-5½"	12"	P403	16	5'-5½"	12"
	P404	7	14'-8"	A.S.	P404	7	14'-8"	A.S.	P404	7	14'-8"	A.S.

A.S. = As Shown

NORTH ABUTMENT WINGWALL REINFORCING SCHEDULE

** NORTHWEST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A					PANEL C SECT. B-B				
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	13	* 17'-6½"	12"	W503	13	* 9'-9"	12"	——			
W2	W502	13	* 17'-6½"	12"	W503	13	* 9'-9"	12"	——			
W3	W403	40	13'-10½"	12"	W404	20	14'-2"	12"	W405	10	14'-2"	12"
F1	F502	19	2'-2"	12"	F502	14	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	4	3'-7"	4.0"±	F503	5	3'-7"	4.0"±	F509	4	4'-1"	4.0"±
F3	F402	5	18'-0"	A.S.	F404	5	12'-2"	A.S.	F405	5	12'-2"	A.S.
F4	F504	9	11'-8½"	A.S.	F404	9	12'-2"	A.S.	F405	9	12'-2"	A.S.
F5	F505	19	4'-8"	12"/24"	F505	21	4'-8"	12"/24"	F505	21	4'-8"	12"/24"
F6	F506	7	6'-9½"	24"	F506	7	6'-9½"	24"	F506	7	6'-9½"	24"
F7	F507	13	* 6'-9½"	12"	F507	13	* 6'-9½"	12"	F406 to F418	2Ea.	Varies 8'-0½" to 8'-5½"	12"
F8	F601	13	* 7'-2½"	12"	F507	13	* 6'-9½"	12"	——			
F9	F403	13	4'-1"	12"	F403	13	4'-1"	12"	F419	13	3'-7"	12"
	W401	13	8'-0"	12"	W401	13	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	18'-6"	12"	W406	6	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	18'-6"	12"	W407	2	6'-0"	A.S.	W407	2	12'-4"	A.S.
	F401	2	2'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				——			
#6 Tie Rods		4 4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	——			
	P403	13	5'-5½"	12"	P403	13	5'-5½"	12"	P403	13	5'-5½"	12"
	P404	7	11'-11½"	A.S.	P401	7	11'-11½"	A.S.	P404	7	11'-11½"	A.S.

A.S. = As Shown * Lap Varies

** NORTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A					PANEL C SECT. B-B				
TYPE	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.	MARK	NO.	LENGTH	SP.
W1	W601	12	* 17'-0"	12"	W503	13	* 10'-11½"	12"	——			
W2	W501	12	* 17'-0"	12"	W503	13	* 10'-11½"	12"	——			
W3	W403	38	12'-5½"	12"	W404	20	14'-2"	12"	W405	10	14'-2"	12"
F1	F502	17	2'-2"	12"	F502	14	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	5	3'-7"	4.0"±	F503	5	3'-7"	4.0"±	F509	4	4'-1"	4.0"±
F3	F402	5	15'-10½"	A.S.	F404	5	12'-2"	A.S.	F405	5	12'-2"	A.S.
F4	F504	9	10'-3"	A.S.	F404	9	12'-2"	A.S.	F405	9	12'-2"	A.S.
F5	F505	16	4'-8"	12"/24"	F505	21	4'-8"	12"/24"	F505	21	4'-8"	12"/24"
F6	F506	6	6'-9½"	24"	F506	7	6'-9½"	24"	F506	7	6'-9½"	24"
F7	F507	12	* 6'-9"	12"	F507	13	6'-9½"	12"±	F406 to F418	2Ea.	Varies 7'-2" to 7'-10½"	12"
F8	F601	12	* 7'-2"	12"	F507	13	6'-9½"	12"	——			
F9	F403	12	4'-1"	12"	F403	13	4'-1"	12"	F419	13	3'-7"	12"
	W401	13	8'-0"	12"	W401	13	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	17'-11"	12"	W406	4	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	17'-11"	12"	W407	2	4'-7½"	A.S.	W407	2	12'-4"	A.S.
	F401	2	2'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				——			
#6 Tie Rods		4 4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	——			
	P403	13	5'-5½"	12"	P403	13	5'-5½"	12"	P405	13	5'-5½"	12"
	P404	7	11'-5½"	A.S.	P404	7	11'-5½"	A.S.	P403	7	11'-5½"	A.S.

A.S. = As Shown * Lap Varies ** Reinf. for Guard Rail Conn. Not Reflected in Schedule. (See Dwg. 29584)

NOTES:

1. For Details of Parapet Reinforcement see Drawing No. 29533.
2. Porous Crushed Stone and Sand Backfill shall not be paid for directly but shall be considered subsidiary to the Item "Unclassified Excavation For Structures - Bridges" (Approx. Quan. for W. Abut. Wingwalls = 94.0 Cu. Yds. E. Abut. Wingwalls = 187.50 Cu. Yds.)
3. See Drawing No. 23574 For Location and Direction of Sections.

SHEET 1 OF 1

DETAILS OF WINGWALLS
I-30 OVER E. 13th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: G.S.B. DATE: 2-80
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: M.W.A. DATE: 1-80
SCALE: As Noted

BRIDGE ENGINEER

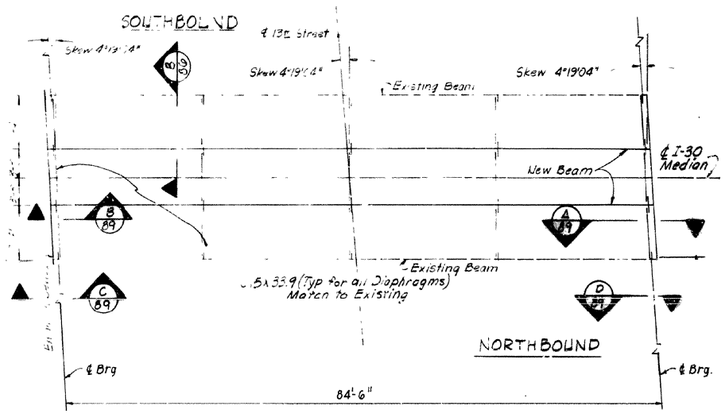
BRIDGE NO. 2758 FW DRAWING NO. 23575

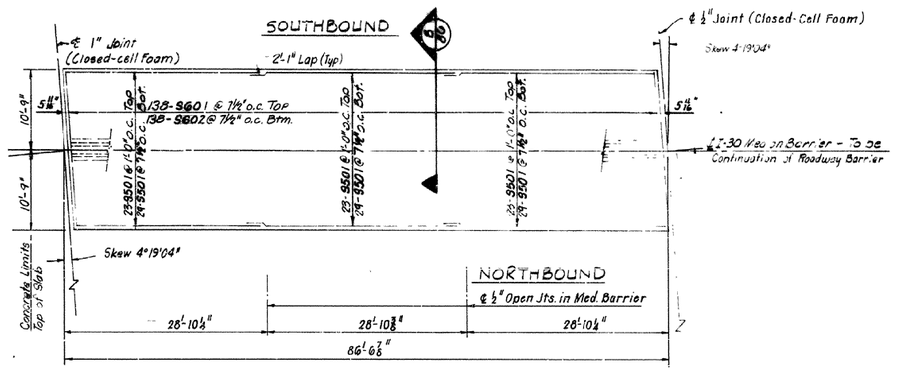
FOR INFORMATION ONLY

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.		061783	96	123
				① SITE NO. 7 - FOR INFORMATION ONLY				

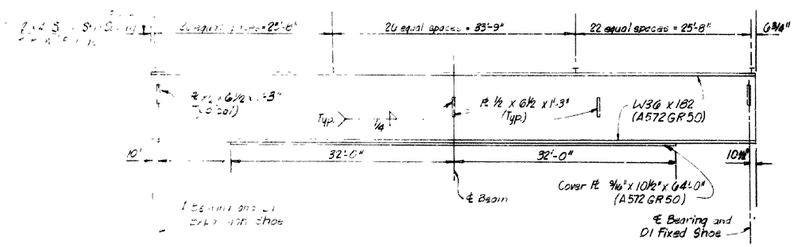
393

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-17-82				6	ARK.	IR-30-2(157)060	94	131
				JOB NO.		60023	99	136
				① 2768FW DTLS SPANS				23576





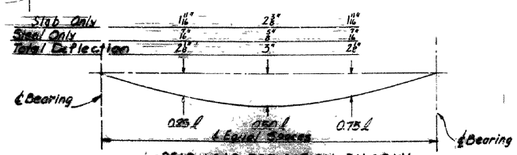
FRAMING PLAN
Scale: 1/8"=1'-0"



ELEVATION
Scale: None

REINFORCEMENT SCHEDULE				
	MARK	No.	LENGTH	PIN. DIA.
SLAB	S401	174	3'-10"	2"
	S501	156	30'-1"	Str.
	S601	138	21'-4"	Str.
	S602	138	20'-10"	Str.
	S402	24	28'-6"	Str.

NOTE:
For Bending Diagram of S401 at Median Barrier see Drawing No. 23586.



DEAD LOAD DEFLECTION DIAGRAM
Scale 1"=1'-0"

SLAB PLAN (WIDENING)
Scale: 1/8"=1'-0"

Notes:
1. For Details of Shoes & Typical Sections see Drawing No 23586.

Revised: For Widening & Median Only. 2-17-82. M.E.W. CK. G.V.A.

SHEET 1 OF 1

DETAILS OF SPAN
I-30 OVER E. 13th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.S.L. DATE: 12/79
CH. DSGD BY: T.B.M. DATE: 2/80
DESIGNED BY: R.C.L./M.R.H. DATE: 11/79
SCALE: As Noted

BRIDGE ENGINEER

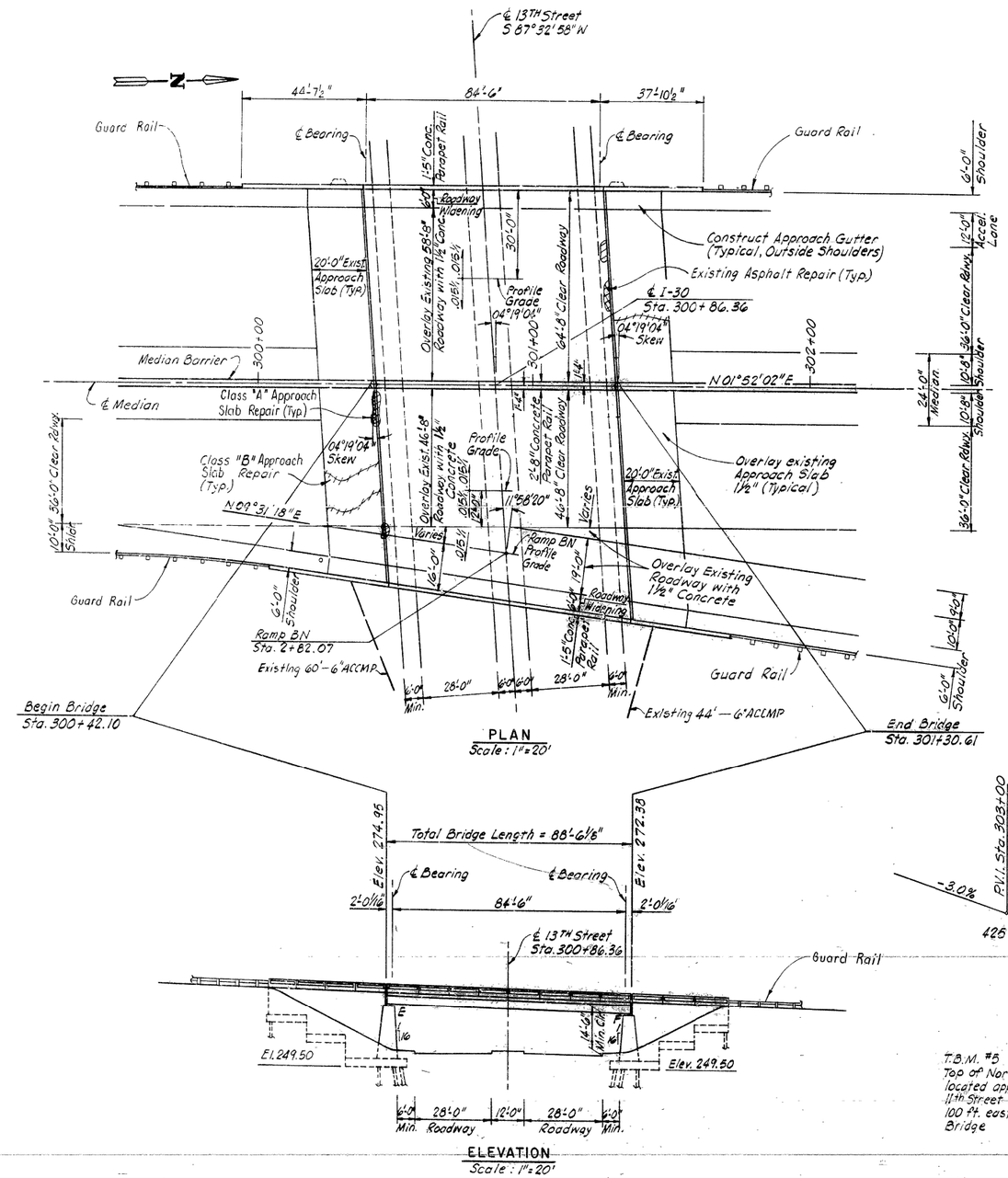
BRIDGE NO. 2768 FW DRAWING NO. 23576

FOR INFORMATION ONLY

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.		061783	97	123
				(1)	SITE NO. 7 - FOR INFORMATION ONLY			

334

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(174)141		
				JOB NO.		60255	81	127
				(1)	2768 FW -	LAYOUT -	25815	



Legend:

▨ - Class "A" Bridge Floor Repair (See Drawing No. 25828.)

NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations with 1½" Concrete Overlay.
3. For Guard Rail Connection Details see Drawing No. 25829.
4. For Approach Gutter Details See Drawing No. 25832.
5. For Abutment Modification Details see Drwg. Nos. 25804 & 25816-25818.
6. For Span Modification Details see Drwg. No. 25819.

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 with current Interim Specifications.

Design Live Loading: HS20 and Special Interstate Loading of two 24,000 Lb. axles spaced at 4'-0" on centers.

Unit Stresses: New Construction

Class S Concrete	F'c = 3,500 p.s.i.
Class S(AE) Concrete	F'c = 3,500 p.s.i.
Reinforcing Steel (Grade 60)	Fy = 60,000 p.s.i.
Structural Steel A-36	Fy = 36,000 p.s.i.
Structural Steel A 572 (Gr. 50)	Fy = 50,000 p.s.i.

Method of Design: Load Factor

T.B.M. #5 Elev. 268.37
Top of North bolt on fire hydrant cap located approximately 50 ft. South of 11th Street dead end, approximately 100 ft. east of I-30 under Locust St. Bridge

LAYOUT OF
I-30 OVER E. 13th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE I-30 SEC. 23
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 9-79
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: T.B.H. DATE: 9-79
SCALE: As Noted

Earl Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 25815

FOR INFORMATION ONLY

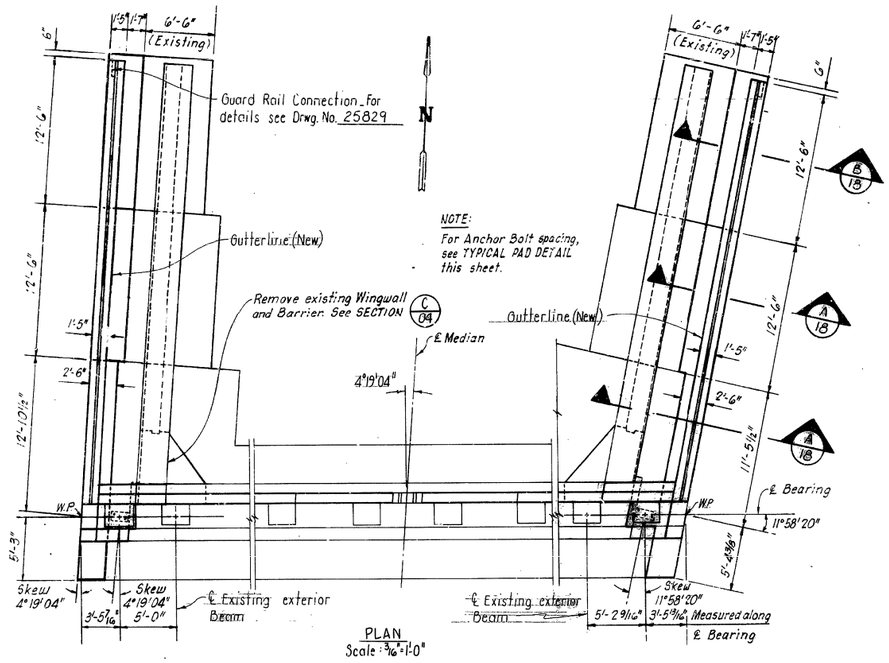
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	98	123

(1) SITE NO. 7 - FOR INFORMATION ONLY

333

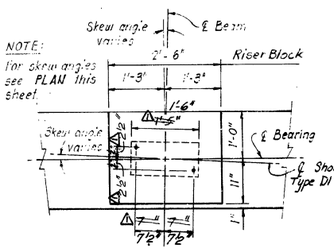
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO	TOTAL SHEETS
6-23-83	6-23-83			6	ARK.	IR-30-2(074)141		
				JOB NO.		60255	82	127

(1) 2768 FW - N. ABUT. - 25816

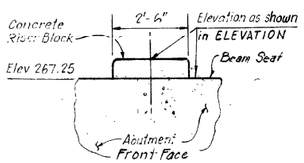


PLAN
Scale: 3/16"=1'-0"

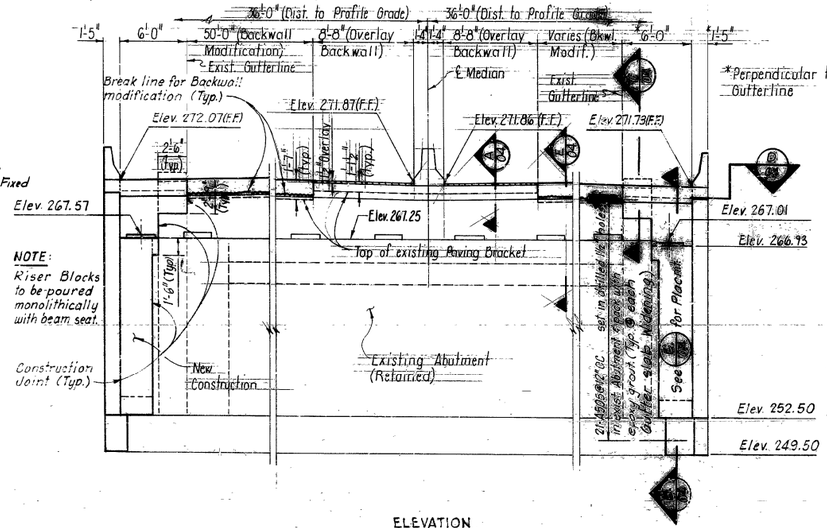
Note:
Backwall dimensions are perpendicular to ℄ Median except as noted.



TYPICAL PAD DETAIL
Scale: 3/4"=1'-0"



RISER BLOCK
Scale: None



ELEVATION
Scale: 3/16"=1'-0"

6-23-83 Rev Anchor Bolt Location to accept welded shoes CES

NOTES:

1. For Reinforcing Schedule and Section cuts, see Drawing No. 25804.
2. For Details of Wingwalls, see Drawing No. 25818
3. For Joint Details, see Drawing No. 25827
4. For Shoe Details see Drawing No. 25828
5. Heavy Lines Represent New Construction.
6. "F.F." Indicates Far Face.

DETAILS OF NORTH ABUTMENT
I-30 OVER E. 13th STREET
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-27-83 SCALE: AS NOTED
DESIGNED BY: DATE:

Earl Dickerson
BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 25816

FOR INFORMATION ONLY

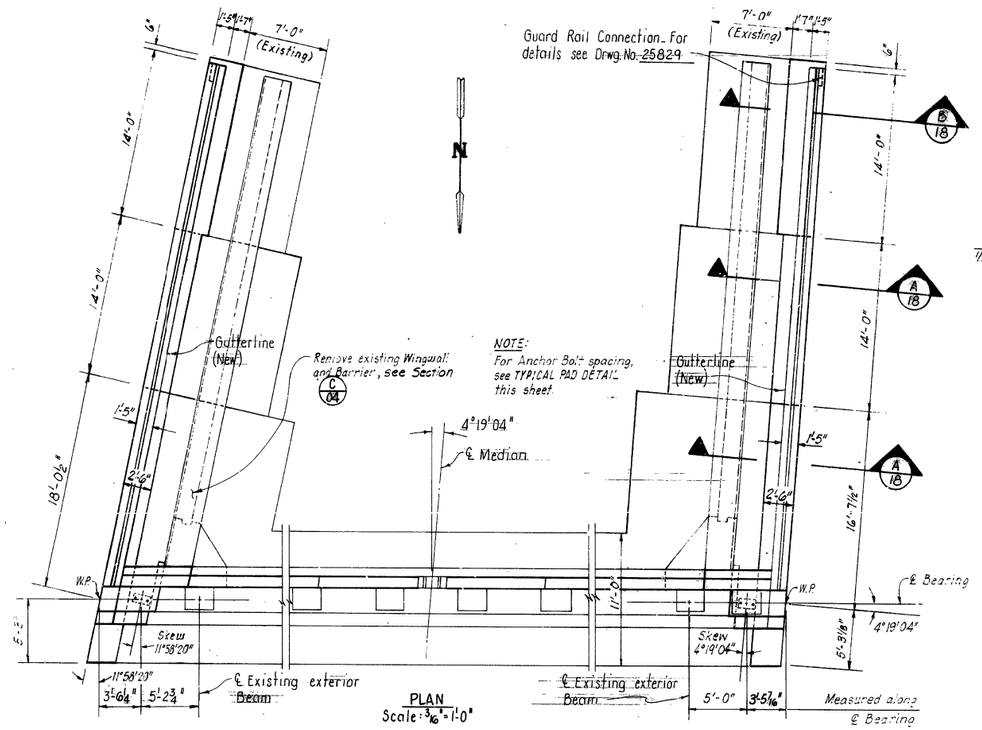
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	99	123

(1) SITE NO. 7 - FOR INFORMATION ONLY

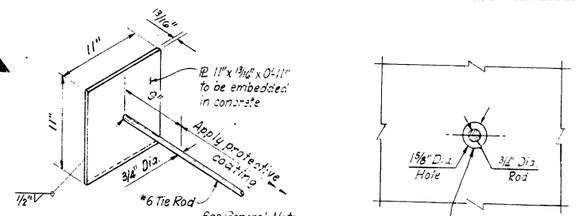
336

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(136)141		
				JOB NO.		60255	83	127

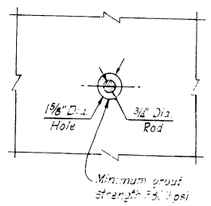
(1) 2768 FW - S. ABUT. - 25817



PLAN
Scale: 3/16" = 1'-0"

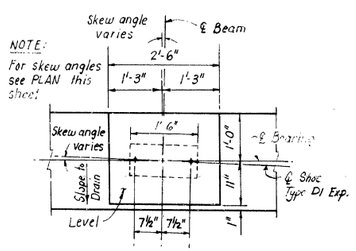


TIE ANCHOR IN NEW WALL
Scale: 1½"=1'-0"

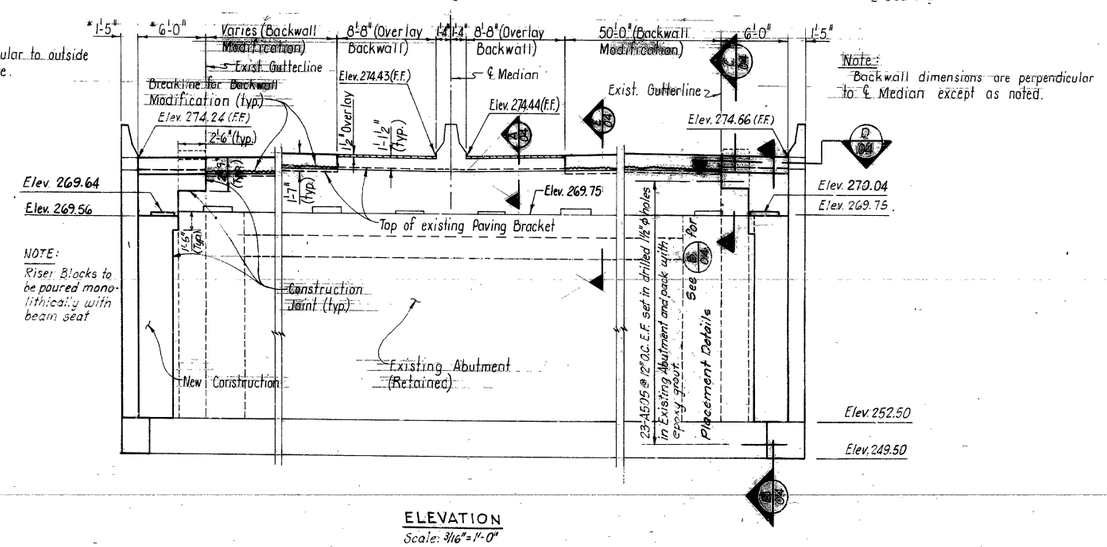


TIE AT EXISTING WALL
Scale: 3"=1'-0"

NOTES: 1. 11" x 13/16" x 0'-11" PL for Tie Rods to be considered subsidiary to the pay item "Structural Steel in Beam Spans, A36."
2. For Placement of Tie Rods see Dwg. No. 25818.



TYPICAL PAD DETAIL
Scale: 3/4"=1'-0"



ELEVATION
Scale: 3/16"=1'-0"

NOTES:
1. For Reinforcing Schedule and Sections, see Drawing No. 25804.
2. For details of Wingwalls, see Drawing No. 25818.
3. For Riser Block Details see Dwg. No. 25816.
4. Heavy Lines Represent New Construction.
5. "F.F." Indicates Far Face.

DETAILS OF SOUTH ABUTMENT
I-30 OVER E. 13th STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-7-83
DESIGNED BY: DATE:
SCALE: As Noted

Ernest Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 25817

FOR INFORMATION ONLY

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.		061783	100	123

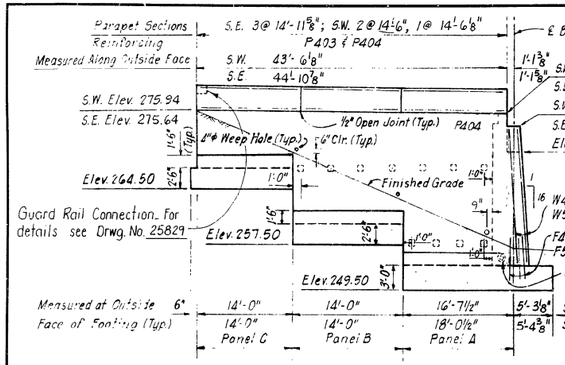
(1) SITE NO. 7 - FOR INFORMATION ONLY

337

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	IR-30-2(74)141		
JOB NO.		60255	84	127

(1) 2768FW - WINGWALLS - 25818

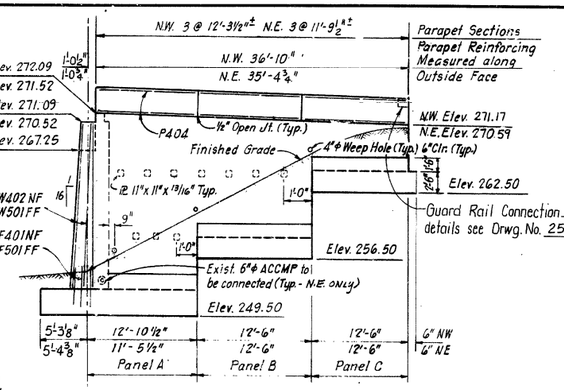


SOUTH ABUTMENT WINGWALLS

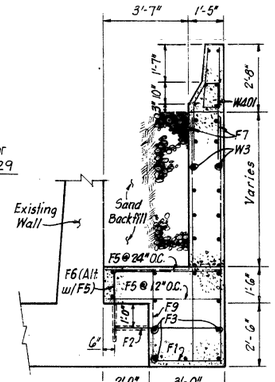
LEGEND

N.F.	Near Face
F.F.	Far Face
S.W.	South West
S.E.	South East
N.W.	North West
N.E.	North East

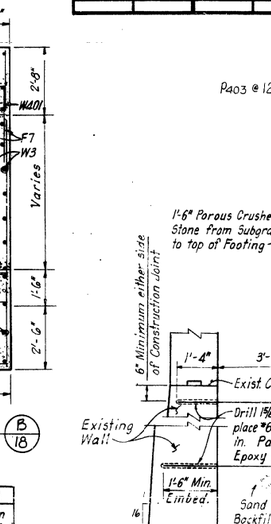
ELEVATIONS
Scale: None



NORTH ABUTMENT WINGWALLS



SECTION B-B (B/18)
Scale: 3/8"=1'-0"



4-#6 Tie Rods (Eq. Sp.) - S. Abut.
3-#6 Tie Rods (Eq. Sp.) - N. Abut.

(A/18) SECTION A-A
Scale: ½"=1'-0"

SOUTH ABUTMENT WINGWALL REINFORCING SCHEDULE

SOUTHWEST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP
W1	W601	16	* 20'-3"	12"	W503	15	* 13'-3"	12"	——			
W2	W502	16	* 22'-3"	12"	W503	15	* 13'-3"	12"	——			
W3	W403	44	17'-11"	12"	W404	30	15'-8"	12"	W404	16	15'-8"	12"
F1	F502	22	2'-2"	12"	F502	15	2'-2"	12"	F508	15	2'-8"	12"
F2	F503	6	3'-7"	4'-0"±	F503	5	3'-7"	3'-0"±	F509	5	4'-1"	3'-0"±
F3	F402	5	21'-6"	A.S.	F404	5	13'-8"	A.S.	F405	5	14'-2"	A.S.
F4	F504	9	13'-7"	A.S.	F404	9	13'-8"	A.S.	F404	7	13'-8"	A.S.
F5	F505	23	4'-8"	12"/24"	F505	23	4'-8"	12"/24"	F505	23	4'-8"	12"/24"
F6	F506	7	6'-9½"	24"	F506	7	6'-9½"	24"	F506	7	6'-9½"	24"
F7	F507	16	6'-5"	12"	F507	15	6'-5"	12"				
F8	F601	16	6'-10"	12"	F507	15	6'-5"	12"				
F9	F403	15	4'-1"	12"	F407	15	3'-7"	12"	F407	15	3'-7"	12"
	W401	15	8'-0"	12"	W401	15	8'-0"	12"	W401	15	8'-0"	12"
	W402	2	20'-11"	12"	W406	10	5'-1"	12"	W406	15	5'-1"	12"
	W501	2	20'-11"	12"	W407	2	12'-3"	A.S.	W407	2	12'-3"	A.S.
	F401	2	1'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				——			
	#6 Tie Rods	4/4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	3	5'-10"		P601**	2	9'-10½"	A.S.
	P402**	15	5'-5½"	12"	P403**	15	5'-5½"	12"	P602**	2	8'-0½"	A.S.
	P404	6	14'-2½"	A.S.	P404	6	14'-2½"	A.S.	P403**	15	5'-5½"	12"
									P404	6	14'-2½"	A.S.

A.S. = As Shown * = Lap Varies

SOUTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP
W1	W601	18	19'-10"	12"	W503	15	12'-11"	12"	——			
W2	W502	18	19'-10"	12"	W503	15	12'-11"	12"	——			
W3	W403	44	19'-4"	12"	W404	30	15'-8"	12"	W404	16	15'-8"	12"
F1	F502	24	2'-2"	12"	F502	15	2'-2"	12"	F508	15	2'-8"	12"
F2	F503	6	3'-7"	4'-0"±	F503	4	3'-7"	4'-0"±	F509	5	4'-1"	3'-0"±
F3	F402	5	23'-0"	A.S.	F404	5	13'-8"	A.S.	F405	5	14'-2"	A.S.
F4	F504	9	15'-0"	A.S.	F404	9	13'-8"	A.S.	F404	7	13'-8"	A.S.
F5	F505	24	4'-8"	12"/24"	F505	23	4'-8"	12"/24"	F505	28	4'-8"	12"/24"
F6	F506	8	6'-9½"	24"	F506	7	6'-9½"	24"	F506	1	6'-9½"	24"
F7	F507	18	6'-5"	12"	F507	15	6'-5"	12"	F406	28	10'-3"	12"
F8	F601	18	6'-10"	12"	F507	15	6'-5"	12"	——			
F9	F403	16	4'-1"	12"	F407	15	3'-7"	12"	F407	15	3'-7"	12"
	W401	16	8'-0"	12"	W401	16	8'-0"	12"	W401	16	8'-0"	12"
	W402	2	20'-6"	12"	W406	9	5'-1"	12"	W406	15	5'-1"	12"
	W501	2	20'-6"	12"	W407	2	11'-10"	A.S.	W407	2	11'-10"	A.S.
	F401	2	2'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				P601**	2	9'-10½"	A.S.
	#6 Tie Rods	4/4	5'-8" / 5'-10"	A.S.	#6 Tie Rods	3	5'-10"	A.S.	P602**	2	8'-0½"	A.S.
	P403**	16	5'-5½"	12"	P403**	16	5'-5½"	12"	P403**	16	5'-5½"	12"
	P404	6	14'-8"	A.S.	P404	6	14'-8"	A.S.	P404	6	14'-8"	A.S.

A.S. = As Shown.

NORTH ABUTMENT WINGWALL REINFORCING SCHEDULE

NORTHWEST WINGWALL

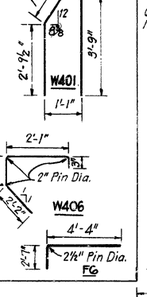
PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP
W1	W601	13	* 17'-5"	12"	W503	13	* 10'-7"	12"	——			
W2	W502	13	* 17'-5"	12"	W503	13	* 10'-7"	12"	——			
W3	W403	36	14'-0"	12"	W404	22	14'-2"	12"	W404	10	14'-2"	12"
F1	F502	19	2'-2"	12"	F502	13	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	5	3'-7"	4'-0"±	F503	5	3'-7"	3'-0"±	F509	4	4'-1"	3'-6"±
F3	F402	5	17'-9"	A.S.	F404	5	12'-2"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	9'-10"	A.S.	F404	9	12'-2"	A.S.	F404	7	12'-2"	A.S.
F5	F505	17	4'-8"	12"/24"	F505	20	4'-8"	12"/24"	F505	20	4'-8"	12"/24"
F6	F506	6	6'-9½"	24"	F506	6	6'-9½"	24"	F506	6	6'-9½"	24"
F7	F507	13	6'-5"	12"	F507	13	6'-5"	12"	F406	26	8'-3"	12"
F8	F601	13	6'-10"	12"	F507	13	6'-5"	12"	——			
F9	F403	11	4'-1"	12"	F407	13	3'-7"	12"	F407	13	3'-7"	12"
	W401	13	8'-0"	12"	W401	13	8'-0"	12"	W401	13	8'-0"	12"
	W402	2	18'-5"	12"	W406	4	5'-1"	12"	W406	13	5'-1"	12"
	W501	2	18'-5"	12"	W407	2	8'-5"	A.S.	W407	2	8'-5"	A.S.
	F401	2	2'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				P601**	2	9'-10½"	A.S.
	#6 Tie Rods	3/3	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	P602**	2	8'-0½"	A.S.
	P403**	12	5'-5½"	12"	P403**	12	5'-5½"	12"	P403**	12	5'-5½"	12"
	P404	6	11'-5½"	A.S.	P404	6	11'-5½"	A.S.	P404	6	11'-5½"	A.S.

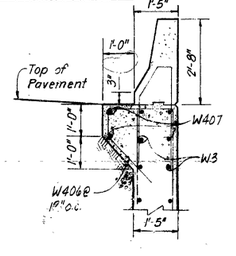
NORTHEAST WINGWALL

PANEL A SECT. A-A					PANEL B SECT. A-A				PANEL C SECT. B-B			
TYPE	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP	MARK	NO.	LENGTH	SP
W1	W601	11	* 17'-0"	12"	W503	13	* 10'-1½"	12"	——			
W2	W501	11	* 17'-0"	12"	W503	13	* 10'-1½"	12"	——			
W3	W403	36	12'-7"	12"	W404	22	14'-2"	12"	W404	10	14'-2"	12"
F1	F502	17	2'-2"	12"	F502	13	2'-2"	12"	F508	13	2'-8"	12"
F2	F503	5	3'-7"	4'-0"±	F503	5	3'-7"	3'-0"±	F509	4	4'-1"	3'-6"±
F3	F402	5	16'-5"	A.S.	F404	5	12'-2"	A.S.	F405	5	12'-8"	A.S.
F4	F504	9	8'-5"	A.S.	F404	9	12'-2"	A.S.	F404	7	12'-2"	A.S.
F5	F505	14	4'-8"	12"/24"	F505	20	4'-8"	12"/24"	F505	20	4'-8"	12"/24"
F6	F506	4	6'-9½"	24"	F506	6	6'-9½"	24"	F506	6	6'-9½"	24"
F7	F507	11	6'-5"	12"	F507	13	6'-5"	12"	F406	26	7'-8"	12"
F8	F601	11	6'-10"	12"	F507	13	6'-5"	12"	——			
F9	F403	10	4'-1"	12"	F407	13	3'-7"	12"	F407	13	3'-7"	12"
	W401	12	8'-0"	12"	W401	12	8'-0"	12"	W401	12	8'-0"	12"
	W402	2	17'-10"	12"					W406	13	5'-1"	12"
	W501	2	17'-10"	12"					W407	2	12'-5"	A.S.
	F401	2	2'-9"	12"	——				——			
	F501	2	3'-5"	12"	——				P601**	2	9'-10½"	A.S.
	#6 Tie Rods	3/3	5'-8" / 5'-10"	A.S.	#6 Tie Rods	4	5'-8"	A.S.	P602**	2	8'-0½"	A.S.
	P403**	12	5'-5½"	12"	P403**	12	5'-5½"	12"	P403**	12	5'-5½"	12"
	P404	6	11'-5½"	A.S.	P404	6	11'-5½"	A.S.	P404	6	11'-5½"	A.S.

A.S. = As Shown * Lap Varies ** For Bending Diagrams see Drwg. No. 25829 (P603) or 25789 (P601 & P602)

BENDING DIAGRAM





SECTION AT WINGWALL SHOWING GUTTER SECTION BEYOND APPROACH SLAB (C/18)
Scale: ½"=1'-0"

NOTES:

1. For Details of Parapet Reinforcement, see Drawing No. 25829.
2. Porous Crushed Stone and Sand Backfill shall not be paid for directly but shall be considered subsidiary to the Item "Unclassified Excavation For Structures-Bridges" (Approx. Quan. for N. Abut. Wingwall = 94.0 Cu.Yds. S. Abut. Wingwall = 127.50 Cu.Yds.)
3. See Drwg. Nos. 25816 & 25817 For Location and Direction of Sections.

DETAILS OF WINGWALLS
I-30 OVER E. 13th STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-7-83
DESIGNED BY: DATE:
SCALE: As Noted

Earl Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 25818

FOR INFORMATION ONLY

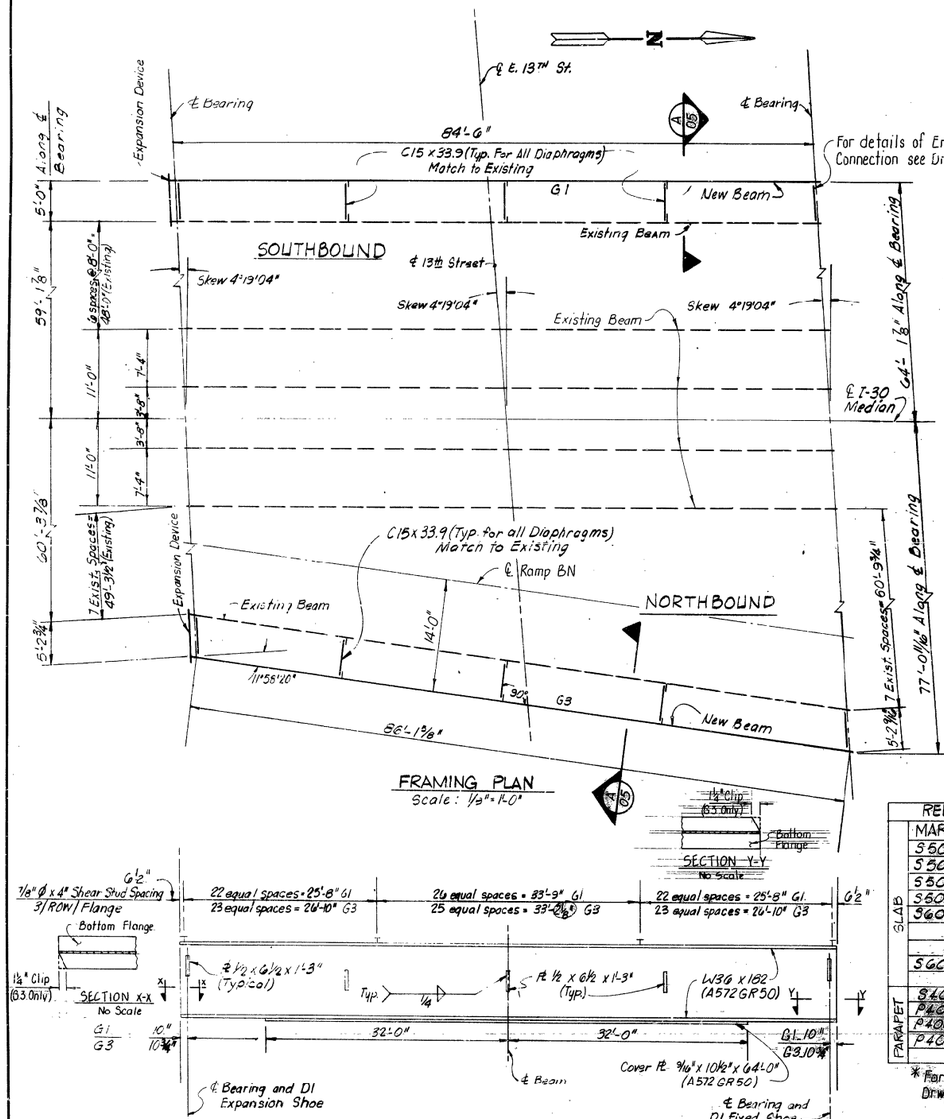
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	101	123

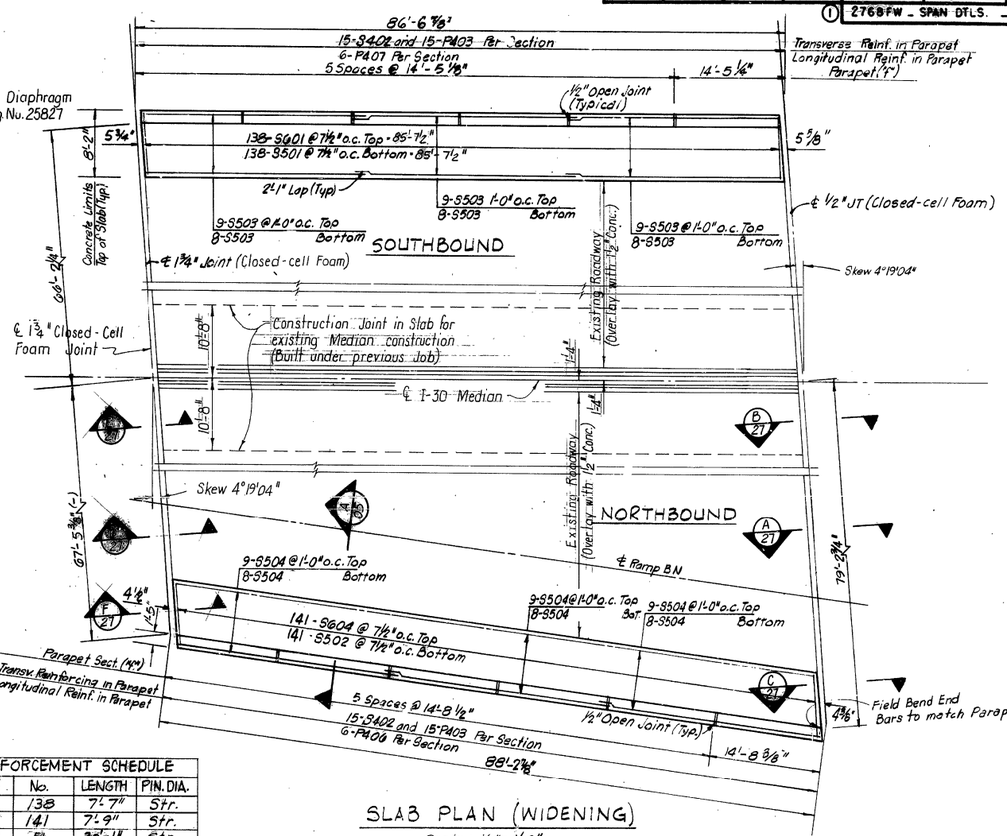
(1) SITE NO. 7 - FOR INFORMATION ONLY

338

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(124)12		
				JOB NO.		60255	65	127

(1) 2768FW - SPAN DTLS. - 25819





REINFORCEMENT SCHEDULE

	MARK	No.	LENGTH	PIN DIA.
SLAB	5501	138	7'-7"	Str.
	5502	141	7'-9"	Str.
	5503	51	36'-1"	Str.
	5504	51	30'-10"	Str.
	5601	138	7'-10"	Str.
	5604	141	8'-0"	Str.
PARAPET	5402	180	6'-2¾"	2" *
	P403	180	5'-5½"	2" *
	P406	36	14'-2½"	Str.
	P407	36	13'-11½"	Str.

* For Bending Diagrams see Dwg. No. 25827

LOAD DISTRIBUTION TO BEAM *

	Exterior Beam
Dead Load Non-Composite	639 PLF + Bm. Wt.
Dead Load Composite (Includes 144 PLF for Future Wearing Surface)	236 PLF
Live Load to Composite Beam	1.0 Wheels + Impact

* Service Loads

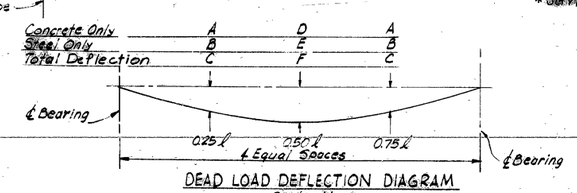
VARIABLES FOR PARAPET RAILING

"f"	PARAPET "m"	"g"	"n"	
14'-5¼"	2⅝"	2½"	14	
14'-5⅞"	2⅝"	2⅝"	14	
14'-8⅜"	4⅜"	4"	14	
14'-8½"	4¼"	4¼"	14	

ELEVATION
Scale: None

DEAD LOAD DEFLECTION TABLE

BEAM	A	B	C	D	E	F
G1	1⅛"	7/16"	1⅝"	2⅝"	⅝"	2⅝"
G3	1⅝"	½"	2⅜"	2¾"	11/16"	2⅝"



DEAD LOAD DEFLECTION DIAGRAM
Scale: None

DETAILS OF SPAN
I-30 OVER E. 13th STREET
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: DATE:
SCALE: As Noted

Fred Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 FW DRAWING NO. 25819

FOR INFORMATION ONLY

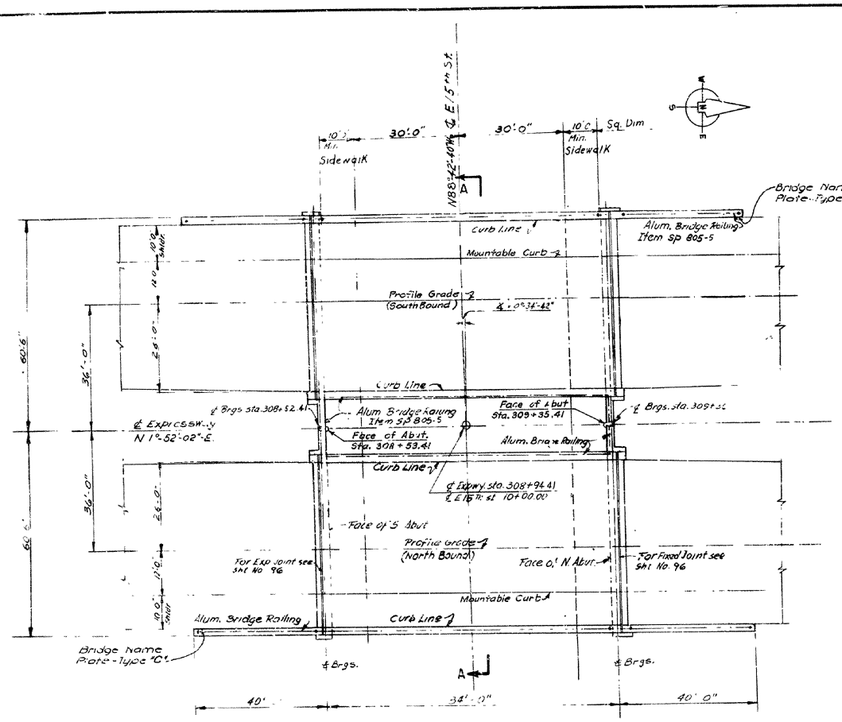
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	102	123

(1) SITE NO. 8 - FOR INFORMATION ONLY

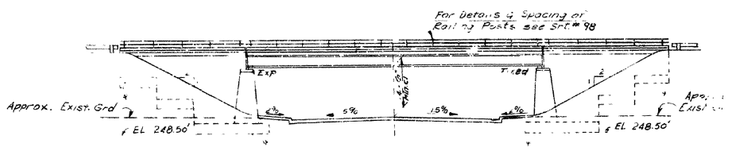
447

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		86	144
JOB NO. 6596					

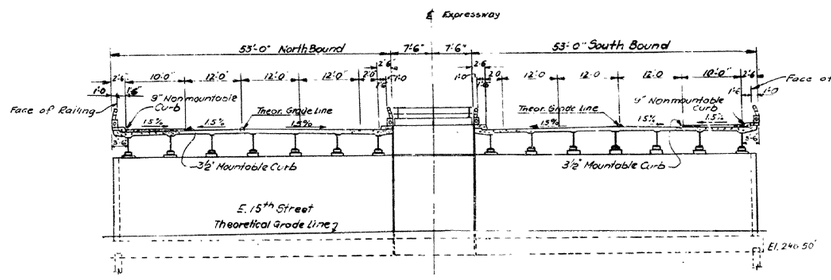
FED. AID PROJ. I-30-2(20),41



PLAN
Scale 1/16" = 1'0"



ELEVATION
Scale 1/16" = 1'0"



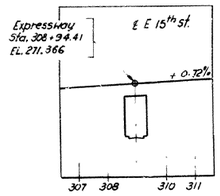
SECTION A-A
Scale 3/32" = 1'0"

Note: The Contractor shall grade embankment adjacent to this structure to provide adequate drainage away from structure as ordered by the Engineer.

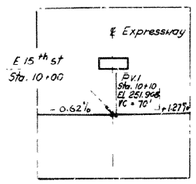
SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	SOUTH ABUT.	SPAN	NORTH ABUT.	TOTAL QUANTITIES
103	Dry Excavation for Structures	C.Y.	330		300	630
SP 125-1	Special Compaction of Earthwork	C.Y.	5900		6520	12420
SP 126-2	Embankment Material (Class EM-1)	C.Y.	5900		6520	12420
SP 127-1	Bagged Screened Gravel	C.Y.	113	–	117	230
SP & 802	Class A Concrete for Bridges	C.Y.	487	–	501	988
SP & 802	Class S Concrete for Bridges	C.Y.	4	287	4	295
SP & 803	Reinforcing Steel	LB.	29,003	42,924	29,653	101,580
SP 803-6	Shear Connectors	LB.		1,750	–	1,750
SP 804-4	Bearing Piles	L.F.	3815		3,815	7,630
SP 805-5	Aluminum Bridge Railing	L.F.	93	340	93	526
SP & 807	Structural Steel in Beam Spans	LB.	–	301,300	–	301,300
SP 860-2	Damp Proofing	S.F.	3,630	–	3,340	6,970
SP 911-2	6" Dia. Bridge Underdrain	L.F.	170	–	170	340
929	Bridge Name Plate – Type "C"	EA.	1		1	2

* Quantities shown for Shear Connectors are based on Spiral Bar Shear Connectors See Special Provisions



EXPRESSWAY PROFILE
Scale: Horiz. 1" = 200' Vert. 1" = 20'



E 15th ST. PROFILE
Scale Horiz. 1" = 200' Vert. 1" = 20'

Note: For lighting work on this sheet see sheet # 121.

REFERENCES:
General Notes - Sheet # 4
Joint Details - Sheet # 96
Architectural Details Sheet # 92
Railing Details - Sheet # 98
Embankment Const. Sheet # 100
Excavation - Sheet # 101
Boring Logs - Sheet # 95
Bridge Name - Plate Sheet # 113

Revised to show new type Aluminum Bridge Railing. E.R.& I. 5-6-60
Revised quantities for change to new type Aluminum Bridge Railing: L.H.T. 1-8-60.
Revised lighting work note. R.L.C. 1-18-60

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E 15TH ST
NORTH LITTLE ROCK
STRUCTURE NO. 29
GENERAL PLAN & SECTIONS

Revised	6-15-60	DWG. NO. 121-B 6020	SCALE As shown	DATE 2-15-52	BROWN & BLAUVELT CONSULTING ENGINEERS

Drwg. No 10511

In Charge Of W. A. Walsh
Made By O.W.E. P.S.
Traced By L.P.
Checked By P.S.

FOR INFORMATION ONLY

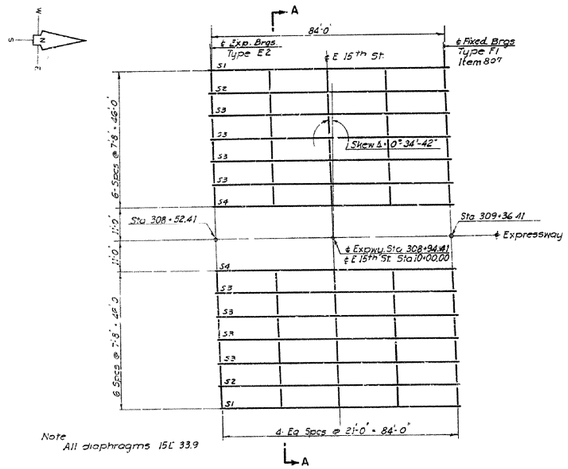
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	103	123

(1) SITE NO. 8 - FOR INFORMATION ONLY

448

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	709(29)		87	144
JOB NO. 6596					

FED AID PROJ. I-30-2(29)1(4)

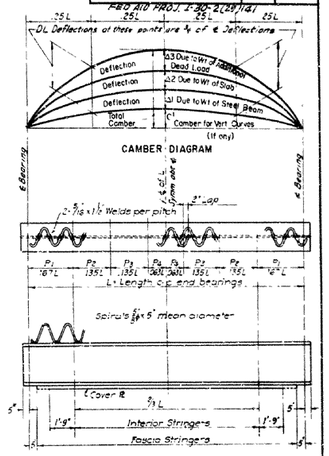


Note
All diaphragms 15L 33.9

FRAMING PLAN
Scale: 1"=20'-0"

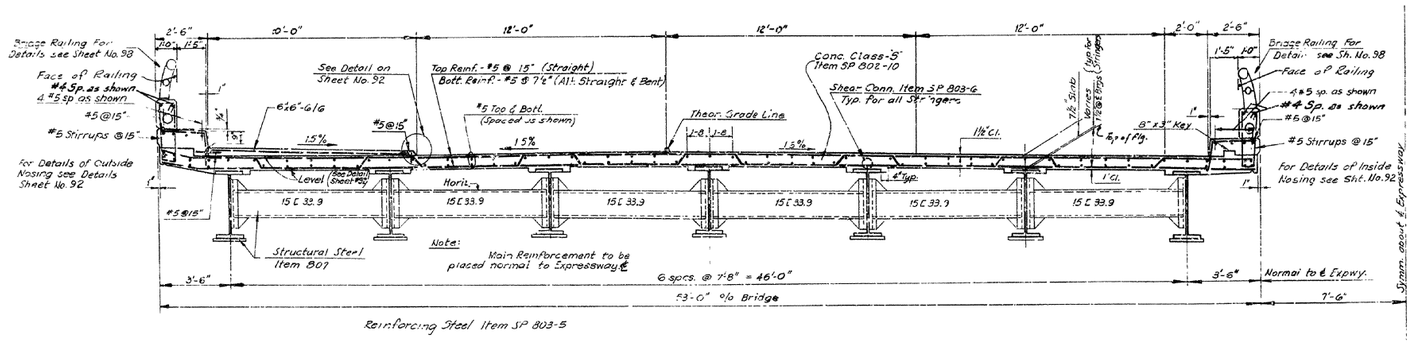
STRINGER SCHEDULE

Member	Size	Cl. ℄	P1	P2	P3	P4	Δ1	Δ2	Δ3	C1	Total Camber Center
S1	36 WF230	20'-11"	5'2"	7'0"	8'5"	10'5"	.60	1.55	.50	-	2'9
S2	36 WF230	20'-11"	5'2"	7'2"	9'0"	11'2"	.59	1.65	-	-	2'4
S3	36 WF230	20'-4 3/8"	5'2"	7'2"	9'0"	11'2"	.59	1.65	-	-	2'4
S4	36 WF194	16'-1 1/8"	7'0"	9'0"	10'5"	13'0"	.60	1.55	.50	-	2'9



PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS
Not to Scale



Reinforcing Steel Item SP 803-5

SECTION A-A
Scale: ⅜"=1'-0"

For Int. Diaph. Conn. Details
For End Diaph. Conn. Details
For Bearing Details
For Shear Connectors
} See Sheet No. 93

Revised to show new type Aluminum Bridge Railing. E.R.B. 1-5-60.
Revised lighting work note. R.L.C. 1-18-60

General Arrangement and Sections See Sheet No. 86

Note: For lighting work on this sheet see sheet # 121.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 15th ST.
NORTH LITTLE ROCK
STRUCTURE NO. 29
FRAMING PLAN

Revised	6-15-59	DWG. NO. 121-B 6021	SCALE As Noted	DATE 2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS

Engr. No. 10512

In Charge Of J. A. Walsh, Jr.
Mod. By F. A.
Traced By F. A.
Checked By H. G.

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

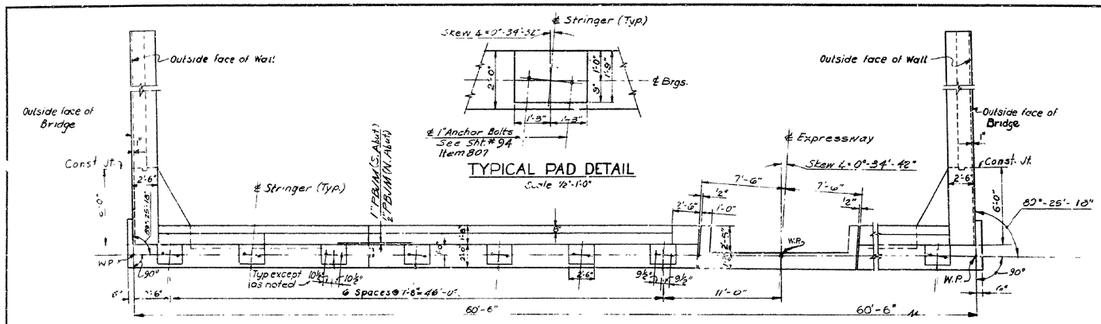
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	104	123

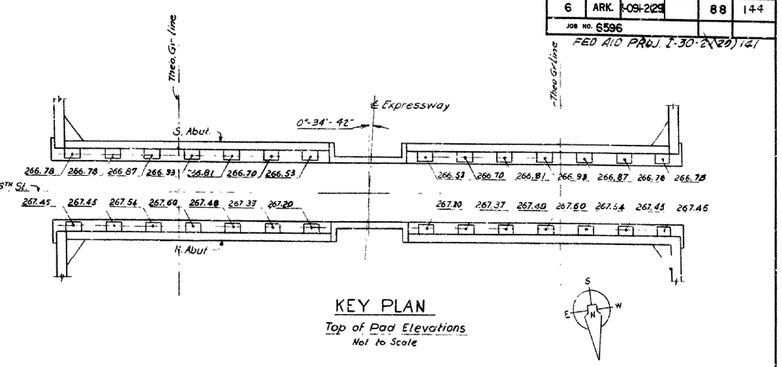
(1) SITE NO. 8 - FOR INFORMATION ONLY

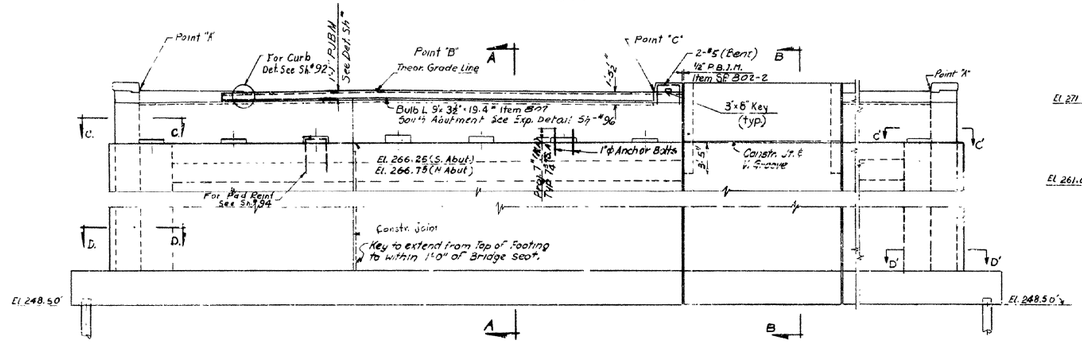
449

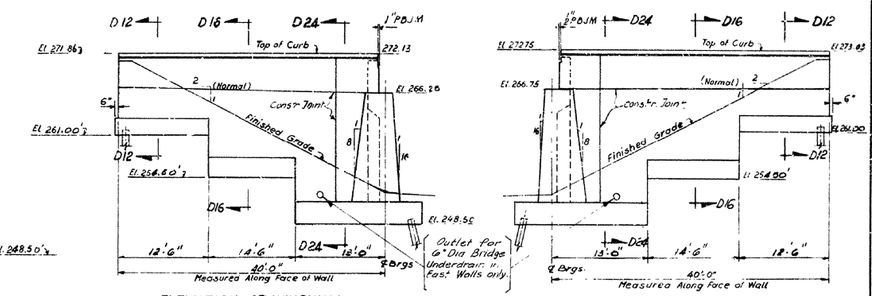
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-09-1(29)		88	144
JOB NO. 6596					

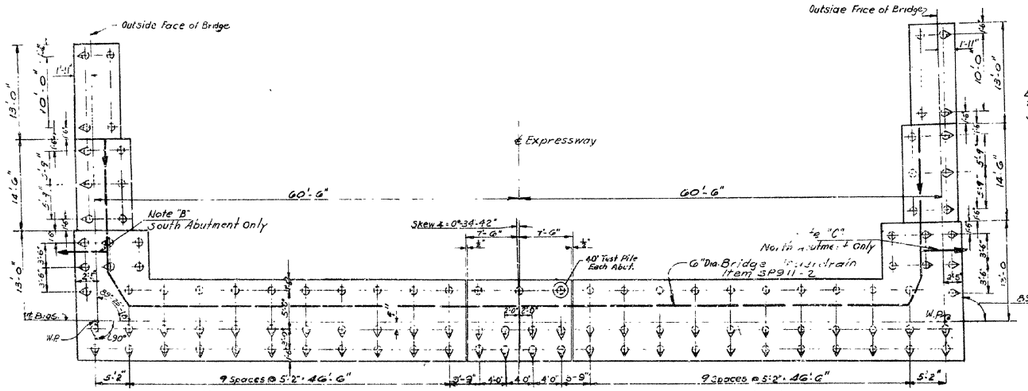
FED AID PROJ. I-30-2(28) 161

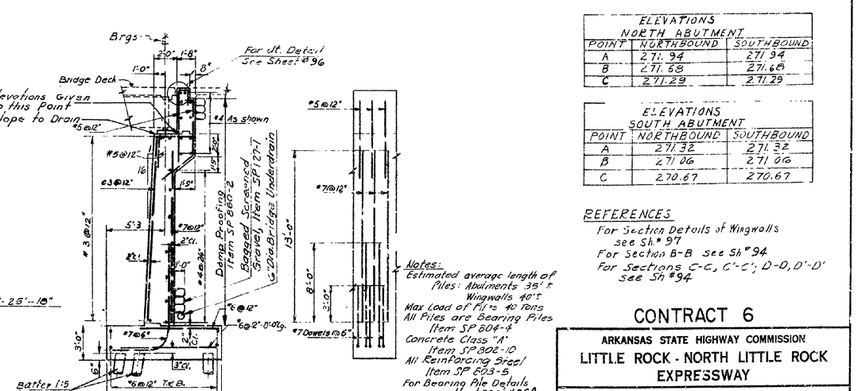












ELEVATIONS NORTH ABUTMENT		
POINT	NORTHBOUND	SOUTHBOUND
A	271.94	271.94
B	271.68	271.68
C	271.29	271.29

ELEVATIONS SOUTH ABUTMENT		
POINT	NORTHBOUND	SOUTHBOUND
A	271.32	271.32
B	271.06	271.06
C	270.67	270.67

REFERENCES
For Section Details of Wingwalls see Sh. #97
For Section B-B see Sh #94
For Sections C-C, C'-C'; D-D, D'-D' see Sh #94

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 15TH ST.
NORTH LITTLE ROCK
STRUCTURE NO. 29
ABUTMENTS & WINGWALLS

DWG. NO.	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
121-B G022	As Noted	7-15-58	

Revised 6-15-59

In Charge Of J.A. Walsh, Jr.
Mods By W.Z.
Traced By C.P.
Checked By P.W. H.G.

Engrg. No. 10.915

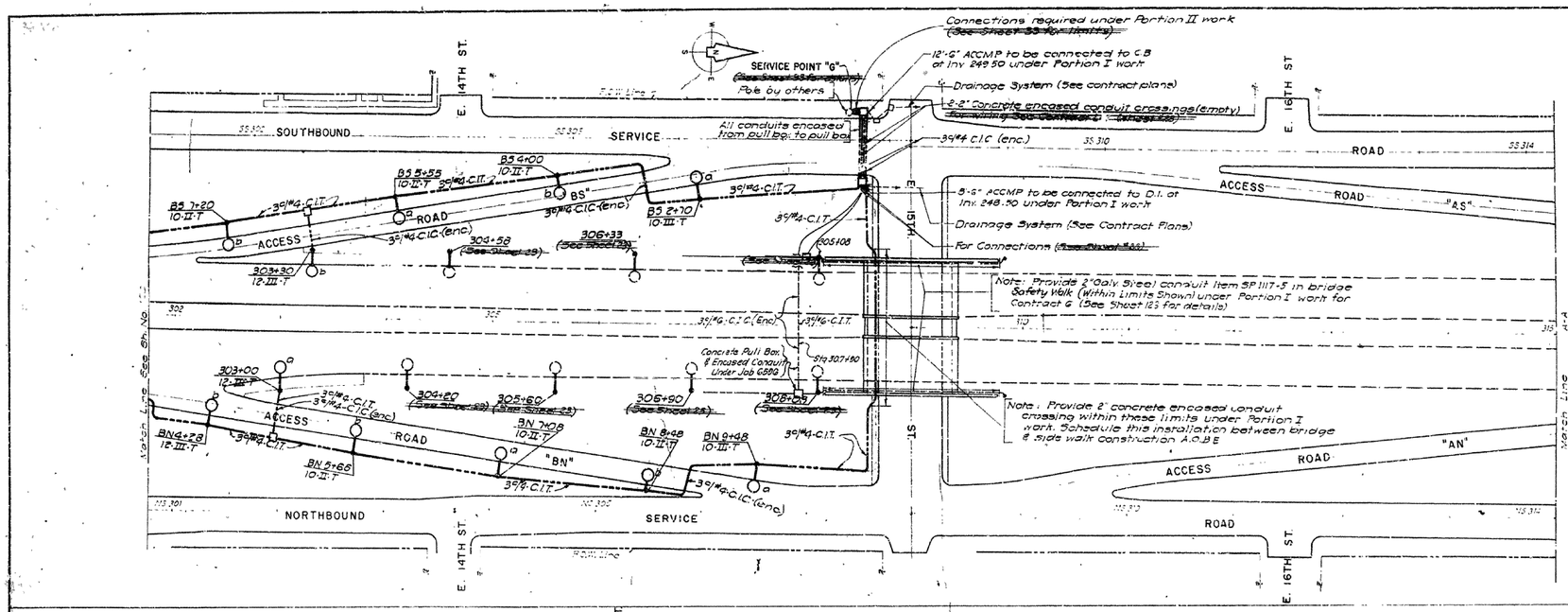
FOR INFORMATION ONLY

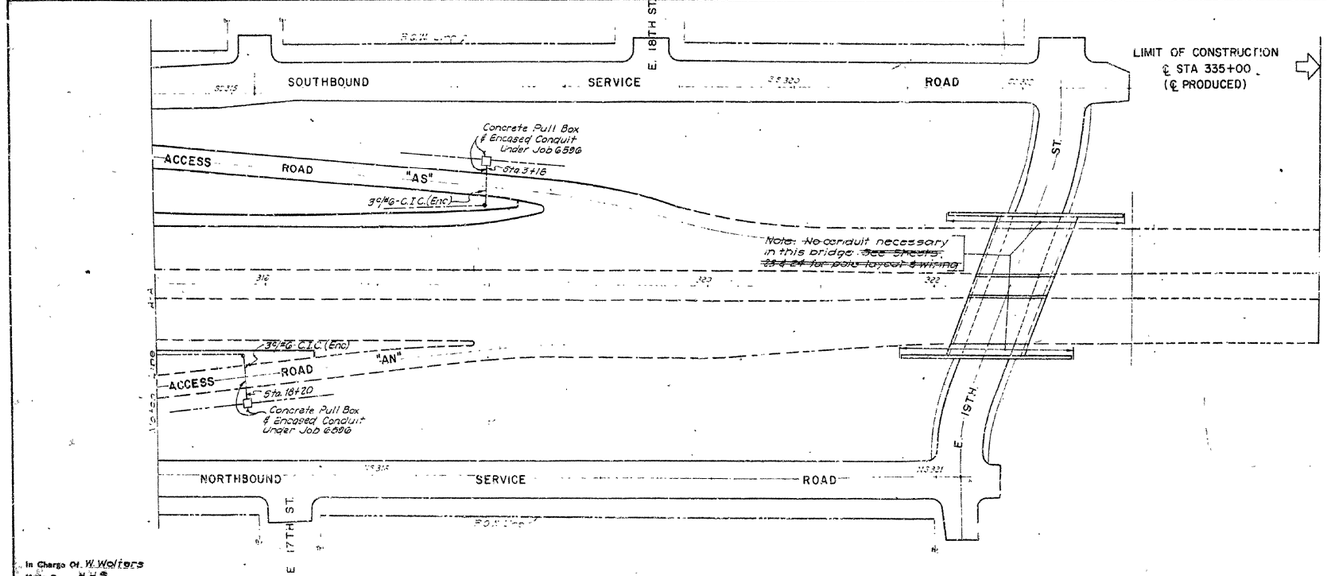
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	105	123

(1) SITE NO. 8 - FOR INFORMATION ONLY

465

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2 (29)14			
JOB NO. 6596					





Note:
Portion I only to be performed under Contract 6.
See NOTES on Sheet 119.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

LIGHTING PLAN
STA. 301+75 TO STA. 323+75

DWG NO.	SCALE	DATE	BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS
1218-9218	1"=50'	9-10-59	

In Charge Of W. Wolters
Made By N.H.S.
Traced By J.S.C.
Checked By V.M.

Revised to include Portion I work only. 1-14-60 RL.C.
Rev. Add'l 2-11-60

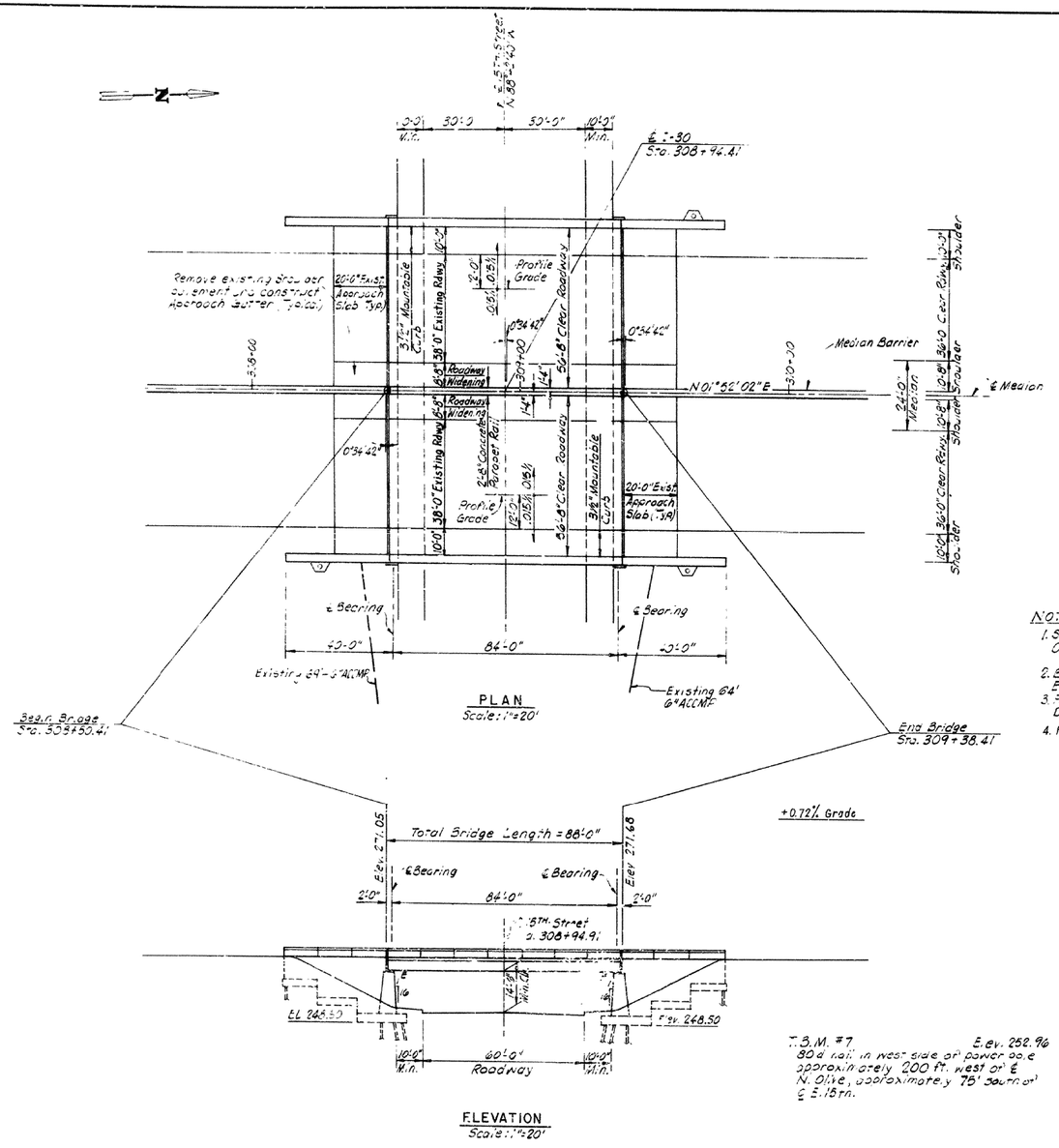
Dwg. No. 10930

FOR INFORMATION ONLY

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.		061783	106	123
				(1) SITE NO. 8 - FOR INFORMATION ONLY				

394

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-10-82				6	ARK.	IR-30-2(103)140	95	131
				JOB NO.		61022	100	136
				(1) 2768GW LAYOUT E 15TH ST			23577	



NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations
3. For Typical Approach Slab Details see Drawing No. 23590.
4. For General Notes see dwg. no. 23546.

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 thru 1978 - 1979 Interim Specifications.

Design Live Loading: H-20 and Special Interstate Loading of two 24,000 lb axles spaced at 4'-0" on centers.

Unit Stresses: New Construction

Class S Concrete	F_c = 3,500 psi
Class S.AE Concrete	F_c = 3,500 psi
Reinforcing Steel (Grade 60)	F_s = 60,000 psi
Structural Steel A-36	F_y = 36,000 psi
Structural Steel A-572 Gr.50	F_y = 50,000 psi

Method of Design: Load Factor

T.B.M. #7 E.Elev. 252.96
80d nail in west side of power pole approximately 200 ft. west of ℄ N. Olive, approximately 75' south of ℄ E. 15th.

Revised: For Widening & Median Only. 2-10-82. M.E.W. CK. GVA

LAYOUT OF
I-30 OVER E. 15th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: H.A.N. DATE: 9-79
CHECKED BY: T.B.T. DATE: 4-80
DESIGNED BY: T.B.T. DATE: 3-79
SCALE: AS NOTED

BRIDGE ENGINEER

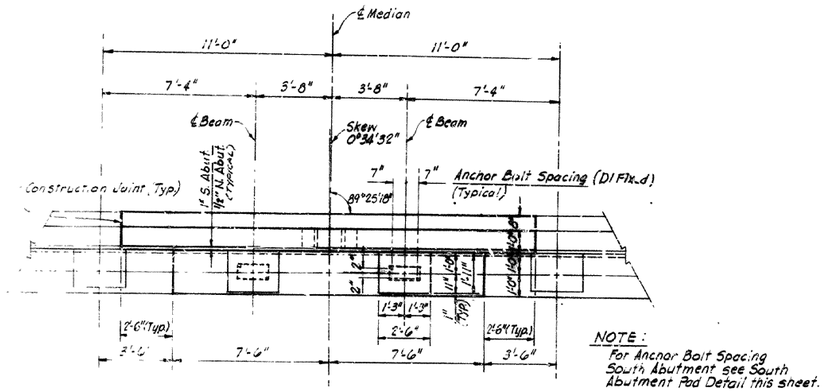
BRIDGE NO. 2768 GW DRAWING NO. 23577

FOR INFORMATION ONLY

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.		061783	107	123
				(1)	SITE NO. 8 - FOR INFORMATION ONLY			

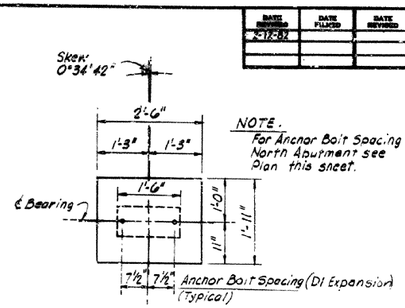
395

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-12-82				6	ARK.	I-30-2(112)08	96	131
				JOB NO.		60023	101	136
				(1)	2768GW DTLS ABUTMENTS		23578	



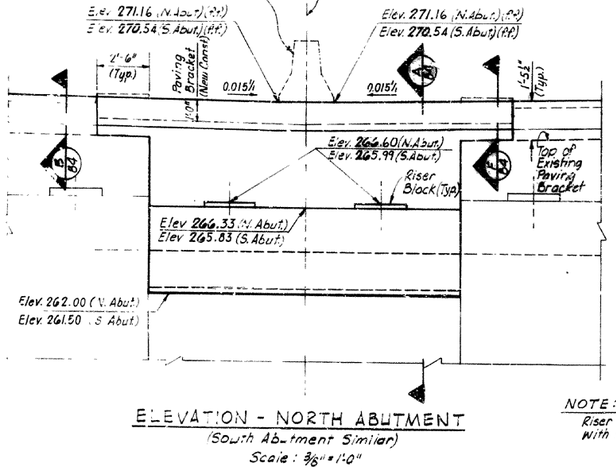
PLAN - NORTH ABUTMENT
(South Abutment Similar)
Scale : 3/8"=1'-0"

NOTE :
For Anchor Bolt Spacing South Abutment see South Abutment Pad Detail this sheet.



SOUTH ABUTMENT PAD DETAIL
Scale : 3/4"=1'-0"

NOTE :
1. For Typical Details and Sections of Abutments, see Dwg No 23584
2. For Typical Details of Joints see Drawing No. 23589.
3. For Typical Details of Shoes see Drawing No. 23586.
4. For Typical Sections see Dwg No. 23586
5. Heavy Lines Represent New Const.



ELEVATION - NORTH ABUTMENT
(South Abutment Similar)
Scale : 3/8"=1'-0"

NOTE :
Riser Blocks to be poured monolithically with Beam Seat.

Revised: For Widening & Median Only. 2-12-82. M.E.W. C.K. GVA

SHEET 1 OF 1

DETAILS OF ABUTMENTS
I-30 OVER E. 15th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 1-80
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: P.H. DATE: 1-80
SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 2768 GW DRAWING NO. 23578

FOR INFORMATION ONLY

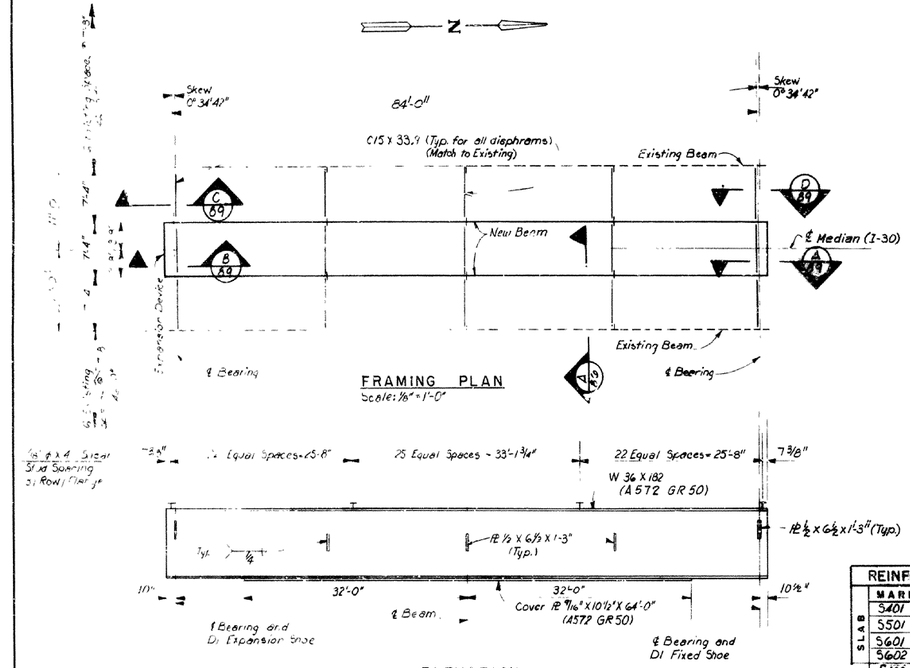
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	108	123

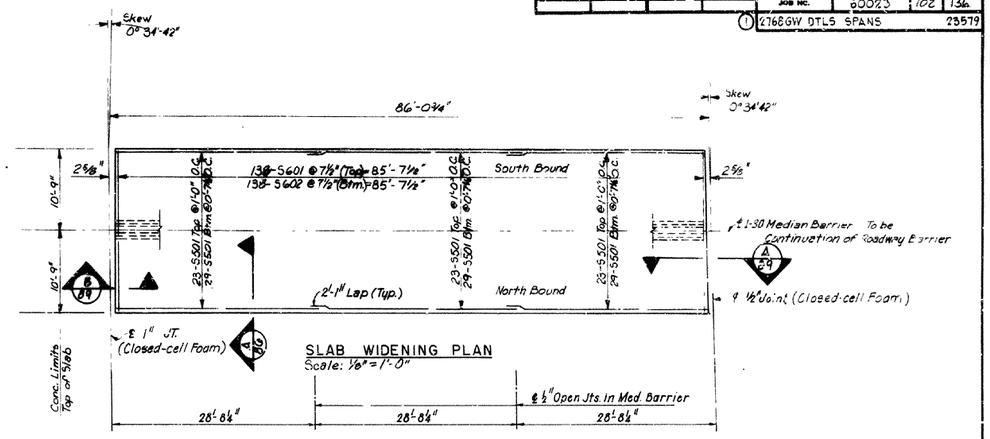
(1) SITE NO. 8 - FOR INFORMATION ONLY

396

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-17-82				6	ARK.	IR-30-7(123)98	97	131
				JOB NO.		80023	102	136

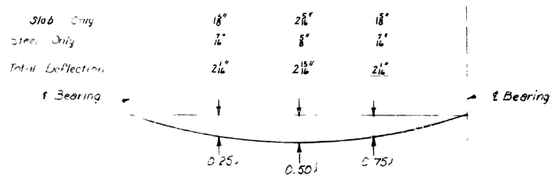
(1) 2768GW DTLS SPANS 23579





REINFORCEMENT SCHEDULE				
	MARK	NO.	LENGTH	PIN DIA.
SLAB	S401	172	4'-0"	2"
	S501	156	29'-11"	Str.
	S601	138	21'-4"	Str.
	S602	138	20'-10"	Str.
	S402	24	28'-4"	Str.

For S401 bending diagram see dwg. no. 23586.



DEAD LOAD DEFLECTION DIAGRAM
Scale: None

NOTES:

1. For Typical Section at Widening see Drawing No. 25586.
2. For Typical Joint Details, see Drawing No. 23589.
3. For Shoe Details, Modified Parapet Details and Bending Diagram, see Drawing No. 23586.

Revised: For Widening & Median Only. 2-17-82 [illegible] CK. GVA

SHEET 1 OF 1

DETAILS OF SPAN
I-30 OVER E. 15th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.R.C. DATE: 12-79
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: PL/MHA DATE: 11-79
SCALE: As Noted

BRIDGE ENGINEER

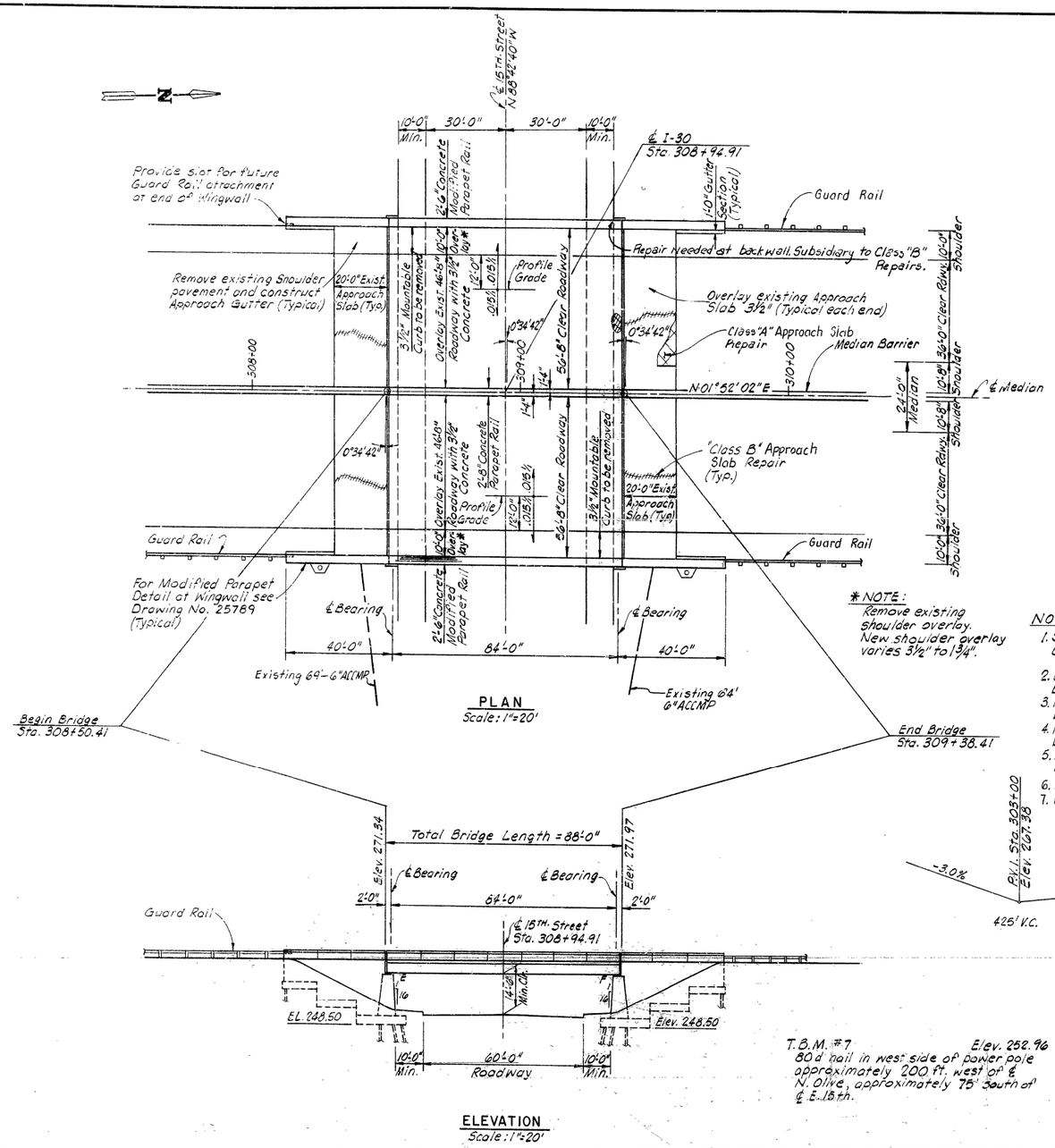
BRIDGE NO. 2768 GW DRAWING NO. 23579

FOR INFORMATION ONLY

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.		061783	109	123
				(1) SITE NO. 8 - FOR INFORMATION ONLY				

339

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(124)181		
				JOB NO.		60255	86	127
				(1) 2768 GW _ LAYOUT _ 25820				



*NOTE:
Remove existing shoulder overlay. New shoulder overlay varies 3½" to 1¾".

Legend:
- Class "A" Floor Repair (see dwg. no. 25828)

NOTES:
1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations with 3½" Concrete Overlay.
3. For Typical Approach Gutter Details, see Drawing No. 25830.
4. For Guard Rail Attachment Details, see Drawing No. 25789.
5. For Details of Bridge Floor Repairs, see Drawing No. 25828.
6. For Abutment Modification Details see Drwg. No. 25789 & 25821.
7. For Span Modification Details see Drwg. No. 25819.

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 with current Interim Specifications.

Design Live Loading: HS20 and Special Interstate Loading of two 24,000 Lb. axles spaced at 4'0" on centers.

Unit Stresses: New Construction

Class S Concrete	F'c = 3,500 p.s.i.
Class S(AE) Concrete	F'c = 3,500 p.s.i.
Reinforcing Steel (Grade 60)	Fy = 60,000 p.s.i.
Structural Steel A-36	Fy = 36,000 p.s.i.
Structural Steel A 572 (Gr. 50)	Fy = 50,000 p.s.i.

Method of Design: Load Factor

T.B.M. #7 Elev. 252.96
60d nail in west side of power pole approximately 200 ft. west of ℄ N. Olive, approximately 75' South of ℄ E. 15th.

LAYOUT OF
I-30 OVER E. 15th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE I-30 SEC. 23
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.A.N. DATE: 9-79
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: T.B.H. DATE: 9-79
SCALE: As Noted

Virgil Tinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 GW DRAWING NO. 25820

FOR INFORMATION ONLY

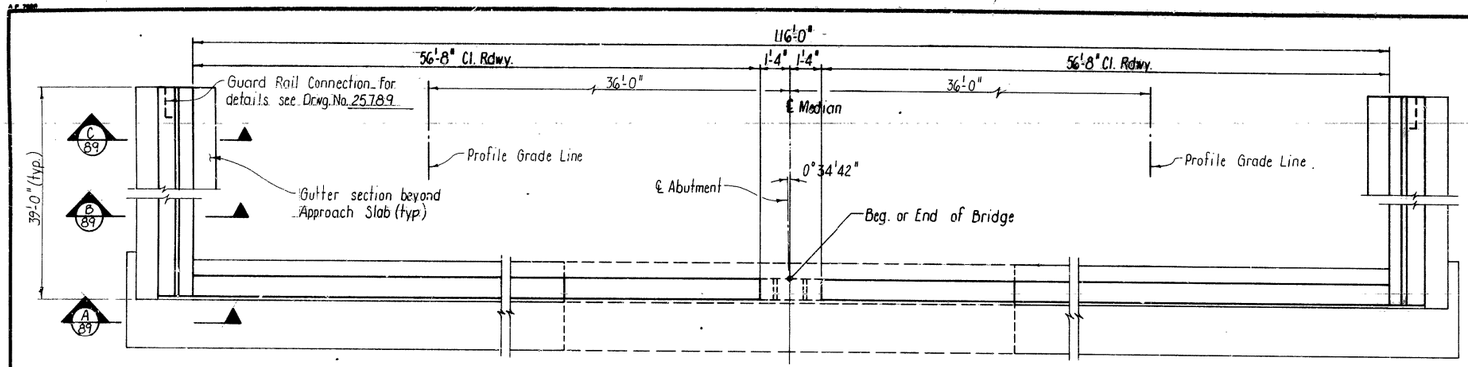
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	110	123

(1) SITE NO. 8 - FOR INFORMATION ONLY

340

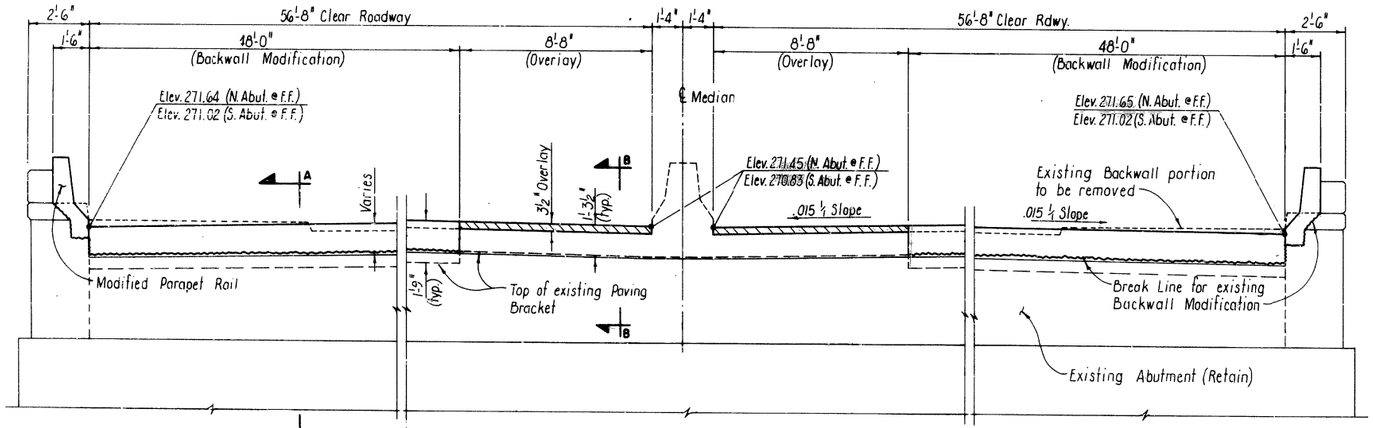
						FED. AID PROJ. NO.	
					ARK.	I-30-2(10)140	
				JOB NO.		60255	87	127

(1) 2768 GW - ABUT. - 25821

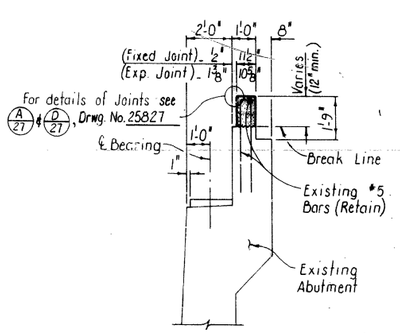


Note: F.F. = Far Face

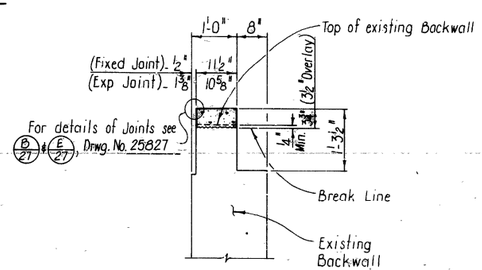
PLAN
Scale: 3/8" = 1'-0"



FRONT ELEVATION
Scale: 3/8" = 1'-0"



SECTION A-A
Scale: 3/8" = 1'-0"



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

DETAILS OF ABUTMENTS
I-30 OVER E. 15TH. STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: DATE:
SCALE: AS NOTED

Ernest Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768 GW **DRAWING NO.** 25821

FOR INFORMATION ONLY

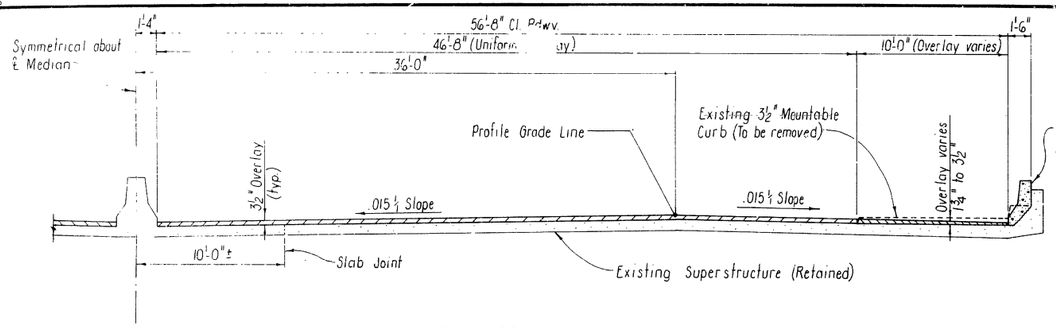
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	111	123

(1) SITE NO. 8 - FOR INFORMATION ONLY

341

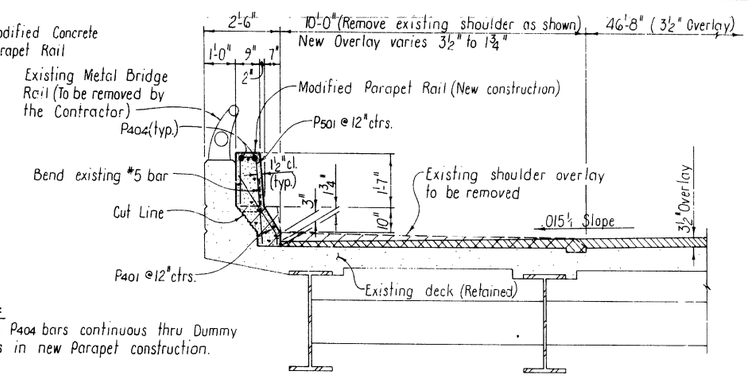
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(174)14I		
				JOB NO.		60255	88	127

(1) 2768GW - SPAN DTLS. - 25822



TYPICAL ROADWAY SECTION
No Scale

Note:
The Metal Bridge Railing shall become the property of the State.

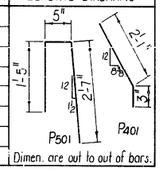


Note:
Run P404 bars continuous thru Dummy Joints in new Parapet construction.

SECTION A - A
Scale: ½"=1'-0"

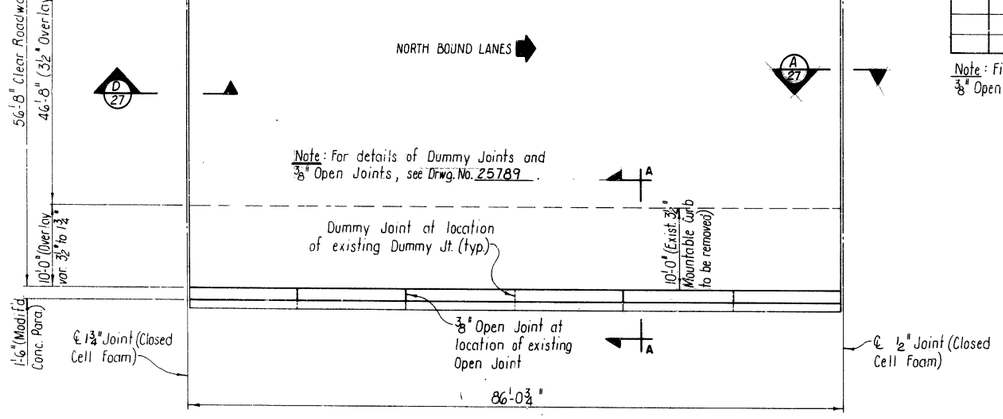
BAR LIST FOR MODIFIED PARAPET RAIL

MARK	No. REQ'D.	LENGTH	PIN DIA.	BENDING DIAGRAMS
P404	686 Lin. Ft.		Str.	
P401	174	2'-4"	2"	
P501	174	4'-3"	2½"	



Dimen. are out to out of bars.

Note: Field cut P404 bars after location of ⅜" Open Joints are verified.



PLAN
No Scale

(Northbound Lanes shown; Southbound Lanes similar)

DETAILS OF SPAN
I-30 OVER E. 15TH. STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: DATE:
SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 2768GW DRAWING NO. 25822

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

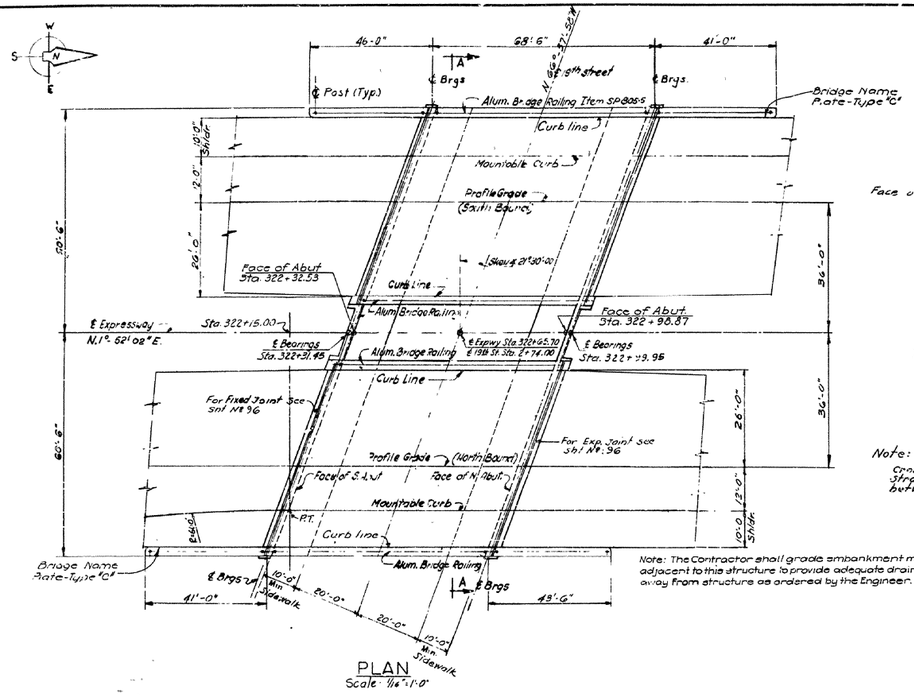
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	112	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

450

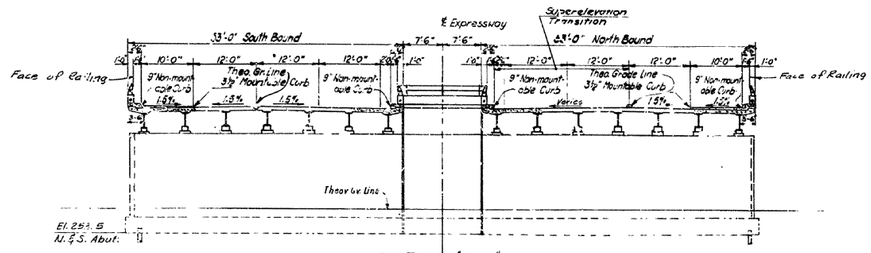
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-30-2(29)		89	144
JOB NO. 6596					

FED AID PROJ. I-30-2(29)141



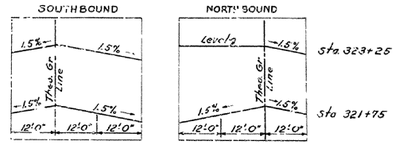
PLAN
Scale: 1/16" = 1'-0"

Note: The Contractor shall grade embankment material adjacent to this structure to provide adequate drainage away from structure as ordered by the Engineer.

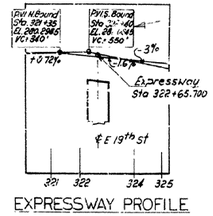


SECTION "A-A"
Scale 3/32" = 1'-0"

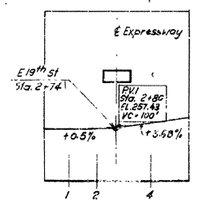
Note:
Cross Slopes vary in Straight line Proportion between Stations Shown



TRANSVERSE SECTIONS OF ROADWAY IN SUPERELEVATION TRANSITION BETWEEN STA. 321+75 AND STA. 323+25
No Scale

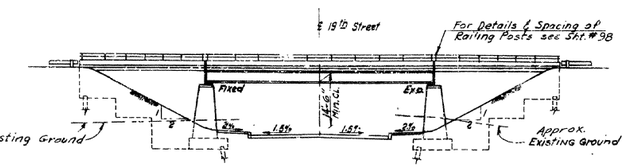


EXPRESSWAY PROFILE
Scale: Horiz. 1" = 200'
Vert. 1" = 20'



E 19th ST PROFILE
Scale: Horiz. 1" = 200'
Vert. 1" = 20'

Note: No lighting work on this sheet. See sheet #121



ELEVATION
Scale: 1/16" = 1'-0"

Note: Revised 1-5-60 to show new type Aluminum Bridge Railing. C.E.W.
Revised quantities for change to new type Aluminum Bridge Railing. L.H.T. 1-8-60.
Revised lighting work note. R.L.C. 1-18-60

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	SOUTH ABUT.	SPAN	NORTH ABUT.	TOTAL QUANTITIES
103	Dry Excavation for Structures	C.Y.	580		520	1100
SP 125-1	Special Compaction of Earthwork	C.Y.	4850		4250	9100
SP 126-2	Embankment Material (Class EM-1)	C.Y.	4850		4250	9100
SP 127-1	Bagged Screened Gravel	C.Y.	140		140	280
SP B 802	Class A Concrete for Bridges	C.Y.	617		600	1,217
SP B 802	Class S Concrete for Bridges	C.Y.	4	235	4	243
SP B 803	Reinforcing Steel	LB.	33,870	35,550	33,110	102,530
* SP 803-6	Shear Connectors	LB.	-	2500	-	2,500
SP 804-4	Bearing Piles	L.F.	4,638		4,838	9,476
SP 805-5	Aluminum Bridge Railing	L.F.	101	278	98	477
SP B 807	Structural Steel in Beam Spans	LB.	-	214,800	-	214,800
SP 860-2	Damp Proofing	S.F.	3,780	-	3,720	7,500
SP 911-2	6" Dia Bridge Underdrain	L.F.	197		197	394
929	Bridge Name Plate -- Type 'C'	EA.	1		1	2

* Quantities shown for Shear Connectors are based on Spiral Bar Shear Connectors See Special Provisions

REFERENCES:
General Notes - Sheet #4
Joint Details - Sheet #96
Architectural Details Sheet #92
Railing Details - Sheet #98
Embankment Const - Sheet #100
Excavation - Sheet #101
Boring Logs - Sheet #95
Bridge Name - Plate Sheet #113

In Charge Of J. A. Walsh, Jr.
Made By E. Shirakov
Traced By L.C.
Checked By A.T.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 19TH ST.
NORTH LITTLE ROCK
STRUCTURE NO 30
GENERAL PLAN & SECTIONS

Revised	6-15-59	DRG. NO. 121-E 6023	SCALE As Shown	DATE 2-15-58	BROWN & BLAUVELT CONSULTING ENGINEERS

Brown & Blauvelt

FOR INFORMATION ONLY

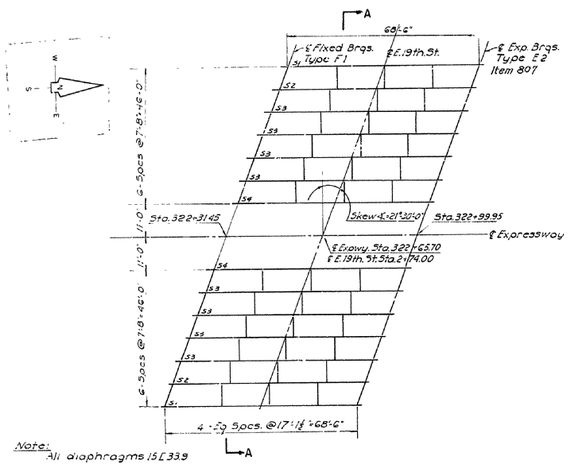
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	113	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

451

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-09F-2(29)		90	144
JOB NO. 6596					

FED. AID PROJ. I-30-2(29)1

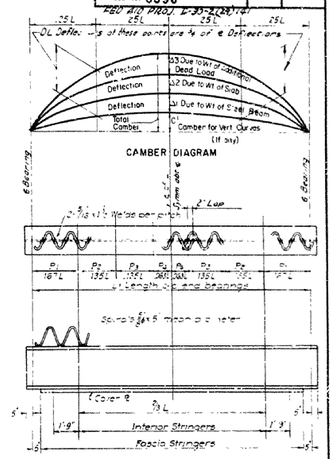


Note: All diaphragms 15 C 33.9

FRAMING PLAN
Scale: 1"=20'-0"

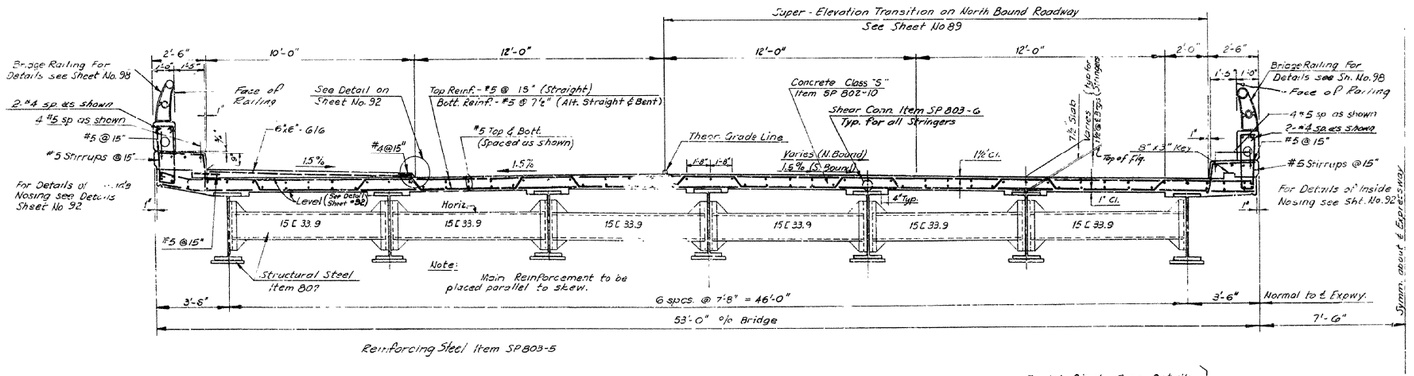
STRINGER SCHEDULE

Member	Size	Cov. PL	P_1	F_2	P_3	P_4	Δ_1	Δ_2	Δ_3	C_1	Total Camber Center
S1	36 WF150	16"x⅞"	5½"	7"	8½"	10½"	.25	.105	.030	.44	2"
S2	36 WF150	16"x⅞"	5½"	7"	8½"	10½"	.28	.105	—	.44	1⅞"
S3	36 WF150	16"x1⅛"	6½"	7"	8½"	10½"	.20	.105	—	.44	1⅜"
S4	36 WF150	16"x⅞"	7"	9"	10½"	13"	.25	.105	.030	.44	2"



PITCH OF SPIRAL SHEAR CONNECTORS & LENGTH OF COVER PLATES

DIAGRAM FOR DETAILING STRINGERS
Not to Scale



Reinforcing Steel Item SP 803-5

SECTION A-A
Scale: ⅜"=1'-0"

Note: Revised 1-6-60 to show new Type Aluminum Bridge Railing. C.E.K.

For Int. Diaph. Conn. Details
For End Diaph. Conn. Details
For Bearing Details
For Shear Connectors
} See Sheet No. 93

General Arrangement and Sections See Sheet No. 89

Note: No lighting work on this sheet See Sheet #121.

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 19th ST.
NORTH LITTLE ROCK
STRUCTURE NO. 30
FRAMING PLAN

DWG. NO.	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
121-B G024	As Noted	2-15-58	

Revised 5-15-58

In Charge Of J. A. Walsh, Jr.
Made By L. P.
Traced By L. P.
Checked By H. G.

Revised lighting work note. R.L.C. 1-18-60

Army No 10915

FOR INFORMATION ONLY

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

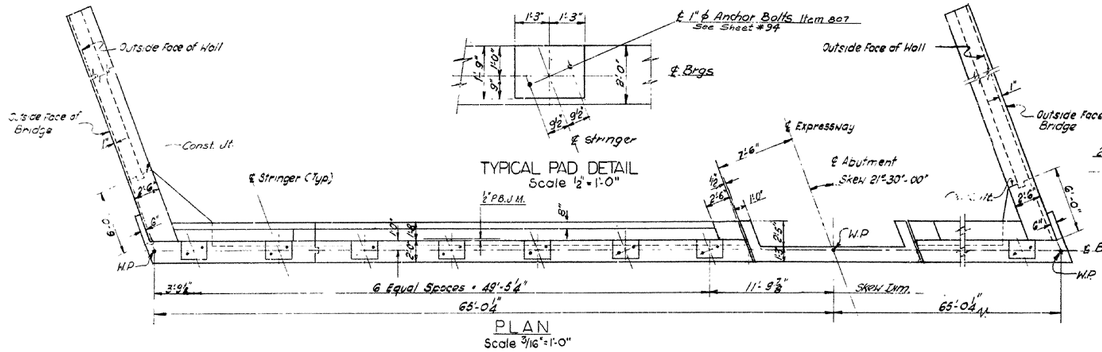
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6	ARK.			
JOB NO.		061783	114	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

452

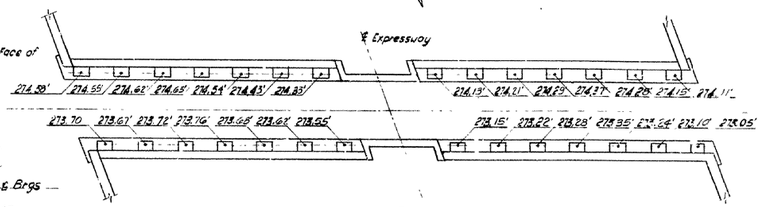
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	I-091-2(29)		91	144
JOB NO. 6596					

FED AID PROJ I-30-2(29) 14.

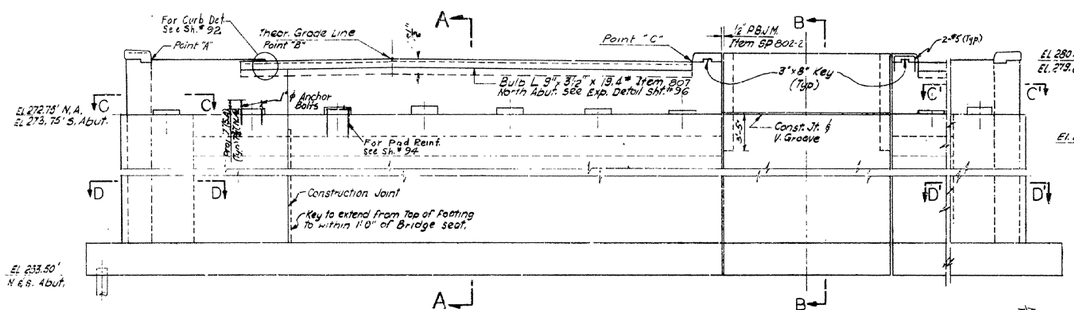


TYPICAL PAD DETAIL
Scale ½" = 1'-0"

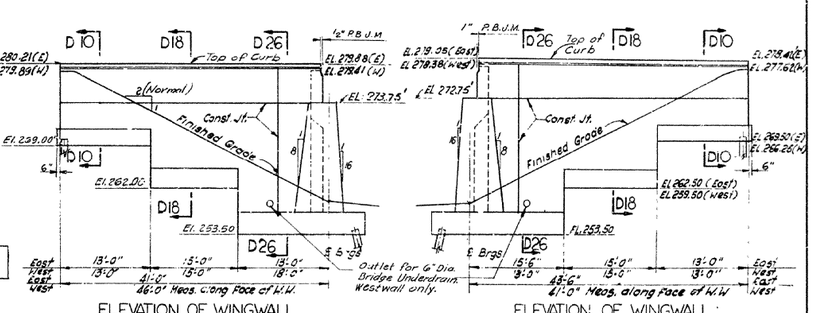
PLAN
Scale 3/16" = 1'-0"



KEY PLAN
Top of Pad Elevations
Not to scale



ELEVATION North and South Abut. as shown and noted.
Scale 3/16" = 1'-0"



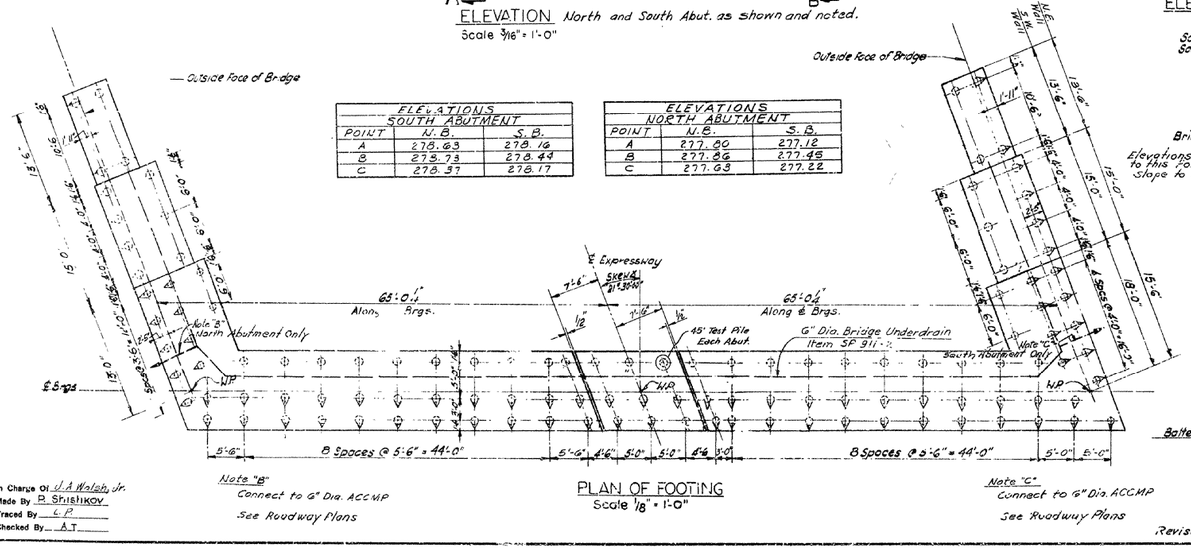
ELEVATION OF WINGWALL
Scale 1/8" = 1'-0"
South-East as shown & noted
South-West opposite hand & noted

For Architectural treatment of Walls see sht #92

ELEVATION OF WINGWALL
Scale: 1/8" = 1'-0"
North-East as shown & noted
North-West opposite hand & noted

ELEVATIONS SOUTH ABUTMENT		
POINT	N.B.	S.B.
A	278.63	278.16
B	278.73	278.44
C	278.37	278.17

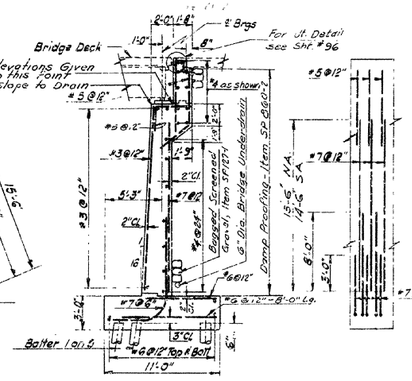
ELEVATIONS NORTH ABUTMENT		
POINT	N.B.	S.B.
A	277.60	277.12
B	277.86	277.45
C	277.63	277.22



PLAN OF FOOTING
Scale 1/8" = 1'-0"

Note "B"
Connect to 6" Dia. ACCMP
See Roadway Plans

Note "C"
Connect to 6" Dia. ACCMP
See Roadway Plans



SECTION A-A
Scale 3/16" = 1'-0"

REFERENCES:
For Sections of Wingwalls see sht # 97
For Section B-B see sht. # 94
For Sections C-C, C'-C'; D-D, D'-D' See Sheet # 94

Notes:
Estimated average length of Piles: Abutment 40'± Wingwalls 50'±
Max. Load per Pile 40 Tons
All Piles are Bearing Piles Item SP 804-4
Concrete Class "A" Item SP 802-10
All Reinforcing Steel - Item SP 805-B
For Bearing Pile Details See Sheet # 95 & # 95A

Note: No lighting work on this sheet See Sheet # 121

CONTRACT 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK - NORTH LITTLE ROCK EXPRESSWAY

EXPRESSWAY OVER E. 19TH ST.
NORTH LITTLE ROCK
STRUCTURE NO. 30
ABUTMENTS & WINGWALLS

DWG. NO	SCALE	DATE	BROWN & BLAUVELT CONSULTING ENGINEERS
121-B 6225	as shown	2-15-58	

Revised 6-15-59

In Charge of J. A. Walsh, Jr.
Made By B. Shishkov
Traced By L. P.
Checked By A. T.

Revised lighting work note. R.L.C. 1-18-60

Dwg. 116, 1091½

FOR INFORMATION ONLY

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.		061783	115	123
				①		SITE NO. 9 - FOR INFORMATION ONLY		

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED
9-3-69	9-16-69		

FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
6	ARK.	F-20-2(9)38		15	105
JOB NO.		6891		13	121
① 3332		QUANTITIES		16410	

Str. No.	Br. No	Name	Item No. 801 Common Excavation for Structures Cu. Yd.	Item No. SP § 802 Class S Concrete Cu. Yd.	Item No. 803 Boiled Linseed Oil Gal.	*SP § 803 Reinforcing Steel Lbs.	804 Precast Concrete Piling 16" Oct. Lin. Ft.	SP § 806 Structural Steel in Beam Spans (A36) L.B.	SP 806-3 Preformed Joint Sealer Lin. Ft.	SP Job 6891 Remodeling Existing Bridge Structures Compl. Item	SP Job 6891 △ Bridge Parapet (Type A) Lin. Ft.	SP Job 6891 △ Bridge Parapet (Type B) Lin. Ft.	SP Job 6891 △ Bridge Parapet (Type C) Lin. Ft.	SP Job 6891 △ Bridge Median Barrier (Type A) Lin. Ft.	SP Job 6891 △ Bridge Median Barrier (Type B) Lin. Ft.	SP Job 6891 △ Bridge Median Barrier (Type C) Lin. Ft.	SP Job 6891 Testing Dowel Capacities Compl. Item	SP Job 6891 Replacement Conduit Lin. Ft.
1	3332	"SW" Road Overpass	–	–	2.4	–	–		–	–	358.54	36.66	40.13	–	–	–	0.03	–
2	3333	"NW" Road Overpass	–	–	2.4	–	–		–	–	353.25	31.29	36.92	–	–	–	0.03	–
3	3334	"WN" Road Overpass	–	–	3.2	–	–		–	–	489.23	45.92	47.11	–	–	–	0.03	–
4	3335A	Biddle Yard Overpass	–	–	12.1	–	–		–	–	2073.08	57.71	36.37	–	–	–	0.09	–
4	3335B	Biddle Yard Overpass	–	–	12.1	–	–		–	–	2073.08	57.71	36.37	–	–	–	0.09	–
11	2768J	4th Street Overpass	–	–	3.1	–	–		–	–	294.49	–	51.00	148.00	26.17	–	0.03	346
21	2768	Ark. River Bridge	–	–	71.5	–	–		–	0.52	6149.60△	45.33	35.54	–	–	3043.40	0.52	2636
22	2768K	Wash Street Overpass	–	–	3.0	–	–		–	–	267.63	–	57.92	148.00	24.17	–	0.03	326
30	2768H	19th Street Overpass	100	181.10	3.2	21310	1050	26930	50.9	0.68	–	–	–	–	–	–	0.15	–
TOTALS JOB NO. 6891			100	△181.10	113.0	△21310	1050	26930	50.9	1.00	12064.90△	278.62	341.36	296.00	50.34	3043.40	1.00	3308

* See SP Job 6891 "Installing Stressed Dowels"
‡ See SP Job 6891 "Welding Anchor Ties"
△ Includes 112.50 Linear Feet of Special Parapet on Ramps. See Drawing Nos. 16435 & 16436, which must be cast in place.

△ Revision: Quant., of class S concrete, Reinforcing Steel and Precast or Cast in Place Parapet (Type A) to represent 112.50 Lin. Ft. of Special Parapet on Ramps. RHS 9-3-69

+ Revision: Added item of "Replacement Conduit" Rec. 7-28-69 "T.H." 7-29-69

‡ Revision: Added reference to SP Job 6891 "Welding Anchor Ties." Changed description of 12" Dia. Precast Concrete Piling Rec. 7-3-69" RHS 9-3-69

△ Revision: Changed to Bridge Parapet or Bridge Median Barrier.

SCHEDULE OF QUANTITIES

SO. TERMINAL - NO. TERMINAL BR. PARAPET

PULASKI COUNTY

INT. ROUTE 30 SEC. 23

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: TJC DATE: 6-26-69
TRACED BY: DATE:
CHECKED BY: T.H.L. DATE: 6-29-69
SCALE: None

L P Cadleson
BRIDGE ENGINEER

BRIDGE NO. 3332, 3333, 3334, 3335A&B DRAWING NO. 16410

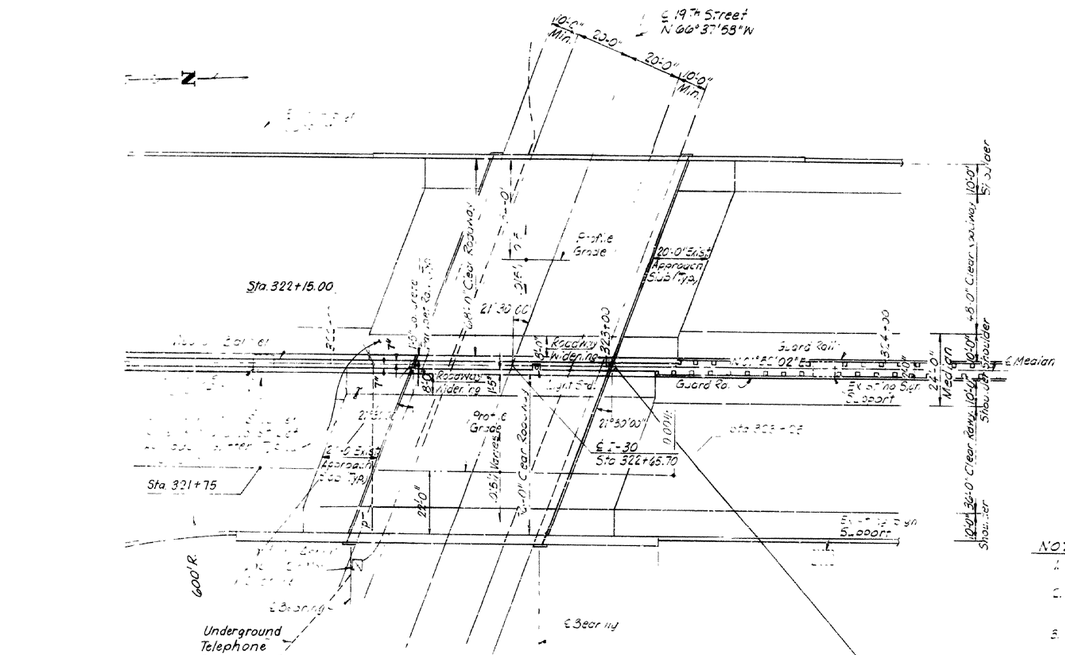
2768J, 2768, 2768K, 2768H

FOR INFORMATION ONLY

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.		061783	116	123
				(1) SITE NO. 9 - FOR INFORMATION ONLY				

397

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-2-82				6	ARK.	IR-[illegible]	78	131
				JOB NO.		[illegible]	103	136
				(1) 2768 HW [illegible]			23583	



NOTES:

1. Stations and Elevations are from original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations.
3. For Guard Rail Installation Details see Drawing No. 23584.
4. For Slope Structure Connection Details see Drawing No. 23588
5. For Approach Slab Details see Drawing No 23583.
6. For General Notes see dwg. no. 23546.

Design Stress Values: [illegible]

Steel: [illegible]

Design of Reinforcing: [illegible]

Unit Stresses: [illegible]

Class S Concrete	f'c = [illegible]
Class S.M.E. Concrete	f'c = [illegible]
Reinforcing Steel	fs = [illegible]
Structural Steel	fs = [illegible]
Structural Steel (H Piles)	fs = [illegible]

Method of Backfilling: [illegible]

Revised: For Widening & Median Only. 2-4-82. K. McMaj. CK. G.V.A.

LAYOUT OF
I-30 OVER E. 19th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: [illegible] DATE [illegible]
CHECKED BY: [illegible] DATE [illegible]
DESIGNED BY: [illegible] DATE [illegible]
SCALE [illegible]

BRIDGE ENGINEER

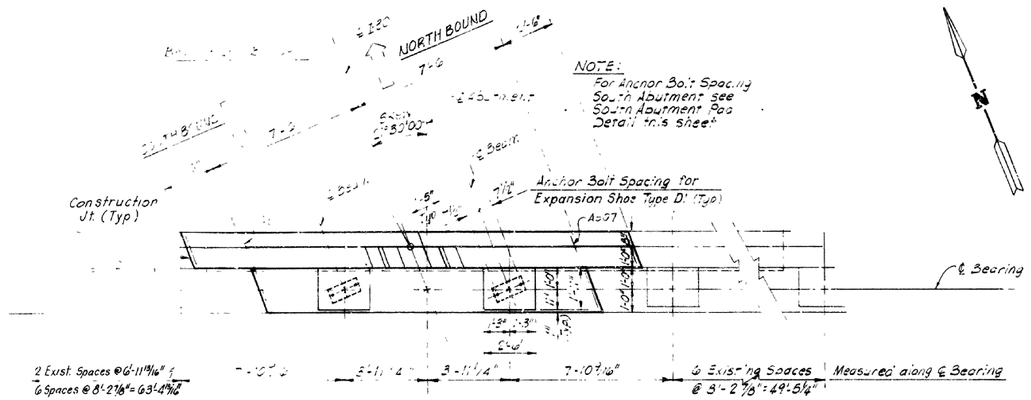
BRIDGE NO. 2768 HW DRAWING NO. 23580

FOR INFORMATION ONLY

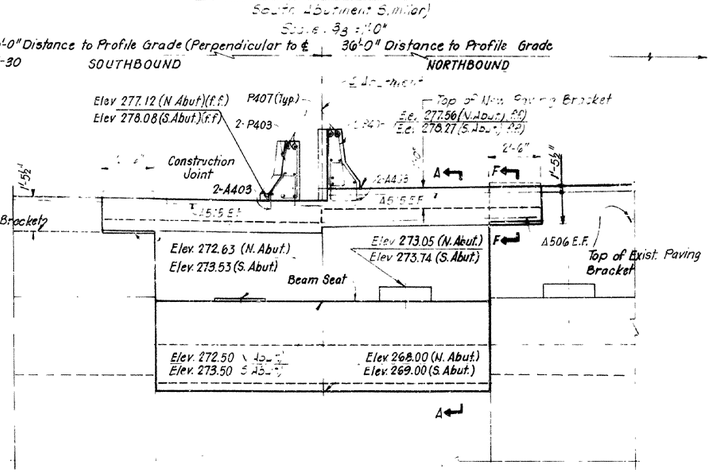
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	117	123
				(1) SITE NO. 9 - FOR INFORMATION ONLY				

398

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-4-82				6	ARK.	IR-30-2, 27140	99	131
				JOB NO.		60022	104	136
				(1) 2758HW-0-S ABUTMENTS			23581	

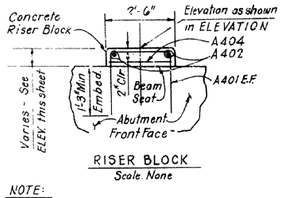


PLAN - NORTH ABUTMENT
(South Abutment Similar)
Scale: 3/8" = 1'-0"



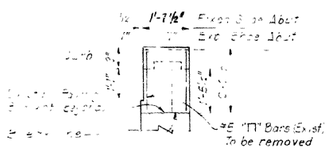
ELEVATION - NORTH ABUTMENT
(South Abutment Similar)
Scale: 3/8" = 1'-0"

NOTE:
Riser Blocks to be poured monolithically with Beam Seat.

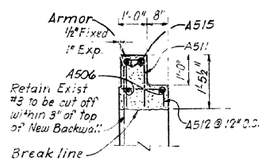


RISER BLOCK
Scale: None

NOTE:
Reinforcement required only when Riser Block is 6" or greater in height.



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

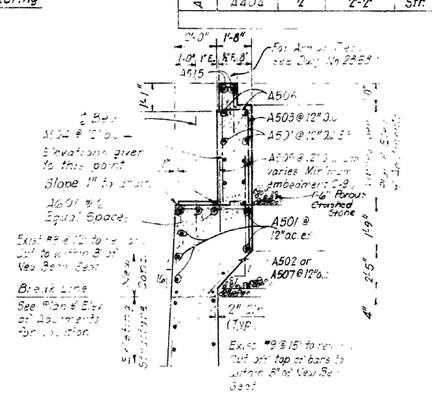


SECTION F-F
NEW
Scale: 1/2" = 1'-0"

ABUTMENT REINFORCEMENT SCHEDULE

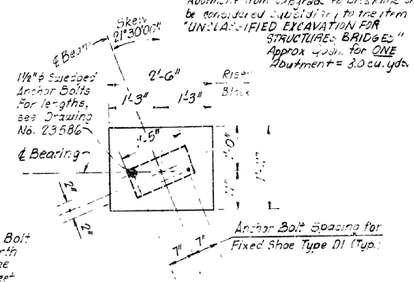
LOCATION	MARK	NO.	LENGTH	BAR DIA.
ONE ABUTMENT	A502	4	6'-1"	2"
	A503	16	15'-9"	Str.
	A505	16	9'-6"	2½"
	A503	16	6'-6"	2½"
	A504	16	9'-1"	2½"
	A505	32	4'-0"	8"
	A506	2	21'-2"	10"
	A507	2	9'-9"	2"
	A511	6	2'-11"	2½"
	A512	6	1'-6"	2½"
	A515	4	10'-5"	Str.
	A401	3	31'-2"	2"
NORTH ABUTMENT ONLY	RISER BLOCK REINFORCEMENT			
	A401	2	6'-4"	2"
	A402	2	1'-7"	Str.
	A404	2	2'-2"	Str.

LOCATION	MARK	NO.	LENGTH	BAR DIA.
ABUTMENT MEDIAN	P403	4	5'-5½"	2"
	P407	14	7"	Str.



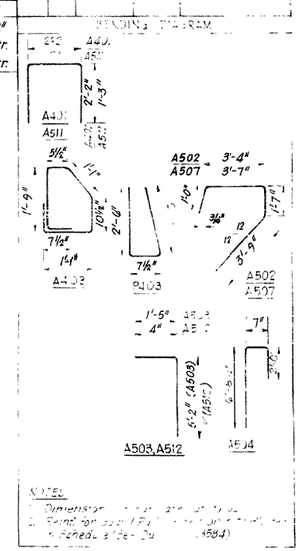
SECTION A-A AFTER WIDENING
Scale: 3/8" = 1'-0"

Note: 1½" Porous Crushed Stone Backing next Abutment from underside to Backline shall be considered subsidiary to the item "UNCLASSIFIED EXCAVATION FOR STRUCTURES: BRIDGE." Approx. 400 cu. for ONE Abutment = 3.0 cu. yds.



NOTE
For Anchor Bolt Spacing North Abutment, see Plan this sheet

SOUTH ABUTMENT PAD DETAIL
Scale: 3/4" = 1'-0"



NOTES:
1. Abutment Reinforcing is for one Abutment.
2. For Section A-A Before widening, see Drawing No. 23584.
3. For Shoe Details, see Drawing No. 23586.
4. For Reinf. Details of Median Parapete & Gutter see Drawing No. 23583.

SHEET 1 OF 1

DETAILS OF ABUTMENTS
I-30 OVER E. 19th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: WAH/GSB DATE: 2-80
CHECKED BY: T.B.H. DATE: 2-80
DESIGNED BY: M.W.A. DATE: 2-80
SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 2758 HW DRAWING NO. 23581

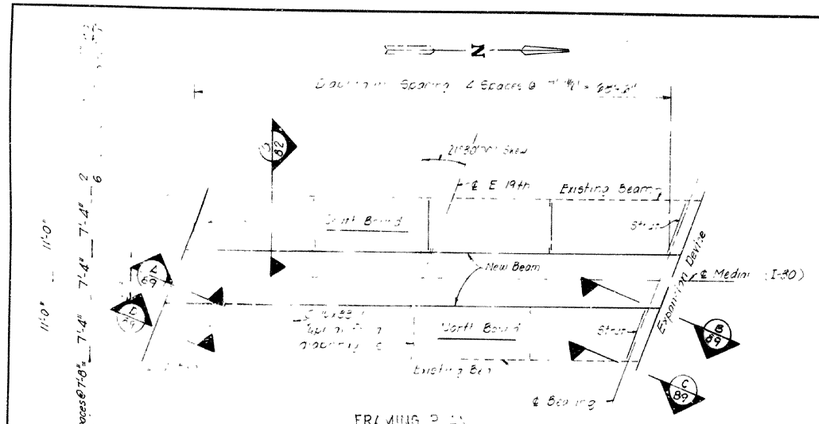
Revised: For Widening & Median Only 2-4-82 Hdlg. Ch. GVA

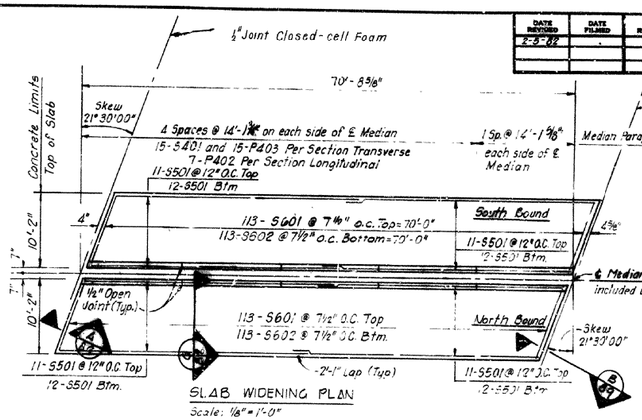
FOR INFORMATION ONLY

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.		061783	118	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

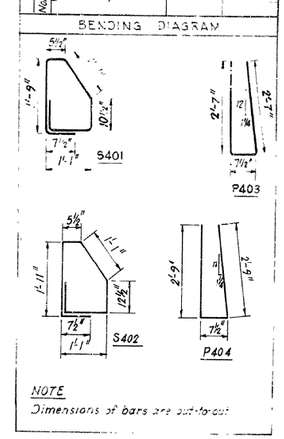
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
2-5-82				6	ARK.	IR-30-2(127)168	100	131
				JOB NO.		60023	105	136
				(1) 2768 HW DTLS SPANS			23582	



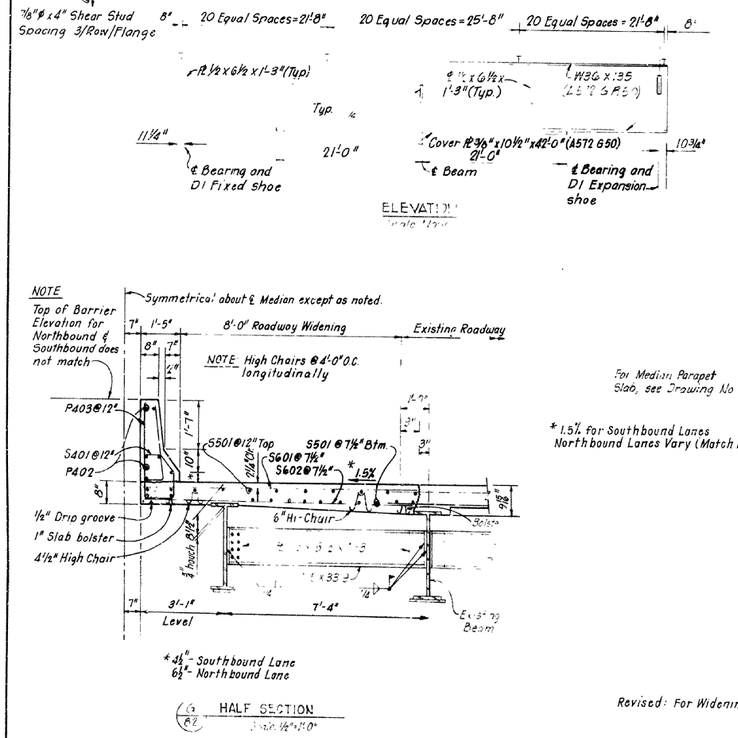


REINFORCEMENT SCHEDULE				
	MARK	NO	LENGTH	BIN DIA
SLAB	S501	40	68'-3"	Str
	S601	220	9'-11"	Str
	S602	220	9'-8"	Str
PARAPETS Southbound	S401	75	6'-1"	2"
	P402	35	13'-9"	Str
	P403	75	5'-7"	2"
PARAPETS Northbound	S402	75	6'-5"	2"
	P402	35	13'-9"	Str
	P404	75	5'-11"	2"

BENDING DIAGRAM

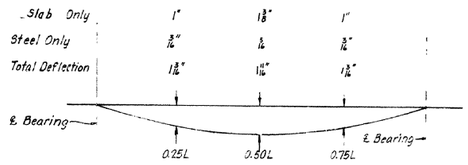


NOTE
Dimensions of bars are out-to-out



For Median Parapet Reinforcement at Approach Slab, see Drawing No 23583.

* 1.5% for Southbound Lanes
Northbound Lanes Vary (Match Existing Slope)



DEAD LOAD DEFLECTION DIAGRAM
Scale: None

NOTES:

For Shoe Details, see Dwg No. 23586.
For Typical Joint Details, see Dwg. No. 23587.

LOAD DISTRIBUTION FOR E. 19TH STREET	
Dead Load Non-Composite	Median Girder 933.1 PLF+Bm & Cv. Rt. WT.
Dead Load Composite Includes 20Lb/Ft² for Future Wearing Surface	319 PLF
Live Load To Composite Girder	1.2517 Wheels + Impact

BRIDGE ENGINEER

Revised: For Widening @ Median Only. 2-5-82 M.Hay CK. G.V.A.

SHEET 1 OF 1

DETAILS OF SPAN
I-30 OVER E. 19th STREET
BRIDGE WIDENING
PULASKI COUNTY
ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.E.H. DATE: 1-79
CHECKED BY: T.B.H. DATE:
DESIGNED BY: RC&L, M.N.A. DATE: 1-79
SCALE: AS NOTED

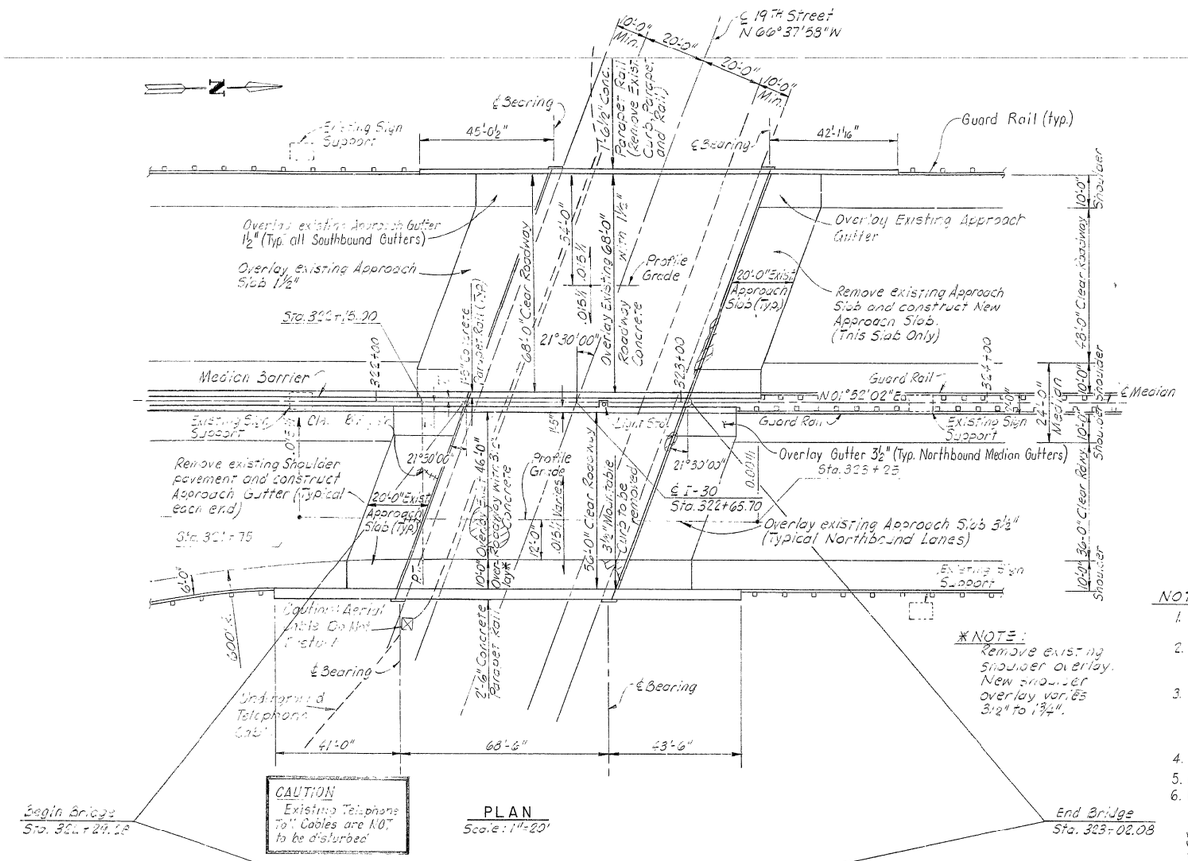
BRIDGE NO. 2768 HW DRAWING NO. 23582

FOR INFORMATION ONLY

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.		061783	119	123
				(1)	SITE NO. 9 - FOR INFORMATION ONLY			

34U

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
RESHOT	8-23-93			6	ARK.	IR-30-2(174)141		
				JOB NO.		60255	89	127
				(1)	2768HW - LAYOUT - 25823			



*NOTE: Remove existing Shoulder Overlay. New shoulder overlay varies 3/4" to 1 3/4".

LEGEND:

- Temporary Barrier
- Work During Phase
- "Class A" Bridge Floor Repair (See Drawing No. 25828.)

NOTES:

1. Stations and Elevations are from Original Bridge Plans.
2. Bridge Elevations are Profile Grade Elevations with 3½" Concrete Overlay on Northbound Lanes and 1½" Concrete Overlay on Southbound Lanes.
3. For Guard Rail Connection Details see Drawing No. 25789.
4. For Approach Slab Details see Drawing No. 25833.
5. For Abutment Modification Details see Drwg. No. 25824.
6. For Span Modification Details see Drwg. Nos. 25825 & 25826.

Design Specifications: AASHTO Standard Specifications for Highway Bridges 1977 with current Interim Specifications.

Design Live Loading: H-20 and Special Interstate Loading of Two 24,000 Lb. Axles Spaced at 4'-0" on Centers.

Unit Stresses: New Construction

Class S Concrete	f'_c = 3,500 p.s.i.
Class S (AE) Concrete	f'_{cc} = 3,500 p.s.i.
Reinforcing Steel (Bridge 60)	f_s = 24,000 p.s.i.
Structural Steel A-36	F_y = 36,000 p.s.i.
Structural Steel A-572 (Gr. 60)	F_y = 60,000 p.s.i.

Method of Design: Load Factor

LAYOUT OF

I-30 OVER E. 19th STREET

BRIDGE WIDENING

PULASKI COUNTY

ROUTE I-30 SEC. 23

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: [illegible] DATE: [illegible]

CHECKED BY: [illegible] DATE: [illegible] SCALE: As Shown

DESIGNED BY: [illegible] DATE: [illegible]

BRIDGE ENGINEER

BRIDGE NO. 2768 H.W. DRAWING NO. 25823

FOR INFORMATION ONLY

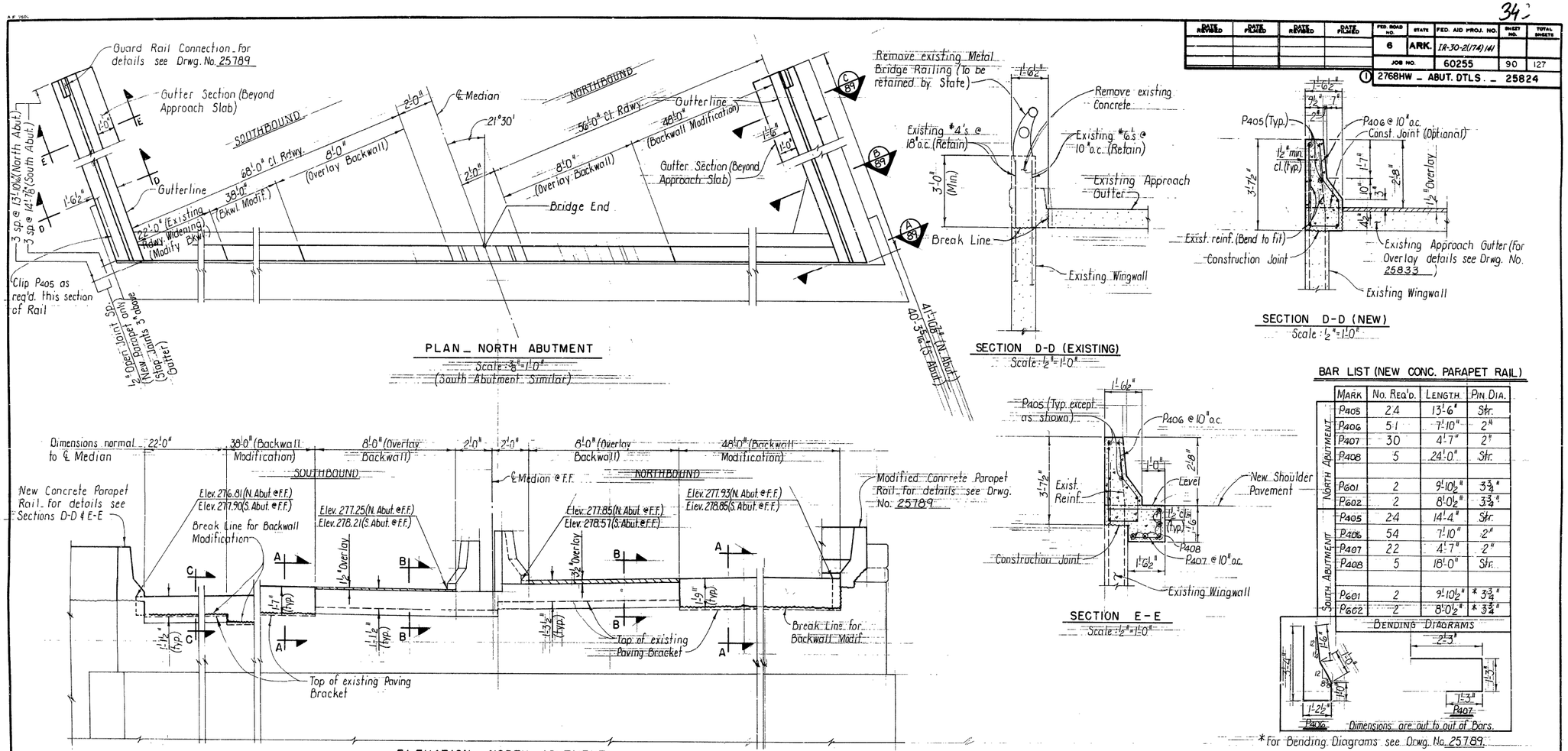
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	120	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

34

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(174)141		
				JOB NO.		60255	90	127

(1) 2768HW - ABUT. DTLS. - 25824



PLAN - NORTH ABUTMENT
Scale: 3/8" = 1'-0"
(South Abutment Similar)

SECTION D-D (EXISTING)
Scale: ½" = 1'-0"

SECTION D-D (NEW)
Scale: ½" = 1'-0"

ELEVATION - NORTH ABUTMENT
Scale: 3/8" = 1'-0"
(South Abutment Similar)

SECTION E-E
Scale: ½" = 1'-0"

TYPICAL SECTION A-A
Scale: 3/8" = 1'-0"

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

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

BAR LIST (NEW CONC. PARAPET RAIL)

	MARK	No. Req'd.	LENGTH	PIN DIA.
NORTH ABUTMENT	P405	24	13'-6"	Str.
	P406	51	7'-10"	2"
	P407	30	4'-7"	2"
	P408	5	24'-0"	Str.
	P601	2	9'-10½"	3¾"
	P602	2	8'-0½"	3¾"
SOUTH ABUTMENT	P405	24	14'-4"	Str.
	P406	54	7'-10"	2"
	P407	22	4'-7"	2"
	P408	5	18'-0"	Str.
	P601	2	9'-10½"	* 3¾"
	P602	2	8'-0½"	* 3¾"

BENDING DIAGRAMS

* For Bending Diagrams see Drwg. No. 25789.

DETAILS OF ABUTMENTS
I-30 OVER E. 19TH. STREET
PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: 2 FEB 83
CHECKED BY: C.E.S DATE: 4-12-83
DESIGNED BY: DATE:
SCALE: AS SHOWN

Wise D. Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768HW DRAWING NO. 25824

FOR INFORMATION ONLY

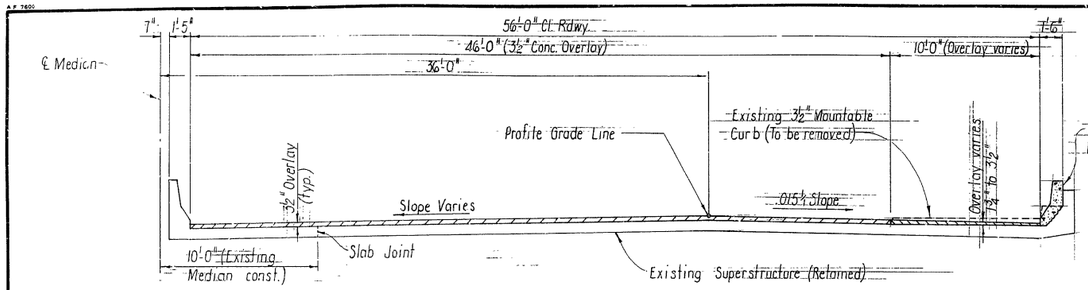
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	121	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

344

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(74) 141		
				JOB NO.		60255	91	127

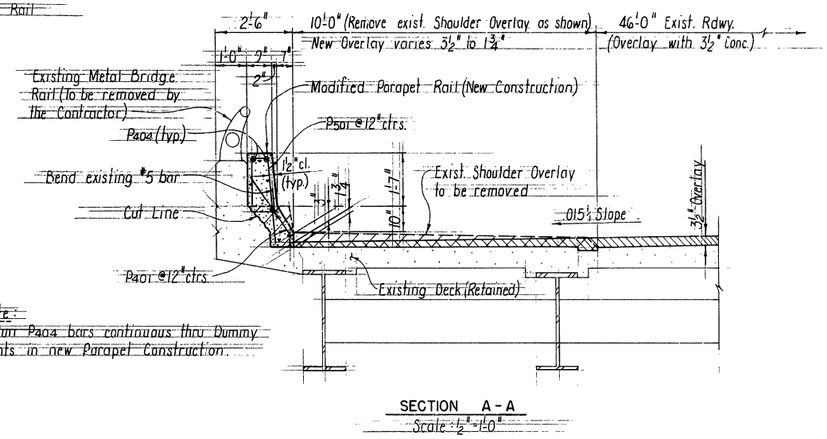
(1) 2768HW _ SPAN OTLS. _ 25825



TYPICAL ROADWAY SECTION _NORTHBOUND

No Scale

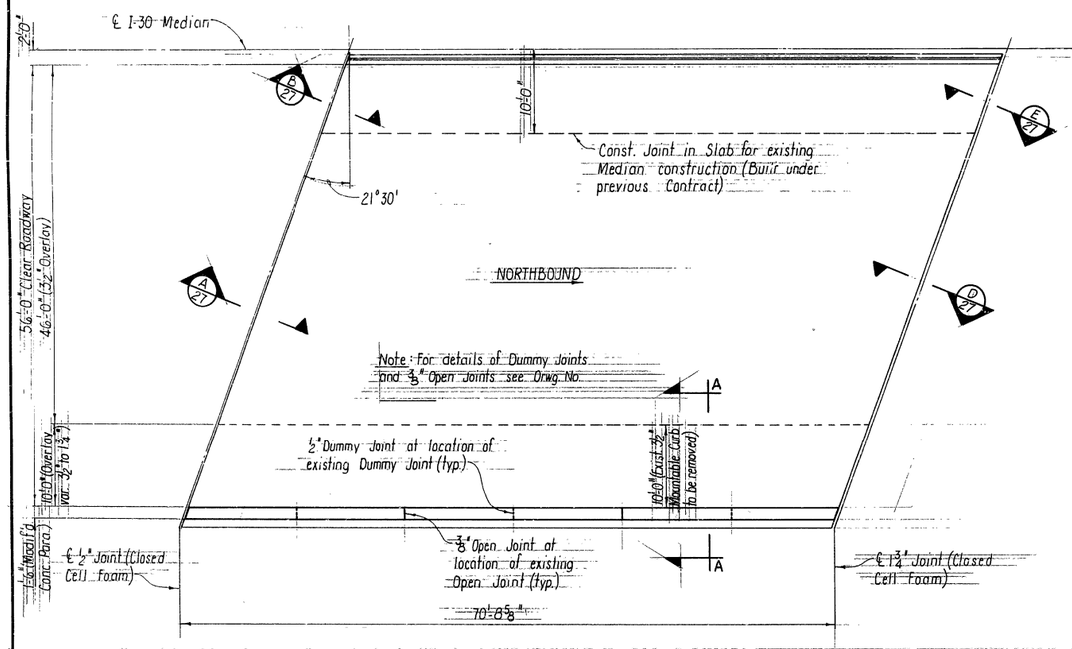
Note:
The Metal Bridge Railing shall be retained by the State.



SECTION A - A

Scale: ½" = 1'-0"

Note:
Run P404 bars continuous thru Dummy Joints in new Parapet Construction.

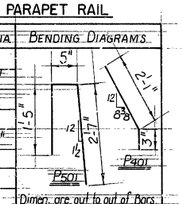


PLAN _ NORTHBOUND

No Scale

BAR LIST FOR MODIFIED PARAPET RAIL

MARK	No. REQ'D	LENGTH	PIN DIA	BENDING DIAGRAMS
P401	72	2'-4"	2"	
P404	283 Lin. ft.		Str.	
P501	72	4'-3"	2½"	



Note: Field cut P404 bars after location of ⅜" Open Joints are verified.

DETAILS OF SPAN (NORTHBOUND)
I-30 OVER E. 19TH. STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: _____ DATE: _____
SCALE: AS NOTED

BRIDGE ENGINEER

BRIDGE NO. 2768HW **DRAWING NO. 25825**

FOR INFORMATION ONLY

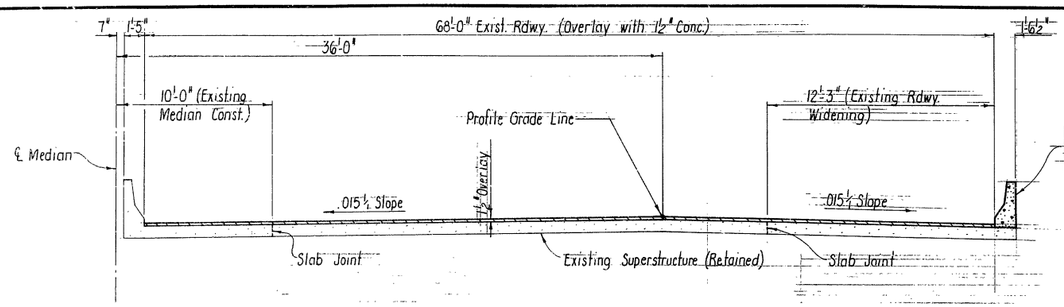
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	122	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

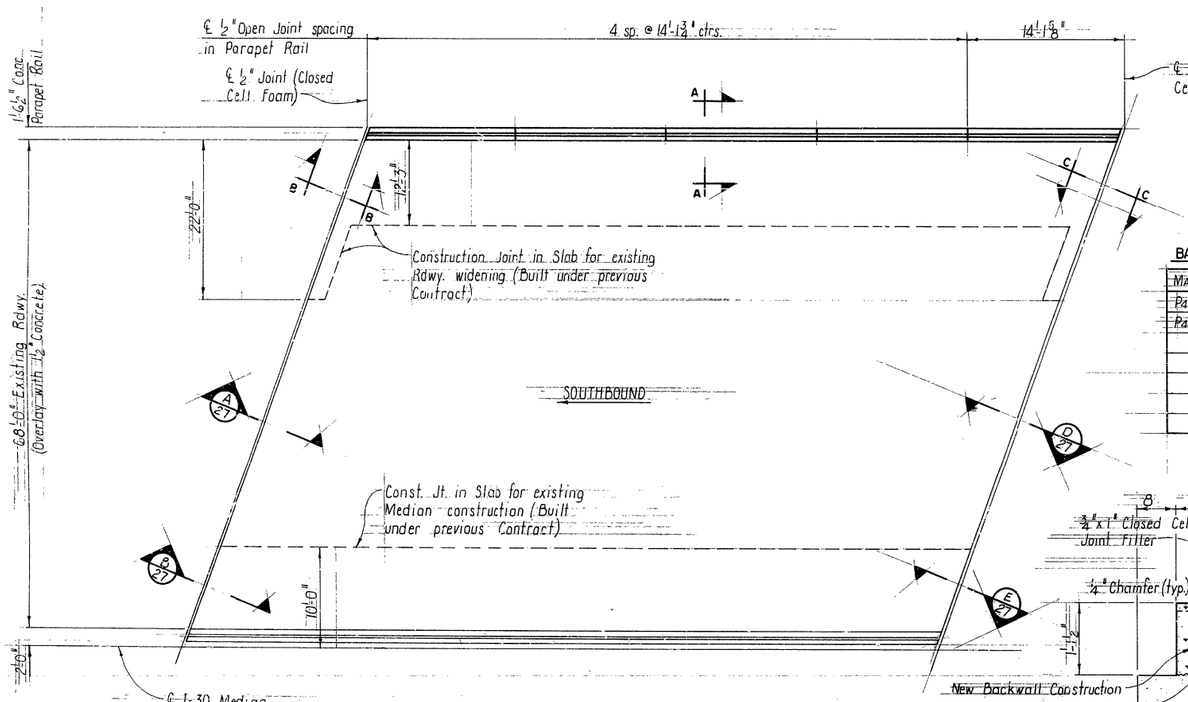
345

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(14)14		
				JOB NO.		60255	92	127

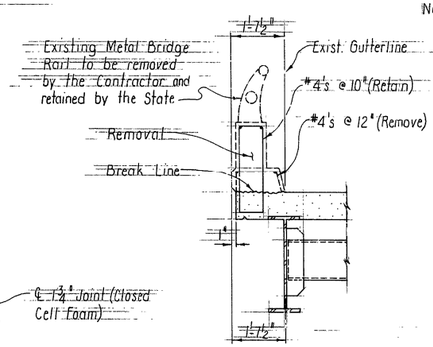
(1) 2768HW - SPAN DTLS. - 25826



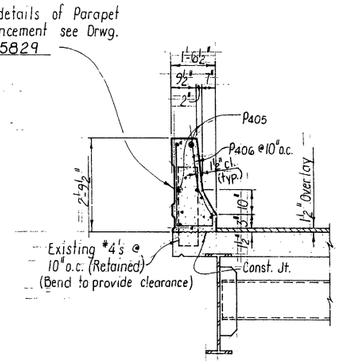
TYPICAL ROADWAY SECTION - SOUTHBOUND LANES
No Scale



PLAN - SOUTHBOUND LANES
No Scale



SECTION A-A (EXISTING)
Scale: ½"=1'-0"

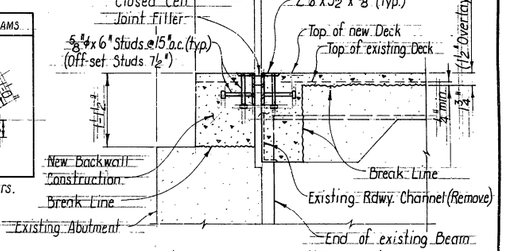


SECTION A-A (NEW)
Scale: ½"=1'-0"

BAR LIST FOR CONC. PARAPET RAIL

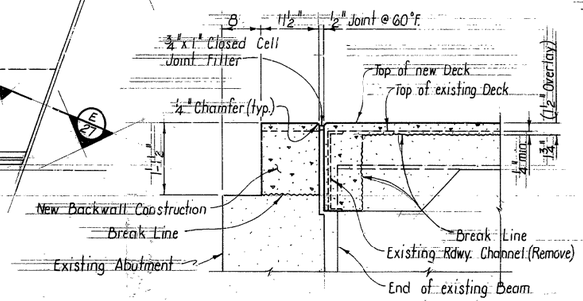
MARK	No. Req'd.	LENGTH	Pin Dia.	BENDING DIAGRAMS
P405	30	13'-9"	Str.	
P406	90	6'-4"	2"	

Note: Dimensions are out to out of Bars.



Note: Break away existing concrete as required to remove existing Roadway Channel.

(C/26) SECTION C-C - EXPANSION JOINT AT EXISTING OUTSIDE ROADWAY WIDENING
Scale: 1"=1'-0"



Note:
Break away existing concrete as required to remove existing Roadway Channel.

(B/26) SECTION B-B - FIXED JOINT AT EXISTING OUTSIDE ROADWAY WIDENING
Scale: 1"=1'-0"

DETAILS OF SPAN (SOUTHBOUND)
I-30 OVER E. 19 TH. STREET
I-30 BRIDGE REMODELINGS

PULASKI COUNTY

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: JAN 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: DATE:
SCALE: AS NOTED

Verdel Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 2768HW DRAWING NO. 25826

FOR INFORMATION ONLY

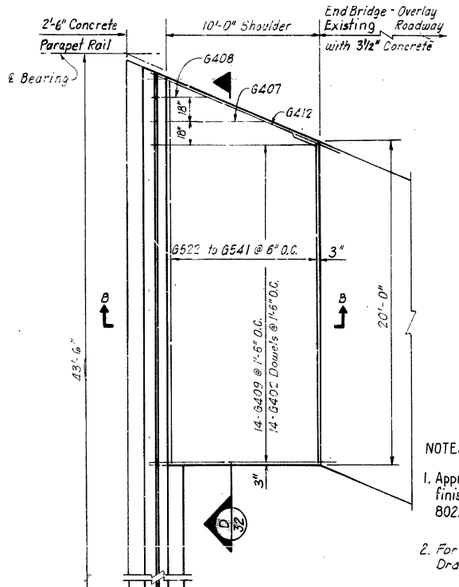
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061783	123	123

(1) SITE NO. 9 - FOR INFORMATION ONLY

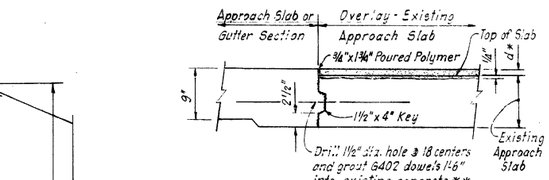
352

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	IR-30-2(17)141		
				JOB NO.		60255	99	127

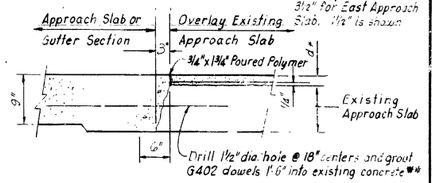
(1) 2768HW _ APPR. SLAB & GUTTER _ 25833



NORTHEAST APPROACH GUTTER
Scale: ½"=1'-0"



CONSTRUCTION JOINT AT OVERLAY AND NEW CONSTRUCTION ALT. #1
Scale: 1"=1'-0"



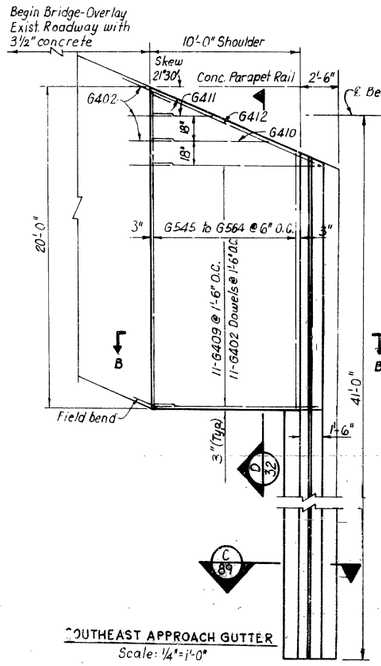
CONSTRUCTION JOINT AT OVERLAY AND NEW CONSTRUCTION ALT. #2
Scale: 1"=1'-0"

d* - dimension is 1½" for West Approach Slab & 3½" for East Approach Slab. 1½" is shown

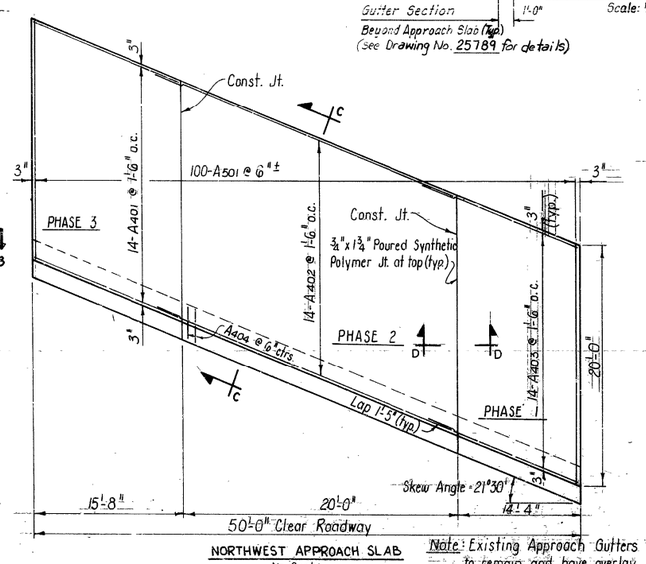
** or remove 1'-9"± of concrete

NOTES:

1. Approach Slab & Gutters shall receive a tine finish as specified for Final Finish in subsection 802.23 for Class 6, Roadway Surface Finish.
2. For Modified Parapet Reinforcing see Drawing No. 25789
3. Construction of Approach Slab and Gutter Sections shall correspond to Bridge Construction - Traffic Staging. See Drawing No. 25786.

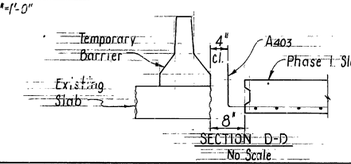


SOUTHEAST APPROACH GUTTER
Scale: ¼"=1'-0"



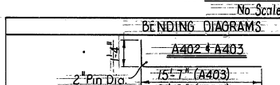
NORTHWEST APPROACH SLAB
No Scale

Note: Existing Approach Gutters to remain and have overlay applied.



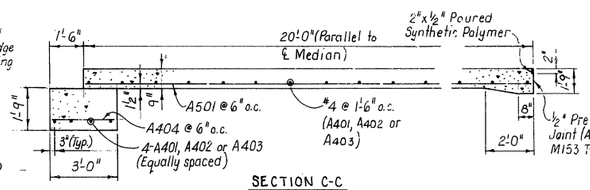
SECTION D-D
No Scale

BENDING DIAGRAMS

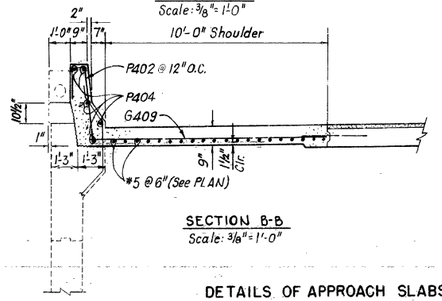


BAR LIST

LOCATION	MARK	NO.	LENGTH
NORTHWEST APPROACH SLAB	A401	18	16'-6"
	A402	18	22'-11"
	A403	18	16'-10"
	A404	100	21'-8"
	A501	100	19'-8"
NORTHEAST APPROACH GUTTER	G402	14	3'-0"
	G407	1	7'-5½"
	G408	1	3'-7½"
	G409	14	10'-11"
	G412	1	11'-8"
	G522 to G541	1 Ea.	23'-6" to 19'-9"
SOUTHEAST APPROACH GUTTER	G402	14	3'-0"
	G403	11	10'-11"
	G410	1	7'-7"
	G411	1	3'-9"
	G412	1	11'-8"
	G545 to G564	1 Ea.	19'-7" to 15'-9"



SECTION C-C
Scale: ⅜"=1'-0"



SECTION B-B
Scale: ⅜"=1'-0"

DETAILS OF APPROACH SLABS & GUTTERS
I-30 OVER E. 19th STREET
I-30 BRIDGE REMODELINGS
PULASKI COUNTY
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KMG DATE: FEB 83
CHECKED BY: CES DATE: 4-12-83
DESIGNED BY: DATE:
SCALE: As Noted

Earl Purtle
BRIDGE ENGINEER

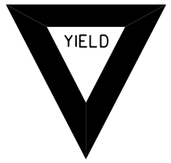
BRIDGE NO. 2768 HW DRAWING NO. 25833

FOR INFORMATION ONLY

R1-1

STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

W3-5

STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

W3-5a

STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

R4-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

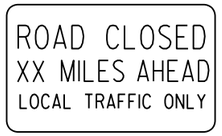
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2

48"X30"

R11-3A



60"X30"

R11-4

60"X30"

W21-5a

STD. 36"X36"
FWY. 48"X48"

W1-1

STD. 36"X36"
FWY. 48"X48"

W1-2

STD. 36"X36"
FWY. 48"X48"

W1-3

STD. 48"X48"

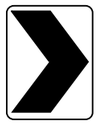
W1-4

STD. 48"X48"

W1-6

STD. 48"X24"
SPECIAL 60"X30"

W1-8



STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

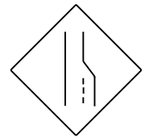
W3-1

STD. 36"X36"
SPECIAL 48"X48"

W3-2

STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1

STD. 36"X36"
SPECIAL 48"X48"

W6-3

EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7

EXPWY. 36"X36"
FWY. 48"X48"

W9-2

STD. 36"X36"
FWY. 48"X48"

W13-1

STD. 24"X24"

W20-1

STD. 48"X48"

W20-2

STD. 48"X48"

W20-3

STD. 48"X48"

W20-4

STD. 48"X48"

W20-5

STD. 48"X48"

W20-7a

STD. 36"X36"
FWY. 48"X48"

W21-2

STD. 30"X30"
SPECIAL 36"X36"

W21-5

STD. 30"X30"
SPECIAL 36"X36"

W24-1

STD. 36"X36"

W1-4b

STD. 48"X48"

R56-1

STD. 18"X18"

W8-11

STD. 36"X36"
FWY. 48"X48"

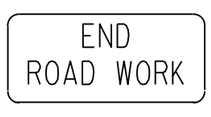
W8-9

STD. 36"X36"
FWY. 48"X48"

G20-1

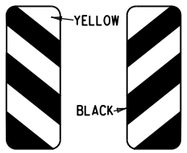
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

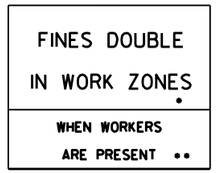
M4-9

STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10

48"X18"

R55-1



36"X60"

• USE 6" C LETTERS
•• USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ MILE
1500 FT	1 MILE AHEAD

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
- 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
- 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

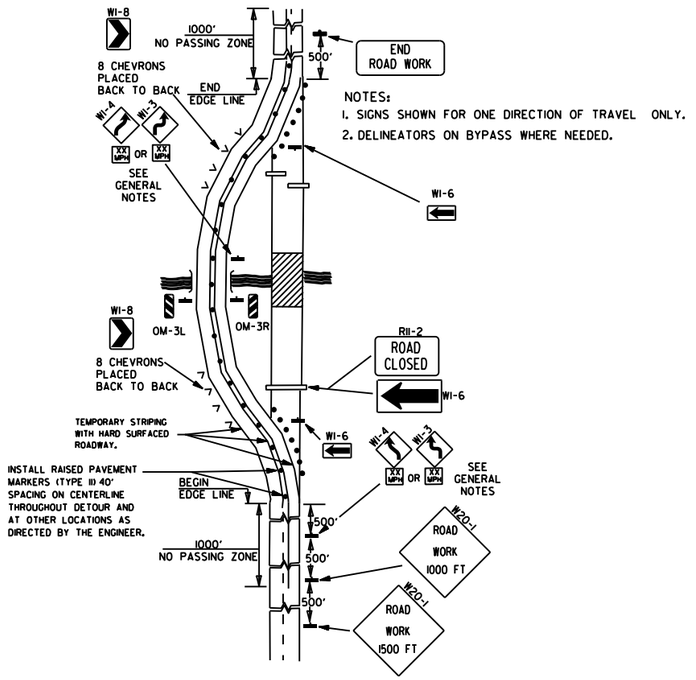
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W21-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION

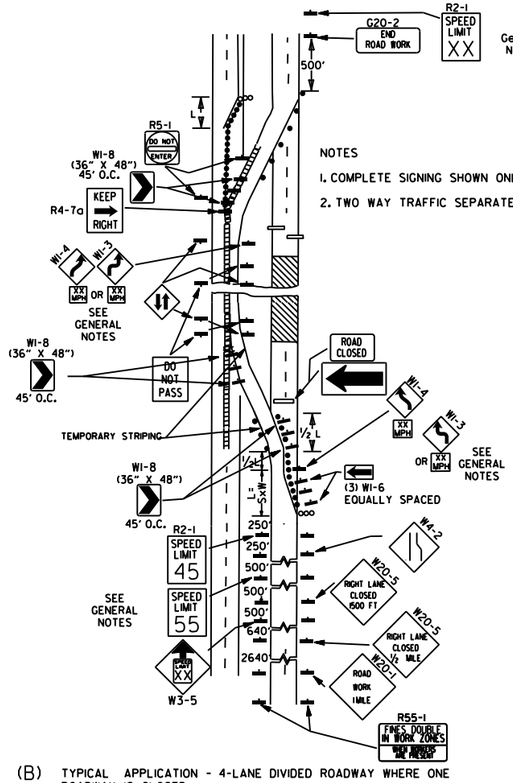
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



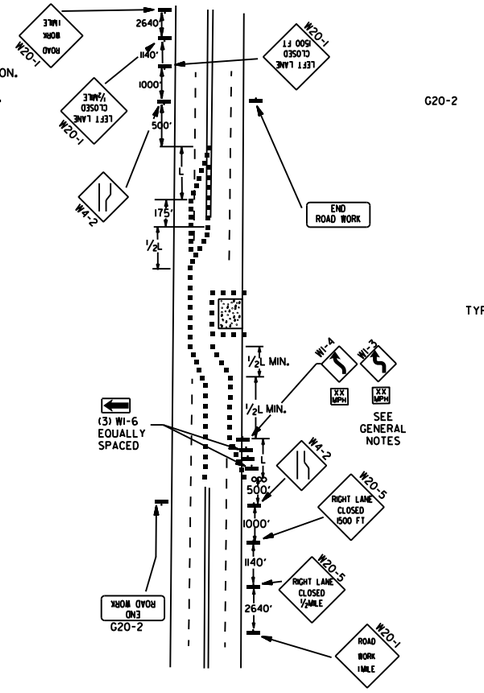
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.

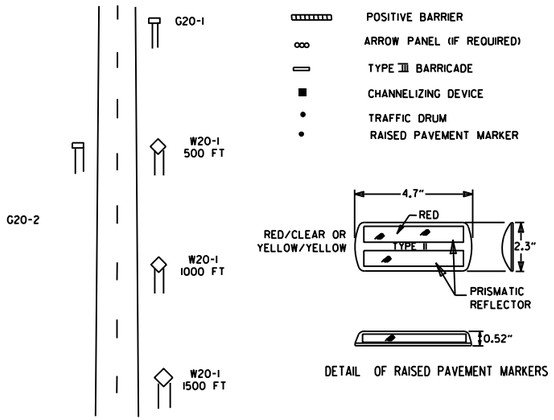


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



DETAIL OF RAISED PAVEMENT MARKERS

TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE.

$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.

WHERE:

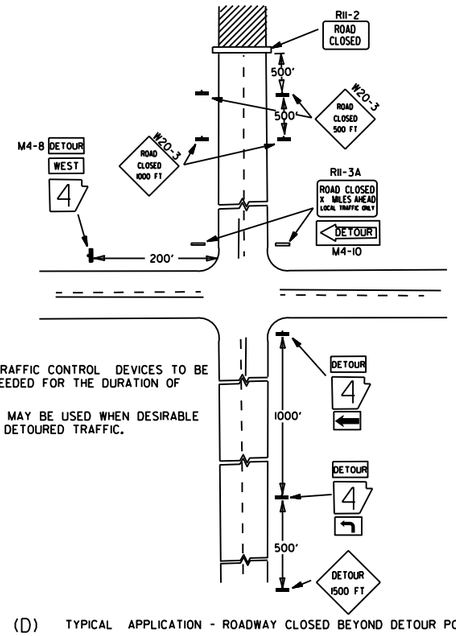
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

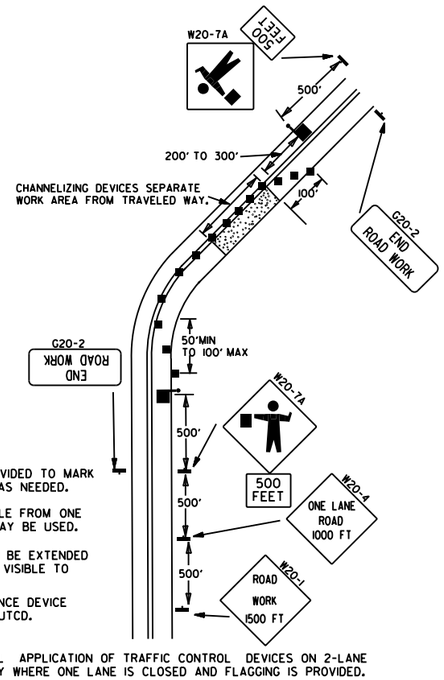
GENERAL NOTES:

1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-3 WHEN 30MPH OR LESS
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



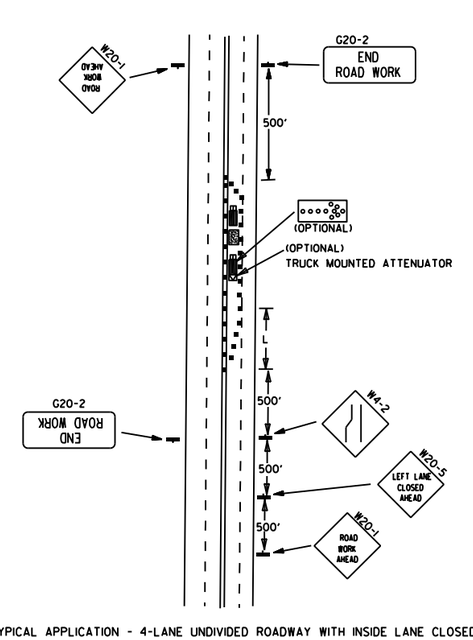
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



NOTES:
1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.



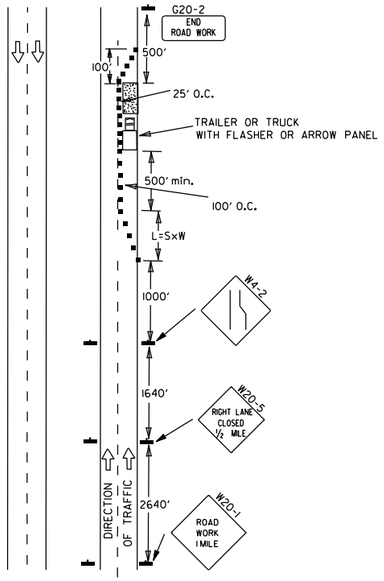
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

DATE	REVISION	FILMED
05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE 1, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

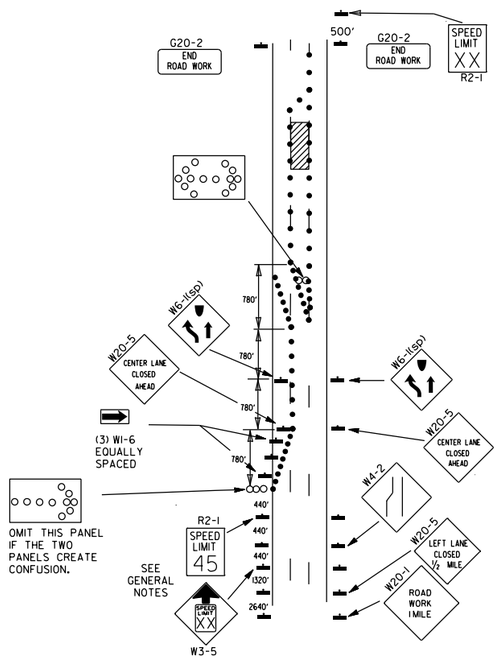
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2



(A) TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



(B) TYPICAL APPLICATION - 3-LANE ONEWAY ROADWAY WHERE CENTER LANE IS CLOSED.

KEY:

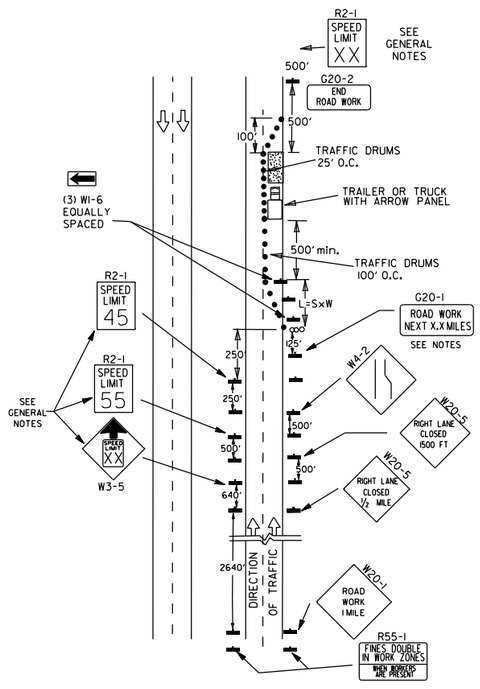
ARROW PANEL (IF REQUIRED)

■ CHANNELIZING DEVICE

● TRAFFIC DRUM

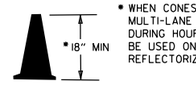
GENERAL NOTES:

1. A SPEED LIMIT REDUCTION MAY BE IMPLEMENTED ONLY WHEN DESIGNATED IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
3. WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS, AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
4. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT OR AS DIRECTED BY THE ENGINEER.
5. WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
6. PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
7. THE G20-1 SIGN WILL BE REQUIRED ON JOBS OF OVER TWO MILES IN LENGTH. WHEN THE LANE CLOSURE IS NOT AT THE BEGINNING OF THE PROJECT, THE G20-1 SIGN SHALL BE ERECTED 125' IN ADVANCE OF THE JOB LIMIT. ADDITIONAL W20-1 (1 MILE) SIGNS ARE NOT REQUIRED IN ADVANCE OF LANE CLOSURES THAT BEGIN INSIDE THE PROJECT LIMITS.
8. FLAGGERS SHALL USE STOP/SLOW PADDLES FOR CONTROLLING TRAFFIC THROUGH WORK ZONES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. ALL PLASTIC DRUMS AND CONES SHALL MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
10. TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

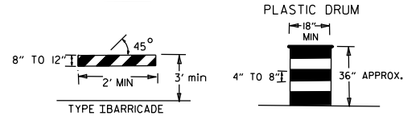
CHANNELIZING DEVICES



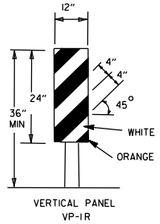
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

CONES

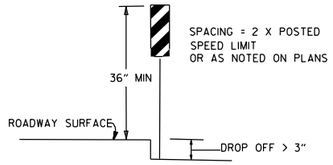
PLASTIC DRUM



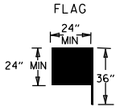
NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.



VERTICAL PANEL PLACEMENT



FLAG



FLAG SHALL BE OF GOOD GRADE RED MATERIAL

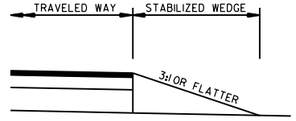
TRAFFIC CONTROL DEVICES			
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE[6]	STANDARD LANE CLOSURE[6]
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9 AND TRAFFIC DRUMS[1]	W8-9 AND TRAFFIC DRUMS[1]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]
> 6" ≤ 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 18" ≤ 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[1]	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING AND TRAFFIC DRUMS[3]
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER[4] & EDGE LINES	PRECAST CONCRETE BARRIER[4] & EDGE LINES

INTERSTATE		
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS[2]
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER & EDGE LINES

INTERSTATE AND NON-INTERSTATE		
FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

GENERAL NOTES:

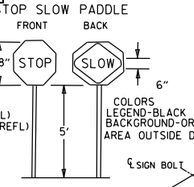
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED.
3. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS, IF AND WHERE DIRECTED BY THE ENGINEER.
4. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.
5. W21-5, W21-5a, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.
6. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).

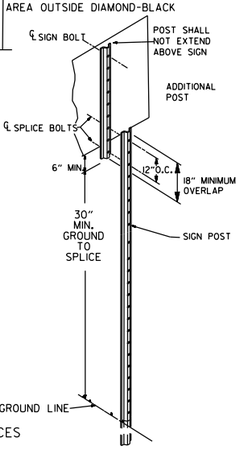


STABILIZED WEDGE

NOTE:
MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS.

STOP SLOW PADDLE

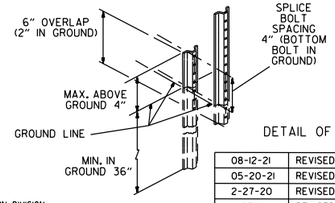




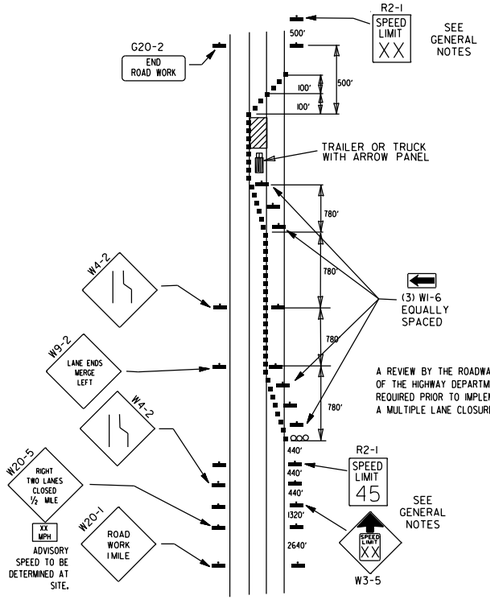
NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-21)

NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS.

SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



DETAIL OF SPLICES



A REVIEW BY THE ROADWAY DESIGN DIVISION OF THE HIGHWAY DEPARTMENT WILL BE REQUIRED PRIOR TO IMPLEMENTING A MULTIPLE LANE CLOSURE.

(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

DATE	REVISION	FILMED
08-12-21	REVISED TRAFFIC CONTROL DEVICES AND NOTES	
05-20-21	REVISED NOTE 10	
2-27-20	REVISED TRAFFIC CONTROL DEVICES DETAILS	
11-07-19	REVISED NOTE 9, ADDED NOTE 11	
7-25-19	REVISED TRAFFIC CONTROL DEVICES DETAILS	
9-2-15	REVISED NOTE 2 & REPLACED R2-5A WITH W3-5	
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1& REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-3