

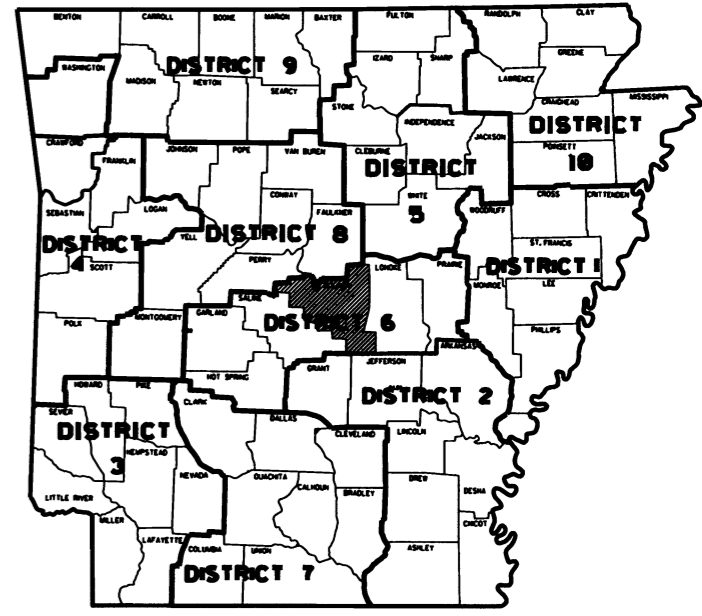
DATE REVISION	DATE FILMED	DATE REVISION	DATE FILMED	FED. AID PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061505		1	56

① I-30 - I-630 BRIDGE PAINTING (I-430) (S)

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MAINTENANCE PLANS**

I-30 - I-630 BRIDGE PAINTING (I-430) (S)

**PULASKI COUNTY
ROUTE 430 SECTION 21
FEDERAL AID PROJ. NHPP-0060(52)
JOB 061505**



ARKANSAS HIGHWAY DIST. 6



SITE LOCATIONS

VICINITY MAP

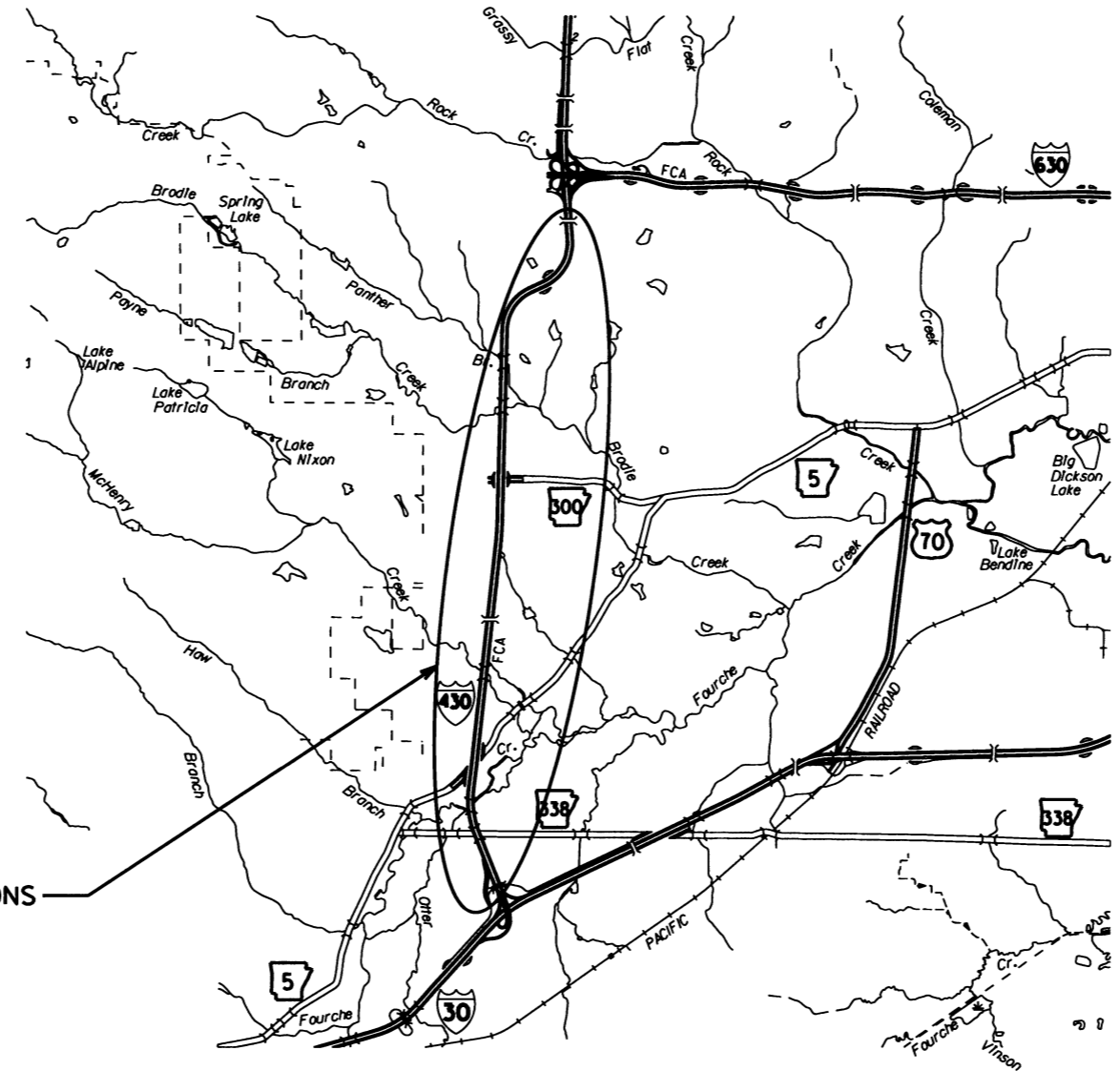


NOT TO SCALE

BRIDGE DATA:

- 1 BRIDGE NO. 05504
I-30 WB FRONTAGE
270'-0" CONT. COMPOSITE WELDED PL GIRDER UNIT
WITH 35'-6" CLEAR ROADWAY.
LAT. 34° 39' 53" LONG. 92° 24' 11"
- 2 BRIDGE NO. 05308
SH 5, SEC. 09, LM 3.28
402'-2 3/8" CONT. COMPOSITE GIRDER UNIT
WITH 63' CLEAR ROADWAY.
LAT. 34° 40' 43" LONG. 92° 24' 26"
- 3 BRIDGE NO. 05309
DAVID O. DODD ROAD
284'-4" CONT. WELDED PLATE GIRDER UNIT
WITH 31' CLEAR ROADWAY.
LAT. 34° 41' 46" LONG. 92° 24' 15"
- 4 BRIDGE NO. A5310
I-430 NB, SEC. 21, LM 3.56
205' CONT. COMPOSITE I-BEAM UNIT
WITH 51' CLEAR ROADWAY.
LAT. 34° 42' 45" LONG. 92° 24' 06"
- 5 BRIDGE NO. B5310
I-430 SB, SEC. 21, LM 3.56
205' CONT. COMPOSITE I-BEAM UNIT
WITH 51' CLEAR ROADWAY.
LAT. 34° 42' 45" LONG. 92° 24' 07"
- 6 BRIDGE NO. A5311
I-430 NB, SEC. 21, LM 4.15
249' CONT. COMPOSITE I-BEAM SPANS
WITH 51' CLEAR ROADWAY.
LAT. 34° 43' 16" LONG. 92° 24' 4"
- 7 BRIDGE NO. B5311
I-430 SB, SEC. 21, LM 4.15
249' CONT. COMPOSITE I-BEAM SPANS
WITH 51' CLEAR ROADWAY.
LAT. 34° 43' 16" LONG. 92° 24' 3"
- 8 BRIDGE NO. 05312
SHACKLEFORD ROAD
343' CONT. COMPOSITE GIRDER SPANS
WITH 44' CLEAR ROADWAY.
LAT. 34° 44' 11" LONG. 92° 23' 40"
- 9 BRIDGE NO. 05313
KANIS ROAD
314' CONT. COMPOSITE GIRDER SPANS
WITH 44' CLEAR ROADWAY.
LAT. 36° 21' 54" LONG. 94° 33' 05"

SITE LOCATIONS



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	06305		2	36
① INDEX OF SHTS. & GOVERNING SPECS.								

INDEX OF SHEETS

SHEET NO.	TITLE	DRAWING NO.	DATE
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1.	TITLE SHEET		
2.	INDEX OF SHEETS AND GOVERNING SPECIFICATIONS		
3.-9.	MAINTENANCE OF TRAFFIC		
10.	QUANTITIES AND GENERAL NOTES		
11.	SUMMARY OF QUANTITIES AND REVISIONS		
12.	SITE LOCATIONS MAP		
13.	BRIDGE PICTURES (SHEET 1 OF 2)		
14.	BRIDGE PICTURES (SHEET 2 OF 2)		
15.	LAYOUT OF BRIDGE NO. 05504 - FOR INFORMATION ONLY		
16.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05504 - FOR INFORMATION ONLY		
17.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05504 - FOR INFORMATION ONLY		
18.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05504 - FOR INFORMATION ONLY		
19.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05504 - FOR INFORMATION ONLY		
20.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05504 - FOR INFORMATION ONLY		
21.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05504 - FOR INFORMATION ONLY		
22.	LAYOUT OF BRIDGE NO. 05308 - FOR INFORMATION ONLY		
23.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05308 - FOR INFORMATION ONLY		
24.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05308 - FOR INFORMATION ONLY		
25.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05308 - FOR INFORMATION ONLY		
26.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05308 - FOR INFORMATION ONLY		
27.	LAYOUT OF BRIDGE NO. 05309 - FOR INFORMATION ONLY		
28.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05309 - FOR INFORMATION ONLY		
29.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05309 - FOR INFORMATION ONLY		
30.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05309 - FOR INFORMATION ONLY		
31.	PL. GIRDER UNIT DETAILS - BRIDGE NO. 05309 - FOR INFORMATION ONLY		
32.	LAYOUT OF BRIDGE NOS. A&B5310 - FOR INFORMATION ONLY		
33.	STEEL DETAILS - BRIDGE NOS. A&B5310 - FOR INFORMATION ONLY		
34.	STEEL DETAILS - BRIDGE NOS. A&B5310 - FOR INFORMATION ONLY		
35.	STEEL DETAILS - BRIDGE NOS. A&B5310 - FOR INFORMATION ONLY		
36.	STEEL DETAILS - BRIDGE NOS. A&B5310 - FOR INFORMATION ONLY		
37.	LAYOUT OF BRIDGE NOS. A&B5311 - FOR INFORMATION ONLY		
38.	STEEL DETAILS - BRIDGE NOS. A&B5311 - FOR INFORMATION ONLY		
39.	STEEL DETAILS - BRIDGE NOS. A&B5311 - FOR INFORMATION ONLY		
40.	STEEL DETAILS - BRIDGE NOS. A&B5311 - FOR INFORMATION ONLY		
41.	STEEL DETAILS - BRIDGE NOS. A&B5311 - FOR INFORMATION ONLY		
42.	LAYOUT OF BRIDGE NO. 05312 - FOR INFORMATION ONLY		
43.	STEEL DETAILS - BRIDGE NOS. 05312 - FOR INFORMATION ONLY		
44.	STEEL DETAILS - BRIDGE NOS. 05312 - FOR INFORMATION ONLY		
45.	STEEL DETAILS - BRIDGE NOS. 05312 - FOR INFORMATION ONLY		
46.	STEEL DETAILS - BRIDGE NOS. 05312 - FOR INFORMATION ONLY		
47.	PL GIRDER UNIT DETAILS - BRIDGE NO. 5312 - FOR INFORMATION ONLY		
48.	PL GIRDER UNIT DETAILS - BRIDGE NO. 5312 - FOR INFORMATION ONLY		
49.	LAYOUT OF BRIDGE NO. 05313 - FOR INFORMATION ONLY		
50.	STEEL DETAILS - BRIDGE NOS. 05313 - FOR INFORMATION ONLY		
51.	STEEL DETAILS - BRIDGE NOS. 05313 - FOR INFORMATION ONLY		
52.	STEEL DETAILS - BRIDGE NOS. 05313 - FOR INFORMATION ONLY		
53.	STEEL DETAILS - BRIDGE NOS. 05313 - FOR INFORMATION ONLY		
54.	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	9-2-15
55.	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	9-2-15
56.	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	9-2-15

GOVERNING SPECIFICATIONS

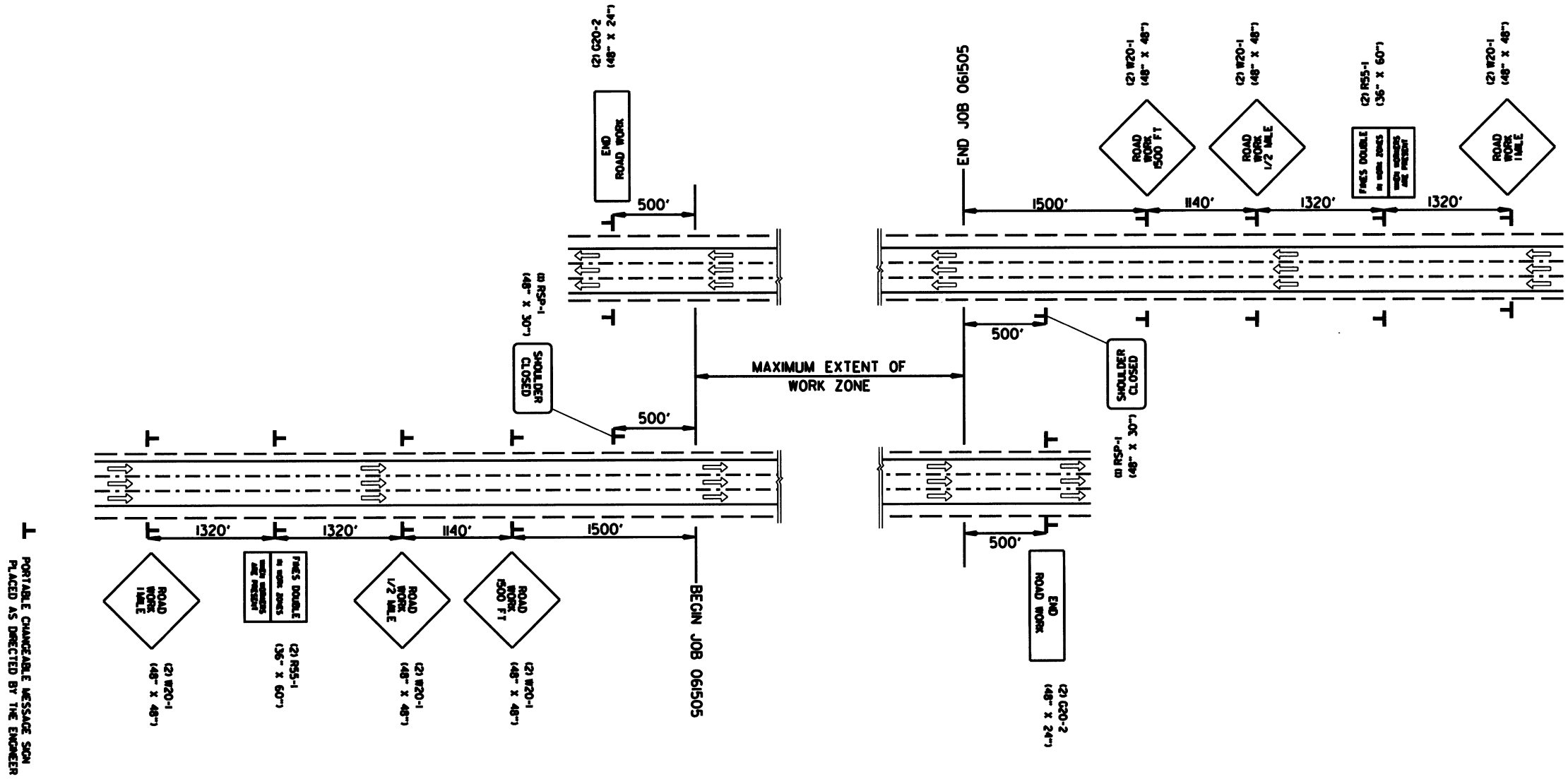
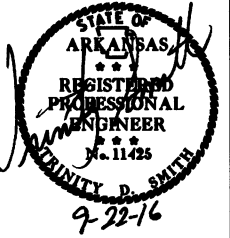
ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

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
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 061505	BIDDING REQUIREMENTS AND CONDITIONS
JOB 061505	CARGO PREFERENCE ACT REQUIREMENTS
JOB 061505	CONTAINMENT SYSTEM
JOB 061505	CONTRACTOR CERTIFICATION
JOB 061505	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 061505	INSPECTOR'S PERSONAL PROTECTION CLOTHING
JOB 061505	MANDATORY ELECTRONIC CONTRACT
JOB 061505	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 061505	NESTING SITES OF MIGRATORY BIRDS
JOB 061505	PAINT CONTRACTOR LABEL
JOB 061505	SPECIAL MAINTENANCE OF TRAFFIC REQUIREMENTS
JOB 061505	SPECIAL SAFETY REQUIREMENTS FOR BRIDGES



DATE REVISED	DATE PLACED	DATE REVISED	DATE PLACED	FEDERAL DIST. NO.	STATE	FEDERAL PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061505		3	56

② MAINTENANCE OF TRAFFIC



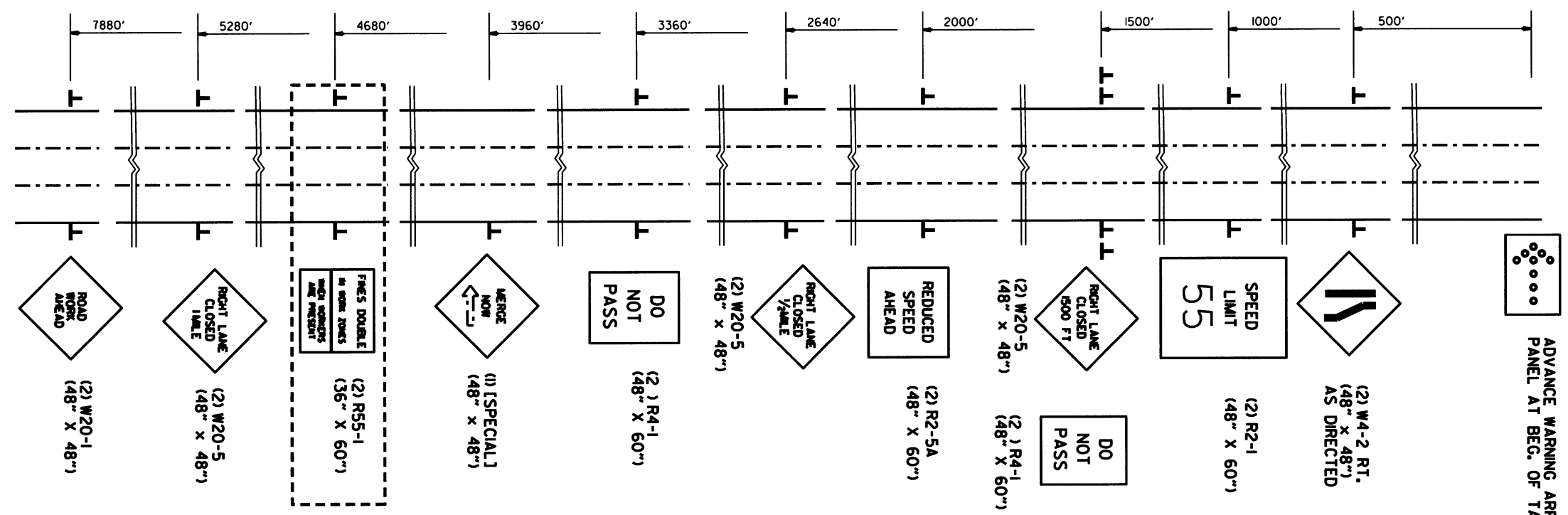
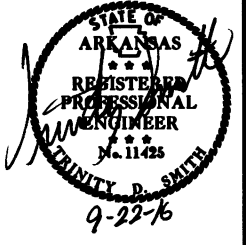
PORTABLE CHANGEABLE MESSAGE SIGN PLACED AS DIRECTED BY THE ENGINEER

PORTABLE CHANGEABLE MESSAGE SIGN PLACED AS DIRECTED BY THE ENGINEER

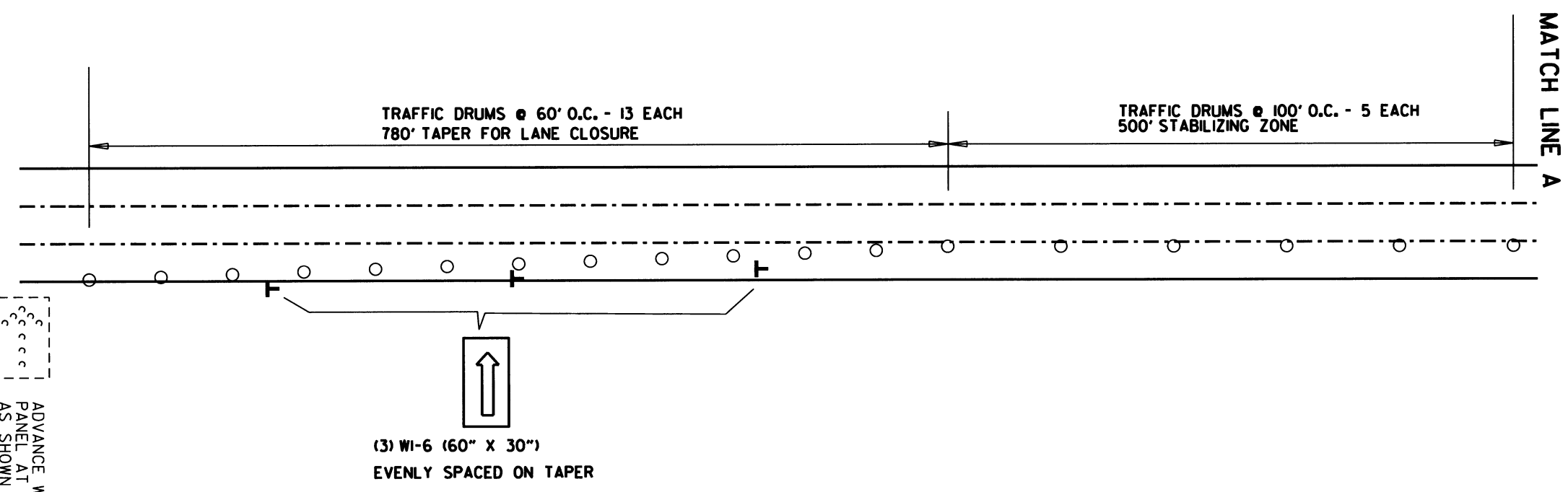
ADVANCE WARNING SIGNS AT BEGINNING AND END OF JOB ALL STAGES

DATE REVISION	DATE PLACED	DATE REVISION	DATE PLACED	FED. DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	061505		4	56

② MAINTENANCE OF TRAFFIC



NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE,
LEAVE OUT R55-1 SIGNS.

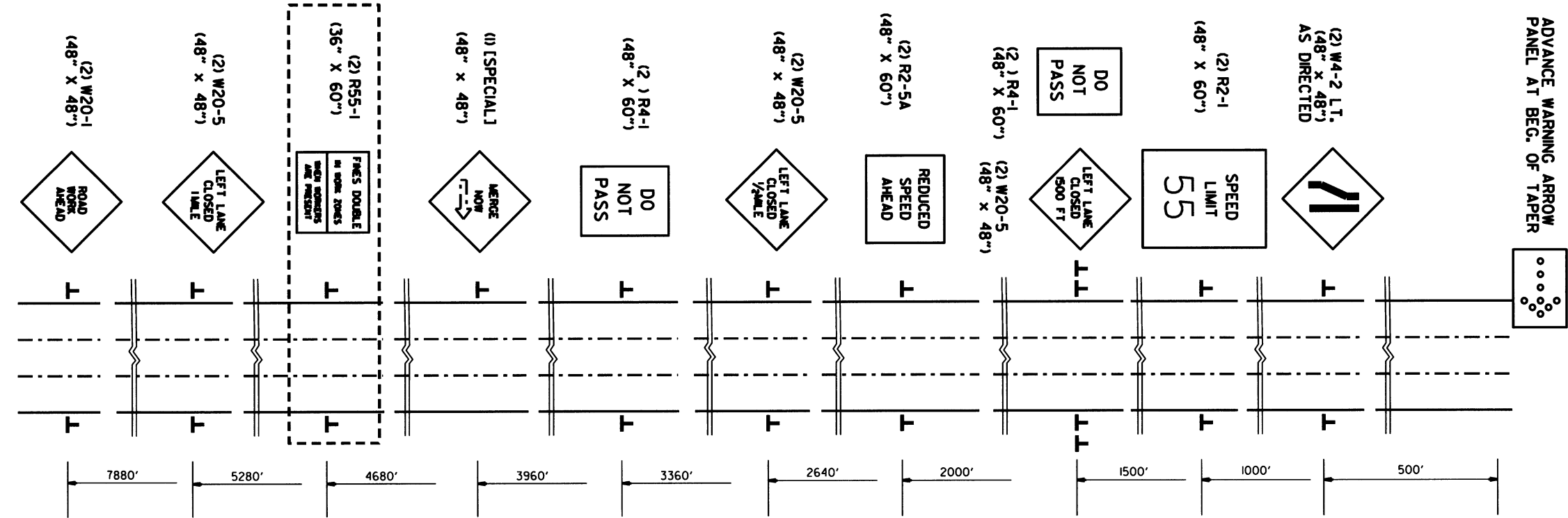
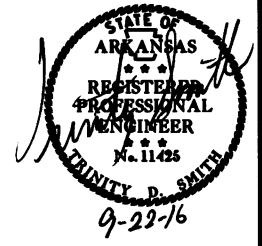


ADVANCE WARNING ARROW
PANEL AT BEG. OF TAPER
AS SHOWN ABOVE

ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM PLACEMENT
FOR OUTSIDE LANE CLOSURE

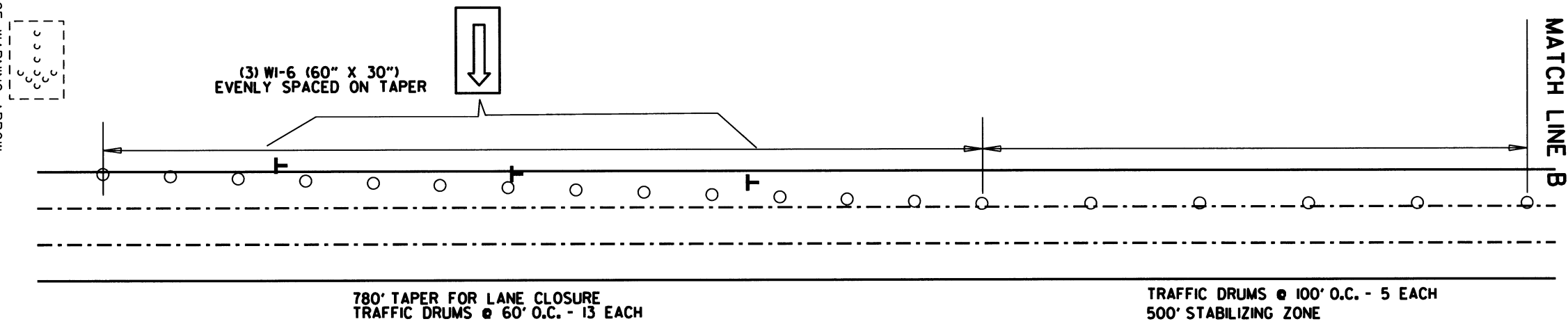
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				6	ARK.		5	56
JOB NO. 061505								

② MAINTENANCE OF TRAFFIC



NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE,
LEAVE OUT R55-1 SIGNS.

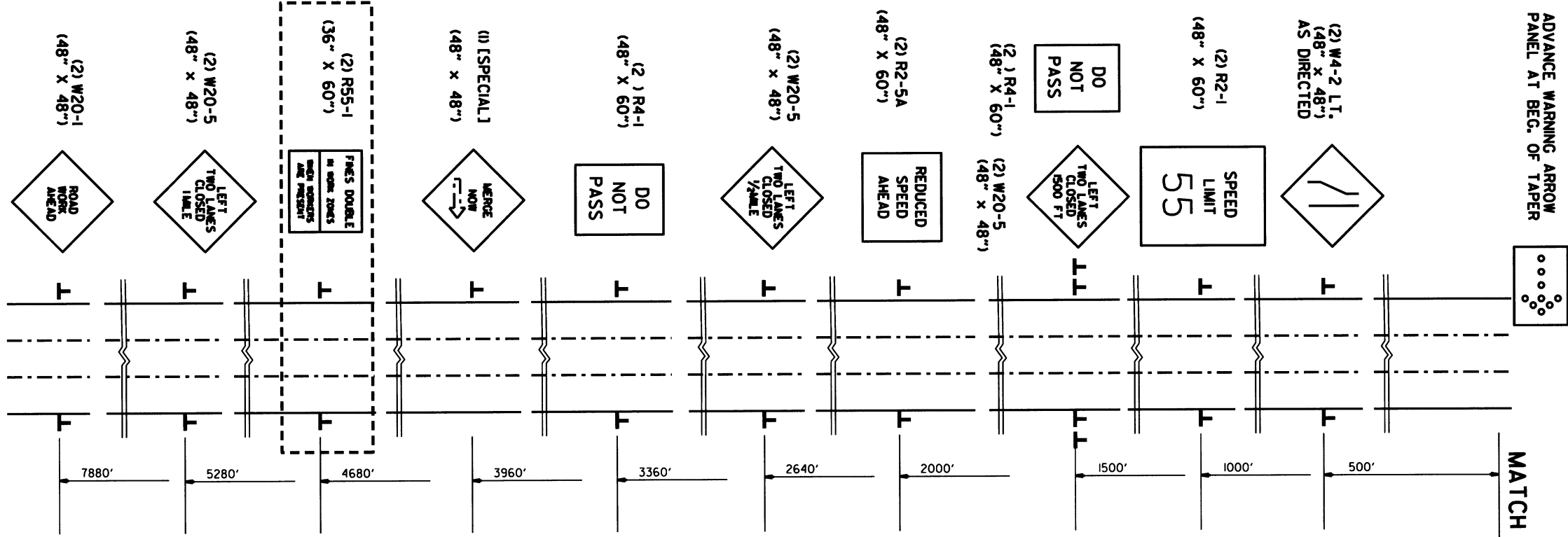
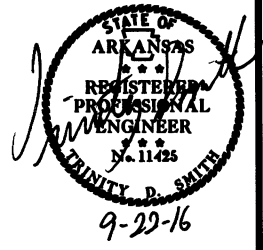
ADVANCE WARNING ARROW
PANEL AT BEG. OF TAPER
AS SHOWN ABOVE



ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM LAYOUT
FOR INSIDE LANE CLOSURES

DATE REVISION	DATE PLACED	DATE REVISION	DATE PLACED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		6	56
				JOB NO.	061505		6	56

② MAINTENANCE OF TRAFFIC



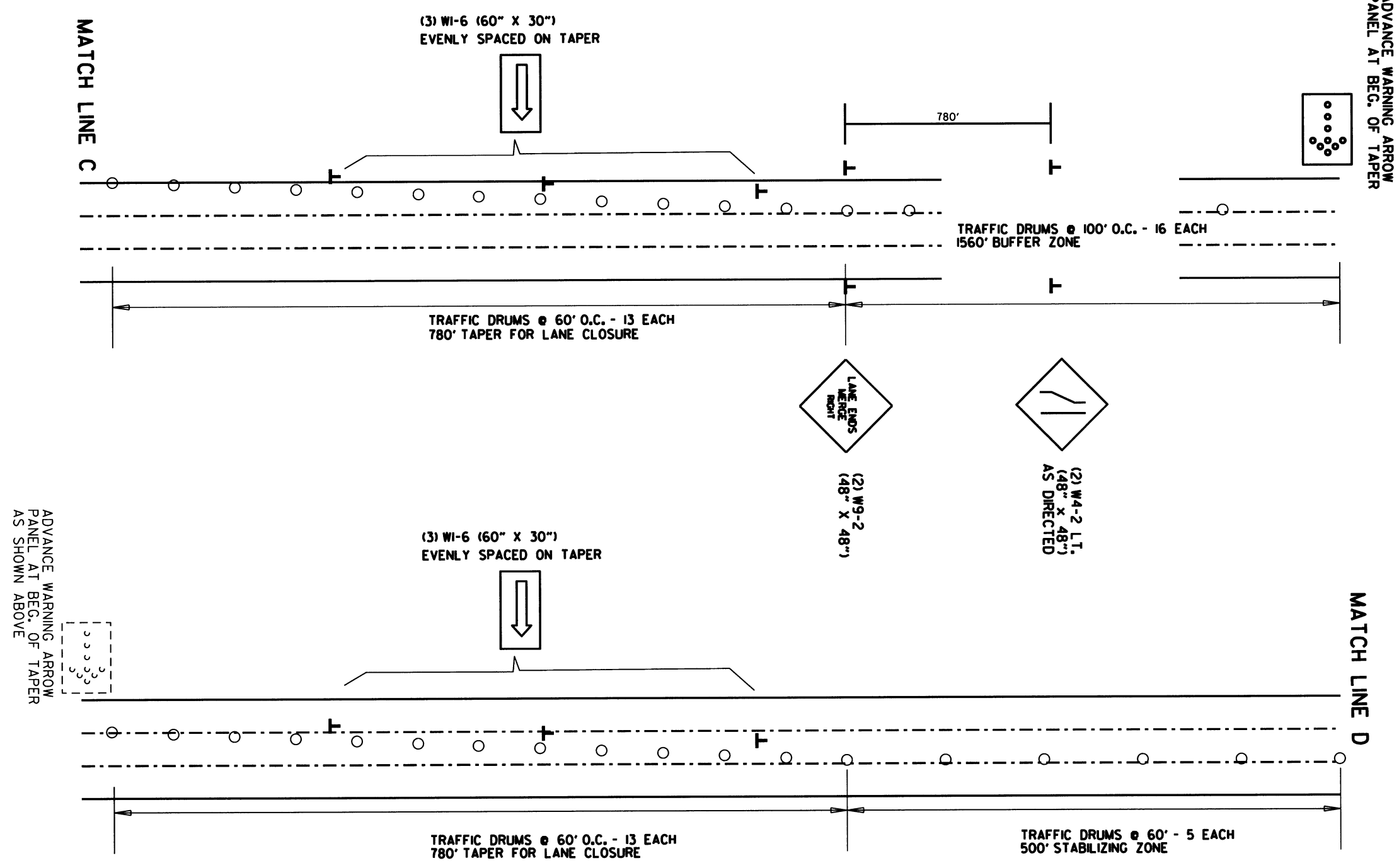
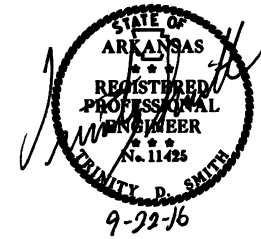
NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE,
LEAVE OUT R55-1 SIGNS.

ADVANCE WARNING SIGNS
FOR INSIDE & MIDDLE LANE CLOSURES

MATCH LINE C

DATE REVISED	DATE PLANNED	DATE REVISED	DATE PLANNED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		7	56
JOB NO. 061505								

② MAINTENANCE OF TRAFFIC



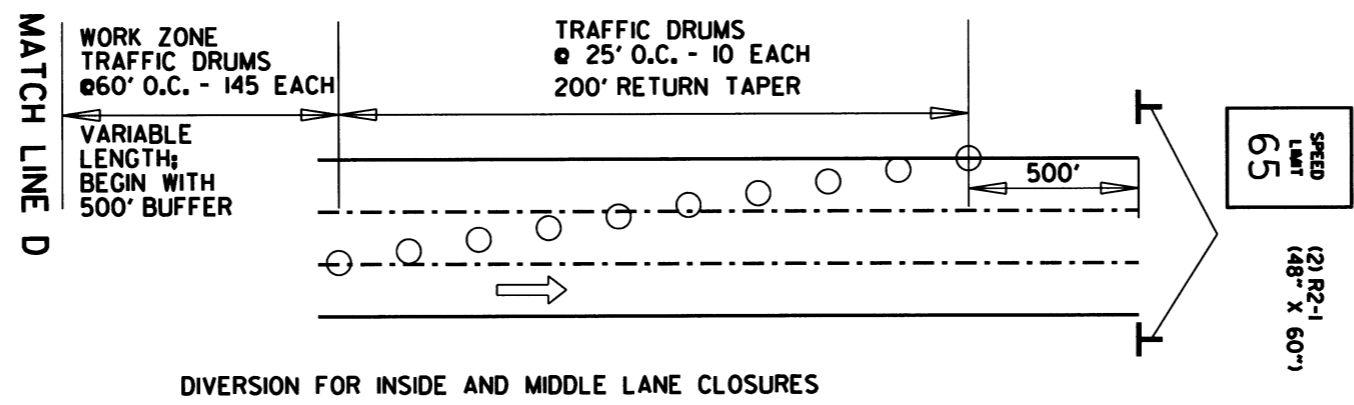
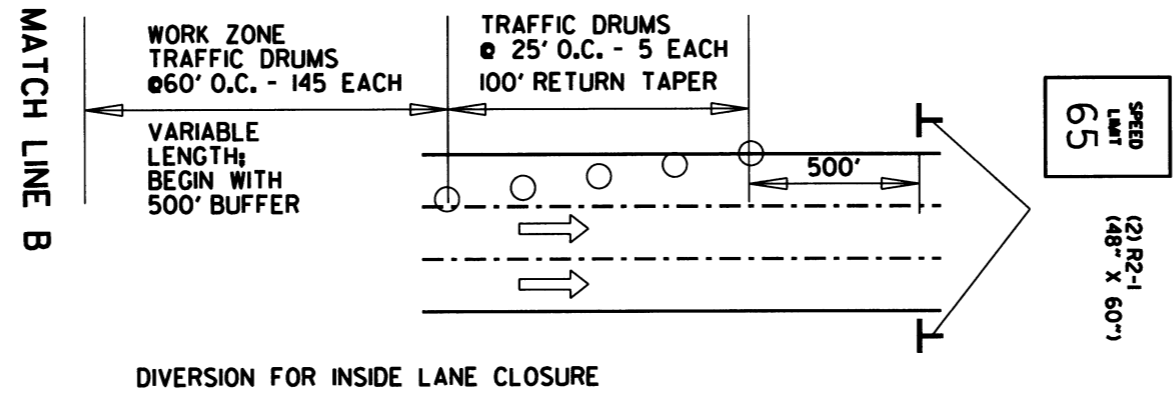
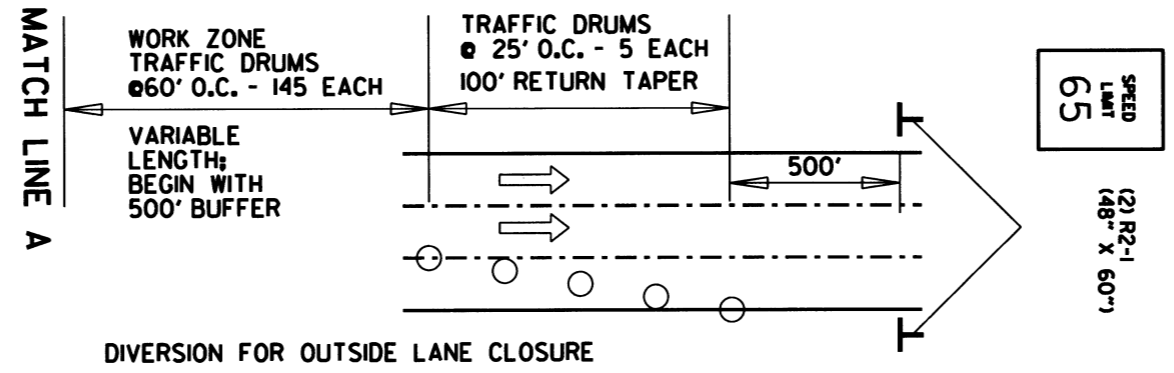
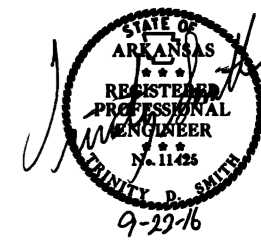
ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM LAYOUT FOR INSIDE & MIDDLE LANE CLOSURES

8/4/16

R061505.DGN

DATE REVISED	DATE PLANNED	DATE REVISED	DATE PLANNED	FEDERAL DIST. NO.	STATE	FEDERAL PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		8	56
				JOB NO.		061505		

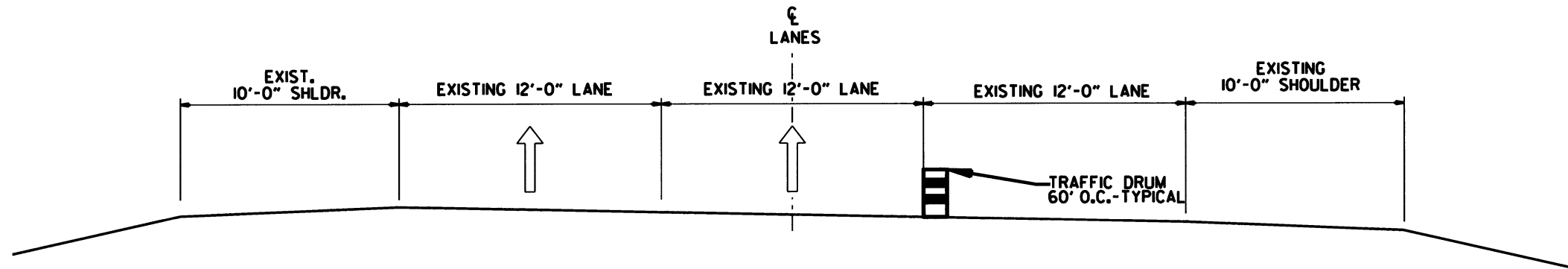
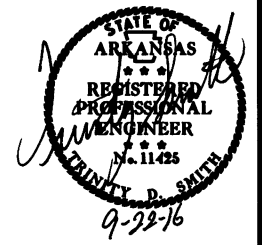
② MAINTENANCE OF TRAFFIC



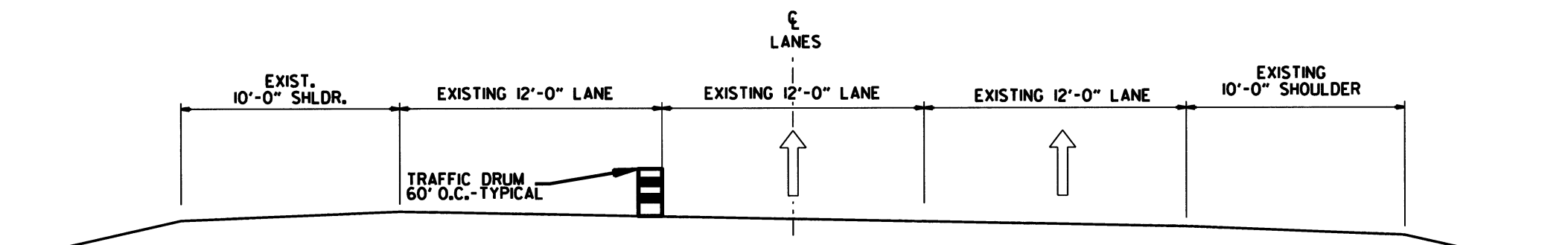
TYPICAL TRAFFIC DRUM LAYOUT FOR DIVERSION OF LANE CLOSURES

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FEDERAL DISTRICT	STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061505							9	56

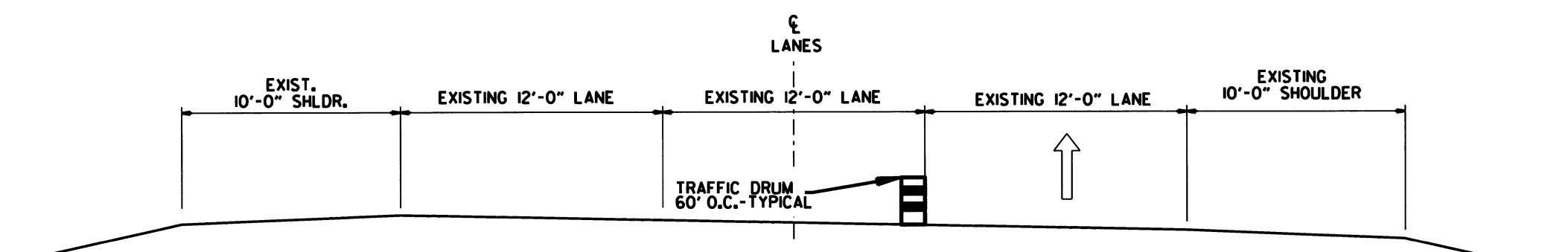
② MAINTENANCE OF TRAFFIC



LOCATION OF TRAFFIC DRUMS FOR MAINTENANCE OF TRAFFIC
OUTSIDE LANE CLOSED
(SHOWN IN DIRECTION OF TRAFFIC)



LOCATION OF TRAFFIC DRUMS FOR MAINTENANCE OF TRAFFIC
INSIDE LANE CLOSED
(SHOWN IN DIRECTION OF TRAFFIC)



LOCATION OF TRAFFIC DRUMS FOR MAINTENANCE OF TRAFFIC
INSIDE & MIDDLE LANE CLOSED
(SHOWN IN DIRECTION OF TRAFFIC)

8/4/16

061505.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	06505	10	56	

① QUANTITIES & GENERAL NOTES

CLEANING AND PAINTING EXISTING STRUCTURAL STEEL (TYPE II)

DESCRIPTION	QUANTITY	UNIT
BRIDGE NO. 05504	144	TON
BRIDGE NO. 05308	372	TON
BRIDGE NO. 05309	115	TON
BRIDGE NO. A5310	116	TON
BRIDGE NO. B5310	116	TON
BRIDGE NO. A5311	180	TON
BRIDGE NO. B5311	180	TON
BRIDGE NO. 05312	291	TON
BRIDGE NO. 05313	167	TON
TOTAL:	1681	TON

***DISPOSAL OF HAZARDOUS WASTE**

DESCRIPTION	QUANTITY	UNIT
BRIDGE NO. 05504 (SITE NO. 1)	1.00	LUMP SUM
BRIDGE NO. 05308 (SITE NO. 2)	1.00	LUMP SUM
BRIDGE NO. 05309 (SITE NO. 3)	1.00	LUMP SUM
BRIDGE NO. A5310 (SITE NO. 4)	1.00	LUMP SUM
BRIDGE NO. B5310 (SITE NO. 5)	1.00	LUMP SUM
BRIDGE NO. A5311 (SITE NO. 6)	1.00	LUMP SUM
BRIDGE NO. B5311 (SITE NO. 7)	1.00	LUMP SUM
BRIDGE NO. 05312 (SITE NO. 8)	1.00	LUMP SUM
BRIDGE NO. 05313 (SITE NO. 9)	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

- TOTAL ALLOWABLE WORKING DAYS: 85 DAYS
- 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, BROWN - FEDERAL STANDARD 595B COLOR CHIP 20108
MAXIMUM DFT FOR EACH COAT AS RECOMMENDED BY COATING MANUFACTURER.
- ALL SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF DUST OR OTHER OBJECTIONABLE MATTER.
- CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH THE LOCATION OF ALL UTILITIES ON THE BRIDGES BEFORE BIDDING.
- UTILITIES ON BRIDGES SHOULD BE PROTECTED DURING THE CLEANING AND PAINTING OPERATION.
- CONTAINMENT REQUIRED :

BRIDGE NUMBER	CLASS OF CONTAINMENT	MIGRATORY BIRDS
05504	3	NO
05308	3	NO
05309	3	NO
A5310	3	NO
B5310	3	NO
A5311	3	NO
B5311	3	NO
05312	3	YES
05313	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 APPROVED BY THE ENGINEER. ALL ITEMS NECESSARY FOR TRAFFIC CONTROL IS SUBSIDIARY TO THE ITEM OF "MAINTENANCE OF TRAFFIC".



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	REVISION	SHEET NO.	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	11	06505	11	56

SUMMARY OF QUANTITIES & REVISIONS

SUMMARY OF QUANTITIES

LOCATION			BRIDGE DATA		ITEM NO.	SP & 820	601	SP & 603	820	
BRIDGE NUMBER	I-430 LOG MILE	COUNTY	ROADWAY WIDTH (FT)	ROADWAY LENGTH (FT)	BRIDGE NAME	PAY ITEM	CLEANING AND PAINTING EXISTING STRUCTURAL STEEL (TYPE II)	MOBILIZATION	MAINTENANCE OF TRAFFIC	DISPOSAL OF HAZARDOUS WASTE (SITE NO.)
						UNIT				
05504	0.22	PULASKI	35.5	270	I-30 WB FRONTAGE RD. OVER I-430		144			1.00 (SITE NO. 1)
05308	1.24	PULASKI	63	402	ST. HWY. 5 INTERCHANGE		372			1.00 (SITE NO. 2)
05309	2.43	PULASKI	31	284	DAVID O. DODD. RD. OVER I-430		115			1.00 (SITE NO. 3)
A5310	3.56	PULASKI	51	205	I-430 OVER COLONEL GLENN RD.		116			1.00 (SITE NO. 4)
B5310	3.56	PULASKI	51	205	I-430 OVER COLONEL GLENN RD.		116			1.00 (SITE NO. 5)
A5311	4.15	PULASKI	51	249	I-430 OVER W. 36TH ST.		180			1.00 (SITE NO. 6)
B5311	4.15	PULASKI	51	249	I-430 OVER W. 36TH ST.		180			1.00 (SITE NO. 7)
05312	5.33	PULASKI	22	252	SHACKLEFORD RD. OVER I-430		291			1.00 (SITE NO. 8)
05313	5.92	PULASKI	22	341	KANIS RD. OVER I-430		167			1.00 (SITE NO. 9)
TOTAL JOB NO. 061505							1681	1.00	1.00	

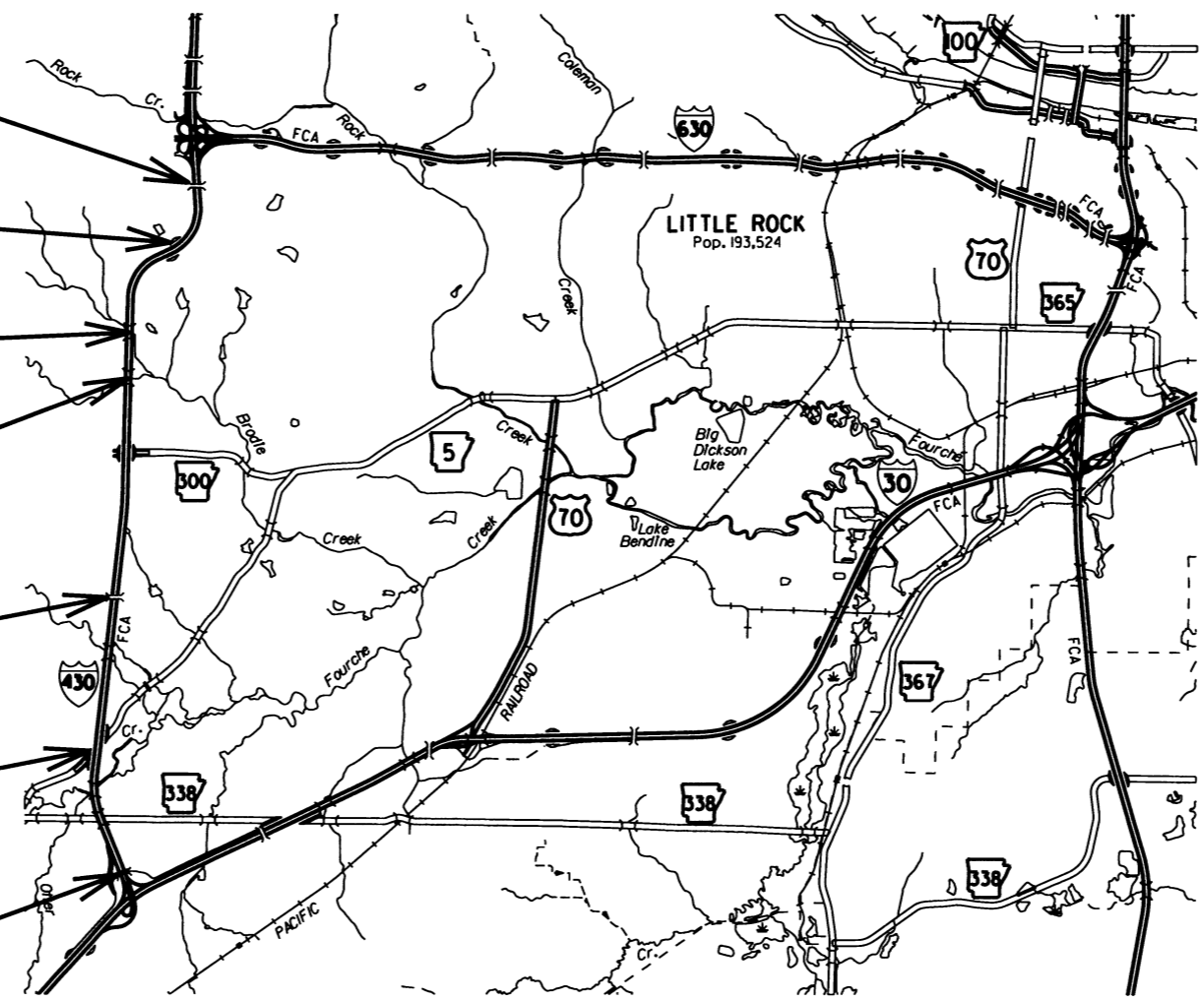
REVISIONS

DATE	REVISION	SHEET NO.



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	12	56
				JOB NO. 06505	12	56
SITE LOCATIONS MAP						

- 9 BRIDGE NO. 05313
KANIS ROAD
OVER I-430 LM 5.92
- 8 BRIDGE NO. 05312
SHACKLEFORD ROAD
Over I-430 LM 5.33
- 6 & 7 BRIDGE NOS. A5311 & B5311
I-430 LM 4.15
- 4 & 5 BRIDGE NOS. A5310 & B5310
I-430 LM 3.56
- 3 BRIDGE NO. 05309
DAVID O. DODD ROAD
OVER I-430 LM 2.43
- 2 BRIDGE NO. 05308
SH 5, SEC. 09, LM 3.28
OVER I-430 LM 1.24
- 1 BRIDGE NO. 05504
I-30 WB FRONTAGE
OVER I-430 LM 0.22



SITE LOCATIONS MAP

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	DESIGN NO.	SCALE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARC.			
				JOB NO.		06505	13	56

① BRIDGE PICTURES



SITE NO. 1 - BRIDGE NO. 05504



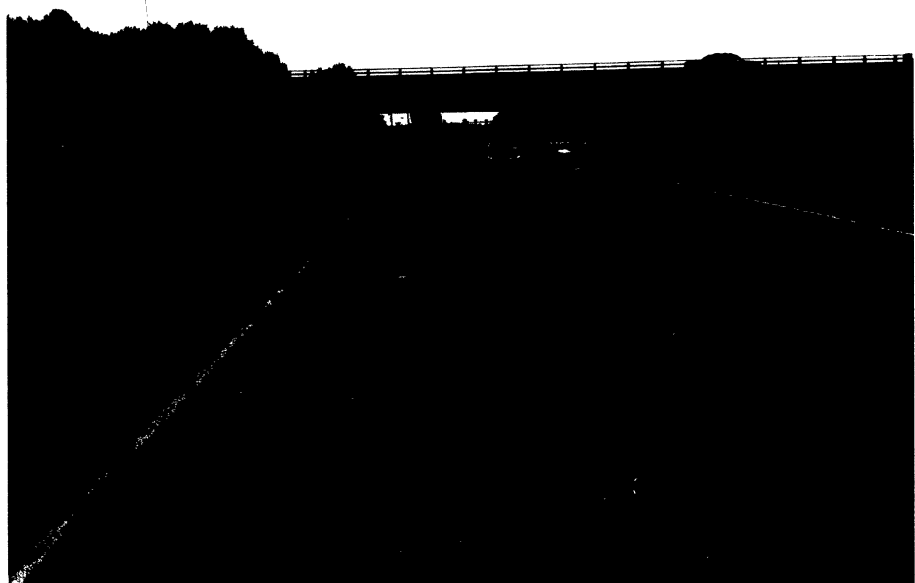
SITE NO. 2 - BRIDGE NO. 05308



SITE NO. 3 - BRIDGE NO. 05309



SITE NO. 4 - BRIDGE NO. A5310



SITE NO. 5 - BRIDGE NO. B5310



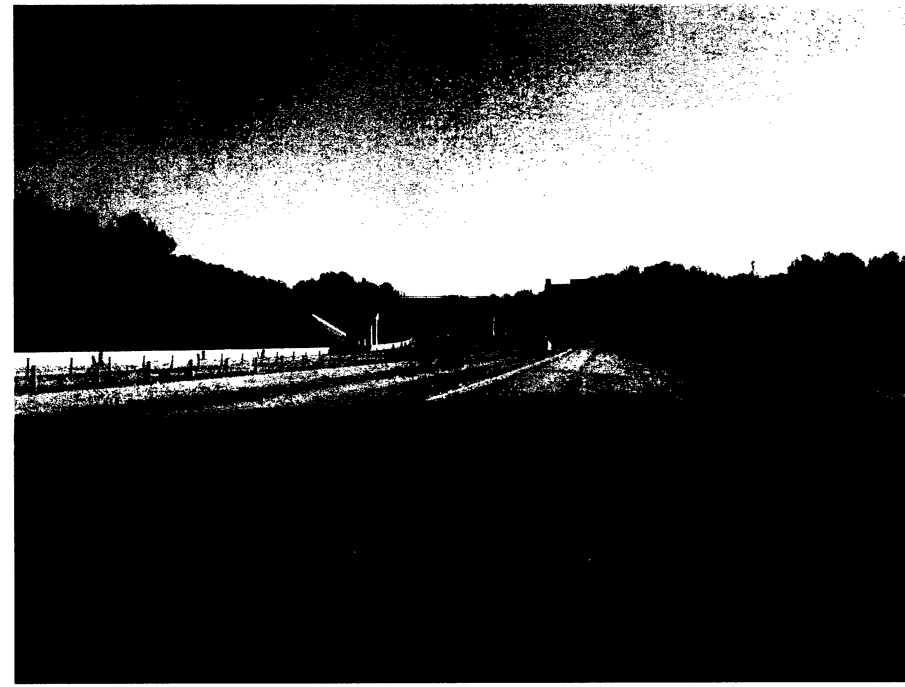
SITE NO. 6 - BRIDGE NO. A5311

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
9/21
JOSEPH A. MARINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FILMED BY	DATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARC.			
				JOB NO.		06505	14	56
① BRIDGE PICTURES								



SITE NO. 7 - BRIDGE NO. B531



SITE NO. 8 - BRIDGE NO. 05312

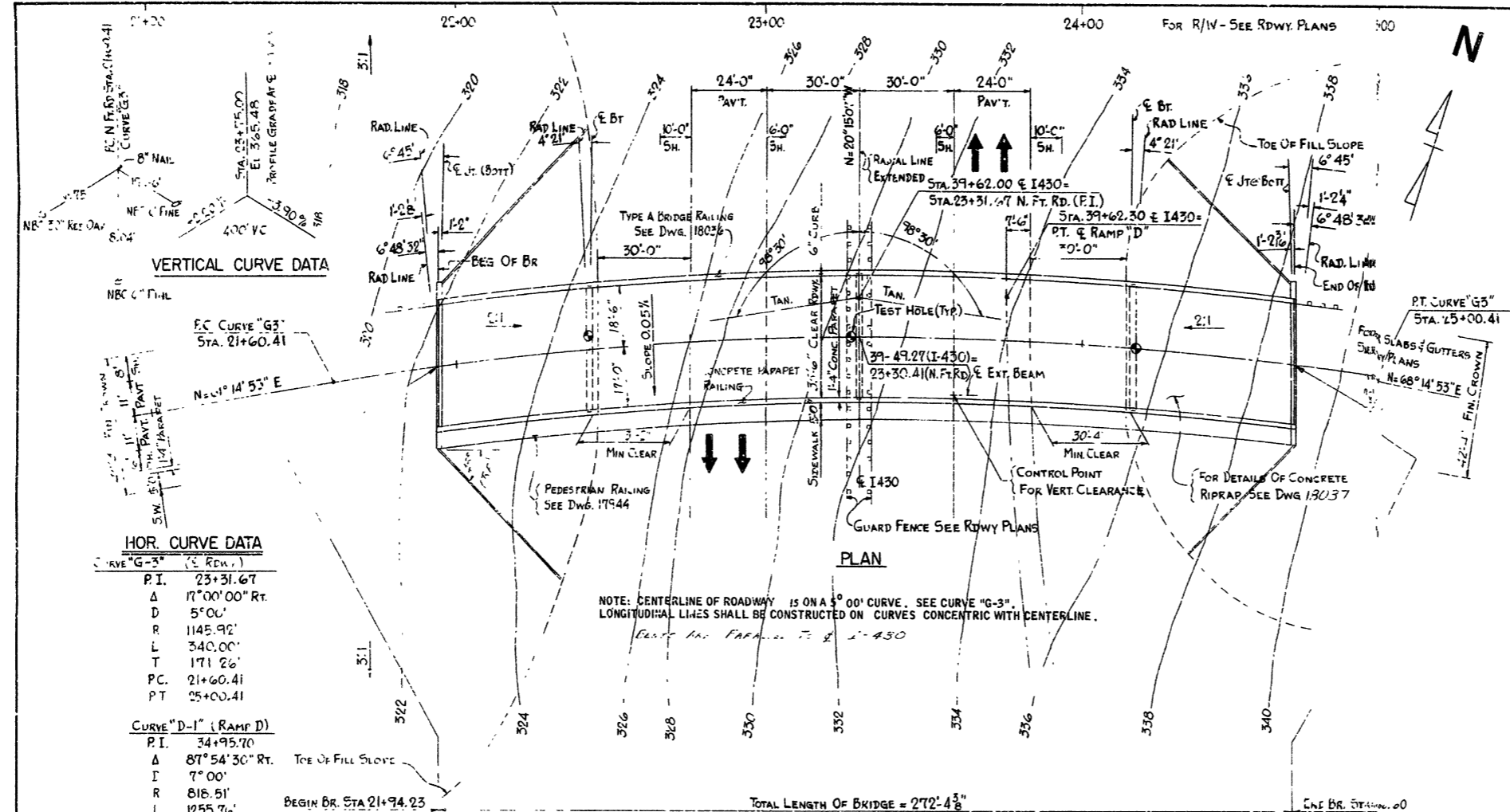


SITE NO. 9 - BRIDGE NO. 05313

STATE OF
 ARKANSAS
 REGISTERED
 PROFESSIONAL
 ENGINEER
 No. 7527
 9/21/16
 JOSEPH A. SARTORI

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.	06505		15	56
(1) SITE NO. 1 - 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.	17937	48	215
				JOB NO.	6848			
(1) 5504 Layout 17935								



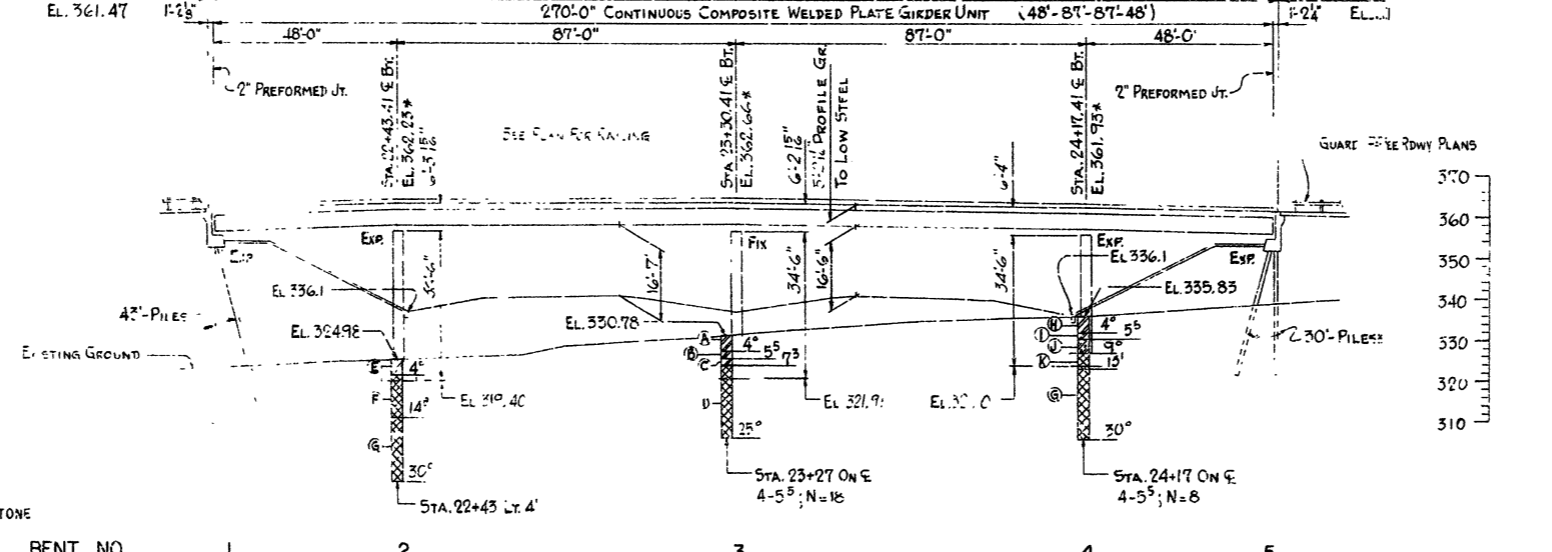
HOR. CURVE DATA

Curve "G-3" (Rdwy.)

P.I.	23+31.67
Δ	17°00'00" Rt.
D	5°00'
R	1145.92'
L	340.00'
T	171.26'
PC	21+60.41
PT	25+00.41

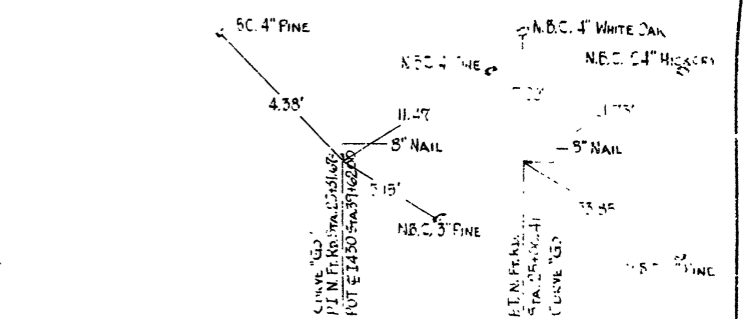
CURVE "D-1" (RAMP D)

P.I.	34+95.70
Δ	87°54'30" Rt.
L	7°00'
R	816.51'
L	1255.76'
T	789.10'
PC	27+06.54
PT	39+62.30



BORING LOG

(A) B.T.W. SANDY CLAY
(B) GRAY CLAY
(C) FIRM GRAY CLAY
(U) HARD BLUE SH. & LAYERS OF SANDSTONE
(E) MED. FIRM BROWN SANDY CLAY
(F) MED. HARD BROWN SHALE
(G) HARD BLUE SH. & SANDSTONE
(H) SOFT BROWN SANDY CLAY
(I) BROWN CLAY
(J) BROWN CLAY FEW SMALL GRAVEL
(K) M.F.D. HARD BLUE SHALE



BENCH MARK - NAIL IN SIDE POWER POLE - 173' LT. STATION 29+89 (RAMP A), ELEV. 348.01.

SPREAD FOOTINGS SHALL BE SET A MINIMUM OF 1'-6" INTO SHALE. ROCK EXCAVATIONS SHALL BE MADE TO NEAT LINES OF CONCRETE FOOTINGS. CARE SHALL BE EXERCISED TO AVOID SHATTERING OF ROCK FACES BY EXCESSIVE BLASTING. CONCRETE IN FOOTINGS SHALL BE POURED DIRECTLY AGAINST EXCAVATED SURFACES OF ROCK.

ALL CONCRETE SHALL BE POURED IN THE DRY.

ALL PILING SHALL BE HPI0X42 AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER WITH A MINIMUM ENERGY OF 10,000 FOOT POUNDS PER BLOW TO A MINIMUM BEARING CAPACITY OF 55 TONS PER PILE AND INTO THE MATERIAL DESIGNATED AS BLUE OR BROWN SHALE ON THE BORING LOGS. LENGTHS OF PILE SHOWN ARE FOR ESTIMATING QUANTITIES ONLY. ORDER LENGTHS SHOWN; CUT-OFF OR BUILD-UP, IF NECESSARY, TO BE PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

PILES IN END BENT TO BE DRIVEN AFTER EMBANKMENT TO SUBGRADE IS IN PLACE.

FOR DETAILS OF END BENTS, SEE DWG. NO. 17936 & 17937.
FOR DETAILS OF INTERMEDIATE BENTS, SEE DWG. NO. 17938, 17939 & 17940.
FOR DETAILS OF SUPERSTRUCTURE, SEE DWG. NO. 17941 THRU 17946.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1972, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHO 1969

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

UNIT STRESSES: CLASS S OR S(AE) CONCRETE (N=10) 1,200 PSI
REINFORCING STEEL 20,000 PSI
STRUCTURAL STEEL (A36) 20,000 PSI
STRUCTURAL STEEL (A572 - GRADE 50) 27,000 PSI

FOUNDATION PRESSURE:

GROUP	MAXIMUM	MINIMUM
GROUP I	8.05 KSF	8.05 KSF
GROUP II	11.92 KSF	0 KSF
GROUP III	11.76 KSF	4.34 KSF

FOR INFORMATION ONLY

LAYOUT OF UNDERPASS
NORTH FRONTAGE ROAD
JCT. I-30 FOURCHE CREEK
PULASKI COUNTY
INT. ROUTE 430 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

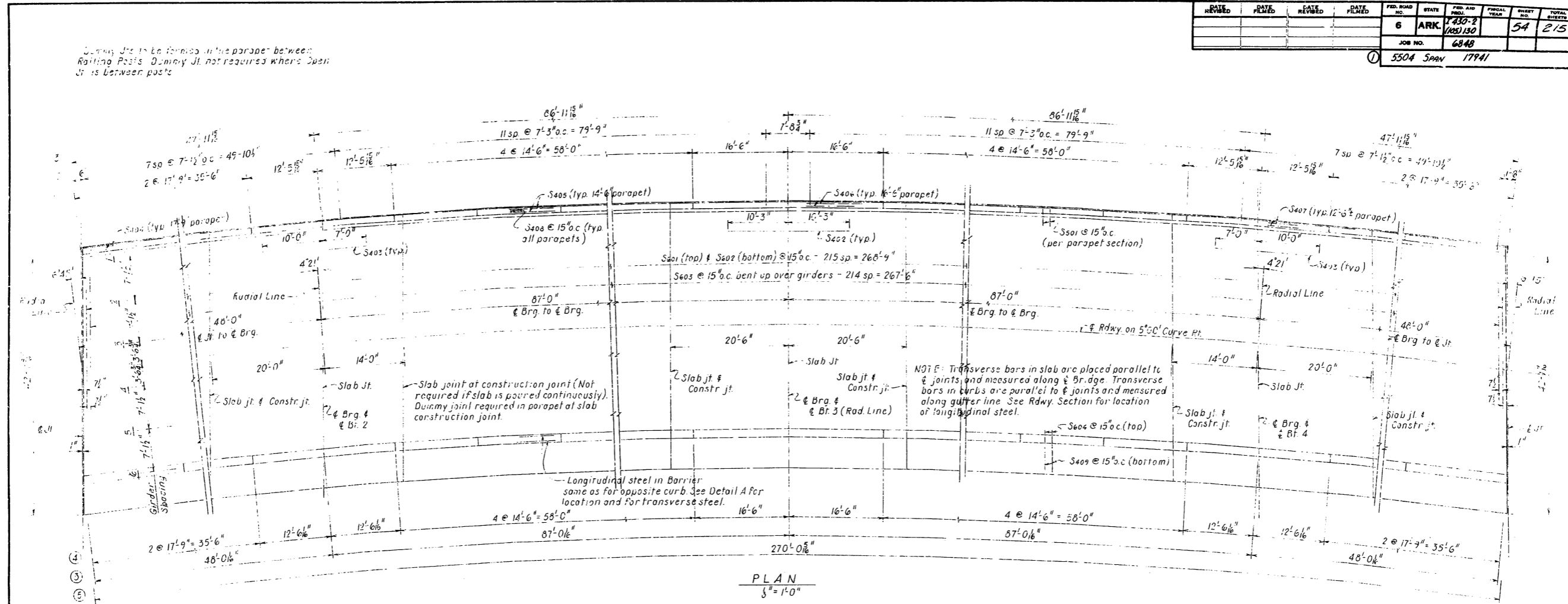
DRAWN BY: [Signature] DATE: [Date]
TRACED BY: [Signature] DATE: [Date]
CHECKED BY: [Signature] DATE: [Date]

SCALE: 1" = 20'-0"
BRIDGE NO. 5504 DRAWING NO. 17935

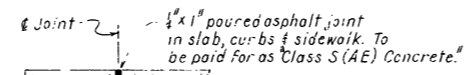
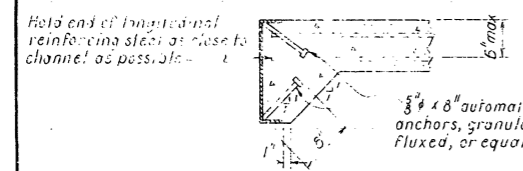
DATE REVISION	DATE FILED	DATE REVISION	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		06505	15	56
① SITE NO. 1 - FOR INFORMATION ONLY								

DATE REVISION	DATE FILED	DATE REVISION	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	1430-2	1981	54	215
				JOB NO.		6848			
				①		5504 Span	17941		

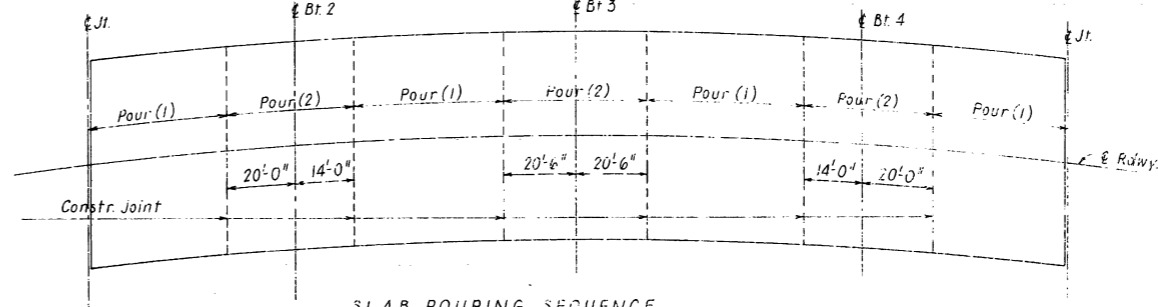
Open Jts to be formed in the parapet between Railing Posts. Dummy Jt. not required where Open Jt. is between posts.



- ① 3" Open Jts in parapet - Measured along front face of parapet.
- ② Post spacing measured along front face of parapet
- ③ Measured along gutter line.
- ④ 8" Open Jts in Conc. Parapet Rail - Measured along gutter line. (Depth of Open Jt - 2'-0" below top of rail)
- ⑤ Pedestrian Rail measured along & Rail.



NOTE: See Plan for location of joints
SLAB JOINTS
 No Scale



All pours (1) adjacent to pours (2) must be placed before pours (2) can be placed. 48 hours shall elapse between pours (1) and 72 hours shall elapse between adjacent pours (1) and (2).

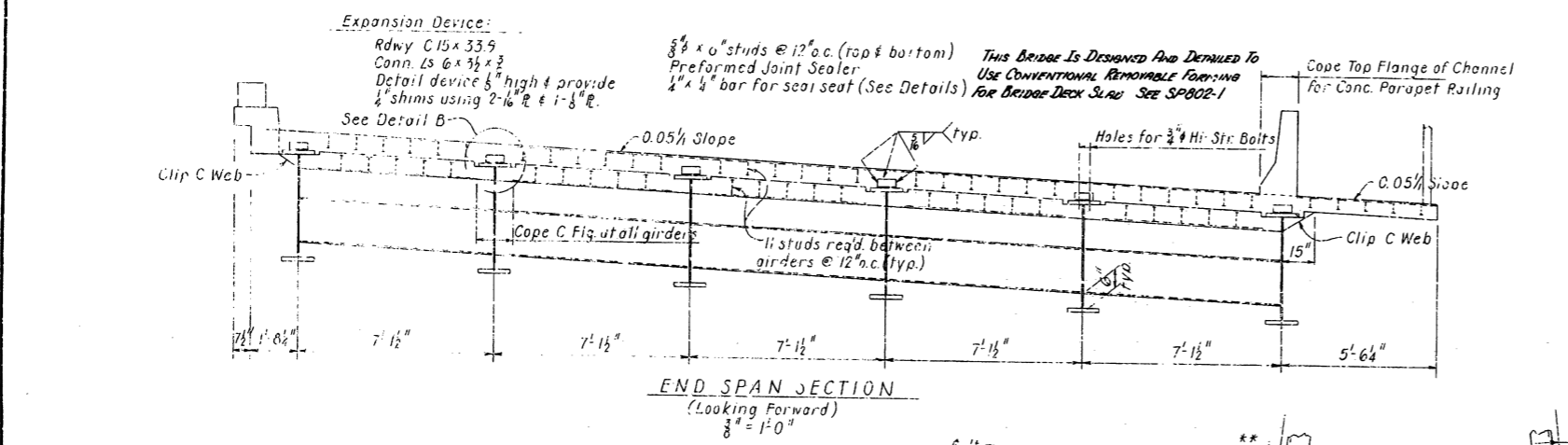
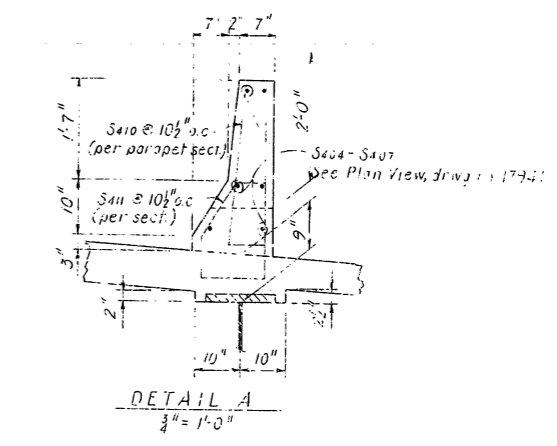
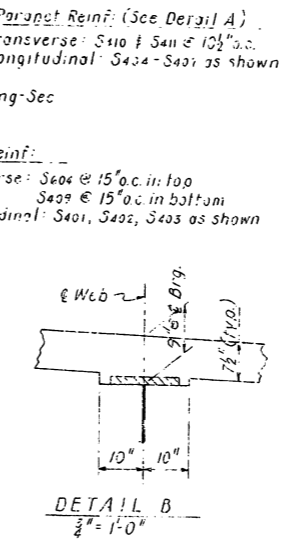
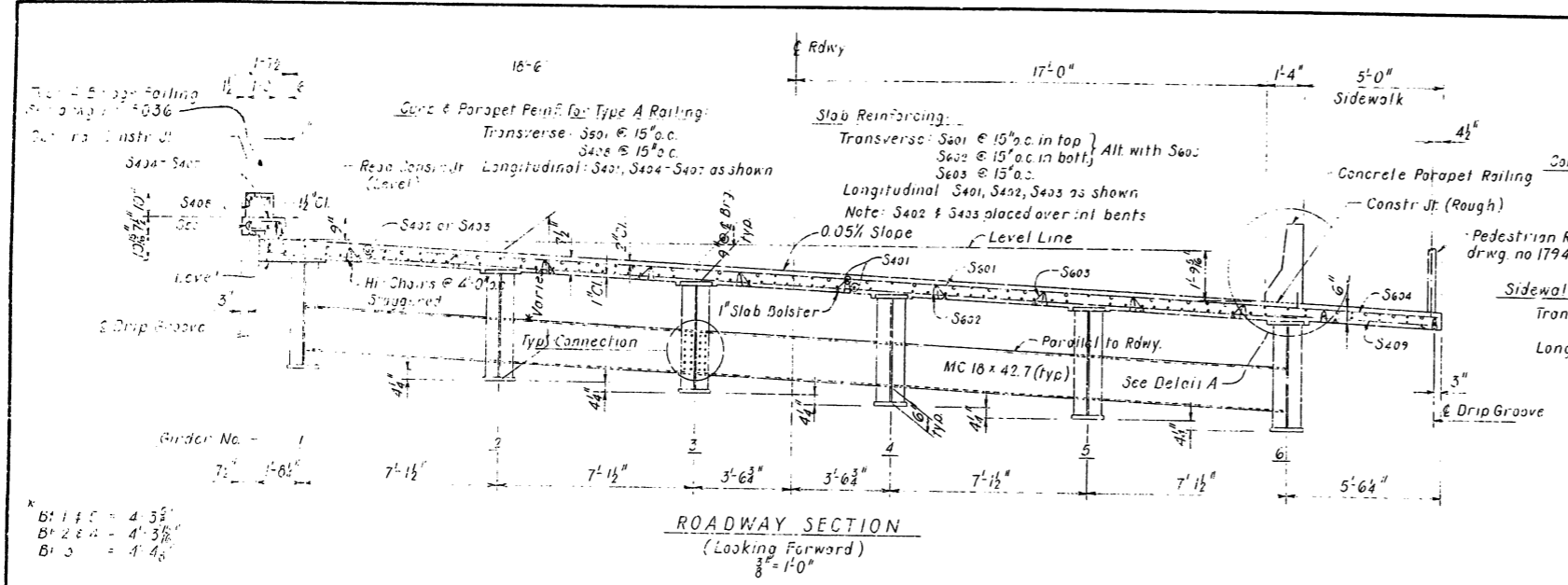
FOR INFORMATION ONLY

SHEET 1 OF 6
 DETAILS OF CONTINUOUS PLATE GIRDER UNIT
 NORTH FRONTAGE ROAD
 JCT. I-30 - FOURCHE CREEK
 PULASKI COUNTY
 INT. ROUTE 430 SEC. 21
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: *W. A. ...* DATE: 11-30-72
 TRACED BY: *...* DATE: *...* SCALE: *As Shown*
 CHECKED BY: *...* DATE: 12-6-72
 BRIDGE NO. 5504 DRAWING NO. 17941

W. A. ...
 BRIDGE ENGINEER

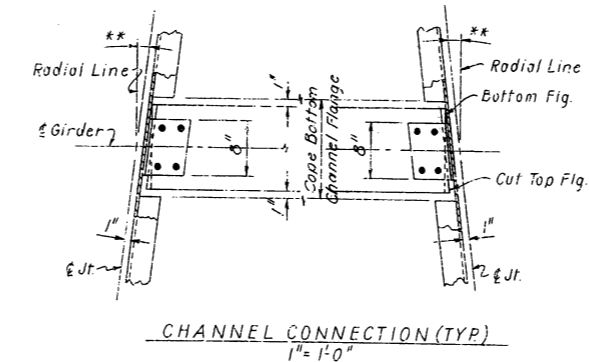
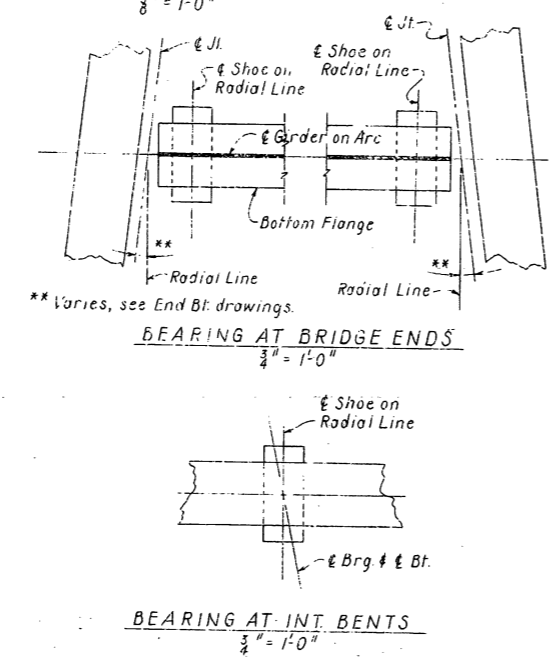
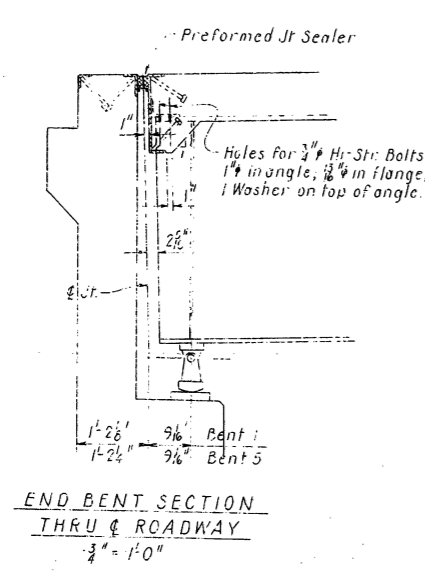
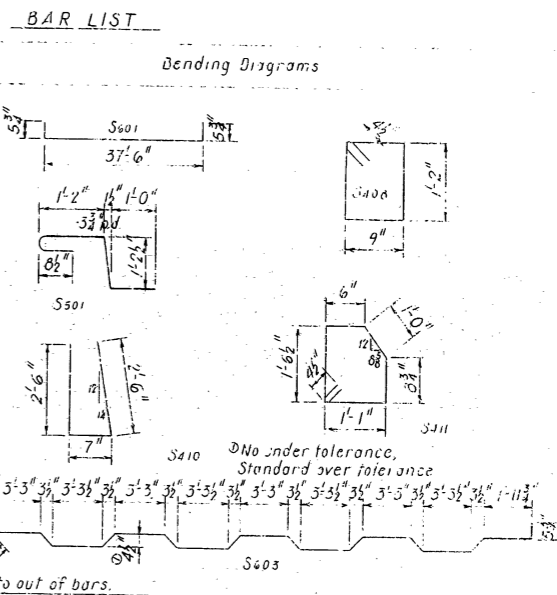
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				6	ARK.	430-2 (105)130	55	215	
				JOB NO.	5504 SPAN 17942				
				JOB NO.	06505 17 56				
SITE NO. 1 - FOR INFORMATION ONLY									

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	430-2 (105)130	55	215	
				JOB NO.	5504 SPAN 17942				



BAR LIST

MARK	No. Req'd.	Length	Pin Dia.
S401	216	58'-2"	3/8"
S402	216	37'-6"	3/8"
S403	215	37'-5"	3/8"
S404	216	8'-8"	3/8"
S405	218	4'-1"	2 1/2"
S406	846	35'-3"	3/8"
S407	28	20'-6"	3/8"
S408	56	17'-0"	3/8"
S409	32	17'-5"	3/8"
S410	64	14'-2"	3/8"
S411	16	16'-2"	3/8"
S412	32	12'-2"	3/8"
S413	218	4'-4"	2"
S414	216	8'-0"	3/8"
S415	318	5'-4"	2"



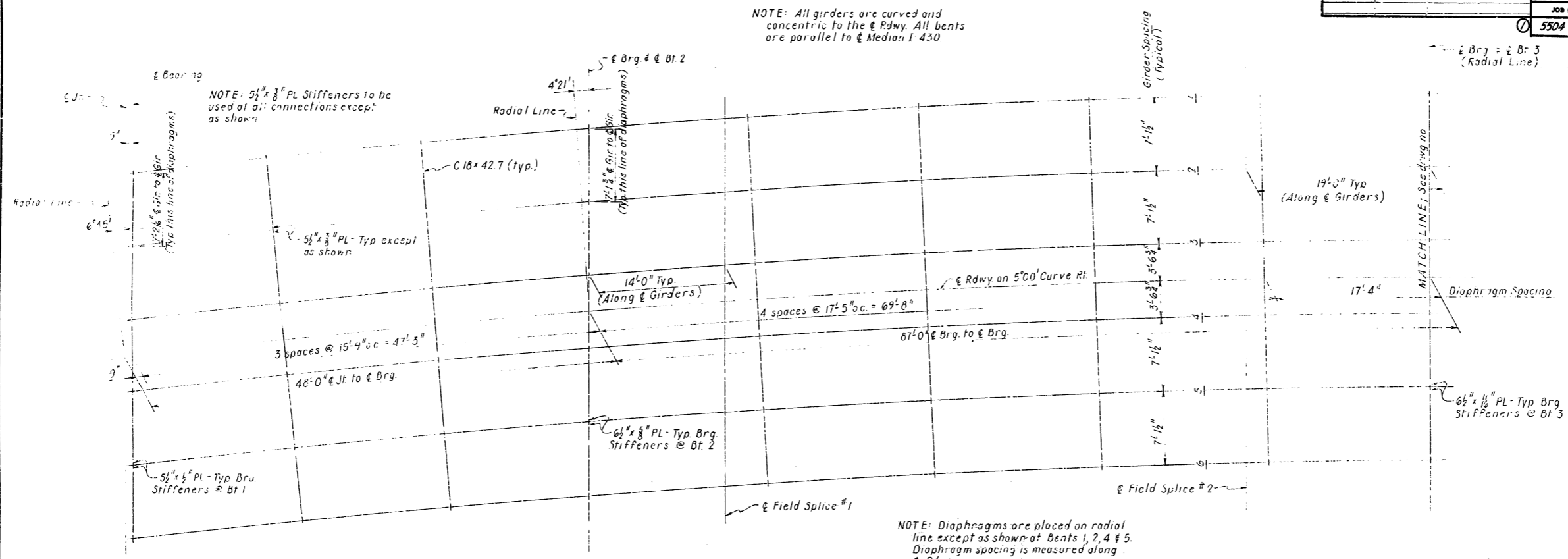
FOR INFORMATION ONLY

SHEET 2 OF 6
DETAILS OF CONTINUOUS PLATE GIRDER UNIT
 NORTH FRONTAGE ROAD
 JCT. I-30 - FOURCREEK
 PULASKI COUNTY
 INT. ROUTE 430 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: *H. Maj.* DATE: 11-30-72
 CHECKED BY: *JAS* DATE: 12-6-72
 SCALE: As Shown
BRIDGE NO. 5504 DRAWING NO. 17942

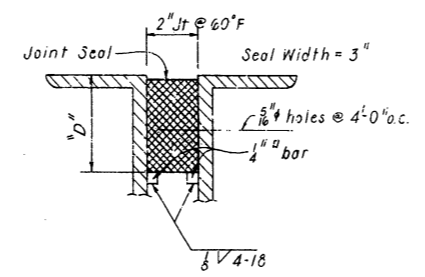
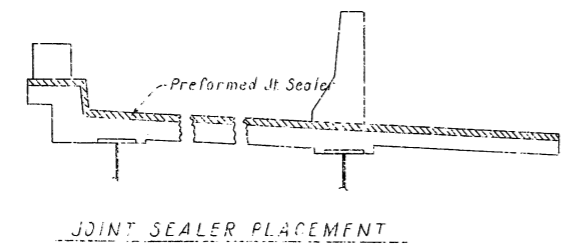
Paul Pinkerton
 BRIDGE ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-430-2 (129/130)	56	215
				JOB NO. 06505		IS		56
① SITE NO. 1 - FOR INFORMATION ONLY								

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-430-2 (129/130)		56	215
				JOB NO. 6848		5504 SPAN 17943			



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



The Dimension "D" shall conform to the recommendations of the seal manufacturer as approved by the Bridge Engineer. The depth of the seal shall be approximately equal to the uncompressed width of the seal.

NOTES:
ALL GIRDERS SHALL BE BLOCKED IN THEIR TRUE POSITION, WITH WEB PLATES HORIZONTAL, IN THE SHOP TO FORM EACH COMPLETE UNIT. THE CAMBER, LENGTH OF SECTIONS, DISTANCE BETWEEN BEARINGS AND OPENING OF JOINTS SHALL BE MEASURED WITH THE BEAMS IN THIS POSITION AND THIS INFORMATION SHALL BECOME A PART OF THE PERMANENT RECORD OF THIS JOB. THE COMPONENT PARTS SHALL BE MATCH MARKED IN THIS ASSEMBLY AND THESE MARKS SHALL BE SHOWN ON THE ERECTION DIAGRAM. ALL GIRDER DIMENSIONS ARE BASED ON A TEMPERATURE OF 60°F. A TOLERANCE OF $\pm 1/4"$ IS ALLOWED FOR CAMBER.

DIAPHRAGMS AT BEARING STIFFENERS SHALL BE INSTALLED AS GIRDERS ARE ERECTED. ALL DIAPHRAGMS SHALL BE INSTALLED AND COMPLETELY BOLTED PRIOR TO POURING OF FLOOR SLABS.

UNIT STRESSES:

CLASS S(AE) CONCRETE (N=10)	1,200 PSI
REINFORCING STEEL	20,000 PSI
STRUCTURAL STEEL (A36)	20,000 PSI
STRUCTURAL STEEL (A572, GRADE 50)	27,000 PSI

DESIGN SPECIFICATIONS: AASHO 1969 AND INTERIM SPECIFICATIONS

DESIGN LIVE LOAD - HS20

LOAD DISTRIBUTION	DEAD LOAD TO GIRDER (INCLUDES 158 PLF FOR WEIGHT OF GIRDER)	DEAD LOAD TO COMP. GIRDER (INCLUDES 148 PLF FOR WEIGHT OF FUTURE SURFACE)	LIVE LOAD TO COMP. GIRDER
EXT. GIRDER 1	677 PLF	306 PLF	1,2324 WHEELS + IMPACT
INT. GIRDER 2-5	837 PLF	234 PLF	1,2955 WHEELS + IMPACT
EXT. GIRDER 6	962 PLF	333 PLF	1,2324 WHEELS + IMPACT

FOR INFORMATION ONLY

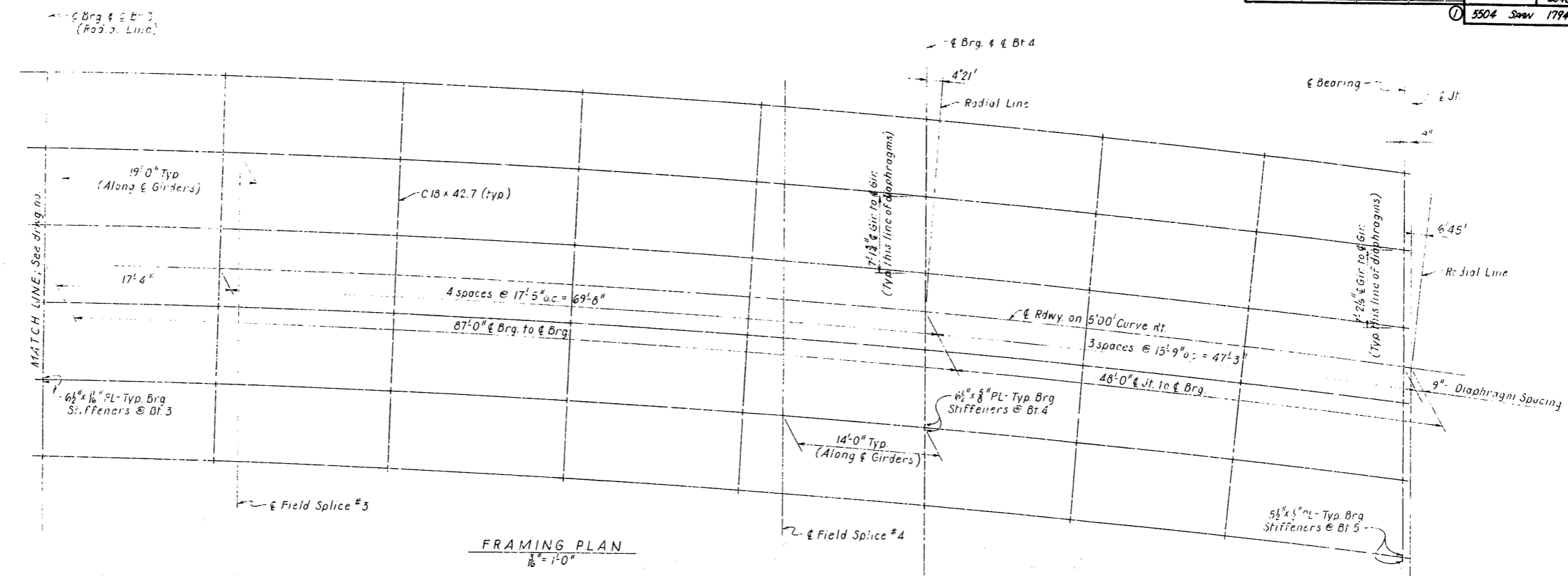
SHEET 3 OF 6
 DETAILS OF CONTINUOUS PLATE GIRDER UNIT
 NORTH FRONTAGE ROAD
 JCT. I-30 - FOURCHE CREEK
 PULASKI COUNTY
 INT. ROUTE 430 SEC. 21
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: H. Day DATE: 11-30-72
 TRACED BY: DATE: SCALE: As shown
 CHECKED BY: JAE DATE: 12-7-72
 BRIDGE NO. 5504 DRAWING NO. 17943

Val Penhater
 BRIDGE ENGINEER

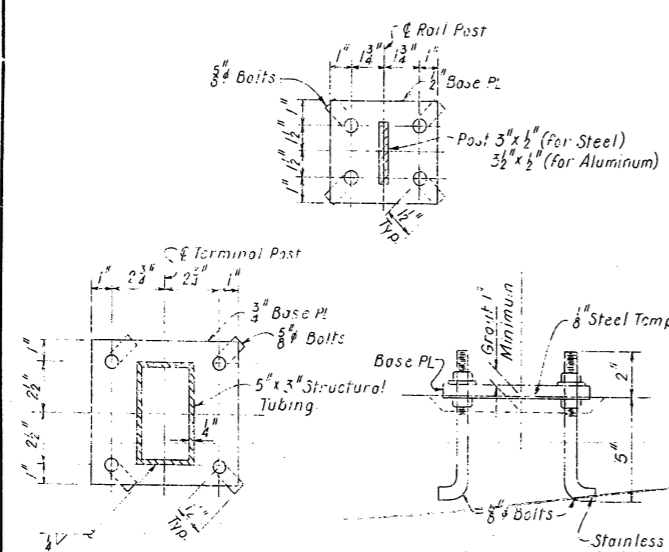
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				6	ARK.	1980-2	(1981) 130	57	215
				JOB NO.	06505			19	56

① SITE NO. 1 - FOR INFORMATION ONLY

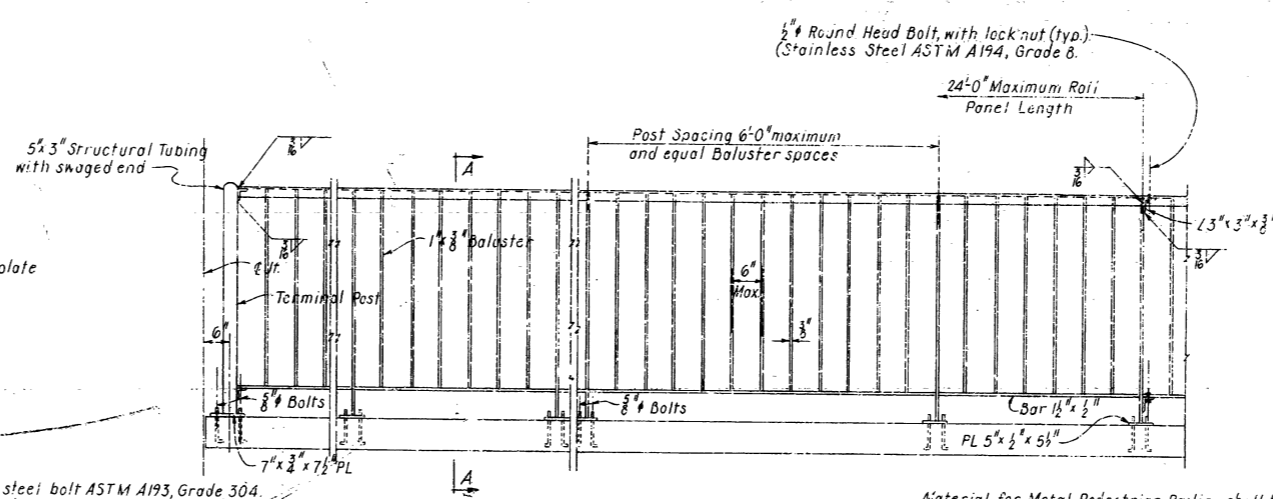
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				JOB NO.	6048				
				5504	SPAV	17944			



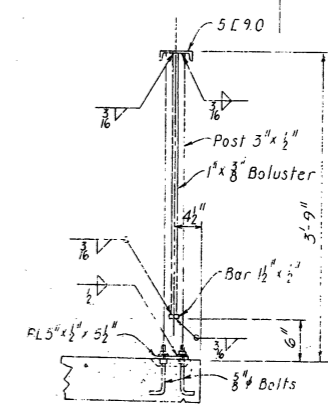
FRAMING PLAN
1/8" = 1'-0"



PEDESTRIAN RAILING - ANCHOR BOLT ASSEMBLIES
3/8" = 1'-0"



ELEVATION OF PEDESTRIAN RAILING
3/8" = 1'-0"



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

Material for Metal Pedestrian Railing shall be ASTM A36 and galvanized in accordance with ASTM 123 or Aluminum Alloy 6061-T6, ASTM B 221. All bolts, nuts and washers shall be Stainless Steel as noted on details. Mixing of Aluminum and Galvanized Steel parts in railing assembly is not permitted.

FOR INFORMATION ONLY

SHEET 4 OF 6
 DETAILS OF CONTINUOUS PLATE GIRDER UNIT
 NORTH FRONTAGE ROAD
 JCT. I-30 - FOURCREEK
 PULASKI COUNTY
 INT. ROUTE 430 SEC. 21
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: H. May DATE: 11-29-72
 TRACED BY: DATE: SCALE: As Shown
 CHECKED BY: VAS DATE: 12-7-72
 BRIDGE NO. 5504 DRAWING NO. 17944

Visual Products
 BRIDGE ENGINEER

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	1430-2 (105) 130	58	215
				JOB NO.	06505		20	56

① SITE NO. 1 - FOR INFORMATION ONLY

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	1430-2 (105) 130	58	215
				JOB NO.	6848			
				5504 Spaw		17945		

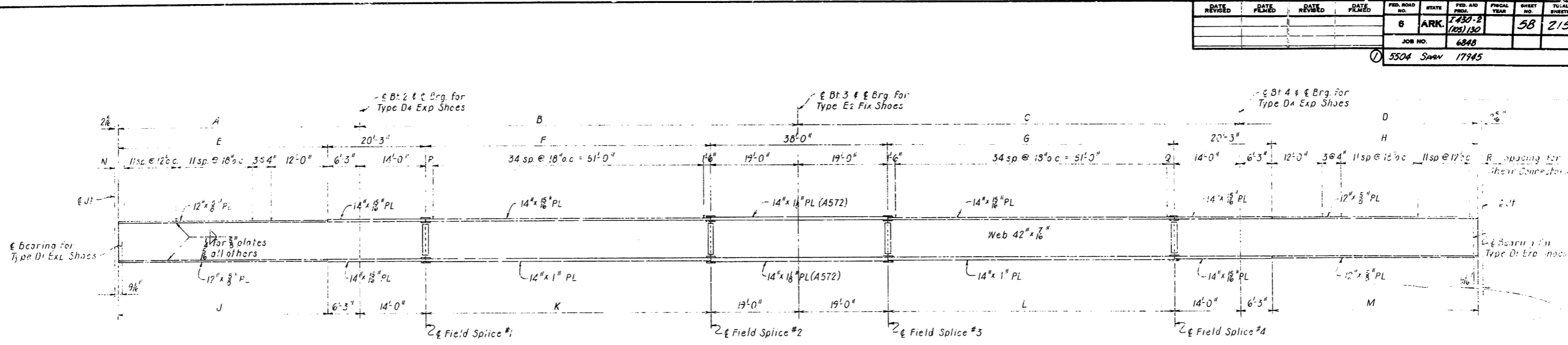
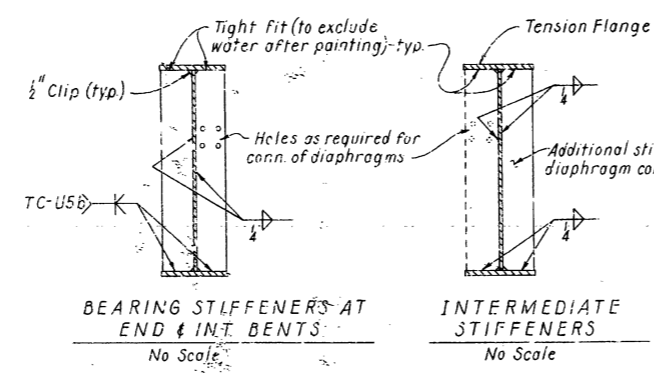
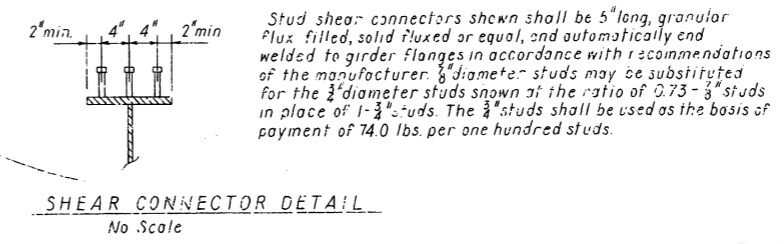
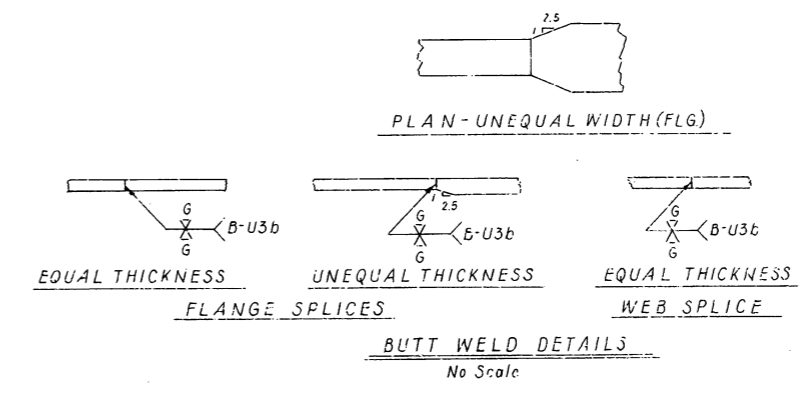
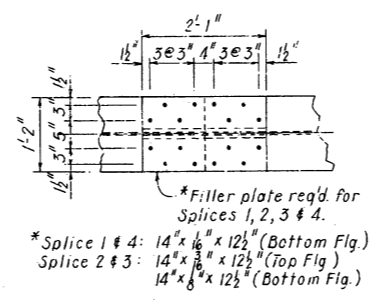
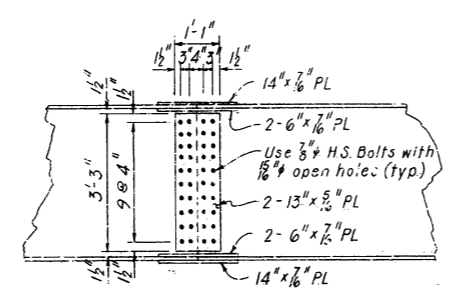


TABLE OF VARIABLES

Variable	Girder No.					
	1	2	3	4	5	6
A	47'-9 3/8"	47'-9 3/8"	47'-9 1/8"	47'-9 3/8"	47'-9 3/8"	47'-9 3/8"
B	86'-11 1/8"	87'-0"	87'-0"	87'-0"	87'-0"	87'-0 1/8"
C	86'-11 1/8"	87'-0"	87'-0"	87'-0"	87'-0"	87'-0 1/8"
D	47'-9 3/8"	47'-9 3/8"	47'-9 1/8"	47'-9 3/8"	47'-9 3/8"	47'-9 3/8"
E	41'-6 3/8"	41'-6 3/8"	41'-6 1/8"	41'-6 3/8"	41'-6 3/8"	41'-6 3/8"
F	55'-11 1/8"	54'-0"	54'-0"	54'-0"	54'-0"	54'-0 1/8"
G	53'-11 1/8"	54'-0"	54'-0"	54'-0"	54'-0"	54'-0 1/8"
H	41'-6 3/8"	41'-6 3/8"	41'-6 1/8"	41'-6 3/8"	41'-6 3/8"	41'-6 3/8"
J	41'-6 3/8"	41'-6 3/8"	41'-6 1/8"	41'-6 3/8"	41'-6 3/8"	41'-6 3/8"
K	53'-11 1/8"	54'-0"	54'-0"	54'-0"	54'-0"	54'-0 1/8"
L	53'-11 1/8"	54'-0"	54'-0"	54'-0"	54'-0"	54'-0 1/8"
M	41'-6 3/8"	41'-6 3/8"	41'-6 1/8"	41'-6 3/8"	41'-6 3/8"	41'-6 3/8"
N	1'-2 1/8"	1'-2 1/8"	1'-3"	1'-3"	1'-3 1/8"	1'-3 1/8"
P	1'-5 3/8"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6 1/8"
Q	1'-5 3/8"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6 1/8"
R	1'-2 1/8"	1'-2 1/8"	1'-3"	1'-3"	1'-3 1/8"	1'-3 1/8"
Girder Radius	1163.73	1156.61	1149.46	1142.36	1135.23	1128.11



NOTE: See Framing Plan for Plate sizes.

FOR INFORMATION ONLY

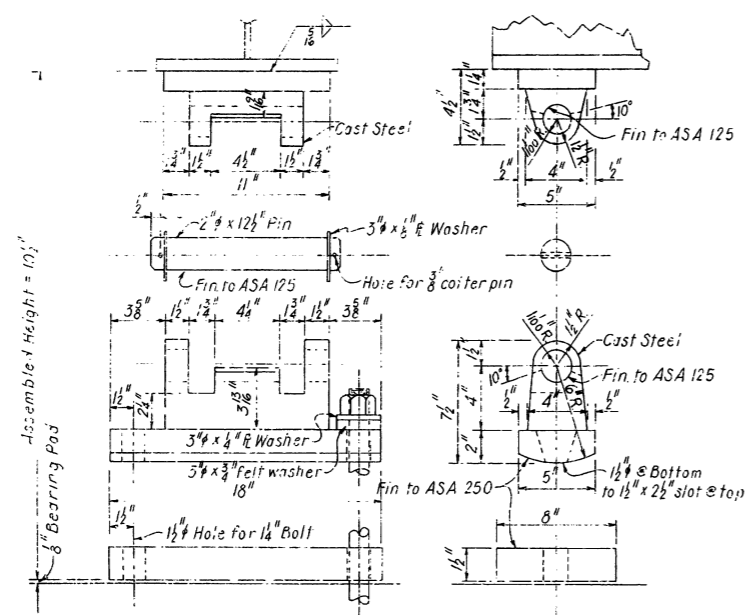
SHEET 5 OF 6
 DETAILS OF CONTINUOUS PLATE GIRDER UNIT
 NORTH FRONTAGE ROAD
 JCT. I-30 - FOURCREEK
 PULASKI COUNTY
 INT. ROUTE 430 SEC. 21
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: A. Har. DATE: 11-30-72
 TRACED BY: DATE: SCALE: As Shown
 CHECKED BY: VAS DATE: 12-8-72
 BRIDGE NO. 5504 DRAWING NO. 17945

Veral Probert
 BRIDGE ENGINEER

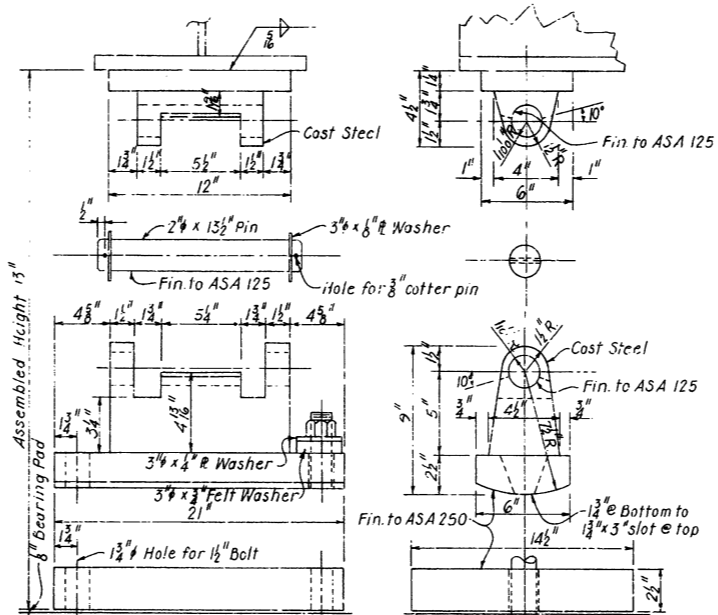
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	1430-2 (20)130		59	215
				JOB NO. 6848					
				5504 Spwn 17946					

① SITE NO. 1 - FOR INFORMATION ONLY

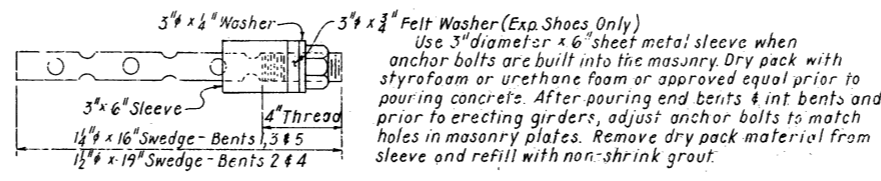


TYPE D1 EXPANSION SHOE
(Bents 1 & 5)

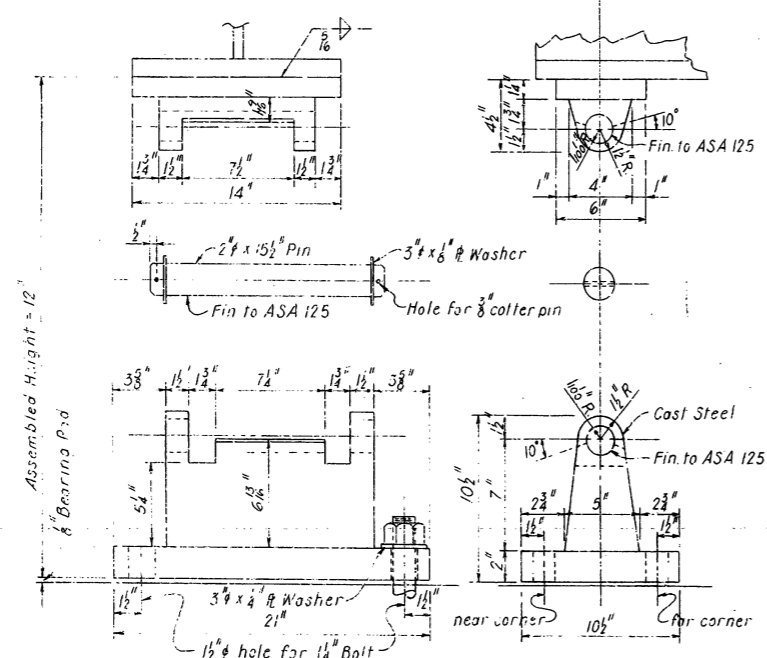
MATERIALS FOR SHOES: Steel Castings
ASTM A27 Grade 70-40, & ASTM A36.



TYPE D4 EXPANSION SHOE
(Bents 2 & 4)



ANCHOR BOLT DETAIL



TYPE E2 FIXED SHOE
(Bent 3)

TABLE OF DEFLECTIONS (IN.)

Point of Deflection	Wt. of Girder			Wt. of Girder & Slab			Wt. of Girder, Slab, Sidewalk, Parapet & Rails		
	Ext. 1	Int. 2-5	Ext. 6	Ext. 1	Int. 2-5	Ext. 6	Ext. 1	Int. 2-5	Ext. 6
0	0	0	0	0	0	0	0	0	0
0.1	-0.001	0.000	0.002	0.010	0.015	0.019	0.012	0.015	0.022
0.2	-0.003	-0.001	0.002	0.016	0.024	0.031	0.018	0.024	0.037
0.3	-0.005	-0.003	0.002	0.015	0.023	0.033	0.016	0.024	0.039
0.4	-0.009	-0.006	0.000	0.006	0.013	0.023	0.005	0.012	0.028
0.5	-0.012	-0.010	-0.003	-0.009	-0.006	0.003	-0.014	-0.009	0.006
0.6	-0.017	-0.015	-0.007	-0.027	-0.028	-0.023	-0.036	-0.033	-0.023
0.7	-0.019	-0.017	-0.009	-0.042	-0.048	-0.046	-0.055	-0.055	-0.051
0.8	-0.017	-0.016	-0.010	-0.048	-0.056	-0.057	-0.062	-0.064	-0.064
0.9	-0.012	-0.011	-0.007	-0.035	-0.041	-0.043	-0.044	-0.047	-0.049
0	0	0	0	0	0	0	0	0	0
0.1	0.036	0.035	0.025	0.124	0.151	0.162	0.158	0.169	0.189
0.2	0.077	0.077	0.056	0.280	0.342	0.370	0.356	0.383	0.429
0.3	0.114	0.113	0.083	0.413	0.511	0.553	0.529	0.570	0.641
0.4	0.136	0.135	0.099	0.52	0.614	0.667	0.634	0.685	0.771
0.5	0.138	0.137	0.101	0.614	0.629	0.684	0.650	0.703	0.792
0.6	0.120	0.120	0.089	0.452	0.555	0.603	0.573	0.620	0.700
0.7	0.088	0.088	0.065	0.332	0.408	0.444	0.423	0.457	0.518
0.8	0.049	0.049	0.037	0.185	0.228	0.248	0.237	0.256	0.292
0.9	0.015	0.015	0.012	0.057	0.070	0.076	0.073	0.079	0.090
0	0	0	0	0	0	0	0	0	0

Comber for Dead Load Deflection plus vertical curve ± 4 tolerance.
Deflections shown are from a chord from centerline bearing to centerline bearing. Vertical curve corrections not included.
Negative sign (-) indicates point above chord

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

FIELD CONNECTIONS TO BE BOLTED WITH HIGH STRENGTH BOLTS. BOLTS: 3/4" #, OPEN HOLES 13/16" # EXCEPT WHERE NOTED OTHERWISE. BOLT SPACING SHALL BE 2-1/2" UNLESS OTHERWISE NOTED. MINIMUM EDGE DISTANCE SHALL BE 1-1/4" UNLESS NOTED OTHERWISE. BOLTS SHALL BE PLACED WITH HEADS ON THE OUTSIDE FACE OF EXTERIOR GIRDERS AND ON BOTTOM OF GIRDER FLANGES.

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

ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES, CURRENT EDITION.

SHOP PAINT: ALL STRUCTURAL STEEL EXCEPT GALVANIZED MEMBERS, CONTACT SURFACES OF BOLTED CONNECTIONS, AND SURFACES WITHIN 3" OF HOLES AND FIELD WELDS, AND SURFACES IN CONTACT WITH CONCRETE SHALL BE GIVEN ONE PRIME COAT.

FIELD PAINT: AFTER ERECTION ALL EXPOSED STEEL SURFACES WHICH DID NOT RECEIVE A COAT OF SHOP PAINT EXCEPT SURFACES IN CONTACT WITH CONCRETE SHALL BE GIVEN ONE PRIME COAT. TWO ADDITIONAL COATS OF FIELD PAINT SHALL BE APPLIED TO ALL EXPOSED SURFACES. FIRST COAT-RED LEAD TINTED WITH LAMP BLACK; SECOND COAT, SEE SP JOB 6848 "PAINTING OF STEEL STRUCTURES".

BEARINGS SHALL BE FINALLY SEATED IN ACCORDANCE WITH SEC. 807.5I INCLUDING ALTERNATE, OF THE STANDARD SPECIFICATIONS. THIS WORK AND MATERIAL IS TO BE CONSIDERED AS SUBSIDIARY TO THE ITEM OF "STRUCTURAL STEEL" AND WILL NOT BE PAID FOR DIRECTLY. THESE DRAWINGS SHOW GENERAL FEATURES OF DESIGN ONLY. SHOP DRAWINGS SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS, SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN. ANCHOR BOLTS SHALL BE GALVANIZED TO CONFORM TO ASTM SPECIFICATIONS, DESIGNATION A153.

REINFORCING STEEL TO BE ASTM A615, GRADE 40. THE REINFORCING STEEL IS TO BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY STEEL WIRE SUPPORTS, SUFFICIENT IN NUMBER AND SIZE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION. THE WIRE SUPPORTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM OF "REINFORCING STEEL". SHOP LISTS AND BENDING DIAGRAMS OF REINFORCING STEEL, INCLUDING WIRE SUPPORTS, SHALL BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

THE CONTRACTOR, AT HIS OPTION, MAY POUR BRIDGE SLAB CONTINUOUS OVER THE ENTIRE UNIT USING A RETARDING AGENT TO RETARD SET. NOT LESS THAN 72 HOURS SHALL ELAPSE BETWEEN POURING OF SLAB AND THE CURB SECTIONS. IF THE PARAPET IS NOT POURED WITH THE CURB, 72 HOURS SHALL ELAPSE BETWEEN POURING OF CURB AND PARAPET.

ALL CONCRETE SHALL BE POURED AND SCREENED OFF PRIOR TO INITIAL SET. THE CONCRETE DECK SHALL BE FINISHED IN ACCORDANCE WITH SECTION 802.23 OF THE STANDARD SPECIFICATIONS. MOVEMENT OF THE FINISHING MACHINE ACROSS NEW CONCRETE SHALL BE ON PLANKS PLACED ON THE SURFACE AND SHALL BE PROHIBITED FOR 72 HOURS AFTER FINISHING THE POUR.

GIRDER WEBS MAY BE MADE BY SHOP SPLICING WITH MINIMUM LENGTH OF 25'-0" FOR SECTIONS. FLANGE PLATES LONGER THAN 50" MAY BE MADE BY SHOP SPLICING WITH MINIMUM LENGTH OF 25'-0" FOR SECTIONS. NO ADDITIONAL PAYMENT FOR WELDS FOR THESE SPLICES WILL BE MADE.

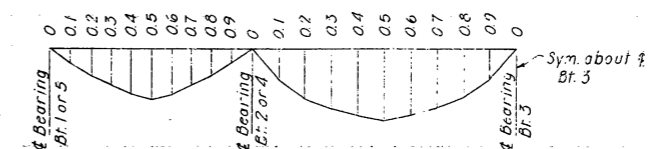
FLANGES NOTED ON GIRDER ELEVATION (SHEET 3) AS HIGH STRENGTH LOW ALLOY COLUMBIUM VANADIUM STEEL, ASTM DESIGNATION A572, GRADE 50 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER POUND BID FOR "STRUCTURAL STEEL IN PLATE GIRDER SPANS A572". ALL OTHER STRUCTURAL STEEL SHALL BE ASTM DESIGNATION A36 AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER POUND BID FOR "STRUCTURAL STEEL IN PLATE GIRDER SPANS A36".

FOR DETAILS OF BRIDGE RAILINGS, SEE DRAWING NO. 13036.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1972, AND APPLICABLE SPECIAL PROVISIONS.

ALL WELDING THAT IS TO BE DONE DURING FABRICATION OF STRUCTURAL STEEL, INCLUDING TEMPORARY WELDS, SHALL BE DETAILED ON THE SHOP DRAWINGS AND SUBMITTED FOR APPROVAL. IF THE CONTRACTOR OR ERECTOR SHOULD WANT TO MAKE ADDITIONAL WELDS, WHETHER TEMPORARY OR PERMANENT, HE SHALL SUBMIT DETAILED DRAWINGS WITH A FORMAL REQUEST TO THE BRIDGE DESIGN DIVISION OF THE ARKANSAS STATE HIGHWAY DEPARTMENT FOR APPROVAL.

ASTM A27, GRADE 70-40 STEEL SHOE CASTINGS SHALL BE PAID FOR AT THE UNIT PRICE PER POUND BID FOR "STRUCTURAL STEEL IN PLATE GIRDER SPANS A36".



DEAD LOAD DEFLECTION

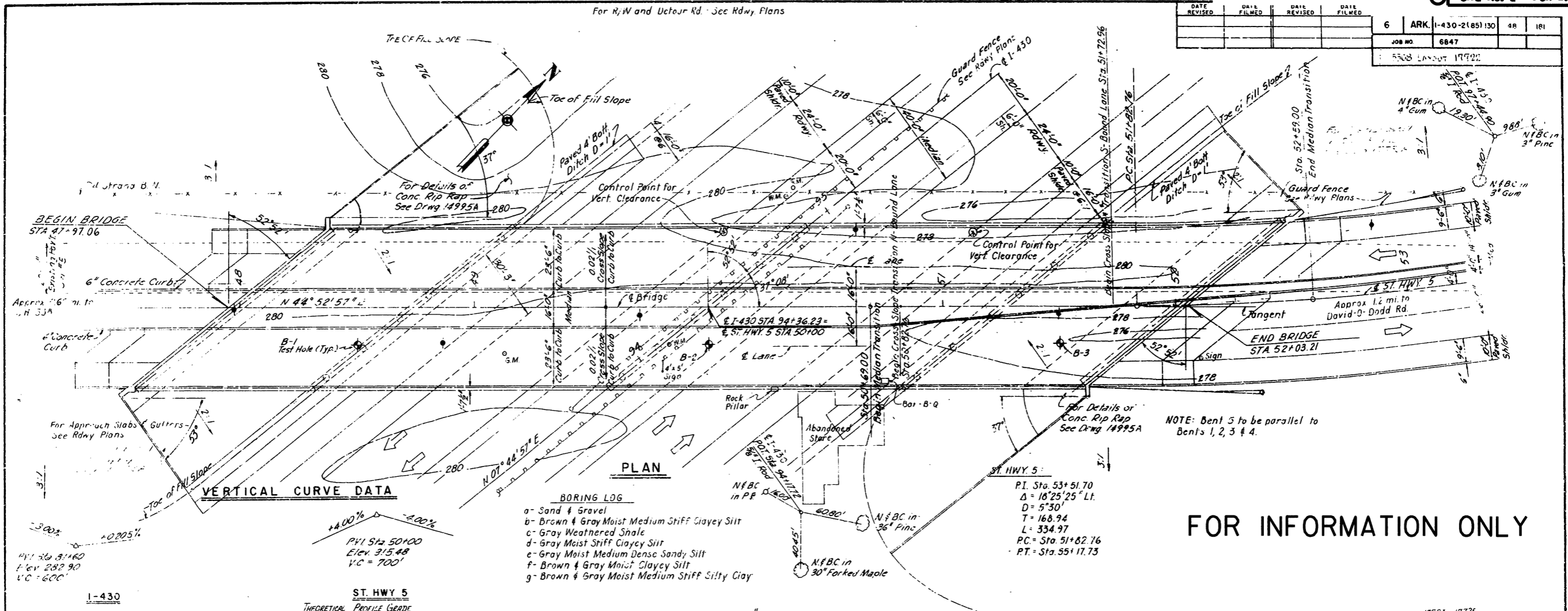
SHEET 6 OF 6
DETAILS OF CONTINUOUS PLATE GIRDER UNIT
NORTH FRONTAGE ROAD
JCT. I-30 - FOURCHE CREEK
PULASKI COUNTY
INT. ROUTE 430 SEC. 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: H. May DATE: 11-30-72
TRACED BY: DATE: SCALE: No Scale
CHECKED BY: JAS DATE: 12-7-72
BRIDGE NO. 5504 DRAWING NO. 17946

FOR INFORMATION ONLY

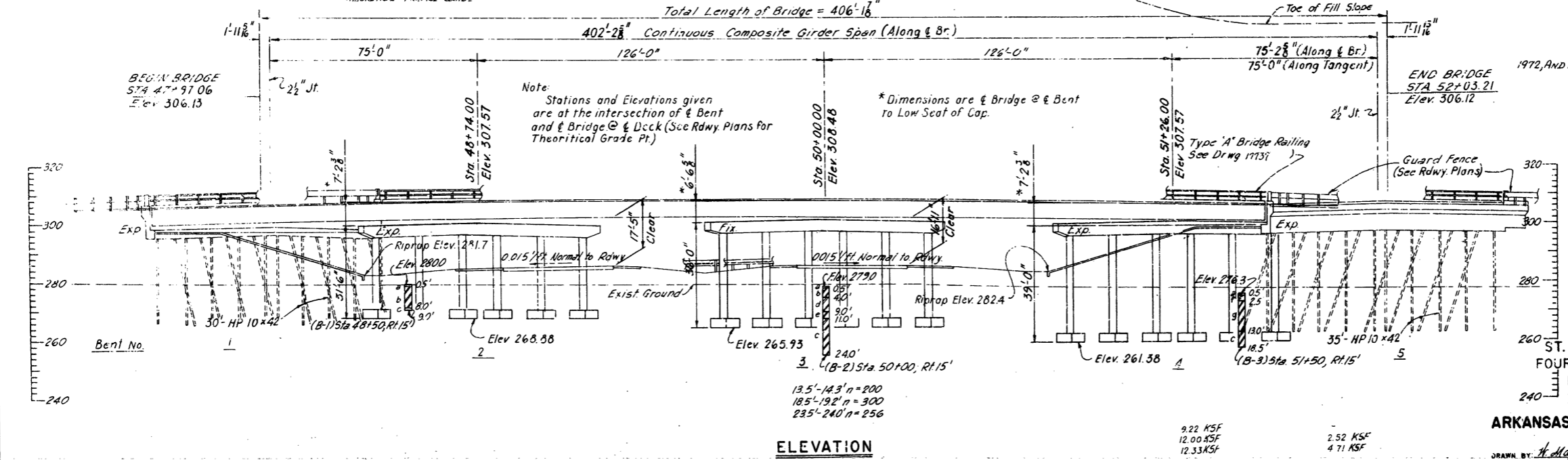
Vern Anderson
BRIDGE ENGINEER

DATE REVISION	DATE FILED	DATE REVISION	DATE FILED	FILED BY	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	I-430-2(85)130	4R	181
				JOB NO.	6847			
				JOB NO.	06505	22	56	

① SITE NO. 2 - FOR INFORMATION ONLY



FOR INFORMATION ONLY



LAYOUT
 ST. HWY. 5 INTERCHANGE
 FOURCREEK - COL. GLENN ROAD
 PULASKI COUNTY
 I-430 SEC. I

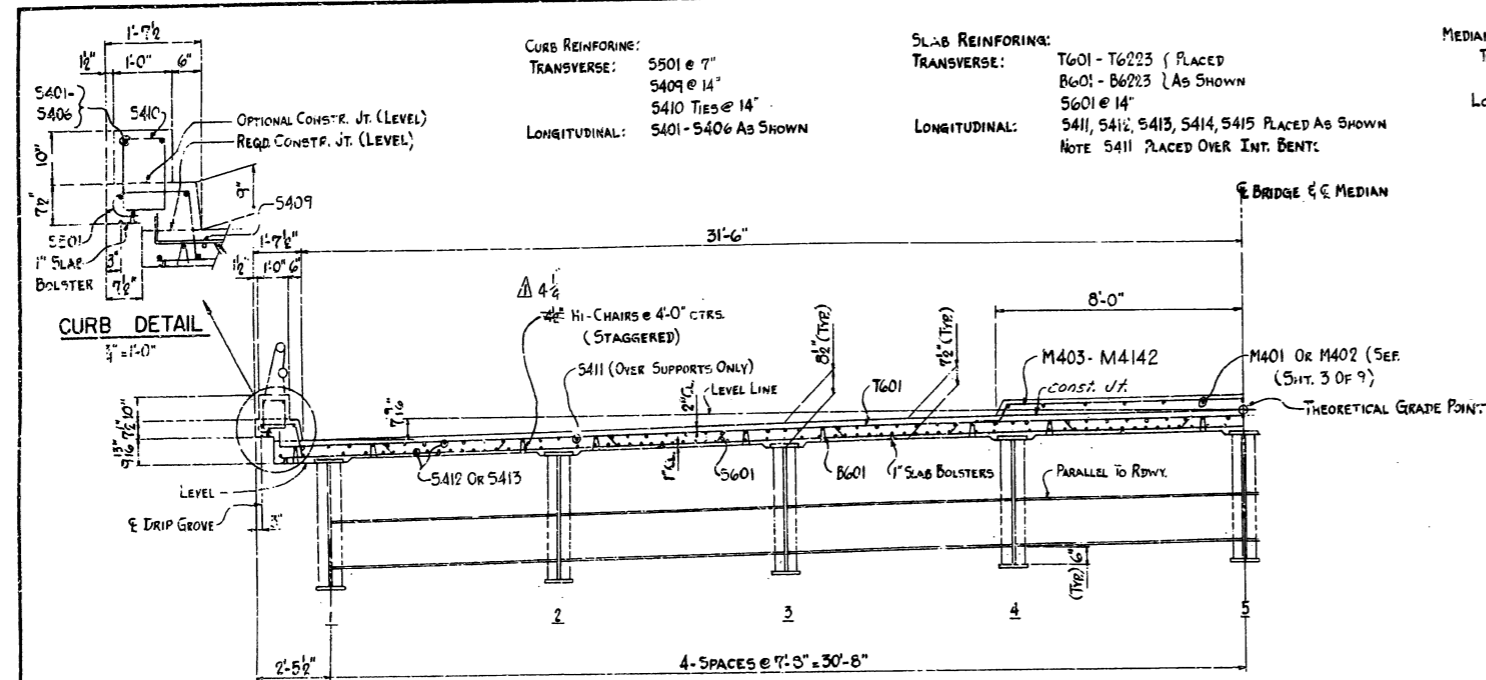
ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DATE: 2-17-72
 DATE: 3-2-72

BRIDGE NO. 5308
 DRAWING NO. 17722

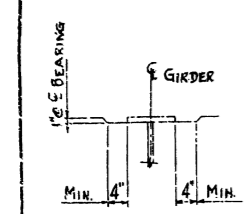
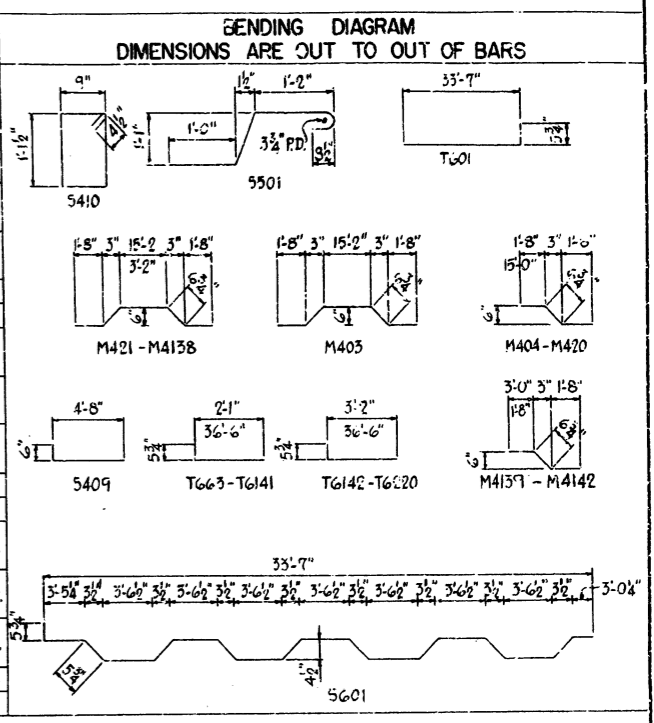
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	7-430-2 (85) L.O.	5	17
				JOB NO.	06505		23	56
(1) SITE NO. 2 - FOR INFORMATION ONLY								

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1-12-73	5/11-73			6	ARK.	7-430-2 (85) L.O.	5	17
				JOB NO.	6847			
(1) 5308 SPAN DETAILS 17732								

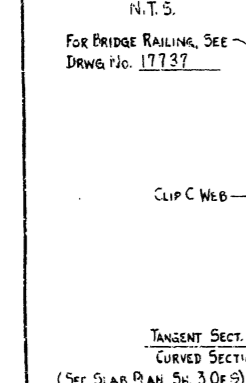


HALF ROADWAY AT MID-SPAN
SHOWN FOR TANGENT SECTION
SECTION IN TRANSITION SIMILAR
3/8" = 1'-0"

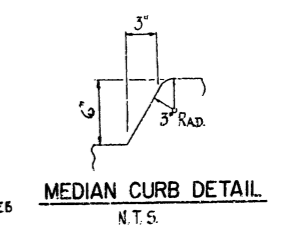
MARK	NO. REQD.	LENGTH	PIN DIA.	MARK	NO. REQD.	LENGTH	PIN DIA.
5601	546	34'-11"	3 1/2"	M401	133	40'-0"	STR.
5602	16	10'-0"	STR.	M402	5	20'-0"	STR.
				M403	222	19'-6"	2"
				M404	1-EA.	3'-10"	2"
				M420	1-EA.	17'-2"	2"
5501	1382	3'-11"	2 1/2"	M421	6	19'-6"	2"
5401	6	12'-10"	STR.	M413B	1-EA.	7'-6"	2"
5402	13	22'-10"	STR.	M413F	1-EA.	5'-2"	2"
5403	32	23'-3"	STR.	M4142	1-EA.	3'-10"	2"
5404	2	15'-2"	STR.				
5405	16	18'-8 1/2"	STR.	T601	670	33'-11"	3 1/2"
5406	8	15'-0"	STR.	T602	2-EA.	6'-3"	STR.
5407	1	25'-1"	STR.	T662	2-EA.	32'-9"	STR.
5408	1	8'-4"	STR.	T663	2-EA.	2'-5"	2"
5409	691	5'-1"	2"	T6141	1-EA.	36'-10"	3 1/2"
5410	710	4'-3"	2"	T6142	1-EA.	36'-10"	3 1/2"
5411	150	40'-0"	STR.				
5412	1890	40'-0"	STR.				
5413	189	18'-6"	STR.				
5414	8	40'-0"	STR.	B601	670	33'-7"	STR.
5415	4	29'-3"	STR.	B602	2-EA.	6'-3"	STR.
				B662	2-EA.	32'-9"	STR.
				B663	1-EA.	2'-1"	STR.
				B6141	1-EA.	36'-6"	STR.
				B6142	1-EA.	36'-6"	STR.
				B6223	1-EA.	3'-2"	STR.



HAUNCH DETAIL
N.T.S.



ROADWAY SECTION AT END SPAN
3/8" = 1'-0"



MEDIAN CURB DETAIL
N.T.S.

NOTES:

ALL GIRDERS SHALL BE BLOCKED IN THEIR TRUE POSITION, WITH WEB PLATES HORIZONTAL, IN THE SHOP TO FORM EACH COMPLETE UNIT. THE CAMBER, LENGTH OF SECTIONS, DISTANCE BETWEEN BEARINGS AND OPENING OF JOINTS SHALL BE MEASURED WITH THE BEAMS IN THIS POSITION AND THIS INFORMATION SHALL BECOME A PART OF THE PERMANENT RECORD OF THIS JOB. THE COMPONENT PARTS SHALL BE MATCH MARKED IN THIS ASSEMBLY AND THESE MARKS SHALL BE SHOWN ON THE ERECTION DIAGRAM. ALL GIRDER DIMENSIONS ARE BASED ON A TEMPERATURE OF 60°F. A TOLERANCE OF ± 1/4" IS ALLOWED FOR CAMBER.

DIAPHRAGMS AT BEARING STIFFENERS SHALL BE INSTALLED AS GIRDERS ARE ERECTED. ALL DIAPHRAGMS SHALL BE INSTALLED AND COMPLETELY BOLTED PRIOR TO POURING OF FLOOR SLABS.

UNIT STRESSES:

CLASS (A/E) CONCRETE (N=10)	1,200 PSI
REINFORCING STEEL	20,000 PSI
STRUCTURAL STEEL (A36)	20,000 PSI
STRUCTURAL STEEL (A572, GRADE 50)	27,000 PSI

DESIGN SPECIFICATIONS - AASHO 1969 AND INTERIM SPECIFICATIONS

DESIGN LIVE LOAD - HS20

LOAD DISTRIBUTION

EXT. GIRDER	726 PLF	311 PLF	1,2957 WHEELS + IMPACT
INT. GIRDER	889 PLF	311 PLF	1,3939 WHEELS + IMPACT

DEAD LOAD TO GIRDER (INCLUDES 162 PLF FOR WEIGHT OF GIRDER)

DEAD LOAD TO COMP. GIRDER (INCLUDES 164 PLF FOR WEIGHT OF FUTURE SURFACES)

△ Revised - Changed 1/2" Hi-Chairs to 1/4"
Changed 5405, B6141 & B6223
As Shown, LDF 1-12-73

FOR INFORMATION ONLY
SHEET 4 OF 9
DETAILS OF CONTINUOUS WELDED
PLATE GIRDER UNIT
STATE HWY 5 INTERCHANGE
FOURCHE CREEK - COL GLENN ROAD
PULASKI COUNTY
ROUTE 1-430 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.S. DATE: 2-9-72
CHECKED BY: J.C.K. DATE: 3-20-72
SCALE: As Shown

BRIDGE NO. 5308 DRAWING NO. 17732

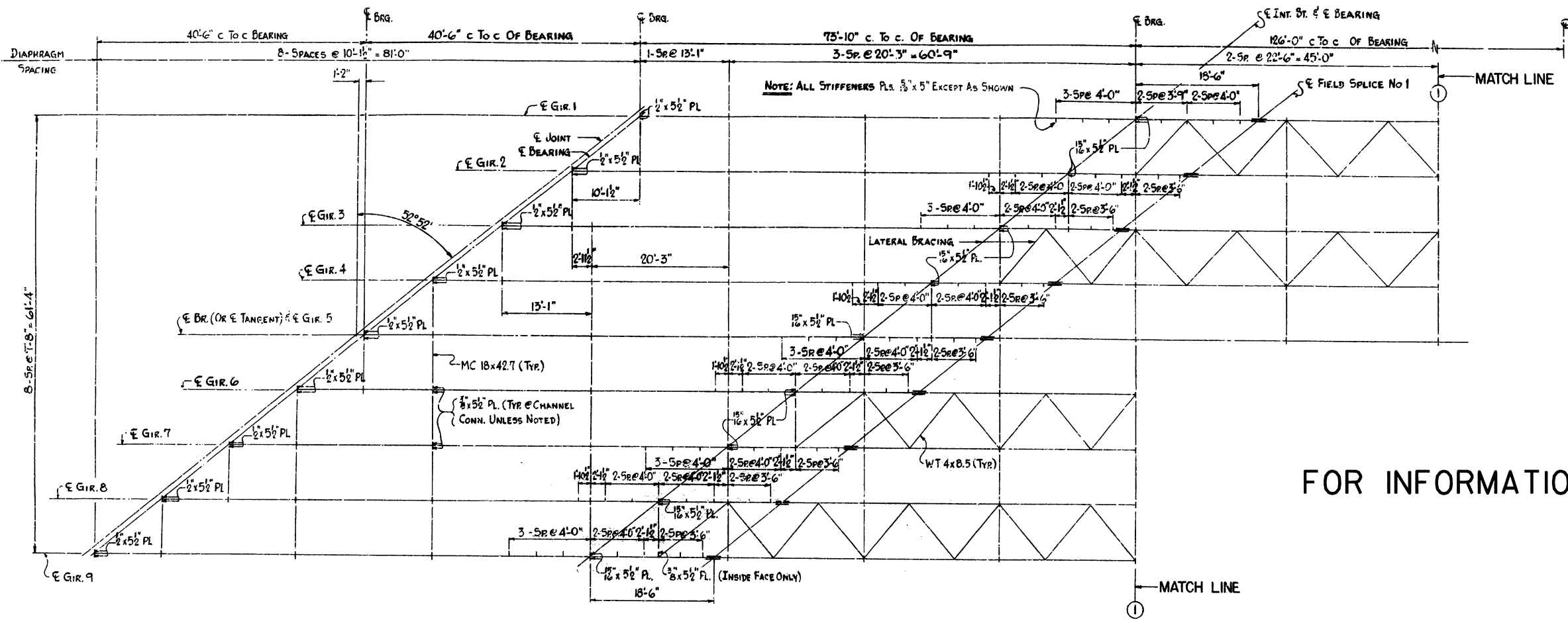
Vernon Pemberton
BRIDGE ENGINEER

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	1-430-2 (85)110	24	56

① SITE NO. 2 - FOR INFORMATION ONLY

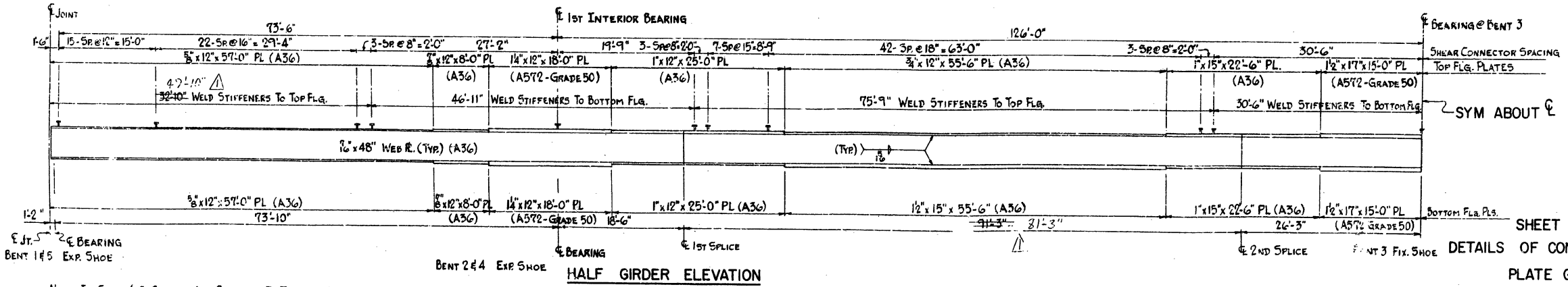
DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	PRCAL. YEAR	SHEET NO.	TOTAL SHEETS
5-9-73	7-9-73			6	ARK.	1-430-2 (85)110		24	56

① 5308 SPAN DETAILS 17733



FOR INFORMATION ONLY

PART FRAMING PLAN



HALF GIRDER ELEVATION

SHEET 5 OF 9

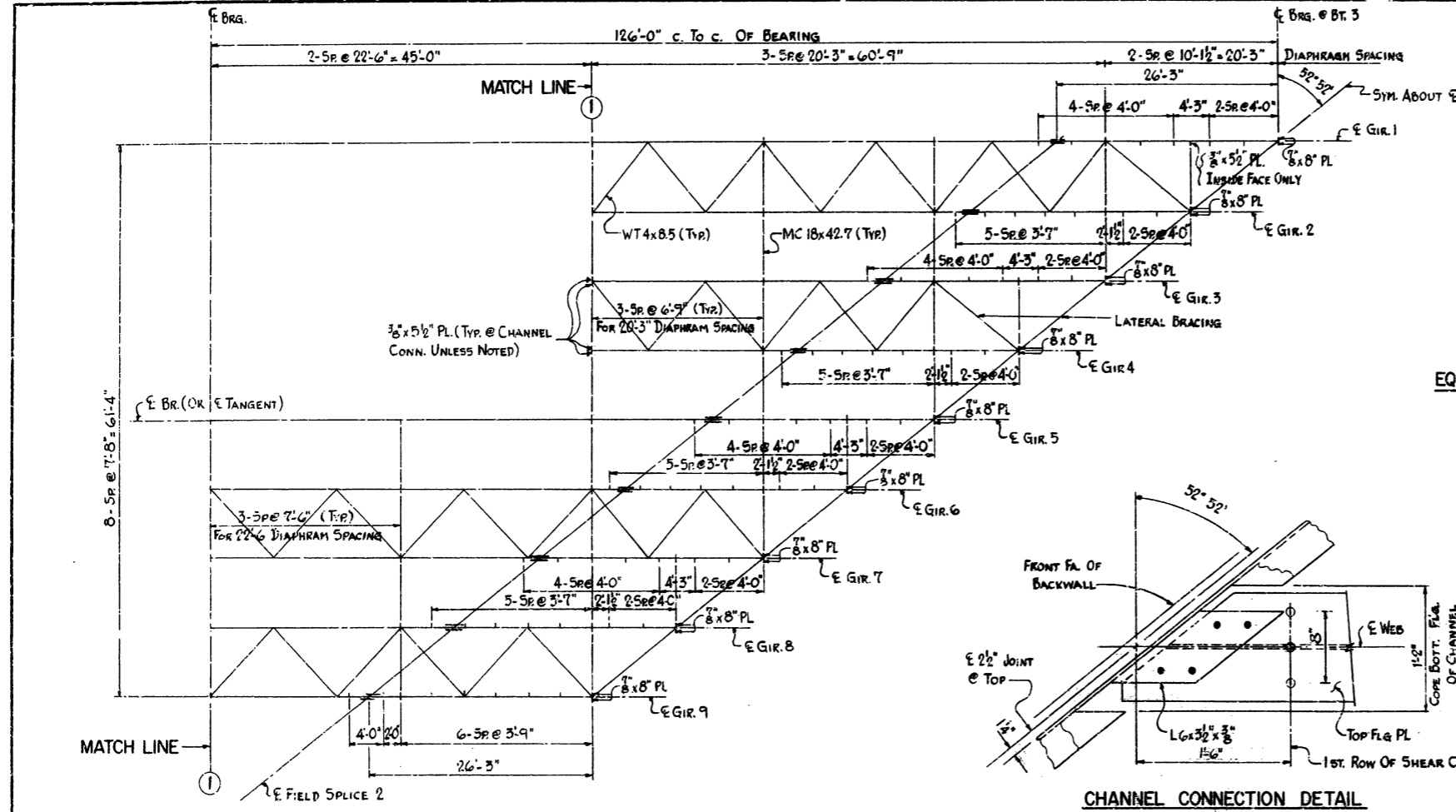
DETAILS OF CONTINUOUS WELDED PLATE GIRDER UNIT
 STATE HWY. 5 INTERCHANGE
 FOURCHE CREEK - COL. GLENN ROAD
 PULASKI COUNTY
 ROUTE 1-430 SEC. 1
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

Revised - Changed 9'-3" To 11'-3" & 32'-10" To 47'-10" AS SHOWN 5-9-73 LDF

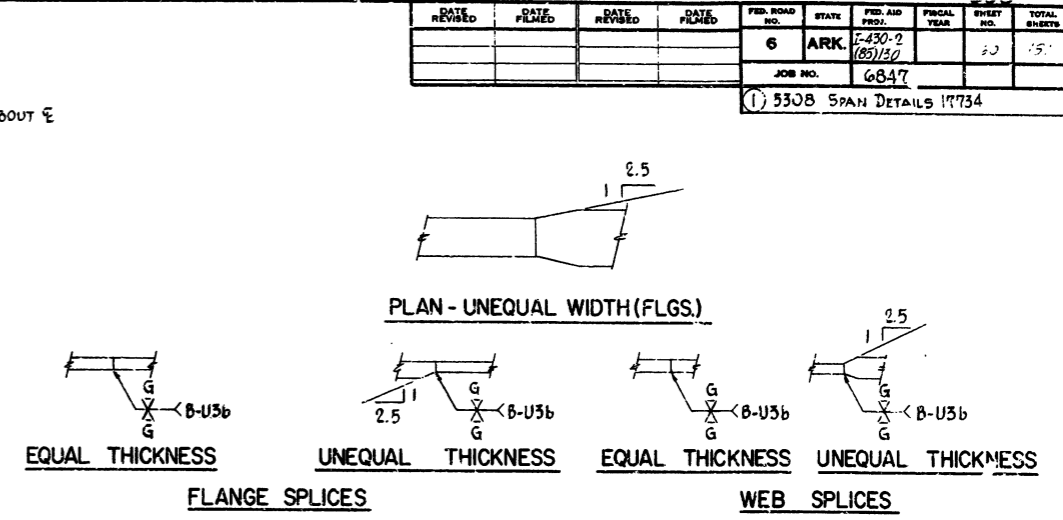
DRAWN BY: D.S. DATE: 2-7-72
 CHECKED BY: J.K.K. DATE: 3-20-72
 SCALE: 1/8" = 1'-0"
 BRIDGE NO. 5308 DRAWING NO. 17733

Wesley R. Denton
 BRIDGE ENGINEER

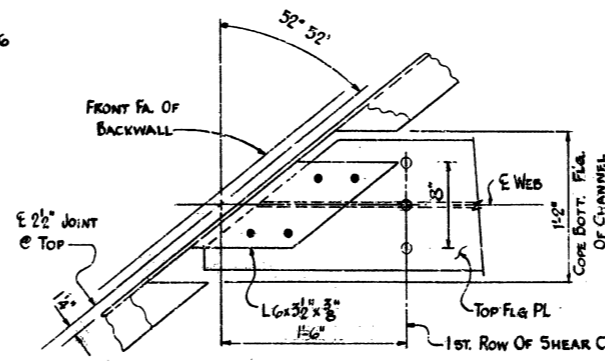
DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	1-430-2 (85)150	25	56
				JOB NO. 6847		SITE NO. 2 - FOR INFORMATION ONLY		



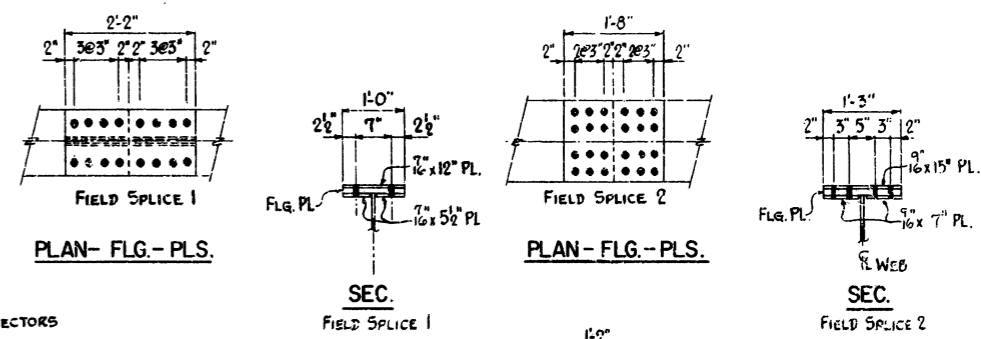
PART FRAMING PLAN
1/8" = 1'-0"



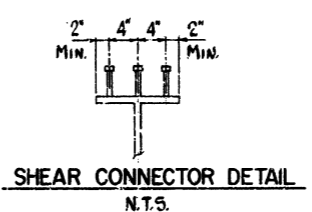
FLANGE SPLICES
BUTT WELD DETAILS
N.T.S.



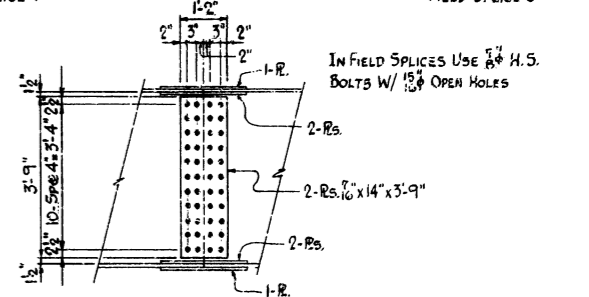
CHANNEL CONNECTION DETAIL
1/2" = 1'-0"



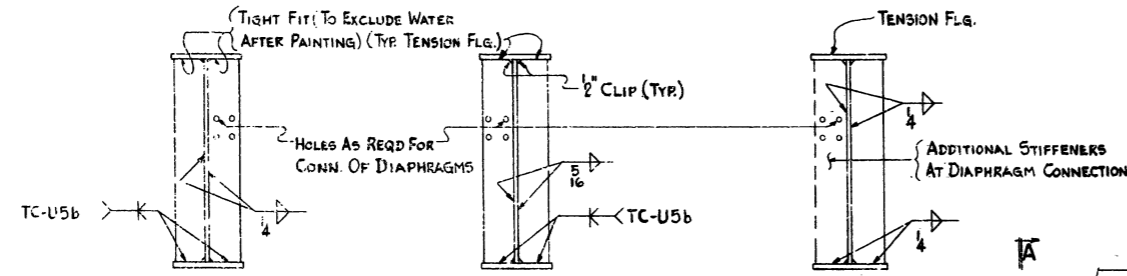
PLAN-FLG.-PLS.
SEC. FIELD SPLICE 1
SEC. FIELD SPLICE 2



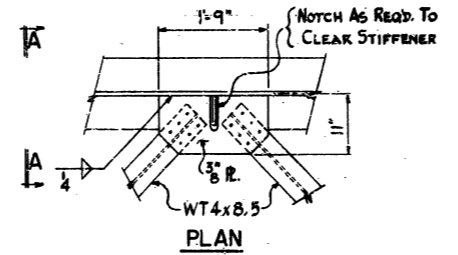
SHEAR CONNECTOR DETAIL
N.T.S.



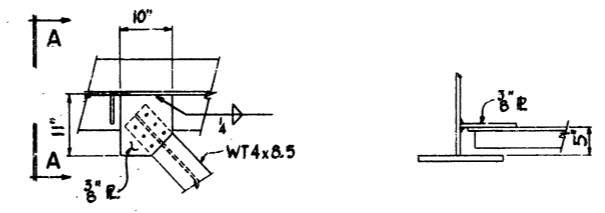
ELEVATION FIELD SPLICE (TYP.)



BEARING STIFFENERS AT END BENTS N.T.S.
BEARING STIFFENERS AT INT. BENTS N.T.S.
INTERMEDIATE STIFFENERS N.T.S.



PLAN



SECTION A-A
LATERAL CONNECTIONS N.T.S.

STUD SHEAR CONNECTORS SHOWN SHALL BE 5" LONG, GRANULAR FLUX FILLED, SOLID FLUXED OR EQUAL, AND AUTOMATICALLY END WELDED TO GIRDER FLANGES IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER. 7/8" DIAMETER STUDS MAY BE SUBSTITUTED FOR THE 3/4" DIAMETER STUDS SHOWN AT THE RATIO OF 0.73 - 7/8" STUDS IN PLACE OF 1 - 3/4" STUDS. THE 3/4" STUDS SHALL BE USED AS THE BASIS OF PAYMENT OF 74.0 LBS. PER ONE HUNDRED STUDS.

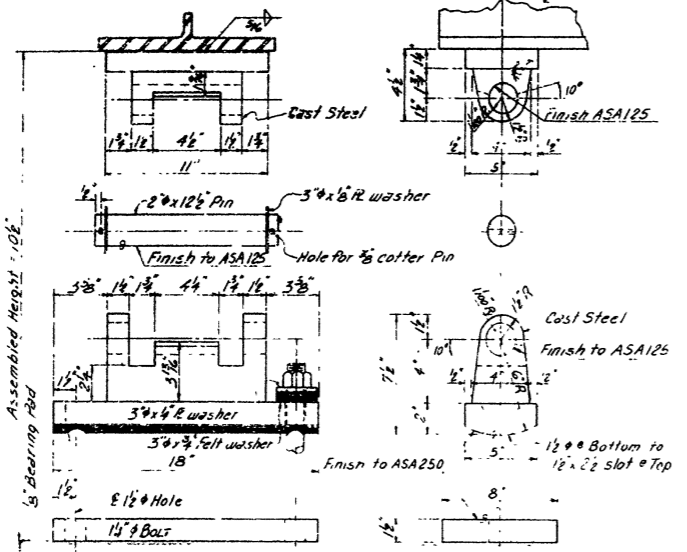
FOR INFORMATION ONLY

SHEET 6 OF 9
 DETAILS OF CONTINUOUS WELDED
 PLATE GIRDER UNIT
 STATE HWY. 5 INTERCHANGE
 FOURCHE CREEK - COL. GLENN ROAD
 PULASKI COUNTY
 ROUTE I-430 SEC. 1
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: D.S. DATE: 2-8-72
 TRACED BY: JCK DATE: 3-20-72
 CHECKED BY: JCK DATE: 3-20-72
 SCALE: 3/4" = 1'-0" OR AS SHD.
 BRIDGE NO. 5308 DRAWING NO. 17734

Neal Dinkster
 BRIDGE ENGINEER

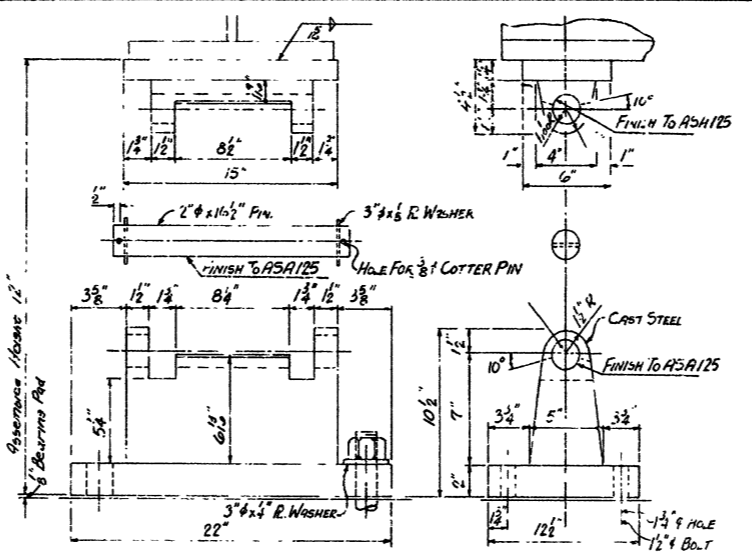
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	06505	26
						SITE NO. 2 - FOR INFORMATION ONLY		

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.	1-252-2		
						JOB NO.	06505	26



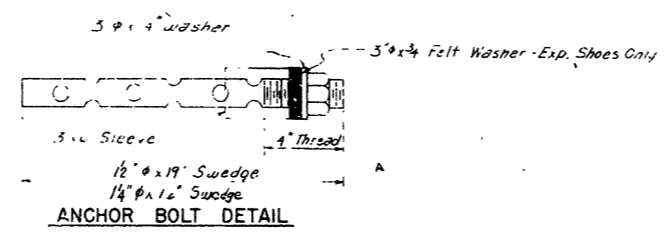
BENT 1 & 5 EXPANSION SHOE

Material: Steel Castings ASTM A27 Grade 70-40, R ASTM A-36

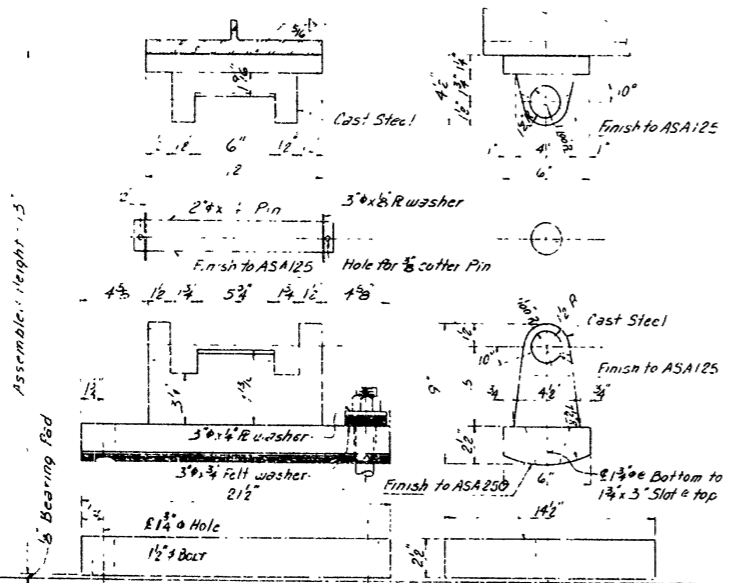


BENT 3 FIXED SHOE

MATERIAL

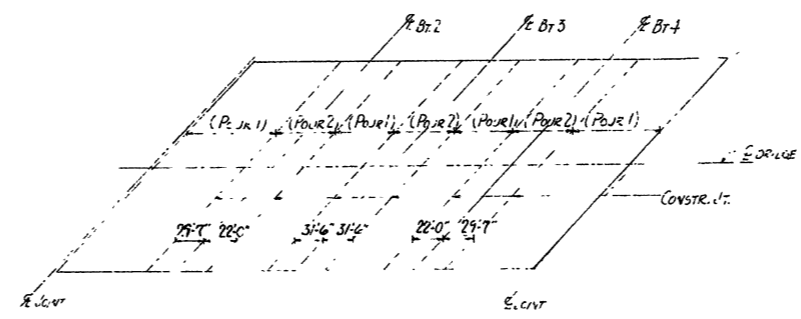


ANCHOR BOLT DETAIL



BENT 2 & 4 EXPANSION SHOE

Material: Steel Castings ASTM A27 Grade 70-40, R ASTM A-36



SLAB POURING SEQUENCE

ADJACENT JOINTS SHALL BE PLACED BEFORE POURING CAN BE PLACED. JOINTS SHALL ELAPSE BETWEEN POURS (1) AND (2). SHALL ELAPSE BETWEEN ADJACENT POURS (1) AND (2).

GENERAL NOTES:

ALL CONCRETE TO BE CLASS (A)E. ALL EXPOSED CORNERS TO BE CHAMFERED 1/4" UNLESS OTHERW. NOTED.
FIELD CONNECTIONS TO BE BOLTED WITH HIGH STRENGTH BOLTS. BOLTS SHALL BE 1/2" UNLESS OTHERW. NOTED. BOLT SPACING SHALL BE 2 1/2" UNLESS OTHERW. NOTED. BOLTS SHALL BE 1 1/4" UNLESS NOTED OTHERWISE. BOLTS SHALL BE PLACED 1/4" FROM END OF MEMBER.
EXTERIOR GIRDERS AND ON BOTTOM OF GIRDER FLANGES.

STRUCTURAL SHAPES OF EQUAL OR GREATER STRENGTH SHALL BE USED IN PLACE OF THOSE SHOWN UNLESS OTHERWISE NOTED. THIS SHALL BE ON THE BASIS OF EQUAL OR GREATER STRENGTH.

ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATION FOR STRUCTURAL STEEL WELDING. WELDING SHALL BE TO THE FULL PENETRATION BUTT JOINT TYPE UNLESS OTHERWISE NOTED.

ALL STRUCTURAL STEEL EXCEPT GIRDERS SHALL BE FINISHED TO ASA125. ALL SURFACES INCLUDING HOLES AND FIELD JOINTS SHALL BE PRIME COATED.

FIELD PAINT AFTER CREATION ALL EXPOSED STEEL SURFACES EXCEPT SURFACES IN CONTACT WITH CONCRETE SHALL BE PRIME COATED. ADDITIONAL COATS OF FIELD PAINT SHALL BE APPLIED AS REQUIRED TO MAINTAIN A MINIMUM OF 90% COVERAGE.

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. ALL REINFORCING STEEL SHALL BE FULLY DEVELOPED. ALL REINFORCING STEEL SHALL BE FULLY DEVELOPED. ALL REINFORCING STEEL SHALL BE FULLY DEVELOPED. ALL REINFORCING STEEL SHALL BE FULLY DEVELOPED.

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FOR INFORMATION ONLY

SHEET 7 OF 9
 DETAILS OF CONTINUOUS WELDED
 PLATE GIRDER UNIT
 STATE HWY INTERCHANGE
 FOURCHE CREEK - COL. GLENN ROAD
 PULASKI COUNTY
 ROUTE I-430 SEC. 1
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DRAWN BY: [Signature] DATE: 11/28/72
 CHECKED BY: [Signature] DATE: [Blank]
 BRIDGE NO. 5308 DRAWING NO. 17735