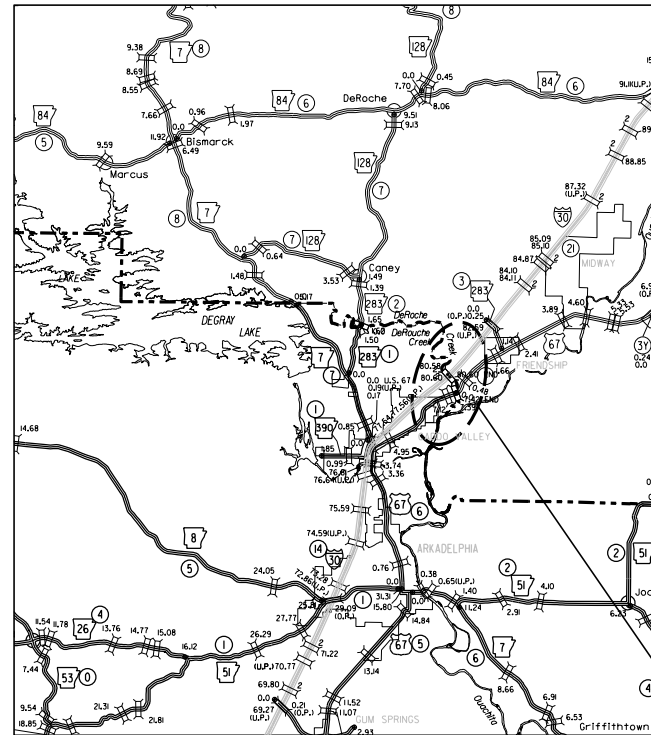


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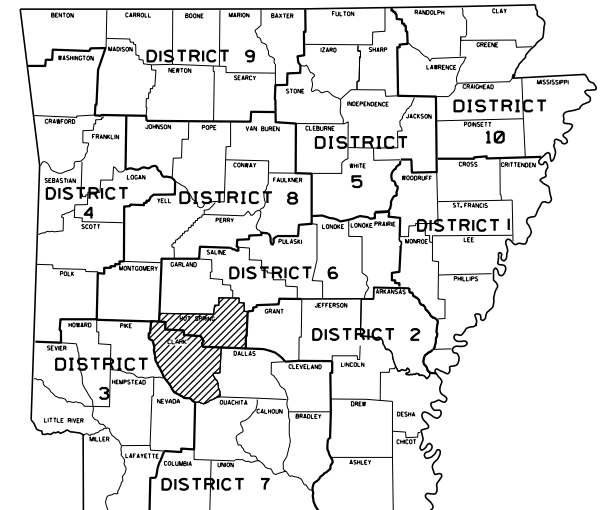
VICINITY MAP

PROJECT
LOCATION

"A FULLY CONTROLLED ACCESS FACILITY"
ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS

DE ROCHE CREEK STRS. & APPRS.(S)
CLARK AND HOT SPRING COUNTIES
ROUTE 30 SECTIONS 14 & 21
FED. AID PROJ. NHPP-1030(3)
JOB 012307

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 012307	I	68
						DE ROCHE CREEK STRS. & APPRS.(S)		



ARKANSAS HIGHWAY DIST. 6 & 7

• DESIGN TRAFFIC DATA •

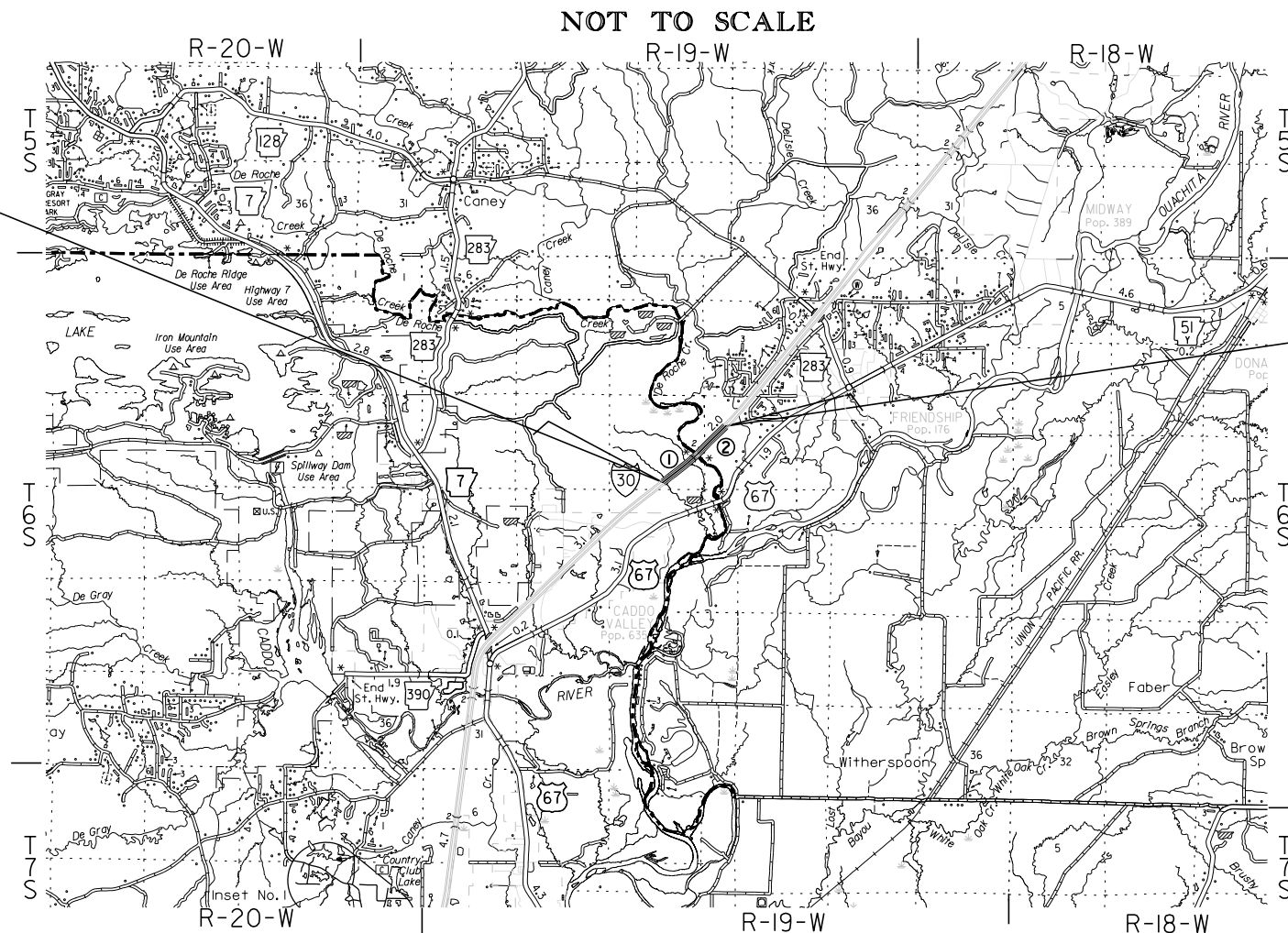
DESIGN YEAR-----2039
2019 ADT-----29,000
2039 ADT-----35,000
2039 DHV-----3850
DIRECTIONAL DISTRIBUTION-----0.60
TRUCKS-----53%
DESIGN SPEED-----70 MPH

STA. 4388+00.00
BEGIN JOB 012307
LOG MILE 80.50

STA. 4397+50.00
END JOB 012307

BRIDGE CONSTRUCTION DATA

- ① STA. 4392+12.73 BRIDGE END
BRIDGE NO. A7427 OVER DE ROCHE CREEK
170'-0" COMPOSITE PLATE GIRDER SPAN (ON CHORDS)
56'-0" CLEAR ROADWAY
170'-6 1/2" BRIDGE LENGTH
STA. 4393+83.27 BRIDGE END
- ② STA. 4392+13.27 BRIDGE END
BRIDGE NO. B7427 OVER DE ROCHE CREEK
170'-0" COMPOSITE PLATE GIRDER SPAN (ON CHORDS)
56'-0" CLEAR ROADWAY
169'-5 1/2" BRIDGE LENGTH
STA. 4393+82.73 BRIDGE END



LENGTH OF PROJECT CALCULATED ALONG C.L. OF MEDIAN			
GROSS LENGTH OF PROJECT	950.00	FEET	0.180 MILES
NET LENGTH OF ROADWAY	780.00	FEET	0.148 MILES
NET LENGTH OF BRIDGES	170.00	FEET	0.032 MILES
NET LENGTH OF PROJECT	950.00	FEET	0.180 MILES

P.E. JOB 012307



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				6	ARK.			
				JOB NO.		012307	2	68

2 INDEX OF SHEETS & STANDARD DRAWINGS



INDEX OF SHEETS

SHEET NO.	TITLE	BRIDGE NO.	DRWG.NO.
1	TITLE SHEET		
2	INDEX OF SHEETS AND STANDARD DRAWINGS		
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES		
4	TYPICAL SECTIONS OF IMPROVEMENT		
5 - 7	SPECIAL DETAILS		
8 - 10	TEMPORARY EROSION CONTROL DETAILS		
11 - 25	MAINTENANCE OF TRAFFIC DETAILS		
26	PERMANENT PAVEMENT MARKING DETAILS		
27	SOIL BORINGS		
28 - 30	QUANTITIES		
31	SCHEDULE OF BRIDGE QUANTITIES	A&B 7427	60302
32	SUMMARY OF QUANTITIES AND REVISIONS		
33 - 37	SURVEY CONTROL DETAILS		
38 - 40	PLAN AND PROFILE SHEETS		
41	LAYOUT OF BRIDGES - INTERSTATE 30 OVER DE ROCHE CREEK (SHEET 1 OF 4)	A7427	60303
42	LAYOUT OF BRIDGES - INTERSTATE 30 OVER DE ROCHE CREEK (SHEET 2 OF 4)	B7427	60304
43	LAYOUT OF BRIDGES - INTERSTATE 30 OVER DE ROCHE CREEK (SHEET 3 OF 4)	A&B 7427	60305
44	LAYOUT OF BRIDGES - INTERSTATE 30 OVER DE ROCHE CREEK (SHEET 4 OF 4)	A&B 7427	60306
45	PROPOSED CONSTRUCTION SEQUENCE - INTERSTATE 30 OVER DE ROCHE CREEK	A&B 7427	60307
46	END BENT DETAILS (SHEET 1 OF 5)	A&B 7427	60308
47	END BENT DETAILS (SHEET 2 OF 5)	A&B 7427	60309
48	END BENT DETAILS (SHEET 3 OF 5)	A&B 7427	60310
49	END BENT DETAILS (SHEET 4 OF 5)	A&B 7427	60311
50	END BENT DETAILS (SHEET 5 OF 5)	A&B 7427	60312
51	DETAILS OF ELASTOMERIC BEARINGS	A&B 7427	60313
52	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 1 OF 9)	A&B 7427	60314
53	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 2 OF 9)	A&B 7427	60315
54	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 3 OF 9)	A&B 7427	60316
55	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 4 OF 9)	A&B 7427	60317
56	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 5 OF 9)	A&B 7427	60318
57	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 6 OF 9)	A&B 7427	60319
58	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 7 OF 9)	A&B 7427	60320
59	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 8 OF 9)	A&B 7427	60321
60	DETAILS OF 170'- 0" COMPOSITE PLATE GIRDER SPAN (SHEET 9 OF 9)	A&B 7427	60322
61	DETAILS OF TYPE SPECIAL APPROACH SLAB & GUTTER (SHEET 1 OF 3)	A&B 7427	60323
62	DETAILS OF TYPE SPECIAL APPROACH SLAB & GUTTER (SHEET 2 OF 3)	A&B 7427	60324
63	DETAILS OF TYPE SPECIAL APPROACH SLAB & GUTTER (SHEET 3 OF 3)	A&B 7427	60325
64 - 68	CROSS SECTIONS		

BRIDGE STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
55000	STANDARD DETAILS FOR EMBANKMENT CONSTRUCTION AND BACKFILL AT BRIDGE ENDS	02-27-14
55001	STANDARD DETAILS FOR DUMPED RIPRAP AND FILTER BLANKET AND COMPUTING EXCAVATION FOR STRUCTURES	02-27-14
55005	STANDARD DETAILS FOR PERMANENT STEEL BRIDGE DECK FORMS FOR STEEL & CONCRETE GIRDER SPANS	03-24-16
55006	STANDARD GENERAL NOTES FOR STEEL BRIDGE STRUCTURES	09-02-15
55007	STANDARD DETAILS FOR STEEL BRIDGE STRUCTURES	02-11-16
55010	STANDARD DETAILS FOR TYPE D BRIDGE NAME PLATE	01-15-19
55020	STANDARD DETAILS FOR STEEL H-PILES AND PILE ENCASEMENTS	03-24-16

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH PAVING	12-08-16
FPC-9D	DETAILS OF DROP INLETS	08-22-02
GR-8	GUARD RAIL DETAILS	11-16-17
GR-9	GUARD RAIL DETAILS	04-17-08
GR-9A	GUARD RAIL DETAILS	04-17-08
GR-10	GUARD RAIL DETAILS	11-16-17
GR-11	GUARD RAIL DETAILS	11-16-17
GR-12	GUARD RAIL DETAILS	11-16-17
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCM-1	METAL PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PCP-1	PLASTIC PIPE CULVERT (HIGH DENSITY POLYETHYLENE)	02-27-14
PCP-2	PLASTIC PIPE CULVERT (PVC F949)	02-27-14
PM-1	PAVEMENT MARKING DETAILS	06-01-17
PM-2	PERMANENT PAVEMENT MARKING ON ACCESS CONTROLLED ROADWAYS	12-08-16
SE-1	TABLES AND METHOD OF SUPERELEVATION FOR ONE-WAY TRAFFIC	01-09-87
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-13-17
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	02-27-14
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	10-15-09
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
TEC-4	TEMPORARY EROSION CONTROL DEVICES	07-26-12
WF-4	WIRE FENCE TYPE C AND D	08-22-02

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

2 GOVERNING SPECIFICATIONS & GENERAL NOTES

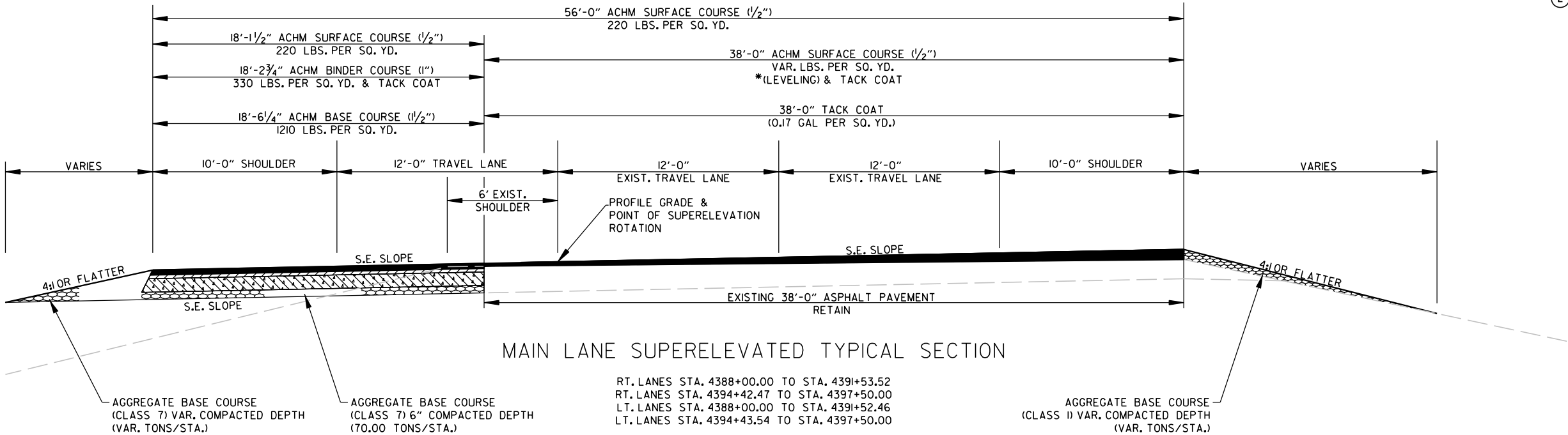


- | NUMBER | TITLE |
|------------|---|
| ERRATA | ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS |
| FHWA-1273 | REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS |
| FHWA-1273 | SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS |
| FHWA-1273 | SUPPLEMENT - SPECIFIC EQUAL 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 - TRAINING PROGRAM - JOB 012307 |
| 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 |
| 108-1 | LIQUIDATED DAMAGES |
| 108-2 | WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER |
| 110-1 | PROTECTION OF WATER QUALITY AND WETLANDS |
| 303-1 | AGGREGATE BASE COURSE |
| 306-1 | QUALITY CONTROL AND ACCEPTANCE |
| 400-1 | TACK COATS |
| 400-4 | DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES |
| 400-5 | PERCENT AIR VOIDS FOR ACHM MIX DESIGNS |
| 400-6 | LIQUID ANTI-STRIP ADDITIVE |
| 410-1 | CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES |
| 410-2 | DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS |
| 600-2 | INCIDENTAL CONSTRUCTION |
| 604-1 | RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES |
| 605-1 | CONCRETE DITCH PAVING |
| 617-1 | GUARDRAIL TERMINAL (TYPE 2) |
| 620-1 | MULCH COVER |
| 621-1 | FILTER SOCKS |
| 800-1 | STRUCTURES |
| 802-3 | CONCRETE FOR STRUCTURES |
| 808-1 | INSTALLATION OF ELASTOMERIC BEARINGS |
| 808-2 | ELASTOMERIC BEARINGS |
| JOB 012307 | ASSESSMENT OF WORKING DAYS - MAINTENANCE OF TRAFFIC |
| JOB 012307 | AUTOMATED WORK ZONE INFORMATION SYSTEM |
| JOB 012307 | BIDDING REQUIREMENTS AND CONDITIONS |
| JOB 012307 | BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT |
| JOB 012307 | BROADBAND INTERNET SERVICE FOR FIELD OFFICE |
| JOB 012307 | CARGO PREFERENCE ACT REQUIREMENTS |
| JOB 012307 | CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE |
| JOB 012307 | CONCRETE DITCH PAVING |
| JOB 012307 | CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS |
| JOB 012307 | CONSTRUCTION PROJECT INFORMATION SIGN |
| JOB 012307 | DESIGNATED PARKING AND VIEWING AREAS |
| JOB 012307 | DIRECT TENSION INDICATORS FOR HIGH STRENGTH BOLT ASSEMBLIES |
| JOB 012307 | DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES |
| JOB 012307 | DRILLED SHAFT FOUNDATIONS |
| JOB 012307 | ENHANCED THERMOPLASTIC PAVEMENT MARKING |
| JOB 012307 | EXTENSION FOR PIPE CULVERTS |
| JOB 012307 | FLEXIBLE BEGINNING OF WORK - CALENDAR DAY CONTRACT |
| JOB 012307 | GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION |
| JOB 012307 | LATERAL BRIDGE SLIDE |
| JOB 012307 | MAINTENANCE OF TRAFFIC |
| JOB 012307 | MANDATORY ELECTRONIC CONTRACT |
| JOB 012307 | MANDATORY ELECTRONIC DOCUMENT SUBMITTAL |
| JOB 012307 | MODULAR GLARE SHIELD |
| JOB 012307 | NESTING SITES OF MIGRATORY BIRDS |
| JOB 012307 | NONDESTRUCTIVE TESTING OF DRILLED SHAFTS |
| JOB 012307 | OFF-SITE RESTRAINING CONDITIONS FOR NORTHERN LONG-EARED BATS |
| JOB 012307 | PARTNERING REQUIREMENTS |
| JOB 012307 | PERCENT WITHIN LIMITS |
| JOB 012307 | PORTABLE CONSTRUCTION LIGHTING |
| JOB 012307 | PRICE ADJUSTMENT FOR ASPHALT BINDER |
| JOB 012307 | PROCECUION AND PROGRESS WITH BID SCHEDULE |
| JOB 012307 | RESTRICTIONS ON THE USE OF RECYCLED ASPHALT PAVEMENT MATERIAL |
| JOB 012307 | RUMBLE STRIP REMOVAL |
| JOB 012307 | SECTION 404 NATIONWIDE 26 PERMIT REQUIREMENTS |
| JOB 012307 | SETTLEMENT AGREEMENTS |
| JOB 012307 | SITE USE (A+C METHOD) - CALENDAR DAY CONTRACT |
| JOB 012307 | SOIL STABILIZATION |
| JOB 012307 | SPECIAL SAFETY REQUIREMENTS FOR BRIDGES |
| JOB 012307 | STONE BACKFILL |
| JOB 012307 | STORM WATER POLLUTION PREVENTION PLAN |
| JOB 012307 | SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS |
| JOB 012307 | TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES |
| JOB 012307 | TRAFFIC CONTROL SUPERVISOR |
| JOB 012307 | UNPAINTED WEATHERING STRUCTURAL STEEL |
| JOB 012307 | UTILITY ADJUSTMENTS |
| JOB 012307 | VALUE ENGINEERING |
| JOB 012307 | WARM MIX ASPHALT |
| JOB 012307 | WIRE ROPE SAFETY FENCE (POST REPAIR) |
| JOB 012307 | WIRE ROPE SAFETY FENCE SPECIFICATIONS |
| JOB 012307 | WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS |

* LEVELING TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER TO CORRECT SUPERELEVATION AND ELEVATION OF EXISTING PAVEMENT

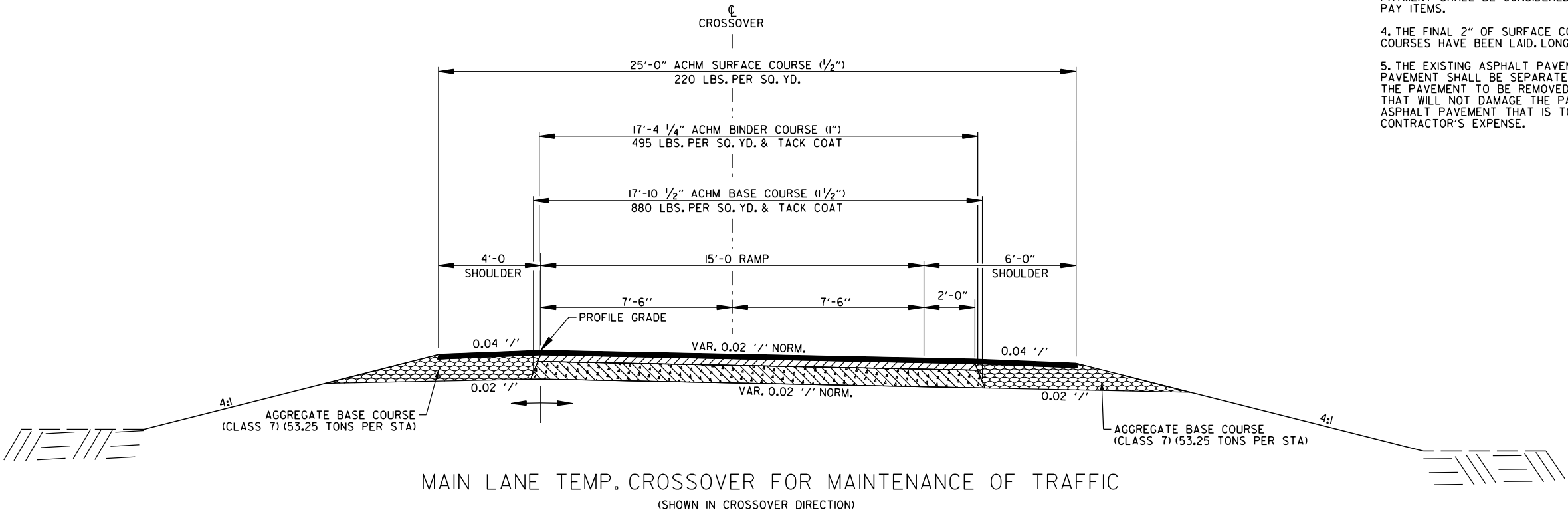
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2 TYPICAL SECTIONS OF IMPROVEMENT



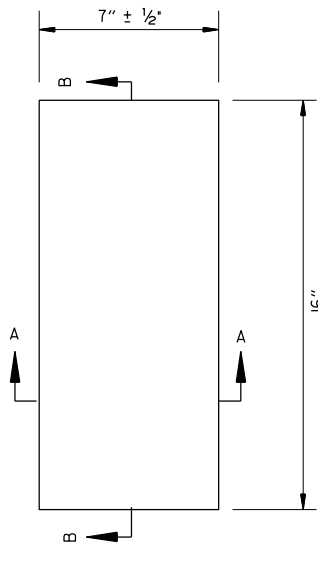
NOTES:

1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
2. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN PLUS OR MINUS ONE INCH OF THE PLAN THICKNESS SHOWN. THE CONTRACTOR WILL CORRECT ANY DEFICIENT THICKNESS THAT DOES NOT MEET THE TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.
3. ASPHALT FOR LEVELING OF EXISTING PAVEMENT SHALL BE PLACED ONLY IF AND WHERE DIRECTED BY THE ENGINEER. CALCULATIONS FOR THE AMOUNT OF LEVELING AND/OR LEVELING OPERATIONS SHALL BE PERFORMED BEFORE CONSTRUCTING NOTCH AND WIDENING. CALCULATIONS WILL NOT BE PAID FOR DIRECTLY, BUT PAYMENT SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS PAY ITEMS.
4. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.
5. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

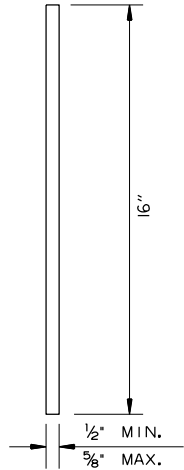


TYPICAL SECTIONS OF IMPROVEMENT

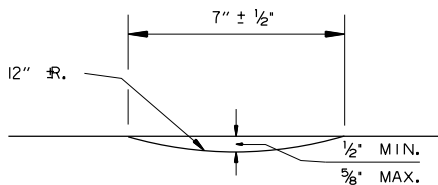
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PLAN

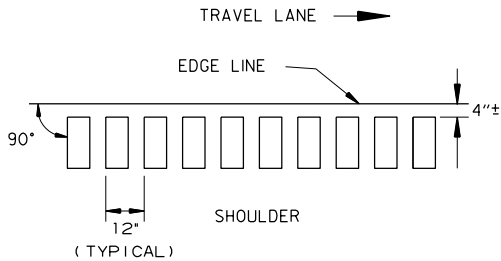


SECTION B-B



SECTION A-A

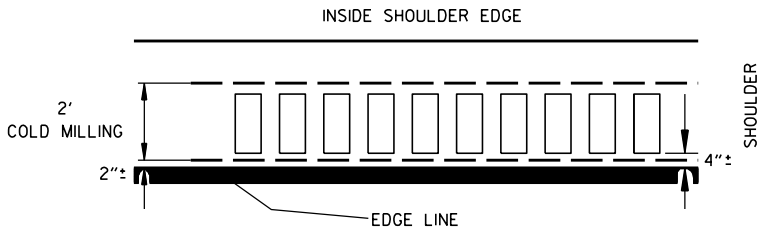
DETAILS OF RUMBLE STRIPS



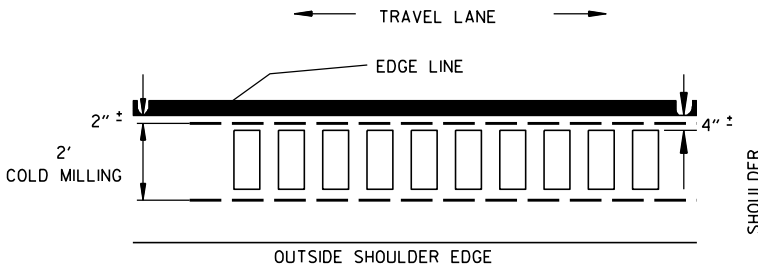
LOCATION PLAN OF RUMBLE STRIPS
LEFT OR RIGHT SHOULDER

NOTES:

1. ALIGNMENT OF RUMBLE STRIPS SHALL GENERALLY BE STRAIGHT AND OFFSET APPROXIMATELY 4" FROM THE OUTER EDGE OF THE EDGE LINE. THIS OFFSET MAY BE ADJUSTED TO ACCOMMODATE VARIATIONS IN THE EDGE LINE.
2. THE 1/2" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 16" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.
3. RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS, APPROACH SLABS, OR ACROSS TRANSVERSE JOINTS OF CONCRETE SHOULDERS.

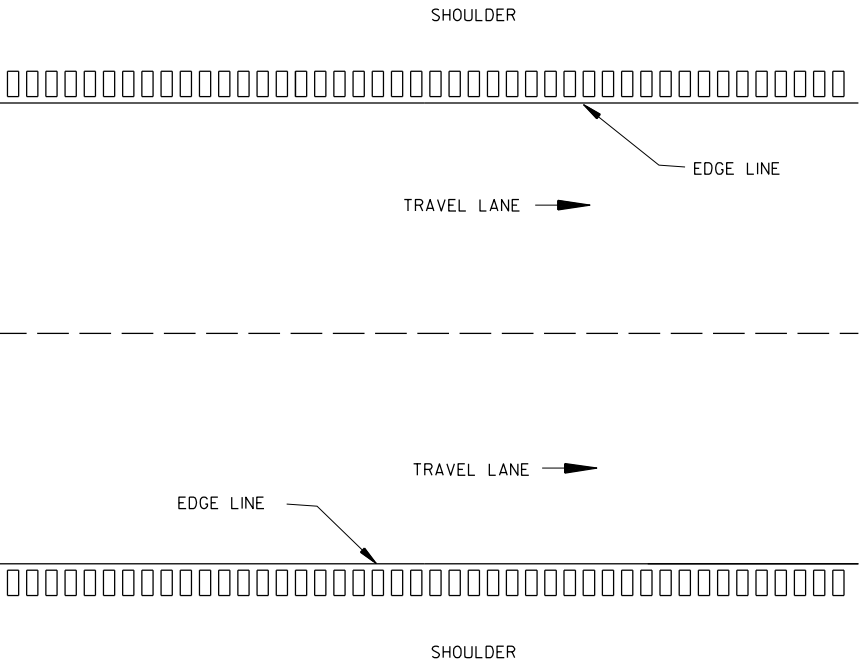


PLAN VIEW

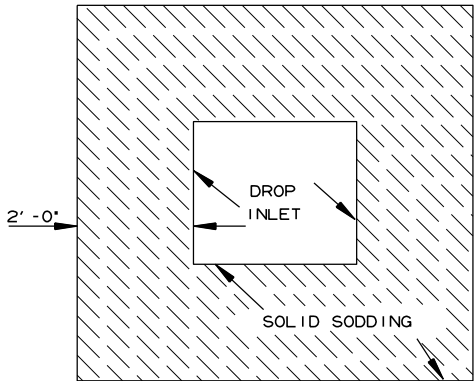


PLAN VIEW

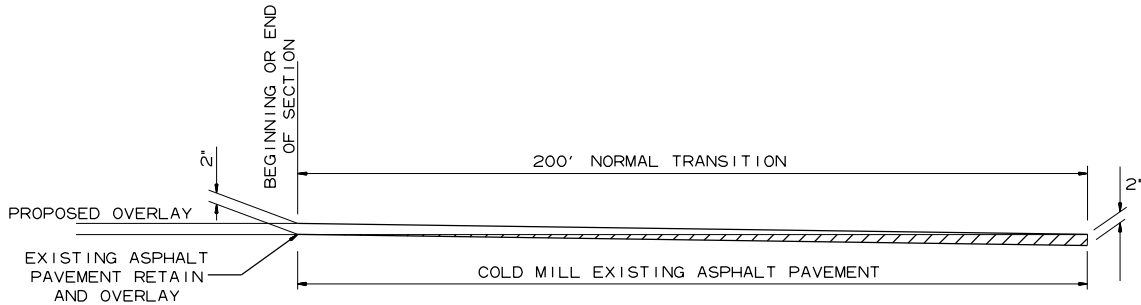
DETAIL OF RUMBLE STRIP REMOVAL
IN INSIDE SHOULDERS
(ASPHALT)



PLAN VIEW



DETAIL FOR SOLID SODDING
AROUND DROP INLETS



DETAIL FOR TRANSITIONS



CONSTRUCTION PROJECT INFORMATION SIGN

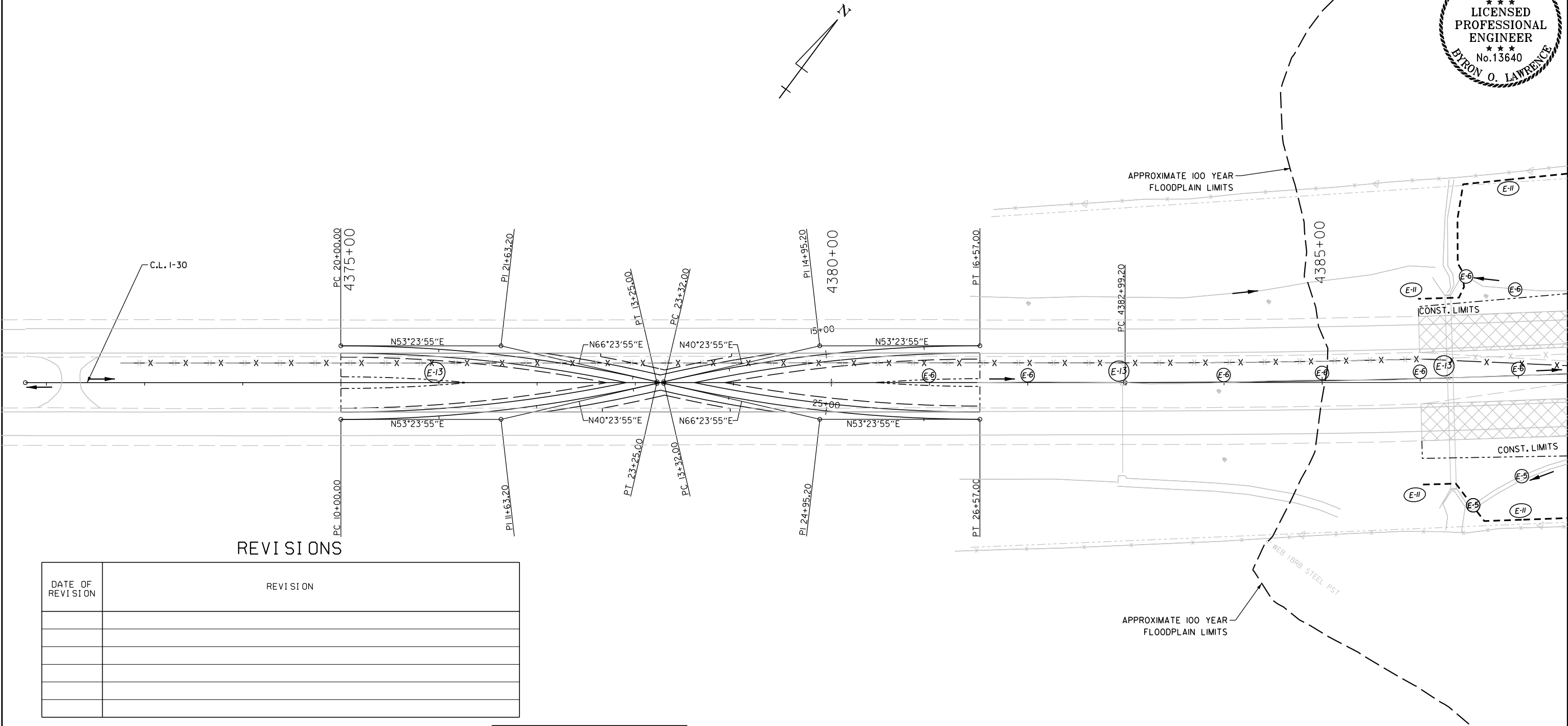
SPECIAL DETAILS

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				JOB NO.		012307	5	68
SPECIAL DETAILS								



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				6	ARK.			
				JOB NO.		012307	8	68
2				TEMPORARY EROSION CONTROL DETAILS				



REVISIONS

DATE OF REVISION	REVISION

LEGEND	
	= DROP INLET SILT FENCE
	= SAND BAG DITCH CHECKS
	= ROCK DITCH CHECKS
	= SILT FENCE

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

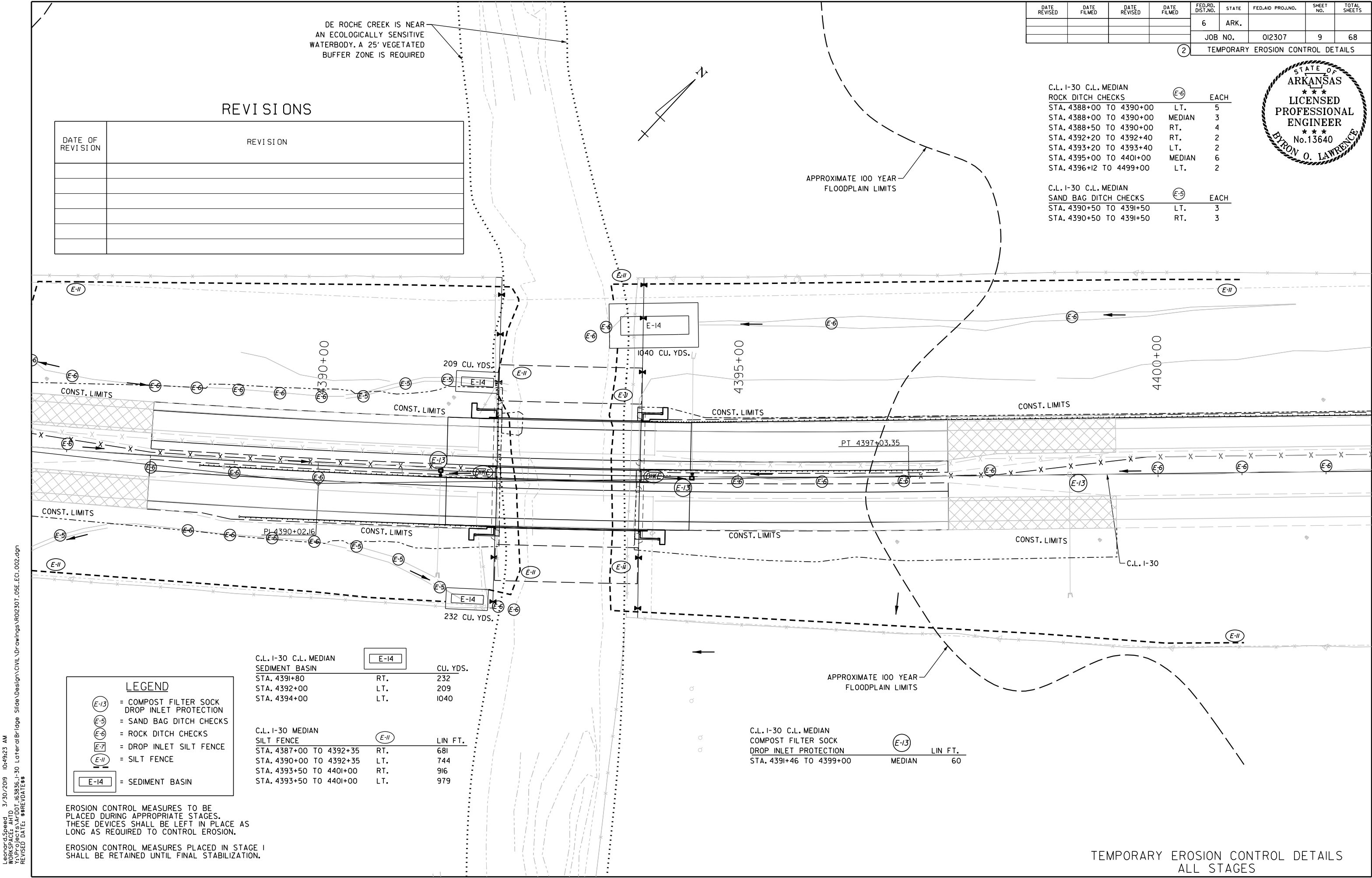
EROSION CONTROL MEASURES PLACED IN STAGE I SHALL BE RETAINED UNTIL FINAL STABILIZATION.

C.L. I-30 C.L. MEDIAN SILT FENCE		LIN FT.
STA. 4386+00 TO 4387+00	LT.	197
STA. 4386+00 TO 4387+00	RT.	108
C.L. I-30 C.L. MEDIAN COMPOST FILTER SOCK DROP INLET PROTECTION		LIN FT.
STA. 4375+00 TO 4386+28	MEDIAN	60

C.L. I-30 C.L. MEDIAN ROCK DITCH CHECKS		EACH
STA. 4386+50 TO 4387+00	LT.	2
STA. 4381+00 TO 4387+00	MEDIAN	6
C.L. I-30 C.L. MEDIAN SAND BAG DITCH CHECKS		EACH
STA. 4386+50 TO 4387+00	RT.	2

TEMPORARY EROSION CONTROL DETAILS
ALL STAGES

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REVISIONS

DATE OF REVISION	REVISION

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	9	68
2				TEMPORARY EROSION CONTROL DETAILS				

C.L. I-30	C.L. MEDIAN		
ROCK DITCH CHECKS			
STA. 4388+00 TO 4390+00	LT.	E-6	EACH 5
STA. 4388+00 TO 4390+00	MEDIAN	E-6	3
STA. 4388+50 TO 4390+00	RT.	E-6	4
STA. 4392+20 TO 4392+40	RT.	E-6	2
STA. 4393+20 TO 4393+40	LT.	E-6	2
STA. 4395+00 TO 4401+00	MEDIAN	E-6	6
STA. 4396+12 TO 4499+00	LT.	E-6	2

C.L. I-30	C.L. MEDIAN		
SAND BAG DITCH CHECKS			
STA. 4390+50 TO 4391+50	LT.	E-5	EACH 3
STA. 4390+50 TO 4391+50	RT.	E-5	3



LEGEND

- E-13 = COMPOST FILTER SOCK DROP INLET PROTECTION
- E-5 = SAND BAG DITCH CHECKS
- E-6 = ROCK DITCH CHECKS
- E-7 = DROP INLET SILT FENCE
- E-11 = SILT FENCE
- E-14 = SEDIMENT BASIN

C.L. I-30	C.L. MEDIAN		
SEDIMENT BASIN			
STA. 4391+80	RT.	E-14	CU. YDS. 232
STA. 4392+00	LT.	E-14	209
STA. 4394+00	LT.	E-14	1040

C.L. I-30	C.L. MEDIAN		
SILT FENCE			
STA. 4387+00 TO 4392+35	RT.	E-11	LIN FT. 681
STA. 4390+00 TO 4392+35	LT.	E-11	744
STA. 4393+50 TO 4401+00	RT.	E-11	916
STA. 4393+50 TO 4401+00	LT.	E-11	979

C.L. I-30	C.L. MEDIAN		
COMPOST FILTER SOCK DROP INLET PROTECTION			
STA. 4391+46 TO 4399+00	MEDIAN	E-13	LIN FT. 60

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

EROSION CONTROL MEASURES PLACED IN STAGE I SHALL BE RETAINED UNTIL FINAL STABILIZATION.

TEMPORARY EROSION CONTROL DETAILS
ALL STAGES

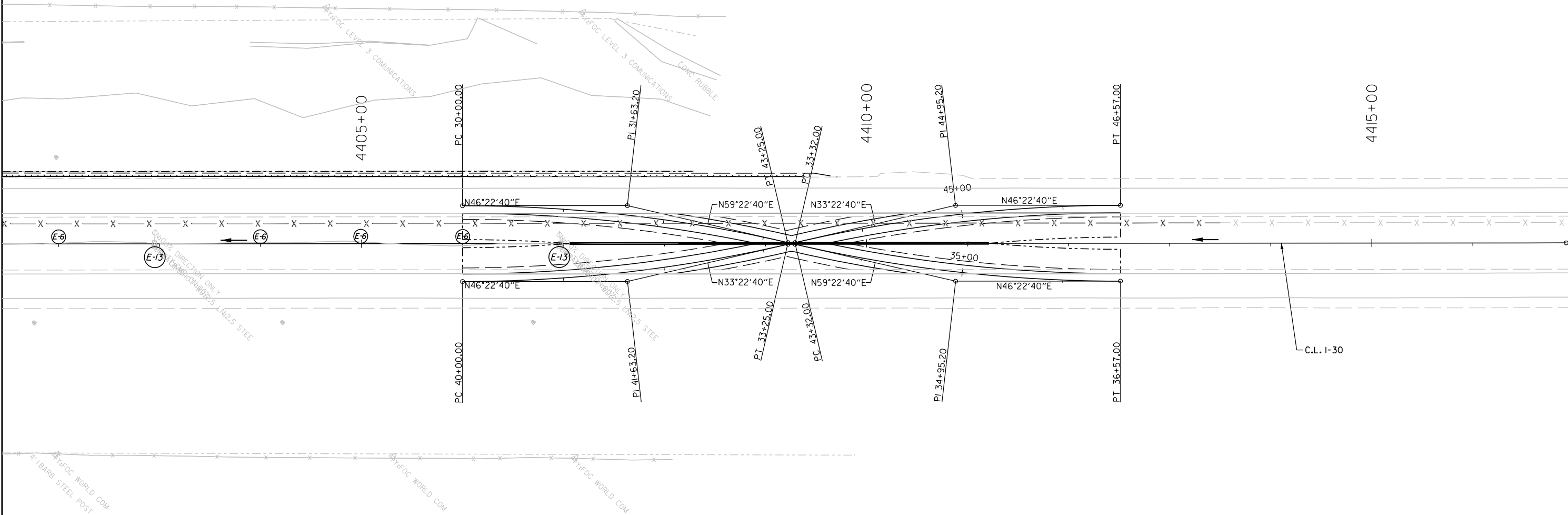
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				6	ARK.			
				JOB NO.	012307	10	68	
TEMPORARY EROSION CONTROL DETAILS								

2

REVISIONS

DATE OF REVISION	REVISION



LEGEND

- = DROP INLET SILT FENCE
- = ROCK DITCH CHECKS

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES. THESE DEVICES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED TO CONTROL EROSION.

EROSION CONTROL MEASURES PLACED IN STAGE I SHALL BE RETAINED UNTIL FINAL STABILIZATION.

C.L. I-30 C.L. MEDIAN
COMPOST FILTER SOCK
DROP INLET PROTECTION
STA. 4402+95 TO 4410+90
MEDIAN
40

C.L. I-30 C.L. MEDIAN
ROCK DITCH CHECKS
STA. 4400+02 TO 4306+00
MEDIAN
4

TEMPORARY EROSION CONTROL DETAILS
ALL STAGES

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	II	68

2 MAINTENANCE OF TRAFFIC DETAILS



SEQUENCE OF CONSTRUCTION:

STAGE 1 OPERATIONS:
INSTALL ADVANCE WARNING SIGNS.
INSTALL TEMPORARY EROSION CONTROL DEVICES.
CONSTRUCT BRIDGE SUPERSTRUCTURE ON TEMPORARY SUPPORTS AND BRIDGE SUBSTRUCTURE UNDER EXISTING MAIN LANES.

STAGE 2 OPERATIONS:
INSTALL ADVANCE WARNING SIGNS.
CLOSE BOTH INSIDE LANES ON MAIN LANES.
REMOVE WIRE ROPE SAFETY FENCE AND RUMBLE STRIPS IN CONSTRUCTION AREAS.
CONSTRUCT CROSSOVERS AND CONSTRUCTION PAVEMENT MARKINGS IN MEDIAN AREA.

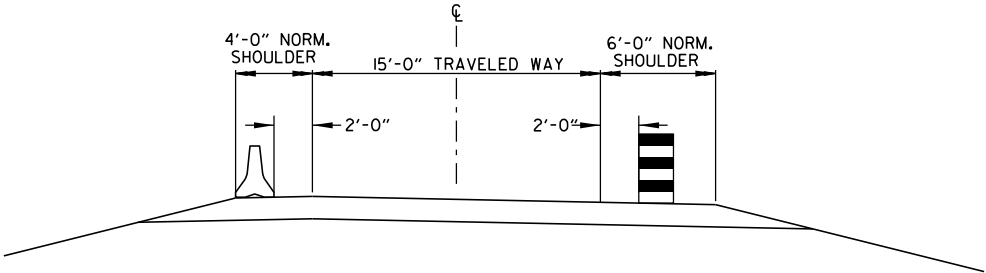
STAGE 3A OPERATIONS:
SHIFT EB I-30 MAIN LANE TRAFFIC TO OUTSIDE SHOULDER.
INSTALL PRIMARY EB MAIN LANE PRECAST CONCRETE BARRIER WITH MODULAR GLARE SHIELDS AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
ROUTE WB I-30 MAIN LANE TRAFFIC THROUGH CROSSOVER ONTO INSIDE LANE OF EB MAIN LANES.
PERFORM EXISTING WB BRIDGE DEMOLITION AND BRIDGE SLIDE.
RECONSTRUCT APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 3A MAINTENANCE OF TRAFFIC.

STAGE 3B OPERATIONS:
SHIFT WB I-30 MAIN LANE TRAFFIC TO WB OUTSIDE SHOULDER AND RETURN EB I-30 MAIN LANE TRAFFIC TO NORMAL FLOW.
INSTALL PRIMARY WB MAIN LANE PRECAST CONCRETE BARRIER AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
RETURN WB I-30 MAIN LANE TRAFFIC TO TWO TRAVEL LANES.
RECONSTRUCT REMAINING WB APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 3B MAINTENANCE OF TRAFFIC.
REMOVE AND INSTALL WB MEDIAN GUARDRAIL.
INSTALL INSIDE WB PERMANENT PAVEMENT MARKINGS AS DIRECTED.

STAGE 4A OPERATIONS:
SHIFT WB I-30 MAIN LANE TRAFFIC TO OUTSIDE SHOULDER.
INSTALL PRIMARY WB MAIN LANE PRECAST CONCRETE BARRIER WITH MODULAR GLARE SHIELDS AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
ROUTE EB I-30 MAIN LANE TRAFFIC THROUGH CROSSOVER ONTO INSIDE LANE OF WB MAIN LANES.
PERFORM EXISTING EB BRIDGE DEMOLITION AND BRIDGE SLIDE.
RECONSTRUCT APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 4A MAINTENANCE OF TRAFFIC.

STAGE 4B OPERATIONS:
SHIFT EB I-30 MAIN LANE TRAFFIC TO OUTSIDE SHOULDER AND RETURN WB I-30 MAIN LANE TRAFFIC TO NORMAL FLOW.
INSTALL PRIMARY EB MAIN LANE PRECAST CONCRETE BARRIER AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
RETURN EB I-30 MAIN LANE TRAFFIC TO TWO TRAVEL LANES.
RECONSTRUCT REMAINING EB APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 4B MAINTENANCE OF TRAFFIC.
REMOVE AND INSTALL EB MEDIAN GUARDRAIL.
REMOVE MEDIAN CROSSOVERS AND INSTALL WB PERMANENT PAVEMENT MARKINGS.

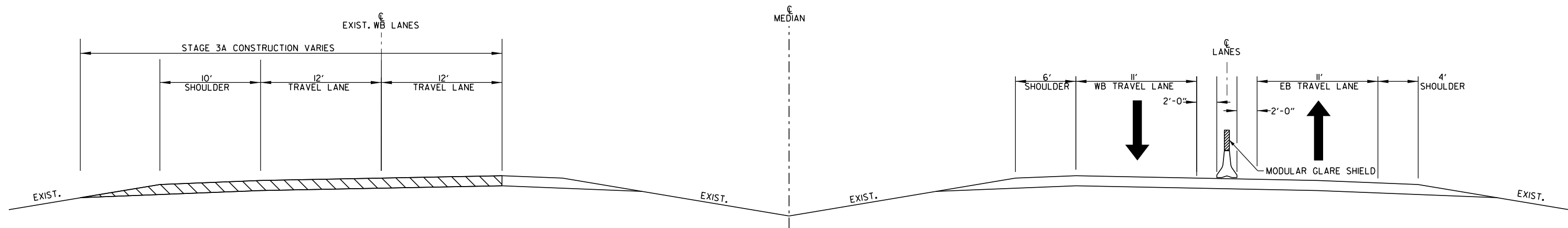
STAGE 5 OPERATIONS:
SHIFT EB TRAFFIC TO PERMANENT LOCATION AND INSTALL REMAINING PERMANENT PAVEMENT MARKINGS, GUARDRAIL AND WIRE ROPE SAFETY FENCE.



TYPICAL TRAFFIC DRUM AND BARRIER WALL PLACEMENT
AT CROSSOVERS

SEQUENCE OF CONSTRUCTION:
STAGE 3A OPERATIONS:
SHIFT EB I-30 MAIN LANE TRAFFIC TO OUTSIDE SHOULDER.
INSTALL PRIMARY EB MAIN LANE PRECAST CONCRETE BARRIER WITH MODULAR GLARE SHIELDS AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
ROUTE WB I-30 MAIN LANE TRAFFIC THROUGH CROSSOVER ONTO INSIDE LANE OF EB MAIN LANES.
PERFORM EXISTING WB BRIDGE DEMOLITION AND BRIDGE SLIDE.
RECONSTRUCT APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 3A MAINTENANCE OF TRAFFIC.

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				6	ARK.			
				JOB NO.		012307	14	68
②				MAINTENANCE OF TRAFFIC DETAILS				



STAGE 3A CONSTRUCTION - I-30 WB
STA. 4386+00.00 TO 4399+50.00

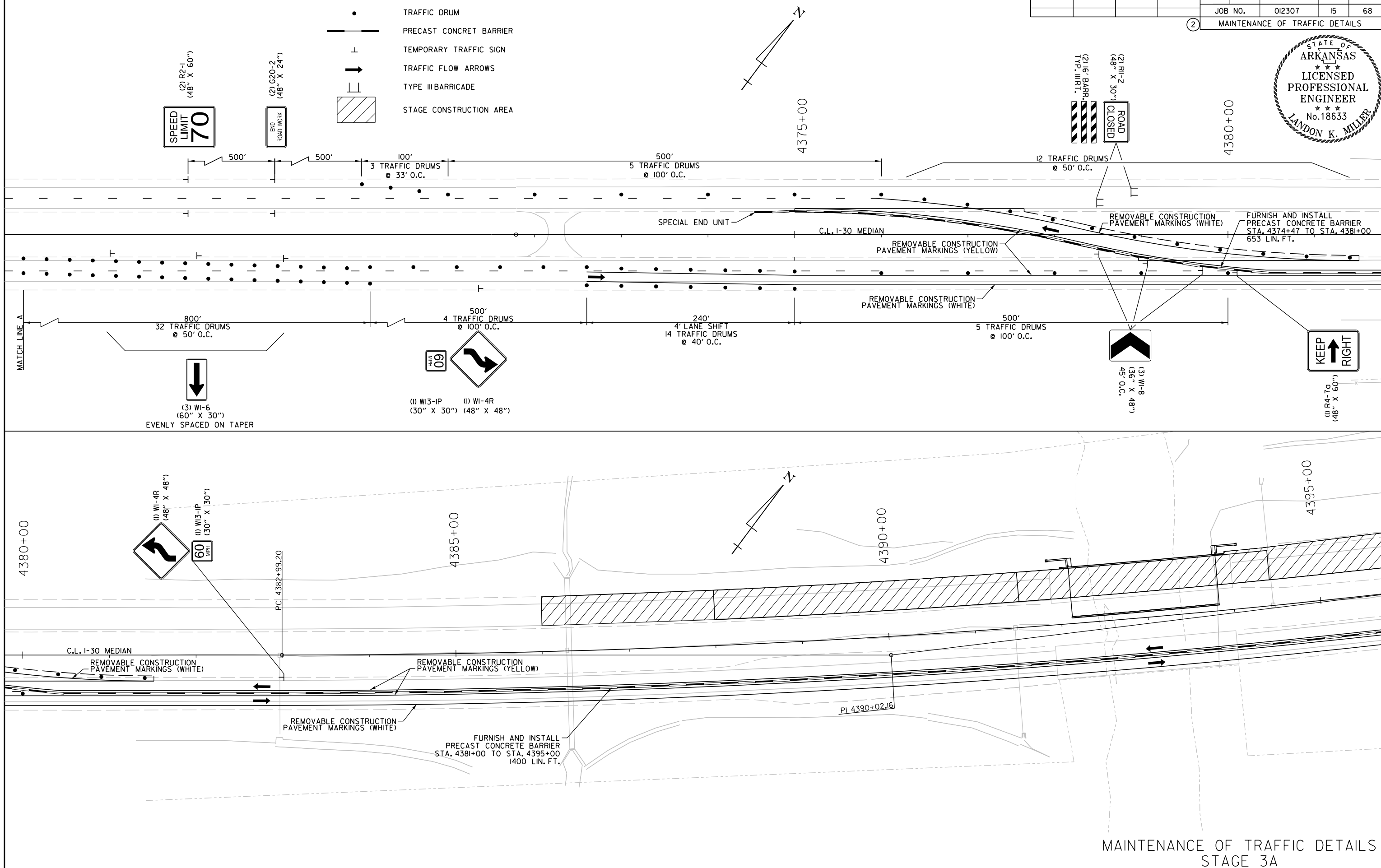
STAGE 3A MAIN LANE HEAD-TO-HEAD FOR MAINTENANCE OF TRAFFIC
STA. 4375+00 TO 4412+50.00

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LEGEND

- TRAFFIC DRUM
- PRECAST CONCRET BARRIER
- ⊥ TEMPORARY TRAFFIC SIGN
- TRAFFIC FLOW ARROWS
- ▬ TYPE III BARRICADE
- ▨ STAGE CONSTRUCTION AREA

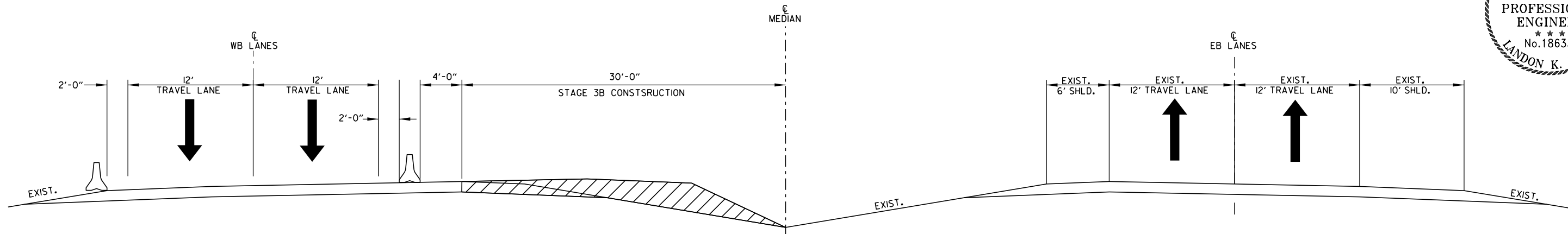
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				JOB NO.	012307	15	68	
② MAINTENANCE OF TRAFFIC DETAILS								



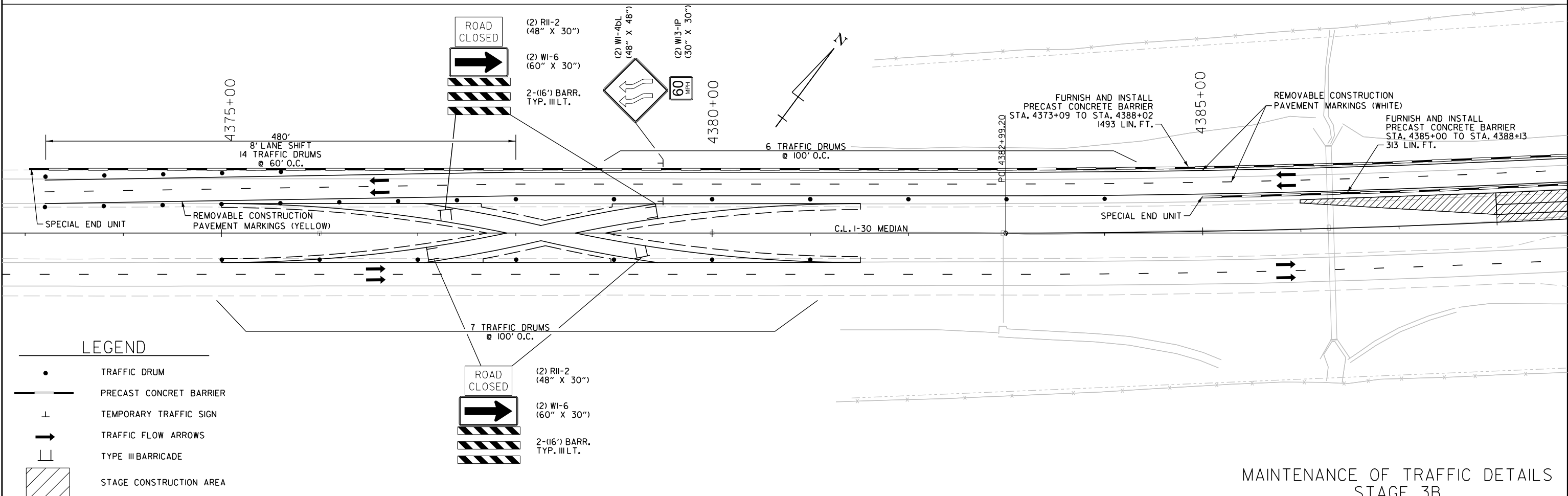
MAINTENANCE OF TRAFFIC DETAILS
STAGE 3A

STAGE 3B OPERATIONS:
SHIFT WB I-30 MAIN LANE TRAFFIC TO WB OUTSIDE SHOULDER AND RETURN EB I-30 MAIN LANE TRAFFIC TO NORMAL FLOW.
INSTALL PRIMARY WB MAIN LANE PRECAST CONCRETE BARRIER AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
RETURN WB I-30 MAIN LANE TRAFFIC TO TWO TRAVEL LANES.
RECONSTRUCT REMAINING WB APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 3B MAINTENANCE OF TRAFFIC.
REMOVE AND INSTALL WB MEDIAN GUARDRAIL.
INSTALL INSIDE WB PERMANENT PAVEMENT MARKINGS AS DIRECTED.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	17	68
				MAINTENANCE OF TRAFFIC DETAILS				



STA. 4386+00.00 TO 4399+50.00



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REVISION DATE: **REDATE**

LEGEND

- TRAFFIC DRUM
- PRECAST CONCRET BARRIER
- ⊥ TEMPORARY TRAFFIC SIGN
- TRAFFIC FLOW ARROWS
- ⊥ TYPE III BARRICADE
- ▨ STAGE CONSTRUCTION AREA

FURNISH AND INSTALL
PRECAST CONCRETE BARRIER
STA. 4388+13 TO STA. 4402+33
1420 LIN. FT.

FURNISH AND INSTALL
PRECAST CONCRETE BARRIER
STA. 4388+02 TO STA. 4392+02
400 LIN. FT.

FURNISH AND INSTALL
PRECAST CONCRETE BARRIER
STA. 4393+94 TO STA. 4402+94
900 LIN. FT.

REMOVABLE CONSTRUCTION
PAVEMENT MARKINGS (WHITE)

REMOVABLE CONSTRUCTION
PAVEMENT MARKINGS (YELLOW)

TEMPORARY IMPACT
ATTENUATION BARRIER

C.L. I-30 MEDIAN

PT 4397+03.35

PI 4390+02.16

ROAD
CLOSED



(2) RII-2
(48" X 30")

(2) W1-6
(60" X 30")

2- (16') BARR.
TYP. III LT.

FURNISH AND INSTALL
PRECAST CONCRETE BARRIER
STA. 4402+94 TO STA. 4414+74
1180 LIN. FT.

REMOVABLE CONSTRUCTION
PAVEMENT MARKINGS (WHITE)

7 TRAFFIC DRUMS
@ 100' O.C.

REMOVABLE CONSTRUCTION
PAVEMENT MARKINGS (YELLOW)

480'
8' LANE SHIFT
15 TRAFFIC DRUMS
@ 60' O.C.

TEMPORARY IMPACT
ATTENUATION BARRIER

ROAD
CLOSED



(2) RII-2
(48" X 30")

(2) W1-6
(60" X 30")

2- (16') BARR.
TYP. III LT.

7 TRAFFIC DRUMS
@ 100' O.C.

(2) W1-4bR
(48" X 48")



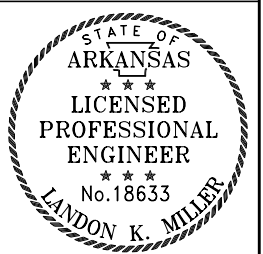
(2) W13-1P
(30" X 30")



60
MPH

MAINTENANCE OF TRAFFIC DETAILS
STAGE 3B

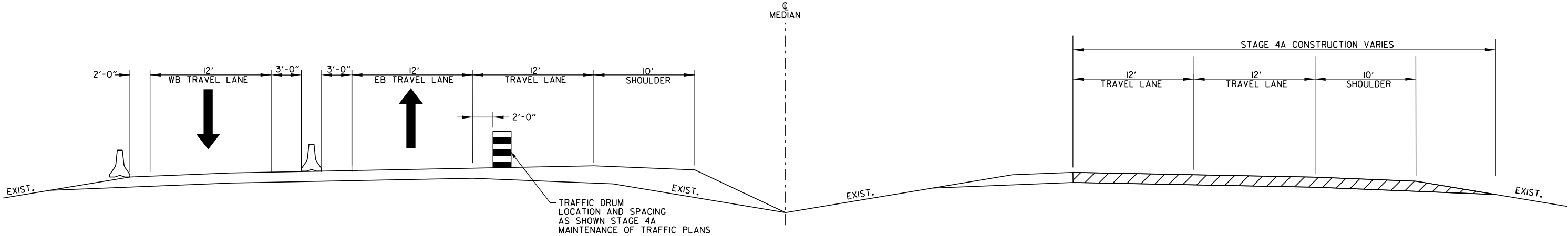
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				6	ARK.			
				JOB NO.	012307	18	68	
2 MAINTENANCE OF TRAFFIC DETAILS								

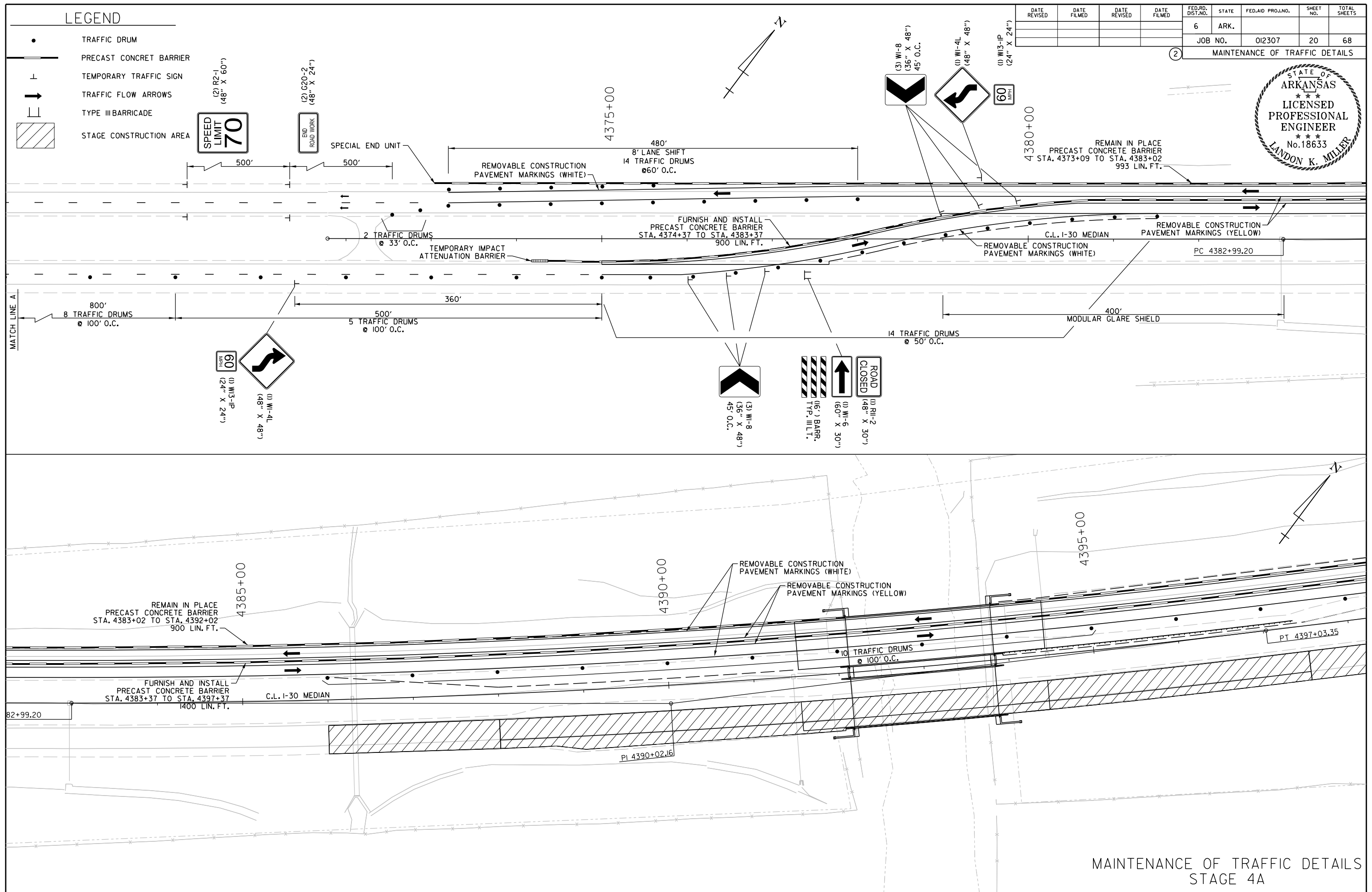


SEQUENCE OF CONSTRUCTION:

STAGE 4A OPERATIONS:
SHIFT WB I-30 MAIN LANE TRAFFIC TO OUTSIDE SHOULDER.
INSTALL PRIMARY WB MAIN LANE PRECAST CONCRETE BARRIER WITH MODULAR GLARE SHIELDS AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
ROUTE EB I-30 MAIN LANE TRAFFIC THROUGH CROSSOVER ONTO INSIDE LANE OF WB MAIN LANES.
PERFORM EXISTING EB BRIDGE DEMOLITION AND BRIDGE SLIDE.
RECONSTRUCT APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 4A MAINTENANCE OF TRAFFIC.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012307	19	68	
				MAINTENANCE OF TRAFFIC DETAILS				



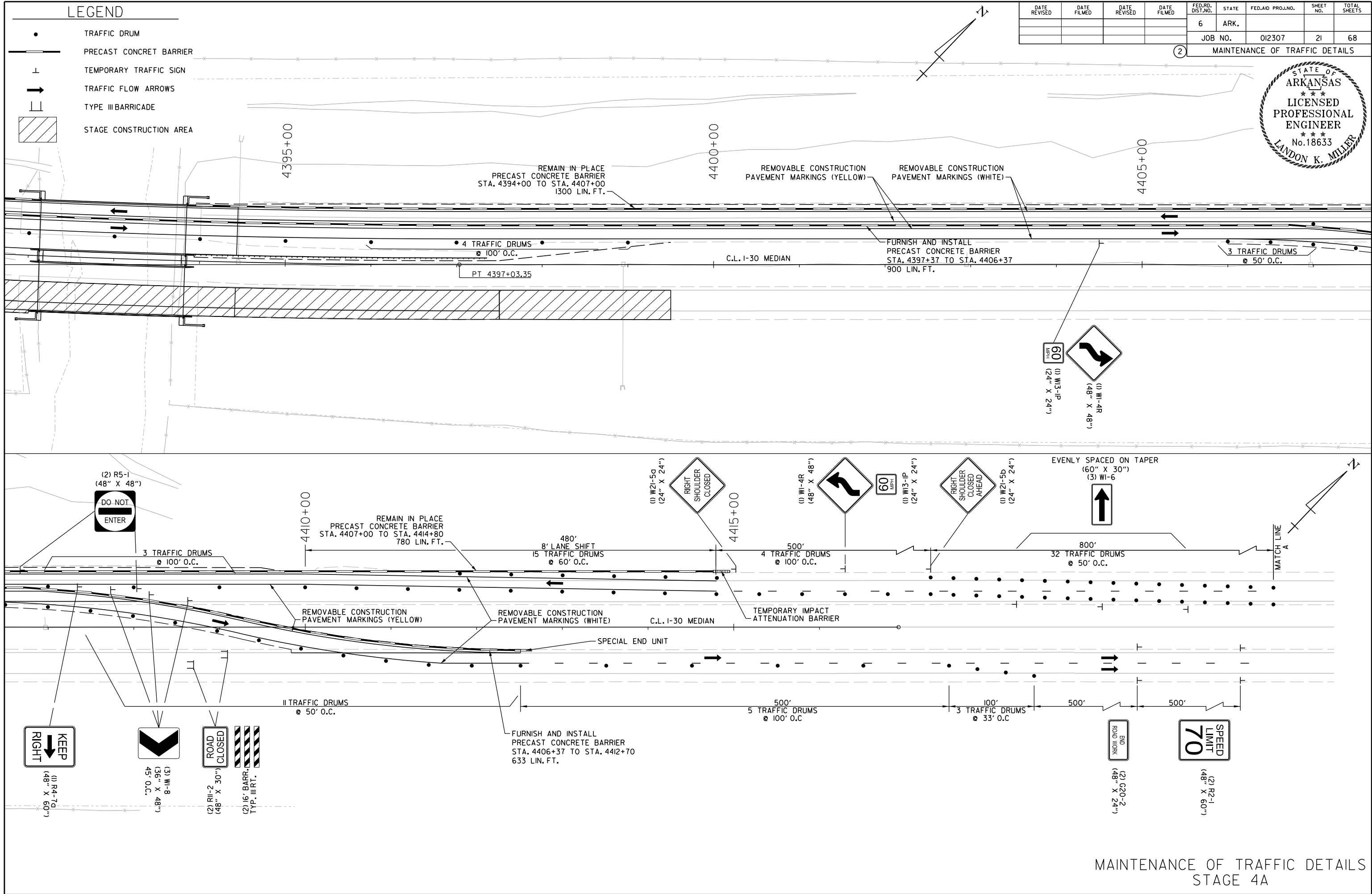


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LEGEND

- TRAFFIC DRUM
- PRECAST CONCRET BARRIER
- ⊥ TEMPORARY TRAFFIC SIGN
- TRAFFIC FLOW ARROWS
- ⊥ TYPE III BARRICADE
- ▨ STAGE CONSTRUCTION AREA

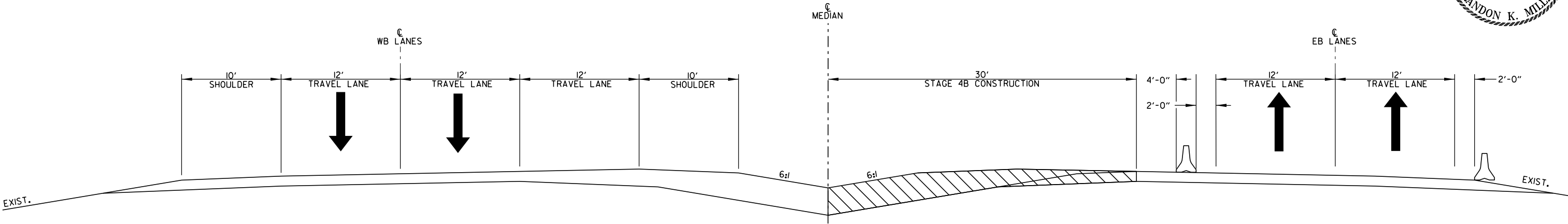
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				6	ARK.			
				JOB NO.	012307	21	68	
MAINTENANCE OF TRAFFIC DETAILS								



MAINTENANCE OF TRAFFIC DETAILS
STAGE 4A

SEQUENCE OF CONSTRUCTION:
STAGE 4B OPERATIONS:
SHIFT EB I-30 MAIN LANE TRAFFIC TO OUTSIDE SHOULDER AND RETURN WB I-30 MAIN LANE TRAFFIC TO NORMAL FLOW.
INSTALL PRIMARY EB MAIN LANE PRECAST CONCRETE BARRIER AND REMOVABLE CONSTRUCTION PAVEMENT MARKINGS.
RETURN EB I-30 MAIN LANE TRAFFIC TO TWO TRAVEL LANES.
RECONSTRUCT REMAINING EB APPROACH SLABS AND ROADWAY APPROACH WORK AS SHOWN IN STAGE 4B MAINTENANCE OF TRAFFIC.
REMOVE AND INSTALL EB MEDIAN GUARDRAIL.
REMOVE MEDIAN CROSSOVERS AND INSTALL WB PERMANENT PAVEMENT MARKINGS.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	22	68
				MAINTENANCE OF TRAFFIC DETAILS				

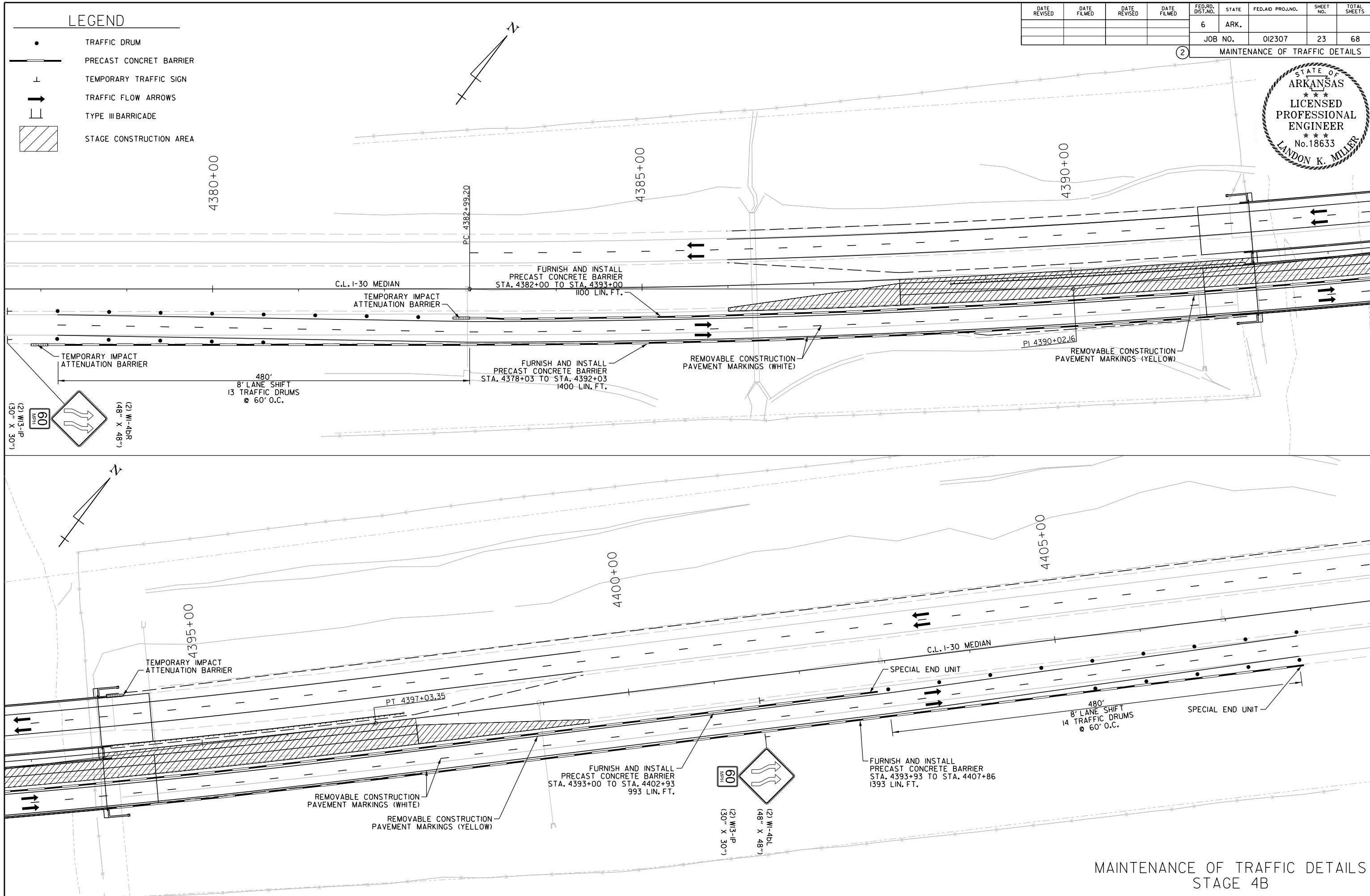


STAGE 4B CONSTRUCTION
STA. 4386+00.00 TO STA. 4399+50.00

LEGEND

- TRAFFIC DRUM
- PRECAST CONCRET BARRIER
- ⊥ TEMPORARY TRAFFIC SIGN
- TRAFFIC FLOW ARROWS
- ⊥ TYPE III BARRICADE
- ▨ STAGE CONSTRUCTION AREA

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	012307	23	68	
MAINTENANCE OF TRAFFIC DETAILS								



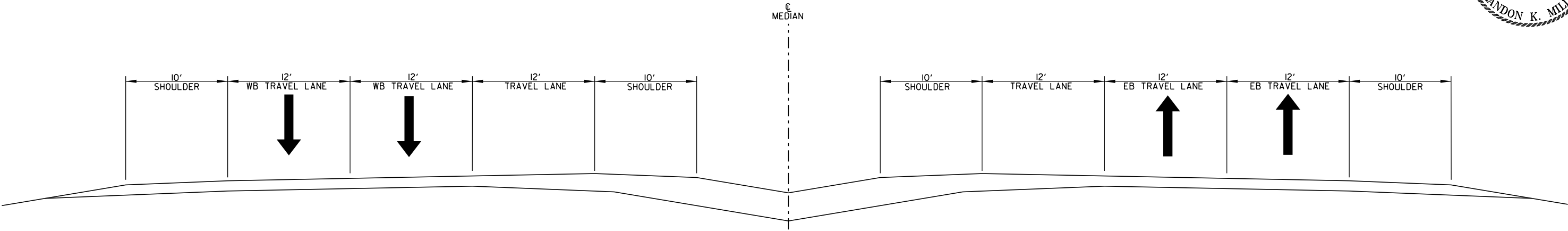
MAINTENANCE OF TRAFFIC DETAILS
STAGE 4B

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SEQUENCE OF CONSTRUCTION:
STAGE 5 OPERATIONS:
SHIFT EB TRAFFIC TO PERMANENT LOCATION AND INSTALL REMAINING PERMANENT PAVEMENT MARKINGS, GUARDRAIL AND WIRE ROPE SAFETY FENCE.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	24	68

2 MAINTENANCE OF TRAFFIC DETAILS



STAGE 5A MAINTENANCE OF TRAFFIC TYPICAL SECTION

STA. 4388+00.00 TO STA. 4397+50.00

MAINTENANCE OF TRAFFIC DETAILS
STAGE 5 - TYPICAL SECTION

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	26	68
				PERMANENT PAVEMENT MARKINGS DETAILS				

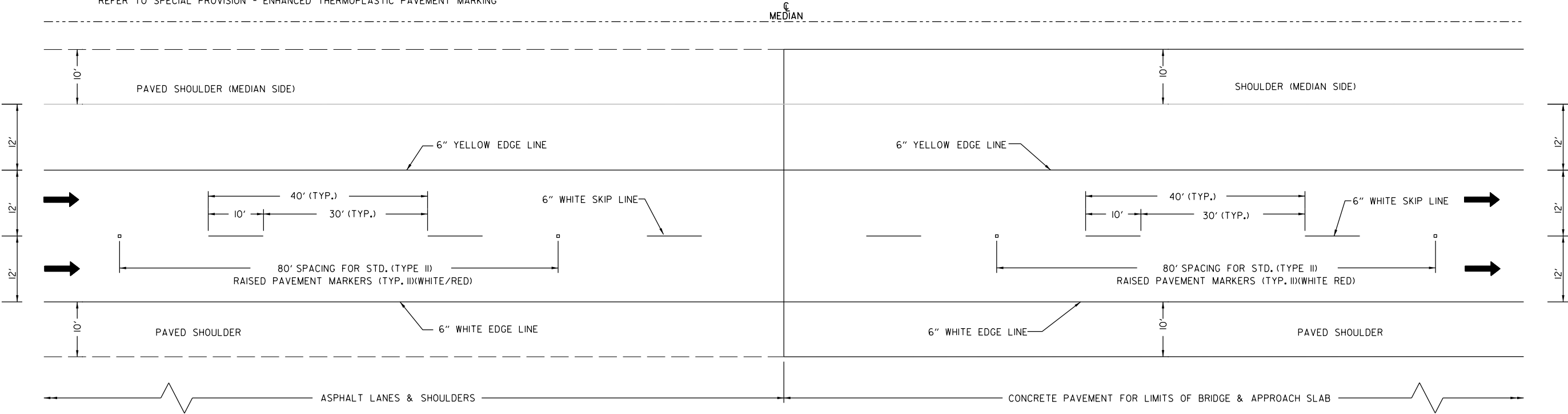


ASPHALT ROADWAY

CONCRETE BRIDGE

SKIP LINE - ENHANCED THERMOPLASTIC PAVEMENT MARKING
EDGE LINES - ENHANCED THERMOPLASTIC PAVEMENT MARKING
REFER TO SPECIAL PROVISION - ENHANCED THERMOPLASTIC PAVEMENT MARKING

SKIP LINE - ENHANCED THERMOPLASTIC PAVEMENT MARKING
EDGE LINES - ENHANCED THERMOPLASTIC PAVEMENT MARKING
REFER TO SPECIAL PROVISION - ENHANCED THERMOPLASTIC PAVEMENT MARKING



PERMANENT PAVEMENT MARKING DETAILS

SEE STANDARD DRAWINGS PM-1 AND PM-2
FOR ADDITIONAL INFORMATION

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	27	68

2



SUMMARY SOIL CLASSIFICATION TEST RESULTS - DE ROCHE CREEK CROSSING									
BORING NO.	APPROX. STATION	SAMPLE DEPTH (ft.)	WATER CONTENT (%)	ATTERBERG LIMITS			PERCENT PASSING #200	UNIFIED CLASS.	AASHTO CLASS.
				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
B-2	4394+17	2.0 - 3.5	14	52	14	38	46	SC	A-7-6
B-2	4394+17	13.5 - 15.0	14	41	15	26	50	CL	A-7-6
B-3	4393+57	2.0 - 3.5	14	25	13	12	39	SC	A-6
B-5	4391+84	2.0 - 3.5	15	32	19	13	30	SC	A-2-6
B-5	4391+84	13.5 - 15.0	16	41	19	22	41	SC	A-7-6
B-6	4391+27	2.0 - 3.5	17	31	17	14	52	CL	A-6
B-7	4391+18	3.5 - 5.0	19	46	21	25	55	CL	A-7-6
B-7	4391+18	13.5 - 15.0	8	41	17	24	24	SC	A-2-7
B-8	4391+67	0.5 - 2.0	13	20	14	6	47	SC-SM	A-4
B-8	4391+67	5.0 - 6.5	15	35	21	14	33	SC	A-2-6
B-8	4391+67	18.5 - 20.0	15	37	18	19	40	SC	A-6
P-1	4395+92	3.5 - 5.0	19	41	15	26	48	SC	A-7-6
P-2	4396+97	3.5 - 5.0	14	30	14	16	41	SC	A-6
P-4	4394+43	3.5 - 5.0	11	40	12	28	35	SC	A-2-6
P-6	4394+42	5.0 - 6.5	7	44	15	29	50	CL	A-7-6
P-7	4391+19	3.5 - 5.0	14	32	19	13	37	SC	A-6
P-9	4391+68	3.5 - 5.0	9	29	18	11	10	SP-SC	A-2-6
P-10	4390+05	2.0 - 3.5	13	18	15	3	20	SM	A-2-4
P-11	4389+13	3.5 - 5.0	17	52	27	25	44	SC	A-7-6

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATIONS OF THE SAMPLE AND FROM SURFACE INDICATIONS ARE TYPICAL FOR THE LIMITS SHOWN. THESE DATA ARE SHOWN FOR INFORMATION ONLY. THE STATE WILL NOT BE RESPONSIBLE FOR VARIATIONS IN THE SOIL CHARACTERISTICS AND/OR EXTENT OF SAME DIFFERING FROM THE ABOVE TABULATIONS.

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CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS													
DESCRIPTION	STAGE 1	STAGE 2	STAGE 3A	STAGE 3B	STAGE 4A	STAGE 4B	END OF JOB	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS (WHITE)	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS (YELLOW)	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS (BLACKOUT)	RAISED PAVEMENT MARKERS	ENHANCED THERMOPLASTIC PAVEMENT MARKING	
											TYPE II (WHITE/RED)	6"	
												WHITE	YELLOW
	LIN. FT. - EACH							LIN. FT.			EACH	LIN. FT.	
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS (WHITE)			5762	5200	7922	3700		22584					
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS (YELLOW)			7996	4160	7366	2960			22482				
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)							34				34		
ENHANCED THERMOPLASTIC PAVEMENT MARKING WHITE (6")							3375					3375	
ENHANCED THERMOPLASTIC PAVEMENT MARKING YELLOW (6")							5305						5305
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.										9013			
TOTALS:								22584	22482	9013	34	3375	5305

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

AUTOMATED WORK ZONE INFORMATION SYSTEM

LOCATION	FURNISH AND INSTALL VEHICLE DETECTION SYSTEM	FURNISH AND INSTALL CLOSED CIRCUIT TELEVISION SYSTEM	FURNISH AND INSTALL VARIABLE MESSAGE SIGN	FURNISH AND INSTALL PUBLIC NOTIFICATION SYSTEM	* AWIS OPERATION	AWIS MOBILIZATION	* DEVICE RELOCATION
	EACH	EACH	EACH	EACH	MONTH	LUMP SUM	EACH
3 EACH @ 1 MI SPACING ON EACH DIRECTION OF I-30 APPROACHING THE WORK ZONE, AND 1 INSIDE WORK ZONE	7						
INSTALL AT DE ROCHE CREEK BRIDGE SITE		1					
IN ADVANCE OF THE FOLLOWING EXITS: I-30 WB - BEFORE EXIT 91 SOCIAL HILL, BEFORE EXIT 83 FRIENDSHIP HWY. 283.							
IN ADVANCE OF THE FOLLOWING EXITS: I-30 EB - BEFORE EXIT 73 ARKADELPHIA, BEFORE EXIT 78 CADD0 VALLEY HOT SPRINGS.			4				
I-30 WB AT EXIT 83 FRIENDSHIP, I-30 EB AT EXIT 78 CADD0 VALLEY HOT SPRINGS				2			
					14		
						1.00	
ESTIMATED QUANTITY: IF AND WHERE DIRECTED BY THE ENGINEER							5
TOTALS:	7	1	4	2	14	1.00	5

* QUANTITIES ESTIMATED. REFER TO SECTION 104.03 OF THE STANDARD SPECIFICATIONS

REMOVAL AND DISPOSAL OF ITEMS

STATION	STATION	LOCATION	APPROACH SLAB	APPROACH GUTTER	RUMBLE STRIPS	WIRE ROPE SAFETY FENCE	GUARDRAIL	TYPE H DROP INLETS
			EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	EACH
4372+75	4391+90	RT. OF I-30 LT. LANES				1915		
4394+00	4413+50	RT. OF I-30 LT. LANES				1950		
4375+00	4381+50	LT. & RT. OF C.L. I-30 MEDIAN			1300			
4406+00	4412+50	LT. & RT. OF C.L. I-30 MEDIAN			1300			
4388+64	4391+83	LT. OF I-30 RT. LANES					319	
4389+17	4391+83	RT. OF I-30 RT. LANES					266	
4391+54	4394+42	LT. & RT. OF C.L. I-30	4	8				
4394+07	4409+88	LT. OF I-30 LT. LANES					1581	
4394+07	4397+28	RT. OF I-30 LT. LANES					321	
4391+46		MEDIAN						1
4394+45		MEDIAN						1
TOTALS:			4	8	2600	3865	2487	2

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	STAGE 2	STAGE 3A	STAGE 3B	STAGE 4A	STAGE 4B	STAGE 5*	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	BARRICADES (TYPE III)		FURNISHING & INSTALLING PRECAST CONC. BARRIER	RELOCATING PRECAST CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATION BARRIER	TEMP. IMPACT ATTEN.BARR. (REPAIR)	* ADVANCE WARNING ARROW PANEL	* PORTABLE CHANGEABLE MESSAGE SIGN	MODULAR GLARE SHIELD	PORTABLE CONSTRUCTION LIGHTING
											NO.	SQ. FT.		RIGHT	LEFT								
W20-1	ROAD WORK 1 MILE	48"x48"	4			4		4		4	4	64.0											
W20-1	ROAD WORK 1/2 MILE	48"x48"	4			4		4		4	4	64.0											
W20-1	ROAD WORK 1500 FT.	48"x48"	4			4		4		4	4	64.0											
W20-1	ROAD WORK AHEAD	48"x48"		4	4		4		4	4	4	64.0											
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"		4	4		4		4	4	4	64.0											
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"		4	4		4		4	4	4	64.0											
W20-5	RIGHT LANE CLOSED 1500 FT.	48"x48"		4	4		4		4	4	4	64.0											
G20-2	END ROAD WORK	48"x24"	4	4	4	4	4	4	4	4	4	32.0											
W1-4R	REVERSE CURVE RT.	48"x48"			2		2			2	2	32.0											
W1-4L	REVERSE CURVE LT.	48"x48"			2		2			2	2	32.0											
W1-4bR	REVERSE CURVE RT. (TWO LANES)	48"x48"				2		2		2	2	32.0											
W1-4bL	REVERSE CURVE LT. (TWO LANES)	48"x48"				2		2		2	2	32.0											
W13-1P	SPEED LIMIT (ADVISORY)	30"x30"			4	4	4	4		4	4	25.0											
R11-2	ROAD CLOSED	48"x30"			3	8	3			8	8	80.0											
W1-6	LARGE ARROW	60"x30"		12	10	8	10		12	12	12	150.0											
W1-8	CHEVRONS	36"x48"			9		9			9	9	108.0											
R2-1	SPEED LIMIT "70"	48"x60"		4	4	4	4	4	4	4	4	80.0											
R2-1	SPEED LIMIT "60"	48"x60"		4	4	4	4	4	4	4	4	80.0											
R4-1	DO NOT PASS	48"x60"		4	4		4		4	4	4	80.0											
R4-7a	KEEP RIGHT	48"x60"			1		1			1	1	20.0											
R55-1	FINES DOUBLE IN WORK ZONES	36"x60"	4			4		4		4	4	60.0											
SPECIAL	MERGE NOW	48"x48"		2	2		2		2	2	2	32.0											
W1-6	ONE-DIRECTION LARGE ARROW	60"x30"				8				8	8	100.0											
W3-5	REDUCED SPEED AHEAD "60"	48"x48"		4	4	4	4	4	4	4	4	64.0											
W4-2 RT	MERGE LT.	48"x48"		4	4	4	4	4	4	4	4	64.0											
W21-5a	RIGHT SHOULDER CLOSED	48"x48"	2			1		1		2	2	32.0											
W21-5b	RIGHT SHOULDER CLOSED AHEAD	48"x48"	2			1		1		2	2	32.0											
W21-5a	LEFT SHOULDER CLOSED	48"x48"				1		1		1	1	16.0											
W21-5b	LEFT SHOULDER CLOSED AHEAD	48"x48"				1		1		1	1	16.0											
	TRAFFIC DRUMS			282	143	56	152	27	282	282			282										
	TYPE III BARRICADE-RT. (16")				48		48			48				48	128								
	TYPE III BARRICADE-LT. (16")					128				128													
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		1172		2701	1833	2100			7806						7806							
	RELOCATING PRECAST CONCRETE BARRIER				1172	3873	5706	4886		15637							15637						
	TEMPORARY IMPACT ATTENUATION BARRIER					2	1	3		6								6					
	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)					2	1	3		6									6				
	ADVANCE WARNING ARROW PANEL			2	2		2		2	2									6	30			
	PORTABLE CHANGEABLE MESSAGE SIGN		2	2	2	2	2	2	2	2											12		
	MODULAR GLARE SHIELD				400		400			400												800	
	PORTABLE CONSTRUCTION LIGHTING				4		4			4													32
TOTALS:											1647.0		282	48	128	7806	15637	6	6	30	12	800	32

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

NOTE: THE QUANTITY OF TRAFFIC DRUMS PROVIDED IS FOR BOTH SIDES OF THE ROADWAY FOR THE FULL LENGTH OF THE JOB. HOWEVER, THE INSTALLATION OF TRAFFIC DRUMS SHALL NEVER EXCEED THE ACTUAL WORK AREA BY MORE THAN 1/4 MILE, UNLESS APPROVED BY THE ENGINEER.

* QUANTITY ESTIMATED.
 SEE SECTION 104.03 OF THE STD. SPECS.
 TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.



QUANTITIES

L:\proj\4Speed_3/30/2019 10:50:40 AM
WORKSPACE: AHTD
Y:\Projects\ArDOT\I-30 Lateral Bridge Slide Design\Civil Drawings\RO2307.08B_QTYT_001.dgn
REVISED DATE: **REVDATE**

EARTHWORK					
STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT	* SOIL STABILIZATION
			CU, YD.		TON
4375+00.00	4381+50.00	CROSSOVERS 1A/1B	2407	1926	2
4388+00.00	4397+00.00	MAIN LANES	588	5506	6
4406+00.00	4412+50.00	CROSSOVERS 2A/2B	2407	1926	2
TOTALS:			5402	9358	10

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY.

REMOVAL AND DISPOSAL OF FENCE				
STATION	STATION	LOCATION	FENCE	
			LIN. FT.	
4392+00	4392+00	LT. & RT. OF C.L. I-30	420	
4393+70	4393+70	LT. & RT. OF C.L. I-30	410	
TOTALS:			830	

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	29	68
				QUANTITIES				

2



STATION	STATION	LOCATION	WIRE ROPE SAFETY FENCE	WRSF END TERMINAL	DITCH PAVING					WRSF (POST REPAIR)	TEMPORARY TERMINAL ANCHOR FOR WRSF
			LIN. FT.	EACH	LENGTH	WIDTH	CONCRETE DITCH PAVING (TYPE B)	SOLID SODDING	WATER	EACH	EACH
					LIN. FT.	LIN. FT.	SQ. YD.	SQ. YD.	M. GAL.		
4372+75	4392+10	LT OF C.L. MAIN LANES	1935	2	1935	4	860	860	10.8		
4396+77	4413+50	LT OF C.L. MAIN LANES	1673	1	1673	4	744	744	9.4		
4413+50											1
ENTIRE PROJECT										** 10	
TOTALS:			3608	3			1604	1604	20.2	10	1

** QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL													
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	WATTLE (20") DITCH CHECKS	SAND BAG DITCH CHECKS	ROCK DITCH CHECKS	SILT FENCE	DIVERSION DITCH	PIPE FOR SLOPE DRAINS	DUMPED RIPRAP	FILTER SOCK	SEDIMENT BASIN	OBLITERATION OF SEDIMENT BASIN	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	LIN. FT.	BAG	CU.YD.	LIN. FT.	LIN. FT.	LIN. FT.	CU.YD.	LIN.FT.	CU.YD.	CU.YD.	CU. YD.
ENTIRE	PROJECT	CLEARING AND GRUBBING						9.14	9.14	186.5		176	108	3625				160	1481	1481	1659
ENTIRE	PROJECT	STAGE 1						9.14	9.14	186.5											
ENTIRE	PROJECT	STAGE 2						2.00	2.00	40.8											
ENTIRE	PROJECT	STAGE 3/4	9.14	18.28	9.14	932.3	9.14														
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			2.29	4.58	2.29	233.6	2.29	13.96	13.96	284.8		44	24					320	370	370	370
TOTALS:			11.43	22.86	11.43	1165.9	11.43	34.24	34.24	698.6		220	132	3625				480	1851	1851	2029

BASIS OF ESTIMATE:

LIME2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
ROCK DITCH CHECKS.....3 CU.YD./LOCATION

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

*QUANTITIES ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.

FENCING				
STATION	STATION	LOCATION	WIRE FENCE	* 16'-0" GATES
			(TYPE A)	
			LIN. FT.	EACH
4392+12	4392+12	RT. OF I-30 RT. LANES	91	
4392+12	4392+12	LT. OF I-30 LT. LANES	165	
4393+84	4393+84	RT. OF I-30 RT. LANES	95	1
4393+84	4393+84	LT. OF I-30 LT. LANES	161	
TOTALS:			512	1

* DENOTES ALTERNATE BID ITEM.

APPROACH GUTTERS AND SLABS						
STATION	STATION	LOCATION	APPROACH GUTTER (TYPE SPECIAL)	APPROACH SLABS (TYPE SPECIAL)	REINFORCING STEEL-RDWY. (GR. 60)	STONE BACKFILL
			CU.YD.	CU.YD.	POUND	TON
					TON	TON
4391+52.46	4392+12.46	LT. LANES		118.67	16972	84.00
4391+52.46	4392+12.46	LT. LANES	63.61		4436	52.11
4391+53.52	4392+13.52	RT. LANES		118.67	16972	84.00
4391+53.52	4392+13.52	RT. LANES	63.61		4436	52.11
4393+82.47	4394+42.47	RT. LANES		118.67	16972	84.00
4393+82.47	4394+42.47	RT. LANES	63.61		4436	52.11
4393+83.54	4394+43.54	LT. LANES		118.67	16972	84.00
4393+83.54	4394+43.54	LT. LANES	63.61		4436	52.11
TOTALS:			254.44	474.68	85632	544.44

NOTE: USE T =14.5" FOR 10' SHOULDER.

GUARDRAIL					
STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
			LIN. FT.	EACH	
4388+58.81	4392+02.56	LT. OF I-30 RT. LANES	275	1	1
4389+09.28	4392+03.03	RT. OF I-30 RT. LANES	225	1	1
4393+93.56	4397+37.31	RT. OF I-30 LT. LANES	275	1	1
4393+94.04	4409+87.79	LT. OF I-30 LT. LANES	1525	1	1
TOTALS:			2300	4	4

RUMBLE STRIPS IN ASPHALT SHOULDERS				
STATION	STATION	LOCATION	* RUMBLE STRIPS IN ASPHALT SHOULDERS	
			LIN.FT.	
4385+00	4391+52	LT. & RT. OF I-30 LT. LANES	652	
4385+00	4391+53	LT. & RT. OF I-30 RT. LANES	653	
4394+43	4400+00	LT. & RT. OF I-30 RT. LANES	557	
4394+44	4400+00	LT. & RT. OF I-30 LT. LANES	556	
TOTAL:			2418	

* QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

STATION	STATION	DESCRIPTION	REINFORCED CONCRETE (CLASS III)	TEMPORARY CULVERTS	DROP INLETS	SOLID SODDING	WATER	STD. DWG. NOS.
			18"	18"	TYPE			
					RM			
			LIN. FT.	LIN. FT.	EACH	SQ.YD.	M.GAL.	
4407+06	4411+21	C.L. MEDIAN		415				PCC-1, PCM-1
4391+46		C.L. MEDIAN	4		1	3	0.04	FPC-9D
4394+45		C.L. MEDIAN	4		1	3	0.04	FPC-9D
TOTALS:			8	415	2	6	0.08	

BASIS OF ESTIMATE:

WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING

NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.
NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

QUANTITIES

L:\proj\4-Speed_3/30/2009_1050x2 AM
 WORKSPACE: AHTD
 Y:\Projects\ArDOT-63836-I-30 Lateral Bridge Slide Design\Civil Drawings\R012307_08B_QTY_1_001.dgn
 REVISED DATE: **REVIDATE**

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	30	68
2 QUANTITIES								

SELECTED PIPE BEDDING	
LOCATION	SELECTED PIPE BEDDING
	CU.YD.
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	50
TOTAL:	50
NOTE: QUANTITY ESTIMATED. SEE SECTION 104.03 OF THE STD. SPECS.	

CLEARING AND GRUBBING				
STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	
4388+00	4397+50	C.L. I-30	10	10
4375+00	4381+50	CROSSOVER 1A/1B		7
4406+00	4412+50	CROSSOVER 2A/2B		7
TOTALS:			10	24

BENCH MARKS		
STATION	LOCATION	BENCH MARKS
		EACH
4392+12	LEFT LANE BRIDGE END	1
TOTAL:		1
NOTE: SHOWN FOR INFORMATION ONLY. BENCH MARKS SHALL BE FURNISHED AND PLACED BY STATE FORCES.		



COLD MILLING ASPHALT PAVEMENT				
STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
4386+00.00	4388+00.00	C.L. I-30 LT. MAIN LANES	38.00	844.44
4386+00.00	4388+00.00	C.L. I-30 RT. MAIN LANES	38.00	844.44
4389+75.00	4390+50.00	C.L. I-30 LT. MAIN LANES	38.00	316.67
4397+50.00	4399+50.00	C.L. I-30 LT. MAIN LANES	41.50	922.22
4397+50.00	4399+50.00	C.L. I-30 RT. MAIN LANES	38.00	844.44
TOTAL:				3772.21
NOTE: AVERAGE MILLING DEPTH 1".				

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC		
LOCATION	TON	TACK COAT
		GALLON
ENTIRE PROJECT - TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	5	10
TOTALS:	5	10
BASIS OF ESTIMATE: ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC...25 TON/MILE TACK COAT FOR MAINTENANCE OF TRAFFIC.....50 GAL./MILE		

CONCRETE DITCH PAVING								
STATION	STATION	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER	
			LN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.	
4391+82.00	4392+13.00	LT. OF I-30 LT. LANES	31.00	10.75	37.03	13.78	0.17	
4391+82.00	4392+13.00	RT. OF I-30 RT. LANES	31.00	8.25	28.42	13.78	0.17	
4393+84.00	4394+15.00	LT. OF I-30 LT. LANES	31.00	8.33	28.69	13.78	0.17	
4393+84.00	4394+15.00	RT. OF I-30 RT. LANES	31.00	10.50	36.17	13.78	0.17	
TOTALS:					130.31	55.12	0.68	
BASIS OF ESTIMATE: WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.								

BASE AND SURFACING																					
STATION	STATION	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		TACK COAT				ACHM BASE COURSE (1 1/2")				ACHM BINDER COURSE (1")				ACHM SURFACE COURSE (1/2")			
				TON / STATION	TON	AVG. WID.	SQ.YD.	GALLONS / SQ.YD.	GALLON	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 76-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 76-22	AVG. WID.	SQ.YD.	POUND / SQ.YD.	TOTAL PG 76-22 TON
			FEET			FEET				FEET			TON	FEET			TON	FEET			TON
MAIN LANES																					
4386+00.00	4388+00.00	C.L. I-30 RT. MAIN LANES TRANSITION	200.00			38.00	844.44	0.17	143.55									38.00	844.44	220.00	92.89
4386+00.00	4388+00.00	C.L. I-30 LT. MAIN LANES TRANSITION	200.00			38.00	844.44	0.17	143.55									38.00	844.44	220.00	92.89
4388+00.00	4391+53.52	C.L. I-30 RT. MAIN LANES	353.52			38.00	1492.64	0.05	74.63									38.00	1492.64	220.00	164.19
4388+00.00	4391+53.52	C.L. I-30 RT. MAIN LANES - INSIDE WIDENING	353.52	127.00	448.97	36.36	1428.22	0.05	71.41	18.52	727.47	1210.00	440.12	18.23	716.07	330.00	118.15	18.13	712.15	220.00	78.34
4388+00.00	4391+52.46	C.L. I-30 LT. MAIN LANES	352.46			38.00	1488.16	0.05	74.41									38.00	1488.16	220.00	163.70
4388+00.00	4391+52.46	C.L. I-30 LT. MAIN LANES - INSIDE WIDENING	352.46	127.00	447.62	36.36	1423.94	0.05	71.20	18.52	725.28	1210.00	438.79	18.23	713.93	330.00	117.80	18.13	710.01	220.00	78.10
4394+42.47	4397+50.00	C.L. I-30 RT. MAIN LANES	307.53			38.00	1298.46	0.05	64.92									38.00	1298.46	220.00	142.83
4394+42.47	4397+50.00	C.L. I-30 RT. MAIN LANES - INSIDE WIDENING	307.53	127.00	390.56	36.36	1242.42	0.05	62.12	18.52	632.83	1210.00	382.86	18.23	622.92	330.00	102.78	18.13	619.50	220.00	68.15
4394+43.54	4397+50.00	C.L. I-30 LT. MAIN LANES	306.46			38.00	1293.94	0.05	64.70									38.00	1293.94	220.00	142.33
4394+43.54	4397+50.00	C.L. I-30 LT. MAIN LANES - INSIDE WIDENING	306.46	127.00	389.20	36.36	1238.10	0.05	61.91	18.52	630.63	1210.00	381.53	18.23	620.75	330.00	102.42	18.13	617.35	220.00	67.91
4397+50.00	4399+50.00	C.L. I-30 RT. MAIN LANES TRANSITION	200.00			38.00	844.44	0.17	143.55									38.00	844.44	220.00	92.89
4397+50.00	4399+50.00	C.L. I-30 LT. MAIN LANES TRANSITION	200.00			38.00	844.44	0.17	143.55									38.00	844.44	220.00	92.89
MAINTENANCE OF TRAFFIC																					
11+87.99	14+87.48	CROSSOVER 1A	299.49			35.23	1172.34	0.05	58.62	17.88	594.99	880.00	261.80	17.35	577.35	495.00	142.89	25.00	831.92	220.00	91.51
21+85.59	23+03.74	CROSSOVER 1B	118.15			35.23	462.49	0.05	23.12	17.88	234.72	880.00	103.28	17.35	227.77	495.00	56.37	25.00	328.19	220.00	36.10
23+62.66	24+86.13	CROSSOVER 1B	123.47			35.23	483.32	0.05	24.17	17.88	245.29	880.00	107.93	17.35	238.02	495.00	58.91	25.00	342.97	220.00	37.73
31+71.48	34+67.78	CROSSOVER 2A	296.30			35.23	1159.85	0.05	57.99	17.88	588.65	880.00	259.01	17.35	571.20	495.00	141.37	25.00	823.06	220.00	90.54
41+73.02	42+94.34	CROSSOVER 2B	121.32			35.23	474.90	0.05	23.75	17.88	241.02	880.00	106.05	17.35	233.88	495.00	57.89	25.00	337.00	220.00	37.07
43+53.27	44+69.09	CROSSOVER 2B	115.82			35.23	453.37	0.05	22.67	17.88	230.10	880.00	101.24	17.35	223.28	495.00	55.26	25.00	321.72	220.00	35.39
ADDITIONAL FOR LEVELING & SUPERELEVATION CORRECTION																					
4388+00.00	4391+53.52	C.L. I-30 RT. MAIN LANES	353.52			38.00	1492.64	0.17	253.75									38.00	1492.64	679.33	507.00
4394+42.47	4397+50.00	C.L. I-30 RT. MAIN LANES	307.53			38.00	1298.46	0.17	220.74									38.00	1298.46	679.33	441.04
4388+00.00	4391+52.46	C.L. I-30 LT. MAIN LANES	352.46			38.00	1488.16	0.17	252.99									38.00	1488.16	679.33	505.48
4394+43.54	4397+50.00	C.L. I-30 LT. MAIN LANES	306.46			38.00	1293.94	0.17	219.97									38.00	1293.94	679.33	439.51
ADDITIONAL FOR GUARDRAIL WIDENING																					
4388+16.69	4392+02.69	C.L. I-30 LT. OF RT. MAIN LANES	386.00	18.97	73.22													4.95	212.30	220.00	23.35
4388+65.15	4392+03.04	C.L. I-30 RT. OF RT. MAIN LANES	337.89	18.97	64.10													3.96	148.67	220.00	16.35
4393+93.70	4397+81.40	C.L. I-30 RT. OF LT. MAIN LANES	387.70	18.97	73.55													3.82	164.56	220.00	18.10
4393+94.04	4409+87.79	C.L. I-30 LT. OF LT. MAIN LANES	1593.75	18.97	302.33													4.50	796.88	220.00	87.66
TOTALS:					2189.55		24063.11		2277.27		4850.98		2582.61		4745.17		953.84		21490.44		3643.94

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.7% MIN. AGGR.....5.3% ASPHALT BINDER
 ACHM BINDER COURSE (1").....95.6% MIN. AGGR.....4.4% ASPHALT BINDER
 ACHM BASE COURSE (1 1/2").....96.0% MIN. AGGR.....4.0% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 205 FOR PG 76-22
 TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

Leonard.Speed 3/30/2019 10:50:44 AM
WORKSPACE: AHTD
Y:\Projects\ArDOT\63836.1-30 Lateral Bridge Slide\Design\BRIDGE\Drawings\B012307_QXL.dgn
REVISED DATE:

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	31	68
				A&B7427 - QUANTITIES - 60302				

SCHEDULE OF BRIDGE QUANTITIES - JOB NO. 012307

BRIDGE NUMBER	NAME PLATE TITLE	UNIT OF STRUCTURE	ITEM NUMBER	205	801	SS & 802	SP,SS,& 802	803	804	804	SS & 805	SP,SS,& 807	SS & 808	812	816	816	SP JOB 012307	SP JOB 012307	SP JOB 012307	SP JOB 012307	SP JOB 012307	SP JOB 012307	SP JOB 012307
			ITEM	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. .)	UNCLASSIFIED EXCAVATION FOR STRUCTURES -BRIDGE	CLASS S CONCRETE -BRIDGE	CLASS S(AE) CONCRETE -BRIDGE	CLASS I PROTECTIVE SURFACE TREATMENT	REINFORCING STEEL-BRIDGE (GRADE 60)	EPOXY COATED REINFORCING STEEL (GRADE 60)	① STEEL PILING (HP 12X53)	STRUCTURAL STEEL IN PLATE GIRDER SPANS (M 270,GR 50W)	ELASTOMERIC BEARINGS	BRIDGE NAME PLATE (TYPE D)	DUMPED RIPRAP	FILTER BLANKET	DRILLED SHAFT (72" DIA.)	PERMANENT STEEL CASING (84" DIA.)	CROSSHOLE SONIC LOGGING (72" DIA.)	CORING DRILLED SHAFT	TEMPORARY FALSEWORK (SITE NO. .)	BRIDGE JACKING (SITE NO. .)	LATERAL SLIDE (SITE NO. .)
			UNIT	LUMP SUM	CU. YD.	CU. YD.	CU. YD.	GAL.	POUND	POUND	LIN. FT.	POUND	CU. IN.	EACH	CU. YD.	SQ. YD.	LIN. FT.	LIN. FT.	EACH	LIN. FT.	LUMP SUM	LUMP SUM	LUMP SUM
A7427	INTERSTATE 30 OVER DE ROCHE CREEK	END BENT NO. 1			III	141.22			33,160		20		3,754		232	426	74	30	2	37			
		END BENT NO. 2			145	140.08			33,160		30		3,754		422	788	84	30	2	42			
		170'-0" COMP. PLATE GIRDER SPAN					426.70	24.7		91,490		510,390		I									
		SITE NO. 1 (BRIDGE A3853)		I																	I	I	I
		TOTAL FOR BRIDGE NO. A7427		I	256	281.30	426.70	24.7	66,320	91,490	50	510,390	7,508	I	654	1,214	158	60	4	79	I	I	I
B7427	INTERSTATE 30 OVER DE ROCHE CREEK	END BENT NO. 1			157	141.85			33,160		20		3,754		332	617	74	30	2	37			
		END BENT NO. 2			149	140.65			33,160		30		3,754		402	750	82	30	2	41			
		170'-0" COMP. PLATE GIRDER SPAN					430.80	24.7		92,570		510,390		I									
		SITE NO. 2 (BRIDGE B3853)		I																	I	I	I
		TOTAL FOR BRIDGE NO. B7427		I	306	282.50	430.80	24.7	66,320	92,570	50	510,390	7,508	I	734	1,367	156	60	4	78	I	I	I
		TOTALS FOR JOB NO. 012307			562	563.80	857.50	49.4	132,640	184,060	100	1,020,780	15,016	2	1,388	2,581	314	120	8	157			

① Steel Piles are required to be Grade 50 and have approved driving points which will not be paid for directly, but shall be considered subsidiary to Item "Steel Piling (HP 12x53)". All piles shall conform to Std. Dwg. No. 55020.



BRIDGE ENGINEER
PRINT DATE: 3/30/2019

SCHEDULE OF BRIDGE QUANTITIES
DE ROCHE CREEK STRS. & APPRS. (S)
CLARK AND HOT SPRING COUNTIES
ROUTE 30 SECTIONS 14 & 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DRAWN BY: MKL
CHECKED BY: SFH
DESIGNED BY: --
BRIDGE NO. A&B7427
DATE: 02/2019
DATE: 02/2019
DATE: --
SCALE: No Scale
DRAWING NO. 60302
FILENAME: B012307_QXL.dgn

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REVISED DATE: \$*REVIDATE\$\$

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
04/25/2019		08/01/2019		6	ARK.			
05/02/2019		06/10/2020						
06/10/2019		08/14/2020						
				JOB NO.		012307	32	68
2 SUMMARY OF QUANTITIES AND REVISIONS								



ITEM NUMBER	ITEM	QUANTITY	UNIT
201	CLEARING	10	STATION
201	GRUBBING	24	STATION
202	REMOVAL AND DISPOSAL OF FENCE	830	LIN. FT.
202	REMOVAL AND DISPOSAL OF APPROACH SLABS	4	EACH
202	REMOVAL AND DISPOSAL OF APPROACH GUTTERS	8	EACH
SP	REMOVAL OF RUMBLE STRIP	2600	LIN. FT.
SP & 202	REMOVAL AND DISPOSAL OF WIRE ROPE SAFETY FENCE	3865	LIN. FT.
202	REMOVAL AND DISPOSAL OF GUARDRAIL	2487	LIN. FT.
SP & 207	STONE BACKFILL	2730	TON
210	UNCLASSIFIED EXCAVATION	5402	CU. YD.
210	COMPACTED EMBANKMENT	9358	CU. YD.
SP & 210	SOIL STABILIZATION	10	TON
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	2734	TON
SS & 401	TACK COAT	2287	GAL.
SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")	2480	TON
SP, SS, & 405	ASPHALT BINDER (PG 76-22) IN ACHM BASE COURSE (1 1/2")	103	TON
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")	912	TON
SP, SS, & 406	ASPHALT BINDER (PG 76-22) IN ACHM BINDER COURSE (1")	42	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	3451	TON
SP, SS, & 407	ASPHALT BINDER (PG 76-22) IN ACHM SURFACE COURSE (1/2")	193	TON
412	COLD MILLING ASPHALT PAVEMENT	3772	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC	5	TON
504	APPROACH SLABS	474.68	CU. YD.
504	APPROACH GUTTERS	254.44	CU. YD.
601	MOBILIZATION	1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE	1	EACH
SP & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SP & 603	TRAFFIC CONTROL SUPERVISOR	1.00	LUMP SUM
603	18" TEMPORARY CULVERT	415	LIN. FT.
SS & 604	SIGNS	1747	SQ. FT.
SS & 604	BARRICADES	176	LIN. FT.
SS & 604	TRAFFIC DRUMS	282	EACH
604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	7806	LIN. FT.
SP	MOBILE SPEED NOTIFICATION SYSTEM	2	EACH
604	RELOCATING PRECAST CONCRETE BARRIER	15637	LIN. FT.
604	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	54079	LIN. FT.
604	ADVANCE WARNING ARROW PANEL	30	DAY
SP & 604	PORTABLE CHANGEABLE MESSAGE SIGN	12	WEEK
SP	MODULAR GLARE SHIELD	800	LIN. FT.
SP	PORTABLE CONSTRUCTION LIGHTING	32	DAY
SP	AWIS MOBILIZATION	1.00	LUMP SUM
SP	AWIS OPERATION	14	MONTH
SP	DEVICE RELOCATION	5	EACH
SP	FURNISH AND INSTALL CLOSED CIRCUIT TELEVISION SYSTEM	1	EACH
SP	FURNISH AND INSTALL PUBLIC NOTIFICATION SYSTEM	2	EACH
SP	FURNISH AND INSTALL VARIABLE MESSAGE SIGN	4	EACH
SP	FURNISH AND INSTALL VEHICLE DETECTION SYSTEM	7	EACH
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE B)	1734	SQ. YD.
606	SELECTED PIPE BEDDING	50	CU. YD.
610	DROP INLETS ADJUSTED TO GRADE	2	EACH
617	GUARDRAIL (TYPE B)	2300	LIN. FT.
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	4	EACH
SS & 617	THRIE BEAM GUARDRAIL TERMINAL	4	EACH
SP	TEMPORARY TERMINAL ANCHOR FOR WIRE ROPE SAFETY FENCE	1	EACH
SP	WIRE ROPE SAFETY FENCE	3608	LIN. FT.
SP	WIRE ROPE SAFETY FENCE END TERMINAL	3	EACH
SP	WIRE ROPE SAFETY FENCE (POST REPAIR)	10	EACH
619	WIRE FENCE (TYPE A)	512	LIN. FT.
* 619	16' STEEL GATES (ALTERNATE NO. 1)	1	EACH
* 619	16' ALUMINUM GATES (ALTERNATE NO. 2)	1	EACH
620	LIME	23	TON
620	SEEDING	11.43	ACRE
SS & 620	MULCH COVER	45.67	ACRE
620	WATER	1885.5	M. GAL.
621	TEMPORARY SEEDING	34.24	ACRE
621	SILT FENCE	3625	LIN. FT.
621	SAND BAG DITCH CHECKS	220	BAG
621	SEDIMENT BASIN	1851	CU. YD.
621	OBLITERATION OF SEDIMENT BASIN	1851	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL	2029	CU. YD.
621	ROCK DITCH CHECKS	132	CU. YD.
SS & 621	FILTER SOCK (18")	480	LIN. FT.
623	SECOND SEEDING APPLICATION	11.43	ACRE
624	SOLID SODDING	1665	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
642	RUMBLE STRIPS IN ASPHALT SHOULDERS	2418	LIN. FT.
SP	ENHANCED THERMOPLASTIC PAVEMENT MARKING WHITE (6")	3375	LIN. FT.
SP	ENHANCED THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	5305	LIN. FT.
721	RAISED PAVEMENT MARKERS (TYPE II)	34	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER	6	EACH
731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	6	EACH
SS & 804	REINFORCING STEEL-ROADWAY (GRADE 60)	85632	POUND

* DENOTES ALTERNATE BID ITEMS.

ITEM NUMBER	ITEM	QUANTITY	UNIT
STRUCTURES OVER 20' SPAN			
205	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. 1)	1.00	LUMP SUM
205	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. 2)	1.00	LUMP SUM
636	BRIDGE CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	TEMPORARY FALSEWORK (SITE NO. 1)	1.00	LUMP SUM
SP	TEMPORARY FALSEWORK (SITE NO. 2)	1.00	LUMP SUM
SP	BRIDGE JACKING (SITE NO. 1)	1.00	LUMP SUM
SP	BRIDGE JACKING (SITE NO. 2)	1.00	LUMP SUM
SP	LATERAL SLIDE (SITE NO. 1)	1.00	LUMP SUM
SP	LATERAL SLIDE (SITE NO. 2)	1.00	LUMP SUM
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGE	562	CU. YD.
SS & 802	CLASS S CONCRETE-BRIDGE	563.80	CU. YD.
SP, SS, & 802	CLASS S(AE) CONCRETE-BRIDGE	857.50	CU. YD.
803	CLASS 1 PROTECTIVE SURFACE TREATMENT	49.4	GAL.
SS & 804	REINFORCING STEEL-BRIDGE (GRADE 60)	132640	POUND
SS & 804	EPOXY COATED REINFORCING STEEL (GRADE 60)	184060	POUND
SS & 805	STEEL PILING (HP 12X53)	100	LIN. FT.
SP	CORING DRILLED SHAFT	157	LIN. FT.
SP	DRILLED SHAFT (72" DIAMETER)	314	LIN. FT.
SP	PERMANENT STEEL CASING (84" DIAMETER)	120	LIN. FT.
SP	CROSSHOLE SONIC LOGGING (72" DIAMETER)	8	EACH
SP, SS, & 807	STRUCTURAL STEEL IN PLATE GIRDER SPANS (M270-GR50W)	1020780	POUND
SS & 808	ELASTOMERIC BEARINGS	15016	CU. IN.
812	BRIDGE NAME PLATE (TYPE D)	2	EACH
816	DUMPED RIPRAP	1388	CU. YD.
816	FILTER BLANKET	2581	SQ. YD.
SP & 822	BRIDGE DECK REPAIR	230	SQ. YD.

DATE	REVISION	SHEET NUMBER
4/25/2019	ADDED MOBILE SPEED NOTIFICATION SYSTEMS. REMOVED SETTLEMENT AGREEMENT SPECIAL PROVISION AND ADDED MOBILE SPEED NOTIFICATION SYSTEMS SPECIAL REVISION.	3, 28 , 32
5/2/2019	ADDED "WORK WITH US SIGN" QUANTITY	29, 32
6/10/2019	ADDED "WORK WITH US SIGN" SPECIAL DETAIL AND REVISED SIGN QUANTITY. REVISED MOT SP, REMOVED SITE USE (A+C) SP, AND ADDED SITE USE (A+B+C) SP. REMOVED 18" RCP QUANTITY, REMOVED TYPE RM DROP INLET QUANTITY, ADDED QUANTITY FOR DROP INLETS ADJUSTED TO GRADE. ADDED QUANTITY AND SP FOR PATCHING BRIDGE DECK.	3, 5-6, 28-29, 31-32, 39, 65-66
8/1/2019	REVISED BEAM SEAT ELEVATION FOR BRIDGE NO. B7427 (END BENT 1,GIRDER 5)	32 , 53
06/10/2020	SHIFTED LOCATION OF INTERIOR SLEEPER BEAMS ON APPROACH SLABS.	32 , 61-62
08/14/2020	REVISED CONCRETE RESTRAINER BLOCK DIMENSIONING	32, 46, 48

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WORKSPACE: AHTD
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REVISED DATE: **REVIDATE**

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	33	68

2 SURVEY CONTROL DETAILS



SURVEY CONTROL COORDINATES

Project Name: s070460
Date: 3/1/2017
Coordinate System: ARKANSAS STATE PLANE - SOUTH ZONE BASED ON GPS CONTROL, 100029 - 100029A
PROJECTED TO GROUND.
Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	1875704.8057	999139.7803	264.413	CTL	STD AHTD MON. STAMPED PN: 1 1-30
2	1876153.8556	999756.3358	252.239	CTL	STD AHTD MON. STAMPED PN: 2 1-30
3	1876644.8663	1000412.6316	236.029	CTL	STD AHTD MON. STAMPED PN: 3 1-30
4	1877036.7341	1000845.4880	229.742	CTL	STD AHTD MON. STAMPED PN: 4 1-30
5	1877575.8140	1001430.3010	245.766	CTL	STD AHTD MON. STAMPED PN: 5 1-30
6	1878142.9614	1002031.5025	270.356	CTL	STD AHTD MON. STAMPED PN: 6 1-30
7	1878687.7448	1002604.6434	293.385	CTL	STD AHTD MON. STAMPED PN: 7 1-30
100	1873293.8014	999100.3822	252.771	GPS	AHTD GPS MON 100029
101	1873980.7275	1000878.1129	205.146	GPS	AHTD GPS MON 100029A
900	1875918.0587	999426.0094	258.555	TBM	SQ CUT S SIDE CONC DI TOPO REFERENCES
901	1876155.8558	999745.2135	251.323	TBM	SQ CUT S END OF CONC DI 1-30
902	1876334.5587	999986.5593	244.550	TBM	SQ CUT S END CONC DI TOPO REFERENCES
903	1876909.9658	1000670.2465	231.872	TBM	SQ CUT SE CRNR BR S BOUND 1-30
904	1877050.5603	1000828.6826	231.896	TBM	SQ CUT NE CRNR BR S BOUND 1-30
905	1877372.2999	1001200.9526	235.548	TBM	SQUARE CUT IN DI TOPO REFERENCES 1-30
906	1877648.7075	1001490.4704	246.989	TBM	SQUARE CUT IN S END OF DI 1-30
907	1877925.4381	1001781.7333	258.853	TBM	SQUARE CUT IN S END OF DI 1-30
908	1878293.4238	1002168.4266	274.634	TBM	SQUARE CUT IN S END OF DI 1-30
909	1878569.5773	1002458.2814	285.942	TBM	SQUARE CUT IN S END OF DI 1-30
910	1878851.0583	1002751.5835	298.463	TBM	SQUARE CUT IN S END OF DI 1-30

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped
*(standard markings common to all caps), or as indicated
(other markings indicated in the point description of the individual point).
ALL DISTANCES ARE GROUND.
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.
A PROJECT CAF OF 0.9999111221 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME s070460gi.CTL
HORIZONTAL DATUM: NAD 83 (1997)
VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE
AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL
IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS - 0302-SOUTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 100029 - 100029A
CONVERGENCE ANGLE: 00-34-37 LEFT AT PN: 4 LT: 34-12-50N LG: 093-01-50W
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	34	68
				2 SURVEY CONTROL DETAILS				



ALIGNMENT NAME: C.L. I-30				
POINT	STATION	TYPE	NORTHING	EASTING
8000	4371+78.45	POB	1875668.9250	999090.4215
8001	4382+99.20	PC	1876337.1642	999990.1618
	4390+02.15	PI	1876756.2973	1000554.4970
8002		CC	1885536.6128	993157.7098
8003	4397+03.35	PT	1877241.2658	1001063.3706
8004	4416+92.38	POE	1878613.4943	1002503.2390

ALIGNMENT NAME: CROSSOVER 1A				
POINT	STATION	TYPE	NORTHING	EASTING
8005	10+00.00	PC	1875830.5409	999370.9205
	11+63.20	PI	1875927.8484	999501.9386
8006		CC	1876980.4720	998516.8640
8007	13+25.00	PT	1876052.1345	999607.7093
8008	13+32.00	PC	1876057.4687	999612.2489
	14+95.21	PI	1876181.7549	999718.0196
8009		CC	1875129.1312	1000703.0942
8010	16+57.00	PT	1876279.0623	999849.0376

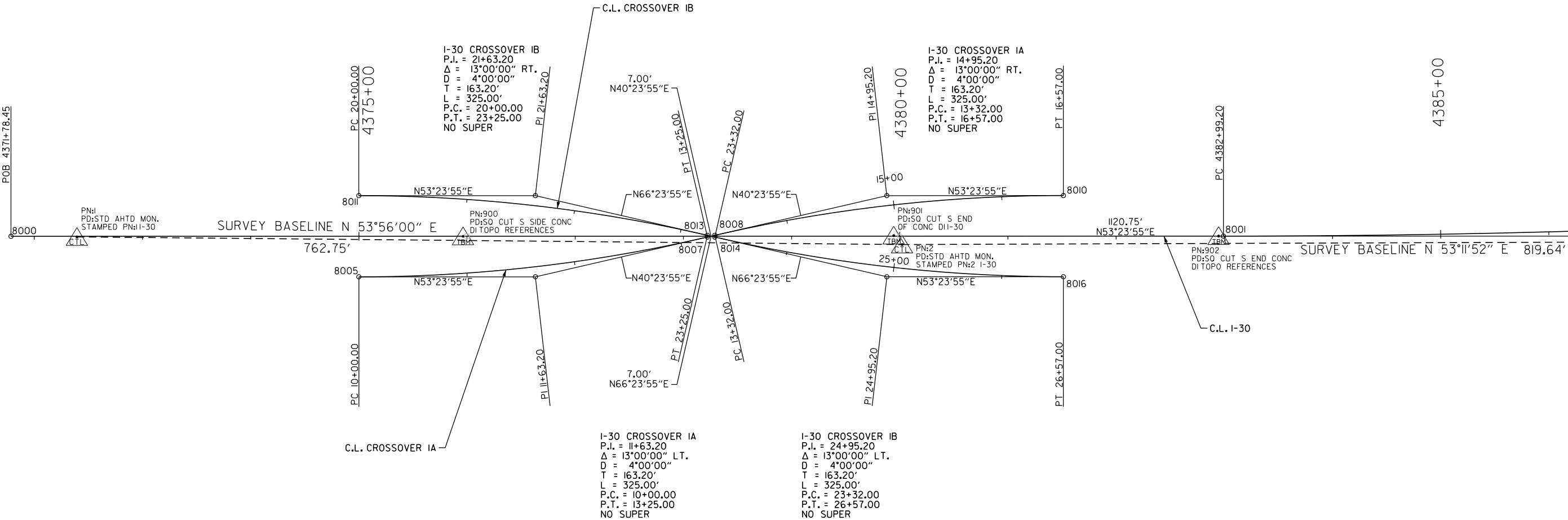
ALIGNMENT NAME: CROSSOVER 1B				
POINT	STATION	TYP	NORTHING	EASTING
8011	20+00.00	PC	1875890.7512	999326.2022
	21+63.20	PI	1875988.0586	999457.2203
8012		CC	1874740.8201	1000180.2587
8013	23+25.00	PT	1876053.3995	999606.7698
8014	23+32.00	PC	1876056.2038	999613.1883
	24+95.21	PI	1876121.5446	999762.7378
8015		CC	1877368.7831	999039.6994
8016	26+57.00	PT	1876218.8521	999893.7559

ALIGNMENT NAME: CROSSOVER 2A				
POINT	STATION	TYP	NORTHING	EASTING
8017	30+00.00	PC	1877887.0089	1001686.5879
	31+63.20	PI	1877999.6010	1001804.7299
8018		CC	1876850.0905	1002674.7955
8019	33+25.00	PT	1878082.7311	1001945.1715
8020	33+32.00	PC	1878086.2990	1001951.1991
	34+95.21	PI	1878169.4291	1002091.6408
8021		CC	1879318.9395	1001221.5751
8022	36+57.00	PT	1878282.0212	1002209.7827

ALIGNMENT NAME: CROSSOVER 2B				
POINT	STATION	TYP	NORTHING	EASTING
8023	40+00.00	PC	1877832.7160	1001738.3304
	41+63.20	PI	1877945.3080	1001856.4723
8024		CC	1878869.6344	1000750.1228
8025	43+25.00	PT	1878081.5905	1001946.2586
8026	43+32.00	PC	1878087.4396	1001950.1121
	44+95.21	PI	1878223.7220	1002039.8983
8027		CC	1877299.3957	1003146.2479
8028	46+57.00	PT	1878336.3141	1002158.0403

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				JOB NO.		012307	35	68
2 SURVEY CONTROL DETAILS								



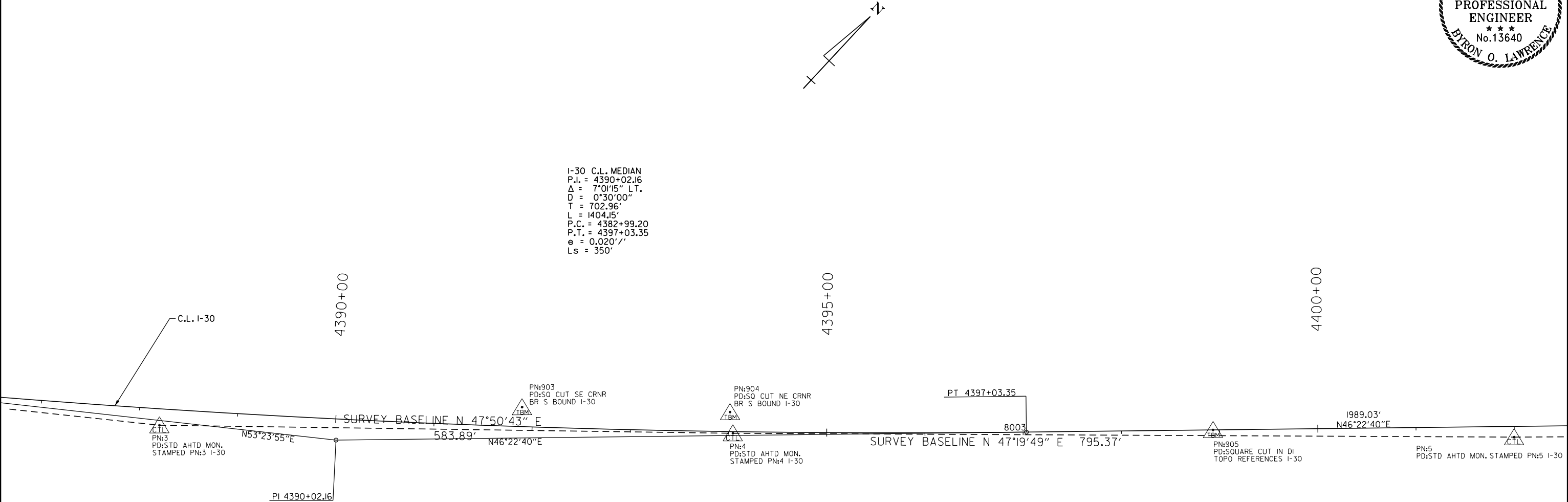
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				6	ARK.			
				JOB NO.		012307	36	68

2 SURVEY CONTROL DETAILS



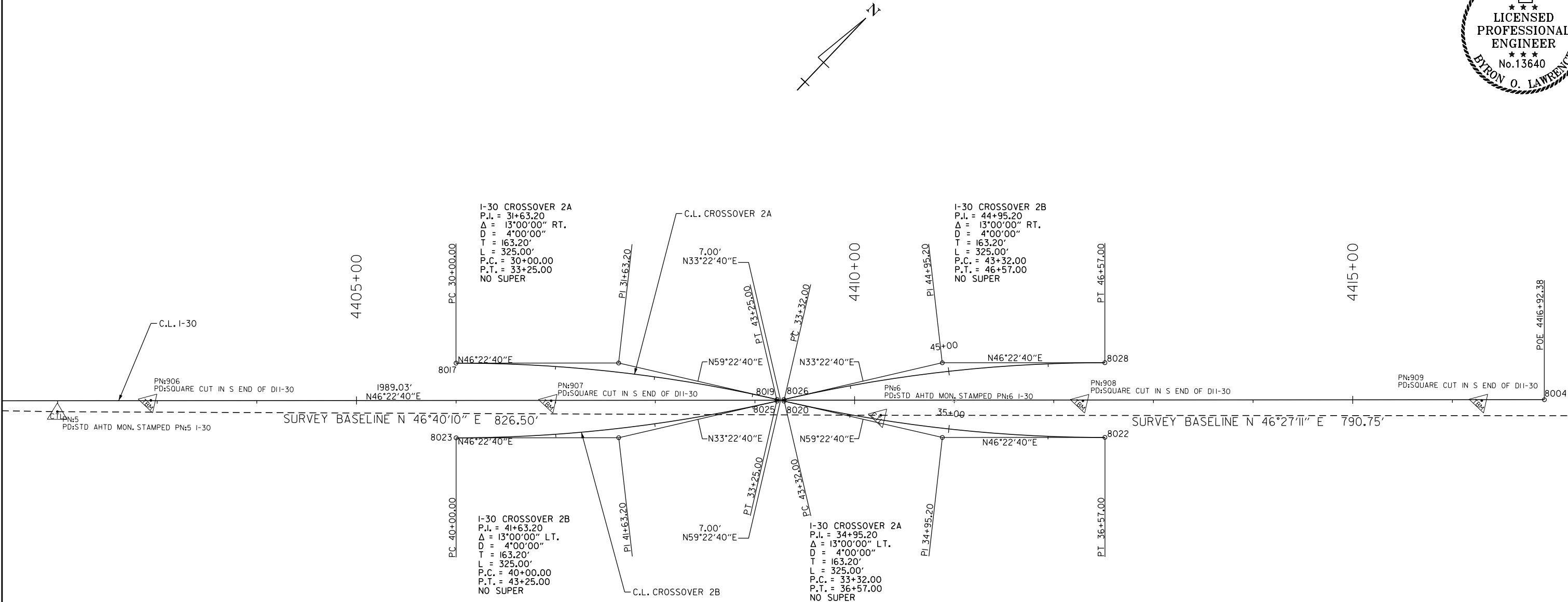
I-30 C.L. MEDIAN
P.I. = 4390+02.16
Δ = 7°01'15" LT.
D = 0°30'00"
T = 702.96'
L = 1404.15'
P.C. = 4382+99.20
P.T. = 4397+03.35
e = 0.020'/'
Ls = 350'



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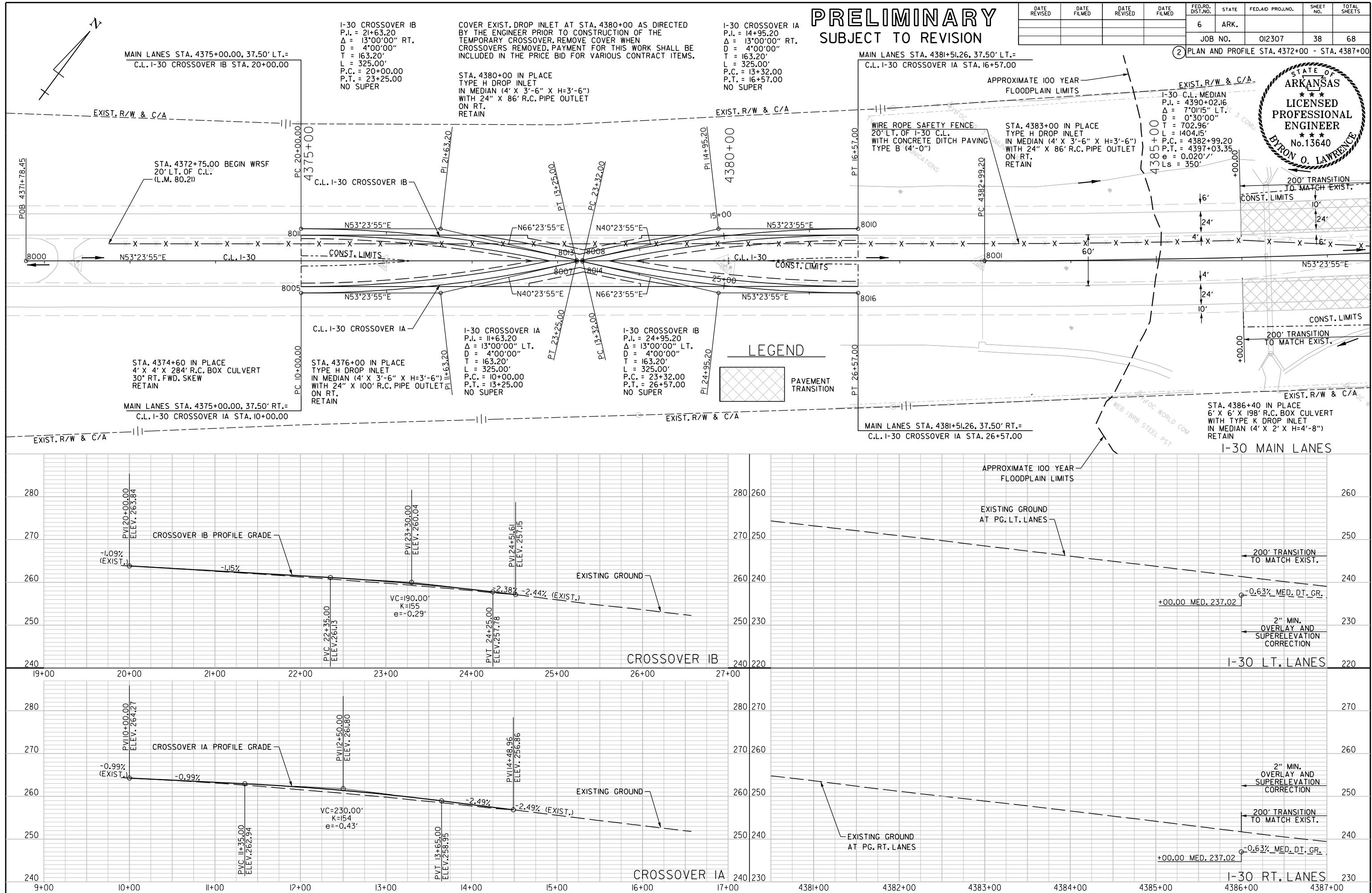
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				6	ARK.			
				JOB NO.		012307	37	68

2 SURVEY CONTROL DETAILS



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
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(2) PLAN AND PROFILE STA. 4372+00 - STA. 4387+00								

PRELIMINARY
SUBJECT TO REVISION



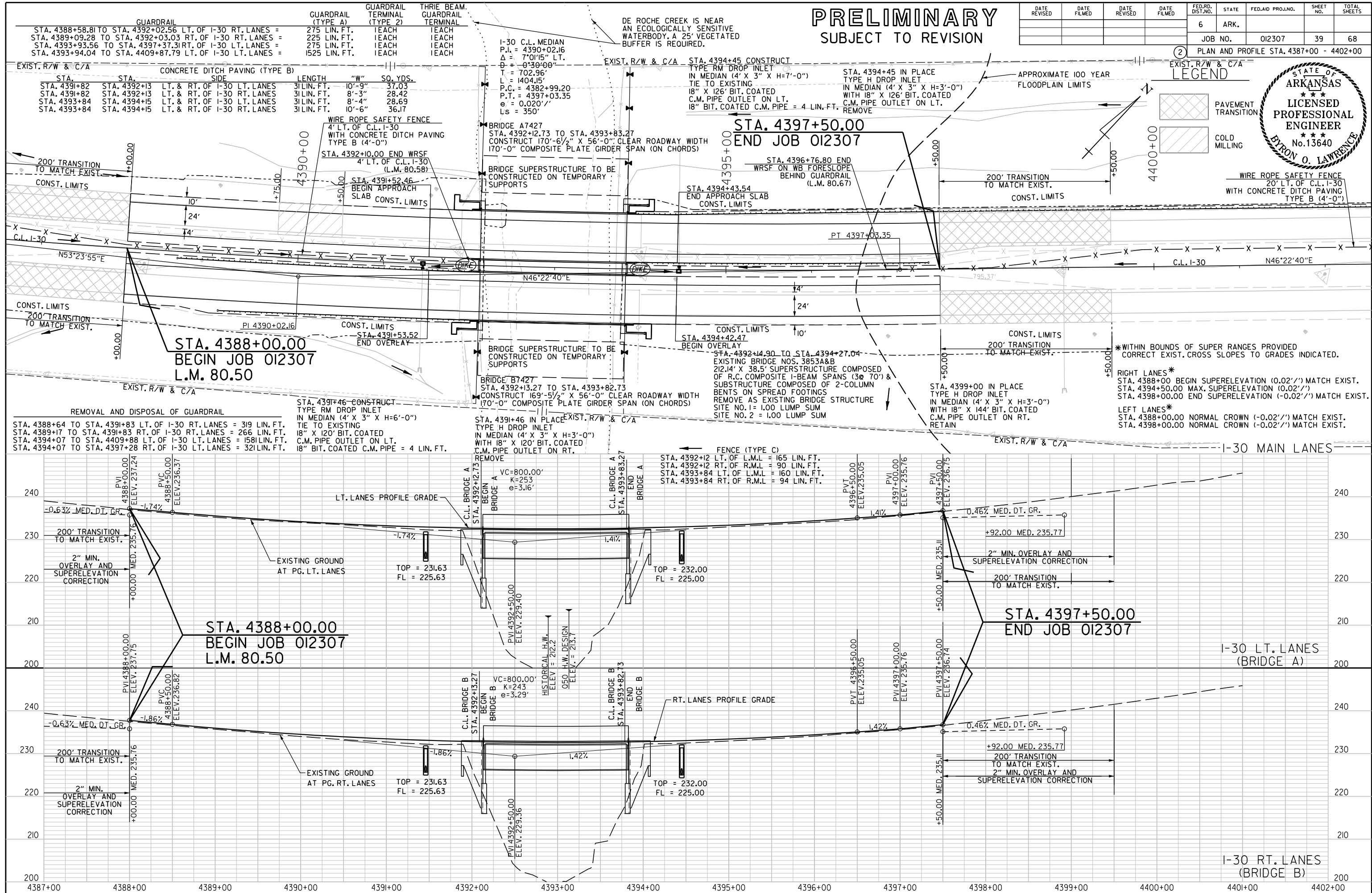
STATE OF
ARKANSAS

LICENSED
PROFESSIONAL
ENGINEER

No. 13640
BYRON O. LAWRENCE

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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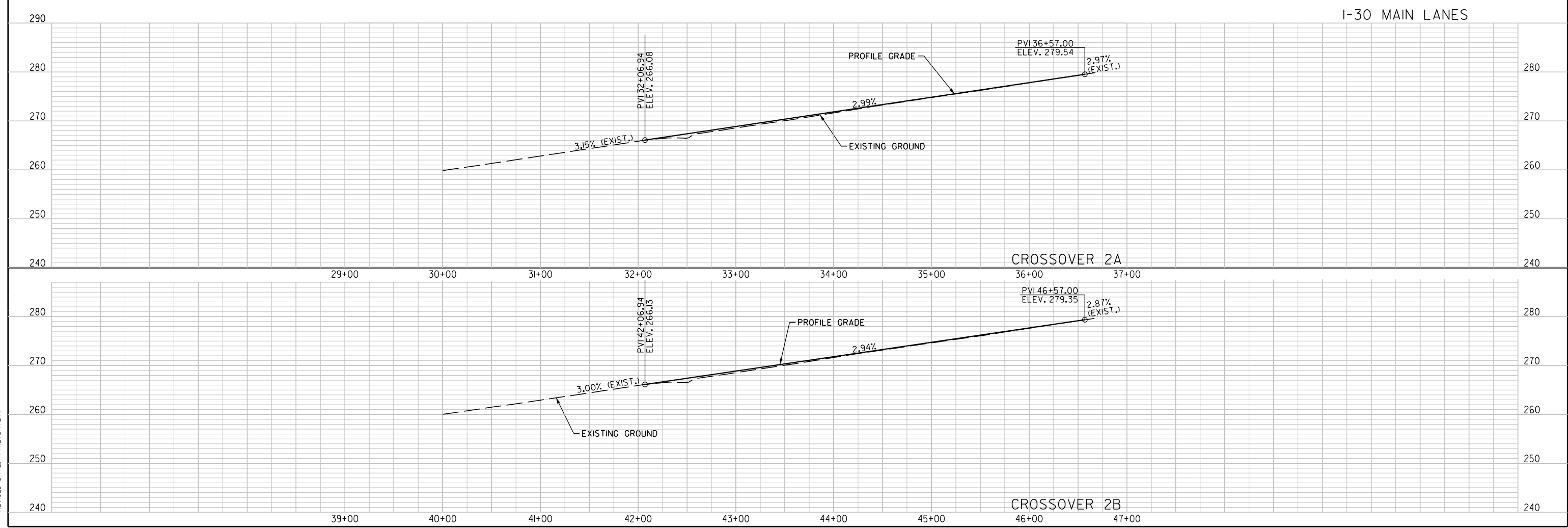
STATE OF ARKANSAS
 LICENSED PROFESSIONAL ENGINEER
 No. 13640
 BYRON O. LAWRENCE



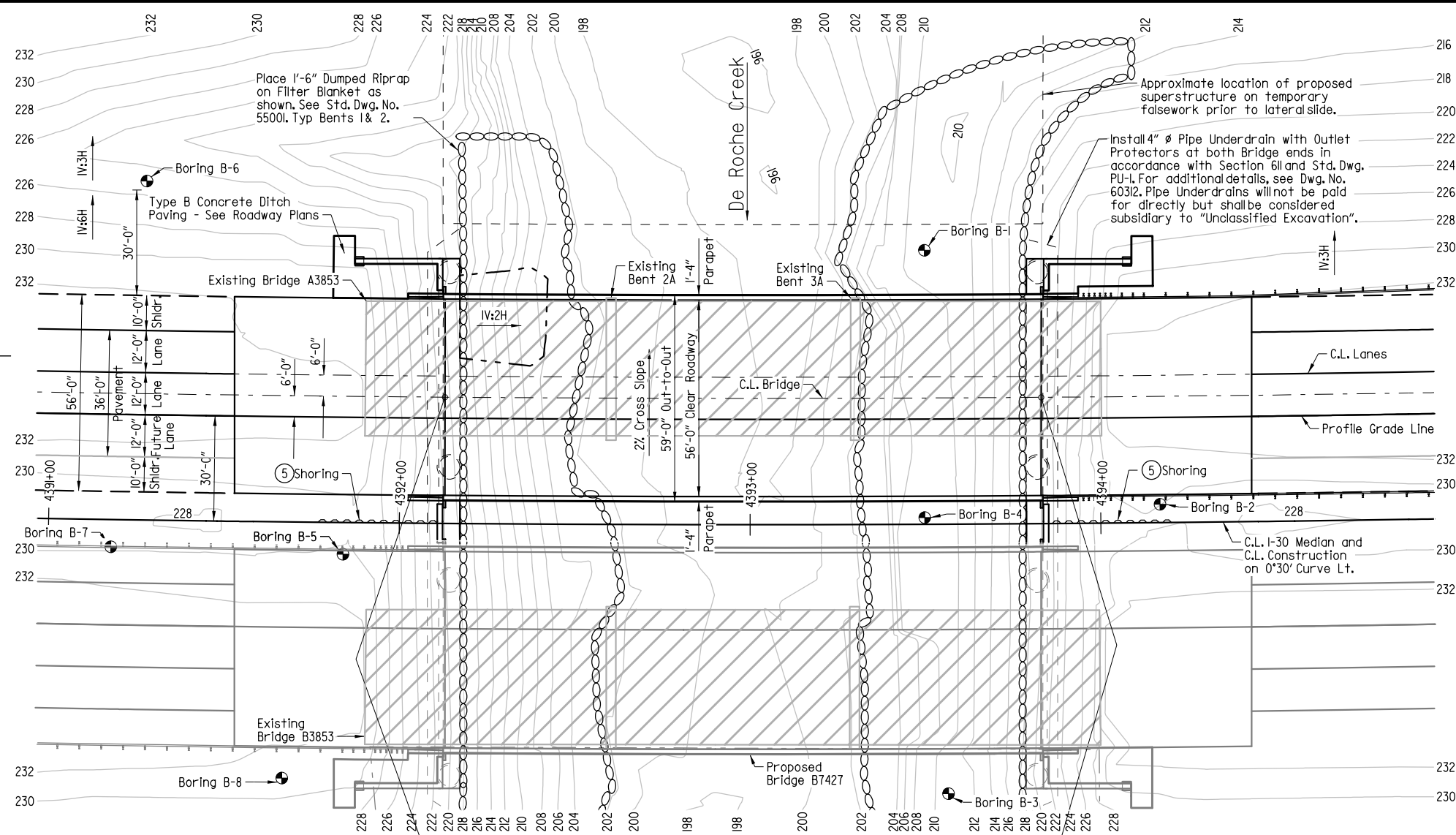
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REVISED DATE: \$\$\$REDATE\$\$\$

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	40	68

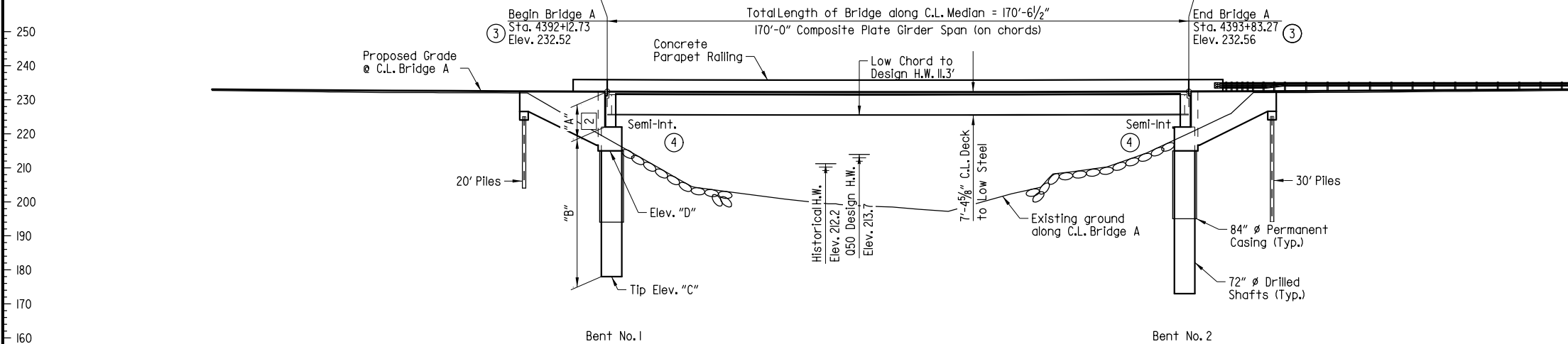
A circular seal with a rope-like border. The text inside the seal reads: "STATE OF ARKANSAS" at the top, "LICENSED PROFESSIONAL ENGINEER" in the center, "No. 13640" below that, and "BYRON O. LAWRENCE" at the bottom. There are three stars above and below the license number.



3/29/2019 3:50:01 PM
WORKSPACE: ARDOT
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REVISED DATE:



PLAN - BRIDGE A



ELEVATION - BRIDGE A
Along C.L. Bridge

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"
Bridge A - Bent No. 1	10'-6 1/4"	44'-0"	178	215
Bridge A - Bent No. 2	10'-6 3/4"	49'-0"	173	215

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 012307	41	68

HORIZONTAL CURVE DATA

Note:
Use Type Special Approach Slabs and Gutters at both ends of bridge, See Dwg. Nos. 60323 to 60325.
For General Notes, see Dwg. No. 60305.
For Boring Legend, see Dwg. No. 60305.

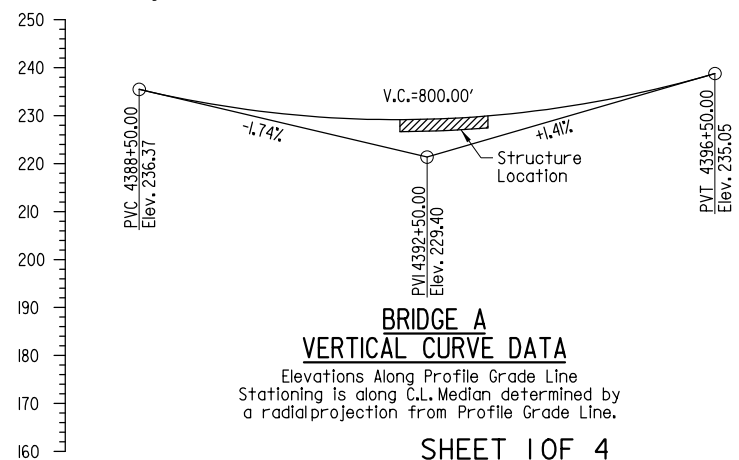
C.L. I-30 Median
P.L. = 4390+02.16
A = 7°01'15" LT.
D = 0°30'00"
T = 702.96'
L = 1404.15'

Note:
C.L. Median is on a 0°30'00" Curve left. Longitudinal lines shall be constructed on curves concentric w/ C.L. Median Stations. Begin/End Bridge Lines are normal to plate girders built on 170'-0" chords. For more information refer to Staking Diagram on Dwg. No. 60306.

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	11620	213.3	213.9
Base	100	13640	214.1	214.7
Extreme	500	18800	215.8	216.8
Overtopping	>500	>500	>500	>500

- Unrestricted water surface without structure or roadway approaches.
0100 backwater elevation for existing structure = 215.2 feet.
Proposed Low Bridge Chord Elevation = 225.02 feet at Sta. 4392+91.77.
Drainage area = 50.9 square miles.
Historical H.W. Elev. = 212.2 Feet (from 1963 Construction plans)
- Dimensions are taken from centerline Top of Deck @ Begin/End Bridge to Top of End Bent cap.
- Elevations shown in elevation view are along C.L. Bridge. Stationing is along C.L. Median. Stations shown in elevation view are determined by a radial projection from C.L. Bridge to C.L. Median. For more information refer to Staking Diagram on Dwg. No. 60306.
- Bent No. 1 will be restrained for longitudinal movement and Bent No. 2 will be free to move longitudinally.
- Shoring may be required during construction, see SP Job No. 012307 "Shoring".



BRIDGE A
VERTICAL CURVE DATA

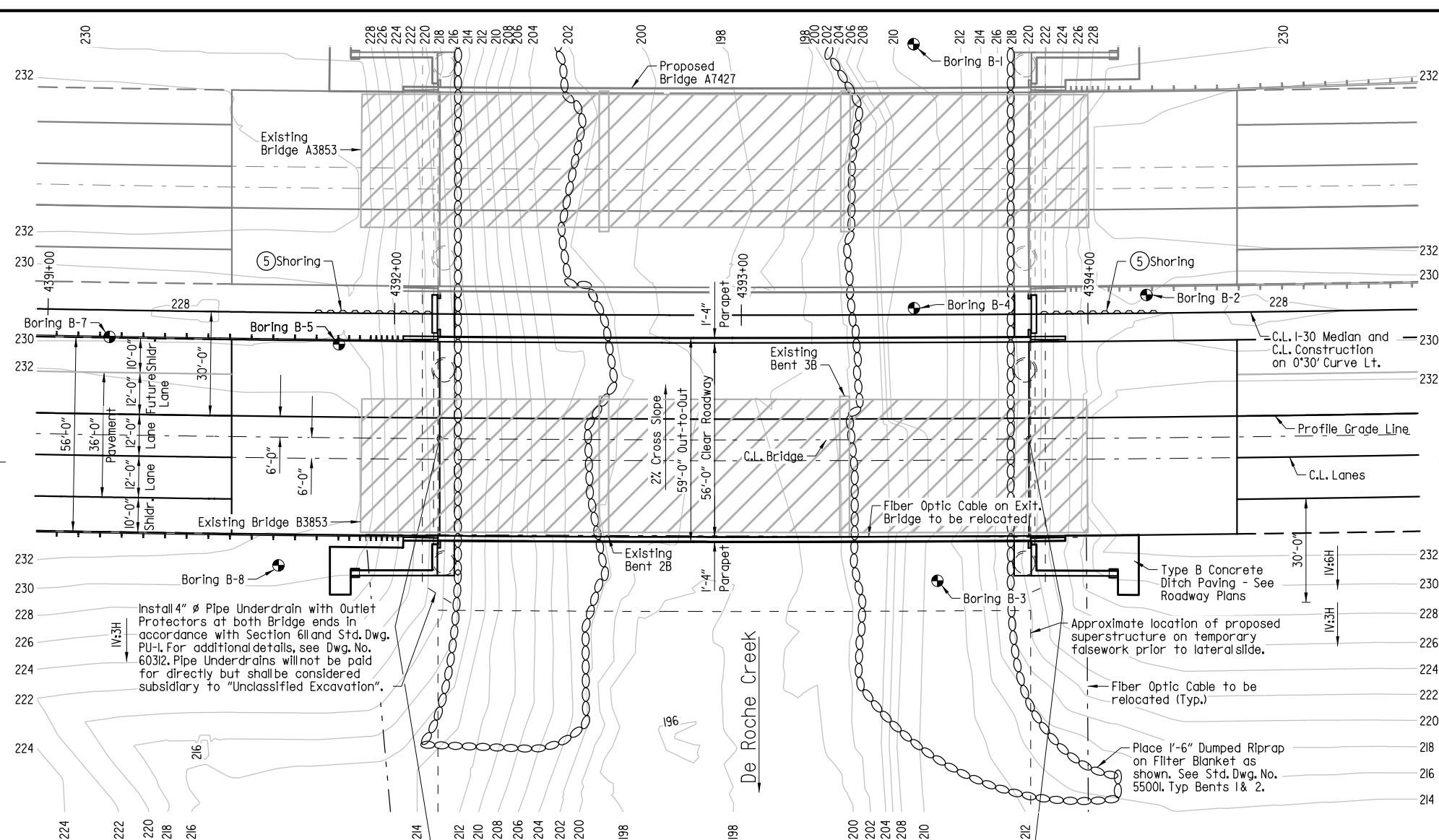
Elevations Along Profile Grade Line
Stationing is along C.L. Median determined by a radial projection from Profile Grade Line.

SHEET 1 OF 4
LAYOUT OF BRIDGES
INTERSTATE 30 OVER DE ROCHE CREEK
DE ROCHE CREEK STRS. & APPRS. (S)
CLARK AND HOT SPRING COUNTIES
ROUTE 30 SECTIONS 14 & 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

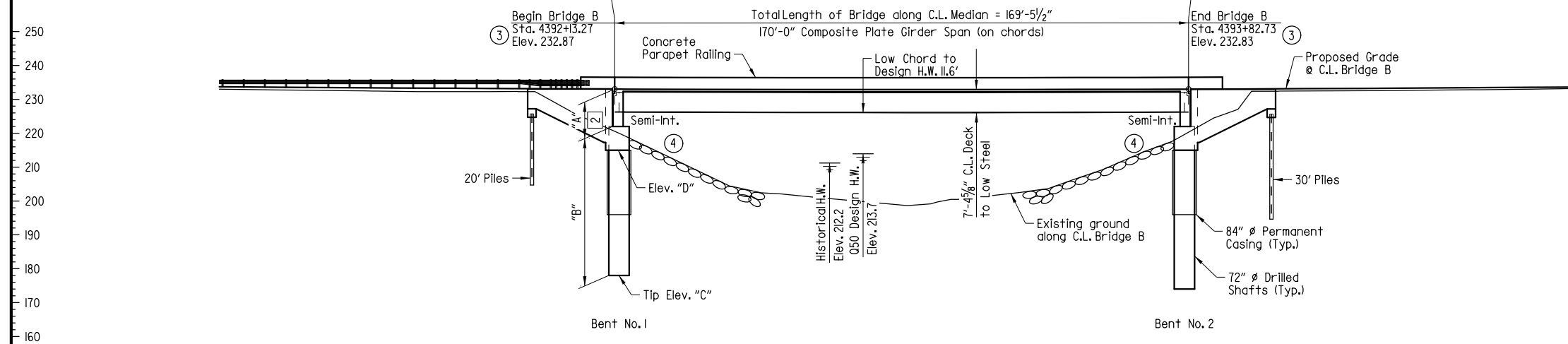


BRIDGE ENGINEER
PRINT DATE: 3/29/2019

DRAWN BY: MKL
CHECKED BY: SFH
DESIGNED BY: SFH
BRIDGE NO. A7427
DATE: 11/2018
DATE: 02/2019
DATE: 01/2018
FILENAME: B012307.LXDgn
SCALE: 1" = 20'
DRAWING NO. 60303



PLAN - BRIDGE B



ELEVATION - BRIDGE B
Along C.L. Bridge

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"
Bridge B - Bent No. 1	10'-10 1/16"	44'-0"	178	215
Bridge B - Bent No. 2	10'-9 5/16"	48'-0"	174	215

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	42	68

B7427 - LAYOUT - 60304

For R/W Data and Guardrail Details, See Roadway Plans.

Note:
Use Type Special Approach Slabs and Gutters at both ends of bridge, See Dwg. Nos. 60323 to 60325.

For General Notes, see Dwg. No. 60305.

For Boring Legend, see Dwg. No. 60305.

HORIZONTAL CURVE DATA

Note:
C.L. Median is on a 0°30'00" Curve left. Longitudinal lines shall be constructed on curves concentric w/ C.L. Median Stations. Begin/End Bridge Lines are normal to plate girders built on 170'-0" chords. For more information refer to Staking Diagram on Dwg. No. 60306.

C.L. I-30 Median
P.I. = 4390+02.16
Δ = 7°0'15" LT.
D = 0°30'00"
T = 702.96'
L = 1404.15'

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	11620	213.3	213.9
Base	100	13640	214.1	214.7
Extreme	500	18800	215.8	216.8
Overtopping	>500	>500	>500	>500

① Unconstricted water surface without structure or roadway approaches.

0100 backwater elevation for existing structure = 215.2 feet.

Proposed Low Bridge Chord Elevation = 225.33 feet at Sta. 4393+03.84.

Drainage area = 50.9 square miles.

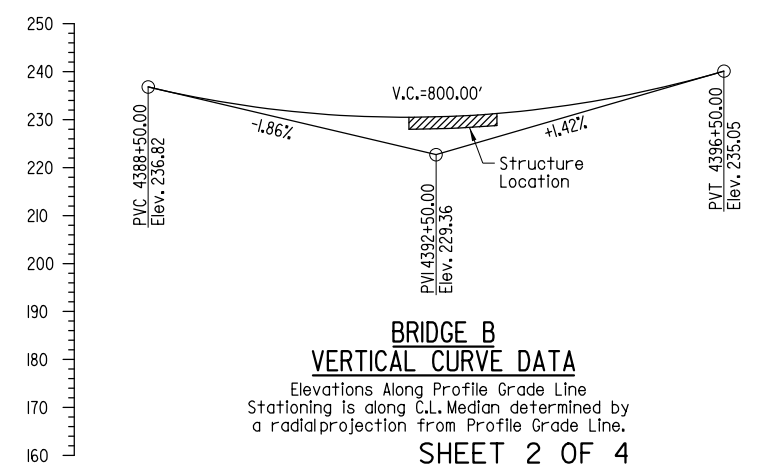
Historical H.W. Elev. = 212.2 Feet (from 1963 Construction plans)

② Dimensions are taken from centerline Top of Deck @ Begin/End Bridge to Top of End Bent cap.

③ Elevations shown in elevation view are along C.L. Bridge. Stationing is along C.L. Median. Stations shown in elevation view are determined by a radial projection from C.L. Bridge to C.L. Median. For more information refer to Staking Diagram on Dwg. No. 60306.

④ Bent No. 1 will be restrained for longitudinal movement and Bent No. 2 will be free to move longitudinally.

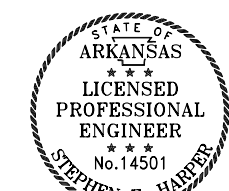
⑤ Shoring may be required during construction, see SP Job No. 012307 "Shoring".



BRIDGE B
VERTICAL CURVE DATA

Elevations Along Profile Grade Line
Stationing is along C.L. Median determined by a radial projection from Profile Grade Line.

SHEET 2 OF 4
LAYOUT OF BRIDGES
INTERSTATE 30 OVER DE ROCHE CREEK
DE ROCHE CREEK STRS. & APPRS. (S)
CLARK AND HOT SPRING COUNTIES
ROUTE 30 SECTIONS 14 & 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS



BRIDGE ENGINEER
PRINT DATE: 3/29/2019

DRAWN BY: MKL DATE: 11/2018
CHECKED BY: SFH DATE: 02/2019
DESIGNED BY: SFH DATE: 01/2018
BRIDGE NO. B7427 DRAWING NO. 60304
SCALE: 1" = 20'

GENERAL NOTES

BENCH MARK: Vertical Control Data are shown on the Survey Control Data Sheets.

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2014 Edition) with applicable Supplemental Specifications and Special Provisions. Unless otherwise noted, Section and Subsection refer to the Standard Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Seventh Edition (2014) with current Interim Specifications.

LIVE LOADING: HL-93

SEISMIC ZONE: I S_{D1}=0.11 SITE CLASS = C

MATERIALS AND STRENGTHS:
Class S(AE) Concrete (superstructure) f'c = 4,000 psi
Class S Concrete (substructure) f'c = 3,500 psi
Reinforcing Steel (AASHTO M 31 or M 322, Type A, Gr. 60) fy = 60,000 psi
Structural Steel (AASHTO M 270, Gr. 50W) Fy = 50,000 psi

BORING LOGS: Boring logs may be obtained from the Construction Contract Procurement Section of the Program Management Division.

STEEL PILING: Wing wall piling at Bridge A Bent No.1 and Bridge B Bent No.1 shall be HPI2x53 (Grade 50) and shall be driven with an approved air, steam or diesel hammer to a minimum safe bearing capacity of 95 tons per pile and into the material designated as Interbedded Sandstone and Shale on the boring legend. Wing wall piling at Bridge A Bent No.2 and Bridge B Bent No.2 shall be HPI2x53 (Grade 50) and shall be driven with an approved air, steam or diesel hammer to a minimum safe bearing capacity of 95 tons per pile and into the material designated as Sandstone on the boring legend. Lengths of piling shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with Section 805. Actual lengths are to be determined in the field. The Contractor shall use approved steel H-pile driving points on all piles.

DRILLED SHAFTS: Foundations for end bents shall consist of Drilled Shafts. All Drilled Shafts shall be founded into moderately hard to hard shale or sandstone and to the minimum rock penetrations and tip elevations shown in the plans. No adjustments in the Plan Tip Elevations shall be made without prior approval from the Engineer. Methods of construction of the drilled shafts shall be in accordance with SP Job No. 012307 "Drilled Shaft Foundations". Any casing used as a means for construction of the drilled shafts, such as to prevent caving, to exclude groundwater, or provide shoring shall not extend below top of rock. The Contractor must obtain approval from the Engineer for any deviation from this requirement.

CROSSHOLE SONIC LOGGING: Nondestructive testing shall be performed in accordance with SP Job No. 012307 "Nondestructive Testing of Drilled Shafts".

BRIDGE DECK: The concrete bridge deck shall be given a fine finish as specified for final finishing in Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish.

PROTECTIVE SURFACE TREATMENT: Class I Protective Surface Treatment shall be applied to the roadway surface and to the roadway face and top of the concrete parapet rail. Class I Protective Surface Treatment shall meet the requirements of Section 803.

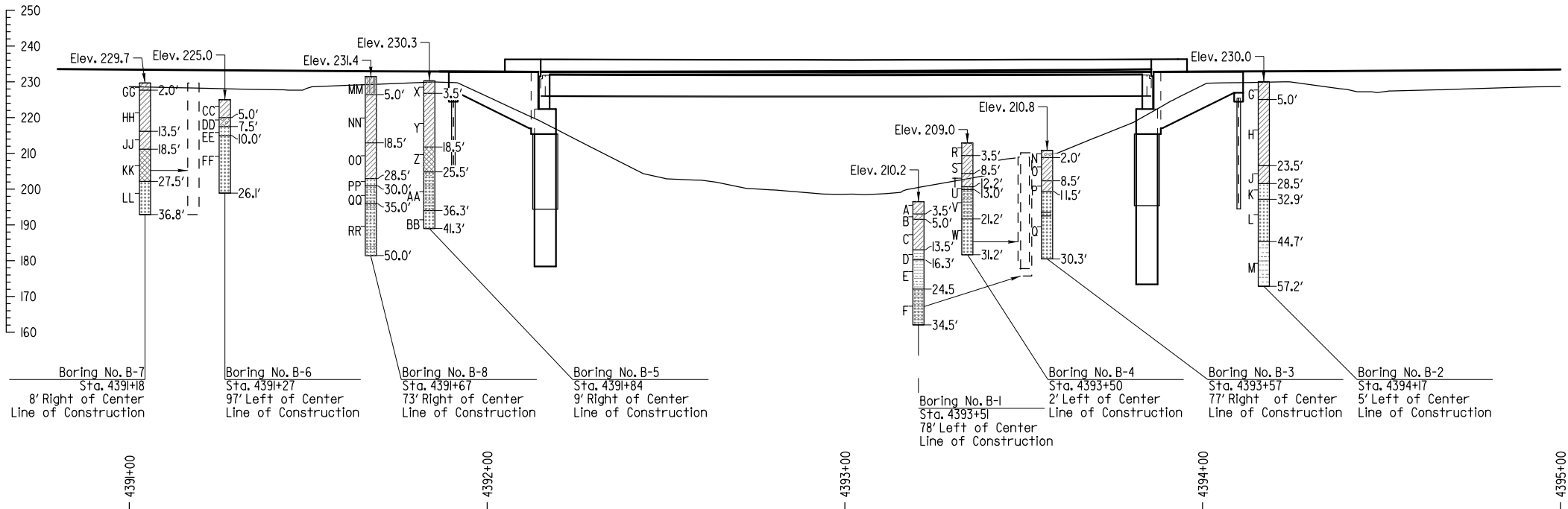
DETAIL DRAWINGS DRAWING NOS.

Elastomeric Bearings 60313
End Bents 60308 - 60312
170'-0" Composite Plate Girder Span 60314 - 60322
Type Special Approach Slabs & Gutters 60323 - 60325
Standard General Notes 55006
Steel Piling 55020

EXISTING BRIDGES: Existing Bridge Nos. A3853 and B3853 (log 80.6) are 42.25' wide and 210' long and consist of 3 - 70' Steel Beam Spans supported on multi-column concrete bents on spread footings. Plans of the existing structures may be obtained from the Construction Contract Procurement Section of the Program Management Division. Existing Bridge No. A3853 has a millable geogrid and an approximate 2" asphalt overlay.

REMOVAL AND SALVAGE: Existing Bridge Nos. A3853 and B3853 shall be removed in accordance with Section 205 and the details shown on Dwg. No. 60307. All material removed from the existing bridge shall become the property of the Contractor except for the approach guardrail which shall remain the property of the State.

MAINTENANCE OF TRAFFIC: See Roadway Plans



"N" VALUES

Boring No. B-1 Sta. 4393+51 - 78' Left of Center Line of Construction			
1.0 - 2.0	N=4	5.5 - 6.5	N=2
2.5 - 3.5	N=16	9.0 - 10.0	N=2
4.0 - 5.0	N=3	13.5 - 13.8	N=50/3"

Boring No. B-5 Sta. 4391+84 - 9' Right of Center Line of Construction			
1.0 - 2.0	N=9	9.0 - 10.0	N=6
2.5 - 3.5	N=10	14.0 - 15.0	N=6
4.0 - 5.0	N=8	18.5 - 19.0	N=50/6"
5.5 - 6.5	N=5	23.5 - 23.7	N=50/2"

BORING LEGEND

A- FILL - SANDY LEAN CLAY (CL), with tree roots and sandstone pieces, brown
B- SANDY LEAN CLAY (CL), with sandstone pieces, brown, soft
C- LEAN CLAY WITH SAND (CL), with sandstone pieces, brown and gray, soft
D- SHALE, dark gray, moderately hard
E- SHALE, dark gray, hard, extremely fractured, very close fracture spacing
F- INTERBEDDED SANDSTONE AND SHALE, dark gray and gray, well cemented, extremely fractured, very close fracture spacing

G- CLAYEY SAND (SC), reddish-brown, loose to medium dense
H- SANDY LEAN CLAY (CL), reddish-brown and gray, stiff to very stiff
J- CLAYEY SAND (SC), gray, very loose
K- HIGHLY WEATHERED SANDSTONE, reddish-brown and gray, poorly cemented
L- SANDSTONE, with clay seams, gray, poorly cemented to cemented, very close joint spacing, highly weathered
M- SHALE, dark gray, hard, moderately fractured, unweathered, 45 degree bedding dip

N- FILL - WELL GRADED SAND WITH GRAVEL (SW), with highly weathered sandstone, reddish-brown and brown
O- CLAYEY SAND (SC), with gravel and clay seams, brown and reddish-brown, very loose
P- CLAYEY SAND (SC), dark gray, loose
Q- SANDSTONE, with iron staining, gray, cemented, close to moderate joint spacing, near vertical spiral fractures, 45 degree joint dip, quartz regrowth, shale seam from 17.3 feet to 18.3 feet

R- FILL - CLAYEY SAND (SC), with gravel, brown and reddish-brown
S- CLAYEY SAND (SC), gray and dark gray, loose to very loose
T- SANDY LEAN CLAY (CL), with sandstone pieces, dark gray and brown, stiff to very stiff
U- HIGHLY WEATHERED SANDSTONE, brown poorly cemented
V- INTERBEDDED SANDSTONE AND SHALE, dark gray, cemented, extremely fractured, very close fracture spacing, vertical fractures
W- SANDSTONE, gray cemented, moderately fractured, moderate joint spacing, 45 degree fractures

X- FILL - CLAYEY SAND (SC), brown and light brown
Y- CLAYEY SAND (SC), with sandstone pieces, brown and reddish-brown, loose
Z- HIGHLY WEATHERED SHALE, brown and dark gray, soft
AA- INTERBEDDED SANDSTONE AND SHALE, gray and dark gray, hard, moderate joint spacing, close bedding, unweathered, 45 degree joint dip
BB- SANDSTONE, gray, cemented, moderate joint spacing, wide spacing, unweathered, 45 degree joint dip

Boring No. B-2 Sta. 4394+17 - 5' Left of Center Line of Construction			
1.0 - 2.0	N=9	14.0 - 15.0	N=12
2.5 - 3.5	N=13	19.0 - 20.0	N=9
4.0 - 5.0	N=19	24.0 - 25.0	N=1
5.5 - 6.5	N=16	28.5 - 29.0	N=50/6"
9.0 - 10.0	N=10		

Boring No. B-6 Sta. 4391+27 - 97' Left of Center Line of Construction			
1.0 - 2.0	N=5 (No Recovery)		
2.5 - 3.5	N=11		
4.0 - 5.0	N=31		
6.0 - 6.5	N=50/6"		

ELEVATION OF SOIL BORINGS

Along C.L. Median

Boring No. B-3 Sta. 4393+57 - 77' Right of Center Line of Construction			
1.0 - 2.0	N=50		
2.5 - 3.5	N=3		
4.0 - 5.0	N=3		
5.5 - 6.5	N=2		
9.0 - 10.0	N=7		

Boring No. B-7 Sta. 4391+8 - 8' Right of Center Line of Construction			
1.0 - 2.0	N=15	9.0 - 10.0	N=4
2.5 - 3.5	N=11	14.0 - 15.0	N=20
4.0 - 5.0	N=6	18.5 - 19.0	N=50/6"
5.5 - 6.5	N=14	23.5 - 24.0	N=50/6"

Boring No. B-4 Sta. 4393+50 - 2' Left of Center Line of Construction			
1.0 - 2.0	N=19		
2.5 - 3.5	N=28		
4.0 - 5.0	N=8		
5.5 - 6.5	N=2		
9.0 - 10.0	N=15		

Boring No. B-8 Sta. 4391+67 - 73' Right of Center Line of Construction			
1.0 - 2.0	N=14	14.0 - 15.0	N=9
2.5 - 3.5	N=9	19.0 - 20.0	N=5
4.0 - 5.0	N=7	24.0 - 25.0	N=69
5.5 - 6.5	N=10	25.5 - 26.5	N=27
9.0 - 10.0	N=5	28.5 - 28.9	N=50/5"

CC- SANDY LEAN CLAY (CL), with rootlets, brown and reddish-brown, medium stiff to hard
DD- CLAYEY GRAVEL (GC), with sandstone fragments, reddish-brown, very dense
EE- HIGHLY WEATHERED SANDSTONE, with cobbles, gray, poorly cemented
FF- SANDSTONE, gray, cemented, moderate joint spacing, massive bedding, unweathered to slightly weathered, joints at about 45 degrees below about 19 feet

GG- FILL - SANDY LEAN CLAY (CL), with sandstone and wood pieces, brown and reddish-brown
HH- SANDY LEAN CLAY (CL), with shale and sandstone pieces, brown, reddish-brown and gray, soft to stiff
JJ- CLAYEY SAND (SC), with gravel, reddish-brown and brown, medium dense
KK- HIGHLY WEATHERED SHALE, brown and gray, soft
LL- SANDSTONE, gray, poorly cemented, close joint spacing, weathered, 45 degree joint dip, iron stained joints

MM- FILL - SILTY, CLAYEY SAND (SC-SM), with gravel, reddish-brown
NN- FILL - CLAYEY SAND (SC), with shale and sandstone fragments, reddish-brown and brown
OO- CLAYEY SAND (SC), with shale and sandstone pieces, reddish-brown and gray, loose to very dense
PP- HIGHLY WEATHERED SANDSTONE, dark gray and reddish-brown, poorly cemented
QQ- INTERBEDDED SANDSTONE AND SHALE, gray and dark gray, hard, extremely fractured, close joint spacing, moderately weathered, 45 degree bedding
RR- INTERBEDDED SANDSTONE AND SHALE, gray and dark gray, hard, slightly fractured, moderate joint spacing, unweathered, 45 degree bedding



BRIDGE ENGINEER
PRINT DATE: 3/29/2019

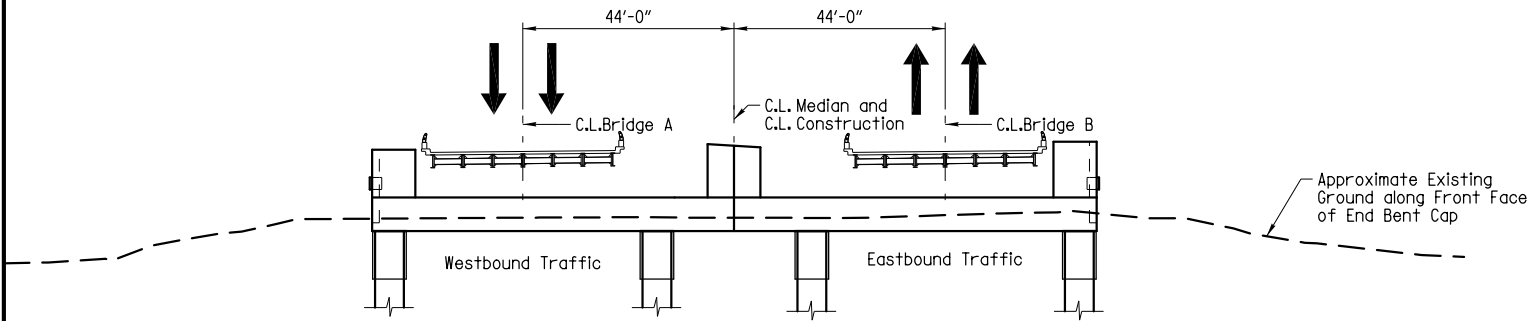
DRAWN BY: MKL
CHECKED BY: SFH
DESIGNED BY: SFH
BRIDGE NO. A&B7427

DATE: 11/2018
DATE: 02/2019
DATE: 01/2018

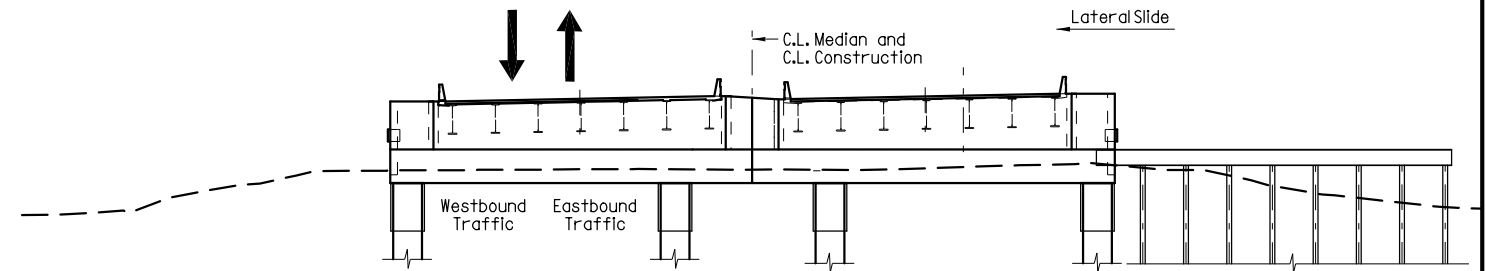
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SCALE: 1" = 20'
DRAWING NO. 60305

SHEET 3 OF 4
LAYOUT OF BRIDGES
INTERSTATE 30 OVER DE ROCHE CREEK
DE ROCHE CREEK STRS. & APPRS. (S)
CLARK AND HOT SPRING COUNTIES
ROUTE 30 SECTIONS 14 & 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

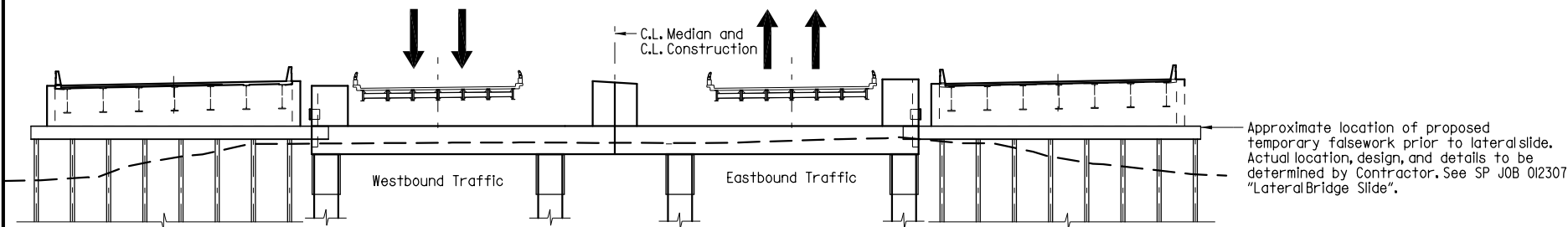
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012307	45
								68
A&B7427 - STAGING - 60307								



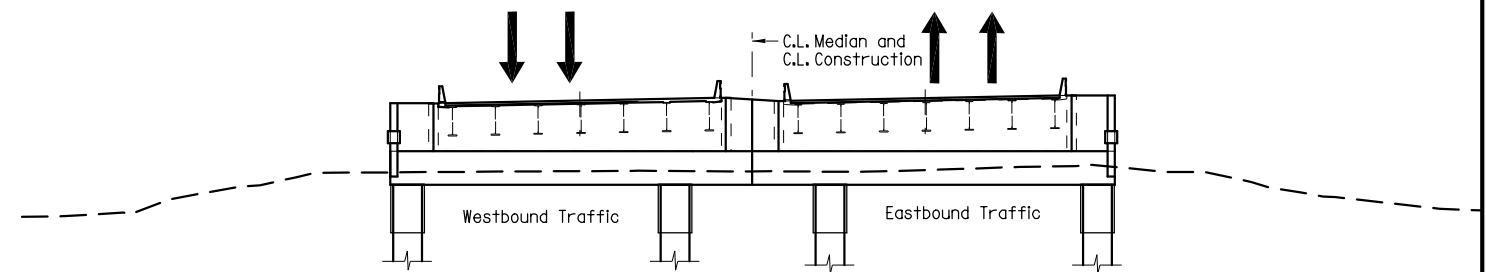
STEP 1
(Looking Forward)
MOT Stage 1 construct substructure under existing bridges.



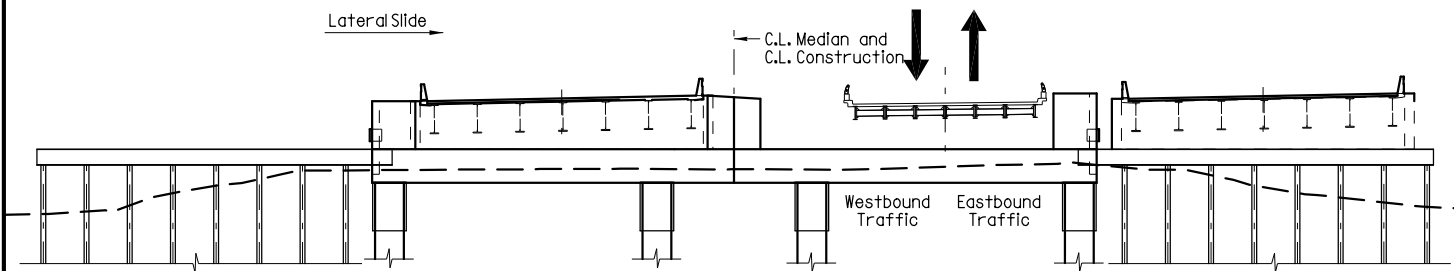
STEP 4
(Looking Forward)
MOT Stage 4A demolish existing Bridge B, slide new Bridge B (EB), complete approaches.



STEP 2
(Looking Forward)
MOT Stage 1 construct superstructure on temporary foundations.



COMPLETE
(Looking Forward)



STEP 3
(Looking Forward)
MOT Stage 3A demolish existing Bridge A (WB), complete approaches.



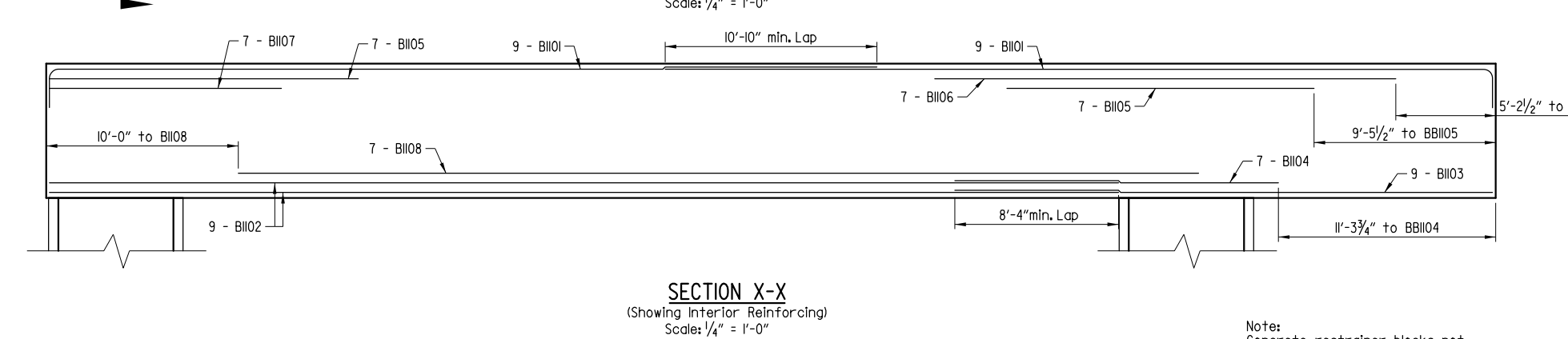
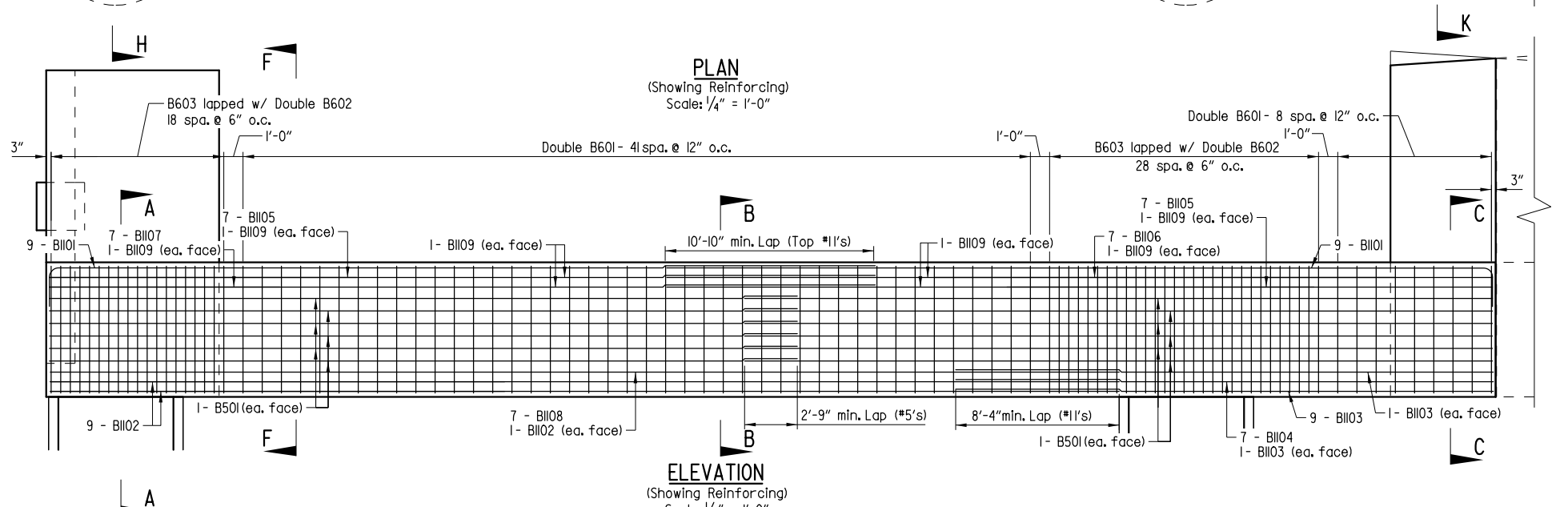
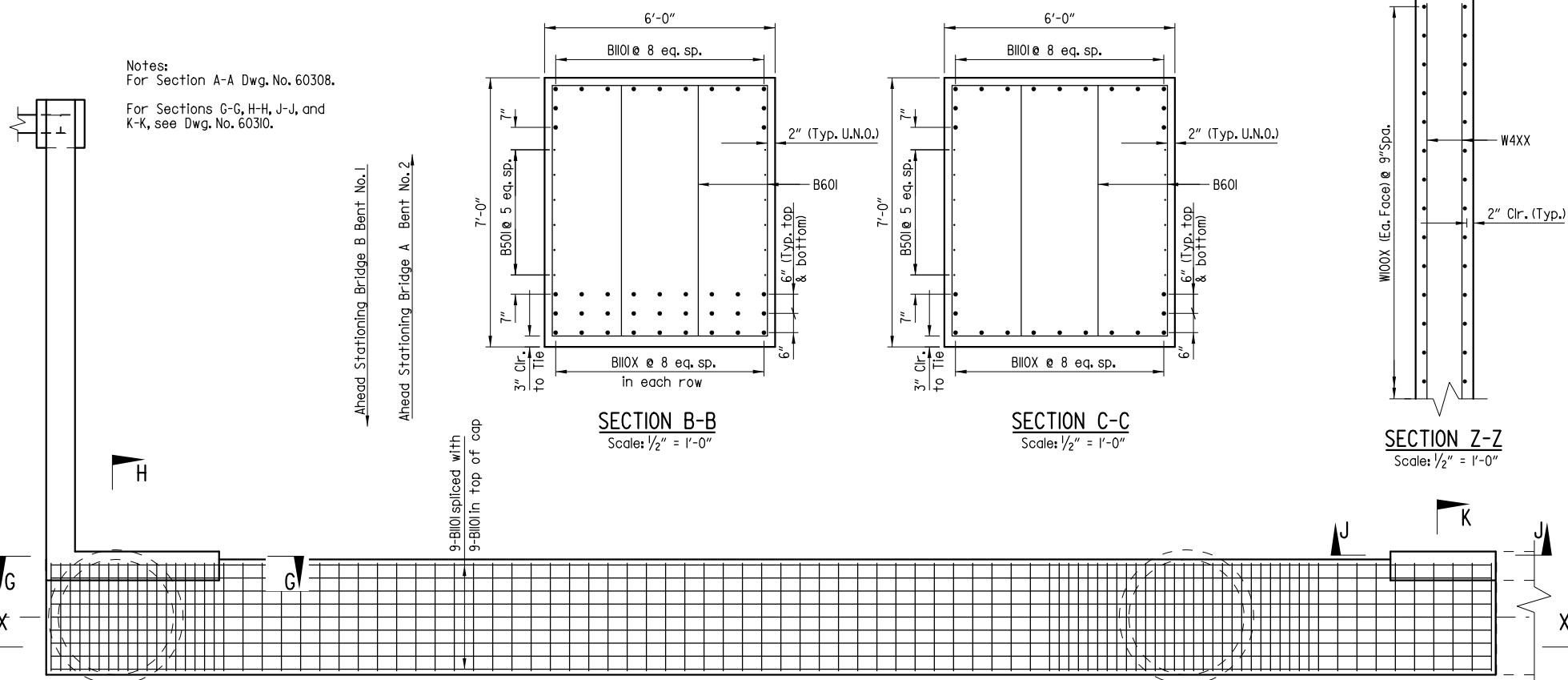
PROPOSED CONSTRUCTION SEQUENCE
INTERSTATE 30 OVER DE ROCHE CREEK
DE ROCHE CREEK STRS. & APPRS. (S)
CLARK AND HOT SPRING COUNTIES
ROUTE 30 SECTIONS 14 & 21
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

BRIDGE ENGINEER
PRINT DATE: 3/29/2019

DRAWN BY: MKL DATE: 11/2018
CHECKED BY: SFH DATE: 02/2019
DESIGNED BY: SFH DATE: 03/2018
BRIDGE NO. A&B7427 DRAWING NO. 60307
SCALE: No Scale
FILENAME: B012307_ZXL.dgn

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WORKSPACE: ARDOT
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REVISED DATE:

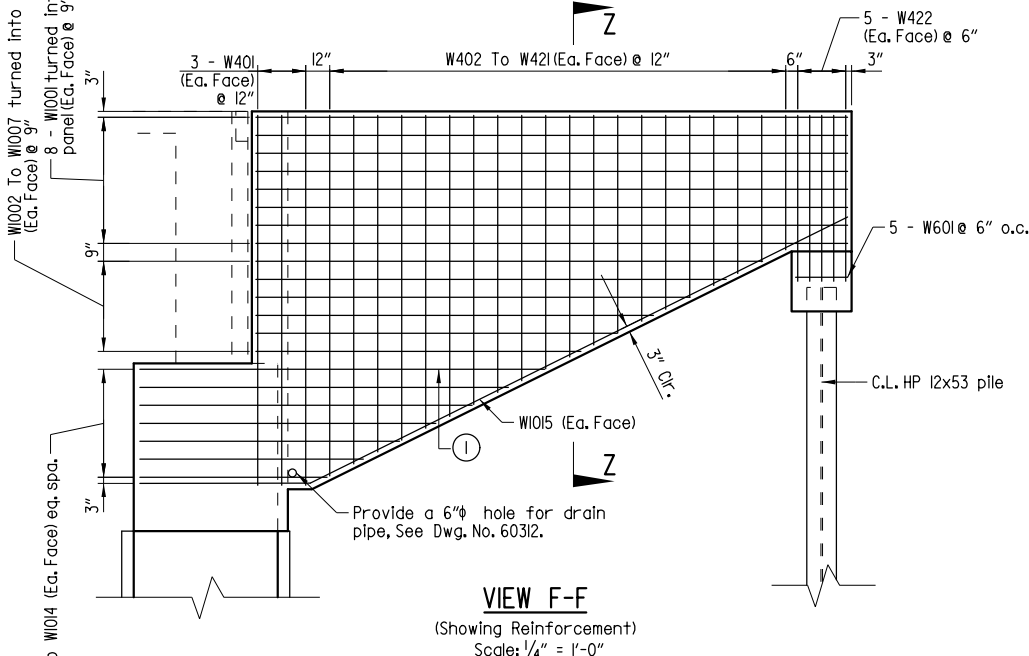
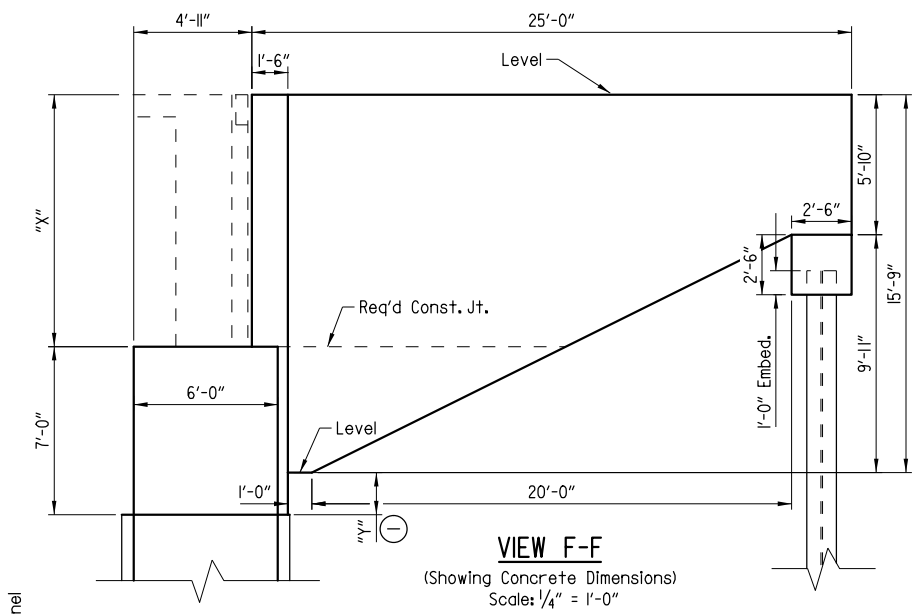
3/29/2019 3:50:05 PM
WORKSPACE: ARDOT
Y:\Projects\ARDOT\63836.L-30 Lateral Bridge Slide Design\BRIDGE Drawings\B012307_AX2.dgn
REVISED DATE:



Note:
Concrete restrainer blocks not
shown on this drawing for clarity.

	"X"	"Y"
Bridge A - Bent No. 1	9'-11 1/2"	1'-2 1/2"
Bridge A - Bent No. 2	10'-0"	1'-3"
Bridge B - Bent No. 1	11'-5 3/16"	2'-8 3/16"
Bridge B - Bent No. 2	11'-4 1/16"	2'-7 1/16"

① Trim Bar W1008 in field as required to
accommodate variation in Dimension "Y".



BRIDGE ENGINEER
PRINT DATE: 3/29/2019

DRAWN BY: MKL
CHECKED BY: CYD
DESIGNED BY: JAZ/MKL
BRIDGE NO. A&B7427

DATE: 02/2019
DATE: 02/2019
DATE: 01/2019

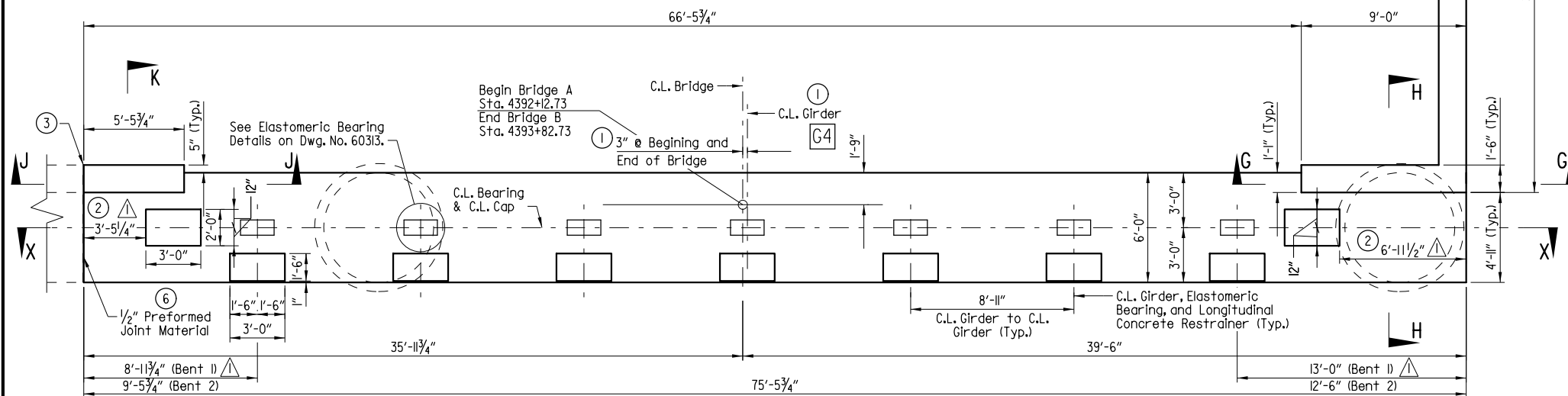
FILENAME: B012307_AX2.dgn
SCALE: As Shown
DRAWING NO. 60309

SHEET 2 OF 5
END BENT DETAILS
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

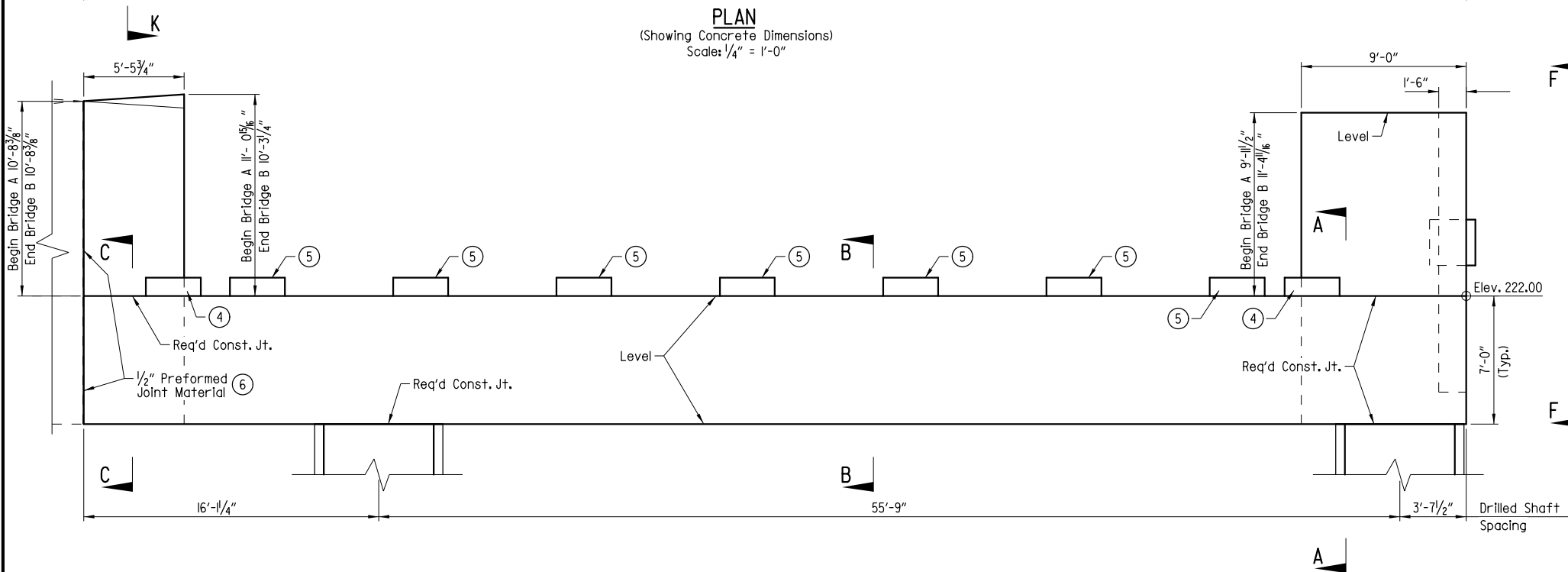
Notes:
For Section A-A Dwg. No. 60308.
For Sections B-B, C-C, X-X, and
View F-F, see Dwg. No. 60309.

Ahead Stationing Bridge A Bent No. 1
Ahead Stationing Bridge B Bent No. 2

- ① C.L. Girder position (offset from C.L. Bridge) is shown for end bridge location. Adjust orientation for begin bridge location.
- ② Position concrete restrainers to contact end concrete diaphragms and use $\frac{1}{2}$ " preformed joint material between surfaces.
- ③ See Construction Joint Detail on Dwg. No. 60311.
- ④ Transverse Concrete Restrainer, to be installed after slide. See Detail on Dwg. No. 60311.
- ⑤ Longitudinal Concrete Restrainer, Typ. End Bent Only, to be installed after slide. See Detail on Dwg. No. 60311.
- ⑥ See Subsection 501.02(h) for Type 2. Joint material will not be paid for directly but be considered subsidiary to other items of work.



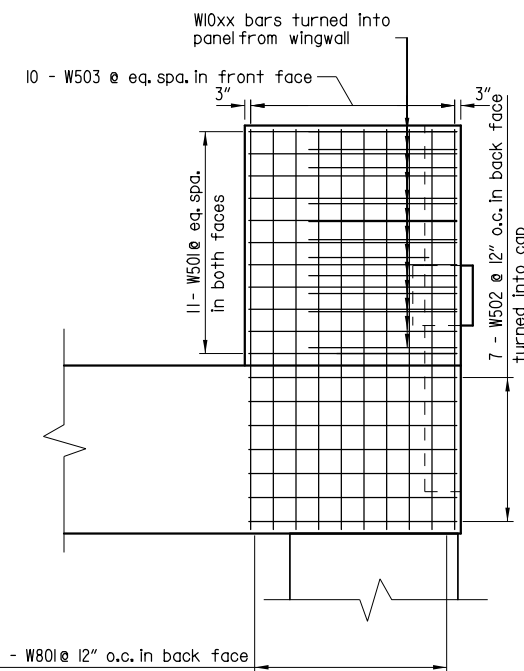
PLAN
(Showing Concrete Dimensions)
Scale: $\frac{1}{4}$ " = 1'-0"



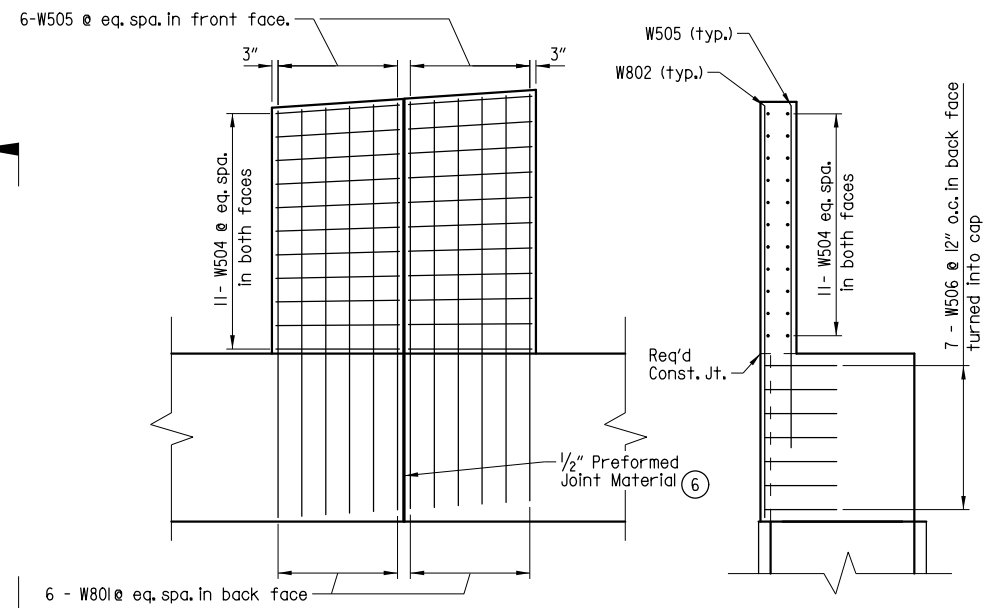
ELEVATION
(Showing Concrete Dimensions)
Scale: $\frac{1}{4}$ " = 1'-0"

⚠ Restrainer block location correction.

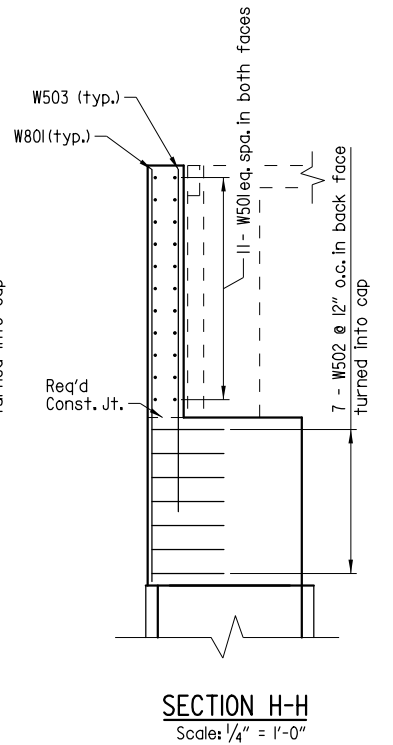
Batter 3V:H



SECTION G-G
Scale: $\frac{1}{4}$ " = 1'-0"



SECTION J-J
Scale: $\frac{1}{4}$ " = 1'-0"



SECTION H-H
Scale: $\frac{1}{4}$ " = 1'-0"



BRIDGE ENGINEER
PRINT DATE: 8/14/2020

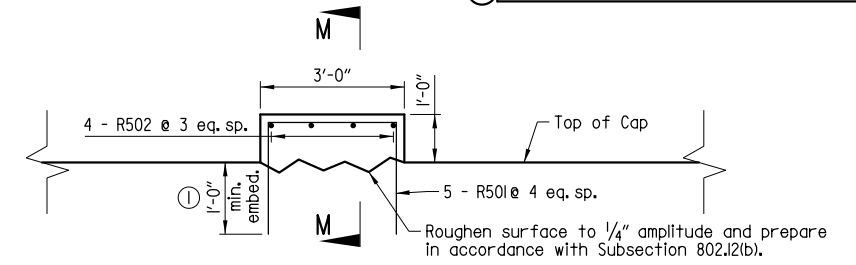
DRAWN BY: MKL
CHECKED BY: CYD
DESIGNED BY: JAZ/MKL
BRIDGE NO. A&B7427

DATE: 02/2019
DATE: 02/2019
DATE: 01/2019
DRAWING NO. 60310

FILENAME: B012307_AX3.dgn
SCALE: As Shown

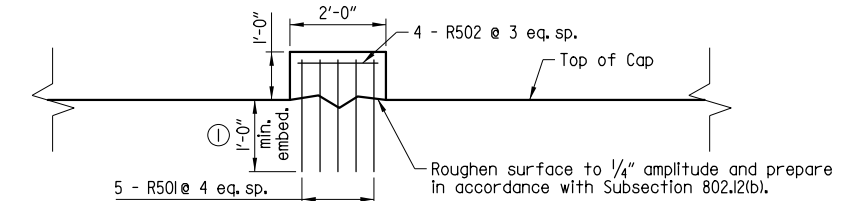
SHEET 3 OF 5
END BENT DETAILS
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	49	68
A&B7427 - END BENTS - 60311								



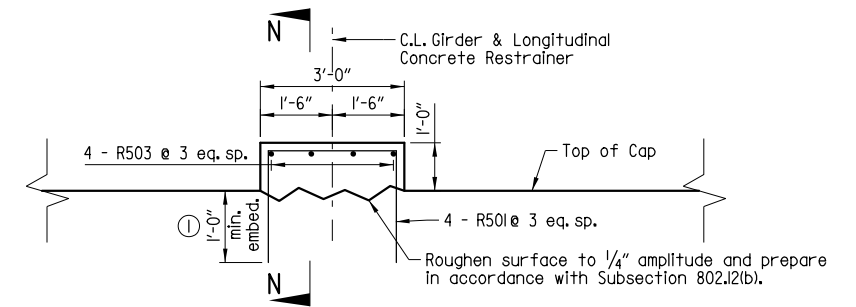
TYPICAL TRANSVERSE CONCRETE RESTRAINER DETAIL

End Bents 1 & 2
Scale: 1/2" = 1'-0"



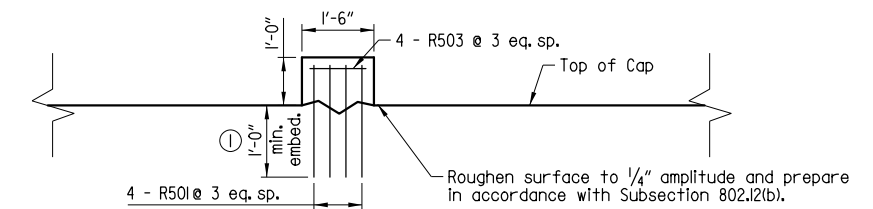
SECTION M-M

End Bents 1 & 2
Scale: 1/2" = 1'-0"



TYPICAL LONGITUDINAL CONCRETE RESTRAINER DETAIL

End Bent 1 Only
Scale: 1/2" = 1'-0"



SECTION N-N

End Bent 1 Only
Scale: 1/2" = 1'-0"



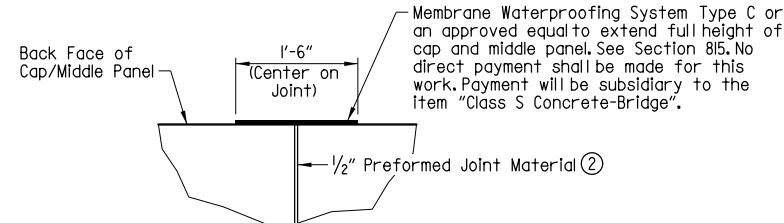
SHEET 4 OF 5
END BENT DETAILS
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DRAWN BY: MKL DATE: 02/2019 FILENAME: B012307_AX4.dgn
CHECKED BY: CYY DATE: 02/2019
DESIGNED BY: JAZ/MKL DATE: 01/2019 SCALE: As Shown
BRIDGE NO. A&B7427 DRAWING NO. 60311

BRIDGE ENGINEER
PRINT DATE: 3/29/2019

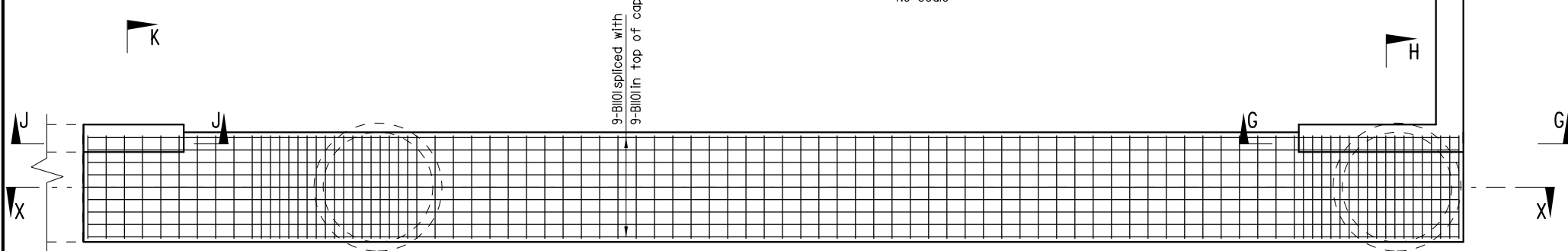
Note:
Concrete restrainer blocks not
shown on this drawing for clarity.

- Concrete Restrainer reinforcement shall be drilled and grouted into place following the bridge slide. The reinforcement shall be set and fixed using a OPL epoxy grout system in accordance with manufacturer's recommendations. The Contractor should exercise care to locate cap reinforcing and avoid when drilling. As an alternate, the Contractor may submit for approval an embedded Insert system to be cast in place prior to slide. The Insert system shall not interfere with the lateral slide operation.
- See Subsection 501.02(h) for Type 2. Joint material will not be paid for directly but be considered subsidiary to other items of work.



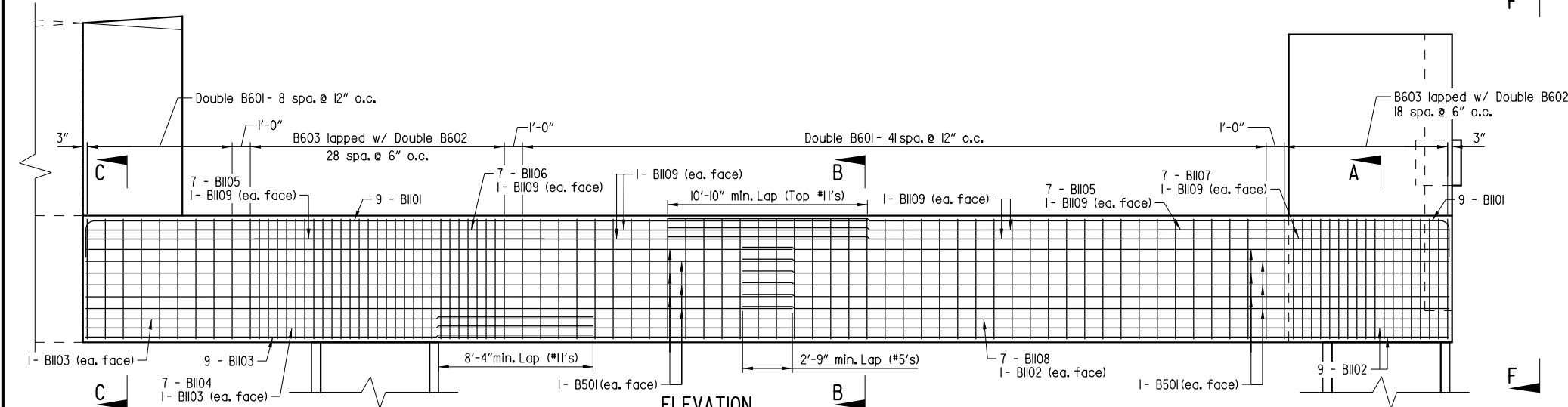
CONSTRUCTION JOINT DETAIL

No Scale



PLAN

(Showing Reinforcing)
Scale: 1/4" = 1'-0"



ELEVATION

(Showing Reinforcing)
Scale: 1/4" = 1'-0"

Notes:
For Section A-A Dwg. No. 60308.

For Sections B-B, C-C, X-X, and
View F-F, see Dwg. No. 60309.

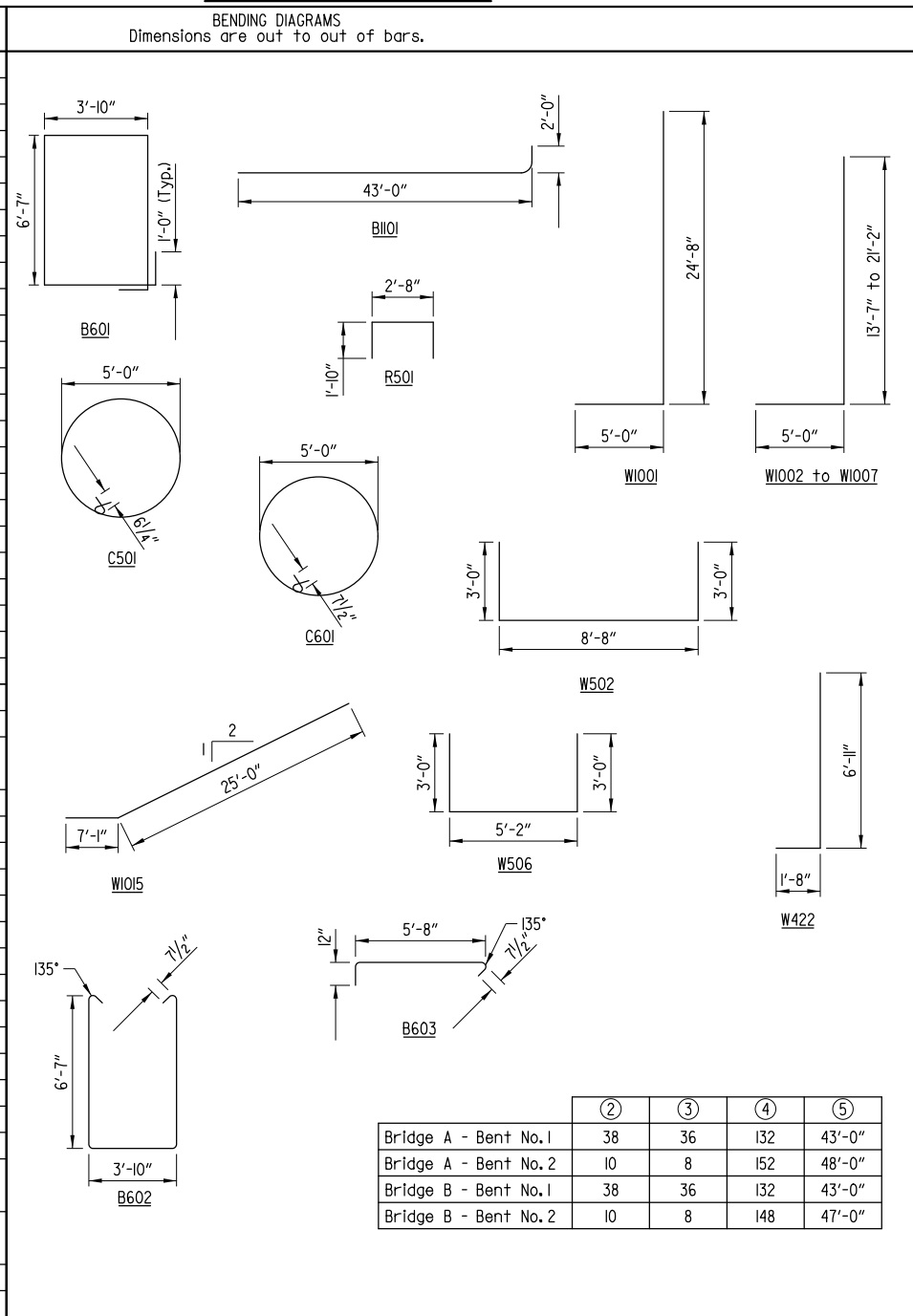
For Sections G-G, H-H, J-J, and
K-K, see Dwg. No. 60310.

Ahead Stationing Bridge A Bent No. 1
Ahead Stationing Bridge B Bent No. 2

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	50	68
				A&B7427 - END BENTS - 60312				

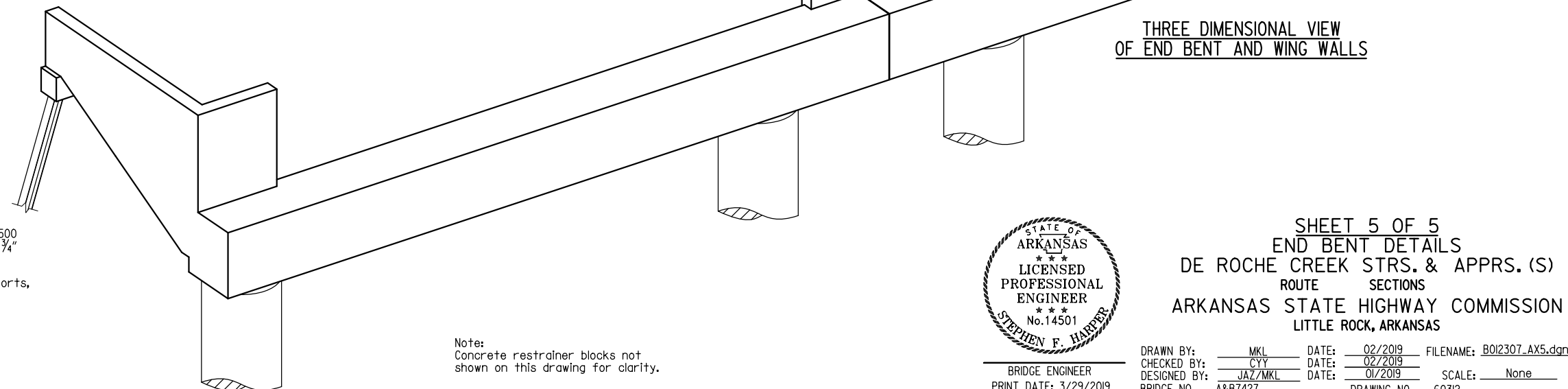
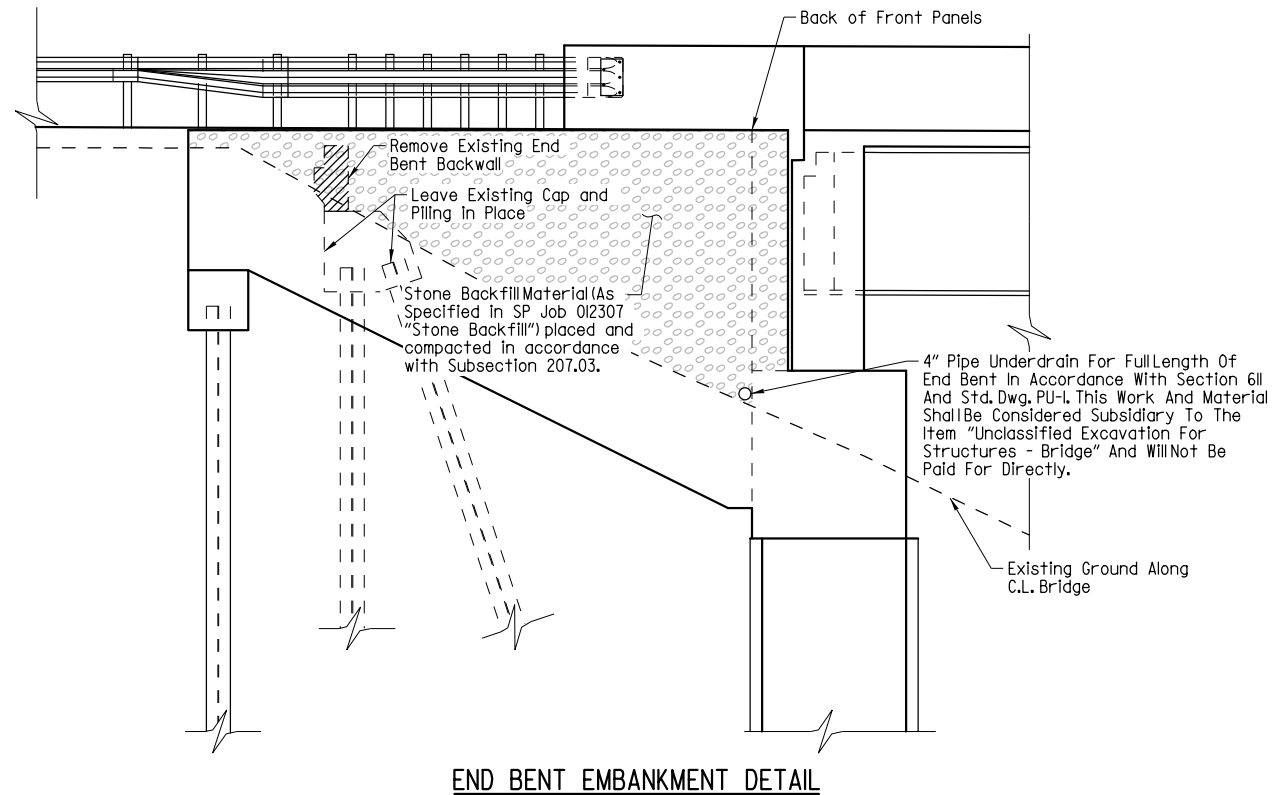
MARK	NO. REQ'D.	LENGTH	PIN DIA.
B501	24	39'-0"	Str.
B601	102	24'-0"	4½"
B602	96	18'-4"	4½"
B603	48	7'-4"	4½"
B1101	18	44'-8"	11¼"
B1102	20	55'-8"	Str.
B1103	13	28'-0"	Str.
B1104	7	16'-11"	Str.
B1105	14	16'-0"	Str.
B1106	7	24'-0"	Str.
B1107	7	12'-0"	Str.
B1108	7	50'-0"	Str.
B1109	8	43'-1"	Str.
R501	②	6'-2"	2½"
R502	③	1'-8"	Str.
C501	④	17'-1"	3¾"
C601	84	17'-4"	4½"
C1101	104	⑤	Str.
W401	6	15'-5"	Str.
W402 to W421	2 ea.	5'-8" to 15'-0"	Str.
W422	10	8'-6"	3"
W501	22	8'-8"	Str.
W502	7	14'-6"	2½"
W503	10	14'-6"	Str.
W504	22	5'-2"	Str.
W505	6	13'-0"	Str.
W506	6	11'-0"	Str.
W601	5	2'-2"	Str.
W801	15	16'-6"	Str.
W1001	16	29'-5"	10"
W1002 to W1007	2 ea.	25'-10" to 18'-3"	10"
W1008 to W1014	2 ea.	16'-10" to 7'-9"	Str.
W1015	2	32'-1"	10"

BAR LIST- PER END BENT



- ① Non-Pay Item - Subsidiary to Pay Item "Drilled Shaft (72" Dia.)"
- ② Trim Bar W1008 in field as required to accomodate variation in Dimension "Y" as shown on Dwg. No. 60309.

All concrete shall be Class "S" with a minimum 28 day compressive strength $f'_c = 3,500$ psi. Concrete shall be poured in the dry and all exposed corners to be chamfered $\frac{3}{4}"$ unless otherwise noted.



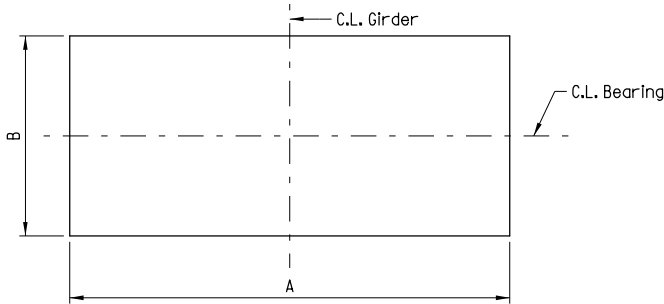
Note:
Concrete restrainer blocks not
shown on this drawing for clarity.

BRIDGE ENGINEER
PRINT DATE: 3/29/2019

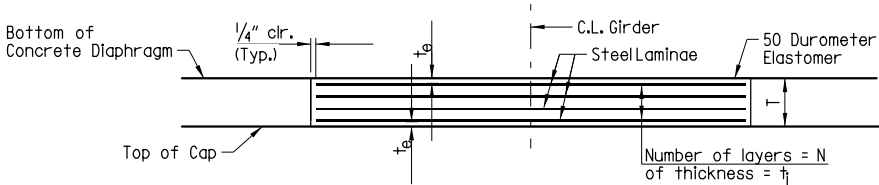
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WORKSPACE: ARDOT
Y:\Projects\ARDOT\63836.L-30 Lateral Bridge Slide Design\BRIDGE Drawings\B012307_EX1.dgn
REVISED DATE:

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	012307	51
								68
				1 A&B7427 - ELASTOMERIC BEARINGS - 60313				

Prior to setting the superstructure in its final location, the Contractor shall verify the orientation and position of the bearings.



ELASTOMERIC BEARING - PLAN VIEW



ELASTOMERIC BEARING - FRONT VIEW

t_1 = thickness of elastomer between steel laminae
 t_e = thickness of elastomer cover on top and bottom of pad
 N = number of elastomer layers of thickness t_1

					E L A S T O M E R I C P A D						
BRIDGE NO.	LOCATION		NO. OF BEARINGS EACH BENT	① MAXIMUM DESIGN LOAD (kip)	A	B	N	t ₁	t _e	NO. & THICKNESS OF STEEL LAMINAE	T
	BENT NO(S)	GIRDER NO.									
A & B7427	1 & 2	ALL	7	296.0	22"	10"	3	0.5"	0.25"	4 @ 12 ga.	2 7/16"

① Maximum Load = Service I Limit State

GENERAL NOTES

Elastomeric Bearings shall conform to Section 808 (except that no external load plate is provided) and shall be paid for at the unit price bid for "Elastomeric Bearings".

Bearings shall be seated in accordance with Subsection 808.08. This work and materials shall be considered subsidiary to the item "Elastomeric Bearings" and will not be paid for directly.



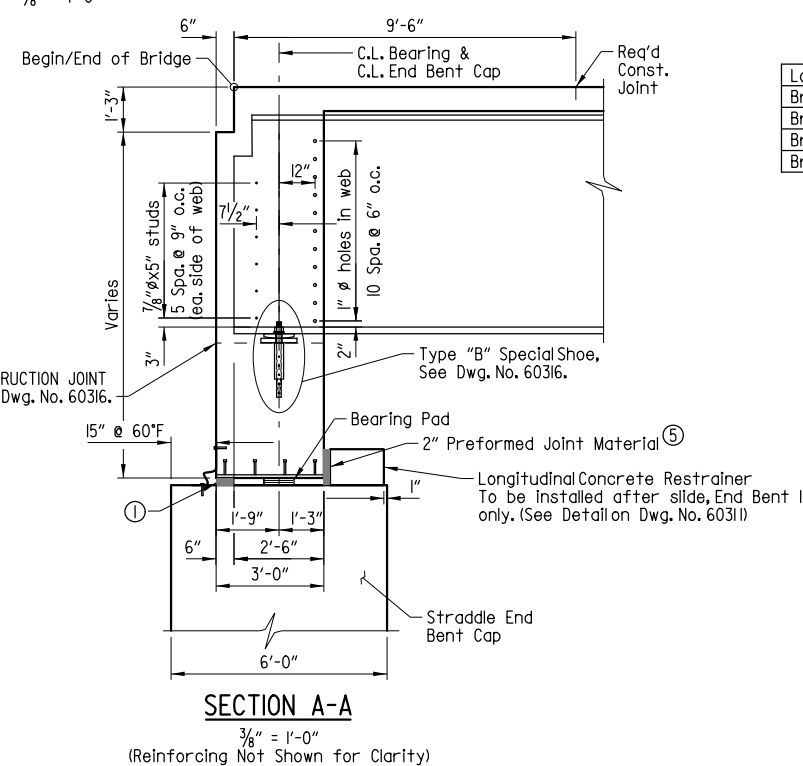
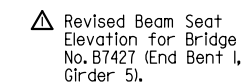
BRIDGE ENGINEER
PRINT DATE: 3/29/2019

DETAILS OF ELASTOMERIC BEARINGS
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DRAWN BY: MKL DATE: 02/2019
CHECKED BY: SFH DATE: 02/2019
DESIGNED BY: MKL DATE: 10/2018
BRIDGE NO. A&B7427 DRAWING NO. 60313
SCALE: None
FILENAME: B012307_EX1.dgn

⑤ See Subsection 501.02(h) for Type 2. Joint material will not be paid for directly but be considered subsidiary to other items of work.

Note:
For Sections C-C and D-D, see
Dwg. No. 60316.



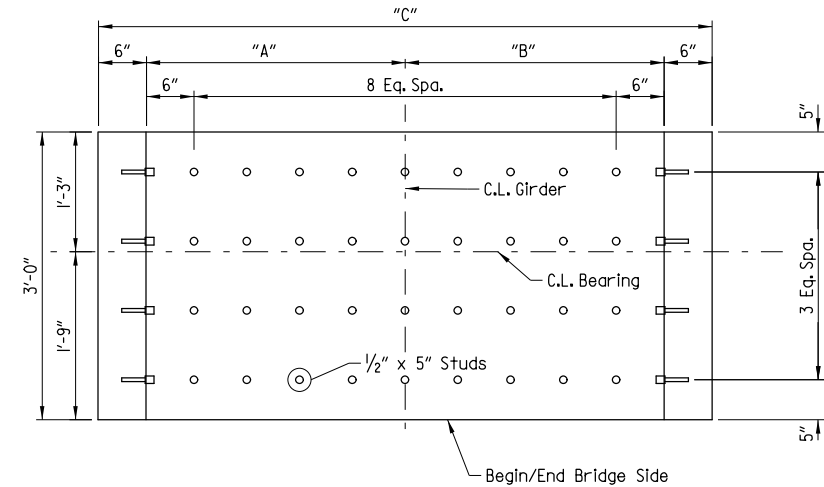
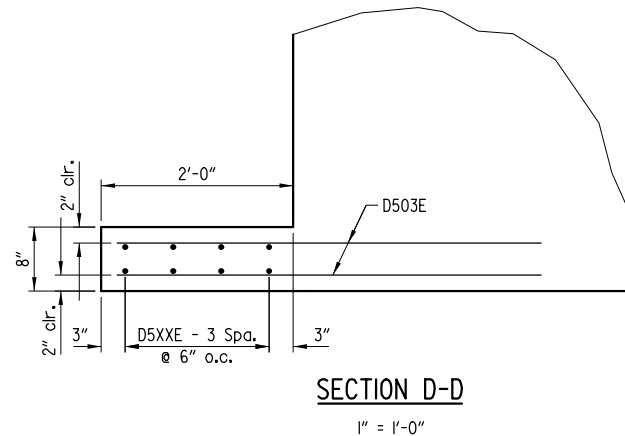
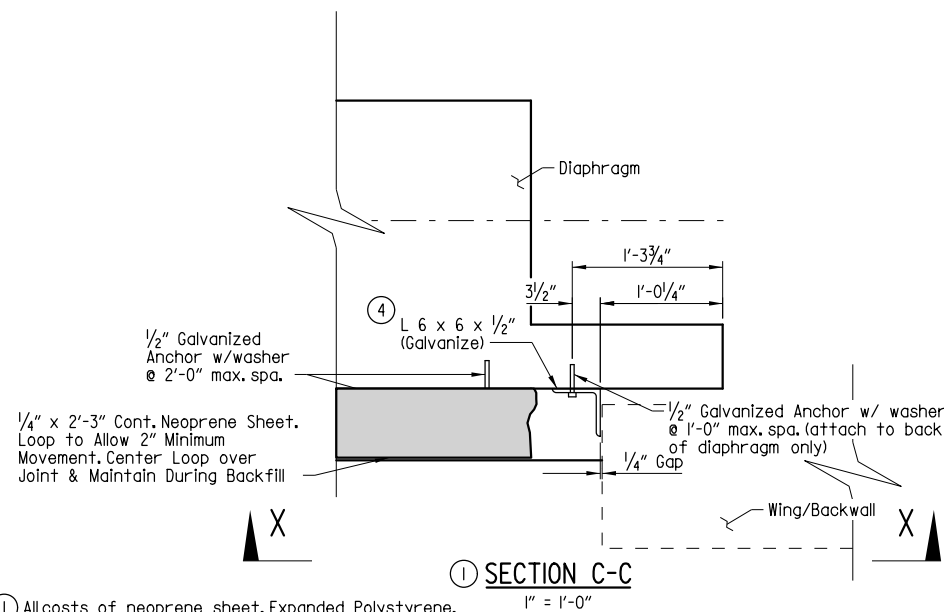
Location	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	DSXXE L.t./R.t.
Bridge A - End Bent 1	9'-9 $\frac{1}{16}$ "	10'-10 $\frac{1}{2}$ "	231.96	233.08	2'-8 $\frac{3}{4}$ "	7	19	21	D504E/D505E
Bridge A - End Bent 2	9'-9 $\frac{1}{16}$ "	10'-11"	232.00	233.12	2'-9 $\frac{1}{4}$ "	7	19	21	D504E/D505E
Bridge B - End Bent 1	10'-1 $\frac{1}{16}$ "	11'-2 $\frac{1}{4}$ "	232.31	233.43	3'-0 $\frac{1}{2}$ "	8	20	22	D506E/D507E
Bridge B - End Bent 2	10'-0 $\frac{1}{16}$ "	11'-2 $\frac{1}{4}$ "	232.27	233.39	3'-0 $\frac{1}{2}$ "	8	20	22	D506E/D507E

Location	G1	G2	G3	G4	G5	G6	G7
Bridge A - End Bent 1	224.93	225.11	225.29	225.47	225.65	225.82	226.00
Bridge A - End Bent 2	224.97	225.15	225.33	225.51	225.69	225.86	226.04
Bridge B - End Bent 1	225.28	225.46	225.64	225.82	226.00	226.17	226.35
Bridge B - End Bent 2	225.24	225.42	225.60	225.78	225.96	226.13	226.31

A circular professional seal for the State of Arkansas. The outer border is a rope-like pattern. Inside, the text "STATE OF ARKANSAS" is at the top, followed by three stars. Below that is "LICENSED PROFESSIONAL ENGINEER", also followed by three stars. At the bottom, it says "No. 14501" and "STEPHEN F. HARPER" in a curved path.

DRAWN BY: MKL DATE: 11/2018 FILENAME: B012307_SX2.dgn
 CHECKED BY: SFH DATE: 02/2019
 DESIGNED BY: SFH DATE: 01/2018 SCALE: As Shown
 BRIDGE NO. A&B7427 DRAWING NO. 60315

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	54	68
				A&B7427 - 170'-0" SPAN - 60316				



- ① All costs of neoprene sheet, Expanded Polystyrene, steel angles, and concrete anchors shall not be paid for directly, but will be considered subsidiary to the Item "Class S(AE) Concrete-Bridge."
- ② Membrane Waterproofing System Type C or an approved equal to extend full width of end concrete diaphragm. See Section 815. No direct payment shall be made for this work. Payment will be subsidiary to the Item "Class S(AE) Concrete-Bridge."
- ③ All costs of labor, materials, and incidentals to fabricate and install Sole Plates, including stainless steel sheets and studs shall not be paid for directly but will be considered subsidiary to the Item "Class S(AE) Concrete-Bridge."
- ④ Length of Angle members to match Dimension "A" or "B" as required. See "Table of Variables" on Dwg. No. 60315.

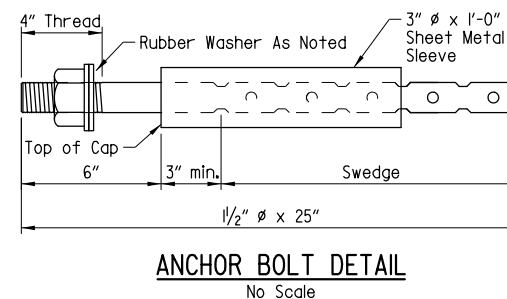
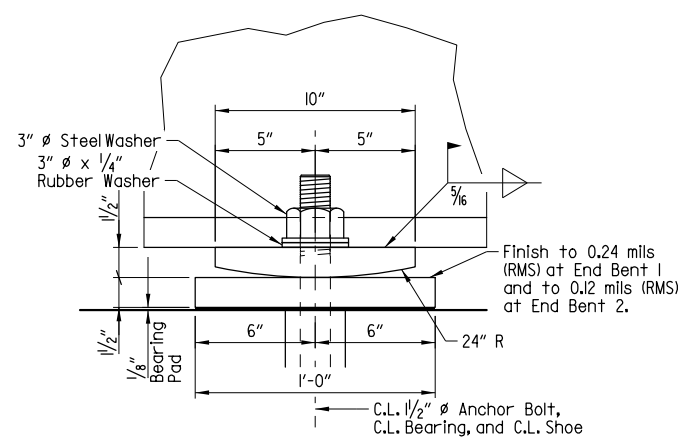
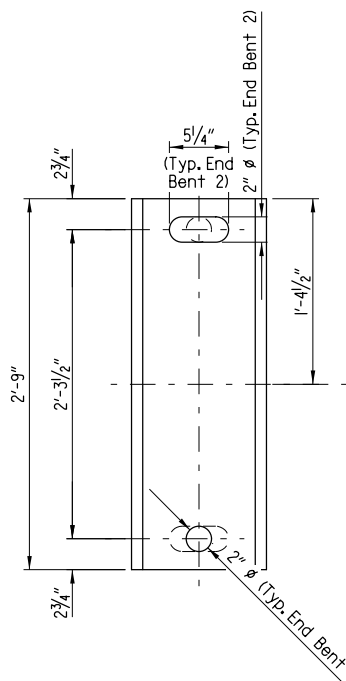
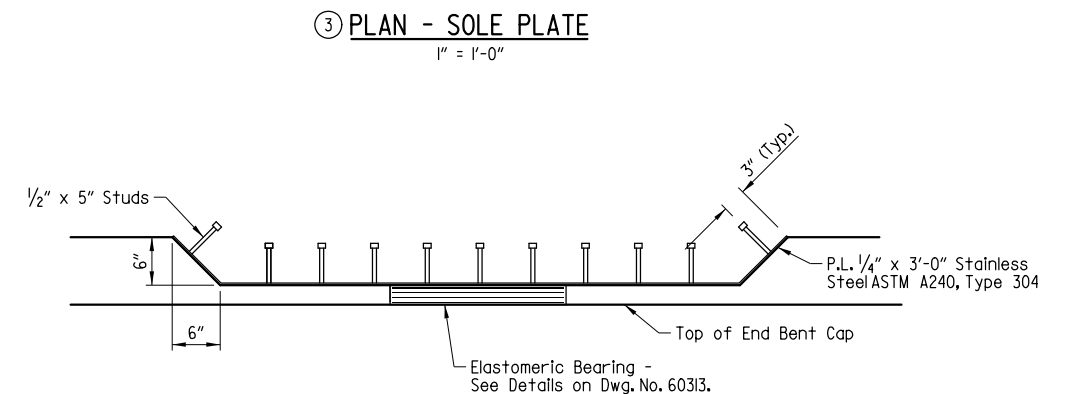
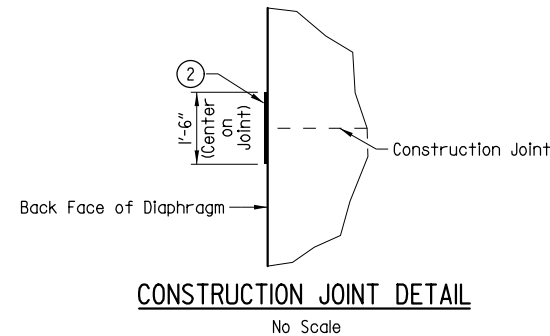
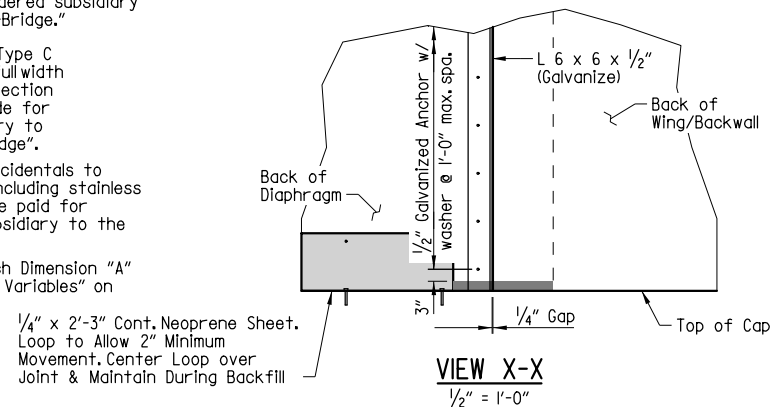


TABLE OF SOLE PLATE VARIABLES

Location	"A"	"B"	"C"
G1	3'-0"	3'-2/2"	6'-2/2"
G2 - G6	3'-2/2"	3'-2/2"	6'-5"
G7	3'-2/2"	2'-6"	5'-8/2"

Anchor Bolts, Nuts and Washers to be according to Subsection 807.07. Indentations shall be circular with rounded bottoms and staggered as shown above. Rubber washer shall be closed cell expanded rubber, meeting the requirements of ASTM D1056 - B5 2B2 E2, and shall be considered subsidiary to the item of "Structural Steel in Plate Girder Spans (M 270, Gr. 50)". Anchor Bolts, Nuts and Washers shall be paid for at the unit price bid for "Structural Steel in Plate Girder Spans (M 270, Gr. 50)". Anchor Bolts shall be Grade 55.

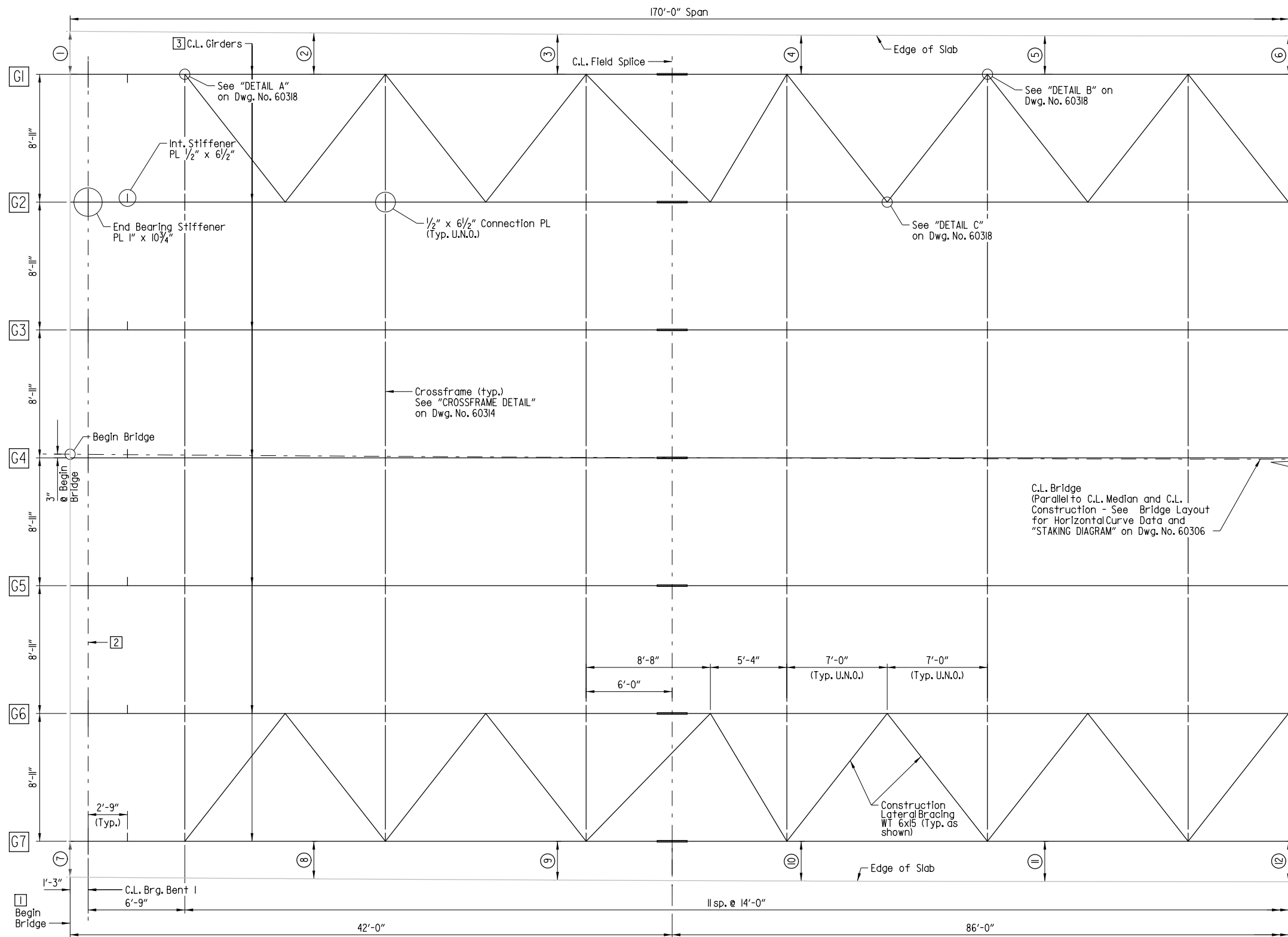
Anchor Bolts may be cast in place or drilled and grouted into place. If Anchor Bolts are to be cast in place, the Galvanized Sheet Metal Sleeves will not be required. If Anchor Bolts are to be drilled and grouted in place, the Galvanized Sheet Metal Sleeves shall be cast in place as shown. Sleeves shall be dry packed with styrofoam, urethane foam or approved equal prior to pouring of concrete. After pouring of the cap and prior to erection of Structural Steel, the dry pack shall be removed and holes for the anchor bolts shall be accurately drilled into masonry. Bolts placed in drilled holes shall be set and fixed using a QPL approved epoxy or non-shrink grout that completely fills the holes. Galvanized Sheet Metal Sleeves will not be paid for directly, but will be considered subsidiary to the item of "Structural Steel in Plate Girder Spans (M 270, Gr. 50W)".



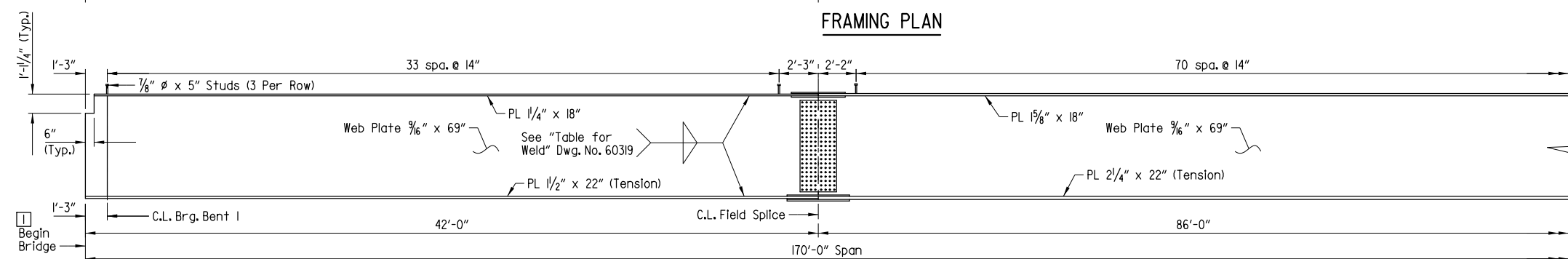
SHEET 3 OF 9
DETAILS OF
170'-0" COMPOSITE PLATE GIRDER SPAN
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DRAWN BY: MKL DATE: 01/2018 FILENAME: B012307_SX3.dgn
 CHECKED BY: SFH DATE: 02/2019
 DESIGNED BY: SFH DATE: 01/2018 SCALE: As Shown
 BRIDGE NO. A&B7427 DRAWING NO. 60316

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REVISED DATE:

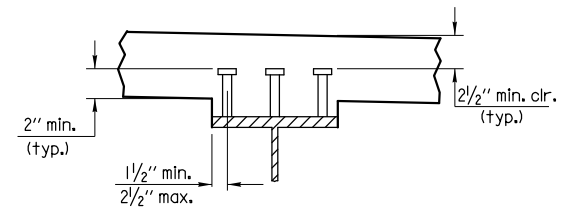


FRAMING PLAN



GIRDER ELEVATION

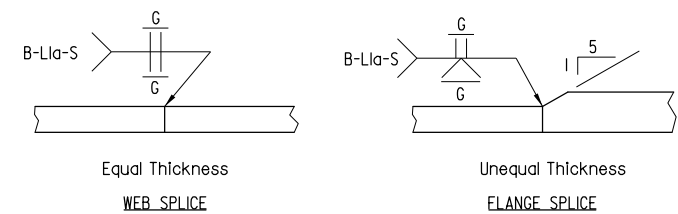
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				6	ARK.			
				JOB NO.		012307	55	68
						A&B7427 - 170'-0" SPAN - 60317		



Stud Shear Connectors shown shall be 7/8" ϕ x 5" long, granular flux filled, solid fluxed or equal, and automatically end welded to the beam flange in accordance with the recommendations of the Manufacturer.

SHEAR CONNECTOR DETAIL

No Scale



DETAILS OF WELDED SPLICES

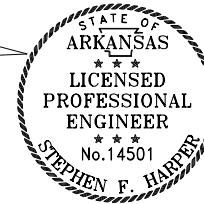
No Scale

TABLE OF CANTILEVER OFFSETS

10th Points	Offset	Dist. to Begin/End Bridge (Along C.L. Girder)
①	3'-0"	0'-0"
②	2'-10 5/8"	17'-0"
③	2'-9 9/16"	34'-0"
④	2'-8 3/8"	51'-0"
⑤	2'-8 7/8"	68'-0"
⑥	2'-8 3/16"	85'-0"
⑦	2'-6"	0'-0"
⑧	2'-7 3/8"	17'-0"
⑨	2'-8 7/16"	34'-0"
⑩	2'-9 9/16"	51'-0"
⑪	2'-9 5/8"	68'-0"
⑫	2'-9 3/4"	85'-0"

Note:
U.N.O., all structural steel shall be AASHTO M 270, Gr. 50W.

- See "Section A-A" on Dwg. No. 60315 for end bent details.
- The Contractor shall provide temporary bracing along C.L. Bearing prior to concrete diaphragm placement.
- Placed parallel to a chord from C.L. Bridge at Beginning of Bridge to C.L. Bridge at End of Bridge.

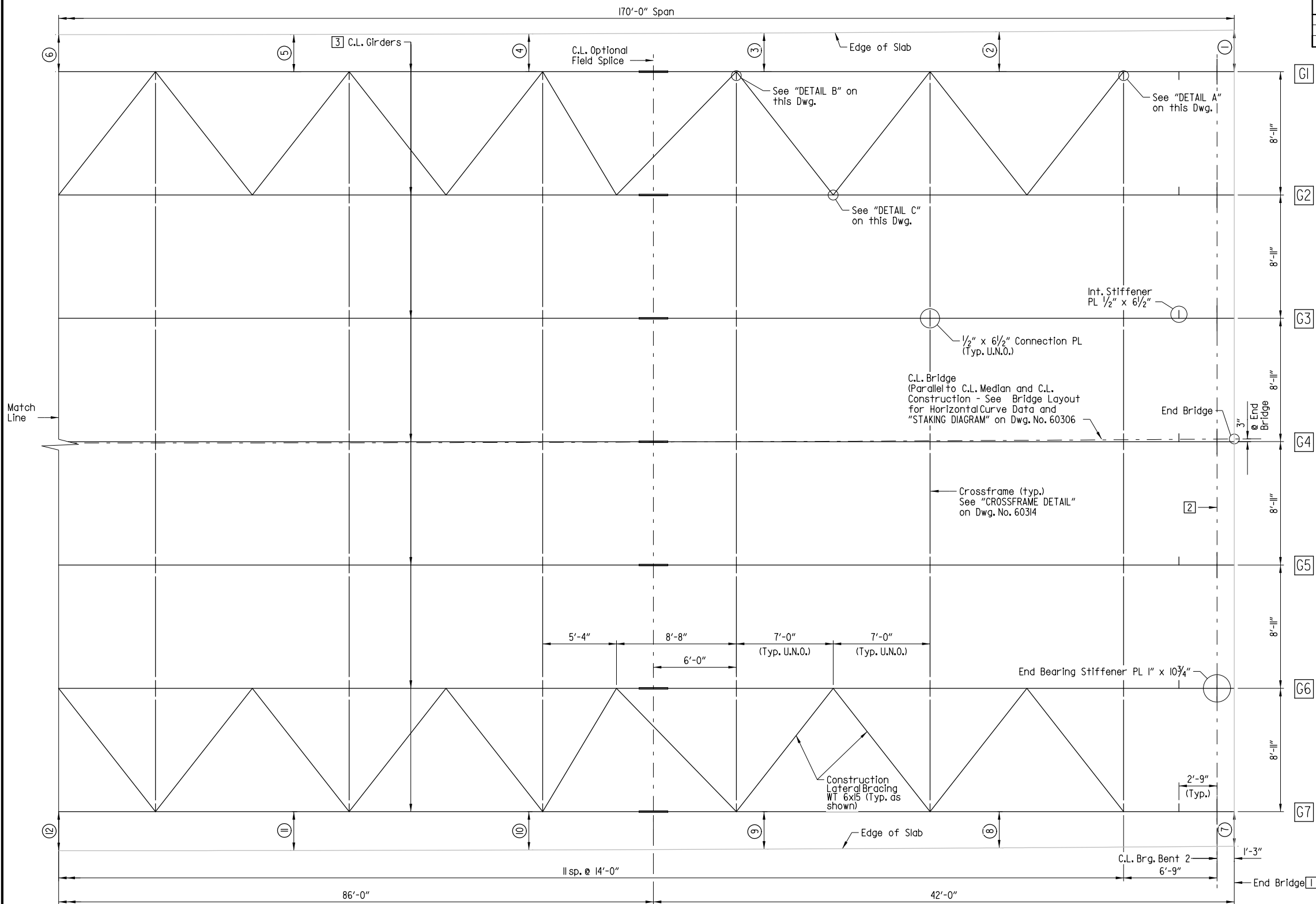


BRIDGE ENGINEER
PRINT DATE: 3/29/2019

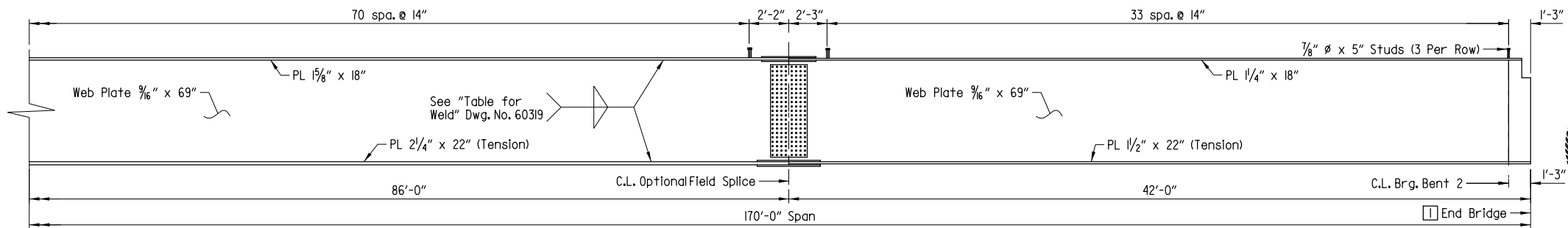
SHEET 4 OF 9
DETAILS OF
170'-0" COMPOSITE PLATE GIRDER SPAN
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

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BRIDGE NO. A&B7427 DRAWING NO. 60317

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REVISED DATE:

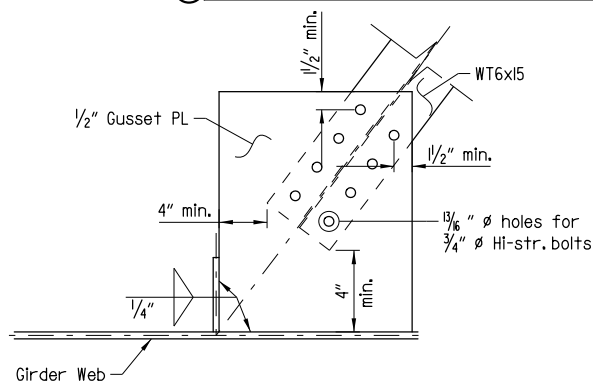


FRAMING PLAN



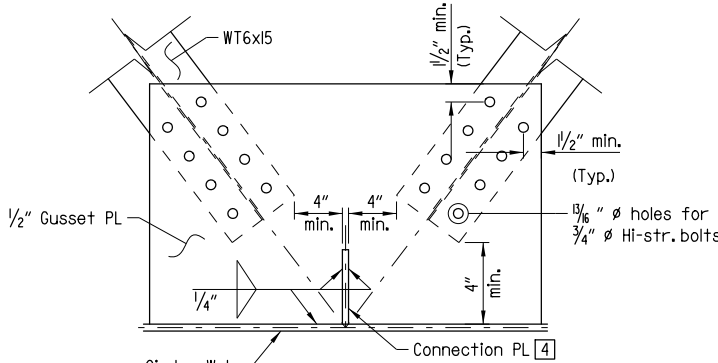
GIRDER ELEVATION

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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				JOB NO. 012307				
				A&B7427 - 170'-0" SPAN - 60318				



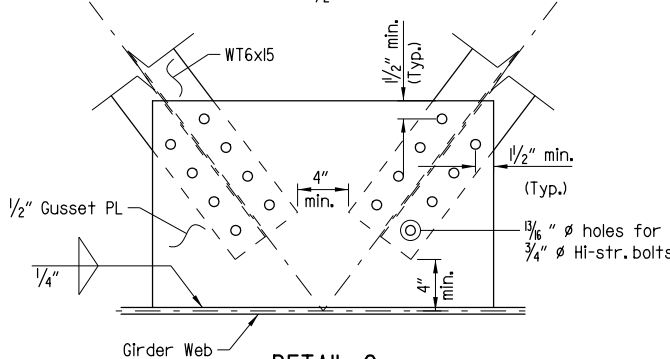
DETAIL A

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



DETAIL B

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



DETAIL C

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

Note:
U.N.O., all structural steel shall be AASHTO M 270, Gr. 50W.

- See "Section A-A" on Dwg. No. 60315 for end bent details.
- The Contractor shall provide temporary bracing along C.L. Bearing prior to concrete diaphragm placement.
- Placed parallel to a chord from C.L. Bridge at Beginning of Bridge to C.L. Bridge at End of Bridge.
- Connection plates shall be discontinuous at lateral bracing gusset plates. See GUSSET PLATE AND CONNECTION PLATE DETAIL on Dwg. No. 60319.



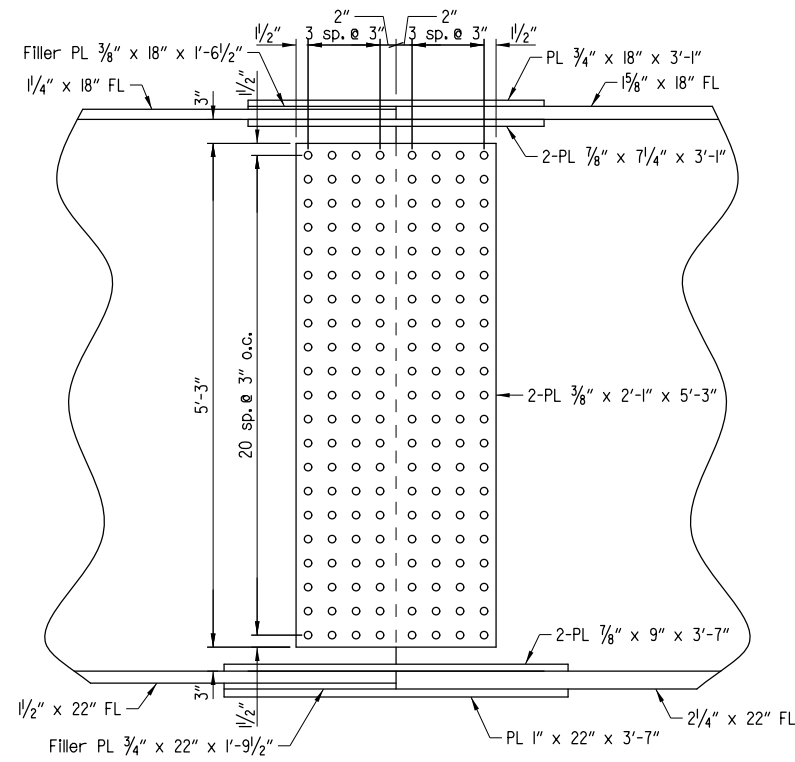
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PRINT DATE: 3/29/2019

SHEET 5 OF 9
DETAILS OF
170'-0" COMPOSITE PLATE GIRDER SPAN
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DRAWN BY: MKL DATE: 03/2018
CHECKED BY: SFH DATE: 02/2019
DESIGNED BY: MKL DATE: 01/2018
BRIDGE NO. A&B7427 DRAWING NO. 60318
SCALE: 1/4" = 1'-0"

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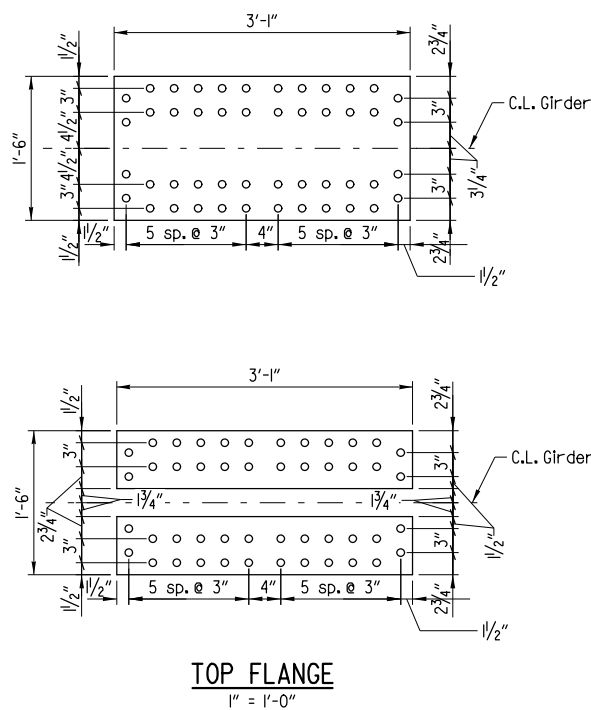
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				6	ARK.			
				JOB NO.		012307	57	68
A&B7427 - 170'-0" SPAN - 60319								



TYPICAL FIELD SPLICE DETAILS
1" = 1'-0"

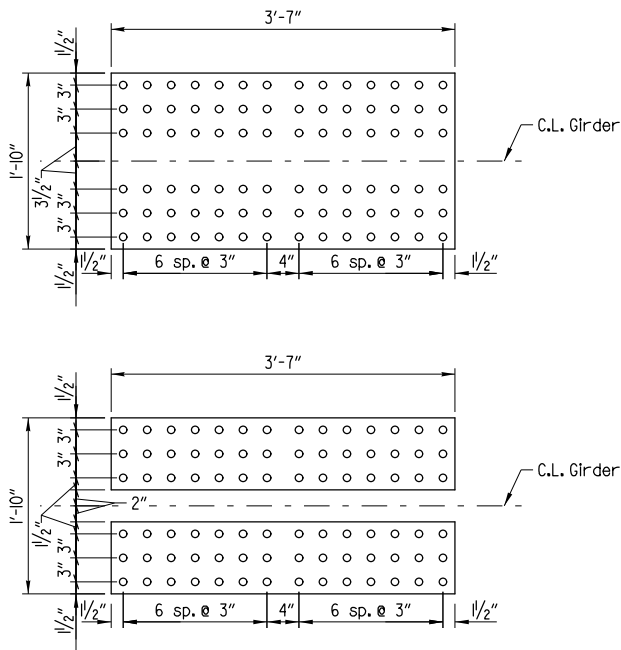
Note:
Bolted field splices shown may be eliminated or shop welded splices may be substituted with approval of the Engineer. Payment will be made on the basis of the plan quantities.

All field splice bolts shall be 7/8" ϕ Hi-str. bolts.
All holes for splice bolts shall be 15/16" ϕ .
All field splice plates shall be AASHTO M 270 Gr. 50W steel.

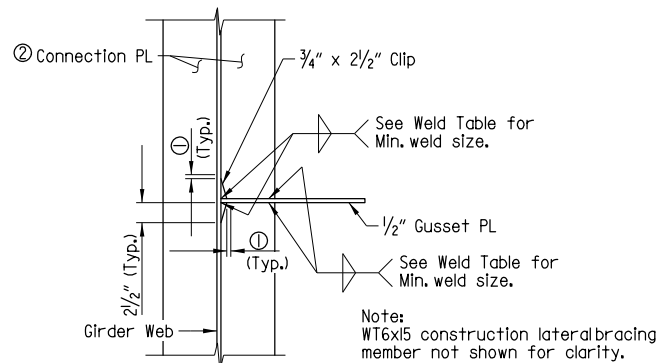


TOP FLANGE
1" = 1'-0"

BOTTOM FLANGE
1" = 1'-0"

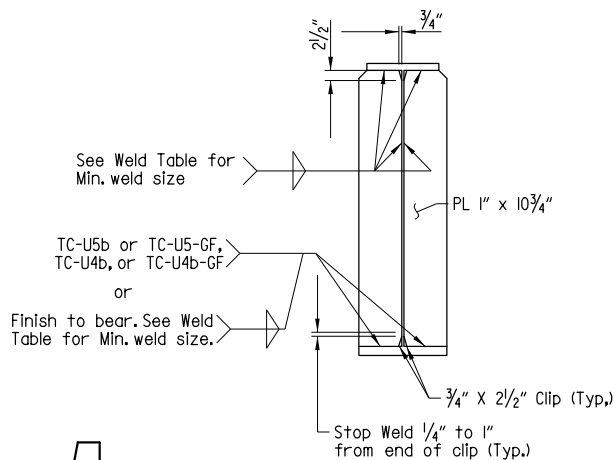


CROSS FRAME CONNECTION PLATE DETAIL

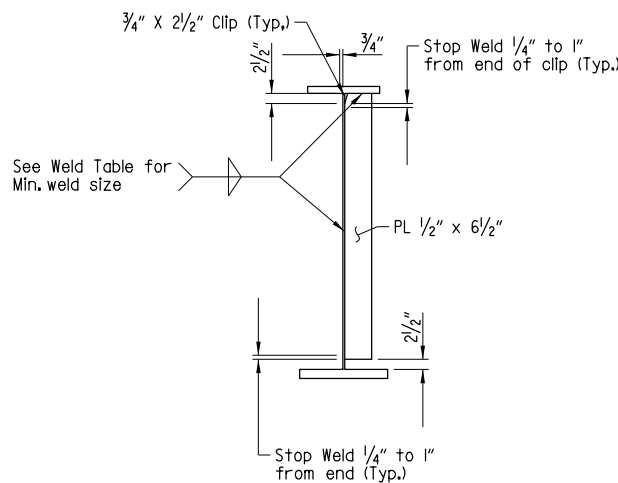
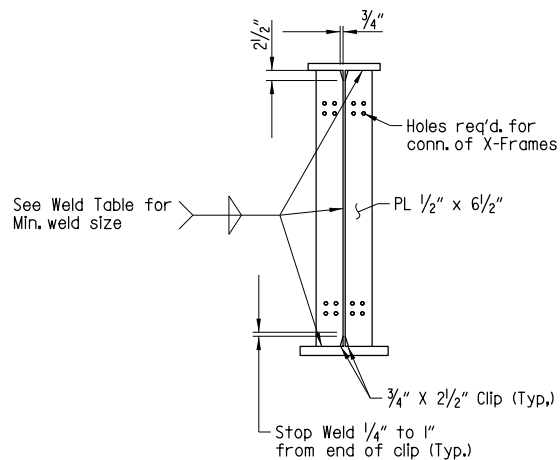


GUSSET PLATE AND CONNECTION PLATE DETAIL

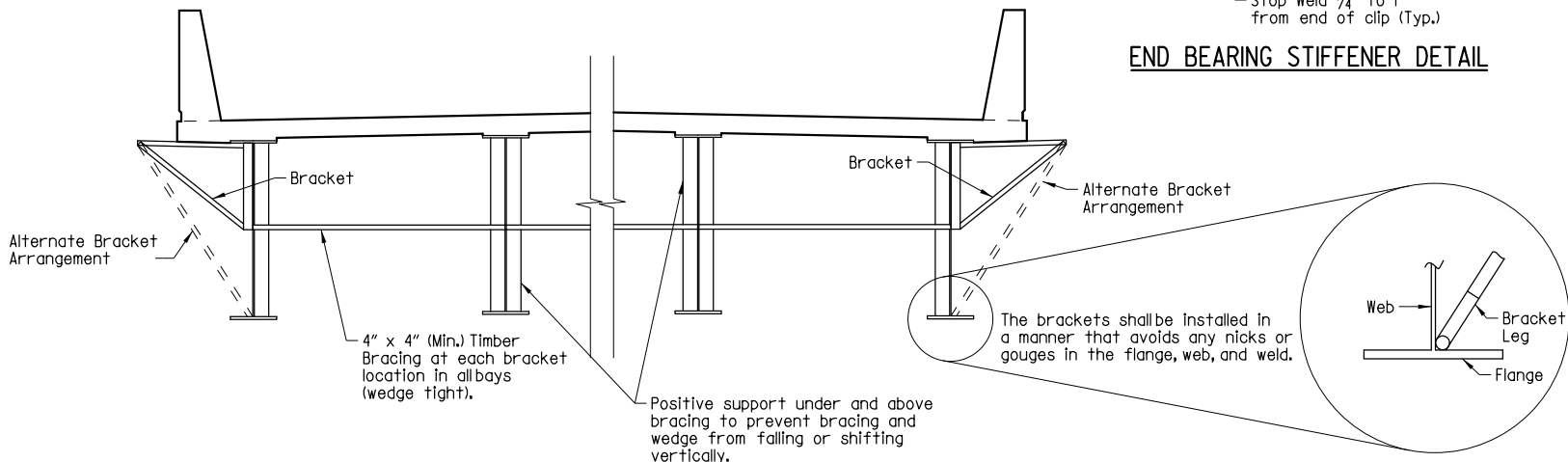
- ① Stop Weld 1/4" to 1" from end of clip.
- ② Connection plates shall be discontinuous at lateral bracing gusset plates.



END BEARING STIFFENER DETAIL



INT. STIFFENER DETAIL



Note: If a transverse finishing machine is used, the rail shall be supported directly over the exterior girders, or as an alternate, the rail may be supported by the overhang brackets if the above strutting system is used. The strutting system may be omitted if 1/2" x 6 1/2" web stiffeners are welded to the insides of the exterior girders at the location of each bracket or if the alternate bracket arrangement shown above is used. The Alternate Bracket arrangement shall extend down to the junction of the web and bottom flange. The stiffener shall conform to the details for cross frame connection plates shown on this drawing. No direct payment will be made for brackets, timber bracing, supports, or welded stiffeners. Payment shall be subsidiary to "Structural Steel in Plate Girder Spans (M 270, Gr. 50W)".

SCREED RAIL SUPPORT
No Scale

TABLE FOR WELD

Material Thickness of Thicker Part Joined (Inches)	Minimum Size of Fillet Weld (Inches)	Single Pass Weld Must Be Used
To 3/4" Inclusive	1/4"	
Over 3/4"	5/16"	

Note: When a fillet weld size, as shown on the plans, is larger than the minimum, the first pass shall be that specified for minimum size of fillet weld.



BRIDGE ENGINEER
PRINT DATE: 3/29/2019

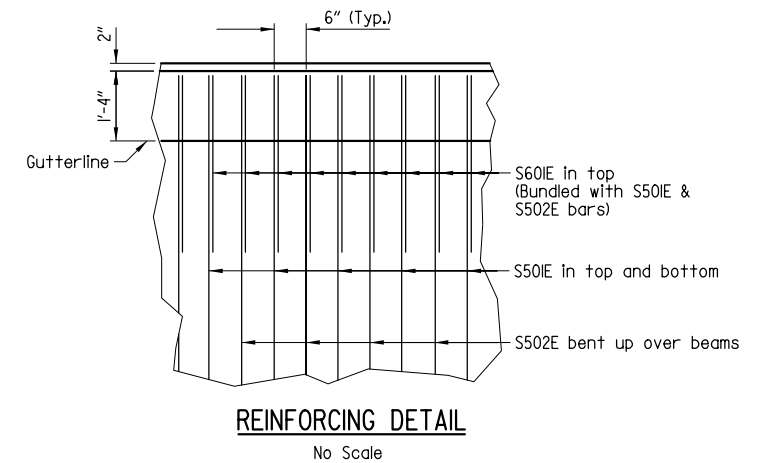
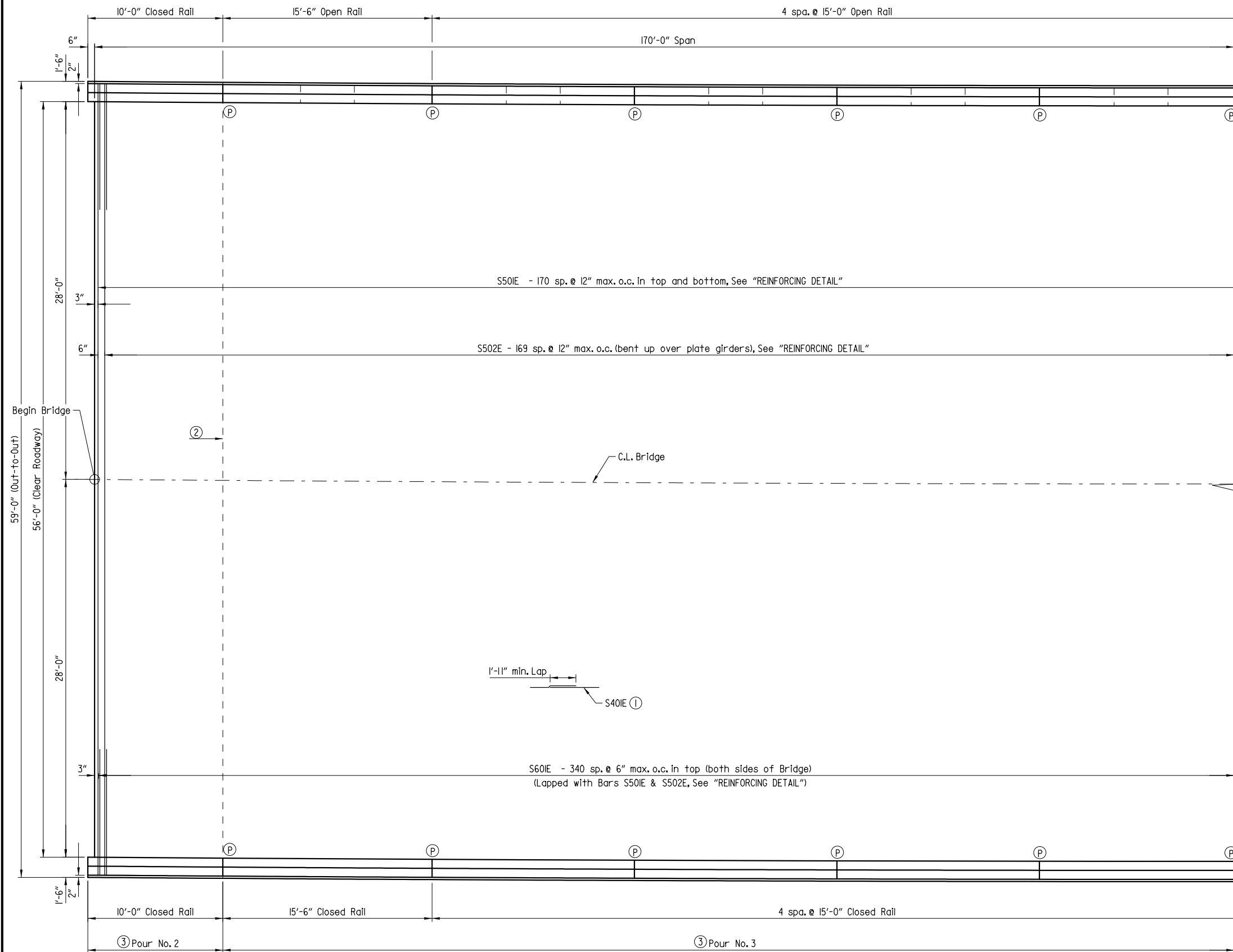
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CHECKED BY: SFH
DESIGNED BY: MKL
BRIDGE NO. A&B7427

DATE: 08/08/2018
DATE: 02/2019
DATE: 08/08/2018
DRAWING NO. 60319

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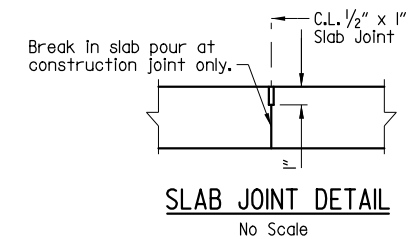
SHEET 6 OF 9
DETAILS OF
170'-0" COMPOSITE PLATE GIRDER SPAN
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
					JOB NO.	012307	58	68
				A&B7427 - 170'-0" SPAN - 60320				



Notes:
C.L. Median is on a 0°30'00" Curve left.
Longitudinal lines shall be constructed on
curves concentric w/ C.L. Median.
Begin/End Bridge Lines and transverse
reinforcing steel are normal to plate
girders built on 170'-0" chords. For more
information refer to Staking Diagram on
Dwg. No. 60306.

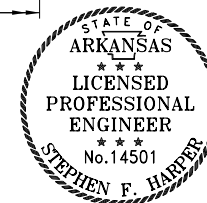
The Contractor shall not deviate from the pouring sequence shown.



Use Type 3 or 4 Joint Sealer. See Subsections 50L02 (h) and 50L05 (j). Backer rod filler will not be required. Joint Sealer shall be measured and paid for as Class S(AE) Concrete-Bridge. Slab joints shall extend to the outside edge of the deck slab. Slab joints shall be installed before the parapet railing is poured. If slab joints are to be sawed, they shall be sawed as soon as the concrete has sufficiently set to allow sawing of the joint without damage to the slab. Slab joints shall be placed at all pouring sequence construction joints and required slab joint locations. The joint sealer shall extend across the deck from gutterline to gutterline.

REINFORCING PLAN AND POURING SEQUENCE

- ③ See Dwg. No. 60315 for Pour No. 11 in lower portion of End Concrete Diaphragms.



BRIDGE ENGINEER
PRINT DATE: 3/29/2019

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 BRIDGE NO. A&B7427 DRAWING NO. 60320

SHEET 7 OF 9
DETAILS OF
170'-0" COMPOSITE PLATE GIRDER SPAN
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

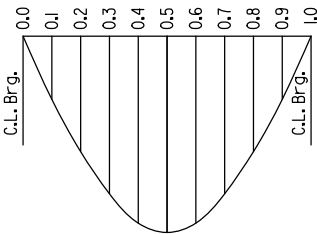
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REVISED DATE:

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		012307	59	68
				A&B7427 - 170'-0" SPAN - 60321				

Note:
C.L. Median is on a 0°30'00" Curve left.
Longitudinal lines shall be constructed on curves concentric w/ C.L. Median.
Begin/End Bridge Lines and transverse reinforcing steel are normal to plate girders built on 170'-0" chords. For more information refer to Staking Diagram on Dwg. No. 60306.

Note:
Pours with the same number may be placed simultaneously or separately. All pours (1) must be placed before pour (2) can be placed and all pours (2) must be placed before pour (3) can be placed. 48 hours shall elapse before the end of a pour and the start of the next pour. 72 hours shall elapse between the end of a pour and the start of an adjacent pour. 72 hours shall elapse between the completion of the entire deck and the pouring of the parapet. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer.

The Contractor shall not deviate from the pouring sequence shown.



DEAD LOAD DEFLECTION DIAGRAM
No Scale

TABLE OF DEAD LOAD DEFLECTIONS-INCHES

Span	Point of Deflection	Structural Steel		Structural Steel + Slab		Structural Steel + Slab + Rail	
		Interior	Exterior	Interior	Exterior	Interior	Exterior
170'-0"	0	0	0	0	0	0	0
	0.1	0.826	0.826	2.801	2.418	3.120	2.753
	0.2	1.544	1.544	5.233	4.518	5.830	5.143
	0.3	2.076	2.076	7.036	6.074	7.841	6.918
	0.4	2.411	2.411	8.170	7.053	9.107	8.035
	0.5	2.525	2.525	8.558	7.388	9.540	8.417
	0.6	2.411	2.411	8.170	7.053	9.107	8.035
	0.7	2.076	2.076	7.036	6.074	7.841	6.918
	0.8	1.544	1.544	5.233	4.518	5.830	5.143
	0.9	0.826	0.826	2.801	2.418	3.120	2.753
	1.0	0	0	0	0	0	0

Notes:
Camber for Dead Load Deflection plus Vertical Curve + or - 1/4" tolerance.
Deflections shown are along C.L. Girder from a chord from C.L. Bearing to C.L. Bearing. Vertical curve corrections not included. Negative sign (-) indicates point above chord.

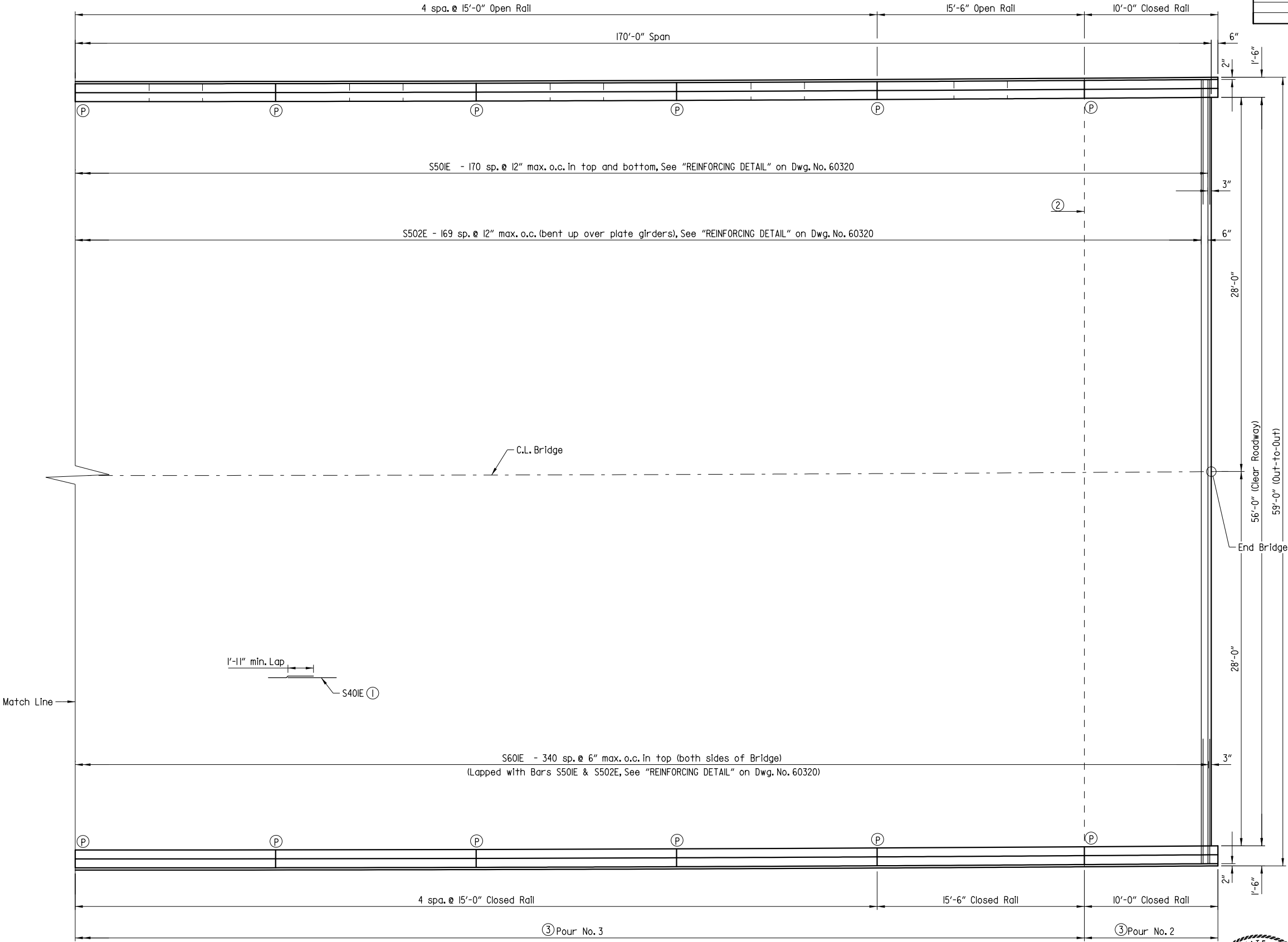
The Contractor shall carefully consider the chorded girders in combination with the curved roadway alignment in determining the required girder profiles. See Staking Diagram on Dwg. No. 60306 and Framing Plan on Dwg. Nos. 60317 and 60318.



BRIDGE ENGINEER
PRINT DATE: 3/29/2019

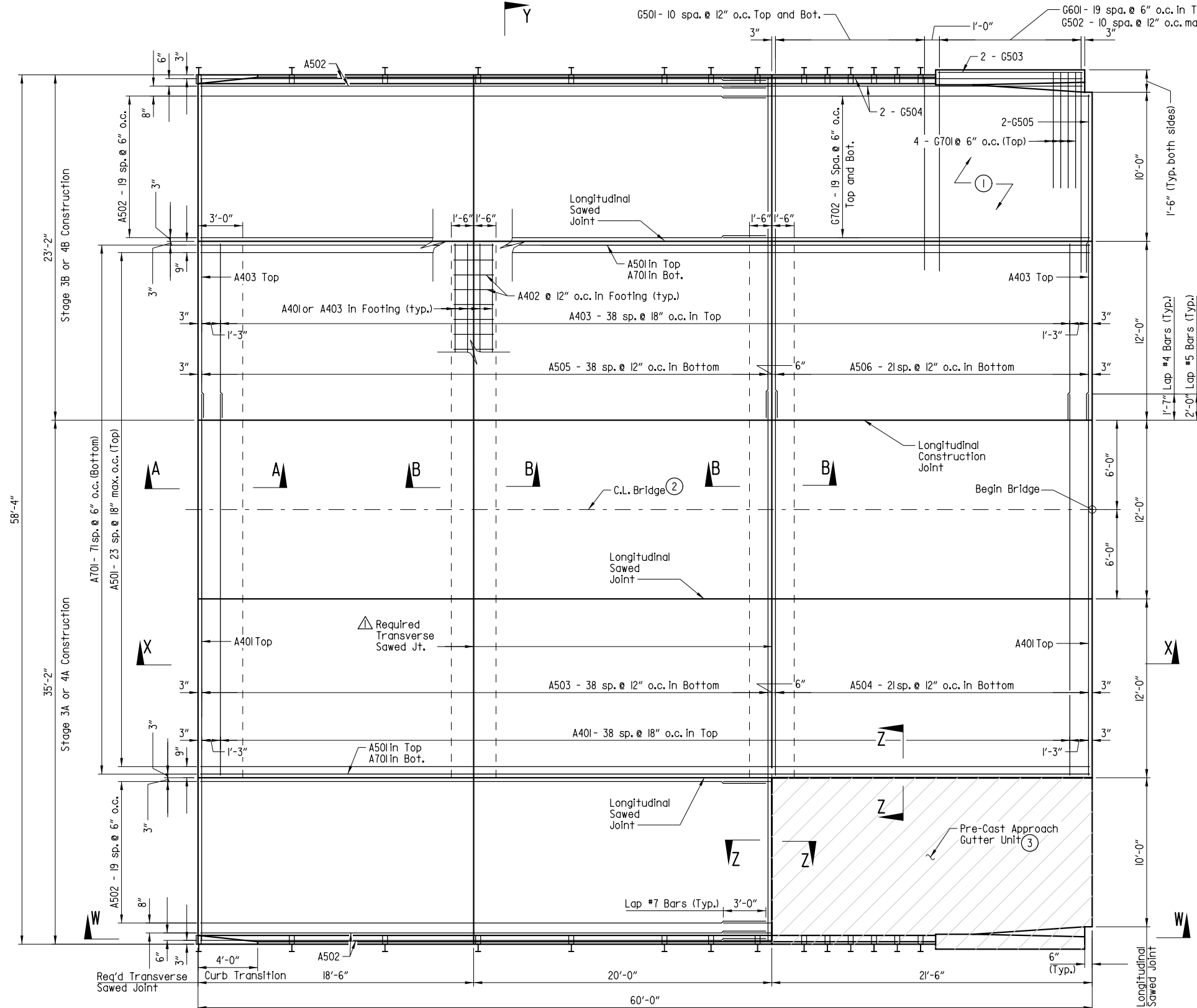
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DESIGNED BY: MKL
BRIDGE NO. A&B7427
DATE: 03/2018
DATE: 02/2019
DATE: 01/2018
DRAWING NO. 60321
FILENAME: B012307_SX8.dgn
SCALE: 1/4" = 1'-0"

SHEET 8 OF 9
DETAILS OF
170'-0" COMPOSITE PLATE GIRDER SPAN
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS



REINFORCING PLAN AND POURING SEQUENCE

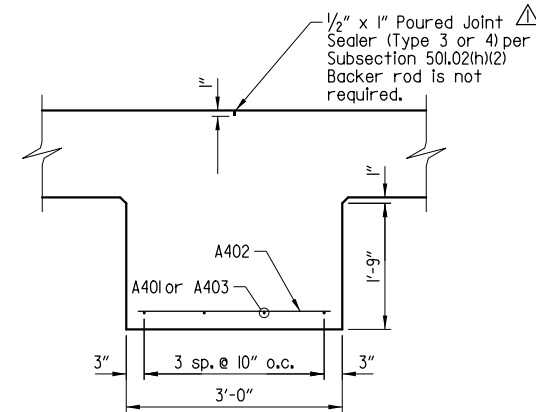
- Ⓟ Partial depth parapet joint at this location. (Stop 1'-6" above top of slab)
① Placed as shown in "Typical Section", See Dwg. No. 60314.
② Pouring Sequence Construction Joint
③ See Dwg. No. 60315 for Pour No. 1 in lower portion of End Concrete Diaphragms.



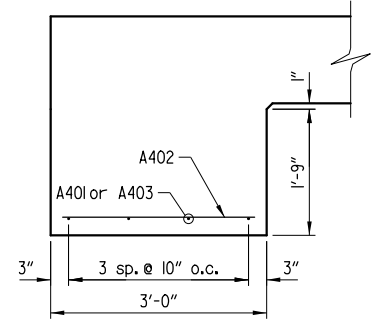
PLAN - APPROACH SLAB & GUTTER
Scale: 1/4" = 1'-0"
(Shown for Begin Bridge B7427 - other locations similar)

Interior Sleeper Beams shifted to be centered under Required Transverse Sawed Joints.

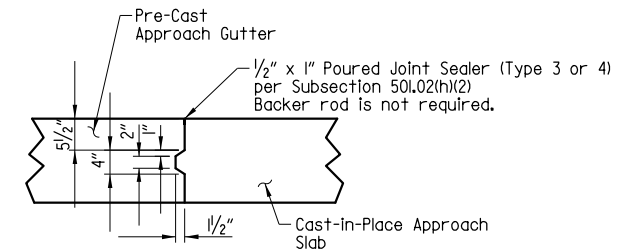
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6/10/2020				6	ARK.			
				JOB NO.		012307	61	68
A&B7427 - APP. SLAB & GUTTER - 60323								



SECTION B-B
No Scale



SECTION A-A
No Scale



SECTION Z-Z
3/4" = 1'-0"

- Approach gutter and railing reinforcing is duplicated for the cast-in-place portion (Stage 3B or 4B). See Dwg. No. 60325 for additional details.
- Parallel to C.L. I-30 Median and C.L. Construction on 0°30' Curve Lt.
- See Dwg. No. 60325 for Pre-Cast Approach Gutter reinforcement.

Note:
Construct Approach Slabs & Gutters on arcs concentric to C.L. Median. Place longitudinal bars on arcs concentric to C.L. Median. Place transverse bars radially.

Note:
For Sections W-W and X-X,
see Dwg. No. 60324.

GENERAL NOTES

All concrete, including adjacent Gutters, shall be Class S(AE) High Early Strength Concrete Pavement per Section 501.08 of the Standard Specifications (f'c = 4,000 psi).

Reinforcement Steel shall conform to AASHTO M 31 or M 322, Type A with Mill Test Reports, Gr. 60 (fy = 60,000 psi).

Approach Slabs will be measured and paid for in accordance with Section 504 of the Standard Specifications.

Surface finish for Approach Slabs to match that used on the bridge deck.



BRIDGE ENGINEER
PRINT DATE: 6/10/2020

DRAWN BY: HSS
CHECKED BY: SFH
DESIGNED BY: HSS
BRIDGE NO. A&B7427
DATE: 11/2018
DATE: 02/2019
DATE: 11/2018
DRAWING NO. 60323
FILENAME: B012307_ASL.dgn
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SHEET 1 OF 3
DETAILS OF
TYPE SPECIAL APPROACH
SLAB & GUTTER
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

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WORKSPACE: ARDOT
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REVISED DATE:

Interior Sleeper Beams shifted
to be centered under Required
Transverse Sawn Joints.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
6/10/2020				6	ARK.			
				JOB NO.		012307	62	68
A&B7427 - APP. SLAB & GUTTER - 60324								

QUANTITIES FOR ONE
TYPE SPECIAL APPROACH SLAB

Length (ft.)	Reinforcing Steel (lbs.)	Concrete (cubic yds)
60'-0"	19,190	169.89

BAR LIST FOR TYPE SPECIAL
APPROACH SLAB & GUTTERS
(PER BRIDGE END)

MARK	NO. REQ'D.	LENGTH	PIN DIA.	BENDING DIAGRAMS Dimensions are out to out of bars.
A401	53	25'-7"	Str.	
A402	111	2'-8"	Str.	
A403	53	11'-8"	Str.	
A501	26	59'-8"	Str.	
A502	44	38'-2"	Str.	
A503	39	37'-2"	Str.	
A504	22	26'-0"	Str.	
A505	39	22'-10"	Str.	
A506	22	11'-8"	Str.	
A701	72	59'-8"	Str.	
G501	11	13'-0"	Str.	
G502	11	13'-4"	Str.	
G503	2	9'-8"	Str.	
G504	4	22'-10"	Str.	
G505	2	23'-4"	Str.	
G601	20	14'-5"	4 1/2"	
G701	4	7'-9"	5 1/4"	
G702	20	24'-6"	Str.	
R401	12	9'-8"	Str.	
R601	11	5'-3"	4 1/2"	
R602	11	5'-5"	4 1/2"	

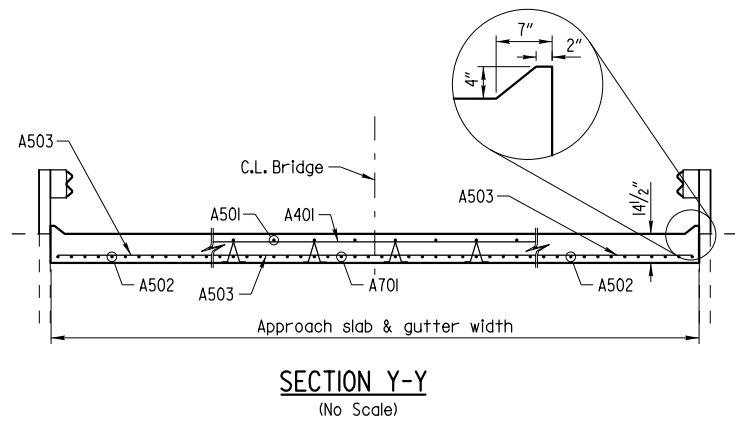
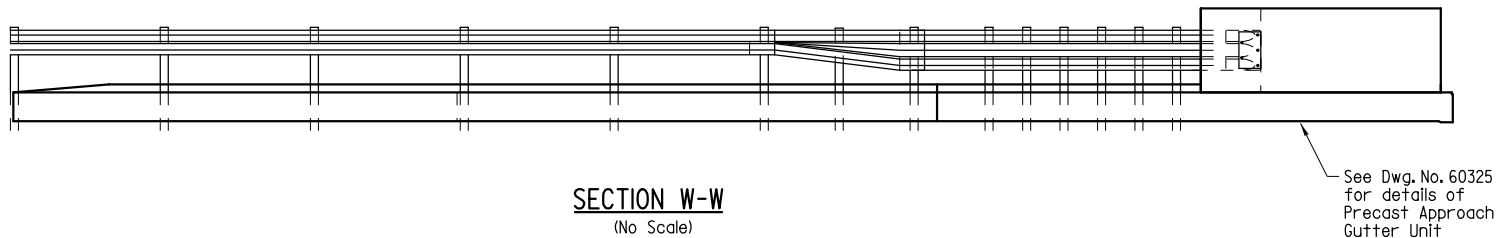
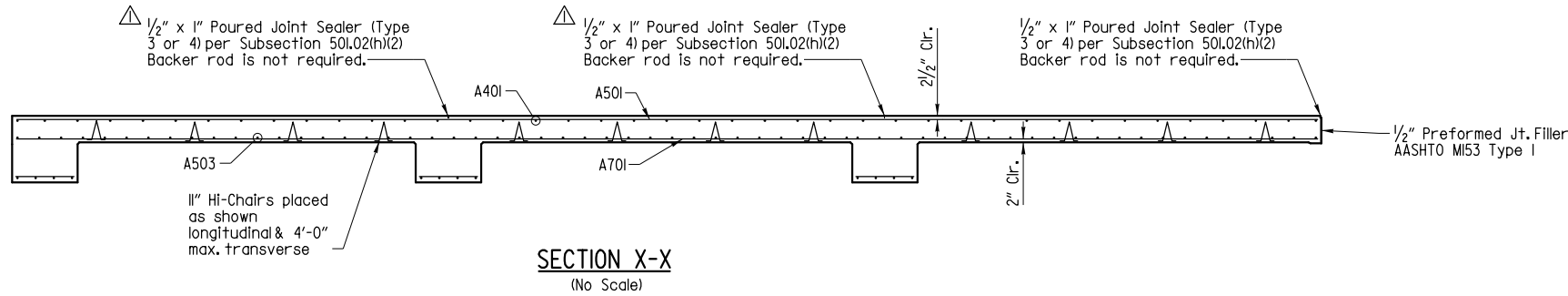
See Dwg. No. 60325 for Pre-Cast Approach Gutter reinforcement.

SHEET 2 OF 3
DETAILS OF
TYPE SPECIAL APPROACH
SLAB & GUTTER
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

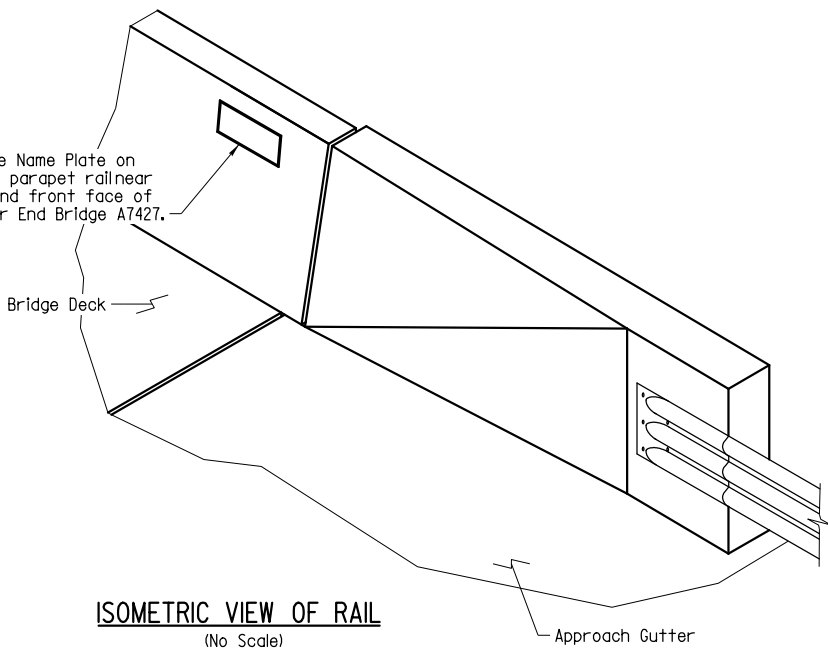


BRIDGE ENGINEER
PRINT DATE: 6/10/2020

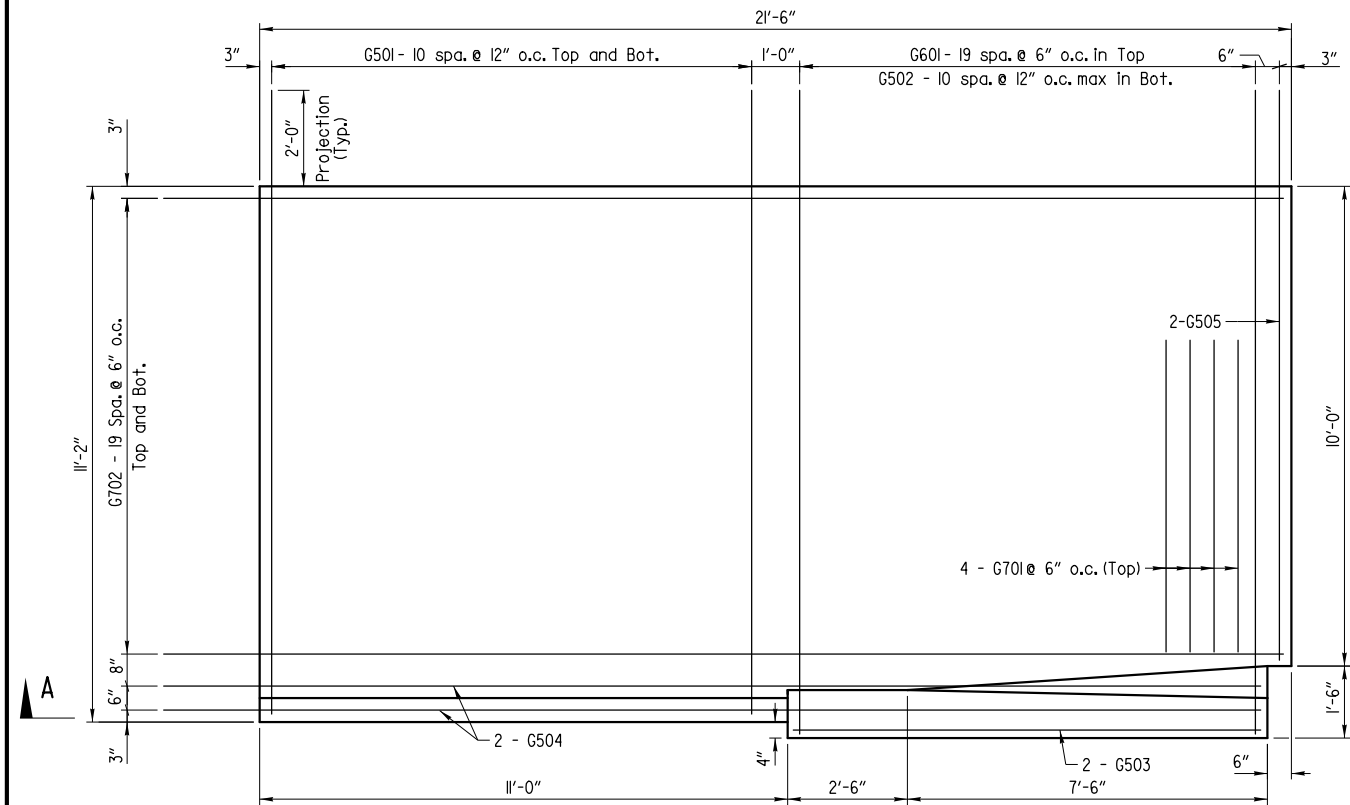
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CHECKED BY: SFH DATE: 02/2019
DESIGNED BY: HSS DATE: 11/2018
BRIDGE NO. A&B7427 DRAWING NO. 60324
SCALE: As Shown
FILENAME: B012307_ASY2.dgn



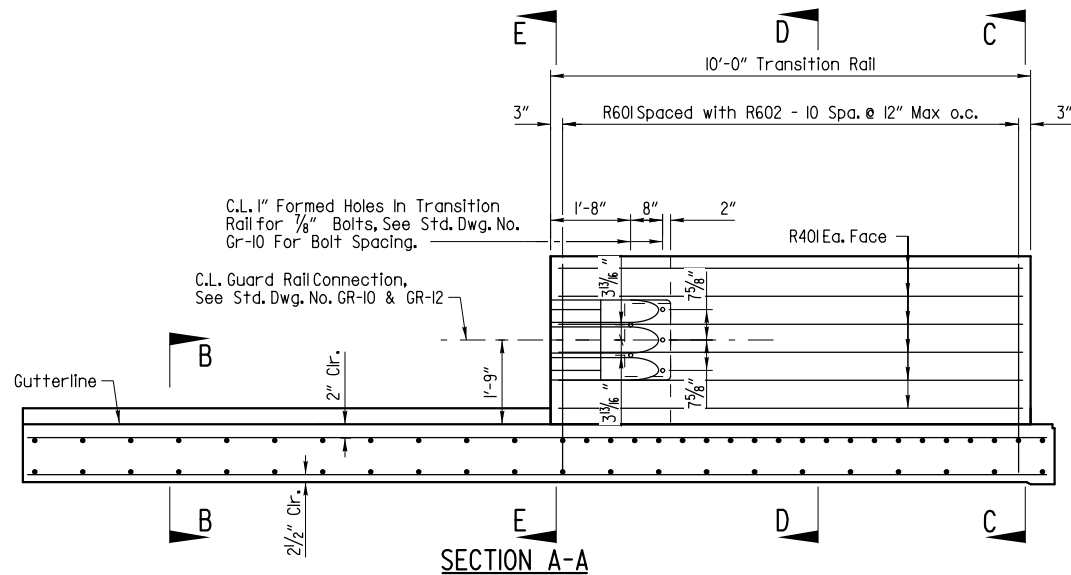
Place Type "D" Bridge Name Plate on
front face of right parapet rail near
Begin Bridge B7427, and front face of
left parapet rail near End Bridge A7427.



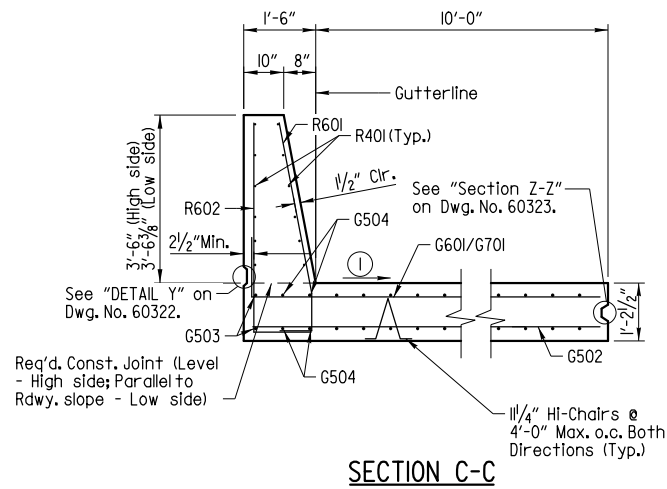
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REVISED DATE:



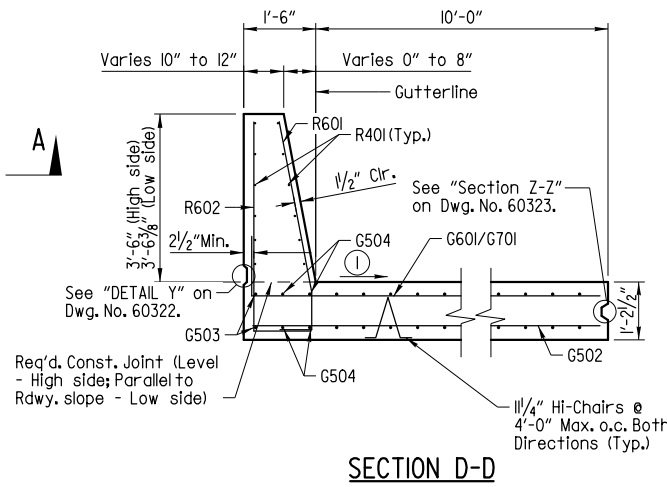
PLAN - PRECAST APPROACH GUTTER
(Shown for Begin Bridge B7427 - adjust orientation at other locations)



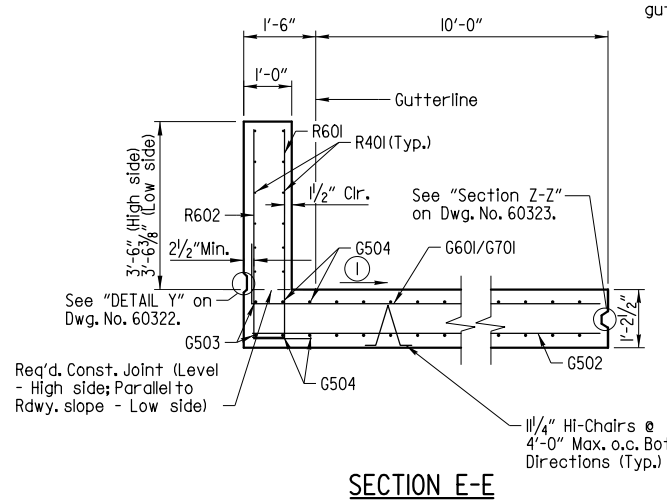
SECTION A-A



SECTION C-C



SECTION D-D



SECTION E-E

① Match Roadway cross-slope as required at a given approach gutter location

BAR LIST FOR TYPE SPECIAL PRECAST
APPROACH GUTTER (PER BRIDGE END)

MARK	NO. REQ'D.	LENGTH	PIN DIA.	BENDING DIAGRAMS Dimensions are out to out of bars.
G501	11	13'-0"	Str.	
G502	11	13'-4"	Str.	
G503	2	9'-8"	Str.	
G504	4	22'-10"	Str.	
G505	2	23'-4"	Str.	
G601	20	14'-5"	4 1/2"	
G701	4	7'-9"	5 1/4"	
G702	20	24'-6"	Str.	
R401	12	9'-8"	Str.	
R601	11	5'-3"	4 1/2"	
R602	11	5'-5"	4 1/2"	

QUANTITIES FOR ONE
TYPE SPECIAL PRECAST APPROACH GUTTER

Length (ft.)	Reinforcing Steel (lbs.)	Concrete (cubic yds)
21'-6"	2,218	12.39

GENERAL NOTES

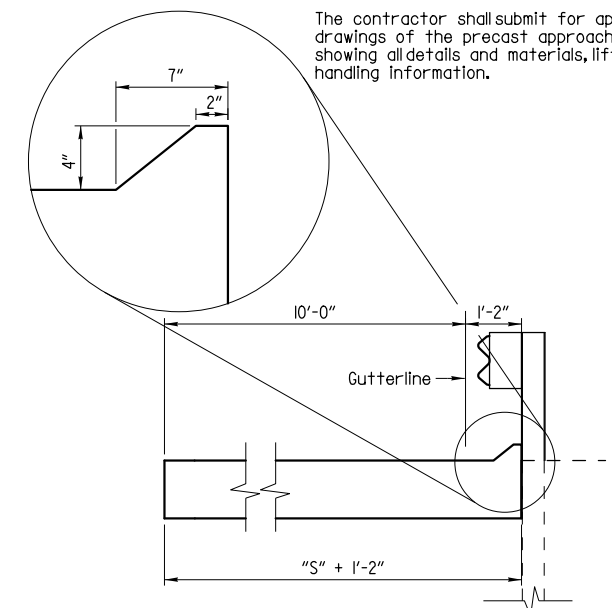
Concrete shall be Class S(AE) (f'c = 4,000 psi).

Reinforcement Steel shall conform to AASHTO M 31 or M 322, Type A with Mill Test Reports, Gr. 60 (fy = 60,000 psi).

Approach Gutters will be measured and paid for in accordance with Section 504 of the Standard Specifications.

Surface finish for Approach Gutters to match that used on the bridge deck.

The contractor shall submit for approval shop drawings of the precast approach gutters showing all details and materials, lifting points and handling information.



SECTION B-B

SHEET 3 OF 3
DETAILS OF
TYPE SPECIAL APPROACH
SLAB & GUTTER
DE ROCHE CREEK STRS. & APPRS. (S)
ROUTE SECTIONS
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS



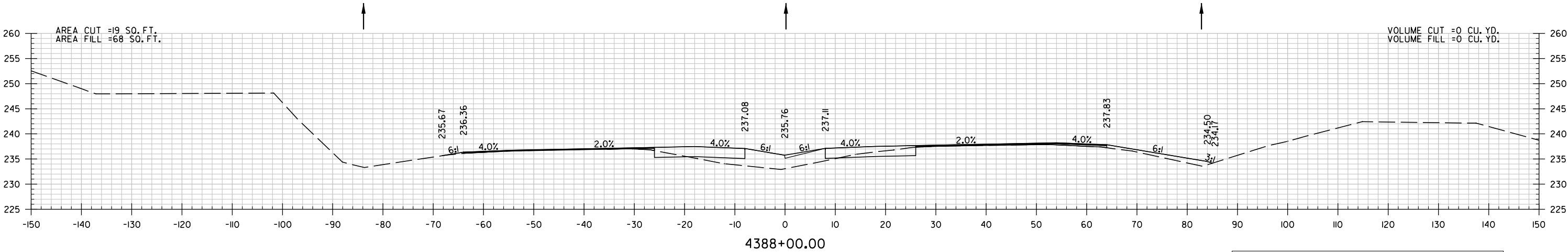
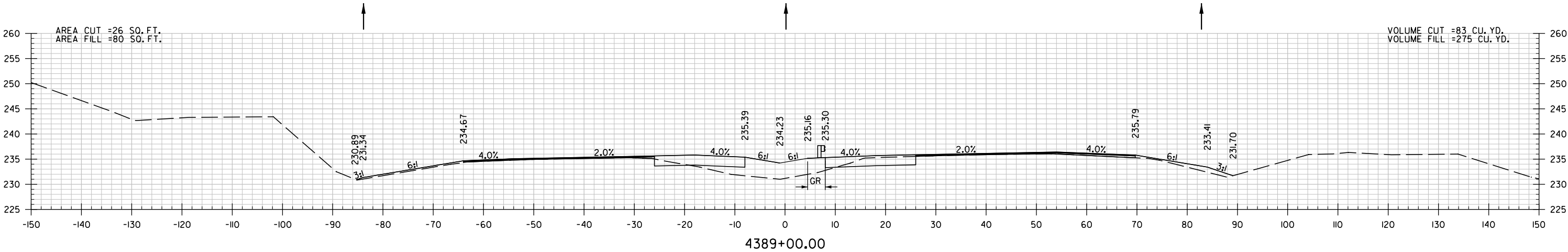
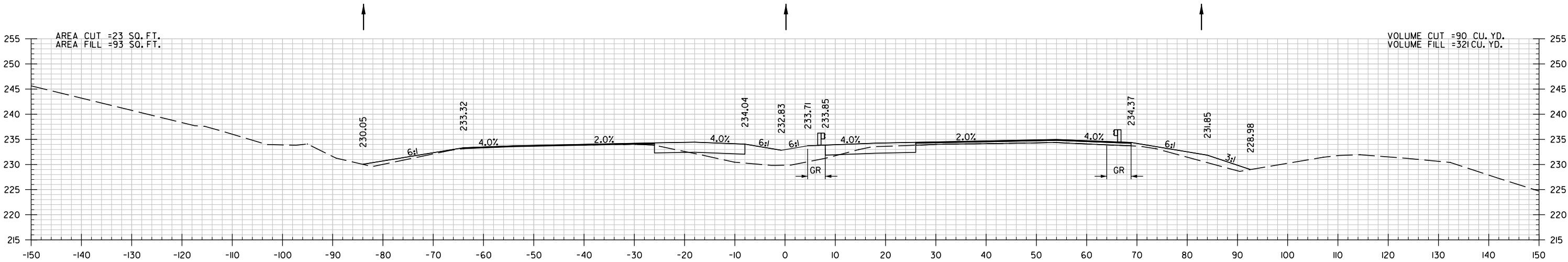
BRIDGE ENGINEER
PRINT DATE: 3/29/2019

DRAWN BY: HSS DATE: 11/2018
CHECKED BY: SFH DATE: 02/2019
DESIGNED BY: HSS DATE: 11/2018
BRIDGE NO. A&B7427 DRAWING NO. 60325
SCALE: 1/2" = 1'-0"

FILENAME: B012307_ASK3.dgn

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REVISED DATE: **REDATE**

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				6	ARK.			
				JOB NO.		012307	64	68
②				CROSS SECTIONS				

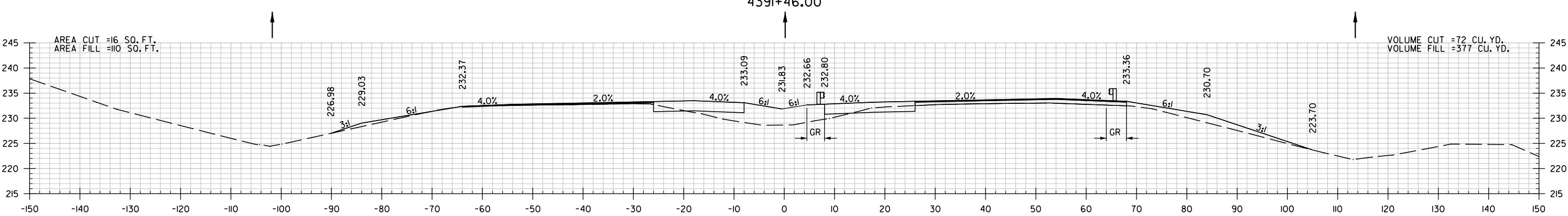
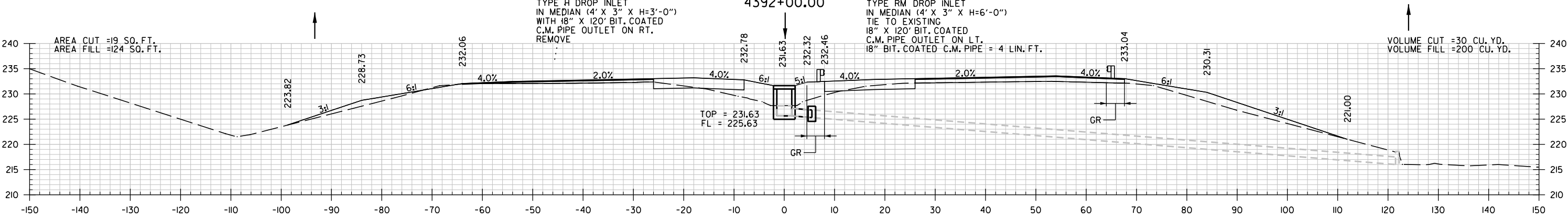
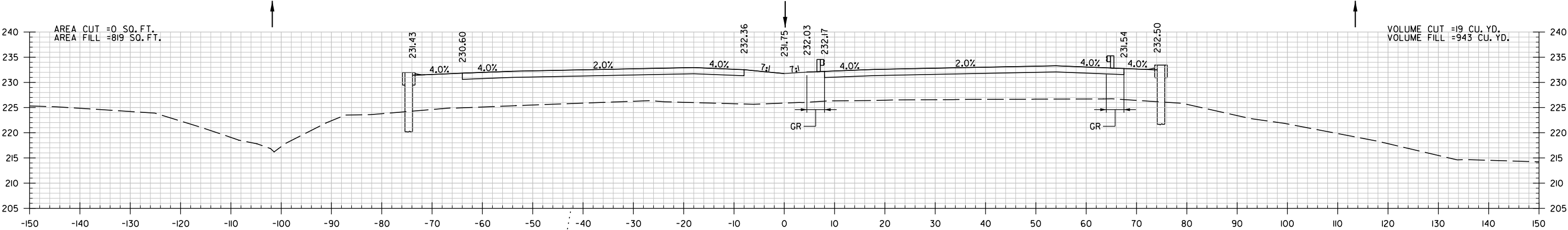


STA. 4388+00.00 BEGIN JOB 012307

STA. 4388+00 TO STA. 4390+00

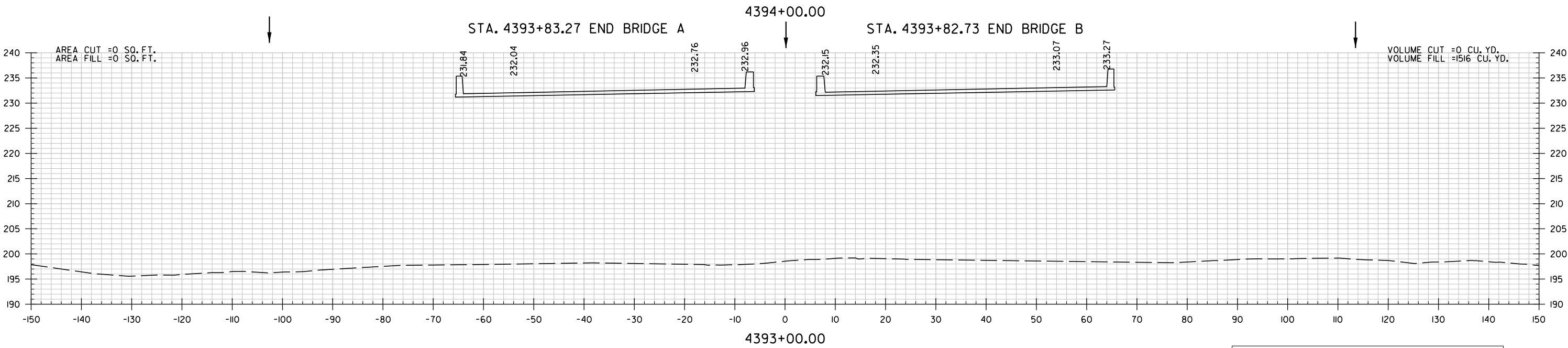
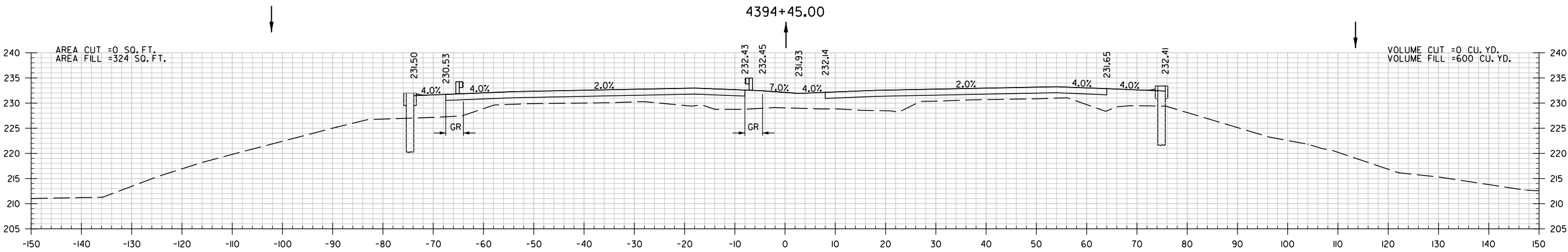
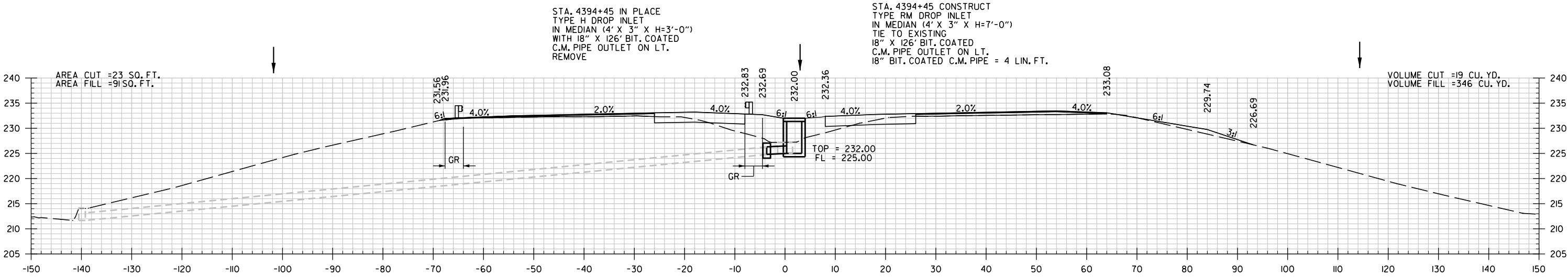
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				6	ARK.			
				JOB NO.		012307	65	68
2 CROSS SECTIONS								

STA. 4392+12.73 BEGIN BRIDGE A
STA. 4392+13.27 BEGIN BRIDGE B



STA. 4391+00 TO STA. 4392+00

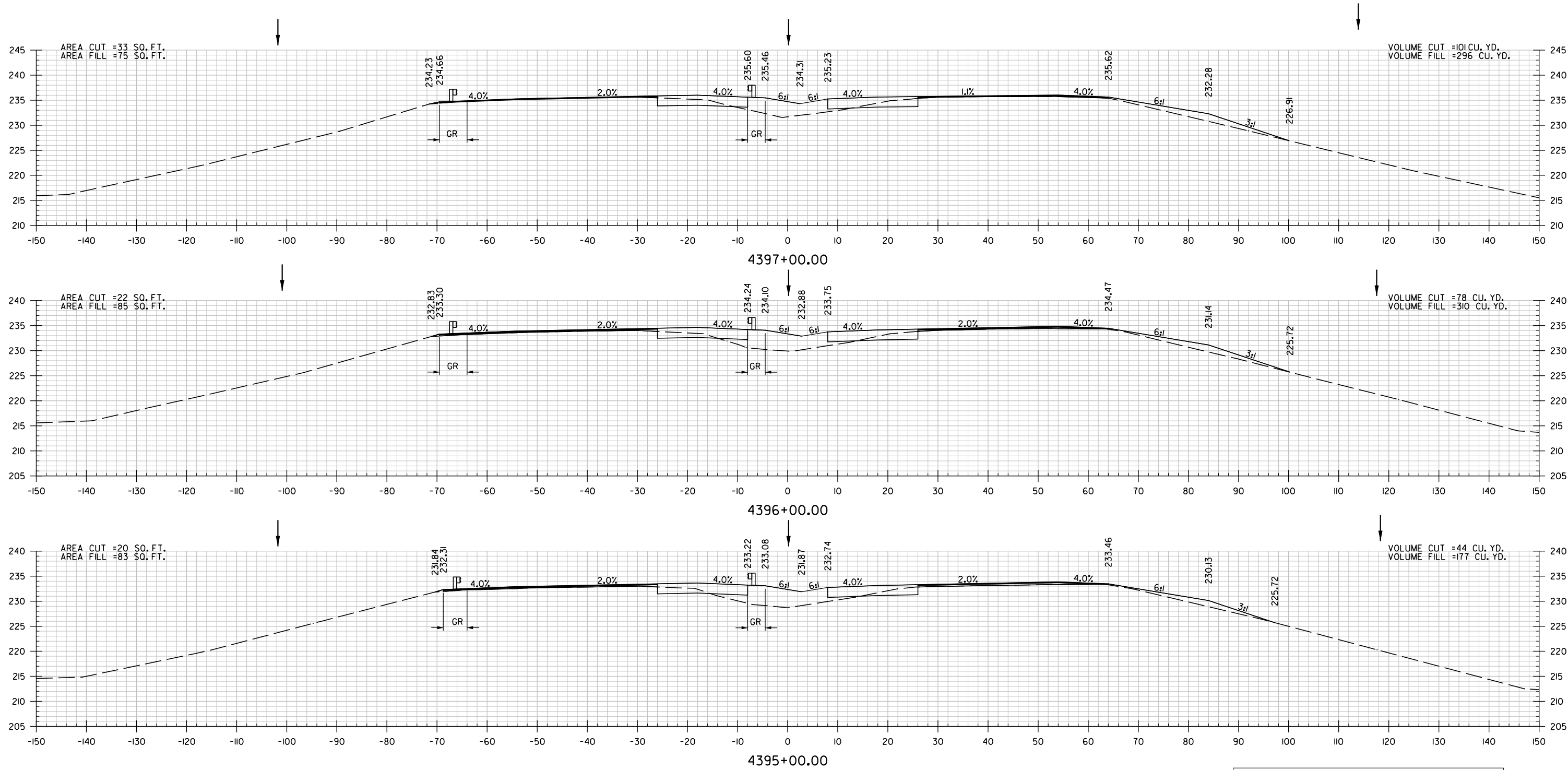
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				JOB NO.		012307	66	68
2 CROSS SECTIONS								



STA. 4393+00 TO STA. 4394+45

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REVISED DATE: **REDATE**

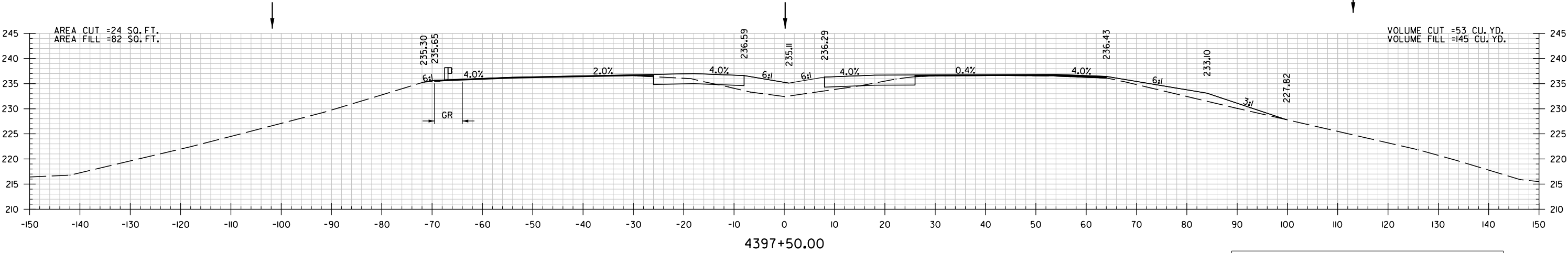
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2 CROSS SECTIONS								



STA. 4395+00 TO STA. 4397+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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				JOB NO.		012307	68	68
2 CROSS SECTIONS								

STA. 4397+50.00 END JOB 012307



STA. 4397+50 TO STA. 4397+50