

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

KING BAYOU STR. & APPRS. (S)

ARKANSAS COUNTY
ROUTE 343 SECTION 1

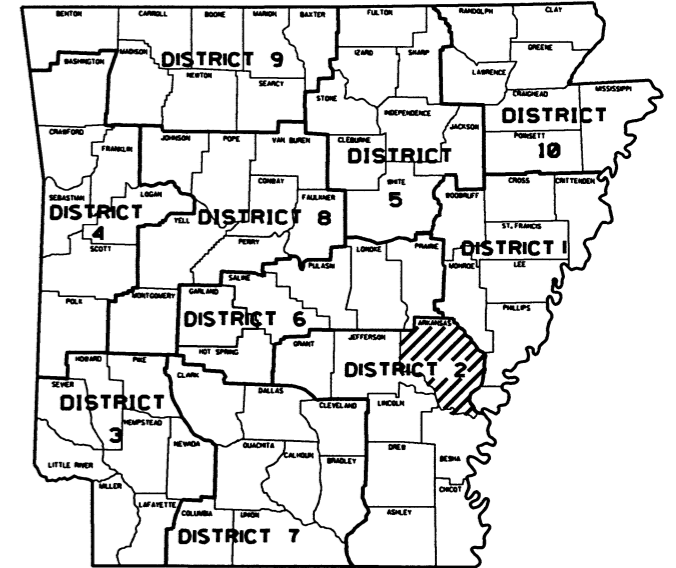
F.A.P. NHPP-0001(94)

JOB 020582

NOT TO SCALE

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 020582	1	29

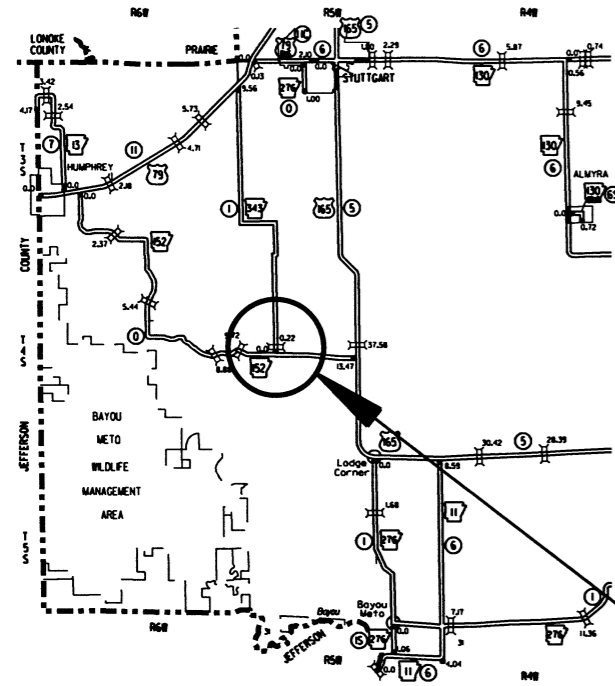
② KING BAYOU STR. & APPRS. (S)



ARKANSAS HWY. DIST. 2

• DESIGN TRAFFIC DATA •

DESIGN YEAR-----	2039
2019 ADT-----	230
2039 ADT-----	300
2039 DHV-----	33
DIRECTIONAL DISTRIBUTION-----	0.60
TRUCKS-----	4%
DESIGN SPEED-----	55 MPH

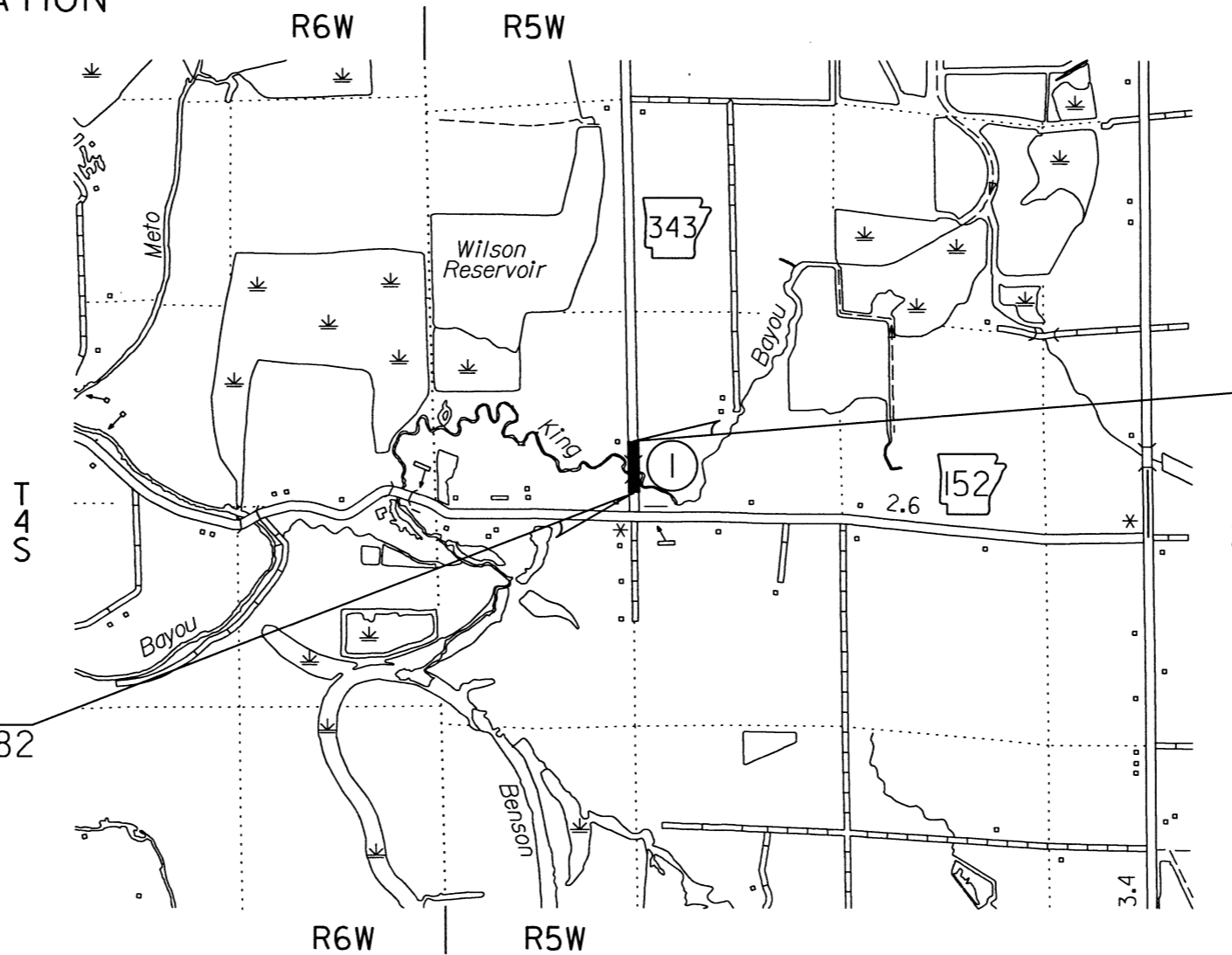


VICINITY MAP

PROJECT LOCATION

BRIDGE DATA

- ① STA. 105+42.00 BRIDGE END
BRIDGE NO. 07422
PRECAST CONCRETE SPANS (5 @ 31'-0")
31'-6" CLEAR ROADWAY
155'-0" BRIDGE LENGTH
STA. 106+97.00 BRIDGE END



STA. 103+00.00
BEGIN JOB 020582
LOG MILE 0.17

STA. 109+75.00
END JOB 020582



APPROVED



12-6-18
DEPUTY DIRECTOR
AND CHIEF ENGINEER

P.E. JOB 020582

PROJECT LENGTH CALCULATED ALONG C.L. CONSTRUCTION
GROSS LENGTH OF PROJECT 675.00 FEET OR 0.128 MILES
NET LENGTH OF ROADWAY 520.00 FEET OR 0.099 MILES
NET LENGTH OF BRIDGES 155.00 FEET OR 0.029 MILES
NET LENGTH OF PROJECT 675.00 FEET OR 0.128 MILES

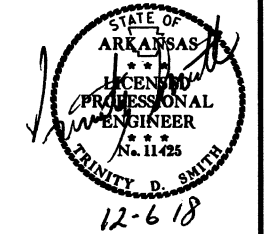
	BEGIN PROJECT	MID-POINT OF PROJECT	END PROJECT
LATITUDE	N34°-20'-55"	N34°-21'-00"	N34°-21'-06"
LONGITUDE	W91°-34'-48"	W91°-34'-48"	W91°-34'-48"

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② INDEX OF SHEETS AND 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	SPECIAL DETAILS		
6 - 7	TEMPORARY EROSION CONTROL DETAILS		
8	MAINTENANCE OF TRAFFIC DETAILS		
9	PERMANENT PAVEMENT MARKING DETAILS		
10 - 12	QUANTITIES		
13	SCHEDULE OF BRIDGE QUANTITIES	07422	60295
14	SUMMARY OF QUANTITIES AND REVISIONS		
15 - 17	SURVEY CONTROL DETAILS		
18	PLAN AND PROFILE SHEET		
19	LAYOUT OF BRIDGE OVER KING BAYOU (SHEET 1 OF 2)	07422	60296
20	LAYOUT OF BRIDGE OVER KING BAYOU (SHEET 2 OF 2)	07422	60297
21	DETAILS OF PRECAST ABUTMENTS	07422	60298
22	DETAILS OF PRECAST BENT CAPS	07422	60299
23	DETAILS FOR 31'-0" PRECAST CONCRETE SPANS 31'-6" CLEAR ROADWAY	07422	60300
24	DETAILS FOR PRECAST PARAPET RAILS 31'-0" PRECAST END SPANS	07422	60301
25 - 29	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
55010	STANDARD DETAILS FOR TYPE D BRIDGE NAME PLATE	02-27-14
55021	STANDARD DETAILS FOR CONCRETE FILLED STEEL SHELL PILES AND PILE ENCASEMENTS	03-24-16
55030D	STANDARD DETAILS FOR TYPE D APPROACH GUTTERS	02-27-14
55040D	STANDARD DETAILS FOR TYPE D APPROACH SLAB	02-27-14

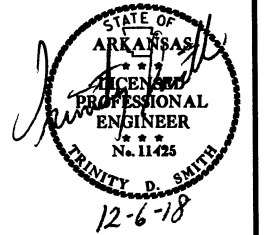
ROADWAY STANDARD DRAWINGS

DRWG. NO.	TITLE	DATE
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
PU-1	DETAILS OF PIPE UNDERDRAIN	12-08-16
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
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

INDEX OF SHEETS AND STANDARD DRAWINGS

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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2 GOVERNING SPECIFICATIONS AND GEN. NOTES



GOVERNING SPECIFICATIONS

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

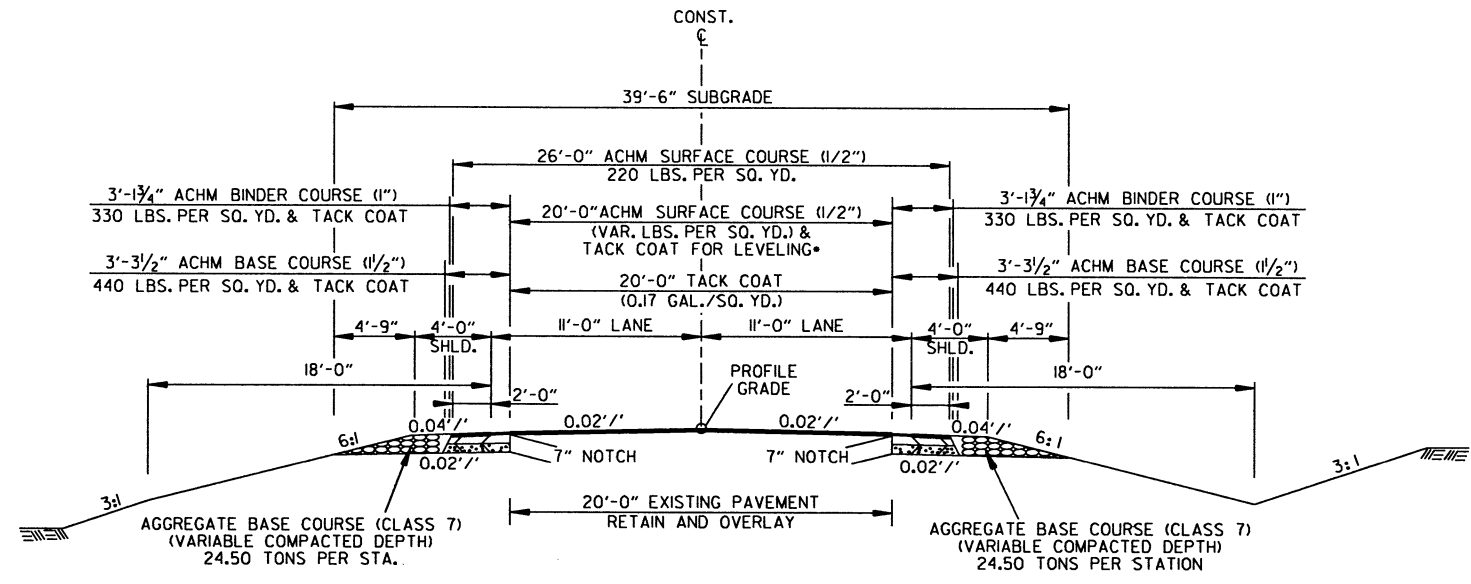
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
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
606-1	PIPE CULVERTS FOR SIDE DRAINS
617-1	GUARDRAIL TERMINAL (TYPE 2)
620-1	MULCH COVER
800-1	STRUCTURES
802-3	CONCRETE FOR STRUCTURES
JOB 020582	BIDDING REQUIREMENTS AND CONDITIONS
JOB 020582	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 020582	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB 020582	CARGO PREFERENCE ACT REQUIREMENTS
JOB 020582	CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE
JOB 020582	CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS
JOB 020582	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 020582	FLEXIBLE BEGINNING OF WORK
JOB 020582	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 020582	MAINTENANCE OF TRAFFIC
JOB 020582	MANDATORY ELECTRONIC CONTRACT
JOB 020582	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 020582	NESTING SITES OF MIGRATORY BIRDS
JOB 020582	PLASTIC PIPE
JOB 020582	PRECAST SUBSTRUCTURE
JOB 020582	SECTION 404 NATIONWIDE 14 PERMIT REQUIREMENTS
JOB 020582	SETTLEMENT AGREEMENTS
JOB 020582	SOIL STABILIZATION
JOB 020582	STORM WATER POLLUTION PREVENTION PLAN
JOB 020582	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 020582	UTILITY ADJUSTMENTS
JOB 020582	WARM MIX ASPHALT

GENERAL NOTES

- GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U. S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
- THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- 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.

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2 TYPICAL SECTIONS OF IMPROVEMENT



HWY. 343 NOTCH AND WIDEN OPEN SHOULDER

*TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

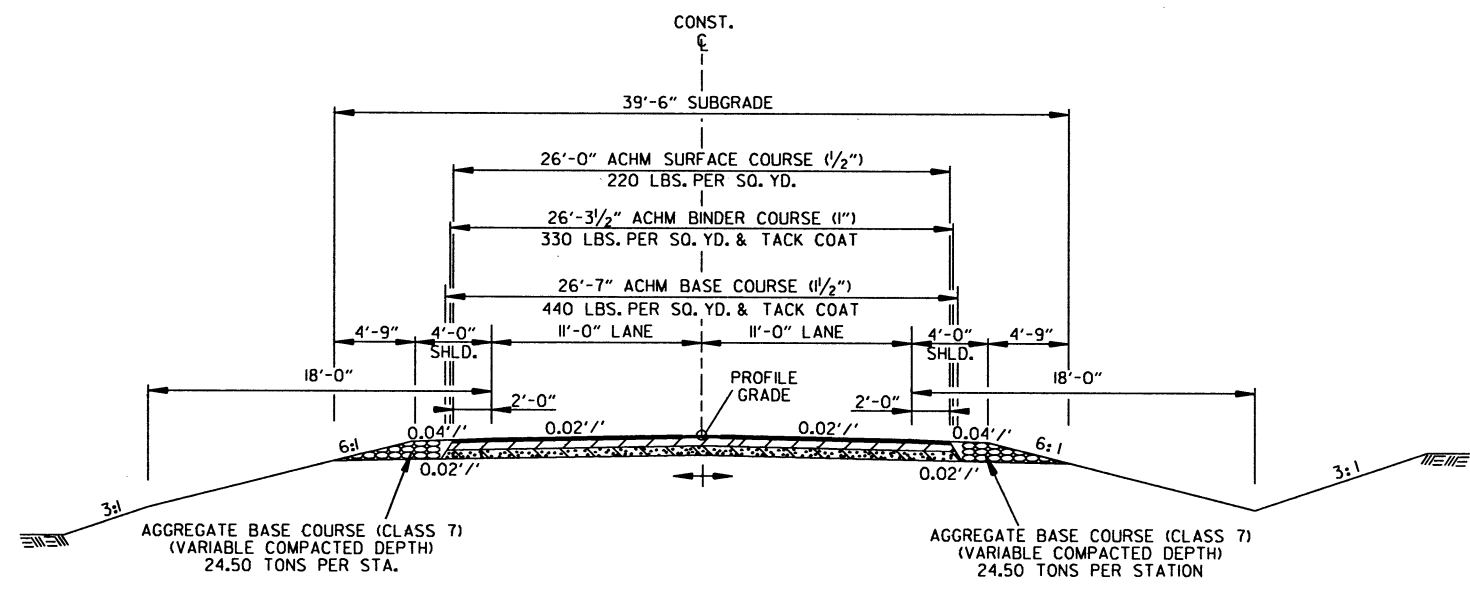
STA. 103+00.00 - STA. 105+26.00
STA. 109+25.00 - STA. 109+75.00

NOTES:
REFER TO CROSS SECTIONS FOR DEVIATION FROM THE NORMAL SLOPES. NO CHANGES SHALL BE MADE FROM THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.

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 TOLERANCE INDICATED. PAYMENT WILL NOT BE MADE FOR MATERIAL PLACED IN EXCESS OF THE TOLERANCE INDICATED.

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.

THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT LANE LINES.



HWY. 343 FULL DEPTH OPEN SHOULDER

STA. 107+13.00 - STA. 109+25.00

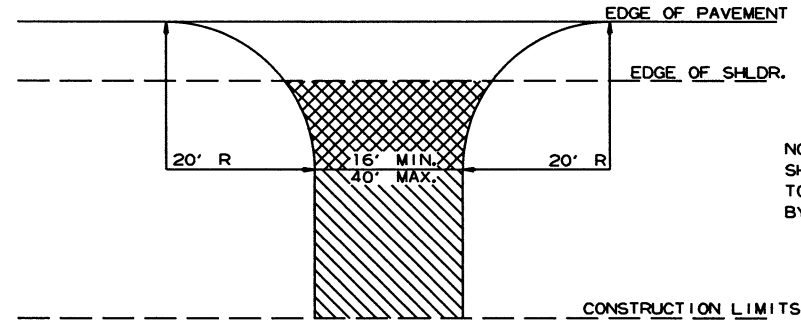
TYPICAL SECTIONS OF IMPROVEMENT

9/10/2018

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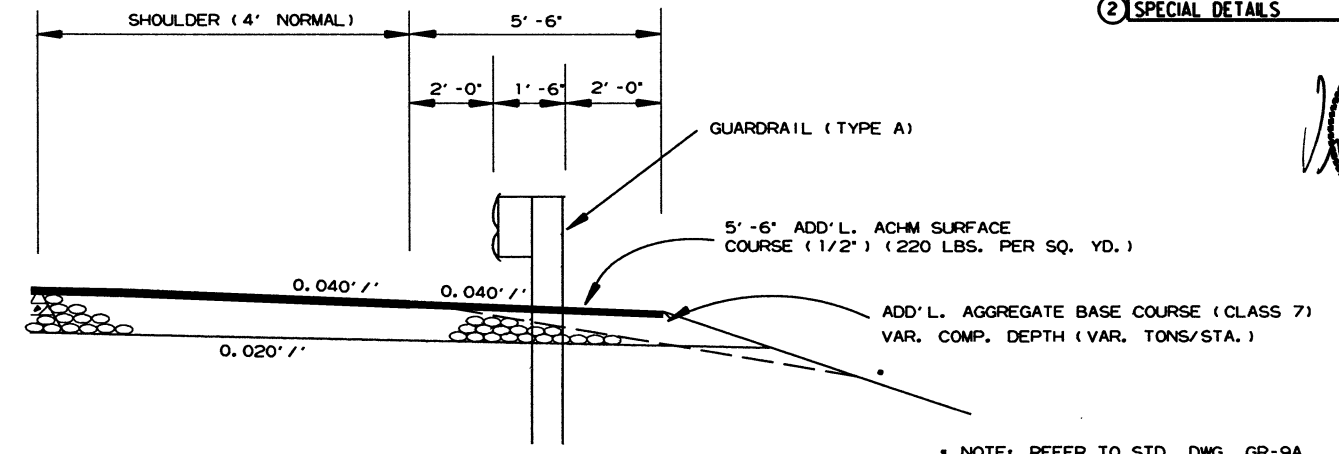
2 SPECIAL DETAILS



NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

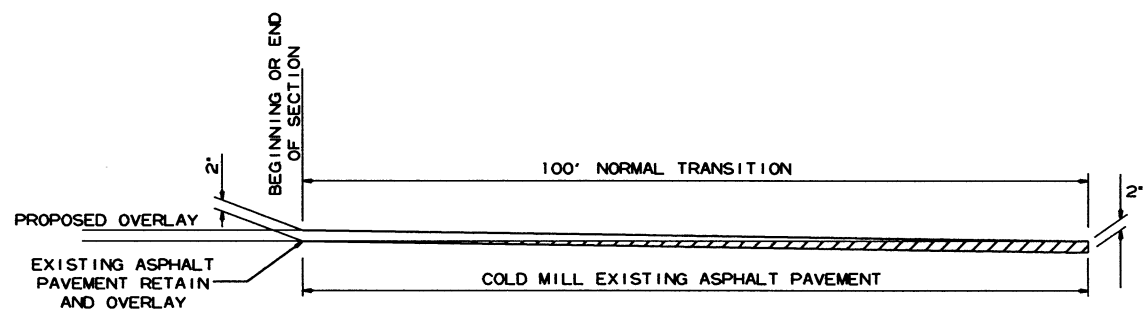
- ASPHALT CONCRETE HOT MIX SURFACE COURSE (220 LBS. PER SQ. YD.)
AGGREGATE BASE COURSE (CLASS 7)
7" COMP. DEPTH IF ASPHALT DRIVE EXIST OR
6" CONCRETE IF CONCRETE DRIVE EXIST.
- AGGREGATE BASE COURSE (CLASS 7)
9" COMP. DEPTH OR CONFORM
TO EXISTING DRIVEWAY

DETAIL FOR DRIVEWAY TURNOUTS
(COLLECTORS)

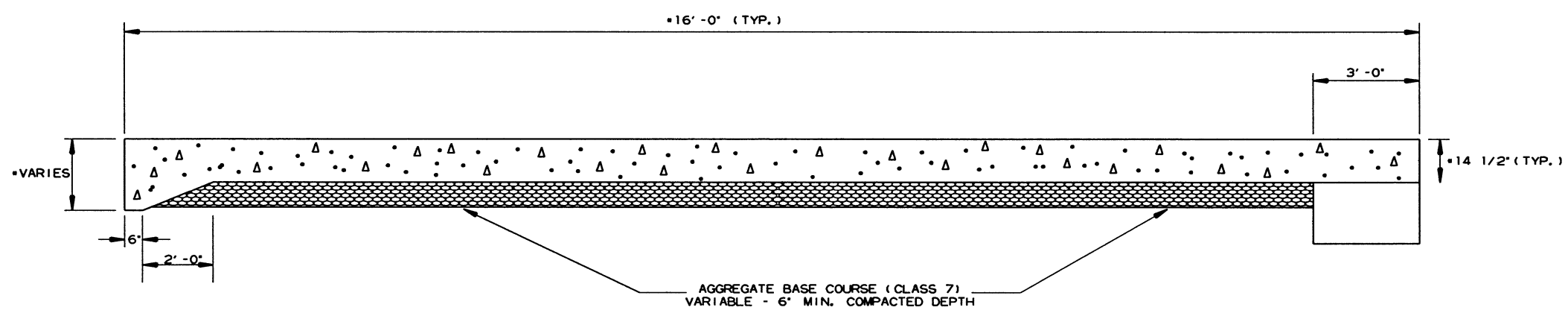


WIDENING FOR GUARDRAIL

* NOTE: REFER TO STD. DWG. GR-9A AND CROSS SECTIONS FOR SLOPE REQUIREMENTS BEHIND GUARDRAIL.



DETAIL FOR TRANSITIONS



SECTION OF APPROACH SLAB

* SEE APPROACH SLAB DETAILS IN BRIDGE DRAWINGS

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REVISIONS

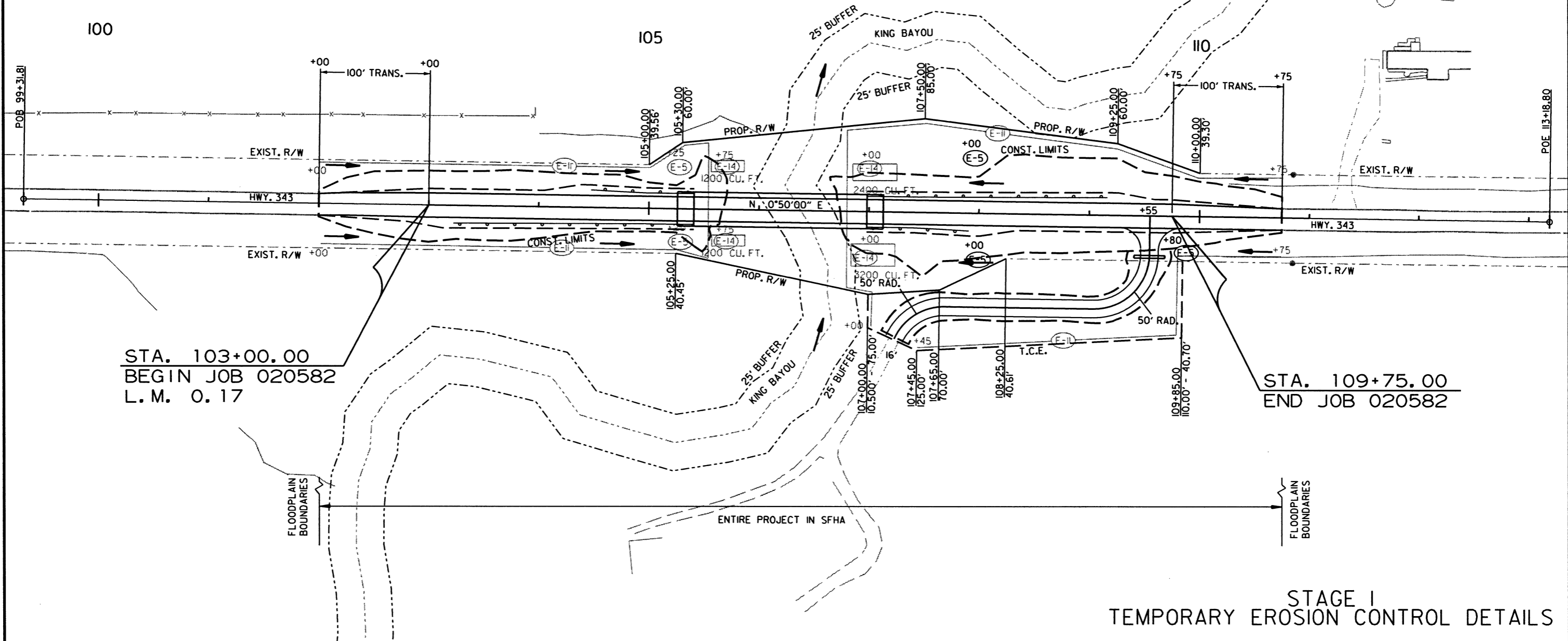
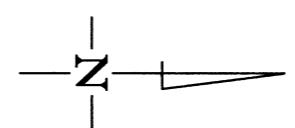
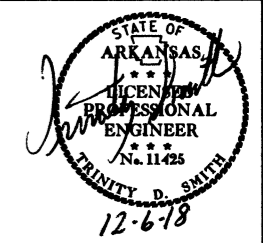
DATE OF REVISION	REVISION

LEGEND

- (E-5) SAND BAG DITCH CHECKS
- (E-11) SILT FENCE
- (E-14) SEDIMENT BASIN

STAGE I
SAND BAG DITCH CHECKS (E-5)
(3 LOCATIONS = 66 BAGS)

2 TEMPORARY EROSION CONTROL DETAILS

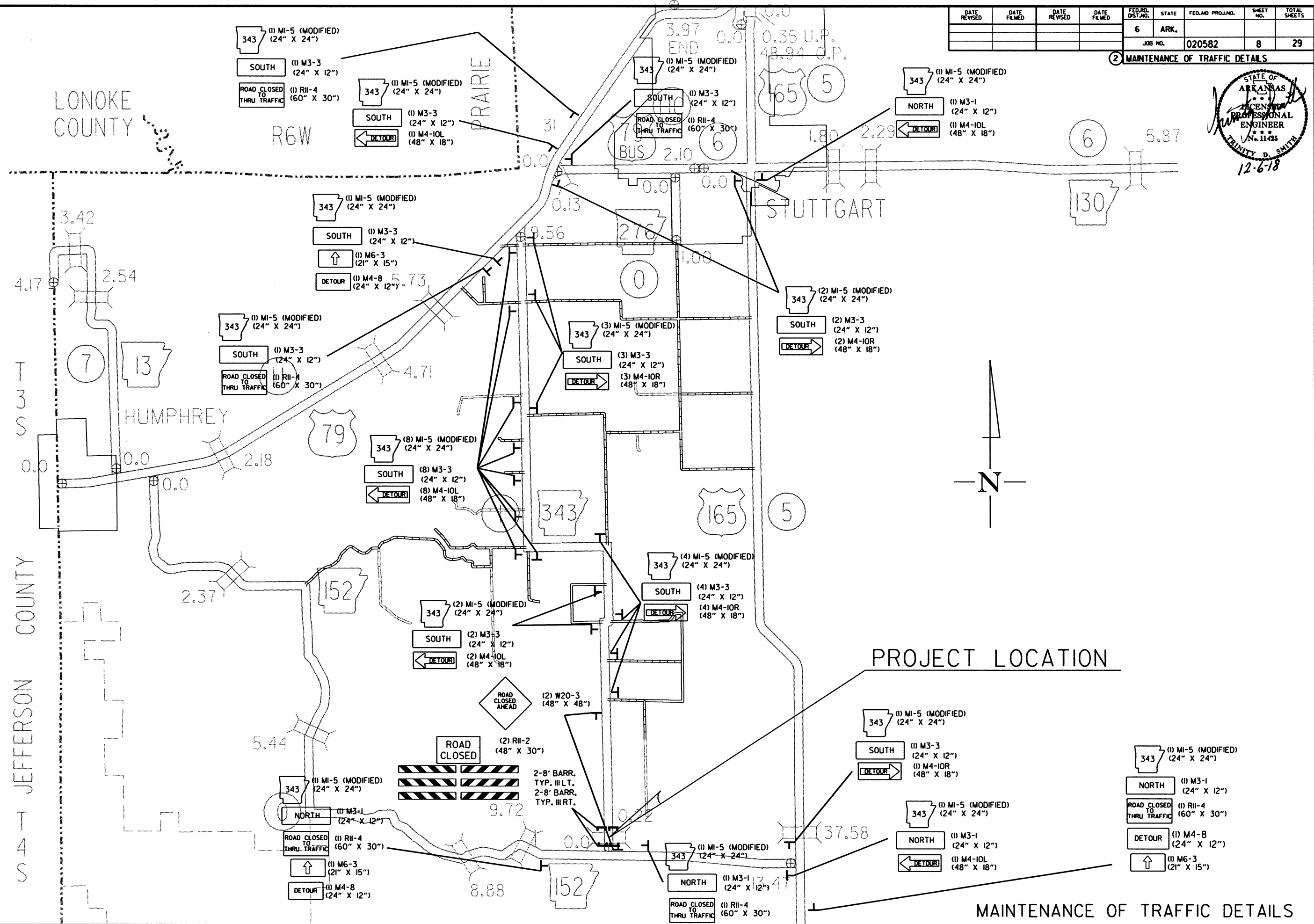
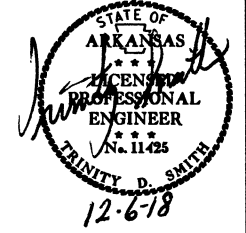


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STAGE I
TEMPORARY EROSION CONTROL DETAILS

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2 MAINTENANCE OF TRAFFIC DETAILS



PROJECT LOCATION

MAINTENANCE OF TRAFFIC DETAILS

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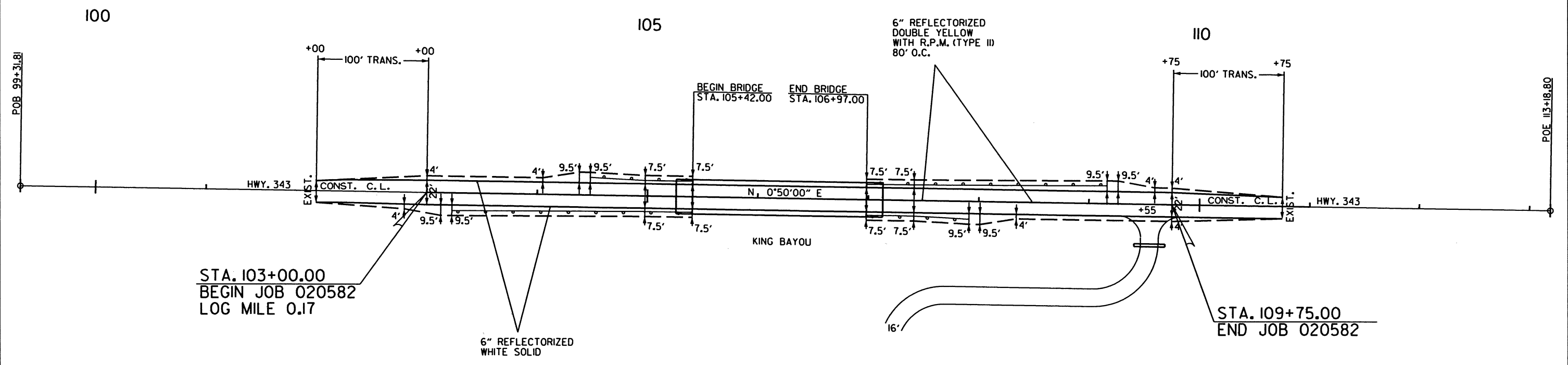
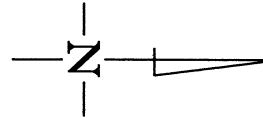
NOTE: CONTACT MAINTENANCE DIVISION TO DETERMINE NO PASSING ZONES.

QUANTITIES:

REFLECTORIZED PAINT PAVEMENT MARKING
 6" YELLOW DBL. = 1750 LIN. FT.
 6" WHITE SOLID = 1750 LIN. FT.

RAISED PAVEMENT MARKERS (TYPE II) (80' O.C.)
 YELLOW/YELLOW = 11 EACH

PERMANENT PAVEMENT MARKING DETAILS



STA. 103+00.00
 BEGIN JOB 020582
 LOG MILE 0.17

STA. 109+75.00
 END JOB 020582

6" REFLECTORIZED
 WHITE SOLID

16'

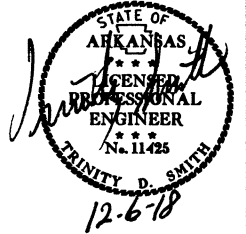
PERMANENT PAVEMENT MARKING DETAILS

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② QUANTITIES



ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	END OF JOB	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		BARRICADES (TYPE III)	
			LIN. FT. - EACH		NO.	SQ. FT.	RIGHT	LEFT
W20-3	ROAD CLOSED AHEAD	48"x48"	2	2	2	32.0		
R11-2	ROAD CLOSED	48"x30"	2	2	2	20.0		
R11-4	ROAD CLOSED TO THRU TRAFFIC	60"x30"	6	6	6	75.0		
M1-5	STATE HIGHWAY 343 (MODIFIED)	24"x24"	30	30	30	120.0		
M3-1	NORTH	24"x12"	5	5	5	10.0		
M3-3	SOUTH	24"x12"	26	26	26	52.0		
M4-8	DETOUR	24"x12"	3	3	3	6.0		
M4-10L	DETOUR WITH ARROW LEFT	48"x18"	13	13	13	78.0		
M4-10R	DETOUR WITH ARROW RIGHT	48"x18"	10	10	10	60.0		
M6-3	ARROW	21"x15"	3	3	3	6.6		
	TYPE III BARRICADE-RT. (8')		2	2			16	
	TYPE III BARRICADE-LT. (8')		2	2				16
TOTALS:						459.6	16	16

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

PERMANENT PAVEMENT MARKINGS

DESCRIPTION	END OF JOB LIN. FT. - EACH	RAISED PAVEMENT MARKERS	REFLECTORIZED PAINT PAVEMENT MARKING	
		TYPE II (YEL/YEL) EACH	6"	
			WHITE	YELLOW
RAISED PAVEMENT MARKERS TYPE II (YEL/YEL)	11	11		
REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")	1750		1750	
REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")	1750			1750
TOTALS:		11	1750	1750

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

NOTE: THE 6" YELLOW STRIPING QUANTITY HAS BEEN ESTIMATED BASED ON A DOUBLE YELLOW CENTERLINE STRIPE FOR THE ENTIRE PROJECT. THE PROJECT MUST BE MARKED FOR PASSING/NO PASSING ZONES PRIOR TO THE PLACEMENT OF ANY FINAL STRIPING. CONTACT THE MAINTENANCE DIVISION AFTER THE FINAL LIFT OF SURFACE COURSE HAS BEEN PLACED TO SCHEDULE THE ZONING OF THE PROJECT.

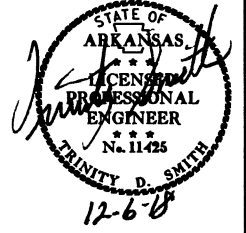
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QUANTITIES

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QUANTITIES



SOIL LOG

STATION	LATITUDE			LONGITUDE			LOCATION	DEPTH FEET	LIQUID LIMIT	PLASTICITY INDEX	AASHTO CLASSIFICATION	COLOR
	DEG	MIN	SEC	DEG	MIN	SEC						
103+00	34	20	54.20	91	34	47.90	6' RT.	0-5	34	20	A-6(16)	BROWN
103+00	34	20	54.20	91	34	47.80	21' RT.	0-5	37	21	A-6(16)	BROWN
103+10	34	20	54.30	91	34	47.90	21' RT.	0-5	46	28	A-7-6(27)	GRAY
113+00	34	21	6.70	91	34	47.80	6' LT.	0-5	39	24	A-6(22)	GRAY
113+00	34	21	6.70	91	34	47.90	18' LT.	0-5	56	39	A-7-6(42)	GRAY

SOIL CHARACTERISTICS TABULATED ABOVE ARE REPRESENTATIVE AT THE LOCATION 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.
Z - AUGER REFUSAL
NP - NON-PLASTIC
ND - NOT DETERMINABLE

BENCH MARKS

STATION	LOCATION	BENCH MARKS
		EACH
105+42	LT. BRIDGE END	1
TOTAL:		1

NOTE: SHOWN FOR INFORMATION ONLY. BENCH MARKS SHALL BE FURNISHED AND PLACED BY STATE FORCES.

CLEARING AND GRUBBING

STATION	STATION	LOCATION	CLEARING	GRUBBING
			STATION	STATION
102+00	110+75	HWY. 343	9	9
TOTALS:			9	9

REMOVAL AND DISPOSAL OF CULVERTS

STATION	DESCRIPTION	PIPE CULVERTS
		EACH
107+47	35" X 24" X 25' ARCH C.M. PIPE CULVERT ON RT.	1
TOTAL:		1

NOTE: QUANTITY SHOWN ABOVE SHALL INCLUDE REMOVAL & DISPOSAL OF ALL HEADWALLS AND FLARED END SECTIONS IF APPLICABLE.

COLD MILLING ASPHALT PAVEMENT

STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
102+00.00	103+00.00	MAIN LANES	20.00	222.22
109+75.00	110+75.00	MAIN LANES	20.00	222.22
TOTAL:				444.44

NOTE: AVERAGE MILLING DEPTH 1".

REMOVAL AND DISPOSAL OF FENCE

STATION	STATION	LOCATION	FENCE
			LIN. FT.
106+99	107+31	HWY. 343	32
107+57	107+71	HWY. 343	14
TOTAL:			46

GUARDRAIL

STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	THREE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
			LIN. FT.	EACH	EACH
104+48.85	105+42.60	LT. SIDE	25	1	1
103+23.85	105+42.60	RT. SIDE	150	1	1
106+96.40	109+15.15	LT. SIDE	150	1	1
106+96.40	107+90.15	RT. SIDE	25	1	1
TOTALS:			350	4	4

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT	* SOIL STABILIZATION
			CU. YD.	CU. YD.	TON
ENTIRE PROJECT		STAGE 1-MAIN LANES	353	684	
ENTIRE PROJECT		APPROACHES		85	
ENTIRE PROJECT		BRIDGE EXCAVATION	240		
ENTIRE PROJECT		TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			100
TOTALS:			593	769	100

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

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

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING
	CU. YD.
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	10
TOTAL:	
	10

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

4" PIPE UNDERDRAIN

STATION	STATION	LOCATIONS	4" PIPE UNDERDRAINS	UNDERDRAIN OUTLET PROTECTORS
			LIN. FT.	EACH
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER			500	5
TOTALS:			500	5

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

ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC

LOCATION	TON	TACK COAT
		GALLON
ENTIRE PROJECT - TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	3	6
TOTALS:		6

BASIS OF ESTIMATE:
ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC...25 TON/MILE
TACK COAT FOR MAINTENANCE OF TRAFFIC.....50 GAL./MILE
QUANTITIES ESTIMATED
SEE SECTION 104.03 OF THE STD. SPECS.

ACHM PATCHING OF EXISTING ROADWAY

DESCRIPTION	TON
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.

EROSION CONTROL MATTING

STATION	STATION	LOCATION	LENGTH	CLASS 3
			LIN. FT.	SQ. YD.
106+98.00	107+75.00	HWY. 343 RT. DITCH	77.00	68.44
TOTAL:				68.44

NOTE: AVERAGE WIDTH = 8'-0"

DUMPED RIPRAP AND FILTER BLANKET

STATION	STATION	LOCATION	DUMPED RIPRAP	FILTER BLANKET
			CU. YD.	SQ. YD.
106+70	108+41	LT. 2:1 SLOPE	152	304
106+70	107+66	RT. 2:1 SLOPE	107	213
ENTIRE PROJECT		TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	41	83
TOTALS:			300	600

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

NOTE: FILTER BLANKET SHALL BE GEOTEXTILE FABRIC (TYPE 5).

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 020582							12	29

DRIVEWAYS & TURNOUTS

STATION	SIDE	LOCATION	WIDTH FEET	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 64-22)		AGGREGATE BASE COURSE (CLASS 7) TON	SIDE DRAINS 30" LIN. FT.	STANDARD DRAWINGS
				SQ. YD.	TON			
109+55	RT.	HWY. 343	16	44.80	4.93	272.71	28	PCC-1, PCM-1, PCP-1, PCP-2
*ENTIRE PROJECT TEMPORARY DRIVES						50.00		
TOTALS:				44.80	4.93	322.71	28	

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.8% MIN. AGGR.....5.2% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

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

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.

APPROACH GUTTERS AND SLABS

STATION	STATION	LOCATION	APPROACH GUTTER (TYPE D)	APPROACH SLABS (TYPE D)	REINFORCING STEEL-RDWY. (GR. 60)	AGGREGATE BASE CRS. (CLASS 7)
			CU.YD.	CU.YD.	POUND	TON
105+26.00	105+42.00	LT. SIDE	2.48		205	
105+26.00	105+42.00	MAIN LANE		14.65	1140	12.4
105+26.00	105+42.00	RT. SIDE	2.48		205	
106+97.00	107+13.00	LT. SIDE	2.48		205	
106+97.00	107+13.00	MAIN LANE		14.65	1140	12.4
106+97.00	107+13.00	RT. SIDE	2.48		205	
TOTALS:			9.92	29.30	3100	24.8

NOTE: USE T=9" FOR 4' SHOULDER.

QUANTITIES



EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL										
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	TRIANGULAR SILT DIKE	SAND BAG DITCH CHECKS	SILT FENCE	SEDIMENT BASIN	OBLITERATION OF SEDIMENT BASIN	*SEDIMENT REMOVAL & DISPOSAL		
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	ACRE	ACRE	M.GAL.	LIN. FT.	(E-5) BAG	(E-11) LIN. FT.	(E-14) CU.YD.	CU.YD.
ENTIRE PROJECT	PROJECT	CLEARING AND GRUBBING																
ENTIRE PROJECT	PROJECT	STAGE 1	1.87	3.74	1.87	190.7	1.87		2.11	2.11	43.0		88	1875	296	296	369	
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			0.13	0.26	0.13	13.3	0.13					200	66	225	54	54	265	
TOTALS:			2.00	4.00	2.00	204.0	2.00	2.11	2.11	43.0	200	220	2100	350	350	637		

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

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.

BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH FEET	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	(0.05 GAL. PER SQ. YD.)			(0.17 GAL. PER SQ. YD.)			TOTAL GALLONS	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 64-22 TON	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 64-22 TON	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 64-22 TON
						TOTAL WID. FEET	SQ.YD.	GALLON	TOTAL WID. FEET	SQ.YD.	GALLON													
MAIN LANES																								
102+00.00	103+00.00	TRANSITION	100.00	24.50	24.50	6.44	71.56	3.58	20.00	222.22	37.78	41.36	3.29	36.56	440.00	8.04	3.15	35.00	330.00	5.78	23.00	255.56	220.00	28.11
103+00.00	105+26.00	NOTCH AND WIDEN	226.00	49.00	110.74	52.87	1327.62	66.38				66.38	6.58	165.23	440.00	36.35	26.29	660.17	VAR.	163.63	26.00	652.89	220.00	71.82
107+13.00	109+25.00	FULL DEPTH	212.00	49.00	103.88	52.87	1245.38	62.27				62.27	26.58	626.11	440.00	137.74	26.29	619.28	330.00	102.18	26.00	612.44	220.00	67.37
109+25.00	109+75.00	NOTCH AND WIDEN	50.00	49.00	24.50	32.87	182.61	9.13				9.13	6.58	36.56	440.00	8.04	6.29	34.94	330.00	5.77	26.00	144.44	220.00	15.89
109+75.00	110+75.00	TRANSITION	100.00	24.50	24.50	6.44	71.56	3.58	20.00	222.22	37.78	41.36	3.29	36.56	440.00	8.04	3.15	35.00	330.00	5.78	23.00	255.56	220.00	28.11
ADDITIONAL FOR LEVELING																								
103+00.00	105+26.00	HWY. 343	226.00						20.00	502.22	85.38	85.38									20.00	502.22	220.00	55.24
107+13.00	109+75.00	HWY. 343	262.00						20.00	582.22	98.98	98.98									20.00	582.22	220.00	64.04
WIDENING FOR GUARDRAIL																								
102+68.85	102+80.85	GUARDRAIL WIDENING ON RT.	12.00																		1.00	1.33	220.00	0.15
102+80.85	103+13.85	GUARDRAIL WIDENING ON RT.	33.00	7.25	2.39																3.75	13.75	220.00	1.51
103+13.85	103+23.85	GUARDRAIL WIDENING ON RT.	10.00	14.50	1.45																7.50	8.33	220.00	0.92
103+23.85	104+98.85	GUARDRAIL WIDENING ON RT.	175.00	11.63	20.35																6.50	126.39	220.00	13.90
104+98.85	105+42.00	GUARDRAIL WIDENING ON RT.	43.15	8.75	3.78																5.50	26.37	220.00	2.90
103+93.85	104+05.85	GUARDRAIL WIDENING ON LT.	12.00																		1.00	1.33	220.00	0.15
104+05.85	104+38.85	GUARDRAIL WIDENING ON LT.	33.00	7.25	2.39																3.75	13.75	220.00	1.51
104+38.85	104+48.85	GUARDRAIL WIDENING ON LT.	10.00	14.50	1.45																7.50	8.33	220.00	0.92
104+48.85	104+98.85	GUARDRAIL WIDENING ON LT.	50.00	11.63	5.82																6.50	36.11	220.00	3.97
104+98.85	105+42.00	GUARDRAIL WIDENING ON LT.	43.15	8.75	3.78																5.50	26.37	220.00	2.90
106+97.00	107+40.15	GUARDRAIL WIDENING ON RT.	43.15	8.75	3.78																5.50	26.37	220.00	2.90
107+40.15	107+90.15	GUARDRAIL WIDENING ON RT.	50.00	11.63	5.82																6.50	36.11	220.00	3.97
107+90.15	108+00.15	GUARDRAIL WIDENING ON RT.	10.00	14.50	1.45																7.50	8.33	220.00	0.92
108+00.15	108+33.15	GUARDRAIL WIDENING ON RT.	33.00	7.25	2.39																3.75	13.75	220.00	1.51
108+33.15	108+45.15	GUARDRAIL WIDENING ON RT.	12.00																		1.00	1.33	220.00	0.15
106+97.00	107+40.15	GUARDRAIL WIDENING ON LT.	43.15	8.75	3.78																5.50	26.37	220.00	2.90
107+40.15	109+15.15	GUARDRAIL WIDENING ON LT.	175.00	11.63	20.35																6.50	126.39	220.00	13.90
109+15.15	109+25.15	GUARDRAIL WIDENING ON LT.	10.00	14.50	1.45																7.50	8.33	220.00	0.92
109+25.15	109+58.15	GUARDRAIL WIDENING ON LT.	33.00	7.25	2.39																3.75	13.75	220.00	1.51
109+58.15	109+70.15	GUARDRAIL WIDENING ON LT.	12.00																		1.00	1.33	220.00	0.15
TOTALS:					370.94		2898.73	144.94		1528.88	259.92	404.86		901.02		198.21		1384.39		283.14		3529.45		388.24

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.8% MIN. AGGR.....5.2% ASPHALT BINDER
 ACHM BINDER COURSE (1").....95.8% MIN. AGGR.....4.2% ASPHALT BINDER
 ACHM BASE COURSE (1 1/2").....96.5% MIN. AGGR.....3.5% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22
 TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020582	13	29

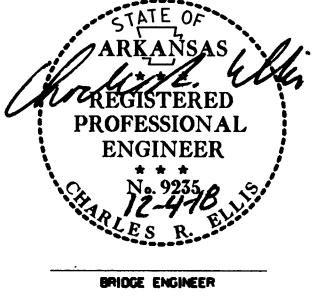
① 07422 - QUANTITIES - 60295

SCHEDULE OF BRIDGE QUANTITIES-JOB NO. 020582

BRIDGE NO.	NAME PLATE TITLE	UNIT OF STRUCTURE	ITEM NO.	205	801	SP, SS & 802	SP, SS & 802	SP, SS & 802	SP, SS & 802	SP, SS & 802	803	SS & 805	SS & 805	SS & 805	812	816	816	
			ITEM	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO.)	UNCLASSIFIED EXCAVATION FOR STRUCTURES - BRIDGE	3' PRECAST CONCRETE CURB UNITS	3' PRECAST CONCRETE INTERIOR UNITS	3' PRECAST PARAPET RAIL UNITS	PRECAST CONCRETE ABUTMENTS	PRECAST CONCRETE BENT CAPS	CLASS I PROTECTIVE SURFACE TREATMENT	STEEL SHELL PILING (18" DIAMETER)	STEEL SHELL PILING (24" DIAMETER)	PILE ENCASEMENT	① BRIDGE NAME PLATE (TYPE D)	FILTER BLANKET	DUMPED RIPRAP	
			UNIT	LUMP SUM	CU. YD.	EACH	EACH	EACH	EACH	EACH	GALLON	LIN. FT.	LIN. FT.	LIN. FT.	EACH	SQ. YD.	CU. YD.	
07422	HIGHWAY 343 OVER KING BAYOU	BENT 1			41					1		160			1	53	36	
		BENT 2								1			200	28				
		BENT 3									1			200	36			
		BENT 4									1			200	60			
		BENT 5									1			200	44			
		BENT 6			41						1		160				69	41
		5 - 31'-0" PRECAST SPANS					10	35	10			13.4						
		SITE NO. 1 (BRIDGE NO. M2922)			1													
TOTALS FOR JOB NO. 020582					82	10	35	10	2	4	13.4	320	800	168	1	122	77	

① The Bridge Name Plate shall be cast into the Precast Wing. See Dwg. No. 60298 for location.

STEVEN PEYTON
DESIGN SECTION SUPERVISOR



SCHEDULE OF BRIDGE QUANTITIES
KING BAYOU STR. & APPRS. (S)
ARKANSAS COUNTY
ROUTE 343 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: CMW DATE: 7/23/18 FILENAME: b020582.qldgn
CHECKED BY: SWP DATE: 12/5/18 SCALE: No Scale
DESIGNED BY: DATE:
BRIDGE NO. 07422 DRAWING NO. 60295

PRINT DATE: 12/5/2018

SUMMARY OF QUANTITIES

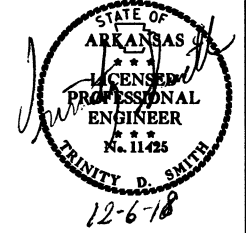
ITEM NUMBER	ITEM	QUANTITY	UNIT
201	CLEARING	9	STATION
201	GRUBBING	9	STATION
202	REMOVAL AND DISPOSAL OF FENCE	46	LIN. FT.
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS	1	EACH
210	UNCLASSIFIED EXCAVATION	593	CU. YD.
210	COMPACTED EMBANKMENT	769	CU. YD.
SP & 210	SOIL STABILIZATION	100	TON
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	718	TON
SS & 401	TACK COAT	411	GAL.
SP, SS, & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")	191	TON
SP, SS, & 405	ASPHALT BINDER (PG 64-22) IN ACHM BASE COURSE (1 1/2")	7	TON
SP, SS, & 406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")	271	TON
SP, SS, & 406	ASPHALT BINDER (PG 64-22) IN ACHM BINDER COURSE (1")	12	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	373	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	20	TON
412	COLD MILLING ASPHALT PAVEMENT	444	SQ. YD.
SP, SS, & 414	ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC	3	TON
SP, SS, & 415	ACHM PATCHING OF EXISTING ROADWAY	50	TON
504	APPROACH SLABS	29.30	CU. YD.
504	APPROACH GUTTERS	9.92	CU. YD.
601	MOBILIZATION	1.00	LUMP SUM
SP & 602	FURNISHING FIELD OFFICE	1	EACH
SP & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	460	SQ. FT.
SS & 604	BARRICADES	32	LIN. FT.
SP, SS, & 606	30" SIDE DRAIN	28	LIN. FT.
606	SELECTED PIPE BEDDING	10	CU. YD.
SS & 611	4" PIPE UNDERDRAINS	500	LIN. FT.
SS & 611	UNDERDRAIN OUTLET PROTECTORS	5	EACH
SS & 617	GUARDRAIL (TYPE A)	350	LIN. FT.
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	4	EACH
SS & 617	THREE BEAM GUARDRAIL TERMINAL	4	EACH
620	LIME	4	TON
620	SEEDING	2.00	ACRE
SS & 620	MULCH COVER	4.11	ACRE
620	WATER	247.0	M. GAL.
621	TEMPORARY SEEDING	2.11	ACRE
621	SILT FENCE	2100	LIN. FT.
621	SAND BAG DITCH CHECKS	220	BAG
621	SEDIMENT BASIN	350	CU. YD.
621	OBLITERATION OF SEDIMENT BASIN	350	CU. YD.
621	SEDIMENT REMOVAL AND DISPOSAL	637	CU. YD.
621	TRIANGULAR SILT DIKE	200	LIN. FT.
623	SECOND SEEDING APPLICATION	2.00	ACRE
626	EROSION CONTROL MATTING (CLASS 3)	68	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (6")	1750	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (6")	1750	LIN. FT.
721	RAISED PAVEMENT MARKERS (TYPE II)	11	EACH
804	REINFORCING STEEL-ROADWAY (GRADE 60)	3100	POUND
816	FILTER BLANKET	600	SQ. YD.
816	DUMPED RIPRAP	300	CU. YD.
STRUCTURES OVER 20' SPAN			
205	REMOVAL OF EXISTING BRIDGE STRUCTURE (SITE NO. 1)	1.00	LUMP SUM
636	BRIDGE CONSTRUCTION CONTROL	1.00	LUMP SUM
801	UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGE	82	CU. YD.
SP, SS & 802	31' PRECAST CONCRETE CURB UNITS	10	EACH
SP, SS & 802	31' PRECAST CONCRETE INTERIOR UNITS	35.00	EACH
SP, SS & 802	31' PRECAST PARAPET RAIL UNITS	10	EACH
SP, SS & 802	PRECAST CONCRETE ABUTMENTS	2	EACH
SP, SS & 802	PRECAST CONCRETE BENT CAPS	4	EACH
803	CLASS 1 PROTECTIVE SURFACE TREATMENT	13.4	GAL.
SS & 805	STEEL SHELL PILING (18" DIAMETER)	320	LIN. FT.
SS & 805	STEEL SHELL PILING (24" DIAMETER)	800	LIN. FT.
SS & 805	PILE ENCASEMENT	168	LIN. FT.
812	BRIDGE NAME PLATE (TYPE D)	1	EACH
816	FILTER BLANKET	122	SQ. YD.
816	DUMPED RIPRAP	77	CU. YD.

REVISIONS

DATE	REVISION	SHEET NUMBER

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						020582	14	29

② SUMMARY OF QUANTITIES AND REVISIONS

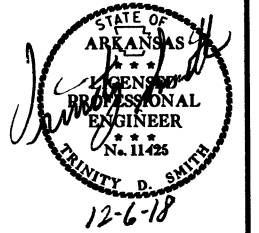


9/12/2018

R020582.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. PROJ. DIST. NO.	STATE	FED. PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	020582		15	29

② SURVEY CONTROL DETAILS



SURVEY CONTROL COORDINATES

Project Name: s020582
 Date: 11/9/2016
 Coordinate System: ARKANSAS STATE PLANE - SOUTH ZONE BASED ON GPS CONTROL,
 PROJECTED TO GROUND.
 Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
1	1924559.8535	1439219.8952	189.364	CTL	AHTD STD. MON. STAMPED PN: 1
2	1925163.0742	1439237.8019	190.595	CTL	AHTD STD. MON. STAMPED PN: 2
3	1926294.7062	1439243.3488	189.386	CTL	AHTD STD. MON. STAMPED PN: 3
4	1926858.8995	1439251.4113	190.094	CTL	AHTD STD. MON. STAMPED PN: 4
100	1923980.4591	1439191.2780	194.634	GPS	AHTD GPS #010014
101	1925667.0357	1439240.5445	188.636	GPS	AHTD GPS #010014A

*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).
 USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT
 A PROJECT CAF OF 0.999928665717 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 s020582gi.ct1
 HORIZONTAL DATUM: NAD 83 (2011)
 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

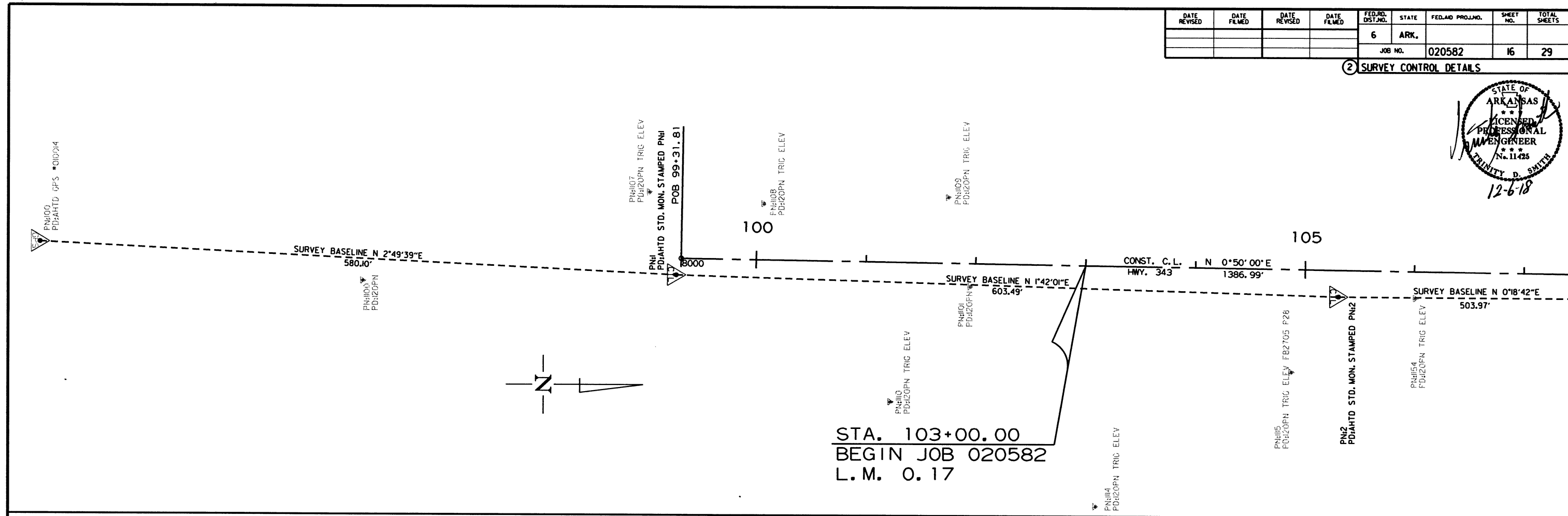
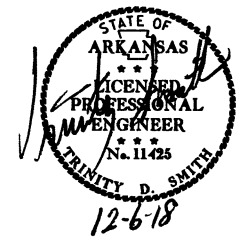
BASIS OF BEARING:
 ARKANSAS STATE PLANE GRID BEARINGS - 0302-SOUTH ZONE
 DETERMINED FROM GPS CONTROL POINTS: 010014 - 010014A
 CONVERGENCE ANGLE: 00 14 06.50 LEFT AT LT: 34-21-03 LG: 091-34-47
 GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

HWY. 343

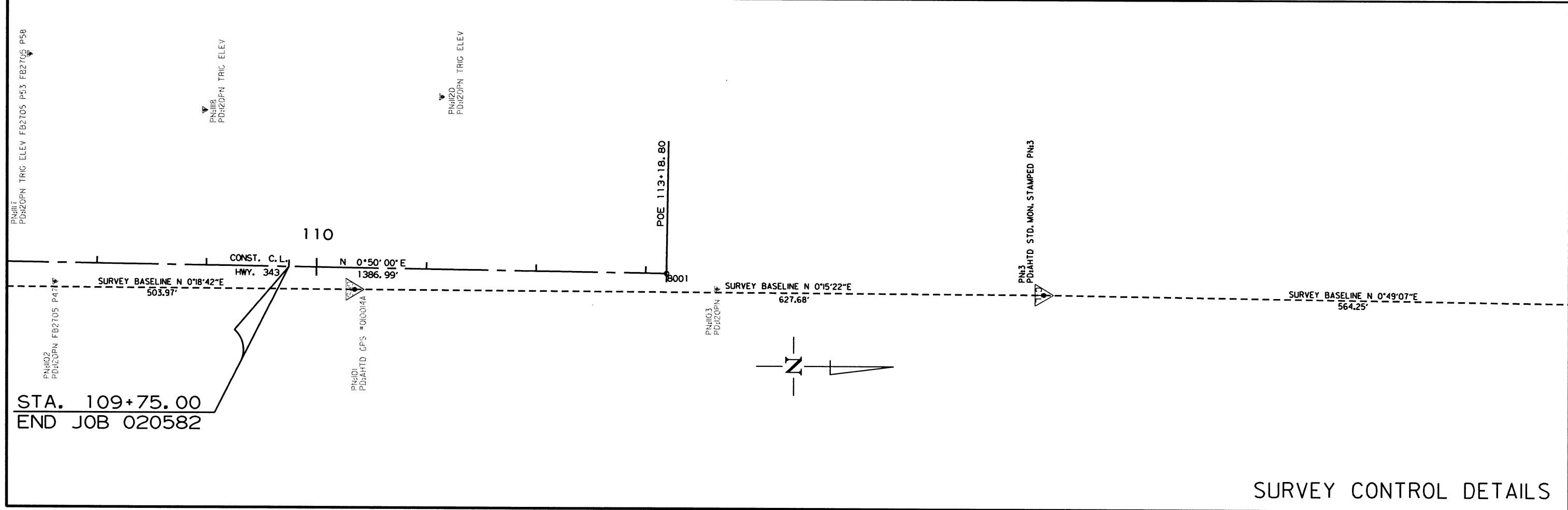
POINT NO.	TYPE	STATION	NORTHING	EASTING
8000	POB	99+31.81	1924564.4083	1439204.8247
8001	POE	113+18.80	1925951.2562	1439224.9970

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. 020582							16	29

2 SURVEY CONTROL DETAILS



STA. 103+00.00
BEGIN JOB 020582
L.M. 0.17



STA. 109+75.00
END JOB 020582

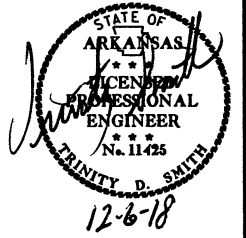
SURVEY CONTROL DETAILS

9/5/2018

R020582.DGN

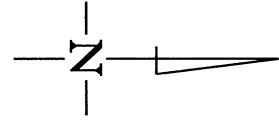
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	020582	17 29

② SURVEY CONTROL DETAILS



SURVEY BASELINE
 N 0°49'07"E
 564.25'

PN#4
 PDI#HTD STD. MON. STAMPED PN#4



PN#153
 PDI#E15
 PN#148
 PDI#20PN

PN#153
 PDI#20PN

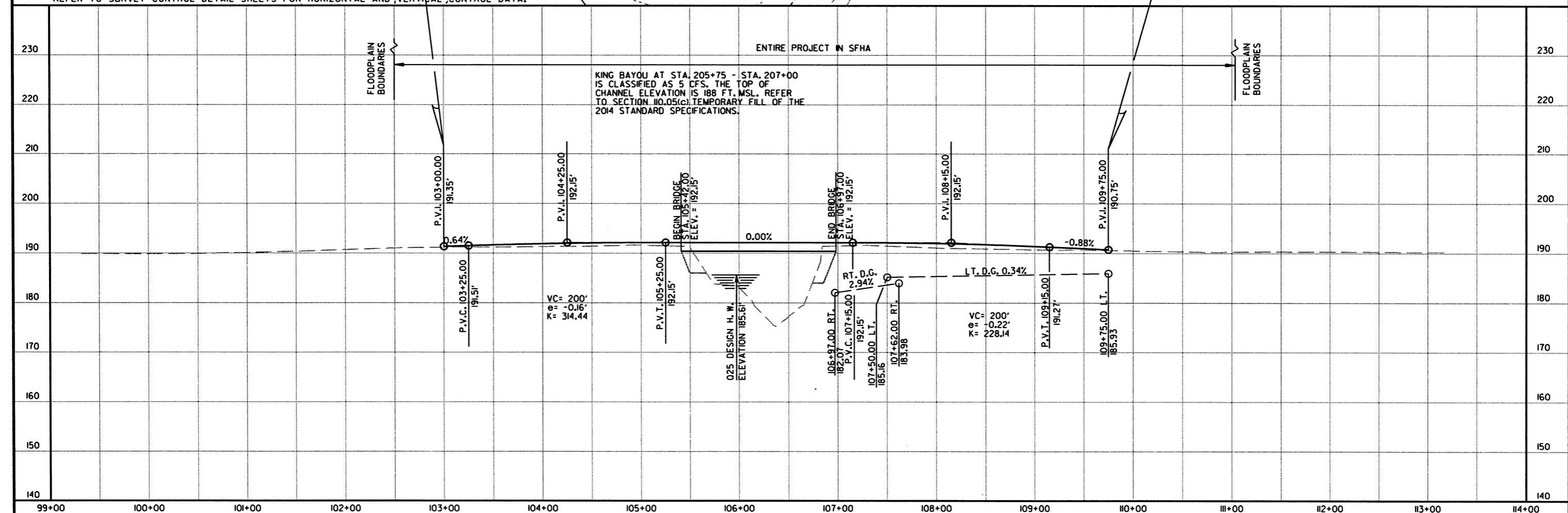
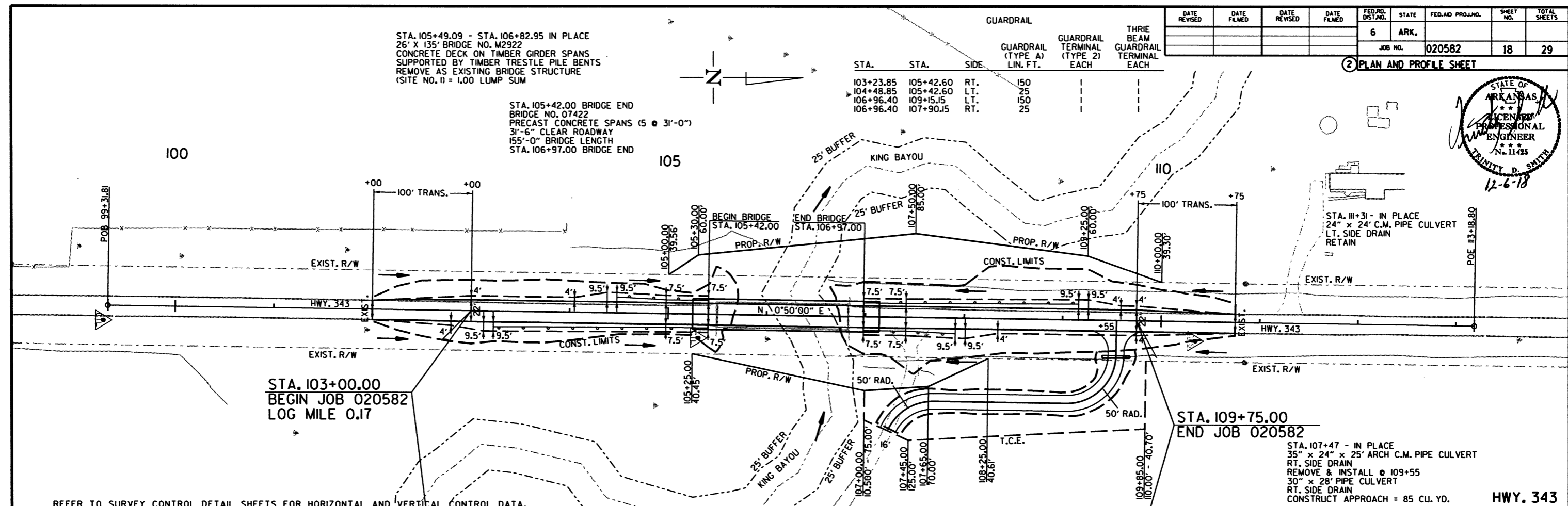
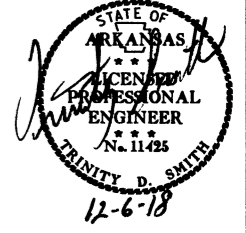
STA. 105+49.09 - STA. 106+82.95 IN PLACE
 26' X 135' BRIDGE NO. M2922
 CONCRETE DECK ON TIMBER GIRDER SPANS
 SUPPORTED BY TIMBER TRESTLE PILE BENTS
 REMOVE AS EXISTING BRIDGE STRUCTURE
 (SITE NO. 1) = 1.00 LUMP SUM

STA. 105+42.00 BRIDGE END
 BRIDGE NO. 07422
 PRECAST CONCRETE SPANS (5 @ 31'-0")
 31'-6" CLEAR ROADWAY
 155'-0" BRIDGE LENGTH
 STA. 106+97.00 BRIDGE END

STA.	STA.	SIDE	GUARDRAIL (TYPE 1) LIN. FT.	GUARDRAIL TERMINAL (TYPE 2) EACH	THREE BEAM GUARDRAIL TERMINAL EACH
103+23.85	105+42.60	RT.	150		
104+48.85	105+42.60	LT.	25		
106+96.40	109+15.15	LT.	150		
106+96.40	107+90.15	RT.	25		

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		18	29

2 PLAN AND PROFILE SHEET

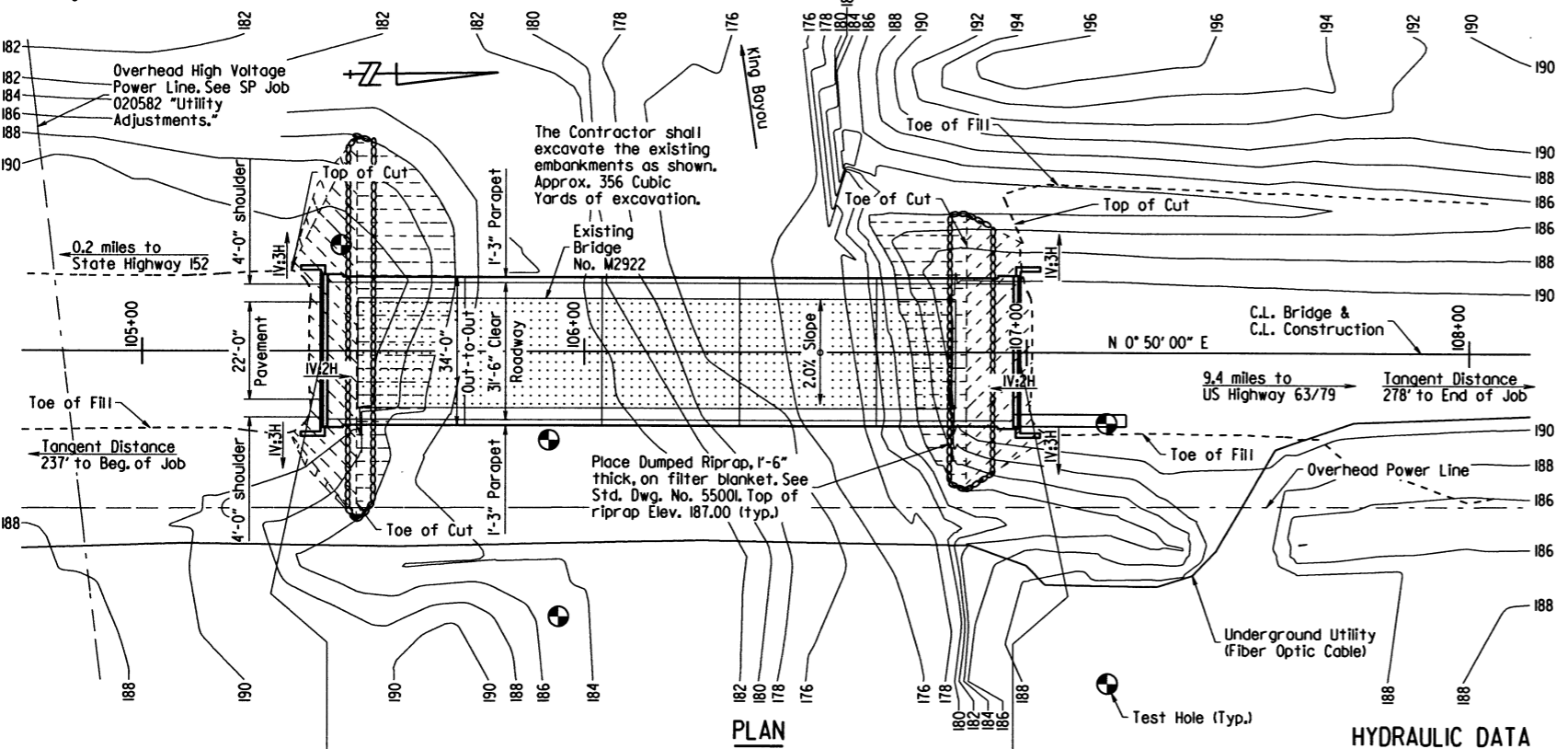


R020582.DGN 12/13/2016

For R/W Data, See Roadway Plans.

Use Type D Approach Gutters (w-4'-9") and Type D Approach Slab at both ends of bridge. For details, see Std. Dwg. Nos. 550300 and 550400.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		020582	19	29
				07422 - LAYOUT - 60296				



PLAN

HYDRAULIC DATA

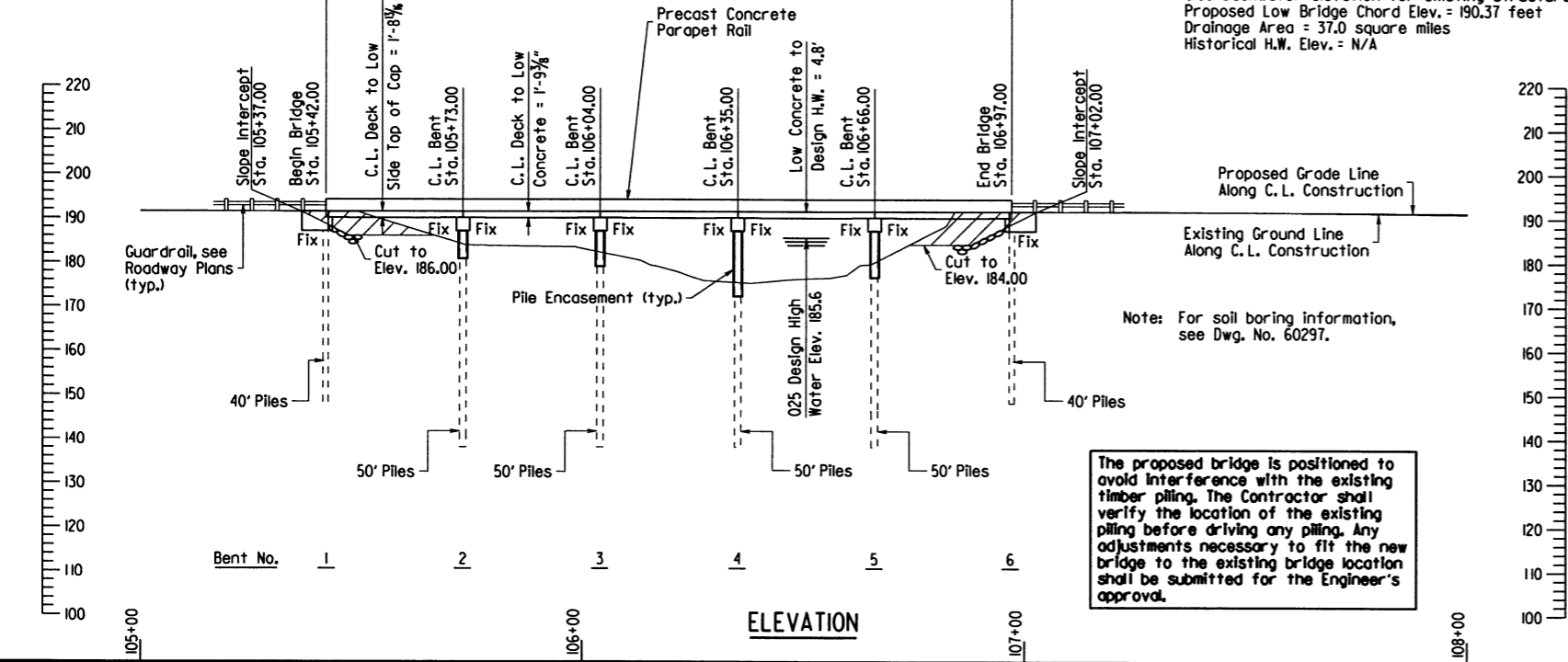
FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEVATION WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	25	2120	185.59	185.61
Base	100	2610	185.97	186.11
Extreme	500	3120	186.47	186.56
Overtopping	>500	-	-	-

① Unconstricted water surface elevation without structure or roadway approaches.
 0100 backwater elevation for existing structure = 186.02 feet
 Proposed Low Bridge Chord Elev. = 190.37 feet
 Drainage Area = 37.0 square miles
 Historical H.W. Elev. = N/A

Note: Stations are shown along C.L. Bridge & C.L. Construction.

Bridge in Level Grade C.L. Deck Elev. 192.15

Total Length of Bridge = 155'-0"
 Precast Concrete Spans (5 @ 31'-0")



ELEVATION

The proposed bridge is positioned to avoid interference with the existing timber piling. The Contractor shall verify the location of the existing piling before driving any piling. Any adjustments necessary to fit the new bridge to the existing bridge location shall be submitted for the Engineer's approval.

GENERAL NOTES:

BENCHMARK: 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. Section and Subsection refer to the Standard Construction Specifications unless otherwise noted in the Plans.

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Seventh Edition (2014), with 2015 Interims.

LIVE LOADING: HL-93

SEISMIC ZONE: 2 (SDI = 0.24)

SITE CLASS: D

MATERIALS AND STRENGTHS:
 Class (SAE) Concrete (superstructure) f'c = 4,000 psi
 Class S Concrete (substructure) f'c = 3,500 psi
 Reinforcing Steel (Grade 60, AASHTO M 31 or M 322, Type A) fy = 60,000 psi

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

STEEL SHELL PILING: Piling at Bents 1 and 6 shall be 18" diameter concrete filled steel shell piles and shall be driven to a minimum ultimate bearing capacity of 155 tons per pile. Piling in Bents 2 through 5 shall be 24" diameter concrete filled steel shell piles and shall be driven to a minimum ultimate bearing capacity of 220 tons per pile. All piling shall be driven with an approved air, steam, or diesel hammer to a minimum tip elevation of 154.0 or lower. Piling at end bents shall be driven after embankment to bottom of cap is in place. Lengths of piling shown are assumed for estimating quantities only. Actual lengths are to be determined in the field. Test piles are not required, but may be driven for the Contractor's information in accordance with Subsection 805.08(g). No additional payment will be made for cut-off or build-up. Top of piling may be no more than 2" from plan location, both transverse and longitudinal to bent centerline, after driving.

Water jetting or other methods approved by the Engineer may be needed to achieve minimum pile penetration. Any cost associated with achieving the minimum pile penetration shall be incidental to "Steel Shell Piling."

PILE ENCASEMENT: Pile encasement for Bents 2 thru 5 shall extend from bottom of cap to 3 feet below natural ground. See Standard Drawing Number 55021 for additional details.

DRIVING SYSTEM: The driving system approval and the ultimate bearing capacity determination for piling shall be based on the requirements of Subsection 805.09(b), "Method B - Wave Equation Analysis (WEAP)." It is estimated that the minimum rated hammer energy required to obtain the ultimate bearing capacity at Bents 1 and 6 will be 40,000 foot pounds per blow, and the estimated hammer energy required to obtain the ultimate bearing capacity at Bents 2 through 5 will be 60,000 foot pounds per blow.

ACCELERATED BRIDGE CONSTRUCTION: The use of precast abutments and bent caps will be required at each bent. See Detail Drawings for additional information.

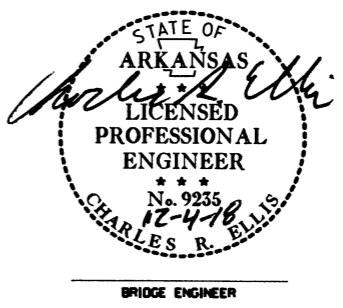
PROTECTIVE SURFACE TREATMENT: Class I Protective Surface Treatment shall be applied to the roadway surface, roadway face, and top of the concrete parapet rails.

- | | |
|------------------------------------|---------------|
| DETAIL DRAWINGS | DRAWING NOS. |
| Precast Abutments | 60298 |
| Precast Bent Caps | 60299 |
| 3' Precast Concrete Spans | 60300 - 60301 |
| Concrete Filled Steel Shell Piling | 55021 |
| Type D Approach Gutters | 550300 |
| Type D Approach Slabs | 550400 |

EXISTING BRIDGE: Existing Bridge No. M2922 (Log Mile 0.25) is 26' wide and 135' long and consists of a concrete deck on timber girder spans supported by timber trestle pile bents. The existing bridge is located at approximately the same location as the proposed bridge.

REMOVAL AND SALVAGE: The Contractor shall remove Existing Bridge No. M2922 in accordance with Section 205. Remnant timber piling from previous structures shall also be removed to a depth of 2' below finished ground. This work shall be considered subsidiary to the Item "Removal of Existing Bridge Structure (Site No. 1)". All material from the existing bridge and other structural remnants shall become the property of the Contractor.

MAINTENANCE OF TRAFFIC: The road will be closed during the construction of this project in accordance with Special Provision Job No. 020582 "Maintenance of Traffic."



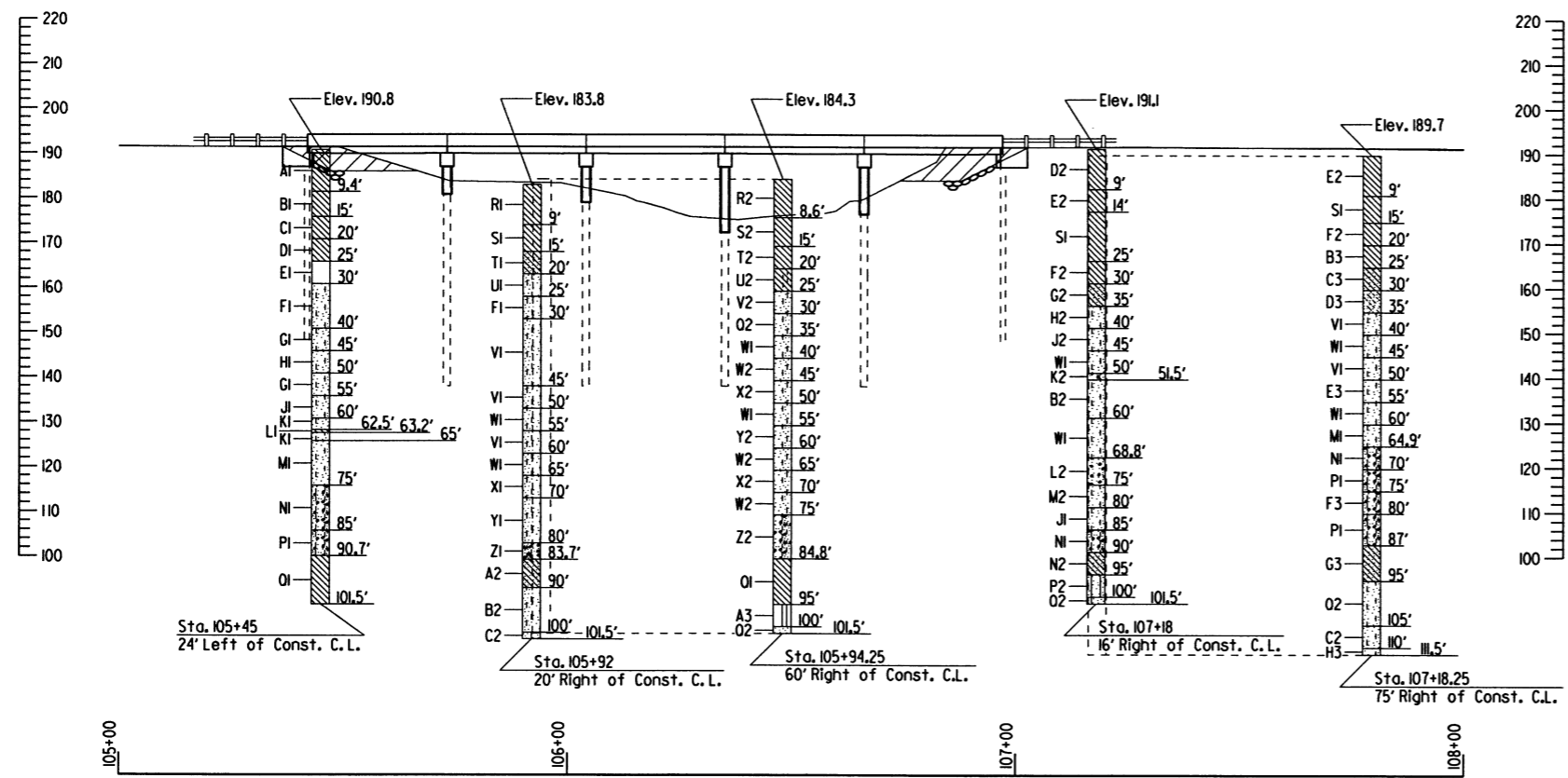
SHEET 1 OF 2
 LAYOUT OF BRIDGE OVER KING BAYOU
 KING BAYOU STR. & APPRS. (S)
 ARKANSAS COUNTY

ROUTE 343 SEC. 1
 ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.
 DRAWN BY: TMG DATE: 10/6/2017 FILENAME: b020582.dwg
 CHECKED BY: CMW DATE: 12/4/19 SCALE: 1" = 20'
 DESIGNED BY: TMG DATE: 10/20/17
 BRIDGE NO. 07422 DRAWING NO. 60296

PRINT DATE: 12/4/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	020582	20	29	
				07422	LAYOUT	60297		



BORING ELEVATION

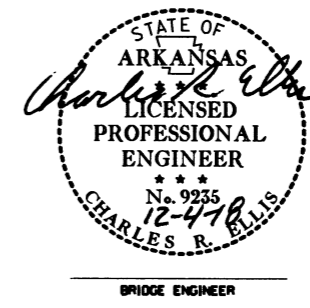
BORING LEGEND

- AI-Moist, Medium Stiff, Reddish Brown Clay
- BI-Wet, Soft, Brown Clay
- CI-Wet, Very Stiff, Brown Clay
- DI-Wet, Stiff, Brown Clay
- EI-Wet, Medium Stiff, Gray Sandy, Silty Clay
- FI-Wet, Medium Dense, Brown Silty Sand
- GI-Wet, Dense, Brown Sand with Silt
- HI-Wet, Very Dense, Brown Sand with Silt
- JI-Wet, Dense, Brown Sand with Silt and Trace Gravel
- KI-Wet, Loose, Brown Sand with Silt
- LI-Clay
- MI-Wet, Very Dense, Brown Sand with Silt and Trace Gravel
- NI-Wet, Very Dense, Brown Sand with Silt and Gravel
- PI-Wet, Dense, Brown Sand with Silt and Gravel
- OI-Moist, Hard, Gray Clay
- RI-Moist, Medium Stiff, Light Gray Clay
- SI-Moist, Stiff, Brown Clay
- TI-Moist, Stiff, Brown Sandy Clay
- UI-Wet, Medium Dense, Brown Silty Sand with Trace Gravel
- VI-Wet, Medium Dense, Gray Sand with Silt
- WI-Wet, Dense, Gray Sand with Silt
- XI-Wet, Medium Dense, Gray Silty Sand with Some Gravel
- YI-Wet, Medium Dense, Gray Sand with Silt and Some Gravel
- ZI-Wet, Medium Dense, Gray Sand with Silt, Gravel and Organic Matter (Wood)
- A2-Wet, Hard, Gray Sandy Clay
- B2-Wet, Medium Dense, Gray Silty Sand
- C2-Wet, Dense, Gray Silty Sand with Trace Lignite
- D2-Dry, Stiff, Brown Clay with Some Gravel
- E2-Moist, Very Stiff, Brown Clay
- F2-Moist, Medium Stiff, Brown Clay
- G2-Wet, Medium Stiff, Light Gray Sandy Clay
- H2-Wet, Medium Dense, Light Gray Silty Sand
- J2-Wet, Dense, Light Gray Silty Sand and Trace Gravel
- K2-Wet, Medium Dense, Gray Sand with Silt and Organic Matter (Wood)
- L2-Wet, Dense, Brown Gravel with Sand
- M2-Wet, Dense, Brown Silty Sand
- N2-Moist, Hard, Dark Gray Clay with Sand
- P2-Wet, Medium Dense, Gray Sandy Silt
- O2-Wet, Dense, Gray Silty Sand
- R2-Moist, Soft, Light Gray Clay
- S2-Moist, Very Stiff, Light Gray Clay
- T2-Wet, Medium Stiff, Brown Clay
- U2-Wet, Medium Stiff, Brown Silty Clay
- V2-Wet, Loose, Reddish Brown Silty Sand
- W2-Wet, Dense, Gray Sand with Silt and Trace Gravel
- X2-Wet, Medium Dense, Gray Sand with Silt and Trace Gravel
- Y2-Wet, Very Dense, Gray Sand with Silt
- Z2-Wet, Dense, Brown, Sand with Silt and Gravel
- A3-Moist, Medium Dense, Gray Silt
- B3-Moist, Stiff, Gray Clay
- C3-Moist, Stiff, Light Gray Sandy Clay
- D3-Wet, Loose, Light Gray Clayey Sand
- E3-Wet, Loose, Gray Silty Sand
- F3-Wet, Medium Dense, Brown Sand with Silt and Gravel
- G3-Wet, Hard, Dark Gray Sandy Clay
- H3-Wet, Dense, Gray Silty Sand with Some Lignite

"N" VALUES

Sta. 105+45 - 24' Left of Const. C.L.	Sta. 105+92 - 20' Right of Const. C.L.	Sta. 105+94.25 - 60' Right of Const. C.L.	Sta. 107+18 - 16' Right of Const. C.L.	Sta. 107+18.25 - 75' Right of Const. C.L.
4.9- 5.9,N=8	4.5- 5.5,N=6	4.1- 5.1,N=3	4.5- 5.5,N=14	4.5- 5.5,N=20
9.9- 10.9,N=3	9.5- 10.5,N=10	9.1- 10.1,N=17	9.5- 10.5,N=21	9.5- 10.5,N=15
15.5- 16.5,N=16	15.5- 16.5,N=14	15.5- 16.5,N=8	14.5- 15.5,N=11	15.5- 16.5,N=7
20.5- 21.5,N=11	20.5- 21.5,N=14	20.5- 21.5,N=6	20.5- 21.5,N=12	20.5- 21.5,N=9
25.5- 26.5,N=8	25.5- 26.5,N=11	25.5- 26.5,N=6	25.5- 26.5,N=8	25.5- 26.5,N=9
30.5- 31.5,N=15	30.5- 31.5,N=20	30.5- 31.5,N=32	30.5- 31.5,N=7	30.5- 31.5,N=8
35.5- 36.5,N=22	35.5- 36.5,N=36	35.5- 36.5,N=33	35.5- 36.5,N=15	35.5- 36.5,N=19
40.5- 41.5,N=34	40.5- 41.5,N=46	40.5- 41.5,N=47	40.5- 41.5,N=33	40.5- 41.5,N=33
45.5- 46.5,N=52	45.5- 46.5,N=23	45.5- 46.5,N=29	45.5- 46.5,N=33	45.5- 46.5,N=17
50.5- 51.5,N=34	50.5- 51.5,N=38	50.5- 51.5,N=35	50.5- 51.5,N=11	50.5- 51.5,N=5
55.5- 56.5,N=38	55.5- 56.5,N=25	55.5- 56.5,N=58	55.5- 56.5,N=27	55.5- 56.5,N=44
60.5- 61.5,N=7	60.5- 61.5,N=40	60.5- 61.5,N=49	60.5- 61.5,N=43	60.5- 61.5,N=55
65.5- 66.5,N=59	65.5- 66.5,N=27	65.5- 66.5,N=29	65.5- 66.5,N=35	65.5- 66.5,N=55
70.5- 71.5,N=58	70.5- 71.5,N=20	70.5- 71.5,N=36	70.5- 71.5,N=35	70.5- 71.5,N=42
75.5- 76.5,N=51	75.5- 76.5,N=29	75.5- 76.5,N=43	75.5- 76.5,N=32	75.5- 76.5,N=26
80.5- 81.5,N=78	80.5- 81.5,N=25	80.5- 81.5,N=43	80.5- 81.5,N=39	80.5- 81.5,N=41
85.5- 86.5,N=34	85.5- 86.5,N=31	85.5- 86.5,N=49	85.5- 86.5,N=53	85.5- 86.5,N=4
90.5- 91.5,N=41	90.5- 91.5,N=29	90.5- 91.5,N=55	90.5- 91.5,N=37	90.5- 91.5,N=46
95.5- 96.5,N=39	95.5- 96.5,N=28	95.5- 96.5,N=30	95.5- 96.5,N=30	95.5- 96.5,N=41
100.5-101.5,N=32	100.5-101.5,N=41	100.5-101.5,N=36	100.5-101.5,N=44	100.5-101.5,N=45
				105.5-106.5,N=34
				110.5-111.5,N=45

Note: Traces of lignite and organic matter were encountered in the borings and may be encountered in greater amounts at other locations within the project area.



SHEET 2 OF 2
LAYOUT OF BRIDGE OVER KING BAYOU
KING BAYOU STR. & APPRS. (S)
ARKANSAS COUNTY

ROUTE 343 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: TMG DATE: 1/22/2018 FILENAME: b020582.dwg
CHECKED BY: CMW DATE: 12/4/19 SCALE: 1" = 20'
DESIGNED BY: TMG DATE: 10/20/17
BRIDGE NO. 07422 DRAWING NO. 60297

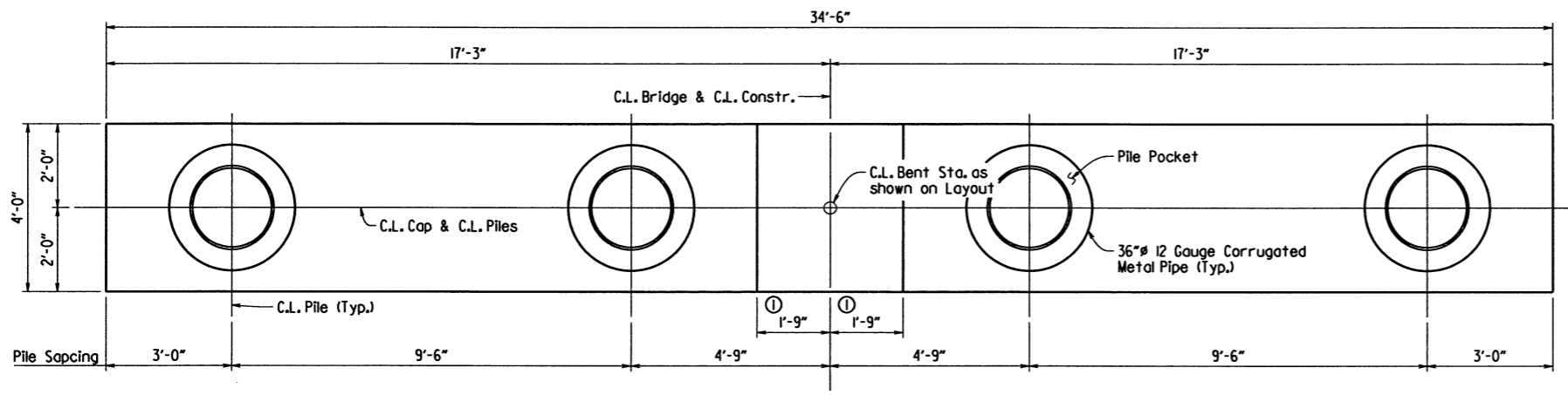
PRINT DATE: 12/4/2018

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	020582	22	29	
07422 - BENT DETAILS - 60299								

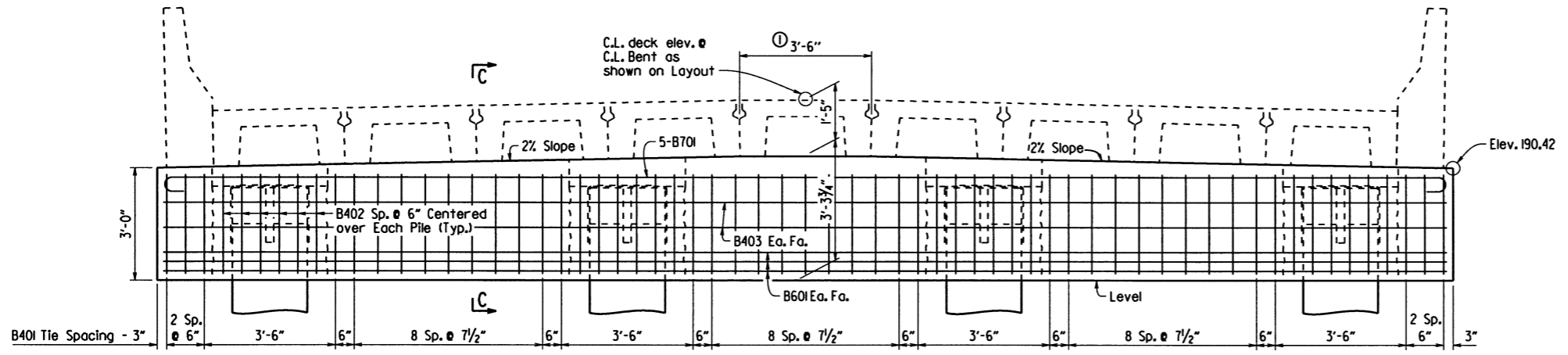
BAR LIST-PER BENT

Mark	No. Req'd.	Length	"X"	"Y"	Pin Dia.	Bending Diagram
B401	39	13'-0"			2"	
B402	24	8'-10"			2"	
B403	4	34'-2"			Str.	
B601	6	34'-2"			Str.	
B701	5	35'-10"			5/4"	
S701E	36	1'-11"			Str.	

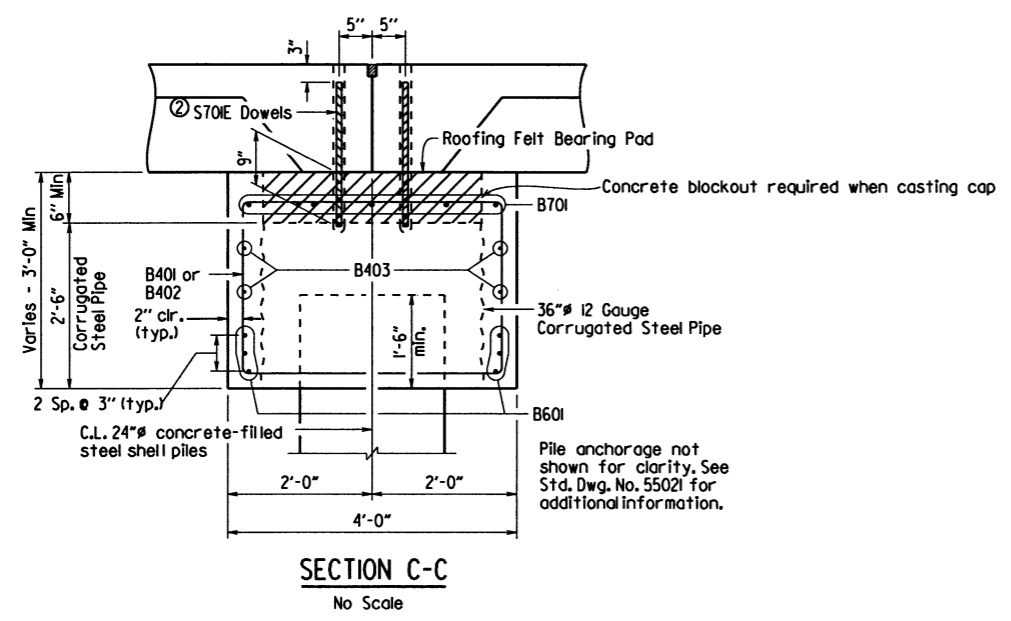
Dimensions are out to out of bars.
All bars designated with an "E" suffix are to be Epoxy Coated.



PLAN ① This portion of cap to be cast level.



ELEVATION



SECTION C-C
No Scale

② S701E Dowels may be cast in place or drilled and grouted using a QPL approved non-shrink grout or epoxy resin anchoring system prior to placing the superstructure units.

GENERAL NOTES:

DESIGN SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, Seventh Edition (2014), with 2015 Interims.

Unless otherwise noted, Section and Subsection refer to the Standard Construction Specifications.

LIVE LOADING: HL-93

MATERIALS AND STRENGTHS
Class S Concrete $f'_c = 3,500$ psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A) $f_y = 60,000$ psi

All Reinforcing steel shall be Grade 60, AASHTO M 31 or M 322, Type A with mill test reports. Reinforcing steel shall be accurately located in the forms and securely held in place by steel wire supports sufficient in size and number to prevent displacement during the course of construction and to avoid interference with dowel bars.

All steel shell piling shall be grade 45, and shall conform to Std. Dwg. No. 5502L.

Corrugated pipe for pile pockets shall be 36" Dia, 12 gauge and shall conform to AASHTO M 36 or M 218.

Concrete for precast bent caps shall be Class S except that the coarse aggregate size shall meet AASHTO M 43, Size No. 67 (3/4" Max.).

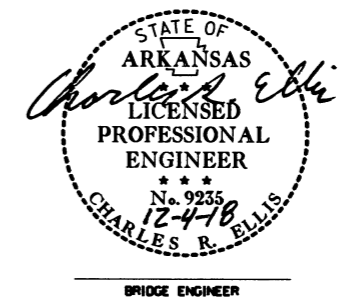
Concrete in pile pockets shall be Class S except as modified herein. The slump of concrete, at placement, shall be 7" +/- 1". The maximum water to cement ratio specified in Subsection 802.05 shall not be increased. The maximum aggregate size shall not be greater than 3/4". Approved admixtures may be used to obtain desired workability and early strength gain.

Drawings show general features of design only. Shop drawings shall be submitted and have approval secured before fabrication is begun. The Contractor's proposed lifting details shall be submitted on the shop drawings.

After steel shell piling are filled with concrete, the precast bent cap shall be lifted into place and set to plan elevation. The top of pile pockets shall be trowel finished to be flush with the top of the cap. Care shall be taken to ensure there are no voids in the pile to cap connection. Temporary supports shall not be removed, and no load shall be placed on the cap until the pile pocket concrete has reached a compressive strength of 3,500 psi.

Bent caps shall be precast. Concrete, reinforcing, and bar supports are considered subsidiary to the pay item "Precast Concrete Bent Caps". See Special Provision Job No. 020582 "Precast Substructure".

For additional information, See Layout.

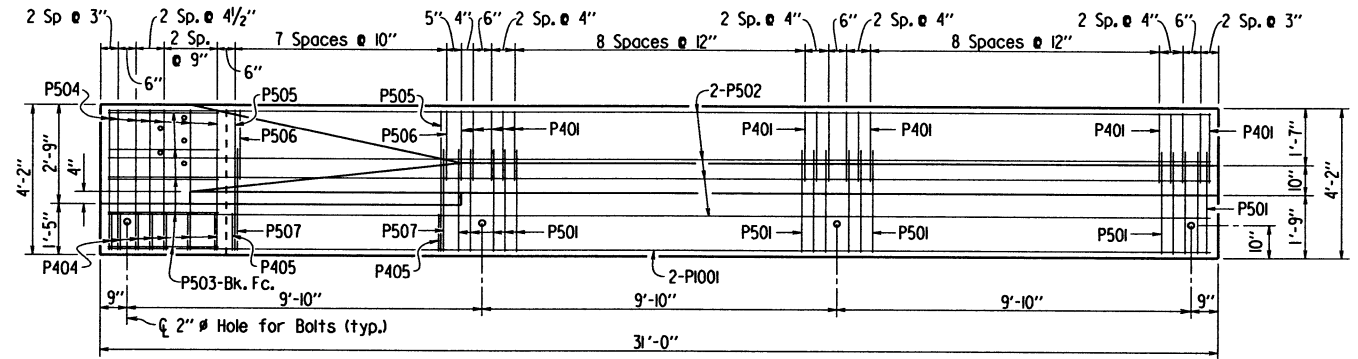


DETAILS OF PRECAST BENT CAPS
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

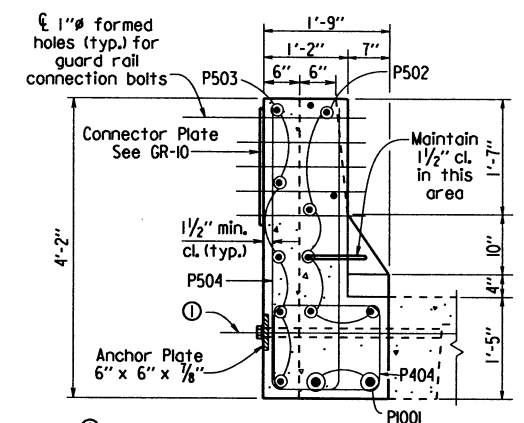
DRAWN BY: BHS DATE: 1/18/2017 FILENAME: b020582.dwg
CHECKED BY: CMW DATE: 12/4/19 SCALE: 1/2" = 1'-0" or
DESIGNED BY: BHS DATE: 1/24/17 As Shown
BRIDGE NO. 07422 DRAWING NO. 60299

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	020582	24

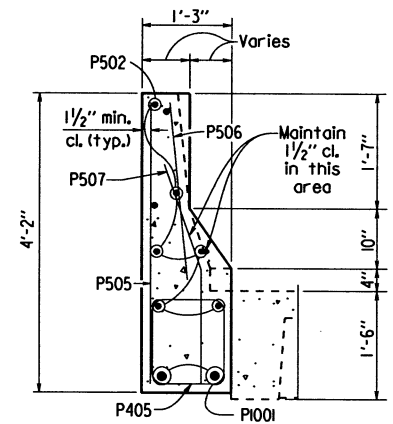
07422 - PRECAST RAIL DETAILS - 60301



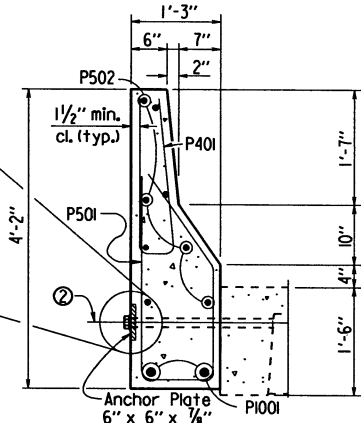
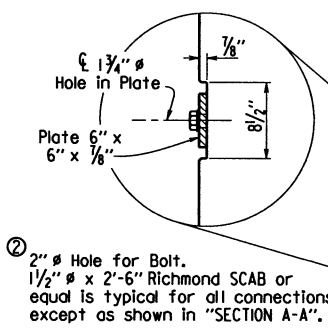
FRONT ELEVATION - PRECAST PARAPET RAIL FOR 31'-0" END SPAN
3/8" = 1'-0"



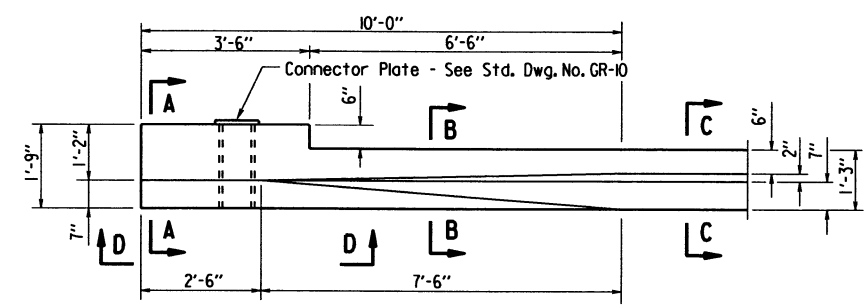
SECTION A-A
3/4" = 1'-0"



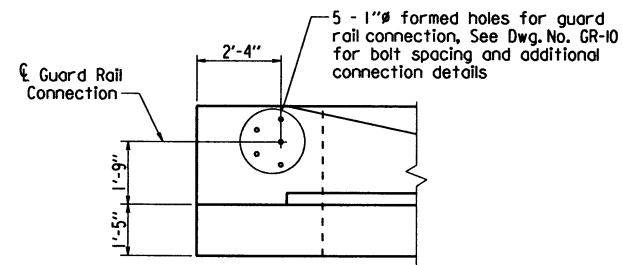
SECTION B-B
(Shown near midspan)
3/4" = 1'-0"



SECTION C-C
(Shown near midspan)
3/4" = 1'-0"



TYPICAL PLAN OF PRECAST PARAPET RAIL FOR END SPAN
1/2" = 1'-0"

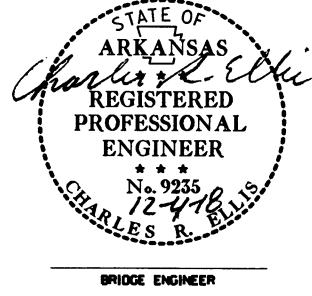


VIEW D-D
3/8" = 1'-0"

BAR LIST - PER END SPAN PARAPET RAIL

MARK	NUMBER REQUIRED			PIN DIA.	BENDING DIAGRAMS
	31'-0" RAIL	LENGTH			
P401	30	4'-8"	2"		
P404	7	5'-8"	2"		
P405	8	4'-8"	2"		
P501	30	7'-3"	2 1/2"		
P502	8	30'-8"	Str.		
P503	5	3'-3"	Str.		
P504	7	8'-6"	2 1/2"		
P505	8	3'-11"	Str.		
P506	8	2'-2"	Str.		
P507	8	2'-10"	2 1/2"		
P1001	2	30'-8"	Str.		

NOTE: This drawing is to be used with Dwg. No. 60300 which contains details and general notes pertaining to this drawing.



DETAILS FOR PRECAST PARAPET RAILS
31'-0" PRECAST END SPANS

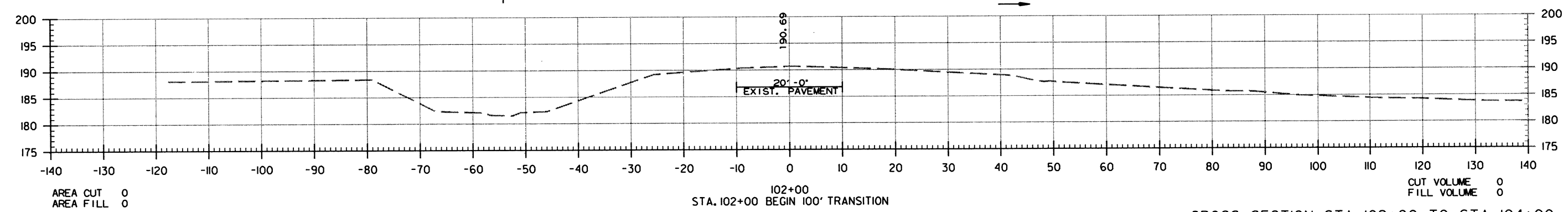
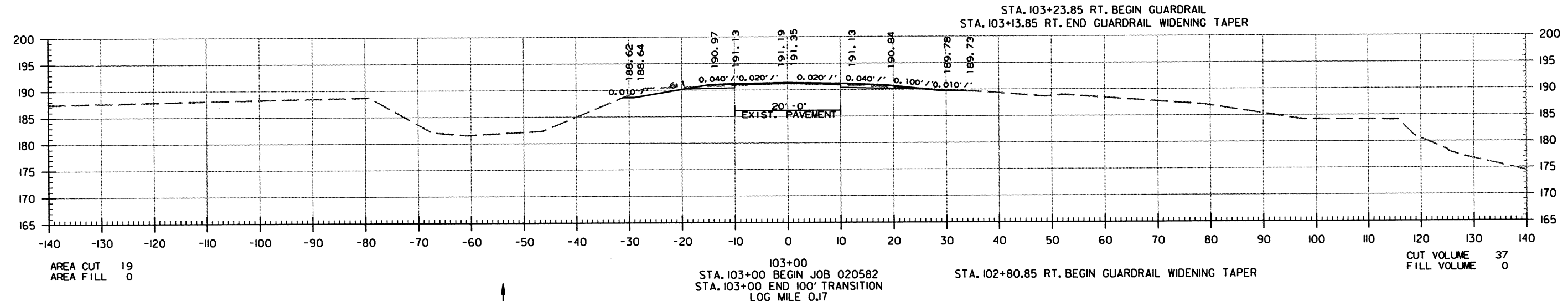
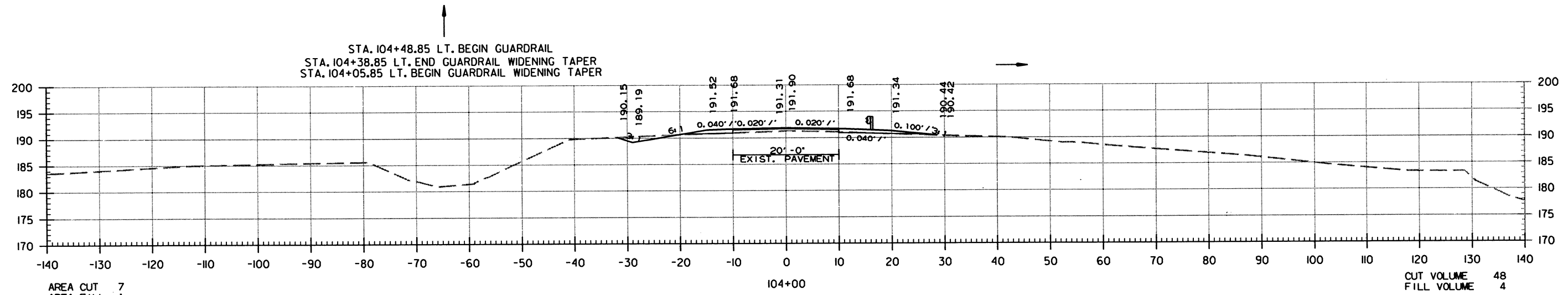
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: CMW DATE: 7/9/18 FILENAME: b020582.s2.dgn
CHECKED BY: JWP DATE: 12/11/18 SCALE: AS NOTED
DESIGNED BY: STD. DATE: BRIDGE NO. 07422 DRAWING NO. 60301

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.	020582		25	29

② CROSS SECTIONS

AREA

VOLUME



CROSS SECTION STA. 102+00 TO STA. 104+00

10/31/2017

R020582.DGN