

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	1	28
HWY. 7 CABLE MEDIAN BARRIER IMPVTS. (S)						

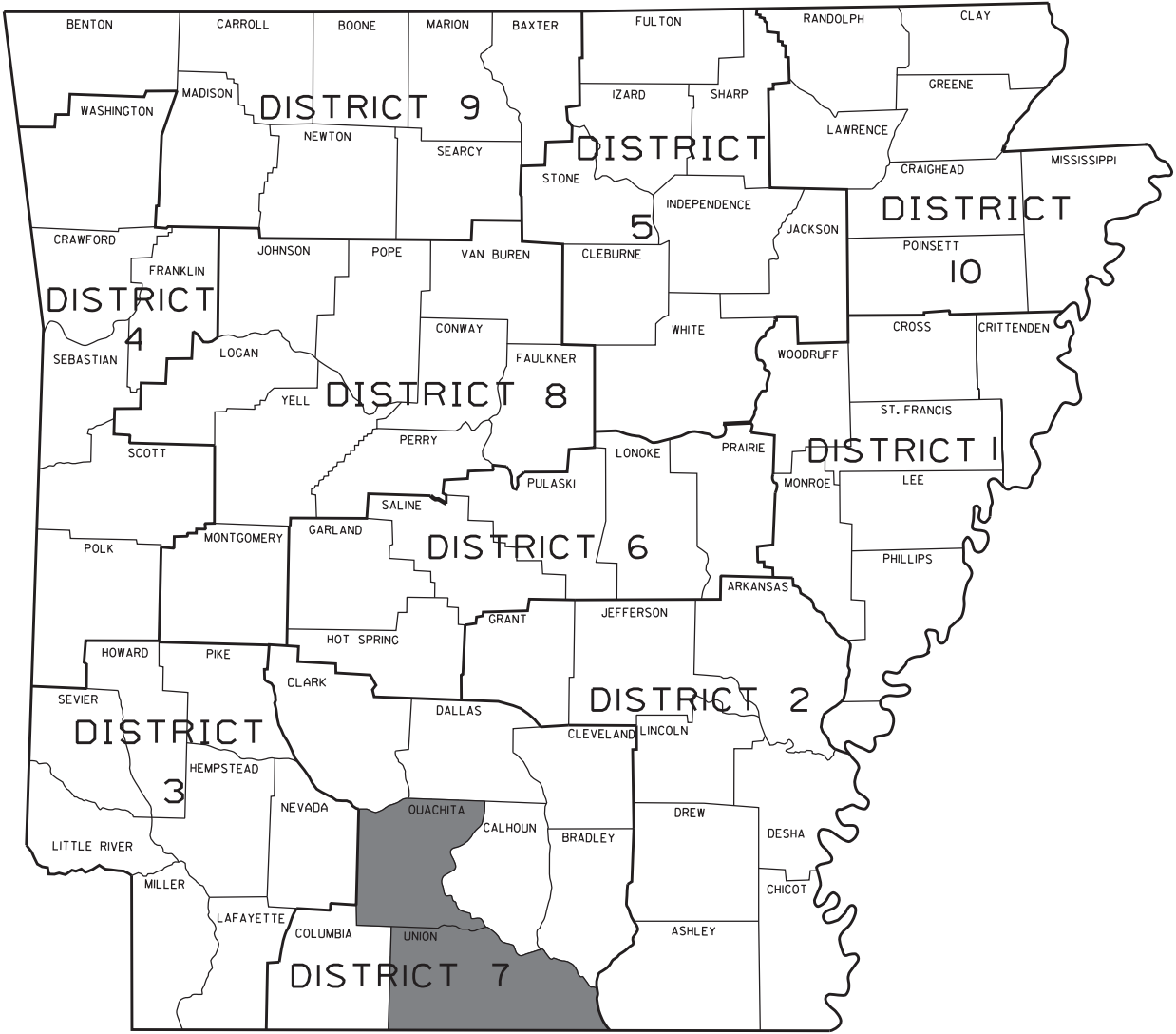
ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY



HWY. 7 CABLE MEDIAN
BARRIER IMPVTS. (S)
OUACHITA & UNION COUNTIES

JOB 070591

FED. AID PROJ. HSIP-5270(2)



ARK. HWY. DIST. NO. 7



Digitally signed by Michael L. Foster
Date: 2024.05.30 13:18:44 -05'00'

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	2	28
		INDEX OF SHEETS AND STANDARD DRAWINGS				



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Date: 2024.05.30

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARD DRAWINGS
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES
4 - 5	TYPICAL SECTIONS OF IMPROVEMENT
6 - 16	SPECIAL DETAILS
17 - 19	MAINTENANCE OF TRAFFIC DETAILS
20 - 25	QUANTITIES
26	SUMMARY OF QUANTITIES AND REVISIONS
27	OUACHITA AND UNION COUNTY PLAN
28	OUACHITA COUNTY PLAN

BRIDGE STANDARD DRAWINGS

55035	STANDARD DETAILS FOR TYPE "PT" APPROACH GUTTERS (BRIDGES WITH CONCRETE PARAPET RAILING)	11-07-19
55036	STANDARD DETAILS FOR TYPE 'AT' APPROACH GUTTERS (BRIDGES WITH 6" CURBS & TYPE A, B, C, D OR E RAILING)	11-07-19

ROADWAY STANDARD DRAWINGS

CDP-1	CONCRETE DITCH PAVING	12-08-16
GR-6	GUARDRAIL DETAILS	05-19-22
GR-8	GUARDRAIL DETAILS	11-07-19
GR-9	GUARDRAIL DETAILS	11-07-19
GR-10	GUARDRAIL DETAILS	11-07-19
GR-11	GUARDRAIL DETAILS	11-07-19
GR-12	GUARDRAIL DETAILS	05-14-20
GRT-1	GUARD RAIL DETAILS	11-07-19
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	08-12-21
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

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
102-3	PREQUALIFICATION OF BIDDERS
103-2	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
105-4	MAINTENANCE DURING CONSTRUCTION
107-2	RESTRAINING CONDITIONS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
210-1	UNCLASSIFIED EXCAVATION
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
307-2	CEMENT TREATED BASE COURSE
308-2	CEMENT STABILIZED CRUSHED STONE BASE COURSE
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
404-3	DESIGN OF ASPHALT MIXTURES
409-2	ASPHALT LABORATORY FACILITY
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
416-1	RECYCLED ASPHALT PAVEMENT
501-3	PORTLAND CEMENT CONCRETE PAVEMENT
600-2	INCIDENTAL CONSTRUCTION
603-1	LANE CLOSURE NOTIFICATION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
605-1	CONCRETE DITCH PAVING
617-1	GUARDRAIL TERMINAL (TYPE 2)
617-2	GUARDRAIL DELINEATORS
620-1	MULCH COVER
621-1	FILTER SOCKS
734-1	BRIDGE END TERMINAL
802-5	CONCRETE FOR STRUCTURES
804-2	REINFORCING STEEL FOR STRUCTURES
JOB 070591	BIDDING REQUIREMENTS AND CONDITIONS
JOB 070591	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 070591	BUY AMERICA - CONSTRUCTION MATERIALS
JOB 070591	CARGO PREFERENCE ACT REQUIREMENTS
JOB 070591	CONCRETE DITCH PAVING
JOB 070591	DESIGN AND QUALITY CONTROL ASPHALT MIXTURES
JOB 070591	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 070591	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 070591	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 070591	MANDATORY ELECTRONIC CONTRACT
JOB 070591	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 070591	PARTNERING REQUIREMENTS
JOB 070591	PERCENT AIR VOIDS AND DESIGN FOR ACHM SURFACE MIX DESIGNS
JOB 070591	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 070591	PRICE ADJUSTMENT FOR FUEL
JOB 070591	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 070591	SEQUENCE OF CONSTRUCTION
JOB 070591	STORM WATER POLLUTION PREVENTION PLAN
JOB 070591	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 070591	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 070591	UTILITY ADJUSTMENTS
JOB 070591	VALUE ENGINEERING
JOB 070591	WARM MIX ASPHALT
JOB 070591	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB 070591	WIRE ROPE SAFETY FENCE (POST REPAIR)
JOB 070591	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 070591	WRSF TRAINING WORKSHOP

GOVERNING SPECIFICATIONS

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

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/26/24		6	ARK.	070591	3	28
09/04/24		GOVERNING SPECIFICATIONS AND GENERAL NOTES				



Digitally signed by Thomas N. Taegtmeyer
Date: 2024.09.04

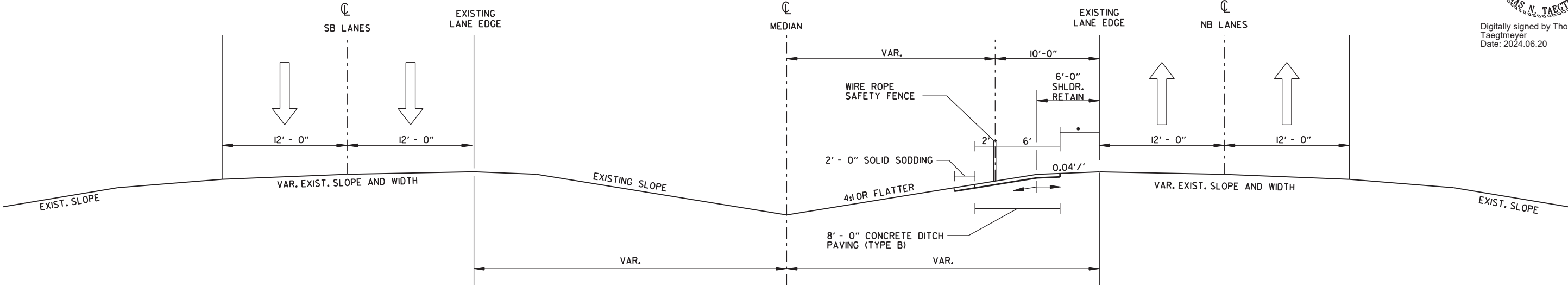
GENERAL NOTES

- 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.
- 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 ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- 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.
- 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.
- AGGREGATE BASE COURSE OUTSIDE THE EXISTING SHOULDERS SHALL BE UNIFORMLY COMPACTED, STABLE, AND FREE OF SEGREGATION. THE DENSITY REQUIREMENTS OF SECTION 303 ARE HEREBY WAIVED.
- PREPARATORY WORK, SUCH AS CLIPPING THE GRASS AND DEBRIS FROM THE EDGE OF THE EXISTING ROADWAY, WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED A PART OF THE OTHER ITEMS OF WORK.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	4	28
TYPICAL SECTIONS OF IMPROVEMENT						



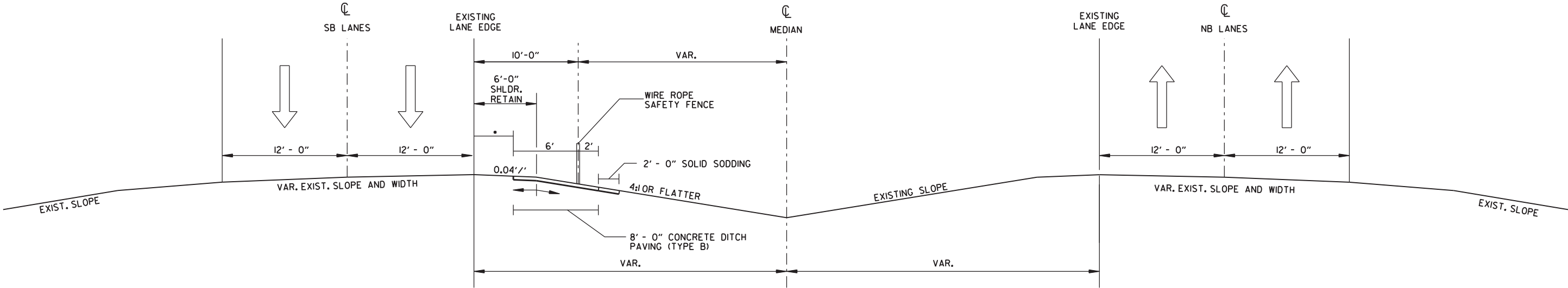
Digitally signed by Thomas N. Taegtmeyer
Date: 2024.06.20



TYPICAL SECTION OF IMPROVEMENT
FOR WIRE ROPE SAFETY FENCE RIGHT OF CENTERLINE

LOG MILE 0.210 TO LOG MILE 2.840 (SEC. 2)
LOG MILE 3.030 TO LOG MILE 6.208 (SEC. 2)
LOG MILE 10.862 TO LOG MILE 11.750 (SEC. 2)
LOG MILE 0.000 TO LOG MILE 1.410 (SEC. 3)
LOG MILE 10.890 TO LOG MILE 12.460 (SEC. 3)

• 4'-0" EXISTING PAVED SHOULDER TO REMAIN



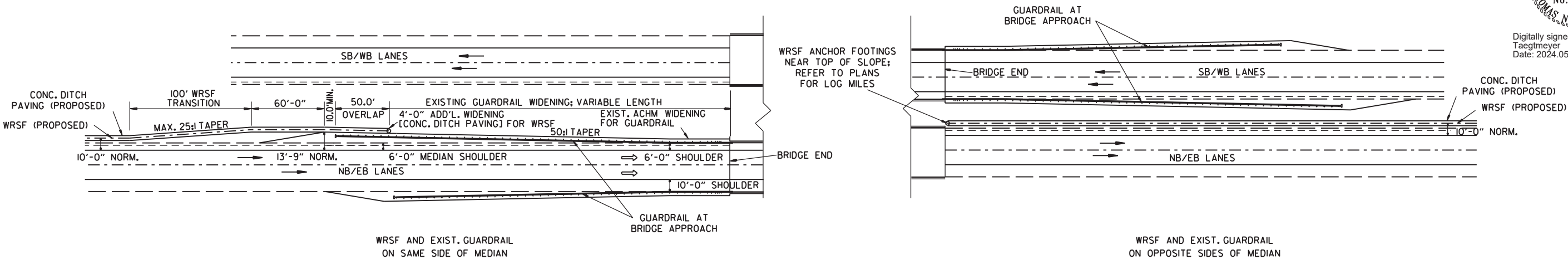
TYPICAL SECTION OF IMPROVEMENT
FOR WIRE ROPE SAFETY FENCE LEFT OF CENTERLINE

LOG MILE 0.210 TO LOG MILE 2.840 (SEC. 2)
LOG MILE 3.030 TO LOG MILE 6.208 (SEC. 2)
LOG MILE 10.862 TO LOG MILE 11.750 (SEC. 2)
LOG MILE 0.000 TO LOG MILE 1.410 (SEC. 3)
LOG MILE 10.890 TO LOG MILE 12.460 (SEC. 3)

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	6	28
SPECIAL DETAILS						

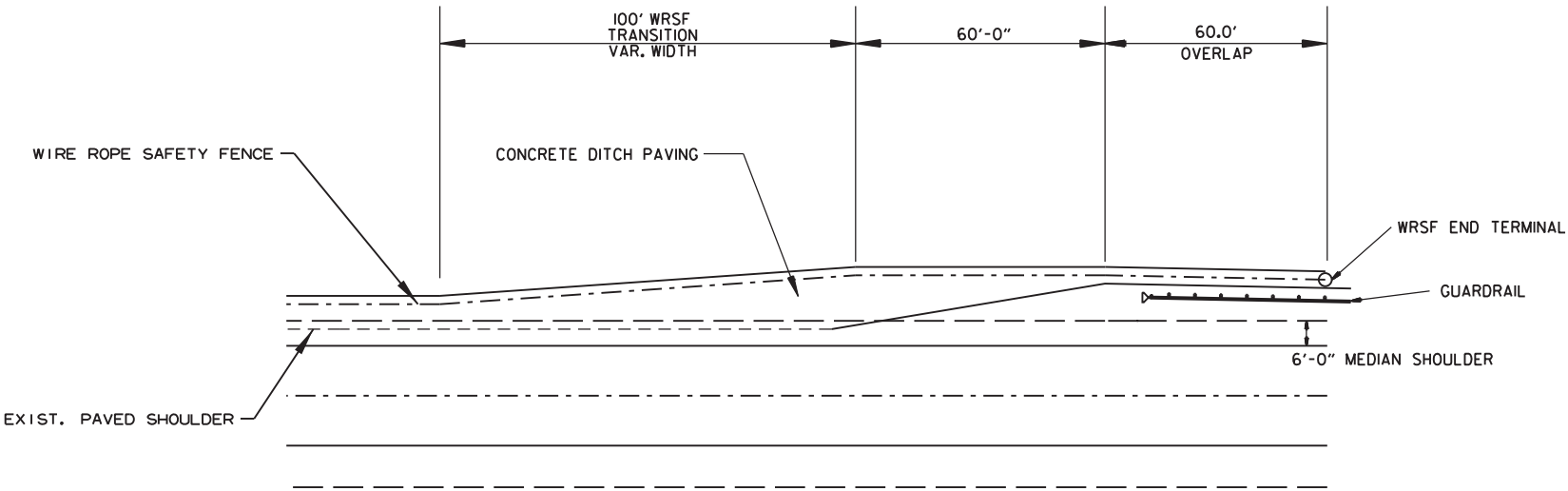


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Date: 2024.05.30



DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS

REFER TO PLANS FOR RELATIVE PLACEMENT
OF GUARDRAIL AND WIRE ROPE SAFETY FENCE
AT EACH BRIDGE END

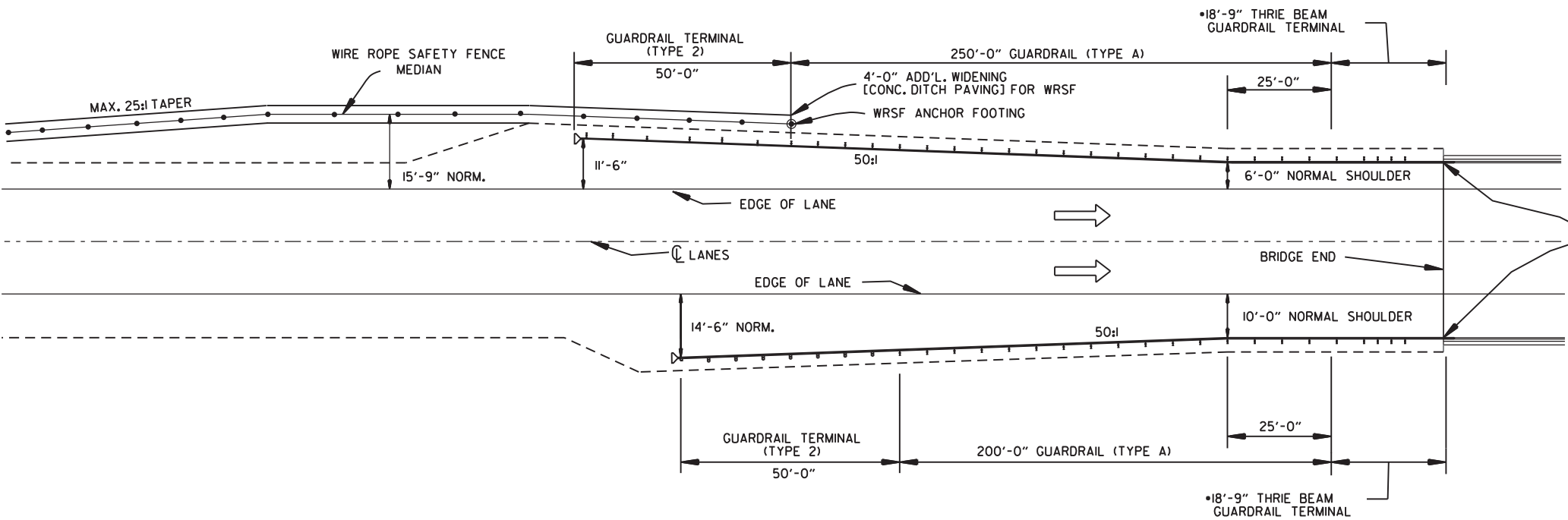


DETAIL OF CONCRETE DITCH PAVING AT GUARDRAIL LOCATIONS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	7	28
SPECIAL DETAILS						



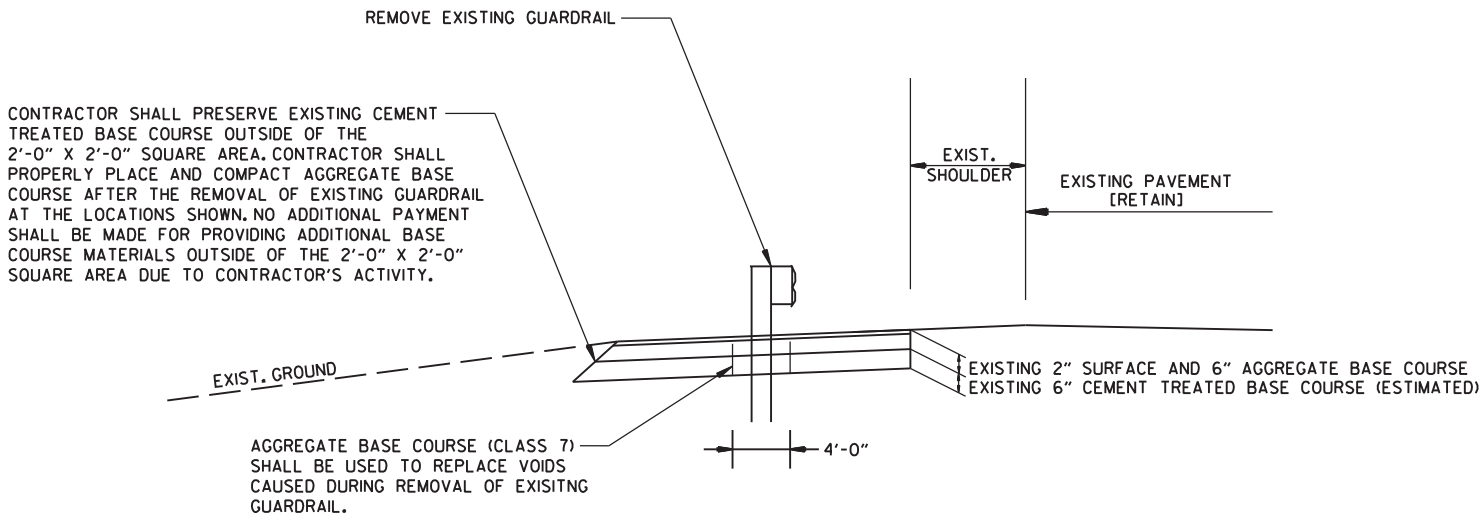
Digitally signed by Thomas N. Taegtmeyer
Date: 2024.05.30



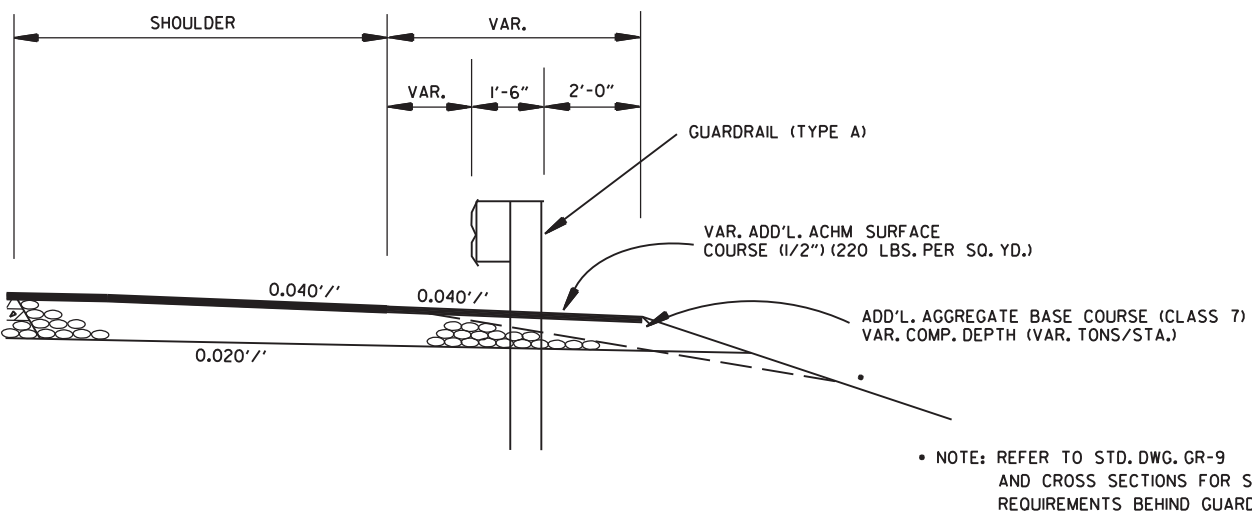
THRIE BEAM GUARDRAIL
CONNECTION AT BRIDGE
END. SEE STD. DWG. GR-10.

- THE CONTRACTOR SHALL DRILL 1" DIA. HOLES FOR THE NEW THRIE BEAM CONNECTION BOLTS IN THE EXISTING TRANSITION RAIL. CARE SHALL BE EXERCISED TO AVOID THE EXISTING REINFORCING STEEL IN THE RAIL. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS CONTRACT ITEMS. SEE STANDARD DRAWING GR-10 FOR ADDITIONAL DETAILS.

TYPICAL LAYOUT OF GUARDRAIL AT BRIDGE ENDS



DETAIL OF GUARDRAIL REMOVAL
N.T.S.



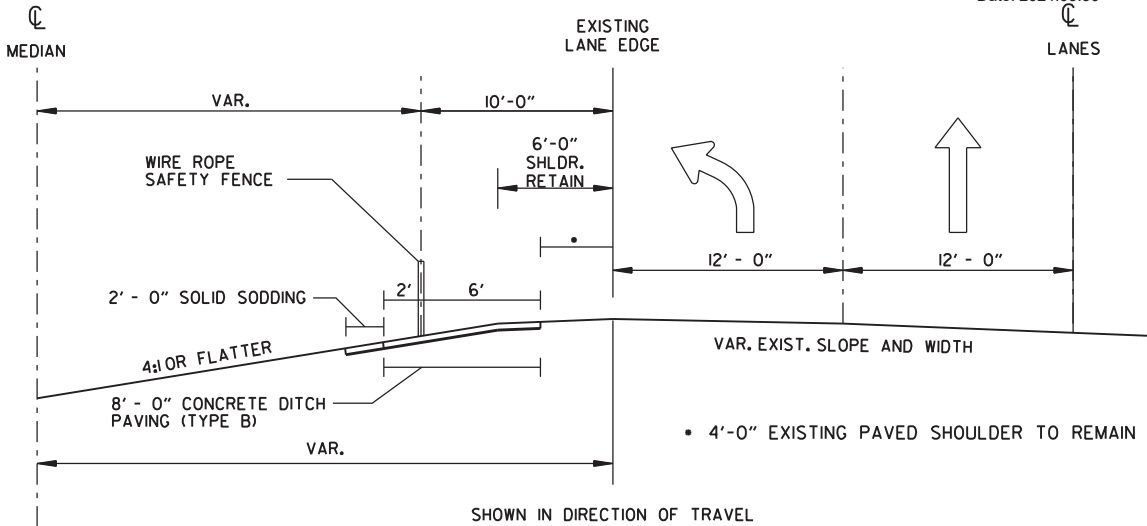
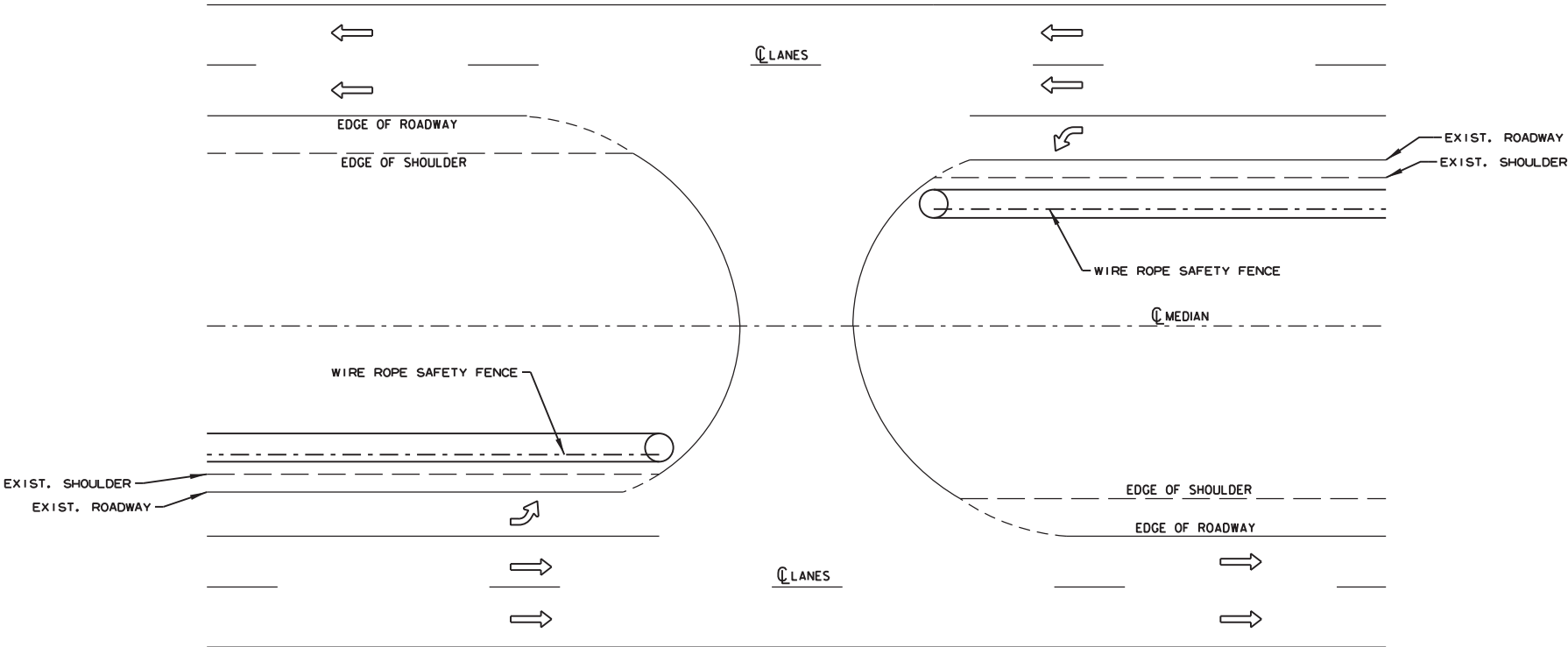
DETAILS OF SHOULDER WIDENING FOR GUARDRAIL

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

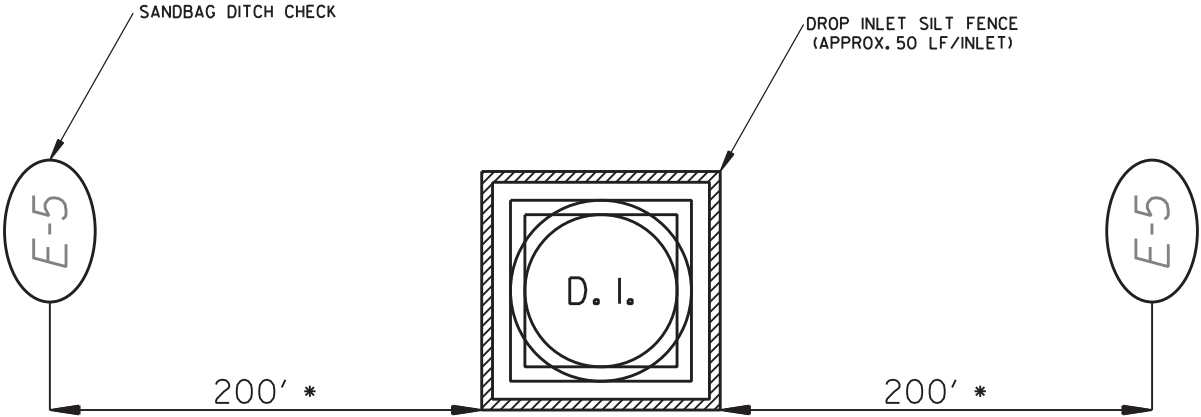
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	8	28
SPECIAL DETAILS						



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Date: 2024.05.30



DETAIL OF EXISTING MEDIAN CROSSING



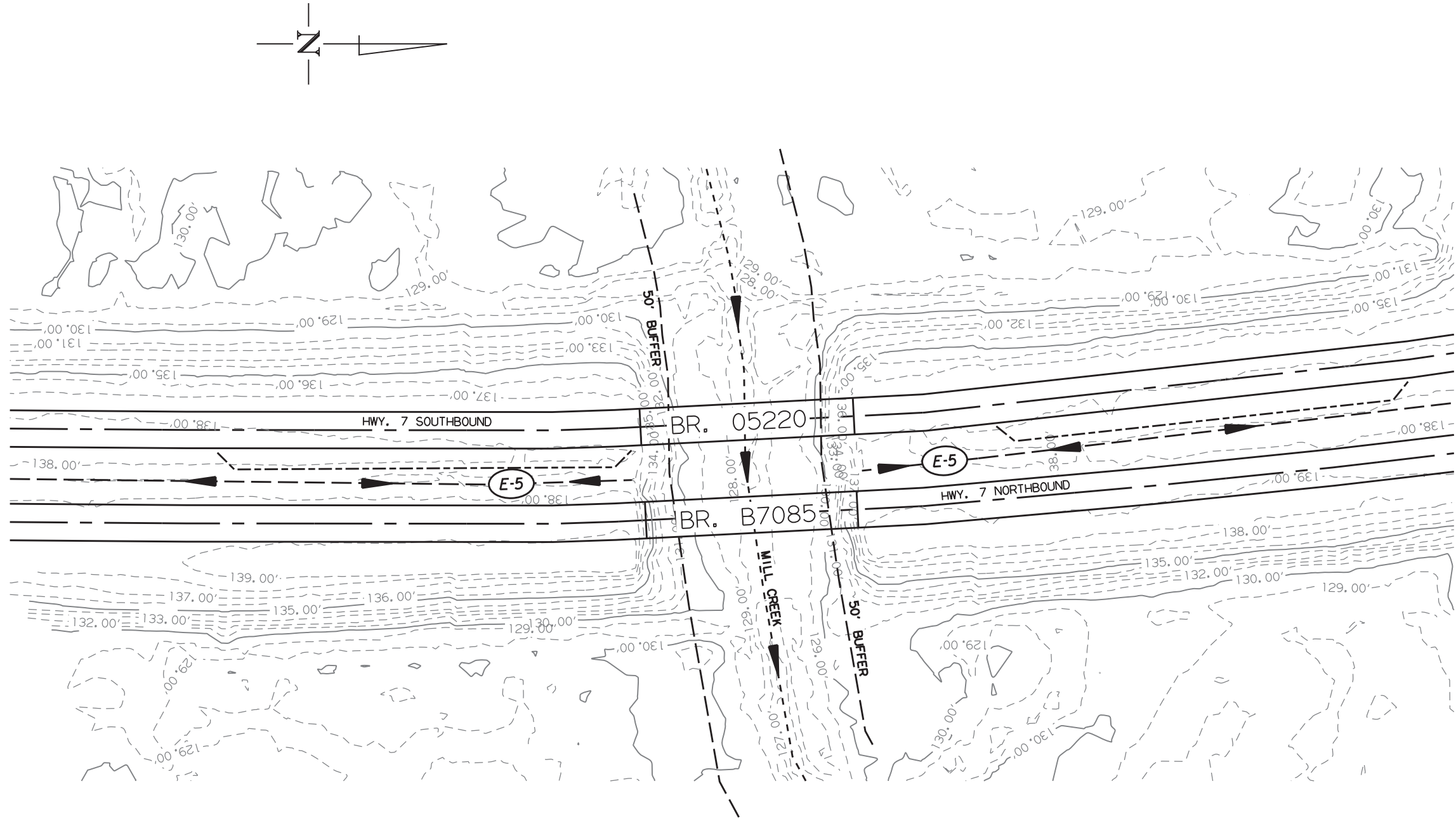
•200' SHOWN FOR INFORMATIONAL PURPOSES ONLY.
CONTRACTOR SHALL ADJUST DISTANCE AS DIRECTED
BY THE ENGINEER.

TEMPORARY EROSION CONTROL DETAIL
AT MEDIAN INLET

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	9	28
SPECIAL DETAILS						



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L.M. 0.825 HWY. 7, SEC. 2

SAND BAG DITCH CHECK

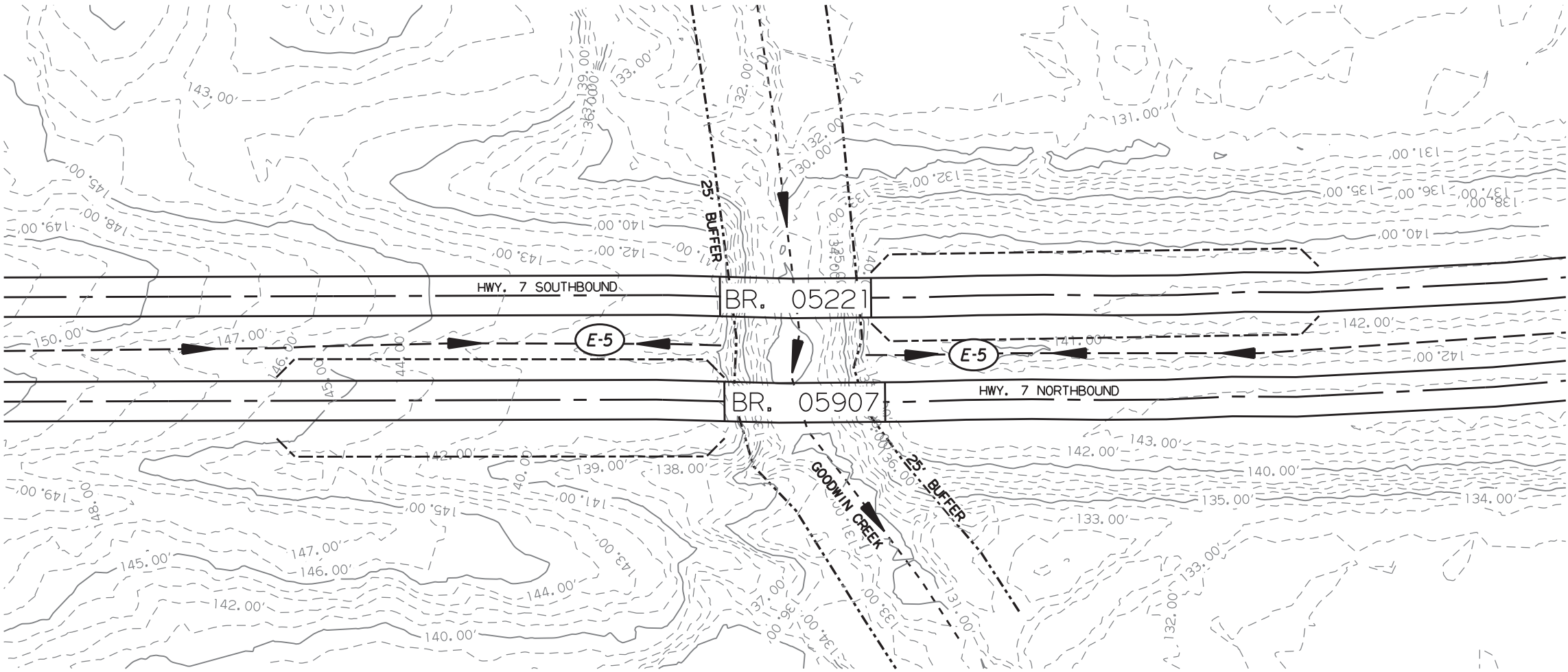
E-5

FILTER SOCK

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	10	28
SPECIAL DETAILS						



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L.M. 3.200 HWY. 7, SEC. 2

SAND BAG DITCH CHECK

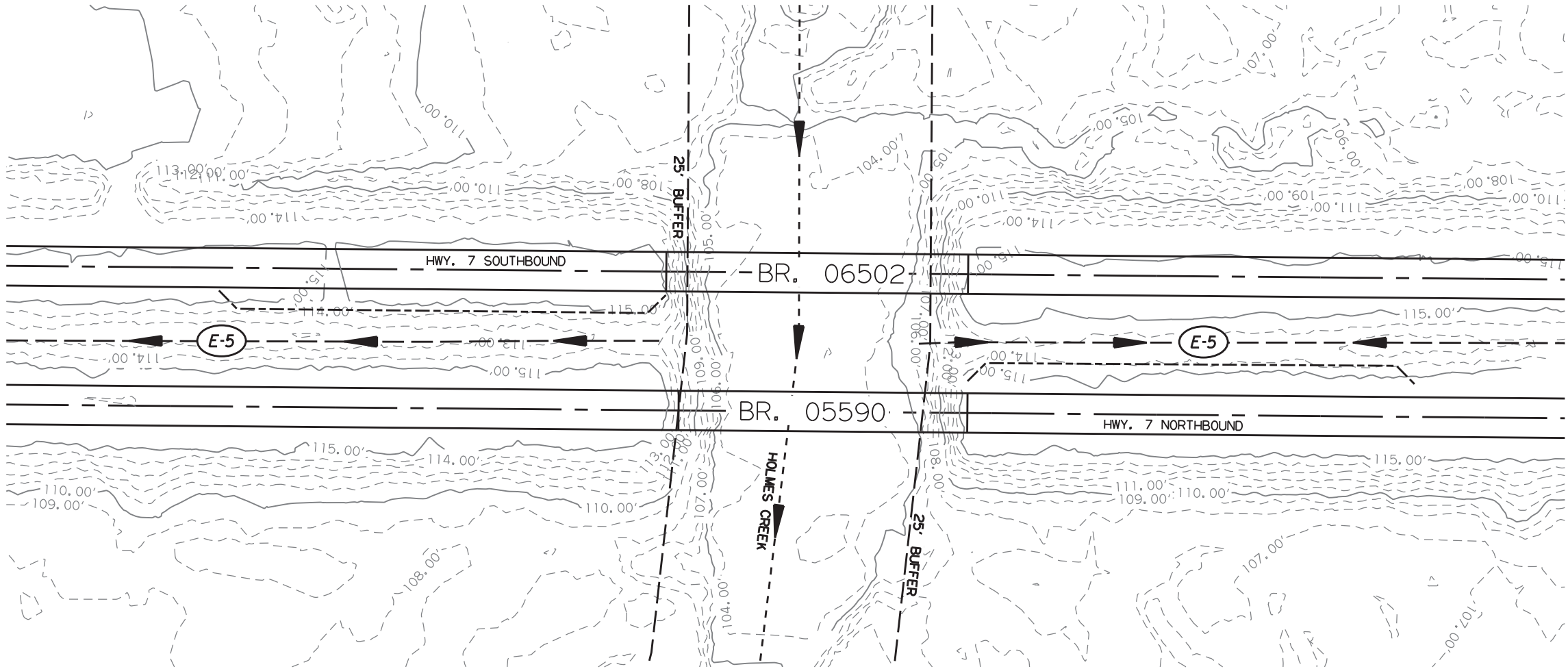
E-5

FILTER SOCK

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	11	28
SPECIAL DETAILS						



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L.M. 7.544 HWY. 7, SEC. 2

SAND BAG DITCH CHECK

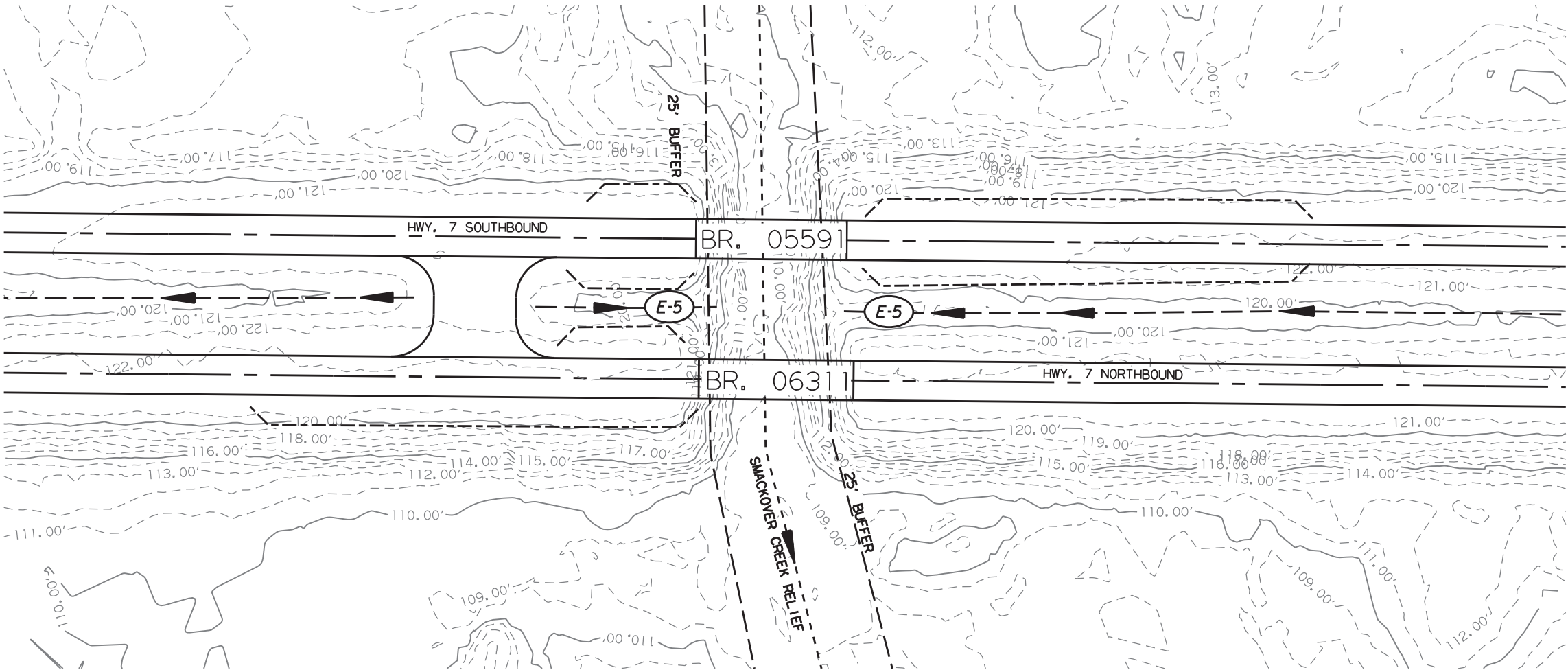
E-5

FILTER SOCK

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	12	28
SPECIAL DETAILS						



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L.M. 11.339 HWY. 7, SEC. 2

SAND BAG DITCH CHECK

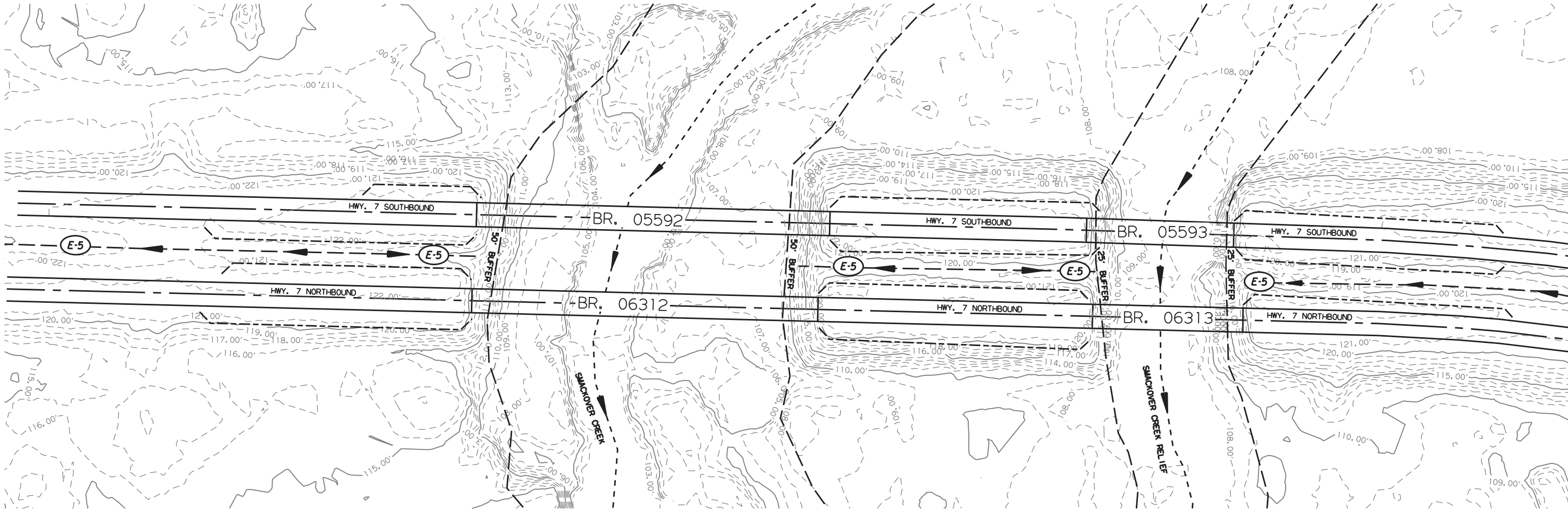
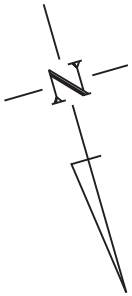
E-5

FILTER SOCK

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	13	28
SPECIAL DETAILS						



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L.M. 11.690 HWY. 7, SEC. 2

L.M. 0.090 HWY. 7, SEC. 3

SAND BAG DITCH CHECK

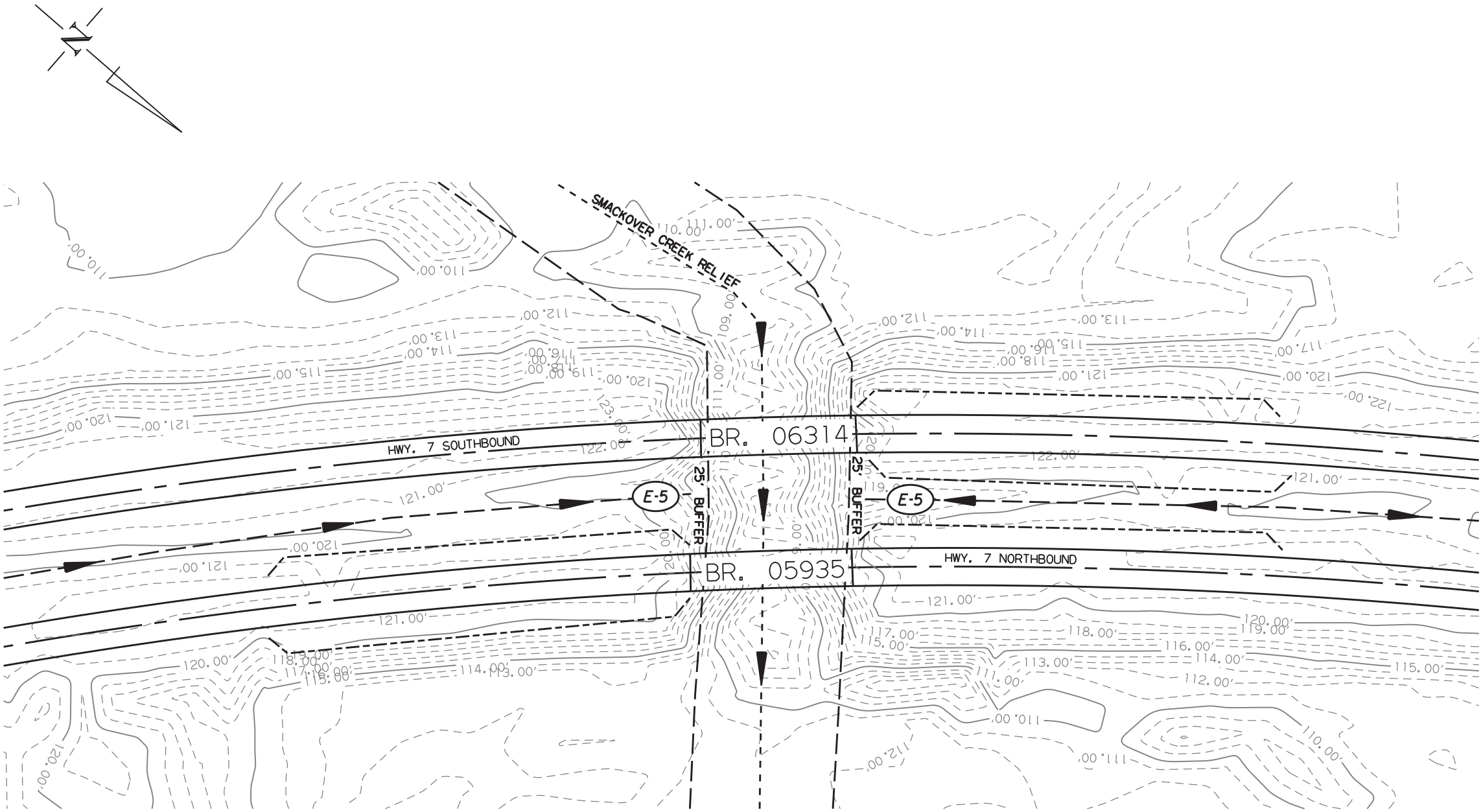
E-5

FILTER SOCK

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	14	28
SPECIAL DETAILS						



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L.M. 0.592 HWY. 7, SEC. 3

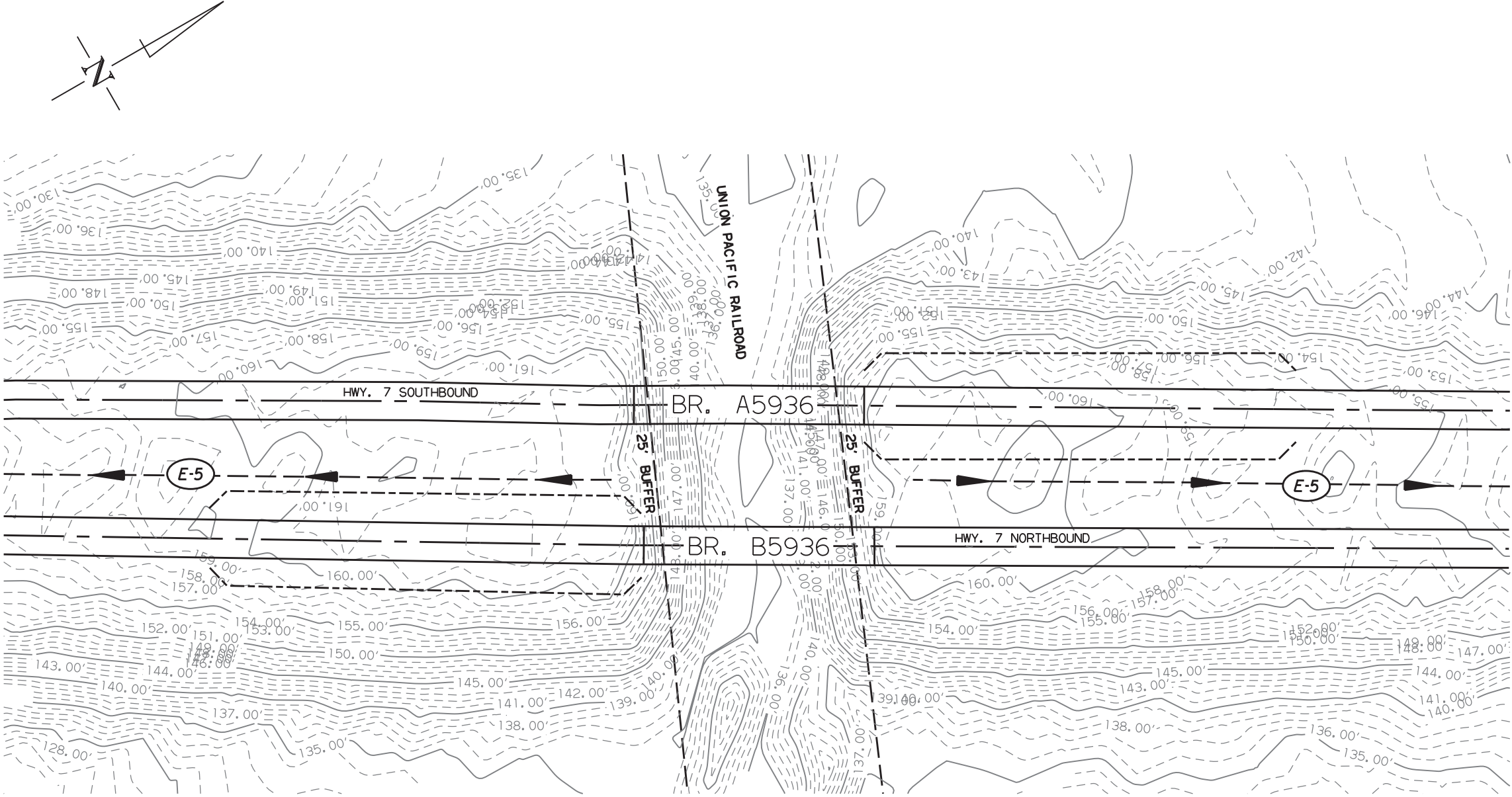
SAND BAG DITCH CHECK 

FILTER SOCK 

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	15	28
SPECIAL DETAILS						



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L.M. 1.285 HWY. 7, SEC. 3

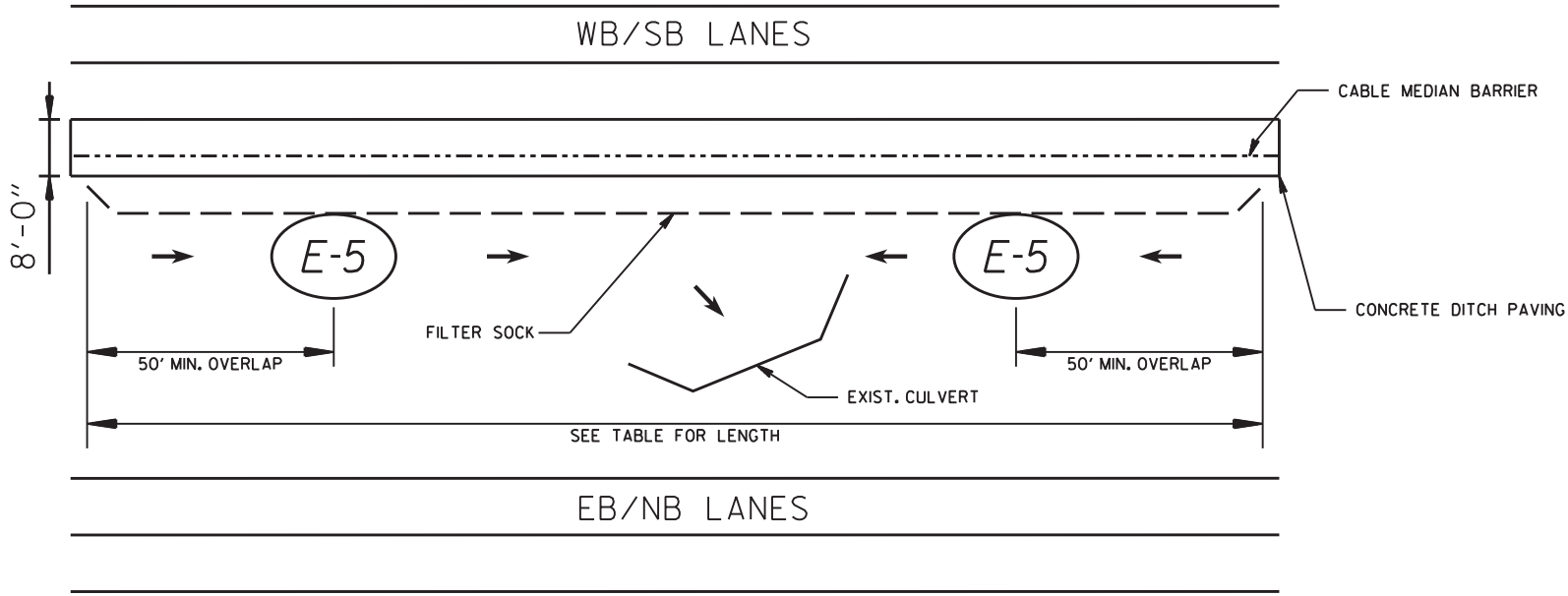
SAND BAG DITCH CHECK 

FILTER SOCK 



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FILTER SOCK LOCATIONS						
BEGIN LOG MILE	END LOG MILE	ROUTE AND SECTION	SITE	COUNTY	DESCRIPTION	LENGTH
0.778	0.825	HWY. 7, SEC. 2	1	UNION	BRIDGE END	250'
0.855	0.902	HWY. 7, SEC. 2	1	UNION	BRIDGE END	250'
3.139	3.196	HWY. 7, SEC. 2	2	UNION	BRIDGE END	540'
3.213	3.275	HWY. 7, SEC. 2	2	UNION	BRIDGE END	590'
4.286	4.400	HWY. 7, SEC. 2	2	UNION	CONCRETE DITCH PAVING	600'
4.436	4.475	HWY. 7, SEC. 2	2	UNION	CONCRETE DITCH PAVING	200'
5.364	5.666	HWY. 7, SEC. 2	2	UNION	CONCRETE DITCH PAVING	1595'
5.800	5.952	HWY. 7, SEC. 2	2	UNION	CONCRETE DITCH PAVING	805'
6.794	7.011	HWY. 7, SEC. 2	2	UNION	CONCRETE DITCH PAVING	1145'
7.497	7.544	HWY. 7, SEC. 2	2	UNION	BRIDGE END	250'
7.583	7.630	HWY. 7, SEC. 2	2	UNION	BRIDGE END	250'
9.006	9.126	HWY. 7, SEC. 2	3	UNION	CONCRETE DITCH PAVING	630'
9.208	9.307	HWY. 7, SEC. 2	3	UNION	CONCRETE DITCH PAVING	520'
9.565	9.684	HWY. 7, SEC. 2	3	UNION	CONCRETE DITCH PAVING	630'
9.913	9.939	HWY. 7, SEC. 2	3	UNION	CONCRETE DITCH PAVING	140'
10.217	10.416	HWY. 7, SEC. 2	3	UNION	CONCRETE DITCH PAVING	1050'
11.288	11.339	HWY. 7, SEC. 2	3	UNION	BRIDGE END	430'
11.358	11.418	HWY. 7, SEC. 2	3	UNION	BRIDGE END	590'
11.639	11.690	HWY. 7, SEC. 2	3	UNION	BRIDGE END	680'
0.038	0.090	HWY. 7, SEC. 2	3	UNION	BRIDGE END	1100'
0.118	0.178	HWY. 7, SEC. 3	3	OUACHITA	BRIDGE END	590'
0.532	0.592	HWY. 7, SEC. 3	3	OUACHITA	BRIDGE END	590'
0.613	0.673	HWY. 7, SEC. 3	3	OUACHITA	BRIDGE END	590'
0.869	1.045	HWY. 7, SEC. 3	3	OUACHITA	CONCRETE DITCH PAVING	930'
1.090	1.260	HWY. 7, SEC. 3	3	OUACHITA	CONCRETE DITCH PAVING	900'
1.225	1.285	HWY. 7, SEC. 3	3	OUACHITA	BRIDGE END	590'
1.313	1.373	HWY. 7, SEC. 3	3	OUACHITA	BRIDGE END	590'
1.360	1.410	HWY. 7, SEC. 3	3	OUACHITA	CONCRETE DITCH PAVING	260'



FILTER SOCK DETAIL
N.T.S.

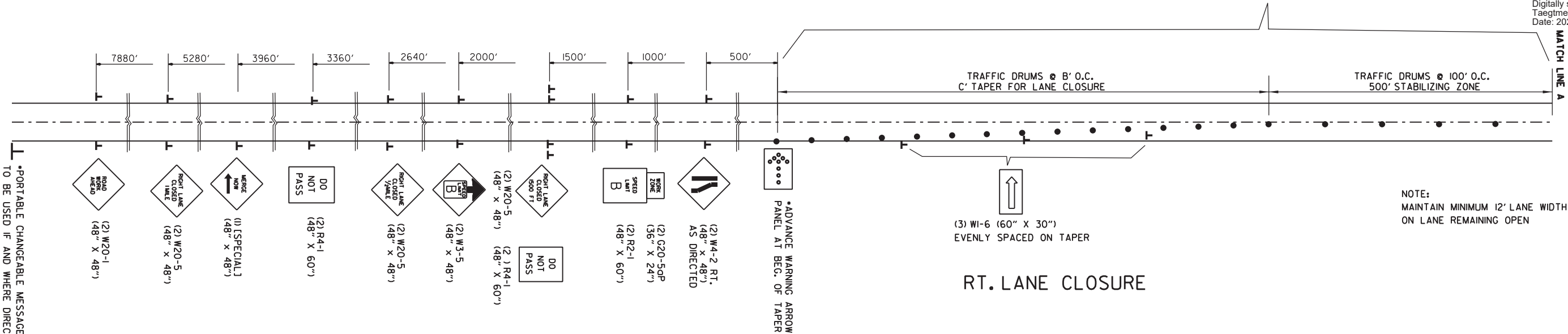


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	18	28
MAINTENANCE OF TRAFFIC DETAILS						

TABLE OF VARIABLES					
DESIGN SPEED "A"	B	C	D	E	
60	50	720	1100	600	
65	55	780	1210	660	
70	60	840	1320	720	
75	65	900	1430	780	



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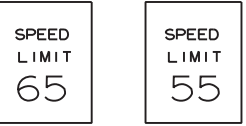


NOTE:
MAINTAIN MINIMUM 12' LANE WIDTH
ON LANE REMAINING OPEN

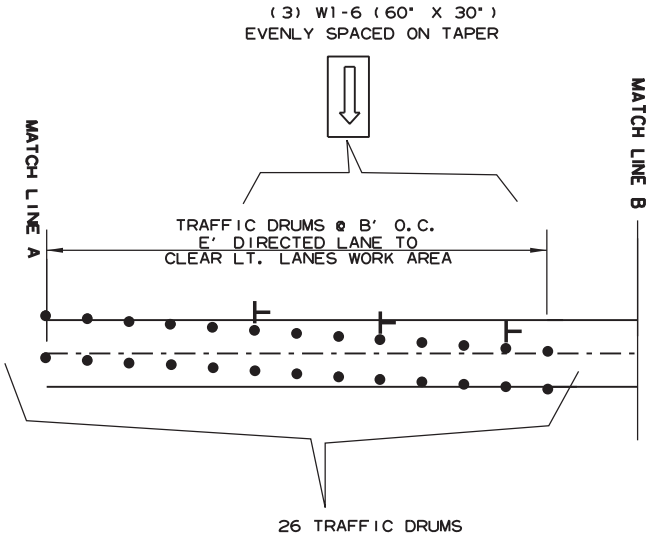
•TO BE PLACED AT MINIMUM OFFSET OF 12'
FROM EDGE OF THROUGH LANE OF TRAFFIC,
OR FURTHER IF PRACTICAL.

SPEED LIMIT SIGNS ARE ALSO PROVIDED
FOR PLACEMENT PAST ENTRANCE RAMP
WITHIN THE WORK ZONE.

••SPEED LIMIT SIGNS SHALL MATCH PERMANENT SPEED LIMIT.



NOTE: LOGMILE 2.312 TO LOG MILE 3.180 SPEED LIMIT 55 MPH TRAVEL SPEED.
ALL OTHER LOCATIONS SPEED LIMIT 65 MPH TRAVEL SPEED.



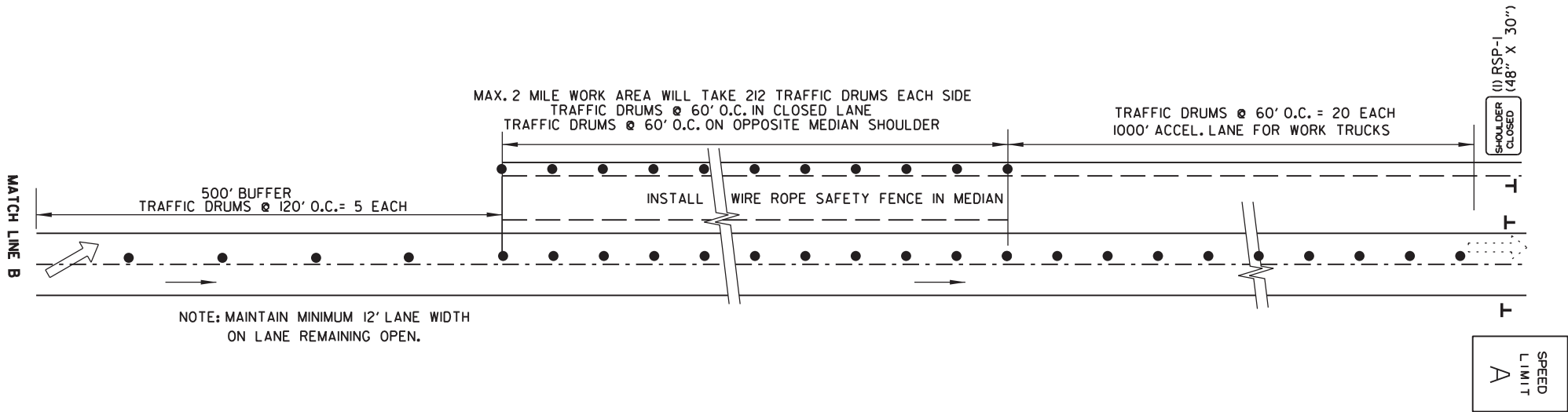
DIVERSION FOR LT. LANE WORK ZONE

LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	19	28
MAINTENANCE OF TRAFFIC DETAILS						



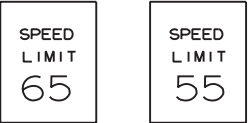
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Date: 2024.06.18



→ WORK VEHICLE ENTRY LOCATION
→ WORK VEHICLE EXIT LOCATION

NOTE: QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

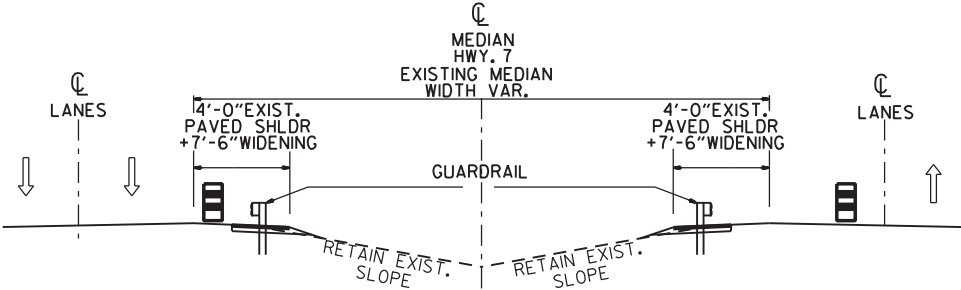
•SPEED LIMIT SIGNS SHALL MATCH PERMANENT SPEED LIMIT.



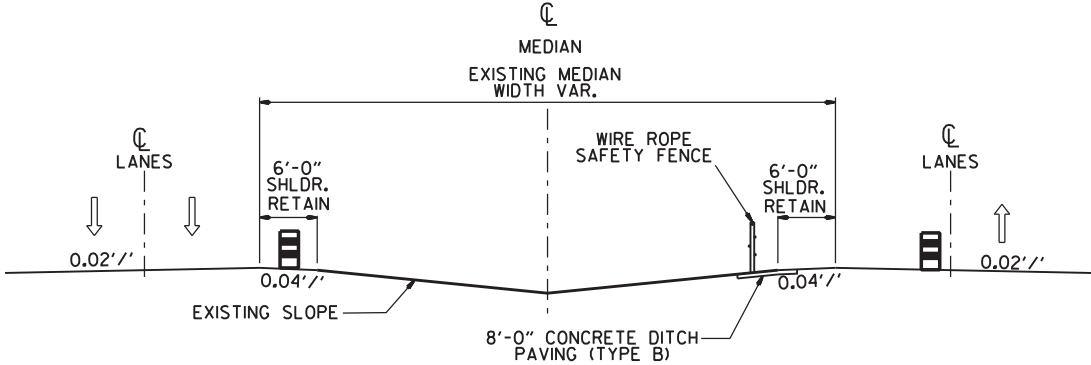
NOTE: LOGMILE 2.312 TO LOG MILE 3.180 SPEED LIMIT 55 MPH TRAVEL SPEED. ALL OTHER LOCATIONS SPEED LIMIT 65 MPH TRAVEL SPEED.

NOTE: CONTRACTOR MUST UTILIZE ENTRY/EXIT LOCATION AS SHOWN ON THE PLANS.

MOVABLE WORK ZONE FOR GUARDRAIL INSTALLATION



MOVABLE WORK ZONE FOR WRSF INSTALLATION



DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	20	28
QUANTITIES						



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ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	* ADVANCE WARNING ARROW PANEL	* PORTABLE CHANGEABLE MESSAGE SIGN
			EACH		NO.	SQ. FT.	EACH	DAY	WEEK
W20-1	ROAD WORK 1 MILE	48"x48"	4	4	4	64.0			
W20-1	ROAD WORK 1/2 MILE	48"x48"	4	4	4	64.0			
W20-1	ROAD WORK 1500 FT.	48"x48"	4	4	4	64.0			
* W20-1	ROAD WORK AHEAD	48"x48"	30	30	30	480.0			
* G20-2	END ROAD WORK	48"x24"	32	32	32	256.0			
G20-1	ROAD WORK NEXT xx MILES	60"x24"	2	2	2	20.0			
G20-5aP	WORK ZONE	36"x24"	2	2	2	12.0			
W1-6	LARGE ARROW	60"x30"	6	6	6	75.0			
W3-5	REDUCED SPEED LIMIT AHEAD	48"x48"	2	2	2	32.0			
W4-2	RIGHT LANE ENDS	48"x48"	2	2	2	32.0			
* R2-1	SPEED LIMIT	48"x60"	4	4	4	80.0			
R4-1	DO NOT PASS	48"x60"	4	4	4	80.0			
R55-1	FINE DOUBLE IN WORK ZONES WHEN WORKERS ARE PRESENT	36"x60"	4	4	4	60.0			
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	2	2	2	32.0			
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	2	2	2	32.0			
W20-5	RIGHT LANE CLOSED 1500 FT.	48"x48"	2	2	2	32.0			
W21-5a	SHOULDER CLOSED	48"x48"	2	2	2	32.0			
RSP-1	SHOULDER CLOSED	48"x30"	1	1	1	10.0			
SPECIAL	MERGE NOW ARROW	48"x48"	1	1	1	16.0			
	TRAFFIC DRUMS		494	494			494		
	ADVANCE WARNING ARROW PANEL		1	1				130	
	PORTABLE CHANGEABLE MESSAGE SIGN		2	2					56
TOTALS:					1473.0		494	130	56

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

QUANTITIES ABOVE ARE LISTED FOR 1 SITE USE ONLY. QUANTITIES TO BE RE-USED PER EACH SITE, AS NECESSARY.

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

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	21	28
QUANTITIES						



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Date: 2024.05.30

EROSION CONTROL (BOX 1 OF 2)																	
LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL							
					SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	18" FILTER SOCK	SAND BAG DITCH CHECKS	DROP INLET SILT FENCE	*SEDIMENT REMOVAL & DISPOSAL	
					ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	(E-3) LIN. FT.	(E-5) BAG	(E-7) LIN. FT.	CU. YD.	
0.210	0.524	1	UNION	RT. OF C.L. HWY. 7, SEC. 2						0.30	0.30	6.1					
0.534	0.600	1		LT. OF C.L. HWY. 7, SEC. 2						0.06	0.06	1.2					
0.613	0.825	1		LT. OF C.L. HWY. 7, SEC. 2						0.21	0.21	4.3	250				
0.910	1.192	1		LT. OF C.L. HWY. 7, SEC. 2						0.27	0.27	5.5	250				
1.204	1.706	1		LT. OF C.L. HWY. 7, SEC. 2						0.49	0.49	10.0					
1.719	2.124	1		LT. OF C.L. HWY. 7, SEC. 2						0.39	0.39	8.0					
2.137	2.517	1		LT. OF C.L. HWY. 7, SEC. 2						0.37	0.37	7.5					
2.531	2.840	1		RT. OF C.L. HWY. 7, SEC. 2						0.30	0.30	6.1					
3.030	3.200	2		RT. OF C.L. HWY. 7, SEC. 2						0.16	0.16	3.3	540				
3.127	3.167	2		L.T OF R.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.04	0.08	0.04	4.1	0.04								
3.213	3.376	2		LT. OF C.L. HWY. 7, SEC. 2						0.16	0.16	3.3	590				
3.243	3.267	2		LT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.02	0.04	0.02	2.0	0.02								
3.243	3.284	2		RT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.04	0.08	0.04	4.1	0.04								
3.385	3.618	2		LT. OF C.L. HWY. 7, SEC. 2						0.23	0.23	4.7					
3.618	3.799	2		RT. OF C.L. HWY. 7, SEC. 2						0.18	0.18	3.7					
3.811	4.058	2		RT. OF C.L. HWY. 7, SEC. 2						0.24	0.24	4.9					
4.068	4.412	2		RT. OF C.L. HWY. 7, SEC. 2						0.33	0.33	6.7	600				
4.421	4.832	2		LT. OF C.L. HWY. 7, SEC. 2						0.40	0.40	8.2	200				
4.841	5.305	2		RT. OF C.L. HWY. 7, SEC. 2						0.45	0.45	9.2					
5.314	5.671	2		RT. OF C.L. HWY. 7, SEC. 2						0.35	0.35	7.1	1595				
5.682	6.197	2		LT. OF C.L. HWY. 7, SEC. 2						0.50	0.50	10.2	805				
6.208	6.686	2		LT. OF C.L. HWY. 7, SEC. 2						0.46	0.46	9.4					
6.695	7.148	2		LT. OF C.L. HWY. 7, SEC. 2						0.44	0.44	9.0	1145				
7.158	7.544	2		LT. OF C.L. HWY. 7, SEC. 2						0.37	0.37	7.5	250				
7.583	7.667	2		RT. OF C.L. HWY. 7, SEC. 2						0.08	0.08	1.6	250				
7.678	8.180	2		RT. OF C.L. HWY. 7, SEC. 2						0.49	0.49	10.0					
8.970	9.396	3		RT. OF C.L. HWY. 7, SEC. 2						0.41	0.41	8.4	1150				
9.406	9.755	3		RT. OF C.L. HWY. 7, SEC. 2						0.34	0.34	6.9	630				
9.769	10.183	3		RT. OF C.L. HWY. 7, SEC. 2						0.40	0.40	8.2	140				
10.194	10.590	3		RT. OF C.L. HWY. 7, SEC. 2						0.38	0.38	7.8	1050				
10.600	10.985	3		LT. OF C.L. HWY. 7, SEC. 2						0.37	0.37	7.5					
10.997	11.308	3		LT. OF C.L. HWY. 7, SEC. 2						0.30	0.30	6.1	110				
11.279	11.339	3		RT. OF R.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.06	0.12	0.06	6.1	0.06								
11.319	11.339	3		RT. OF C.L. HWY. 7, SEC. 2						0.02	0.02	0.4	320				
11.324	11.339	3		RT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.01	0.02	0.01	1.0	0.01								
11.324	11.339	3		LT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.01	0.02	0.01	1.0	0.01								
11.333	11.339	3		LT. OF R.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.01	0.02	0.01	1.0	0.01								
11.358	11.418	3		LT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.06	0.12	0.06	6.1	0.06								
11.358	11.427	3		RT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.07	0.14	0.07	7.1	0.07								
11.358	11.626	3		RT. OF C.L. HWY. 7, SEC. 2						0.26	0.26	5.3	590				
11.636	11.690	3		LT. OF C.L. HWY. 7, SEC. 2						0.05	0.05	1.0	680				
11.639	11.690	3		RT. OF R.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
11.643	11.690	3		LT. OF R.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
11.664	11.690	3		RT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.03	0.06	0.03	3.1	0.03								
11.664	11.690	3		LT. OF L.M.L. HWY. 7, SEC. 2 - GUARDRAIL WIDENING	0.03	0.06	0.03	3.1	0.03	0.03	0.03	0.6	680				
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER					2.00	4.00	2.00	204.0	2.00	0.49	0.49	10.0		1144	1300	77	
COUNTY SUBTOTALS:					2.48	4.96	2.48	252.9	2.48	10.28	10.28	209.7	11825	1144	1300	77	
SUBTOTALS (BOX 1 OF 2):					2.48	4.96	2.48	252.9	2.48	10.28	10.28	209.7	11825	1144	1300	77	

BASIS OF ESTIMATE:
LIME 2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING
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.



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Date: 2024.05.30

EROSION CONTROL (BOX 2 OF 2)

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL							
					SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	18" FILTER SOCK	SAND BAG DITCH CHECKS	DROP INLET SILT FENCE	*SEDIMENT REMOVAL & DISPOSAL	
													(E-3) LIN. FT.	(E-5) BAG	(E-7) LIN. FT.	CU. YD.	
0.038	0.090	3	OUACHITA	RT. OF C.L. HWY. 7, SEC. 3					0.05	0.05	1.0	1100					
0.038	0.090	3		RT. OF R.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
0.038	0.090	3		LT. OF R.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
0.038	0.090	3		RT. OF L.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
0.038	0.090	3		LT. OF L.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
0.118	0.178	3		LT. OF C.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.06	0.12	0.06	6.1	0.06								
0.118	0.592	3		RT. OF C.L. HWY. 7, SEC. 3						0.46	0.46	9.4	1180				
0.523	0.592	3		LT. OF R.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.07	0.14	0.07	7.1	0.07								
0.541	0.592	3		RT. OF R.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
0.613	0.664	3		LT. OF L.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.05	0.10	0.05	5.1	0.05								
0.613	0.682	3		RT. OF L.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.07	0.14	0.07	7.1	0.07								
0.613	0.731	3		RT. OF C.L. HWY. 7, SEC. 3						0.11	0.11	2.2	590				
0.740	1.062	3		RT. OF C.L. HWY. 7, SEC. 3						0.31	0.31	6.3	930				
1.079	1.285	3		RT. OF C.L. HWY. 7, SEC. 3						0.20	0.20	4.1	1490				
1.216	1.285	3		LT. OF R.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.07	0.14	0.07	7.1	0.07								
1.244	1.285	3		RT. OF R.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.04	0.08	0.04	4.1	0.04								
1.313	1.373	3		LT. OF L.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.06	0.12	0.06	6.1	0.06								
1.313	1.382	3		RT. OF L.M.L. HWY. 7, SEC. 3 - GUARDRAIL WIDENING	0.07	0.14	0.07	7.1	0.07								
1.313	1.410	3		LT. OF C.L. HWY. 7, SEC. 3						0.09	0.09	1.8	590				
10.890	11.006	4		RT. OF C.L. HWY. 7, SEC. 3						0.11	0.11	2.2					
11.014	11.476	4		RT. OF C.L. HWY. 7, SEC. 3						0.45	0.45	9.2					
11.482	11.925	4		RT. OF C.L. HWY. 7, SEC. 3						0.43	0.43	8.8					
11.932	12.460	4		LT. OF C.L. HWY. 7, SEC. 3						0.51	0.51	10.4					
ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER					2.00	4.00	2.00	204.0	2.00	0.13	0.13	2.7		176	200	14	
COUNTY SUBTOTALS:					2.74	5.48	2.74	279.3	2.74	2.85	2.85	58.1	5880	176	200	14	
SUBTOTALS (BOX 2 OF 2)					2.74	5.48	2.74	279.3	2.74	2.85	2.85	58.1	5880	176	200	14	
SUBTOTALS (BOX 1 OF 2)					2.48	4.96	2.48	252.9	2.48	10.28	10.28	209.7	11825	1144	1300	77	
TOTALS:					5.22	10.44	5.22	532.2	5.22	13.13	13.13	267.8	17705	1320	1500	91	

BASIS OF ESTIMATE:
LIME 2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING
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.

APPROACH GUTTERS AND SLABS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/26/24		6	ARK.	070591	23	28
QUANTITIES						

LOG MILE	SITE NUMBER	COUNTY	LOCATION	APPROACH GUTTER			REINFORCING STEEL-RDWY. (GR. 60)
				TYPE 'AT'	TYPE 'PT'	TOTAL	
				CU.YD.	CU.YD.	CU.YD.	POUND
3.196	2	UNION	HWY. 7, SEC. 2 - LT. OF R.M.L.		8.13	8.13	848
3.200	2		HWY. 7, SEC. 2 - RT. OF R.M.L.		8.13	8.13	848
3.213	2		HWY. 7, SEC. 2 - LT. OF L.M.L.	19.30		19.30	1600
3.213	2		HWY. 7, SEC. 2 - RT. OF L.M.L.	19.30		19.30	1600
11.339	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	19.30		19.30	1600
11.339	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	12.70		12.70	1087
11.358	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	19.30		19.30	1600
11.358	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	12.70		12.70	1087
11.690	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	7.75		7.75	703
11.690	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	7.75		7.75	703
COUNTY SUBTOTALS:				118.10	16.26	134.36	11676
0.038	3	OUACHITA	HWY. 7, SEC. 3 - LT. OF L.M.L.	7.75		7.75	703
0.038	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	7.75		7.75	703
0.090	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	7.75		7.75	703
0.090	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	7.75		7.75	703
0.118	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	7.75		7.75	703
0.118	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	7.75		7.75	703
0.592	3		HWY. 7, SEC. 3 - LT. OF R.M.L.		8.13	8.13	848
0.592	3		HWY. 7, SEC. 3 - RT. OF R.M.L.		8.13	8.13	848
1.285	3		HWY. 7, SEC. 3 - LT. OF R.M.L.		8.13	8.13	848
1.285	3		HWY. 7, SEC. 3 - RT. OF R.M.L.		8.13	8.13	848
1.313	3		HWY. 7, SEC. 3 - LT. OF L.M.L.		8.13	8.13	848
1.313	3		HWY. 7, SEC. 3 - RT. OF L.M.L.		8.13	8.13	848
COUNTY SUBTOTALS:				46.50	48.78	95.28	9306
TOTALS:				164.60	65.04	229.64	20982

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT	
			CU. YD.		
*	ENTIRE	PROJECT	GUARDRAIL WIDENING LOCATIONS	308	
	ENTIRE	PROJECT	TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER	60	820
	TOTALS:			368	820

* QUANTITY ESTIMATED
SEE SECTION 104.03 OF THE STD. SPECS

NOTE: EARTHWORK QUANTITIES SHALL BE PAID AS PLAN QUANTITY.



Digitally signed by Thomas N. Taegtmeyer
Date: 2024.08.20

REMOVAL AND DISPOSAL OF ITEMS

GUARDRAIL									
LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)	TERMINAL ANCHOR POST (TYPE 1)	BRIDGE END TERMINAL
					LIN. FT.	EACH			
3.136	3.196	2	UNION	HWY. 7, SEC. 2 - LT. OF R.M.L.	250	1	1		
3.162	3.200	2		HWY. 7, SEC. 2 - RT. OF R.M.L.	125	1	1		
3.213	3.264	2		HWY. 7, SEC. 2 - LT. OF L.M.L.	200	1	1		
3.213	3.273	2		HWY. 7, SEC. 2 - RT. OF L.M.L.	250	1	1		
11.288	11.339	3		HWY. 7, SEC. 2 - RT. OF R.M.L.	200	1	1		
11.324	11.339	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	75	1		1	
11.324	11.339	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	75	1		1	
11.333	11.339	3		HWY. 7, SEC. 2 - LT. OF R.M.L.					1
11.358	11.409	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	200	1	1		
11.358	11.418	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	250	1	1		
11.639	11.690	3		HWY. 7, SEC. 2 - RT. OF R.M.L.	200	1	1		
11.643	11.690	3		HWY. 7, SEC. 2 - LT. OF R.M.L.	175	1	1		
11.675	11.690	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	75	1		1	
11.675	11.690	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	75	1		1	
COUNTY SUBTOTALS:					2150	13	9	4	1
0.038	0.090	3	OUACHITA	HWY. 7, SEC. 3 - LT. OF R.M.L.	275	2			
0.038	0.090	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	275	2			
0.038	0.090	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	275	2			
0.038	0.090	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	275	2			
0.118	0.169	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	200	1	1		
0.118	0.178	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	250	1	1		
0.532	0.592	3		HWY. 7, SEC. 3 - LT. OF R.M.L.	200	1	1		
0.541	0.592	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	250	1	1		
0.613	0.664	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	200	1	1		
0.613	0.673	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	250	1	1		
1.225	1.285	3		HWY. 7, SEC. 3 - LT. OF R.M.L.	250	1	1		
1.235	1.285	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	200	1	1		
1.313	1.364	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	200	1	1		
1.313	1.373	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	250	1	1		
COUNTY SUBTOTALS:					3350	18	10		
TOTALS:					5500	31	19	4	1

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	APPROACH GUTTERS	GUARDRAIL
					EACH	LIN. FT.
3.170	3.196	2	UNION	HWY. 7, SEC. 2 - LT. OF R.M.L.	1	150
3.172	3.200	2		HWY. 7, SEC. 2 - RT. OF R.M.L.	1	150
3.213	3.237	2		HWY. 7, SEC. 2 - LT. OF L.M.L.	1	150
3.213	3.237	2		HWY. 7, SEC. 2 - RT. OF L.M.L.	1	150
11.299	11.339	3		HWY. 7, SEC. 2 - RT. OF R.M.L.		200
11.331	11.339	3		HWY. 7, SEC. 2 - LT. OF L.M.L.		25
11.331	11.339	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	1	50
11.333	11.339	3		HWY. 7, SEC. 2 - LT. OF R.M.L.	1	50
11.358	11.387	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	1	175
11.358	11.387	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	1	175
11.651	11.690	3		HWY. 7, SEC. 2 - LT. OF R.M.L.		200
11.651	11.690	3		HWY. 7, SEC. 2 - RT. OF R.M.L.		200
11.673	11.690	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	1	75
11.673	11.690	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	1	75
COUNTY SUBTOTALS:					10	1825
0.038	0.090	3	OUACHITA	HWY. 7, SEC. 3 - LT. OF R.M.L.		275
0.038	0.090	3		HWY. 7, SEC. 3 - RT. OF R.M.L.		275
0.038	0.090	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	2	275
0.038	0.090	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	2	275
0.118	0.155	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	1	200
0.118	0.155	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	1	200
0.552	0.592	3		HWY. 7, SEC. 3 - LT. OF R.M.L.	1	200
0.552	0.592	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	1	200
0.613	0.653	3		HWY. 7, SEC. 3 - LT. OF L.M.L.		200
0.613	0.653	3		HWY. 7, SEC. 3 - RT. OF L.M.L.		200
1.247	1.285	3		HWY. 7, SEC. 3 - LT. OF R.M.L.	1	200
1.247	1.285	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	1	200
1.313	1.351	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	1	200
1.313	1.351	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	1	200
COUNTY SUBTOTALS:					12	3100
TOTALS:					22	4925

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.

QUANTITIES

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	24	28
QUANTITIES						



Digitally signed by Thomas N. Taegtmeyer
Date: 2024.05.30

CONCRETE DITCH PAVING

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
					LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
0.210	0.524	1	UNION	RT. OF C.L. HWY. 7, SEC. 2	1657.92	8.00	1473.71	368.43	4.64
0.534	0.600	1		LT. OF C.L. HWY. 7, SEC. 2	348.48	8.00	309.76	77.44	0.98
0.613	0.825	1		LT. OF C.L. HWY. 7, SEC. 2	1119.36	8.00	994.99	248.75	3.13
0.910	0.933	1		LT. OF C.L. HWY. 7, SEC. 2	121.44	VAR.	214.11	26.99	0.34
0.933	1.192	1		LT. OF C.L. HWY. 7, SEC. 2	1367.52	8.00	1215.57	303.89	3.83
1.204	1.706	1		LT. OF C.L. HWY. 7, SEC. 2	2650.56	8.00	2356.05	589.01	7.42
1.719	2.124	1		LT. OF C.L. HWY. 7, SEC. 2	2138.40	8.00	1900.80	475.20	5.99
2.137	2.517	1		LT. OF C.L. HWY. 7, SEC. 2	2006.40	8.00	1783.47	445.87	5.62
2.531	2.840	1		RT. OF C.L. HWY. 7, SEC. 2	1631.52	8.00	1450.24	362.56	4.57
3.030	3.104	1		RT. OF C.L. HWY. 7, SEC. 2	390.72	8.00	347.31	86.83	1.09
3.104	3.145	2		RT. OF C.L. HWY. 7, SEC. 2	216.48	VAR.	214.11	48.11	0.61
3.266	3.307	2		LT. OF C.L. HWY. 7, SEC. 2	216.48	VAR.	214.11	48.11	0.61
3.307	3.376	2		LT. OF C.L. HWY. 7, SEC. 2	364.32	8.00	323.84	80.96	1.02
3.385	3.618	2		LT. OF C.L. HWY. 7, SEC. 2	1230.24	8.00	1093.55	273.39	3.44
3.609	3.799	2		RT. OF C.L. HWY. 7, SEC. 2	1003.20	8.00	891.73	222.93	2.81
3.811	4.058	2		RT. OF C.L. HWY. 7, SEC. 2	1304.16	8.00	1159.25	289.81	3.65
4.068	4.412	2		RT. OF C.L. HWY. 7, SEC. 2	1816.32	8.00	1614.51	403.63	5.09
4.421	4.832	2		LT. OF C.L. HWY. 7, SEC. 2	2170.08	8.00	1928.96	482.24	6.08
4.841	5.305	2		RT. OF C.L. HWY. 7, SEC. 2	2449.92	8.00	2177.71	544.43	6.86
5.314	5.671	2		RT. OF C.L. HWY. 7, SEC. 2	1884.96	8.00	1675.52	418.88	5.28
5.682	6.197	2		LT. OF C.L. HWY. 7, SEC. 2	2719.20	8.00	2417.07	604.27	7.61
6.208	6.686	2		LT. OF C.L. HWY. 7, SEC. 2	2523.84	8.00	2243.41	560.85	7.07
6.695	7.148	2		LT. OF C.L. HWY. 7, SEC. 2	2391.84	8.00	2126.08	531.52	6.70
7.158	7.544	2		LT. OF C.L. HWY. 7, SEC. 2	2038.08	8.00	1811.63	452.91	5.71
7.583	7.627	2		RT. OF C.L. HWY. 7, SEC. 2	232.32	6.00	154.88	51.63	0.65
7.627	7.667	2		RT. OF C.L. HWY. 7, SEC. 2	211.20	8.00	187.73	46.93	0.59
7.678	8.154	2		RT. OF C.L. HWY. 7, SEC. 2	2513.28	6.00	1675.52	558.51	7.04
8.154	8.180	2		RT. OF C.L. HWY. 7, SEC. 2	137.28	8.00	122.03	30.51	0.38
8.970	9.373	3		RT. OF C.L. HWY. 7, SEC. 2	2127.84	6.00	1418.56	472.85	5.96
9.373	9.396	3		RT. OF C.L. HWY. 7, SEC. 2	121.44	8.00	107.95	26.99	0.34
9.406	9.722	3		RT. OF C.L. HWY. 7, SEC. 2	1668.48	6.00	1112.32	370.77	4.67
9.722	9.755	3		RT. OF C.L. HWY. 7, SEC. 2	174.24	8.00	154.88	38.72	0.49
9.769	10.159	3		RT. OF C.L. HWY. 7, SEC. 2	2059.20	6.00	1372.80	457.60	5.77
10.159	10.183	3		RT. OF C.L. HWY. 7, SEC. 2	126.72	8.00	112.64	28.16	0.35
10.194	10.543	3		RT. OF C.L. HWY. 7, SEC. 2	1842.72	6.00	1228.48	409.49	5.16
10.543	10.590	3		RT. OF C.L. HWY. 7, SEC. 2	248.6	8.00	220.59	55.15	0.69
10.600	10.985	3		LT. OF C.L. HWY. 7, SEC. 2	2032.80	8.00	1806.93	451.73	5.69
10.997	11.308	3		LT. OF C.L. HWY. 7, SEC. 2	1642.08	8.00	1459.63	364.91	4.60
11.319	11.339	3		RT. OF C.L. HWY. 7, SEC. 2	105.60	8.00	93.87	23.47	0.30
11.358	11.626	3		RT. OF C.L. HWY. 7, SEC. 2	1415.04	8.00	1257.81	314.45	3.96
11.636	11.645	3		LT. OF C.L. HWY. 7, SEC. 2	47.52	8.00	42.24	10.56	0.13
11.643	11.684	3		LT. OF C.L. HWY. 7, SEC. 2	216.48	VAR.	193.00	48.11	0.61
COUNTY SUBTOTALS:							44659.35	11707.55	147.53
0.118	0.500	3	OUACHITA	RT. OF C.L. HWY. 7, SEC. 3	2016.96	8.00	1792.85	448.21	5.65
0.500	0.541	3		RT. OF C.L. HWY. 7, SEC. 3	216.48	VAR.	193.00	48.11	0.61
0.613	0.731	3		RT. OF C.L. HWY. 7, SEC. 3	623.04	8.00	553.81	138.45	1.74
0.740	1.062	3		RT. OF C.L. HWY. 7, SEC. 3	1700.16	8.00	1511.25	377.81	4.76
1.079	1.193	3		RT. OF C.L. HWY. 7, SEC. 3	601.92	8.00	535.04	133.76	1.69
1.193	1.234	3		RT. OF C.L. HWY. 7, SEC. 3	216.48	VAR.	214.11	48.11	0.61
1.364	1.405	3		LT. OF C.L. HWY. 7, SEC. 3	216.48	VAR.	193.00	48.11	0.61
1.405	1.410	3		LT. OF C.L. HWY. 7, SEC. 3	26.40	8.00	23.47	5.87	0.07
10.890	11.006	4		RT. OF C.L. HWY. 7, SEC. 3	612.48	8.00	544.43	136.11	1.71
11.014	11.476	4		RT. OF C.L. HWY. 7, SEC. 3	2439.36	8.00	2168.32	542.08	6.83
11.482	11.925	4		RT. OF C.L. HWY. 7, SEC. 3	2339.04	8.00	2079.15	519.79	6.55
11.932	12.460	4		LT. OF C.L. HWY. 7, SEC. 3	2787.84	8.00	2478.08	619.52	7.81
COUNTY SUBTOTALS:							12286.51	3065.93	38.64
TOTALS:							56945.86	14773.48	186.17

BASIS OF ESTIMATE:
WATER.....12.6 GAL. / SQ. YD. OF SOLID SODDING.

WIRE ROPE SAFETY FENCE

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	WIRE ROPE SAFETY FENCE	*WRSF ANCHOR	WRSF MAINTENANCE MATERIALS	**WRSF (POST REPAIR)
					LIN. FT	EACH	LUMP SUM	EACH
0.210	0.524	1	UNION	RT. OF C.L. HWY. 7, SEC. 2	1658	2		
0.534	0.600	1		LT. OF C.L. HWY. 7, SEC. 2	348	2		
0.613	0.825	1		LT. OF C.L. HWY. 7, SEC. 2	1119	2		
0.910	1.192	1		LT. OF C.L. HWY. 7, SEC. 2	1489	2		
1.204	1.706	1		LT. OF C.L. HWY. 7, SEC. 2	2651	2		
1.719	2.124	1		LT. OF C.L. HWY. 7, SEC. 2	2138	2		
2.137	2.517	1		LT. OF C.L. HWY. 7, SEC. 2	2006	2		
2.531	2.840	1		RT. OF C.L. HWY. 7, SEC. 2	1632	2		
3.030	3.145	2		RT. OF C.L. HWY. 7, SEC. 2	607	2		
3.266	3.376	2		LT. OF C.L. HWY. 7, SEC. 2	581	2		
3.385	3.618	2		LT. OF C.L. HWY. 7, SEC. 2	1230	2		
3.609	3.799	2		RT. OF C.L. HWY. 7, SEC. 2	1003	2		
3.811	4.058	2		RT. OF C.L. HWY. 7, SEC. 2	1304	2		
4.068	4.412	2		RT. OF C.L. HWY. 7, SEC. 2	1816	2		
4.421	4.832	2		LT. OF C.L. HWY. 7, SEC. 2	2170	2		
4.841	5.305	2		RT. OF C.L. HWY. 7, SEC. 2	2450	2		
5.314	5.671	2		RT. OF C.L. HWY. 7, SEC. 2	1885	2		
5.682	6.197	2		LT. OF C.L. HWY. 7, SEC. 2	2719	2		
6.208	6.686	2		LT. OF C.L. HWY. 7, SEC. 2	2524	2		
6.695	7.148	2		LT. OF C.L. HWY. 7, SEC. 2	2392	2		
7.158	7.544	2		LT. OF C.L. HWY. 7, SEC. 2	2038	2		
7.583	7.667	2		RT. OF C.L. HWY. 7, SEC. 2	444	2		
7.678	8.180	2		RT. OF C.L. HWY. 7, SEC. 2	2651	2		
8.970	9.396	3		RT. OF C.L. HWY. 7, SEC. 2	2249	2		
9.406	9.755	3		RT. OF C.L. HWY. 7, SEC. 2	1643	2		
9.769	10.183	3		RT. OF C.L. HWY. 7, SEC. 2	2186	2		
10.194	10.590	3		RT. OF C.L. HWY. 7, SEC. 2	2091	2		
10.600	10.985	3		LT. OF C.L. HWY. 7, SEC. 2	2033	2		
10.997	11.308	3		LT. OF C.L. HWY. 7, SEC. 2	1642	2		
11.319	11.339	3		RT. OF C.L. HWY. 7, SEC. 2	106	2		
11.358	11.626	3		RT. OF C.L. HWY. 7, SEC. 2	1415	2		
11.636	11.684	3		LT. OF C.L. HWY. 7, SEC. 2	253	2		
COUNTY SUBTOTALS:					52673	64		
			OUACHITA					
0.118	0.541	3		RT. OF C.L. HWY. 7, SEC. 3	2233	2		
0.613	0.731	3		RT. OF C.L. HWY. 7, SEC. 3	623	2		
0.740	1.062	3		RT. OF C.L. HWY. 7, SEC. 3	1700	2		
1.079	1.234	3		RT. OF C.L. HWY. 7, SEC. 3	818	2		
1.364	1.410	3		LT. OF C.L. HWY. 7, SEC. 3	243	2		
10.890	11.006	4		RT. OF C.L. HWY. 7, SEC. 3	612	2		
11.014	11.476	4		RT. OF C.L. HWY. 7, SEC. 3	2439	2		
11.482	11.925	4		RT. OF C.L. HWY. 7, SEC. 3	2339	2		
11.932	12.460	4		LT. OF C.L. HWY. 7, SEC. 3	2788	2		
COUNTY SUBTOTALS:					13795	18		
ENTIRE		PROJECT					1.00	50
TOTALS:					66468	82	1.00	50

* THIS ITEM IS SHOWN FOR INFORMATION ONLY.
** QUANTITY ESTIMATED.
SEE SECTION 104.03 OF THE STD. SPECS.
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	25	28
QUANTITIES						



Digitally signed by Thomas N. Taegtmeyer
Date: 2024.05.30

BASE AND SURFACING - ADDITIONAL FOR GUARDRAIL WIDENING												
LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2")				
						TON / STATION	TON	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 64-22	
								FEET			TON	
3.127	3.167	2	UNION	HWY. 7, SEC. 2 - LT. OF R.M.L.	211.20	40.00	84.48	VAR.	26067	220.00	28.67	
3.243	3.267	2		HWY. 7, SEC. 2 - LT. OF L.M.L.	126.72	40.00	50.69	VAR.	15020	220.00	16.52	
3.243	3.284	2		HWY. 7, SEC. 2 - RT. OF L.M.L.	216.48	40.00	86.59	VAR.	27577	220.00	30.33	
11.279	11.339	3		HWY. 7, SEC. 2 - RT. OF R.M.L.	316.80	40.00	126.72	5.50	19360	220.00	21.30	
11.324	11.339	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	79.20	40.00	31.68	5.50	48.40	220.00	5.32	
11.324	11.339	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	79.20	40.00	31.68	5.50	48.40	220.00	5.32	
11.333	11.339	3		HWY. 7, SEC. 2 - LT. OF R.M.L.	31.68	40.00	12.67	3.50	12.32	220.00	1.36	
11.358	11.413	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	316.80	40.00	126.72	5.50	19360	220.00	21.30	
11.358	11.427	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	364.32	40.00	145.73	5.50	22264	220.00	24.49	
11.639	11.690	3		HWY. 7, SEC. 2 - RT. OF R.M.L.	269.28	40.00	107.71	5.50	16456	220.00	18.10	
11.643	11.690	3		HWY. 7, SEC. 2 - LT. OF R.M.L.	248.16	40.00	99.26	5.50	15165	220.00	16.68	
11.664	11.690	3		HWY. 7, SEC. 2 - LT. OF L.M.L.	137.28	40.00	54.91	3.50	5339	220.00	5.87	
11.664	11.690	3		HWY. 7, SEC. 2 - RT. OF L.M.L.	137.28	40.00	54.91	5.50	83.89	220.00	9.23	
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.							51.00		93.00		10.00	
COUNTY SUBTOTALS:							1064.75		1952.09		214.49	
			OUACHITA	HWY. 7, SEC. 3 - LT. OF R.M.L.	274.56	40.00	109.82	5.50	16779	220.00	18.46	
0.038	0.090	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	274.56	40.00	109.82	5.50	16779	220.00	18.46	
0.038	0.090	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	274.56	40.00	109.82	5.50	16779	220.00	18.46	
0.038	0.090	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	274.56	40.00	109.82	5.50	16779	220.00	18.46	
0.118	0.176	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	316.80	40.00	126.72	5.50	19360	220.00	21.30	
0.118	0.187	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	364.32	40.00	145.73	5.50	22264	220.00	24.49	
0.523	0.592	3		HWY. 7, SEC. 3 - LT. OF R.M.L.	364.32	40.00	145.73	5.50	22264	220.00	24.49	
0.541	0.592	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	269.28	40.00	107.71	5.50	16456	220.00	18.10	
0.613	0.664	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	269.28	40.00	107.71	5.50	16456	220.00	18.10	
0.613	0.682	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	364.32	40.00	145.73	5.50	22264	220.00	24.49	
1.216	1.285	3		HWY. 7, SEC. 3 - LT. OF R.M.L.	364.32	40.00	145.73	5.50	22264	220.00	24.49	
1.244	1.285	3		HWY. 7, SEC. 3 - RT. OF R.M.L.	216.48	40.00	86.59	5.50	13229	220.00	14.55	
1.313	1.373	3		HWY. 7, SEC. 3 - LT. OF L.M.L.	316.80	40.00	126.72	5.50	19360	220.00	21.30	
1.313	1.382	3		HWY. 7, SEC. 3 - RT. OF L.M.L.	364.32	40.00	145.73	5.50	22264	220.00	24.49	
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.							86.00		13200		14.00	
COUNTY SUBTOTALS:							1809.38		2764.97		303.64	
TOTALS:							2874.13		4717.06		518.13	

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (1/2").....94.1% MIN. AGGR.....5.9% ASPHALT BINDER

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

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
08/26/24		6	ARK.	070591	26	28
09/04/24						
SUMMARY OF QUANTITIES AND REVISIONS						



Digitally signed by Thomas N. Taegtmeyer
Date: 2024.09.04

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF APPROACH GUTTERS	22	EACH
202	REMOVAL AND DISPOSAL OF GUARDRAIL	4925	LIN. FT.
SP, SS, & 210	UNCLASSIFIED EXCAVATION	368	CU. YD.
SP & 210	COMPACTED EMBANKMENT	820	CU. YD.
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)	2874	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	487	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	31	TON
SP, SS, & 504	APPROACH GUTTERS	229.64	CU. YD.
601	MOBILIZATION	1.00	LUMP SUM
SS & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	1473	SQ. FT.
SS & 604	TRAFFIC DRUMS	494	EACH
SS & 604	ADVANCE WARNING ARROW PANEL	130	DAY
SP, SS, & 604	PORTABLE CHANGEABLE MESSAGE SIGN	56	WEEK
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE B)	56946	SQ. YD.
SS & 617	GUARDRAIL (TYPE A)	5500	LIN. FT.
SS & 617	TERMINAL ANCHOR POSTS (TYPE 1)	4	EACH
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	19	EACH
SS & 617	THRIE BEAM GUARDRAIL TERMINAL	31	EACH
SP	WIRE ROPE SAFETY FENCE	66468	LIN. FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE (POST REPAIR)	50	EACH
620	LIME	10	TON
620	SEEDING	5.22	ACRE
SS & 620	MULCH COVER	18.35	ACRE
620	WATER	986.2	M. GAL.
621	TEMPORARY SEEDING	13.13	ACRE
621	SAND BAG DITCH CHECKS	1320	BAG
621	DROP INLET SILT FENCE	1500	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	91	CU. YD.
SS & 62'	FILTER SOCK (18")	17705	LIN. FT.
623	SECOND SEEDING APPLICATION	5.22	ACRE
624	SOLID SODDING	14773	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SS & 734	BRIDGE END TERMINAL	1	EACH
SS & 804	REINFORCING STEEL-ROADWAY (GRADE 60)	20932	POUND

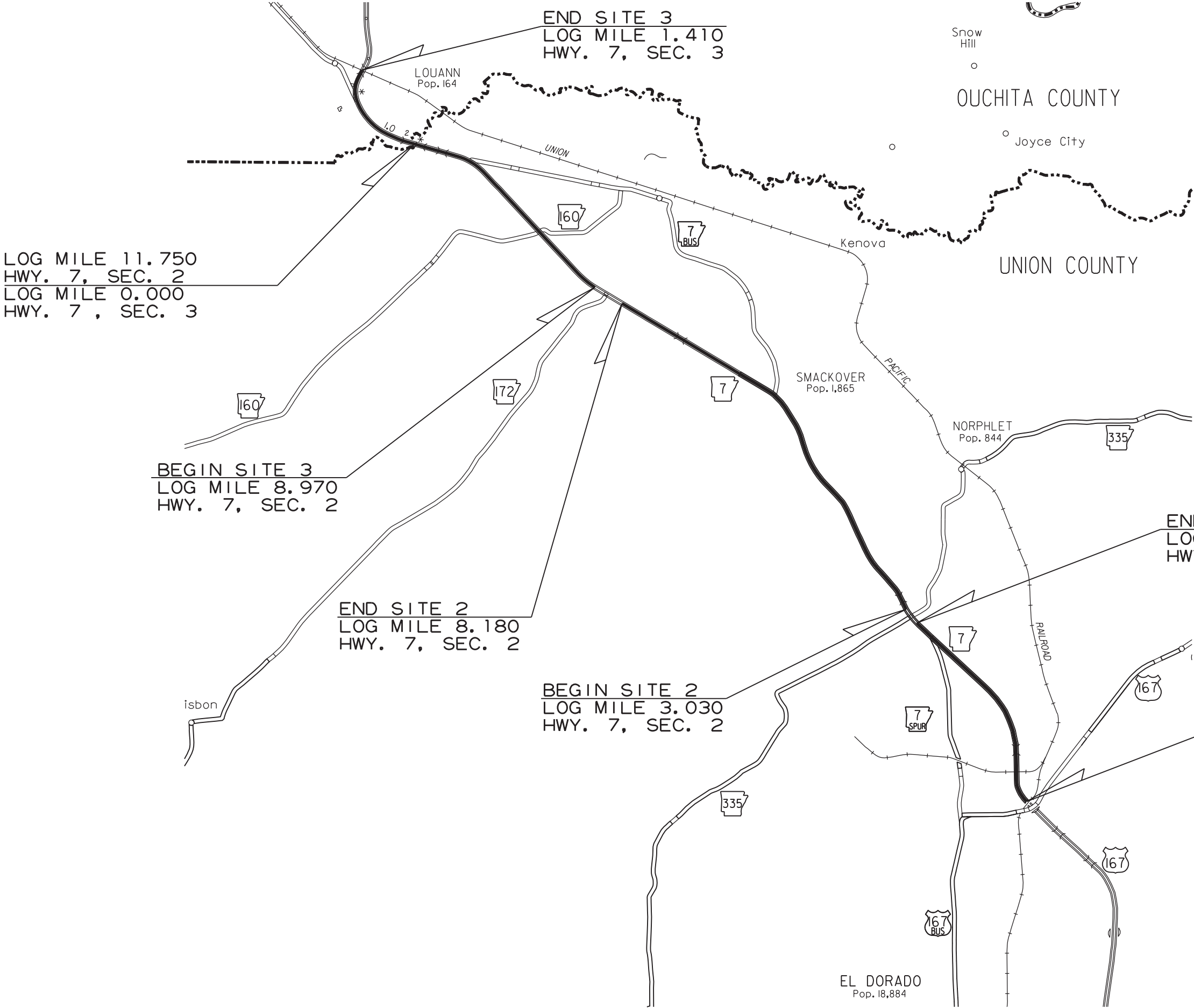
REVISIONS

DATE	REVISION	SHEET NUMBER
8/26/2024	GOVERNING SPECIFICATIONS WERE REVISED TO REMOVE "FLEXIBLE BEGINNING OF WORK - CALENDAR DAY CONTRACT" AND "SITE USE (A+C METHOD) - CALENDAR DAY CONTRACT" SPECIAL PROVISIONS; QUANTITIES FOR "APPROACH GUTTERS" WERE REVISED.	3, 23, 26
9/4/2024	THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS WERE REMOVED: "307-1 CEMENT", "308-1 CEMENT" 501-2 CEMENT", AND "802-4 CEMENT"; THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS WERE ADDED: "307-2 CEMENT TREATED BASE COURSE", "308-2 CEMENT STABILIZED CRUSHED STONE BASE COURSE", "501-3 PORTLAND CEMENT CONCRETE PAVEMENT", AND "802-5 CONCRETE FOR STRUCTURES".	3, 26

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	27	28
OUACHITA AND UNION COUNTY PLAN						



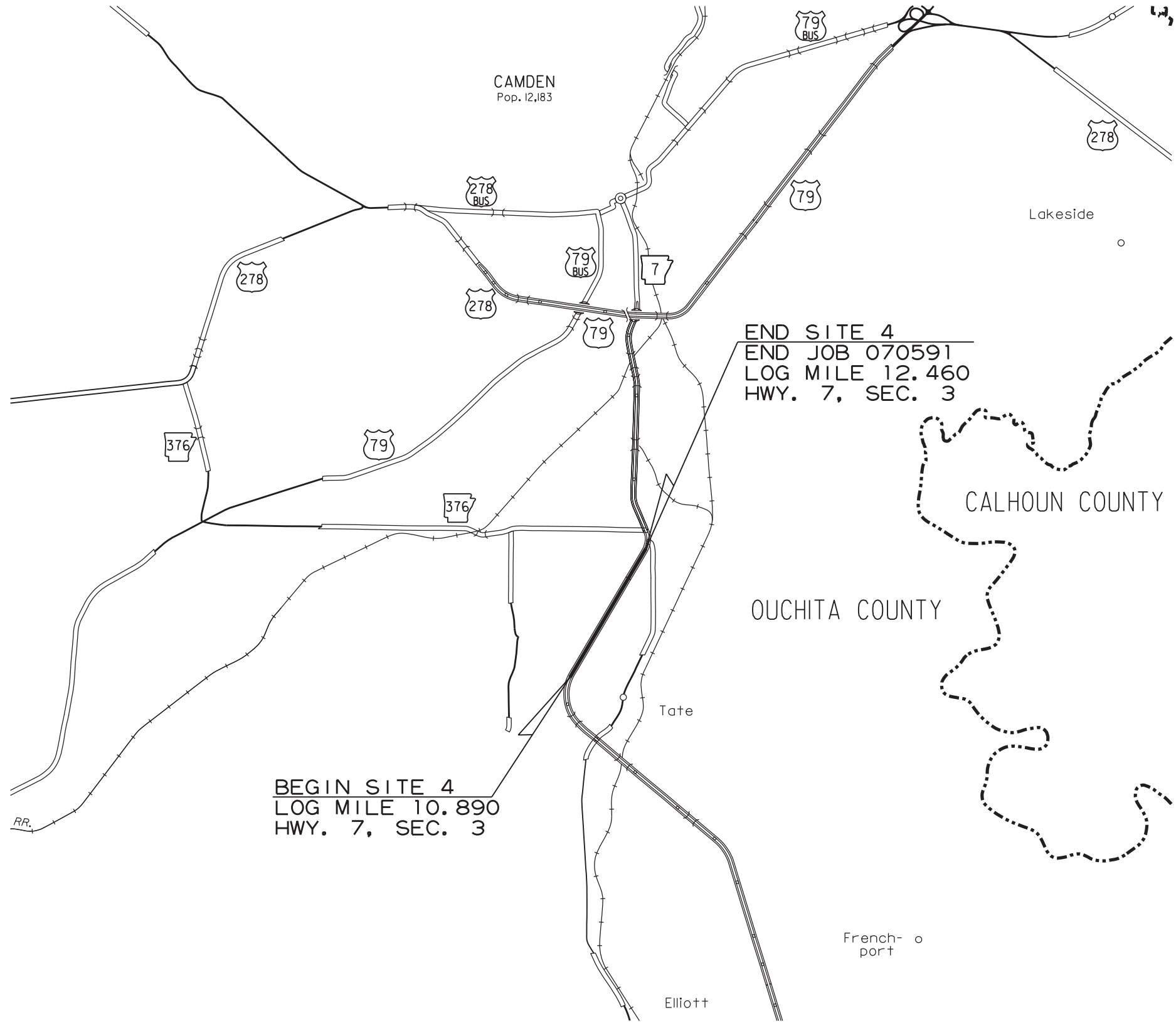
Digitally signed by Thomas N. Taegtmeier
Date: 2024.05.30

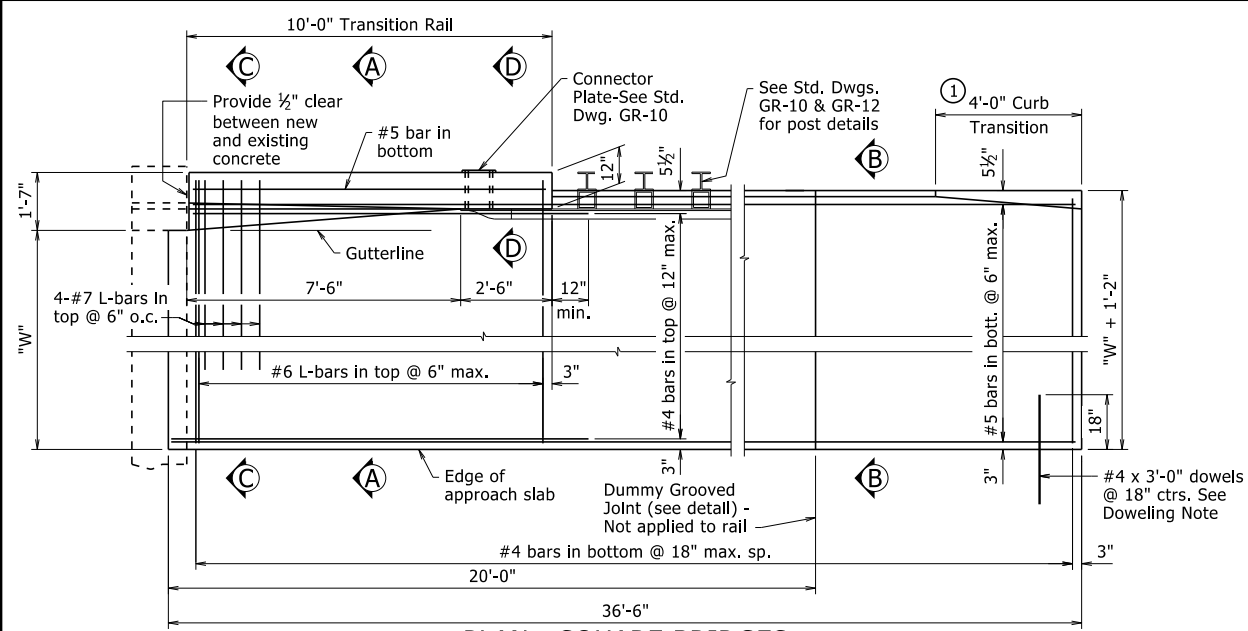


DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	070591	28	28
OUACHITA COUNTY PLAN						



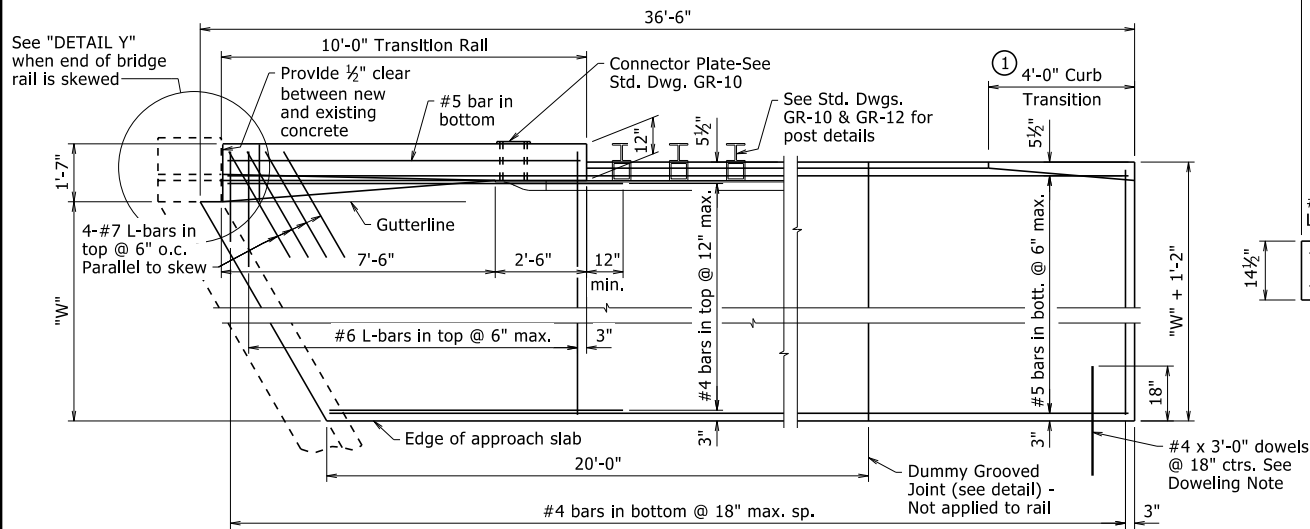
Digitally signed by Thomas N. Taegtmeier
Date: 2024.05.30





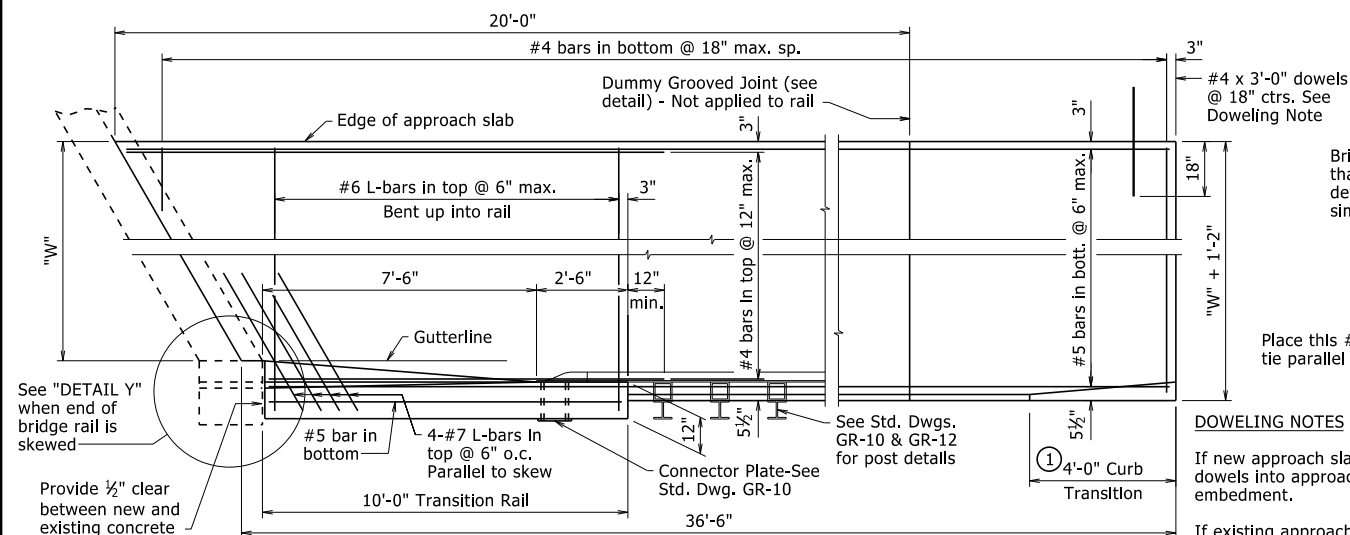
PLAN - SQUARE BRIDGES

3/8" = 1'-0"



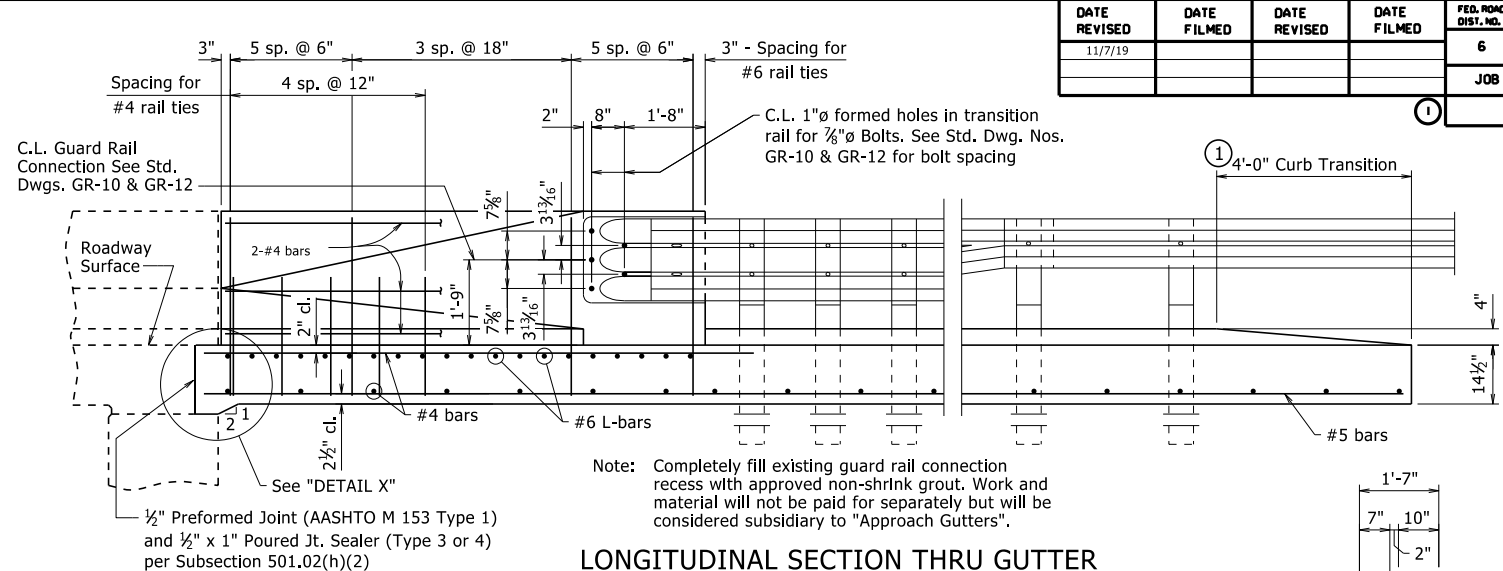
PLAN - SKEWED BRIDGES

3/8" = 1'-0"



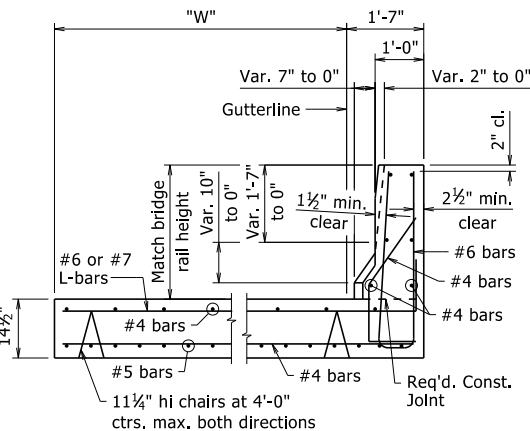
DUMMY GROOVED JOINT

No Scale



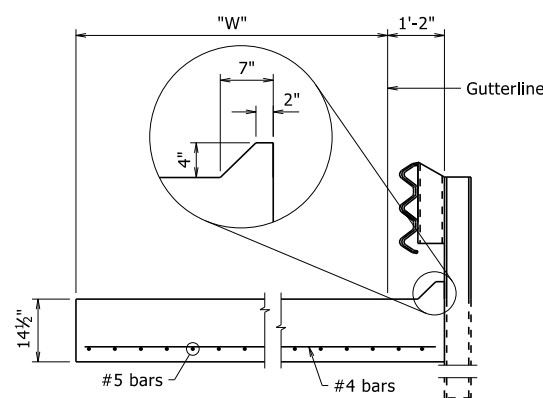
LONGITUDINAL SECTION THRU GUTTER

1/2" = 1'-0"



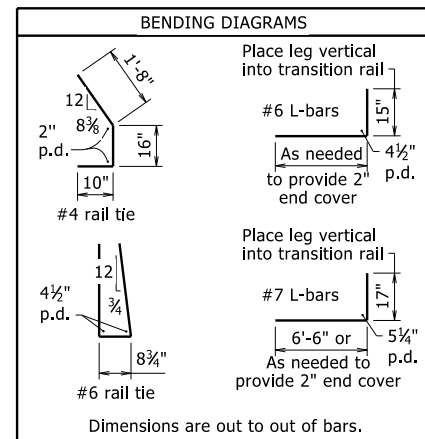
SECTION A-A

1/2" = 1'-0"



SECTION B-B

1/2" = 1'-0"



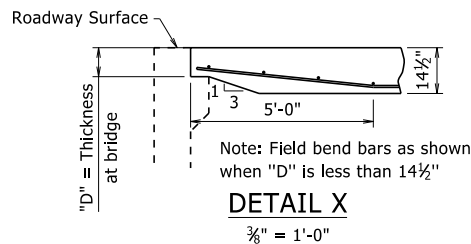
Revised and Redrawn. By: TMG
Checked By: CRE 11/7/2019

DOWELING NOTES

If new approach slab is used: Place dowels into approach slab using 18" embedment.

If existing approach slab is retained: Dowels shall be drilled and grouted 18" into existing slab. At the Contractor's option, existing dowels may be retained, cleaned and incorporated into new gutters. Work for drilling and grouting, or retaining and cleaning will not be paid for separately but will be considered subsidiary to "Approach Gutters".

Dowel bars, if required, will not be paid for separately, but will be considered subsidiary to other pay items.



DETAIL X

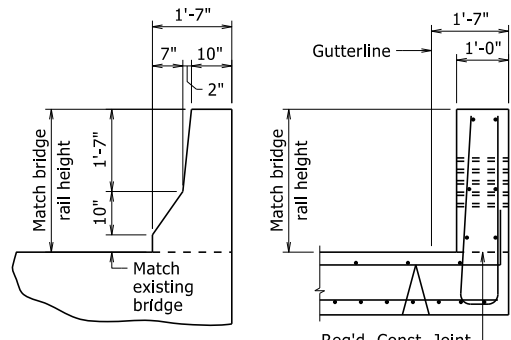
3/8" = 1'-0"

This document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on November 7, 2019. This copy is not a signed and sealed document.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
11/7/19				6	ARK.			
				JOB NO.				

Construct curb with height-transition as shown if drop inlet is not used at end of gutter.

Construct curb full height (no height-transition) if drop inlet is used at end of gutter. Curb height transition placed on drop inlet. See drop inlet details.



SECTION C-C

At End of Transition Rail
1/2" = 1'-0"

SECTION D-D

1/2" = 1'-0"

GENERAL NOTES

Concrete shall be Class S or S(AE) or mixture used for Portland Cement Concrete Pavement.

Reinforcing steel shall be Grade 60 (fy = 60,000 psi.) conforming to AASHTO M 31 or M 322, Type A, with mill test reports. Fabricate bar lengths to provide 2" minimum cover at each end.

Approach gutters will be measured and paid for in accordance with Section 504.

Preformed Joint and Poured Joint Sealer included in the item "Approach Gutters".

All longitudinal lines within the limits of horizontal curves shall be on curves concentric to C.L. Bridge. Adjustment to longitudinal bar lengths may be required. Transverse reinforcing shall be placed on radial lines to C.L. Bridge.

When this Standard Drawing is used as a retrofit for an existing bridge and an existing drop inlet is located within the Plan of the approach gutter, adjust the reinforcing as needed to facilitate construction of the approach gutter, unless otherwise noted.

APPROX. QUANTITIES FOR ONE SQUARE 36'-6" APPROACH GUTTER (For Information Only)

Concrete (cu. yd.)	("W" x 1.63) + 3.24
Reinforcing Steel (lb.)	("W" x 129) + 461

Variables: Units of "W" and "L" are in feet.

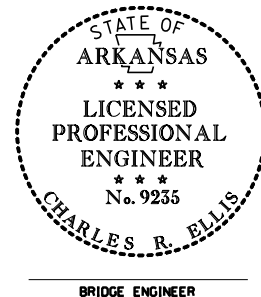
"W" = Distance from gutterline to edge of shoulder or edge of approach slab. "W" shall not be less than 3'-0" unless approach gutter is doweled into an approach slab or concrete pavement.

STANDARD DETAILS FOR TYPE 'PT' APPROACH GUTTERS (BRIDGES WITH CONCRETE PARAPET RAILING)

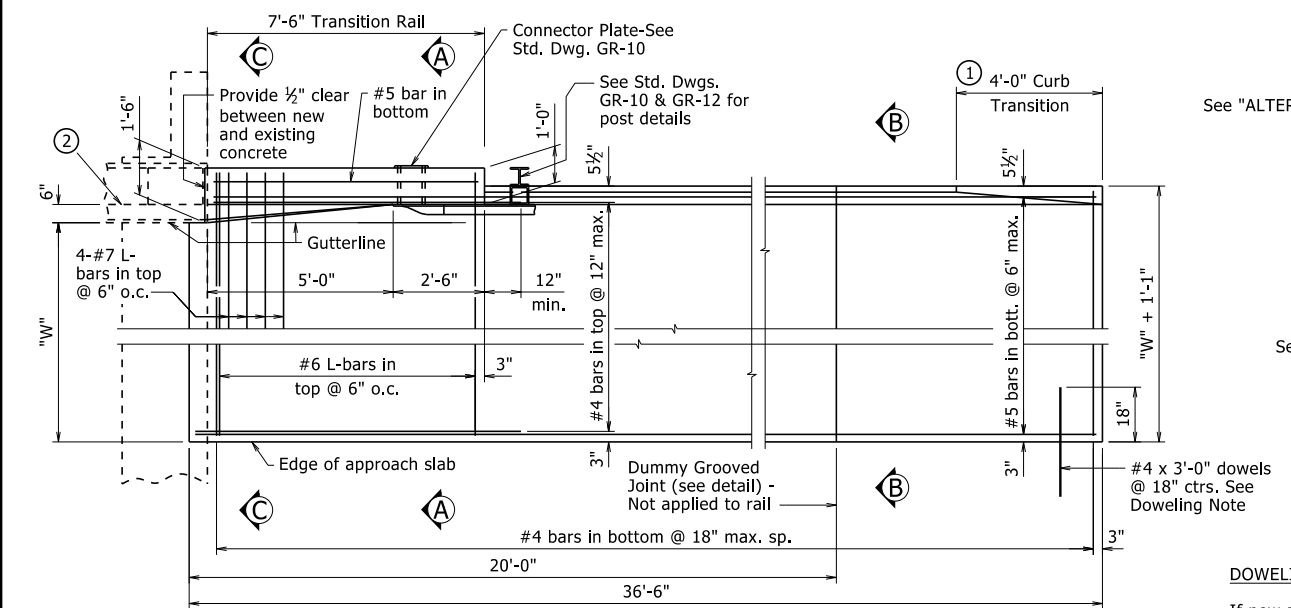
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 2/27/2014 FILENAME: b55035.dgn
CHECKED BY: KWK DATE: 2/27/2014 SCALE: AS NOTED
DESIGNED BY: STD DATE: -

DRAWING NO. 55035

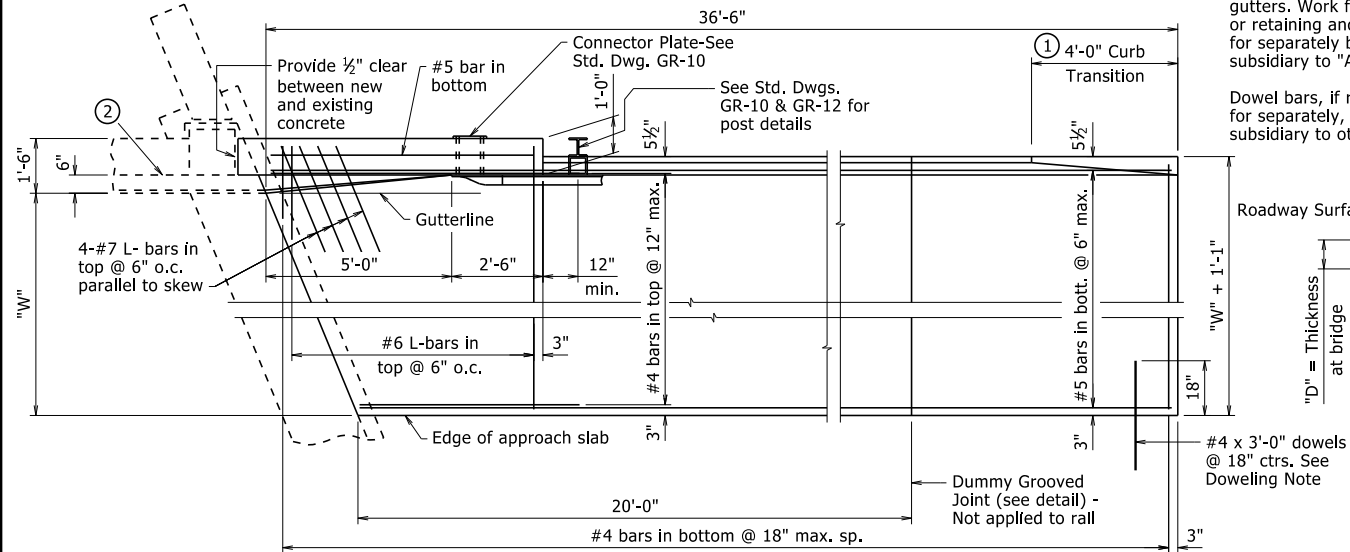


BRIDGE ENGINEER



PLAN - SQUARE BRIDGES

② Front face of concrete wall (Type A Rail) or front face of metal pipe or tubing (Types B, C, D or E Rail).



PLAN - SKEWED BRIDGES

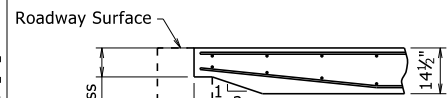
3/8" = 1'-0"

DOWELING NOTES

If new approach slab is used: Place dowels into approach slab using 18" embedment.

If existing approach slab is retained: Dowels shall be drilled and grouted 18" into existing slab. At the Contractor's option, existing dowels may be retained, cleaned and incorporated into new gutters. Work for drilling and grouting, or retaining and cleaning will not be paid for separately but will be considered subsidiary to "Approach Gutters".

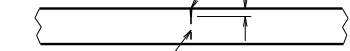
Dowel bars, if required, will not be paid for separately, but will be considered subsidiary to other pay items.



DETAIL X

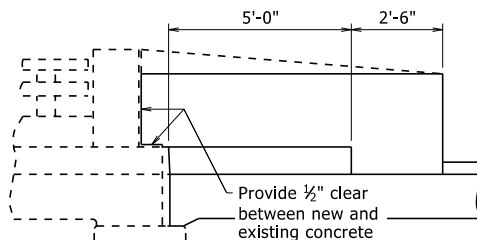
3/8" = 1'-0"

1/4" x 1" Poured Joint Sealer (Type 3 or 4) per Subsection 501.02(h)(2)



DUMMY GROOVED JOINT

No Scale



ALTERNATE DETAILS

NO SCALE

Bridge end may vary from that shown. Adjust gutter details as required to provide similar railing transition.

See "ALTERNATE DETAILS"

See "DETAIL X"

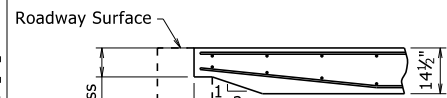
1/2" Preformed Joint (AASHTO M 153 Type 1) and 1/2" x 1" Poured Jt. Sealer (Type 3 or 4) per Subsection 501.02(h)(2)

DOWELING NOTES

If new approach slab is used: Place dowels into approach slab using 18" embedment.

If existing approach slab is retained: Dowels shall be drilled and grouted 18" into existing slab. At the Contractor's option, existing dowels may be retained, cleaned and incorporated into new gutters. Work for drilling and grouting, or retaining and cleaning will not be paid for separately but will be considered subsidiary to "Approach Gutters".

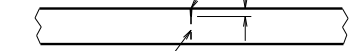
Dowel bars, if required, will not be paid for separately, but will be considered subsidiary to other pay items.



DETAIL X

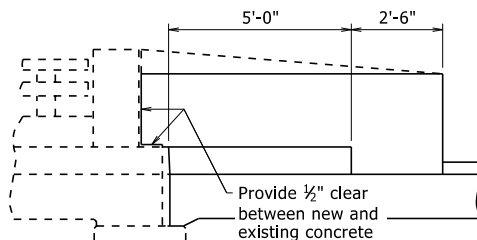
3/8" = 1'-0"

1/4" x 1" Poured Joint Sealer (Type 3 or 4) per Subsection 501.02(h)(2)



DUMMY GROOVED JOINT

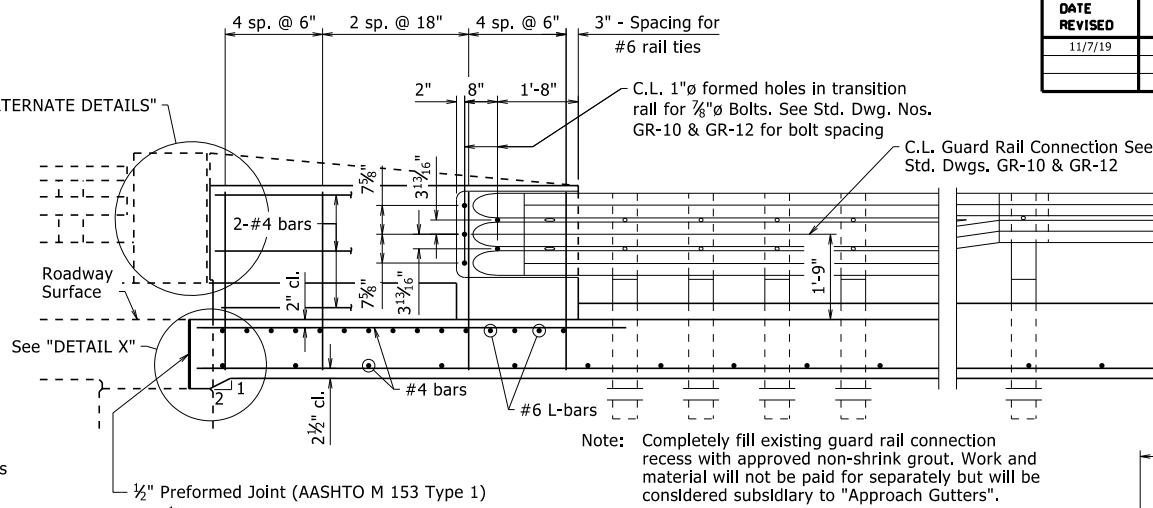
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ALTERNATE DETAILS

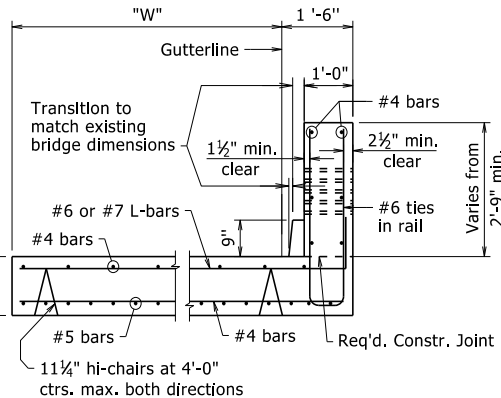
NO SCALE

Bridge end may vary from that shown. Adjust gutter details as required to provide similar railing transition.



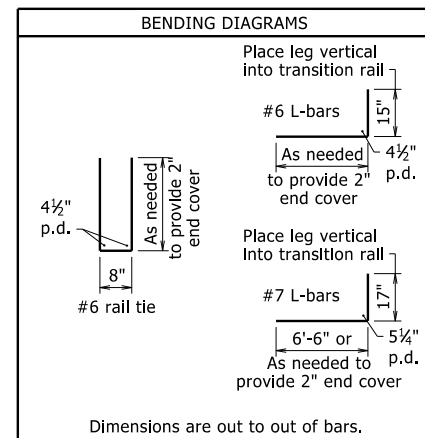
LONGITUDINAL SECTION THRU GUTTER

1/2" = 1'-0"



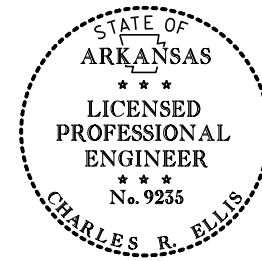
SECTION A-A

1/2" = 1'-0"



Dimensions are out to out of bars.

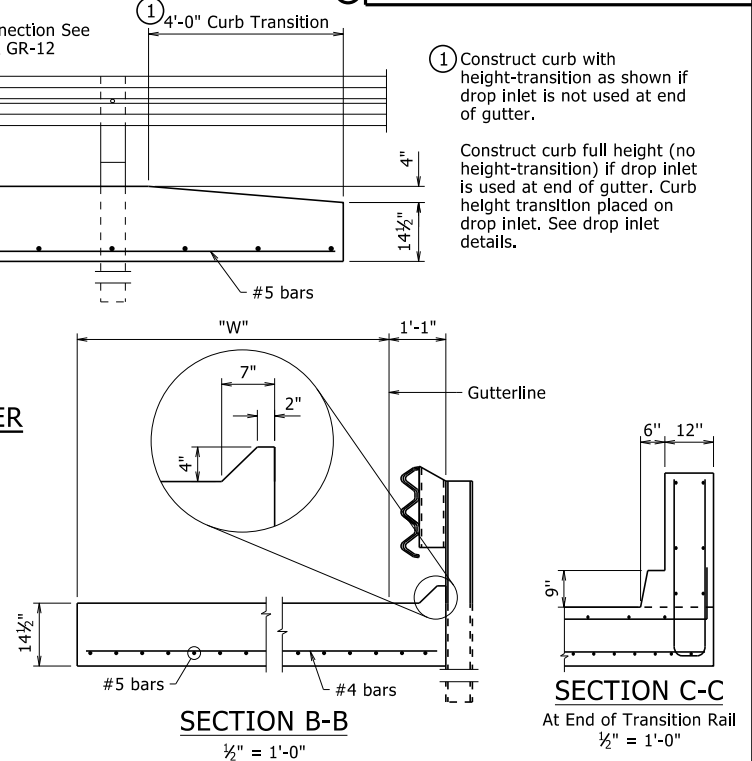
Revised and Redrawn. By: TMG
Checked By: CRE 11/7/2019



BRIDGE ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
11/7/19				6	ARK.			
				JOB NO.				

- TYPE AT GUTTERS - 55036



SECTION B-B

1/2" = 1'-0"

SECTION C-C

At End of Transition Rail

1/2" = 1'-0"

GENERAL NOTES

Concrete shall be Class S or S(AE) or mixture used for Portland Cement Concrete Pavement.

Reinforcing steel shall be Grade 60 (fy = 60,000 psi.) conforming to AASHTO M 31 or M 322, Type A, with mill test reports. Fabricate bar lengths to provide 2" minimum cover at each end.

Approach gutters will be measured and paid for in accordance with Section 504.

Preformed Joint and Poured Joint Sealer included in the item "Approach Gutters".

All longitudinal lines within the limits of horizontal curves shall be on curves concentric to C.L. Bridge. Adjustment to longitudinal bar lengths may be required. Transverse reinforcing shall be placed on radial lines to C.L. Bridge.

When this Standard Drawing is used as a retrofit for an existing bridge and an existing drop inlet is located within the Plan of the approach gutter, adjust the reinforcing as needed to facilitate construction of the approach gutter, unless otherwise noted.

APPROX. QUANTITIES FOR ONE SQUARE 36'-6" APPROACH GUTTER

(For Information Only)

Concrete (cu. yd.)	("W" x 1.65) + 2.80
Reinforcing Steel (lb.)	("W" x 128.1) + 318.5

Variables: Units of "W" are in feet.

"W" = Distance from gutterline to edge of shoulder or edge of approach slab. "W" shall not be less than 3'-0" unless approach gutter is doweled into an approach slab or concrete pavement.

STANDARD DETAILS FOR TYPE 'AT' APPROACH GUTTERS (BRIDGES WITH 6" CURBS & TYPE A, B, C, D OR E RAILING)

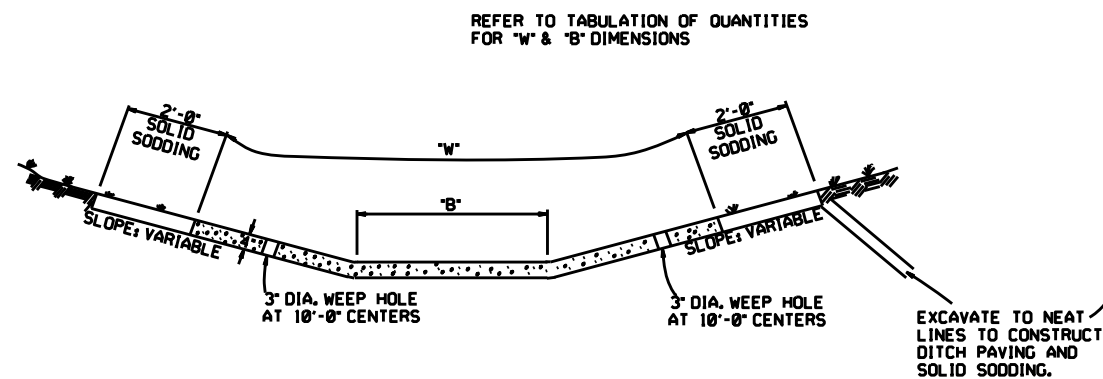
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

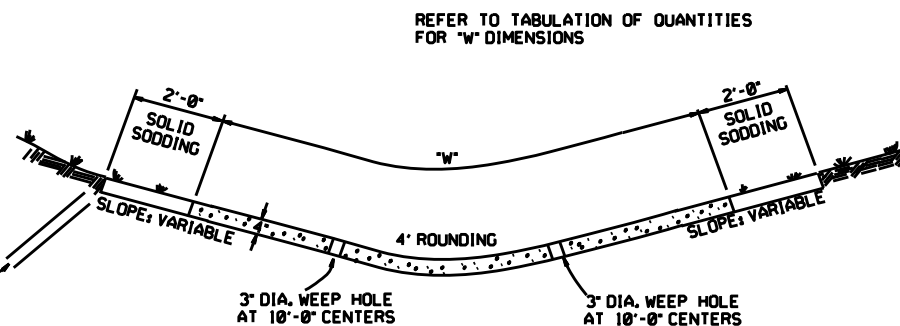
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CHECKED BY: KKW DATE: 2/27/2014 SCALE: AS NOTED
DESIGNED BY: STD. DATE: -

DRAWING NO. 55036

This document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on November 7, 2019. This copy is not a signed and sealed document.

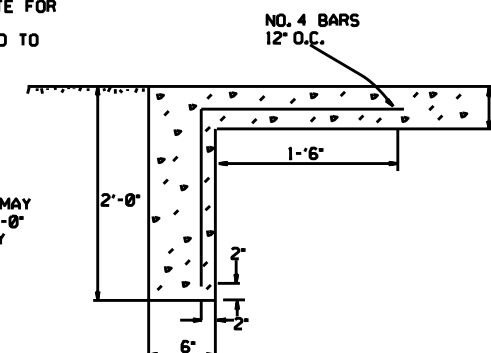


TYPE A

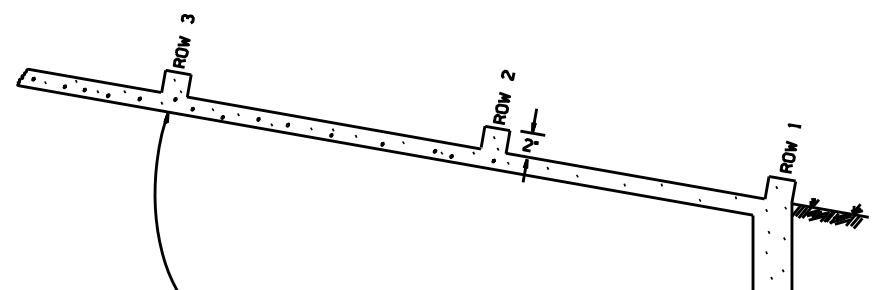


TYPE B

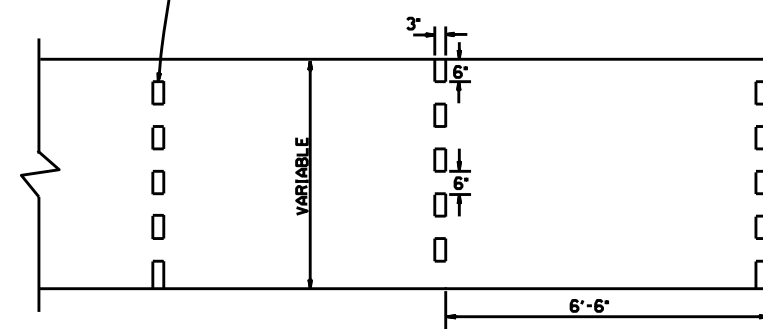
THE STEEL AND ADDITIONAL CONCRETE FOR THE WALLS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR "CONCRETE DITCH PAVING."



TOE WALL DETAIL FOR CONCRETE DITCH PAVING



ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.



ENERGY DISSIPATORS
(NO SCALE)

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.

SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

1' WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

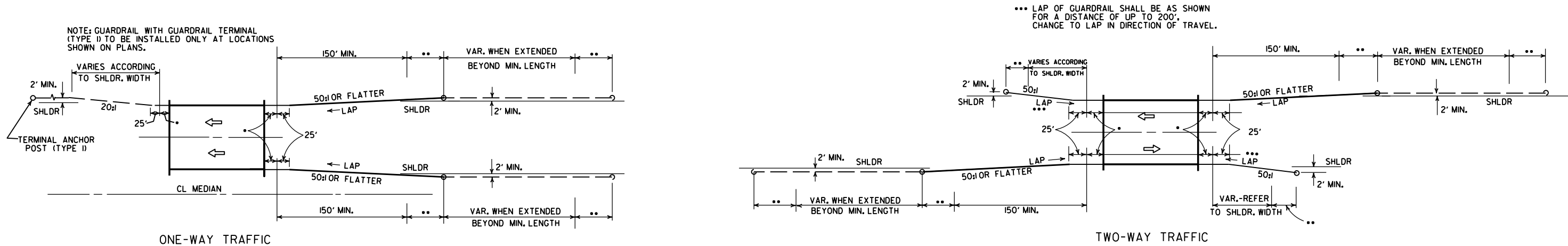
DATE	REVISION	DATE FILM'D
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-88	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	632-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	639-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED	
10-2-72	TYPED A & B	
	REVISED AND REDRAWN	508-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

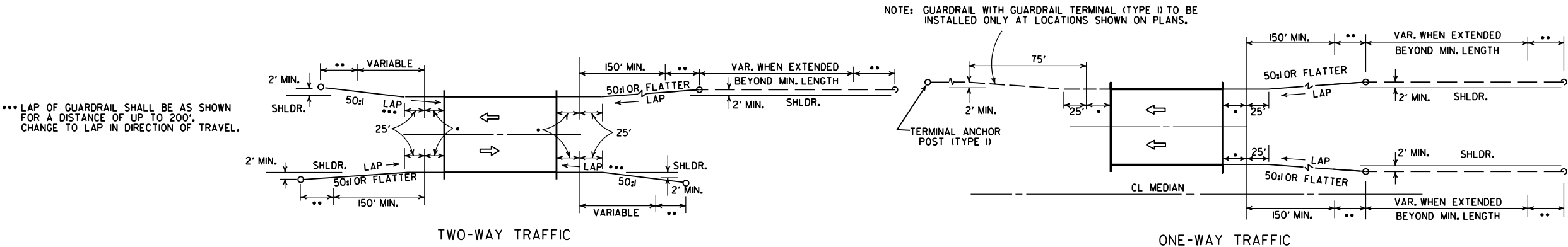
CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

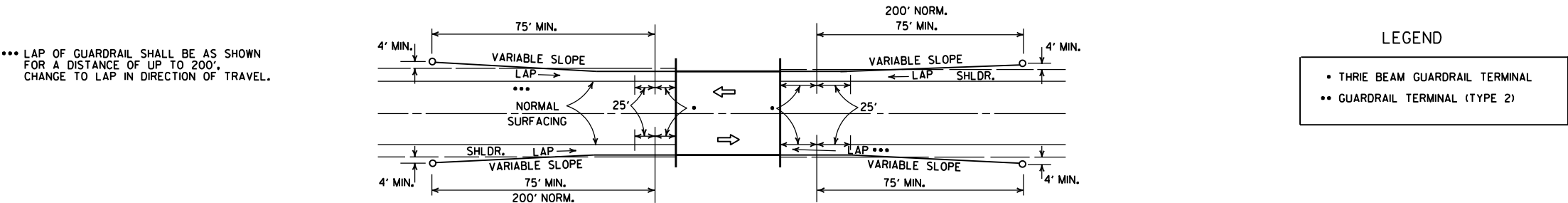
STANDARD DRAWING GR-6



METHODS OF INSTALLATION OF GUARDRAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

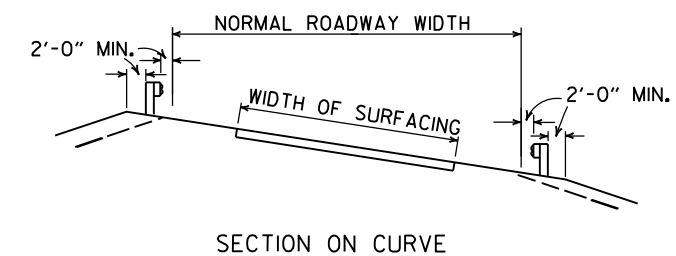
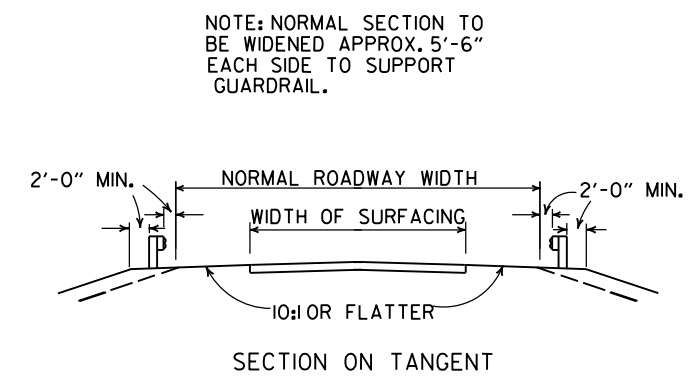
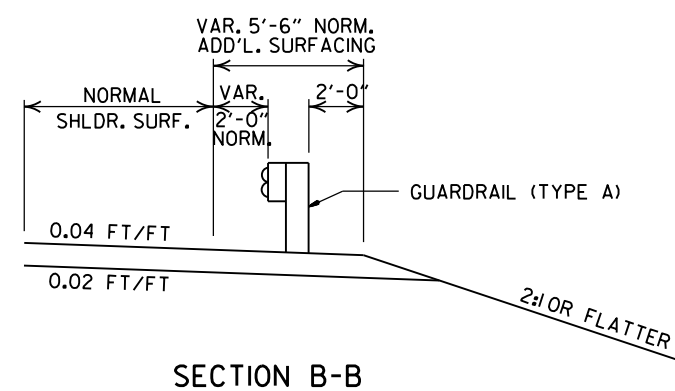
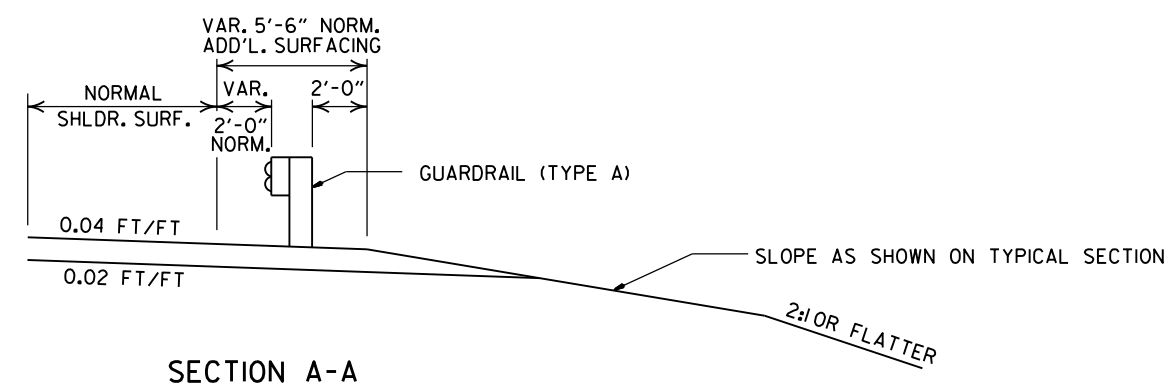
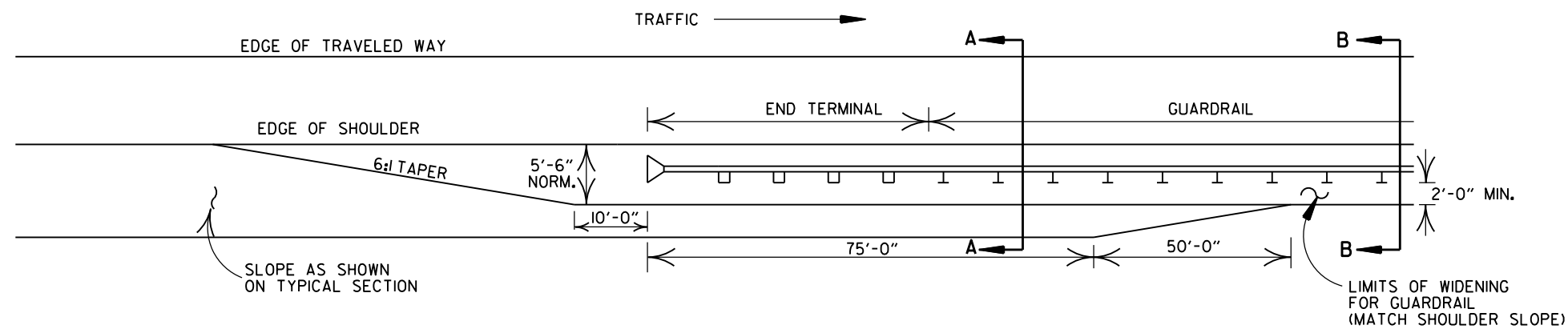


METHOD OF INSTALLATION OF GUARDRAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)



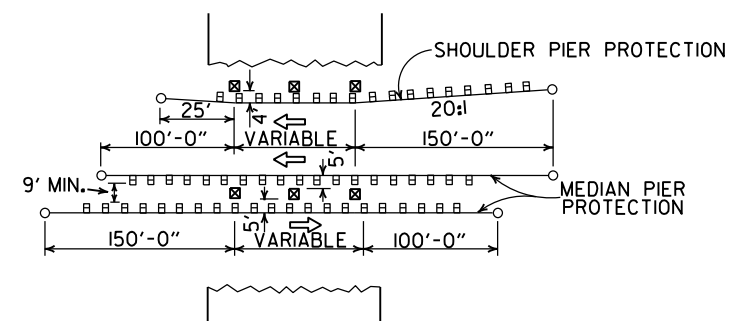
METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERMINAL (TYPE 1) (FULL SHOULDER WIDTH OR LESS BRIDGES)

			ARKANSAS STATE HIGHWAY COMMISSION
11-07-19	RENUMBERED AND RENAMED		GUARDRAIL DETAILS
4-17-08	REVISED LAYOUTS		
11-10-05	REMOVED GUARDRAIL NOTES AND DETAILS		
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERM. (TY. 1)		
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00	STANDARD DRAWING GR-8
6-26-97	REVISED LAYOUT		
10-1-92	REDRAWN & REVISED	10-1-92	
10-9-87	ADDED NOTE		
DATE	REVISION	DATE	FILM



DETAILS OF WIDENING FOR GUARDRAIL

DETAILS SHOWING POSITION
OF GUARDRAIL ON HIGHWAY



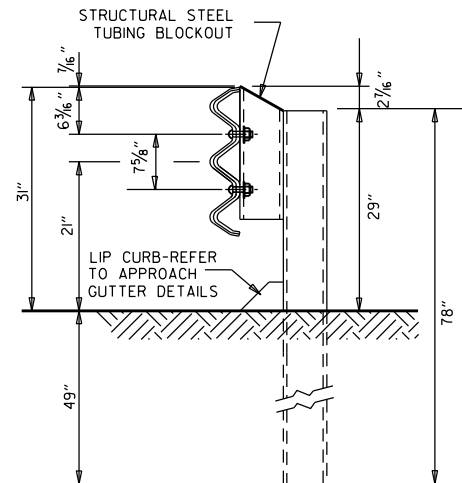
			ARKANSAS STATE HIGHWAY COMMISSION
			GUARDRAIL DETAILS
11-07-19	RENUMBERED AND RENAMED		STANDARD DRAWING GR-9
4-17-08	MINOR REVISION		
11-10-05	DRAWN		
DATE	REVISION	DATE FILM	



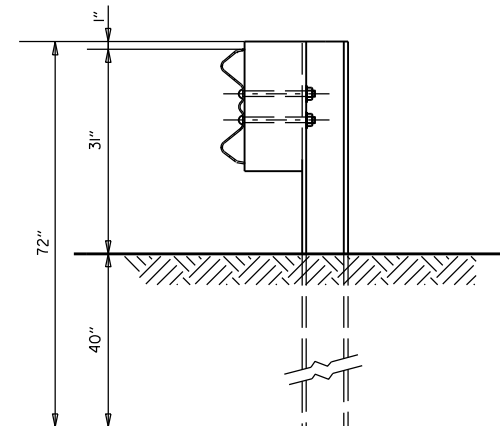
CONNECTOR PLATE

THREE BEAM RAIL SPLICE AT POST

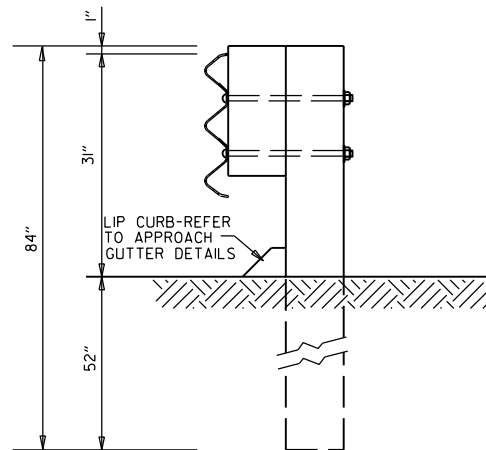
II-07-19	RENAMED AND REVISED REFERENCES		
II-16-17	REVISED TRANSITION SECTION, GUARD RAIL HEIGHT, AND GENERAL NOTES; MOVED THREE BEAM GUARD RAIL CONNECTIONS AT BRIDGES ENDS TO STD. DRWG. GR-12		
07-14-10	RAISED HEIGHT OF W-BEAM 1"		
II-29-07	ADDED PLASTIC BLOCKOUTS		ARKANSAS STATE HIGHWAY COMMISSION
II-10-05	ADDED NOTE FOR ATTACHING STEEL BLOCKOUT		
II-18-04	REVISED GENERAL NOTES		
10-9-03	REVISED GENERAL NOTES		
04-10-03	REVISED GENERAL NOTES		GUARDRAIL DETAILS
08-22-02	REVISED NOTE (2)		
06-29-00	MOVED DIMENSION LINES		
05-18-00	ADDED NOTE		
03-30-00	DRAWN & ISSUED		STANDARD DRAWING GR-10
DATE	REVISION	FILMED	



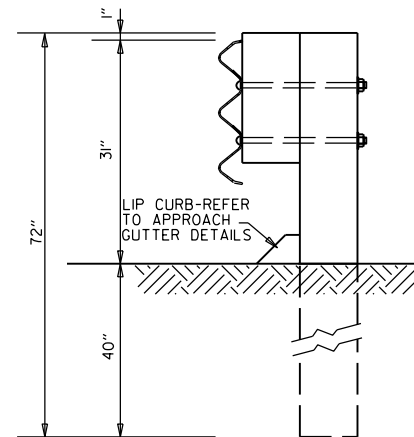
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT
AND STEEL POST
POSTS 1-7



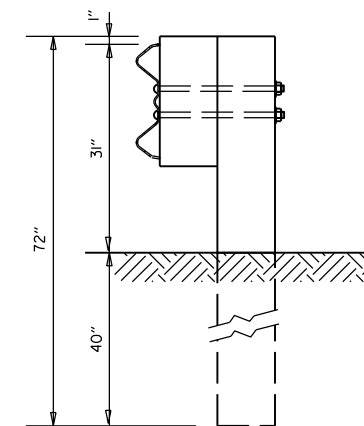
W-BEAM TO THRIE BEAM TRANSITION RAIL
WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUTS & WOOD POSTS
POSTS 1-6



THRIE BEAM RAIL
WITH WOOD OR PLASTIC
BLOCKOUT & WOOD POST
POST 7



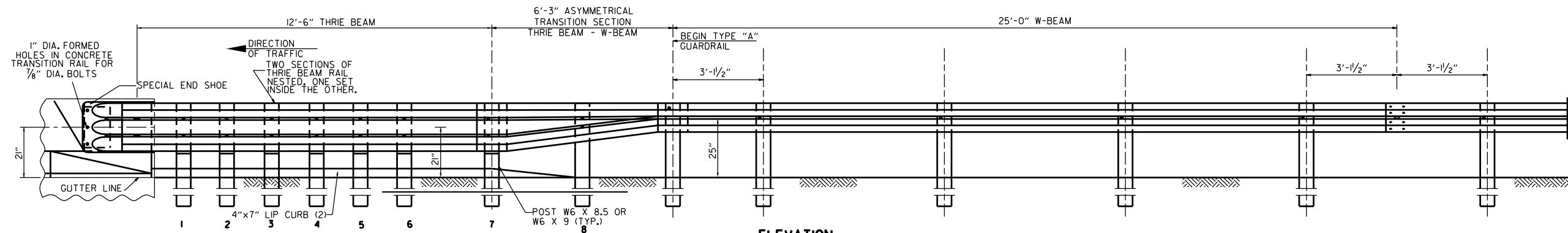
W-BEAM TO THRIE BEAM
TRANSITION RAIL WITH WOOD OR
PLASTIC BLOCKOUT & WOOD POST
POST 8

GENERAL NOTES:

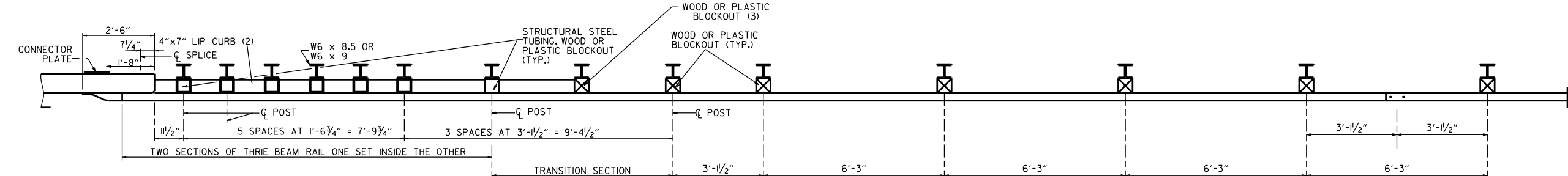
RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 350 f SOUTHERN PINE.

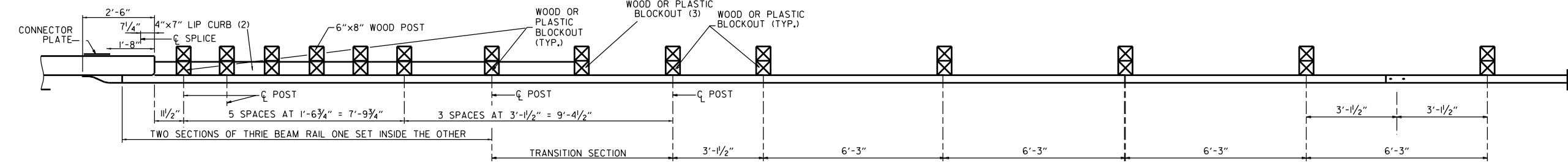
			ARKANSAS STATE HIGHWAY COMMISSION
			GUARDRAIL DETAILS
11-07-19	RENAMED		
11-16-17	REVISED GUARDRAIL HEIGHT, CHANGED STD. DWG. NUMBER FROM GR-10A TO GR-II		STANDARD DRAWING GR-II
07-14-10	REVISED POST 8 DIMENSIONS		
11-29-07	ADDED PLASTIC BLOCKOUTS		
08-22-02	REVISED LIP CURB NOTE		
03-30-00	DRAWN & ISSUED		
DATE	REVISION	FILMED	



ELEVATION



PLAN



PLAN

- (1) VERIFY BOLT SPACING FROM RAIL TRANSITION PRODUCER.
(2) REFER TO APPROACH GUTTER DETAILS.
(3) LENGTH OF BLOCKOUT ON POST 8 TO BE MODIFIED TO FIT RAIL WIDTH.

THRIE BEAM GUARDRAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE I.

RAIL POSTS SHALL BE SET PERPENDICULAR TO THE ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION.

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.

ALL LAP SPLICES, INCLUDING SPECIAL END SHOES, SHALL BE MADE IN THE DIRECTION SHOWN ON STANDARD DRAWINGS GR-8 & GR-13.

REFER TO STD. DRWG. GR-II FOR POST DETAILS.

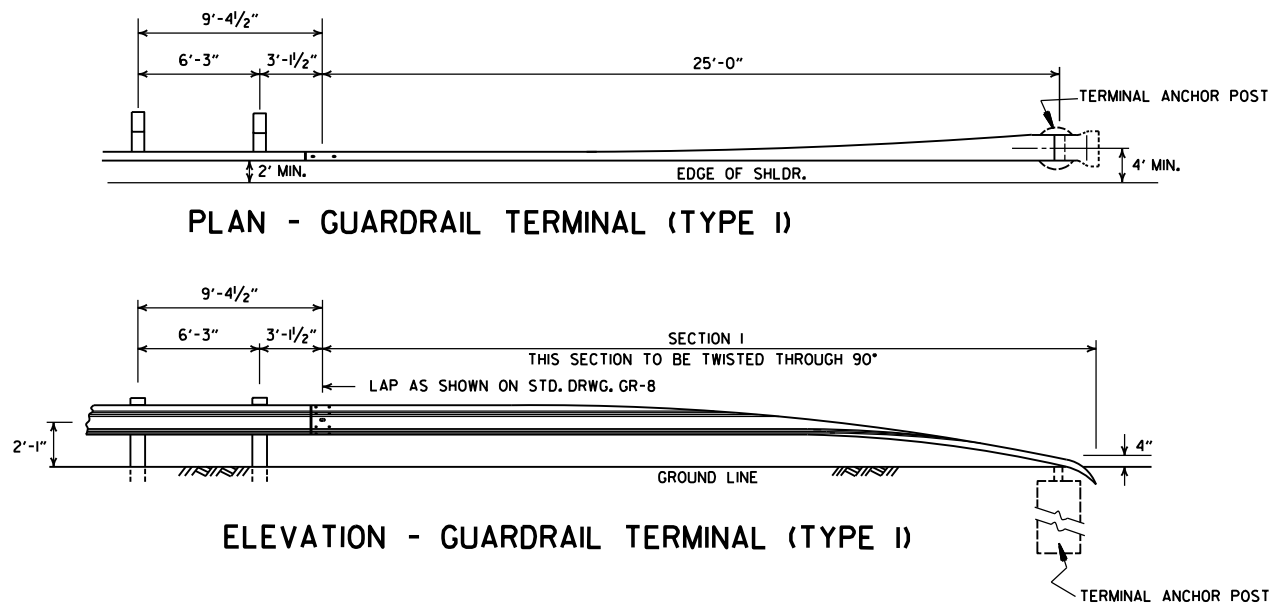
USE THRIE BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB.

THRIE BEAM POSTS SHALL BE SAME MATERIAL AS W-BEAM POSTS FOR ENTIRE JOB.

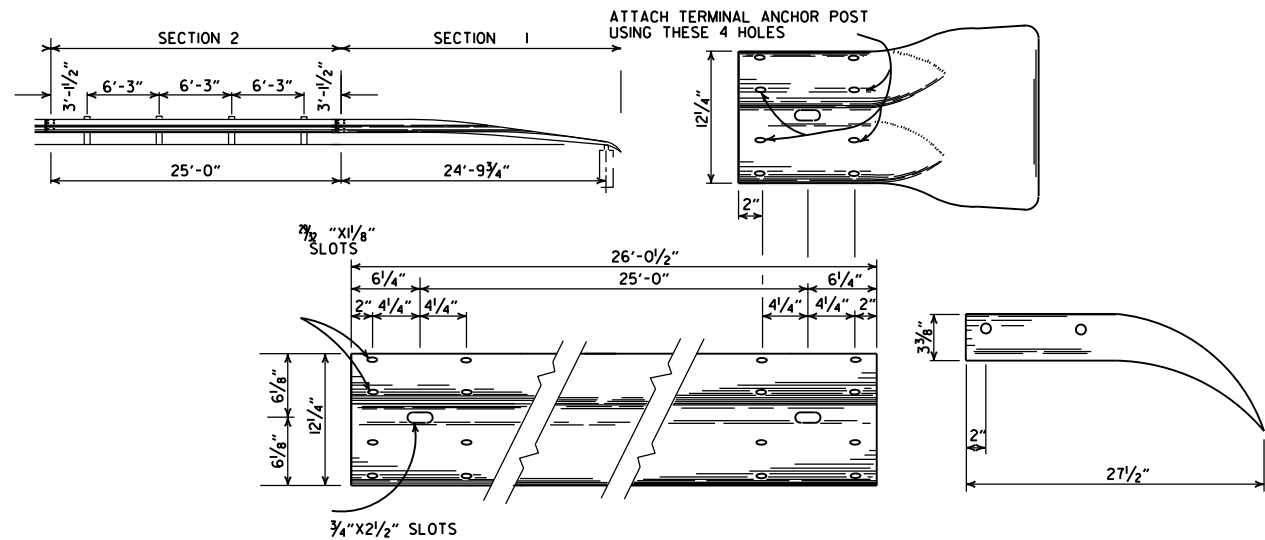
POSTS SHALL NOT BE PLACED AT SPLICE LOCATIONS ALONG W-BEAM RAILS.

WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

			ARKANSAS STATE HIGHWAY COMMISSION
			GUARDRAIL DETAILS
05-14-20	REVISED NOTES		
11-07-19	RENAMED & REVISED REFERENCES		
11-16-17	RE-DRAWN FROM STD. DWG. GR-10 & ISSUED		
DATE	REVISION	FILMED	STANDARD DRAWING GR-12

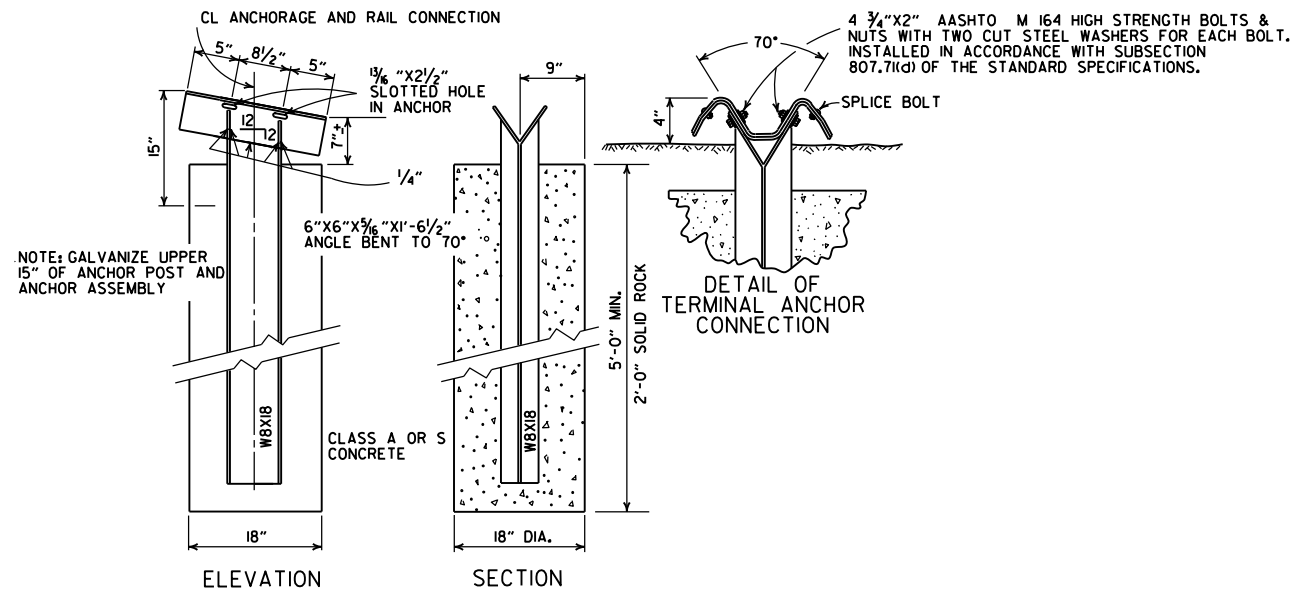


NOTE: SECTIONS 1 AND 2 OF GUARDRAIL TERMINAL SHALL BE PAID FOR AT THE PRICE BID PER LINEAR FOOT OF THE TYPE OF GUARDRAIL SPECIFIED.



SECTION 1

TERMINAL SECTION

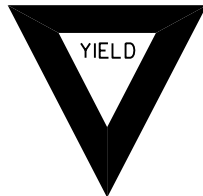
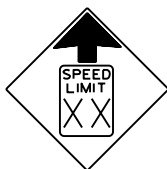
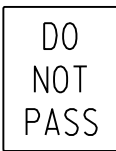
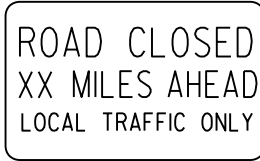
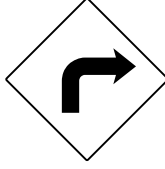
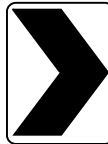
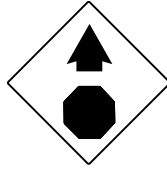
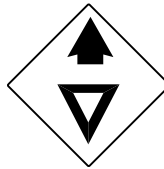
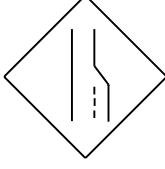
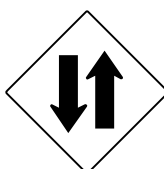
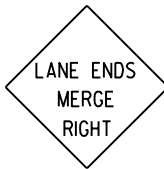
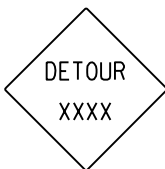
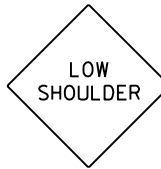
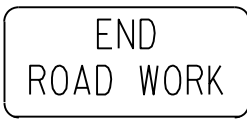
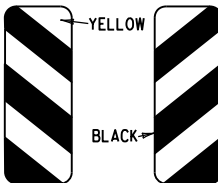
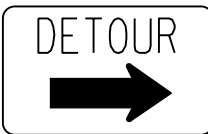
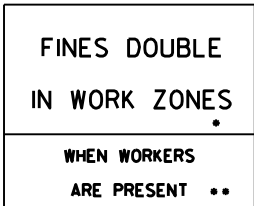


NOTE: GALVANIZE UPPER 15" OF ANCHOR POST AND ANCHOR ASSEMBLY

NOTE: RAIL MEMBERS MAY BE BOLTED TO ANGLE AT TERMINAL ANCHOR AND THE TWO ASSEMBLIES POSITIONED TO PROPER ALIGNMENT PRIOR TO PLACING CONCRETE AROUND 8 W/ 17 POST IF CONTRACTOR SO DESIRES.

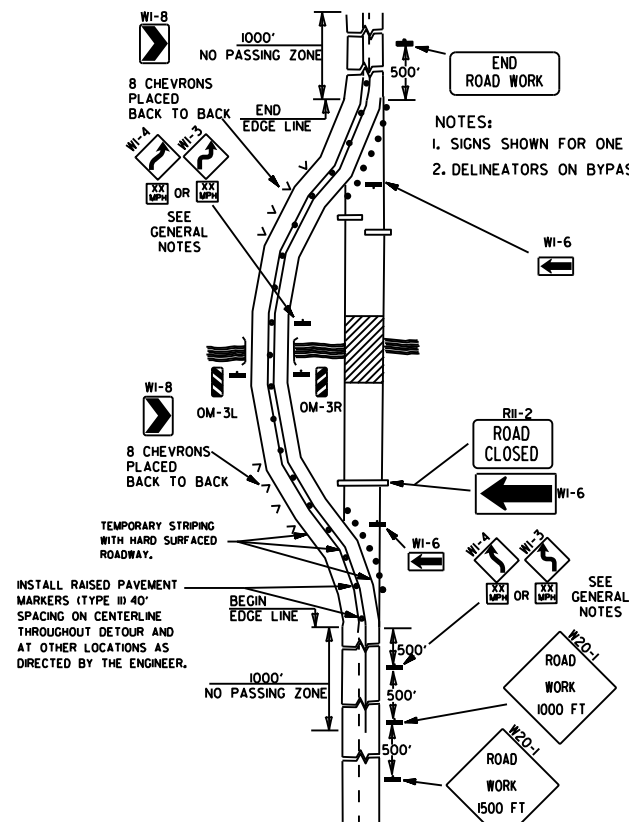
DETAIL OF TERMINAL ANCHOR POST (TYPE I)

11-07-19	RENAMED & REVISED REFERENCE.		ARKANSAS STATE HIGHWAY COMMISSION
11-16-17	REVISED GUARDRAIL HEIGHT AND LOCATION OF POSTS		GUARDRAIL DETAILS
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"		
06-26-97	REVISED LAP NOTE		
10-18-96	REVISED ASTM REF. TO AASHTO		
11-03-94	DIMENSION TERMINAL DETAIL		
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92	STANDARD DRAWING GRT-1
10-01-92	DRAWN & ISSUED	10-1-92	
DATE	REVISION	FILMED	

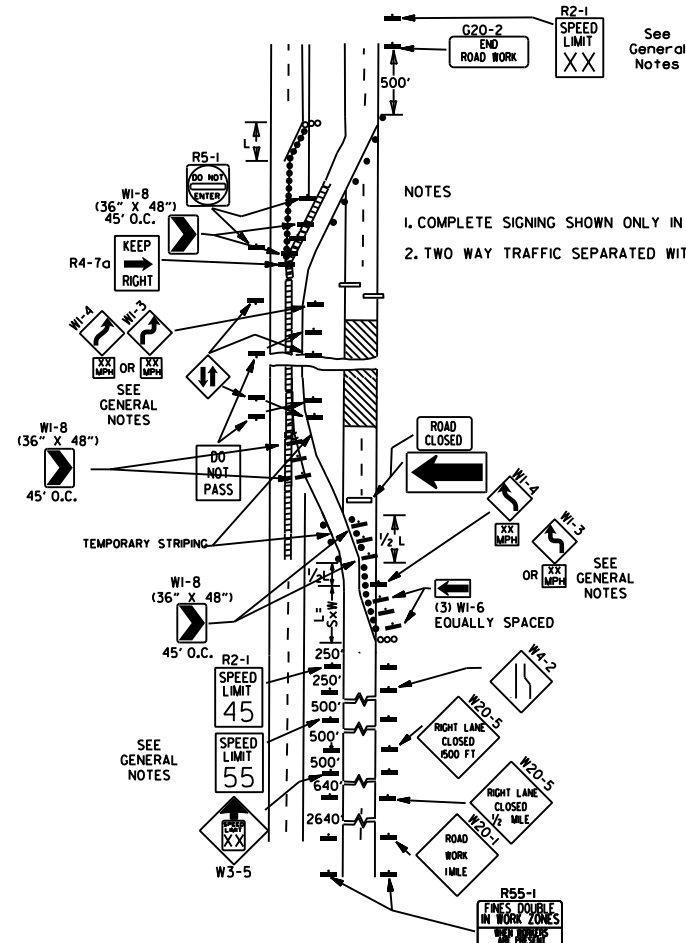
RI-I  STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"	RI-2  STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"	R2-I  STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"	W3-5  STD. 36"x36" EXPWY. 48"x48" FWY. 48"x48"	W3-5a  STD. 36"x36" EXPWY. 48"x48" FWY. 48"x48"	R4-I  STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"	R4-2  STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"	ADVANCE DISTANCES (XXXX) 500 FT 1/2 MILE 1000 FT 3/4 MILE 1500 FT 1 MILE AHEAD GENERAL NOTES: 1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION. 2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER. 3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED. 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE. 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3. 6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE. 7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS. 8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS. 9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT. 10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN. • NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.
R5-I  STD. 30"x30" EXPWY. 36"x36" SPECIAL 48"x48"	R1I-2  48"x30"	R1I-3A  60"x30"	R1I-4  60"x30"	W2I-5a  STD. 36"x36" FWY. 48"x48"	W1-I  STD. 36"x36" FWY. 48"x48"	W1-2  STD. 36"x36" FWY. 48"x48"	
W1-3  STD. 48"x48"	W1-4  STD. 48"x48"	W1-6  STD. 48"x24" SPECIAL 60"x30"	W1-8  STD. 18"x24" SPECIAL 24"x30" EXPWY. 30"x36" FWY. 36"x48"	W3-I  STD. 36"x36" SPECIAL 48"x48"	W3-2  STD. 36"x36" SPECIAL 48"x48"	W4-2  STD. 36"x36" FWY. 48"x48"	
W5-I  STD. 36"x36" SPECIAL 48"x48"	W6-3  EXPWY. 36"x36" SPECIAL 48"x48"	W8-7  EXPWY. 36"x36" FWY. 48"x48"	W9-2  STD. 36"x36" FWY. 48"x48"	W13-I  STD. 24"x24"	W20-I  STD. 48"x48"	W20-2  STD. 48"x48"	W20-3  STD. 48"x48"
W20-4  STD. 48"x48"	W20-5  STD. 48"x48"	W20-7a  18" 500 FEET 24" W16-2 STD. 36"x36" FWY. 48"x48"	W2I-2  STD. 30"x30" SPECIAL 36"x36"	W2I-5  STD. 30"x30" SPECIAL 36"x36"	W24-I  STD. 36"x36"	W1-4b  STD. 48"x48"	R56-I  STD. 18"x18"
W8-II  STD. 36"x36" FWY. 48"x48"	W8-9  STD. 36"x36" FWY. 48"x48"	G20-I  60"x24"	G20-2  48"x24"	OM-3L OM-3R  12"x36"	M4-9  STD. 30"x24" SPECIAL 48"x36" SPECIAL 60"x48"	M4-10  48"x18"	R55-I  36"x60" • USE 6" C LETTERS •• USE 4" D LETTERS

II-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W2I-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILMED

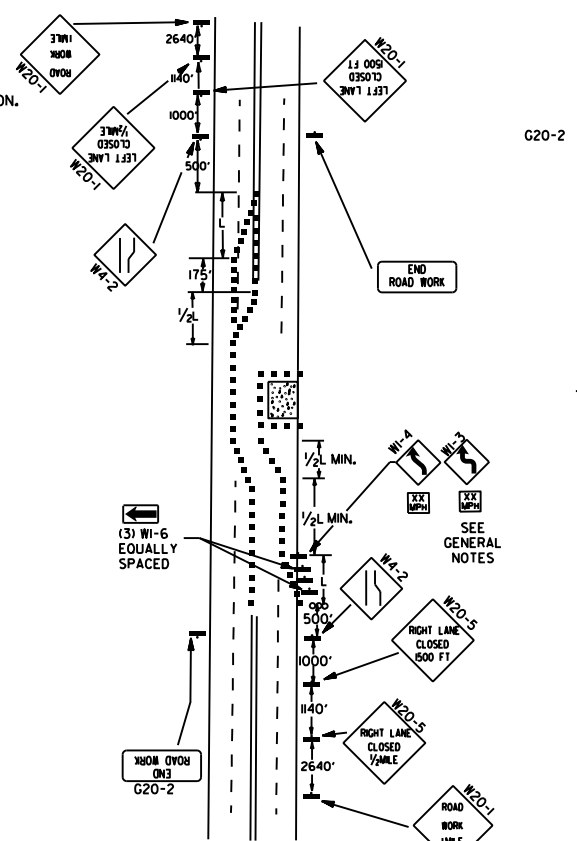
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-1



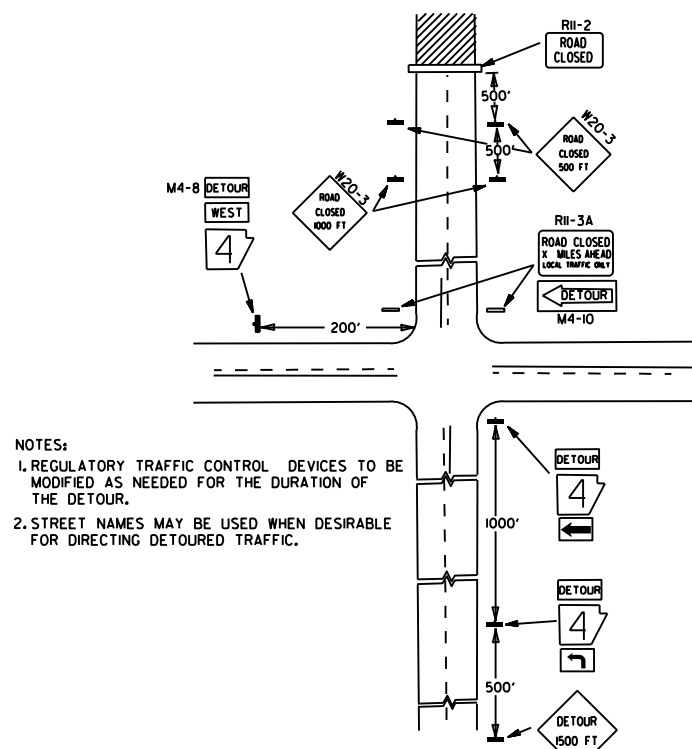
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



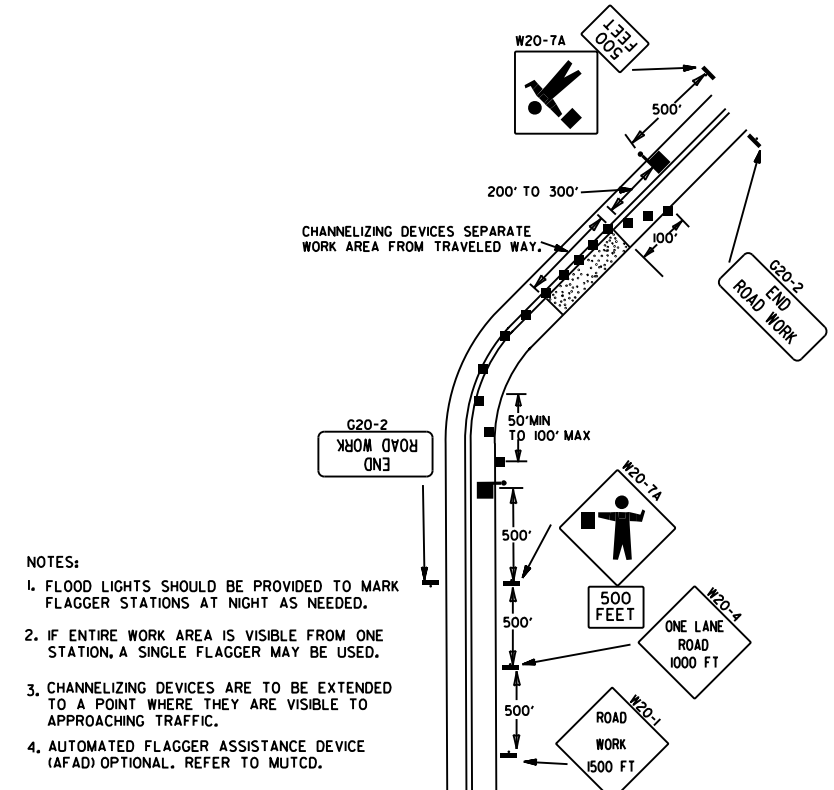
(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



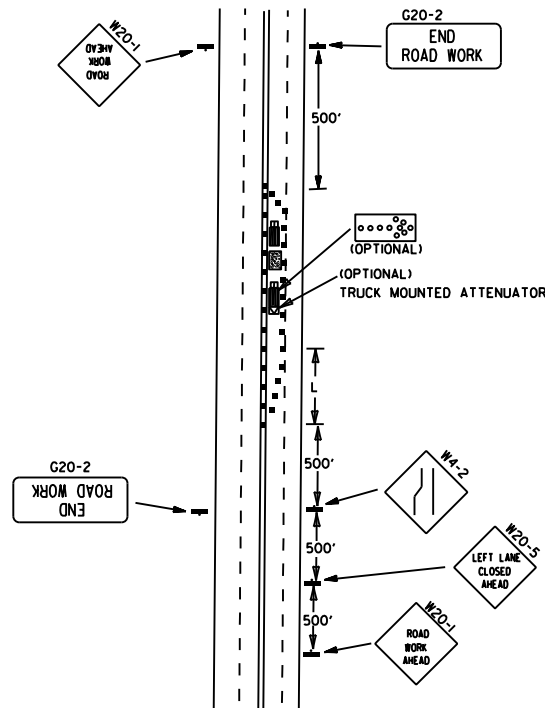
(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



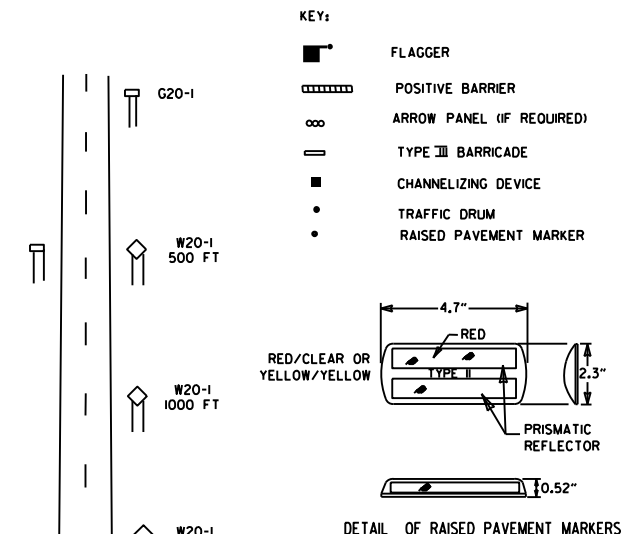
(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



(E) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

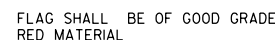
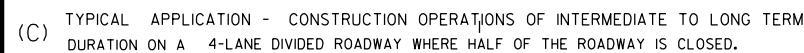
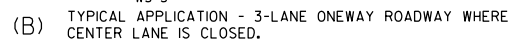
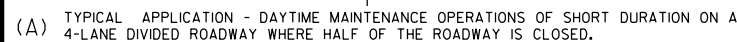


(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.



- GENERAL NOTES:
- THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
 - WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1(45)MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
 - WHEN THE EXISTING SPEED LIMIT IS 65MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 55MPH, THE R2-1(65) SHALL BE OMITTED. ADDITIONAL R2-1(55)MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1 MILE INTERVALS. AT THE END OF THE WORK AREA A R2-1(XX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
 - THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
 - WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
 - PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
 - TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
 - DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
 - ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

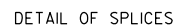
05-20-21	REVISED NOTE 7	
11-07-19	REVISED NOTE 1, ADDED NOTE 9	
9-2-15	REVISED NOTE 2, ADDED NOTE 8, REVISED DRAWING (A) & REPLACED R2-5A WITH W3-5	
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	
DATE	REVISION	FILMED



NOTES: USE SPLICES ONLY WHEN NECESSARY
FOR INSTALLATION. TYPICAL INSTALLATION
SHOULD HAVE NO SPLICES (SEE STD. DRAWING
NO. SHS-2)

NORMAL INSTALLATIONS WILL REQUIRE
1/4" DIA. BOLTS TO MOUNT SIGNS TO POST
AND 5/16" DIA. BOLTS TO ASSEMBLE THE
VARIOUS POST SUPPORTS. EACH OF THESE
BOLTS SHALL BE CARRIAGE BOLTS.

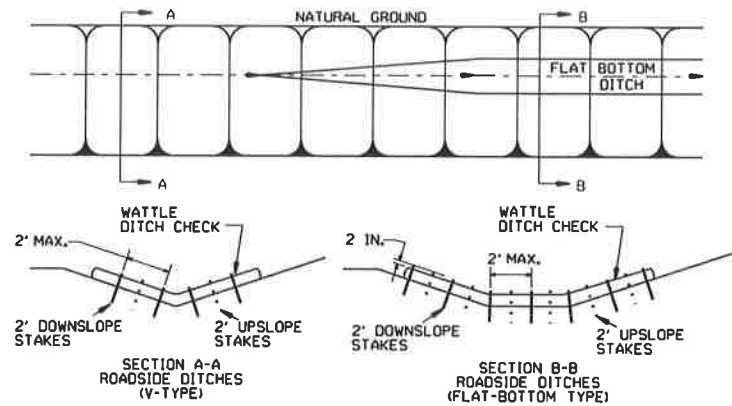
SIGN POSTS SHALL BE PAINTED GREEN;
SIGNS SHALL NOT BE PAINTED,
AND ALL SIGN POSTS SHALL BE PLUMB.



REVISION	FILM
ARKANSAS STATE HIGHWAY COMMISSION STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	

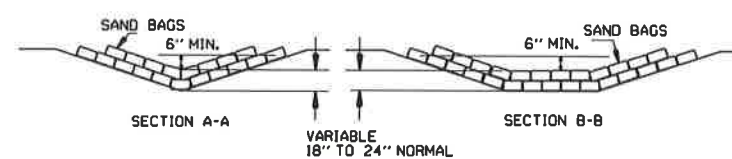
GENERAL NOTES

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

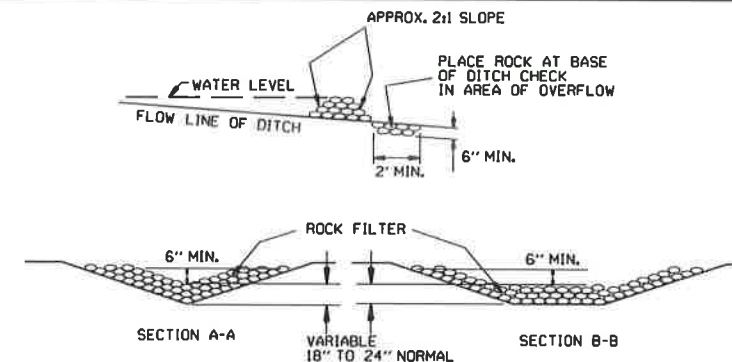


WATTLE DITCH CHECK (E-1)

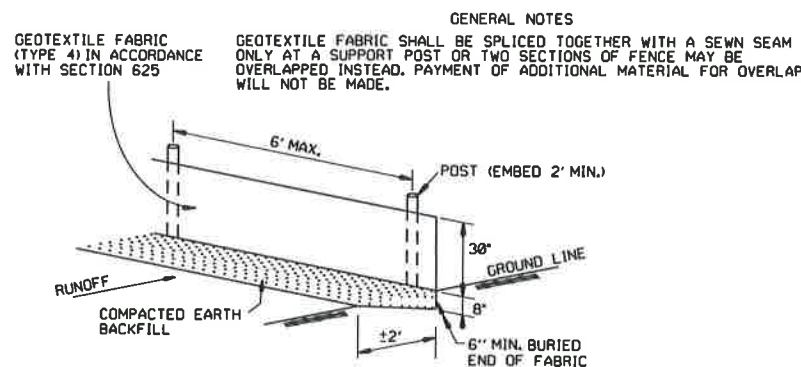
NUMBER OF SAND BAGS AND ARRANGEMENT VARIABLE WITH ON-SITE CONDITIONS. PLACE SAND BAGS AT BASE OF DITCH CHECK IN AREA OF OVERFLOW.



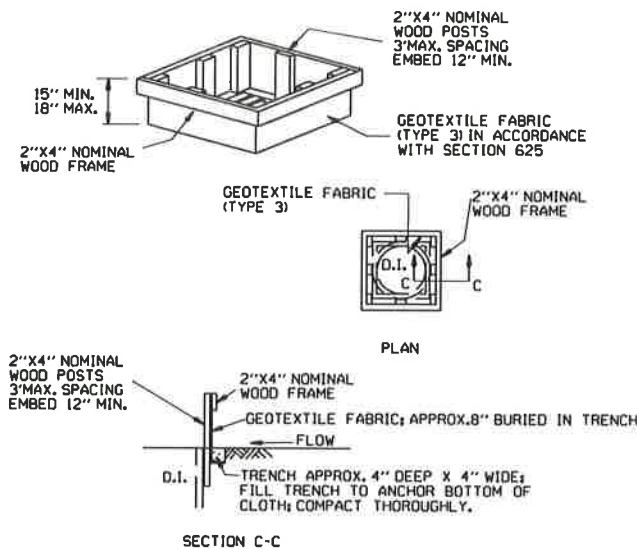
SAND BAG DITCH CHECK (E-5)



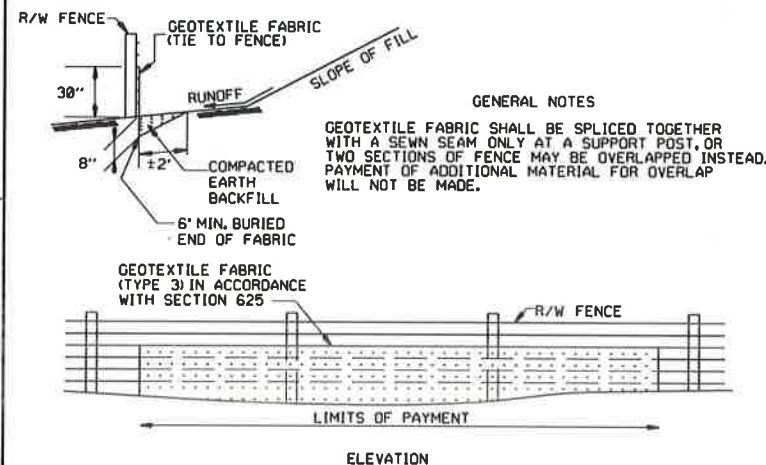
ROCK DITCH CHECK (E-6)



SILT FENCE (E-11)

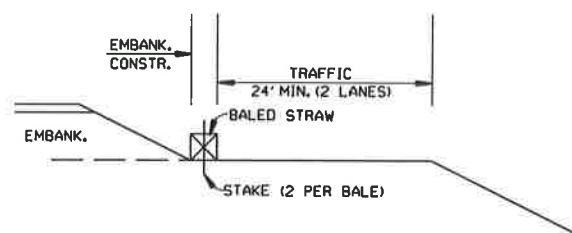


DROP INLET SILT FENCE (E-7)

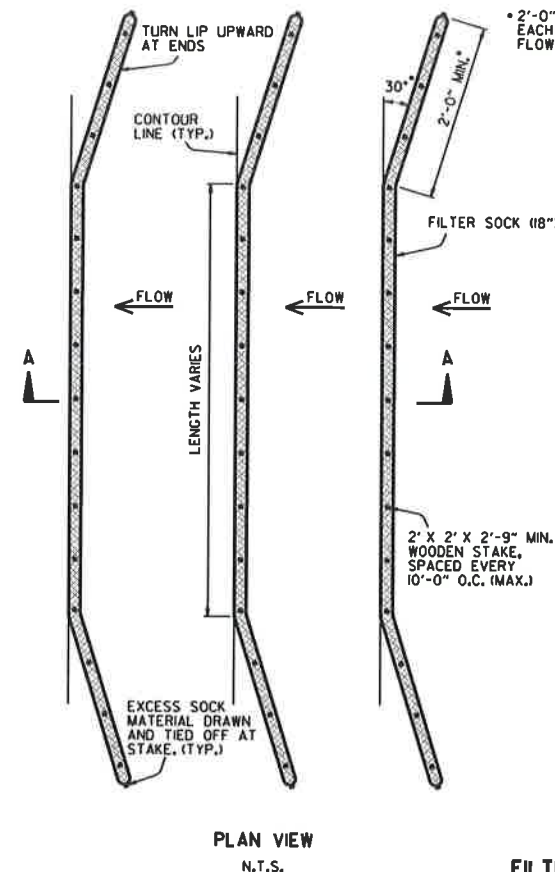


SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
2. NO GAPS SHALL BE LEFT BETWEEN BALES.
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.

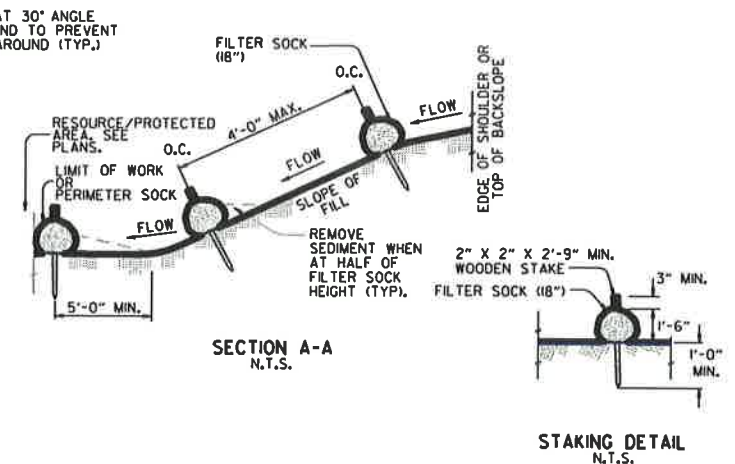


BALED STRAW FILTER BARRIER (E-2)

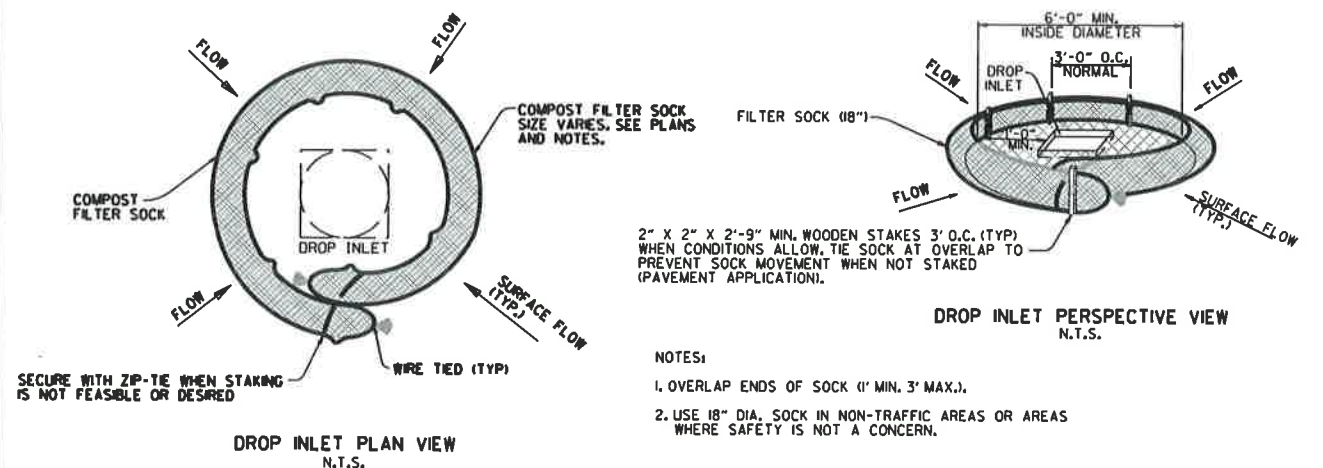


PLAN VIEW
N.T.S.

FILTER SOCK ALONG SLOPE (E-3)



NOTES:
1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.
3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBSIDIARY TO "FILTER SOCK (18\"/>



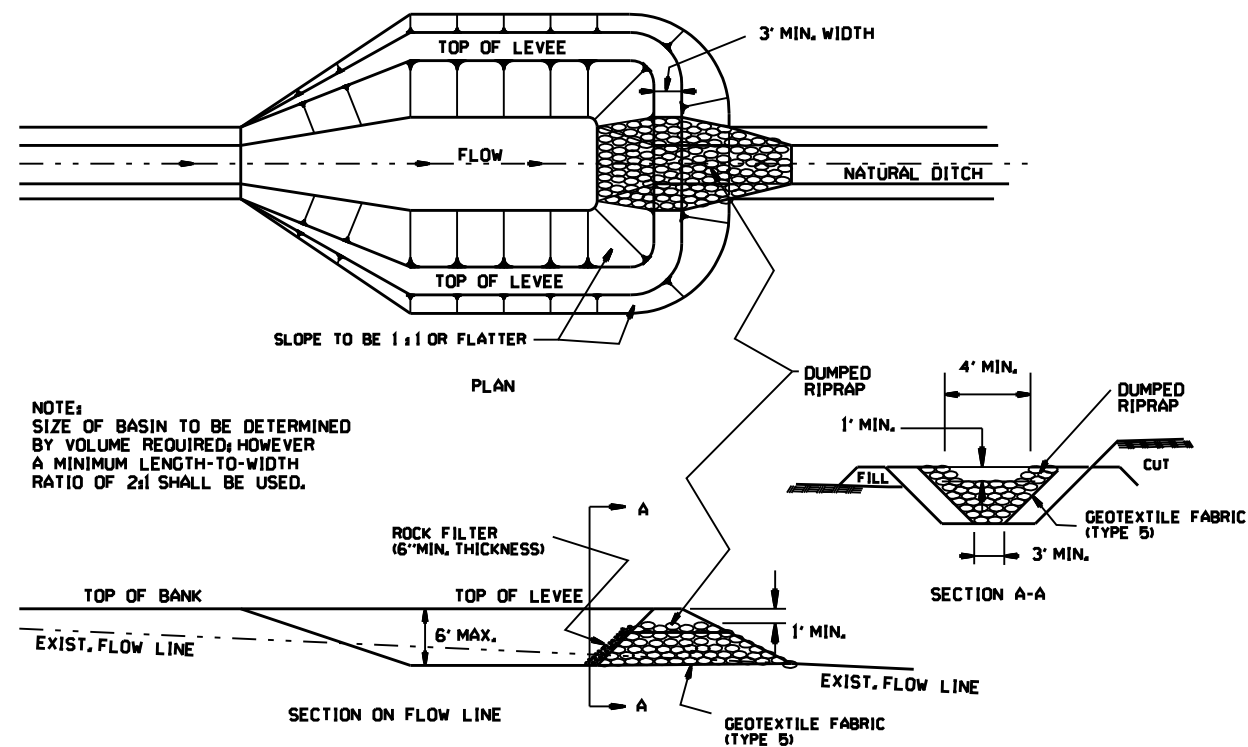
DROP INLET PLAN VIEW
N.T.S.

COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

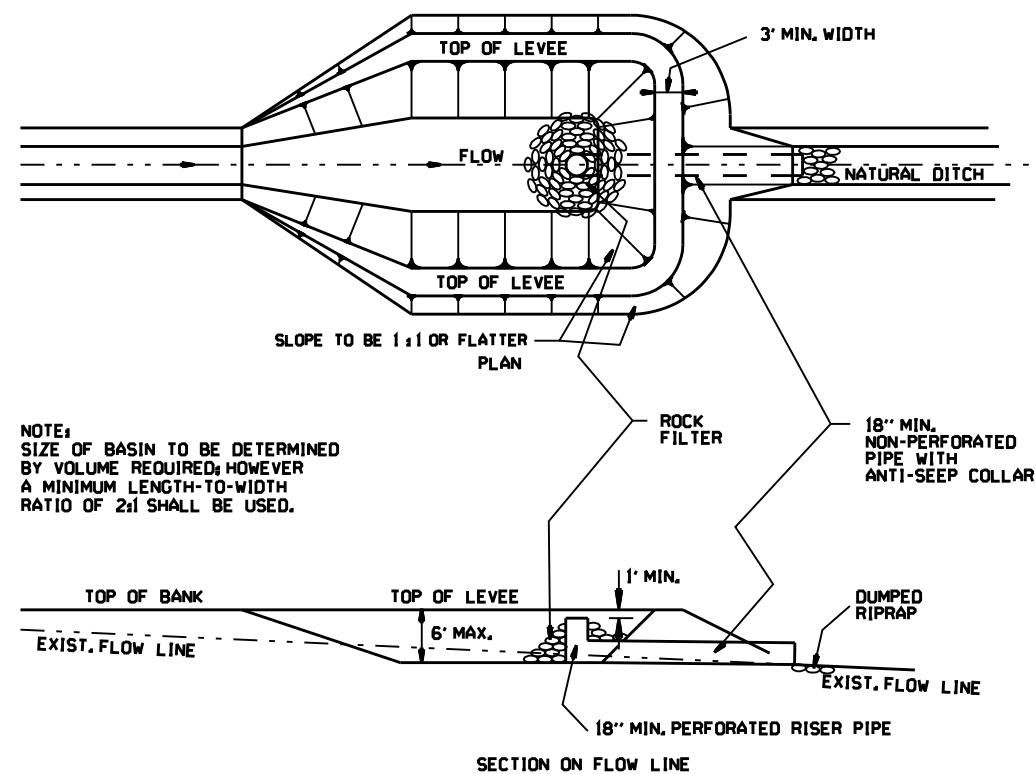
NOTES:
1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).
2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

11-16-17	ADDED FILTER SOCK E-3 AND E-13	
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
07-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
07-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
07-15-94	REV. E-4 & E-11 MIN. 13" BURED END OF FABRIC	
06-02-94	REVISED E-1, 4, 7 & 11; DELETED E-2 & 3	6-2-94
04-01-93	REDRAWN	
10-01-92	REDRAWN	
08-02-76	ISSUED R.D.M.	298-7-28-76
DATE	REVISION	FILMED

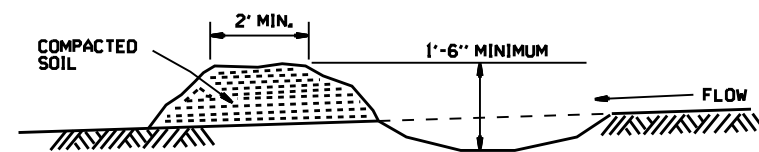
ARKANSAS STATE HIGHWAY COMMISSION
TEMPORARY EROSION
CONTROL DEVICES
STANDARD DRAWING TEC-1



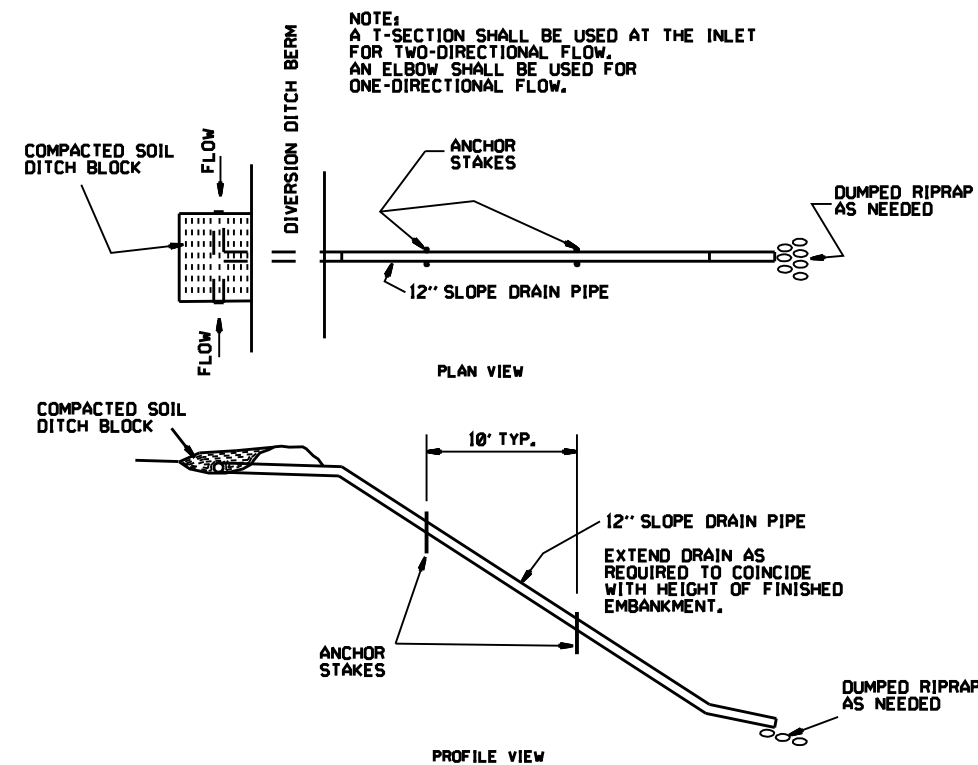
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



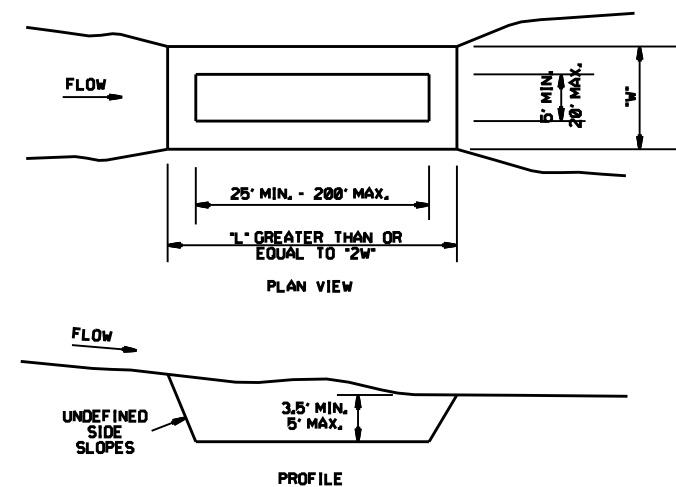
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



SLOPE DRAIN (E-12)



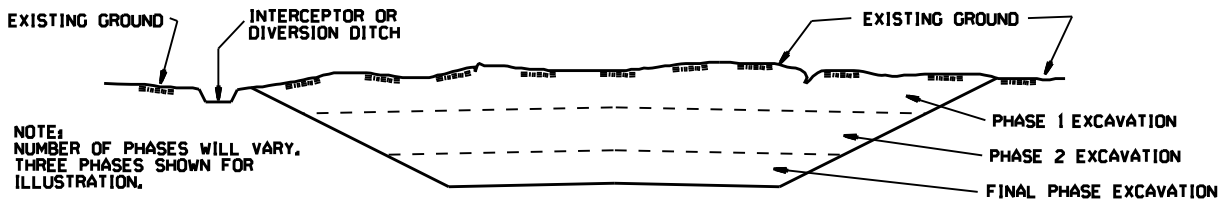
SEDIMENT BASIN (E-14)

ARKANSAS STATE HIGHWAY COMMISSION			
TEMPORARY EROSION CONTROL DEVICES			
STANDARD DRAWING TEC-2			
6-2-94	Revised E-8 & E-12r Added E-14 & Deleted E-13		
4-1-93	ISSUED		
DATE	REVISION		FILMED

CLEARING AND GRUBBING

- CONSTRUCTION SEQUENCE
- 1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES ,DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
 - 2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION

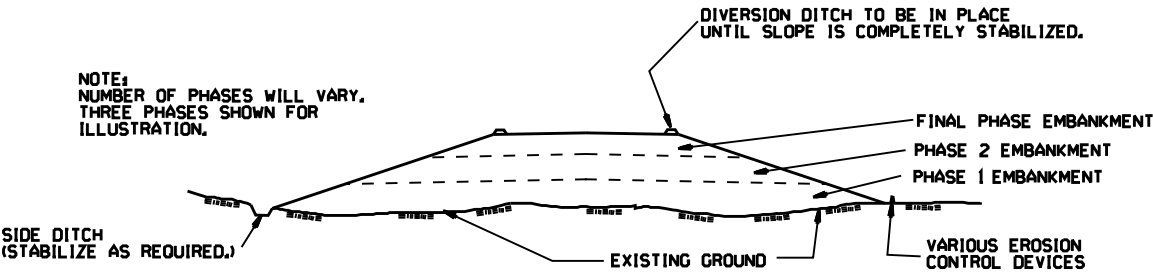


GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

- CONSTRUCTION SEQUENCE
- 1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
 - 2. PERFORM PHASE 1 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
 - 3. PERFORM PHASE 2 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
 - 4. PERFORM FINAL PHASE OF EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING, STABILIZE DITCHES, CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT

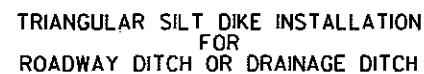
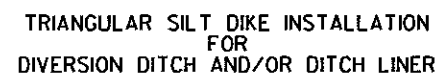


GENERAL NOTE

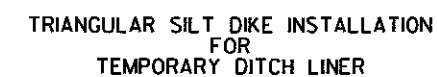
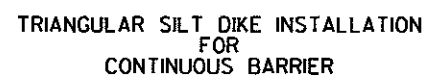
ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

- CONSTRUCTION SEQUENCE
- 1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
 - 2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING, PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
 - 3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING, PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
 - 4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING, PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

			ARKANSAS STATE HIGHWAY COMMISSION
			TEMPORARY EROSION CONTROL DEVICES
			STANDARD DRAWING TEC-3
11-03-94	CORRECTED SPELLING		
6-2-94	Drawn & Issued	6-2-94	
DATE	REVISION	FILED	



- POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
- ⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.

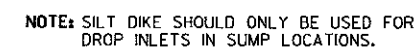


1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.
2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL AND ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 10 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.
3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.

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3. ACCEPTED TRIANGULAR SILT DIKE, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR TRIANGULAR SILT DIKE. PRICE BID WILL INCLUDE THE COST OF FURNISHING THE DIKES, INSTALLING, MAINTAINING AND REMOVAL WHEN DIRECTED BY THE ENGINEER.



		ARKANSAS STATE HIGHWAY COMMISSION	
		TEMPORARY EROSION CONTROL DEVICES	
7-26-12	REVISED GENERAL NOTE 2.		STANDARD DRAWING TEC-4
12-15-11	ISSUED		
DATE	REVISION	FILED	