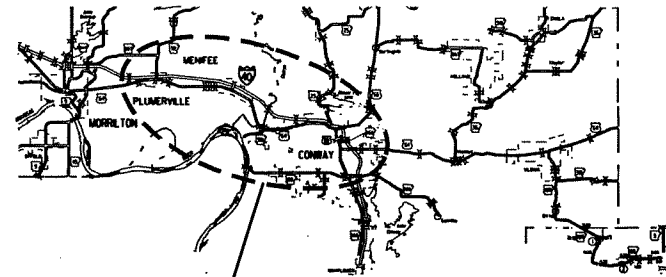


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		080465	1	39
				2 PLUMERVILLE-CONWAY (SEL. SECS.) (CABLE MEDIAN BARRIERS)				

"A FULLY CONTROLLED ACCESS FACILITY"
 ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
 CONSTRUCTION PLANS FOR STATE HIGHWAY



PROJECT LOCATION

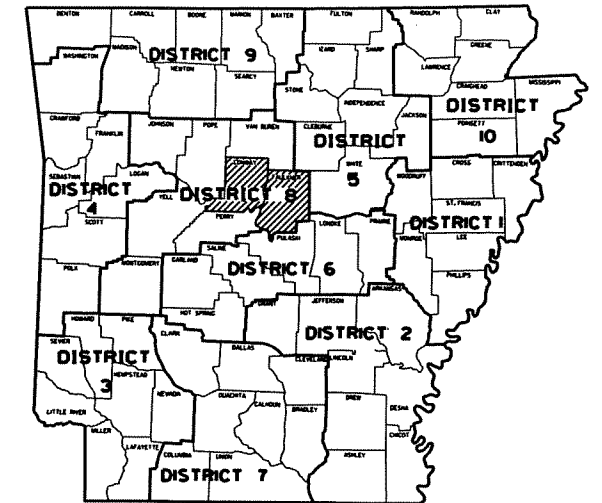
VICINITY MAP

PLUMERVILLE-CONWAY (SEL. SECS.) (CABLE MEDIAN BARRIER) (S)

CONWAY & FAULKNER COUNTIES
 ROUTE 40 SECTIONS 31 & 32

JOB 080465

FED. AID PROJ. HSIP-40-3(132)113



ARK. HWY. DIST. NO. 8



EQUATIONS

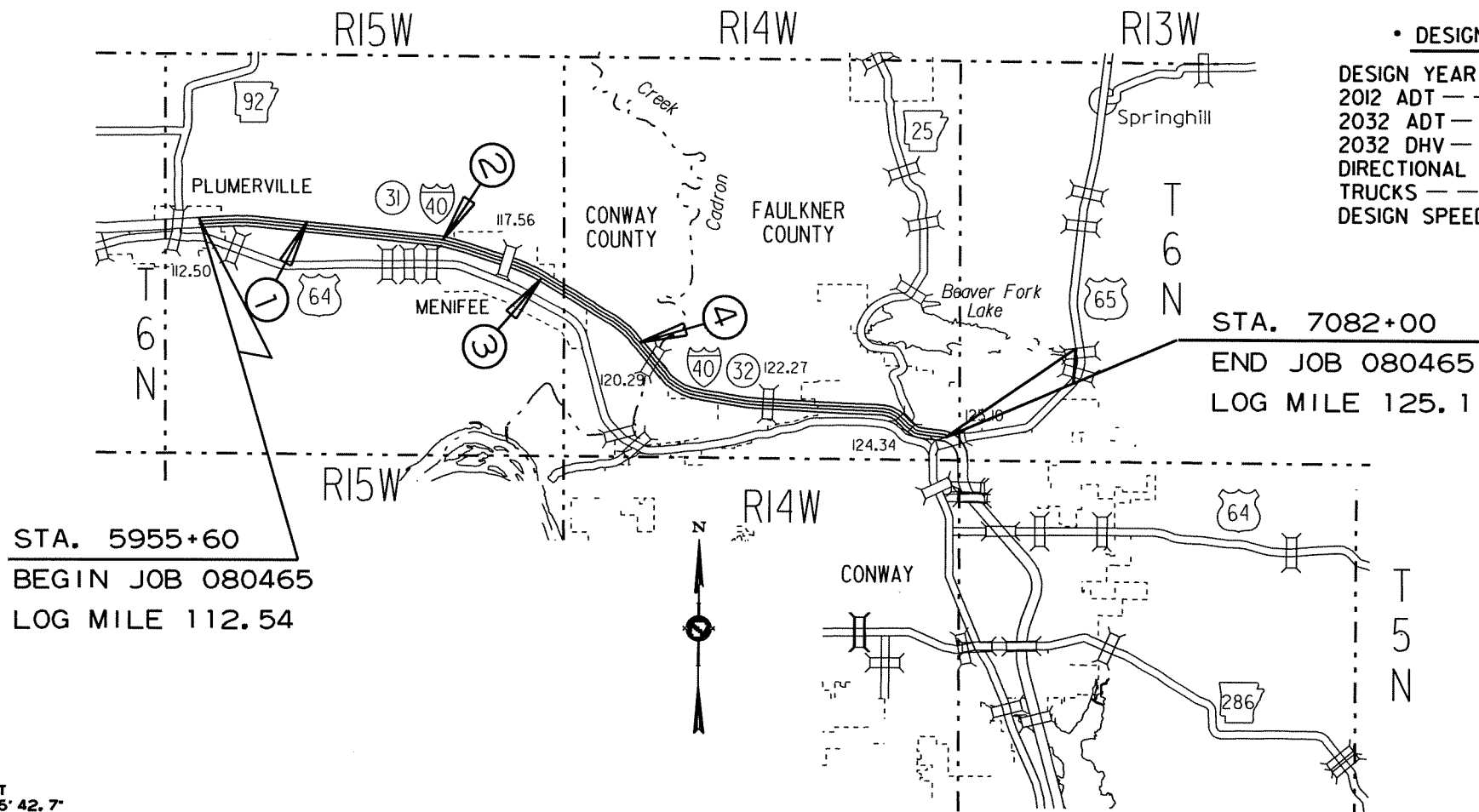
- ① EQUATION
P.T. 6018+34.4 BK. =
STA. 6018+37.6 AHD.
- ② EQUATION
P.T. 6180+71.0 BK. =
STA. 6180+75.5 AHD.
- ③ EQUATION
STA. 6252+85.4 BK. =
STA. 6252+90.3 AHD.
- ④ EQUATION
STA. 6357+69.3 BK. =
STA. 6819+00.0 AHD.

EXCEPTIONS

STA. 6824+20.0 - STA. 6832+40.0 = 820'
 STA. 6850+12.0 - STA. 7011+50.0 = 16138'
 STA. 7040+75.0 - STA. 7042+55.0 = 180'
 TOTAL LENGTH OF EXCEPTIONS = 17138'

• DESIGN TRAFFIC DATA •

DESIGN YEAR	-----	2032
2012 ADT	-----	35,000
2032 ADT	-----	43,000
2032 DHV	-----	4730
DIRECTIONAL DISTRIBUTION	-----	60%
TRUCKS	-----	25%
DESIGN SPEED	-----	70 MPH



STA. 5955+60
 BEGIN JOB 080465
 LOG MILE 112.54

STA. 7082+00
 END JOB 080465
 LOG MILE 125.11

BEGINNING OF PROJECT	MID-POINT OF PROJECT	END OF PROJECT
LAT. = N 35°09'46.1"	LAT. = N 35°08'33.4"	LAT. = N 35°06'42.7"
LONG. = W 92°38'27.1"	LONG. = W 92°31'51.3"	LONG. = W 92°26'07.0"

GROSS LENGTH OF PROJECT	66496.70	FEET	OR	12.594	MILES
NET " " ROADWAY	49358.70	" "	" "	9.348	" "
NET " " BRIDGES	0.00	" "	" "	0.000	" "
NET " " PROJECT	49358.70	" "	" "	9.348	" "

P.E. 080465
 NON-PART.

APPROVED

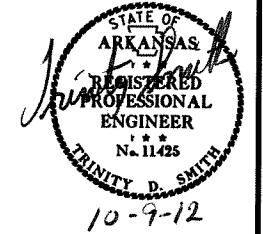
10/19/12
 DEPUTY DIRECTOR
 AND CHIEF ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		2	39

2 INDEX, GOV. SPECS. AND GENERAL NOTES

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2003, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:



INDEX OF SHEETS

SHEET NO.	TITLE	DRWG. NO.	DATE
1	TITLE SHEET		
2	INDEX OF SHEETS, GOVERNING SPECIFICATIONS AND GENERAL NOTES		
3	TYPICAL SECTIONS OF IMPROVEMENT		
4-5	SPECIAL DETAILS		
6-15	TEMPORARY EROSION CONTROL DETAILS		
16-18	MAINTENANCE OF TRAFFIC		
19-20	QUANTITIES		
21	SUMMARY OF QUANTITIES AND REVISIONS		
22-31	PLAN SHEETS		
32	CONCRETE DITCH PAVING	CDP-1	11-17-10
33	GUARD RAIL DETAILS	GR-8	7-14-10
34	GUARD RAIL DETAILS	GR-9A	4-17-08
35	GUARD RAIL DETAILS	GRT-1	7-14-10
36	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	12-15-11
37	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	3-11-10
38	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	10-15-09
39	TEMPORARY EROSION CONTROL DEVICES	TEC-1	12-15-11

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
100-2	MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
102-1	BIDDING REQUIREMENTS AND CONDITIONS
103-1	DETERMINATION OF DBE PARTICIPATION
105-1	CONSTRUCTION CONTROL MARKINGS
105-2	EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
105-3	CONTROL OF WORK
107-1	WORKER VISIBILITY
108-1	LIQUIDATED DAMAGES
303-1	AGGREGATE BASE COURSE
404-1	PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX
404-2	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
409-1	MINERAL AGGREGATES
410-3	DENSITY TESTING FOR ACHM LEVELING COURSES AND BOND BREAKERS
600-1	WATER FOR VEGETATION
603-1	MAINTENANCE OF TRAFFIC
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-2	INSPECTION OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
606-1	PIPE CULVERTS FOR SIDE DRAINS
JOB 080465	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 080465	CONCRETE DITCH PAVING
JOB 080465	COORDINATION OF WORK
JOB 080465	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 080465	INTERNET BIDDING
JOB 080465	MAINTENANCE OF TRAFFIC
JOB 080465	PLASTIC PIPE
JOB 080465	SEQUENCE OF CONSTRUCTION
JOB 080465	SITE USE (A + C METHOD)
JOB 080465	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 080465	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 080465	UTILITY ADJUSTMENTS
JOB 080465	WARM MIX ASPHALT
JOB 080465	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 080465	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB 080465	WRSF TRAINING WORKSHOP

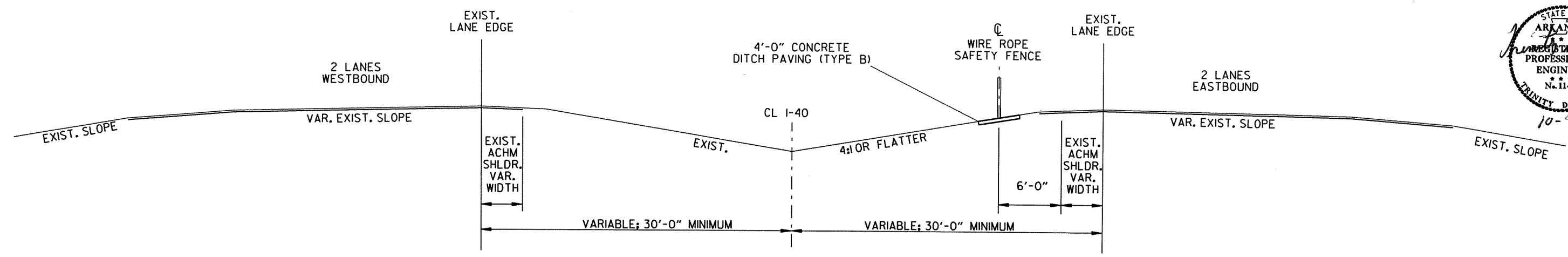
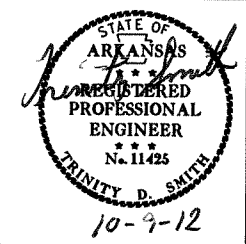
GENERAL NOTES

- 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 FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ANY REQUIRED EROSION CONTROL MEASURES FROM WASTING MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE.

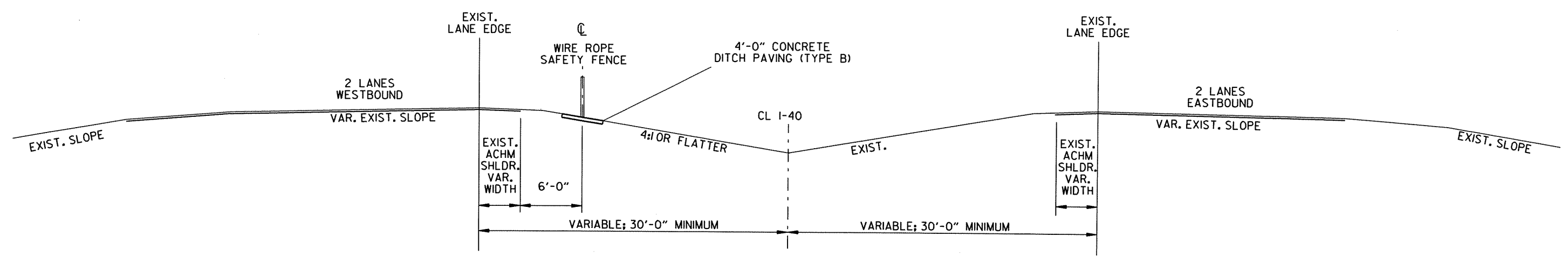
r080465.dgn index of sheets 10/1/12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		3	39

② TYPICAL SECTIONS OF IMPROVEMENT



TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON EASTBOUND LANES FORESLOPE

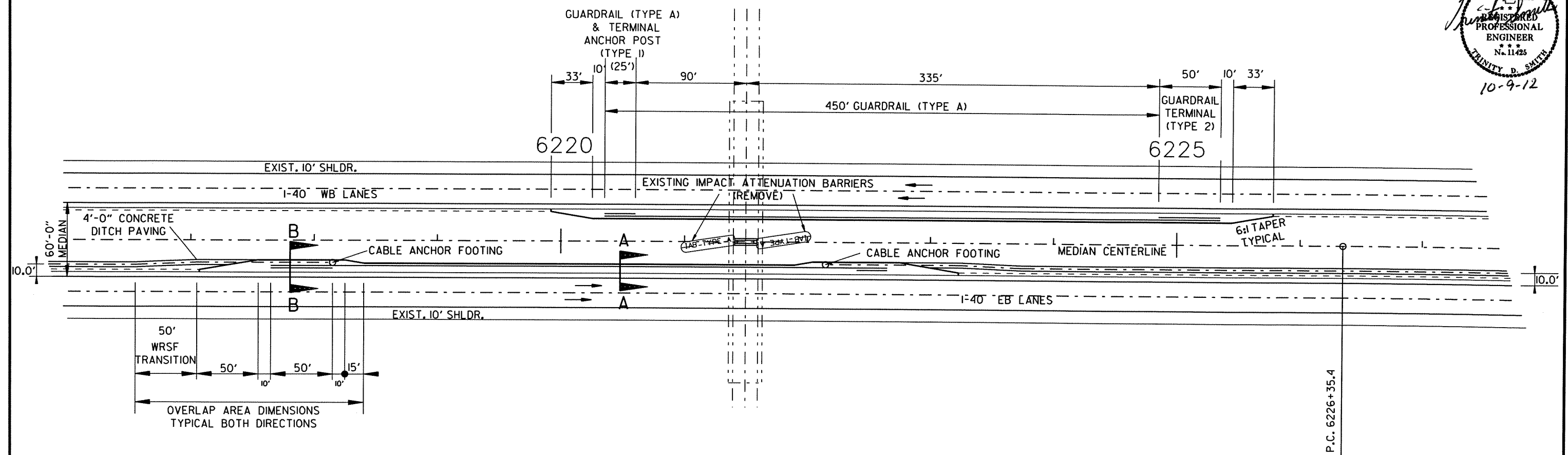
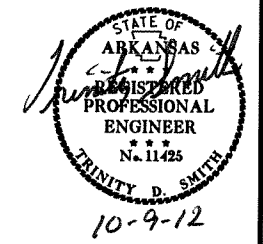


TYPICAL SECTION OF IMPROVEMENT
WIRE ROPE SAFETY FENCE ON WESTBOUND LANES FORESLOPE

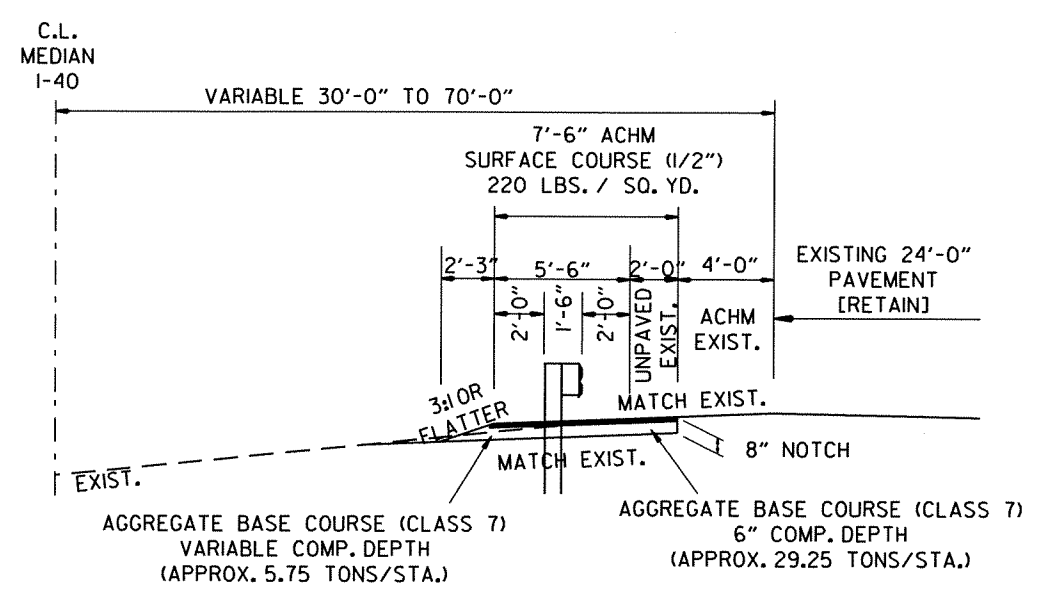
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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JOB NO. 080465							4	39

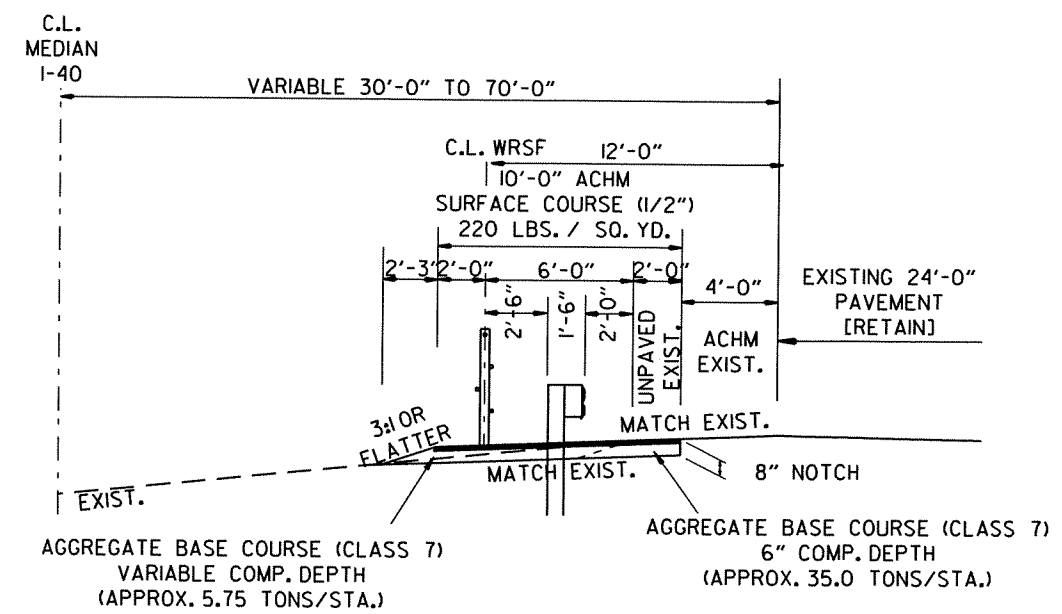
② SPECIAL DETAILS



DETAIL AT MENIFEE OVERPASS



SECTION A-A



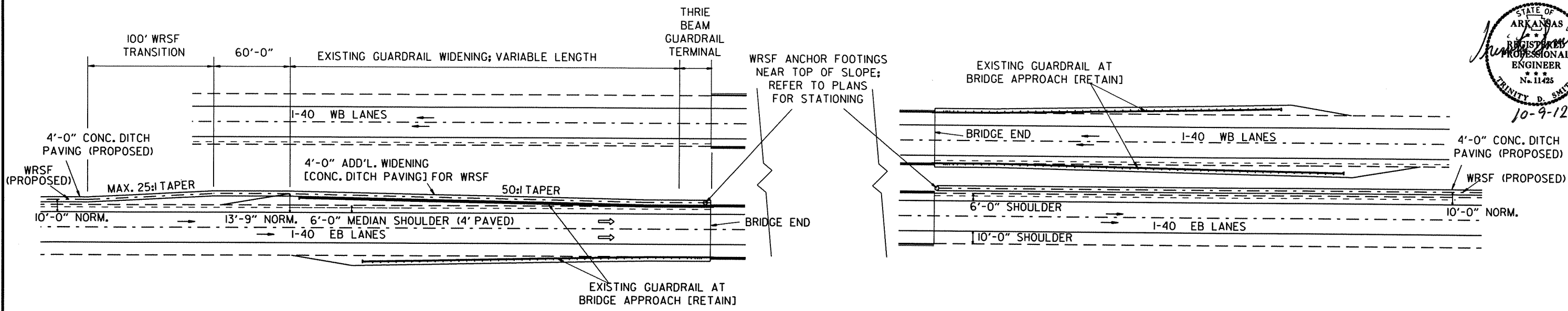
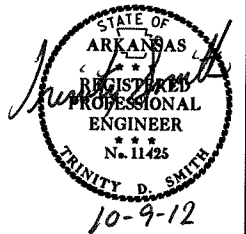
SECTION B-B

SPECIAL DETAILS

r080465.dgn special details 9/27/12

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JOB NO. 080465							5	39

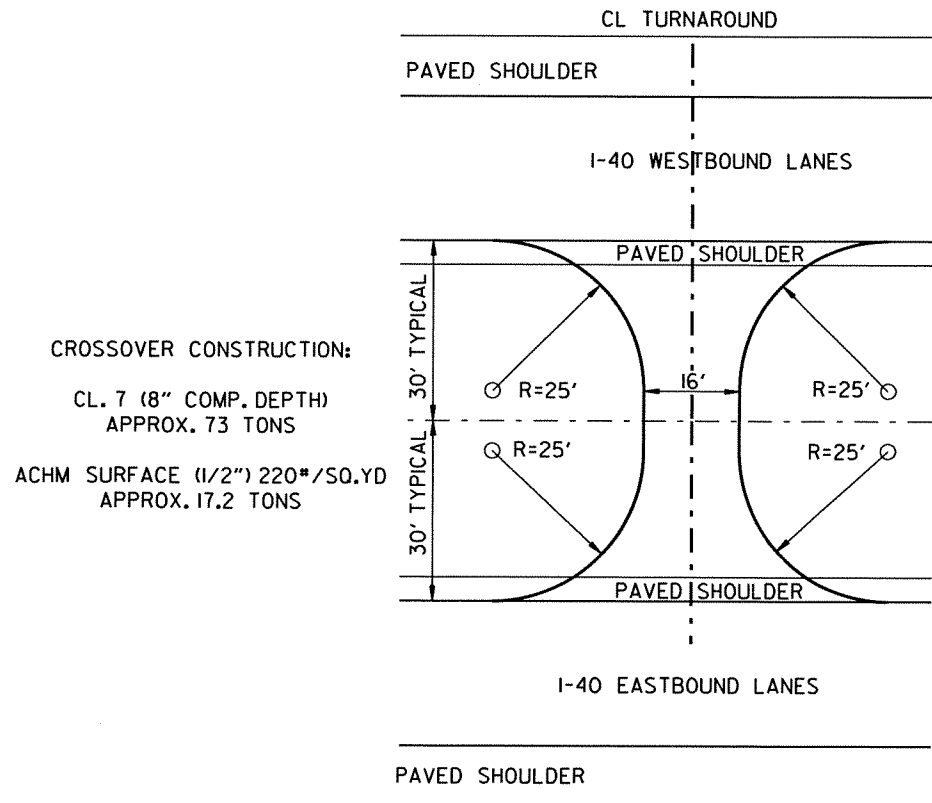
② SPECIAL DETAILS



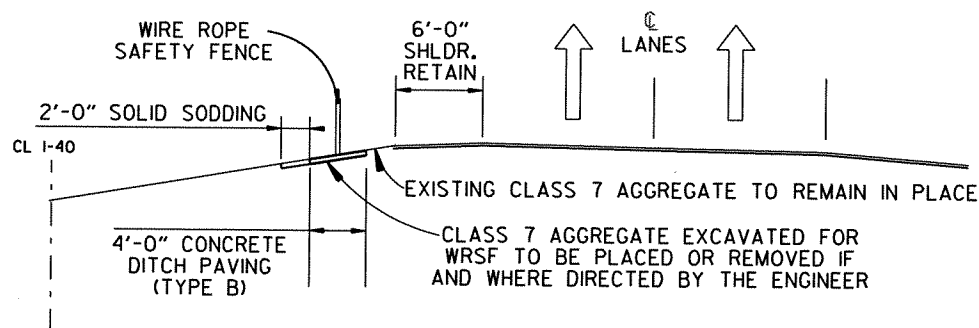
WRSF AND EXIST. GUARDRAIL ON SAME SIDE OF MEDIAN

WRSF AND EXIST. GUARDRAIL ON OPPOSITE SIDES OF MEDIAN

DETAIL OF WIRE ROPE SAFETY FENCE AT EXISTING BRIDGE ENDS



DETAIL OF MEDIAN CROSSOVER CONSTRUCTED AT STA. 6832+20

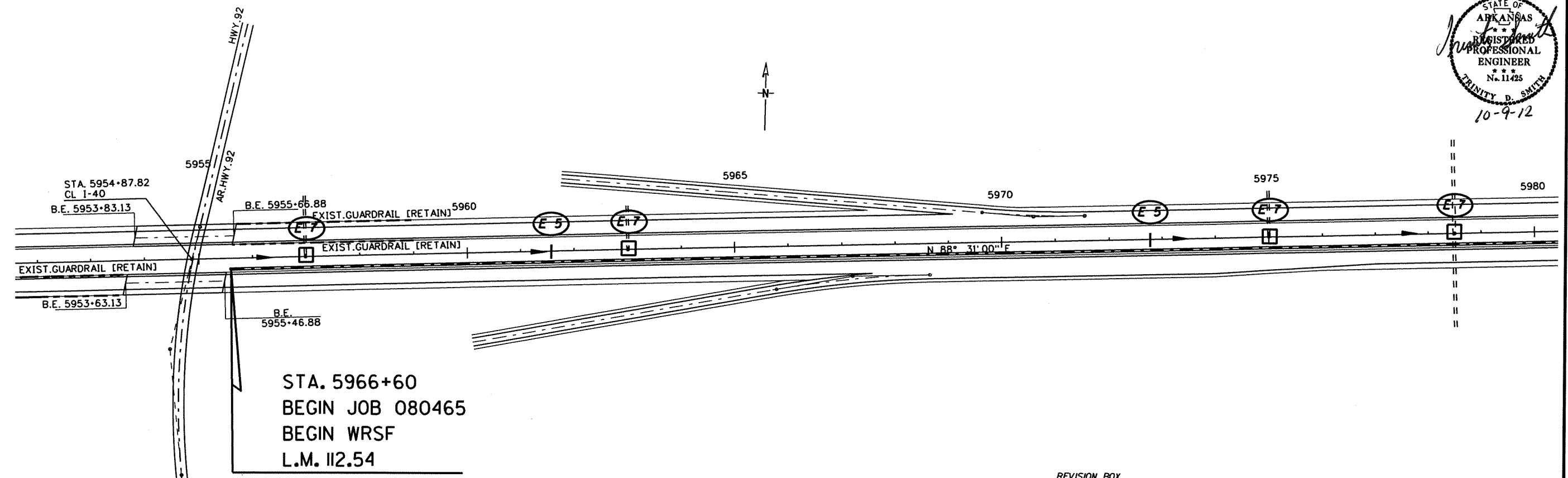
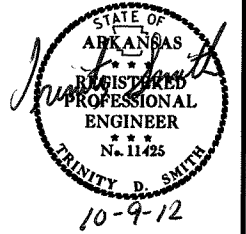


SOLID SODDING DETAIL

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				6	ARK.			
				JOB NO.	080465		6	39

② TEMPORARY EROSION CONTROL DETAILS



REVISION BOX

DIRECTION OF DRAINAGE FLOW	SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	(E 5)	(E 7)		
		□		

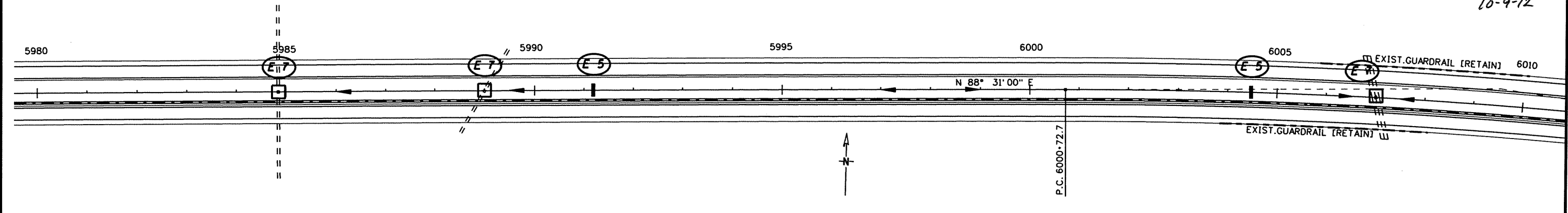
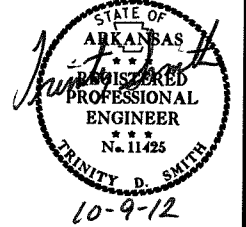
LEGEND

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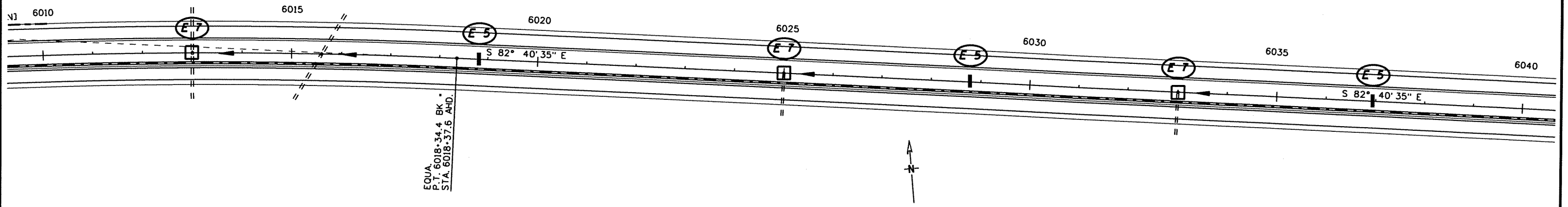
TEMPORARY EROSION CONTROL DETAILS
STA. 5952+00 - STA. 5980+00

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				6	ARK.				
JOB NO.							080465	7	39

② TEMPORARY EROSION CONTROL DETAILS



REVISION BOX			DATE OF REVISION	REVISION
DIRECTION OF DRAINAGE FLOW	SAND BAG DITCH CHECK	DROP INLET SILT FENCE		
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LEGEND				

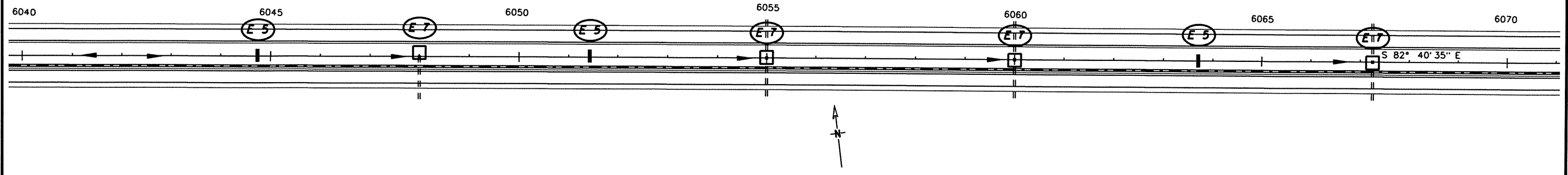


TEMPORARY EROSION CONTROL DETAILS
STA. 5980+00 - STA. 6040+00

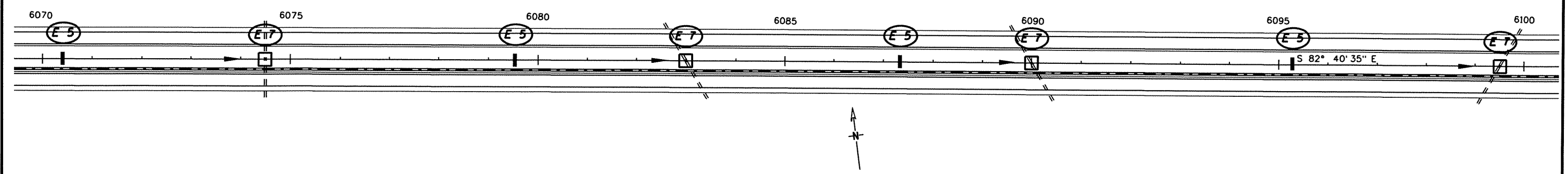
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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				JOB NO.	080465		8	39

② TEMPORARY EROSION CONTROL DETAILS



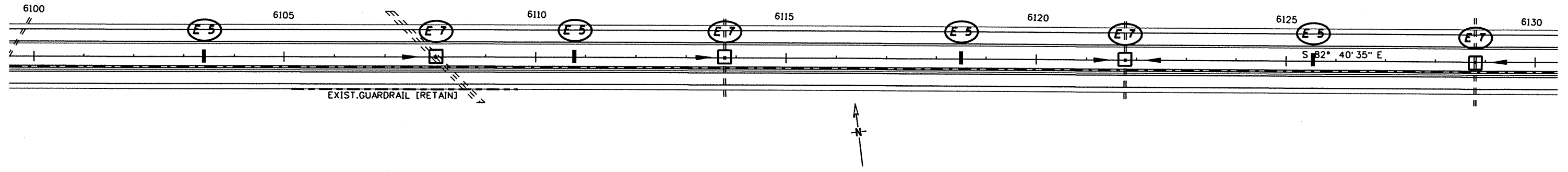
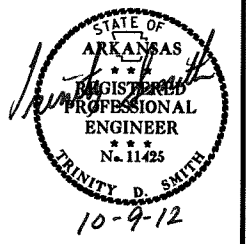
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DIRECTION OF DRAINAGE FLOW	SAND BAG DITCH CHECK	DROP INLET SILT FENCE		
←	(E-5)	(E-7)		
		□		
LEGEND				



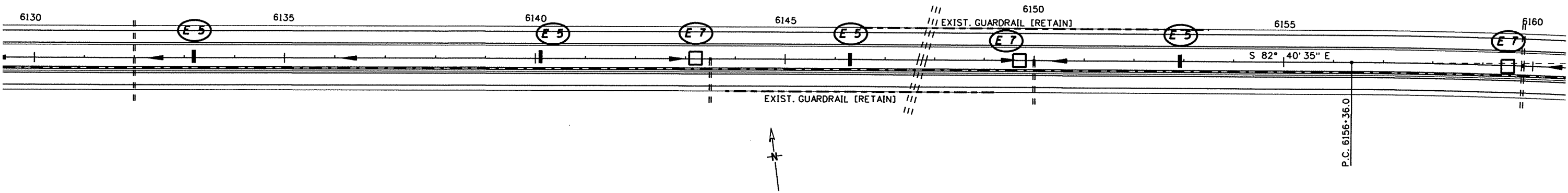
TEMPORARY EROSION CONTROL DETAILS
STA. 6040+00 - STA. 6100+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							9	39

② TEMPORARY EROSION CONTROL DETAILS



LEGEND			REVISION BOX	
DIRECTION OF DRAINAGE FLOW	SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
◀	(E 5)	(E 7)		
		□		

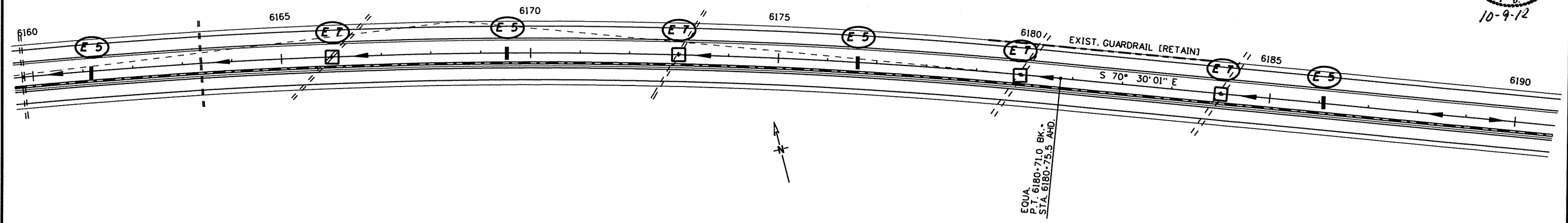


TEMPORARY EROSION CONTROL DETAILS
STA. 6100+00 - STA. 6160+00

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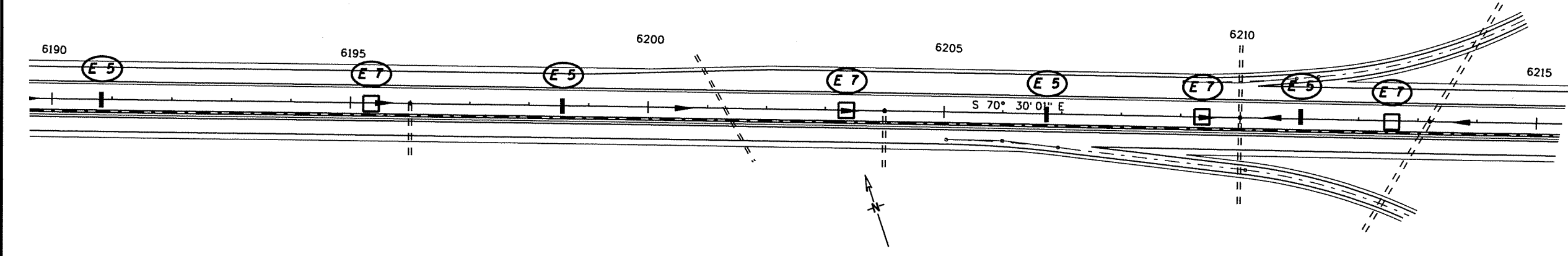
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				6	ARK.		10	39

2 TEMPORARY EROSION CONTROL DETAILS



EQUA
P.T. 6180+71.0 BK.*
STA. 6180+75.5 AHD.

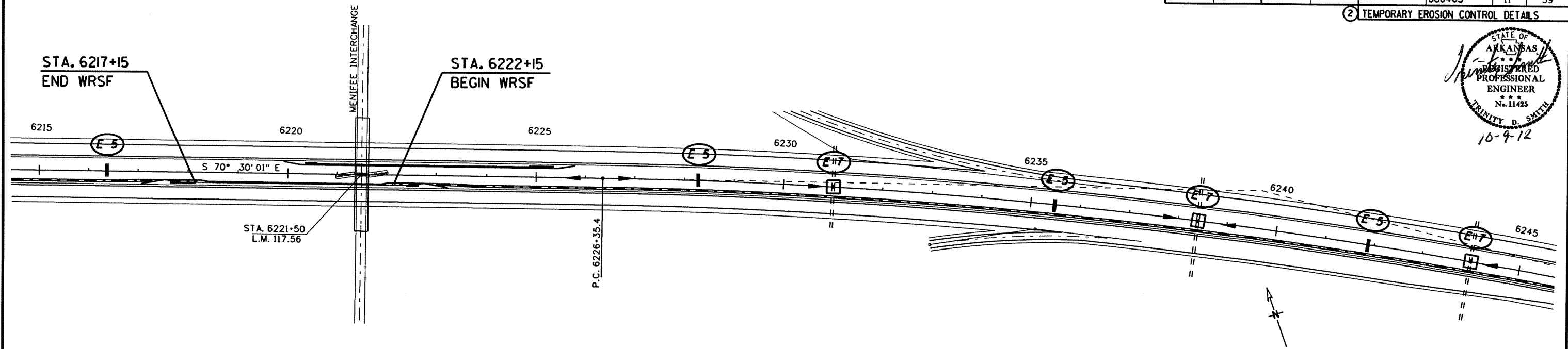
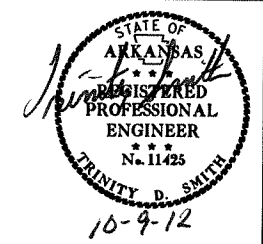
DIRECTION OF DRAINAGE FLOW		SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	→	(E 5)	(E 7)		
LEGEND					



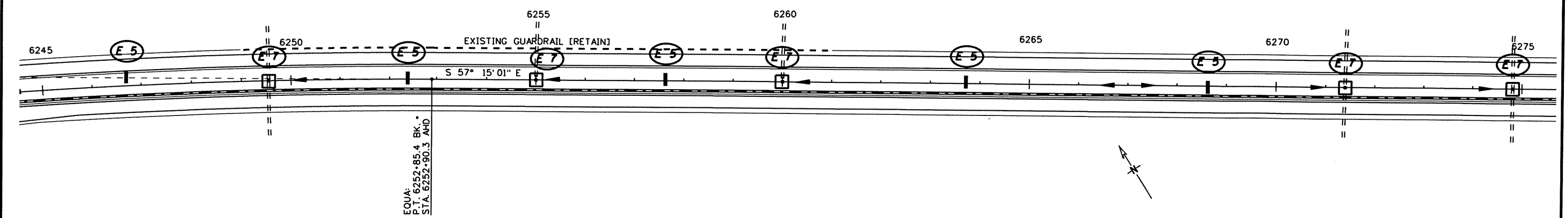
TEMPORARY EROSION CONTROL DETAILS
STA. 6160+00 - STA. 6215+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							11	39

② TEMPORARY EROSION CONTROL DETAILS



DIRECTION OF DRAINAGE FLOW		SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	→	(E 5)	(E 7)		
			□		
LEGEND					

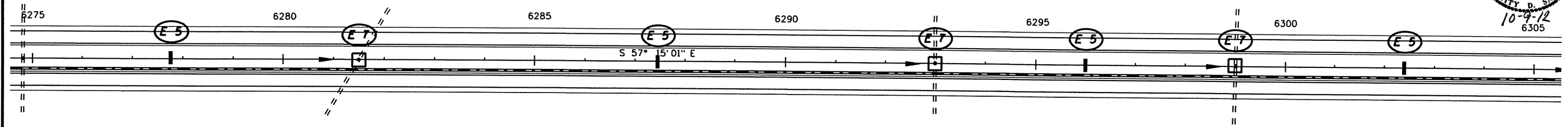
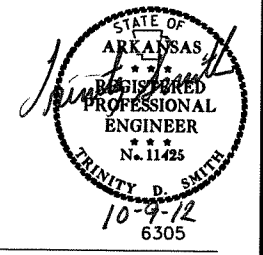


TEMPORARY EROSION CONTROL DETAILS
STA. 6215+00 - STA. 6275+00

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		12	39
				JOB NO.		080465		

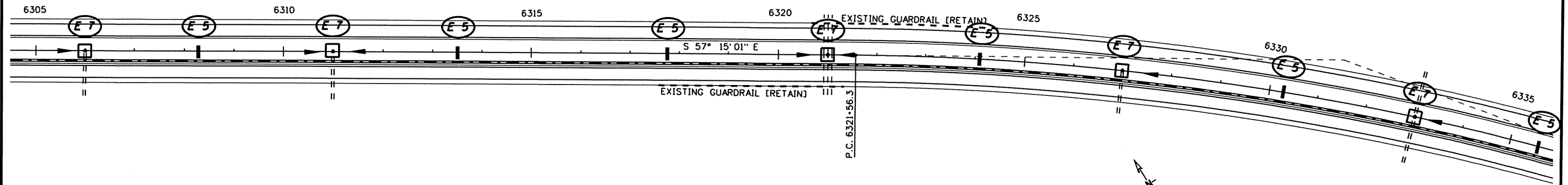
② TEMPORARY EROSION CONTROL DETAILS



REVISION BOX

DIRECTION OF DRAINAGE FLOW	SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	(E 5)	(E 7)		
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LEGEND

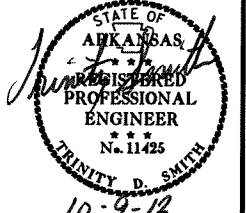


TEMPORARY EROSION CONTROL DETAILS
STA. 6275+00 - STA. 6335+00

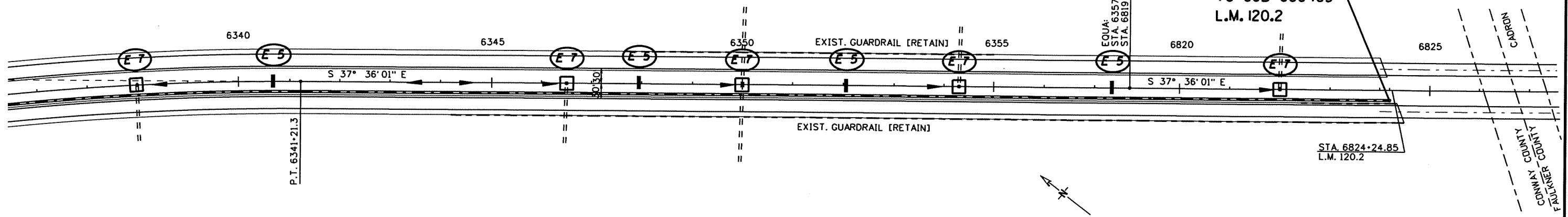
r080465.dgn temp ero det 9/27/12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		080465	13	39

② TEMPORARY EROSION CONTROL DETAILS

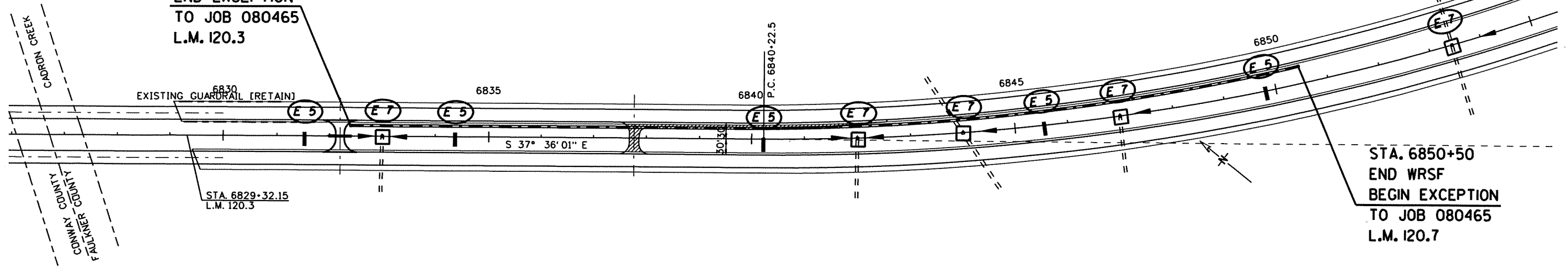


STA. 6824+20
 END WRSF
 BEGIN EXCEPTION
 TO JOB 080465
 L.M. 120.2



DIRECTION OF DRAINAGE FLOW		SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	→	(E 5)	(E 7)		
		I	□		
LEGEND					

STA. 6832+40
 BEGIN WRSF
 END EXCEPTION
 TO JOB 080465
 L.M. 120.3

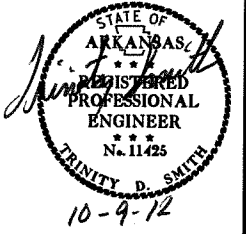


STA. 6850+50
 END WRSF
 BEGIN EXCEPTION
 TO JOB 080465
 L.M. 120.7

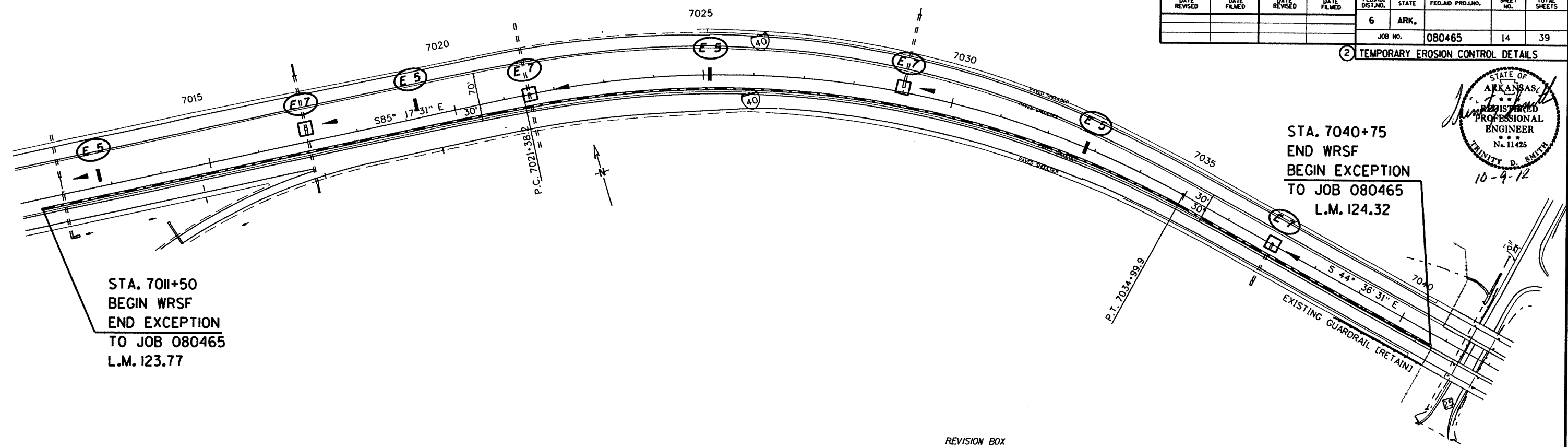
TEMPORARY EROSION CONTROL DETAILS
 STA. 6335+00 - STA. 6855+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							14	39

② TEMPORARY EROSION CONTROL DETAILS



STA. 7040+75
 END WRSF
 BEGIN EXCEPTION
 TO JOB 080465
 L.M. 124.32

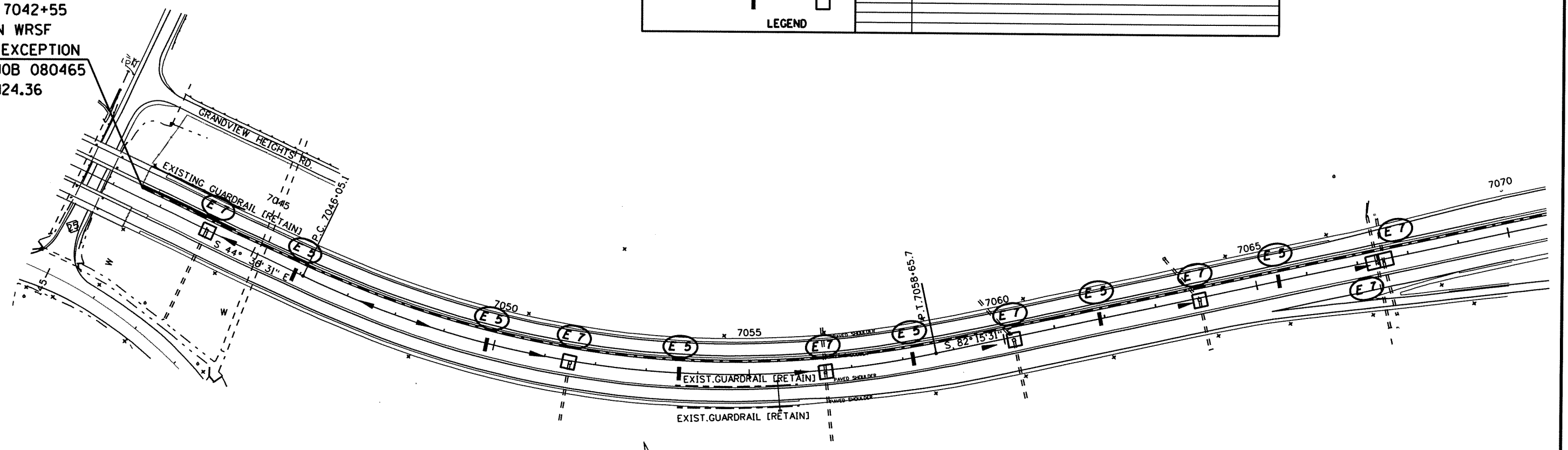


STA. 7011+50
 BEGIN WRSF
 END EXCEPTION
 TO JOB 080465
 L.M. 123.77

REVISION BOX

DIRECTION OF DRAINAGE FLOW	SAND BAG DITCH CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	(E5)	(E7)		
		□		

STA. 7042+55
 BEGIN WRSF
 END EXCEPTION
 TO JOB 080465
 L.M. 124.36



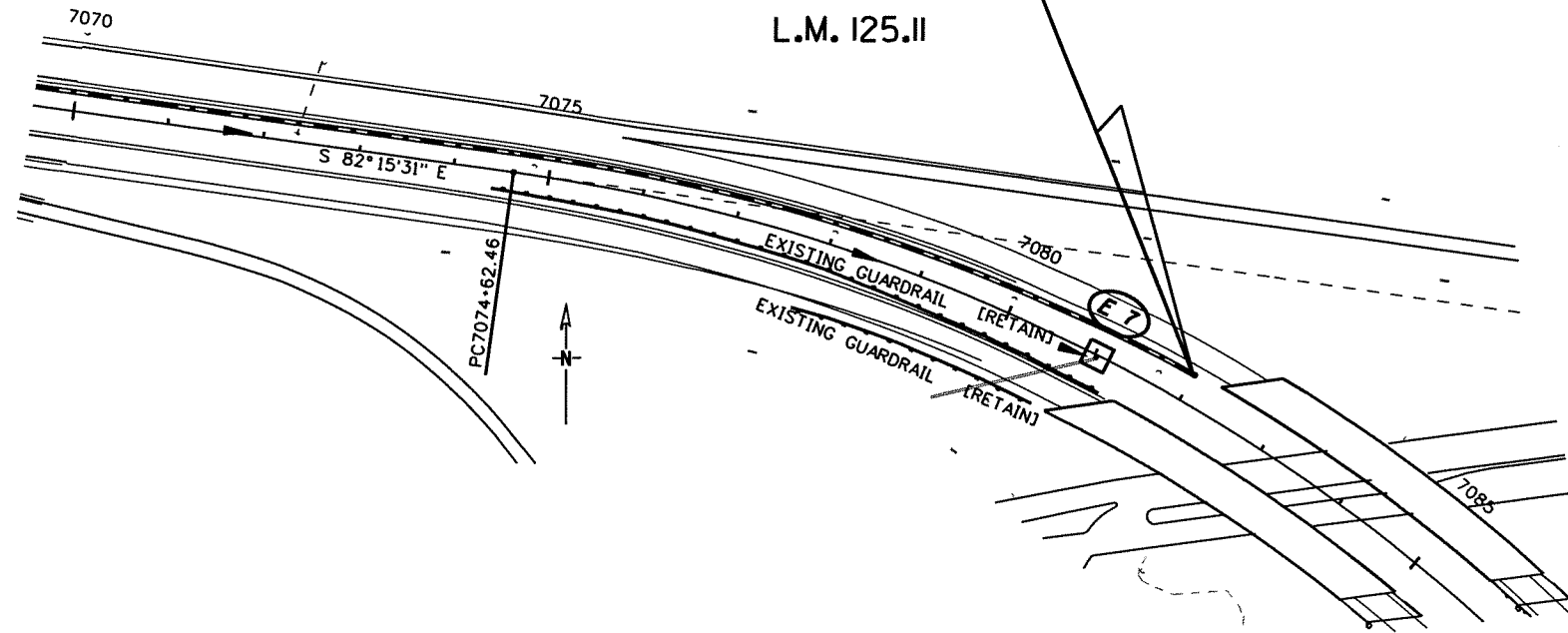
TEMPORARY EROSION CONTROL DETAILS
 STA. 7012+00 - STA. 7070+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		15	39

② TEMPORARY EROSION CONTROL DETAILS



STA. 7082+00
 END JOB 080465
 END WRSF
 L.M. 125.11



REVISION BOX

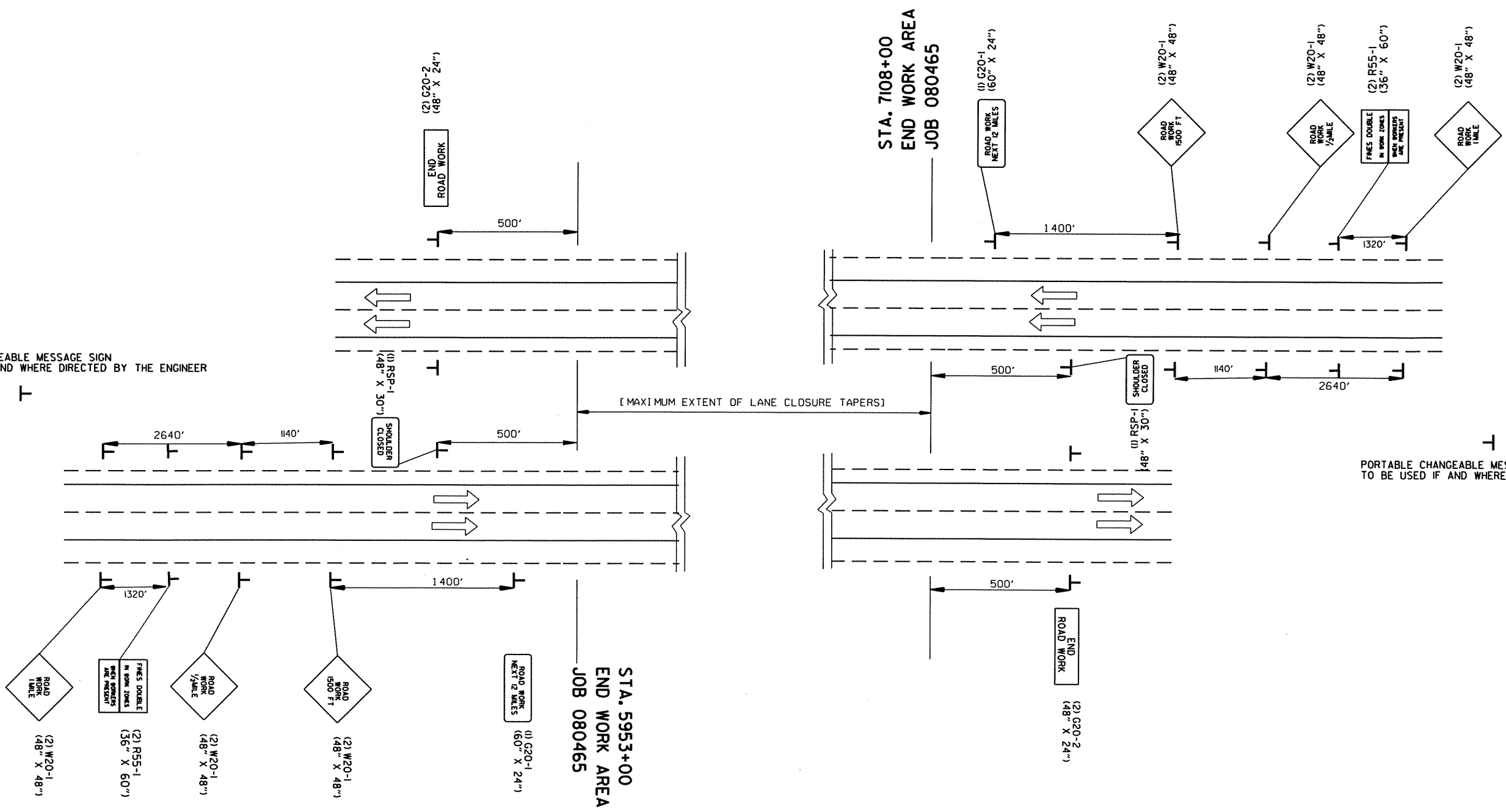
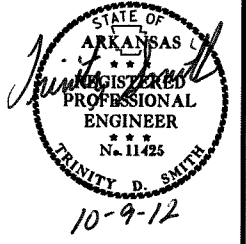
DIRECTION OF DRAINAGE	SAND BAG FLOW CHECK	DROP INLET SILT FENCE	DATE OF REVISION	REVISION
←	(E 5)	(E 7)		
	I	□		

LEGEND

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		16	39

② MAINTENANCE OF TRAFFIC

NOTE :
W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS
TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS
AS WORKING AREA SHIFTS.



PORTABLE CHANGEABLE MESSAGE SIGN
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

PORTABLE CHANGEABLE MESSAGE SIGN
TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

NOTE :
W20-1 (VARIOUS DISTANCE) ADVANCE SIGNS
TO BE REPLACED AS NEEDED BY EQUIVALENT W20-5 SIGNS
AS WORKING AREA SHIFTS.

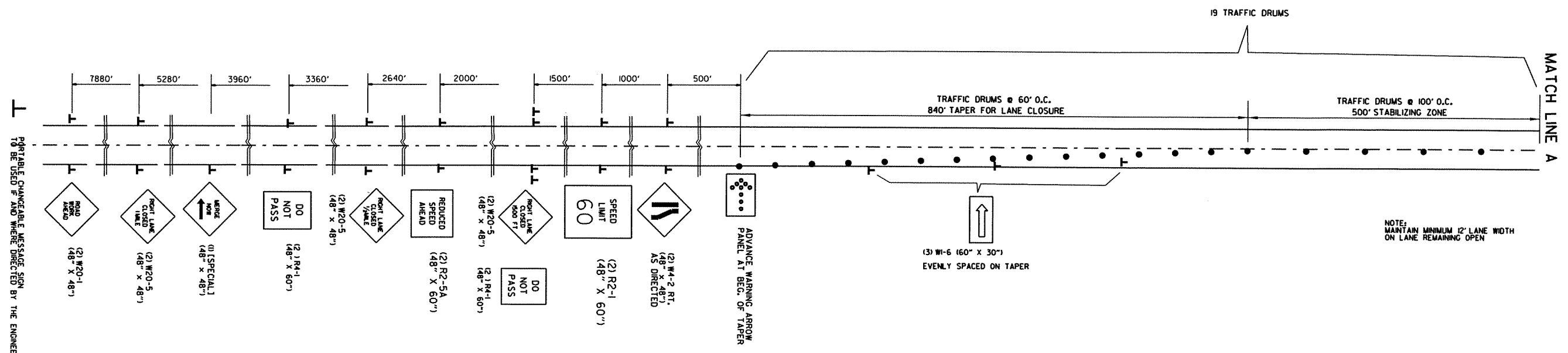
ADVANCE SIGNS AT BEGINNING AND END OF JOB ALL STAGES

MAINTENANCE OF TRAFFIC
ADVANCE SIGNS AT JOB ENDS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							17	39

2 MAINTENANCE OF TRAFFIC

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 N. IL425
 TRINITY D. SMITH
 10-4-12

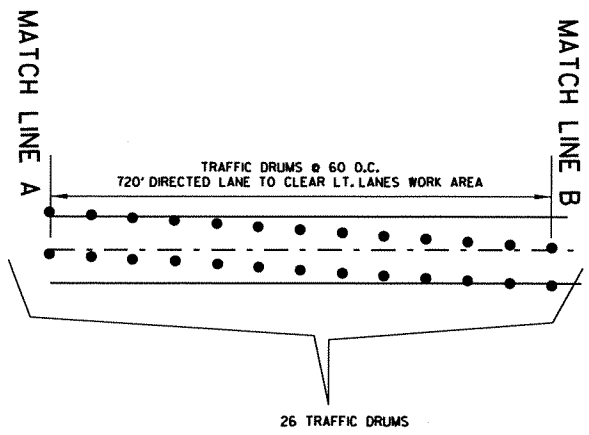


PORTABLE CHANGEABLE MESSAGE SIGN TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

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

RT. LANE CLOSURE

NOTE: ANY WORK ZONE OUTSIDE THE LIMITS OF THE LANE CLOSURE AREA MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER AND ANY ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE DEPARTMENT.



DIVERSION FOR LT. LANE WORK ZONE

NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

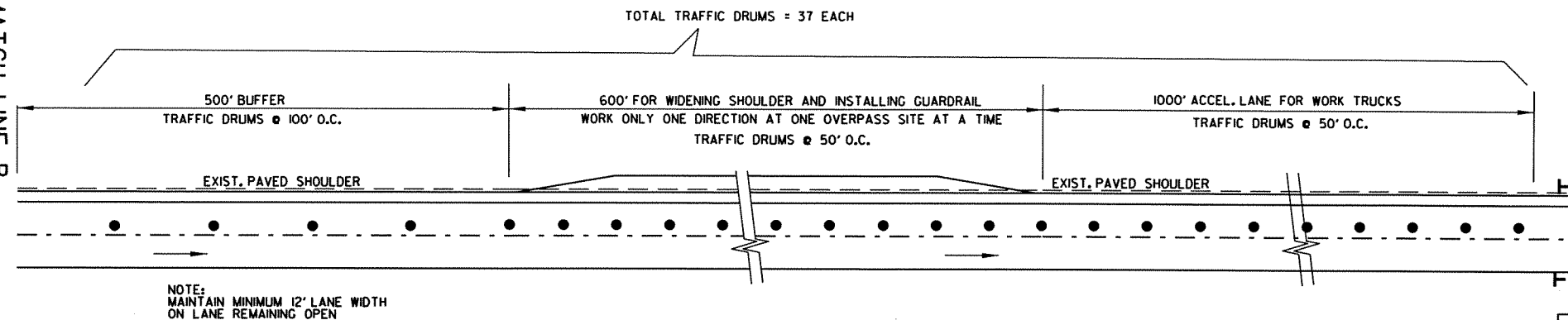
MAINTENANCE OF TRAFFIC
 MOVABLE LANE CLOSURE

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							18	39

② MAINTENANCE OF TRAFFIC



MATCH LINE B



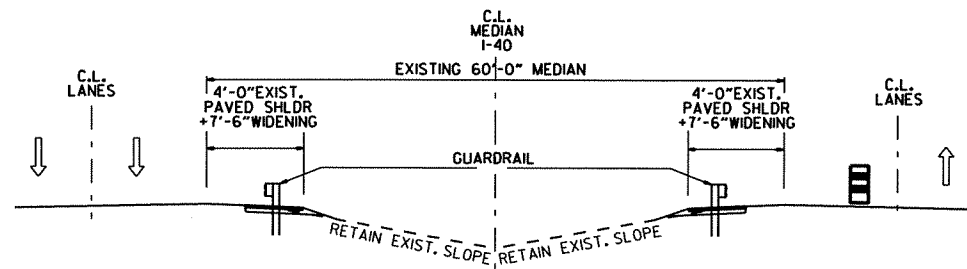
NOTE: MAINTAIN MINIMUM 12' LANE WIDTH ON LANE REMAINING OPEN



(4) W20-1
(48" X 48")
ON ENTRANCE RAMP

65	TRUCKS	70	SPEED LIMIT
----	--------	----	-------------

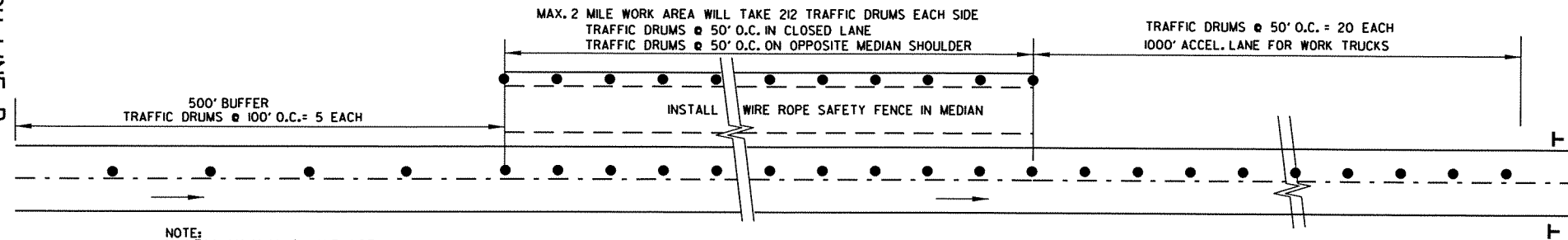
(2) R2-1
(48" X 60")
(2) R2-2
(48" X 48")



WORK ZONE FOR GUARDRAIL INSTALLATION AT MENIFEE OVERPASS

NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

MATCH LINE B

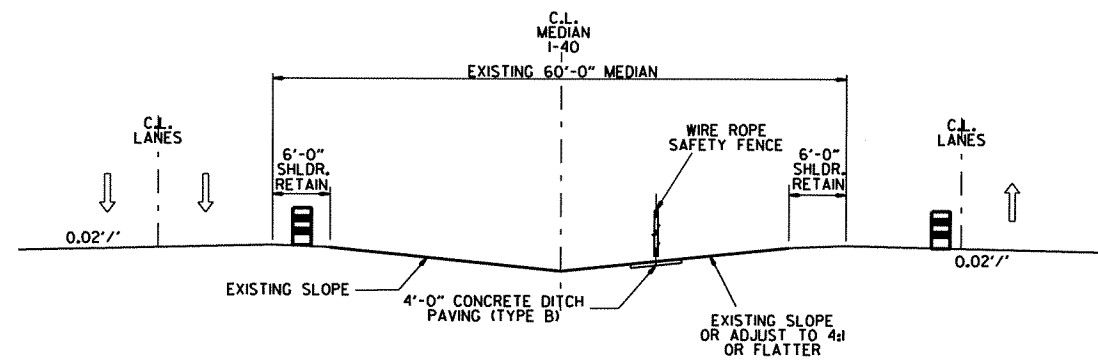


NOTE: MAINTAIN MINIMUM 12' LANE WIDTH ON LANE REMAINING OPEN

NOTE: REFER TO SP 'MAINTENANCE OF TRAFFIC' FOR RESTRICTIONS ON TIME-OF-DAY WHEN WORK MAY BE DONE.

65	TRUCKS	70	SPEED LIMIT
----	--------	----	-------------

(2) R2-1
(48" X 60")
(2) R2-2
(48" X 48")



MOVABLE WORK ZONE FOR WRSF INSTALLATION

MAINTENANCE OF TRAFFIC
WORK AREAS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		19	39

② QUANTITIES



10-9-12

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS EACH	ADVANCE WARNING ARROW PANEL DAY	PORTABLE CHANGEABLE MESSAGE SIGN WEEK
				NO.	SQ. FT.			
W20-1	ROAD WORK 1 MILE	48"x48"	4	4	64.0			
W20-1	ROAD WORK 1/2 MILE	48"x48"	4	4	64.0			
W20-1	ROAD WORK 1500 FT.	48"x48"	4	4	64.0			
W20-1	ROAD WORK AHEAD	48"x48"	6	6	96.0			
G20-2	END ROAD WORK	48"x24"	2	2	16.0			
G20-1	ROAD WORK NEXT xx MILES	60"x24"	2	2	20.0			
SPECIAL 1	MERGE NOW + ARROW	48"x48"	1	1	16.0			
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	2	2	32.0			
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	2	2	32.0			
W20-5	RIGHT LANE CLOSED 1500 FEET	48"x48"	2	2	32.0			
W4-2R	RIGHT LANE CLOSING GRAPHIC	48"x48"	2	2	32.0			
W1-6	LARGE ARROW	30"x60"	3	3	36.0			
R4-1	DO NOT PASS	24"x30"	4	4	20.0			
R55-1	FINES DOUBLE IN WORK ZONES	36"x60"	2	2	30.0			
R2-5A	REDUCED SPEED AHEAD	48"x60"	2	2	40.0			
R2-1	SPEED LIMIT 60 MPH	48"x60"	2	2	40.0			
R2-1	SPEED LIMIT 70 MPH	48"x60"	2	2	40.0			
R2-2	TRUCKS SPEED LIMIT 65 MPH	48"x60"	2	2	40.0			
RSP-1	SHOULDER CLOSED	48"x30"	1	1	10.0			
	TRAFFIC DRUMS		469			469		
	ADVANCE WARNING ARROW PANEL		1			50		
	PORTABLE CHANGEABLE MESSAGE SIGN		3				63	
TOTALS:					724.0	469	50	63

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2003 EDITION.

REMOVAL AND DISPOSAL ITEMS

STATION	DESCRIPTION	IMPACT ATTENUATION BARRIER
		EACH
6221+50	MEDIAN AT MENIFEE OVERPASS	2
TOTAL:		2

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL					
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	SAND BAG DITCH CHECKS (E-5)	DROP INLET SILT FENCE	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	BAG	LIN.FT.	CU. YD.
ENTIRE	SECTION	AS SHOWN ON PLANS											
6217+07	6222+23	RT SHOULDER WIDENING FOR GUARDRAIL	0.03	0.06	0.03	3.1	0.03				1540	1242	
6219+92	6225+78	LT SHOULDER WIDENING FOR GUARDRAIL	0.03	0.06	0.03	3.1	0.03						
6837+77		REMOVAL OF EXISTING CROSSOVER	0.05	0.10	0.05	5.1	0.05						
6832+20		CONSTRUCTION OF NEW CROSSOVER	0.05	0.10	0.05	5.1	0.05						
ENTIRE	PROJECT	AS DIRECTED BY THE ENGINEER	0.10	0.20	0.10	10.2	0.10	0.20	0.20	4.1	220	90	75
TOTALS:			0.26	0.52	0.26	26.6	0.26	0.20	0.20	4.1	1760	1332	75

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.
SAND BAG DITCH CHECKS 22 BAGS / LOCATION
DROP INLET SILT FENCE 18 LIN.FT. / 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.

*NOTE: QUANTITIES ESTIMATED; TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
							JOB NO. 080465	20	39

② QUANTITIES

EARTHWORK

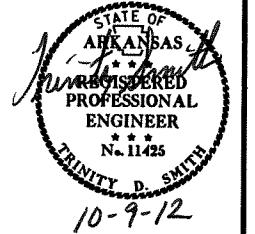
STATION	STATION	LOCATION	UNCLASSIFIED EXCAVATION	COMPACTED EMBANKMENT
			CU. YD.	
6217+07	6223+23	RIGHT SHOULDER WIDENING FOR GUARDRAIL	113	
6219+92	6225+78	LEFT SHOULDER WIDENING FOR GUARDRAIL	108	
6837+77		REMOVE CROSSOVER	200	
6832+20		CONSTRUCT NEW CROSSOVER		75
ENTIRE	PROJECT		200	200
TOTALS:			621	275

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID FOR AS PLAN QUANTITY.
 *NOTE: QUANTITIES ESTIMATED; TO BE USED IF AND WHERE DIRECTED TO BY THE ENGINEER.
 SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS.

MAIN LANE BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH FEET	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2") (PG-64-22)			
				TON / STATION	TON	AVG. WID. FEET	SQ. YD.	POUND / SQ. YD.	TON
6832+20		CONSTRUCT CROSSOVER	VAR.	VAR.	73.00	VAR.	165.4	220.0	17.2
6217+07	6217+55	RT SHOULDER TRANSITION	48.00	24.10	11.57	6.0	32.0	220.0	3.5
6217+55	6218+25	RT SHOULDER GUARDRAIL EXTRA-WIDENING	70.00	35.30	24.71	10.0	77.8	220.0	8.6
6218+25	6218+40	RT SHOULDER TRANSITION	15.00	32.40	4.86	8.8	14.7	220.0	1.6
6218+40	6221+90	RT SHOULDER GUARDRAIL WIDENING	350.00	29.50	103.25	7.5	291.7	220.0	32.1
6221+90	6222+05	RT SHOULDER TRANSITION	15.00	32.40	4.86	8.8	14.7	220.0	1.6
6222+05	6222+75	RT SHOULDER GUARDRAIL EXTRA-WIDENING	70.00	35.30	24.71	10.0	77.8	220.0	8.6
6222+75	6223+23	RT SHOULDER TRANSITION	48.00	24.10	11.57	6.0	32.0	220.0	3.5
6219+92	6220+25	LT SHOULDER TRANSITION	33.00	13.00	4.29	4.8	17.6	220.0	1.9
6220+25	6225+45	LT SHOULDER GUARDRAIL WIDENING	520.00	29.50	153.40	7.5	433.3	220.0	47.7
6225+45	6225+78	LT SHOULDER TRANSITION	33.00	13.00	4.29	4.8	17.6	220.0	1.9
TOTALS:				420.51			1174.6		128.2

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....94.5% MIN. AGGR.....5.5% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115



GUARDRAIL

STATION	STATION	SIDE	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
			LIN. FT.	EACH	
6217+65	6222+65	EB LANES SHOULDER	450	1	1
6220+35	6225+35	WB LANES SHOULDER	450	1	1
TOTALS:			900	2	2

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH FEET	WIDTH FEET	CONCRETE DITCH PAVING (TYPE B) SQ. YD.	SOLID SODDING	WATER M. GAL.
6018+37.60	6180+71.00	EB LANES EQUATION TO EQUATION	16233.40	4	7215	3607	45.4
6180+75.50	6217+55.00	EB LANES EQUATION TO MENIFEE OVERPASS	3679.50	4	1635	818	10.3
6222+75.00	6252+85.40	EB LANES MENIFEE OVERPASS TO EQUATION	3010.40	4	1338	669	8.4
6252+90.30	6357+69.30	EB LANES EQUATION TO EQUATION	10479.00	4	4657	2329	29.3
6819+00.00	6824+20.00	EB LANES EQUATION TO CADRON CREEK	520.00	4	231	116	1.5
6832+40.00	6850+50.00	WB LANES CADRON CREEK TO WIDER MEDIAN	1810.00	4	804	402	5.1
7011+50.00	7040+75.00	EB LANES EXIT 124 INTERCHANGE TO HWY. 25	2925.00	4	1300	650	8.2
7042+55.00	7082+00.00	WB LANES HWY. 25 TO HWY. 65	3945.00	4	1753	877	11.1
TOTALS:			48876.70		21722	10862	136.9

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

STRUCTURES

STATION	DESCRIPTION	SIDE DRAINS	STD. DWG. NOS.
		18" LIN. FT.	
6832+20	MEDIAN DRAIN AT CROSSOVER	44	PCM-1, PCC-1
TOTAL:		44	

WIRE ROPE SAFETY FENCE

STATION	STATION	LOCATION	WIRE ROPE SAFETY FENCE	WRSF ANCHOR*	WRSF MAINTENANCE MATERIALS
			LIN. FT.	EACH	LUMP SUM
5955+60.00	6018+34.40	EB LANES PLUMERVILLE INTERCHANGE TO EQUATION	6274.40	1	
6018+37.60	6180+71.00	EB LANES EQUATION TO EQUATION	16233.40		
6180+75.50	6218+15.00	EB LANES EQUATION TO MENIFEE OVERPASS	3739.50	1	
6222+15.00	6252+85.40	EB LANES MENIFEE OVERPASS TO EQUATION	3070.40	1	
6252+90.30	6357+69.30	EB LANES EQUATION TO EQUATION	10479.00		
6819+00.00	6824+20.00	EB LANES EQUATION TO CADRON CREEK	520.00	1	
6832+40.00	6850+50.00	WB LANES CADRON CREEK TO WIDER MEDIAN	1810.00	2	
7011+50.00	7040+75.00	EB LANES EXIT 124 INTERCHANGE TO HWY. 25	2925.00	2	
7042+55.00	7082+00.00	WB LANES HWY. 25 TO HWY. 65	3945.00	2	
ENTIRE	PROJECT				1.00
TOTALS:			48996.70	10	1.00

* THIS ITEM SHOWN FOR INFORMATION ONLY

NOTE: ALL SOILS INFORMATION DEEMED NECESSARY BY THE MANUFACTURER SHALL BE PROVIDED BY THE CONTRACTOR. REFER TO SPECIAL PROVISION " WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS".

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING CU. YD.
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.	5
TOTAL:	5

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

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		21	39

2 SUMMARY OF QUANTITIES AND REVISIONS



SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	TOTALS	UNIT
202	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	2	EACH
210	UNCLASSIFIED EXCAVATION	621	CU.YD.
210	COMPACTED EMBANKMENT	275	CU.YD.
SS& 303	AGGREGATE BASE COURSE (CLASS 7)	421	TON
SP, SS& 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	121	TON
SP, SS& 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	7	TON
601	MOBILIZATION	1.00	LUMP SUM
SP, SS& 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS& 604	SIGNS	724	SQ.FT.
SS& 604	TRAFFIC DRUMS	469	EACH
SP, SS& 604	PORTABLE CHANGEABLE MESSAGE SIGN	63	WEEK
SS& 604	ADVANCE WARNING ARROW PANEL	50	DAY
SP& 605	CONCRETE DITCH PAVING (TYPE B)	21722	SQ.YD.
SP, SS& 606	18" SIDE DRAIN	44	LIN.FT.
606	SELECTED PIPE BEDDING	5	CU.YD.
SS& 617	GUARDRAIL (TYPE A)	900	LIN.FT.
SS& 617	TERMINAL ANCHOR POSTS (TYPE 1)	2	EACH
SS& 617	GUARDRAIL TERMINAL (TYPE 2)	2	EACH
620	LIME	1	TON
620	SEEDING	0.26	ACRE
620	MULCH COVER	0.46	ACRE
SS& 620	WATER	167.6	M.GAL.
621	TEMPORARY SEEDING	0.20	ACRE
621	SAND BAG DITCH CHECKS	1760	BAG
621	DROP INLET SILT FENCE	1332	LIN.FT.
621	SEDIMENT REMOVAL AND DISPOSAL	75	CU.YD.
623	SECOND SEEDING APPLICATION	0.26	ACRE
624	SOLID SODDING	10862	SQ.YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE	48997	LIN.FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM

REVISIONS

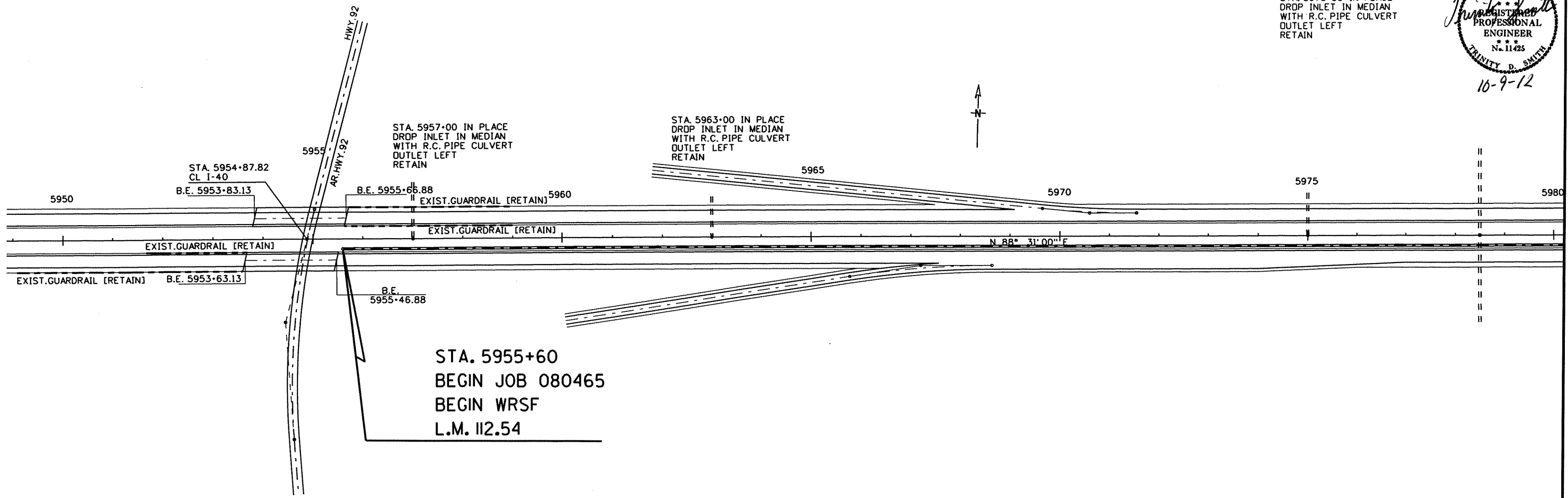
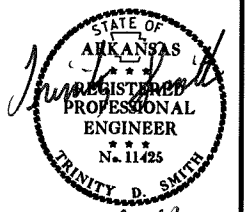
DATE		SHEET NUMBER

SUMMARY OF QUANTITIES AND REVISIONS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		22	39

② PLAN SHEETS

STA. 5975+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
OUTLET LEFT
RETAIN

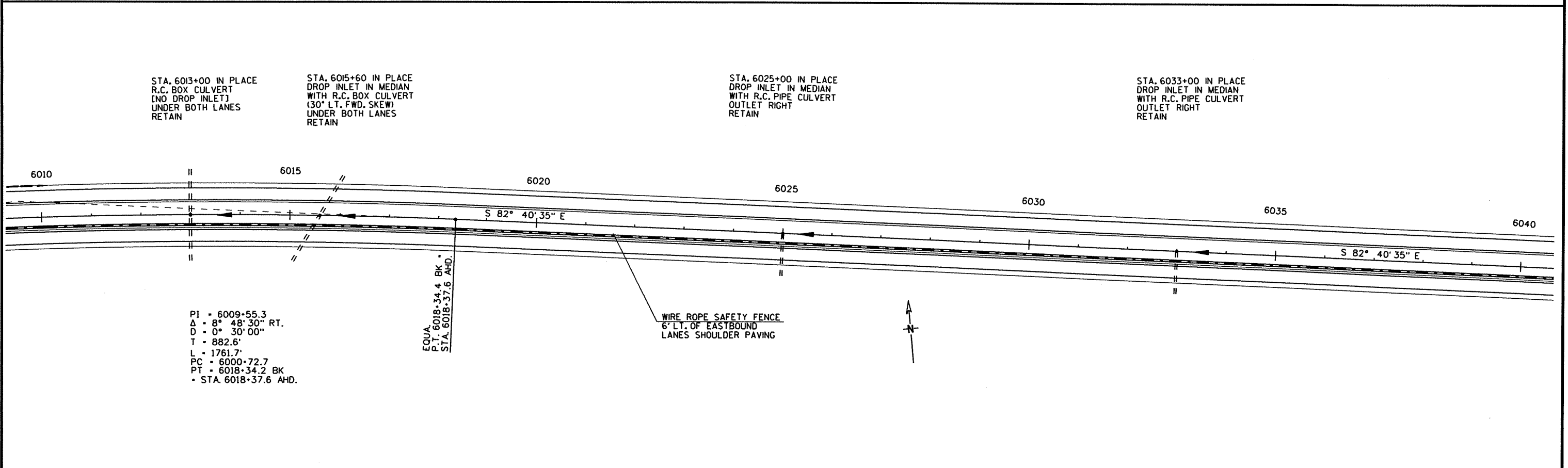
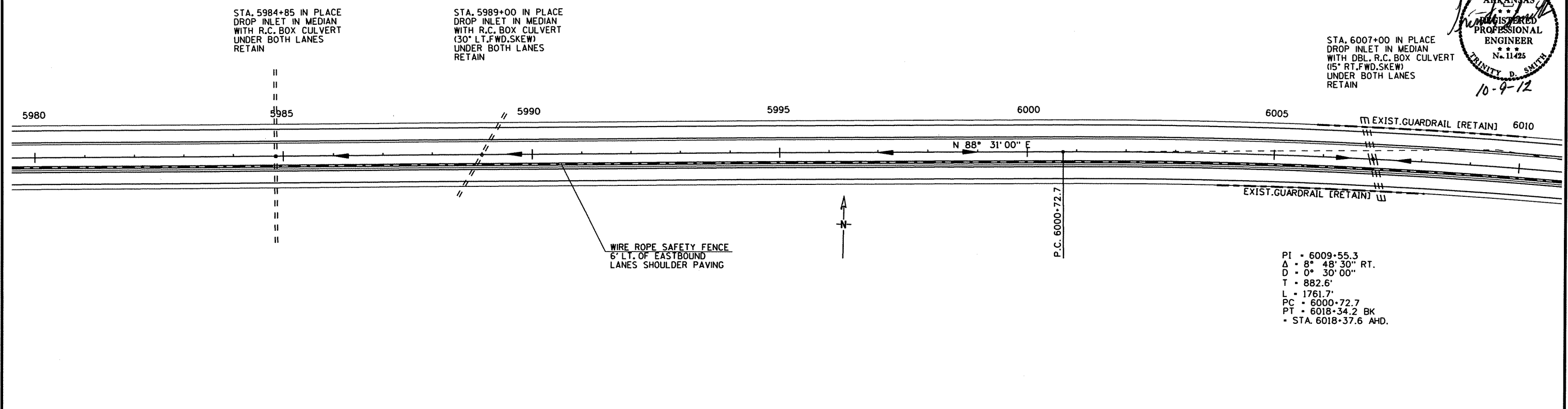
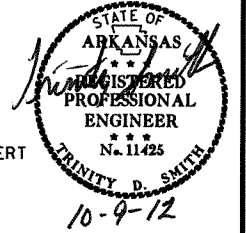


r080465.dgn plan sheets 9/27/12

PLAN SHEETS STA.5949+00 - STA.5980+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							23	39

② PLAN SHEETS



PLAN SHEETS STA.5980+00 - STA.6040+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		24	39
JOB NO. 080465								

2 PLAN SHEETS

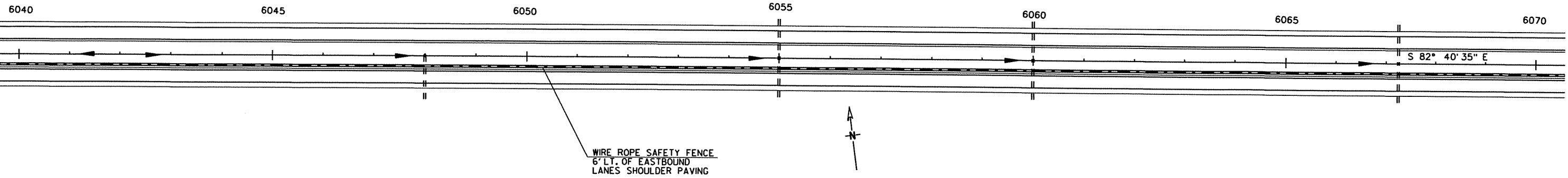


STA. 6048+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
OUTLET RIGHT
RETAIN

STA. 6055+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 6060+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 6067+25 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

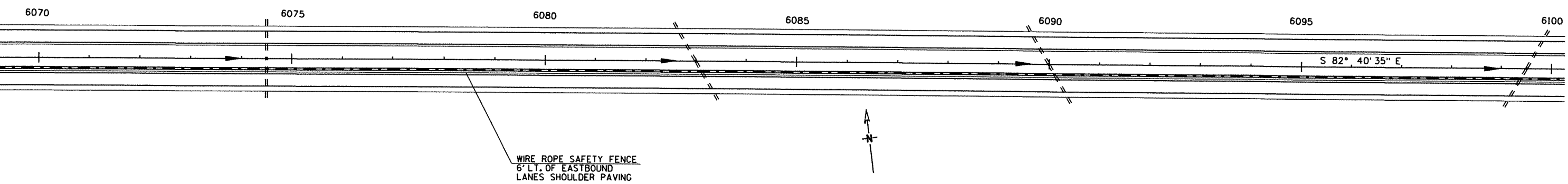


STA. 6074+50 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. BOX CULVERT
UNDER BOTH LANES
RETAIN

STA. 6083+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
(30° RT.FWD. SKEW)
UNDER BOTH LANES
RETAIN

STA. 6090+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
(30° RT.FWD. SKEW)
UNDER BOTH LANES
RETAIN

STA. 6099+50 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
(30° LT.FWD. SKEW)
UNDER BOTH LANES
RETAIN



r080465.dgn plan sheets 9/27/12

PLAN SHEETS STA.6040+00 - STA.6100+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		25	39

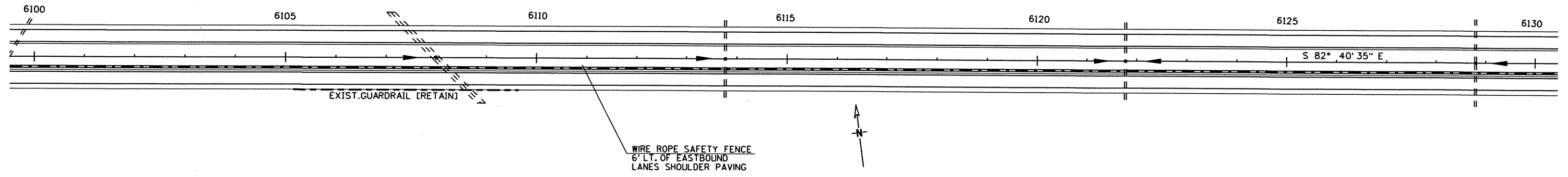
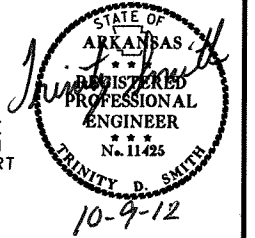
② PLAN SHEETS

STA. 6108+00 IN PLACE
DROP INLET IN MEDIAN
WITH DBL. R.C. BOX CULVERT
(45° RT. FWD. SKEW)
UNDER BOTH LANES
RETAIN

STA. 6113+77 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 6121+78 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 6128+80 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN



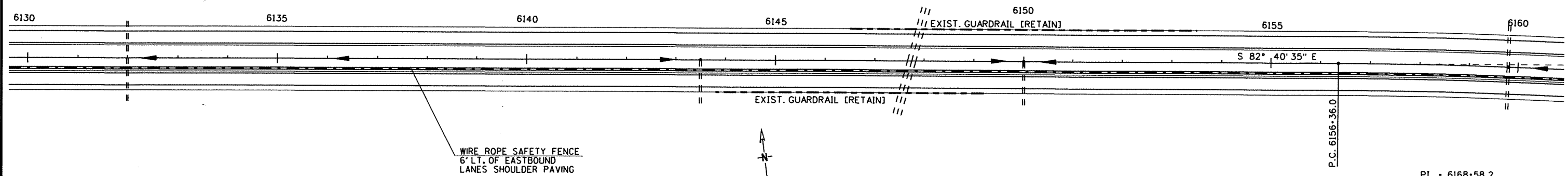
STA. 6132+00 IN PLACE
R.C. PIPE CULVERT UNDER BOTH LANES
(NO DROP INLET)
RETAIN

STA. 6143+50 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RT. LANES
RETAIN

STA. 6147+75 IN PLACE
DBL. BOX CULV'T UNDER BOTH LANES
(15° LT. FWD. SKEW)
(NO DROP INLET)
RETAIN

STA. 6150+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RT. LANES
RETAIN

STA. 6159+80 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

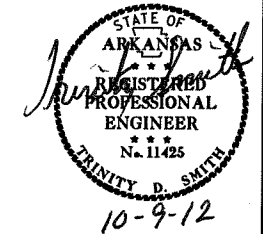


PI - 6168+58.2
Δ - 12° 11' 30" RT.
D - 0° 30' 00"
T - 1222.2'
L - 2435.0'
PC - 6156+36.0
PT - 6180+71.0 BK
- STA. 6180+75.5 AHD.

PLAN SHEETS STA. 6100+00 - STA. 6160+00

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							26	39

2 PLAN SHEETS



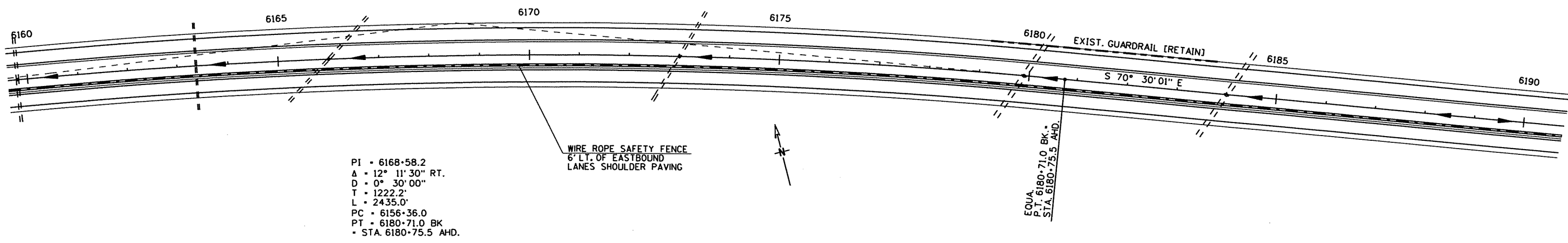
STA. 6163+38 IN PLACE
R.C. PIPE CULV'T UNDER BOTH LANES
[NO DROP INLET]
RETAIN

STA. 6166+00 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
[45° LT. FWD.SKEW]
RETAIN

STA. 6173+00 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
[30° LT. FWD.SKEW]
RETAIN

STA. 6179+90 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. BOX CULVERT
UNDER BOTH LANES
[30° LT. FWD.SKEW]
RETAIN

STA. 6184+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. BOX CULVERT
UNDER BOTH LANES
[30° LT. FWD.SKEW]
RETAIN



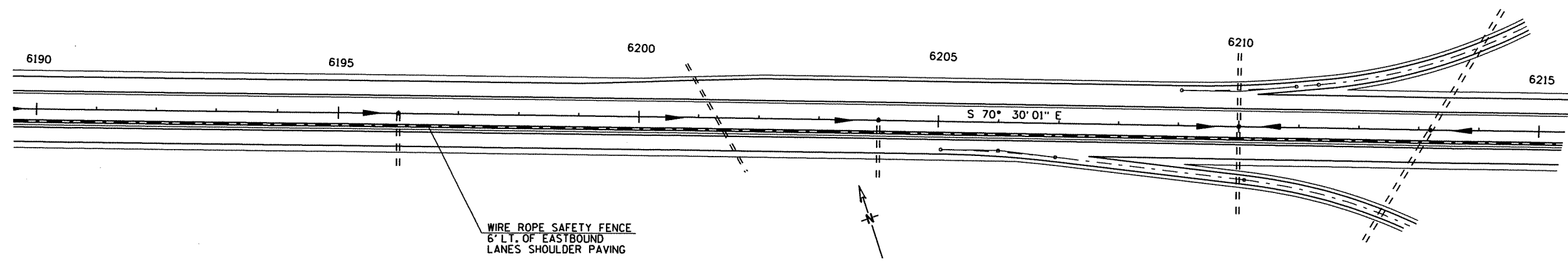
STA. 6196+00 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RT. LANES
RETAIN

STA. 6201+30 IN PLACE
R.C. PIPE CULV'T UNDER BOTH LANES
[30° RT.FWD. SKEW]
[NO DROP INLET]
RETAIN

STA. 6204+00 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RT. LANES
RETAIN

STA. 6210+00 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 6213+20 IN PLACE
DRDP INLET IN MEDIAN
WITH R.C. BOX CULVERT
UNDER BOTH LANES
RETAIN

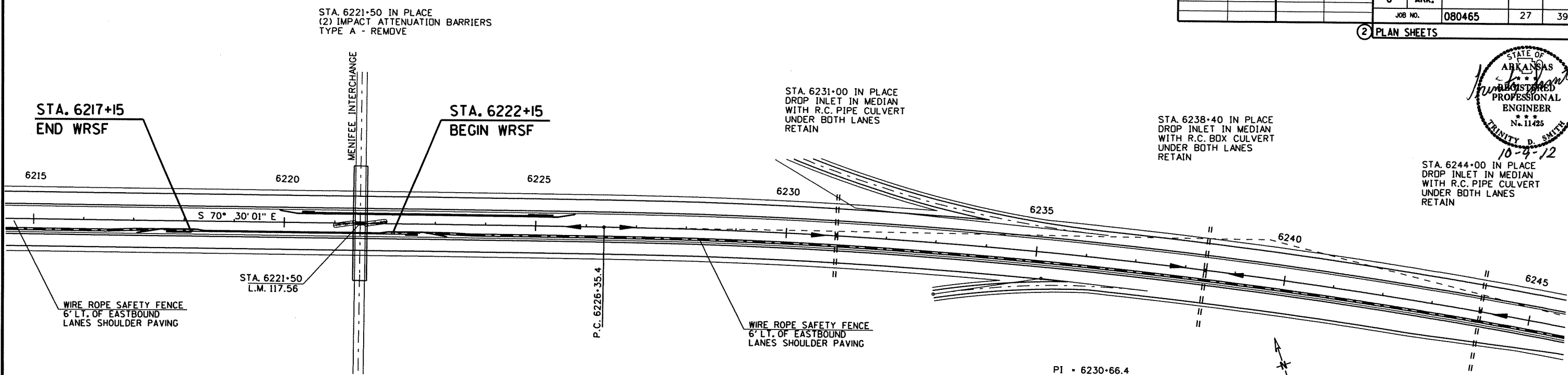
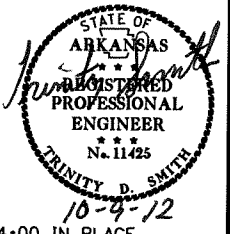


r080465.dgn plan sheets 9/27/12

PLAN SHEETS STA.6160+00 - STA.6215+00

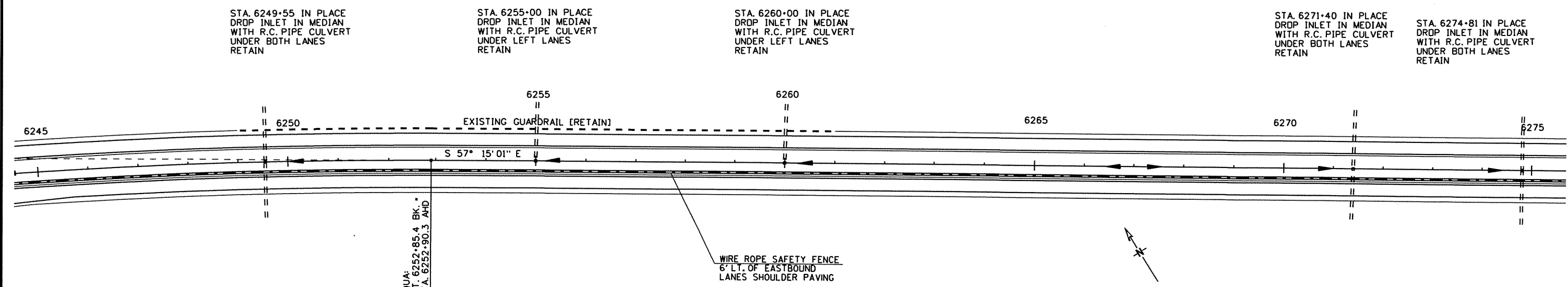
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 080465	27	39

2 PLAN SHEETS



PI = 6230+66.4
 Δ = 13° 15' 00" RT.
 D = 0° 30' 00"
 T = 1331.0'
 L = 2630.0'
 PC = 6226+35.4
 PT = 6252+85.4 BK
 • STA. 6252+90.3 AHD.

GUARDRAIL	GUARDRAIL (TYPE A)	TERMINAL ANCHOR POST (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
STA. 6217+65 - STA. 6222+65 EB	450 LIN.FT.	1 EACH	1 EACH
STA. 6220+35 - STA. 6225+35 WB	450 LIN.FT.	1 EACH	1 EACH



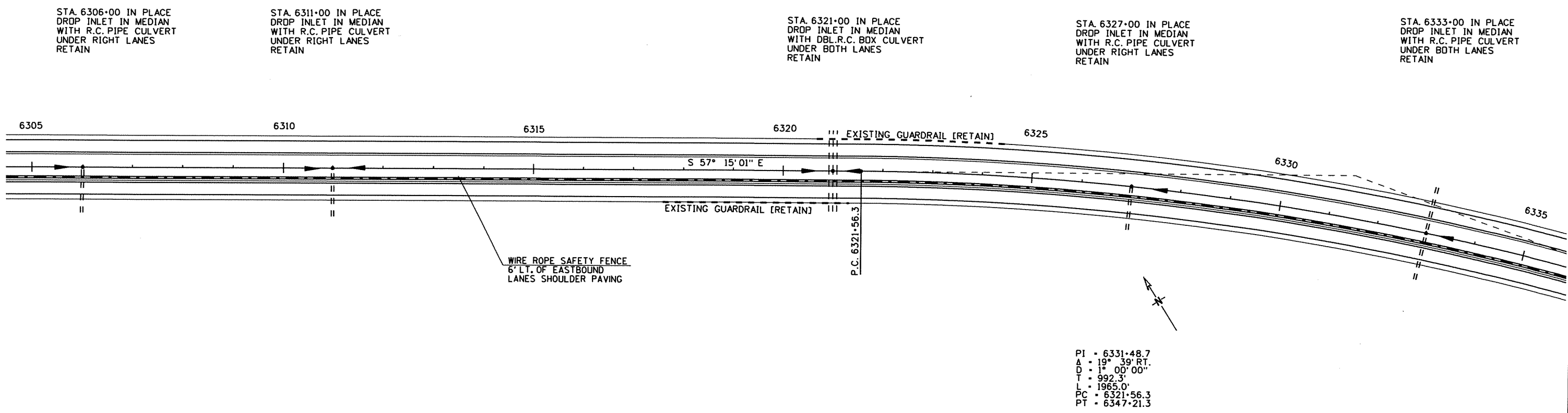
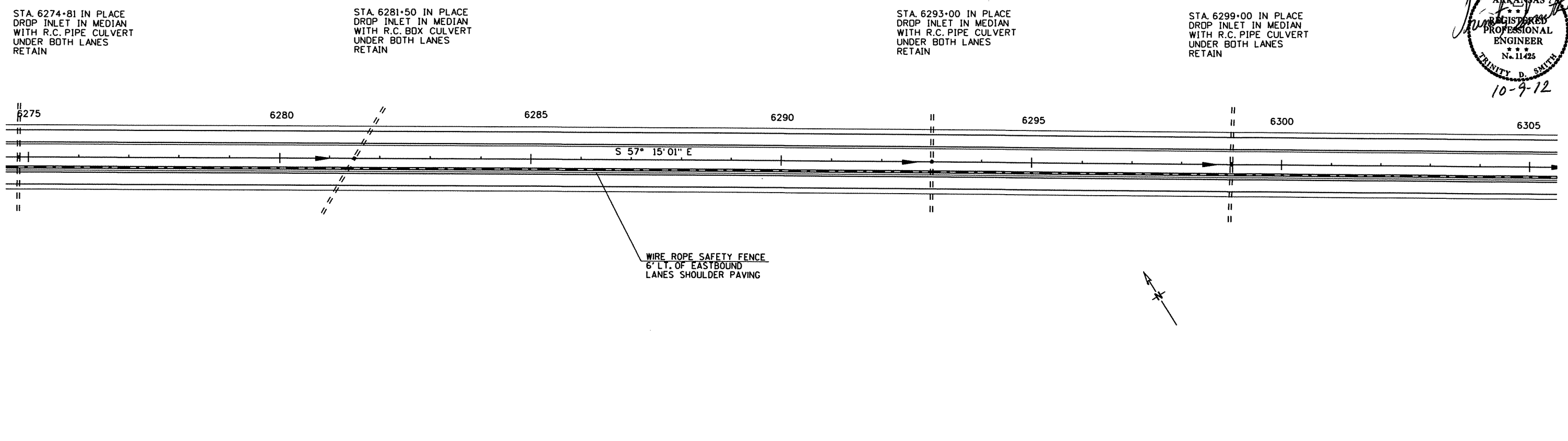
PI = 6230+66.4
 Δ = 13° 15' 00" RT.
 D = 0° 30' 00"
 T = 1331.0'
 L = 2630.0'
 PC = 6226+35.4
 PT = 6252+85.4 BK
 • STA. 6252+90.3 AHD.

PLAN SHEETS STA. 6215+00 - STA. 6275+00

r080465.dgn plan sheets 9/27/12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							28	39

2 PLAN SHEETS

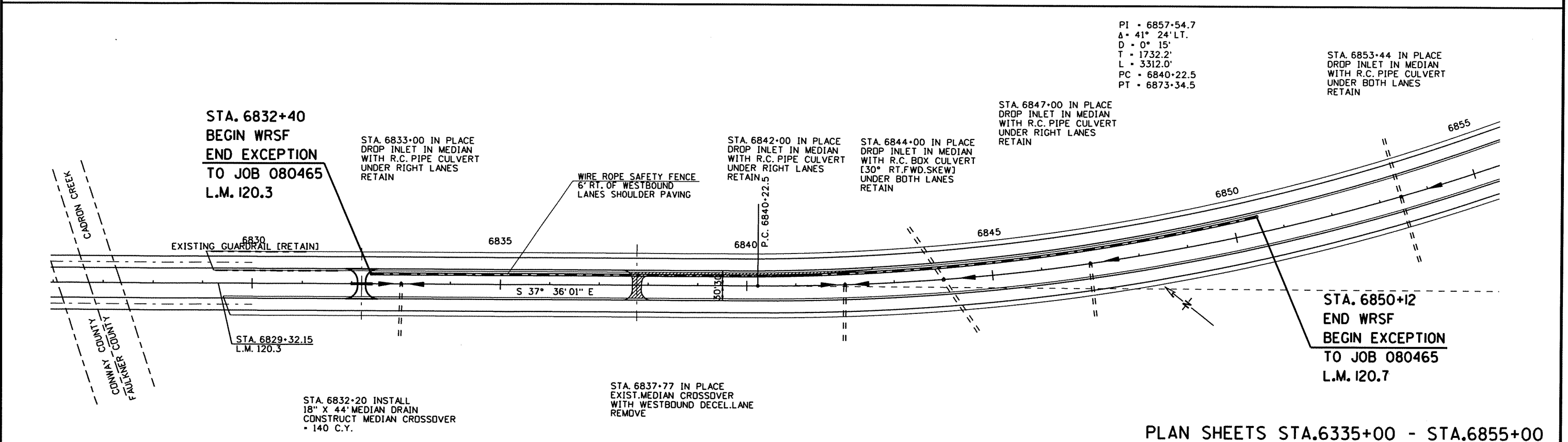
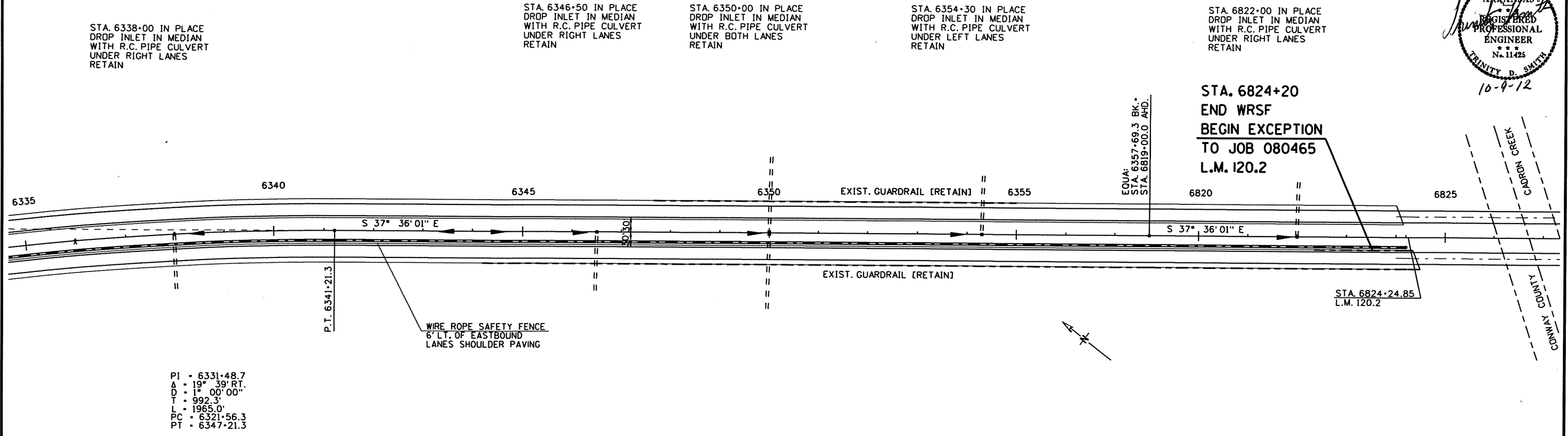
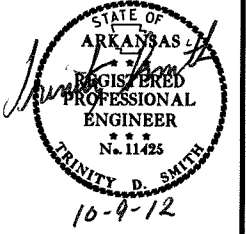


PLAN SHEETS STA.6275+00 - STA.6335+00

r080465.dgn plan sheets 9/27/12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 080465							29	39

2 PLAN SHEETS

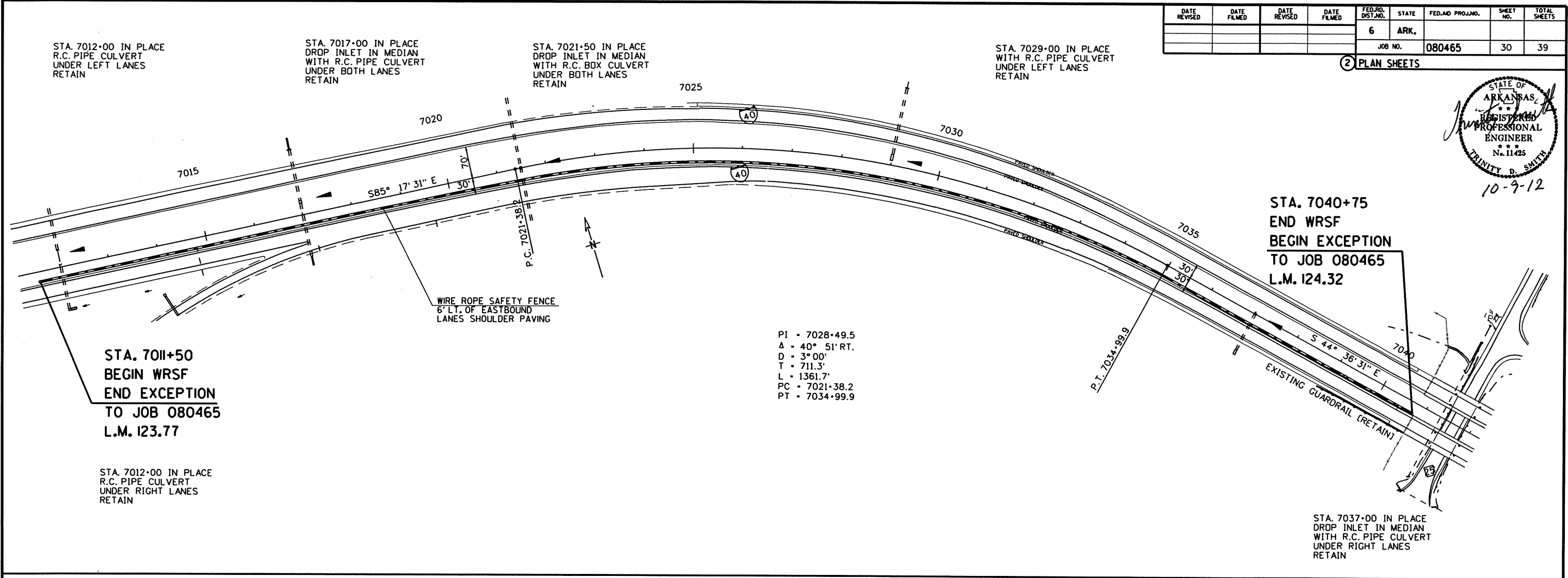
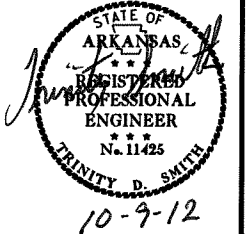


PLAN SHEETS STA.6335+00 - STA.6855+00

r012150.dgn plan sheets 9/18/12

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	080465		30	39

2 PLAN SHEETS



STA. 7012+00 IN PLACE
R.C. PIPE CULVERT
UNDER LEFT LANES
RETAIN

STA. 7017+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 7021+50 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. BOX CULVERT
UNDER BOTH LANES
RETAIN

STA. 7029+00 IN PLACE
WITH R.C. PIPE CULVERT
UNDER LEFT LANES
RETAIN

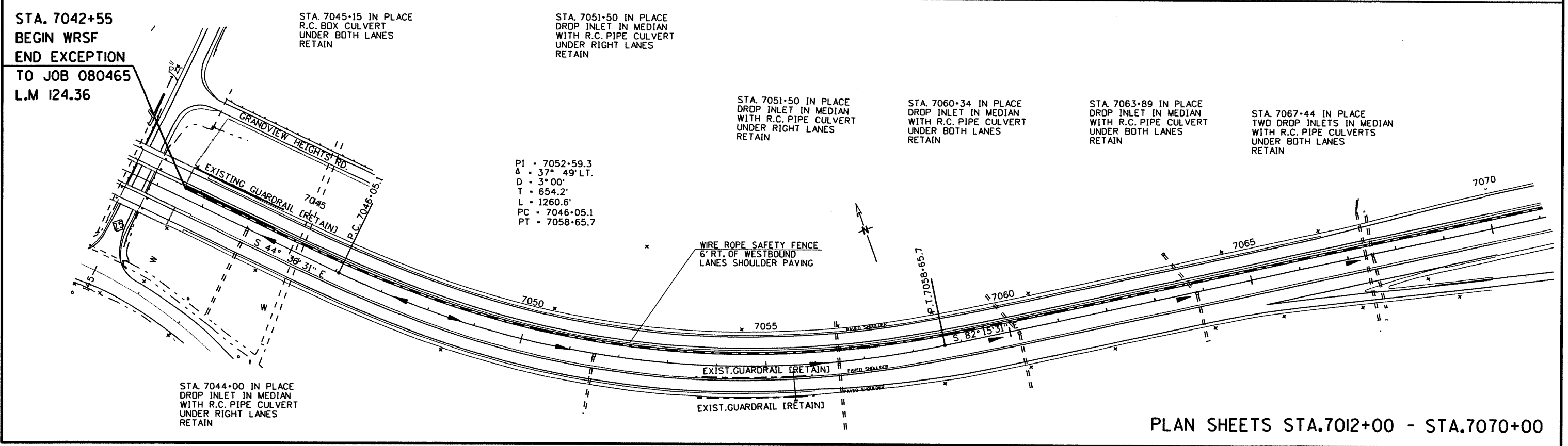
STA. 7011+50
BEGIN WRSF
END EXCEPTION
TO JOB 080465
L.M. 123.77

STA. 7012+00 IN PLACE
R.C. PIPE CULVERT
UNDER RIGHT LANES
RETAIN

STA. 7040+75
END WRSF
BEGIN EXCEPTION
TO JOB 080465
L.M. 124.32

PI = 7028+49.5
Δ = 40° 51' RT.
D = 3° 00'
T = 711.3'
L = 1361.7'
PC = 7021+38.2
PT = 7034+99.9

STA. 7037+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RIGHT LANES
RETAIN



STA. 7042+55
BEGIN WRSF
END EXCEPTION
TO JOB 080465
L.M. 124.36

STA. 7045+15 IN PLACE
R.C. BOX CULVERT
UNDER BOTH LANES
RETAIN

STA. 7051+50 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RIGHT LANES
RETAIN

STA. 7051+50 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RIGHT LANES
RETAIN

STA. 7060+34 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 7063+89 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER BOTH LANES
RETAIN

STA. 7067+44 IN PLACE
TWO DROP INLETS IN MEDIAN
WITH R.C. PIPE CULVERTS
UNDER BOTH LANES
RETAIN

PI = 7052+59.3
Δ = 37° 49' LT.
D = 3° 00'
T = 654.2'
L = 1260.6'
PC = 7046+05.1
PT = 7058+65.7

STA. 7044+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RIGHT LANES
RETAIN

PLAN SHEETS STA. 7012+00 - STA. 7070+00

r080465.dgn plan sheets 9/27/12

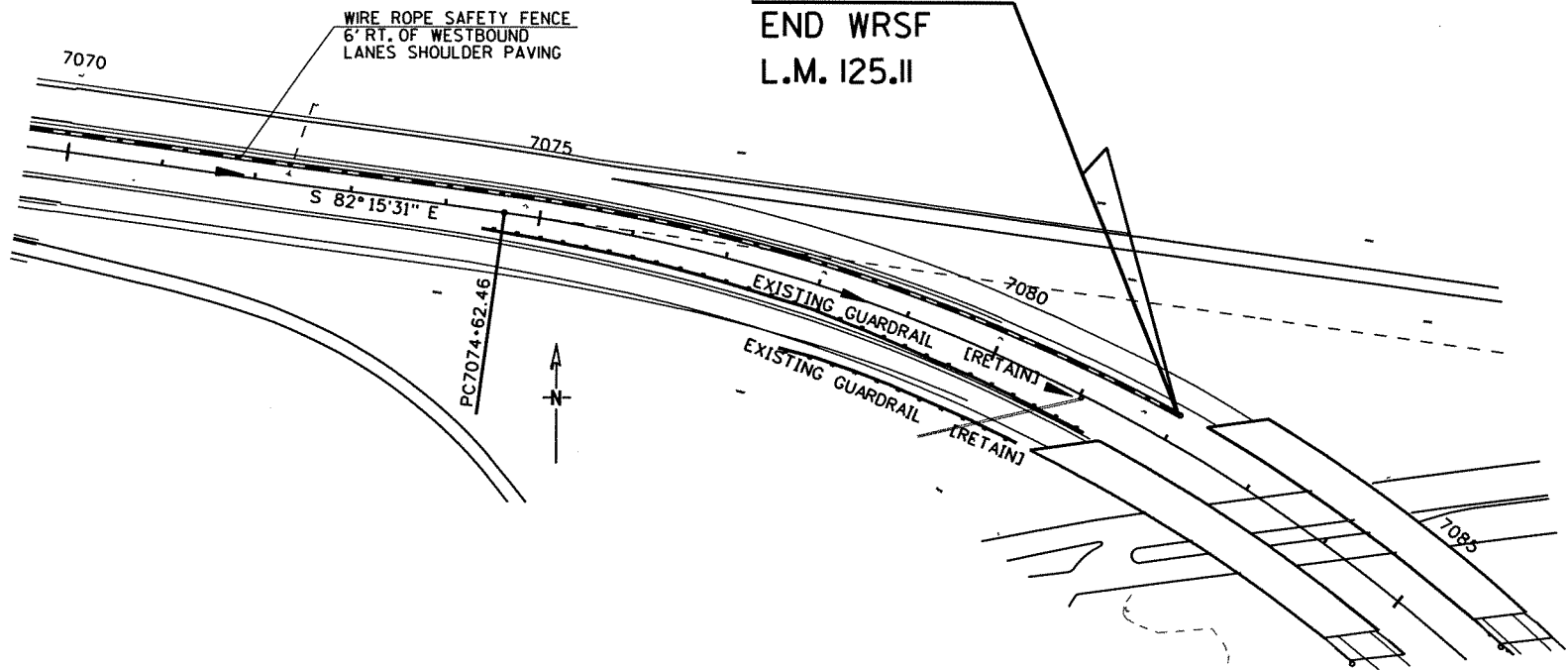
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
							JOB NO.	080465
								31
								39

2 PLAN SHEETS



STA. 7081+00 IN PLACE
DROP INLET IN MEDIAN
WITH R.C. PIPE CULVERT
UNDER RIGHT LANES
RETAIN

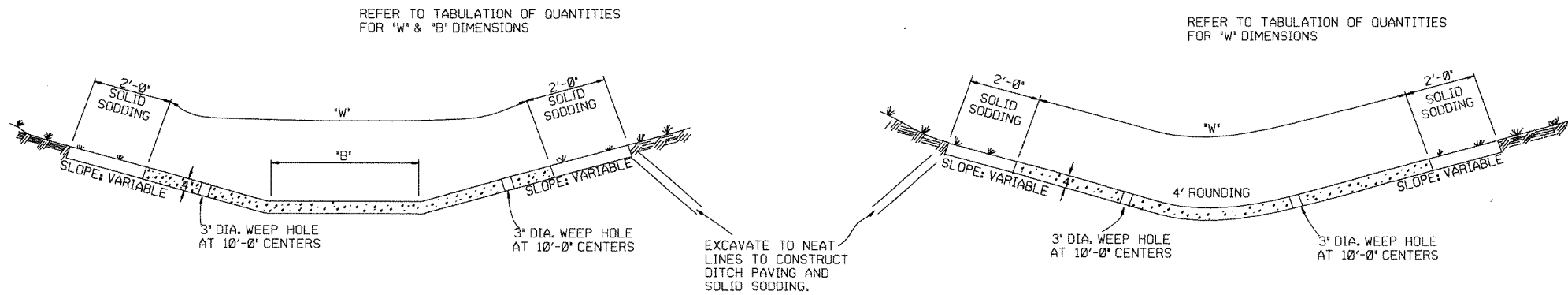
STA. 7082+00
END JOB 080465
END WRSF
L.M. 125.11



PI = 7091+84.92
Δ = 83° 57' 58.7" RT.
D = 2° 59' 36.0"
T = 1722.46'
L = 2805.12'
PC = 7074+62.46
PT = 7102+67.58

r080465.dgn plan sheets 9/27/12

PLAN SHEETS STA.7070+00 - STA.7085+00



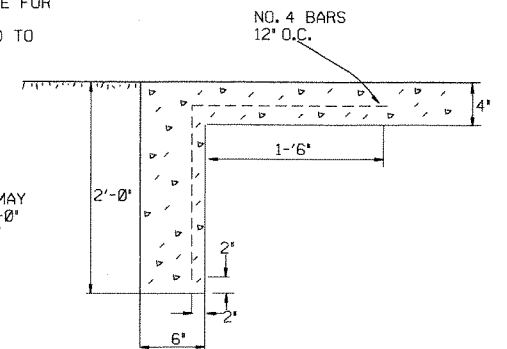
TYPE A

TYPE B

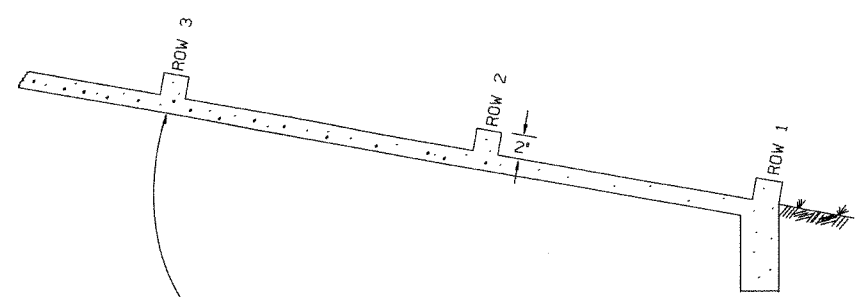
REFER TO TABULATION OF QUANTITIES FOR 'W' & 'B' DIMENSIONS

REFER TO TABULATION OF QUANTITIES FOR 'W' DIMENSIONS

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.'

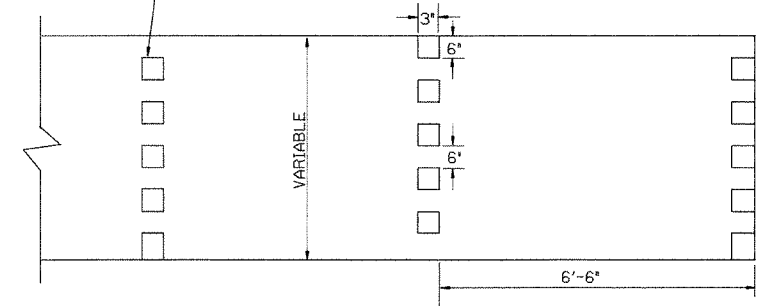


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED

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.

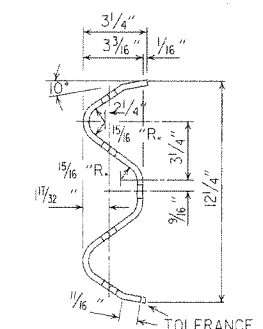
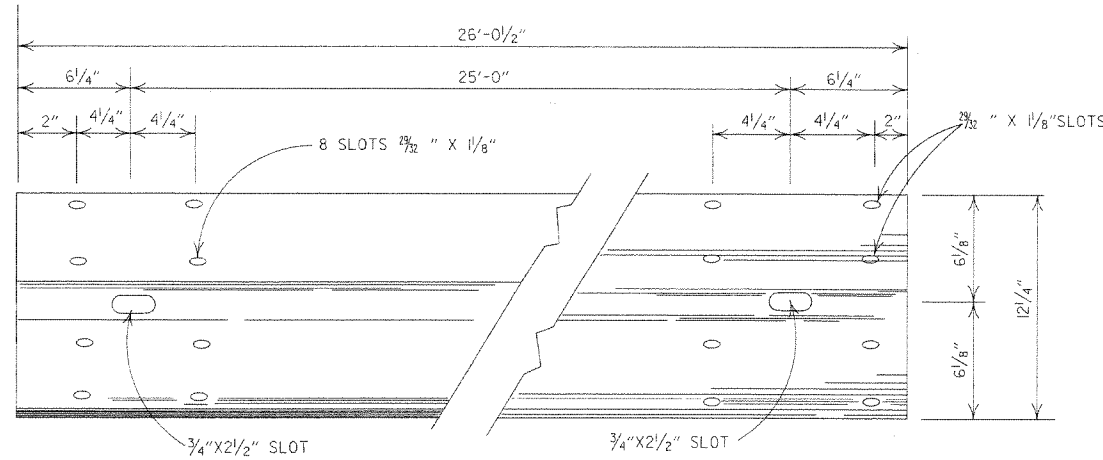
1' WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	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.	532-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS	508-11-1-84
11-1-84	ADDED EXCAVATION DETAILS	
10-2-72	TYPED A & B REVISED AND REDRAWN	508-10-2-72

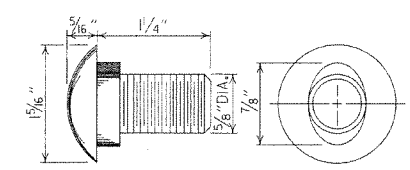
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

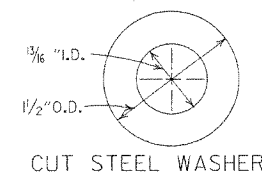
STANDARD DRAWING CDP-1



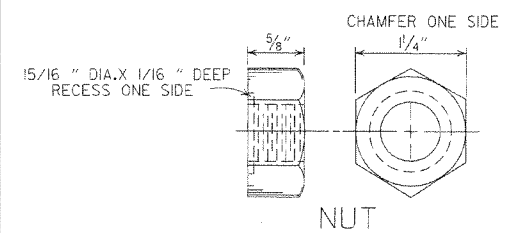
DETAILS OF W-BEAM GUARD RAIL
 RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



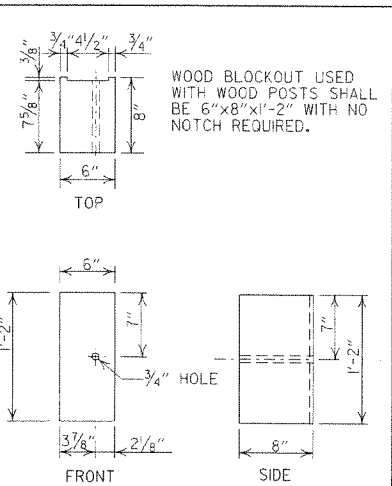
SPLICE BOLT
 POST BOLT - SAME EXCEPT LENGTH



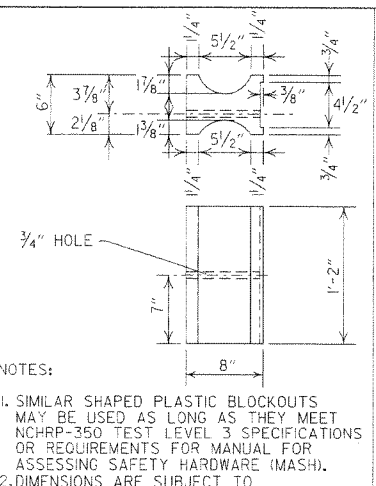
CUT STEEL WASHER



NUT

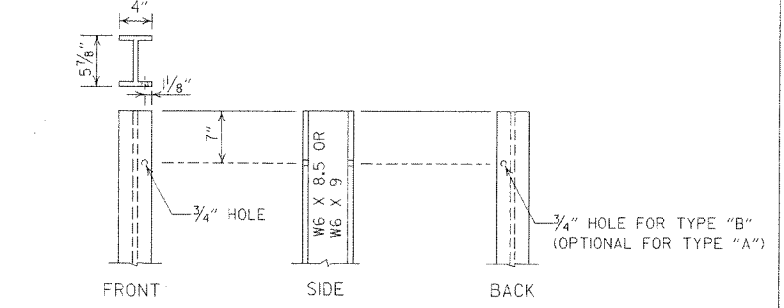


WOOD BLOCKOUT (W-BEAM)

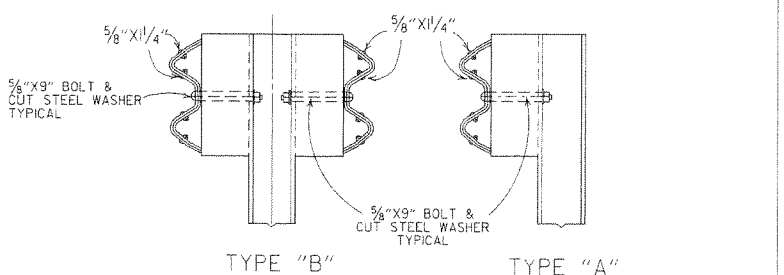


PLASTIC BLOCKOUT (W-BEAM)

NOTES:
 1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
 2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.



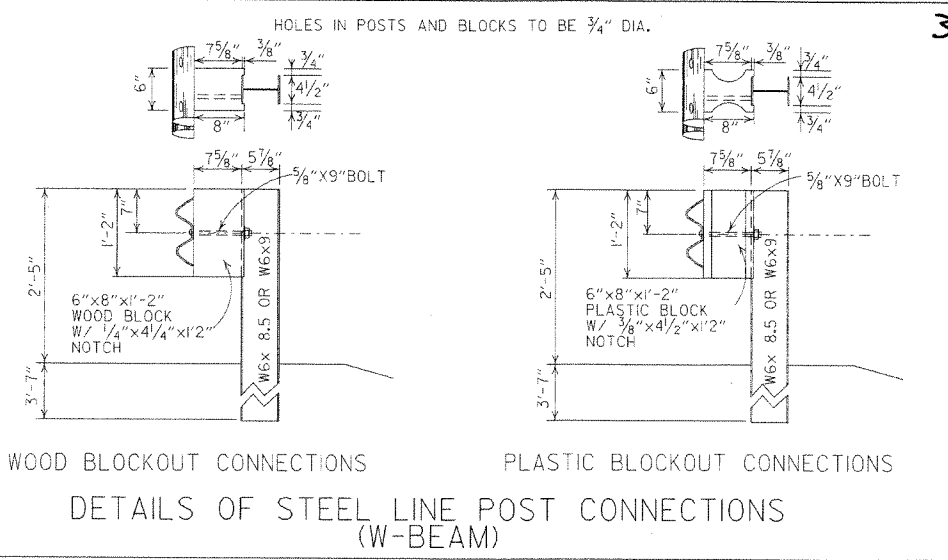
STEEL POST



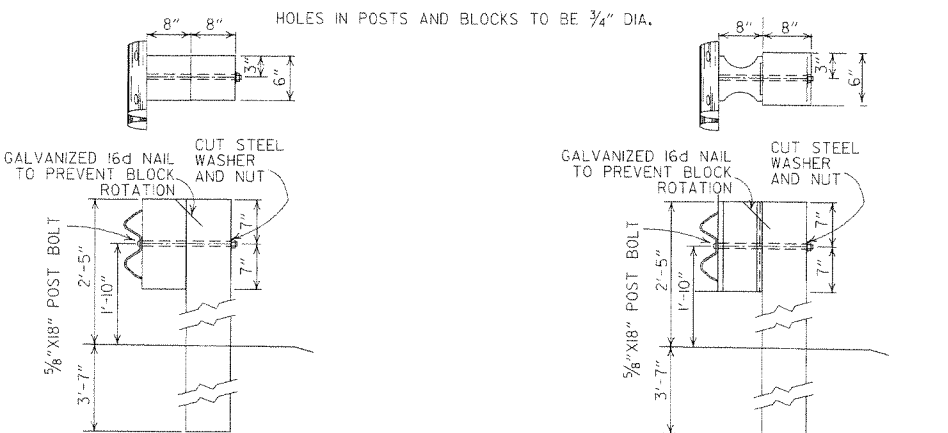
DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
 WHERE W-BEAM GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.
 W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.
 USE W-BEAM GUARD RAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARD RAIL, W-BEAM GUARD RAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.
 ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.
 WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7F (4400 F) OR NO. 1 350 F SOUTHERN PINE.
 CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARD RAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARD RAIL.



WOOD BLOCKOUT CONNECTIONS
PLASTIC BLOCKOUT CONNECTIONS
DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



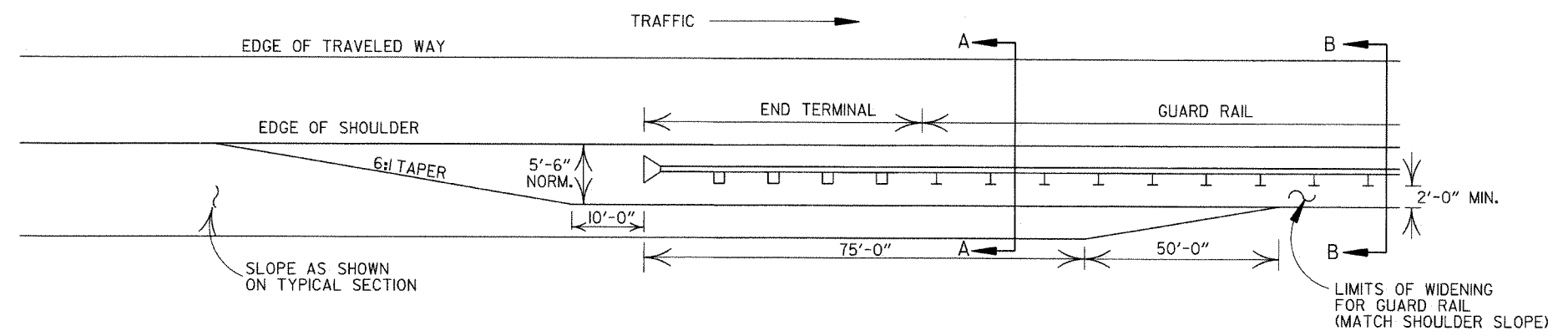
WOOD BLOCKOUT CONNECTIONS
PLASTIC BLOCKOUT CONNECTIONS
DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

7-14-10	RAISED HEIGHT OF GUARD RAIL 1"	
10-15-09	ADDED REFERENCE TO MASH	
4-10-03	REVISED GENERAL NOTES	
8-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & ON STEEL POST	
11-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS	
3-30-00	REMOVED GUARD RAIL AT BRIDGE ENDS	
11-2-00	ADDED PLASTIC BLOCKOUT	
8-12-98	REV. BLOCKOUTS TO WOOD, DELETED CONC. POST & REV. GENERAL NOTE DELETED DET. OF GUARD RAIL REPLACE BEHIND CURB & DET. OF POST PLACE IN SOLID ROCK & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES	
4-3-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS	
10-18-96	REVISED WOOD POST NOTE	
6-2-94	ADDED ALT. STEEL POST SIZE	
8-5-93	REVISED STEEL POST SIZE	8-5-93
10-1-92	REDRAWN & REVISED	10-1-92
8-15-91	REVISED WASHER NOTE	8-5-91
8-2-90	REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK	8-2-90
7-15-88	REVISED SECTION 3 & GENERAL NOTES	
3-4-88	REV. ANCHOR POST, ELEV. NOTES & POST IN ROCK	780-3-4-88
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87
10-9-87	REDRAWN & REVISED	802-10-9-87
DATE	REVISION	DATE FILM

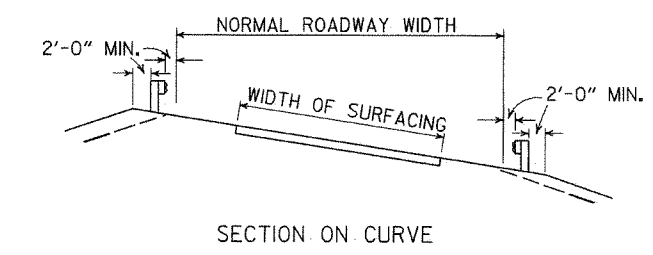
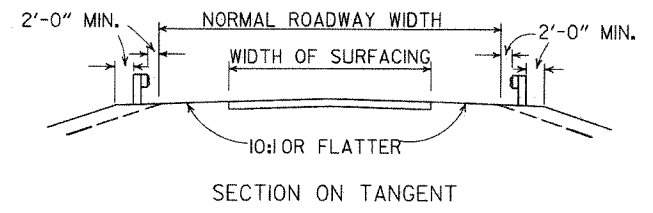
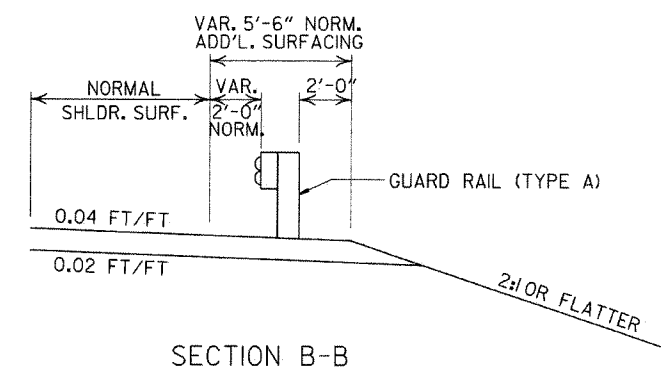
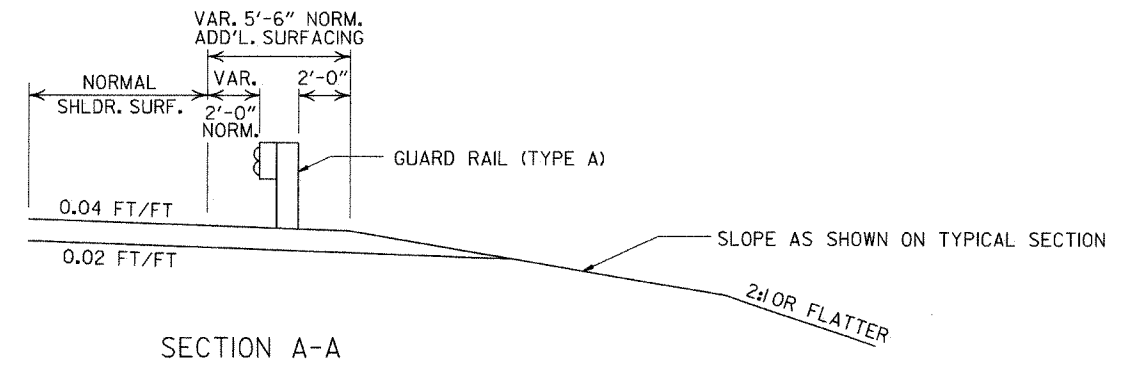
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-8

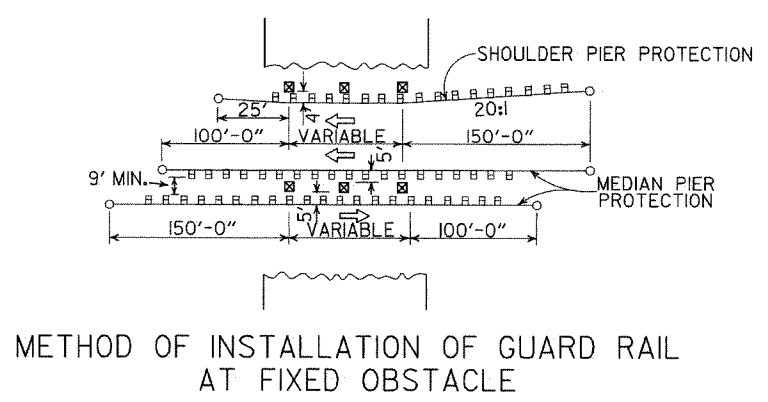


NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARD RAIL.

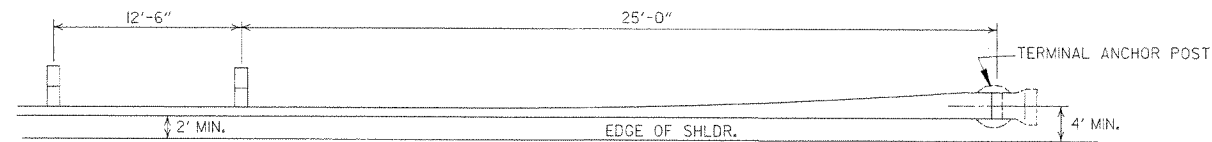


DETAILS OF WIDENING FOR GUARD RAIL

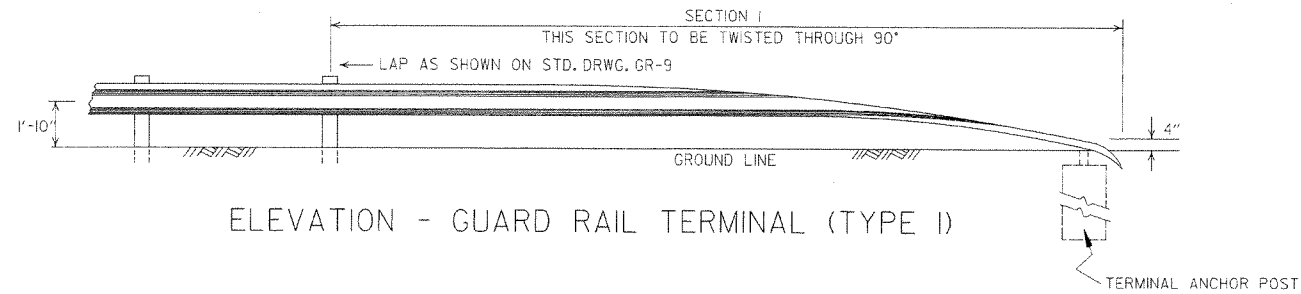
DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY



ARKANSAS STATE HIGHWAY COMMISSION			
GUARD RAIL DETAILS			
STANDARD DRAWING GR-9A			
4-17-08	MINOR REVISION		
11-10-05	DRAWN		
DATE	REVISION	DATE	FILM

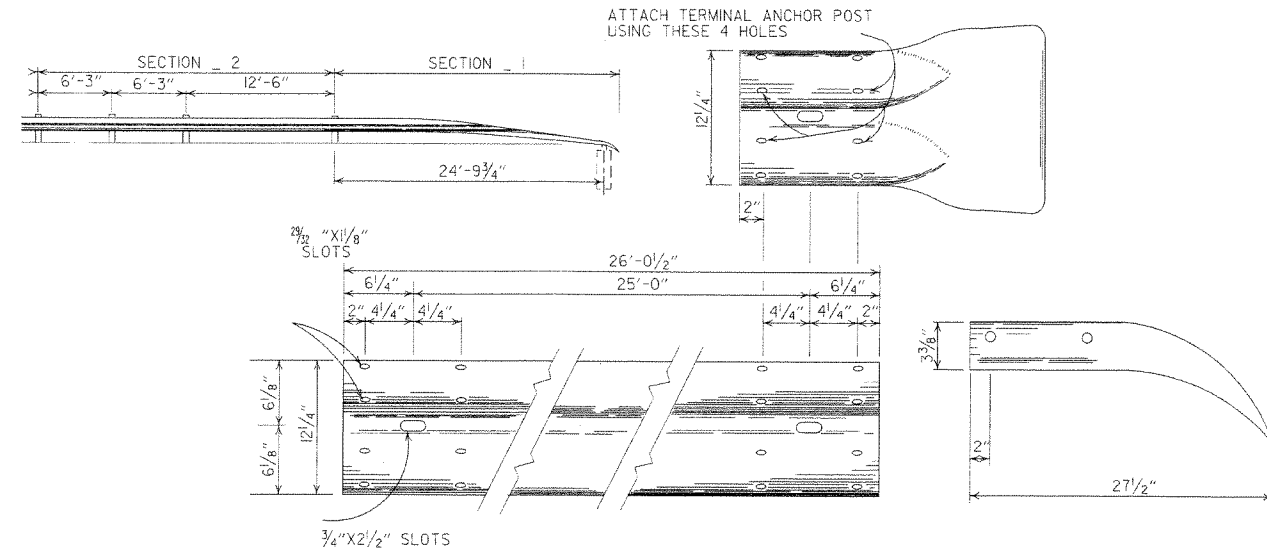


PLAN - GUARD RAIL TERMINAL (TYPE I)



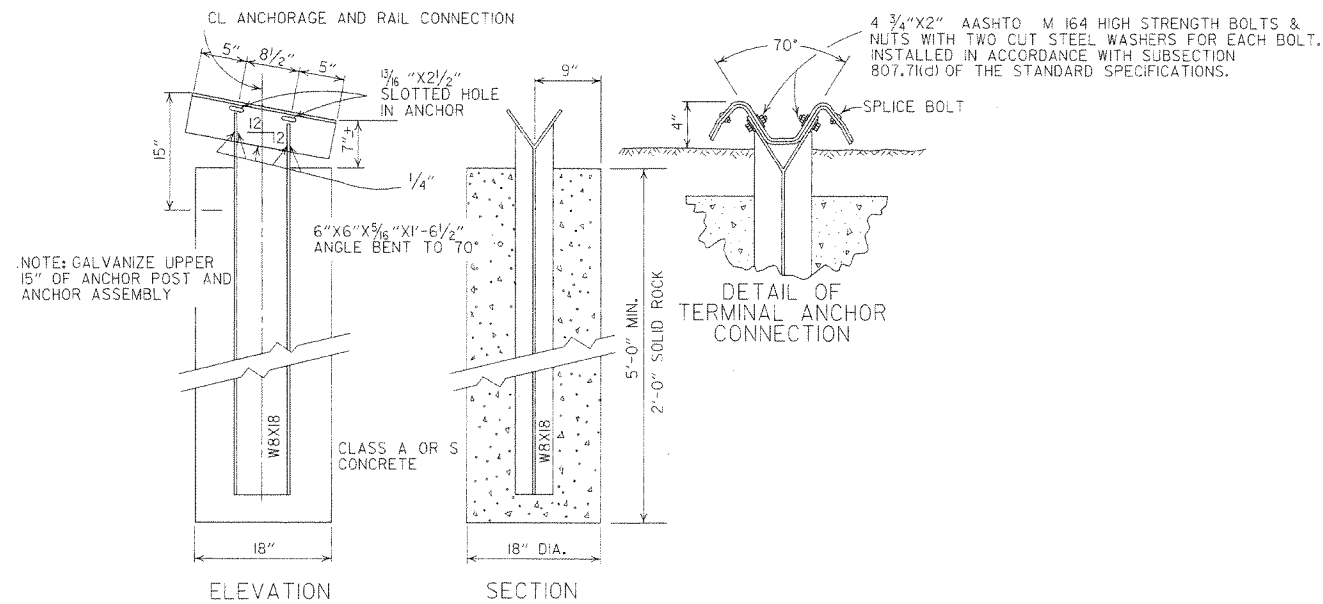
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

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



SECTION 1

TERMINAL SECTION



DETAIL OF TERMINAL ANCHOR POST (TYPE I)

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

			ARKANSAS STATE HIGHWAY COMMISSION
			GUARD RAIL DETAILS
			STANDARD DRAWING GRT-1
7-14-10	RAISED HEIGHT OF GUARD RAIL 1"		
6-26-97	REVISED LAP NOTE		
10-18-96	REVISED ASTM REF. TO AASHTO		
11-3-94	DIMENSION TERMINAL DETAIL		
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92	
10-1-92	DRAWN & ISSUED	10-1-92	
DATE	REVISION	DATE	FILM

ADVANCE DISTANCES
(XXXX)

500 FT	1/2 MILE
1000 FT	3/4 MILE
1500 FT	1 MILE AHEAD

GENERAL NOTES:


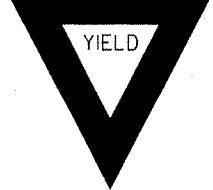
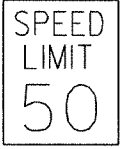
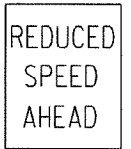

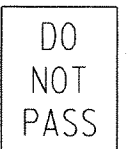

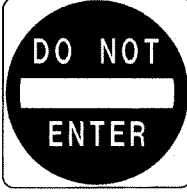

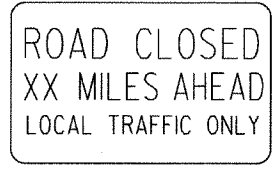
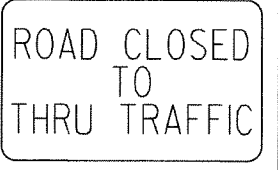
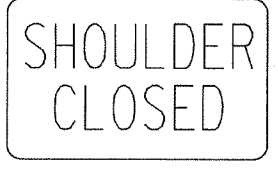
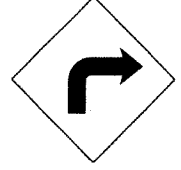
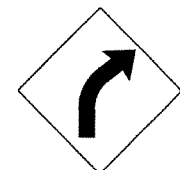


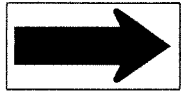

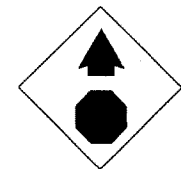
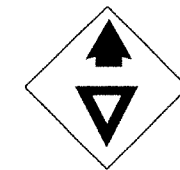
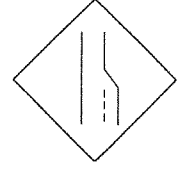

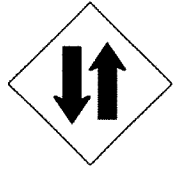

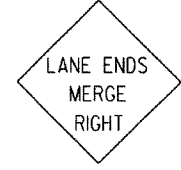




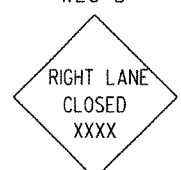



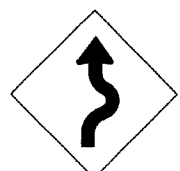
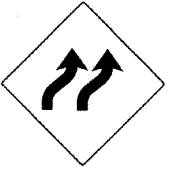

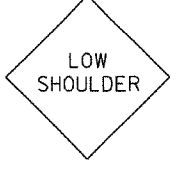
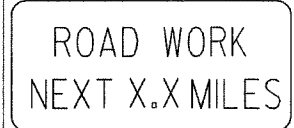
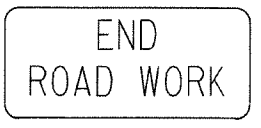
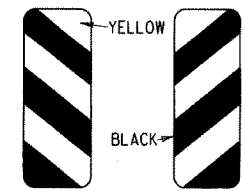



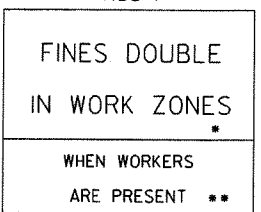
- ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START 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.
- 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.
- 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.
- 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.
- 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.
- 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.

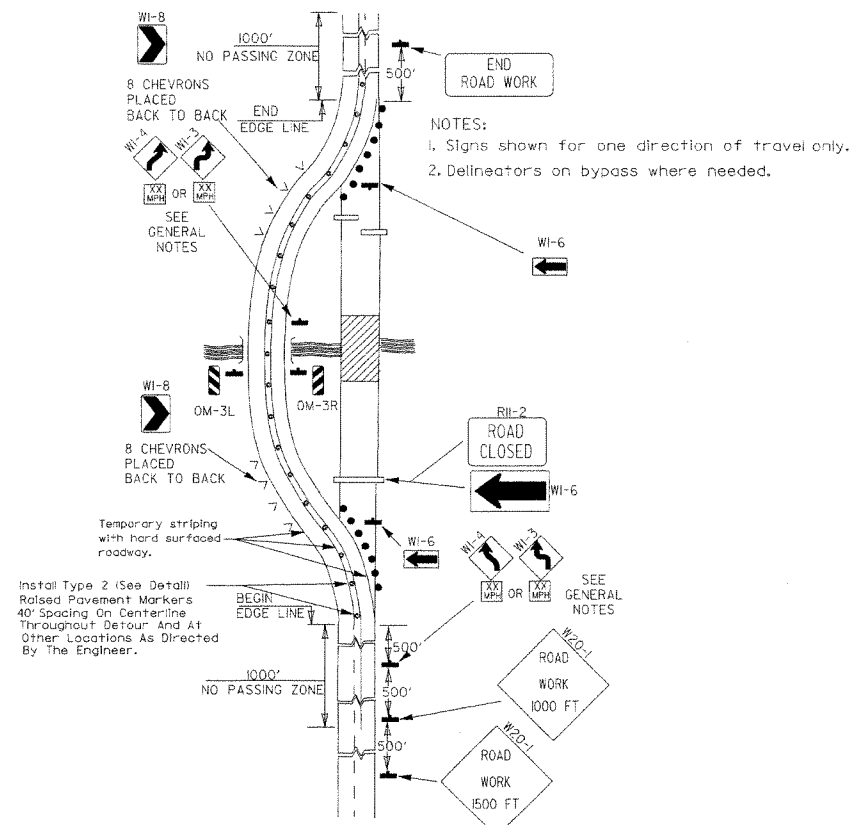
- FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
- MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
- 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 NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

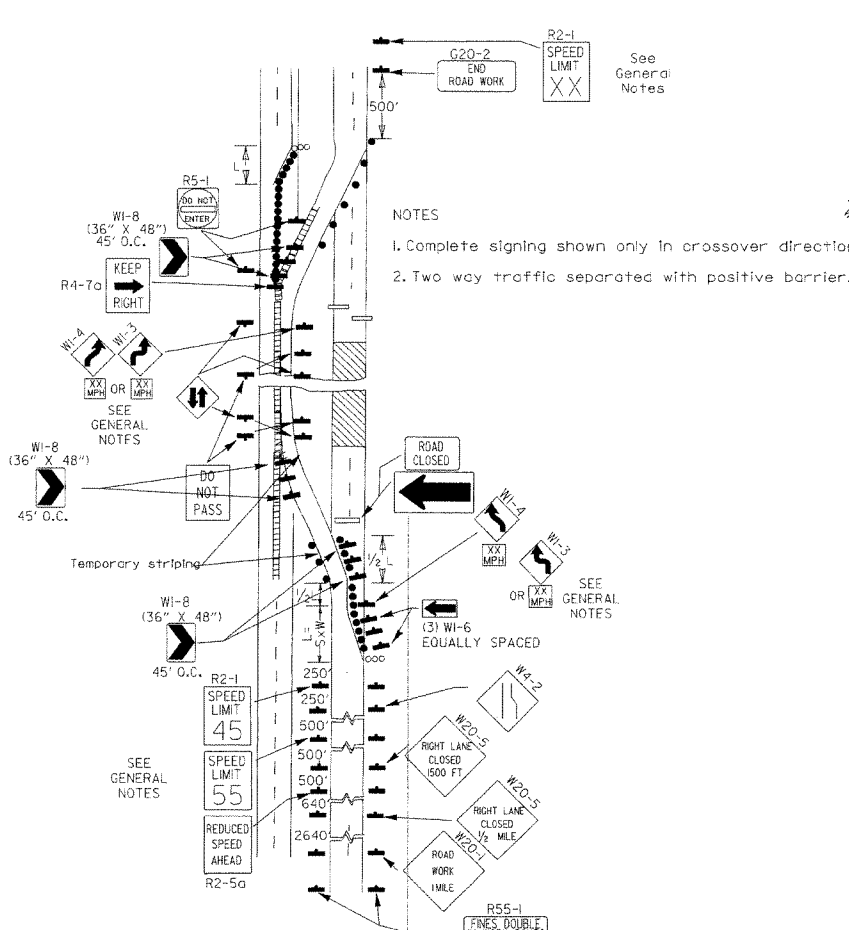
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
1-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
1-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED 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

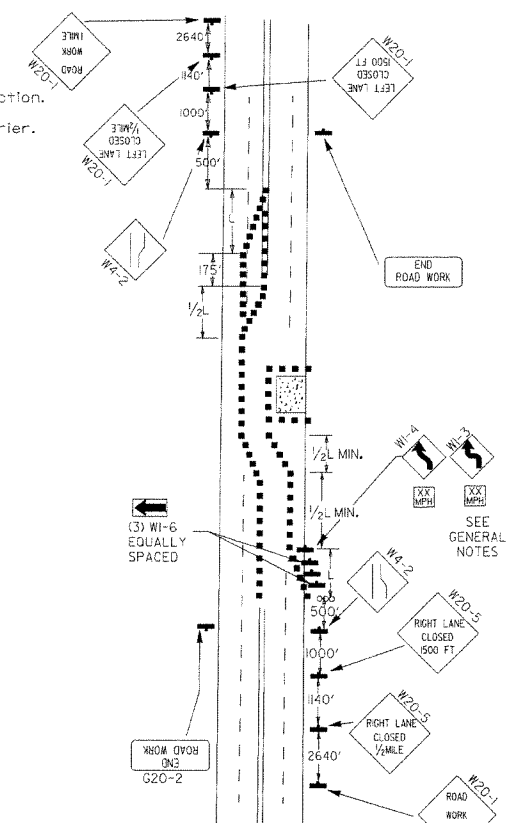
<p>RI-1</p>  <p>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</p>	<p>RI-2</p>  <p>STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"</p>	<p>R2-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5A</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5C</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R4-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R4-2</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>
<p>R5-1</p>  <p>STD. 30"x30" EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>R11-2</p>  <p>48"x30"</p>	<p>R11-3A</p>  <p>60"x30"</p>	<p>R11-4</p>  <p>60"x30"</p>	<p>RSP-1</p>  <p>48"x30"</p>	<p>WI-1</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>WI-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>
<p>WI-3</p>  <p>STD. 48"x48"</p>	<p>WI-4</p>  <p>STD. 48"x48"</p>	<p>WI-6</p>  <p>STD. 48"x24" SPECIAL 60"x30"</p>	<p>WI-8</p>  <p>STD. 18"x24" SPECIAL 24"x30" EXPWY. 30"x36" FWY. 36"x48"</p>	<p>W3-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W3-2</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W4-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>
<p>W5-1</p>  <p>STD. 36"x36" SPECIAL 48"x48"</p>	<p>W6-3</p>  <p>EXPWY. 36"x36" SPECIAL 48"x48"</p>	<p>W8-7</p>  <p>EXPWY. 36"x36" FWY. 48"x48"</p>	<p>W9-2</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W13-1</p>  <p>STD. 24"x24"</p>	<p>W20-1</p>  <p>STD. 48"x48"</p>	<p>W20-2</p>  <p>STD. 48"x48"</p>
<p>W20-4</p>  <p>STD. 48"x48"</p>	<p>W20-5</p>  <p>STD. 48"x48"</p>	<p>W20-7a</p>  <p>18" 500 FEET W16-2 24"</p> <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W21-2</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W21-5</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W24-1</p>  <p>STD. 36"x36"</p>	<p>WI-4b</p>  <p>STD. 48"x48"</p>
<p>W8-11</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>W8-9</p>  <p>STD. 36"x36" FWY. 48"x48"</p>	<p>G20-1</p>  <p>60"x24"</p>	<p>G20-2</p>  <p>48"x24"</p>	<p>OM-3L OM-3R</p>  <p>12"x36"</p>	<p>M4-9</p>  <p>STD. 30"x24" SPECIAL 48"x36" SPECIAL 60"x48"</p>	<p>M4-10</p>  <p>48"x18"</p>
						<p>R56-1</p>  <p>STD. 18"x18"</p>
						<p>R55-1</p>  <p>36"x60"</p> <p>* USE 6" C LETTERS ** USE 4" D LETTERS</p>



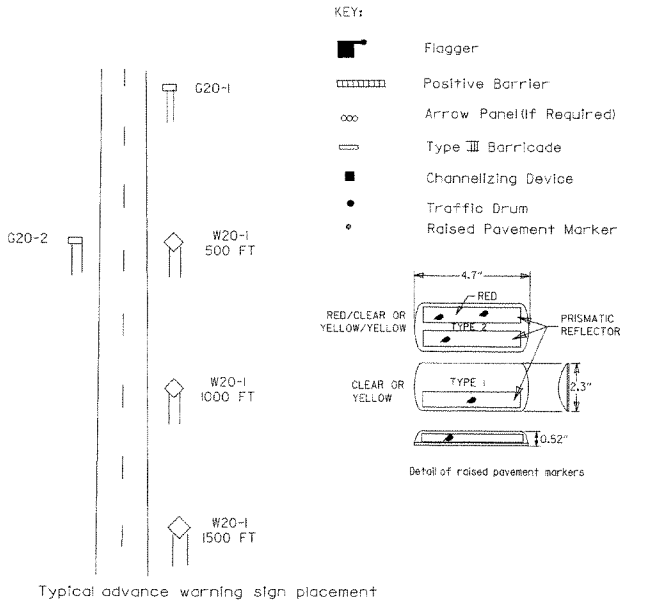
(A) Typical application of traffic control devices on a 2-lane highway where the entire roadway is closed and a bypass detour is provided.



(B) Typical application - 4-lane divided roadway where one roadway is closed.

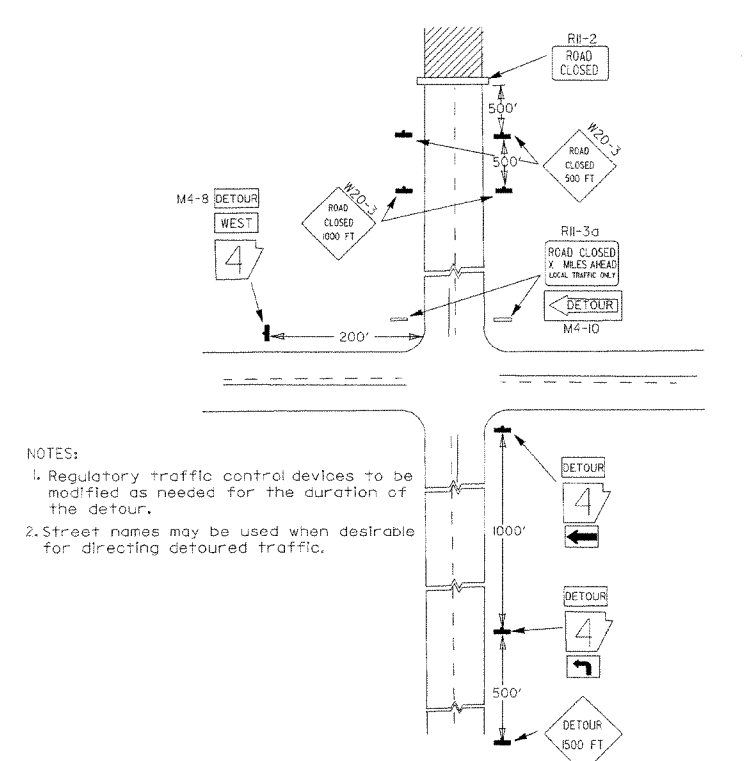


(C) Typical application - 4-lane undivided roadway where half of the roadway is closed.

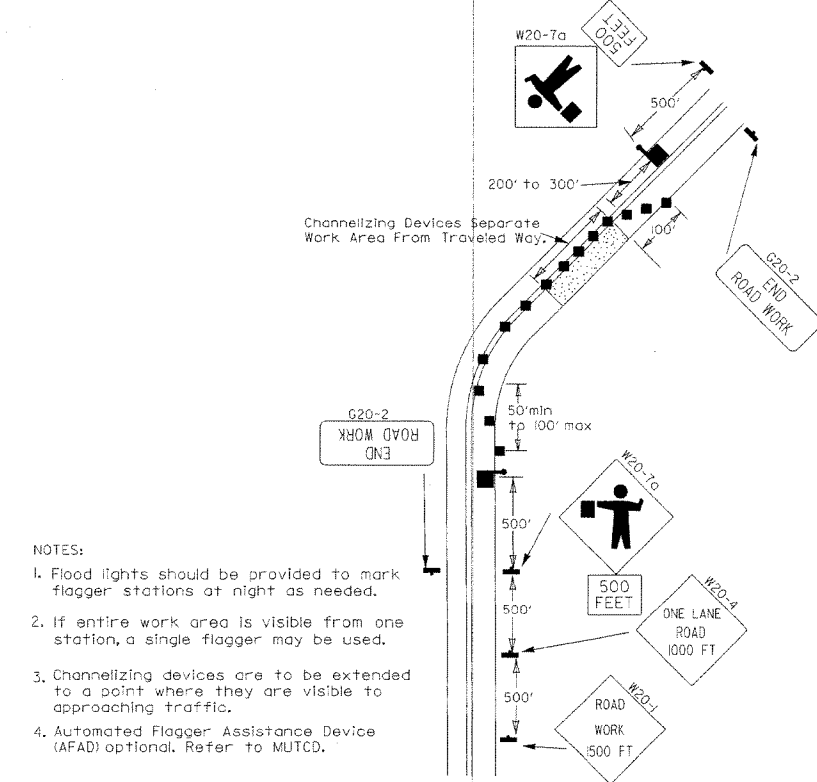


Taper formulae:
 $L = S \times W$ for speeds of 45mph or more.
 $L = \frac{WS^2}{60}$ for speeds of 40mph or less.
 Where:
 L = Minimum length of taper.
 S = Numerical value of posted speed limit prior to work or 85th percentile speed.
 W = Width of offset.

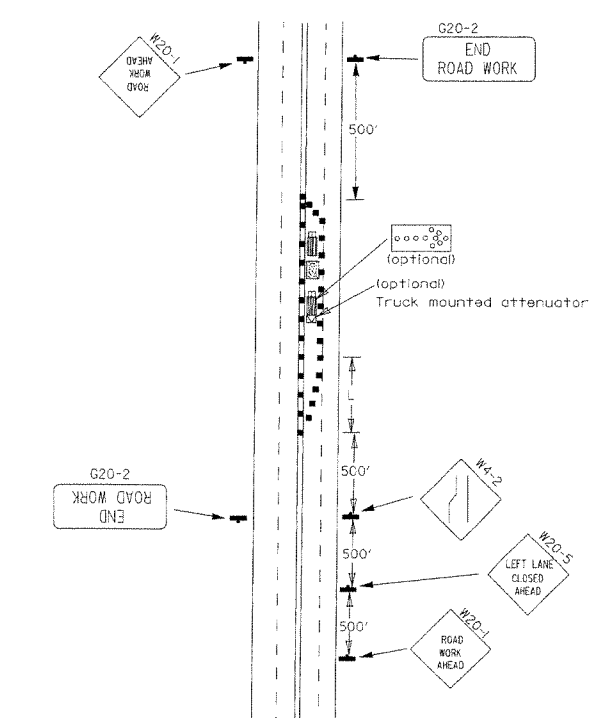
- GENERAL NOTES:
- Advisory speed posted on W1-3 or W1-4 curve warning signs to be determined at site. Use W1-4 when speed is greater than 30mph and W1-3 when 30mph or less.
 - When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-(R55) shall be omitted and the R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-(1xx) 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-(R65) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-(1xx) 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.



(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.

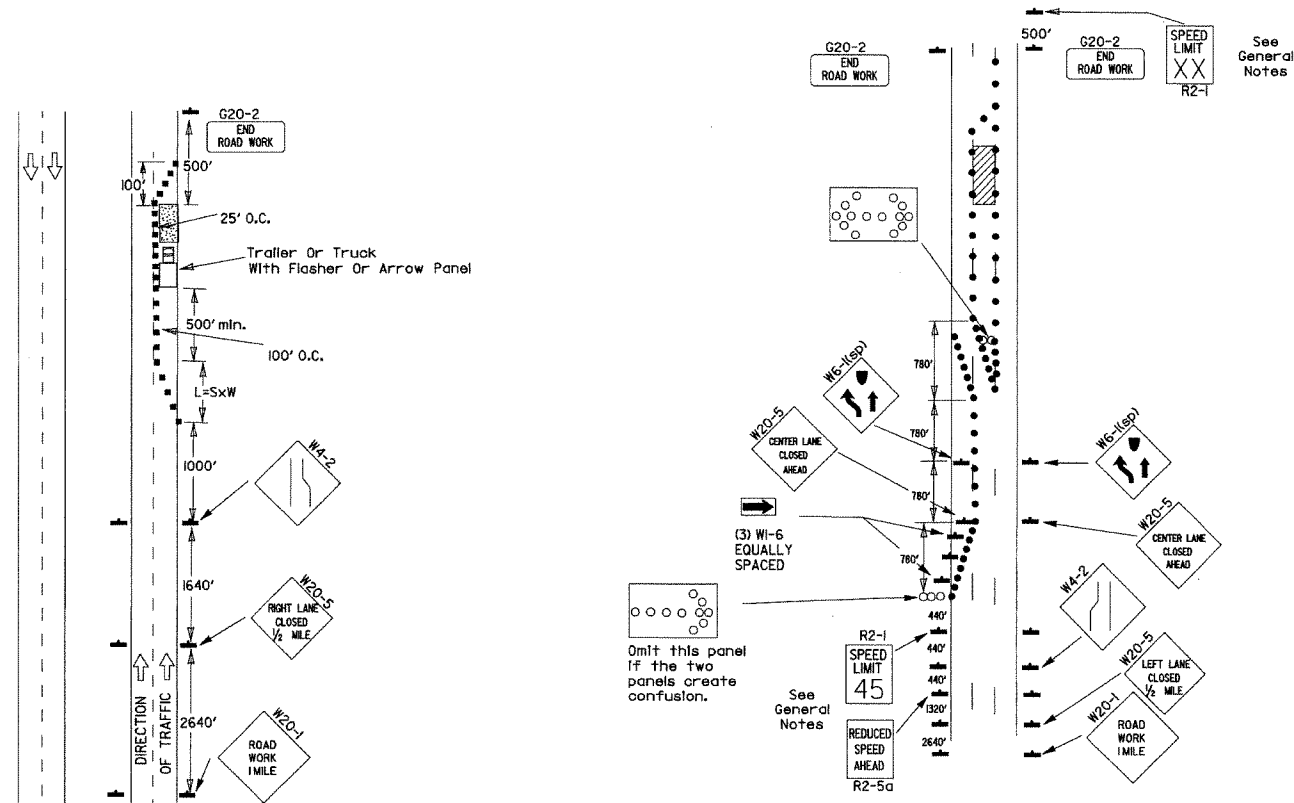


(F) Typical application - 4-lane undivided roadway with inside lane closed.

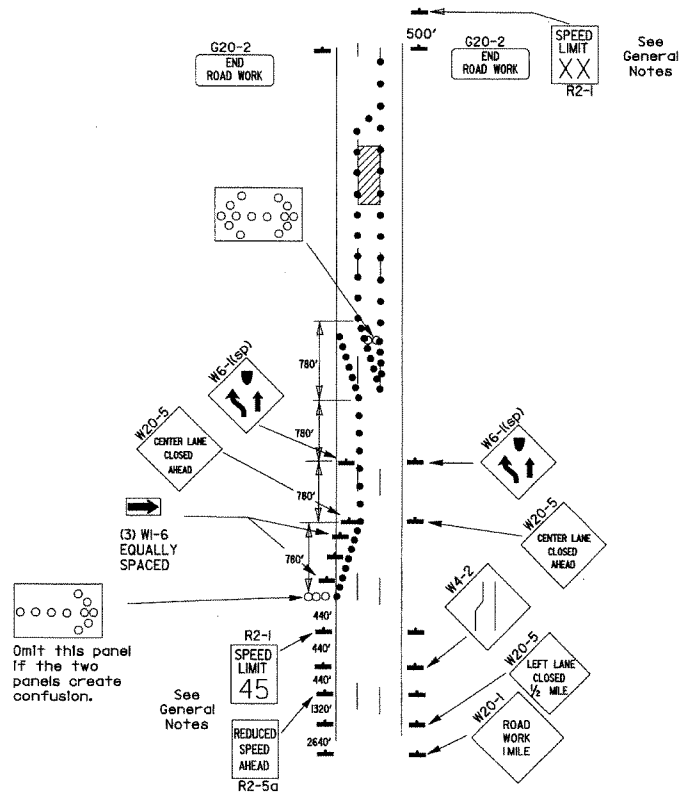
DATE	REVISION	FILMED
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (a) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W1-4A	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-5-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION
 STANDARD TRAFFIC CONTROLS
 FOR HIGHWAY CONSTRUCTION
 STANDARD DRAWING TC-2

Channelizing devices



(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.

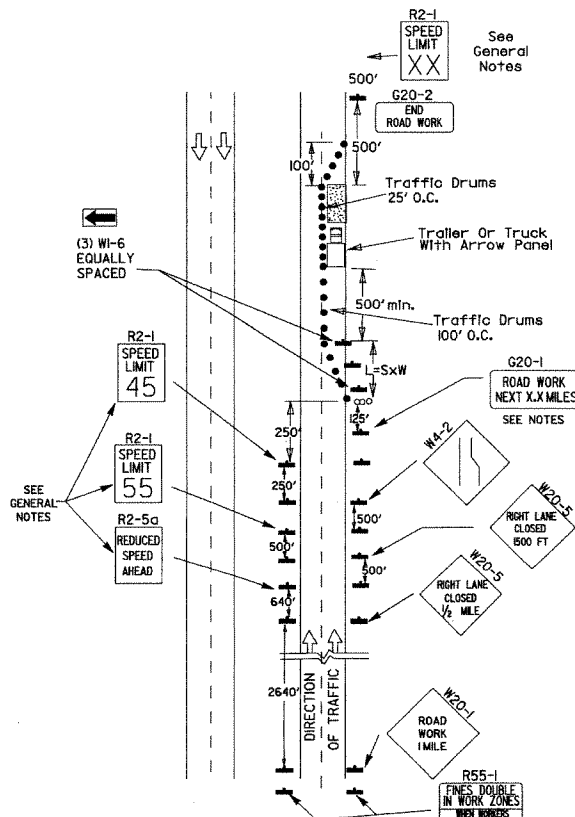


(B) Typical application - 3-lane oneway roadway where center lane is closed.

- KEY:
- Arrow Panel (if Required)
 - Channelizing Device
 - Traffic drum

GENERAL NOTES:

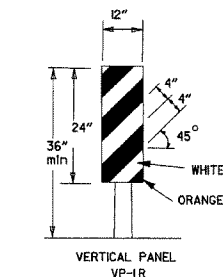
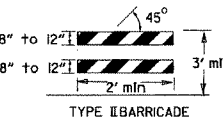
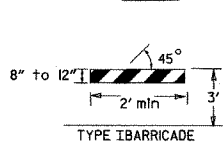
1. A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
2. When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-1(45) shall be omitted and the R2-5A shall be installed at that location. Additional R2-145mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1XX shall be installed to match original speed limit.
3. When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(45) shall be omitted. Additional R2-155mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-1XX shall be installed to match original speed limit.
4. The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
5. Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
6. Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
7. The G20-1 sign will be required on jobs of over two miles in length. When the lane closure is not at the beginning of the project, the G20-1 sign shall be erected 125' in advance of the job limit. Additional W20-1 (1/2 MILE) signs are not required in advance of lane closures that begin inside the project limits.
8. Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
9. All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual For Assessing Safety Hardware (MASH).
10. Trailer mounted devices such as arrow panels and portable changeable message signs shall be delineated by affixing conspicuity material in a continuous line on the face of the trailer. When placed on or adjacent to the shoulder and not behind a positive barrier, these devices shall be delineated by placing five (5) traffic drums, equally spaced along the traffic side of the device.



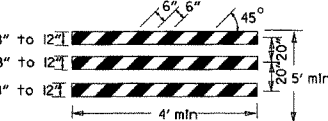
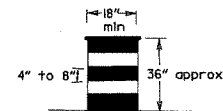
(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

When cones are used on freeways and multi-lane highways, they shall be 28" min. During hours of darkness, 28" cones shall be used on all roadways, and shall be reflectorized in accordance with the M.U.T.C.D.

CONES



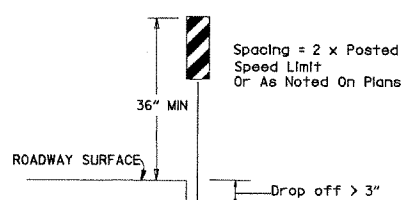
PLASTIC DRUM



TYPE III BARRICADE

NOTE: For all road closures, the Type III barricades shall be of sufficient length to extend across entire roadway.

VERTICAL PANEL PLACEMENT

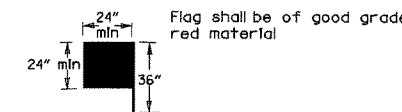


TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

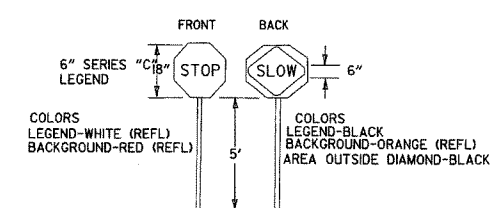
VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-1 and vertical panels, drums or concrete barrier
Greater than 3"	Edge of shoulder	*Vertical panels, drums or concrete barrier

When the shoulder area is used as part of the traveled lane and there is insufficient width to place drums on the remaining shoulder width, then vertical panels shall be used.

FLAG

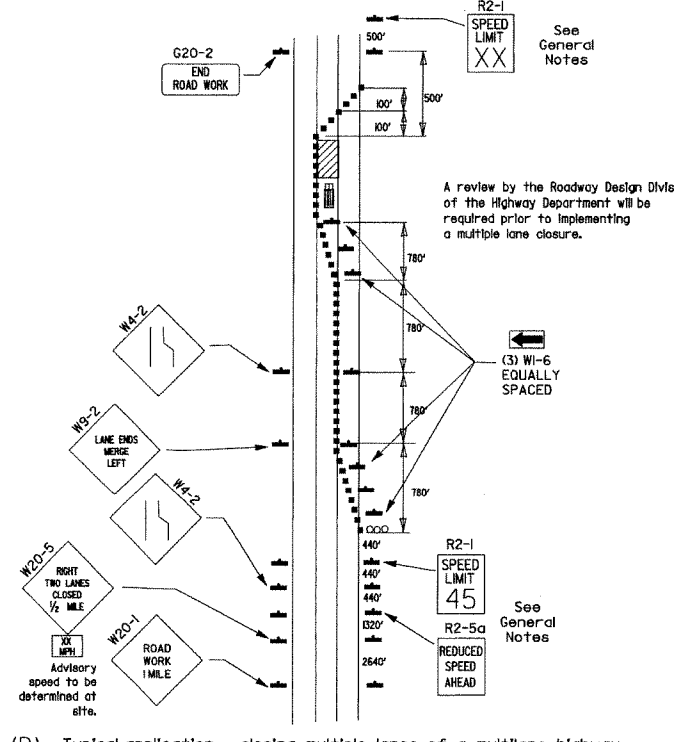
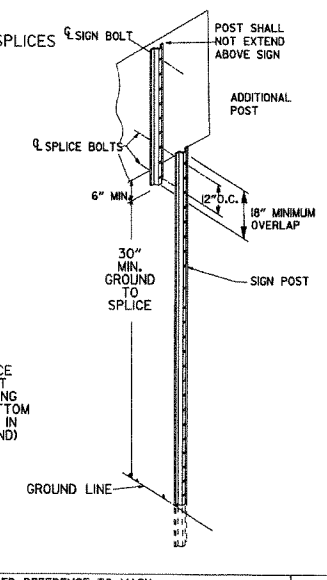
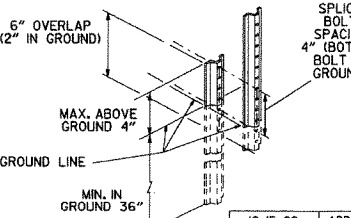


STOP SLOW PADDLE



DETAIL OF SPLICES

USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-21). NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS. SIGN POSTS SHALL BE PAINTED GREEN. SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.

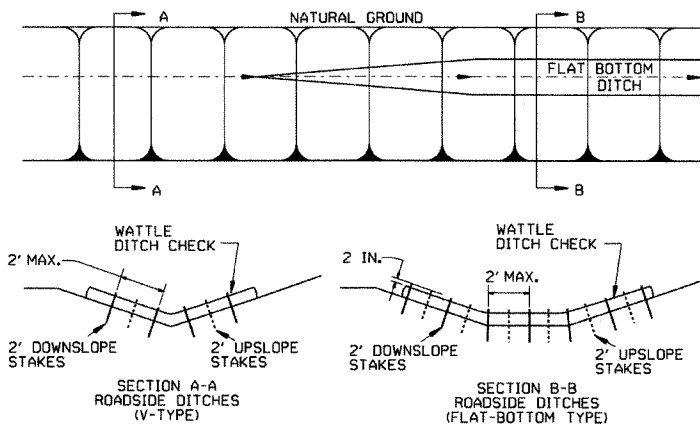


(D) Typical application - closing multiple lanes of a multi-lane highway.

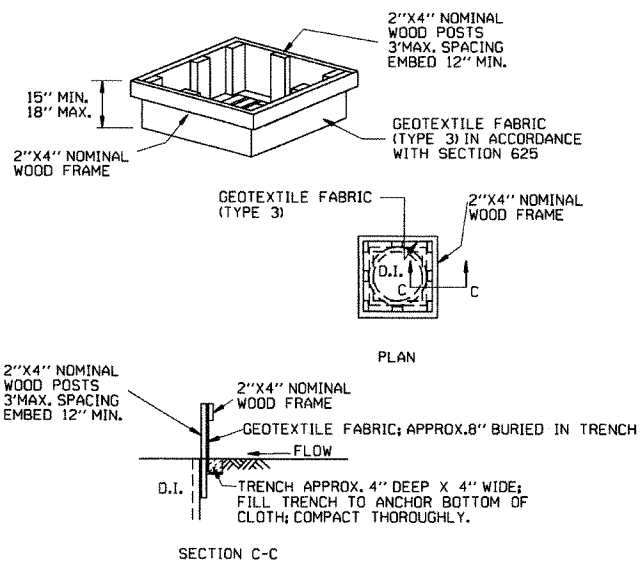
DATE	REVISION	FILMED
10-15-09	ADDED REFERENCE TO MASH	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED NOTE	
10-1-98	ADDED NOTE	
4-03-97	ADDED (SP) TO W6-1 & REVISED TRAFFIC CONTROL DEVICES NOTE	
10-18-96	ADDED R55-1	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL, TEXT	6-8-95
2-2-95	REVISED PER PART VI, MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-3

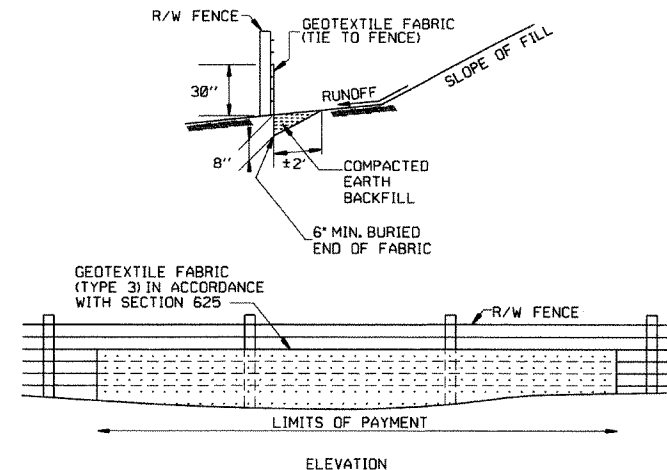
GENERAL NOTES
 INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



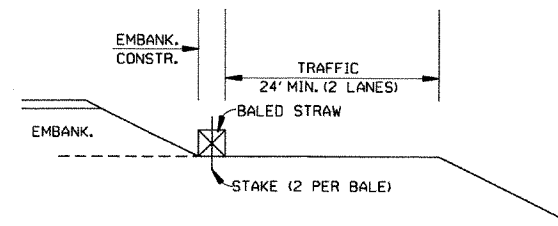
DROP INLET SILT FENCE (E-7)



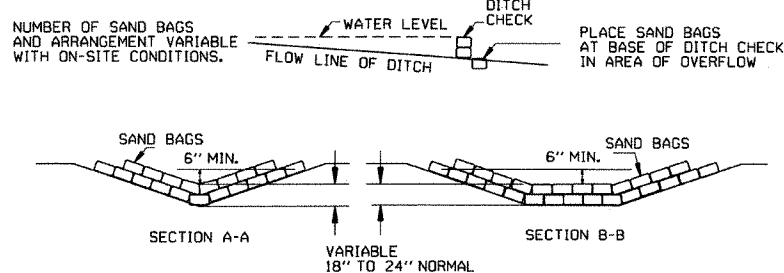
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES
 GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

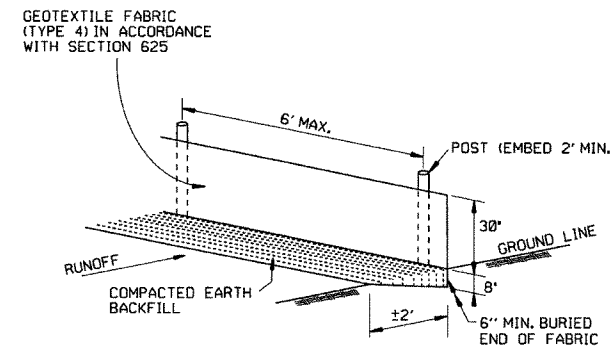
GENERAL NOTES
 1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
 2. NO GAPS SHALL BE LEFT BETWEEN BALES.
 3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED 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)

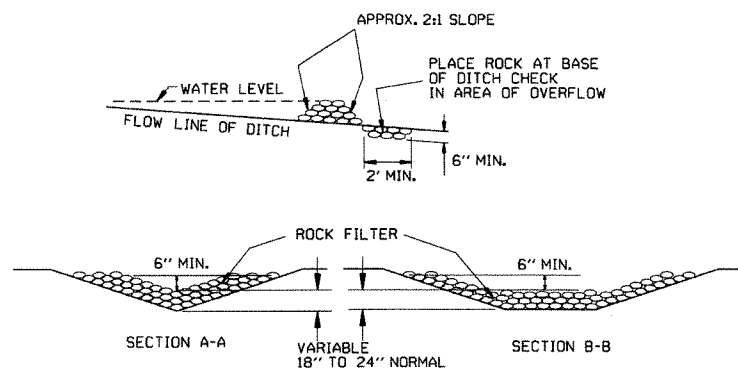


SAND BAG DITCH CHECK (E-5)



SILT FENCE (E-11)

GENERAL NOTES
 GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



ROCK DITCH CHECK (E-6)

12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK		ARKANSAS STATE HIGHWAY COMMISSION
11-18-98	ADDED NOTES		
7-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)		
7-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95	TEMPORARY EROSION CONTROL DEVICES
7-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC		
6-2-94	REVISED E-1, 4, 7 & 11; DELETED E-2 & 3	6-2-94	
4-1-93	REDRAWN		
10-1-92	REDRAWN		
8-2-76	ISSUED R.D.M.	298-7-28-76	STANDARD DRAWING TEC-1
DATE	REVISION	FILMED	