

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

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.	061431		1	39

2 HWY. 75-HWY. 70 INTCHNG. (CABLE MEDIAN BARRIER)(S)

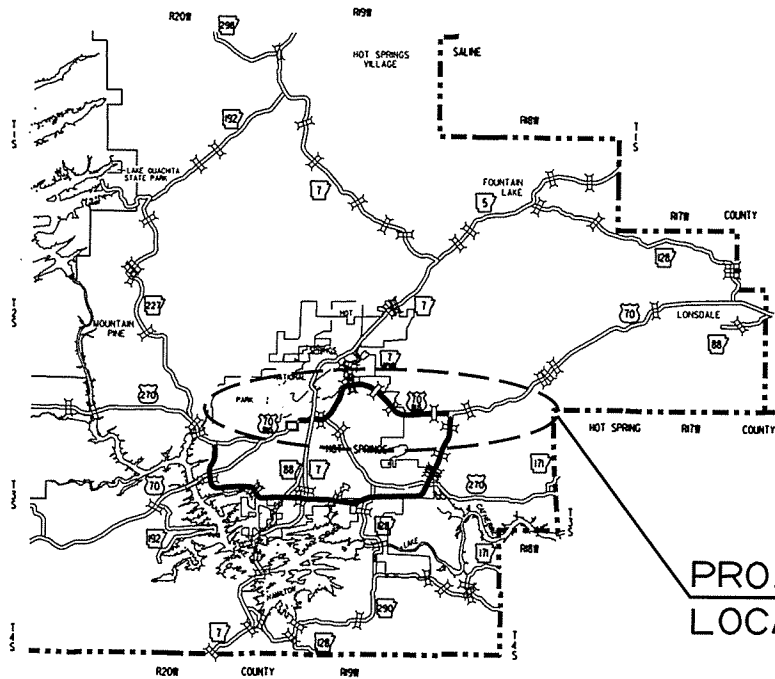
HWY. 75-HWY. 70 INTCHNG. (CABLE MEDIAN BARRIER)(S)

GARLAND COUNTY

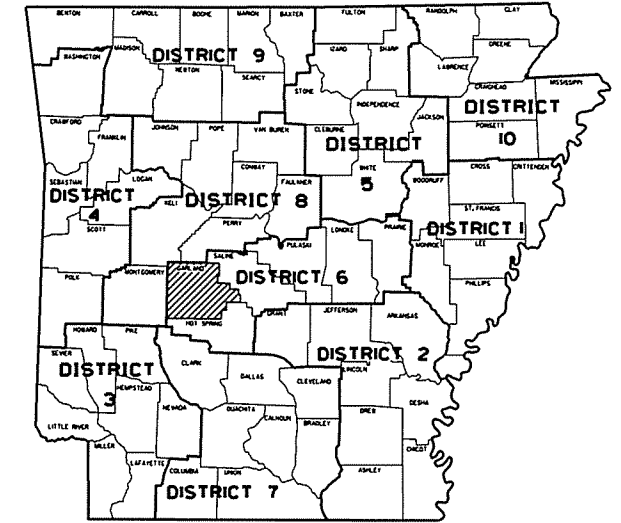
ROUTE 70B/70 SECTION 9B/9

JOB NO. 061431

FED. AID PROJ. PEN-9210(25)



VICINITY MAP



ARK. HWY. DIST. NO. 6

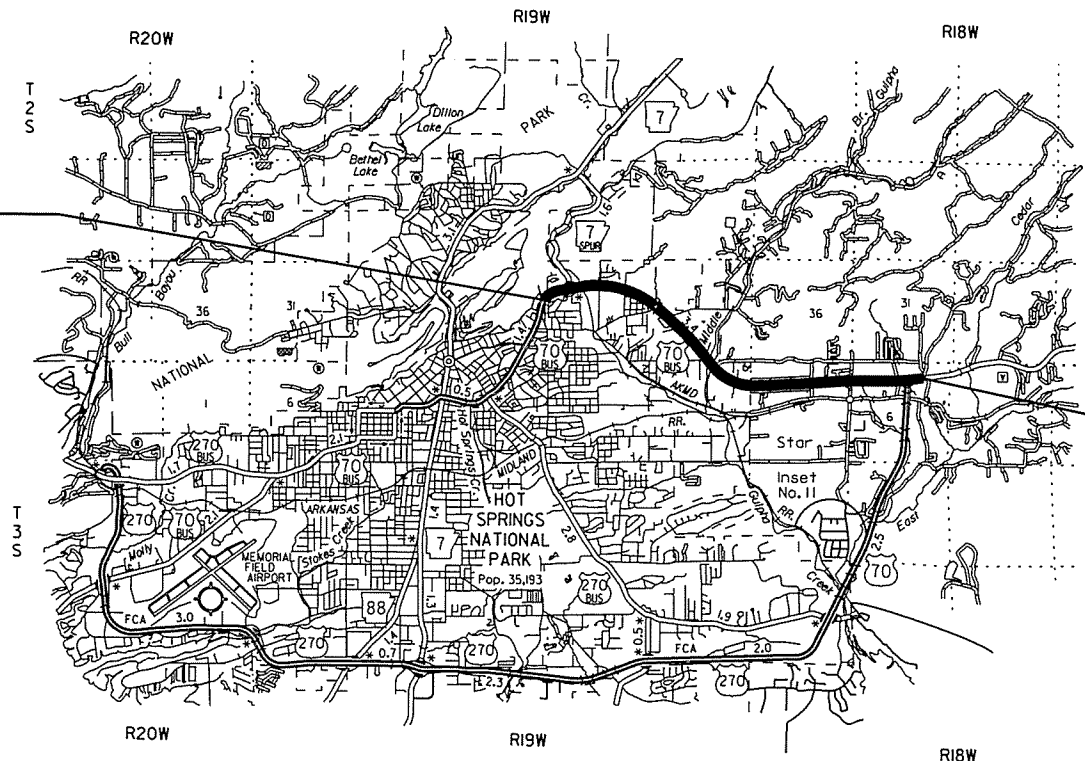
DESIGN TRAFFIC DATA	HWY. 70B	HWY. 70
DESIGN YEAR	2034	2034
2014 ADT	7,000	12,500
2034 ADT	9,100	16,500
2034 DHV	1,001	1,815
DIRECTIONAL DISTRIBUTION	0.60	0.60
TRUCKS	5%	12%
DESIGN SPEED	55 MPH	55 MPH

"NOT TO SCALE"

STA. 10+21.89
 BEGIN JOB 061431
 LOG MILE 1.60

EXCEPTIONS TO JOB NO. 061431

STA. 23+59.41 TO STA. 31+89.87 = 830.46 LIN. FT.
STA. 110+67.87 TO STA. 117+04.77 = 636.90 LIN. FT.
TOTAL LENGTH OF EXCEPTIONS = 1467.36 LIN. FT.



STA. 251+73.20
 END JOB 061431

APPROVED



Ralph J. Hall
 DEPUTY DIRECTOR
 AND CHIEF ENGINEER

BEGINNING OF PROJECT	MID POINT OF PROJECT	END OF PROJECT
LATITUDE = N 34°31'02"	LATITUDE = N 34°30'19"	LATITUDE = N 34°30'23"
LONGITUDE = W 93°02'16"	LONGITUDE = W 93°00'18"	LONGITUDE = W 92°57'55"

GROSS LENGTH OF PROJECT	24151.31 FEET	OR	4.574 MILES
NET " " ROADWAY	22683.95 " "		4.296 " "
NET " " BRIDGES	0.00 " "		0.000 " "
NET " " PROJECT	22683.95 " "		4.296 " "

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				6	ARK.			
						JOB NO. 061431	2	39

② INDEX OF SHEETS, GOV. SPECS., & GEN. NOTES



INDEX OF SHEETS

SHEET NO.	TITLE	BRIDGE NO.	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 - 14	TEMPORARY EROSION CONTROL DETAILS			
15 - 18	MAINTENANCE OF TRAFFIC			
19 - 21	QUANTITIES			
22	SUMMARY OF QUANTITIES AND REVISIONS			
23 - 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	9-12-13
38	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		TC-3	10-15-09
39	TEMPORARY EROSION CONTROL DEVICES		TEC-1	12-15-11

GOVERNING SPECIFICATIONS

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

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
108-1	LIQUIDATED DAMAGES
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
620-1	MULCH COVER
JOB 061431	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 061431	CONCRETE DITCH PAVING
JOB 061431	DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
JOB 061431	FLEXIBLE BEGINNING OF WORK
JOB 061431	MAINTENANCE OF TRAFFIC
JOB 061431	MANDATORY USE OF INTERNET BIDDING
JOB 061431	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIERS
JOB 061431	SEQUENCE OF CONSTRUCTION
JOB 061431	SITE USE (A + C METHOD)
JOB 061431	STORM WATER POLLUTION PREVENTION PLAN
JOB 061431	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 061431	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 061431	UTILITY ADJUSTMENTS
JOB 061431	WARM MIX ASPHALT
JOB 061431	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 061431	WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS
JOB 061431	WIRE ROPE SAFETY FENCE (POST REPAIR)
JOB 061431	WRSF TRAINING WORKSHOP

GENERAL NOTES

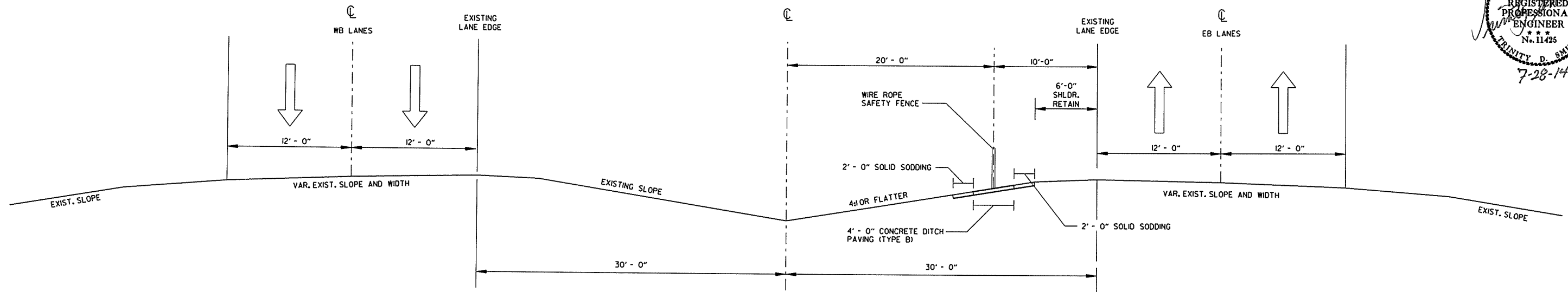
- ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE 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.
- WASTE MATERIAL SHALL BE DISPOSED OF AS APPROVED BY THE ENGINEER, ANY REQUIRED EROSION CONTROL MEASURES FOR WASTING MATERIAL SHALL BE AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING HIGHWAY SIGNS ACCORDING TO 603.02(d) OF THE STANDARD SPECIFICATIONS.

7/16/2014

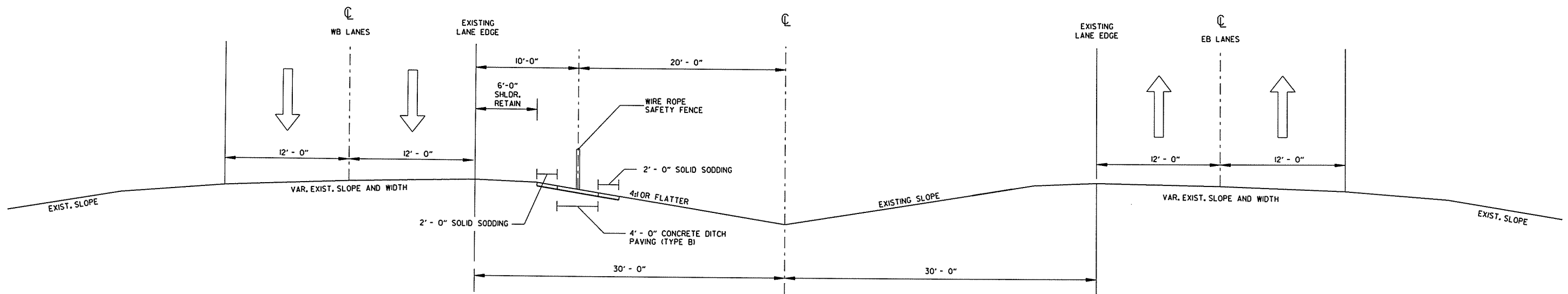
ZBDROER.CEL

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	3	39

2 TYPICAL SECTIONS OF IMPROVEMENT



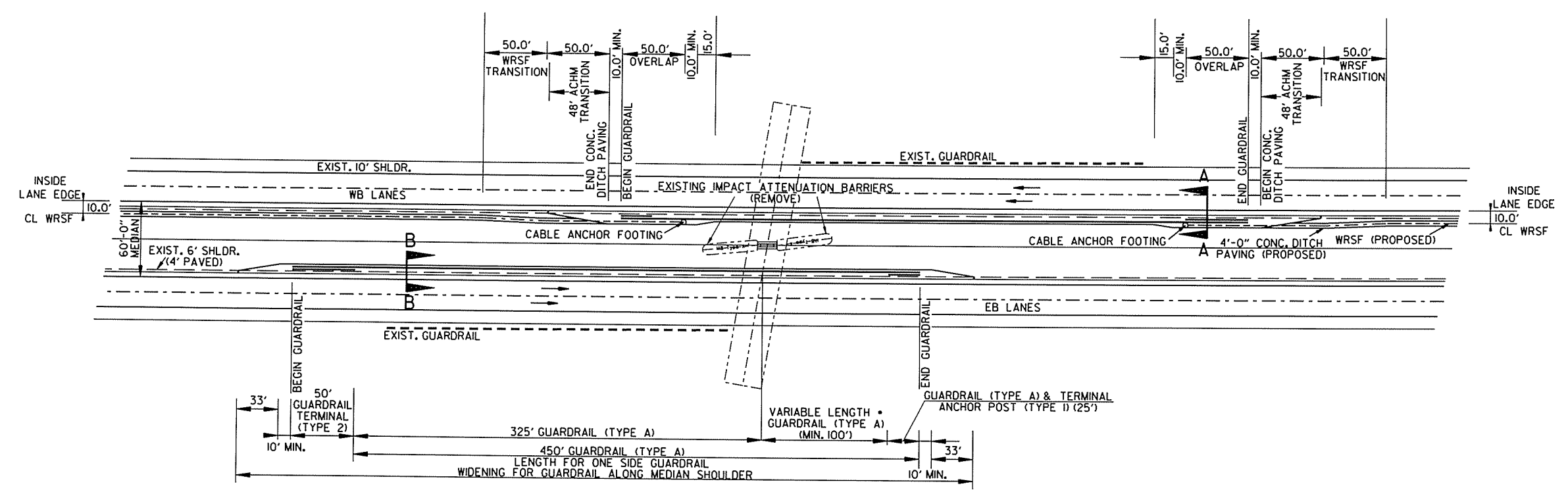
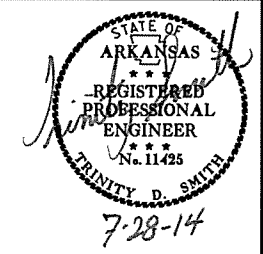
TYPICAL SECTION OF IMPROVEMENT FOR WIRE ROPE SAFETY FENCE RIGHT OF CENTERLINE



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

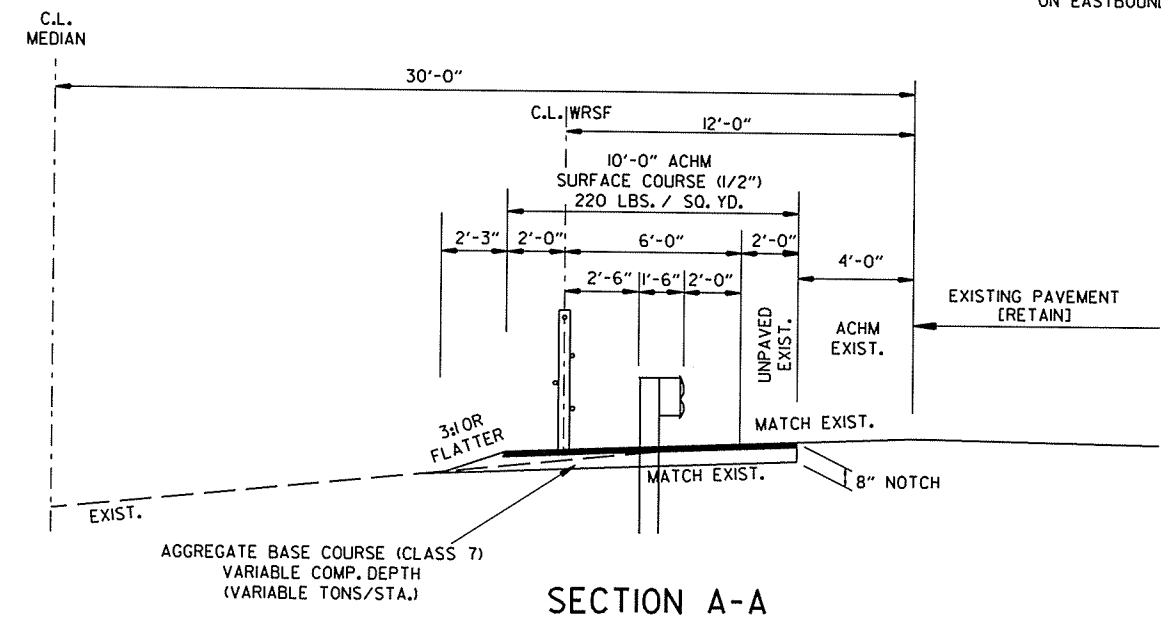
DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	4	39

2 SPECIAL DETAILS

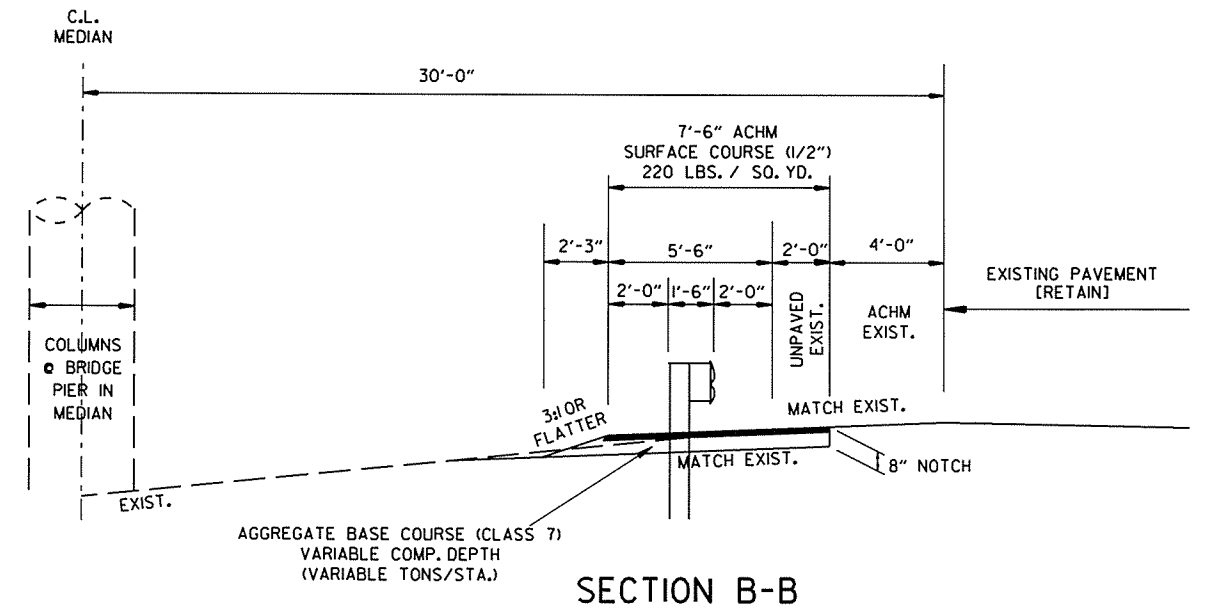


DETAIL AT OVERPASSES

NOTE: REFER TO PLAN SHEETS FOR PLACEMENT OF WIRE ROPE SAFETY FENCE ON EASTBOUND OR WESTBOUND FORESLOPES.



SECTION A-A



SECTION B-B

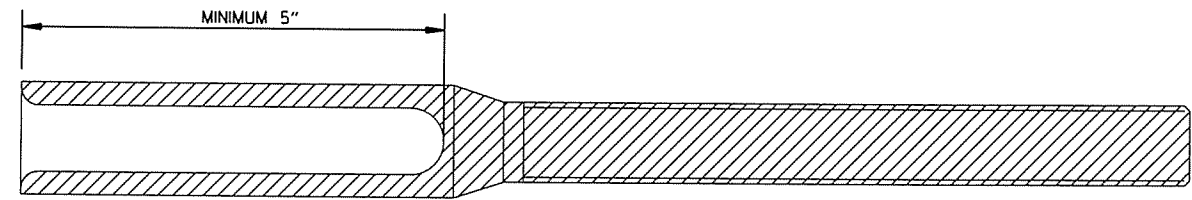
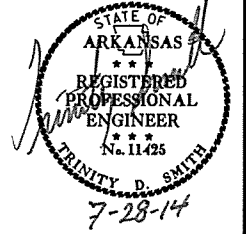
DETAILS OF SHOULDER WIDENING FOR GUARDRAIL AND OVERLAPS WITH ENDS OF WIRE ROPE SAFETY FENCE

7/25/2014

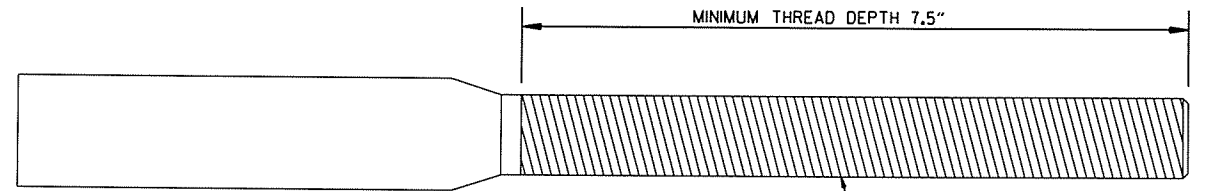
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2 SPECIAL DETAILS



SECTION VIEW



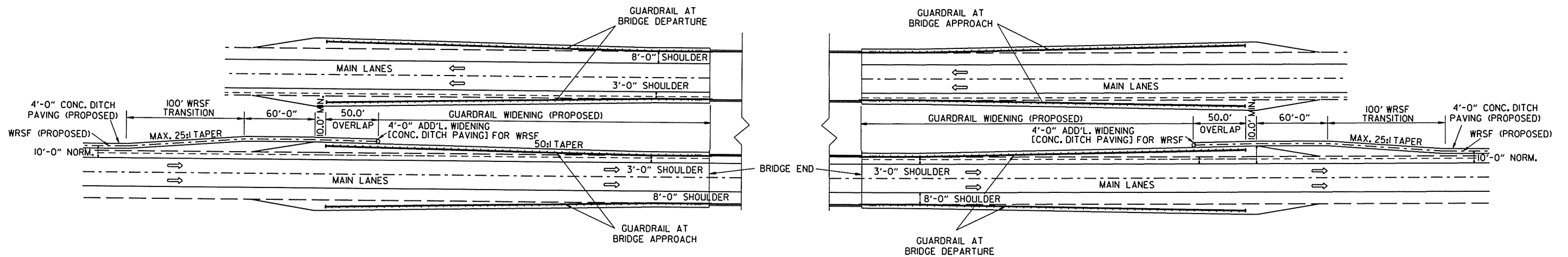
ELEVATION VIEW

SCREW THREADS LEFT HAND/RIGHT HAND

NOTE:

REFER TO "WIRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS" SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

THREADED TERMINAL DETAIL



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.

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2 TEMPORARY EROSION CONTROL DETAILS



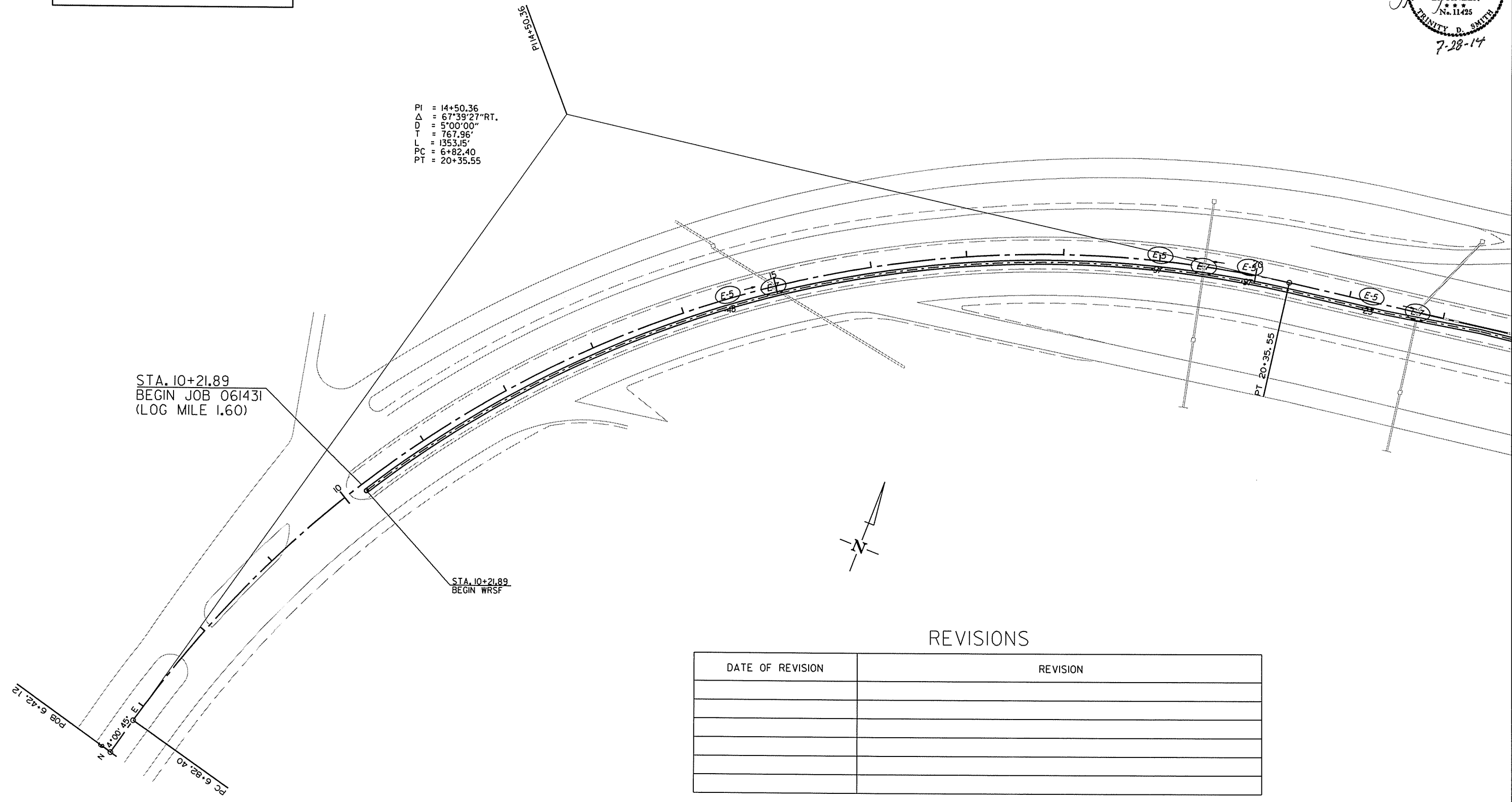
LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE

PI = 14+50.36
 $\Delta = 67^{\circ}39'27''$ RT.
D = 5'00"00"
T = 767.96'
L = 1353.15'
PC = 6+82.40
PT = 20+35.55

STA. 10+21.89
BEGIN JOB 061431
(LOG MILE 1.60)

STA. 10+21.89
BEGIN WRSF

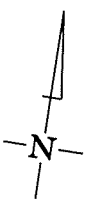
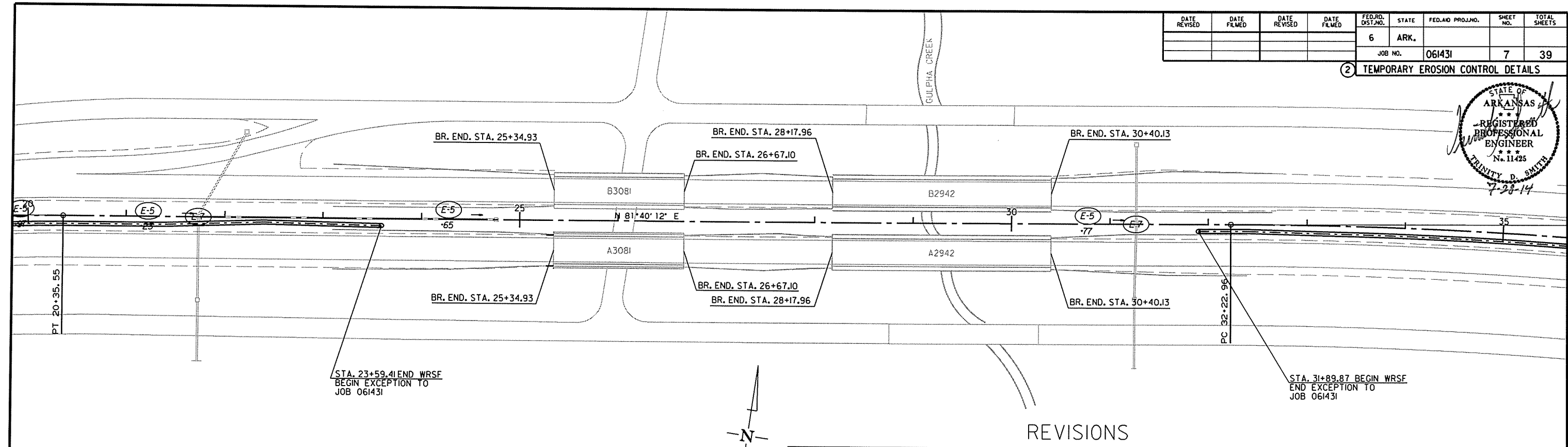
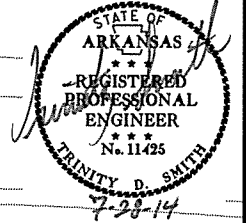


REVISIONS

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		7	39
						JOB NO. 061431		

② TEMPORARY EROSION CONTROL DETAILS

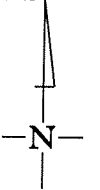
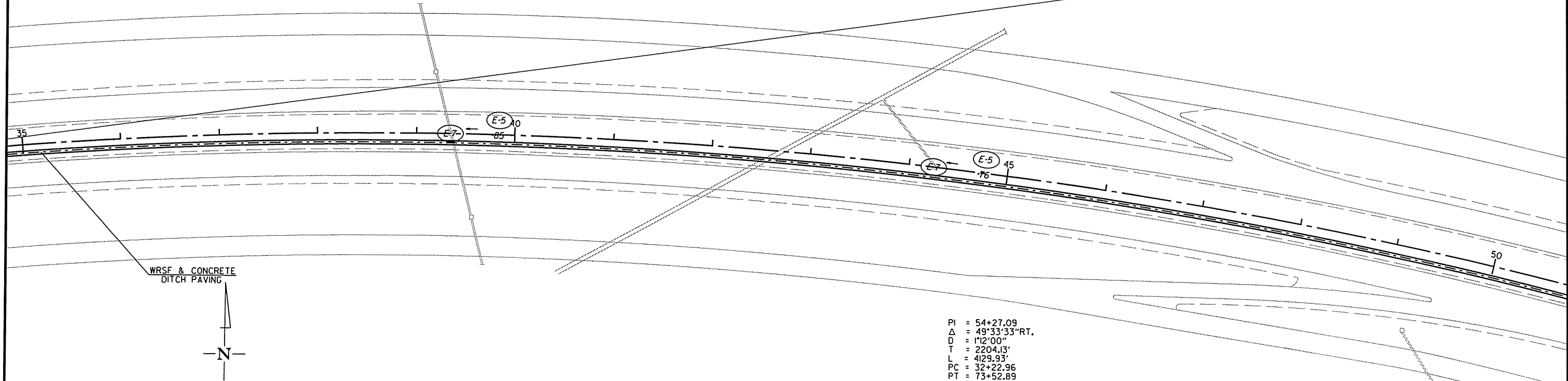


REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE



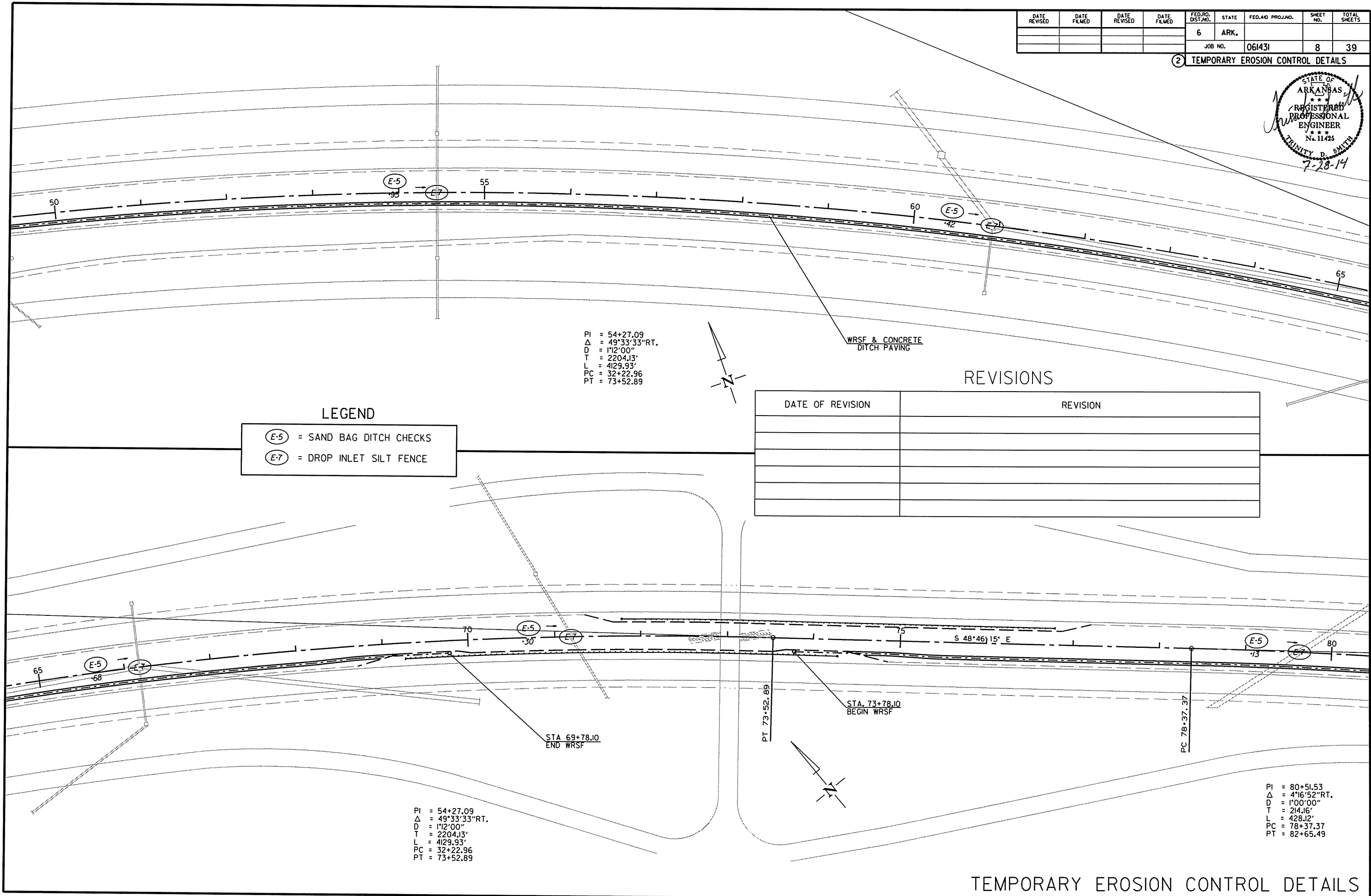
PI = 54+27.09
 Δ = 49°33'33" RT.
 D = 112'00"
 T = 2204.13'
 L = 4129.93'
 PC = 32+22.96
 PT = 73+52.89

TEMPORARY EROSION CONTROL DETAILS

R061431.DGN 7/25/2014

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				6	ARK.			
						JOB NO. 061431	8	39

2 TEMPORARY EROSION CONTROL DETAILS



PI = 54+27.09
 Δ = 49°33'33" RT.
D = 1'12'00"
T = 2204.13'
L = 4129.93'
PC = 32+22.96
PT = 73+52.89

WRSF & CONCRETE
DITCH PAVING

REVISIONS

DATE OF REVISION	REVISION

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE

STA 69+78.10
END WRSF

STA. 73+78.10
BEGIN WRSF

PT 73+52.89

PC 78+37.37

PI = 54+27.09
 Δ = 49°33'33" RT.
D = 1'12'00"
T = 2204.13'
L = 4129.93'
PC = 32+22.96
PT = 73+52.89

PI = 80+51.53
 Δ = 4'16'52" RT.
D = 1'00'00"
T = 214.16'
L = 428.12'
PC = 78+37.37
PT = 82+65.49

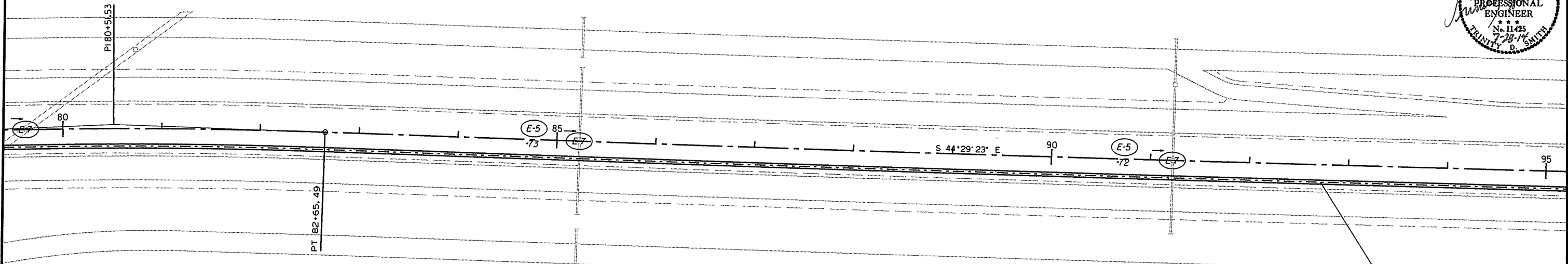
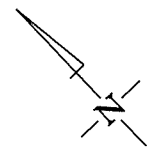
TEMPORARY EROSION CONTROL DETAILS

7/25/2014

R061431.DGN

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				6	ARK.		9	39
						JOB NO. 061431		

2 TEMPORARY EROSION CONTROL DETAILS



PI = 80+51.53
 Δ = 4°16'52" RT.
D = 1°00'00"
T = 214.16'
L = 428.12'
PC = 78+37.37
PT = 82+65.49

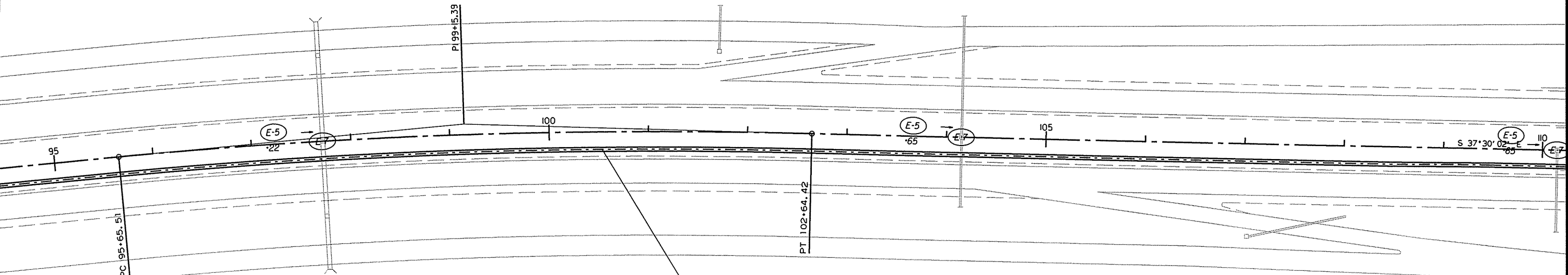
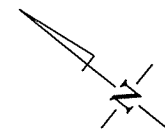
LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE

REVISIONS

DATE OF REVISION	REVISION

WRSF & CONCRETE
DITCH PAVING



PI = 99+15.39
 Δ = 6°59'21" RT.
D = 1°00'00"
T = 349.89'
L = 698.91'
PC = 95+65.51
PT = 102+64.42

WRSF & CONCRETE
DITCH PAVING

7/25/2014

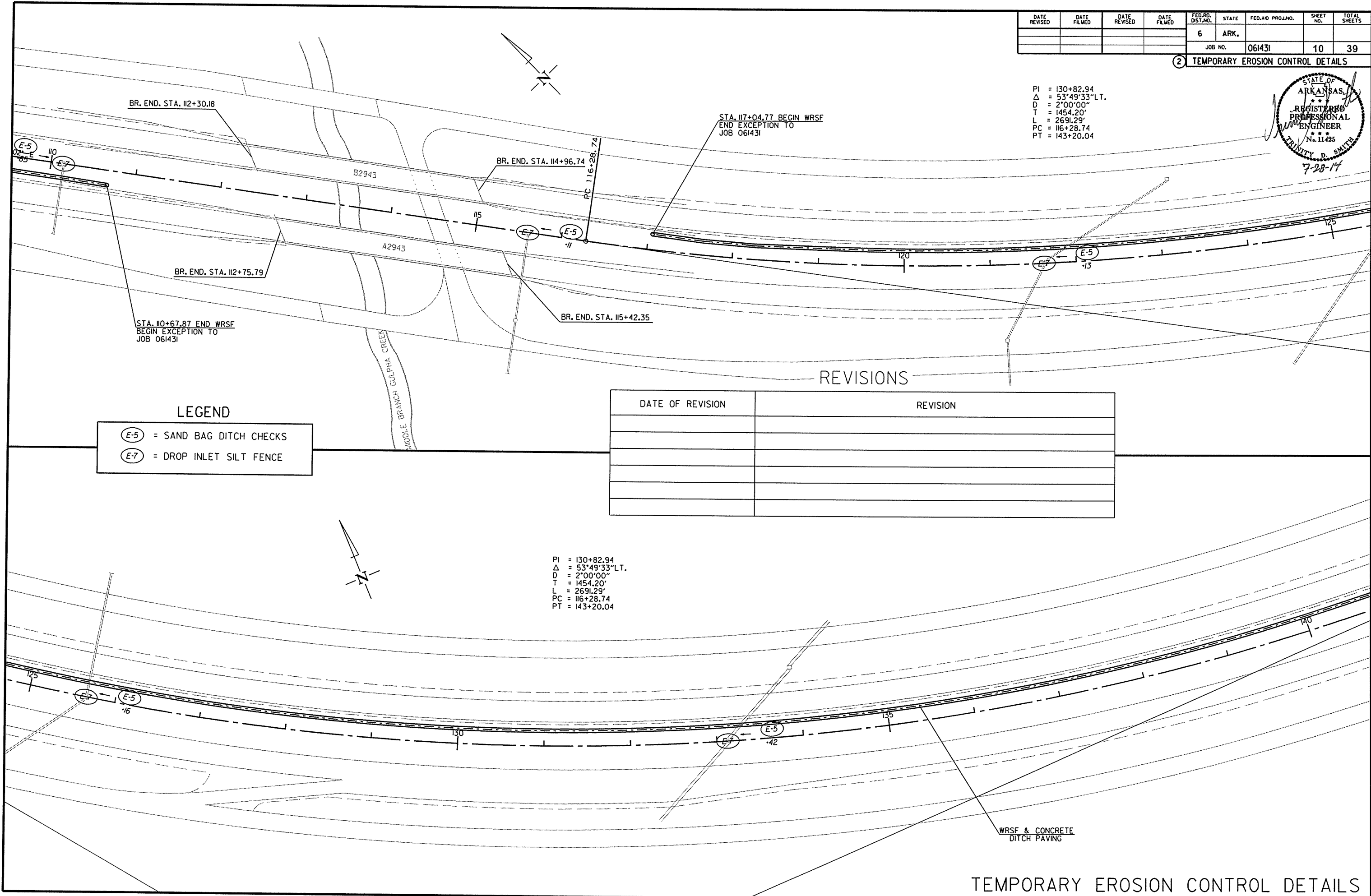
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TEMPORARY EROSION CONTROL DETAILS

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				6	ARK.		10	39
				JOB NO.		061431		

2 TEMPORARY EROSION CONTROL DETAILS

PI = 130+82.94
 Δ = 53°49'33"LT.
D = 2°00'00"
T = 1454.20'
L = 2691.29'
PC = 116+28.74
PT = 143+20.04



LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE

DATE OF REVISION	REVISION

PI = 130+82.94
 Δ = 53°49'33"LT.
D = 2°00'00"
T = 1454.20'
L = 2691.29'
PC = 116+28.74
PT = 143+20.04

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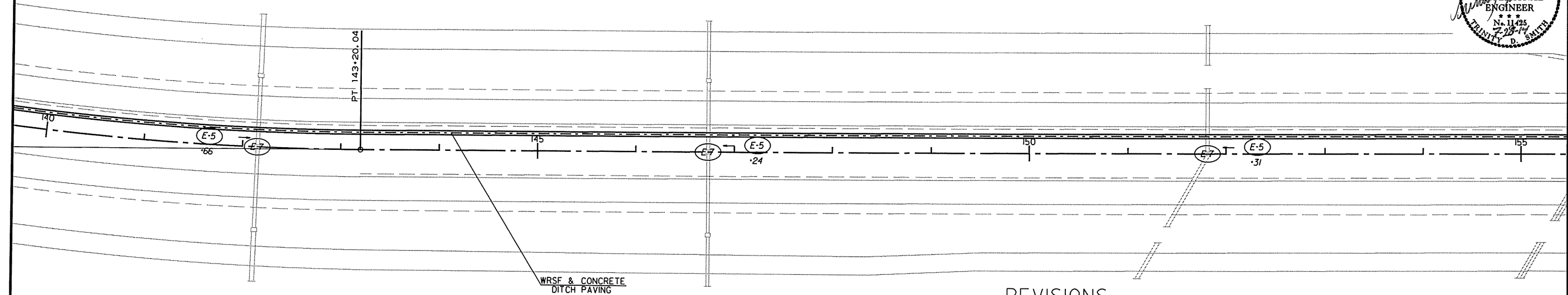
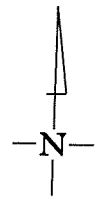
TEMPORARY EROSION CONTROL DETAILS

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2 TEMPORARY EROSION CONTROL DETAILS



PI = 130+82.94
 Δ = 53°49'33" L.T.
D = 2'00'00"
L = 1454.20'
PC = 116+28.74
PT = 143+20.04



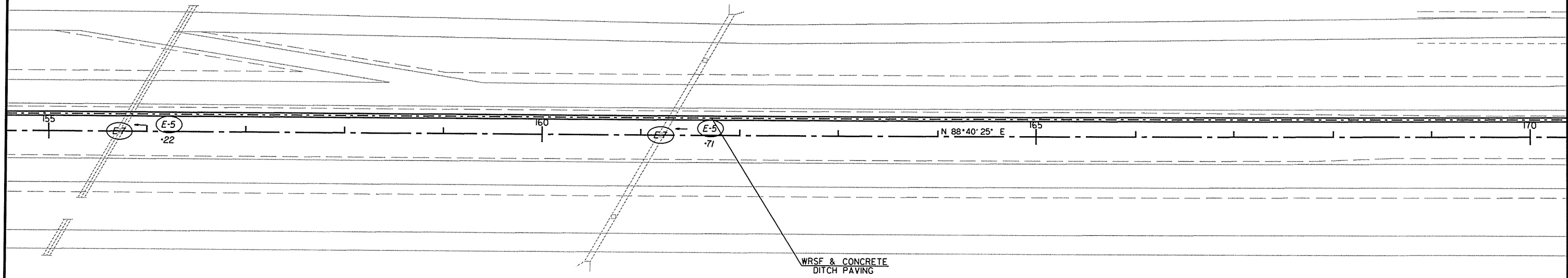
LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE



REVISIONS

DATE OF REVISION	REVISION



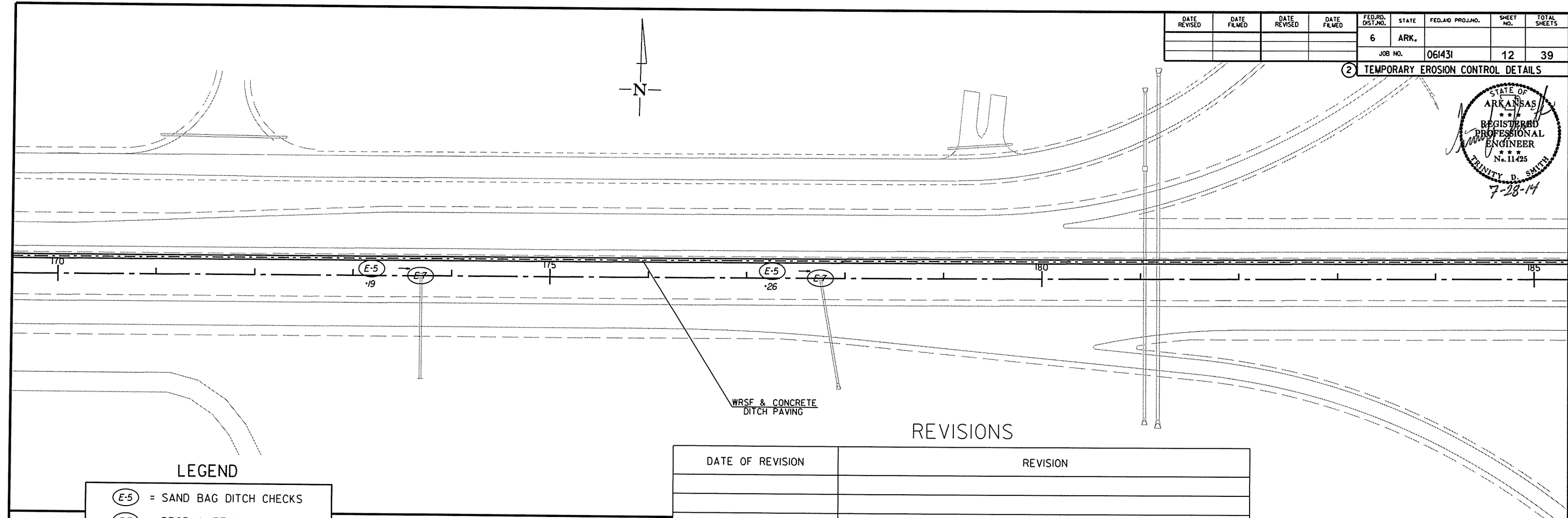
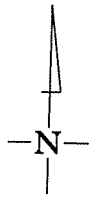
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TEMPORARY EROSION CONTROL DETAILS

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				6	ARK.		12	39
				JOB NO. 061431				

2 TEMPORARY EROSION CONTROL DETAILS

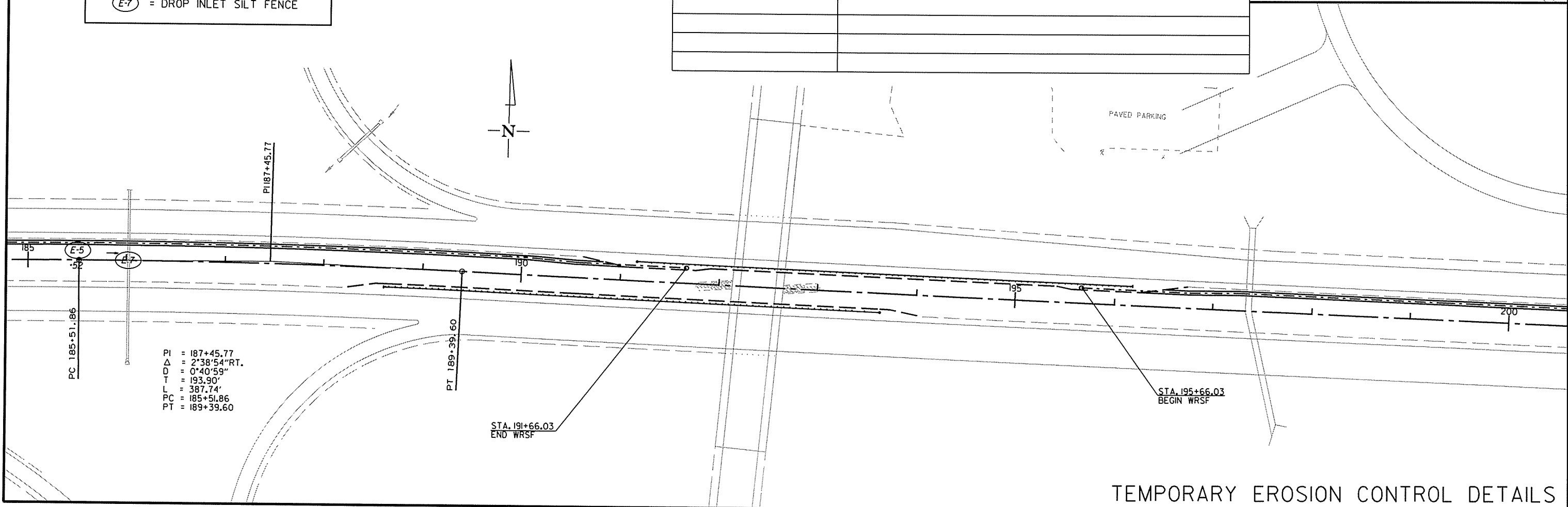


REVISIONS

DATE OF REVISION	REVISION

LEGEND

- E-5 = SAND BAG DITCH CHECKS
- E-7 = DROP INLET SILT FENCE



PI = 187+45.77
 Δ = 2°38'54" RT.
 D = 0°40'59"
 T = 193.90'
 L = 387.74'
 PC = 185+51.86
 PT = 189+39.60

STA. 191+66.03
END WRSF

STA. 195+66.03
BEGIN WRSF

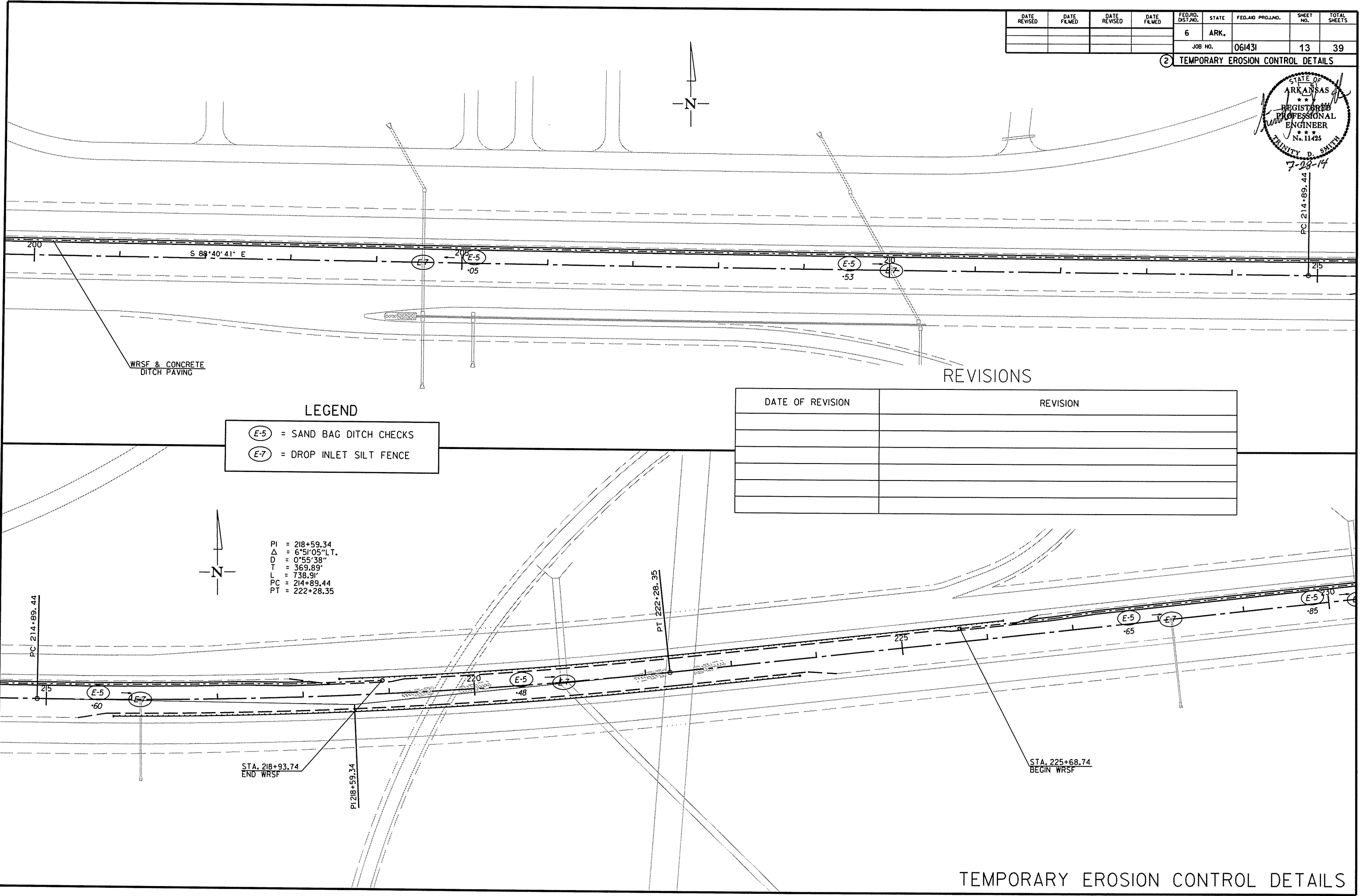
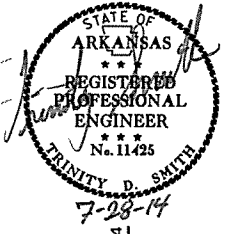
TEMPORARY EROSION CONTROL DETAILS

7/25/2014

R061431.DGN

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				6	ARK.		13	39
				JOB NO. 061431				

2 TEMPORARY EROSION CONTROL DETAILS



WRSF & CONCRETE
DITCH PAVING

LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE

DATE OF REVISION	REVISION

PI = 218+59.34
 Δ = 6°51'05" L.T.
D = 0°55'38"
T = 369.89'
L = 738.91'
PC = 214+89.44
PT = 222+28.35

STA. 218+93.74
END WRSF

STA. 225+68.74
BEGIN WRSF

7/25/2014

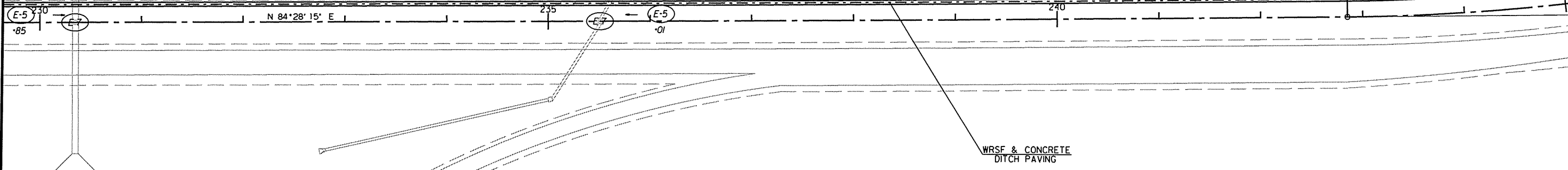
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TEMPORARY EROSION CONTROL DETAILS

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	14	39

2 TEMPORARY EROSION CONTROL DETAILS

PI = 245+53.95
 Δ = 14°26'01" L.T.
D = 2°41'54"
T = 268.88'
L = 534.91'
PC = 242+85.07
PT = 248+19.98



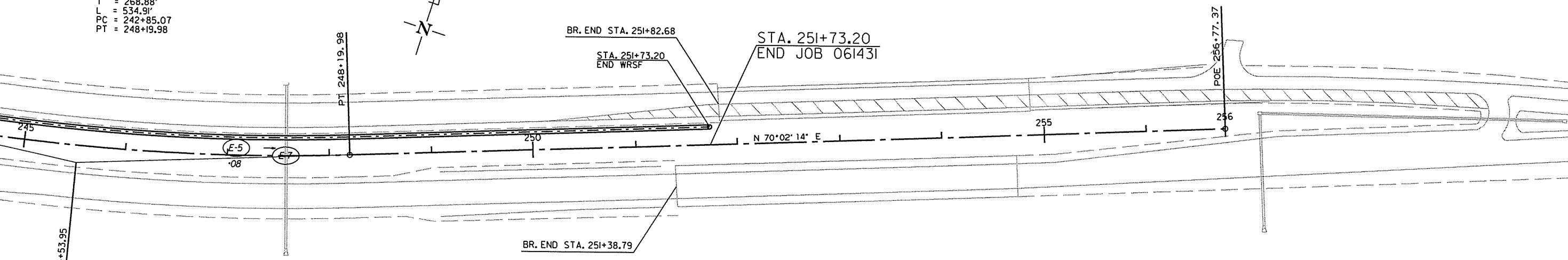
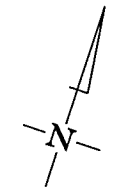
LEGEND

- (E-5) = SAND BAG DITCH CHECKS
- (E-7) = DROP INLET SILT FENCE

REVISIONS

DATE OF REVISION	REVISION

PI = 245+53.95
 Δ = 14°26'01" L.T.
D = 2°41'54"
T = 268.88'
L = 534.91'
PC = 242+85.07
PT = 248+19.98

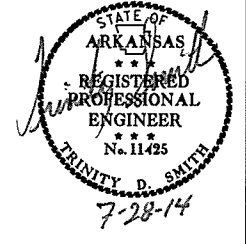


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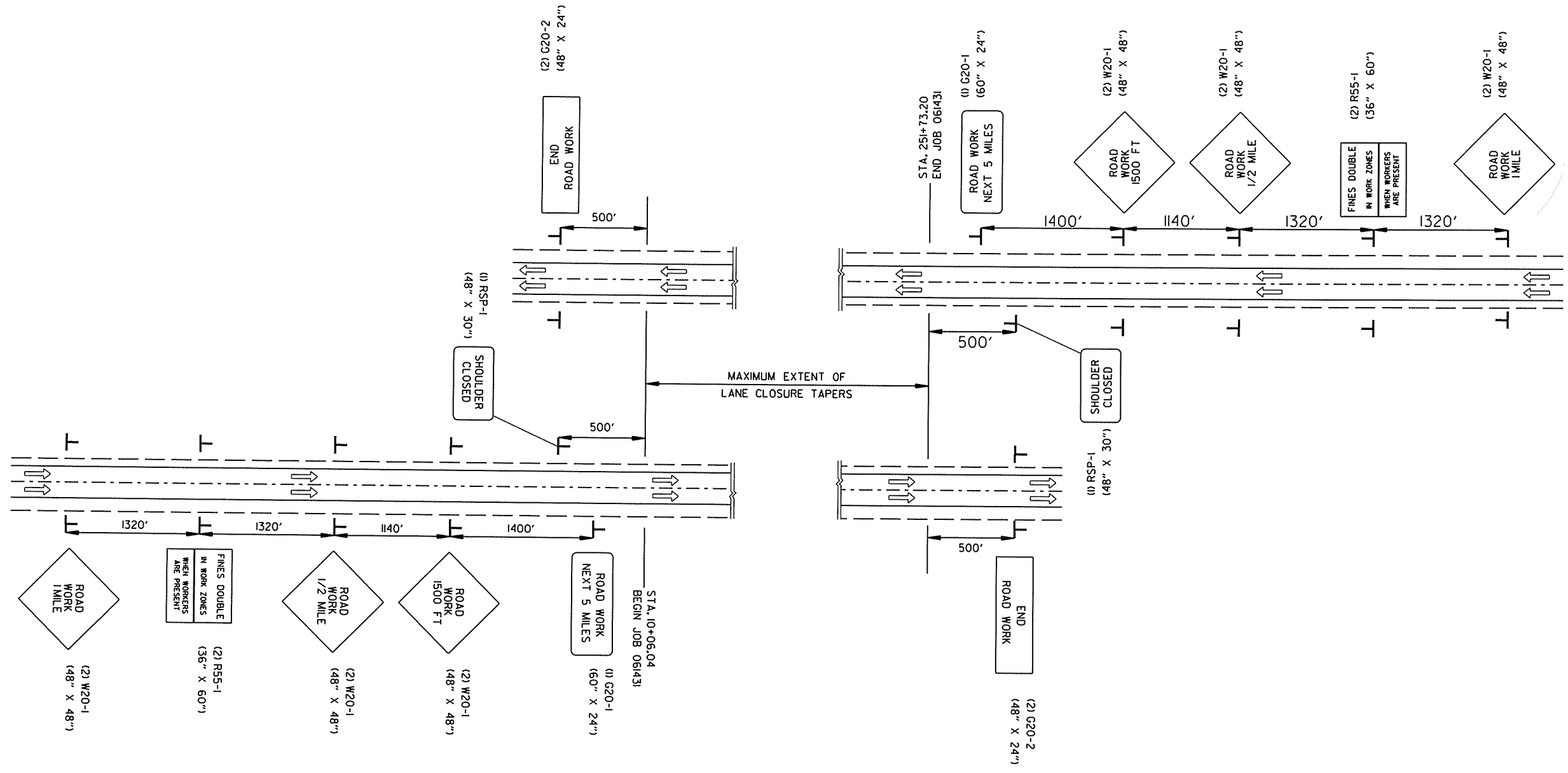
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		15	39
				JOB NO. 061431				

② MAINTENANCE OF TRAFFIC



PORTABLE CHANGEABLE MESSAGE SIGN
PLACED AS DIRECTED BY THE ENGINEER

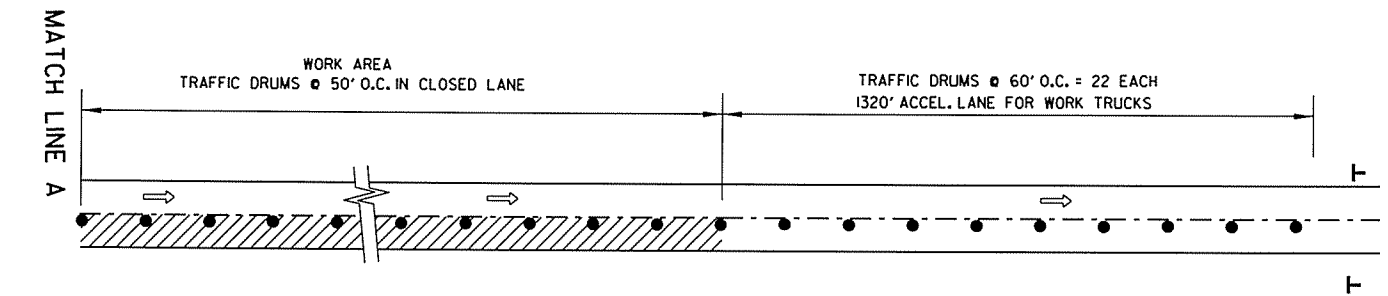
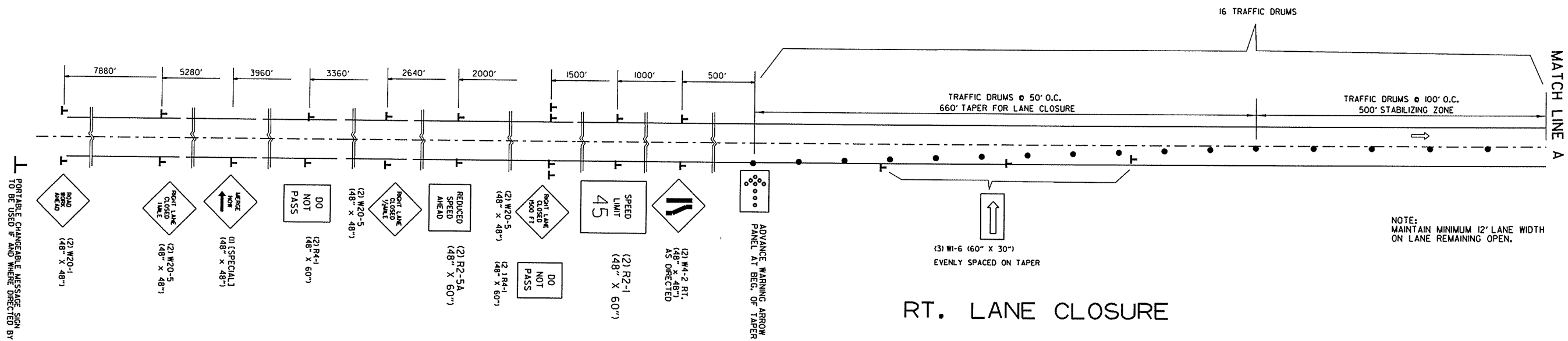
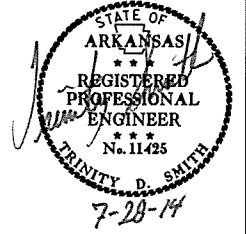


PORTABLE CHANGEABLE MESSAGE SIGN
PLACED AS DIRECTED BY THE ENGINEER

MAINTENANCE OF TRAFFIC
ADVANCE SIGNS AT JOB ENDS

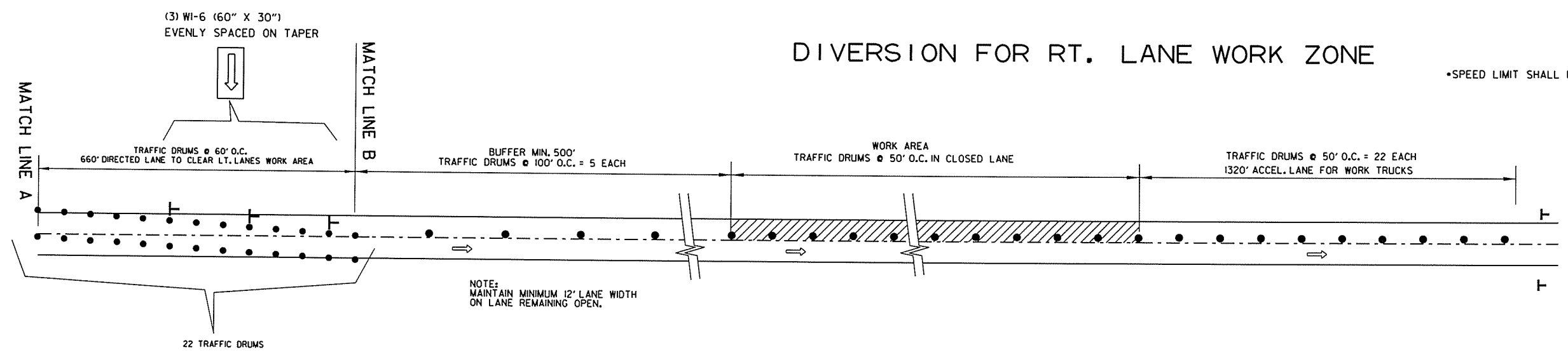
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				6	ARK.			
JOB NO. 061431							16	39

② MAINTENANCE OF TRAFFIC



DIVERSION FOR RT. LANE WORK ZONE

*SPEED LIMIT SHALL MATCH PERMANENT SPEED LIMIT.



DIVERSION FOR LT. LANE WORK ZONE

SPEED LIMIT 55 (2) R2-1 (48" X 60")

SPEED LIMIT 55 (2) R2-1 (48" X 60")

MAINTENANCE OF TRAFFIC LANE CLOSURE

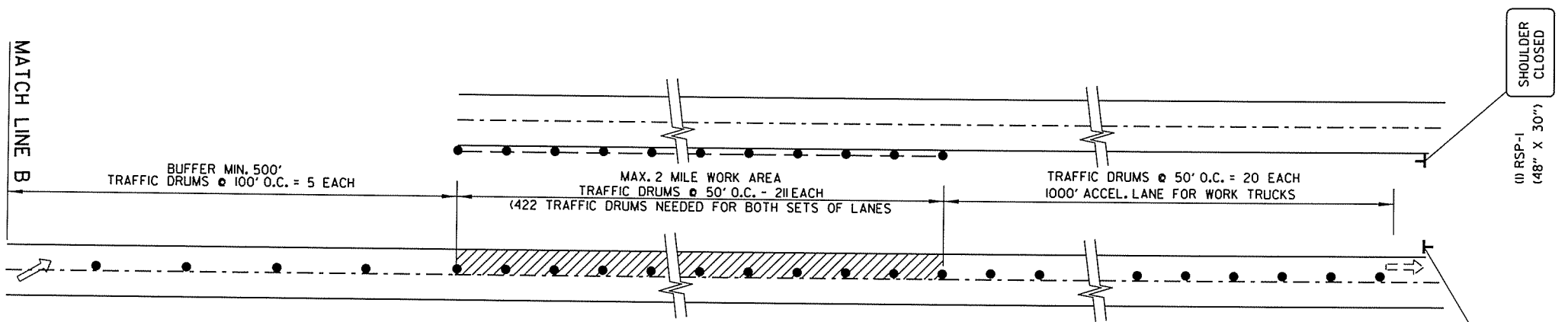
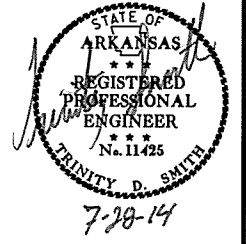
PORTABLE CHANGEABLE MESSAGE SIGN TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

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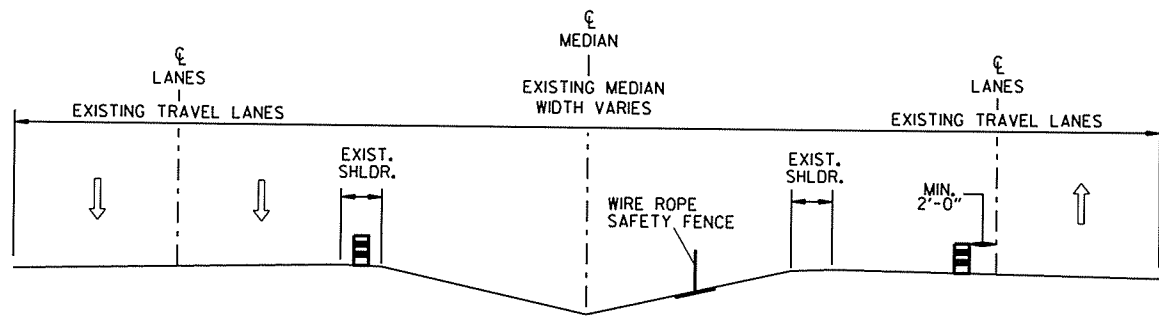
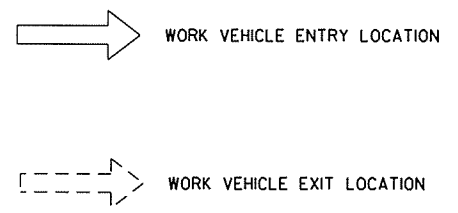
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				6	ARK.		17	39
JOB NO. 061431								

② MAINTENANCE OF TRAFFIC



SPEED LIMIT 55

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



TRAFFIC DRUM PLACEMENT FOR LANE CLOSURE

*SPEED LIMIT SHALL MATCH PERMANENT SPEED LIMIT.

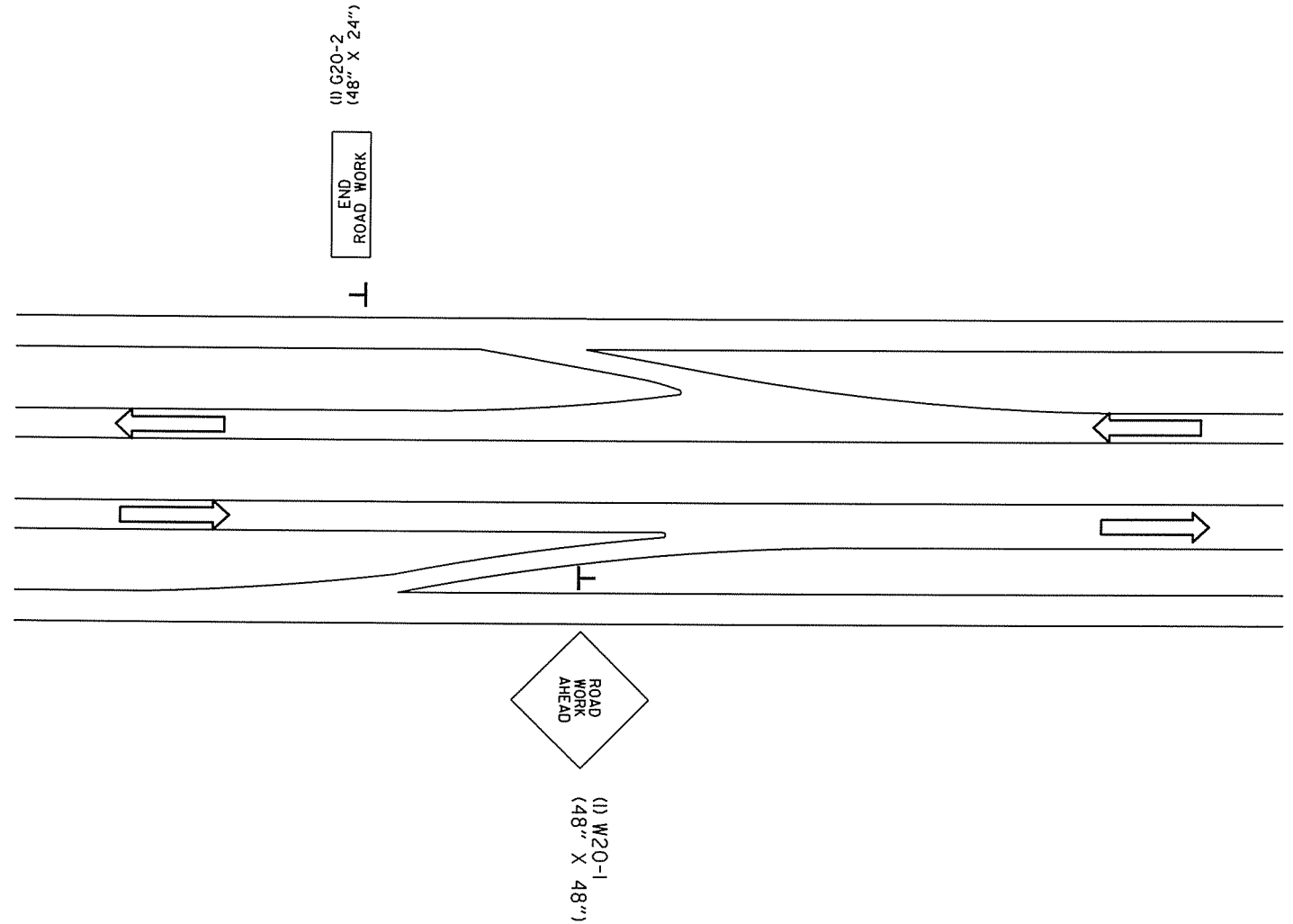
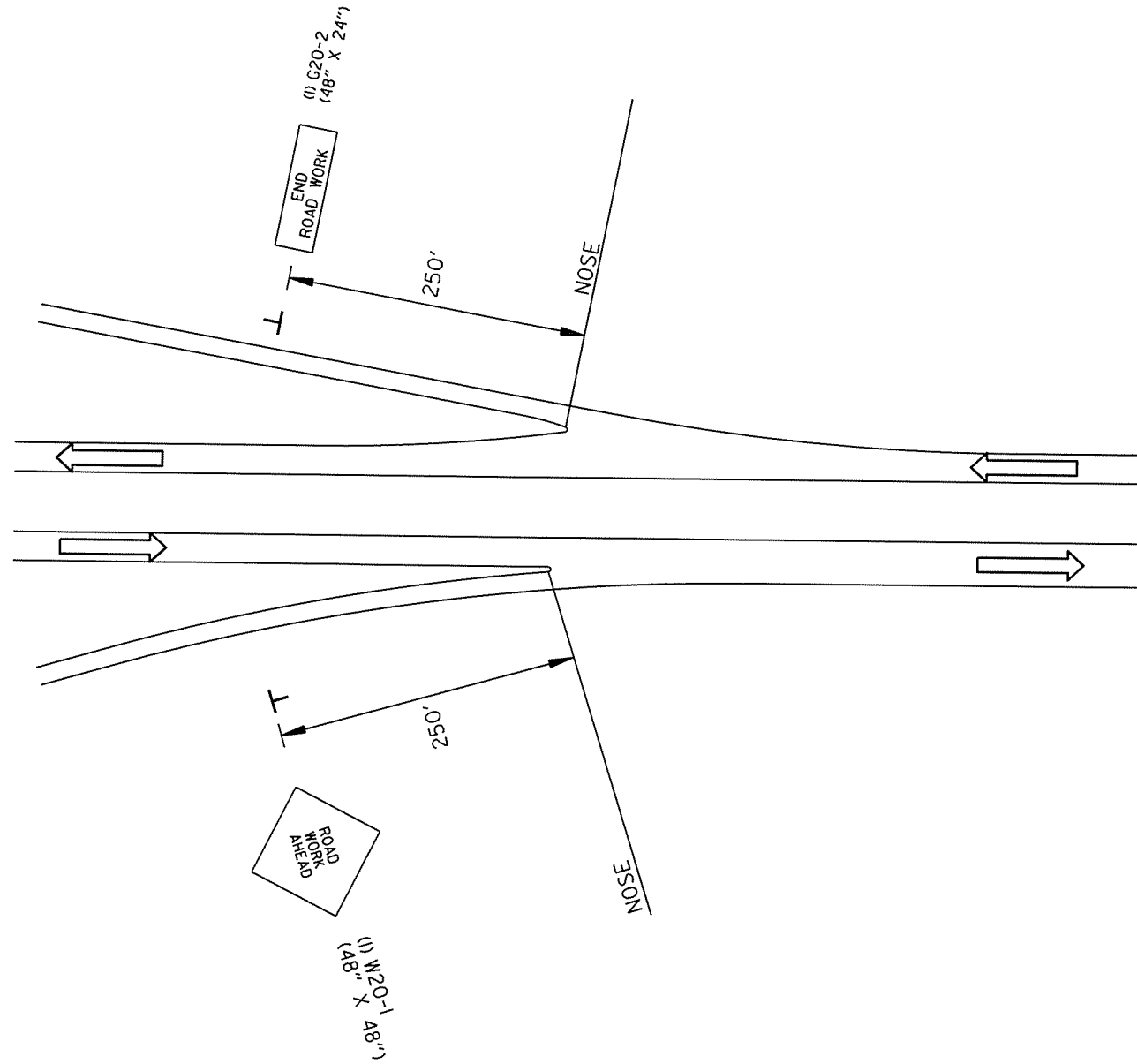
NOTES:
CONTRACTOR MUST UTILIZE ENTRY/EXIT LOCATION AS SHOWN ON THE PLANS.
REFER TO MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. TRAFFIC DRUMS PROVIDED IN CONTRACT ARE THE MAXIMUM NEEDED FOR ONE LANE CLOSURE IN ONE DIRECTION.

MOVABLE WORK ZONE FOR WRSF INSTALLATION

ADVANCE WARNING SIGNS FOR ENTRANCE AND EXIT RAMP
 ROAD WORK AHEAD (8) = 128 SQ. FT.
 END ROAD WORK (10) = 80 SQ. FT.

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. 061431							18	39

② MAINTENANCE OF TRAFFIC



DETAIL OF ENTRANCE AND EXIT RAMP

MAINTENANCE OF TRAFFIC
 DETAIL OF RAMPS

7/3/2014

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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	19	39

② QUANTITIES



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
			LIN. FT. - EACH		NO.	SQ. FT.			
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"	10	10	10	160.0			
G20-2	END ROAD WORK	48"x24"	12	12	12	96.0			
G20-1	ROAD WORK NEXT XX MILES	60"x24"	2	2	2	20.0			
R55-1	FINES DOUBLE IN WORK ZONES	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			
R2-5A	REDUCED SPEED AHEAD	48"x60"	2	2	2	40.0			
[SPECIAL]	MERGE NOW W/ ARROW	48"x48"	1	1	1	16.0			
W1-6	LARGE ARROW	60"x30"	6	6	6	75.0			
R4-1	DO NOT PASS	48"x60"	4	4	4	80.0			
RSP-1	SHOULDER CLOSED	48"x30"	3	3	3	30.0			
R2-1	SPEED LIMIT 45 MPH	48"x60"	2	2	2	40.0			
R2-1	SPEED LIMIT 55 MPH	48"x60"	2	2	2	40.0			
W4-2 RT.	MERGE RIGHT	48"x48"	2	2	2	32.0			
	TRAFFIC DRUMS		485	485			485		
	ADVANCE WARNING ARROW PANEL		1	1			35		
	PORTABLE CHANGEABLE MESSAGE SIGN		2	2				42	
TOTALS:						977.0	485	35	42

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

NOTE: THE QUANTITY OF TRAFFIC DRUMS PROVIDED IS FOR ONE WORK AREA OF 2 MILES. HOWEVER, THE INSTALLATION OF TRAFFIC DRUMS SHALL NEVER EXCEED THE ACTUAL WORK AREA BY MORE THAN 1/4 MILE, UNLESS APPROVED BY THE ENGINEER.

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QUANTITIES

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO.						061431	20	39

② QUANTITIES



GUARDRAIL

STATION	STATION	LOCATION	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 2)	TERMINAL ANCHOR POST (TYPE 1)
			LIN. FT.	EACH	
69+28.10	74+28.10	HWY. 70B - LEFT OF RIGHT MAIN LANES	450	1	1
71+78.03	76+78.03	HWY. 70B - RIGHT OF LEFT MAIN LANES	450	1	1
188+63.01	193+63.01	HWY. 70B - LEFT OF RIGHT MAIN LANES	450	1	1
191+16.03	196+16.03	HWY. 70B - RIGHT OF LEFT MAIN LANES	450	1	1
215+80.47	223+80.47	HWY. 70B - LEFT OF RIGHT MAIN LANES	750	1	1
218+43.74	226+18.74	HWY. 70B - RIGHT OF LEFT MAIN LANES	725	1	1
TOTALS:			3275	6	6

REMOVAL AND DISPOSAL ITEMS

STATION	LOCATION	IMPACT ATTENUATION BARRIER
		EACH
73+03	MAIN LANES	2
192+69	MAIN LANES	2
219+68	MAIN LANES	2
222+40	MAIN LANES	2
TOTAL:		8

CONCRETE DITCH PAVING

STATION	STATION	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
			LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
10+21.89	23+59.41	LEFT OF RIGHT MAIN LANES	1337.52	4	594.45	594.45	7.49
31+89.87	69+06.00	LEFT OF RIGHT MAIN LANES	3716.13	4	1651.61	1651.61	20.81
74+50.00	110+67.87	LEFT OF RIGHT MAIN LANES	3617.87	4	1607.94	1607.94	20.26
117+04.77	190+94.03	RIGHT OF LEFT MAIN LANES	7389.26	4	3284.12	3284.12	41.38
196+38.03	218+21.74	RIGHT OF LEFT MAIN LANES	2183.71	4	970.54	970.54	12.23
226+36.99	251+73.20	RIGHT OF LEFT MAIN LANES	2536.21	4	1127.20	1127.20	14.20
TOTALS:					9235.86	9235.86	116.37

BASIS OF ESTIMATE:

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

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 (E-7)	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	BAG	LIN. FT.	CU. YD.
ENTIRE	PROJECT	MAIN LANES	5.13	10.26	5.13	523.3	5.13				836	900	71
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			1.28	2.56	1.28	130.6	1.28	6.41	6.41	130.8	209	225	8
TOTALS:			6.41	12.82	6.41	653.9	6.41	6.41	130.8	1045	1125	79	

BASIS OF ESTIMATE:

LIME2 TONS / ACRE OF SEEDING
 WATER.....102.0 M.G. / ACRE OF SEEDING
 WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
 SAND BAG DITCH CHECKS.....22 BAGS / LOCATION
 DROP INLET SILT FENCE.....25 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.

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

QUANTITIES

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
				6	ARK.				
JOB NO.							061431	21	39

2 QUANTITIES



EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION CU. YD.
68+70.10	74+86.10	LEFT OF RIGHT MAIN LANES	894
71+35.03	77+21.03	RIGHT OF LEFT MAIN LANES	870
188+20.01	194+06.01	LEFT OF RIGHT MAIN LANES	870
190+58.03	196+74.03	RIGHT OF LEFT MAIN LANES	894
215+37.47	224+23.47	LEFT OF RIGHT MAIN LANES	1107
217+85.74	226+76.74	RIGHT OF LEFT MAIN LANES	1343
TOTAL:			5978

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

WIRE ROPE SAFETY FENCE

STATION	STATION	LOCATION	WIRE ROPE SAFETY FENCE	* WRSF ANCHOR	WRSF MAINTENANCE MATERIALS	**WRSF POST REPAIR
			LIN. FT.	EACH	LUMP SUM	EACH
10+21.89	23+59.41	LEFT OF RIGHT MAIN LANES	1337.52	2		
31+89.87	69+78.10	LEFT OF RIGHT MAIN LANES	3788.23	2		
73+78.10	110+67.87	LEFT OF RIGHT MAIN LANES	3689.77	2		
117+04.77	191+66.03	RIGHT OF LEFT MAIN LANES	7461.26	2		
195+66.03	218+93.74	RIGHT OF LEFT MAIN LANES	2327.71	2		
225+68.74	251+73.20	RIGHT OF LEFT MAIN LANES	2604.46	2		
ENTIRE PROJECT					1.00	50
TOTALS:			21208.95	12	1.00	50

* SHOWN FOR INFORMATION ONLY.
 ** QUANTITY ESTIMATED
 SEE SECTION 104.03 OF THE STD. SPECS.

BASE AND SURFACING

STATION	STATION	LOCATION	LENGTH FEET	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2")			
				TON / STATION	TON	AVG. WID. FEET	SQ.YD.	POUND / SQ.YD.	PG 64-22 TON
WIDENING FOR GUARDRAIL									
68+70.10	74+86.10	HWY. 70B - LEFT OF RIGHT MAIN LANES	616.00	VAR.	200.75	VAR.	590.84	220.00	64.99
71+35.03	77+21.03	HWY. 70B - RIGHT OF LEFT MAIN LANES	586.00	VAR.	186.75	VAR.	522.46	220.00	57.47
188+20.01	194+06.01	HWY. 70B - LEFT OF RIGHT MAIN LANES	586.00	VAR.	123.25	VAR.	337.93	220.00	37.17
190+58.03	196+74.03	HWY. 70B - RIGHT OF LEFT MAIN LANES	616.00	VAR.	136.00	VAR.	399.00	220.00	43.89
215+37.47	224+23.47	HWY. 70B - LEFT OF RIGHT MAIN LANES	886.00	VAR.	254.00	VAR.	521.49	220.00	57.36
217+85.74	226+76.74	HWY. 70B - RIGHT OF LEFT MAIN LANES	891.00	VAR.	197.25	VAR.	564.27	220.00	62.07
TOTALS:					1098.00		2935.99		322.95

BASIS OF ESTIMATE:
 ACHM SURFACE COURSE (1/2").....95.0% MIN. AGGR.....5.0% ASPHALT BINDER
 MAXIMUM NUMBER OF GYRATIONS = 115 FOR PG 64-22

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QUANTITIES

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	061431	22 39

② SUMMARY OF QUANTITIES & REVISIONS



SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
210	UNCLASSIFIED EXCAVATION	5978	CU. YD.
303	AGGREGATE BASE COURSE (CLASS 7)	1098	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	307	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	16	TON
601	MOBILIZATION	1.00	LUMP SUM
603	TRAFFIC CONTROL SUPERVISOR	1.00	LUMP SUM
SP & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
604	SIGNS	977	SQ. FT.
604	TRAFFIC DRUMS	485	EACH
604	ADVANCE WARNING ARROW PANEL	35	DAY
SP & 604	PORTABLE CHANGEABLE MESSAGE SIGN	42	WEEK
SP & 605	CONCRETE DITCH PAVING (TYPE B)	9236	SQ. YD.
617	GUARDRAIL (TYPE A)	3275	LIN. FT.
617	GUARDRAIL TERMINAL (TYPE 2)	6	EACH
617	TERMINAL ANCHOR POSTS (TYPE 1)	6	EACH
620	LIME	13	TON
620	SEEDING	6.41	ACRE
SS & 620	MULCH COVER	12.82	ACRE
620	WATER	901.1	M.GAL.
621	TEMPORARY SEEDING	6.41	ACRE
621	SAND BAG DITCH CHECKS	1045	BAG
621	DROP INLET SILT FENCE	1125	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	79	CU. YD.
623	SECOND SEEDING APPLICATION	6.41	ACRE
624	SOLID SODDING	9236	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER	8	EACH
SP	WIRE ROPE SAFETY FENCE	21209	LIN. FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM
SP	WIRE ROPE SAFETY FENCE (POST REPAIR)	50	EACH

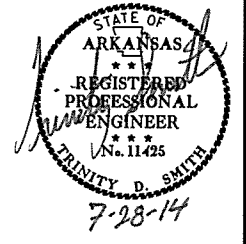
REVISIONS

DATE	REVISION	SHEET NUMBER

ZBORDER.CEL 8/14/2014

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. 061431	23	39

2 PLAN SHEETS



PI = 14+50.36
 Δ = 67°39'27"RT.
D = 5°00'00"
T = 767.96'
L = 1353.15'
PC = 6+82.40
PT = 20+35.55

STA. 14+49 - IN PLACE
TYPE H DROP INLET ON LT. WITH
18" X 46' R.C. PIPE INLET
(45°LT. FWD. SKEW)
18" X 72' R.C. PIPE OUTLET
(45°LT. FWD. SKEW)
RETAIN

STA. 19+47 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H=4'-0") I-OPENING
RETAIN

STA. 19+47 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H=5'-6") I-OPENING WITH
18" X 64' R.C. PIPE INLET
18" X 72' R.C. PIPE OUTLET
RETAIN

STA. 22+22 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H=3'-6") I-OPENING
RETAIN

STA. 21+73 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H=10'-0") I-OPENING WITH
18" X 100' R.C. PIPE INLET
(30°LT. FWD. SKEW)
18" X 80' R.C. PIPE INLET
RETAIN

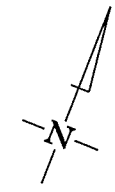
STA. 10+21.89
BEGIN JOB 061431
(LOG MILE 1.60)

STA. 14+98 - IN PLACE
TYPE H DROP INLET IN MEDIAN WITH
18" X 155' R.C. PIPE INLET
(45°RT. FWD. SKEW)

STA. 19+47 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H=4'-0") I-OPENING WITH
18" X 68' R.C. PIPE OUTLET
RETAIN

STA. 21+73 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H=5'-6") I-OPENING WITH
18" X 60' R.C. PIPE OUTLET
RETAIN

STA. 10+21.89
BEGIN WRSF



PC 6+82.40
PT 20+35.55
P&B 6+42.12

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STA. 21+73 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H=10'-0") I-OPENING WITH
18" X 100' R.C. PIPE INLET
(30° LT. FWD. SKEW)
18" X 80' R.C. PIPE INLET
RETAIN

STA. 22+22 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H=3'-6") I-OPENING
RETAIN

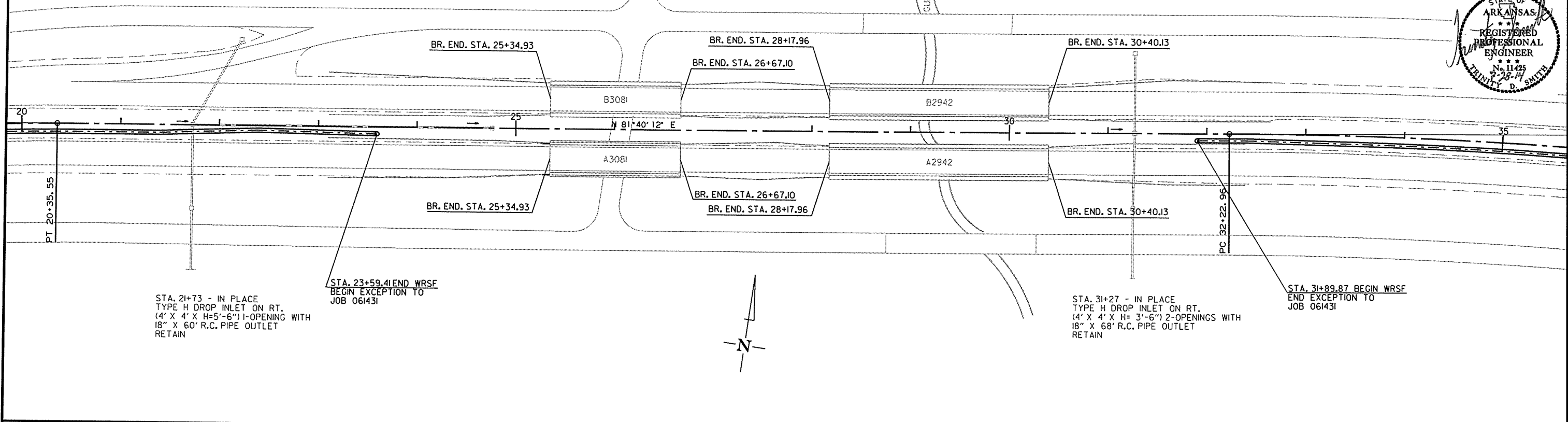
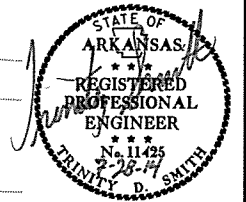
STA. 24+76 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H=3'-0") 2-OPENINGS WITH
18" X 300' R.C. PIPE OUTLET
CONNECTED TO DROP INLET AT STA. 21+73
RETAIN

STA. 31+27 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H= 3'-6") 2-OPENINGS
RETAIN

STA. 31+27 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H=10'-0") 2-OPENINGS WITH
18" X 76' R.C. PIPE INLET
18" X 72' R.C. PIPE OUTLET
RETAIN

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

2 PLAN SHEETS



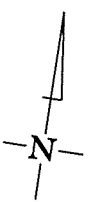
STA. 21+73 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H=5'-6") I-OPENING WITH
18" X 60' R.C. PIPE OUTLET
RETAIN

STA. 23+59.41 END WRSF
BEGIN EXCEPTION TO
JOB 061431

BR. END. STA. 26+67.10
BR. END. STA. 28+17.96

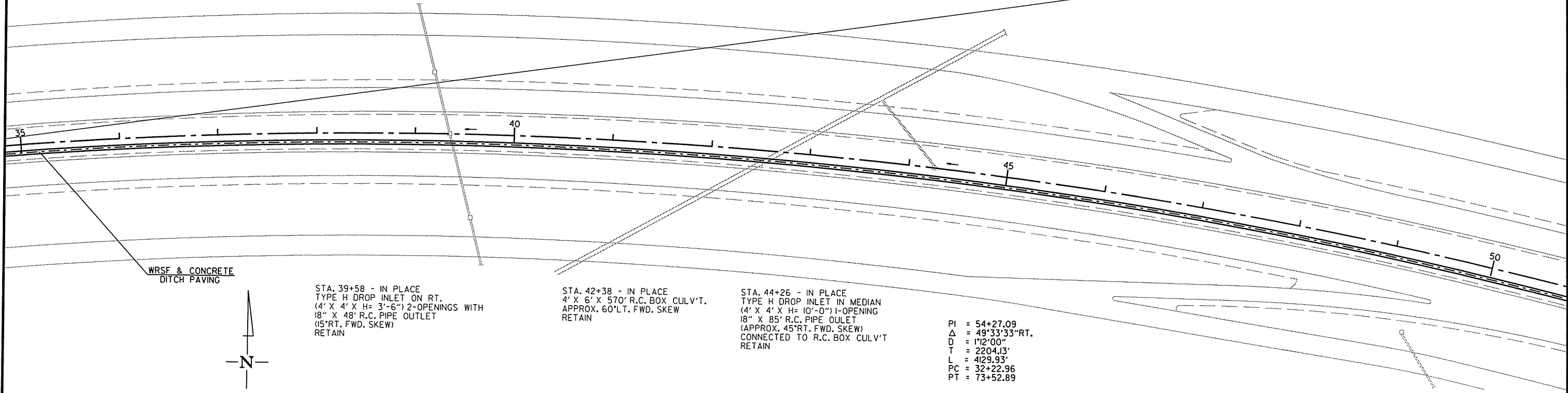
STA. 31+27 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H= 3'-6") 2-OPENINGS WITH
18" X 68' R.C. PIPE OUTLET
RETAIN

STA. 31+89.87 BEGIN WRSF
END EXCEPTION TO
JOB 061431



STA. 39+19 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H= 6'-0") I-OPENING WITH
18" X 70' R.C. PIPE INLET
(15° RT. FWD. SKEW)
RETAIN

STA. 39+35 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H= 6'-0") I-OPENING WITH
18" X 60' R.C. PIPE INLET
(15° RT. FWD. SKEW)
18" X 82' R.C. PIPE OUTLET
(15° RT. FWD. SKEW)
RETAIN



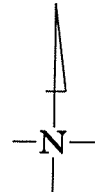
WRSF & CONCRETE
DITCH PAVING

STA. 39+58 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H= 3'-6") 2-OPENINGS WITH
18" X 48' R.C. PIPE OUTLET
(15° RT. FWD. SKEW)
RETAIN

STA. 42+38 - IN PLACE
4' X 6' X 570' R.C. BOX CULV'T.
APPROX. 60° LT. FWD. SKEW
RETAIN

STA. 44+26 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H= 10'-0") I-OPENING
18" X 85' R.C. PIPE OUTLET
(APPROX. 45° RT. FWD. SKEW)
CONNECTED TO R.C. BOX CULV'T
RETAIN

PI = 54+27.09
Δ = 49°33'33" RT.
D = 1'12" 00"
T = 2204.13'
L = 4129.93'
PC = 32+22.96
PT = 73+52.89



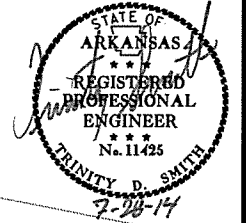
PLAN SHEETS

7/25/2014

R0614.31.DGN

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		25	39

2 PLAN SHEETS



STA. 54+45 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H= 5'-6") 2-OPENINGS WITH
24" X 64' R.C. PIPE INLET
24" X 72' R.C. PIPE OUTLET
RETAIN

STA. 60+24 - IN PLACE
8' X 8' X H= 5'-6" JCT. BOX WITH
TYPE K DROP INLET ON LT.
(4' X 4' X H= 3'-0") I-OPENING WITH
60" X 88' R.C. PIPE INLET
(45°RT. FWD. SKEW)
RETAIN

STA. 60+92 - IN PLACE
8' X 8' X H= 5'-6" JCT. BOX WITH
TYPE K DROP INLET IN MEDIAN
(4' X 4' X H= 5'-0") I-OPENING WITH
60" X 96' R.C. PIPE INLET
(45°RT. FWD. SKEW)
RETAIN

STA. 54+45 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H= 5'-6") 2-OPENINGS WITH
24" X 68' R.C. PIPE OUTLET
RETAIN

PI = 54+27.09
Δ = 49°33'33"RT.
D = 1'12'00"
T = 2204.13'
L = 4129.93'
PC = 32+22.96
PT = 73+52.89

WRSF & CONCRETE
DITCH PAVING

STA. 60+92 - IN PLACE
TYPE H DROP INLET ON RT.
(4' X 4' X H= 3'-0") I-OPENING WITH
18" X 72' R.C. PIPE OUTLET
RETAIN

STA. 66+00 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H= 3'-0") I-OPENING WITH
18" X 68' R.C. PIPE OUTLET
RETAIN

STA. 66+18 - IN PLACE
8' X 8' X H= 5'-6" JCT. BOX IN WITH
TYPE K DROP INLET IN MEDIAN
(4' X 4' X H= 2'-0") I-OPENING WITH
60" X 492' R.C. PIPE INLET
CONNECTED TO DROP INLET STA. 60+92
60" X 420' R.C. PIPE OUTLET
RETAIN

STA. 70+80 - IN PLACE
TYPE H DROP INLET ON LT.
(4' X 4' X H= 5'-6") I-OPENING
24" X 128' R.C. PIPE INLET
(30°RT. FWD. SKEW)
RETAIN

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
STA. 73+03 C.L. OF HWY. 70 = 2 EACH

STA. 79+63 - IN PLACE
6' X 6' X 320' R.C. BOX CULV'T.
(APPROX. 55°LT. FWD. SKEW)
TYPE K DROP INLET IN MEDIAN & ON LT.
(4' X 3' X H= 1'-0") I-OPENING
RETAIN

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
69+28.10	74+28.10	R.M.L. - LT.	450 LIN. FT.	IEA.	IEA.
71+78.03	76+78.03	R.M.L. - RT.	450 LIN. FT.	IEA.	IEA.

PT 73+52.89

PC 78+37.37

STA 69+78.10
END WRSF

STA. 66+18 - IN PLACE
TYPE H DROP INLET ON RT
(4' X 4' X H= 3'-0") I-OPENING WITH
18" X 168' R.C. PIPE INLET
18" X 60' R.C. PIPE OUTLET
RETAIN

STA. 70+80 - IN PLACE
TYPE H DROP INLET IN MEDIAN
(4' X 4' X H= 5'-6") I-OPENING WITH
24" X 80' R.C. PIPE INLET
(30°RT. FWD. SKEW)
24" X 80' R.C. PIPE OUTLET
(30°RT. FWD. SKEW)
RETAIN

PI = 54+27.09
Δ = 49°33'33"RT.
D = 1'12'00"
T = 2204.13'
L = 4129.93'
PC = 32+22.96
PT = 73+52.89

PI = 80+51.53
Δ = 4°16'52"RT.
D = 1'00'00"
T = 214.16'
L = 428.12'
PC = 78+37.37
PT = 82+65.49

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R0614 31.DGN

PLAN SHEETS

STA. 79+63 - IN PLACE
 6' X 6' X 320' R.C. BOX CULV'T.
 (APPROX. 55' LT. FWD. SKEW)
 TYPE K DROP INLET IN MEDIAN & ON LT.
 (4' X 3' X H= 1'-0") I-OPENING
 RETAIN

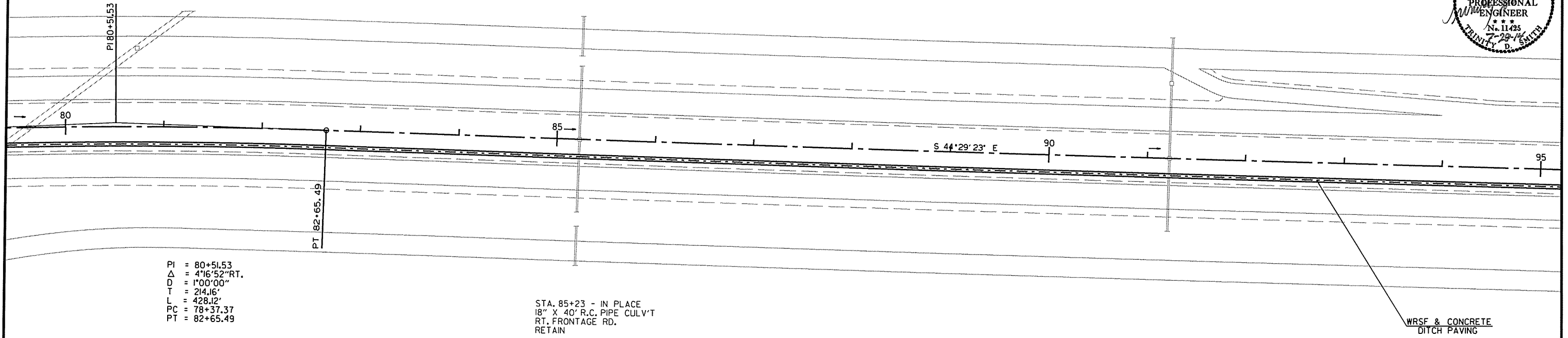
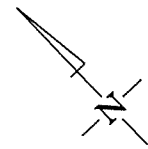
STA. 85+23 - IN PLACE
 18" X 40' R.C. PIPE CULV'T
 LT. FRONTAGE RD.
 RETAIN

STA. 85+23 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 4' X H= 3'-0") I-OPENING WITH
 18" X 72' R.C. PIPE INLET
 18" X 72' R.C. PIPE OUTLET
 RETAIN

STA. 91+22 - IN PLACE
 TYPE H DROP INLET ON LT.
 (4' X 4' X H= 4'-0") I-OPENING
 18" X 44' R.C. PIPE OUTLET
 RETAIN

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	26	39

2 PLAN SHEETS



PI = 80+51.53
 Δ = 4°16'52" RT.
 D = 1°00'00"
 T = 214.16'
 L = 428.12'
 PC = 78+37.37
 PT = 82+65.49

STA. 85+23 - IN PLACE
 18" X 40' R.C. PIPE CULV'T
 RT. FRONTAGE RD.
 RETAIN

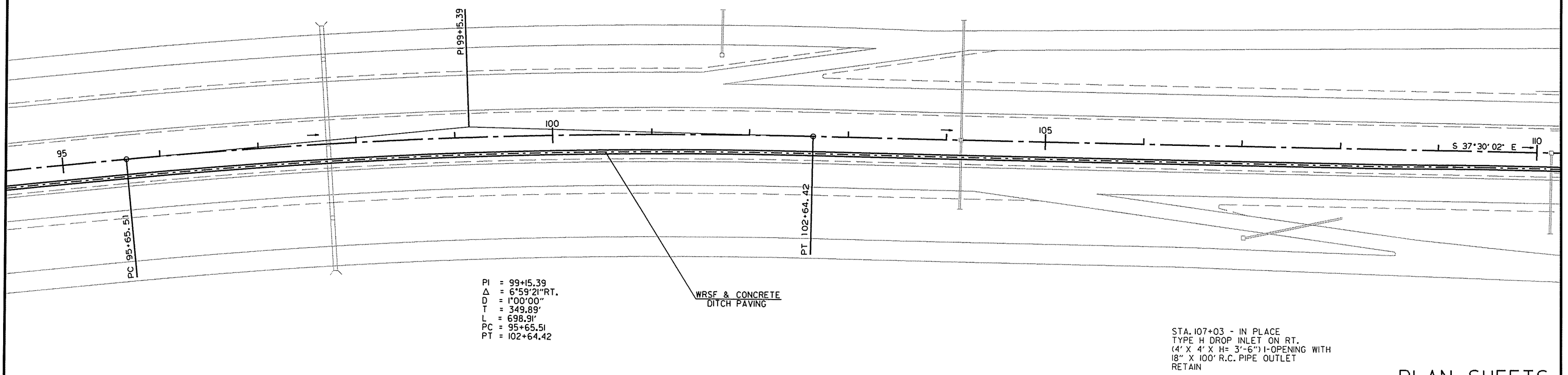
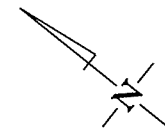
WRSF & CONCRETE
 DITCH PAVING

STA. 97+72 - IN PLACE
 4' X 6' X 250' R.C. BOX CULV'T
 TYPE K DROP INLETS IN MEDIAN
 & ON LT. AND RT.
 (4' X 4' X H= 1'-0") I-OPENING
 RETAIN

STA. 101+71 - IN PLACE
 TYPE H DROP INLET ON LT.
 (4' X 4' X H= 3'-0") 2-OPENINGS
 18" X 44' R.C. PIPE OUTLET
 RETAIN

STA. 104+15 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 4' X H= 3'-0") I-OPENING WITH
 18" X 68' R.C. PIPE INLET
 18" X 120' R.C. PIPE OUTLET
 RETAIN

STA. 91+22 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 4' X H= 3'-0") I-OPENING WITH
 18" X 72' R.C. PIPE INLET
 18" X 72' R.C. PIPE OUTLET
 RETAIN



PI = 99+15.39
 Δ = 6°59'21" RT.
 D = 1°00'00"
 T = 349.89'
 L = 698.91'
 PC = 95+65.51
 PT = 102+64.42

WRSF & CONCRETE
 DITCH PAVING

STA. 107+03 - IN PLACE
 TYPE H DROP INLET ON RT.
 (4' X 4' X H= 3'-6") I-OPENING WITH
 18" X 100' R.C. PIPE OUTLET
 RETAIN

PLAN SHEETS

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STA. 110+15 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 4' X H= 4'-6") 2-OPENINGS WITH
 18" X 80' R.C. PIPE OUTLET
 RETAIN

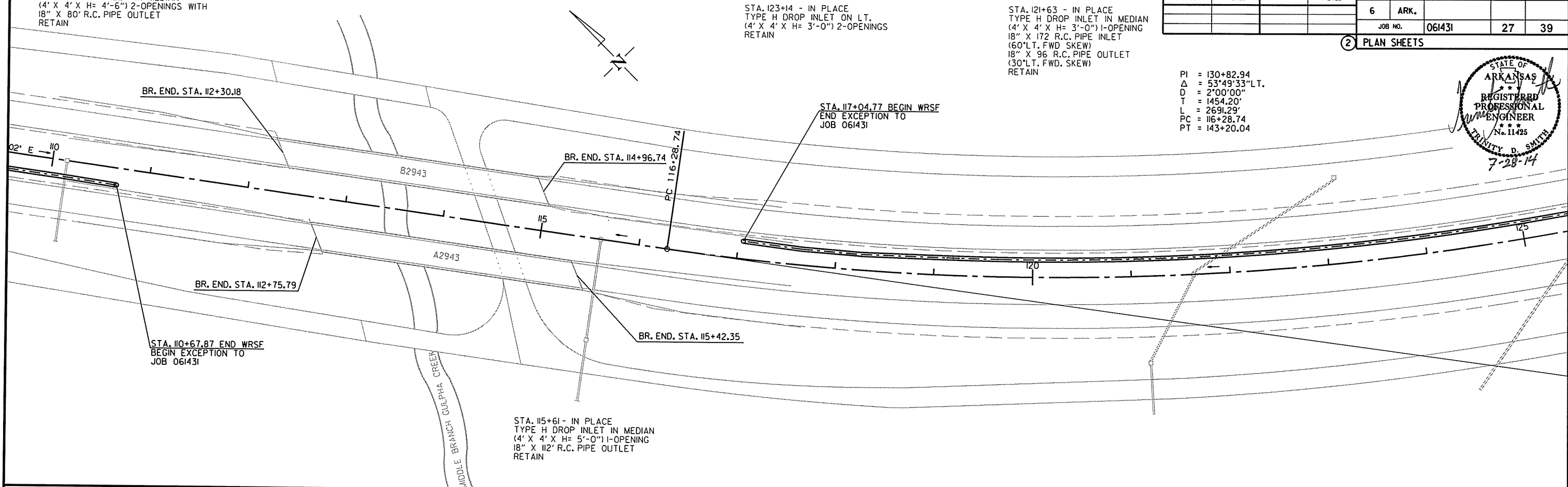
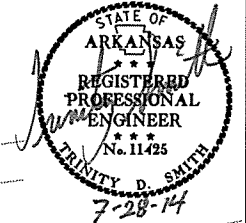
STA. 123+14 - IN PLACE
 TYPE H DROP INLET ON LT.
 (4' X 4' X H= 3'-0") 2-OPENINGS
 RETAIN

STA. 121+63 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 4' X H= 3'-0") 1-OPENING
 18" X 172 R.C. PIPE INLET
 (60' LT. FWD SKEW)
 18" X 96 R.C. PIPE OUTLET
 (30' LT. FWD. SKEW)
 RETAIN

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	27	39

2 PLAN SHEETS

PI = 130+82.94
 Δ = 53°49'33" LT.
 D = 2°00'00"
 T = 1454.20'
 L = 2691.29'
 PC = 116+28.74
 PT = 143+20.04

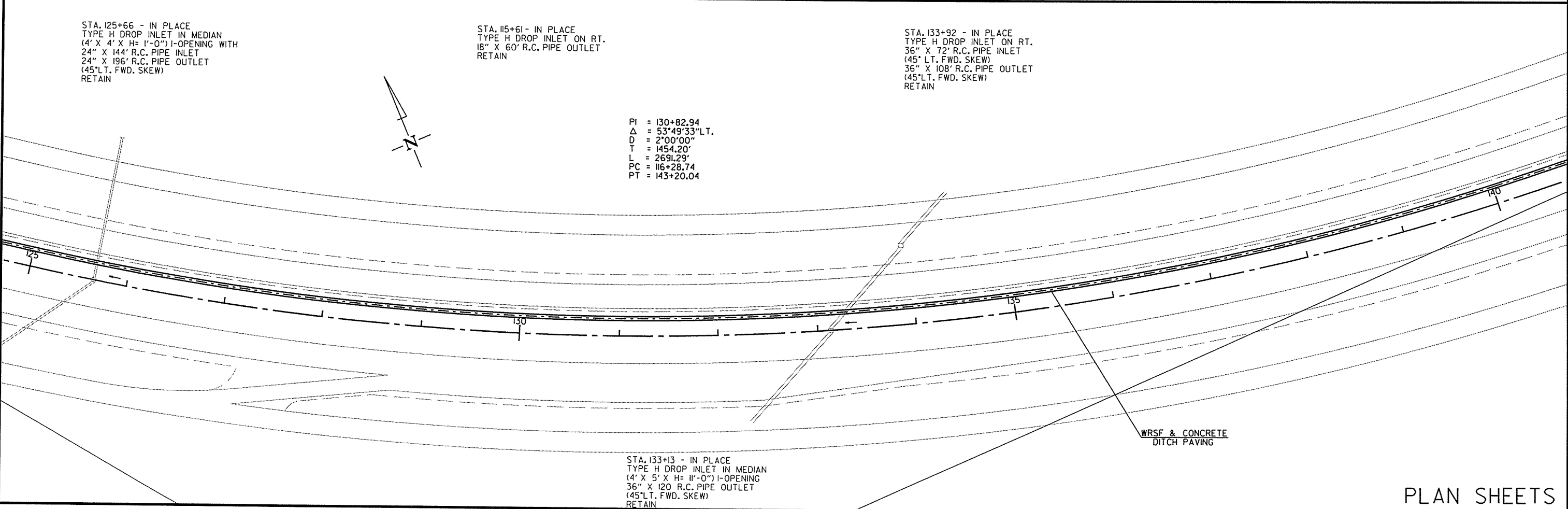


STA. 125+66 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 4' X H= 1'-0") 1-OPENING WITH
 24" X 144' R.C. PIPE INLET
 24" X 196' R.C. PIPE OUTLET
 (45' LT. FWD. SKEW)
 RETAIN

STA. 115+61 - IN PLACE
 TYPE H DROP INLET ON RT.
 18" X 60' R.C. PIPE OUTLET
 RETAIN

STA. 133+92 - IN PLACE
 TYPE H DROP INLET ON RT.
 36" X 72' R.C. PIPE INLET
 (45' LT. FWD. SKEW)
 36" X 108' R.C. PIPE OUTLET
 (45' LT. FWD. SKEW)
 RETAIN

PI = 130+82.94
 Δ = 53°49'33" LT.
 D = 2°00'00"
 T = 1454.20'
 L = 2691.29'
 PC = 116+28.74
 PT = 143+20.04



STA. 133+13 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 5' X H= 11'-0") 1-OPENING
 36" X 120 R.C. PIPE OUTLET
 (45' LT. FWD. SKEW)
 RETAIN

PLAN SHEETS

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PI = 130+82.94
 Δ = 53°49'33"LT.
 D = 2'00'00"
 T = 1454.20'
 L = 2691.29'
 PC = 116+28.74
 PT = 143+20.04



STA. 142+16 - IN PLACE
 TYPE H DROP INLET ON LT.
 42" X 60' R.C. PIPE INLET
 42" X 68' R.C. PIPE OULET
 RETAIN

STA. 142+16 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 6' X H= 5'-0") 2-OPENINGS
 42" X 80' R.C. PIPE OULET
 RETAIN

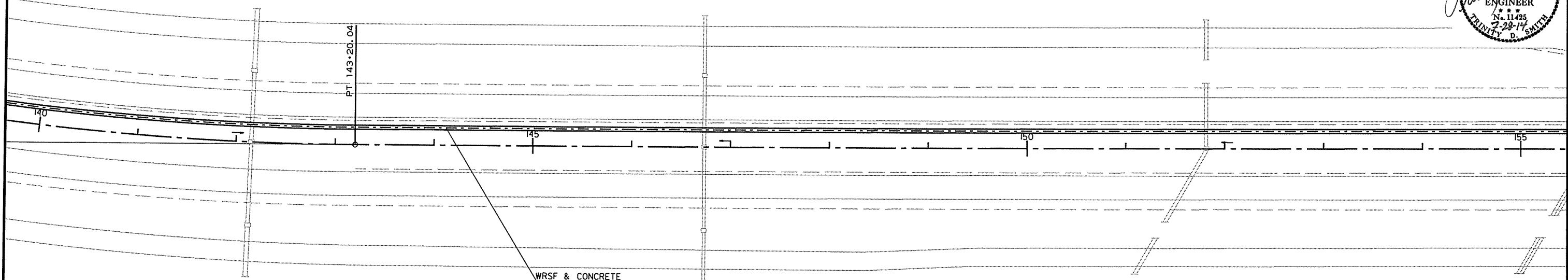
STA. 146+74 - IN PLACE
 TYPE H DROP INLET ON LT. WITH
 36" X 48' R.C. PIPE INLET
 36" X 68' R.C. PIPE OULET
 RETAIN

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 061431							28	39

2 PLAN SHEETS



STA. 151+81 - IN PLACE
 42" X 40' R.C. PIPE CULV'T.
 LT. FRONTAGE RD.
 RETAIN



STA. 142+16 - IN PLACE
 TYPE H DROP INLET ON RT
 42" X 50' R.C. PIPE OULET
 RETAIN

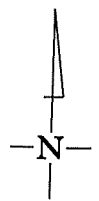
STA. 146+74 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 5' X H= 4'-6") I-OPENING
 36" X 80' R.C. PIPE OULET
 RETAIN

STA. 146+74 - IN PLACE
 TYPE H DROP INLET ON RT. WITH
 36" X 50' R.C. PIPE OULET
 RETAIN

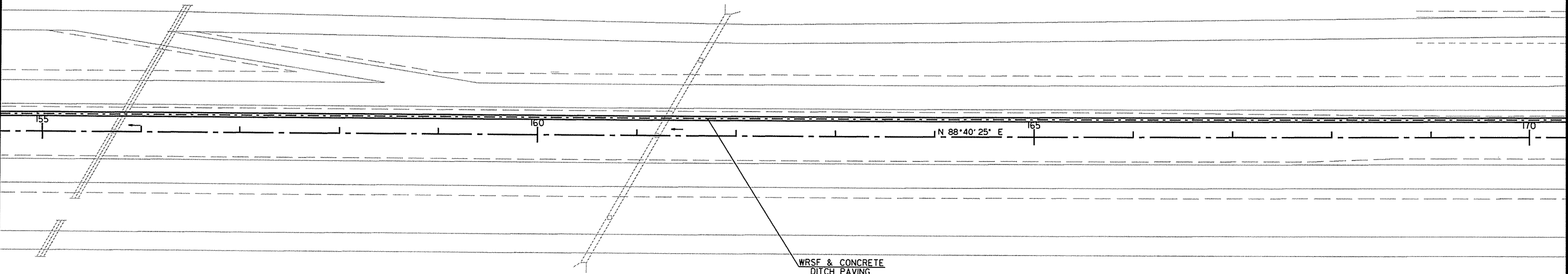
STA. 151+81 - IN PLACE
 TYPE H DROP INLET IN MEDIAN
 (4' X 6' X H= 5'-6") I-OPENING WITH
 42" X 64' R.C. PIPE INLET
 42" X 84' R.C. PIPE OULET
 (30'LT. FWD. SKEW)
 RETAIN

STA. 155+09 - IN PLACE
 DBL. 36" X 42' R.C. PIPE CULV'T.
 (30'LT. FWD. SKEW)
 RT. FRONTAGE RD.
 RETAIN

STA. 155+72 - IN PLACE
 DBL 36" X 225' R.C. PIPE CULV'T WITH
 TYPE H DROP INLET IN MEDIAN
 (4' X 5' X H= 4'-6") I-OPENING
 (30'LT. FWD. SKEW)
 RETAIN



STA. 161+21 - IN PLACE
 5' X 4' X 289' R.C. PIPE CULV'T.
 (30'LT. FWD. SKEW)
 TYPE K DROP INLET IN MEDIAN
 (4' X 4' X H= 1'-0") I-OPENING
 TYPE K DROP INLETS ON LT. & RT.
 RETAIN



WRSF & CONCRETE
 DITCH PAVING

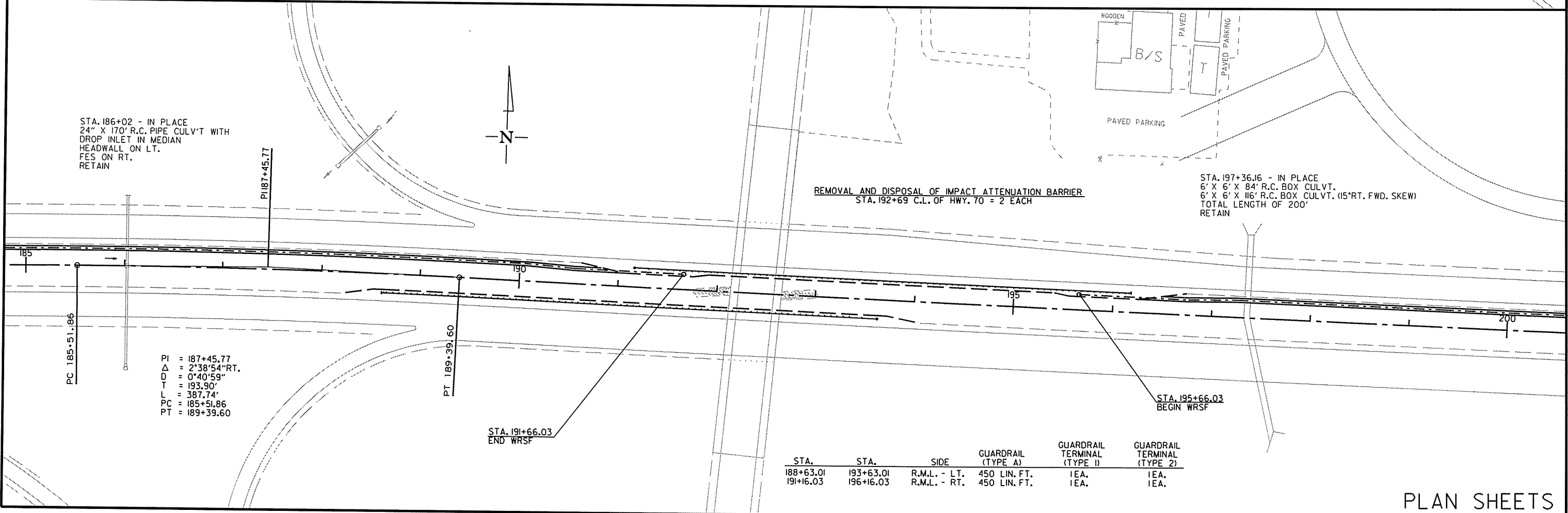
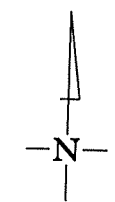
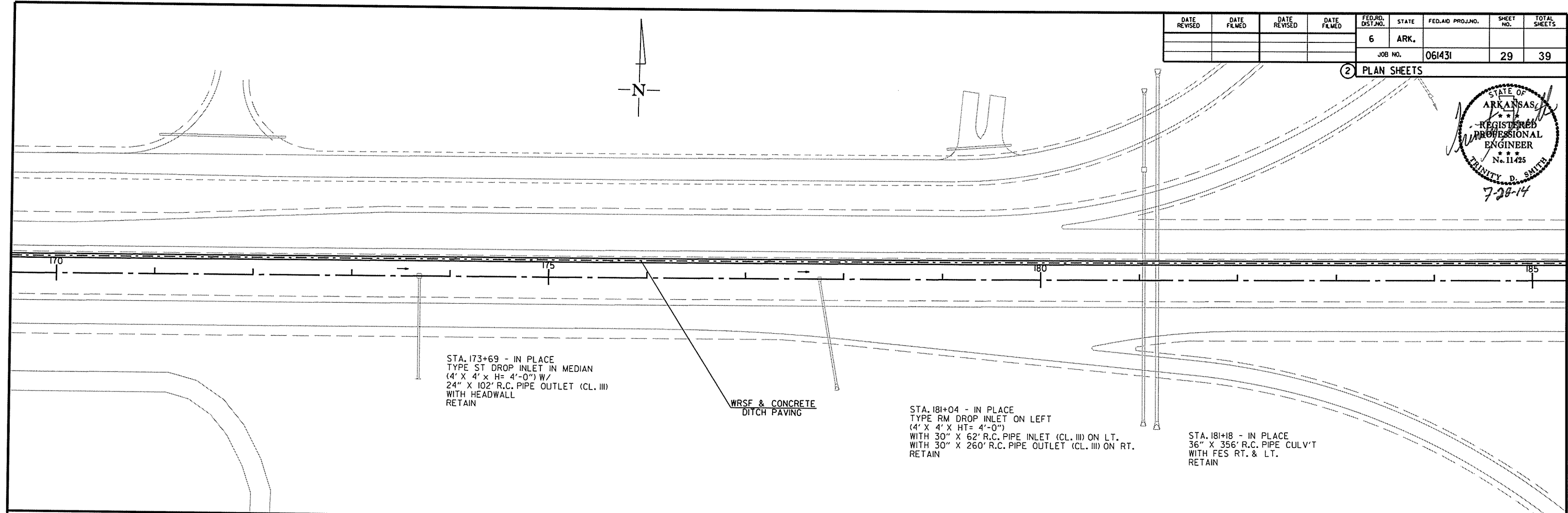
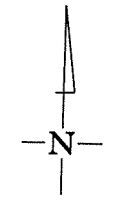
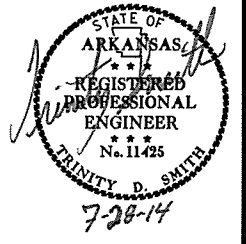
7/25/2014

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PLAN SHEETS

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

② PLAN SHEETS



PI = 187+45.77
Δ = 2°38'54" RT.
D = 0°40'59"
T = 193.90'
L = 387.74'
PC = 185+51.86
PT = 189+39.60

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
188+63.01	193+63.01	R.M.L. - LT.	450 LIN. FT.	1EA.	1EA.
191+16.03	196+16.03	R.M.L. - RT.	450 LIN. FT.	1EA.	1EA.

PLAN SHEETS

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STA. 204+55 - IN PLACE
TYPE RM DROP INLET ON LT.
WITH 30" X 80' PIPE OUTLET (30°RT. FWD. SKEW)
WITH FES
RETAIN

STA. 204+55 - IN PLACE
TYPE RM DROP INLET IN MEDIAN
WITH 30" X 80' R.C. PIPE INLET
WITH 30" X 60' R.C. PIPE OUTLET
RETAIN

STA. 209+53 - IN PLACE
TYPE RM DROP INLET LT.
WITH 30" X 70' R.C. PIPE INLET
(30°RT. FWD. SKEW)
WITH FES
RETAIN

STA. 210+03 - IN PLACE
TYPE RM DROP INLET IN MEDIAN
WITH 30" X 100' R.C. PIPE INLET
(30°RT. FWD. SKEW)
WITH 30" X 60' R.C. PIPE OUTLET
RETAIN

WRSF & CONCRETE
DITCH PAVING

STA. 204+55 - IN PLACE
TYPE ST DROP INLET ON RT.
WITH 30" X 2' R.C. STUB OUTLET
RETAIN

STA. 204+55 - IN PLACE
TYPE ST DROP INLET ON RT.
WITH 30" X 72' R.C. PIPE OUTLET
WITH FES (H= 13'-0")
RETAIN

STA. 205+15 - IN PLACE
TYPE ST DROP INLET ON RT.
WITH 18" X 2' STUB OUTLET (H= 4'-6")
RETAIN

STA. 205+15 - IN PLACE
TYPE ST DROP INLET ON RT.
WITH 18" X 46' R.C. PIPE OUTLET
WITH FES (H= 4'-6")
RETAIN

STA. 210+37 - IN PLACE
TYPE ST DROP INLET RT.
WITH 30" X 120' R.C. PIPE OUTLET
WITH FES
RETAIN

STA. 210+35 - IN PLACE
TYPE ST DROP INLET RT.
WITH 30" X 2' STUB OUTLET
(30°RT. FWD. SKEW)
RETAIN

PI = 218+59.34
Δ = 6°51'05"LT.
D = 0°55'38"
T = 369.89'
L = 738.91'
PC = 214+89.44
PT = 222+28.35

STA. 857+98 - IN PLACE
8' X 7' X 12 R.C. BOX CULV'T
WITH TYPE TM DROP INLET IN MEDIAN
(4'-0" X 3'-0" X H= 14'-4")
8' X 7' X 490' R.C. BOX CULV'T
(45°RT. FWD. SKEW)
RETAIN

REMOVAL AND DISPOSAL OF IMPACT ATTENUATION BARRIER
STA. 219+68 C.L. OF HWY. 70 = 2 EACH
STA. 222+40 C.L. OF HWY. 70 = 2 EACH

STA. 228+15 - IN PLACE
TYPE RM DROP INLET IN MEDIAN
(4'-0" X 3'-0" X H= 2'-5")
WITH 18" X 96' R.C. PIPE OUTLET
WITH FES
RETAIN

STA. 218+93.74
END WRSF

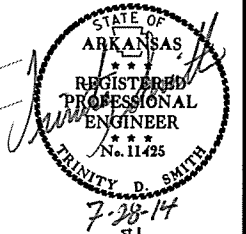
STA. 225+68.74
BEGIN WRSF

STA 216+10 - IN PLACE
TYPE RM DROP INLET IN MEDIAN
WITH 18" X 86' R.C. PIPE OUTLET
(H= 2'-5")
RETAIN

STA.	STA.	SIDE	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
215+80.47	223+80.47	R.M.L. - LT.	750 LIN. FT.	1EA.	1EA.
218+43.74	226+18.74	R.M.L. - RT.	725 LIN. FT.	1EA.	1EA.

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

2 PLAN SHEETS



PC 214+89.44

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R0614-31.DGN

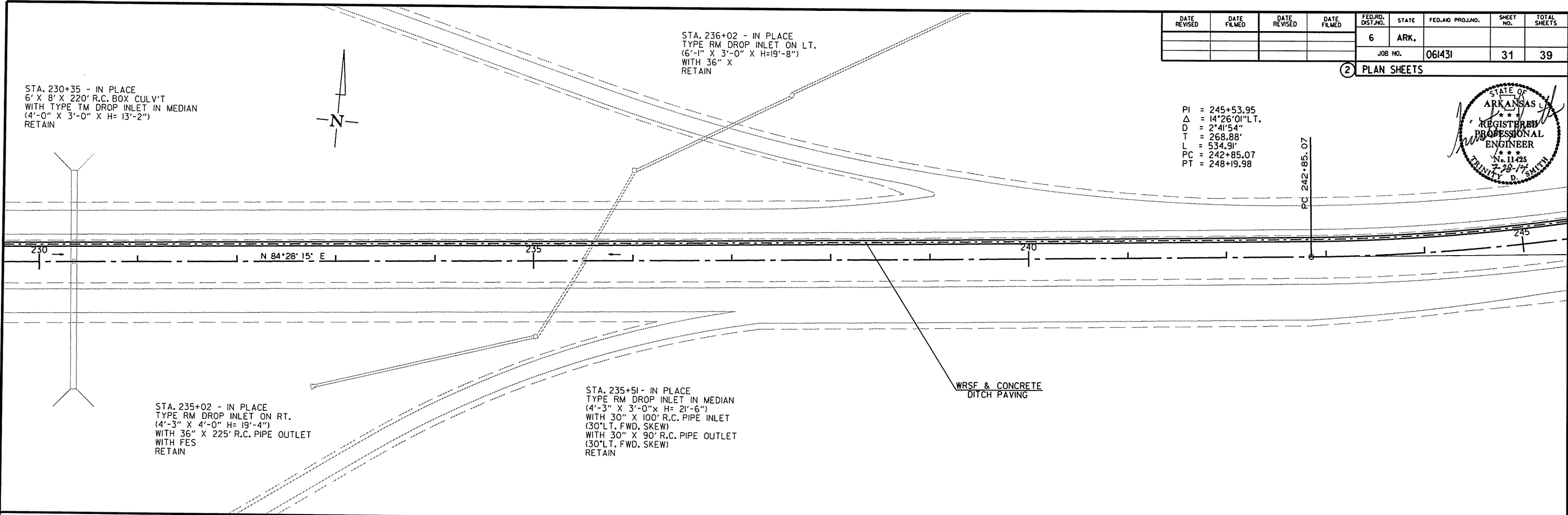
PLAN SHEETS

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 061431	31	39

2 PLAN SHEETS



PI = 245+53.95
 Δ = 14°26'01" LT.
 D = 2°41'54"
 T = 268.88'
 L = 534.91'
 PC = 242+85.07
 PT = 248+19.98

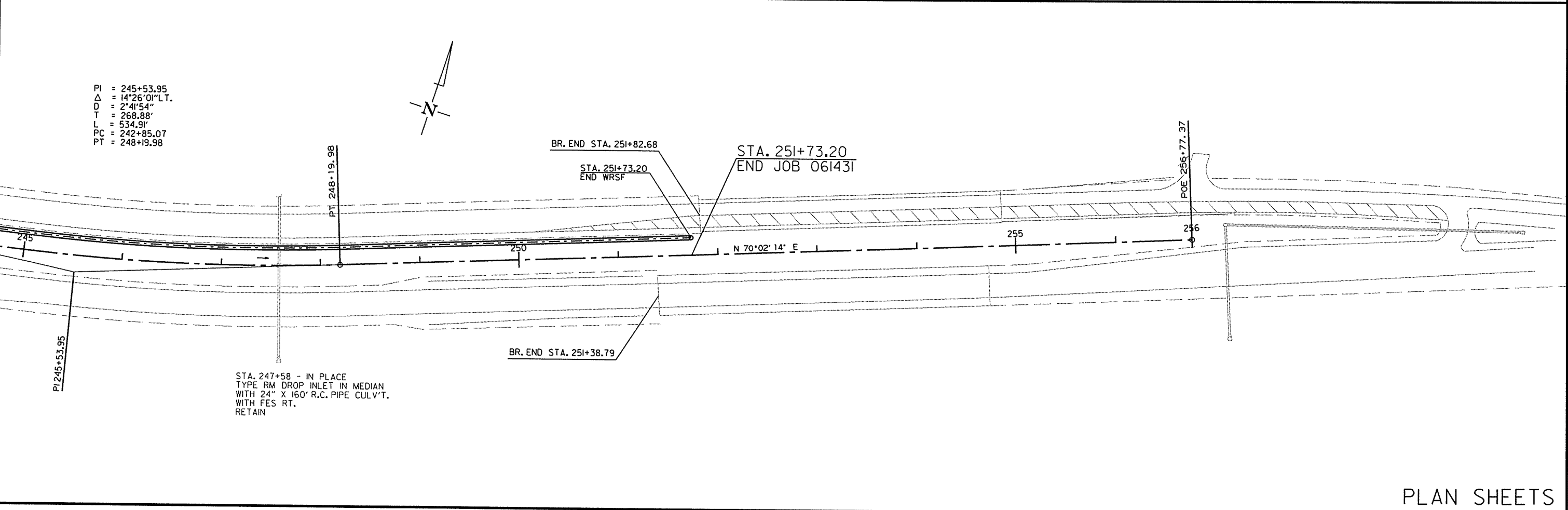


STA. 230+35 - IN PLACE
 6' X 8' X 220' R.C. BOX CULV'T
 WITH TYPE TM DROP INLET IN MEDIAN
 (4'-0" X 3'-0" X H=13'-2")
 RETAIN

STA. 236+02 - IN PLACE
 TYPE RM DROP INLET ON LT.
 (6'-1" X 3'-0" X H=19'-8")
 WITH 36" X
 RETAIN

STA. 235+02 - IN PLACE
 TYPE RM DROP INLET ON RT.
 (4'-3" X 4'-0" H=19'-4")
 WITH 36" X 225' R.C. PIPE OUTLET
 WITH FES
 RETAIN

STA. 235+51 - IN PLACE
 TYPE RM DROP INLET IN MEDIAN
 (4'-3" X 3'-0" X H=21'-6")
 WITH 30" X 100' R.C. PIPE INLET
 (30' LT. FWD. SKEW)
 WITH 30" X 90' R.C. PIPE OUTLET
 (30' LT. FWD. SKEW)
 RETAIN



PI = 245+53.95
 Δ = 14°26'01" LT.
 D = 2°41'54"
 T = 268.88'
 L = 534.91'
 PC = 242+85.07
 PT = 248+19.98

BR. END STA. 251+82.68

STA. 251+73.20
 END WRSF

STA. 251+73.20
 END JOB 061431

BR. END STA. 251+38.79

STA. 247+58 - IN PLACE
 TYPE RM DROP INLET IN MEDIAN
 WITH 24" X 160' R.C. PIPE CULV'T.
 WITH FES RT.
 RETAIN

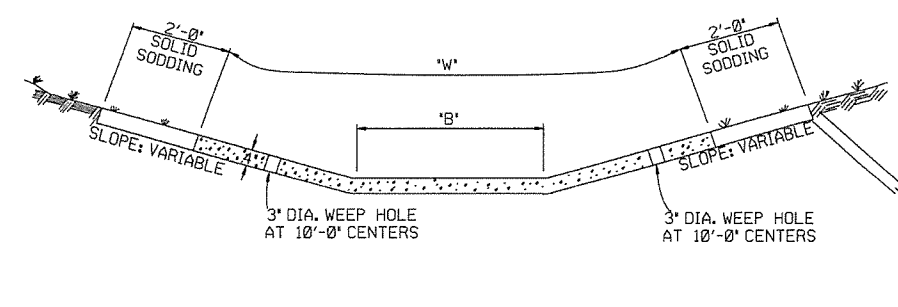
7/25/2014

R061431.DGN

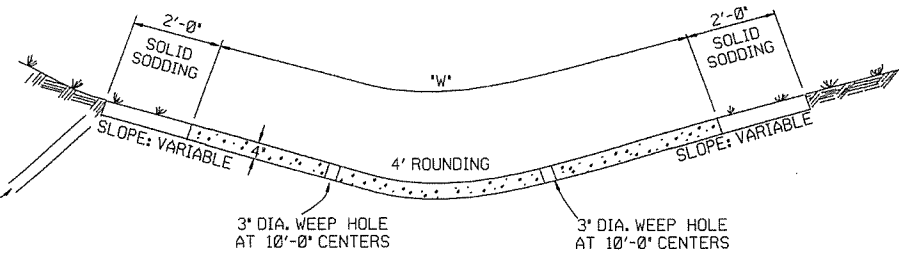
PLAN SHEETS

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

REFER TO TABULATION OF QUANTITIES FOR 'W' DIMENSIONS

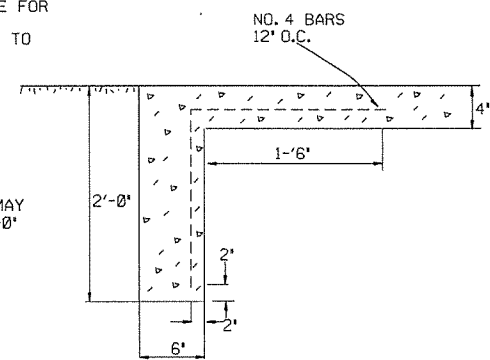


TYPE A

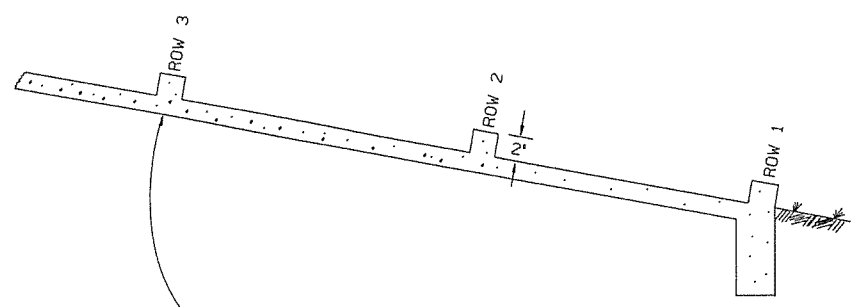


TYPE B

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.'

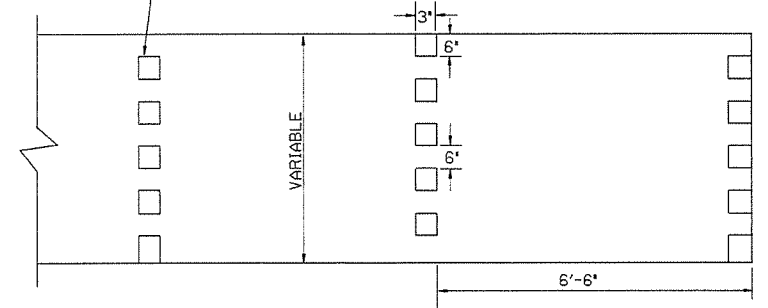


TOE WALL DETAIL FOR CONCRETE DITCH PAVING



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:

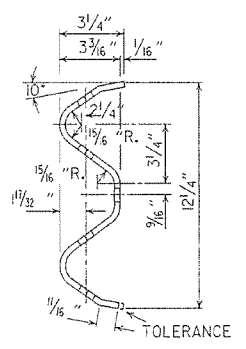
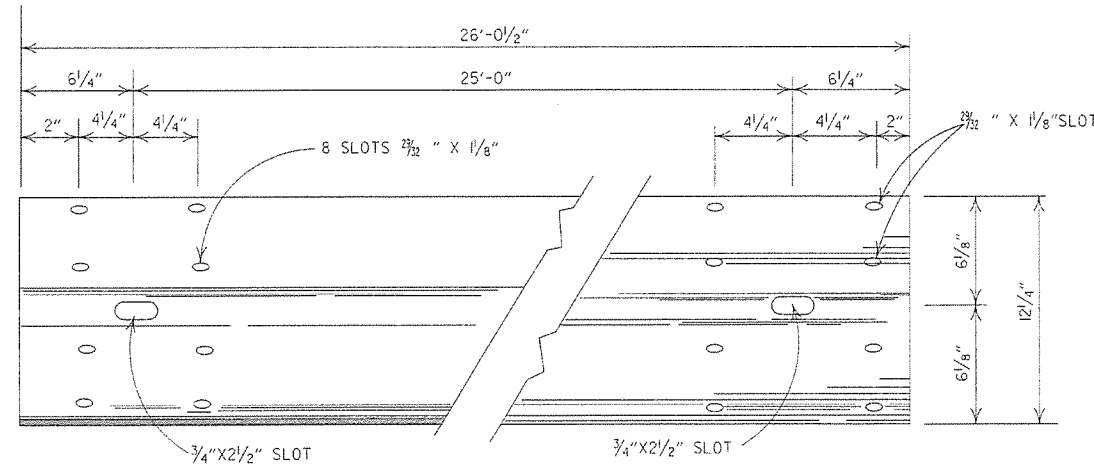
- THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.
- TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.
- SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.
- 1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

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
	ADDED	
11-1-84	EXCAVATION DETAILS ADDED	
	TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72
DATE	REVISION	DATE FILM'D

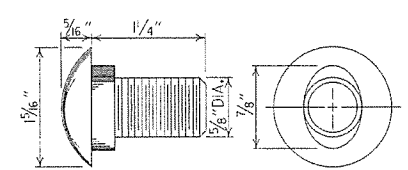
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

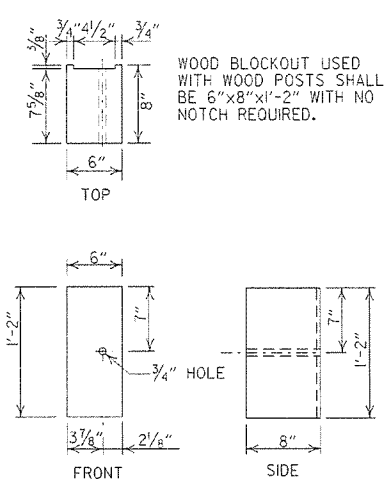
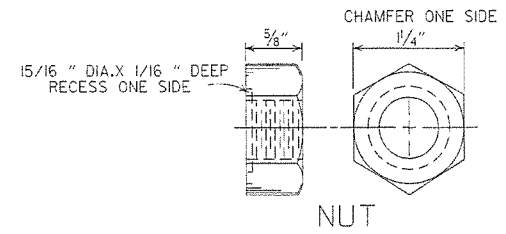
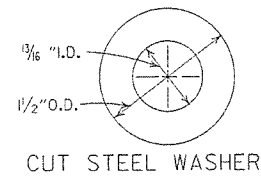
STANDARD DRAWING CDP-1



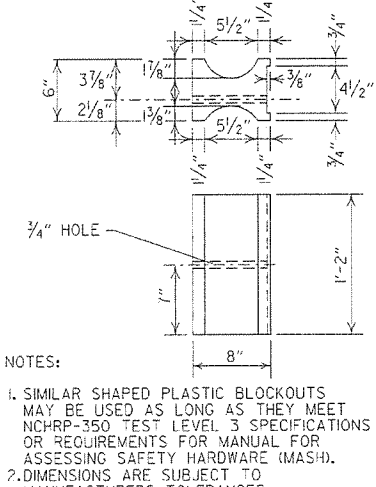
DETAILS OF W-BEAM GUARD RAIL
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



SPLICE BOLT
POST BOLT - SAME EXCEPT LENGTH

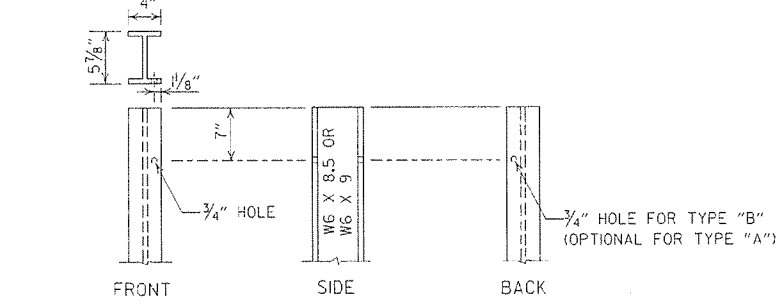


WOOD BLOCKOUT (W-BEAM)

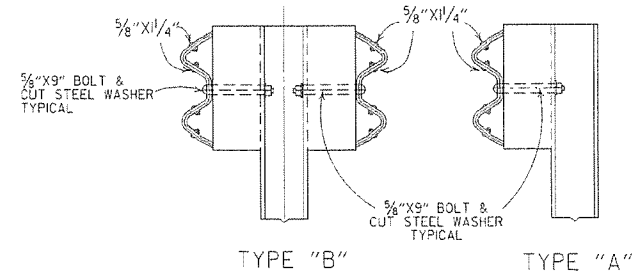


PLASTIC BLOCKOUT (W-BEAM)

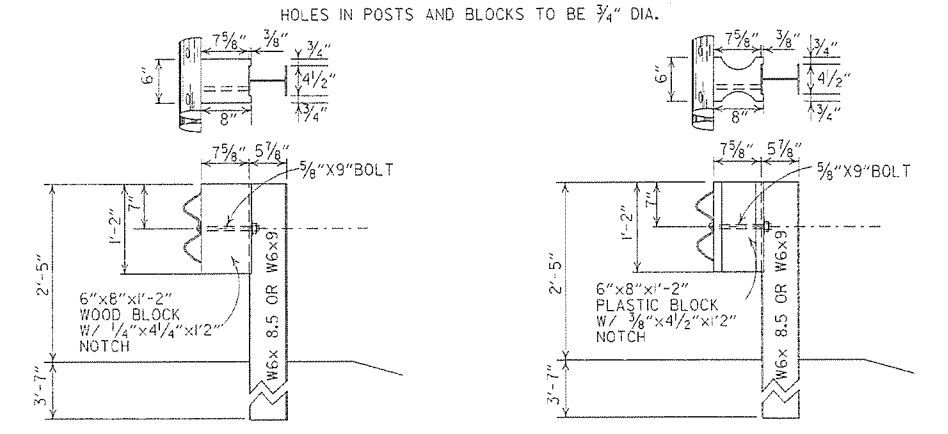
NOTES:
1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET NCHRP-350 TEST LEVEL 3 SPECIFICATIONS OR REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.



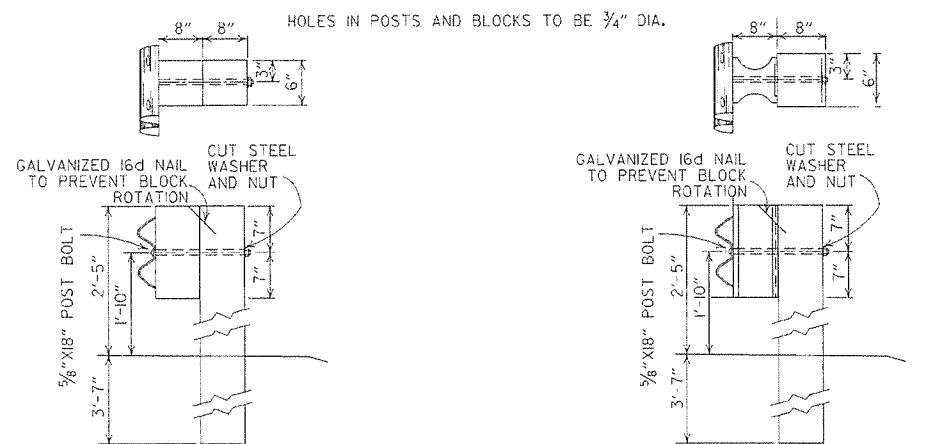
STEEL POST



DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



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)

-GENERAL NOTES-

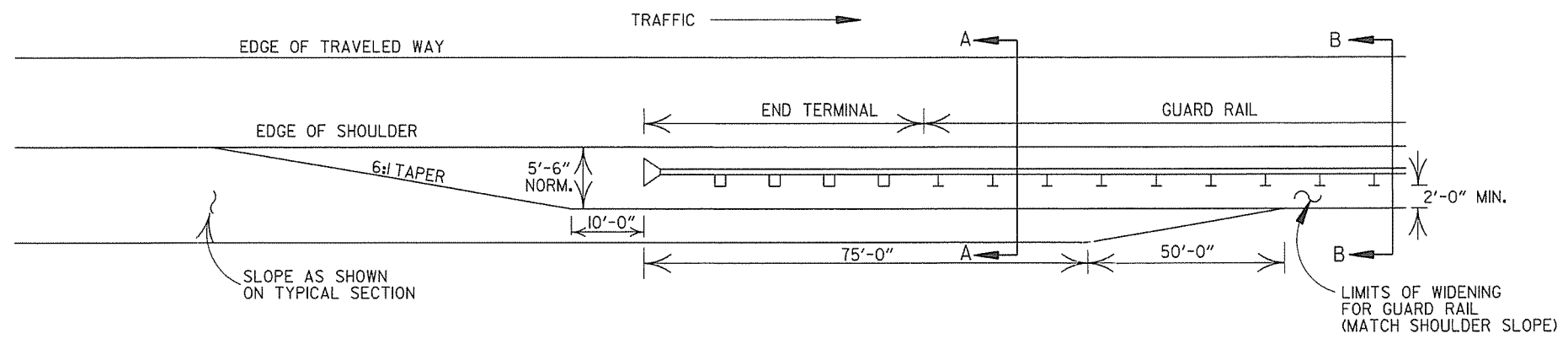
ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
WHERE W-BEAM GUARD RAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.
W-BEAM GUARD RAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED 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 (1400 f) OR NO. 1 1350 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.

7-4-10	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	
1-12-00	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 SOLD 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	8-15-91
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

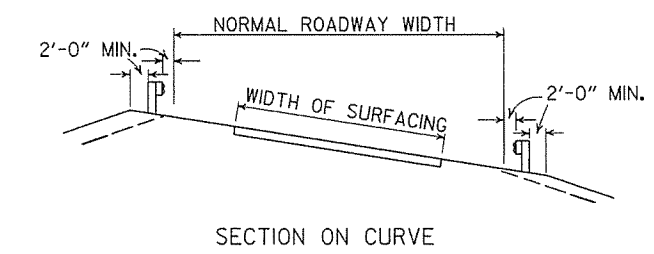
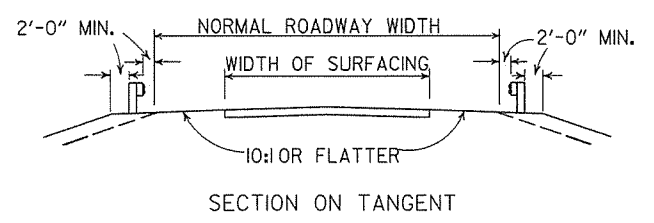
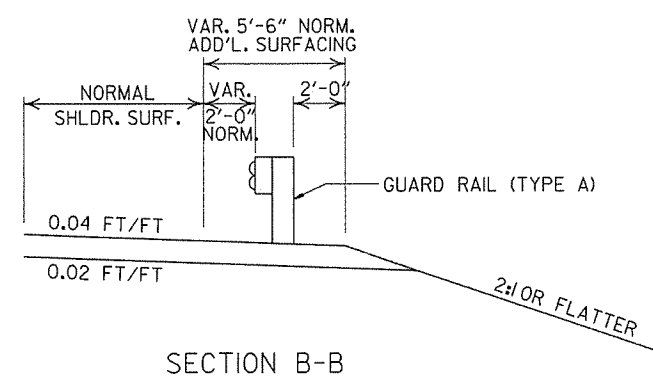
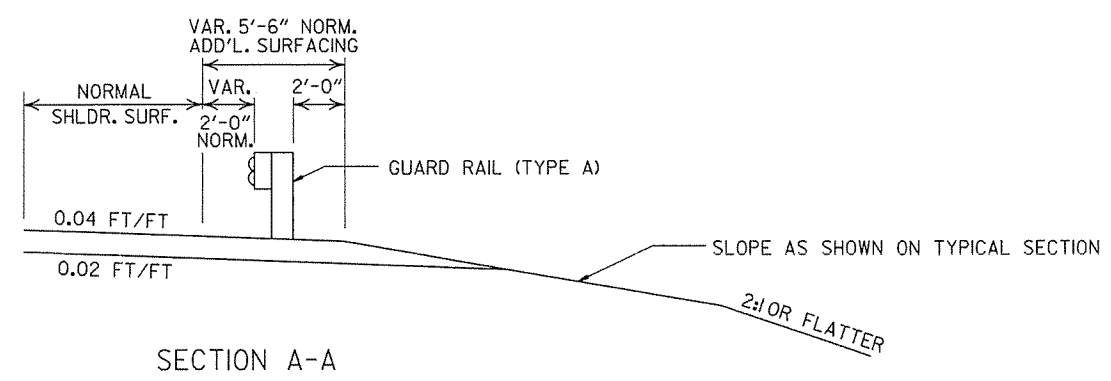
ARKANSAS STATE HIGHWAY COMMISSION

GUARD RAIL DETAILS

STANDARD DRAWING GR-8

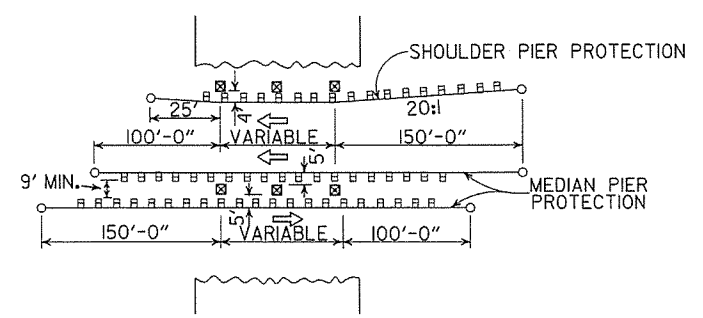


NOTE: NORMAL SECTION TO BE WIDENED APPROX. 5'-6" EACH SIDE TO SUPPORT GUARD RAIL.



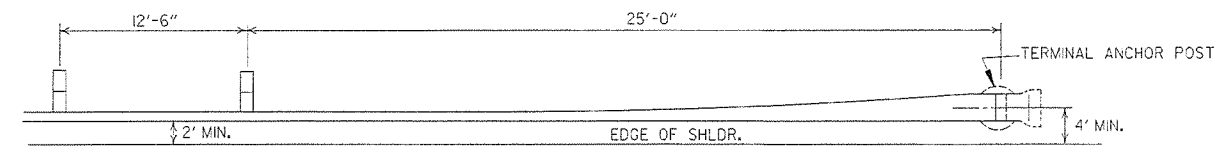
DETAILS OF WIDENING FOR GUARD RAIL

DETAILS SHOWING POSITION OF GUARD RAIL ON HIGHWAY

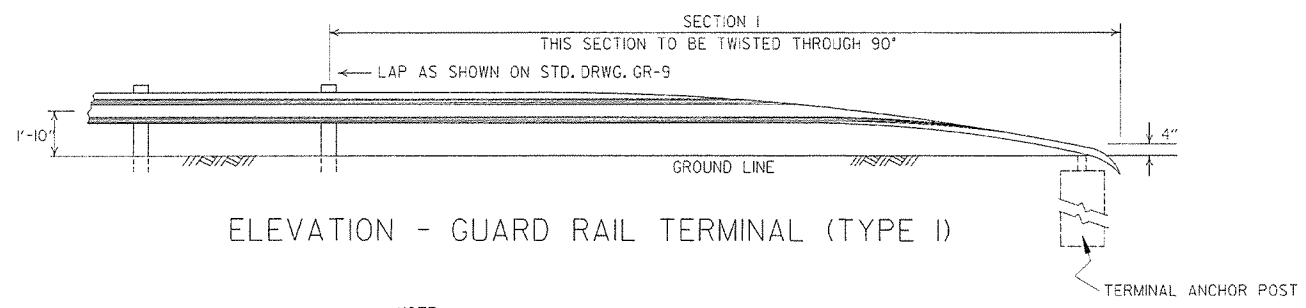


METHOD OF INSTALLATION OF GUARD RAIL AT FIXED OBSTACLE

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

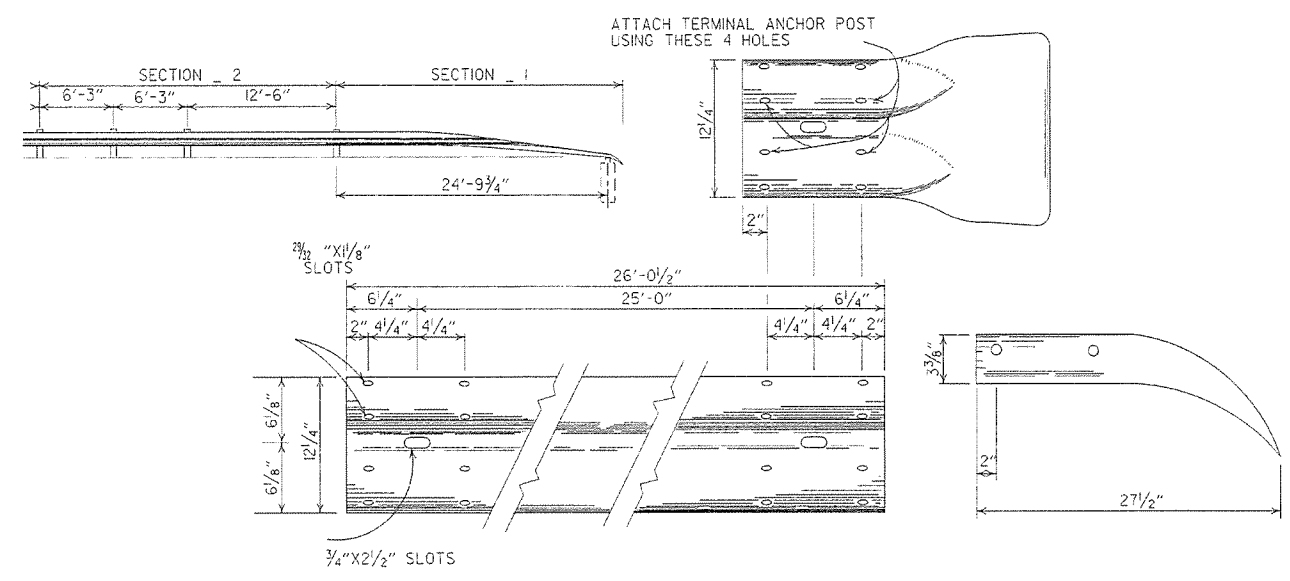


PLAN - GUARD RAIL TERMINAL (TYPE I)



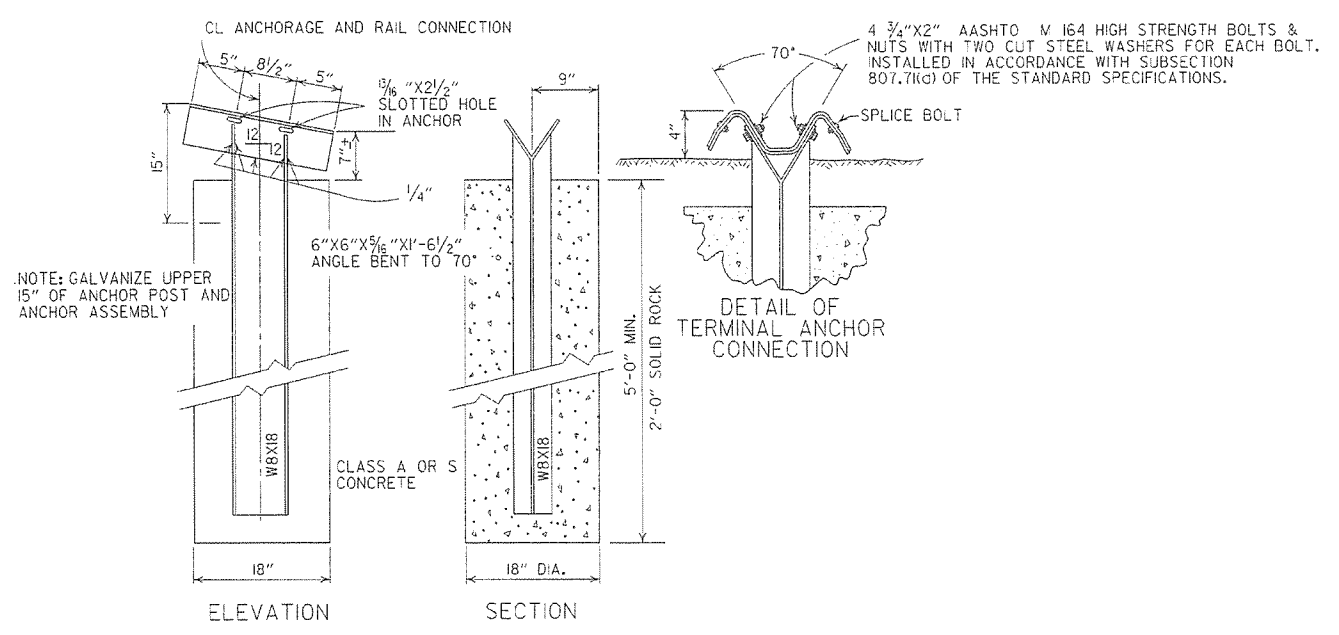
ELEVATION - GUARD RAIL TERMINAL (TYPE I)

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 I

TERMINAL SECTION



DETAIL OF TERMINAL ANCHOR POST (TYPE I)

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 WF 17 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	DIVENSION TERMINAL DETAIL		
11-11-92	ADDED NOTE FOR PAYMENT	11-11-92	
10-1-92	DRAWN & ISSUED	10-1-92	
DATE	REVISION	DATE	FIRM


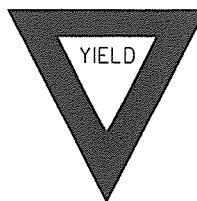



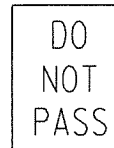



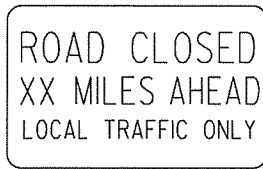
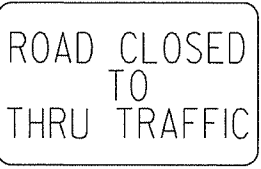

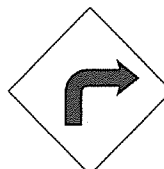
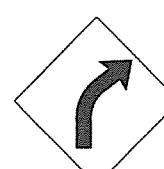
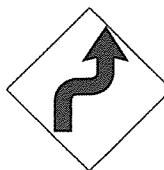
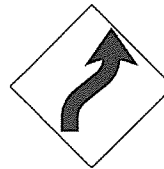
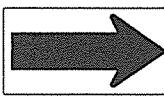
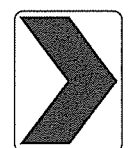
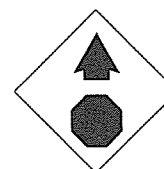
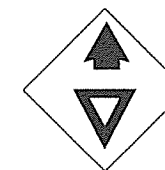
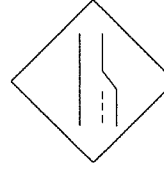

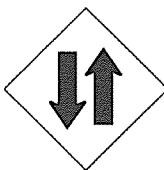

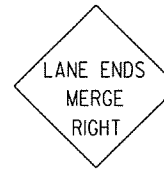


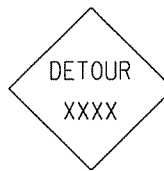


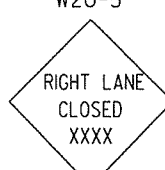


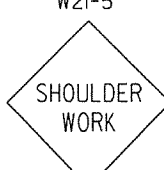
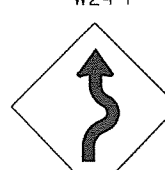
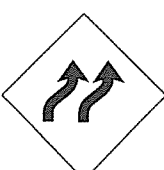


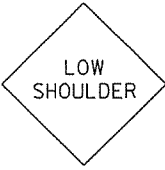
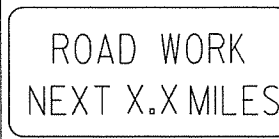
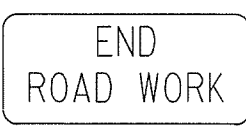
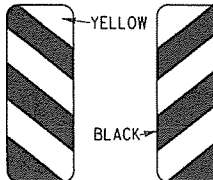
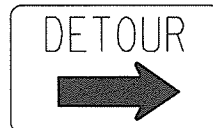

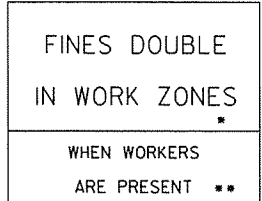
ADVANCE DISTANCES
(XXXX)
500 FT 1/2 MILE
1000 FT 3/4 MILE
1500 FT 1 MILE
AHEAD

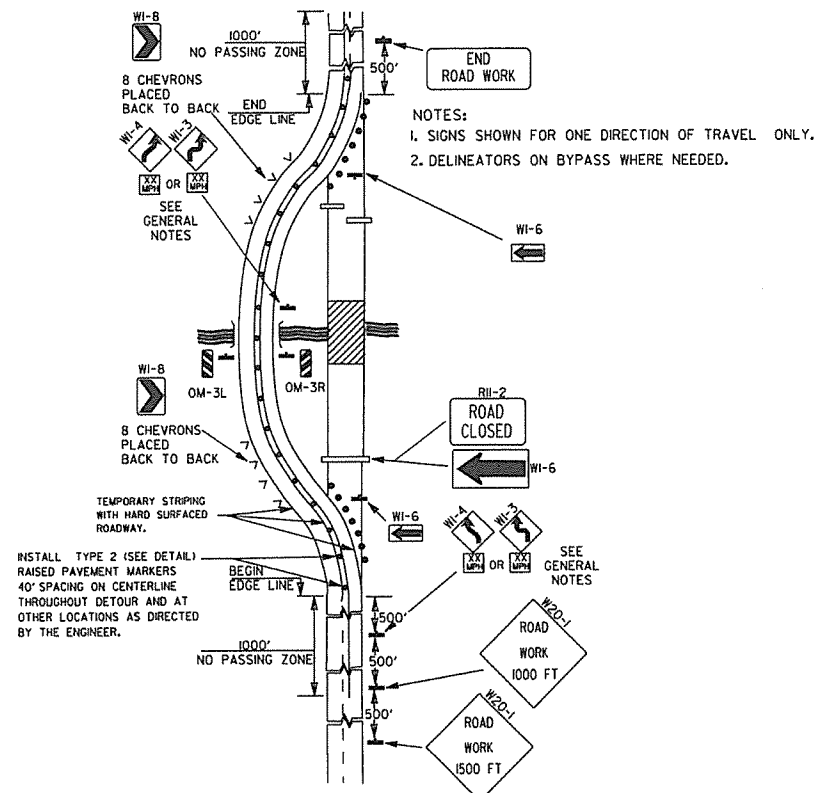
- GENERAL NOTES:
- ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
 - TRAFFIC CONTROL DEVICES SHALL BE SET UP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

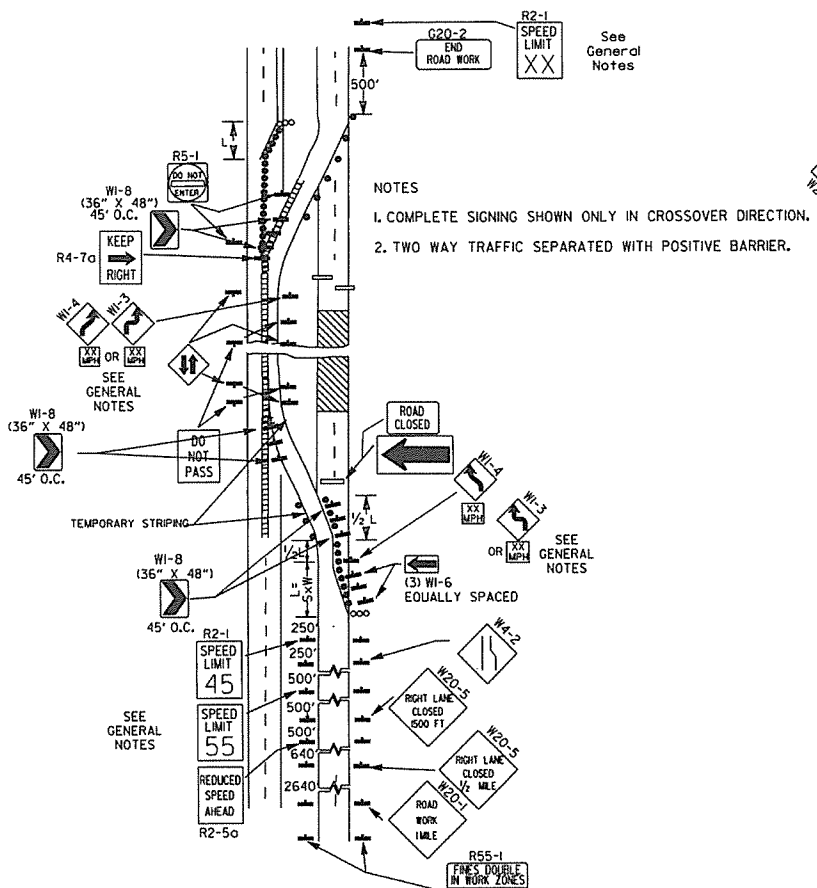
NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9g & 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

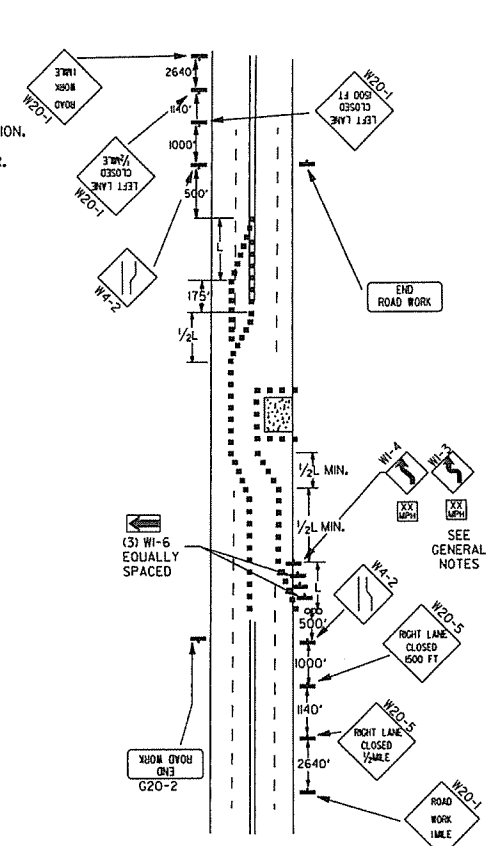
<p>RI-1</p>  <p>STANDARD 30"x30" EXPRESSWAY 36"x36" SPECIAL 48"x48"</p>	<p>RI-2</p>  <p>STD. 36"x36"x36" EXPWY. 48"x48"x48" FWY. 60"x60"x60"</p>	<p>R2-1</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5A</p>  <p>STD. 24"x30" EXPWY. 36"x48" FWY. 48"x60"</p>	<p>R2-5C</p>  <p>STD. 24"x30" EXPWY. 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>W20-3</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>500 FEET W16-2 24" 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>W1-4b</p>  <p>STD. 48"x48"</p>	<p>R56-1</p>  <p>STD. 18"x18"</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>R55-1</p>  <p>36"x60" * USE 6" C LETTERS ** USE 4" D LETTERS</p>				



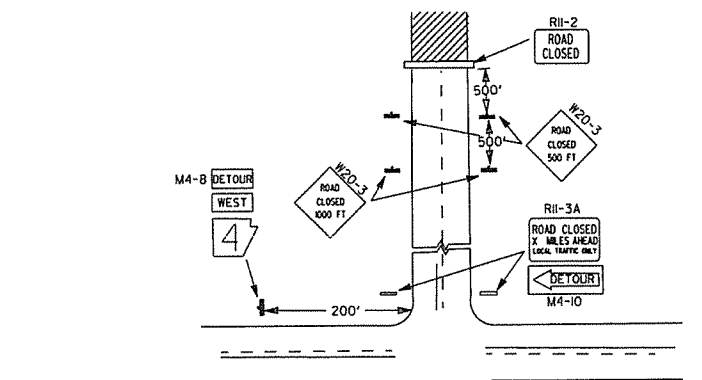
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



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

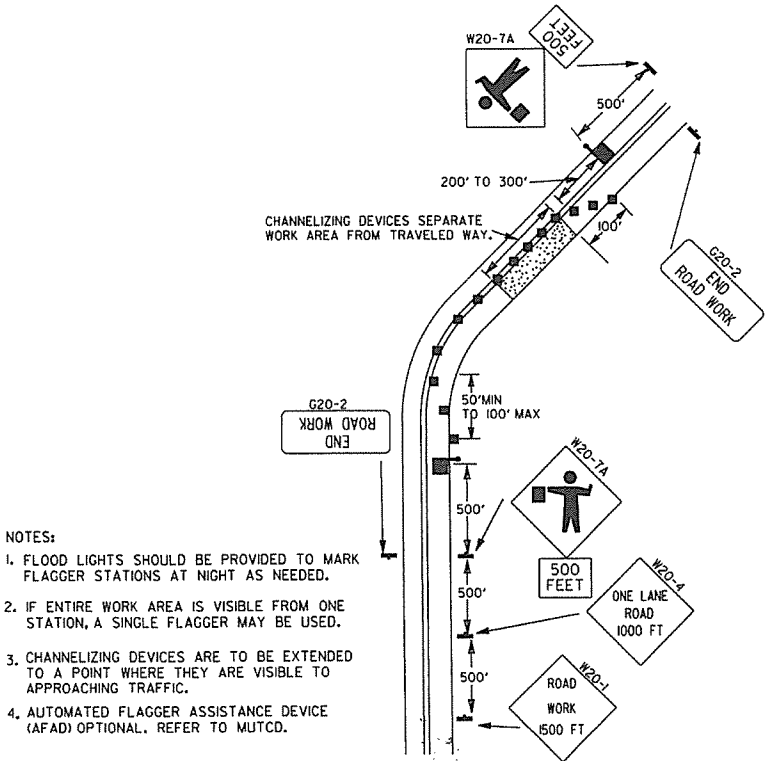


(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



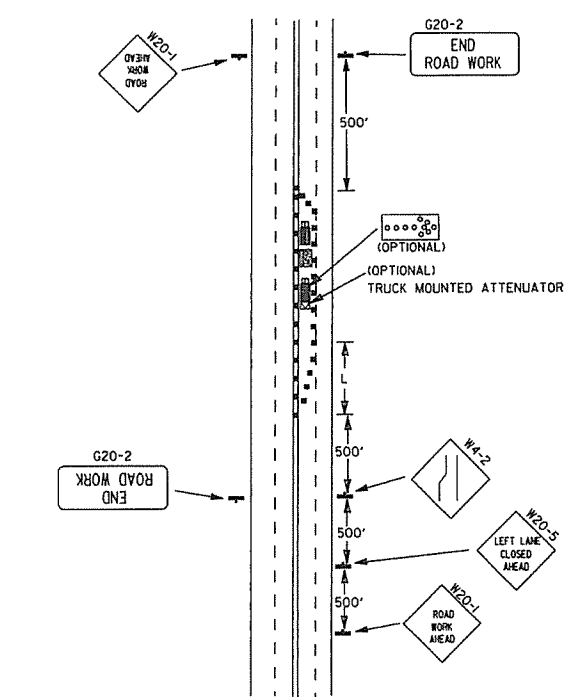
- NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

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



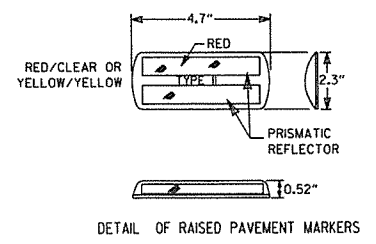
- NOTES:
1. FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
2. IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGGER MAY BE USED.
3. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
4. AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) OPTIONAL. REFER TO MUTCD.

(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.

- KEY:
- FLAGGER
 - POSITIVE BARRIER
 - ARROW PANEL (IF REQUIRED)
 - TYPE III BARRICADE
 - CHANNELIZING DEVICE
 - TRAFFIC DRUM
 - RAISED PAVEMENT MARKER



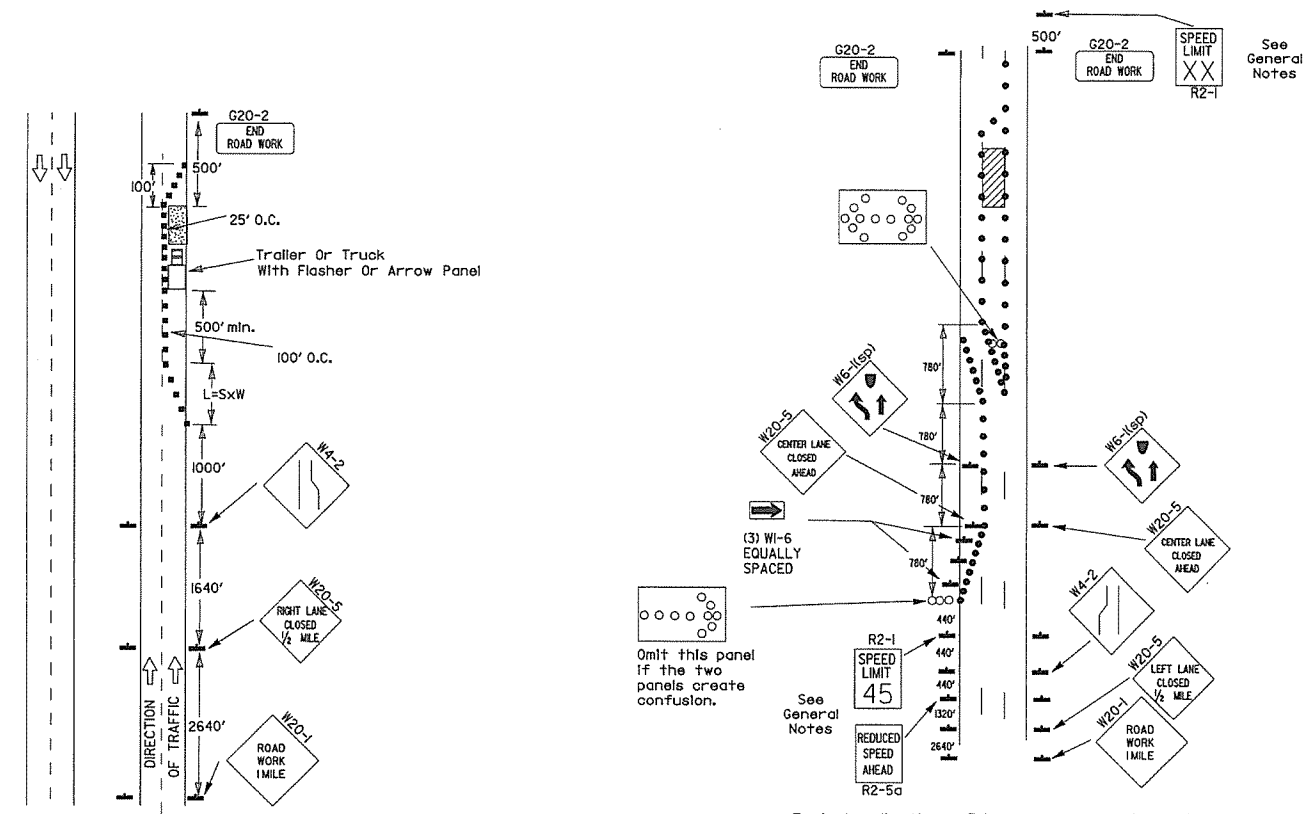
TYPICAL ADVANCE WARNING SIGN PLACEMENT

- TAPER FORMULAE:
L=SW 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.

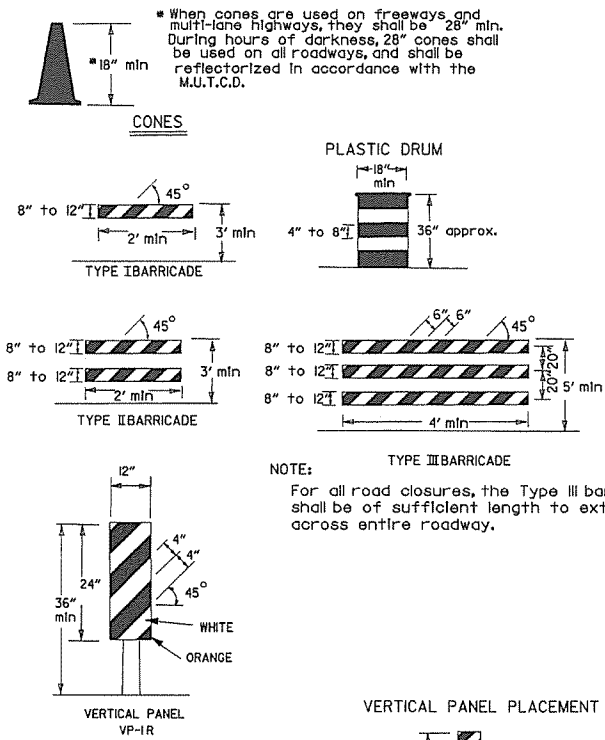
- GENERAL NOTES:
1. ADVISORY SPEED POSTED ON W1-3 OR W1-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE R2-5A 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.
3. 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.
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. 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.

DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-16-04	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	

Channelizing devices



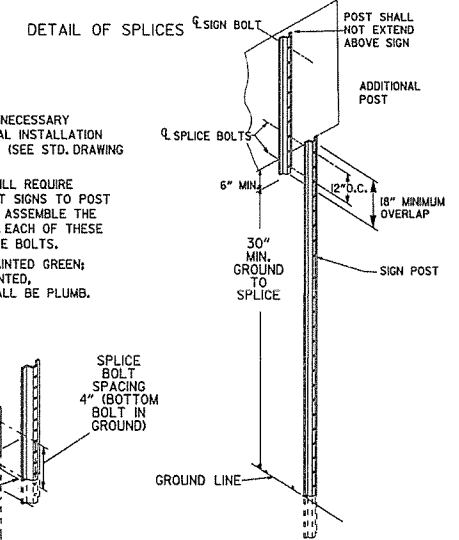
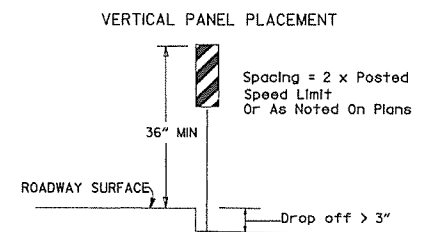
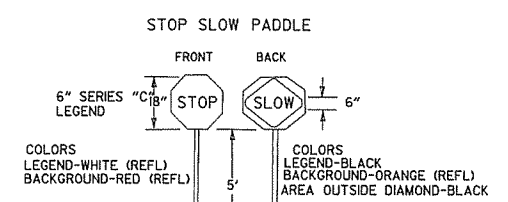
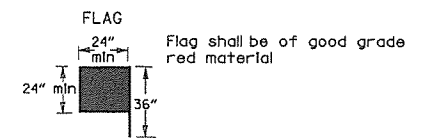
(A) Typical application - daytime maintenance operations of short duration on a 4-lane divided roadway where half of the roadway is closed.



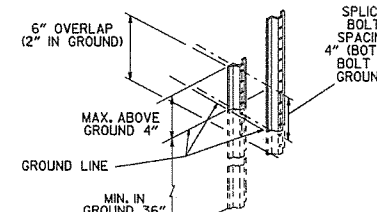
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-II
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-I and vertical panels, drums or concrete barrier
Greater than 3"	Edge of shoulder	*Vertical panels, drums or concrete barrier

When shown on the plans concrete barrier will be used. 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.



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.

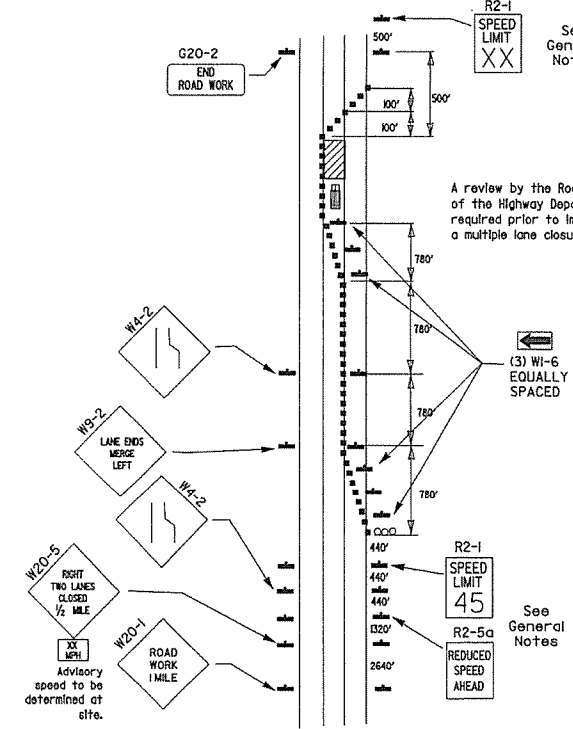


(B) Typical application - 3-lane oneway roadway where center lane is closed.

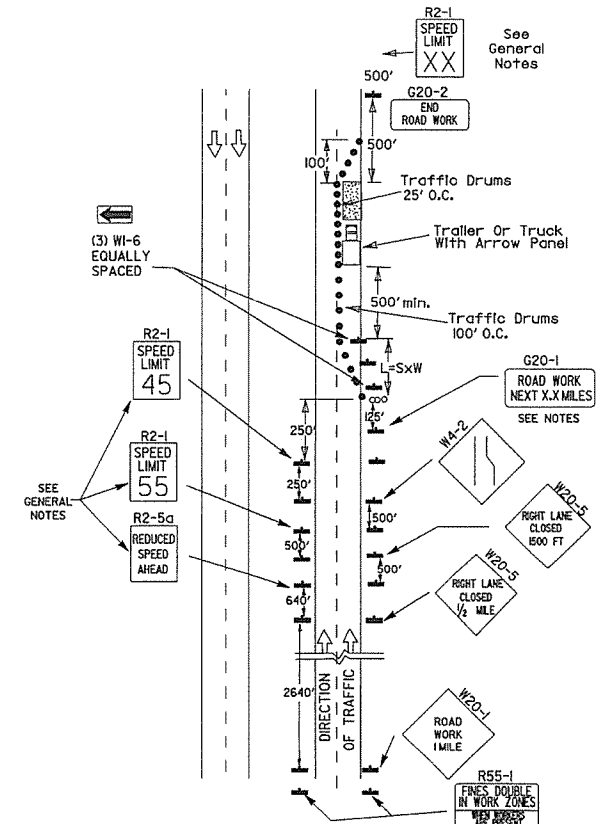
- KEY:
- Arrow Panel (if Required)
 - Channelizing Device
 - Traffic drum

GENERAL NOTES:

- A speed limit reduction may be implemented ONLY when designated in the plan or when recommended by the Roadway Design Division.
- When the existing speed limit is 55mph and the plans require a speed limit of 45mph, the R2-I(55) shall be omitted and the R2-5A shall be installed at that location. Additional R2-I45mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-I(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-I(65) shall be omitted. Additional R2-I55mph speed limit signs shall be installed at a maximum of 1/2 mile intervals. At the end of the work area a R2-I(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.
- 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 MILE) signs are not required in advance of lane closures that begin inside the project limits.
- Flaggers shall use STOP/SLOW paddles for controlling traffic through work zones. Flags may be used only for emergency situations.
- All plastic drums and cones shall meet the requirements of NCHRP-350 or Manual for Assessing Safety Hardware (MASH).
- 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 - closing multiple lanes of a multilane highway.



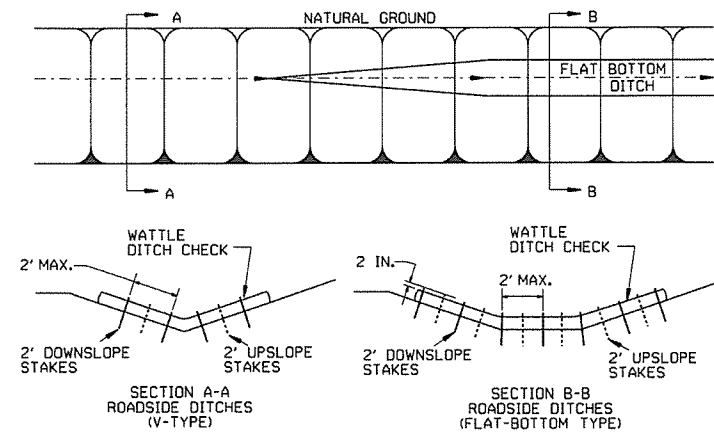
(C) Typical application - construction operations of intermediate to long term duration on a 4-lane divided roadway where half of the roadway is closed.

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	

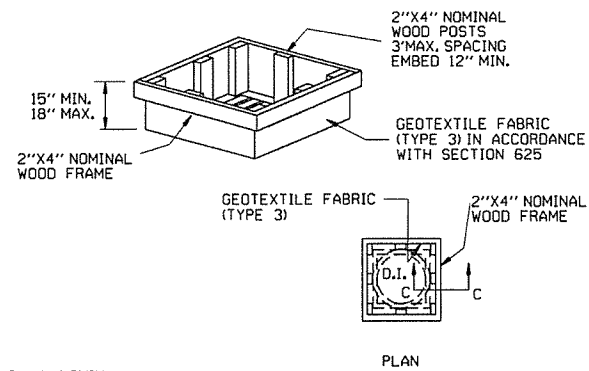
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-3

GENERAL NOTES

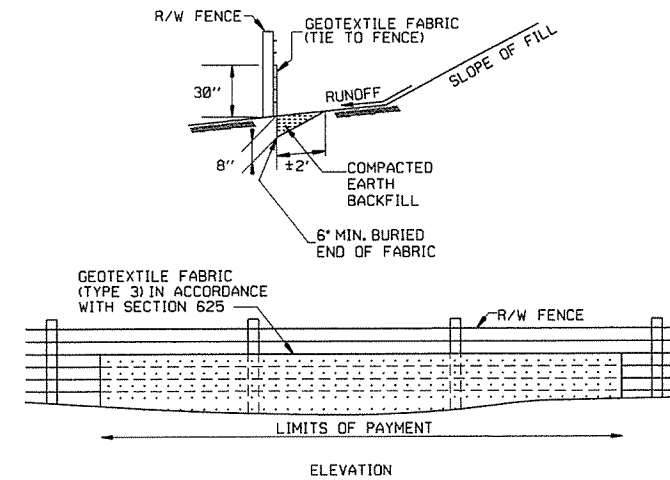
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)

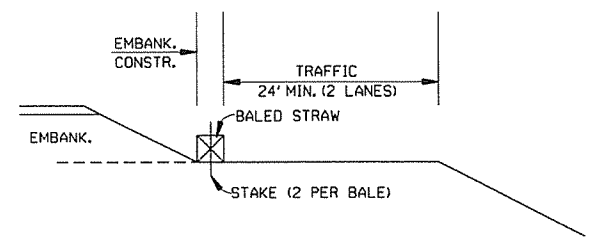


DROP INLET SILT FENCE (E-7)



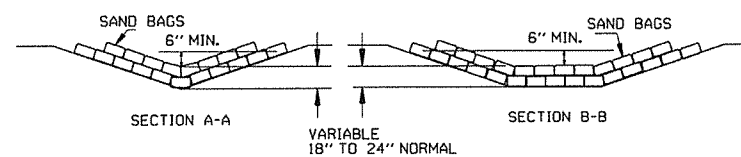
SILT FENCE ON R/W FENCE (E-4)

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.

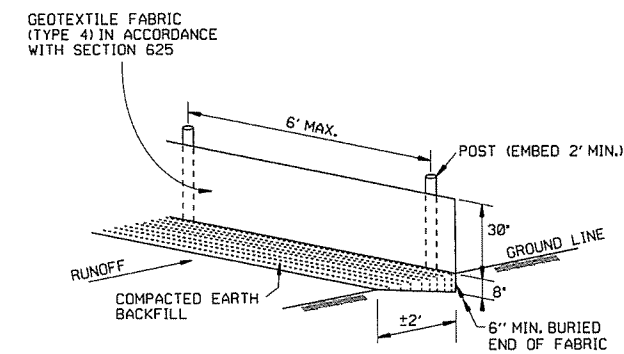


BALED STRAW FILTER BARRIER (E-2)

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

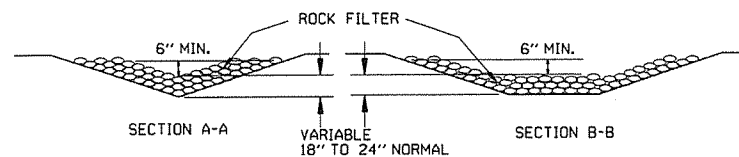
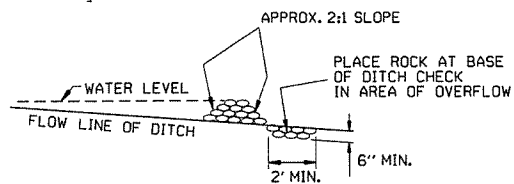


SAND BAG DITCH CHECK (E-5)



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	
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	
DATE	REVISION	FILMED	

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-1