DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	1	22
		I-49 & I-540 CABLE MEDIAN BARRIER IMPVTS.(S)				

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

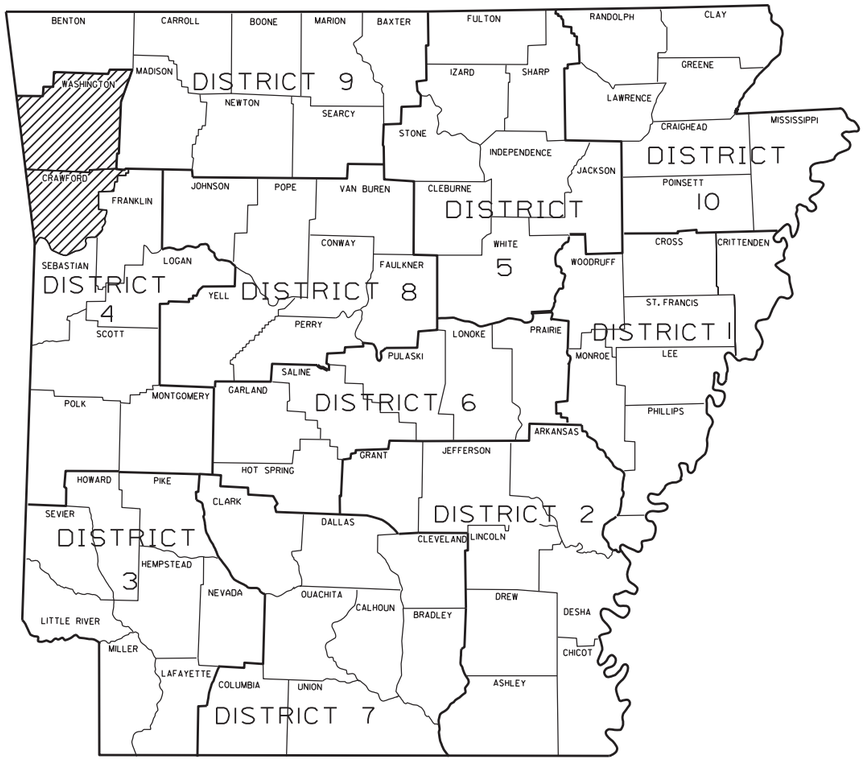
I-49 & I-540 CABLE MEDIAN BARRIER IMPVTS.(S)

CRAWFORD & WASHINGTON COUNTIES

ROUTE I-49 SECTIONS 27 AND 28
ROUTE I-540 SECTION 2

JOB 040895

FED. AID PROJ. HSIP-1772(3)



ARK. HWY. DIST. NO. 4

Digitally signed by Raymond K. Eidson
Date: 2023.03.07 14:42:36-06'00'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON

CERTIFICATE OF AUTHORIZATION
NEEL-SCHAFFER, INC.
NO. 285
ARKANSAS

3/7/2023
titlesheet_default.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	2	22
		INDEX OF SHEETS, STANDARD DRAWINGS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES				

INDEX OF SHEETS

GENERAL NOTES

1. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.

2. 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.

3. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.

4. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.

5. ASPHALT DEBRIS RESULTING FROM THE PREPARATORY WORK SHALL BE REMOVED FROM THE PROJECT. THIS MATERIAL SHALL NOT BE BURIED WITHIN THE RIGHT OW WAY

6. AGGREGATE BASE COURSE OUTSIDE THE EXISTING SHOULDERS SHALL BE UNIFORMLY COMPACTED, STABLE, AND FREE OF SEGREGATION. THE DENSITY REQUIREMENTS OF SECTION 303 ARE HEREBY WAIVED.

7. PREPARATORY WORK, SUCH AS CLIPPING THE GRASS AND DEBRIS FROM THE EDGE OF THE EXISTING ROADWAY, WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED A PART OF THE OTHER ITEMS OF WORK.

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
CDP-1	CONCRETE DITCH	12-08-16
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY	05-20-21
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY	08-12-21
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-2	TEMPORARY EROSION CONTROL DEVICES	06-02-94
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94
TEC-4	TEMPORARY EROSION CONTROL DEVICES	07-26-12

Digitally signed by Raymond K. Eidson
Date: 2023.03.08 14:59:11-06'00'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON

GOVERNING SPECIFICATIONS

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

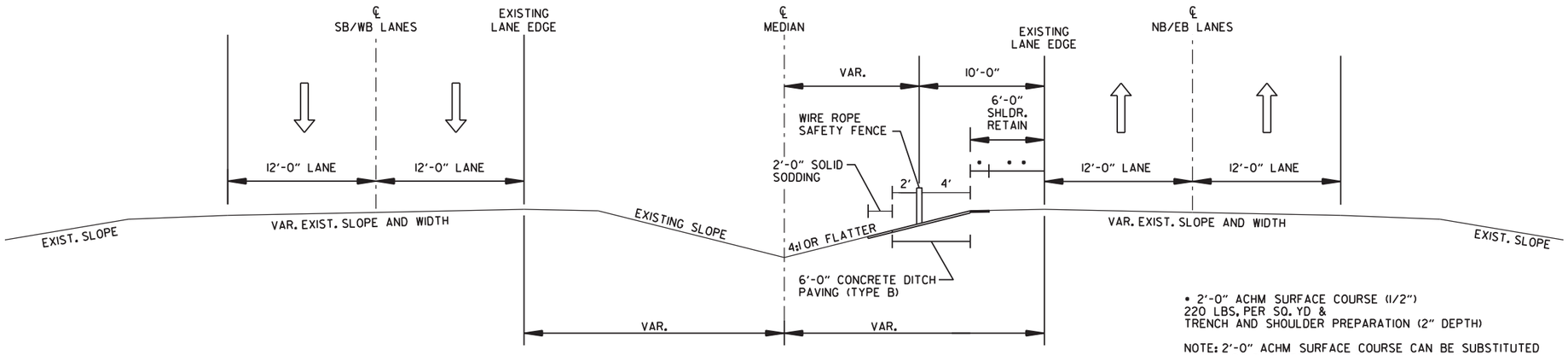
NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
105-4	MAINTENANCE DURING CONSTRUCTION
107-2	RESTRAINING CONDITIONS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
110-1	PROTECTION OF WATER QUALITY AND WETLANDS
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
404-3	DESIGN OF ASPHALT MIXTURES
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
410-4	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
603-1	LANE CLOSURE NOTIFICATION
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
605-1	CONCRETE DITCH PAVING
620-1	MULCH COVER
621-1	FILTER SOCKS
802-4	CEMENT
JOB 040895	ASSESSMENT OF WORKING DAYS – MAINTENANCE OF TRAFFIC
JOB 040895	BIDDING REQUIREMENTS AND CONDITIONS
JOB 040895	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 040895	BUY AMERICA-CONSTRUCTION MATERIALS
JOB 040895	CARGO PREFERENCE ACT REQUIREMENTS
JOB 040895	CONCRETE DITCH PAVING
JOB 040895	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB 040895	DESIGN OF ASPHALT MIXTURES-AGGREGATES
JOB 040895	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 040895	ESTABLISHING CONTRACT TIME – WORKING DAY CONTRACT
JOB 040895	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 040895	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB 040895	MAINTENANCE OF TRAFFIC
JOB 040895	MANDATORY ELECTRONIC CONTRACT
JOB 040895	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 040895	PARTNERING REQUIREMENTS
JOB 040895	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB 040895	PRICE ADJUSTMENT FOR FUEL
JOB 040895	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 040895	SEQUENCE OF CONSTRUCTION
JOB 040895	STORM WATER POLLUTION PREVENTION PLAN
JOB 040895	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 040895	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 040895	UTILITY ADJUSTMENTS
JOB 040895	VALUE ENGINEERING
JOB 040895	WARM MIX ASPHALT
JOB 040895	WRE ROPE SAFETY FENCE (WRSF) SPECIFICATIONS MASH
JOB 040895	WRE ROPE SAFETY FENCE MAINTENANCE MATERIALS
JOB 040895	WRSF TRAINING WORKSHOP

INDEX OF SHEETS, STANDARD DRAWINGS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES

3/8/2023
GEN NOTES.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	3	22
		TYPICAL SECTIONS OF IMPROVEMENT				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

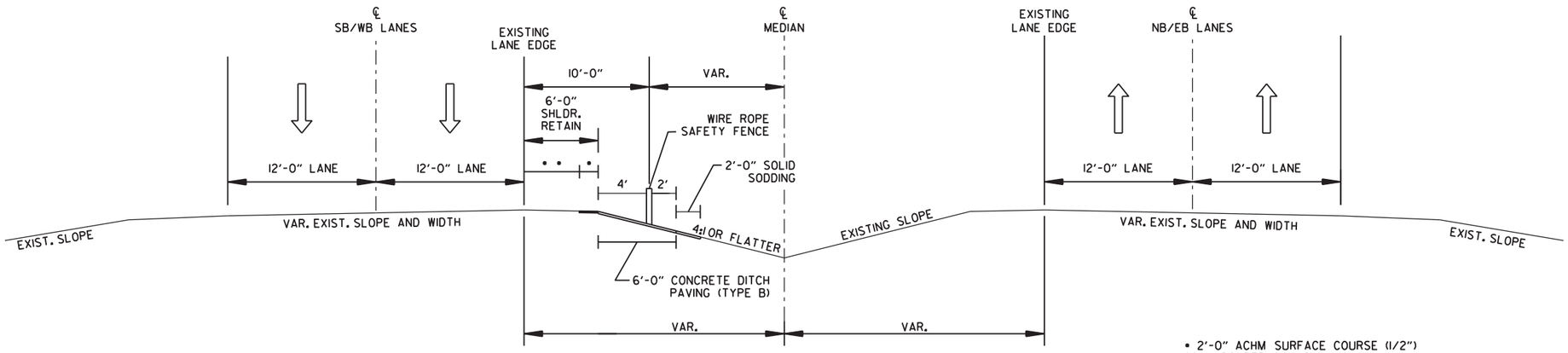


TYPICAL SECTION OF IMPROVEMENT
FOR WIRE ROPE SAFETY FENCE RIGHT OF CENTERLINE
SITES 1-15

• 2'-0" ACHM SURFACE COURSE (1/2")
220 LBS. PER SQ. YD &
TRENCH AND SHOULDER PREPARATION (2" DEPTH)

NOTE: 2'-0" ACHM SURFACE COURSE CAN BE SUBSTITUTED FOR 2'-0" CONCRETE (4" U.T.) AT NO ADDITIONAL COST TO THE DEPARTMENT. IF CONCRETE IS USED, CONCRETE SHOULD BE POURED MONOLITHICALLY AND SIMULTANEOUSLY WITH THE CONCRETE DITCH PAVING FOR THE WRSF, WITH ALL TRANSVERSING JOINTS MATCHING THAT OF THE WRSF DITCH PAVING.

•• 4'-0" EXISTING PAVED SHOULDER TO REMAIN



TYPICAL SECTION OF IMPROVEMENT
FOR WIRE ROPE SAFETY FENCE LEFT OF CENTERLINE
SITES 1-15

• 2'-0" ACHM SURFACE COURSE (1/2")
220 LBS. PER SQ. YD &
TRENCH AND SHOULDER PREPARATION (2" DEPTH)

NOTE: 2'-0" ACHM SURFACE COURSE CAN BE SUBSTITUTED FOR 2'-0" CONCRETE (4" U.T.) AT NO ADDITIONAL COST TO THE DEPARTMENT. IF CONCRETE IS USED, CONCRETE SHOULD BE POURED MONOLITHICALLY AND SIMULTANEOUSLY WITH THE CONCRETE DITCH PAVING FOR THE WRSF, WITH ALL TRANSVERSING JOINTS MATCHING THAT OF THE WRSF DITCH PAVING.

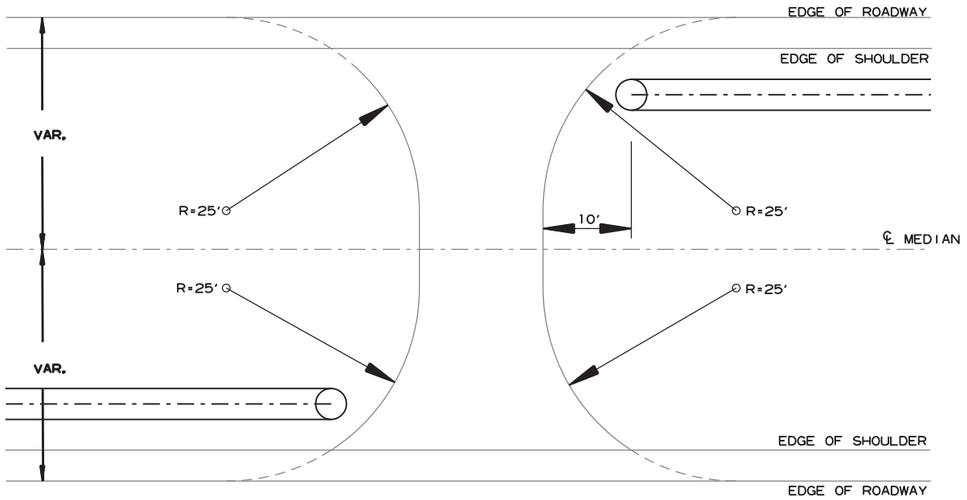
•• 4'-0" EXISTING PAVED SHOULDER TO REMAIN

3/7/2023
TYP SEC.dgn

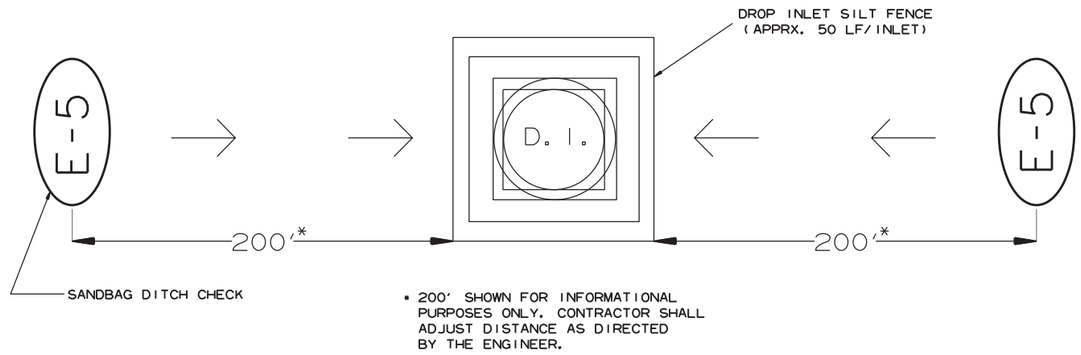
TYPICAL SECTIONS OF IMPROVEMENT

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	4	22
		SPECIAL DETAILS				

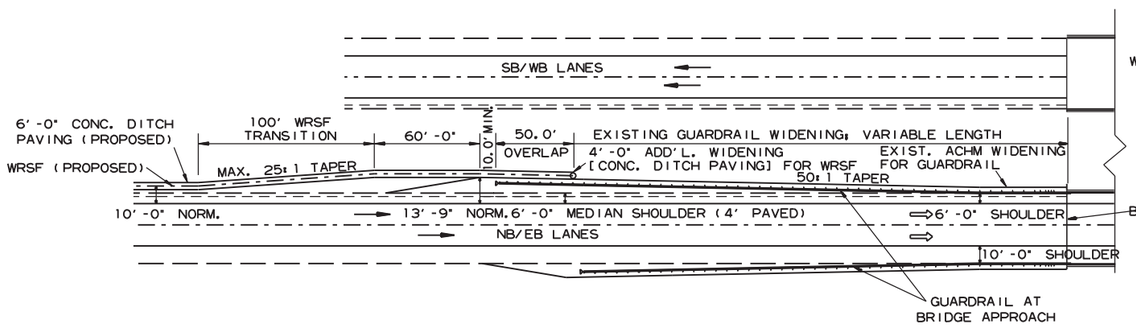
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023



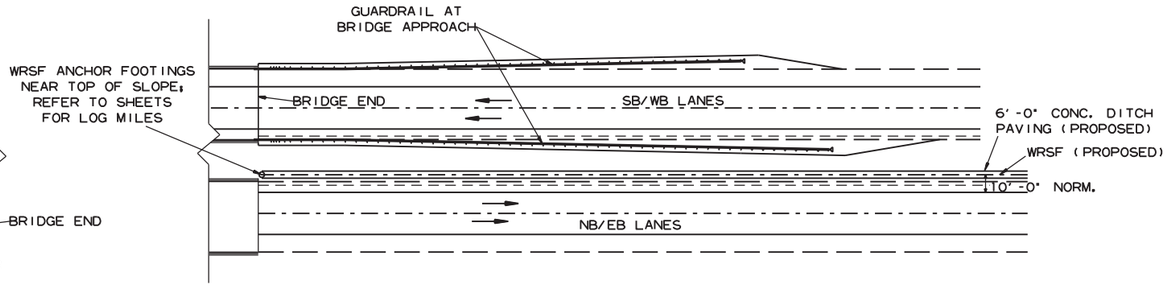
DETAIL OF EXISTING MEDIAN CROSSING



TEMPORARY EROSION CONTROL DETAIL AT MEDIAN INLET



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

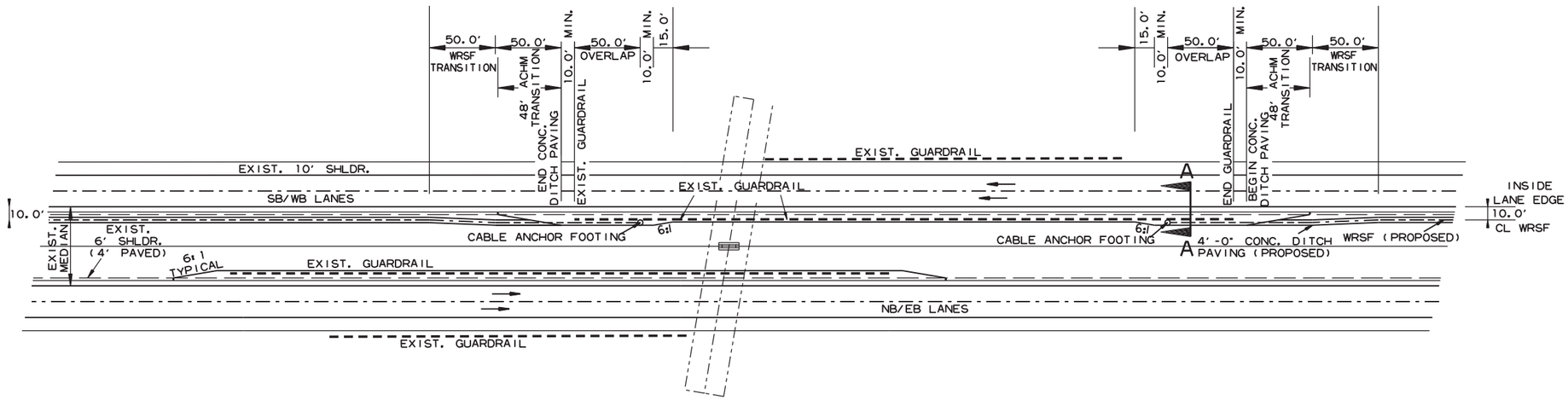
REFER TO PLANS FOR RELATIVE PLACEMENT OF GUARDRAIL AND WIRE ROPE SAFETY FENCE AT EACH BRIDGE END

3/7/2023
SpecialDetails.dgn

SPECIAL DETAILS

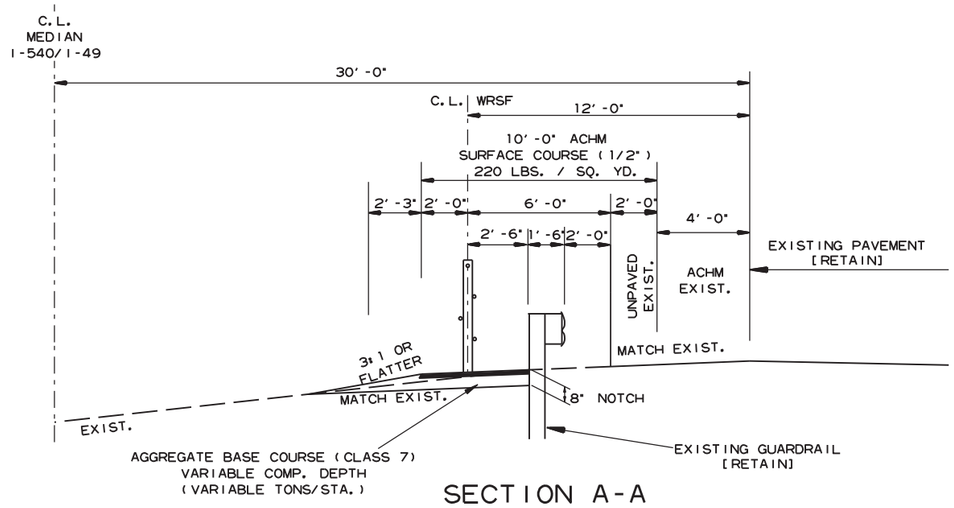
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	5	22
		SPECIAL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023



DETAIL AT OVERPASSES

NOTE: REFER TO QUANTITY SHEETS
FOR PLACEMENT OF WIRE ROPE SAFETY FENCE.



SECTION A-A

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

3/7/2023
SpecialDetails.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	6	22
		SPECIAL DETAILS				

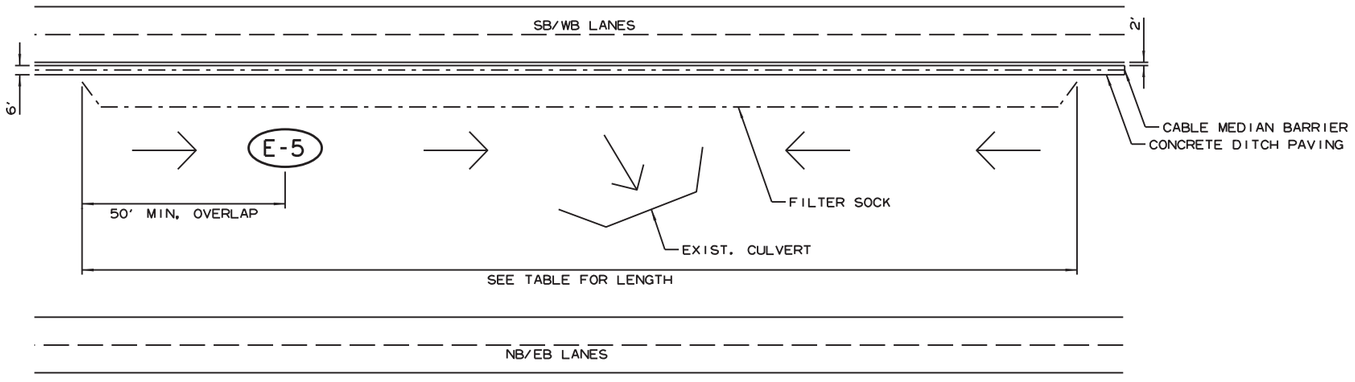
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

FILTER SOCK LOCATIONS

BEGIN LM	END LM	SITE	COUNTY	DESCRIPTION	LENGTH
11.701	11.749	1	CRAWFORD	EXIST. CULVERT	250'
11.757	11.805	1	CRAWFORD	EXIST. CULVERT	250'
11.820	11.868	1	CRAWFORD	EXIST. CULVERT	250'
12.421	12.468	1	CRAWFORD	BRIDGE END	250'
12.487	12.534	1	CRAWFORD	BRIDGE END	250'
12.530	12.578	1	CRAWFORD	EXIST. CULVERT	250'
12.664	12.712	1	CRAWFORD	EXIST. CULVERT	250'
12.710	12.758	1	CRAWFORD	EXIST. CULVERT	250'
12.758	12.806	1	CRAWFORD	EXIST. CULVERT	250'
12.830	12.878	1	CRAWFORD	EXIST. CULVERT	250'
12.933	12.980	1	CRAWFORD	BRIDGE END	250'
12.999	13.046	1	CRAWFORD	BRIDGE END	250'
13.030	13.078	1	CRAWFORD	EXIST. CULVERT	250'
13.078	13.125	1	CRAWFORD	EXIST. CULVERT	250'
13.125	13.173	1	CRAWFORD	EXIST. CULVERT	250'
13.198	13.245	1	CRAWFORD	BRIDGE END	250'
13.359	13.406	1	CRAWFORD	BRIDGE END	250'
13.611	13.659	1	CRAWFORD	EXIST. CULVERT	250'
13.686	13.734	1	CRAWFORD	EXIST. CULVERT	250'
13.796	13.844	1	CRAWFORD	EXIST. CULVERT	250'
13.887	13.935	1	CRAWFORD	EXIST. CULVERT	250'
14.015	14.063	1	CRAWFORD	EXIST. CULVERT	250'
14.151	14.199	1	CRAWFORD	EXIST. CULVERT	250'
14.260	14.307	1	CRAWFORD	BRIDGE END	250'
14.320	14.368	1	CRAWFORD	EXIST. CULVERT	250'
14.344	14.391	1	CRAWFORD	BRIDGE END	250'
14.430	14.477	1	CRAWFORD	BRIDGE END	250'
14.498	14.546	1	CRAWFORD	EXIST. CULVERT	250'
14.496	14.543	1	CRAWFORD	BRIDGE END	250'
20.515	20.530	2	CRAWFORD	CONCRETE DITCH PAVING	80'
20.773	20.862	2	CRAWFORD	CONCRETE DITCH PAVING	470'
21.175	21.222	2	CRAWFORD	BRIDGE END	250'
21.260	21.307	2	CRAWFORD	BRIDGE END	250'
21.279	21.316	2	CRAWFORD	CONCRETE DITCH PAVING	195'
21.487	21.657	2	CRAWFORD	CONCRETE DITCH PAVING	900'

FILTER SOCK LOCATIONS (CONT.)

BEGIN LM	END LM	SITE	COUNTY	DESCRIPTION	LENGTH
21.771	21.809	2	CRAWFORD	CONCRETE DITCH PAVING	200'
22.055	22.112	2	CRAWFORD	CONCRETE DITCH PAVING	300'
22.396	22.415	2	CRAWFORD	CONCRETE DITCH PAVING	100'
22.566	22.585	2	CRAWFORD	CONCRETE DITCH PAVING	100'
22.794	22.888	2	CRAWFORD	CONCRETE DITCH PAVING	495'
23.002	23.021	2	CRAWFORD	CONCRETE DITCH PAVING	100'
23.305	23.419	2	CRAWFORD	CONCRETE DITCH PAVING	600'
24.012	24.088	2	CRAWFORD	CONCRETE DITCH PAVING	400'
24.220	24.258	2	CRAWFORD	CONCRETE DITCH PAVING	200'
24.552	24.637	2	CRAWFORD	CONCRETE DITCH PAVING	450'
24.732	24.751	2	CRAWFORD	CONCRETE DITCH PAVING	100'
24.997	25.016	2	CRAWFORD	CONCRETE DITCH PAVING	100'
25.262	25.281	2	CRAWFORD	CONCRETE DITCH PAVING	100'
25.395	25.414	2	CRAWFORD	CONCRETE DITCH PAVING	100'
30.502	30.549	4	CRAWFORD	BRIDGE END	250'
30.530	30.567	4	CRAWFORD	CONCRETE DITCH PAVING	195'
30.795	30.842	4	CRAWFORD	BRIDGE END	250'
33.286	33.333	5	CRAWFORD	BRIDGE END	250'
33.409	33.456	5	CRAWFORD	BRIDGE END	250'



FILTER SOCK DETAIL
N. T. S.

SAND BAG DITCH CHECK E-5

FILTER SOCK
SPECIAL DETAILS

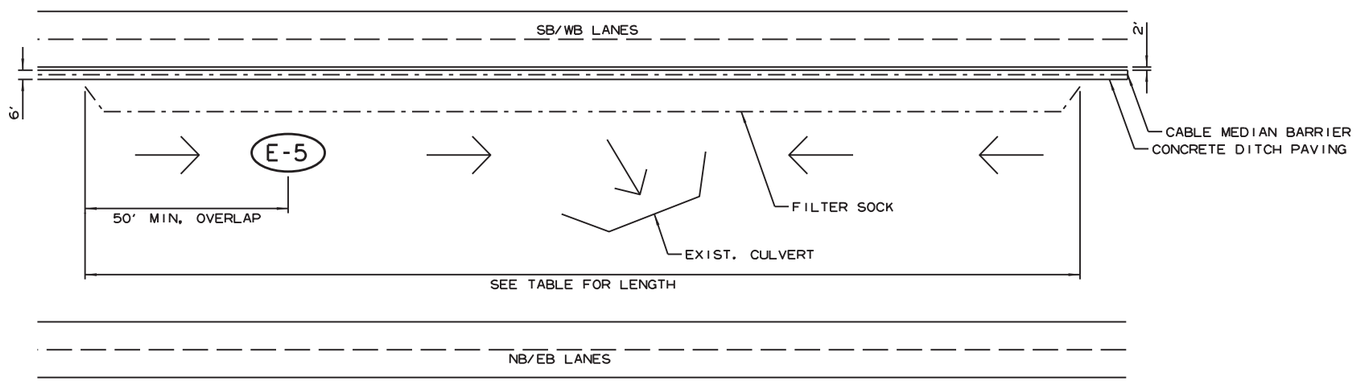
3/7/2023
Special Details.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	7	22
		SPECIAL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

FILTER SOCK LOCATIONS (CONT.)

BEGIN LM	END LM	SITE	COUNTY	DESCRIPTION	LENGTH
33.608	33.655	5	CRAWFORD	BRIDGE END	250'
33.843	33.890	5	CRAWFORD	BRIDGE END	250'
35.232	35.403	6	CRAWFORD	CONCRETE DITCH PAVING	905'
35.636	35.683	6	CRAWFORD	BRIDGE END	250'
35.967	36.014	6	CRAWFORD	BRIDGE END	250'
37.227	37.274	6	CRAWFORD	BRIDGE END	250'
37.794	38.476	9	CRAWFORD	CONCRETE DITCH PAVING	3600'
39.618	39.656	10	CRAWFORD	CONCRETE DITCH PAVING	200'
40.123	40.217	10	CRAWFORD	CONCRETE DITCH PAVING	495'
40.217	40.312	11	WASHINGTON	CONCRETE DITCH PAVING	500'
46.396	46.491	12	WASHINGTON	CONCRETE DITCH PAVING	500'
46.604	46.661	12	WASHINGTON	CONCRETE DITCH PAVING	300'
46.637	46.685	12	WASHINGTON	EXIST. CULVERT	250'
46.826	46.874	12	WASHINGTON	EXIST. CULVERT	250'
46.831	46.907	12	WASHINGTON	CONCRETE DITCH PAVING	400'
47.381	47.428	13	WASHINGTON	BRIDGE END	250'
47.599	47.646	13	WASHINGTON	BRIDGE END	250'
48.290	48.366	14	WASHINGTON	CONCRETE DITCH PAVING	400'
48.422	48.536	14	WASHINGTON	CONCRETE DITCH PAVING	600'
48.547	48.706	14	WASHINGTON	CONCRETE DITCH PAVING	840'
48.736	48.896	14	WASHINGTON	CONCRETE DITCH PAVING	845'
48.849	48.896	14	WASHINGTON	BRIDGE END	250'
49.047	49.094	14	WASHINGTON	BRIDGE END	250'
49.418	49.664	14	WASHINGTON	CONCRETE DITCH PAVING	1300'
49.702	49.834	14	WASHINGTON	CONCRETE DITCH PAVING	695'
52.672	52.766	15	WASHINGTON	CONCRETE DITCH PAVING	495'
52.842	53.031	15	WASHINGTON	CONCRETE DITCH PAVING	1000'
53.460	53.820	15	WASHINGTON	CONCRETE DITCH PAVING	1900'
53.773	53.820	15	WASHINGTON	BRIDGE END	250'
53.877	53.924	15	WASHINGTON	BRIDGE END	250'
54.464	55.411	15	WASHINGTON	CONCRETE DITCH PAVING	5000'
55.676	55.808	15	WASHINGTON	CONCRETE DITCH PAVING	695'
55.846	55.960	15	WASHINGTON	CONCRETE DITCH PAVING	600'
56.206	57.040	15	WASHINGTON	CONCRETE DITCH PAVING	4405'
58.319	58.830	15	WASHINGTON	CONCRETE DITCH PAVING	2700'
59.228	60.042	15	WASHINGTON	CONCRETE DITCH PAVING	4300'



FILTER SOCK DETAIL
N. T. S.

SAND BAG DITCH CHECK E-5

FILTER SOCK
SPECIAL DETAILS

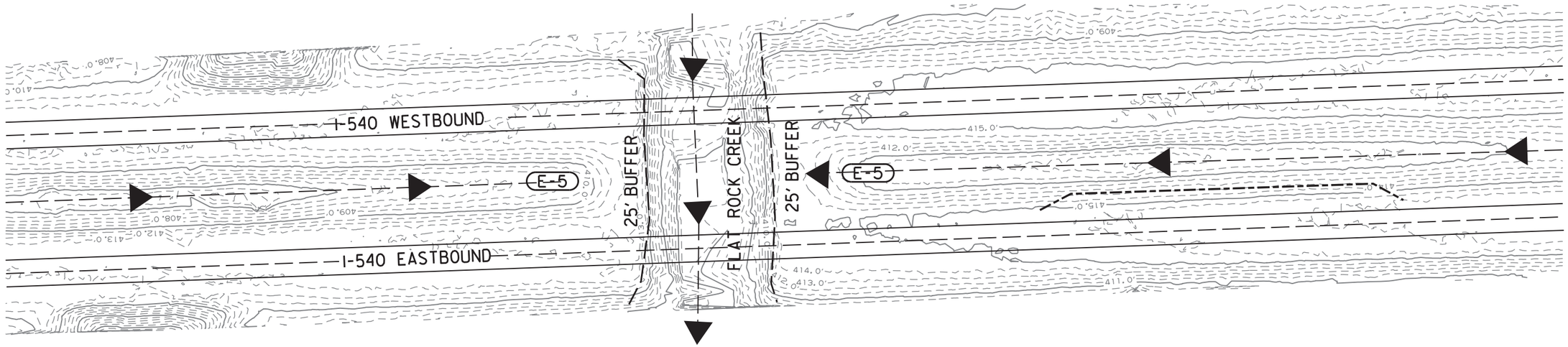
3/7/2023
Special Details.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	8	22
		SPECIAL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

N

0 25 50 75 100
HORIZ. SCALE IN FEET



FILTER SOCK ----------

SAND BAG DITCH CHECKS (E-5)

SITE I- CRAWFORD COUNTY
SPECIAL DETAILS

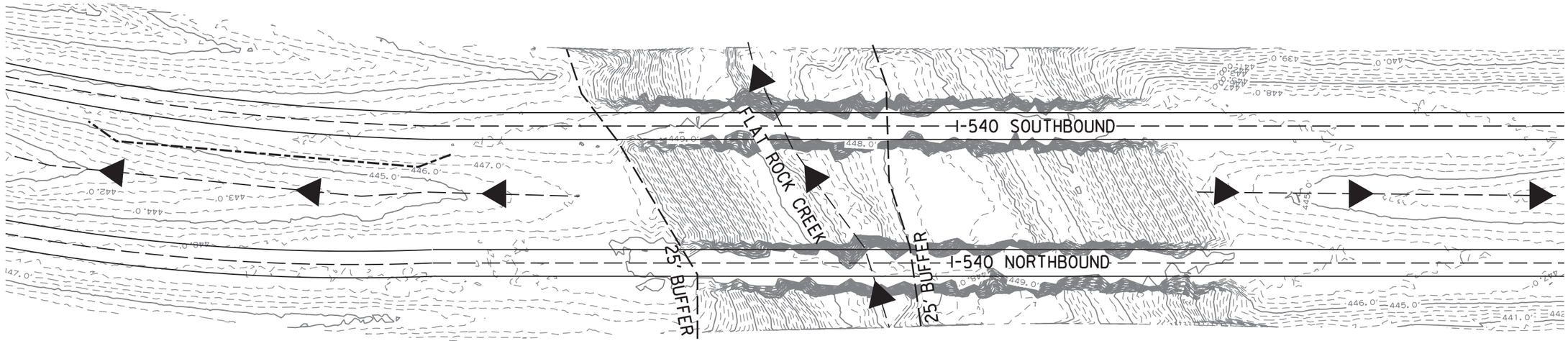
3/7/2023
SPECIAL DETAIL - ENV.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	9	22
		SPECIAL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

N

0 25 50 75 100
HORIZ. SCALE IN FEET



FILTER SOCK ----------

SAND BAG DITCH CHECKS (E-5)

3/7/2023
SPECIAL DETAIL - ENV.dgn

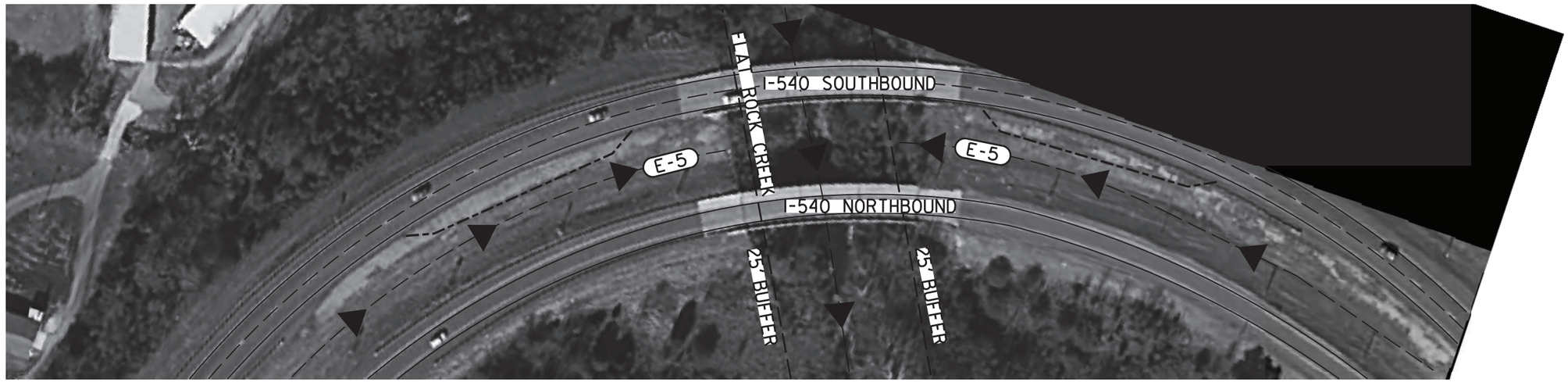
SITE 1 - CRAWFORD COUNTY
SPECIAL DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	10	22
		SPECIAL DETAILS				

0 25 50 75 100

HORIZ. SCALE IN FEET

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023



FILTER SOCK ----------

SAND BAG DITCH CHECKS (E-5)

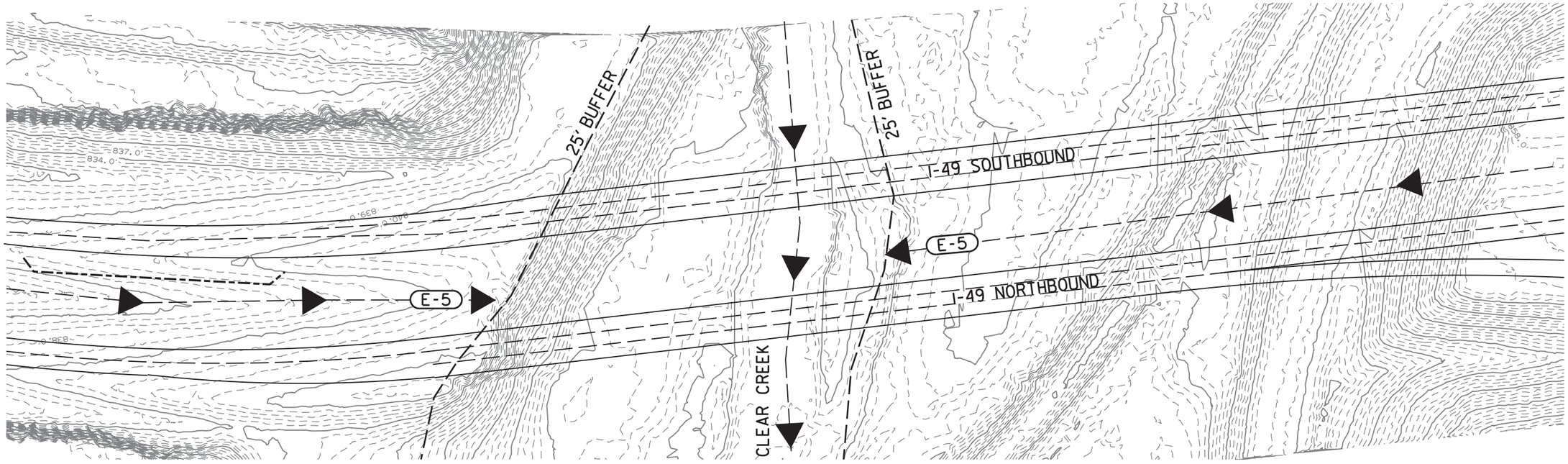
SITE 1 - CRAWFORD COUNTY
SPECIAL DETAILS

3/7/2023
SPECIAL DETAIL - ENV.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	11	22
		SPECIAL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

0 25 50 75 100
HORIZ. SCALE IN FEET



FILTER SOCK ----------

SAND BAG DITCH CHECKS (E-5)

SITE 5 - CRAWFORD COUNTY
SPECIAL DETAILS

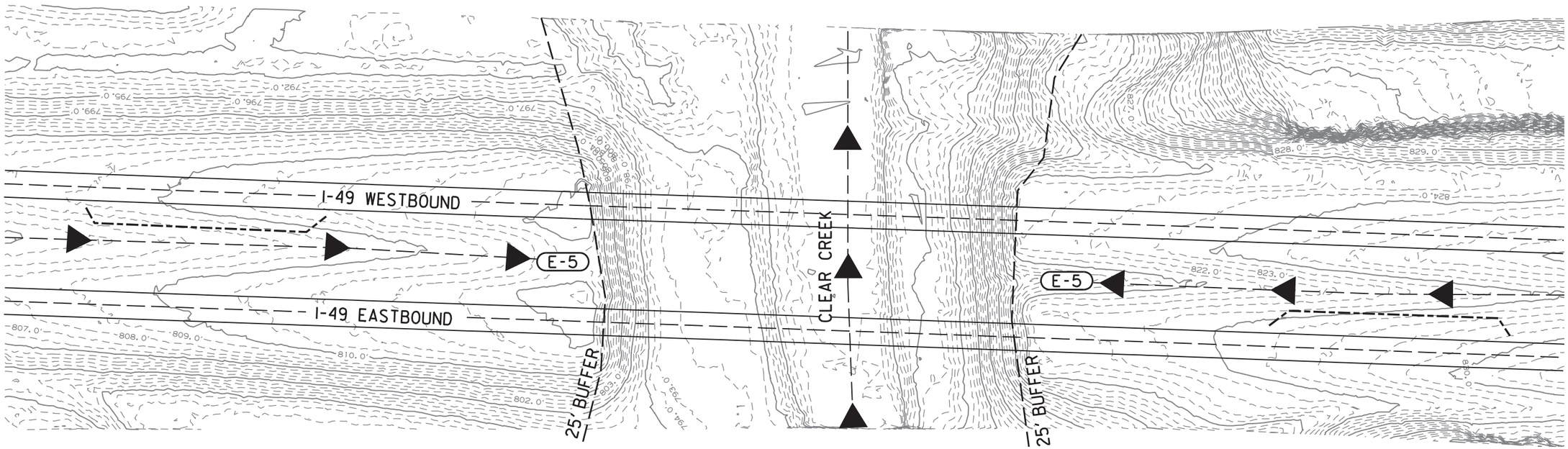
3/7/2023
SPECIAL DETAIL - ENV.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	12	22
		SPECIAL DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

N

0 25 50 75 100
HORIZ. SCALE IN FEET



FILTER SOCK ----------

SAND BAG DITCH CHECKS (E-5)

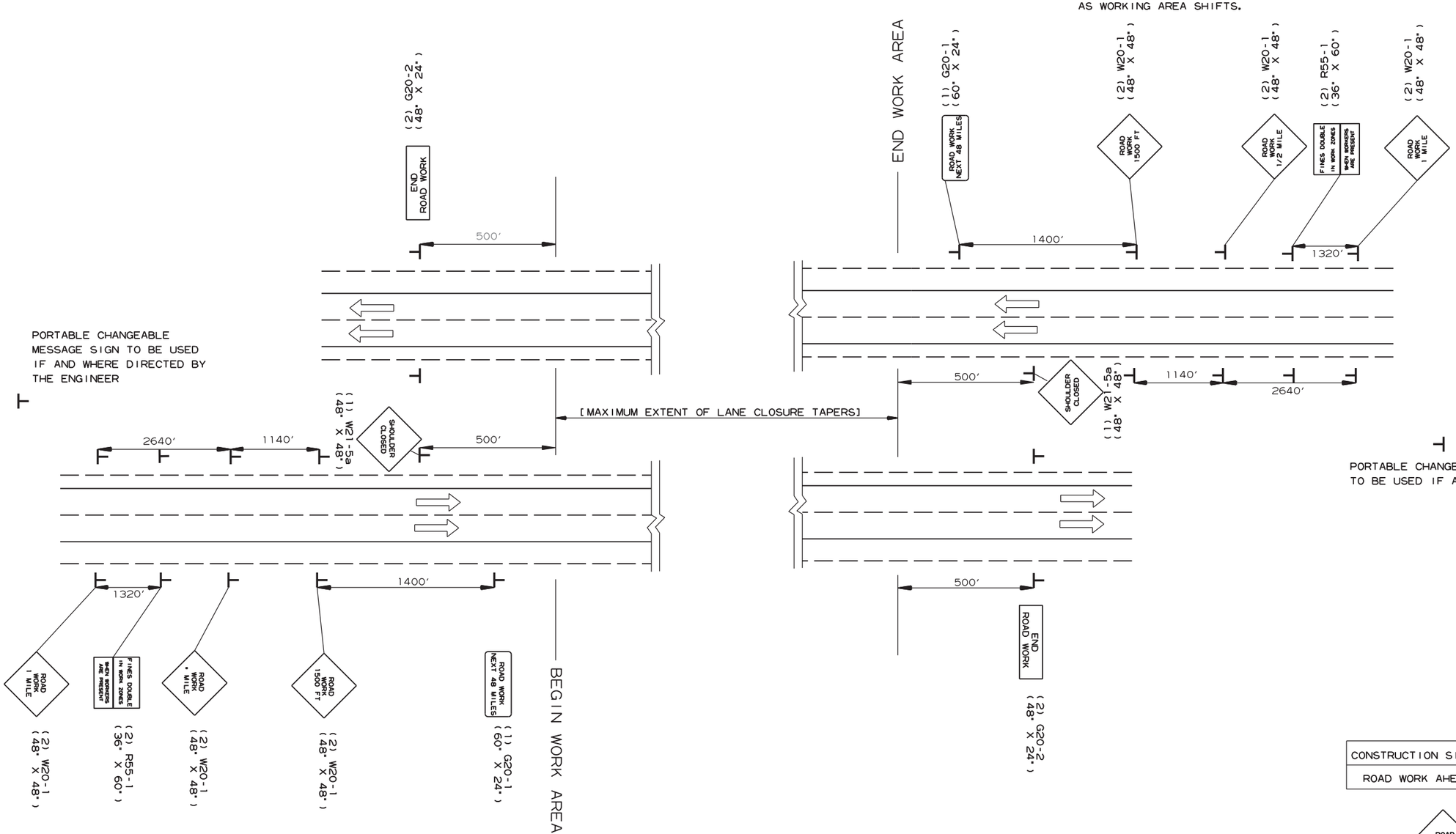
SITE 5 - CRAWFORD COUNTY
SPECIAL DETAILS

3/7/2023
SPECIAL DETAIL - ENV.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	13	22
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

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



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

CONSTRUCTION SIGNS FOR ENTRANCE RAMPS	
ROAD WORK AHEAD (W20-1)	22

ROAD WORK AHEAD
(22) W20-1
(48" X 48")
ON ENTRANCE RAMPS

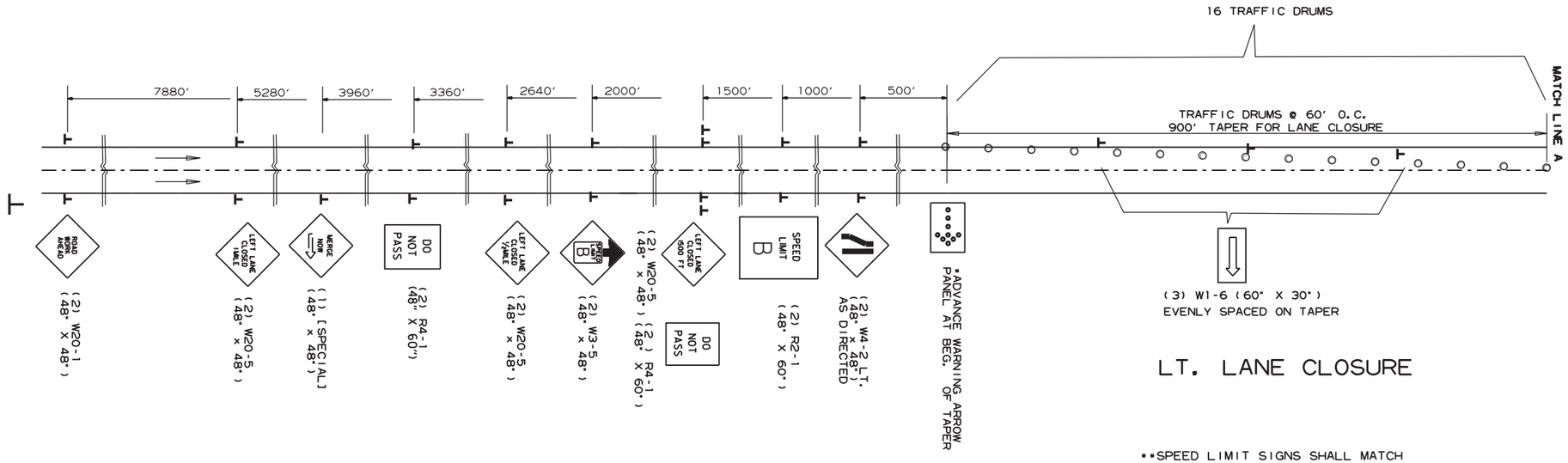
ADVANCE SIGNS AT BEGINNING AND END OF JOB
ALL STAGES

ADVANCE WARNING
MAINTENANCE OF TRAFFIC DETAILS

3/7/2023
Special Details.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	14	22
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023



LT. LANE CLOSURE

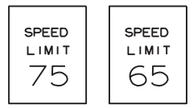
NOTE:
MAINTAIN MINIMUM 12' LANE WIDTH ON LANE REMAINING OPEN

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

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

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

**SPEED LIMIT SIGNS SHALL MATCH PERMANENT SPEED LIMIT.

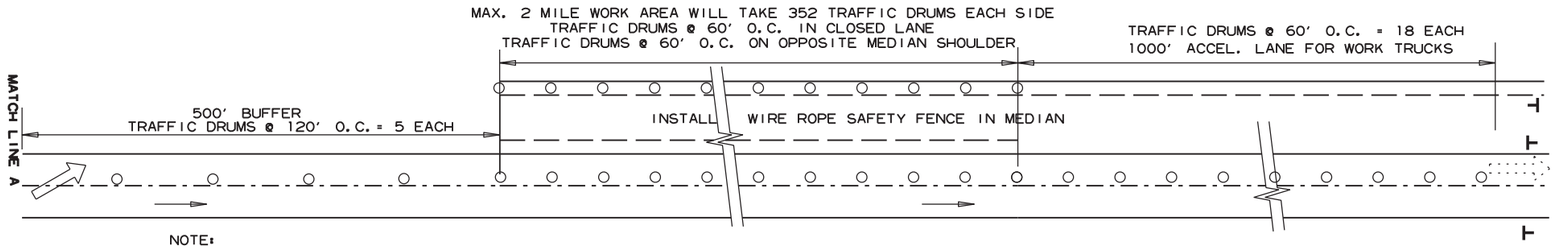


LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

3/7/2023
Special Details.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	15	22
		MAINTENANCE OF TRAFFIC DETAILS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023



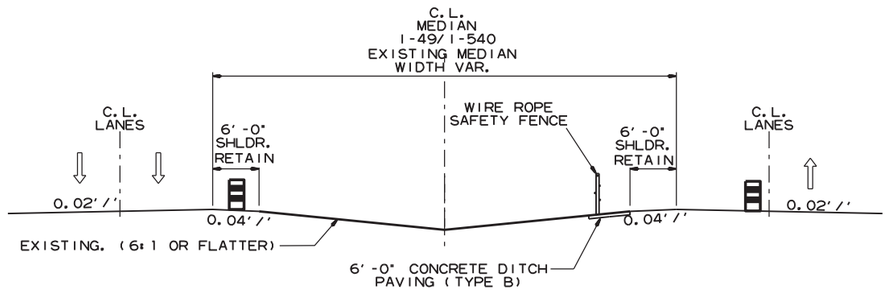
NOTE:
MAINTAIN MINIMUM 12' LANE WIDTH
ON LANE REMAINING OPEN.

WORK VEHICLE ENTRY LOCATION

WORK VEHICLE EXIT LOCATION

SPEED LIMIT B

*(12) R2-1 (48" X 60")



WORK ZONE FOR RIGHT OF CENTERLINE WRSF INSTALLATION

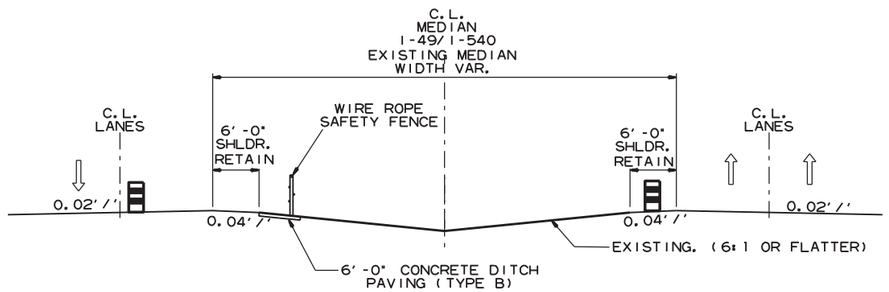
NOTE: REFER TO SP-MAINTENANCE OF TRAFFIC FOR LANE CLOSURE LIMITATIONS AND RESTRICTIONS. QUANTITY OF TRAFFIC DRUMS PROVIDED IN THE CONTRACT IS THE MAXIMUM NUMBER REQUIRED FOR ONE LANE CLOSURE.

*SPEED LIMIT SIGNS SHALL MATCH PERMANENT SPEED LIMIT.

SPEED LIMIT 75

SPEED LIMIT 65

NOTE:
FOR SITES 2-15 USE R2-1(75) FOR 75 MPH TRAVEL SPEED.
FOR SITE 1 USE R2-1(65) FOR 65 MPH TRAVEL SPEED.



WORK ZONE FOR LEFT OF CENTERLINE WRSF INSTALLATION

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

3/7/2023
SpecialDetails.dgn

WORK AREAS
MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	16	22
		QUANTITIES				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	STAGE 1	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	*ADVANCE WARNING ARROW PANEL	*PORTABLE CHANGEABLE MESSAGE SIGN
			EACH		NO.	SQ. FT.	EACH	DAY	WEEK
W20-1	ROAD WORK 1500 FT.	48"X48"	4	4	4	64.0			
W20-1	ROAD WORK AHEAD	48"X48"	9	9	9	144.0			
G20-2	END ROAD WORK	48"X24"	4	4	4	64.0			
G20-1	ROAD WORK NEXT XX MILES	60"X24"	2	2	2	32.0			
W20-1	ROAD WORK 1/2 MILE	48"X48"	4	4	4	32.0			
W20-1	ROAD WORK 1 MILE	48"X48"	4	4	4	40.0			
WI-6	LARGE ARROW	60"X30"	3	3	3	48.0			
R2-1	SPEED LIMIT 65MPH	48"X60"	5	5	5	20.0			
R2-1	SPEED LIMIT 75MPH	48"X60"	5	5	5	50.0			
R4-1	DO NOT PASS	24"X30"	2	2	2	6.0			
R55-1	FINES DOUBLE IN WORK ZONES WHEN WORKERS ARE PRESENT	36"X60"	4	4	4	12.0			
W3-5	SPEED LIMIT CHANGE	48"X48"	2	2	2	16.0			
W4-2 LT	LEFT LANE ENDS	48"X48"	2	2	2	10.0			
W20-5	LEFT LANE CLOSED 1500 FT	48"X48"	2	2	2	10.0			
W20-5	LEFT LANE CLOSED 1/2 MILE	48"X48"	2	2	2	18.0			
W20-5	LEFT LANE CLOSED 1 MILE	48"X48"	2	2	2	12.5			
W20-5A	SHOULDER CLOSED	48"X48"	2	2	2	18.0			
SPECIAL	MERGE NOW RT	48"X48"	1	1	1	16.0			
				0	0				
	TRAFFIC DRUMS		391	391			391		
	ADVANCE WARNING ARROW PANEL		1	1	1			196	
	PORTABLE CHANGEABLE MESSAGE SIGN		2	2	2				56
TOTALS:						**612.5**	**391**	**196**	**56**

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

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

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

3/7/2023
QUANTITY.dgn

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	17	22
		QUANTITIES				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

EROSION CONTROL

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL						
					SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	TEMPORARY SEEDING	MULCH COVER	WATER	18" FILTER SOCK (E-3)	SAND BAG DITCH CHECKS (E-5)	SILT FENCE (E-11)	*SEDIMENT REMOVAL & DISPOSAL
					ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	LIN. FT.	BAG	LIN. FT.	CU. YD.
11.668	12.368	SITE 1	CRAWFORD	RT OF C.L. I-540	0.68	1.36	0.68	69.4	0.68	0.68	0.68	13.9	750	132		
12.550	12.969	SITE 1		LT OF C.L. I-540	0.41	0.82	0.41	41.8	0.41	0.41	0.41	8.4	1250	220		
13.074	13.250	SITE 1		LT OF C.L. I-540	0.17	0.34	0.17	17.4	0.17	0.17	0.17	3.5	750	132		
13.393	13.740	SITE 1		LT OF C.L. I-540	0.34	0.68	0.34	34.7	0.34	0.34	0.34	6.9	500	88		
13.789	14.086	SITE 1		RT OF C.L. I-540	0.29	0.58	0.29	29.6	0.29	0.29	0.29	5.9	750	132		
14.156	14.246	SITE 1		RT OF C.L. I-540	0.09	0.18	0.09	9.2	0.09	0.09	0.09	1.8	250	44		
14.344	14.420	SITE 1		RT OF C.L. I-540	0.07	0.14	0.07	7.2	0.07	0.07	0.07	1.4	250	44		
14.505	14.647	SITE 1		RT OF C.L. I-540	0.14	0.28	0.14	14.3	0.14	0.14	0.14	2.9	250	44		
20.214	21.165	SITE 2		RT OF C.L. I-49	0.92	1.84	0.92	93.9	0.92	0.92	0.92	18.8	650	88		
21.315	21.857	SITE 2		LT OF C.L. I-49	0.53	1.06	0.53	54.1	0.53	0.53	0.53	10.8	1445	132		
21.923	23.730	SITE 2		LT OF C.L. I-49	1.75	3.50	1.75	178.5	1.75	1.75	1.75	35.7	1995	264		
23.720	24.883	SITE 2		RT OF C.L. I-49	1.13	2.26	1.13	115.3	1.13	1.13	1.13	23.1	1150	176		
24.873	25.527	SITE 2		LT OF C.L. I-49	0.63	1.26	0.63	64.3	0.63	0.63	0.63	12.9	450	132		
25.517	25.777	SITE 2		RT OF C.L. I-49	0.25	0.50	0.25	25.5	0.25	0.25	0.25	5.1				
28.342	28.460	SITE 3		LT OF C.L. I-49	0.11	0.22	0.11	11.2	0.11	0.11	0.11	2.2				
30.227	30.576	SITE 4		LT OF C.L. I-49	0.34	0.68	0.34	34.7	0.34	0.34	0.34	6.9	195	44		
32.860	33.281	SITE 5		RT OF C.L. I-49	0.41	0.82	0.41	41.8	0.41	0.41	0.41	8.4				
33.455	33.664	SITE 5		LT OF C.L. I-49	0.20	0.40	0.20	20.4	0.20	0.20	0.20	4.1				
33.890	34.339	SITE 5		LT OF C.L. I-49	0.44	0.88	0.44	44.9	0.44	0.44	0.44	9.0				
35.232	35.623	SITE 6		RT OF C.L. I-49	0.38	0.76	0.38	38.8	0.38	0.38	0.38	7.8	955	44		
35.957	36.624	SITE 7		RT OF C.L. I-49	0.65	1.30	0.65	66.3	0.65	0.65	0.65	13.3				
37.000	37.134	SITE 8		RT OF C.L. I-49	0.13	0.26	0.13	13.3	0.13	0.13	0.13	2.7				
37.785	38.400	SITE 9		LT OF C.L. I-49	0.60	1.20	0.60	61.2	0.60	0.60	0.60	12.2	3650	44		
39.601	40.217	SITE 10		RT OF C.L. I-49	0.60	1.20	0.60	61.2	0.60	0.60	0.60	12.2	795	88		
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.					0.57	1.14	0.57	58.2	0.57	0.57	0.57	11.6	802	93	1500	56
CRAWFORD COUNTY SUBTOTALS:					**11.83**	**23.66**	**11.83**	**1207.20**	**11.83**	**11.83**	**11.83**	**241.50**	**16837**	**1941**	**1500**	**56**
40.217	40.312	SITE 11	WASHINGTON	RT OF C.L. I-49	0.09	0.18	0.09	9.2	0.09	0.09	0.09	1.8	550	44		
45.837	46.907	SITE 12		LT OF C.L. I-49	1.04	2.08	1.04	106.1	1.04	1.04	1.04	21.2	1850	220		
47.381	47.602	SITE 13		RT OF C.L. I-49	0.21	0.42	0.21	21.4	0.21	0.21	0.21	4.3				
48.176	48.906	SITE 14		LT OF C.L. I-49	0.71	1.42	0.71	72.4	0.71	0.71	0.71	14.5	2885	176		
49.126	49.721	SITE 14		LT OF C.L. I-49	0.58	1.16	0.58	59.2	0.58	0.58	0.58	11.8	2095	88		
52.302	52.577	SITE 15		LT OF C.L. I-49	0.27	0.54	0.27	27.6	0.27	0.27	0.27	5.5	545	44		
52.568	53.772	SITE 15		RT OF C.L. I-49	1.17	2.34	1.17	119.4	1.17	1.17	1.17	23.9	3000	88		
53.932	55.528	SITE 15		LT OF C.L. I-49	1.55	3.10	1.55	158.1	1.55	1.55	1.55	31.6	5050	44		
55.543	56.206	SITE 15		LT OF C.L. I-49	0.64	1.28	0.64	65.3	0.64	0.64	0.64	13.1	1395	88		
56.196	57.894	SITE 15		RT OF C.L. I-49	1.65	3.30	1.65	168.3	1.65	1.65	1.65	33.7	4455	44		
57.980	59.396	SITE 15		RT OF C.L. I-49	1.37	2.74	1.37	139.8	1.37	1.37	1.37	27.9	2750	44		
59.522	60.042	SITE 15		LT OF C.L. I-49	0.50	1.00	0.50	51.0	0.50	0.50	0.50	10.2	4350	44		
* ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.					0.49	0.98	0.49	50.0	0.49	0.49	0.49	10.0	1447	47	1000	37
WASHINGTON COUNTY SUBTOTALS:					**10.27**	**20.54**	**10.27**	**1047.8**	**10.27**	**10.27**	**10.27**	**209.50**	**30372**	**971**	**1000**	**37**
TOTALS:					**22.10**	**44.20**	**22.10**	**2255.00**	**22.10**	**22.10**	**22.10**	**451.00**	**47209**	**2912**	**2500**	**93**

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

BASIS OF ESTIMATE:
LIME .....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING
WATER.....20.4 M.G. / ACRE OF TEMPORARY SEEDING
WATER.....12.6 GAL./SQ. YD. OF SOLID SODDING
SAND BAG DITCH CHECKS .....22 BAGS / LOCATION

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

3/7/2023
QUANTITY.dgn

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	18	22
		QUANTITIES				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

CONCRETE DITCH PAVING

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	LENGTH	"W"	CONC. DITCH PAVING (TYPE B)	SOLID SODDING	WATER
					LIN. FT.	FEET	SQ. YD.	SQ. YD.	M. GAL.
11.668	12.326	SITE 1	CRAWFORD	RT OF C.L. I-540	3474.24	6.00	2316.16	772.05	973
* 12.326	12.368	SITE 1		RT OF C.L. I-540	221.76	VAR.	150.00	49.28	062
* 12.550	12.592	SITE 1		RT OF C.L. I-540	221.76	VAR.	150.00	49.28	062
12.592	12.969	SITE 1		LT OF C.L. I-540	1990.56	6.00	1327.04	442.35	557
* 13.074	13.116	SITE 1		RT OF C.L. I-540	221.76	VAR.	150.00	49.28	062
13.116	13.250	SITE 1		LT OF C.L. I-540	707.52	6.00	471.68	157.23	198
* 13.393	13.435	SITE 1		RT OF C.L. I-540	221.76	VAR.	150.00	49.28	062
13.435	13.740	SITE 1		LT OF C.L. I-540	1610.40	6.00	1073.60	357.87	451
13.789	14.044	SITE 1		RT OF C.L. I-540	1346.40	6.00	897.60	299.20	377
* 14.044	14.086	SITE 1		RT OF C.L. I-540	221.76	VAR.	150.00	49.28	062
14.156	14.204	SITE 1		RT OF C.L. I-540	253.44	6.00	168.96	56.32	071
* 14.204	14.246	SITE 1		RT OF C.L. I-540	221.76	VAR.	150.00	49.28	062
14.344	14.378	SITE 1		RT OF C.L. I-540	179.52	6.00	119.68	39.89	050
14.505	14.647	SITE 1		RT OF C.L. I-540	749.76	6.00	499.84	166.61	210
20.214	21.123	SITE 2		RT OF C.L. I-49	4799.52	6.00	3199.68	1066.56	13.44
* 21.123	21.165	SITE 2		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
* 21.315	21.357	SITE 2		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
21.357	21.857	SITE 2		LT OF C.L. I-49	2640.00	6.00	1760.00	586.67	739
* 21.923	21.965	SITE 2		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
21.965	23.730	SITE 2		LT OF C.L. I-49	9319.20	6.00	6212.80	2070.93	26.09
23.720	24.883	SITE 2		LT OF C.L. I-49	6140.64	6.00	4093.76	1364.59	17.19
24.873	25.527	SITE 2		LT OF C.L. I-49	3453.12	6.00	2302.08	767.36	967
25.517	25.777	SITE 2		LT OF C.L. I-49	1372.80	6.00	915.20	305.07	384
28.342	28.460	SITE 3		LT OF C.L. I-49	623.04	6.00	415.36	138.45	174
30.227	30.534	SITE 4		LT OF C.L. I-49	1620.96	6.00	1080.64	360.21	454
* 30.534	30.576	SITE 4		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
32.860	33.239	SITE 5		LT OF C.L. I-49	2001.12	6.00	1334.08	444.69	560
* 33.239	33.281	SITE 5		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
33.455	33.622	SITE 5		LT OF C.L. I-49	881.76	6.00	587.84	195.95	247
* 33.622	33.664	SITE 5		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
33.890	34.339	SITE 5		LT OF C.L. I-49	2370.72	6.00	1580.48	526.83	664
35.232	35.623	SITE 6		LT OF C.L. I-49	2064.48	6.00	1376.32	458.77	578
* 35.957	35.999	SITE 7		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
35.999	36.624	SITE 7		LT OF C.L. I-49	3300.00	6.00	2200.00	733.33	924
37.000	37.092	SITE 8		LT OF C.L. I-49	485.76	6.00	323.84	107.95	136
* 37.092	37.134	SITE 8		LT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
37.785	38.400	SITE 9		LT OF C.L. I-49	3247.20	6.00	2164.80	721.60	909
39.601	40.217	SITE 10		RT OF C.L. I-49	3252.48	6.00	2168.32	722.77	911
CRAWFORD COUNTY SUBTOTALS:							**40689.76**	**13553.17**	**170.74**
40.217	40.312	SITE 11	WASHINGTON	RT OF C.L. I-49	501.60	6.00	334.40	111.47	140
45.837	46.907	SITE 12		RT OF C.L. I-49	5649.60	6.00	3766.40	1255.47	15.82
47.381	47.560	SITE 13		RT OF C.L. I-49	945.12	6.00	630.08	210.03	265
* 47.560	47.602	SITE 13		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
48.176	48.906	SITE 14		RT OF C.L. I-49	3854.40	6.00	2569.60	856.53	10.79
* 49.126	49.168	SITE 14		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
49.168	49.721	SITE 14		RT OF C.L. I-49	2919.84	6.00	1946.56	648.85	818
52.302	52.577	SITE 15		RT OF C.L. I-49	1452.00	6.00	968.00	322.67	407
52.568	53.730	SITE 15		RT OF C.L. I-49	6135.36	6.00	4090.24	1363.41	17.18
* 53.730	53.772	SITE 15		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
* 53.932	53.974	SITE 15		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
53.974	55.528	SITE 15		RT OF C.L. I-49	8205.12	6.00	5470.08	1823.36	22.97
55.543	56.206	SITE 15		RT OF C.L. I-49	3500.64	6.00	2333.76	777.92	980
56.196	57.852	SITE 15		RT OF C.L. I-49	8743.68	6.00	5829.12	1943.04	24.48
* 57.852	57.894	SITE 15		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
57.980	59.354	SITE 15		RT OF C.L. I-49	7254.72	6.00	4836.48	1612.16	20.31
* 59.354	59.396	SITE 15		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
* 59.522	59.564	SITE 15		RT OF C.L. I-49	221.76	VAR.	150.00	49.28	062
59.564	60.042	SITE 15		LT OF C.L. I-49	2523.84	6.00	1682.56	560.85	707
WASHINGTON COUNTY SUBTOTALS:							**35507.28**	**11830.72**	**149.06**
TOTALS:							**76197.04**	**25383.89**	**319.80**

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

* AT EXISTING GUARDRAIL AREAS

WIRE ROPE SAFETY FENCE

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	WIRE ROPE SAFETY FENCE	WRSF ANCHOR*	WRSF MAINTENANCE MATERIALS
					LIN. FT.	EACH	LUMP SUM
11.668	12.368	SITE 1	CRAWFORD	RT OF C.L. I-540	3697	2	
12.550	12.969	SITE 1		LT OF C.L. I-540	2213	2	
13.074	13.250	SITE 1		LT OF C.L. I-540	930	2	
13.393	13.740	SITE 1		LT OF C.L. I-540	1833	2	
13.789	14.086	SITE 1		RT OF C.L. I-540	1569	2	
14.156	14.246	SITE 1		RT OF C.L. I-540	476	2	
14.344	14.420	SITE 1		RT OF C.L. I-540	402	2	
14.505	14.647	SITE 1		RT OF C.L. I-540	750	2	
20.214	21.165	SITE 2		RT OF C.L. I-49	5022	2	
21.315	21.857	SITE 2		LT OF C.L. I-49	2862	2	
21.923	23.730	SITE 2		LT OF C.L. I-49	9541	2	
23.720	24.883	SITE 2		RT OF C.L. I-49	6141	2	
24.873	25.527	SITE 2		LT OF C.L. I-49	3454	2	
25.517	25.777	SITE 2		RT OF C.L. I-49	1373	2	
28.342	28.460	SITE 3		LT OF C.L. I-49	624	2	
30.227	30.576	SITE 4		LT OF C.L. I-49	1843	2	
32.860	33.281	SITE 5		RT OF C.L. I-49	2223	2	
33.455	33.664	SITE 5		LT OF C.L. I-49	1104	2	
33.890	34.339	SITE 5		LT OF C.L. I-49	2371	2	
35.232	35.623	SITE 6		RT OF C.L. I-49	2065	2	
35.957	36.624	SITE 7		RT OF C.L. I-49	3522	2	
37.000	37.134	SITE 8		RT OF C.L. I-49	708	2	
37.785	38.400	SITE 9		LT OF C.L. I-49	3248	2	
39.601	40.217	SITE 10		RT OF C.L. I-49	3253	1	
CRAWFORD COUNTY SUBTOTALS:					**61224**	**47**	**0.50**
40.217	40.312	SITE 11	WASHINGTON	RT OF C.L. I-49	502	1	
45.837	46.907	SITE 12		LT OF C.L. I-49	5650	2	
47.381	47.602	SITE 13		RT OF C.L. I-49	1167	2	
48.176	48.906	SITE 14		LT OF C.L. I-49	3855	2	
49.126	49.721	SITE 14		LT OF C.L. I-49	3142	2	
52.302	52.577	SITE 15		LT OF C.L. I-49	1452	2	
52.568	53.772	SITE 15		RT OF C.L. I-49	6358	2	
53.932	55.528	SITE 15		LT OF C.L. I-49	8427	2	
55.543	56.206	SITE 15		LT OF C.L. I-49	3501	2	
56.196	57.894	SITE 15		RT OF C.L. I-49	8966	2	
57.980	59.396	SITE 15		RT OF C.L. I-49	7477	2	
59.522	60.042	SITE 15		LT OF C.L. I-49	2746	2	
WASHINGTON COUNTY SUBTOTALS:					**53243**	**23**	**0.50**
ENTIRE PROJECT							**1.00**
TOTALS:					**114467**	**70**	**1.00**

* THIS ITEM SHOWN FOR INFORMATION ONLY

3/7/2023
QUANTITY.dgn

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	19	22
		QUANTITIES				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023

BASE AND SURFACING

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	LENGTH	AGGREGATE BASE COURSE (CLASS 7)		ACHM SURFACE COURSE (1/2")			
						TON / STATION	TON	AVG. WID.	SQ.YD.	POUND / SQ.YD.	PG 64-22
					FEET			FEET			TON
11.668	12.368	SITE 1	CRAWFORD	RT OF C.L. I-540	3696.00	8.00	295.68	2.00	821.33	220.00	90.35
12.550	12.969	SITE 1		LT OF C.L. I-540	2212.32	8.00	176.99	2.00	491.63	220.00	54.08
13.074	13.250	SITE 1		LT OF C.L. I-540	929.28	8.00	74.34	2.00	206.51	220.00	22.72
13.393	13.740	SITE 1		LT OF C.L. I-540	1832.16	8.00	146.57	2.00	407.15	220.00	44.79
13.789	14.086	SITE 1		RT OF C.L. I-540	1568.16	8.00	125.45	2.00	348.48	220.00	38.33
14.156	14.246	SITE 1		RT OF C.L. I-540	475.20	8.00	38.02	2.00	105.60	220.00	11.62
14.344	14.420	SITE 1		RT OF C.L. I-540	401.28	8.00	32.10	2.00	89.17	220.00	9.81
14.505	14.647	SITE 1		RT OF C.L. I-540	749.76	8.00	59.98	2.00	166.61	220.00	18.33
20.214	21.165	SITE 2		RT OF C.L. I-49	5021.28	8.00	401.70	2.00	1115.84	220.00	122.74
21.315	21.857	SITE 2		LT OF C.L. I-49	2861.76	8.00	228.94	2.00	635.95	220.00	69.95
21.923	23.730	SITE 2		LT OF C.L. I-49	9540.96	8.00	763.28	2.00	2120.21	220.00	233.22
23.720	24.883	SITE 2		RT OF C.L. I-49	6140.64	8.00	491.25	2.00	1364.59	220.00	150.10
24.873	25.527	SITE 2		LT OF C.L. I-49	3453.12	8.00	276.25	2.00	767.36	220.00	84.41
25.517	25.777	SITE 2		RT OF C.L. I-49	1372.80	8.00	109.82	2.00	305.07	220.00	33.56
28.342	28.460	SITE 3		LT OF C.L. I-49	623.04	8.00	49.84	2.00	138.45	220.00	15.23
30.227	30.576	SITE 4		LT OF C.L. I-49	1842.72	8.00	147.42	2.00	409.49	220.00	45.04
32.860	33.281	SITE 5		RT OF C.L. I-49	2222.88	8.00	177.83	2.00	493.97	220.00	54.34
33.455	33.664	SITE 5		LT OF C.L. I-49	1103.52	8.00	88.28	2.00	245.23	220.00	26.98
33.890	34.339	SITE 5		LT OF C.L. I-49	2370.72	8.00	189.66	2.00	526.83	220.00	57.95
35.232	35.623	SITE 6		RT OF C.L. I-49	2064.48	8.00	165.16	2.00	458.77	220.00	50.46
35.957	36.624	SITE 7		RT OF C.L. I-49	3521.76	8.00	281.74	2.00	782.61	220.00	86.09
37.000	37.134	SITE 8		RT OF C.L. I-49	707.52	8.00	56.60	2.00	157.23	220.00	17.30
37.785	38.400	SITE 9		LT OF C.L. I-49	3247.20	8.00	259.78	2.00	721.60	220.00	79.38
39.601	40.217	SITE 10		RT OF C.L. I-49	3252.48	8.00	260.20	2.00	722.77	220.00	79.50
* TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.							245.00		681.00		75.00
CRAWFORD COUNTY SUBTOTALS:							**5141.88**		**14283.45**		**1571.28**
40.217	40.312	SITE 11	WASHINGTON	RT OF C.L. I-49	501.60	8.00	40.13	2.00	111.47	220.00	12.26
45.837	46.907	SITE 12		LT OF C.L. I-49	5649.60	8.00	451.97	2.00	1255.47	220.00	138.10
47.381	47.602	SITE 13		RT OF C.L. I-49	1166.88	8.00	93.35	2.00	259.31	220.00	28.52
48.176	48.906	SITE 14		LT OF C.L. I-49	3854.40	8.00	308.35	2.00	856.53	220.00	94.22
49.126	49.721	SITE 14		LT OF C.L. I-49	3141.60	8.00	251.33	2.00	698.13	220.00	76.79
52.302	52.577	SITE 15		LT OF C.L. I-49	1452.00	8.00	116.16	2.00	322.67	220.00	35.49
52.568	53.772	SITE 15		RT OF C.L. I-49	6357.12	8.00	508.57	2.00	1412.69	220.00	155.40
53.932	55.528	SITE 15		LT OF C.L. I-49	8426.88	8.00	674.15	2.00	1872.64	220.00	205.99
55.543	56.206	SITE 15		LT OF C.L. I-49	3500.64	8.00	280.05	2.00	777.92	220.00	85.57
56.196	57.894	SITE 15		RT OF C.L. I-49	8965.44	8.00	717.24	2.00	1992.32	220.00	219.16
57.980	59.396	SITE 15		RT OF C.L. I-49	7476.48	8.00	598.12	2.00	1661.44	220.00	182.76
59.522	60.042	SITE 15		LT OF C.L. I-49	2745.60	8.00	219.65	2.00	610.13	220.00	67.11
* TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.							213.00		592.00		66.00
WASHINGTON COUNTY SUBTOTALS:							**4472.07**		**12422.72**		**1367.37**
TOTALS:							**9613.95**		**26706.17**		**2938.65**

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

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

TRENCHING AND SHOULDER PREPARATION

LOG MILE	LOG MILE	SITE NUMBER	COUNTY	LOCATION	TRENCHING AND SHOULDER PREPARTION
					STATION
11.668	12.368	SITE 1	CRAWFORD	RT OF C.L. I-540	37
12.550	12.969	SITE 1		LT OF C.L. I-540	23
13.074	13.250	SITE 1		LT OF C.L. I-540	10
13.393	13.740	SITE 1		LT OF C.L. I-540	19
13.789	14.086	SITE 1		RT OF C.L. I-540	16
14.156	14.246	SITE 1		RT OF C.L. I-540	5
14.344	14.420	SITE 1		RT OF C.L. I-540	5
14.505	14.647	SITE 1		RT OF C.L. I-540	8
20.214	21.165	SITE 2		RT OF C.L. I-49	51
21.315	21.857	SITE 2		LT OF C.L. I-49	29
21.923	23.730	SITE 2		LT OF C.L. I-49	96
23.720	24.883	SITE 2		RT OF C.L. I-49	62
24.873	25.527	SITE 2		LT OF C.L. I-49	35
25.517	25.777	SITE 2		RT OF C.L. I-49	14
28.342	28.460	SITE 3		LT OF C.L. I-49	7
30.227	30.576	SITE 4		LT OF C.L. I-49	19
32.860	33.281	SITE 5		RT OF C.L. I-49	23
33.455	33.664	SITE 5		LT OF C.L. I-49	12
33.890	34.339	SITE 5		LT OF C.L. I-49	24
35.232	35.623	SITE 6		RT OF C.L. I-49	21
35.957	36.624	SITE 7		RT OF C.L. I-49	36
37.000	37.134	SITE 8		RT OF C.L. I-49	8
37.785	38.400	SITE 9		LT OF C.L. I-49	33
39.601	40.217	SITE 10		RT OF C.L. I-49	33
CRAWFORD COUNTY SUBTOTAL:					**626**
40.217	40.312	SITE 11	WASHINGTON	RT OF C.L. I-49	6
45.837	46.907	SITE 12		LT OF C.L. I-49	57
47.381	47.602	SITE 13		RT OF C.L. I-49	12
48.176	48.906	SITE 14		LT OF C.L. I-49	39
49.126	49.721	SITE 14		LT OF C.L. I-49	32
52.302	52.577	SITE 15		LT OF C.L. I-49	15
52.568	53.772	SITE 15		RT OF C.L. I-49	64
53.932	55.528	SITE 15		LT OF C.L. I-49	85
55.543	56.206	SITE 15		LT OF C.L. I-49	36
56.196	57.894	SITE 15		RT OF C.L. I-49	90
57.980	59.396	SITE 15		RT OF C.L. I-49	75
59.522	60.042	SITE 15		LT OF C.L. I-49	28
WASHINGTON COUNTY SUBTOTAL :					**539**
TOTAL:					**1165**

3/7/2023
QUANTITY.dgn

QUANTITIES

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	20	22
		SUMMARY OF QUANTITIES AND REVISIONS				

Digitally signed by Raymond K. Eidson
Date: 2023.03.08 16:23:11-06'00'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
SP & 215	TRENCHING AND SHOULDER PREPARATION	1165	STATION
SP, SS, & 303	AGGREGATE BASE COURSE (CLASS 7)	9614	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	2786	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	153	TON
601	MOBILIZATION	1.00	LUMP SUM
SP, SS, & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	613	SQ. FT.
SS & 604	TRAFFIC DRUMS	391	EACH
SS & 604	ADVANCE WARNING ARROW PANEL	196	DAY
SP, SS, & 604	PORTABLE CHANGEABLE MESSAGE SIGN	56	WEEK
SP, SS, & 605	CONCRETE DITCH PAVING (TYPE B)	76197	SQ. YD.
SP	WIRE ROPE SAFETY FENCE	114467	LIN. FT.
SP	WIRE ROPE SAFETY FENCE MAINTENANCE MATERIALS	1.00	LUMP SUM
620	LIME	44	TON
620	SEEDING	22.10	ACRE
SS & 620	MULCH COVER	44.20	ACRE
620	WATER	3025.8	M. GAL.
621	TEMPORARY SEEDING	22.10	ACRE
621	SILT FENCE	2500	LIN. FT.
621	SAND BAG DITCH CHECKS	2912	BAG
621	SEDIMENT REMOVAL AND DISPOSAL	93	CU. YD.
SS & 621	FILTER SOCK (18")	47209	LIN. FT.
623	SECOND SEEDING APPLICATION	22.10	ACRE
624	SOLID SODDING	25384	SQ. YD.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM

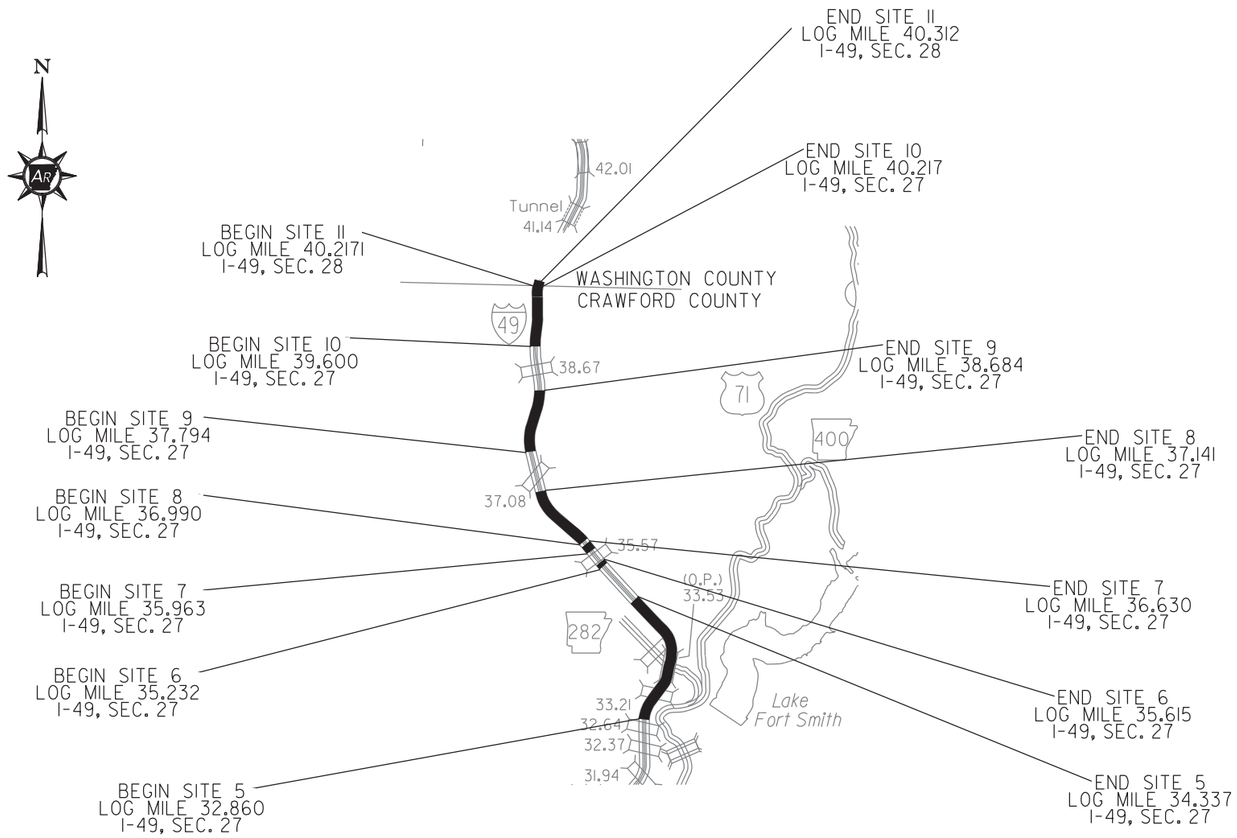
REVISIONS

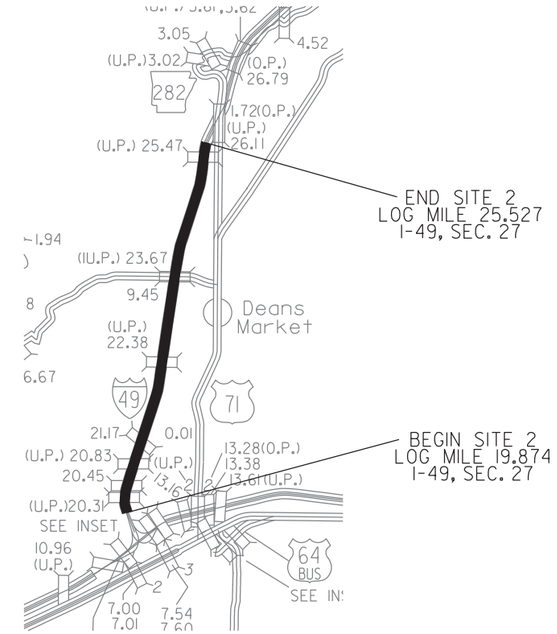
DATE	REVISION	SHEET NUMBER

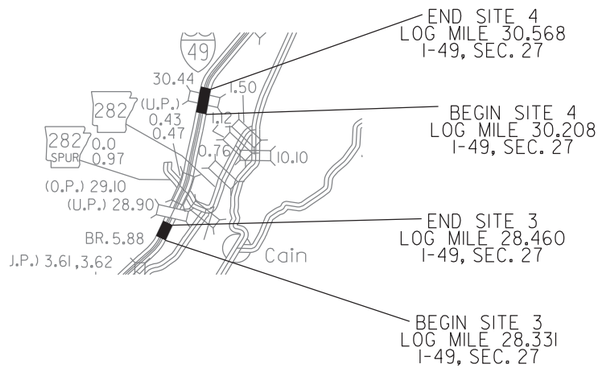
3/8/2023
QUANTITY.dgn

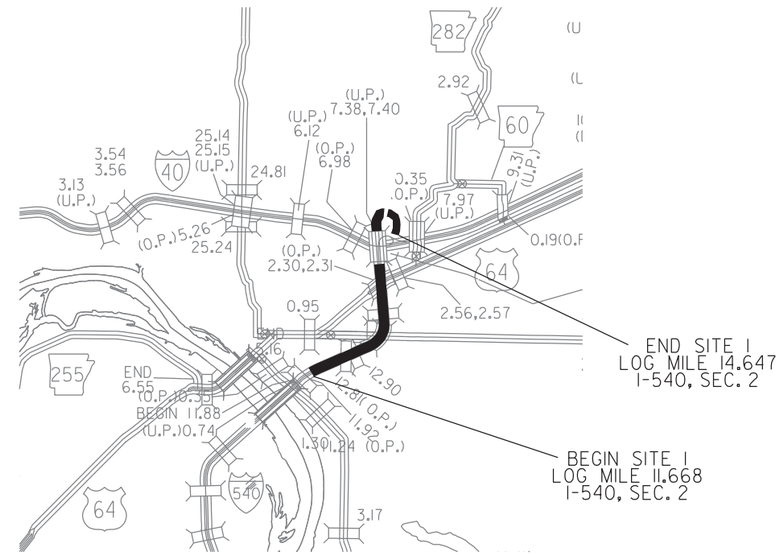
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	21	22
		WASHINGTON AND CRAWFORD COUNTIES PLANS				

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023







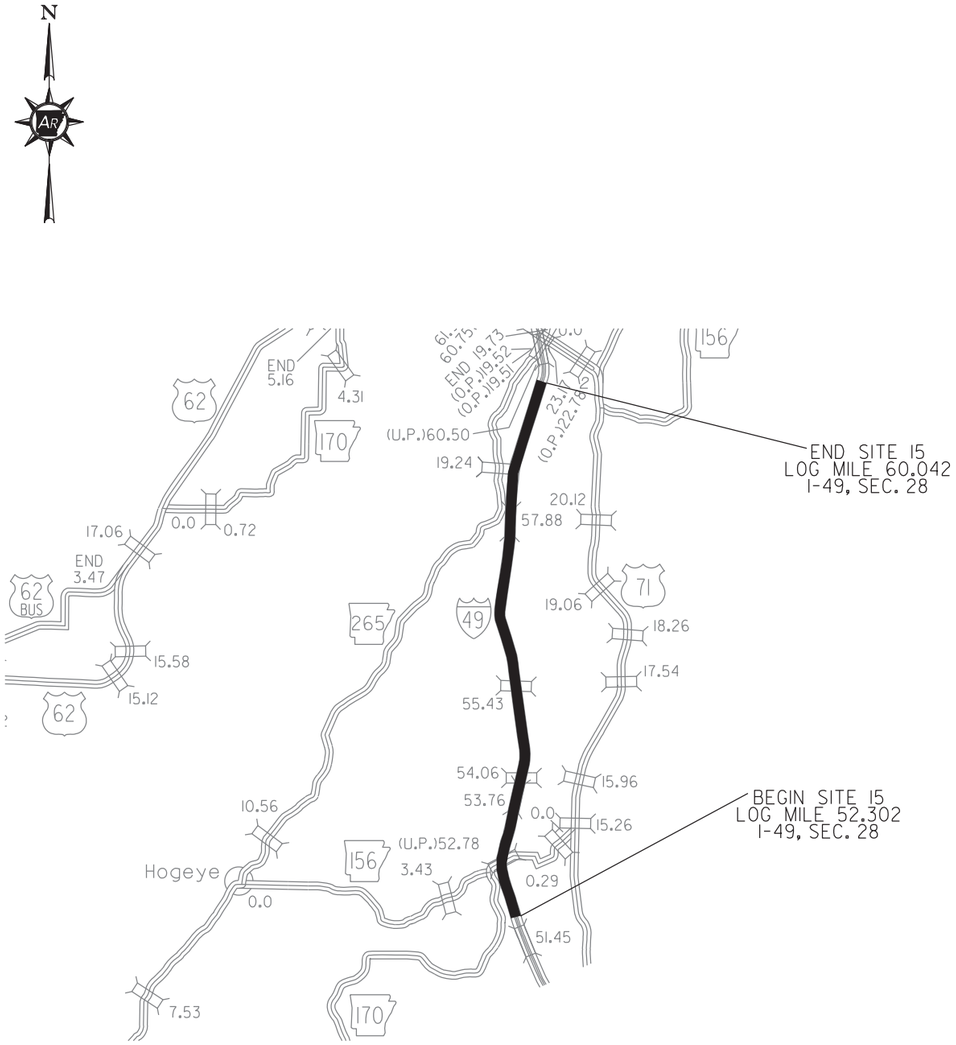


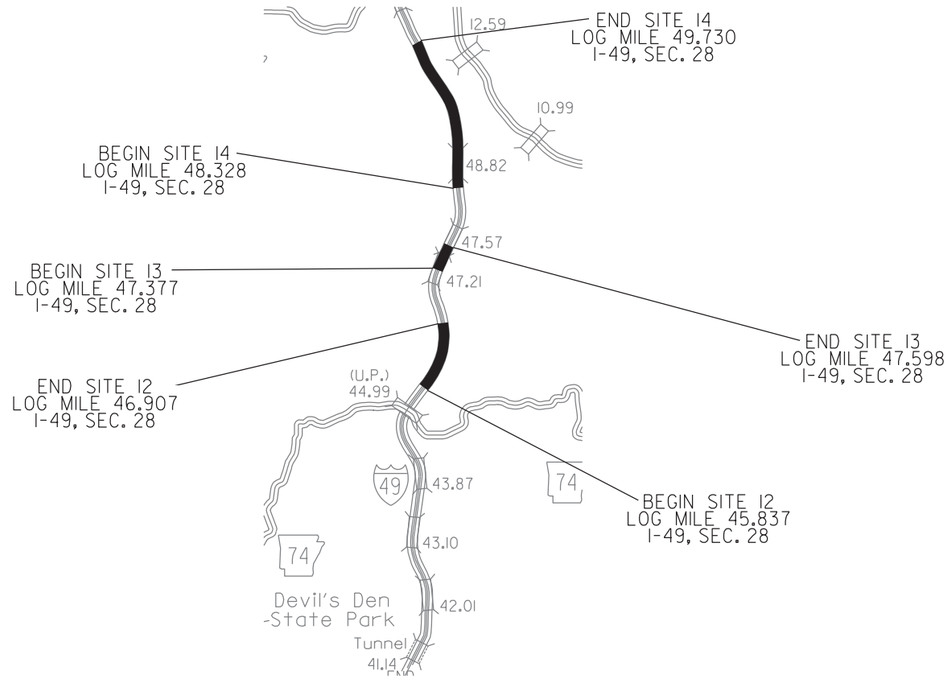
SITES I-II
WASHINGTON AND CRAWFORD COUNTIES PLANS

3/7/2023
County Plan Layout.22dgn.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040895	22	22
		WASHINGTON COUNTY PLAN				

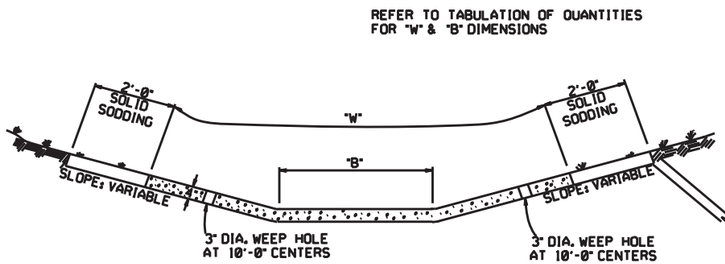
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19372
RAYMOND KYLE EIDSON
03/07/2023





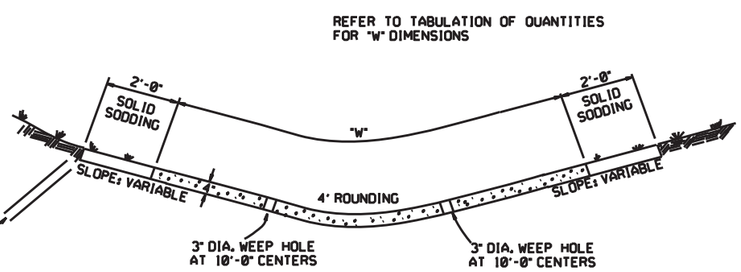
SITES 12-15
WASHINGTON COUNTY PLAN

3/7/2023
County Plan Layout.22dgn.dgn



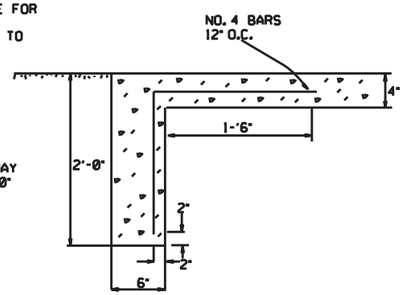
TYPE A

EXCAVATE TO NEAT LINES TO CONSTRUCT DITCH PAVING AND SOLID SODDING.



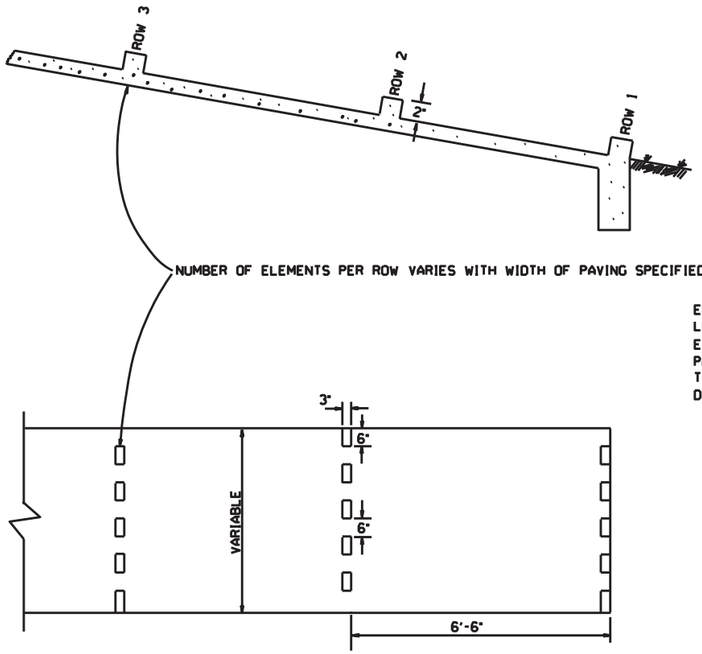
TYPE B

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 DEPTH MAY BE ALTERED TO 1'-0" WHEN DIRECTED BY THE ENGINEER IN ROCK EXCAVATION

TOE WALL DETAIL FOR CONCRETE DITCH PAVING



ENERGY DISSIPATORS
(NO SCALE)

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.

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

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

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

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

DATE	REVISION	DATE FILM'D
12-8-16	CORRECTED ENERGY DISSIPATOR DRAWING AND NOTE	
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	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 ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

STANDARD DRAWING CDP-1

R1-1

STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2

STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

W3-5

STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

W3-5a

STD. 36"X36"
EXPWY. 48"X48"
FWY. 48"X48"

R4-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

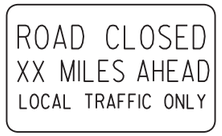
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2

48"X30"

R11-3A



60"X30"

R11-4

60"X30"

W21-5a

STD. 36"X36"
FWY. 48"X48"

W1-1

STD. 36"X36"
FWY. 48"X48"

W1-2

STD. 36"X36"
FWY. 48"X48"

W1-3

STD. 48"X48"

W1-4

STD. 48"X48"

W1-6

STD. 48"X24"
SPECIAL 60"X30"

W1-8

STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

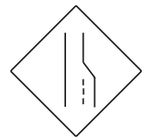
W3-1

STD. 36"X36"
SPECIAL 48"X48"

W3-2

STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1

STD. 36"X36"
SPECIAL 48"X48"

W6-3

EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7

EXPWY. 36"X36"
FWY. 48"X48"

W9-2

STD. 36"X36"
FWY. 48"X48"

W13-1

STD. 24"X24"

W20-1

STD. 48"X48"

W20-2

STD. 48"X48"

W20-3

STD. 48"X48"

W20-4

STD. 48"X48"

W20-5

STD. 48"X48"

W20-7a

STD. 36"X36"
FWY. 48"X48"

W21-2

STD. 30"X30"
SPECIAL 36"X36"

W21-5

STD. 30"X30"
SPECIAL 36"X36"

W24-1

STD. 36"X36"

W1-4b

STD. 48"X48"

R56-1

STD. 18"X18"

W8-11

STD. 36"X36"
FWY. 48"X48"

W8-9

STD. 36"X36"
FWY. 48"X48"

G20-1

60"X24"

G20-2

48"X24"

OM-3L OM-3R

12"X36"

M4-9

STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10

48"X18"

R55-1

36"X60"

• USE 6" C LETTERS
•• USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	½ MILE
1000 FT	¾ MILE
1500 FT	1 MILE
	AHEAD

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.

3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.

• 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.

• 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.

6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.

7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.

8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.

9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.

10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

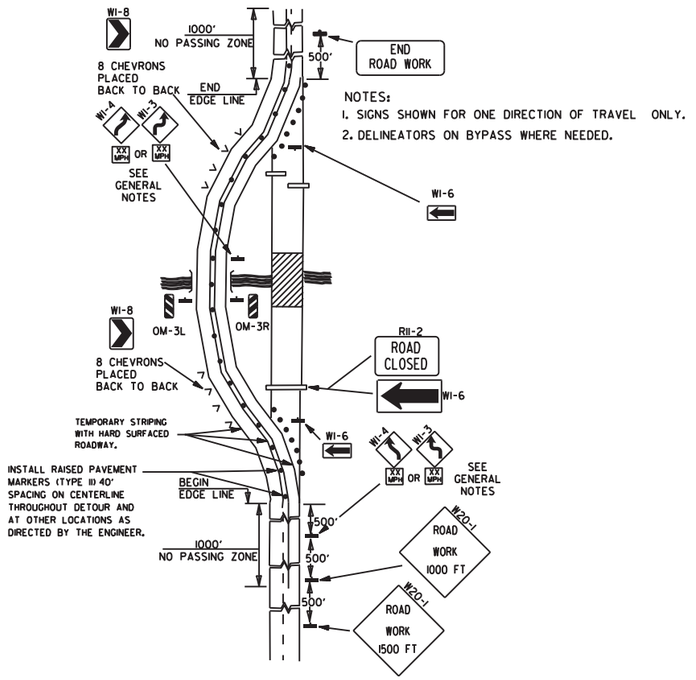
• NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED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

DATE	REVISION	FILMED
11-07-19	REVISED FOR MASH	
4-13-17	DELETED RSP-1 & ADDED W21-5a	
9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES	
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

ARKANSAS STATE HIGHWAY COMMISSION

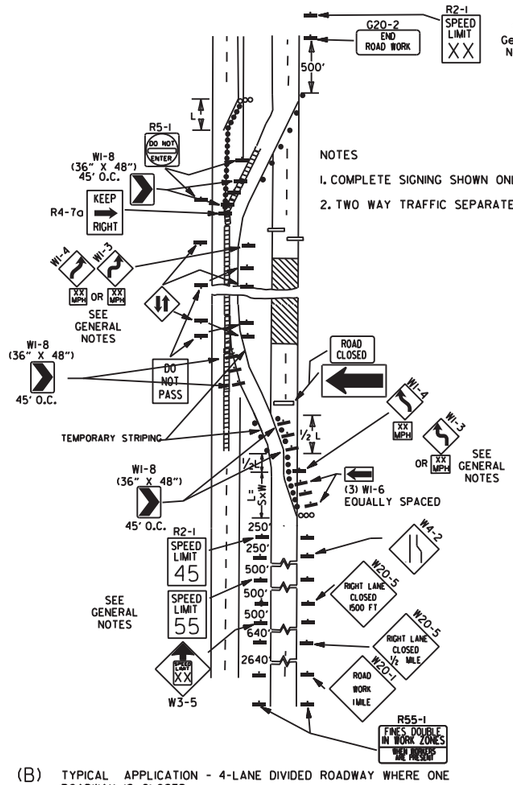
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



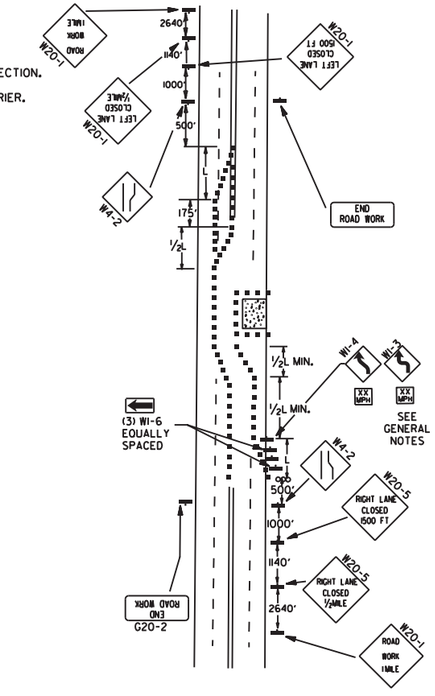
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

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

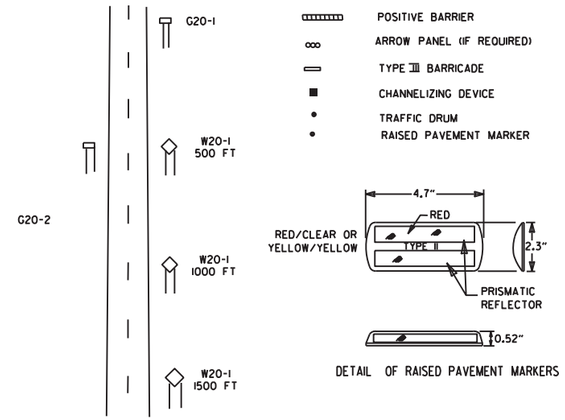


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(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.



DETAIL OF RAISED PAVEMENT MARKERS

TYPICAL ADVANCE WARNING SIGN PLACEMENT

TAPER FORMULAE:

L=SXW FOR SPEEDS OF 45MPH OR MORE.

$L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.

WHERE:

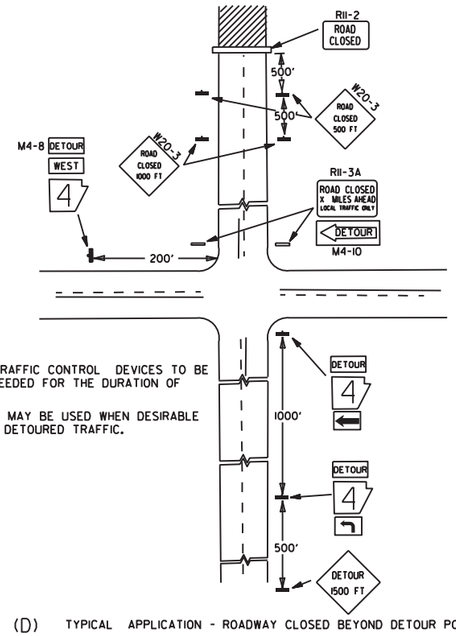
L= MINIMUM LENGTH OF TAPER.

S= NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.

W= WIDTH OF OFFSET.

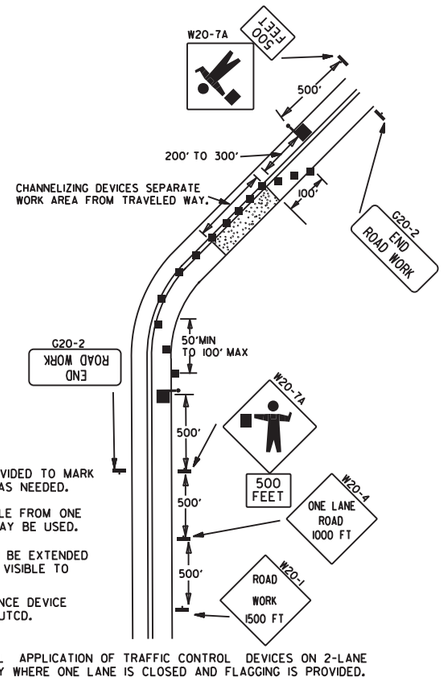
GENERAL NOTES:

1. THE MAINTENANCE DIVISION SHALL CONDUCT A BALL BANK STUDY TO DETERMINE THE ADVISORY SPEED LIMIT PRIOR TO OPENING TO TRAFFIC. THE ADVISORY SPEED WILL BE POSTED ON WI-3 OR WI-4 CURVE WARNING SIGNS. USE WI-4 WHEN SPEED IS GREATER THAN 30MPH AND WI-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 W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE 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(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE 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. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
8. DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR SIMILAR MARKERS MAY BE MADE BY REFERRING TO THE ARDOT QUALIFIED PRODUCTS LIST.
9. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



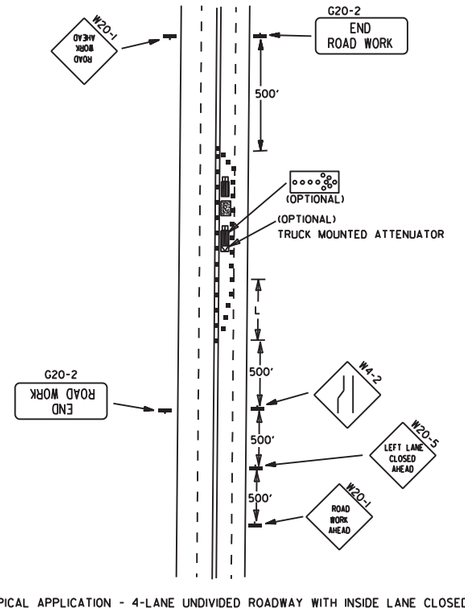
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(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.



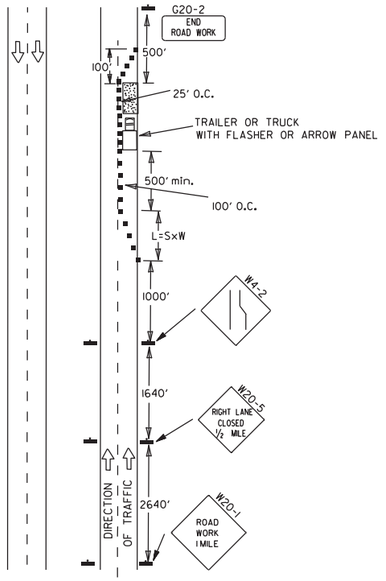
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

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

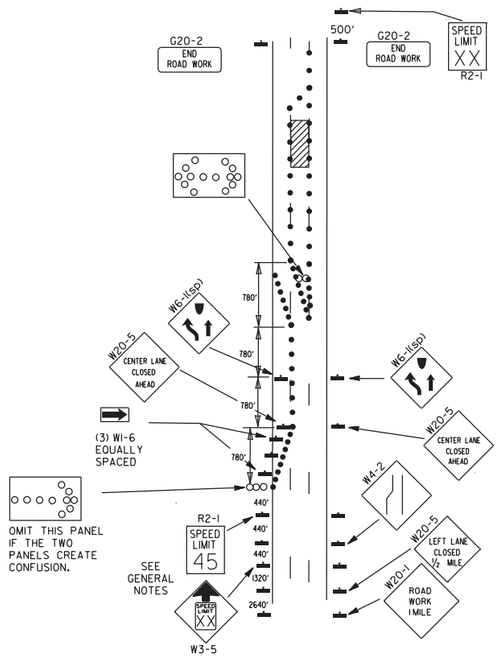
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-2



(A) TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



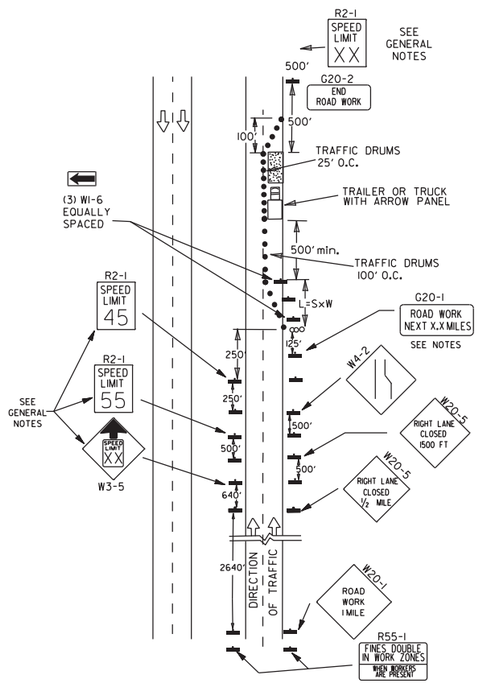
(B) TYPICAL APPLICATION - 3-LANE ONEWAY ROADWAY WHERE CENTER LANE IS CLOSED.

KEY:

- ARROW PANEL (IF REQUIRED)
- ■ CHANNELIZING DEVICE
- ● TRAFFIC DRUM

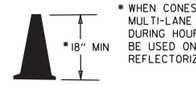
GENERAL NOTES:

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(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-1 45MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE 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(45) SHALL BE OMITTED. ADDITIONAL R2-1 55MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE 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. 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.
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 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. PAYMENT FOR TRAFFIC DRUMS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR VARIOUS TRAILER MOUNTED DEVICES.
11. ALL TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL MEET THE REQUIREMENTS OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).



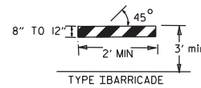
(C) TYPICAL APPLICATION - CONSTRUCTION OPERATIONS OF INTERMEDIATE TO LONG TERM DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.

CHANNELIZING DEVICES

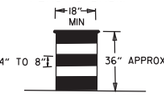


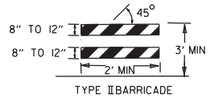
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

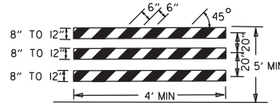
CONES



PLASTIC DRUM

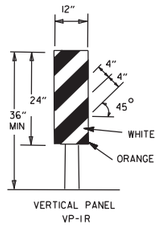






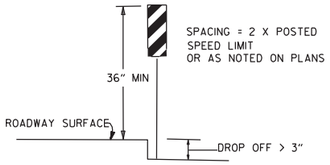
TYPE III BARRICADE

NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.

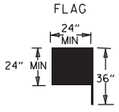


VERTICAL PANEL
VP-1R

VERTICAL PANEL PLACEMENT



FLAG



FLAG SHALL BE OF GOOD GRADE RED MATERIAL

TRAFFIC CONTROL DEVICES

NON-INTERSTATE

VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45MPH	> 45 MPH
≤ 1"	CENTERLINE	W8-11	W8-11
> 1" ≤ 3"	CENTERLINE	W8-11 AND CENTERLINE LANE STRIPING	W8-11 AND CENTERLINE LANE STRIPING
> 3"	CENTERLINE	STANDARD LANE CLOSURE[6]	STANDARD LANE CLOSURE[6]
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9 AND TRAFFIC DRUMS[1]	W8-9 AND TRAFFIC DRUMS[1]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFC DRUMS[1]	W8-17, EDGE LINE STRIPING, AND TRAFFC DRUMS[1]
> 6" ≤ 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFC DRUMS[1]	W8-17, EDGE LINE STRIPING, AND TRAFFC DRUMS[2]
> 18" ≤ 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFC DRUMS[1]	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING AND TRAFFIC DRUMS[2]
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER[3] & EDGE LINES	PRECAST CONCRETE BARRIER[3] & EDGE LINES

INTERSTATE

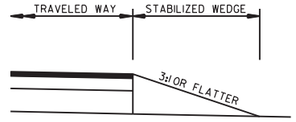
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL
≤ 3"	CENTERLINE	W8-11 AND LANE STRIPING
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND TRAFFC DRUMS[1]
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFC DRUMS[2]
> 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER & EDGE LINES

INTERSTATE AND NON-INTERSTATE

FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

GENERAL NOTES:

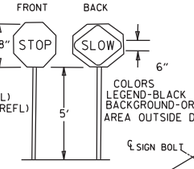
1. WHEN THE SHOULDER AREA IS USED AS PART OF THE TRAVELED LANE AND THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, THEN VERTICAL PANELS SHALL BE USED.
2. WHEN THERE IS INSUFFICIENT WIDTH TO PLACE TRAFFIC DRUMS ON THE REMAINING SHOULDER WIDTH, A STABILIZED WEDGE SHALL BE USED.
3. PRECAST CONCRETE BARRIER WALL CAN BE USED IN LIEU OF A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS, IF AND WHERE DIRECTED BY THE ENGINEER.
4. A STABILIZED WEDGE, W8-17 SIGN, EDGE LINE STRIPING, AND TRAFFIC DRUMS CAN BE USED IN LIEU OF PRECAST CONCRETE BARRIER WALL, IF AND WHERE DIRECTED BY THE ENGINEER.
5. W21-5, W21-5a, AND/OR W21-5b SIGNS SHALL BE USED WHERE THE ROADWAY IS UNOBSTRUCTED IF AND WHERE DIRECTED BY THE ENGINEER.
6. TIME LIMITATIONS MUST CONFORM TO SECTION 603 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).

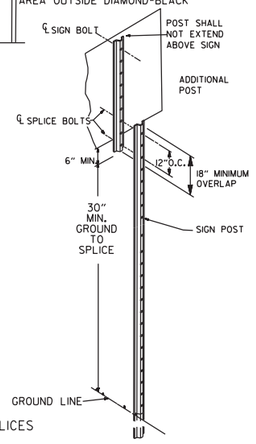


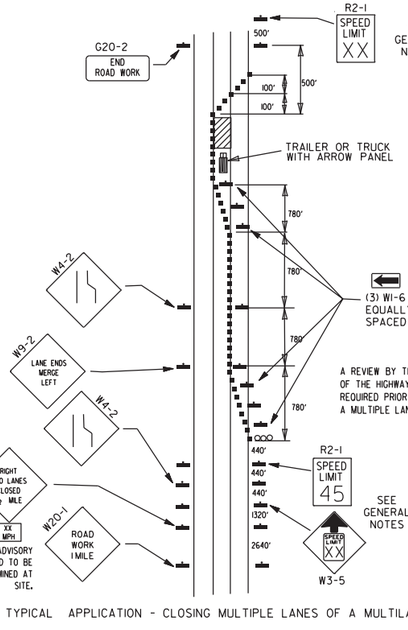
STABILIZED WEDGE

NOTE:
MATERIALS FOR THE STABILIZED WEDGE SHALL MEET THE REQUIREMENTS PROVIDED IN SECTION 603.02 OF THE STANDARD SPECIFICATIONS.

STOP SLOW PADDLE







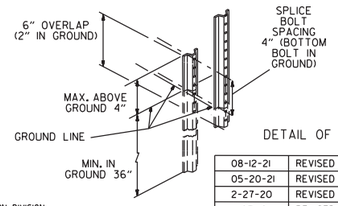
A REVIEW BY THE ROADWAY DESIGN DIVISION OF THE HIGHWAY DEPARTMENT WILL BE REQUIRED PRIOR TO IMPLEMENTING A MULTIPLE LANE CLOSURE.

(D) TYPICAL APPLICATION - CLOSING MULTIPLE LANES OF A MULTILANE HIGHWAY.

NOTES: 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.



DETAIL OF SPLICES

DATE	REVISION	FILMED
08-12-21	REVISED TRAFFIC CONTROL DEVICES AND NOTES	
05-20-21	REVISED NOTE 10	
2-27-20	REVISED TRAFFIC CONTROL DEVICES DETAILS	
11-07-19	REVISED NOTE 9, ADDED NOTE 11	
7-25-19	REVISED TRAFFIC CONTROL DEVICES DETAILS	
9-2-15	REVISED NOTE 2 & REPLACED R2-5A WITH W3-5	
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	

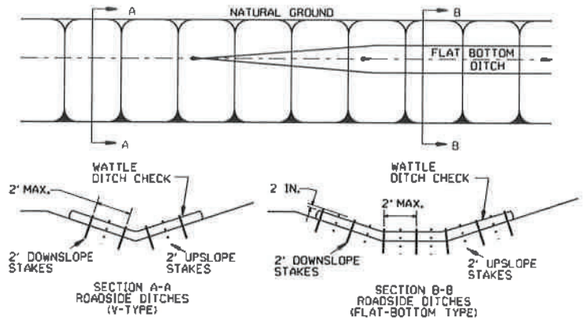
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

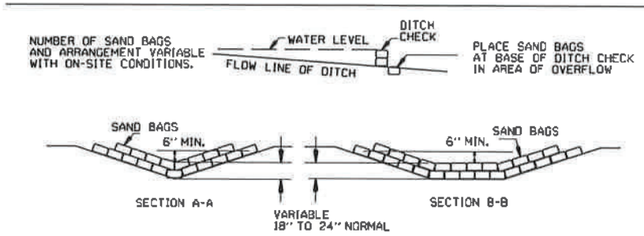
STANDARD DRAWING TC-3

GENERAL NOTES

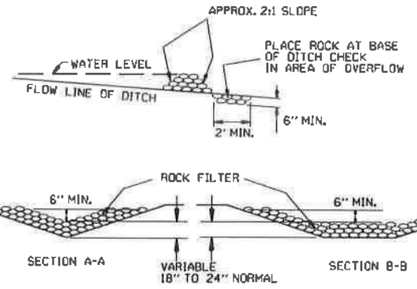
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

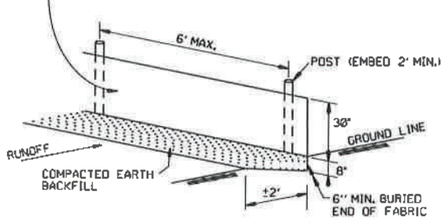


ROCK DITCH CHECK (E-6)

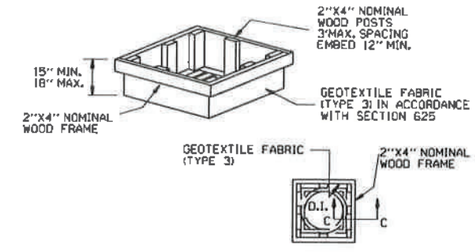
GENERAL NOTES

GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

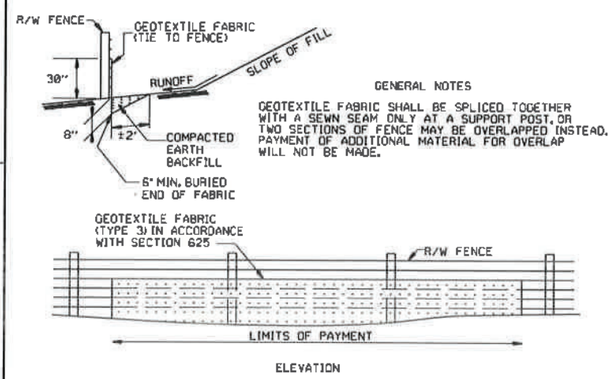
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



SILT FENCE (E-11)



DROP INLET SILT FENCE (E-7)



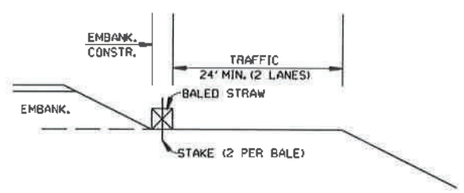
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

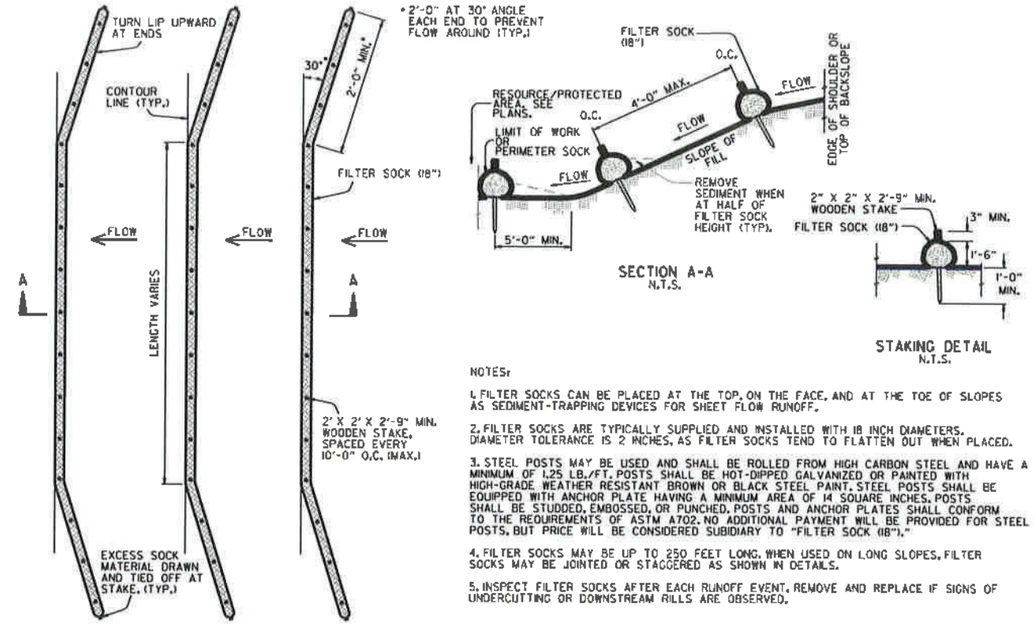
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.



BALED STRAW FILTER BARRIER (E-2)



NOTES:

1. FILTER SOCKS CAN BE PLACED AT THE TOP, ON THE FACE, AND AT THE TOE OF SLOPES AS SEDIMENT-TRAPPING DEVICES FOR SHEET FLOW RUNOFF.

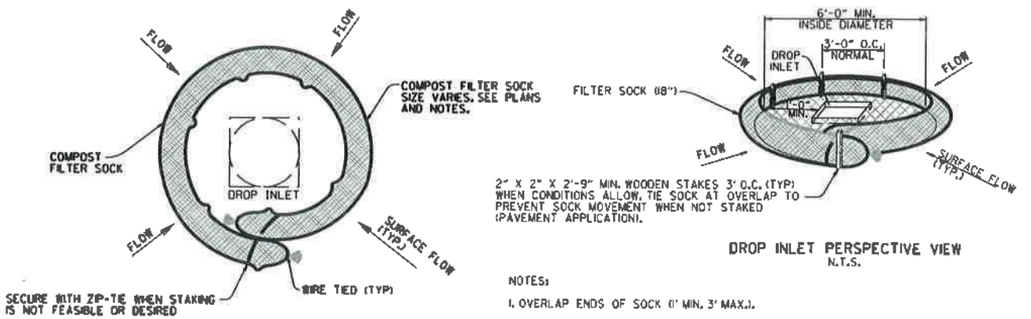
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB./FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH-GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR STEEL POSTS, BUT PRICE WILL BE CONSIDERED SUBIDIARY TO "FILTER SOCK (18")."

4. FILTER SOCKS MAY BE UP TO 250 FEET LONG WHEN USED ON LONG SLOPES. FILTER SOCKS MAY BE JOINTED OR STAGGERED AS SHOWN IN DETAILS.

5. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

FILTER SOCK ALONG SLOPE (E-3)



NOTES:

1. OVERLAP ENDS OF SOCK (1' MIN. 3' MAX.).

2. USE 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

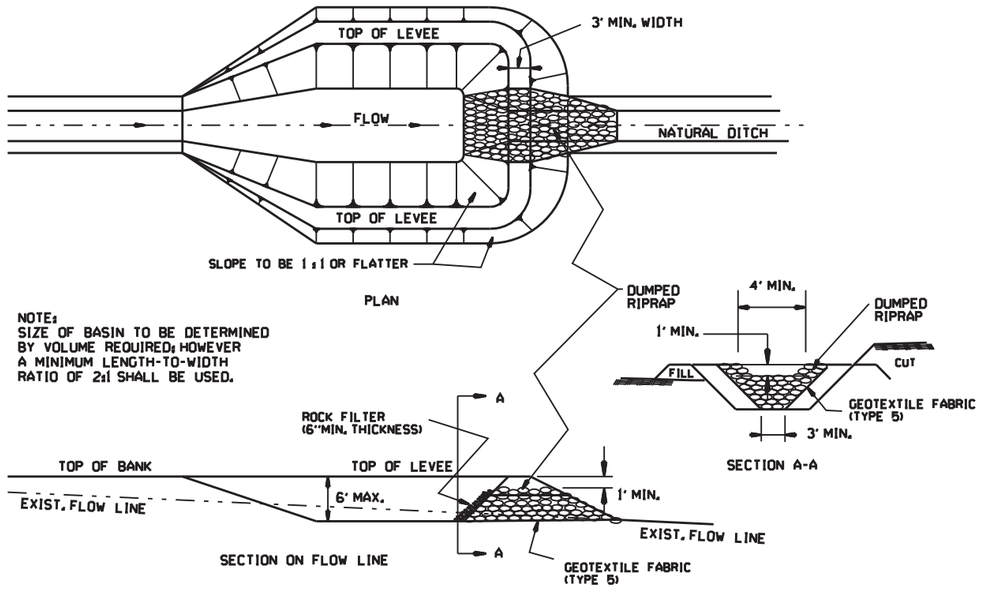
COMPOST FILTER SOCK DROP INLET PROTECTION (E-13)

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

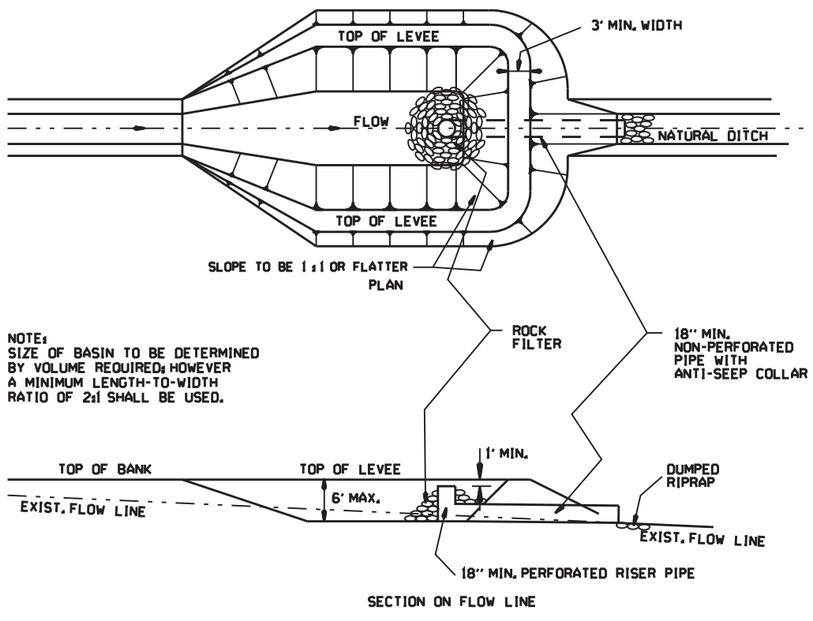
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

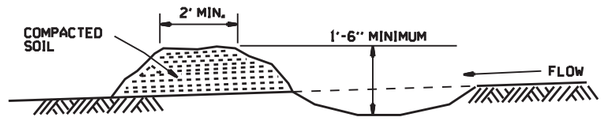
STANDARD DRAWING TEC-1



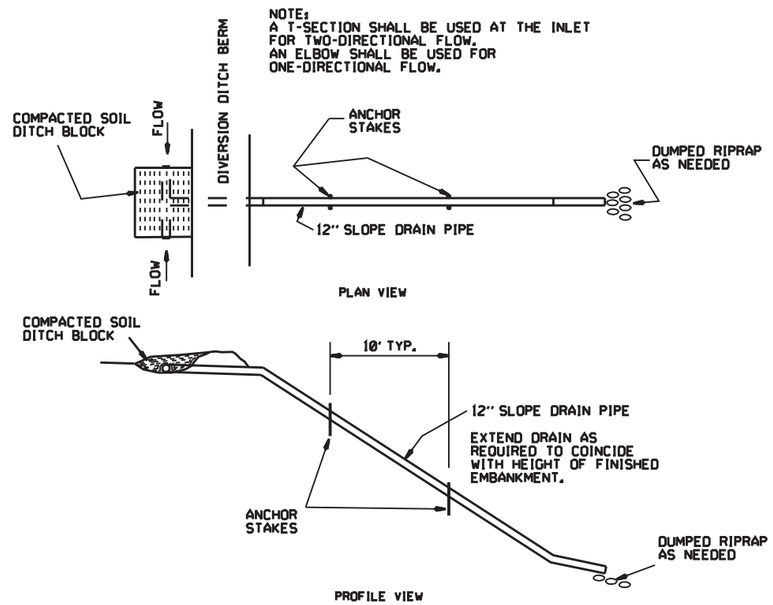
SEDIMENT BASIN WITH RIPRAP OUTLET (E-9)



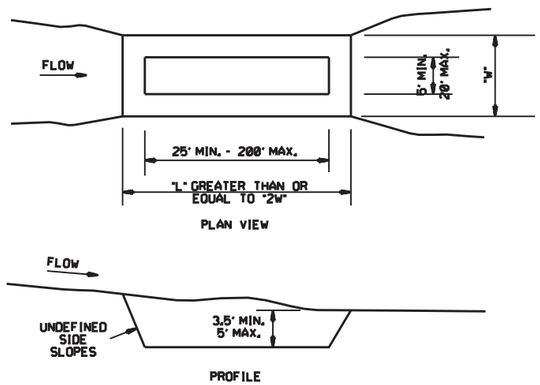
SEDIMENT BASIN WITH PIPE OUTLET (E-10)



DIVERSION DITCH (E-8)



SLOPE DRAIN (E-12)



SEDIMENT BASIN (E-14)

DATE	REVISION	FILMED
6-2-94	Revised E-8 & E-12; Added E-14 & Deleted E-13	
4-1-93	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-2

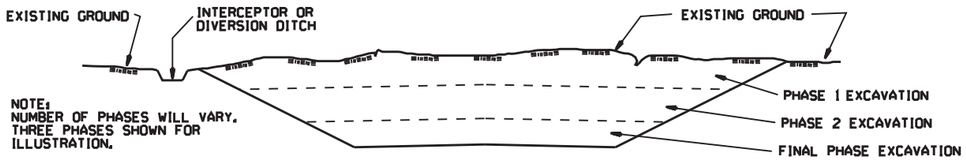
CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)

2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



GENERAL NOTE

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

CONSTRUCTION SEQUENCE

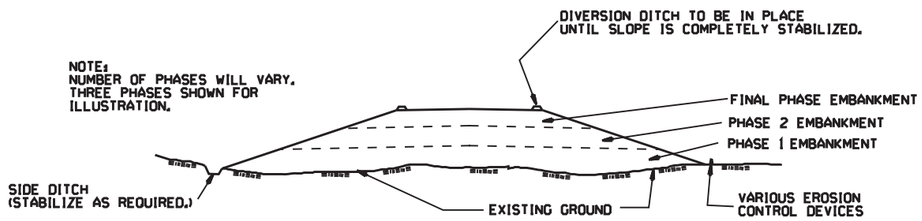
1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.

2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.

3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.

4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

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

CONSTRUCTION SEQUENCE

1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.

2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.

3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.

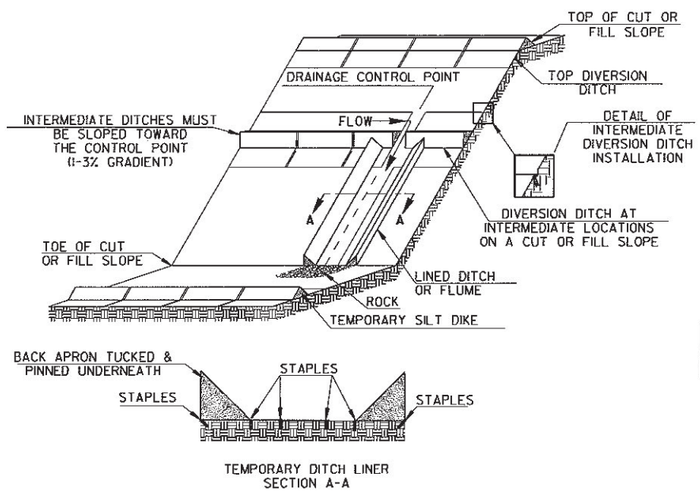
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

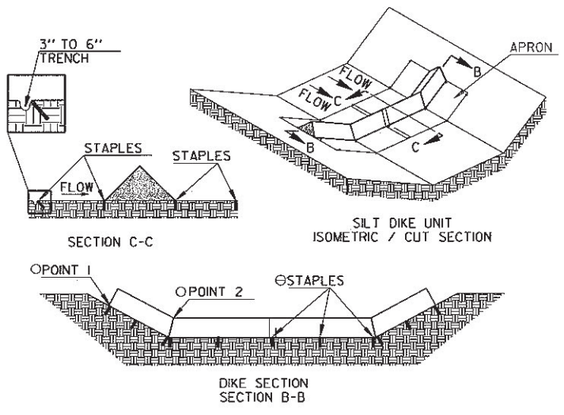
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3



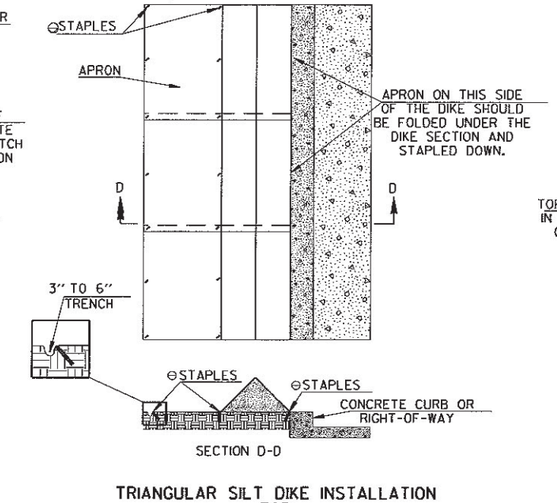
TRIANGULAR SILT DIKE INSTALLATION
FOR
DIVERSION DITCH AND/OR DITCH LINER



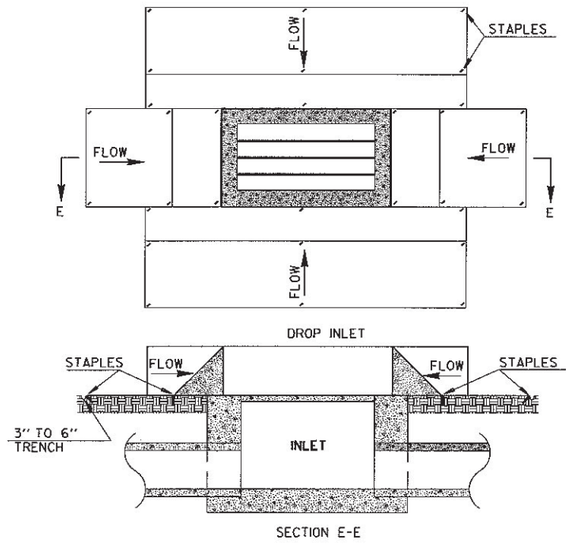
TRIANGULAR SILT DIKE INSTALLATION
FOR
ROADWAY DITCH OR DRAINAGE DITCH

○ POINT "1" MUST BE HIGHER THAN POINT "2" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

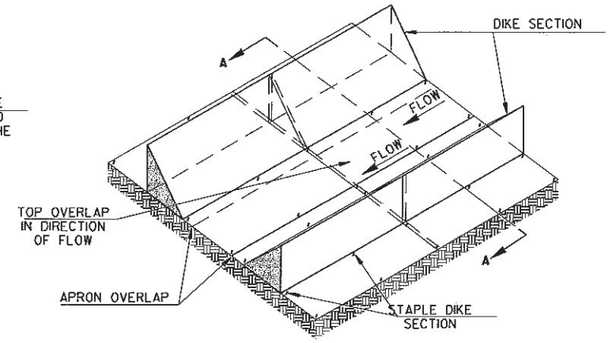
⊖ STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE UNIT AS SHOWN ON THE DIAGRAM.



TRIANGULAR SILT DIKE INSTALLATION
FOR
CONTINUOUS BARRIER



TRIANGULAR SILT DIKE INSTALLATION
FOR
DROP INLETS



TRIANGULAR SILT DIKE INSTALLATION
FOR
TEMPORARY DITCH LINER

GENERAL NOTES

1. THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, AND MAINTAINING THE TRIANGULAR SILT DIKE. THE DIKES SHALL BE USED AS A CONTINUOUS LINE BARRIER AT THE TOE OF SLOPE OR ACROSS THE ROADWAY DITCH TO CONTAIN SEDIMENT AND MINIMIZE EROSION, OR AS DIRECTED BY THE ENGINEER. THESE DIKES SHALL BE INSTALLED AND LOCATED AS SOON AS CONSTRUCTION WILL ALLOW OR AS DIRECTED BY THE ENGINEER.

2. TRIANGULAR SILT DIKE SHALL BE TRIANGULAR SHAPED HAVING A HEIGHT OF AT LEAST 8" TO 10" IN THE CENTER WITH EQUAL SIDES AND A 16" TO 20" BASE. THE TRIANGULAR SHAPED INNER MATERIAL SHALL BE URETHANE FOAM. THE OUTER COVER SHALL BE A WOVEN GEOTEXTILE FABRIC PLACED AROUND THE INNER MATERIAL & ALLOWED TO EXTEND BEYOND BOTH SIDES OF THE TRIANGLE 24" TO 36". THIS FABRIC SHOULD BE MILDEW RESISTANT, ROT-PROOF AND RESISTANT TO HEAT AND ULTRAVIOLET RADIATION MEETING REQUIREMENTS FOR SEDIMENT CONTROL IN AASHTO M288. THE DIKES SHALL BE ATTACHED TO THE GROUND WITH WIRE STAPLES. THE STAPLES SHALL BE NO. 11 GAUGE WIRE AND BE AT LEAST 6" TO 8" LONG. STAPLES SHALL BE PLACED AS SHOWN ON THESE DETAILS.

   THE CONTRACTOR SHALL INSPECT ALL DIKES AFTER EACH RAINFALL EVENT OF AT LEAST 0.5" OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR. ACCUMULATED SILT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE DIKES ARE DAMAGED OR INADVERTENTLY MOVED DURING THE SILT REMOVAL PROCESS, THE CONTRACTOR SHALL IMMEDIATELY REPLACE AFTER DAMAGE OCCURS.

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

SYMBOLOGY
SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

NOTE: SILT DIKE SHOULD ONLY BE USED FOR DROP INLETS IN SUMP LOCATIONS.

DATE	REVISION	FILMED
7-26-12	REVISED GENERAL NOTE 2.	
12-15-11	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-4