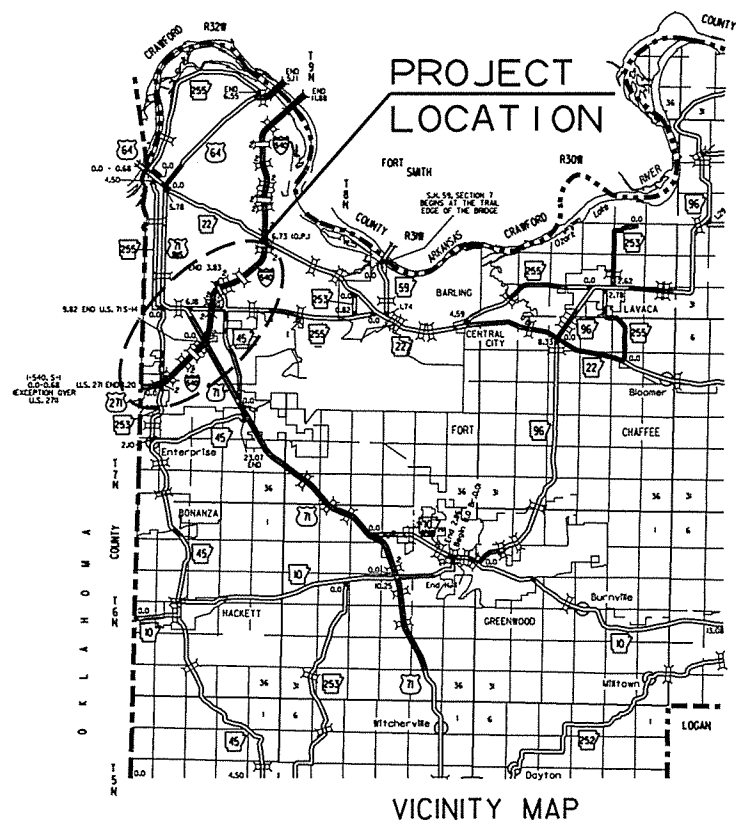


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0405		1	29
				(2) OKLAHOMA STATE LINE-HWY. 71(S)				



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

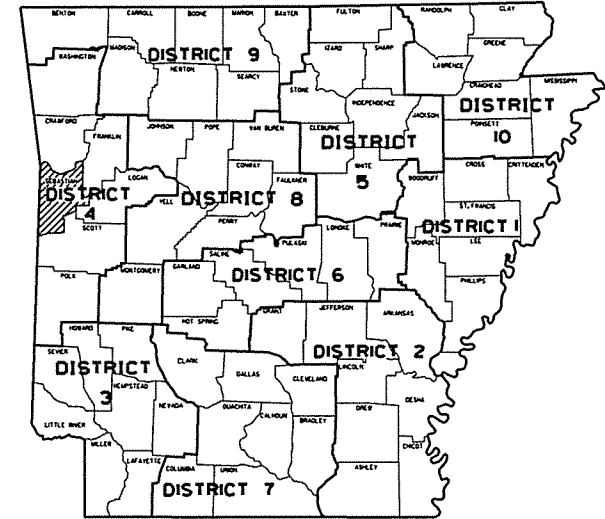
OKLAHOMA STATE LINE- HWY. 71 (S)

SEBASTIAN COUNTY

ROUTES 271 & 540 SECTIONS 1 & 1

JOB NO. BB0405

FED. AID PROJ. BIM-B540(201)
 & NHPP-9150(28)



ARK. HWY. DIST. NO. 4

**EXCEPTIONS TO JOB NO. BB0405
(BRIDGES)**

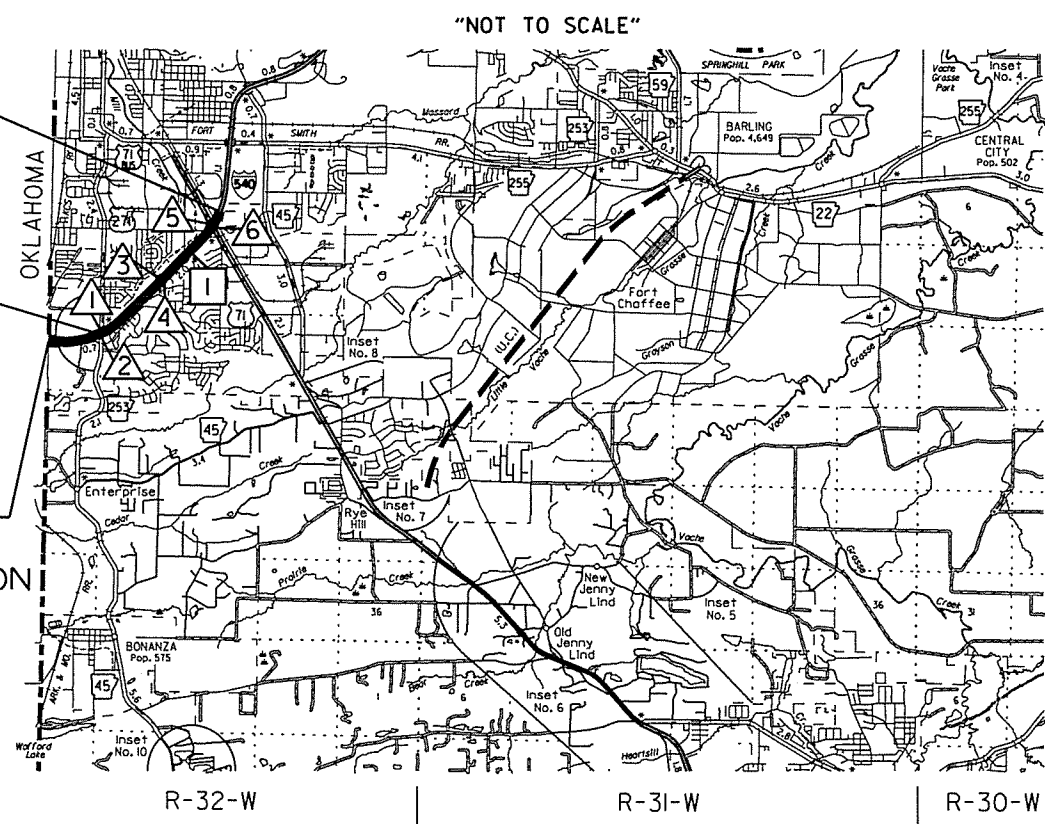
- ▲ STA. 34+50.24 BR. END 185.58' BRIDGE NO. 5103B 41'-6" CLEAR ROADWAY STA. 36+35.82 BR. END
- ▲ STA. 34+73.13 BR. END 185.58' BRIDGE NO. 5103A 41'-6" CLEAR ROADWAY STA. 36+58.71 BR. END
- ▲ STA. 87+66.28 BR. END 78.09' BRIDGE NO. 5629A 41'-6" CLEAR ROADWAY STA. 88+44.37 BR. END
- ▲ STA. 87+66.28 BR. END 78.09' BRIDGE NO. 5629B 41'-6" CLEAR ROADWAY STA. 88+44.37 BR. END
- ▲ STA. 135+47.18 BR. END 347.38' BRIDGE NO. 5102B 41'-6" CLEAR ROADWAY STA. 138+94.56 BR. END
- ▲ STA. 135+69.42 BR. END 347.39' BRIDGE NO. 5102A 41'-6" CLEAR ROADWAY STA. 139+16.81 BR. END

- STA. 145+38.52
END JOB BB0405
END I-540 SECTION
LOG MILE 2.75
- STA. 34+50.24
END HWY. 271 SECTION
BEGIN I-540 SECTION
LOG MILE 0.65
- STA. 0+05.00
BEGIN JOB BB0405
BEGIN HWY. 271 SECTION
LOG MILE 3.20

TOTAL LENGTH OF EXCEPTIONS
611.05' MEASURED ALONG CENTERLINE

STRUCTURES OVER 20'-0" SPAN

- STA. 125+62 IN PLACE TRIPLE 7' X 4' X 311' R.C. BOX CULV'T 10'42" LT. FWD. SKEW WITH TYPE A DROP INLET 2.7' LT. RETAIN



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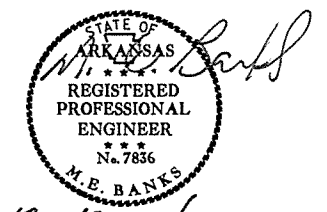


BEGINNING OF PROJECT	MID POINT OF PROJECT	END OF PROJECT
LATITUDE = N 35°17'31"	LATITUDE = N 35°17'59"	LATITUDE = N 35°18'51"
LONGITUDE = W 94°26'06"	LONGITUDE = W 94°24'51"	LONGITUDE = W 94°23'52"

LENGTH OF PROJECT CALCULATED ALONG C.L.

GROSS LENGTH OF PROJECT	14533.52	FEET OR	2.753	MILES
NET " " ROADWAY	13922.47	" "	2.637	"
NET " " BRIDGES	0.00	" "	0.000	"
NET " " PROJECT	13922.47	" "	2.637	"

APPROVED



12-19-14
 DEPUTY DIRECTOR
 AND CHIEF ENGINEER

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1-15-15				6	ARK.			
						JOB NO. BB0405	2	29

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

INDEX OF SHEETS

SHEET NO.	TITLE	DRWG. NO.	DATE
1	TITLE SHEET		
2	INDEX OF SHEETS, GOVERNING SPECIFICATIONS, AND GENERAL NOTES		
3 - 4	TYPICAL SECTIONS OF IMPROVEMENT		
5 - 9	SPECIAL DETAILS		
10 - 13	MAINTENANCE OF TRAFFIC		
14 - 17	QUANTITIES		
18	SUMMARY OF QUANTITIES AND REVISIONS		
19 - 23	PLAN SHEETS		
24	PAVEMENT MARKING DETAILS	PM-1	9-12-13
25	PERMANENT PAVEMENT MARKING ON ACCESS CONTROLLED ROADWAYS	PM-2	9-12-13
26	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-1	12-15-11
27	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-2	9-12-13
28	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	TC-3	10-15-09
29	DETAILS OF STANDARD TURNOUT FOR ENTRANCE & EXIT RAMP (NON-REINFORCED)	TR-1A	8-22-02

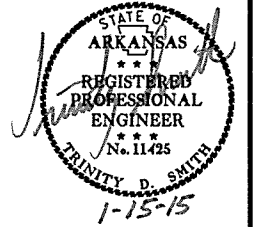
GENERAL NOTES

- 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.

GOVERNING SPECIFICATIONS

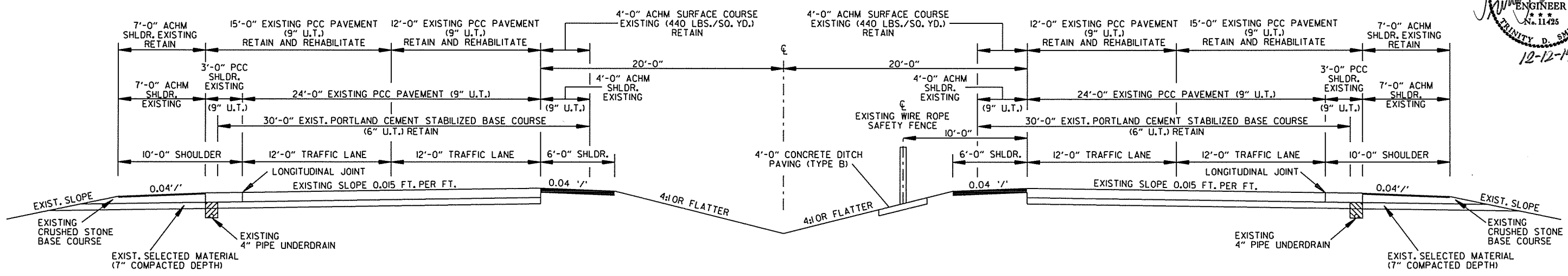
ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

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
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB BB0405	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB BB0405	EMPLOYMENT REPORTING
JOB BB0405	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB BB0405	HIGH PERFORMANCE PAVEMENT MARKING
JOB BB0405	MAINTENANCE OF TRAFFIC
JOB BB0405	MANDATORY USE OF INTERNET BIDDING
JOB BB0405	NESTING SITES OF MIGRATORY BIRDS
JOB BB0405	OFF-SITE RESTRAINING CONDITIONS FOR AMERICAN BURYING BEETLE
JOB BB0405	PARTNERING REQUIREMENTS
JOB BB0405	REMOVAL AND DISPOSAL OF PORTLAND CEMENT CONCRETE PAVEMENT GRINDING RESIDUE
JOB BB0405	SEQUENCE OF CONSTRUCTION
JOB BB0405	SITE USE (A + C METHOD)
JOB BB0405	TEMPORARY PORTABLE RUMBLE STRIPS
JOB BB0405	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB BB0405	UTILITY ADJUSTMENTS
JOB BB0405	VALUE ENGINEERING
JOB BB0405	VERY EARLY STRENGTH CONCRETE

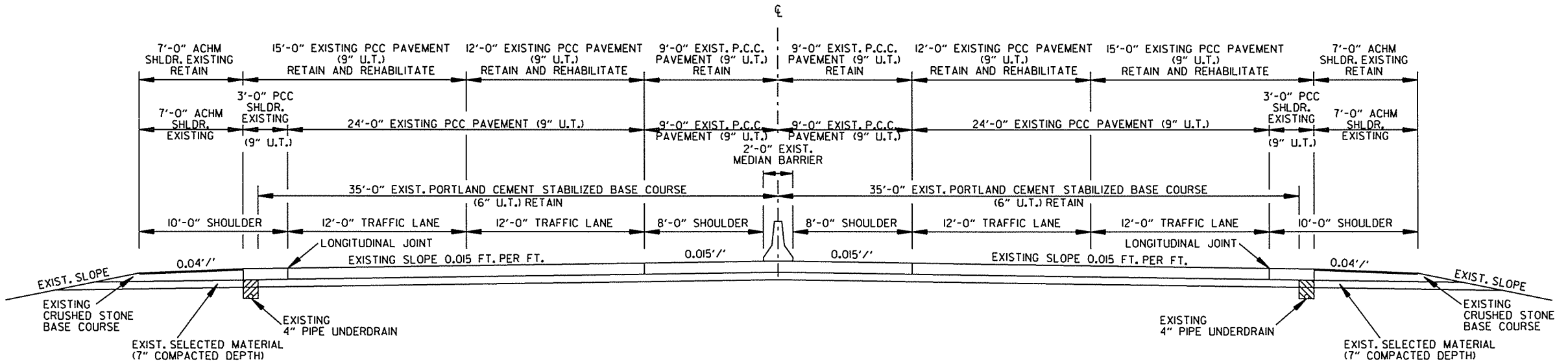


DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						BBO405	3	29

2 TYPICAL SECTIONS OF IMPROVEMENT



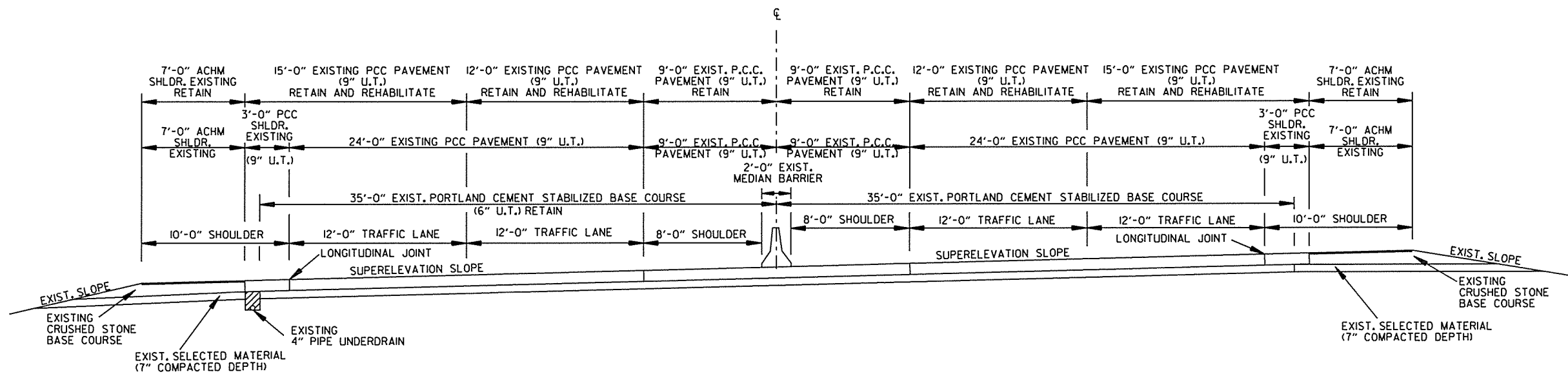
PCC PAVEMENT REHABILITATION - DEPRESSED MEDIAN



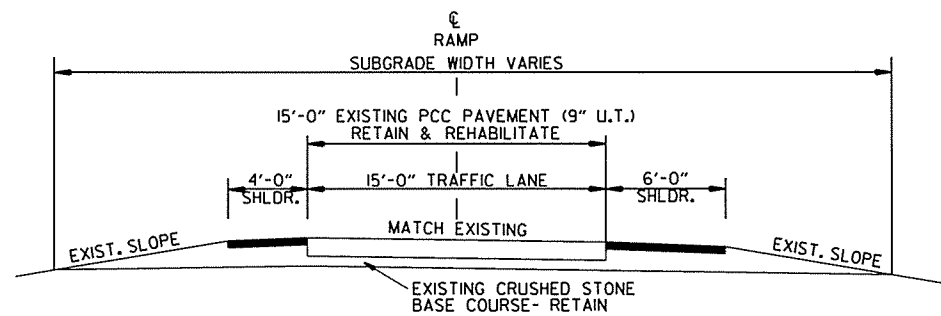
PCC PAVEMENT REHABILITATION - CONCRETE BARRIER WALL

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		4	29
				JOB NO.	BB0405			

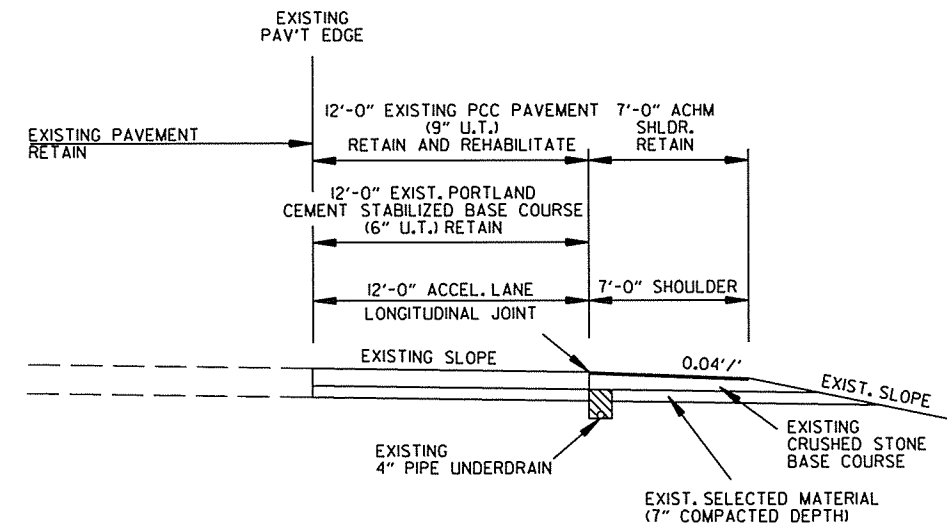
2 TYPICAL SECTIONS OF IMPROVEMENT



PCC PAVEMENT REHABILITATION - CONCRETE BARRIER WALL (SUPERELEVATION)



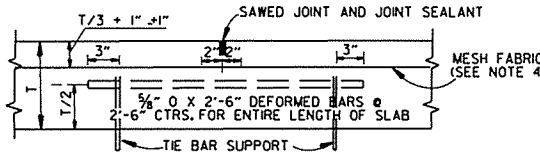
TYPICAL RAMP - PAVEMENT REHABILITATION
(SHOWN IN DIRECTION OF TRAFFIC)



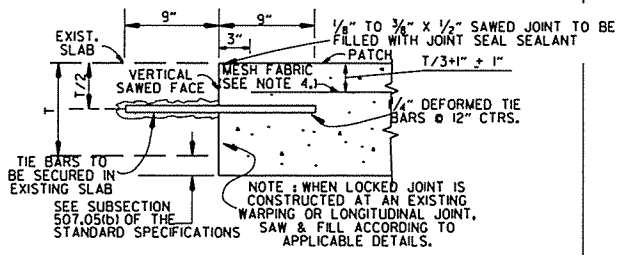
PCC PAVEMENT REHABILITATION - ACCELERATION LANE
(SHOWN IN DIRECTION OF TRAFFIC)

TYPICAL SECTIONS OF IMPROVEMENT

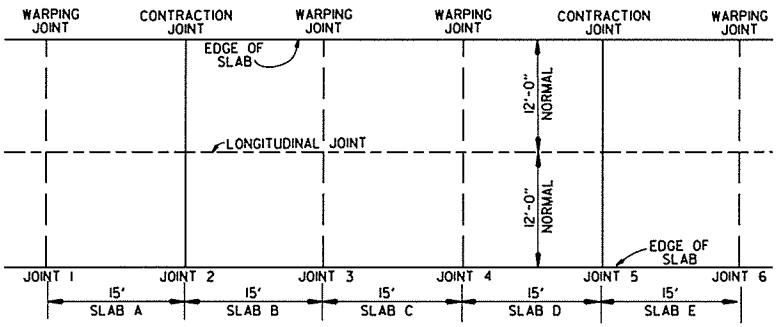
2 SPECIAL DETAILS



SECTION A-A
TIED LONGITUDINAL JOINT



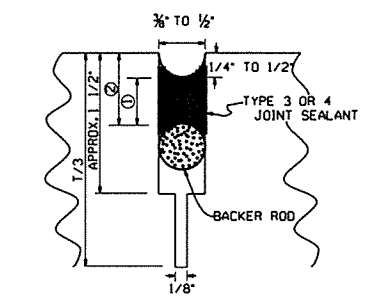
SECTION D-D
LOCKED JOINT



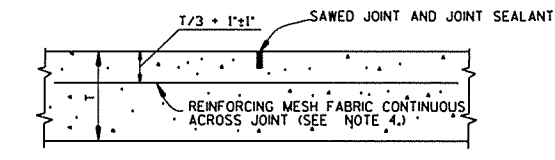
PLAN OF PAVEMENT REPAIR
(FULL SLABS)

TYPICAL SLAB REPLACEMENT EXAMPLES

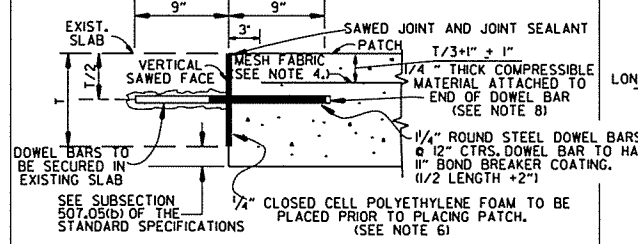
SLAB(S) TO BE RECONSTRUCTED	TYPE OF JOINT TO BE CONSTRUCTED					
	JOINT 1	JOINT 2	JOINT 3	JOINT 4	JOINT 5	JOINT 6
A OR D	LOCKED	FREE	LOCKED	LOCKED	FREE	LOCKED
B OR E	FREE	LOCKED	LOCKED	LOCKED	CONTRACTION	LOCKED
A & B OR D & E	LOCKED	CONTRACTION	FREE	LOCKED	CONTRACTION	LOCKED
B, C & D	FREE	FREE	WARPIING	WARPIING	FREE	FREE
C			LOCKED	LOCKED		



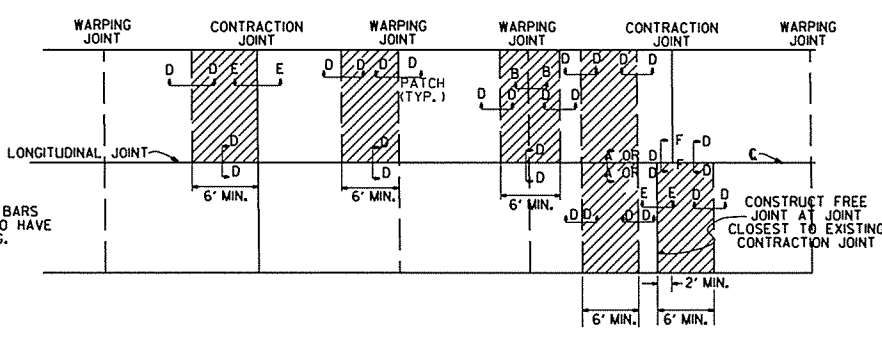
DETAIL OF SAWED CONTRACTION JOINT



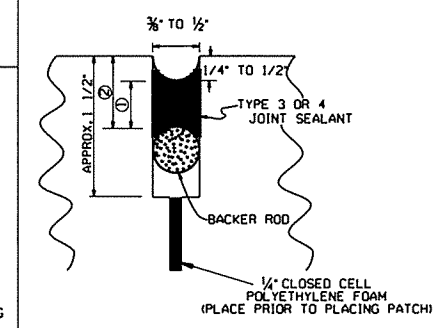
SECTION B-B
WARPIING JOINT



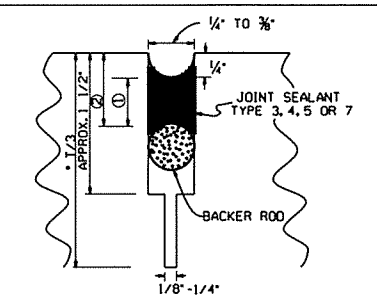
SECTION E-E
FREE TRANSVERSE JOINT



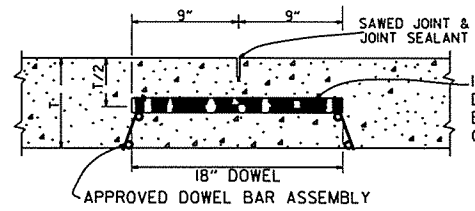
PLAN OF PAVEMENT REPAIR
(PARTIAL SLABS)



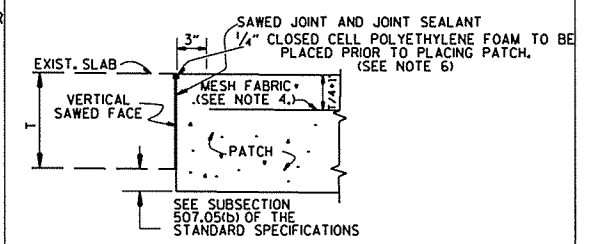
DETAIL OF SAWED FREE TRANSVERSE &
FREE LONGITUDINAL JOINT



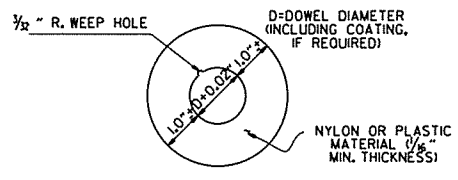
DETAIL OF SAWED TIED LONGITUDINAL JOINT
AND WARPIING JOINT



SECTION C-C
CONTRACTION JOINT DETAILS



SECTION F-F
FREE LONGITUDINAL JOINT



DETAIL OF EPOXY
RETENTION DISK

NOTE: EPOXY RETENTION DISK SHALL BE SLIPPED TIGHTLY OVER TIE BARS AND FIRMLY AGAINST THE SLAB FACE AFTER INSERTING TIE BAR AND EPOXY INTO HOLE

JOINT CONFIGURATION FOR TYPE 3 OR 4 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/4	3/8	1/2
3/8	1/4	1/2	1/2
1/2	1/4	5/8	1/2

JOINT CONFIGURATION FOR TYPE 5 OR 7 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/2	3/8	3/4
3/8	3/4	1/2	1

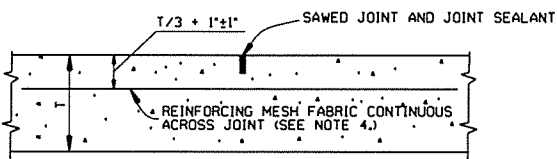
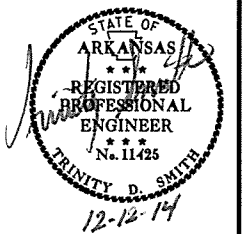
DETAILS OF PORTLAND CEMENT CONCRETE PAVEMENT PATCHING (MAIN LANES)

NOTES FOR PAVEMENT REPAIR

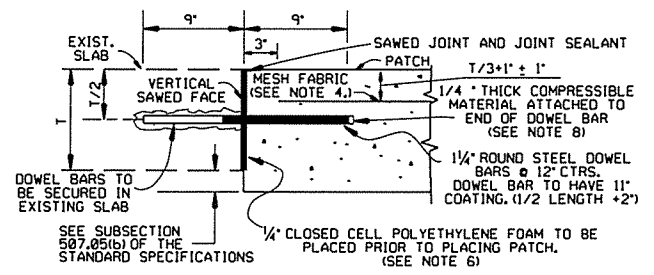
- EXACT SIZE AND LOCATION OF AREA TO BE REPAIRED SHALL BE DETERMINED BY THE ENGINEER. ALL PATCHES SHALL EXTEND ACROSS THE FULL WIDTH OF THE SLAB AS SHOWN IN THESE DETAILS.
- THE FINAL SURFACE FINISH FOR PATCHES SHALL MATCH THAT OF THE EXISTING PAVEMENT.
- WHEN AREA TO BE REPAIRED INCLUDES AN EXISTING JOINT, THE JOINT SHALL BE RECONSTRUCTED TO THE CONFIGURATION SHOWN IN THESE DETAILS.
- ALL REPAIRED AREAS SHALL BE REINFORCED WITH MESH FABRIC AS SHOWN. DEPTH OF MESH PLACEMENT SHALL HAVE A TOLERANCE OF +1 INCH. MESH FABRIC SHALL BE 12" x 12" - W4 x W4 WELDED WIRE FABRIC (MINIMUM WIRE SIZE). LAPS SHALL BE MINIMUM 6" IN EACH DIRECTION.
- FORMS FOR PAVEMENT REPAIR SHALL BE METAL UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CLOSED CELL POLYETHYLENE FOAM SHALL BE SECURED TO SAWED FACE OF EXISTING P.C.C. PAVEMENT WITH ADHESIVE OR ADHESIVE TAPE AS APPROVED BY THE ENGINEER AND TRIMMED FLUSH WITH TOP OF EXISTING SLAB TO PREVENT DISPLACEMENT WHEN THE PATCH IS BEING PLACED.
- WHEN THE PATCH IS PLACED OVER GRANULAR BASE, REMOVE ANY LOOSE BASE MATERIAL, COMPACT REMAINING BASE AS NECESSARY AND PLACE PATCH. WHEN PATCH IS PLACED OVER TREATED BASE, REMOVE ANY LOOSE BASE MATERIAL AND PLACE PATCH.
- 1/4" THICK COMPRESSIBLE MATERIAL SHALL BE ATTACHED TO THE ENDS OF DOWEL BARS AT ALL FREE TRANSVERSE JOINTS (SEE SECTION E-E). THE MATERIAL SHALL BE THE SAME DIAMETER AS THE DOWEL BAR. A PLASTIC CAP OR OTHER TYPE OF DEVICE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- DOWEL BARS SHALL BE PLACED IN ACCORDANCE WITH THE DIMENSIONS SHOWN. A TOLERANCE OF PLUS OR MINUS 1" WILL BE ALLOWED FOR VERTICAL AND LATERAL PLACEMENT AND A TOLERANCE OF PLUS OR MINUS 1/4" WILL BE ALLOWED FOR THE TILT AND SKEW.

SPECIAL DETAILS

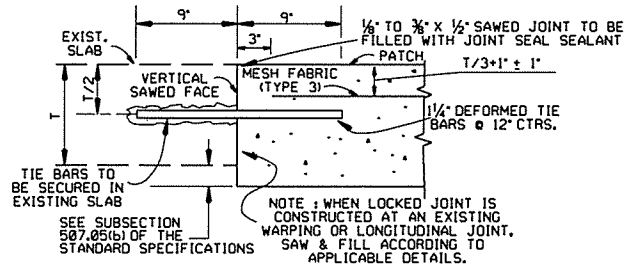
2 SPECIAL DETAILS



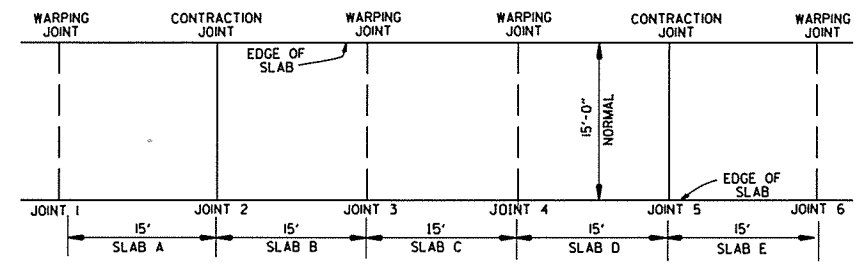
SECTION B-B
WARPING JOINT



SECTION E-E
FREE TRANSVERSE JOINT



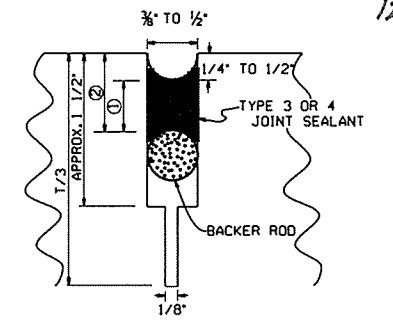
SECTION D-D



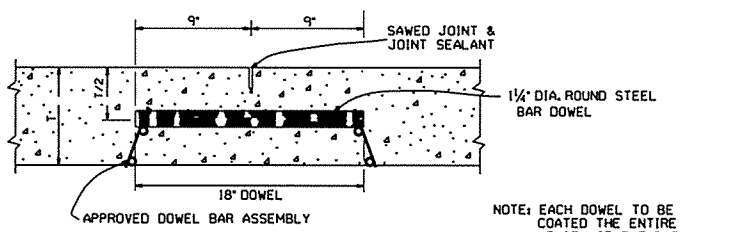
PLAN OF PAVEMENT REPAIR
(FULL SLABS)

TYPICAL SLAB REPLACEMENT EXAMPLES

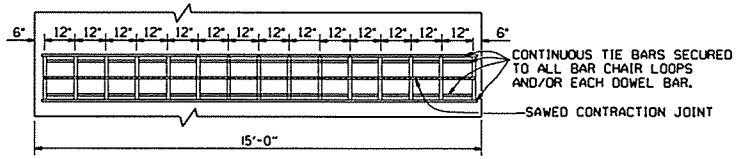
SLAB(S) TO BE RECONSTRUCTED	TYPE OF JOINT TO BE CONSTRUCTED					
	JOINT 1	JOINT 2	JOINT 3	JOINT 4	JOINT 5	JOINT 6
A OR D	LOCKED	FREE	LOCKED	LOCKED	FREE	LOCKED
B OR E	LOCKED	FREE	LOCKED	LOCKED	FREE	LOCKED
A & B OR D & E	LOCKED	CONTRACTION	LOCKED	LOCKED	CONTRACTION	LOCKED
B & C	FREE	FREE	WARPING	LOCKED	FREE	FREE
B, C & D	FREE	FREE	WARPING	WARPING	FREE	FREE
C	FREE	FREE	LOCKED	LOCKED	FREE	FREE



DETAIL OF SAWED CONTRACTION JOINT



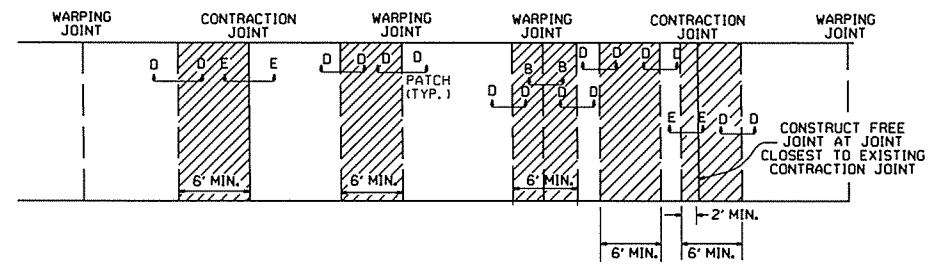
SECTION C-C



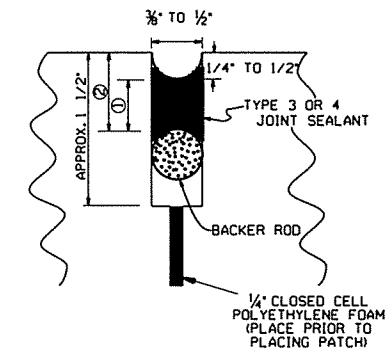
15' PAVEMENT
15 DOWELS
PLAN - CONTRACTION JOINT

NOTE: FOR 15' PAVEMENT USE 15 DOWELS @ 12" CTRS. WITH 6" SPACING FROM C.L. AND EDGE OF SLAB TO FIRST BAR. FOR PAVEMENT WIDTHS OTHER THAN THOSE SHOWN ABOVE, USE DOWELS AT 12" CTRS. WITH 6" MAX. SPACING FROM C.L. TO FIRST BAR. DISTANCE FROM EDGE OF SLAB TO FIRST BAR SHALL BE ADJUSTED TO MAINTAIN 12" DOWEL BAR SPACING.

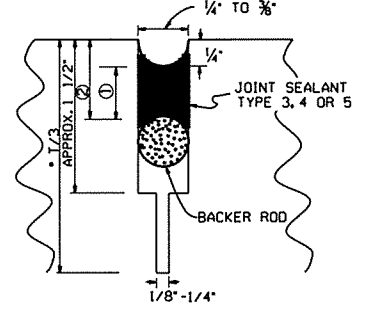
CONTRACTION JOINT DETAILS



PLAN OF PAVEMENT REPAIR
(PARTIAL SLABS)

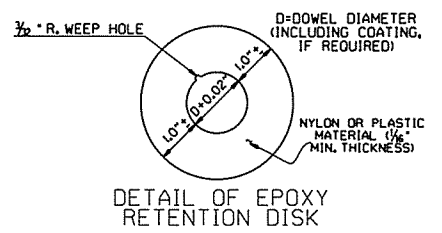


DETAIL OF SAWED FREE TRANSVERSE JOINT



NOTE: T/3 SAW CUT NOT REQUIRED FOR LONGITUDINAL CONSTRUCTION JOINT.

DETAIL OF SAWED WARPING JOINT



DETAIL OF EPOXY RETENTION DISK

NOTE: EPOXY RETENTION DISK SHALL BE SLIPPED TIGHTLY OVER TIE BARS AND FIRMLY AGAINST THE SLAB FACE AFTER INSERTING TIE BAR AND EPOXY INTO HOLE.

JOINT CONFIGURATION FOR TYPE 3 OR 4 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/4	3/8	1/2
3/8	1/4	1/2	1/2
1/2	1/4	5/8	1/2

JOINT CONFIGURATION FOR TYPE 5 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/2	3/8	3/4
3/8	3/4	1/2	1

DETAILS OF PORTLAND CEMENT CONCRETE PAVEMENT PATCHING (RAMPS)

NOTES FOR PAVEMENT REPAIR

- EXACT SIZE AND LOCATION OF AREA TO BE REPAIRED SHALL BE DETERMINED BY THE ENGINEER. ALL PATCHES SHALL EXTEND ACROSS THE FULL WIDTH OF THE SLAB AS SHOWN IN THESE DETAILS.
- THE FINAL SURFACE FINISH FOR PATCHES SHALL MATCH THAT OF THE EXISTING PAVEMENT.
- WHEN AREA TO BE REPAIRED INCLUDES AN EXISTING JOINT, THE JOINT SHALL BE RECONSTRUCTED TO THE CONFIGURATION SHOWN IN THESE DETAILS.
- ALL REPAIRED AREAS SHALL BE REINFORCED WITH MESH FABRIC AS SHOWN. DEPTH OF MESH PLACEMENT SHALL HAVE A TOLERANCE OF +1 INCH. MESH FABRIC SHALL BE 12 x 12 - W4 x W4 WELDED WIRE FABRIC (MINIMUM WIRE SIZE). LAPS SHALL BE MINIMUM 6" IN EACH DIRECTION. MINIMUM COVER AT EDGES SHALL BE 2".
- FORMS FOR PAVEMENT REPAIR SHALL BE METAL UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CLOSED CELL POLYETHYLENE FOAM SHALL BE SECURED TO SAWED FACE OF EXISTING P.C.C. PAVEMENT WITH ADHESIVE OR ADHESIVE TAPE AS APPROVED BY THE ENGINEER AND TRIMMED FLUSH WITH TOP OF EXISTING SLAB TO PREVENT DISPLACEMENT WHEN THE PATCH IS BEING PLACED.
- WHEN THE PATCH IS PLACED OVER GRANULAR BASE, REMOVE ANY LOOSE BASE MATERIAL, COMPACT REMAINING BASE AS NECESSARY AND PLACE PATCH. WHEN PATCH IS PLACED OVER TREATED BASE, REMOVE ANY LOOSE BASE MATERIAL AND PLACE PATCH.
- 1/4" THICK COMPRESSIBLE MATERIAL SHALL BE ATTACHED TO THE ENDS OF DOWEL BARS AT ALL FREE TRANSVERSE JOINTS (SEE SECTION E-E). THE MATERIAL SHALL BE THE SAME DIAMETER AS THE DOWEL BAR. A PLASTIC CAP OR OTHER TYPE OF DEVICE MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- DOWEL BARS SHALL BE PLACED IN ACCORDANCE WITH THE DIMENSIONS SHOWN. A TOLERANCE OF PLUS OR MINUS ONE INCH WILL BE ALLOWED FOR VERTICAL AND LATERAL PLACEMENT AND A TOLERANCE OF PLUS OR MINUS 1/4" WILL BE ALLOWED FOR THE TILT AND SKEW.

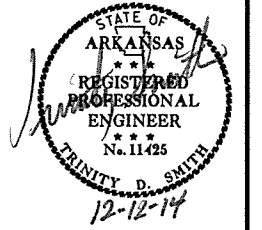
SPECIAL DETAILS

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BB0405.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BBO405		7	29

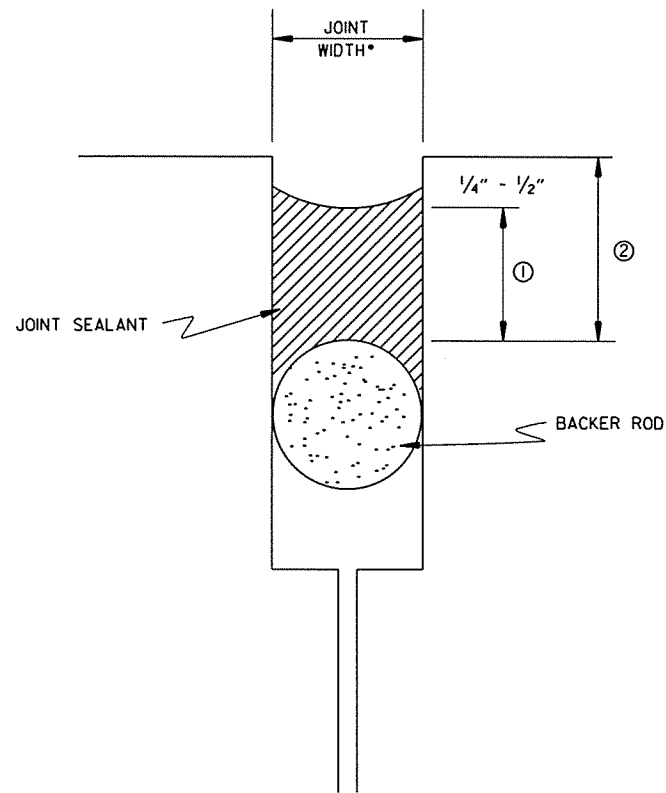
② SPECIAL DETAILS



JOINT CONFIGURATION FOR TYPE 3 & 4 JOINT SEALANT

JOINT WIDTH	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES			
1/4	1/4	3/8	1/2
3/8	1/4	1/2	1/2
1/2	1/4	5/8	1/2
5/8	3/16	3/4	9/16
3/4	3/8	7/8	7/8
7/8	1/16	1	11/16
1	1/2	1 1/4	3/4
1 TO 1 1/2	1/2	1 1/4 +	3/4

NOTE: JOINTS GREATER THAN 1/2" IN WIDTH SHALL BE SEALED WITH TYPE 5 JOINT SEALANT.

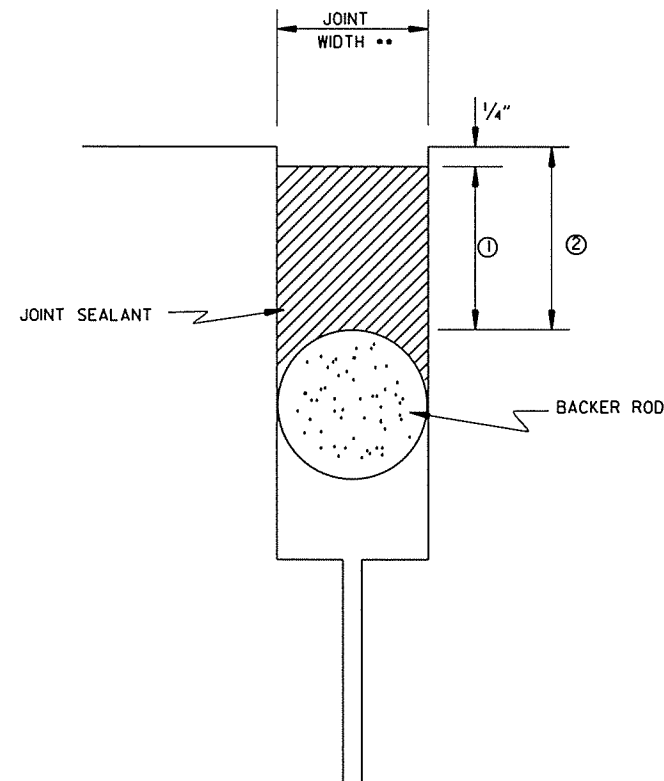


DETAILS OF TYPE A OR TYPE B JOINT REHABILITATION

- CONTRACTION JOINTS SHALL BE SAWED TO MIN. WIDTH OF 3/8".
- WARPING & LONGITUDINAL JOINTS SHALL BE SAWED TO MIN. WIDTH OF EXISTING WIDTH + 1/8" (1/16" ON EACH SIDE).

JOINT CONFIGURATION FOR TYPE 5 JOINT SEALANT

JOINT WIDTH	APPROX. WIDTH TO DEPTH RATIO	SEALANT THICKNESS ①	BACKER ROD DIAMETER	BACKER ROD PLACEMENT DEPTH ②
INCHES				
1/4	1:2	1/2	3/8	3/4
3/8		3/4	1/2	1
1/2		1	5/8	1 1/4
5/8	1:1.75	1 1/4	3/4	1 1/2
3/4		1 3/8	7/8	1 5/8
7/8		1 1/2	1	1 3/4
1	1:1.6	1 5/8	1 1/4	1 7/8
1 TO 3		1 5/8 +	1 1/4 +	1 7/8 +



DETAILS OF TYPE B JOINT REHABILITATION

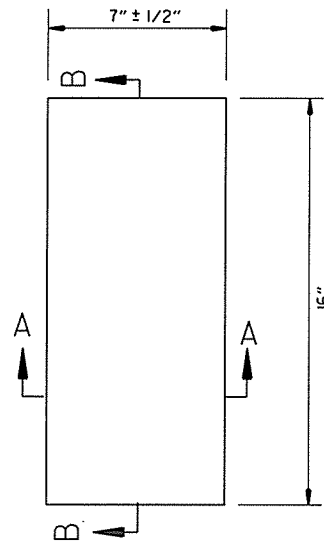
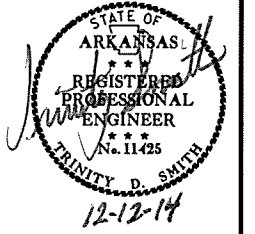
- ** WARPING & LONGITUDINAL JOINTS SHALL BE SAWED TO MIN. WIDTH OF EXISTING WIDTH + 1/8" (1/16" ON EACH SIDE).

NOTE:
FOR JOINTS WIDER THAN 1/2", THE CONTRACTOR SHALL HAVE THE OPTION OF COMPLETELY FILLING THE JOINT IN LIEU OF USING A BACKER ROD.

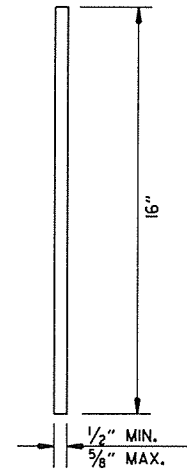
REFER TO SECTION 509 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. NO. PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0405		8	29

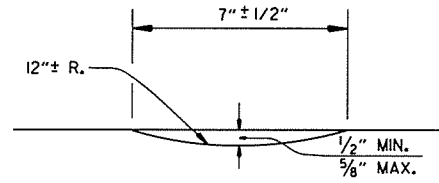
2 SPECIAL DETAILS



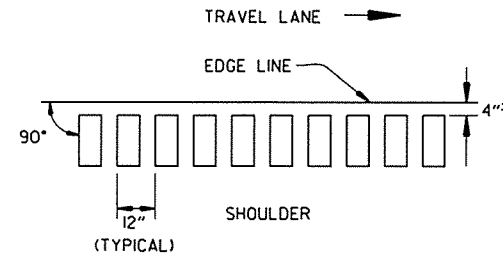
PLAN



SECTION B-B

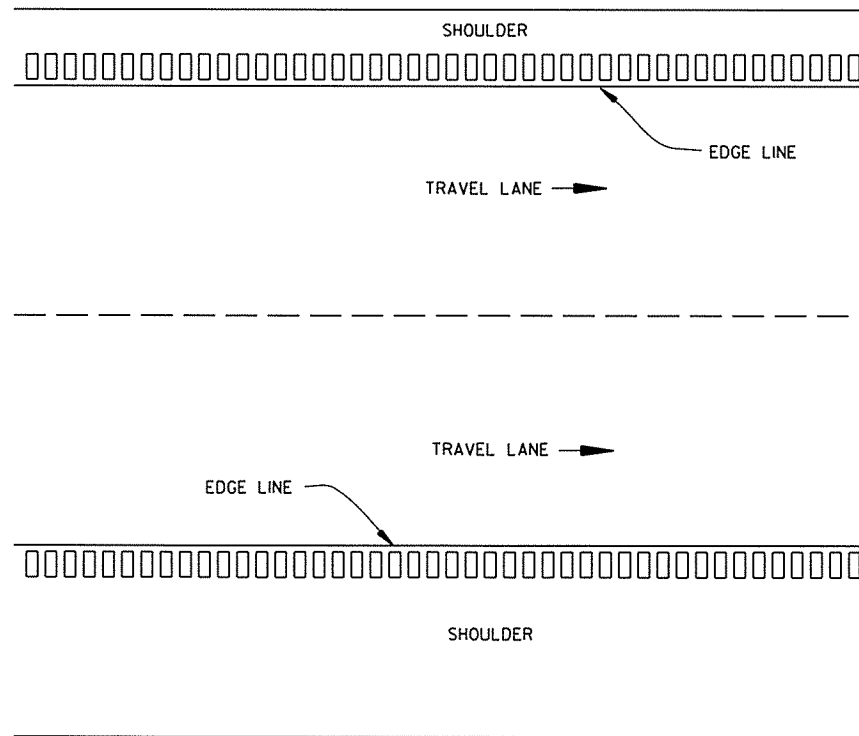


SECTION A-A



LOCATION PLAN OF RUMBLE STRIPS
LEFT OR RIGHT SHOULDER

DETAILS OF RUMBLE STRIPS



PLAN VIEW

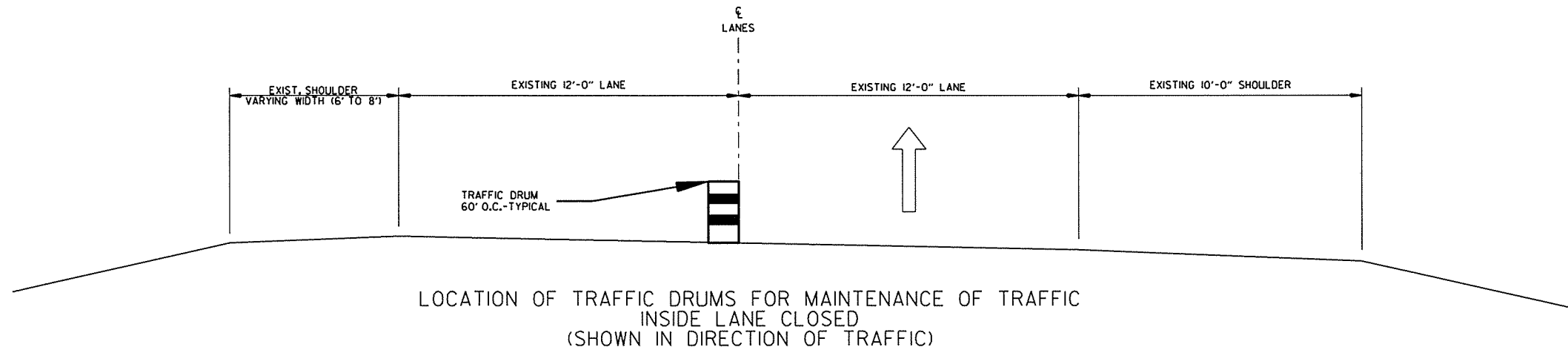
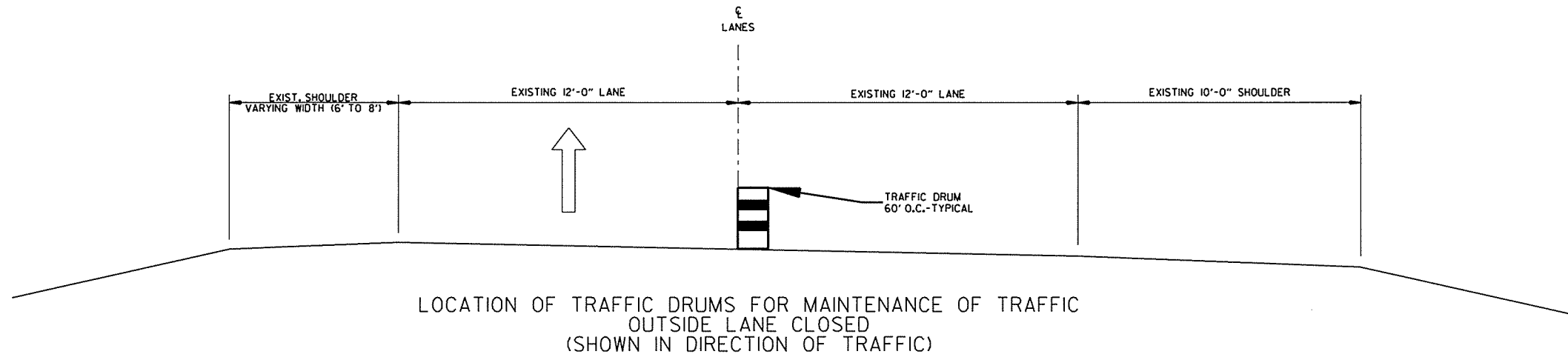
NOTES:

1. ALIGNMENT OF RUMBLE STRIPS SHALL GENERALLY BE STRAIGHT AND OFFSET APPROXIMATELY 4" FROM THE OUTER EDGE OF THE EDGE LINE. THIS OFFSET MAY BE ADJUSTED TO ACCOMMODATE VARIATIONS IN THE EDGE LINE.
2. THE 1/2" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 16" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.
3. RUMBLE STRIPS SHALL NOT BE INSTALLED ON BRIDGE DECKS, APPROACH SLABS, OR ACROSS TRANSVERSE JOINTS OF CONCRETE SHOULDERS.

SPECIAL DETAILS

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				6	ARK.		9	29
				JOB NO. BB0405				

2 SPECIAL DETAILS



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SPECIAL DETAILS

CONSTRUCTION PAVEMENT MARKINGS:
 APPLY CONSTRUCTION PAVEMENT MARKINGS
 ACCORDING TO STD. DWG. PM-2
 4" YELLOW - 40699 LIN. FT.
 4" (SKIP LINE) WHITE - 7210 LIN. FT.
 4" WHITE - 41040 LIN. FT.
 8" WHITE - 3875 LIN. FT.

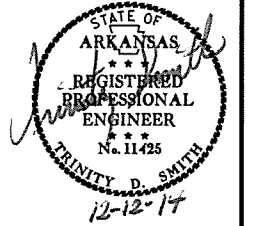
PERMANENT PAVEMENT MARKINGS:
 APPLY PERMANENT PAVEMENT MARKINGS
 ACCORDING TO STD. DWG. PM-2
 4" YELLOW = 40699 LIN. FT.
 8" WHITE = 41040 LIN. FT.
 4" WHITE = 3875 LIN. FT.
 4" WHITE CONTRAST = 7210 LIN. FT.
 RAISED PAV'T MARKINGS (TYPE II) = 98/EACH
 80' SPACING (EXCEPT WHERE SHOWN ON STD. DWG. PM-2)

NOTE:
 CONSTRUCTION PAVEMENT MARKINGS
 QUANTITY BASED ON ONE APPLICATION
 OF EXISTING PAVEMENT MARKINGS.
 FOR ADDITIONAL INFORMATION,
 SEE STD. DRG. PM-2.

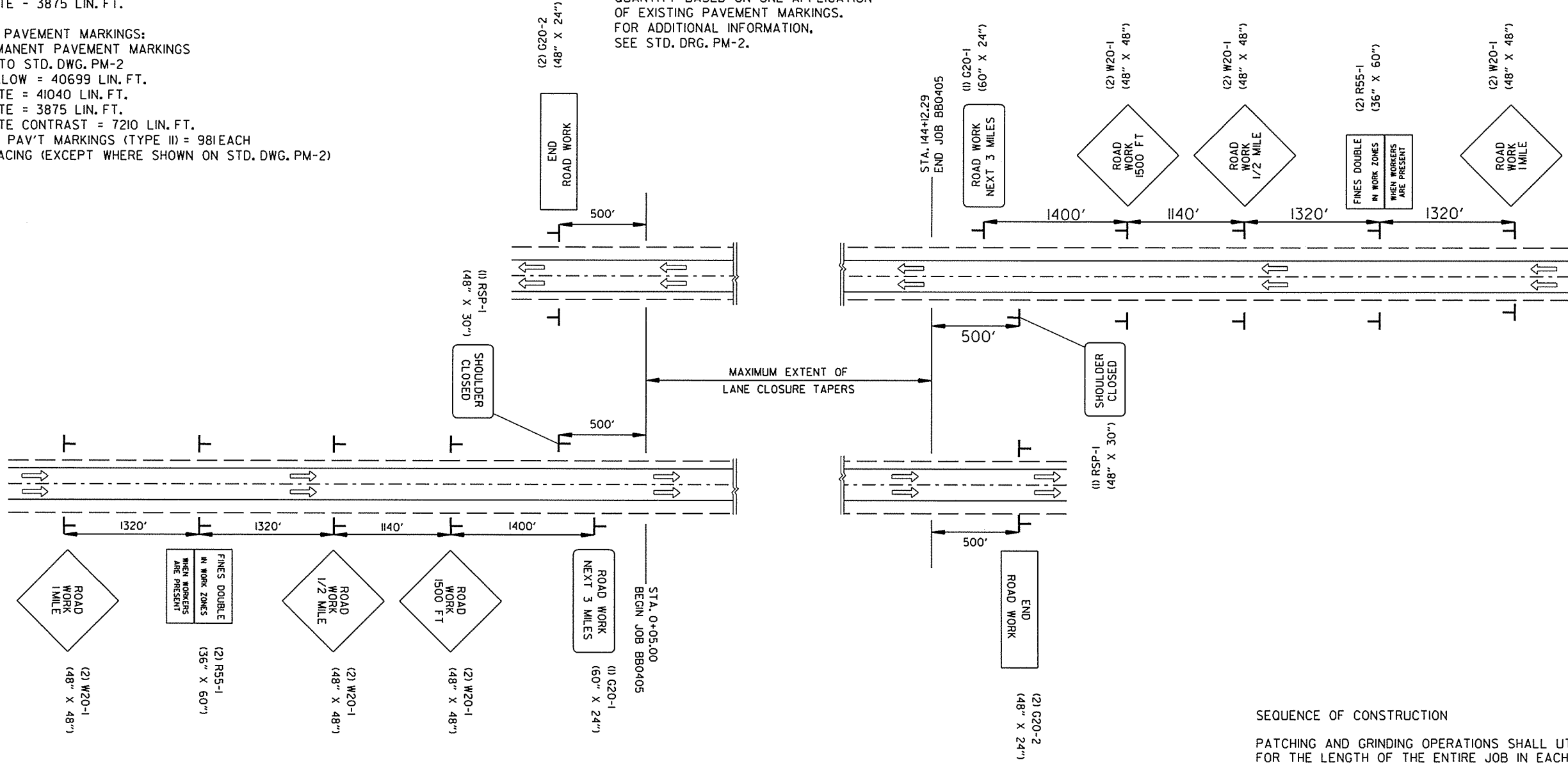
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0405		10	29

② MAINTENANCE OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGN
 PLACED AS DIRECTED BY THE ENGINEER



PORTABLE CHANGEABLE MESSAGE SIGN
 PLACED AS DIRECTED BY THE ENGINEER



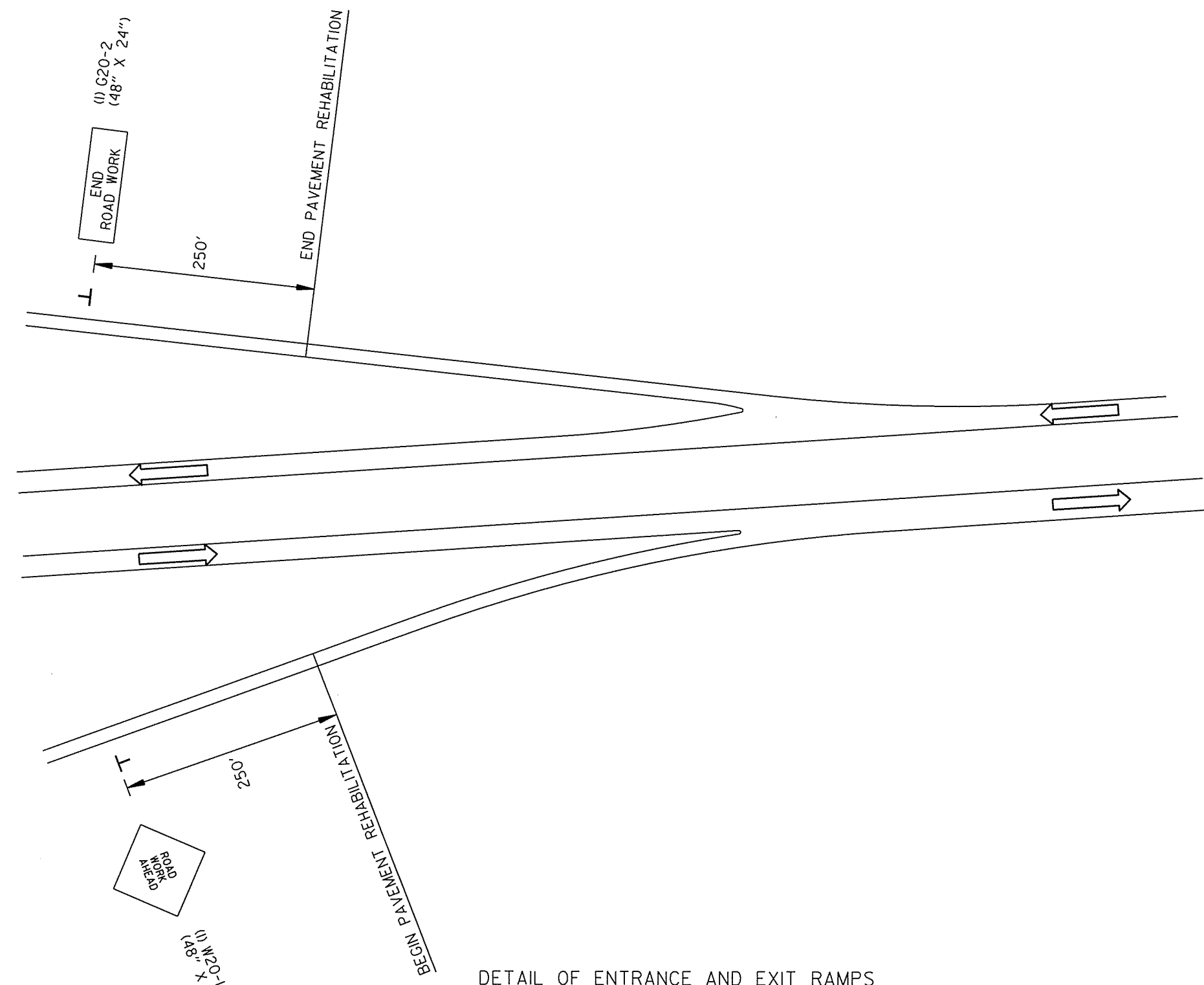
SEQUENCE OF CONSTRUCTION

PATCHING AND GRINDING OPERATIONS SHALL UTILIZE A LANE CLOSURE FOR THE LENGTH OF THE ENTIRE JOB IN EACH DIRECTION. ONLY ONE LANE CLOSURE PER DIRECTION WILL BE ALLOWED AT ANY GIVEN TIME. NO LANE CLOSURE MAY EXCEED THE ACTIVE WORK AREA BY MORE THAN ONE QUARTER (1/4) MILE. REFER TO THE MAINTENANCE OF TRAFFIC SPECIAL PROVISION.

ADVANCE WARNING SIGNS FOR ENTRANCE AND EXIT RAMP
 ROAD WORK AHEAD (5) = 80 SQ. FT.
 END ROAD WORK (5) = 40 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.							BB0405	12	29

② MAINTENANCE OF TRAFFIC

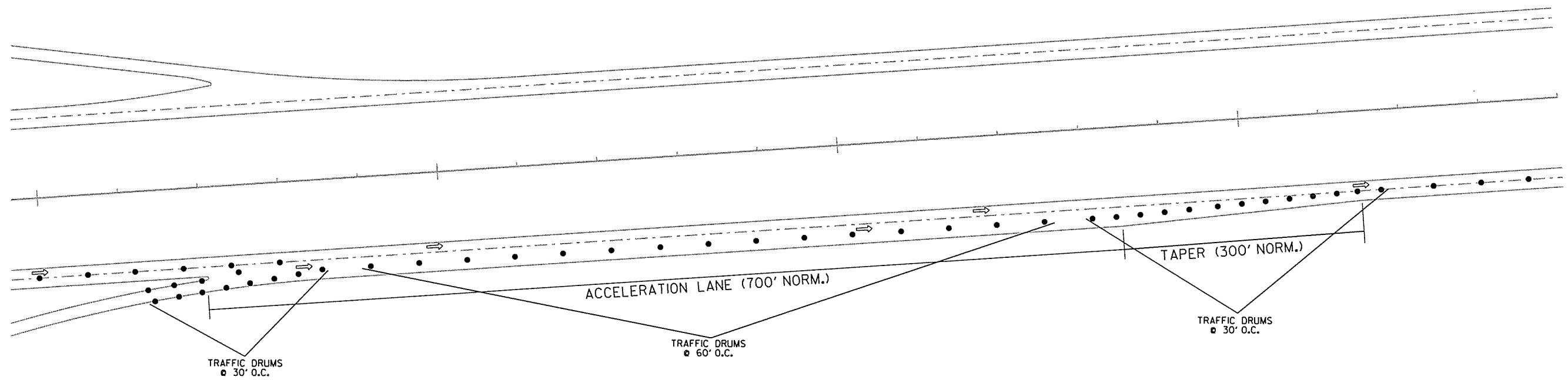
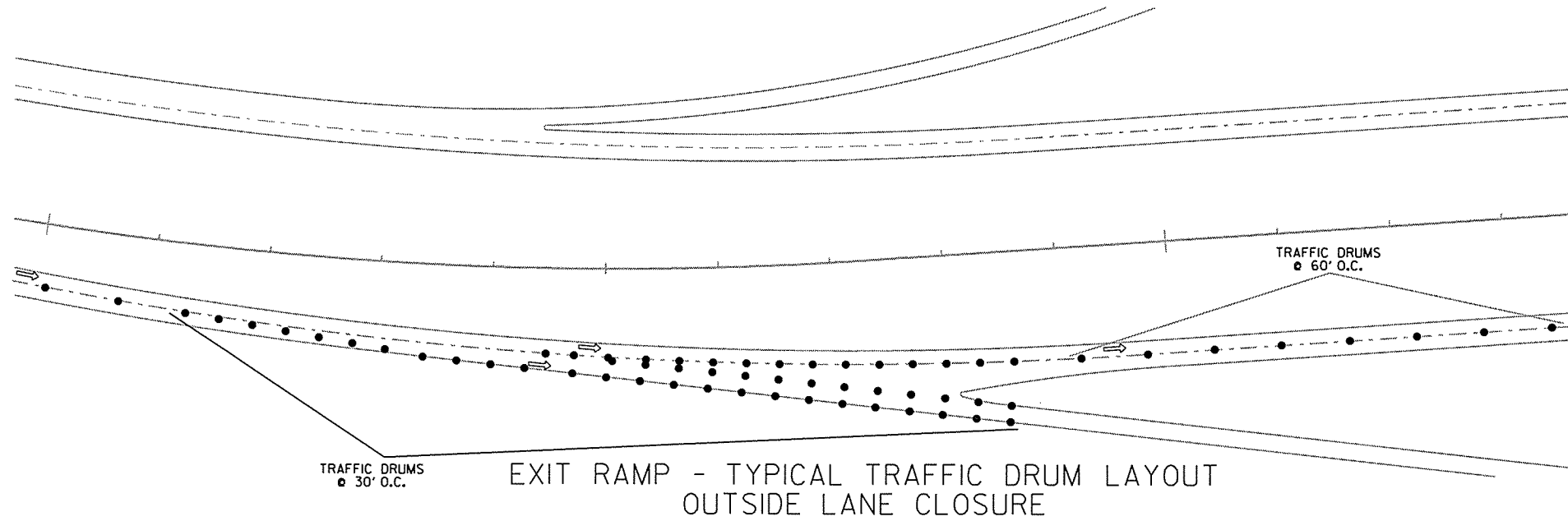
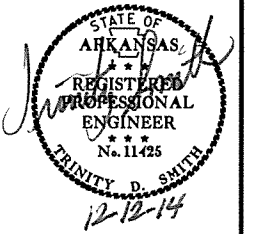


DETAIL OF ENTRANCE AND EXIT RAMP
 EXIT 12
 EXIT 13
 EXIT 14

MAINTENANCE OF TRAFFIC
 DETAIL OF RAMPS

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.	BB0405		13	29

② MAINTENANCE OF TRAFFIC



EXIT 12:
NORTHBOUND EXIT = 40 TRAFFIC DRUMS
SOUTHBOUND ENTRANCE = 17 TRAFFIC DRUMS

EXIT 13:
NORTHBOUND EXIT = 40 TRAFFIC DRUMS
NORTHBOUND ENTRANCE = 17 TRAFFIC DRUMS
SOUTHBOUND EXIT = 40 TRAFFIC DRUMS
SOUTHBOUND ENTRANCE = 17 TRAFFIC DRUMS

EXIT 14:
NORTHBOUND ENTRANCE = 17 TRAFFIC DRUMS
NORTHBOUND EXIT = 40 TRAFFIC DRUMS
SOUTHBOUND EXIT = 40 TRAFFIC DRUMS
SOUTHBOUND ENTRANCE = 17 TRAFFIC DRUMS

MAINTENANCE OF TRAFFIC
DETAIL OF RAMPS WITH LANE CLOSURE

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				6	ARK.			
				JOB NO.	BB0405		14	29

2 QUANTITIES



CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	HWY. 271	I-540	CONSTRUCTION PAVEMENT MARKINGS	RAISED PAVEMENT MARKERS	HIGH PERFORMANCE CONTRAST PAVEMENT MARKING	HIGH PERFORMANCE PAVEMENT MARKING		
				TYPE II (WHITE/RED)	4"	4"		8"
	LIN. FT. - EACH	LIN. FT.	EACH	WHITE	WHITE	YELLOW	WHITE	
CONSTRUCTION PAVEMENT MARKINGS	20705	72119	92824					
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)	211	770		981				
HIGH PERFORMANCE CONTRAST PAVEMENT MARKING WHITE (4")	1730	5480			7210			
HIGH PERFORMANCE PAVEMENT MARKING WHITE (4")	9128	31912				41040		
HIGH PERFORMANCE PAVEMENT MARKING YELLOW (4")	9072	31627					40699	
HIGH PERFORMANCE PAVEMENT MARKING WHITE (8")	775	3100						3875
TOTALS:			92824	981	7210	41040	40699	3875

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION.

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	TEMPORARY PORTABLE RUMBLE STRIPS
			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"	9	9	9	144.0				
G20-2	END ROAD WORK	48"x24"	9	9	9	72.0				
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"	4	4	4	64.0				
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	4	4	4	64.0				
W20-5	RIGHT LANE CLOSED 1500 FT.	48"x48"	4	4	4	64.0				
SPECIAL	MERGE NOW W/ ARROW	48"x48"	2	2	2	32.0				
R2-5A	REDUCED SPEED AHEAD	48"x60"	4	4	4	80.0				
W1-6	LARGE ARROW	48"x24"	12	12	12	96.0				
R4-1	DO NOT PASS	48"x60"	8	8	8	160.0				
RSP-1	SHOULDER CLOSED	48"x30"	2	2	2	20.0				
R2-1	SPEED LIMIT 60 MPH	48"x60"	4	4	4	80.0				
R2-1	SPEED LIMIT 70 MPH	48"x60"	4	4	4	80.0				
R2-2	TRUCKS SPEED LIMIT 65 MPH	48"x60"	4	4	4	80.0				
W4-2 RT.	MERGE RIGHT	48"x48"	4	4	4	64.0				
SPECIAL	RUMBLE STRIPS AHEAD	48"x48"	4	4	4	64.0				
	TRAFFIC DRUMS		913	913			913			
	ADVANCE WARNING ARROW PANEL		2	2			80			
	PORTABLE CHANGEABLE MESSAGE SIGN		4	4				56		
	TEMPORARY PORTABLE RUMBLE STRIPS		24	24					24	
TOTALS:						1436.0	913	80	56	24

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 BOTH SIDES OF THE ROADWAY FOR THE FULL LENGTH OF THE JOB. 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

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② QUANTITIES



PCCP PATCHING (HWY. 271 SOUTHBOUND) - BOX 1 OF 5

LOG MILE	LOG MILE	LOCATION	LENGTH	WIDTH	REM. & DISP. CONC. PVMT.	P.C.C.P. PATCHING (9" U.T.)
			FEET	FEET	SQ. YD.	SQ. YD.
2.750	2.752	HWY. 271 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
2.801	2.803	HWY. 271 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
2.851	2.853	HWY. 271 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
SUBTOTALS BOX 1:					24.0	24.0

PCCP PATCHING (HWY. 271 NORTHBOUND) - BOX 2 OF 5

LOG MILE	LOG MILE	LOCATION	LENGTH	WIDTH	REM. & DISP. CONC. PVMT.	P.C.C.P. PATCHING (9" U.T.)
			FEET	FEET	SQ. YD.	SQ. YD.
2.997	2.995	HWY. 271 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
SUBTOTALS BOX 2:					10.0	10.0

PCCP PATCHING (I-540 NORTHBOUND) - BOX 3 OF 5

LOG MILE	LOG MILE	LOCATION	LENGTH	WIDTH	REM. & DISP. CONC. PVMT.	P.C.C.P. PATCHING (9" U.T.)
			FEET	FEET	SQ. YD.	SQ. YD.
0.815	0.817	I-540 NORTHBOUND - OUTSIDE LANE JOINT	8	15	13.3	13.3
0.894	0.896	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
0.944	0.946	I-540 NORTHBOUND - OUTSIDE LANE JOINT	8	12	10.7	10.7
1.029	1.031	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.098	1.100	I-540 NORTHBOUND - OUTSIDE LANE	15	15	25.0	25.0
1.198	1.200	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.374	1.376	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.587	1.589	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.848	1.850	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.936	1.938	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.954	1.956	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
2.100	2.102	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
2.660	2.662	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
2.666	2.668	I-540 NORTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
2.720	2.726	I-540 NORTHBOUND - INSIDE LANE	30	12	40.0	40.0
2.729	2.735	I-540 NORTHBOUND - INSIDE LANE	30	12	40.0	40.0
SUBTOTALS BOX 3:					237.0	237.0

PCCP PATCHING (I-540 SOUTHBOUND) - BOX 4 OF 5

LOG MILE	LOG MILE	LOCATION	LENGTH	WIDTH	REM. & DISP. CONC. PVMT.	P.C.C.P. PATCHING (9" U.T.)
			FEET	FEET	SQ. YD.	SQ. YD.
2.675	2.667	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	45	15	75.0	75.0
2.442	2.440	I-540 SOUTHBOUND - BOTH LANES JOINT	6	27	18.0	18.0
2.433	2.431	I-540 SOUTHBOUND - INSIDE LANE JOINT	6	12	8.0	8.0
2.208	2.206	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
2.158	2.156	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
2.112	2.110	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
2.083	2.081	I-540 SOUTHBOUND - INSIDE LANE	15	12	20.0	20.0
2.080	2.078	I-540 SOUTHBOUND - OUTSIDE LANE	15	15	25.0	25.0
2.039	2.037	I-540 SOUTHBOUND - INSIDE LANE JOINT	6	12	8.0	8.0
2.002	2.000	I-540 SOUTHBOUND - INSIDE LANE JOINT	8	12	10.7	10.7
1.903	1.901	I-540 SOUTHBOUND - INSIDE LANE JOINT	6	12	8.0	8.0
1.872	1.870	I-540 SOUTHBOUND - INSIDE LANE JOINT	6	12	8.0	8.0
1.662	1.660	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.609	1.607	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.434	1.432	I-540 SOUTHBOUND - INSIDE LANE JOINT	6	12	8.0	8.0
1.332	1.330	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
1.326	1.324	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
1.264	1.262	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
1.240	1.238	I-540 SOUTHBOUND - OUTSIDE LANE	15	15	25.0	25.0
1.172	1.170	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
1.055	1.053	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
0.953	0.951	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	15	10.0	10.0
0.928	0.926	I-540 SOUTHBOUND - OUTSIDE LANE JOINT	6	12	8.0	8.0
SUBTOTALS BOX 4:					323.7	323.7

PCCP PATCHING (INTERCHANGE RAMPS) - BOX 5 OF 5

LOG MILE	LOG MILE	LOCATION	LENGTH	WIDTH	REM. & DISP. CONC. PVMT.	P.C.C.P. PATCHING (9" U.T.)
			FEET	FEET	SQ. YD.	SQ. YD.
ENTIRE	PROJECT	AS DIRECTED BY THE ENGINEER	VARIES	15	920.0	920.0
SUBTOTALS BOX 5:					920.0	920.0

PCCP PATCHING TOTAL

	LOCATION	REM. & DISP. CONC. PVMT.	P.C.C.P. PATCHING (9" U.T.)
		SQ. YD.	SQ. YD.
SUBTOTALS BOX 1	HWY. 271 SOUTHBOUND	24.0	24.0
SUBTOTALS BOX 2	HWY. 271 NORTHBOUND	10.0	10.0
SUBTOTALS BOX 3	I-540 NORTHBOUND	237.0	237.0
SUBTOTALS BOX 4	I-540 SOUTHBOUND	323.7	323.7
SUBTOTALS BOX 5	INTERCHANGE RAMPS	920.0	920.0
TOTALS:		1514.7	1514.7

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QUANTITIES

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				6	ARK.			
				JOB NO.	BB0405		16	29

2 QUANTITIES

**GRINDING PORTLAND CEMENT CONCRETE PAVEMENT
(HWY. 271 SOUTHBOUND) - BOX 1 OF 5**

STATION	STATION	LOCATION	LENGTH	WIDTH	GRINDING PORTLAND CEMENT CONCRETE SQ. YD.
			FEET	FEET	
00+05.00	13+88.31	HWY. 271 SOUTHBOUND LANES	1383.31	27	4149.9
13+88.31	23+00.36	HWY. 271 SOUTHBOUND LANES	912.05	24	2432.1
23+00.36	34+36.63	HWY. 271 SOUTHBOUND LANES	1136.27	27	3408.8
ADDITIONAL FOR ENTRANCE RAMP					
13+88.31	24+03.59	EXIT 14 S.B. LANES - ACCELERATION LANE AND TAPER	1015.28	VARIES	1120.3
24+03.59	35+98.59	EXIT 14 - RAMP 4	1195.00	15	1991.7
SUBTOTAL BOX 1:					13102.8

NOTE: THE REMOVAL AND DISPOSAL OF PLOWABLE PAVEMENT MARKERS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "GRINDING PORTLAND CEMENT CONCRETE PAVEMENT."

**GRINDING PORTLAND CEMENT CONCRETE PAVEMENT
(HWY. 271 NORTHBOUND) - BOX 2 OF 5**

STATION	STATION	LOCATION	LENGTH	WIDTH	GRINDING PORTLAND CEMENT CONCRETE SQ. YD.
			FEET	FEET	
00+05.00	18+78.37	HWY. 271 NORTHBOUND LANES	1873.37	27	5620.1
18+78.37	22+62.98	HWY. 271 NORTHBOUND LANES	384.61	24	1025.6
22+62.98	34+13.74	HWY. 271 NORTHBOUND LANES	1150.76	27	3452.3
ADDITIONAL FOR EXIT RAMP					
18+78.37	25+38.60	EXIT 14 N.B. LANES - TURN OUT	660.23	VARIES	899.5
25+38.60	34+58.60	EXIT 14 - RAMP 1	920.00	15	1533.3
SUBTOTAL BOX 2:					12530.8

NOTE: THE REMOVAL AND DISPOSAL OF PLOWABLE PAVEMENT MARKERS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "GRINDING PORTLAND CEMENT CONCRETE PAVEMENT."

**GRINDING PORTLAND CEMENT CONCRETE PAVEMENT
(I-540 SOUTHBOUND) - BOX 3 OF 5**

STATION	STATION	LOCATION	LENGTH	WIDTH	GRINDING PORTLAND CEMENT CONCRETE SQ. YD.
			FEET	FEET	
36+95.03	47+75.66	I-540 SOUTHBOUND LANES	1080.63	27	3241.9
47+75.66	50+50.71	I-540 SOUTHBOUND LANES	275.05	24	733.5
50+50.71	67+53.06	I-540 SOUTHBOUND LANES	1702.35	27	5107.1
67+53.06	75+99.23	I-540 SOUTHBOUND LANES	846.17	24	2256.5
75+99.23	87+29.78	I-540 SOUTHBOUND LANES	1130.55	27	3391.7
88+44.37	100+64.30	I-540 SOUTHBOUND LANES	1219.93	27	3659.8
100+64.30	103+10.33	I-540 SOUTHBOUND LANES	246.03	24	656.1
103+10.33	115+14.46	I-540 SOUTHBOUND LANES	1204.13	27	3612.4
115+14.46	123+47.14	I-540 SOUTHBOUND LANES	832.68	24	2220.5
123+47.14	135+32.92	I-540 SOUTHBOUND LANES	1185.78	27	3557.3
139+53.30	144+12.29	I-540 SOUTHBOUND LANES	458.99	27	1377.0
ADDITIONAL FOR ENTRANCE AND EXIT RAMPS					
37+19.33	45+49.33	EXIT 14 - RAMP 3	830.00	15	1383.3
45+49.33	50+50.71	EXIT 14 S.B. LANES - TURN OUT	501.38	VARIES	607.6
67+53.06	76+54.17	EXIT 13 S.B. LANES - ACCELERATION LANE AND TAPER	901.11	VARIES	1032.4
76+54.17	88+09.17	EXIT 13 - RAMP 4	1155.00	15	1925.0
87+90.16	98+40.16	EXIT 13 - RAMP 3	1050.00	15	1750.0
98+40.16	103+10.33	EXIT 13 S.B. LANES - TURN OUT	470.17	VARIES	536.3
115+14.46	124+15.97	EXIT 12 S.B. LANES - ACCELERATION LANE AND TAPER	901.51	VARIES	1028.0
124+15.97	137+65.97	EXIT 12 - RAMP 4	1350.00	15	2250.0
SUBTOTAL BOX 3:					40326.4

NOTE: THE REMOVAL AND DISPOSAL OF PLOWABLE PAVEMENT MARKERS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "GRINDING PORTLAND CEMENT CONCRETE PAVEMENT."

**GRINDING PORTLAND CEMENT CONCRETE PAVEMENT
(I-540 NORTHBOUND) - BOX 4 OF 5**

STATION	STATION	LOCATION	LENGTH	WIDTH	GRINDING PORTLAND CEMENT CONCRETE SQ. YD.
			FEET	FEET	
36+72.14	46+25.94	I-540 NORTHBOUND LANES	953.80	27	2861.4
46+25.94	57+44.94	I-540 NORTHBOUND - BOTH LANES	1119.00	24	2984.0
57+44.94	73+18.90	I-540 NORTHBOUND - INSIDE LANE	1573.96	27	4721.9
73+18.90	75+65.11	I-540 NORTHBOUND - OUTSIDE LANE	246.21	24	656.6
75+65.11	87+29.78	I-540 NORTHBOUND - OUTSIDE LANE	1164.67	27	3494.0
88+80.87	99+18.14	I-540 NORTHBOUND - INSIDE LANE	1037.27	27	3111.8
99+18.14	107+70.81	I-540 NORTHBOUND - ACCEL. LANE	852.67	24	2273.8
107+70.81	117+19.73	I-540 NORTHBOUND - OUTSIDE LANE	948.92	27	2846.8
117+19.73	119+64.66	I-540 NORTHBOUND - OUTSIDE LANE	244.93	24	653.1
119+64.66	135+10.68	I-540 NORTHBOUND - BOTH LANES	1546.02	27	4638.1
139+31.06	144+12.29	I-540 NORTHBOUND - OUTSIDE LANE	481.23	27	1443.7
ADDITIONAL FOR ENTRANCE AND EXIT RAMPS					
34+96.97	45+61.97	EXIT 14 - RAMP 2	1065.00	15	1775.0
45+61.97	57+44.94	EXIT 14 N.B. LANES - ACCELERATION LANE AND TAPER	1182.97	VARIES	1279.6
73+18.90	77+88.65	EXIT 13 N.B. LANES - TURN OUT	469.75	VARIES	537.5
77+88.65	88+03.65	EXIT 13 - RAMP 1	1015.00	15	1691.7
87+89.98	98+69.98	EXIT 13 - RAMP 2	1080.00	15	1800.0
98+69.98	107+70.81	EXIT 13 N.B. LANES - ACCELERATION LANE AND TAPER	900.83	VARIES	1027.7
117+19.73	122+42.91	EXIT 12 N.B. LANES - TURN OUT	523.18	VARIES	5680.2
122+42.91	135+47.91	EXIT 12 - RAMP 1	1305.00	15	2175.0
135+38.52	145+38.52	EXIT 12 - RAMP 2	1000.00	15	1666.7
SUBTOTAL BOX 4:					47318.6

NOTE: THE REMOVAL AND DISPOSAL OF PLOWABLE PAVEMENT MARKERS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "GRINDING PORTLAND CEMENT CONCRETE PAVEMENT."

GRINDING PORTLAND CEMENT CONCRETE PAVEMENT TOTAL

	LOCATION	GRINDING PORTLAND CEMENT CONCRETE PAVEMENT SQ. YD.
SUBTOTAL BOX 1	HWY. 271 SOUTHBOUND	13102.8
SUBTOTAL BOX 2	HWY. 271 NORTHBOUND	12530.8
SUBTOTAL BOX 3	I-540 SOUTHBOUND	40326.4
SUBTOTAL BOX 4	I-540 NORTHBOUND	47318.6
TOTAL:		113278.6

NOTE: THE REMOVAL AND DISPOSAL OF PLOWABLE PAVEMENT MARKERS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR "GRINDING PORTLAND CEMENT CONCRETE PAVEMENT."



12/8/2014
RB0405.DGN

QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0405		17	29

② QUANTITIES



RUMBLE STRIPS IN ASPHALT SHOULDERS

STATION	STATION	LOCATION	* RUMBLE STRIPS IN ASPHALT SHOULDERS
			LIN. FT.
00+05	18+78	RT. OF HWY. 271 NORTHBOUND LANES	1873
22+63	34+14	RT. OF HWY. 271 NORTHBOUND LANES	1151
36+72	46+26	RT. OF I-540 NORTHBOUND LANES	954
57+45	73+19	RT. OF I-540 NORTHBOUND LANES	1574
75+65	87+30	RT. OF I-540 NORTHBOUND LANES	1165
88+81	99+18	RT. OF I-540 NORTHBOUND LANES	1037
107+71	117+20	RT. OF I-540 NORTHBOUND LANES	949
119+65	135+11	RT. OF I-540 NORTHBOUND LANES	1546
139+31	144+12	RT. OF I-540 NORTHBOUND LANES	481
00+05	13+88	LT. OF HWY. 271 SOUTHBOUND LANES	1383
23+00	34+37	LT. OF HWY. 271 SOUTHBOUND LANES	1137
36+95	47+76	LT. OF I-540 SOUTHBOUND LANES	1081
50+51	67+53	LT. OF I-540 SOUTHBOUND LANES	1702
75+99	87+30	LT. OF I-540 SOUTHBOUND LANES	1131
88+81	100+64	LT. OF I-540 SOUTHBOUND LANES	1183
103+10	115+14	LT. OF I-540 SOUTHBOUND LANES	1204
123+47	135+33	LT. OF I-540 SOUTHBOUND LANES	1186
139+53	144+12	LT. OF I-540 SOUTHBOUND LANES	459
TOTAL:			21196

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

JOINT REHABILITATION

LOG MILE	LOG MILE	LOCATION	JOINT REHABILITATION			
			NUMBER OF JOINTS	LENGTH LIN. FT.	TYPE A LIN. FT.	TYPE B LIN. FT.
3.200	2.547	HWY. 271 NORTHBOUND	230	24	5520	3448
3.200	2.543	HWY. 271 SOUTHBOUND	231	24	5544	3469
0.688	1.660	I-540 NORTHBOUND	342	24	8208	5132
1.675	2.566	I-540 NORTHBOUND	314	24	7536	4704
2.632	2.738	I-540 NORTHBOUND	37	24	888	560
0.692	1.659	I-540 SOUTHBOUND	340	24	8160	5106
1.674	2.569	I-540 SOUTHBOUND	315	24	7560	4726
2.635	2.738	I-540 SOUTHBOUND	36	24	864	544
TOTALS:					44280	27689

12/8/2014

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QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1-15-15				6	ARK.		18	29
				JOB NO.	BBO405		18	29

2 SUMMARY OF QUANTITIES AND REVISIONS



SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	NHPP-9150(28)	BIM-B540(201)	QUANTITY	UNIT
507	REMOVAL AND DISPOSAL OF CONCRETE PAVEMENT FOR PATCHING	34	1481	1515	SQ. YD.
SP & 507	PORTLAND CEMENT CONCRETE PAVEMENT PATCHING (9" UNIFORM THICKNESS)	34	1481	1515	SQ. YD.
509	JOINT REHABILITATION (TYPE A)	11064	33216	44280	LIN. FT.
509	JOINT REHABILITATION (TYPE B)	6917	20772	27689	LIN. FT.
SP & 510	GRINDING PORTLAND CEMENT CONCRETE PAVEMENT	25634	87645	113279	SQ. YD.
601	MOBILIZATION		1.00	1.00	LUMP SUM
SP & 603	MAINTENANCE OF TRAFFIC		1.00	1.00	LUMP SUM
SS & 604	SIGNS		1436	1436	SQ. FT.
SS & 604	TRAFFIC DRUMS		913	913	EACH
604	CONSTRUCTION PAVEMENT MARKINGS	20705	72119	92824	LIN. FT.
604	ADVANCE WARNING ARROW PANEL		80	80	DAY
SP & 604	PORTABLE CHANGEABLE MESSAGE SIGN		56	56	WEEK
635	ROADWAY CONSTRUCTION CONTROL		1.00	1.00	LUMP SUM
642	RUMBLE STRIPS IN ASPHALT SHOULDERS	5544	15652	21196	LIN. FT.
* SP & 719	INVERTED PROFILE THERMOPLASTIC PAVEMENT MARKING WHITE (4") (ALTERNATE NO. 1)	9128	31912	41040	LIN. FT.
* SP	HIGH PERFORMANCE MARKING TAPE WHITE (4") (ALTERNATE NO. 2)	9128	31912	41040	LIN. FT.
* SP & 719	INVERTED PROFILE THERMOPLASTIC PAVEMENT MARKING WHITE (8") (ALTERNATE NO. 1)	775	3100	3875	LIN. FT.
* SP	HIGH PERFORMANCE MARKING TAPE WHITE (8") (ALTERNATE NO. 2)	775	3100	3875	LIN. FT.
* SP & 719	INVERTED PROFILE THERMOPLASTIC PAVEMENT MARKING YELLOW (4") (ALTERNATE NO. 1)	9072	31627	40699	LIN. FT.
* SP	HIGH PERFORMANCE MARKING TAPE YELLOW (4") (ALTERNATE NO. 2)	9072	31627	40699	LIN. FT.
* SP & 719	INVERTED PROFILE THERMOPLASTIC CONTRAST PAVEMENT MARKING WHITE (4") (ALTERNATE NO. 1)	1730	5480	7210	LIN. FT.
* SP	HIGH PERFORMANCE CONTRAST MARKING TAPE WHITE (4") (ALTERNATE NO. 2)	1730	5480	7210	LIN. FT.
721	RAISED PAVEMENT MARKERS (TYPE II)	211	770	981	EACH
SP	TEMPORARY PORTABLE RUMBLE STRIPS		24	24	EACH

* DENOTES ALTERNATE BID ITEMS.

REVISIONS

DATE	REVISION	SHEET NUMBER
01/15/15	REVISED "MANDATORY USE OF INTERNET BIDDING" SPECIAL PROVISION; REVISED "GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION" SPECIAL PROVISION; ADDED "DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES" SPECIAL PROVISION	2 & 18

1/15/2015
R880405.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. BB0405							19	29

2 PLAN SHEETS

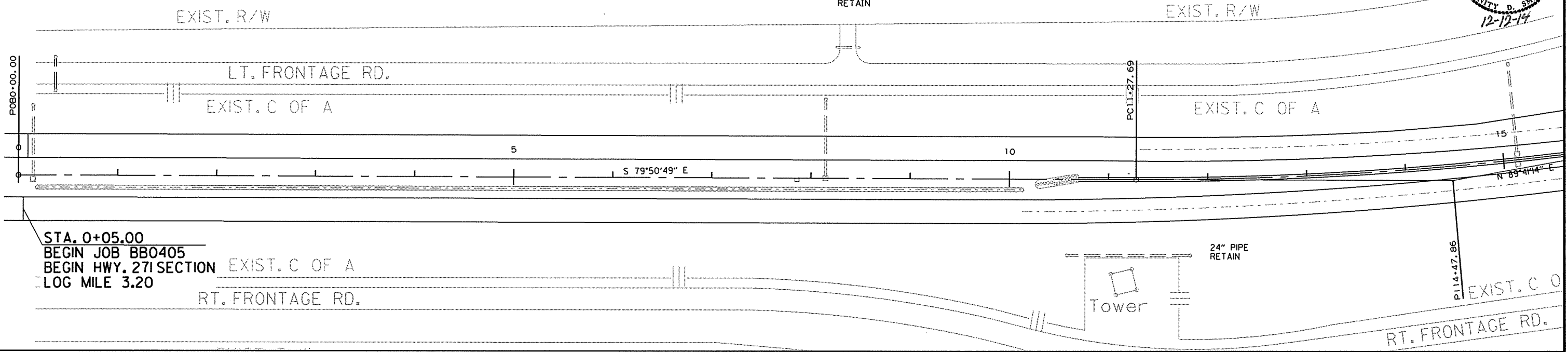


PI = 14+47.49
 Δ = 10+27' 57" LT.
 D = 1+38' 13"
 T = 320.18'
 L = 638.58'
 PC = 11+27.69
 PT = 17+66.26

STA. 0+15 IN PLACE
 TYPE R DROP INLET IN MEDIAN
 (4' X 3' X H = 3'-0") WITH
 18" X 70' R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 RETAIN

STA. 8+15 IN PLACE
 TYPE R DROP INLET IN MEDIAN
 (4' X 3' X H = 4'-0") WITH
 18" X 75' R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 RETAIN

STA. 10+48 - IN PLACE
 IMPACT ATTENUATION BARRIER
 RETAIN



STA. 0+05.00
 BEGIN JOB BB0405
 BEGIN HWY. 271 SECTION
 LOG MILE 3.20
 EXIST. C OF A
 RT. FRONTAGE RD.

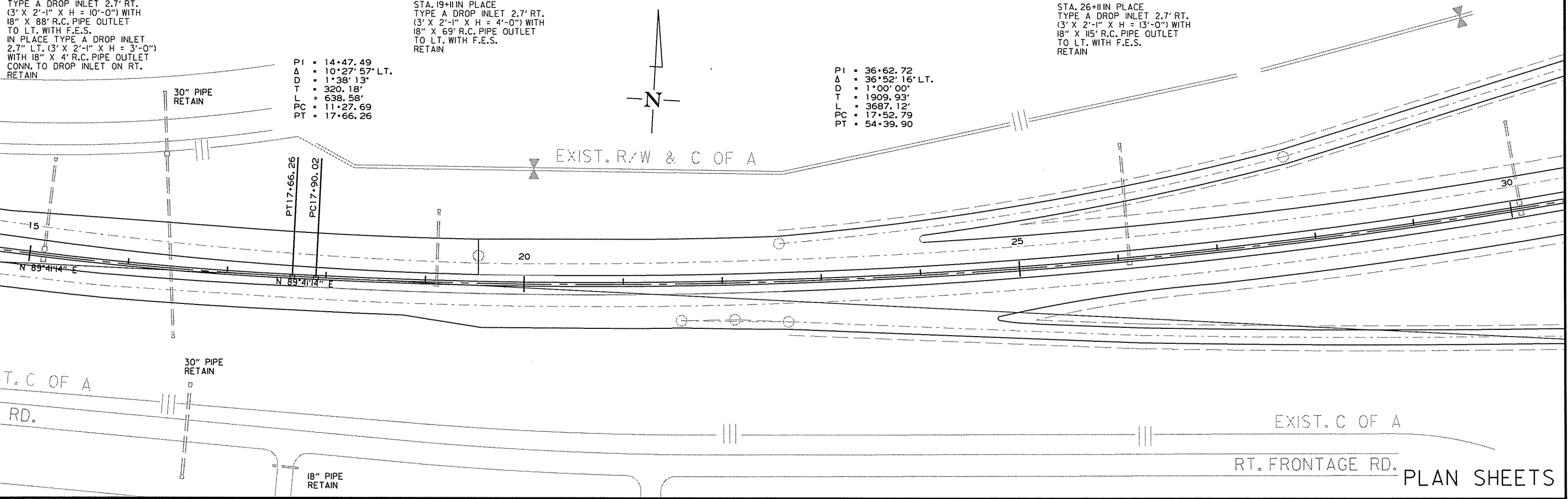
STA. 15+14 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 10'-0") WITH
 18" X 88' R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 IN PLACE TYPE A DROP INLET
 2.7' LT. (3' X 2'-1" X H = 3'-0")
 WITH 18" X 4' R.C. PIPE OUTLET
 CONN. TO DROP INLET ON RT.
 RETAIN

STA. 19+11 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 4'-0") WITH
 18" X 69' R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 RETAIN

STA. 26+11 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 13'-0") WITH
 18" X 115' R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 RETAIN

PI = 14+47.49
 Δ = 10+27' 57" LT.
 D = 1+38' 13"
 T = 320.18'
 L = 638.58'
 PC = 11+27.69
 PT = 17+66.26

PI = 36+62.72
 Δ = 36+52' 16" LT.
 D = 1+00' 00"
 T = 1909.93'
 L = 3687.12'
 PC = 17+52.79
 PT = 54+39.90

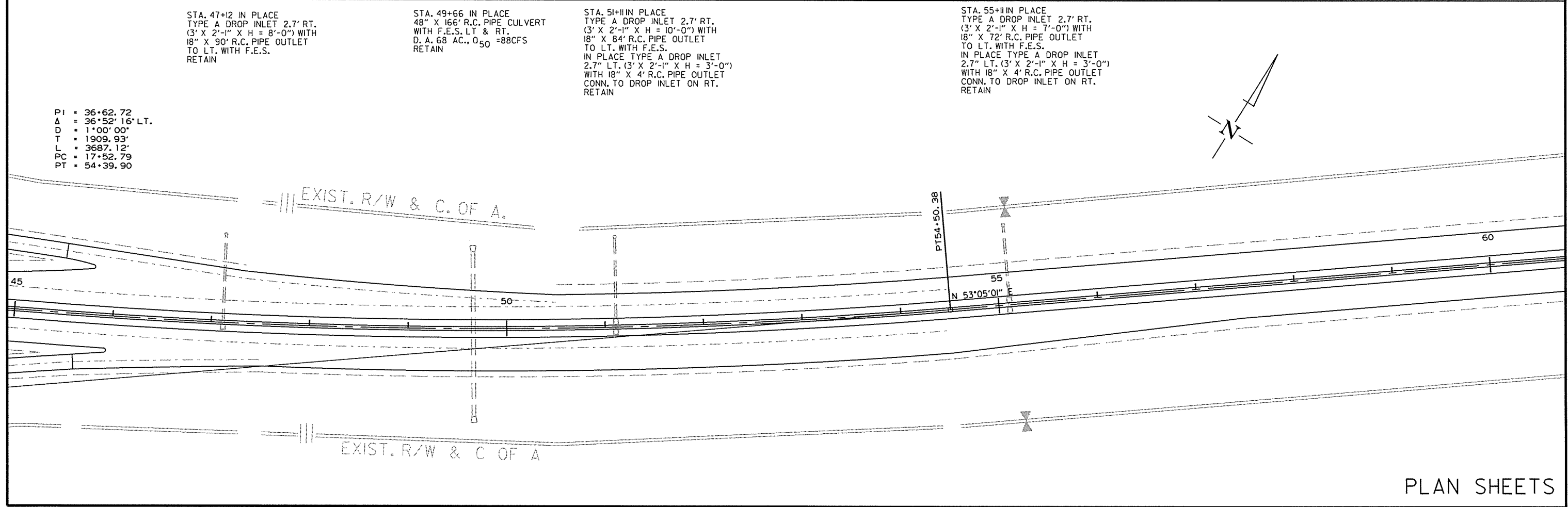
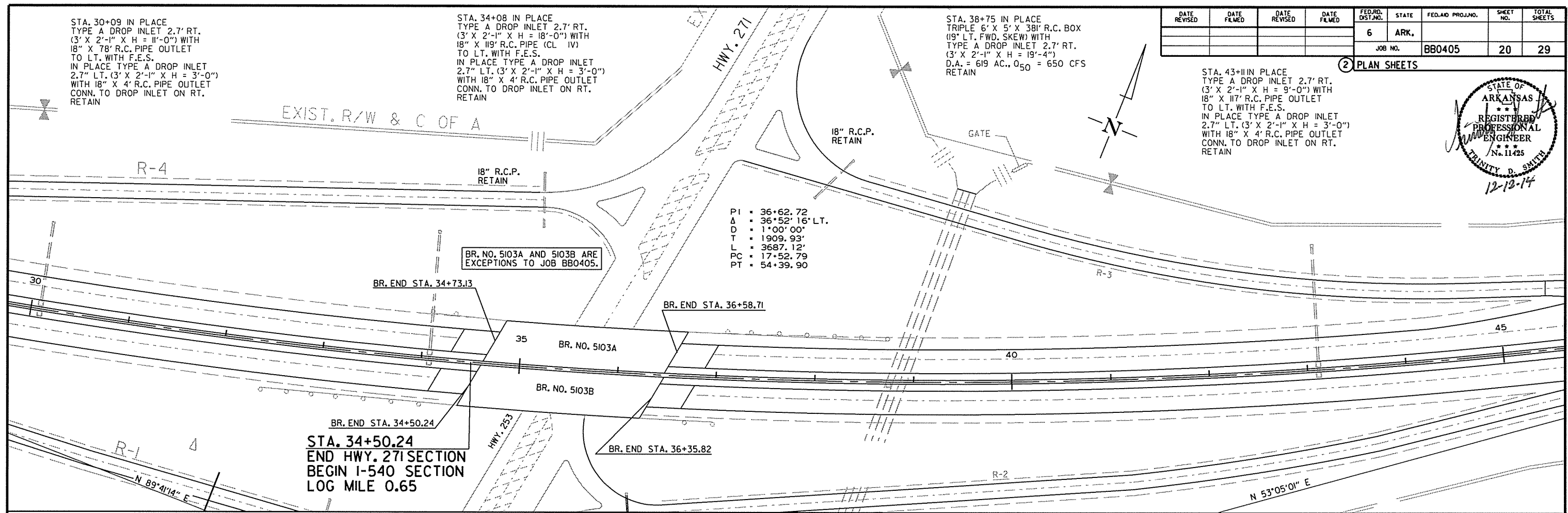
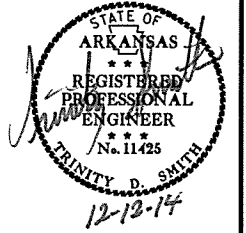


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PLAN SHEETS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0405		20	29

2 PLAN SHEETS



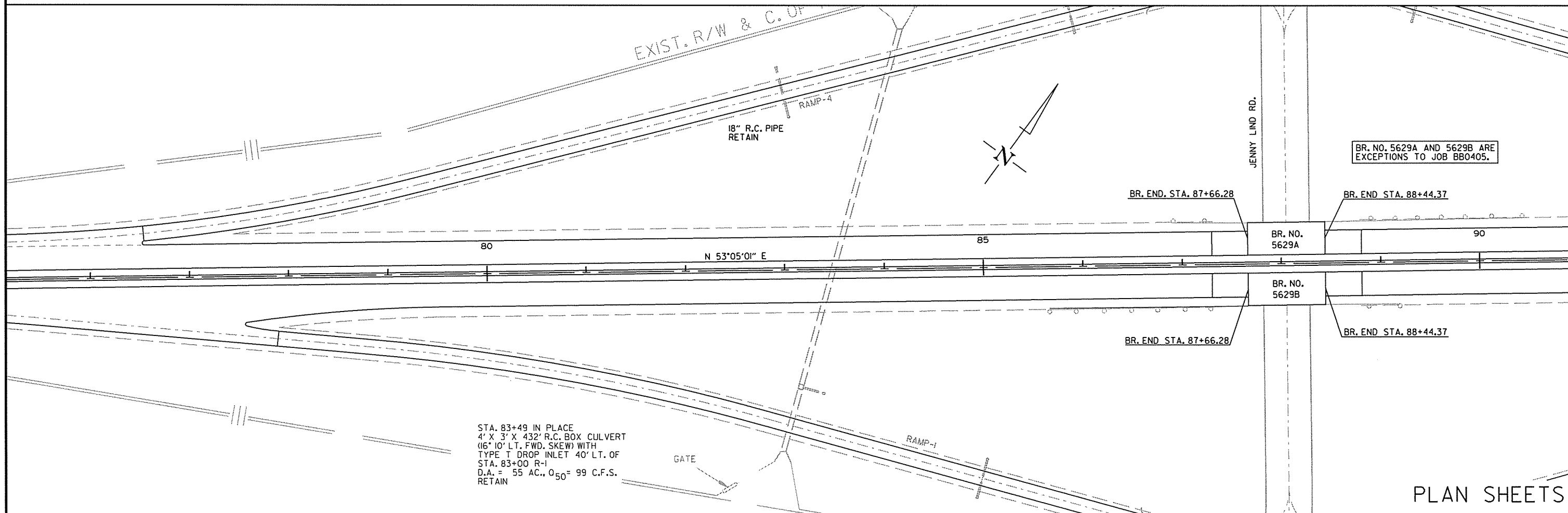
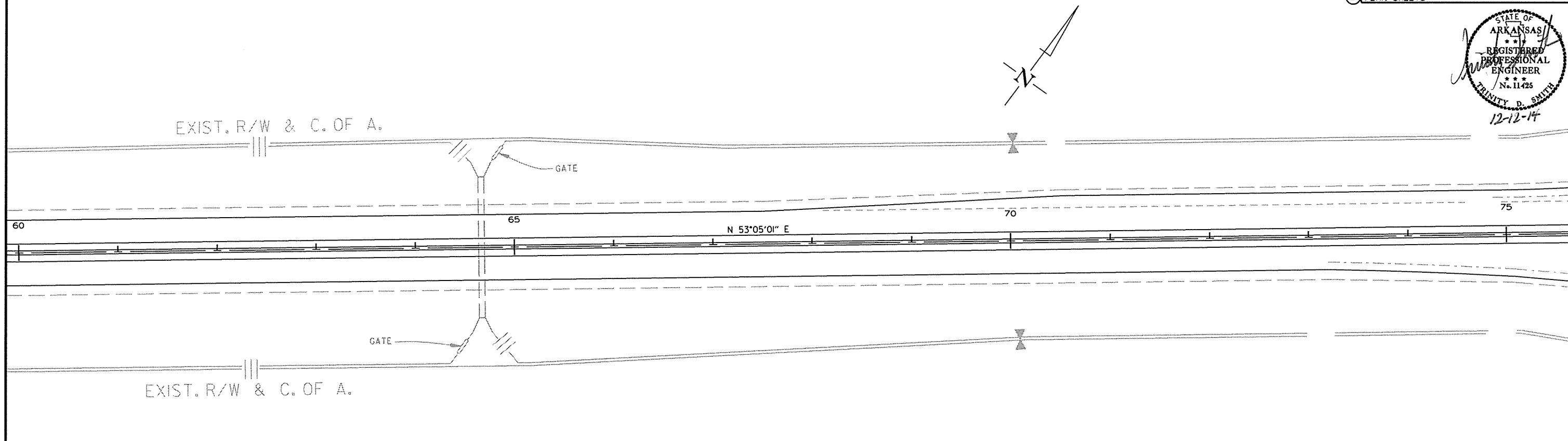
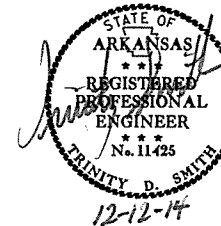
PLAN SHEETS

12/8/2014
BB0405.DGN

STA. 64+67 IN PLACE
 5' X 5' X 142' R.C. BOX CULVERT
 D.A. = 120 AC., 0₅₀ = 173 C.F.S.
 RETAIN

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.		BB0405	21	29

2 PLAN SHEETS



PLAN SHEETS

12/8/2014

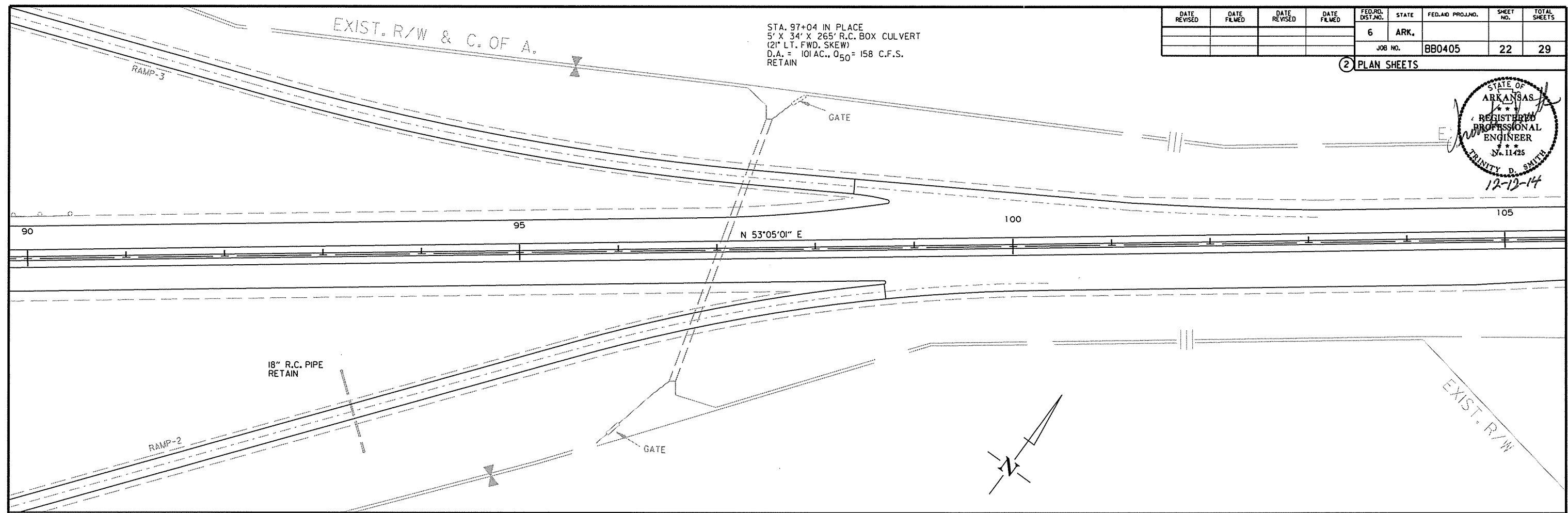
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.	BB0405		22	29

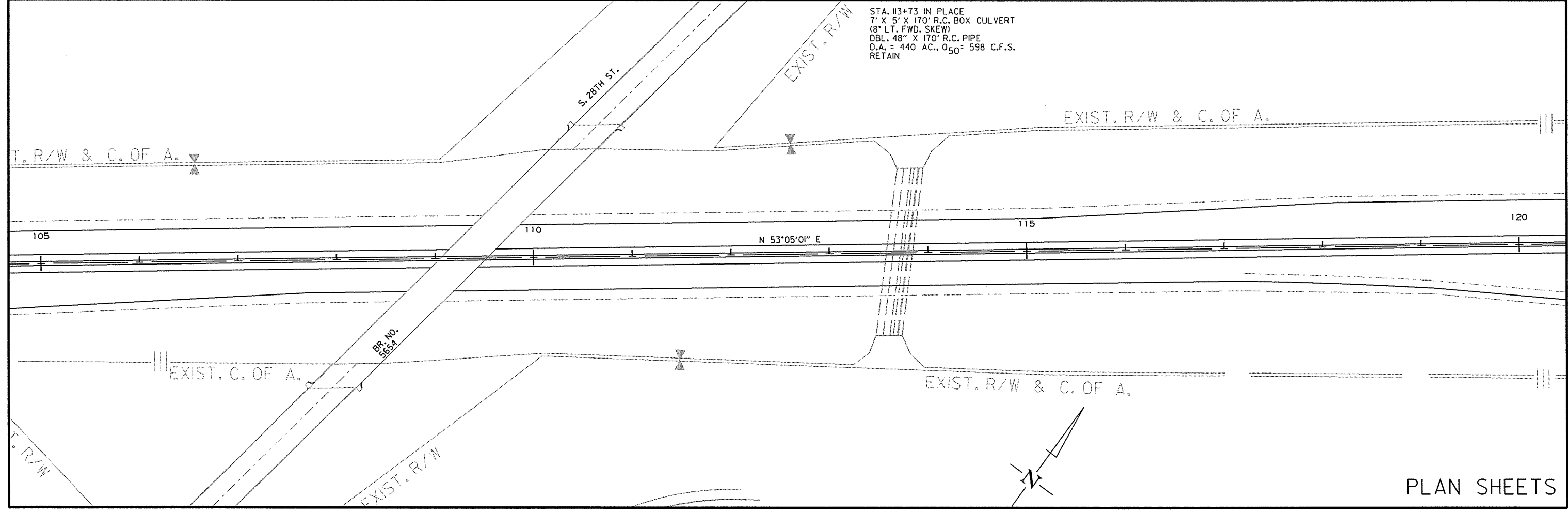
2 PLAN SHEETS



STA. 97+04 IN PLACE
 5' X 34' X 265' R.C. BOX CULVERT
 (21' LT. FWD. SKEW)
 D.A. = 101 AC., Q_{50} = 158 C.F.S.
 RETAIN



STA. 113+73 IN PLACE
 7' X 5' X 170' R.C. BOX CULVERT
 (8' LT. FWD. SKEW)
 DBL. 48" X 170' R.C. PIPE
 D.A. = 440 AC., Q_{50} = 598 C.F.S.
 RETAIN



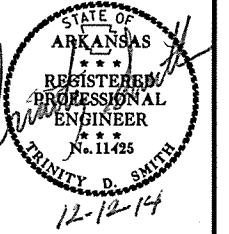
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PLAN SHEETS

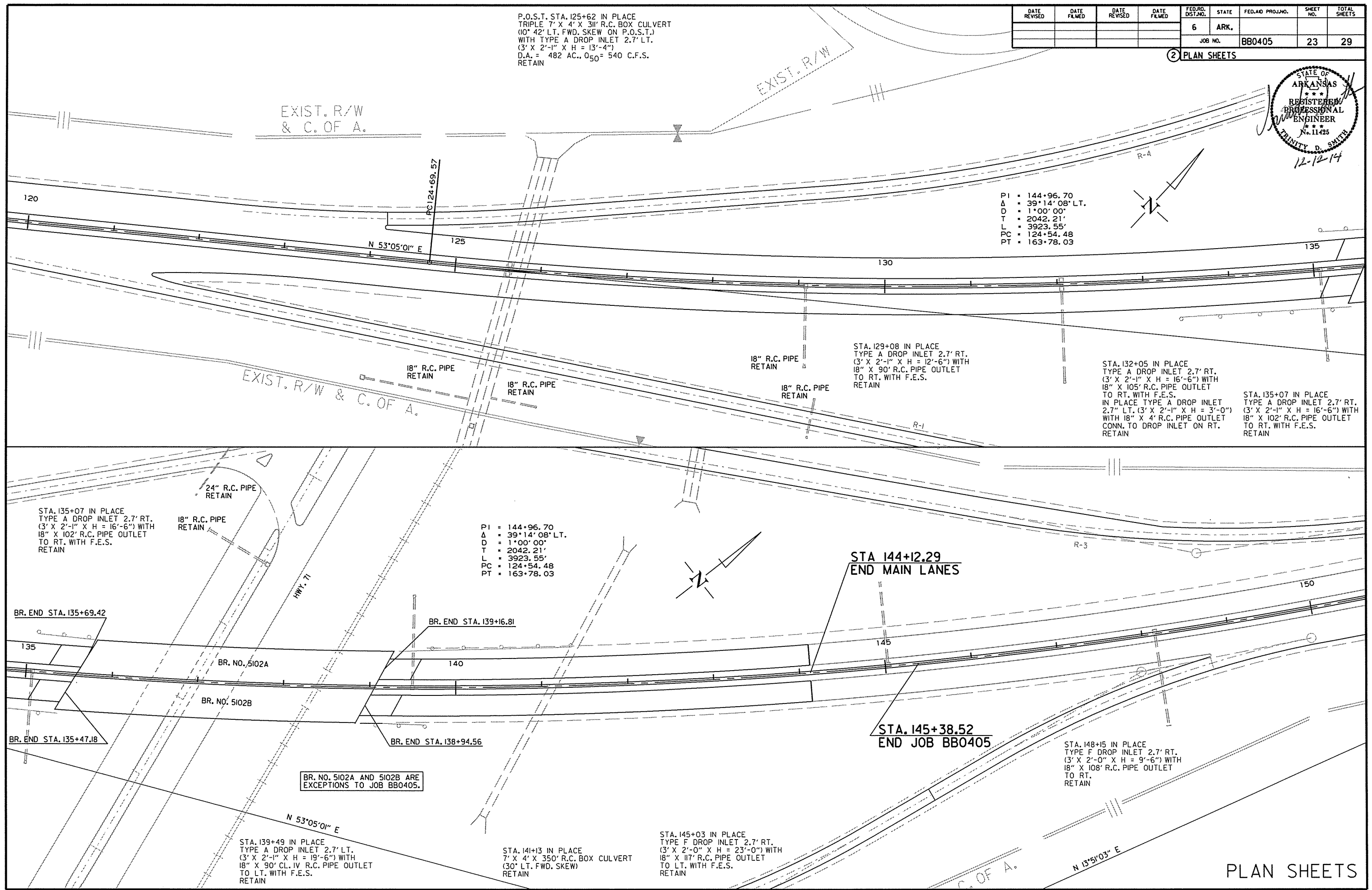
P.O.S.T. STA. 125+62 IN PLACE
 TRIPLE 7' X 4' X 311' R.C. BOX CULVERT
 (10' 42' LT. FWD. SKEW ON P.O.S.T.)
 WITH TYPE A DROP INLET 2.7' LT.
 (3' X 2'-1" X H = 13'-4")
 D.A. = 482 AC., $O_{50} = 540$ C.F.S.
 RETAIN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AD PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		23	29
				JOB NO. BB0405				

2 PLAN SHEETS



PI = 144+96.70
 Δ = 39°14'08" LT.
 D = 1°00'00"
 T = 2042.21'
 L = 3923.55'
 PC = 124+54.48
 PT = 163+78.03



EXIST. R/W & C.O.F. A.

EXIST. R/W

24" R.C. PIPE RETAIN

18" R.C. PIPE RETAIN

18" R.C. PIPE RETAIN

18" R.C. PIPE RETAIN

18" R.C. PIPE RETAIN

STA. 129+08 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 12'-6") WITH
 18" X 90' R.C. PIPE OUTLET
 TO RT. WITH F.E.S.
 RETAIN

STA. 132+05 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 16'-6") WITH
 18" X 105' R.C. PIPE OUTLET
 TO RT. WITH F.E.S.
 IN PLACE TYPE A DROP INLET
 2.7" LT. (3' X 2'-1" X H = 3'-0")
 WITH 18" X 4' R.C. PIPE OUTLET
 CONN. TO DROP INLET ON RT.
 RETAIN

STA. 135+07 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 16'-6") WITH
 18" X 102' R.C. PIPE OUTLET
 TO RT. WITH F.E.S.
 RETAIN

STA. 135+07 IN PLACE
 TYPE A DROP INLET 2.7' RT.
 (3' X 2'-1" X H = 16'-6") WITH
 18" X 102' R.C. PIPE OUTLET
 TO RT. WITH F.E.S.
 RETAIN

18" R.C. PIPE RETAIN

PI = 144+96.70
 Δ = 39°14'08" LT.
 D = 1°00'00"
 T = 2042.21'
 L = 3923.55'
 PC = 124+54.48
 PT = 163+78.03

STA 144+12.29
 END MAIN LANES

STA. 145+38.52
 END JOB BB0405

STA. 148+15 IN PLACE
 TYPE F DROP INLET 2.7' RT.
 (3' X 2'-0" X H = 9'-6") WITH
 18" X 108' R.C. PIPE OUTLET
 TO RT.
 RETAIN

STA. 139+49 IN PLACE
 TYPE A DROP INLET 2.7' LT.
 (3' X 2'-1" X H = 19'-6") WITH
 18" X 90' CL. IV R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 RETAIN

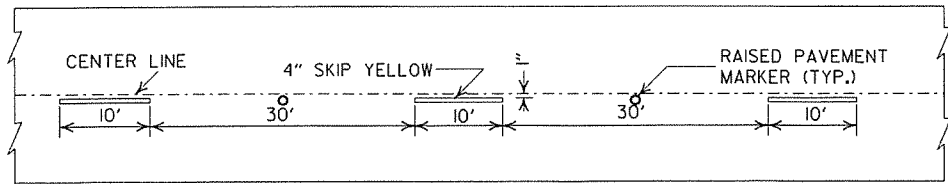
STA. 141+13 IN PLACE
 7' X 4' X 350' R.C. BOX CULVERT
 (30' LT. FWD. SKEW)
 RETAIN

STA. 145+03 IN PLACE
 TYPE F DROP INLET 2.7' RT.
 (3' X 2'-0" X H = 23'-0") WITH
 18" X 117' R.C. PIPE OUTLET
 TO LT. WITH F.E.S.
 RETAIN

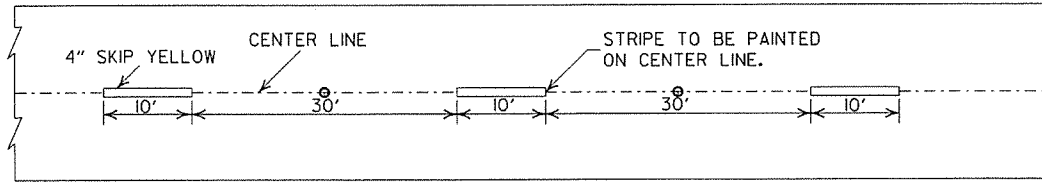
BR. NO. 5102A AND 5102B ARE
 EXCEPTIONS TO JOB BB0405.

12/8/2014
 RB0405.DGN

PLAN SHEETS

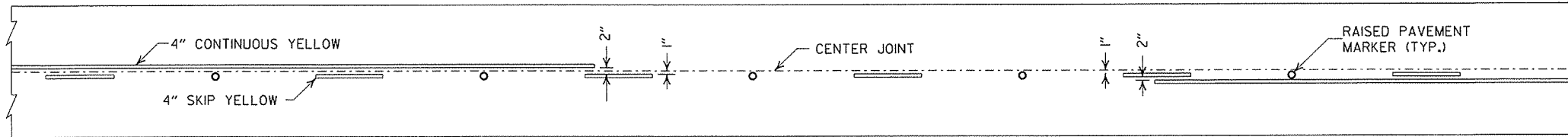


CONCRETE PAVEMENT

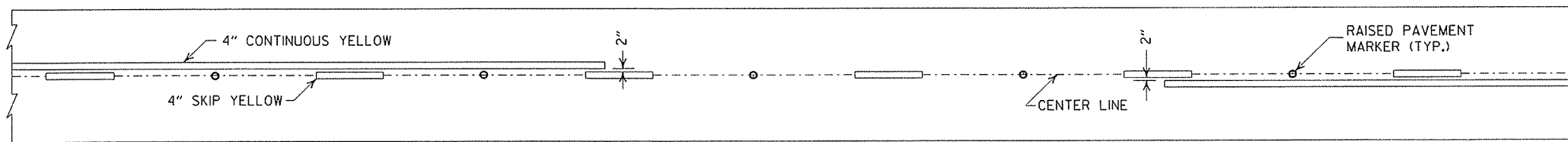


ASPHALT PAVEMENT

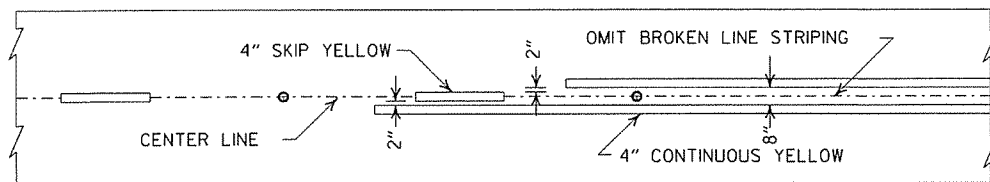
BROKEN LINE STRIPING



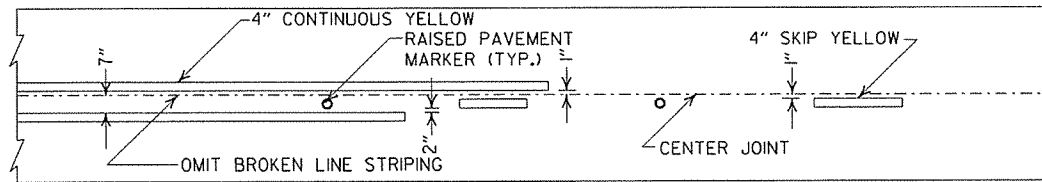
SOLID LINE STRIPING ON CONCRETE PAVEMENT



SOLID LINE STRIPING ON ASPHALT PAVEMENT

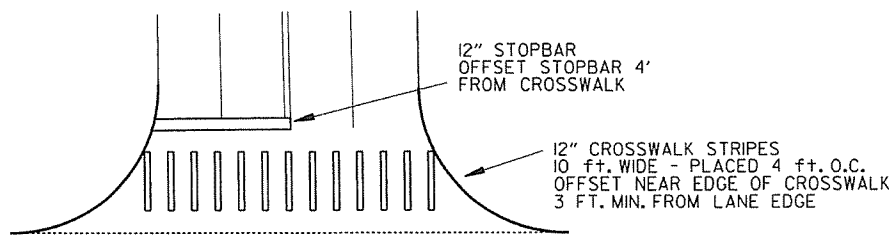


ASPHALT PAVEMENT



CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

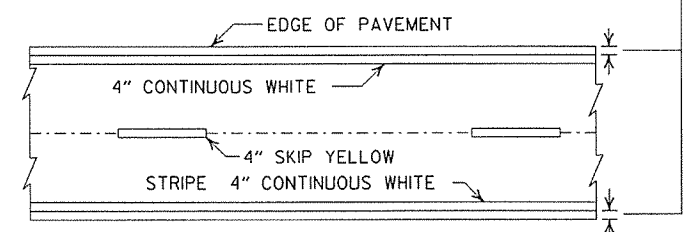


CROSSWALK AND STOPBAR DETAILS

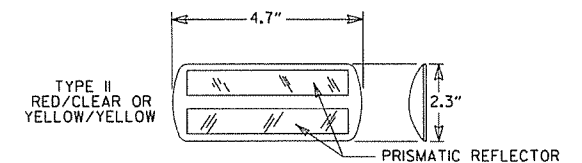
NOTES:

1. ALL LINES SHALL HAVE A WIDTH OF 4 INCHES.
2. THE THICKNESS AND RATE OF PAINT APPLICATION SHALL BE AS SPECIFIED IN SECTION 718 OF THE STANDARD SPECIFICATIONS.
3. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
4. RAISED PAVEMENT MARKERS SHALL BE CENTERED BETWEEN SKIP LINES ON 40 FEET SPACING UNLESS OTHERWISE SHOWN ON THE PLANS.

2" FOR ASPHALT OR CONCRETE PAVEMENT
6" FOR BITUMINOUS SURFACE TREATMENT



PAVEMENT EDGE LINE MARKING



NOTE:
THE RED LENS OF THE
TYPE II R.P.M. SHALL
FACE THE INCORRECT
TRAFFIC MOVEMENT.



DETAIL OF
STANDARD
RAISED PAVEMENT MARKERS

GENERAL NOTES:

THIS DRAWING SHOULD BE CONSIDERED AS TYPICAL ONLY AND THE FINAL LOCATION OF THE STRIPING AND RAISED PAVEMENT MARKERS SHALL BE DETERMINED BY THE ENGINEER.

THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION.

NOTE:
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 AHTD QUALIFIED PRODUCTS LIST.

DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
11-17-10	REVISED GENERAL NOTES & REMOVED PLOWABLE PVMT MRKRS	
11-18-04	REVISED NOTE 2 & GENERAL NOTES	
8-22-02	ADDED CROSSWALK & STOPBAR DTLS.	
7-02-98	ADDED DETAILS OF STD. RAISED PAV'T. MARKERS	
4-26-96	REV. NOTES 3&4; ADDED R.P.M.	
9-30-80	DRAWN	1-9-30-80

ARKANSAS STATE HIGHWAY COMMISSION

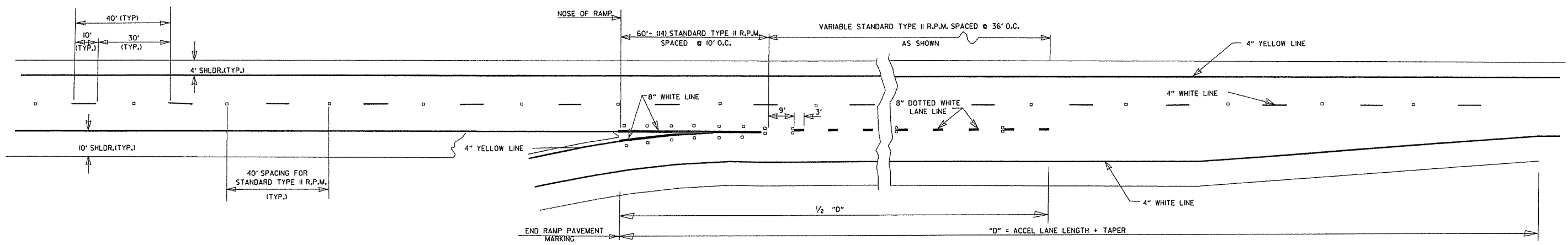
PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

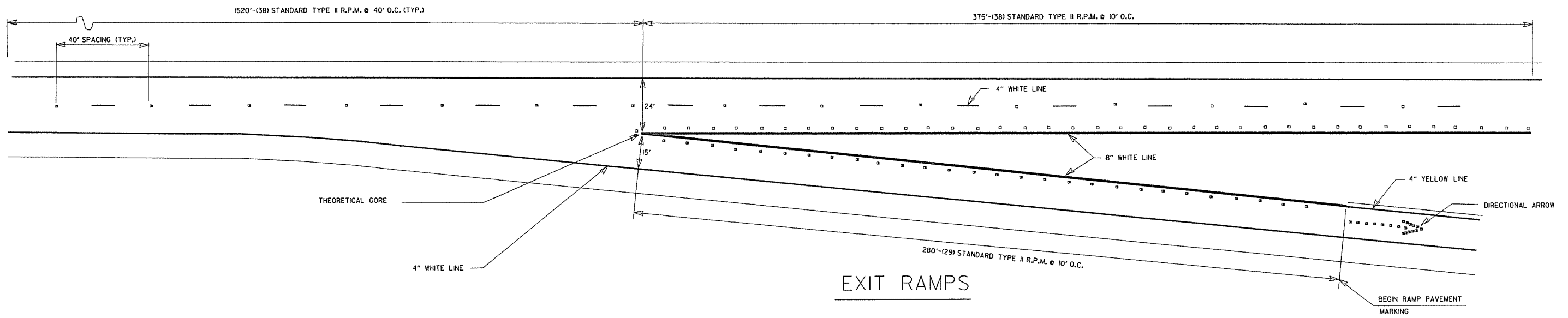
PAVEMENT MARKING QUANTITIES
(BASED ON 700' ACCEL. LANE + 300' TAPER)

ENTRANCE RAMP
8" WHITE = 228 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH

EXIT RAMP
4" WHITE = 280 LIN. FT.
8" WHITE = 655 LIN. FT.
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 48 EACH
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED) = 38 EACH



ENTRANCE RAMPS

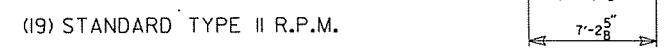
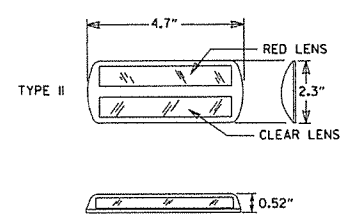


EXIT RAMPS

GENERAL NOTES:
THIS DRAWING SHOULD BE CONSIDERED AS TYPICAL ONLY AND THE FINAL LOCATION OF THE STRIPING AND PAVEMENT MARKERS SHALL BE DETERMINED BY THE ENGINEER.

THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST REVISION.

NOTE:
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 AHTD QUALIFIED PRODUCTS LIST.




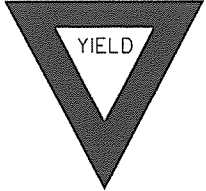
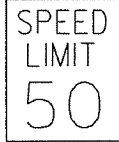
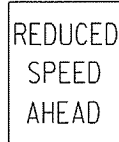





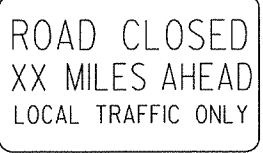
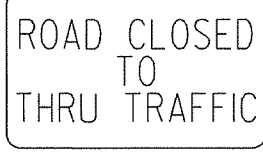
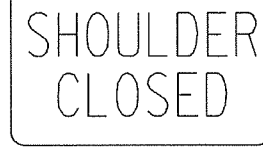
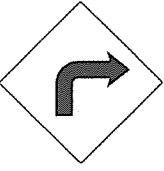

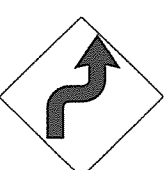

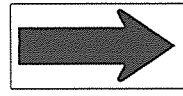
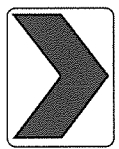
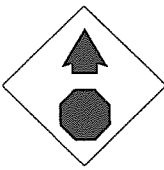
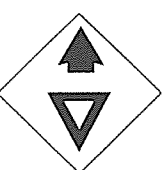
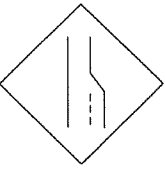

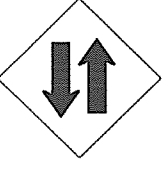
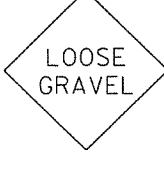
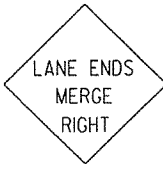








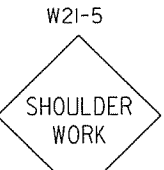
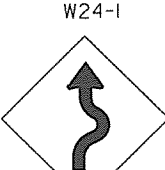
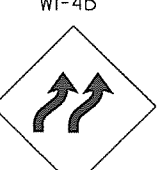


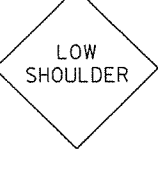
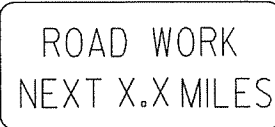
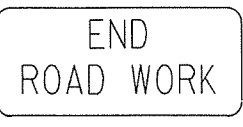
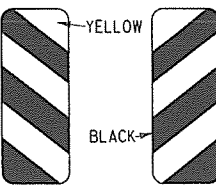
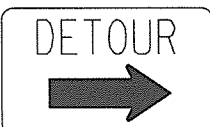

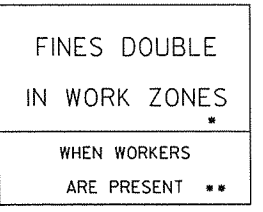
DETAIL OF STANDARD RAISED PAVEMENT MARKERS

(19) STANDARD TYPE II R.P.M. DIRECTIONAL ARROWS

NOTE:
THE RED LENS OF THE TYPE II R.P.M. SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.

DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS	
7-26-12	REVISED RPM NOTATION	
12-15-11	REVISED RPMs ACCORDING TO LATEST POLICY	
11-17-10	REMOVED PLOWABLE PAVEMENT MARKERS	
6-3-10	REVISED PER 2009 MUTCD	
11-18-04	REVISED NOTES	
8-22-02	ADDED & REVISED NOTES; REV. ENTRANCE & EXIT RAMPS	
5-18-00	REMOVED HASHMARKS	
7-02-98	CHANGED TYPES TO ROMAN NUMERALS	
4-26-96	ADDED DIMENSIONS & QUANTITIES; REVISED LANE WIDTH ON EXIT RAMP	
2-2-95	PLACED IN USE	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION
PERMANENT PAVEMENT MARKING
ON ACCESS CONTROLLED ROADWAYS
STANDARD DRAWING PM-2

<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>STD. 36"x36" FWY. 48"x48"</p>	<p>W21-2</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W21-5</p>  <p>STD. 30"x30" SPECIAL 36"x36"</p>	<p>W24-1</p>  <p>STD. 36"x36"</p>
<p>WI-4b</p>  <p>STD. 48"x48"</p>	<p>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>				

ADVANCE DISTANCES (XXXX)

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

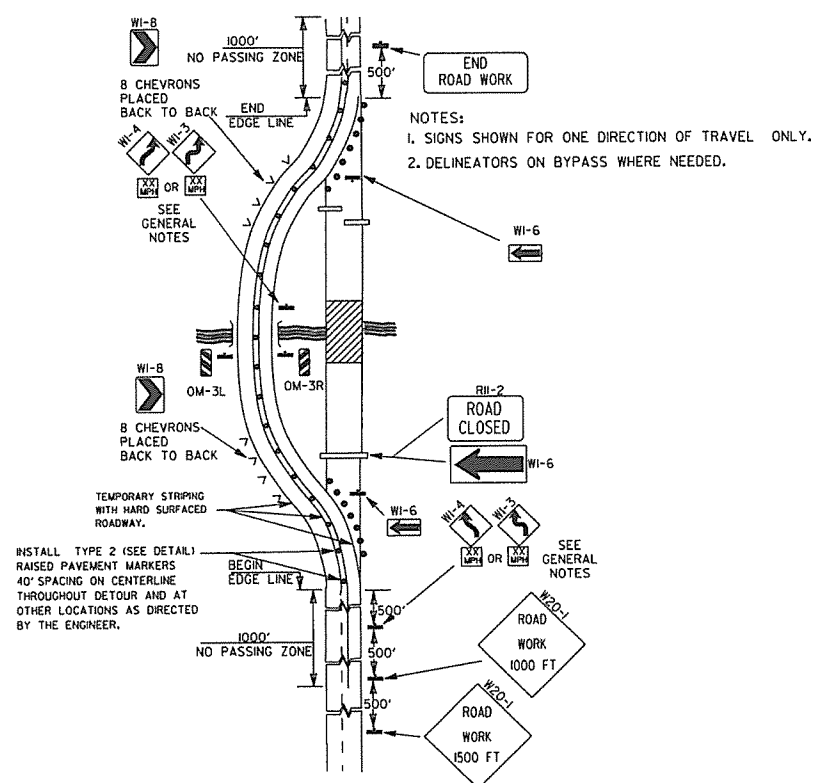
GENERAL NOTES:

- ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
- EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
- SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
- SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
- POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
- ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
- FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
- MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
- R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

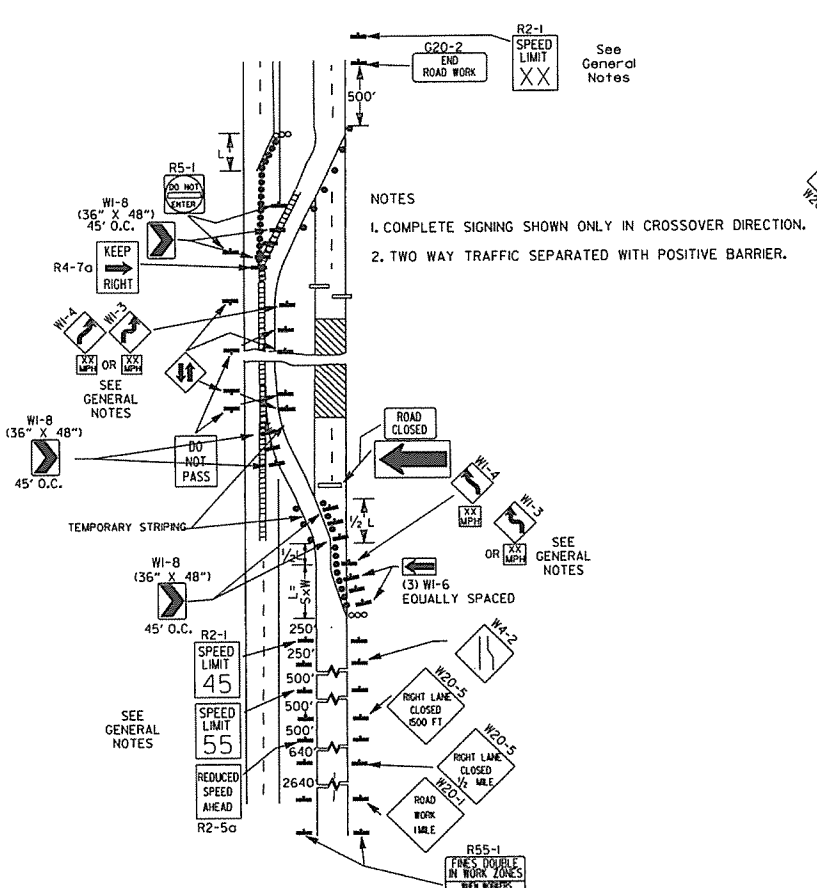
* NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY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

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

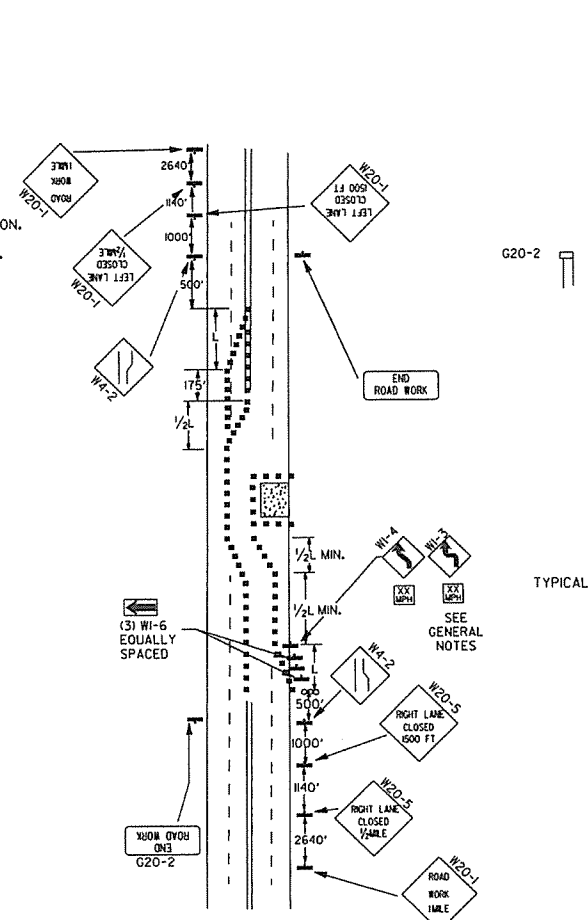
ARKANSAS STATE HIGHWAY COMMISSION
STANDARD TRAFFIC CONTROLS
FOR HIGHWAY CONSTRUCTION
STANDARD DRAWING TC-1



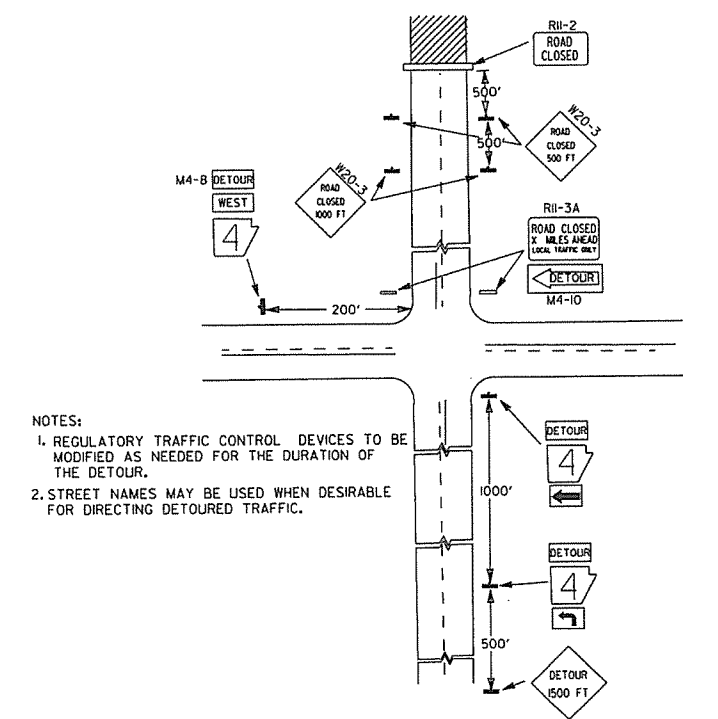
(A) TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ON A 2-LANE HIGHWAY WHERE THE ENTIRE ROADWAY IS CLOSED AND A BYPASS DETOUR IS PROVIDED.



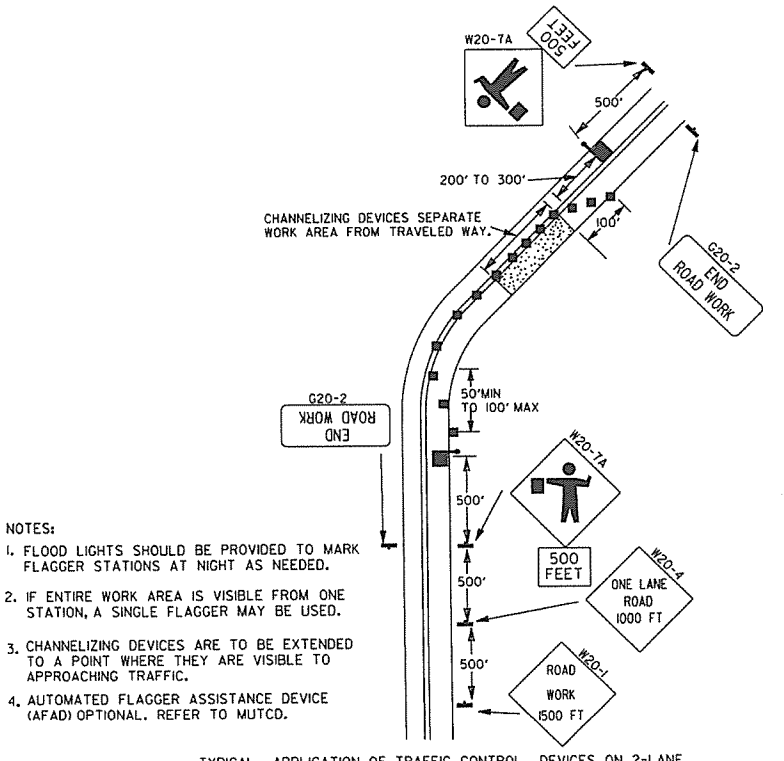
(B) TYPICAL APPLICATION - 4-LANE DIVIDED ROADWAY WHERE ONE ROADWAY IS CLOSED.



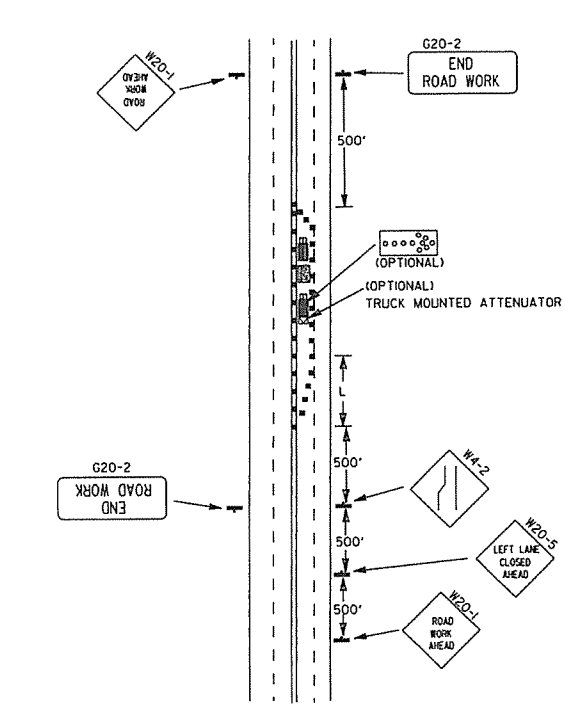
(C) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WHERE HALF OF THE ROADWAY IS CLOSED.



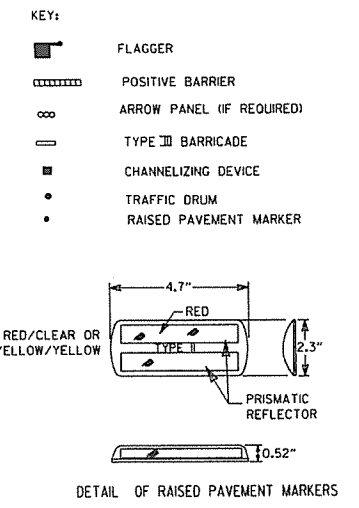
(D) TYPICAL APPLICATION - ROADWAY CLOSED BEYOND DETOUR POINT.



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



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

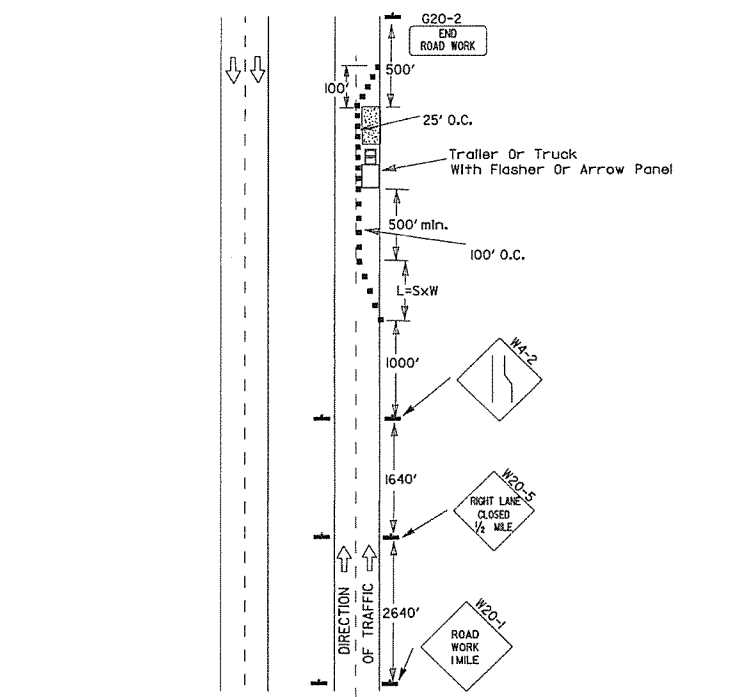


TYPICAL ADVANCE WARNING SIGN PLACEMENT

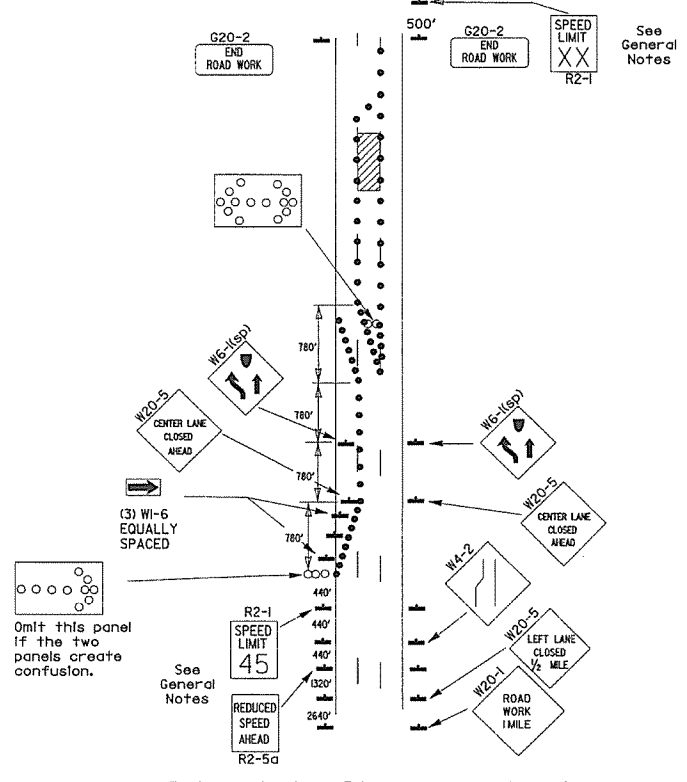
TAPER FORMULAE:
 $L = SXW$ FOR SPEEDS OF 45MPH OR MORE.
 $L = \frac{WS^2}{60}$ FOR SPEEDS OF 40MPH OR LESS.
 WHERE:
 L = MINIMUM LENGTH OF TAPER.
 S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85TH PERCENTILE SPEED.
 W = WIDTH OF OFFSET.

- GENERAL NOTES:
- ADVISORY SPEED POSTED ON W-3 OR W-4 CURVE WARNING SIGNS TO BE DETERMINED AT SITE. USE W-4 WHEN SPEED IS GREATER THAN 30MPH AND W-3 WHEN 30MPH OR LESS.
 - WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-(K55) SHALL BE OMITTED AND THE R2-5A SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-(KXX) 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-(K65) SHALL BE OMITTED. ADDITIONAL R2-155MPH SPEED LIMIT SIGNS SHALL BE INSTALLED AT A MAXIMUM OF 1MILE INTERVALS. AT THE END OF THE WORK AREA A R2-(KXX) SHALL BE INSTALLED TO MATCH ORIGINAL SPEED LIMIT.
 - THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT. BEYOND THE TAPER, MAXIMUM SPACING SHALL BE TWO TIMES THE SPEED LIMIT, OR AS DIRECTED BY THE ENGINEER.
 - WARNING LIGHTS AND/OR FLAGS MAY BE MOUNTED TO SIGNS OR CHANNELIZING DEVICES AT NIGHT AS NEEDED.
 - PAVEMENT MARKINGS NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
 - TRAILER MOUNTED DEVICES SUCH AS ARROW PANELS AND PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DELINEATED BY AFFIXING CONSPICUITY MATERIAL IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER. WHEN PLACED ON OR ADJACENT TO THE SHOULDER AND NOT BEHIND A POSITIVE BARRIER, THESE DEVICES SHALL BE DELINEATED BY PLACING FIVE (5) TRAFFIC DRUMS, EQUALLY SPACED ALONG THE TRAFFIC SIDE OF THE DEVICE.

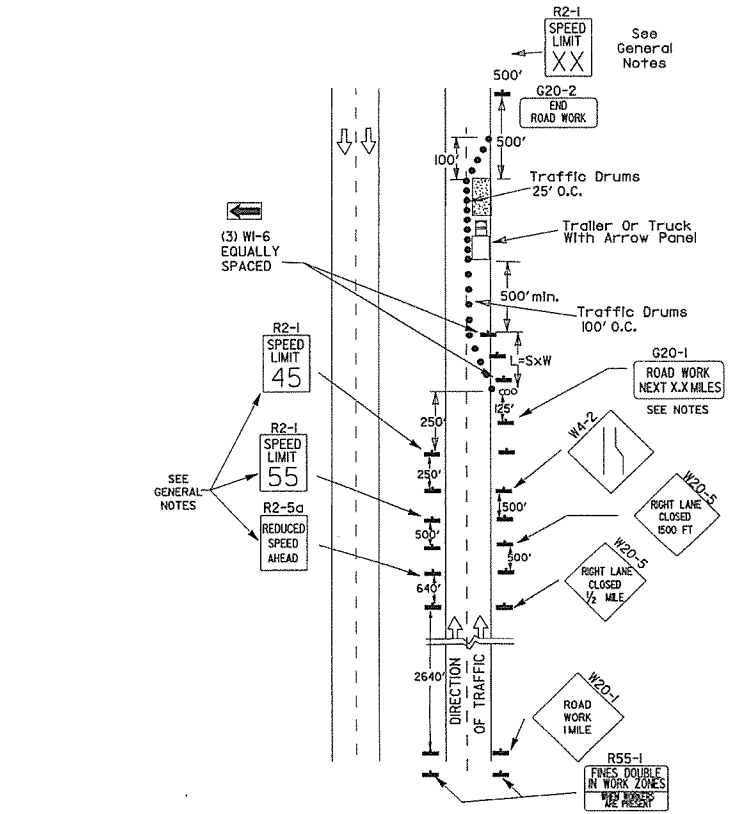
DATE	REVISION	FILMED
9-12-13	REVISED DETAIL OF RAISED PAVEMENT MARKERS	
3-11-10	ADDED (AFAD)	
11-20-08	REVISED SIGN DESIGNATIONS	
11-18-04	ADDED GENERAL NOTE	
10-18-96	ADDED R55-1	
4-26-96	CORRECTED (G) BEHIND G20-2	
6-8-95	CORRECTED SIGN IDENT. ON W-4A	6-8-95
2-2-95	REVISED PER PART VI MUTCD, SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	



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

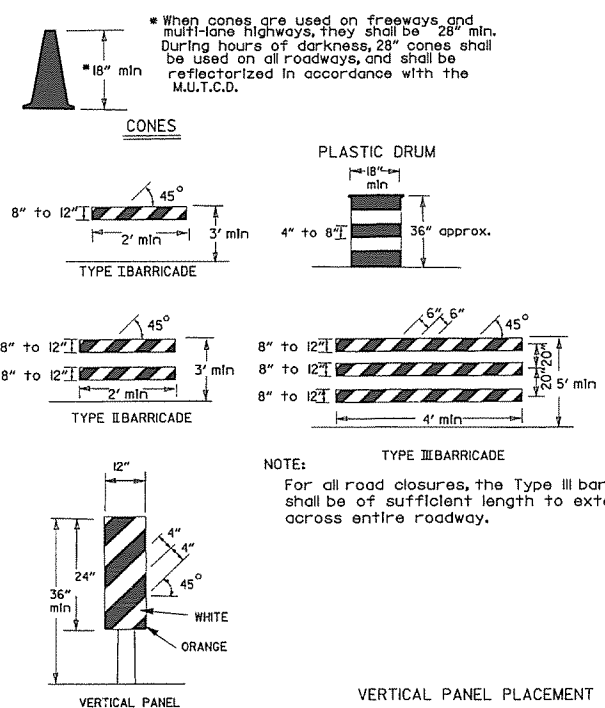


(B) Typical application - 3-lane oneway roadway where center lane is closed.



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

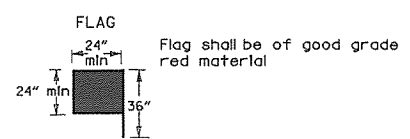
Channelizing devices



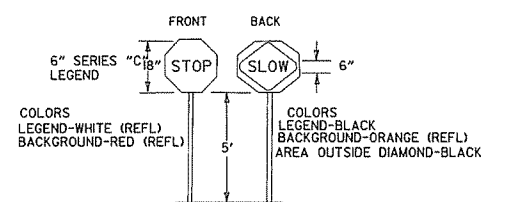
TRAFFIC CONTROL DEVICES FOR VERTICAL PAVEMENT DIFFERENTIALS

VERTICAL DIFFERENTIAL	LOCATIONS	TRAFFIC CONTROL
1" to 3"	Centerline, lane lines	W8-11
1" to 3"	Edge of shoulder	W8-9
Greater than 3"	Lane lines	Standard lane closure required
Greater than 3"	Edge of traveled lane	*RSP-lane 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.



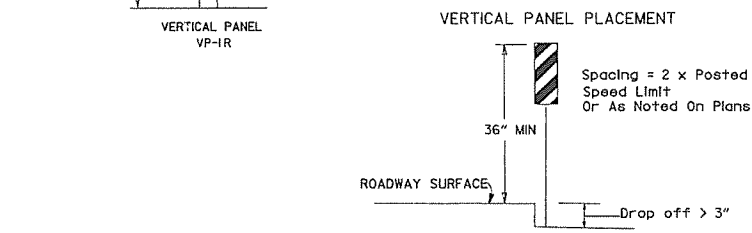
STOP SLOW PADDLE



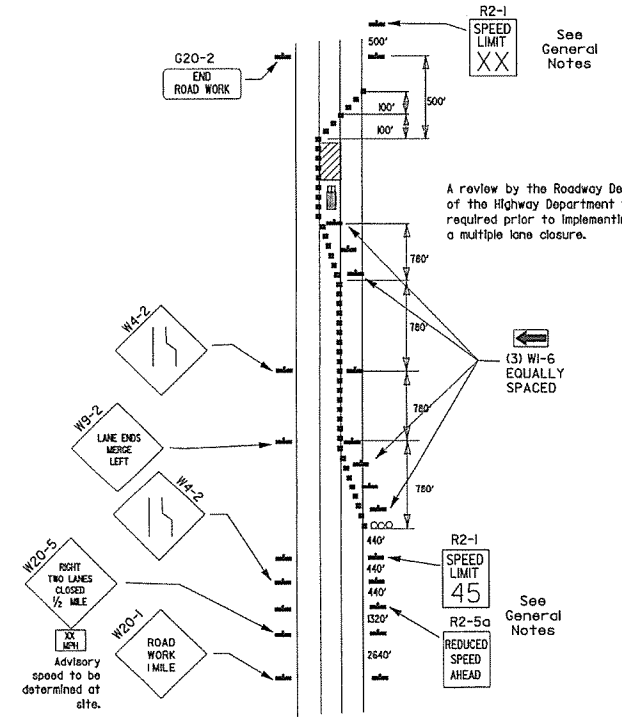
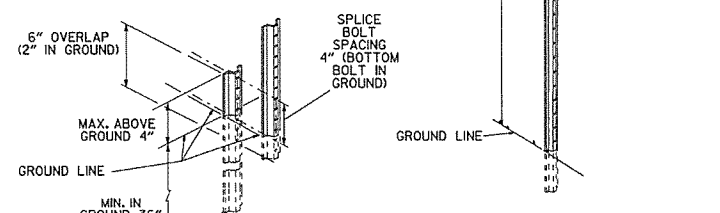
- KEY:
- Arrow Panel (if Required)
 - Channelizing Device
 - Traffic drum

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 R2-1(55) shall be omitted and the R2-5a shall be installed at that location. Additional R2-1(45) speed limit signs shall be installed at a maximum of 1 mile intervals. At the end of the work area a R2-1XX shall be installed to match original speed limit.
- When the existing speed limit is 65mph and the plans require a speed limit of 55mph, the R2-1(65) shall be omitted and the R2-1(55) speed limit signs shall be installed at a maximum of 1 mile intervals. At the end of the work area a R2-1XX shall be installed to match original speed limit.
- The maximum spacing between channelizing devices in a taper should be approximately equal in feet to the speed limit. Beyond the taper, maximum spacing shall be two times the speed limit or as directed by the Engineer.
- Warning lights and/or flags may be mounted to signs or channelizing devices at night as needed.
- Pavement markings no longer applicable which might create confusion in the minds of vehicle operators shall be removed or obliterated as soon as practicable.
- The G20-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-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.

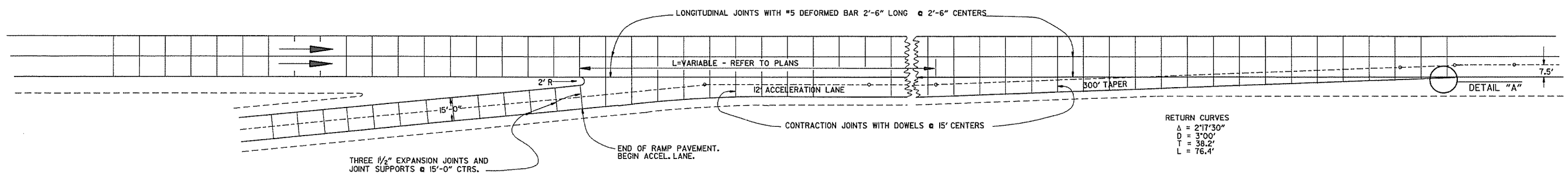


NOTES: USE SPLICES ONLY WHEN NECESSARY FOR INSTALLATION. TYPICAL INSTALLATION SHOULD HAVE NO SPLICES (SEE STD. DRAWING NO. SHS-2) NORMAL INSTALLATIONS WILL REQUIRE 1/4" DIA. BOLTS TO MOUNT SIGNS TO POST AND 5/16" DIA. BOLTS TO ASSEMBLE THE VARIOUS POST SUPPORTS. EACH OF THESE BOLTS SHALL BE CARRIAGE BOLTS. SIGN POSTS SHALL BE PAINTED GREEN; SIGNS SHALL NOT BE PAINTED, AND ALL SIGN POSTS SHALL BE PLUMB.



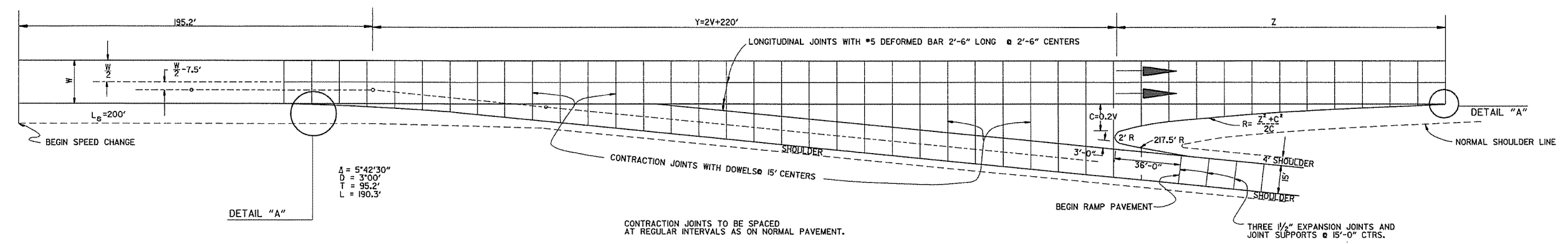
(D) Typical application - closing multiple lanes of a multilane highway.

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



ENTRANCE RAMP

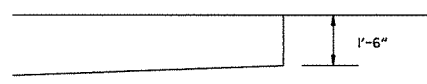
NOTE: JOINT SPACING ON THE MAIN LANES SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO THESE JOINT LAYOUTS. THE MAIN LANE JOINT SPACING MAY BE REDUCED TO A 12' MINIMUM.



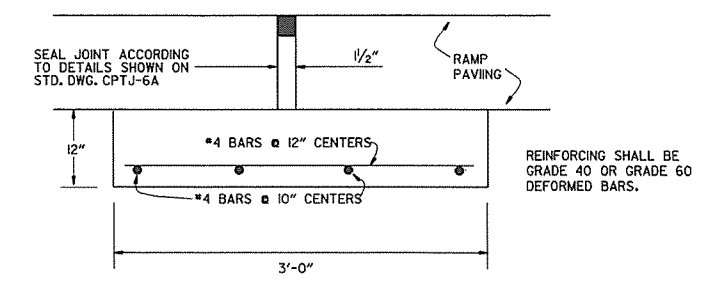
EXIT RAMP

EXIT RAMP

DESIGN SPEED V	Y	NOSE OFFSET C	LENGTH NOSE TAPER Z	RETURN RADIUS R	ADDITIONAL SURFACING SQ. YDS.
40	300.0	8.0	96.0	580.0	602.43
50	320.0	10.0	120.0	725.0	687.29
60	340.0	12.0	168.0	1182.0	790.55
70	360.0	14.0	210.0	1582.0	902.27



DETAIL "A"



DETAIL OF EXPANSION JOINT & JOINT SUPPORT

NOTE: THE EXPANSION JOINTS SHALL BE MEASURED AND PAID FOR AS P.C.C. PAVEMENT (RAMP THICKNESS), WHEN RAMP PAVING IS ASPHALT, EXPANSION JOINT IS NOT REQUIRED. THE JOINT SUPPORT MAY BE CONSTRUCTED WITH CLASS "A", "S", OR PAVING CONCRETE. PAYMENT FOR THE JOINT SUPPORT SHALL BE FOR THE CONTRACT UNIT PRICE BID FOR THE CLASS OF CONCRETE USED. ALL OTHER WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE JOINT SUPPORT SHALL BE INCLUDED IN THE PRICE BID FOR THE ABOVE ITEMS.

DATE	REVISION	DATE FILED
8-22-02	DELETED NOTE	
11-16-01	CORRECTED SPELLING ON ENTRANCE RAMP NOTE	
5-13-99	ADDED, EDITED AND DELETED NOTES	
11-03-94	ADDED NOTE RE: REINF. BARS	
10-1-92	ADDED DETAIL "A" & OTHER MINOR CHANGES	10-1-92
1-25-90	REVISED EXPANSION JOINT	1-25-90
7-15-88	CONFORM D TO 1988 SPECIFICATIONS	68C-7-15-88
3-2-81	ISSUED	511-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF STANDARD TURNOUT

FOR

ENTRANCE & EXIT RAMPS (NON-REINFORCED)

STANDARD DRAWING TR-1A