DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	PROJ.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	1	83
				②	OVERHEAD SIGN STRS. & SIGNS REPLACEMENT (CENTRAL AR) (S)			

ARKANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS FOR STATE HIGHWAY

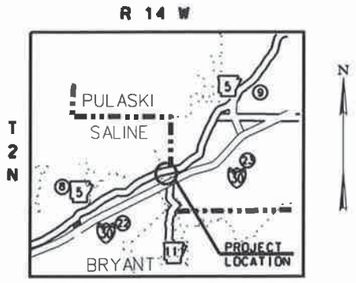
OVERHEAD SIGN STRS. & SIGNS REPLACEMENT (CENTRAL AR) (S)

GARLAND, SALINE & PULASKI COUNTIES
VARIOUS ROUTES

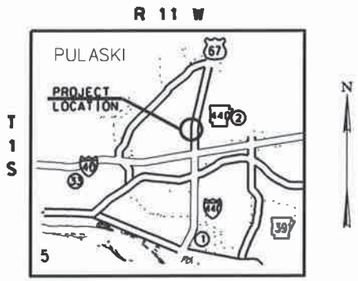
JOB 061709

FED. AID PROJ. STPF-0076(240)

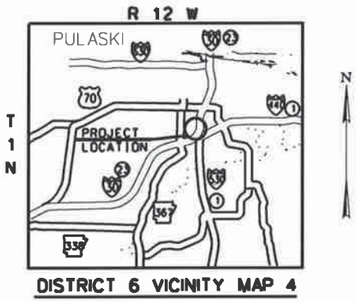
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DISTRICT 6 VICINITY MAP 2



DISTRICT 6 VICINITY MAP 3



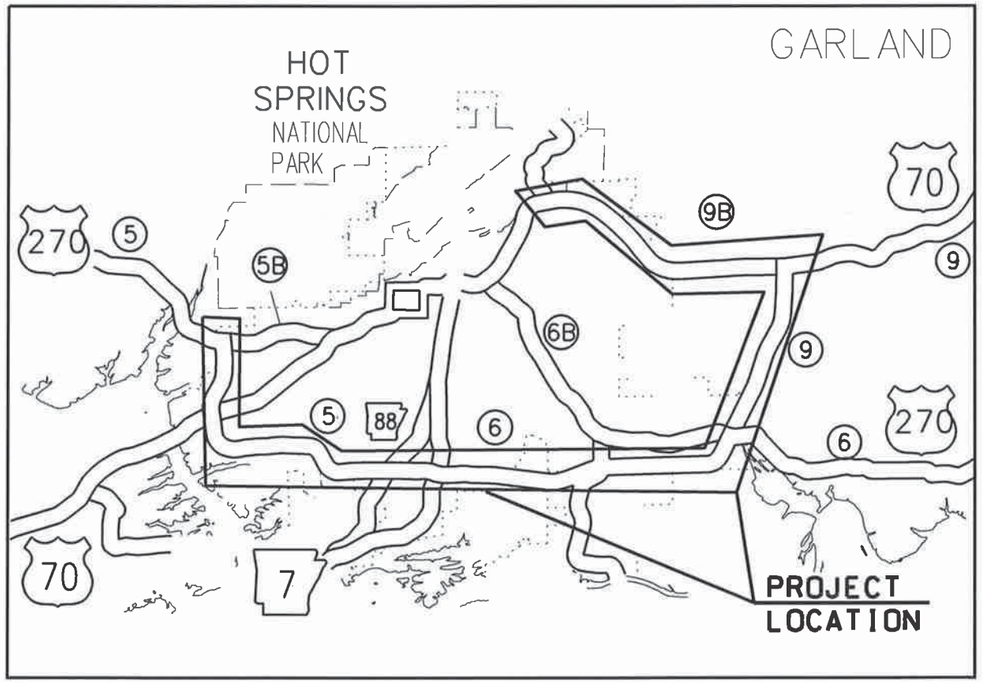
DISTRICT 6 VICINITY MAP 4

PROJECT LOCATIONS

DISTRICT 6 - GARLAND COUNTY
ROUTE 70, SECTION 9, LOG MILE 0.0 - 3.0
ROUTE 70B, SECTION 9B, LOG MILE 1.50 - 5.50
ROUTE 270, SECTION 5, LOG MILE 17.90 - 22.80
ROUTE 270, SECTION 6, LOG MILE 0.0 - 4.10

DISTRICT 6 - SALINE COUNTY
ROUTE 30, SECTION 22, LOG MILE 125.88

DISTRICT 6 - SALINE COUNTY
ROUTE 30, SECTION 23, LOG MILE 138.10
ROUTE 440, SECTION 2, LOG MILE 2.86



DISTRICT 6 VICINITY MAP 1



ARK. HWY. DIST. NO. 6



APPROVED

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 10045
KELVIN REX VINES

Rex Vines
Digitally signed by Rex Vines
Date: 2021.04.15 12:31:16 -05'00'

DEPUTY DIRECTOR
AND CHIEF ENGINEER

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO		061709	2	83

② INDEX OF SHEETS & STD DRAWINGS

INDEX OF SHEETS

SHEET NO.	TITLE	STR.NO.	DRWG.NO.
1	TITLE SHEET		
2	INDEX OF SHEETS AND STANDARD DRAWINGS		
3	GOVERNING SPECIFICATIONS AND GENERAL NOTES		
4 - 5	SPECIAL DETAILS		
6	TEMPORARY EROSION CONTROL DETAILS		
7 - 12	MAINTENANCE OF TRAFFIC DETAILS		
13	QUANTITIES		
14	SUMMARY OF QUANTITIES AND REVISIONS		
15	SIGNING SUMMARY OF QUANTITIES		
16 - 19	SIGNING QUANTITIES		
20 - 40	SIGN PLACEMENT SHEETS		
41 - 73	SIGN LAYOUT SHEETS		
74	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 1 OF 5)	OC-440-60-52, OC-030-62-26	63942
75	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 2 OF 5)	OC-440-60-52, OC-030-62-26	63943
76	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 3 OF 5)	OC-440-60-52, OC-030-62-26	63944
77	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 4 OF 5)	OC-440-60-52, OC-030-62-26	63945
78	DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE (SHEET 5 OF 5)	OC-440-60-52, OC-030-62-26	63946
79	DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE (SHEET 1 OF 5)	OH-030-60-67	63947
80	DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE (SHEET 2 OF 5)	OH-030-60-67	63948
81	DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE (SHEET 3 OF 5)	OH-030-60-67	63949
82	DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE (SHEET 4 OF 5)	OH-030-60-67	63950
83	DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE (SHEET 5 OF 5)	OH-030-60-67	63951

ROADWAY STANDARD DRAWINGS

DRWG.NO.	TITLE	DATE
GR-6	GUARDRAIL DETAILS	11-07-19
GR-7	GUARDRAIL DETAILS	11-07-19
GR-8	GUARDRAIL DETAILS	11-07-19
GR-9	GUARDRAIL DETAILS	11-07-19
GR-10	GUARDRAIL DETAILS	11-07-19
GR-11	GUARDRAIL DETAILS	11-07-19
GR-12	GUARDRAIL DETAILS	05-14-20
SD-5	CONTROLLER CABINET UTILITY DRAWER	09-12-13
SD-6	HEAVY DUTY PULL BOX	11-16-17
SD-9	SERVICE POINT	11-07-19
SD-12	SERVICE POINT INSTALLATION WITH SUPPLEMENTAL GROUNDING ARRAY	11-07-19
SHS-1	STANDARD HIGHWAY SIGNS AND SUPPORTS ASSEMBLIES	09-12-13
SHS-2	U-CHANNEL POST ASSEMBLIES	07-25-19
SHS-3	DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS	09-12-13
SHS-4	DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS	09-12-13
SHS-5	DETAILS OF GUIDE SIGN PANELS	09-12-13
SHS-6	MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS	09-12-13
SHS-7	DETAIL OF OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS	09-12-13
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11-07-19
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	02-27-20
TC-4	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TC-5	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION-TEMPORARY PRECAST BARRIER	11-07-19
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11-16-17
TEC-3	TEMPORARY EROSION CONTROL DEVICES	11-03-94

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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INDEX OF SHEETS AND STANDARD DRAWINGS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	3	83

② GOVERNING SPECIFICATIONS AND GENERAL NOTES

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
108-1_____	LIQUIDATED DAMAGES
108-2_____	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
210-1_____	UNCLASSIFIED EXCAVATION
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
600-2_____	INCIDENTAL CONSTRUCTION
603-1_____	LANE CLOSURE NOTIFICATION
604-1_____	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
604-3_____	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
617-1_____	GUARDRAIL TERMINAL (TYPE 2)
620-1_____	MULCH COVER
700-2_____	TRAFFIC CONTROL FACILITIES
723-1_____	GENERAL REQUIREMENTS FOR SIGNS
730-1_____	BREAKAWAY SIGN SUPPORT
JOB 061709_	ASSESSMENT OF WORKING DAYS - MAINTENANCE OF TRAFFIC
JOB 061709_	BIDDING REQUIREMENTS AND CONDITIONS
JOB 061709_	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB 061709_	CARGO PREFERENCE ACT REQUIREMENTS
JOB 061709_	CONSTRUCTION IN SPECIAL FLOOD HAZARD AREAS
JOB 061709_	COORDINATION OF WORK
JOB 061709_	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB 061709_	ESTABLISHING CONTRACT TIME - WORKING DAY CONTRACT
JOB 061709_	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB 061709_	MAINTENANCE OF TRAFFIC
JOB 061709_	MANDATORY ELECTRONIC CONTRACT
JOB 061709_	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB 061709_	MODIFICATION OF EXISTING OVERHEAD SIGN STRUCTURE
JOB 061709_	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT
JOB 061709_	PARTNERING REQUIREMENTS
JOB 061709_	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB 061709_	SOIL STABILIZATION
JOB 061709_	SPECIAL SAFETY REQUIREMENTS FOR OVERHEAD SIGNS
JOB 061709_	STEEL SIGN STRUCTURES
JOB 061709_	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB 061709_	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
JOB 061709_	UTILITY ADJUSTMENTS
JOB 061709_	VALUE ENGINEERING
JOB 061709_	WARM MIX ASPHALT

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. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.

6. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI

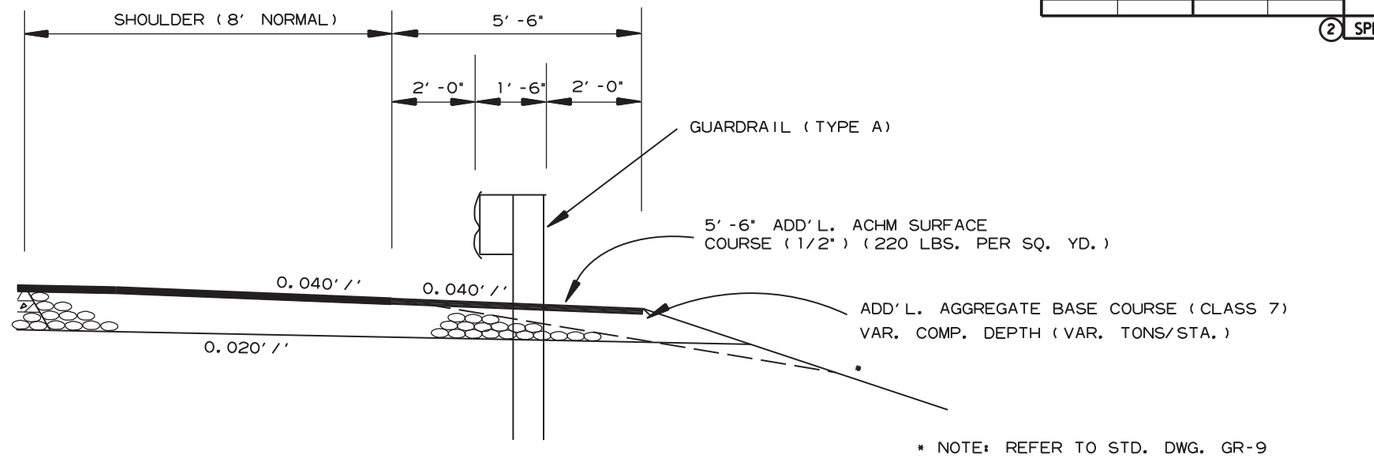
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				6	ARK.			
				JOB NO.		061709	4	83

(2) SPECIAL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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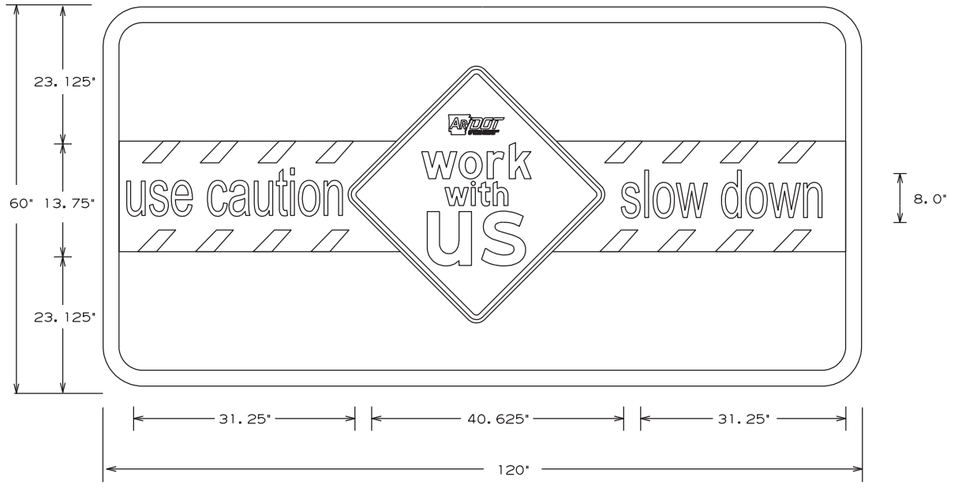
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WIDENING FOR GUARDRAIL

GUARDRAIL INSTALLATION LOCATIONS

ROUTE	LOG MILE	SIDE	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
270	18.29 WB	RT.	150'	1	1
270	19.24 WB	RT.	275'	1	1



2" WHITE BORDER, 2" RADII, GREEN BACKGROUND
"use caution/slow down" 5.31" NIVEAU GROTESK, REGULAR FONT x 1.5Y
"work with us" FRUTIGER LT 75 BLACK FONT

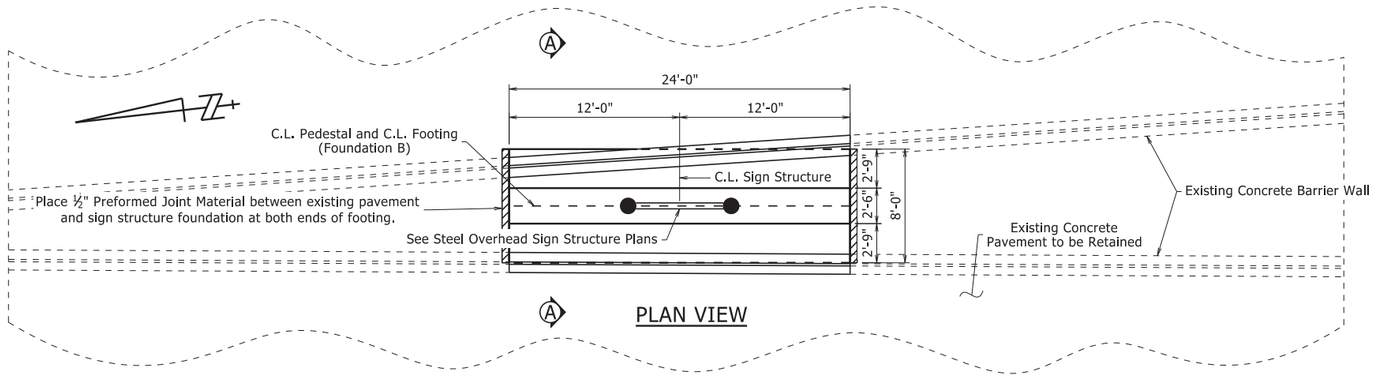
NOTE: DIGITAL ART WORK FILE AVAILABLE FROM ARDOT MAINTENANCE DIVISION SIGN SHOP 501-569-2665.
THIS SIGN SHALL BE PLACED 2640' PRECEDING THE FIRST ADVANCE WARNING SIGN, IN THE DIRECTION OF TRAFFIC.

WORK WITH US SIGN

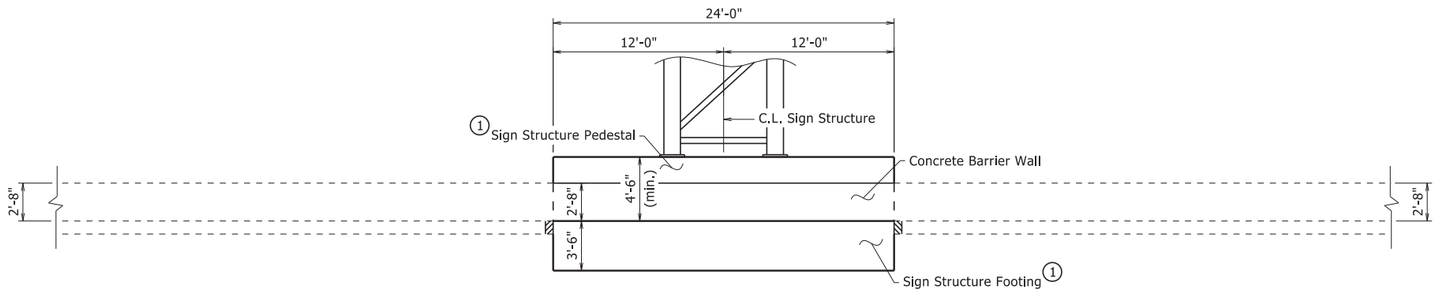
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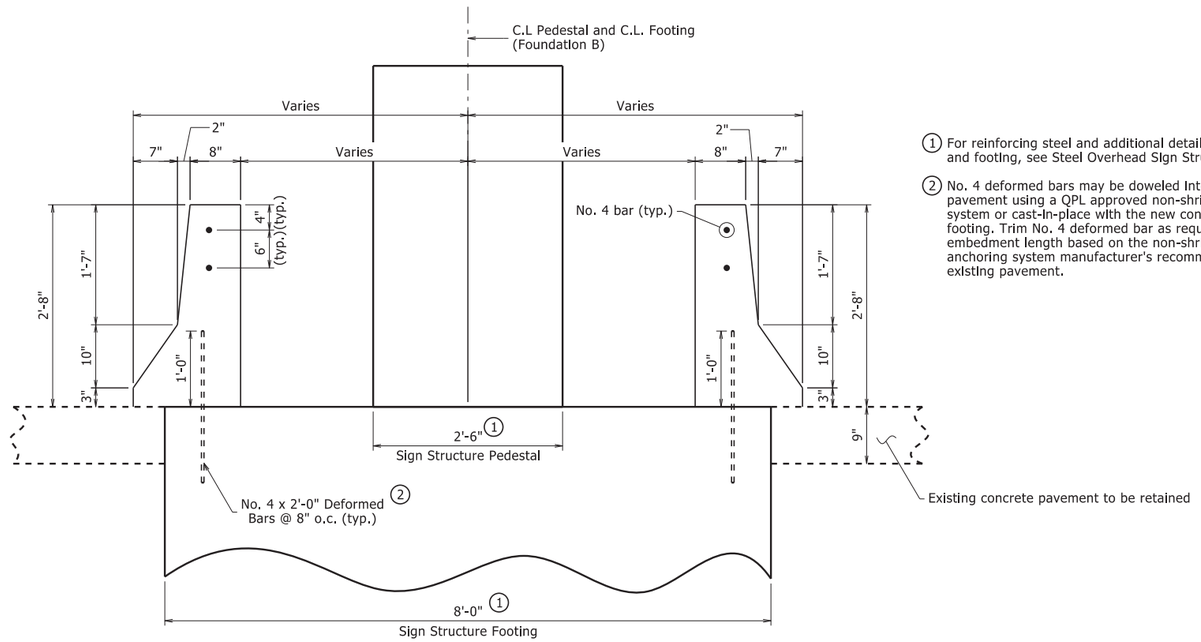
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				JOB NO.		061709	5	83
				①		SPECIAL DETAILS		



PLAN VIEW



ELEVATION VIEW



① For reinforcing steel and additional details of sign support pedestal and footing, see Steel Overhead Sign Structure plans.

② No. 4 deformed bars may be doweled into existing concrete pavement using a QPL approved non-shrink grout or resin anchoring system or cast-in-place with the new concrete sign structure footing. Trim No. 4 deformed bar as required to provide minimum embedment length based on the non-shrink grout or resin anchoring system manufacturer's recommendations if doweled into existing pavement.

SECTION A-A - CONCRETE BARRIER WALL (MEDIAN TYPE B)

Barrier wall on top of Sign Structure Footing shown. Barrier wall on top of existing pavement similar.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS

Mar 12 2021 12:20 PM

Notes for Concrete Barrier Wall:

Concrete Barrier Walls shall be constructed in accordance with Section 631 of the Standard Specifications and these details.

All exposed corners shall have a ¾" chamfer.

All reinforcing bars shall have 2" minimum concrete end cover.

Dowels shall be placed to provide 3" concrete cover to edge of the footing.

Preformed joint material, and removal and disposal of existing pavement for construction of the overhead sign foundation shall be included in the price bid for "Steel Overhead Sign Structure".

Removal of the existing median barrier shall be paid for under the price bid for "Removal & Disposal of Concrete Median Barrier". Length of median barrier removed shall be minimized to that only required to facilitate construction of the new sign foundation and as directed by the Engineer.

Portions of existing concrete barrier wall and existing concrete pavement affected by installation of the new sign structure pedestal & footing and new concrete barrier walls shall be repaired at the direction and to the satisfaction of the Engineer.

Contractor shall make measurements in the field and make any adjustments necessary to fit the sign structure pedestal and footing within concrete barrier walls.

CONCRETE BARRIER WALL
FOR OVERHEAD SIGN STRUCTURE
OH-030-60-67

SPECIAL DETAILS

PRINT DATE: 3/12/2021

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(2) TEMPORARY EROSION CONTROL DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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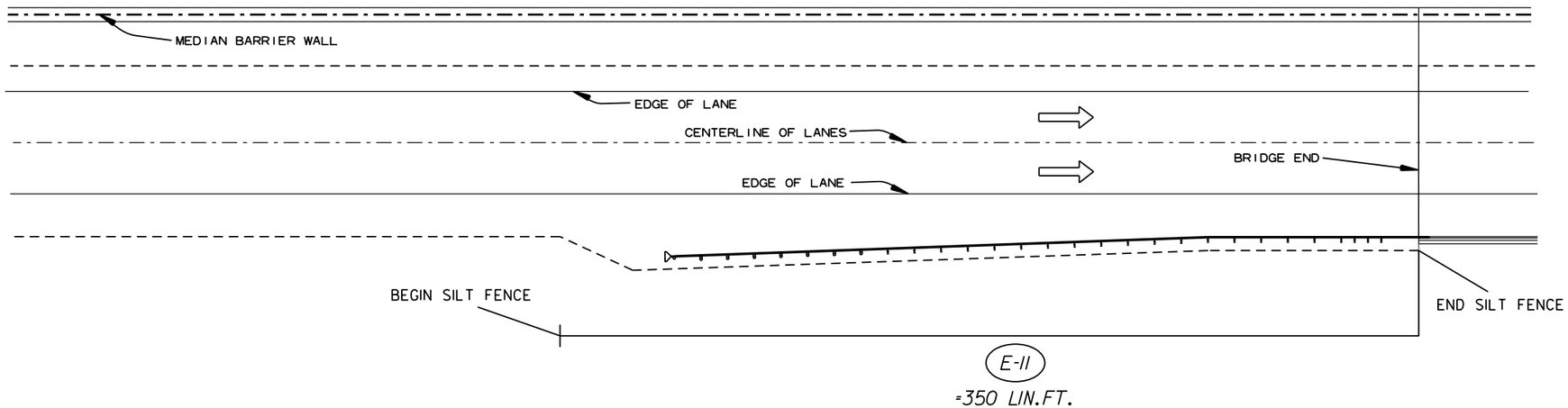
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REVISIONS

DATE OF REVISION	REVISION

LEGEND

E-II = SILT FENCE



TYPICAL SILT FENCE INSTALLATION FOR WIDENING FOR GUARDRAIL AT BRIDGE ENDS

4/1/2021

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TEMPORARY EROSION CONTROL DETAILS

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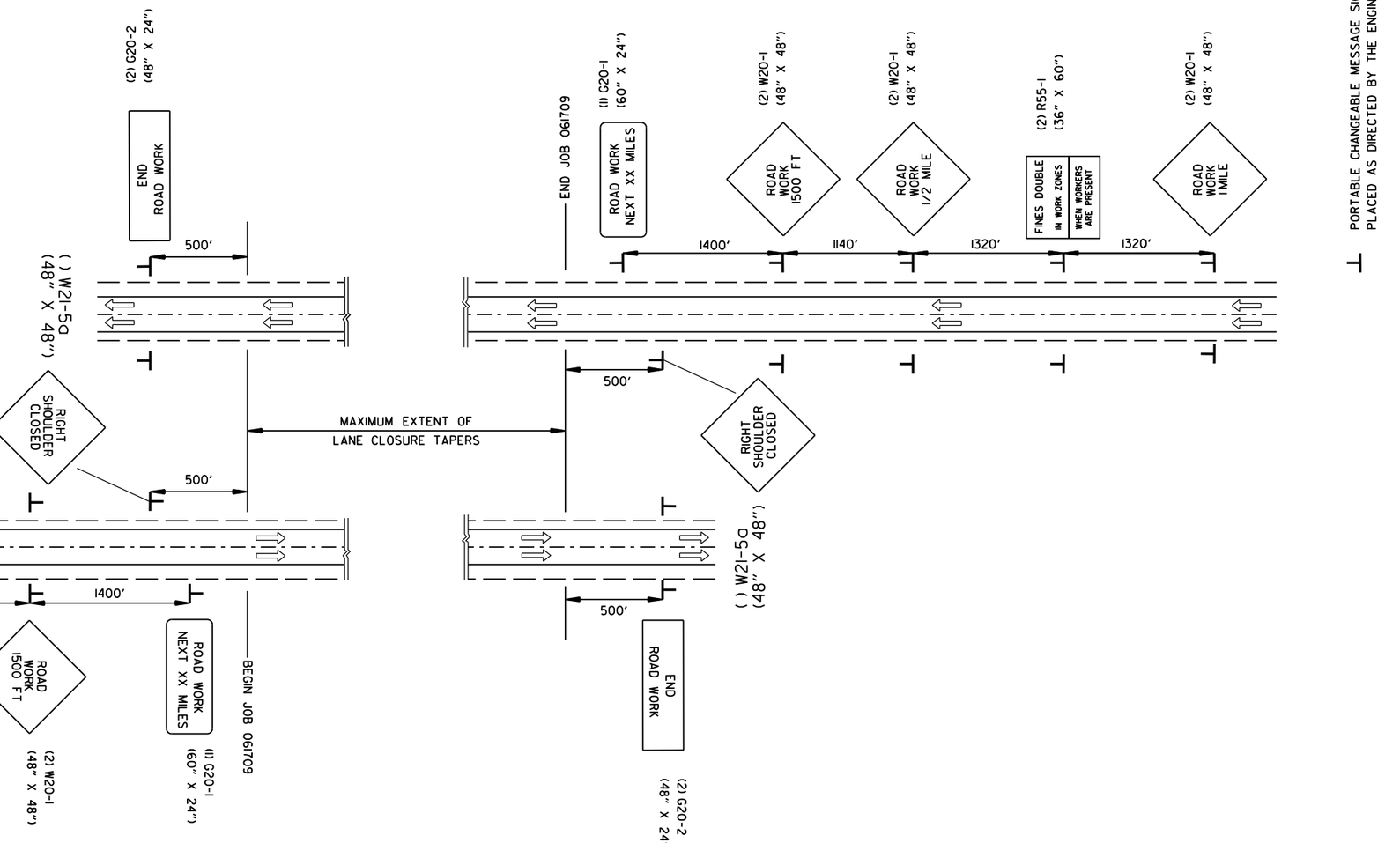
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JOB NO.		061709	7	83

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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ADVANCE WARNING SIGNS AT JOB ENDS

NOTE: ADVANCE WARNING SIGN PLACEMENT WILL BE IDENTICAL FOR 6-LANE SECTIONS OF ROADWAY

3/29/2021

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MAINTENANCE OF TRAFFIC DETAILS

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED

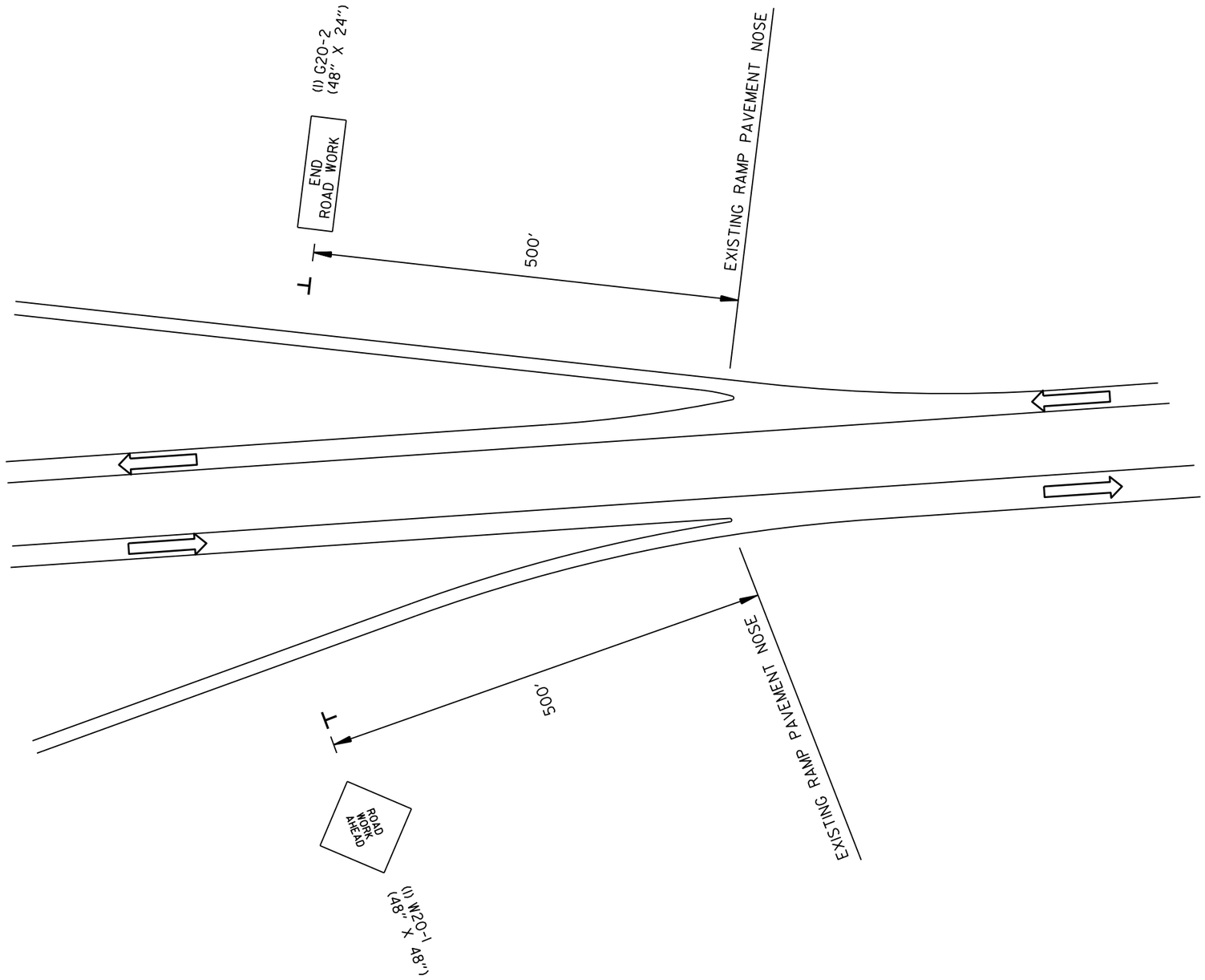
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JOB NO.		061709	8	83

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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ADVANCE WARNING SIGNS
DETAIL OF ENTRANCE AND EXIT RAMPS

3/29/2021

R012343.DGN

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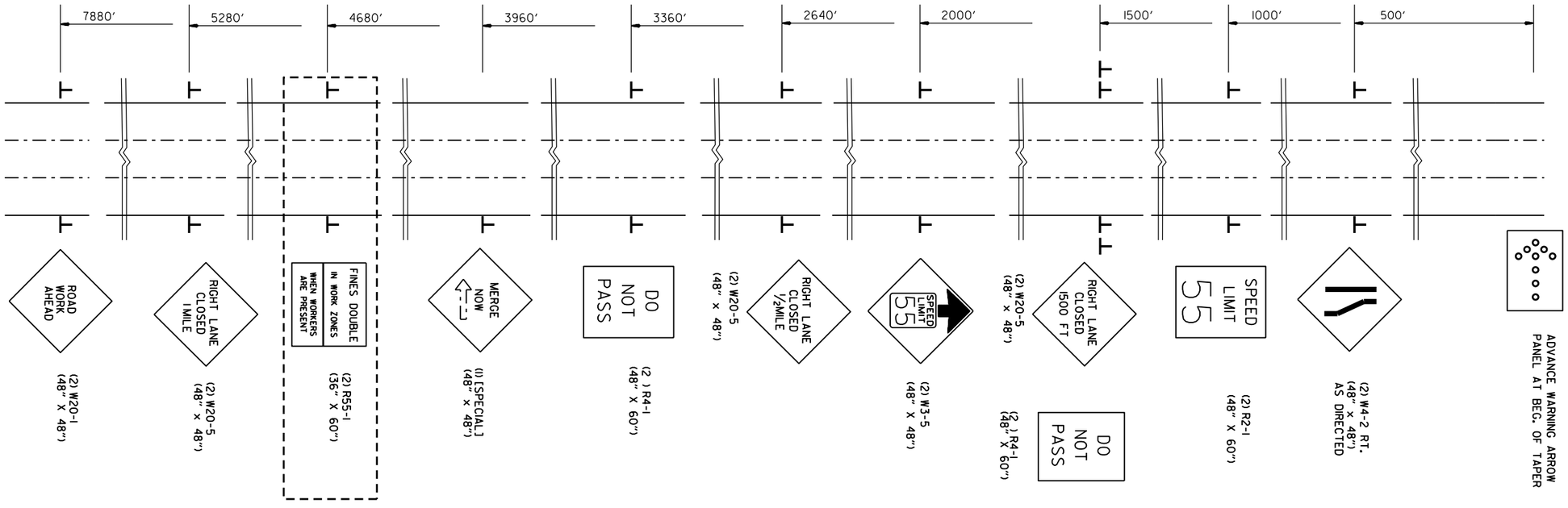
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(2) MAINTENANCE OF TRAFFIC DETAILS

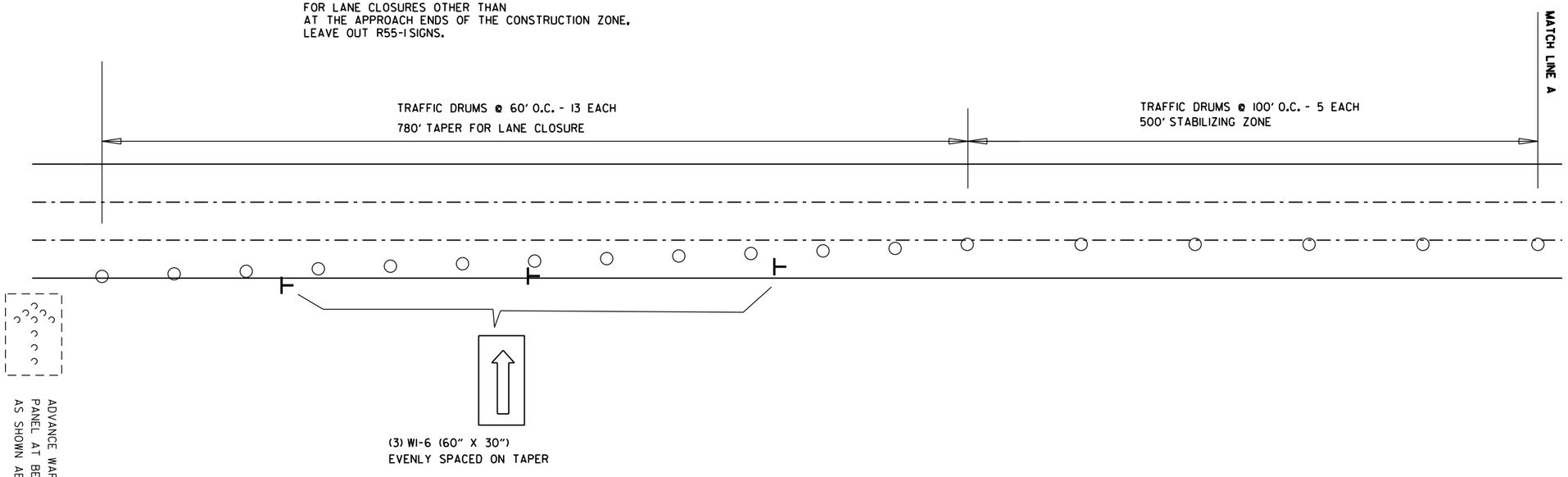
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE,
LEAVE OUT R55-1 SIGNS.



ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM PLACEMENT FOR OUTSIDE LANE CLOSURE

LANE CLOSURE MAINTENANCE OF TRAFFIC DETAILS

3/29/2021

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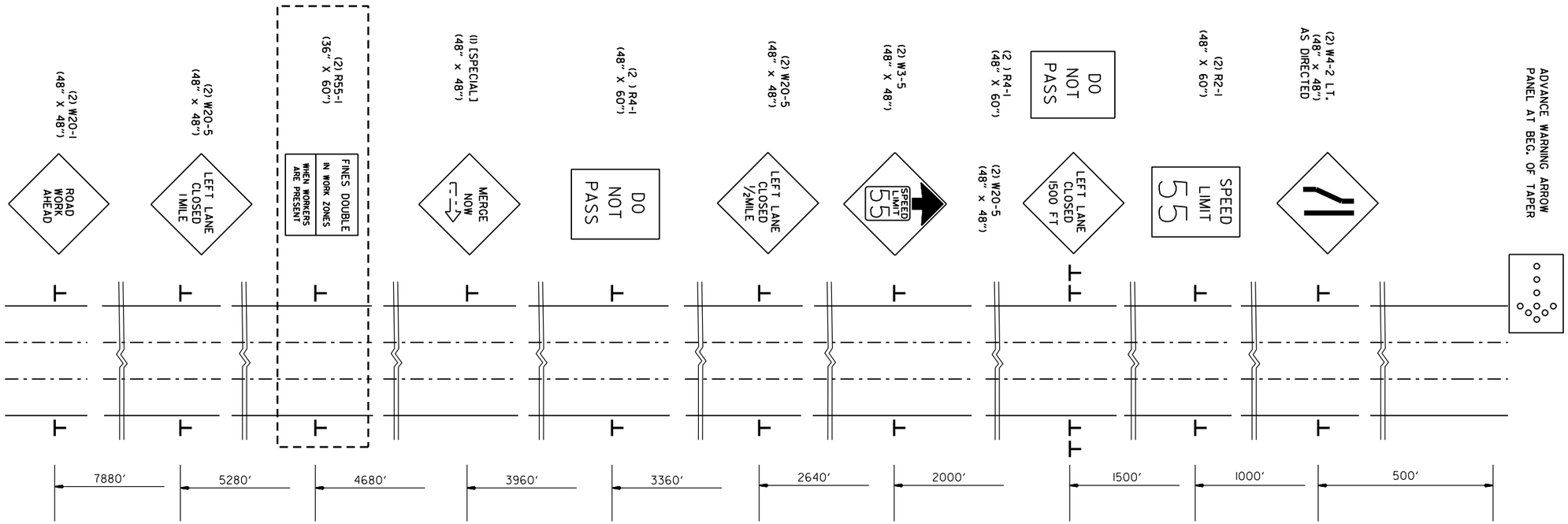
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(2) MAINTENANCE OF TRAFFIC DETAILS

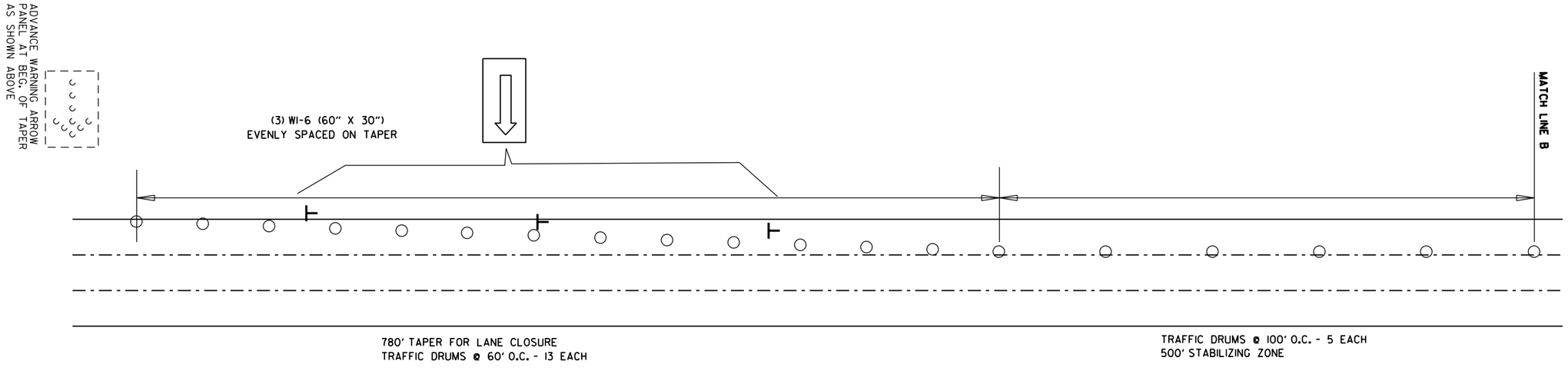
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No. 11425
TRINITY D. SMITH

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NOTE:
FOR LANE CLOSURES OTHER THAN
AT THE APPROACH ENDS OF THE CONSTRUCTION ZONE,
LEAVE OUT R55-1 SIGNS.



ADVANCE WARNING SIGNS & TYPICAL TRAFFIC DRUM LAYOUT FOR INSIDE LANE CLOSURES

LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

3/29/2021

R012343.DGN

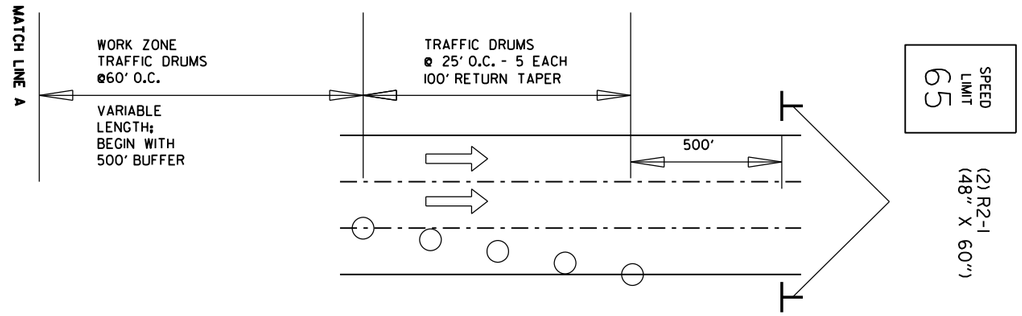
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	11	83

(2) MAINTENANCE OF TRAFFIC DETAILS

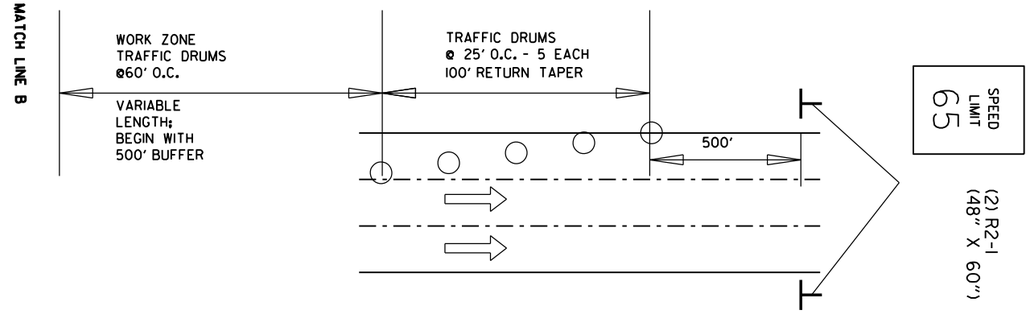
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

Apr 15 2021 11:13 AM

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DIVERSION FOR OUTSIDE LANE CLOSURE



TYPICAL TRAFFIC DRUM LAYOUT
FOR DIVERSION OF LANE CLOSURES

3/29/2021

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LANE CLOSURE
MAINTENANCE OF TRAFFIC DETAILS

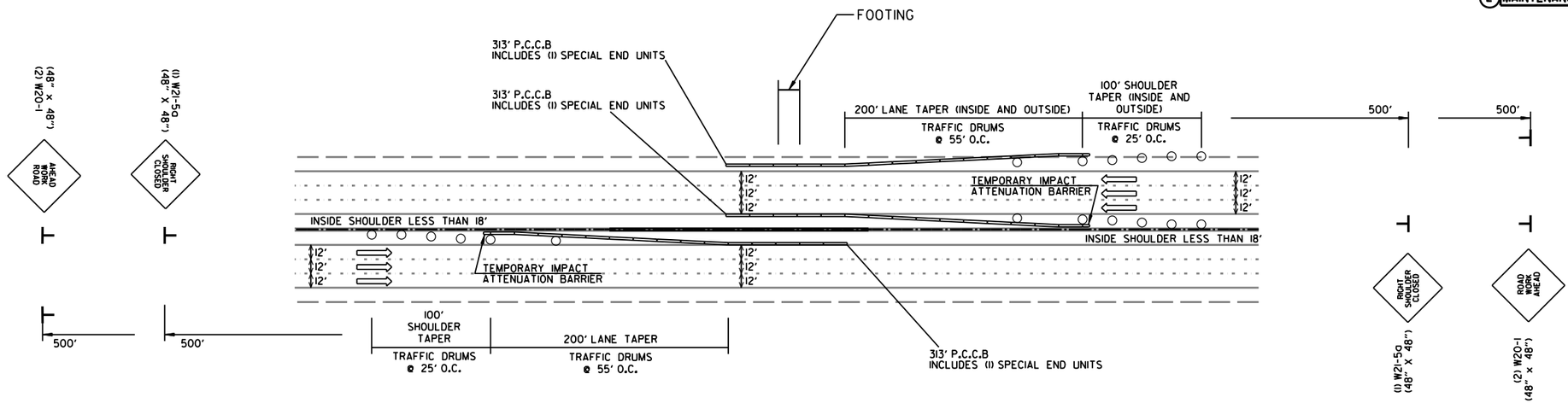
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	12	83

(2) MAINTENANCE OF TRAFFIC DETAILS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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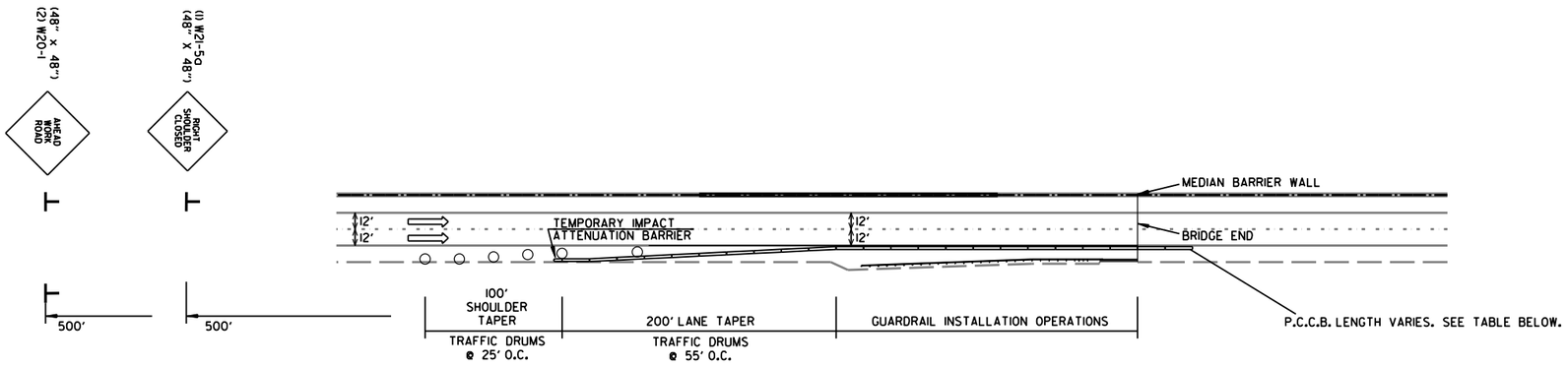
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SIGN STRUCTURE	LOG MILE
OH-030-60-67	138.10 WB

NOTE: DRAWING NOT TO SCALE. NORTH POINT ORIENTATION APPROXIMATED FOR I-30 OVERHEAD SIGN STRUCTURE CONSTRUCTION OPERATIONS.

PRECAST CONCRETE BARRIER WALL PLACEMENT FOR OVERHEAD SIGN STRUCTURE REPLACEMENT



LOG MILE	P.C.C.B. LENGTH
18.29 WB	453'
19.24 WB	573'

NOTE: P.C.C.B. LENGTH INCLUDES (1) SPECIAL END UNIT

NOTE: DRAWING NOT TO SCALE. NORTH POINT ORIENTATION APPROXIMATED FOR HWY. 270 GUARDRAIL INSTALLATION OPERATIONS.

PRECAST CONCRETE BARRIER WALL PLACEMENT FOR GUARDRAIL INSTALLATION OPERATIONS

3/29/2021

R012343.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.		061709	13	83

(2) QUANTITIES

ADVANCE WARNING SIGNS AND DEVICES

SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	FURNISHING & INSTALLING PRECAST CONC. BARRIER	RELOCATING PRECAST CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATION BARRIER	TEMP. IMPACT ATTEN.BARR. (REPAIR)	TEMP. IMPACT ATTEN.BARR. (RELOCATION)	* ADVANCE WARNING ARROW PANEL	* PORTABLE CHANGEABLE MESSAGE SIGN
			LIN. FT. - EACH		NO.	SQ. FT.	EACH	LIN. FT.		EACH			DAY	WEEK
W20-1	ROAD WORK 1500 FT.	48"x48"	12	12	12	192.0								
W20-1	ROAD WORK 1/2 MILE	48"x48"	12	12	12	192.0								
W20-1	ROAD WORK 1 MILE	48"x48"	12	12	12	192.0								
W20-1	ROAD WORK AHEAD	48"x48"	8	8	8	128.0								
G20-2	END ROAD WORK	48"x24"	6	6	6	48.0								
G20-1	ROAD WORK NEXT xx MILES	60"x24"	2	2	2	20.0								
W20-5	RIGHT LANE CLOSED 1 MILE	48"x48"	2	2	2	32.0								
W20-5	RIGHT LANE CLOSED 1/2 MILE	48"x48"	2	2	2	32.0								
W20-5	RIGHT LANE CLOSED 1500 FT	48"x48"	2	2	2	32.0								
W20-5	LEFT LANE CLOSED 1 MILE	48"x48"	2	2	2	32.0								
W20-5	LEFT LANE CLOSED 1/2 MILE	48"x48"	2	2	2	32.0								
W20-5	LEFT LANE CLOSED 1500 FT	48"x48"	2	2	2	32.0								
SPECIAL	MERGE NOW W/ ARROW	48"x48"	1	1	1	16.0								
W4-2L	MERGE LEFT	48"x48"	2	2	2	32.0								
W4-2R	MERGE RIGHT	48"x48"	2	2	2	32.0								
R2-1	SPEED LIMIT 55 MPH	48"X60"	2	2	2	40.0								
R2-1	SPEED LIMIT 65 MPH	48"X60"	2	2	2	40.0								
W1-6	LARGE ARROW	48"x24"	3	3	3	24.0								
W3-5	REDUCE SPEED AHEAD	48"x48"	2	2	2	32.0								
R4-1	DO NOT PASS	24"x30"	4	4	4	20.0								
R55-1	FINES DOUBLE IN WORK ZONES	36"x60"	6	6	6	90.0								
W21-5A	RIGHT SHOULDER CLOSED	48"x48"	4	4	4	48.0								
SPECIAL	WORK WITH US SIGN (USE CAUTION, SLOW DOWN)	120"x60"	2	2	2	100.0								
	TRAFFIC DRUMS		130	130			130							
	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER		626	626				626						
	RELOCATING PRECAST CONCRETE BARRIER		1000	1000					1000					
	TEMPORARY IMPACT ATTENUATION BARRIER		2	2						2				
	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)		4	4							4			
	TEMPORARY IMPACT ATTENUATION BARRIER (RELOCATION)		2	2								2		
	ADVANCE WARNING ARROW PANEL		4	4									4	
	PORTABLE CHANGEABLE MESSAGE SIGN		2	2										2
TOTALS:						**1438.0**	**130**	**626**	**1000**	**2**	**4**	**2**	**4**	**2**

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

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

EROSION CONTROL

STATION	STATION	LOCATION	PERMANENT EROSION CONTROL					TEMPORARY EROSION CONTROL	
			SEEDING	LIME	MULCH COVER	WATER	SECOND SEEDING APPLICATION	SILT FENCE (E-11)	*SEDIMENT REMOVAL & DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	LIN. FT.	CU. YD.
ENTIRE	PROJECT	MAIN LANES	0.75	1.50	0.75	76.5	0.75	700	26
*ENTIRE PROJECT TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.			0.25	0.50	0.25	25.5	0.25	100	4
TOTALS:			**1.00**	**2.00**	**1.00**	**102.0**	**1.00**	**800**	**30**

BASIS OF ESTIMATE:
LIME .....2 TONS / ACRE OF SEEDING
WATER.....102.0 M.G. / ACRE OF SEEDING

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

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

BASE AND SURFACING

LOG MILE	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
MAIN LANES - GUARDRAIL								
18.29	HWY. 270 - GUARDRAIL WIDENING	228.75	106.00	242.48	5.50	139.79	220.00	15.38
18.29	HWY. 270 - GUARDRAIL WIDENING TAPER	33.00	VAR.	17.49	VAR.	10.08	220.00	1.11
19.24	HWY. 270 - GUARDRAIL WIDENING	353.75	106.00	374.98	5.50	216.18	220.00	23.78
19.24	HWY. 270 - GUARDRAIL WIDENING TAPER	33.00	VAR.	17.49	VAR.	10.08	220.00	1.11
TOTALS:				**652.44**		**376.13**		**41.38**

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

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

Apr 15 2021 11:13 AM

DocuSigned by:

REMOVAL AND DISPOSAL OF ITEMS

LOG MILE	LOCATION	BARRIER WALLS	GUARDRAIL
		LIN. FT.	LIN. FT.
18.29	HWY. 270		207
19.24	HWY. 270		200
138.10	I-30 (MEDIAN)	48	
TOTALS:		**48**	**407**

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

CONCRETE BARRIER WALL

LOG MILE	LOCATION	MEDIAN (TYPE B)
		LIN. FT.
138.10 EB	I-30 MEDIAN	24
138.10 WB	I-30 MEDIAN	24
TOTAL:		48

EARTHWORK

STATION	STATION	LOCATION / DESCRIPTION	UNCLASSIFIED EXCAVATION	* SOIL STABILIZATION
			CU. YD.	TON
ENTIRE	PROJECT	HWY. 270 - LM 18.29 GUARDRAIL REMOVAL	100	
ENTIRE	PROJECT	HWY. 270 - LM 19.24 GUARDRAIL REMOVAL	150	
* ENTIRE	PROJECT	TO BE USED IF AND WHERE		50
		DIRECTED BY THE ENGINEER		
TOTALS:			**250**	**50**

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

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

GUARDRAIL

LOG MILE	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
		LIN. FT.	EACH	
18.29 WB	HIGHWAY 270 - RT.	150	1	1
19.24 WB	HIGHWAY 270 - RT.	275	1	1
TOTALS:		**425**	**2**	**2**

4/5/2021

R061709.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.		061709	14	83

(2) SUMMARY OF QUANTITIES AND REVISIONS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 11425
TRINITY D. SMITH

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SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	QUANTITY	UNIT
202	REMOVAL AND DISPOSAL OF BARRIER WALL	48	LIN. FT.
202	REMOVAL AND DISPOSAL OF GUARDRAIL	407	LIN. FT.
202	REMOVAL AND DISPOSAL OF OVERHEAD SIGN STRUCTURE	1	EACH
SS & 210	UNCLASSIFIED EXCAVATION	250	CU. YD.
SP & 210	SOIL STABILIZATION	50	TON
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	652	TON
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	39	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	2	TON
601	MOBILIZATION	1.00	LUMP SUM
SP, SS, & 603	MAINTENANCE OF TRAFFIC	1.00	LUMP SUM
SS & 604	SIGNS	1438	SQ. FT.
SS & 604	TRAFFIC DRUMS	130	EACH
SS & 604	FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER	626	LIN. FT.
SS & 604	RELOCATING PRECAST CONCRETE BARRIER	1000	LIN. FT.
SS & 604	ADVANCE WARNING ARROW PANEL	4	DAY
SP, SS, & 604	PORTABLE CHANGEABLE MESSAGE SIGN	2	WEEK
SS & 617	GUARDRAIL (TYPE A)	425	LIN. FT.
SS & 617	GUARDRAIL TERMINAL (TYPE 2)	2	EACH
SS & 617	THRIE BEAM GUARDRAIL TERMINAL	2	EACH
620	LIME	2	TON
620	SEEDING	1.00	ACRE
SS & 620	MULCH COVER	1.00	ACRE
620	WATER	102.0	M. GAL.
621	SILT FENCE	800	LIN. FT.
621	SEDIMENT REMOVAL AND DISPOSAL	30	CU. YD.
623	SECOND SEEDING APPLICATION	1.00	ACRE
631	CONCRETE BARRIER WALL (MEDIAN TYPE B)	48	LIN. FT.
635	ROADWAY CONSTRUCTION CONTROL	1.00	LUMP SUM
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-030-60-67)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-030-62-26)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-440-60-52)	1	EACH
SP	MODIFICATION OF EXISTING OVERHEAD SIGN STRUCTURE	9	EACH
SS & 725	GUIDE SIGN-ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	10352	SQ. FT.
SS & 725	GUIDE SIGN-OVERHEAD MOUNTED (DEMOUNTABLE LEGEND)	3215	SQ. FT.
SS & 726	STANDARD SIGN	2395	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE A)	451	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE B)	251	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE C)	113	SQ. FT.
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	63084	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	16	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-2)	54	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-1)	51	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-2)	21	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-4)	4	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-5)	1	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-6)	6	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER	2	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (REPAIR)	4	EACH
SS & 731	TEMPORARY IMPACT ATTENUATION BARRIER (RELOCATION)	2	EACH

REVISIONS

DATE	REVISION	SHEET NUMBER

4/5/2021

dwbc553
R061709.DGN

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	15	83

② SIGNING SUMMARY OF QUANTITIES

SIGNING SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	TOTAL	UNIT
202	REMOVAL AND DISPOSAL OF OVERHEAD SIGN STRUCTURE	1	EACH
SP	STEEL OVERHEAD SIGN STRUCTURE (OH-030-60-67)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-030-62-26)	1	EACH
SP	STEEL CANTILEVER SIGN STRUCTURE (OC-440-60-52)	1	EACH
SP	MODIFICATION OF EXISTING OVERHEAD SIGN STRUCTURE	9	EACH
SS & 725	GUIDE SIGN - ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	10352	SQ. FT.
SS & 725	GUIDE SIGN - OVERHEAD MOUNTED (DEMOUNTABLE LEGEND)	3215	SQ. FT.
SS, & 726	STANDARD SIGN	2395	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE A)	451	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE B)	251	SQ. FT.
SS & 727	EXIT NUMBER PANEL (TYPE C)	113	SQ. FT.
SS & 730	BREAKAWAY SIGN SUPPORT (TYPE G-2)	63084	POUND
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	16	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-2)	54	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-1)	51	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-2)	21	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-4)	4	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-5)	1	EACH
SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-6)	6	EACH

NOTES:

ALL EXISTING GUIDE SIGNS SHALL BE MAINTAINED IN SUCH A MANNER THAT THE SIGNS ARE FULLY VISIBLE, INTACT, AND ERECT FOR THE DURATION OF THE PROJECT, AND SHALL BE REMOVED WHEN THEIR USE IS NO LONGER REQUIRED. REMOVAL AND DISPOSAL OF SIGNS, SUPPORTS, AND FOUNDATIONS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.

THE EXISTING SIGNS AND SUPPORTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE EXISTING FOOTINGS SHALL BE REMOVED AND THE HOLES FILLED WITH A SUITABLE MATERIAL AND COMPACTED.

EXISTING LOGOS WILL BE RELOCATED TO THE NEW LOGO SIGN BY THE CONTRACTOR. THE LOGO INSTALLATION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.

THE EXISTING SIGNS NOT NOTED IN THE PLANS SHALL BE MAINTAINED AND LEFT INTACT FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR SHOULD MAKE EVERY EFFORT TO LOCATE BURIED UTILITIES PRIOR TO EXCAVATION INCLUDING, BUT NOT LIMITED TO, CALLING ARKANSAS ONE CALL CENTER (800) 482-8998 FOR LOCATES. SHOULD IT BE DETERMINED A POSSIBILITY OF A UTILITY CONFLICT, CONTRACTOR SHALL CONSULT WITH THE RESIDENT ENGINEER FOR FURTHER GUIDANCE.

BREAKAWAY SIGN SUPPORT TOTAL IS CALCULATED BY TAKING THE LENGTH OF H1, H2, H3, AND THE STUB POST AND MULTIPLYING BY THE BEAM WEIGHT (LBS).

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. RD PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	15	83
				②		SIGNING QUANTITIES		

OVERHEAD SIGNING QUANTITIES (BOX 1 OF 1)

SIGN NO./ LOCATION	STRUCTURE TYPE: INSTALL SIGN STRUCTURE				STRUCTURE TYPE: REMOVE EXISTING SIGN STRUCTURE				STRUCTURE TYPE: MODIFICATION OF EXISTING SIGN STRUCTURE				GUIDE SIGN			LEGEND	EXIT NUMBER PANEL TYPE			OVERHEAD DMS ASSEMBLY	STD. SIGN	GUARDRAIL				
													LENGTH	HEIGHT			A	B	C			TYPE A	TERM. ANCHOR POSTS TYPE 1	GUARDRAIL TERM. TYPE 2	AGG. BASE CR (CL. 7)	ACHM SURF. CR. 220 LBS/SY
	ST	OC	OH	BM	ST	OC	OH	BM	ST	OC	OH	BM	LIN. FT.		SQ. FT.		SQ. FT.			EACH	SQ. FT.	LIN. FT.	EACH	EACH	TON	TON
OH-030-60-67			1																								
BM 30-138-1WB (012343)																											
BM 30-138-2WB (012343)																											
OC-030-62-06						1																					
OC-030-62-26		1																									
OC 30-126-1EB													15.00	9.50	142.50	126	23.75										
OC-440-60-52		1																									
OC 440-11-2WB													13.50	10.50	141.75	11A		23.75									
BM-270-26-08												1															
BM 270-1-1WB													8.50	7.50	63.75												
BM 270-1-2WB													8.50	7.50	63.75												
OH-270-26-01											1																
OH 270-1-1WB													14.00	10.50	147.00	1	17.50										
OH 270-1-2WB													13.00	9.50	123.50												
OC-270-26-02										1																	
OC 270-1-2WB													14.50	10.00	145.00	1	17.50										
OC-270-26-03										1																	
OC 270-1-1WB													14.50	12.00	174.00	1	17.50										
OH-270-26-04											1																
OH 270-5-1EB													14.50	10.50	152.25	5A		20.00									
OH 270-5-2EB													14.50	10.00	145.00	5B		20.00									
OH 270-4-3WB													16.00	12.50	200.00	4	17.50										
OH 270-4-4WB													13.50	7.50	101.25												
OH-270-26-05											1																
OH 270-5-3EB													14.50	10.50	152.25	5A		20.00									
OH 270-5-4EB													14.50	10.00	145.00	5B		20.00									
OH 270-4-2WB													16.00	11.50	184.00	4	17.50										
OH-270-26-06											1																
OH 270-5-5EB													14.50	10.00	145.00	5B		20.00									
OH 270-5-6EB													13.50	7.50	101.25												
OH 270-5-3WB													14.50	10.00	145.00	5A		20.00									
OH 270-4-1WB													19.00	9.50	180.50	4	17.50										
OH-270-26-07											1																
OH 270-5-1WB													14.00	10.00	140.00	5B		20.00									
OH 270-5-2WB													14.00	10.00	140.00	5A		20.00									
OH-070-26-01											1																
OH 70-11-1AEB													13.50	10.50	141.75	11A		21.25									
OH 70-11-1BEB													14.00	10.00	140.00	11B		21.25									
TOTALS:		**2**	**1**			**1**				**2**	**6**	**1**			**3214.50**		**128.75**	**226.25**									



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	17	83

② SIGNING QUANTITIES

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (BOX 1 OF 2)

SIGN NO./ LOCATION	OMNI-DIRECTIONAL SIGN SUPPORT			I-BEAM STRUCTURE TYPE			GUIDE SIGN DEMOUNTABLE LEGEND			I-BEAM BREAKAWAY SIGN SUPPORT													EXIT NUMBER PANEL				SUPPLEMENTAL GUIDE SIGN DEMOUNTABLE	
							LENGTH	HEIGHT		STEEL SECT. A-572		SIGN POST LENGTH			STUB POST			FOOTINGS			SIGN POST AND STUB	LEGEND	TYPE			LEGEND	SQ. FT.
	G1	G2	G3	G1	G2	G3	LIN. FT.		SQ. FT.	BEAM	LBS	H-1	H-2	H-3	H-1	H-2	H-3	DIA.	DEPTH	EMBED.	POUND		A	B	C		
												LIN FT			LIN FT			LIN FT					SQ. FT.				
EXIT 1-EB		1					6.50	5.00	32.50																		
EXIT 1-WB		1					6.50	5.00	32.50																		
EXIT 2-EB		1					6.50	5.00	32.50																		
EXIT 2-WB		1					6.50	5.00	32.50																		
EXIT 3-EB		1					6.50	5.00	32.50																		
EXIT 3-WB		1					6.50	5.00	32.50																		
EXIT 4-EB		1					6.50	5.00	32.50																		
EXIT 4-WB		1					6.50	5.00	32.50																		
EXIT 5A-EB		1					6.50	5.00	32.50																		
EXIT 5A-WB		1					7.00	7.00	49.00																		
EXIT 5B-EB		1					7.50	7.00	52.50																		
EXIT 5B-WB		1					6.50	5.00	32.50																		
EXIT 7-EB		1					6.50	5.00	32.50																		
EXIT 7-WB		1					6.50	5.00	32.50																		
EXIT 9-EB		1					6.50	5.00	32.50																		
EXIT 9-WB		1					6.50	5.00	32.50																		
EXIT 11A-EB		1					7.50	5.00	37.50																		
EXIT 1-70B-EB		1					5.00	4.50	22.50																		
EXIT 2-70B-EB		1					5.00	6.50	32.50																		
EXIT 2-70B-WB		1					5.00	6.50	32.50																		
EXIT 3-70B-WB		1					5.00	6.50	32.50																		
EXIT 4-70B-EB		1					5.00	6.50	32.50																		
EXIT 4-70B-WB		1					5.00	6.50	32.50																		
EXIT 6-70B-EB		1					6.50	5.00	32.50																		
EXIT 6-70B-WB		1					6.50	5.00	32.50																		
LGF 270-9WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LGF 270-9EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LFC 270-7WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LFC 270-7EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LG 270-7EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
SS 270-RAMP7-2WB					1		11.00	7.00	77.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
SS 270-RAMP7-1EB					1		11.00	7.00	77.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
LLL 270-5WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LLL 270-5EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LGG 270-5EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LFF 270-5EB					1		12.00	15.00	180.00	W10	22.00	22.00	23.00		7.00	7.00		3.00	10.00	6.67	1298.00						
LCX 270-3WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LCX 270-3EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LAX 270-2EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LAX270-2WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF 270-2EB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LF 270-1WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
LG 270-1WB					1		18.00	12.00	216.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00						
SS 270-RAMP2-2WB					1		11.00	7.00	77.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
SS 270-RAMP2-2EB					1		11.00	7.00	77.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
SS 270-RAMP2-1EB					1		11.00	7.00	77.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
SS 270-RAMP3-2EB					1		11.00	7.00	77.00	W8	18.00	14.00	15.00		3.99	3.99		2.50	5.50	3.66	665.64						
ML 270-3-1EB					1		12.50	5.50	68.75	W8	18.00	12.50	13.50		4.99	4.99		2.00	6.00	4.00	647.64	3	17.50				
ML 270-1-1EB					1		9.00	6.50	58.50	W8	18.00	13.50	14.50		4.33	4.33		2.00	6.00	4.00	659.88	1	10.00				
SS 270-RAMP7-3WB					1		8.50	5.00	42.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
SS 270-RAMP7-3EB					1		8.50	5.00	42.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
SUBTOTALS(BOX 1 OF 2) :		**25**			**26**				**4938.25**												**25301.12**		**27.50**				

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. NO. PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	18	85
				②		SIGNING QUANTITIES		

MAIN LANES ROADSIDE MOUNTED SIGNING QUANTITIES (BOX 2 OF 2)

SIGN NO./ LOCATION	OMNI-DIRECTIONAL SIGN SUPPORT			I-BEAM STRUCTURE TYPE			GUIDE SIGN DEMOUNTABLE LEGEND			I-BEAM BREAKAWAY SIGN SUPPORT													EXIT NUMBER PANEL				SUPPLEMENTAL	
										STEEL SECT. A-572		SIGN POST LENGTH			STUB POST			FOOTINGS			SIGN POST AND STUB	LEGEND	TYPE			GUIDE SIGN DEMOUNTABLE	
							LENGTH	HEIGHT				H-1	H-2	H-3	H-1	H-2	H-3	DIA.	DEPTH	EMBED.			A	B	C	LEGEND	SQ. FT.
	G1	G2	G3	G1	G2	G3	LIN. FT.		SQ. FT.	BEAM	LBS	LIN FT			LIN FT			LIN FT			POUND		SQ. FT.				
ML 70B-1-2EB					1		6.50	4.00	26.00	W6	9.00	11.00	12.00		3.33	3.33		1.50	4.50	3.00	266.94	1	10.00				
ML 70B-2-2WB					1		7.00	7.00	49.00	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	2	17.50				
ML 70B-2-3EB					1		7.00	7.00	49.00	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	2	17.50				
ML 70B-2-1WB					1		10.00	7.00	70.00	W8	18.00	14.00	15.00		4.33	4.33		2.00	6.00	4.00	677.88	2	17.50				
ML 70B-2-2EB					1		8.50	4.50	38.25	W6	9.00	11.50	12.50		3.33	3.33		1.50	4.50	3.00	275.94						
ML 70B-4-1EB					1		14.00	4.50	63.00	W8	18.00	11.50	12.50		4.33	4.33		2.00	6.00	4.00	587.88	4	17.50				
ML 70B-4-2EB					1		10.50	5.00	52.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88	4	17.50				
ML 70B-3-1WB					1		13.50	4.50	60.75	W8	18.00	11.50	12.00		4.33	4.33		2.00	6.00	4.00	578.88	3	17.50				
ML 70B-3-2WB					1		15.50	8.50	131.75	W10	22.00	15.50	16.50		4.99	4.99		3.00	7.00	4.66	923.56						
ML 70B-3-3WB					1		11.50	6.00	69.00	W8	18.00	13.00	14.00		4.33	4.33		2.00	6.00	4.00	641.88						
ML 70B-3-4WB					1		10.00	5.00	50.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88	3	17.50				
ML 70B-4-1WB					1		14.00	4.50	63.00	W8	18.00	11.50	12.50		4.33	4.33		2.00	6.00	4.00	587.88	4	17.50				
ML 70B-4-2WB					1		10.50	5.00	52.50	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88	4	17.50				
EXIT 11B-EB					1		11.00	11.00	121.00	W10	22.00	18.00	19.00		5.33	5.33		3.00	7.50	5.00	1048.52	11B		25.00			
ML 70-11-5EB					1		17.50	12.50	218.75	W10	22.00	19.50	20.50		7.00	7.00		3.00	10.00	6.67	1188.00	11A-B			28.75		
ML 70-11-1EB					1		14.50	12.50	181.25	W10	22.00	19.50	20.50		7.00	7.00		3.00	10.00	6.67	1188.00	11A-B			28.75		
ML 270-7-2EB					1		17.00	7.00	119.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-2-3EB					1		11.00	5.00	55.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML 70-9-1WB					1		11.00	5.00	55.00	W8	18.00	12.00	13.00		4.33	4.33		2.00	6.00	4.00	605.88						
ML 70-11-3EB					1		14.00	7.00	98.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-9-2WB					1		15.50	12.50	193.75	W10	22.00	18.50	19.50		7.00	7.00		3.00	10.00	6.67	1144.00	9	17.50				
ML 270-9-3WB					1		14.50	12.50	181.25	W10	22.00	18.50	19.50		7.00	7.00		3.00	10.00	6.67	1144.00	9	17.50				
ML 270-9-2EB					1		14.50	12.00	174.00	W10	22.00	18.00	19.00		7.00	7.00		3.00	10.00	6.67	1122.00	9	17.50				
ML 270-7-1WB					1		21.50	10.00	215.00	W10	22.00	17.00	18.00		5.33	5.33		3.00	7.50	5.00	1004.52	7	17.50				
ML 270-7-2WB					1		17.00	7.00	119.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-7-3WB					1		15.50	7.00	108.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-9-1EB					1		15.50	12.00	186.00	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00	9	17.50				
ML 270-7-7WB					1		21.00	10.50	220.50	W10	22.00	17.50	18.50		7.00	7.00		3.00	10.00	6.67	1100.00	7	17.50				
ML 270-7-5WB					1		15.00	7.00	105.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-7-6WB					1		13.50	7.00	94.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-7-7EB					1		21.00	10.50	220.50	W10	22.00	17.50	18.50		7.00	7.00		3.00	10.00	6.67	1100.00	7	17.50				
ML 270-5-1WB					1		14.00	9.50	133.00	W8	21.00	16.50	17.50		4.99	4.99		2.50	7.00	4.66	923.58	5B-A			27.50		
ML 270-7-1EB					1		21.50	10.00	215.00	W10	22.00	17.00	18.00		5.33	5.33		3.00	7.50	5.00	1004.52	7	17.50				
ML 270-7-6EB					1		15.00	7.00	105.00	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-7-5EB					1		15.50	5.50	85.25	W8	18.00	12.50	13.50		4.33	4.33		2.00	6.00	4.00	623.88						
ML 270-7-4WB					1		15.50	5.50	85.25	W8	18.00	12.50	13.50		4.33	4.33		2.00	6.00	4.00	623.88						
ML 270-7-4EB					1		13.50	7.00	94.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
ML 270-4-3EB					1		19.00	10.50	199.50	W10	22.00	19.00	20.00		7.00	7.00		3.00	10.00	6.67	1166.00	4	17.50				
ML 270-5-2EB					1		14.00	10.00	140.00	W8	21.00	17.00	18.00		4.99	4.99		2.50	7.00	4.66	944.58	5A-B			27.50		
ML 270-4-1EB					1		19.00	10.00	190.00	W10	22.00	17.00	18.00		7.00	7.00		3.00	10.00	6.67	1078.00	4	17.50				
ML 270-5-2WB					1		21.00	10.00	210.00	W10	22.00	17.00	18.00		7.00	7.00		3.00	10.00	6.67	1078.00						
ML 270-5-1EB					1		21.00	10.00	210.00	W10	22.00	17.00	18.00		7.00	7.00		3.00	10.00	6.67	1078.00						
ML 270-3-1WB					1		12.50	5.50	68.75	W8	18.00	12.50	13.50		4.33	4.33		2.00	6.00	4.00	623.88	3	17.50				
ML 270-3-2WB					1		16.00	4.00	64.00	W8	18.00	11.00	12.00		4.33	4.33		2.00	6.00	4.00	569.88	3	17.50				
ML 270-3-2EB					1		16.00	4.00	64.00	W8	18.00	11.00	12.00		4.33	4.33		2.00	6.00	4.00	569.88	3	17.50				
ML 270-7-3EB					1		15.50	7.00	108.50	W8	21.00	14.00	15.00		4.99	4.99		2.50	7.00	4.66	818.58						
SUBTOTALS(BOX 2 OF 2) :					46				5413.50												37782.34		395.00	25.00	112.50		
SUBTOTALS(BOX 1 OF 2) :		25			26				4938.25												25301.12		27.50				
TOTALS :		25			72				10351.75												63083.5		422.5	25	112.5		

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSigned

STANDARD SIGNS (BOX 1 OF 2)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET OMNI-DIRECTIONAL SIGN SUPPORTS TYPE G1 EA.	G2 EA.	G2-1 EA.	G2-2 EA.	G2-3 EA.	G2-4 EA.	G2-5 EA.	G2-6 EA.	G2-7 EA.	G2-8 EA.	G2-9 EA.	G2-10 EA.	STANDARD SIGN SQ. FT.
SS70B-2.44EB	1												14.30
SS70B-3.90EB	1												14.30
SS70B-3.08WB	1												14.30
SS70-2.28WB	1												12.13
SS70-0.62EB	1												12.13
SS270-18.76WB	1												14.30
SS270-18.29EB	1												14.30
SS70B-2.32WB		1											20.00
SS70B-3.38EB		1											20.00
SS70B-RAMP5-1WB		1											20.00
SS270-RAMP1-1WB		1											20.00
SS270-RAMP4-1WB		1											20.00
SS70B-3.17WB		1											20.00
SS70B-5.26WB		1											20.00
SS270-3.38WB		1											20.00
SS270-3.03EB		1											20.00
SS270-1.69WB		1											20.00
SS270-0.63EB		1											20.00
SS270-21.45EB		1											20.00
SS270-20.32WB		1											20.00
SS270-19.62EB		1											20.00
SS70-2.54WB			1										16.00
SS270-18.19EB			1										16.00
SS70B-1.75EB			1										16.00
SS70B-2.06WB			1										16.00
SS70B-3.42EB			1										16.00
SS70B-3.72WB			1										16.00
SS70B-5.40WB			1										16.00
SS270-22.28WB			1										16.00
SS270-18.21WB			1										16.00
SS70B-1.85WB			1										16.00
SS70B-2.25EB			1										16.00
SS70B-3.37WB			1										16.00
SS70B-3.76EB			1										16.00
SS70B-4.87WB			1										16.00
SS70-0.29EB			1										16.00
SS70-0.11WB			1										16.00
SS270-2.41EB			1										16.00
SS270-2.14WB			1										16.00
SS270-0.07EB			1										16.00
SS270-22.22EB			1										16.00
SS270-22.07WB			1										16.00
SS270-21.09EB			1										16.00
SS270-20.94WB			1										16.00
SS270-19.24EB			1										16.00
SS270-19.05WB			1										16.00
SS70B-3.46EB-A			1										16.00
SS70B-3.46EB-B			1										16.00
SS70B-4.20WB-A			1										16.00
SS70B-4.20WB-B			1										16.00
SS270-18.59WB		1											20.00
SS270-18.45WB		1											20.00
SS70-0.70EB		1											20.00
SS270-3.69WB		1											20.00
SS270-2.75EB		1											20.00
SS270-1.78WB		1											20.00
SS270-0.53EB		1											20.00
SS270-21.68WB		1											20.00
SS270-21.33EB		1											20.00
SS270-20.54WB		1											20.00
SS270-18.33EB		1											20.00
SS270-18.72WB			1										16.00
SS70B-RAMP5-1EB		1											20.00
SS270-RAMP9-1WB		1											20.00
SUBTOTALS (BOX 1 OF 2):	7	27	30										1115.76

STANDARDS SIGNS (BOX 2 OF 2)

SIGN NO./ LOCATION	STANDARD SIGNS FLAT SHEET OMNI-DIRECTIONAL SIGN SUPPORTS TYPE G1 EA.	G2 EA.	G2-1 EA.	G2-2 EA.	G2-3 EA.	G2-4 EA.	G2-5 EA.	G2-6 EA.	G2-7 EA.	G2-8 EA.	G2-9 EA.	G2-10 EA.	STANDARD SIGN SQ. FT.
SS70B-RAMP5-2WBA			1										16.00
SS70B-RAMP5-2WBB			1										16.00
SS70B-RAMP2-1EB			1										16.00
SS70B-RAMP5-2EBA			1										16.00
SS70B-RAMP5-2EBB			1										16.00
SS270-RAMP3-1WB			1										16.00
SS270-RAMP2-3EB			1										16.00
SS270-RAMP3-1EB			1										16.00
SS270-RAMP5B-1WB			1										16.00
SS270-RAMP1-2WBA			1										16.00
SS270-RAMP1-2WBB			1										16.00
SS270-RAMP5A-1EB			1										16.00
SS270-RAMP9-2WBA			1										16.00
SS270-RAMP9-2WBB			1										16.00
SS270-RAMP7-1WBA			1										16.00
SS270-RAMP7-1WBB			1										16.00
SS270-RAMP5A-2WB			1										16.00
SS270-RAMP4-2WB			1										16.00
SS270-RAMP2-1WB			1										16.00
SS270-RAMP9-1EBA			1										16.00
SS270-RAMP9-1EBB			1										16.00
SS270-3.80WB				1									26.50
SS270-1.89WB				1									26.50
SS270-22.49WB				1									26.50
SS270-20.64WB				1									26.50
SS270-2.69EB				1									26.50
SS270-0.43EB				1									26.50
SS270-21.28EB				1									26.50
SS270-19.47EB				1									26.50
SS270-18.20WB				1									20.00
SS70-0.14WB				1									20.00
SS270-21.60WB				1									20.00
SS270-20.82EB				1									20.00
SS270-19.94WB				1									20.00
SS270-3.65EB				1									20.00
SS270-21.11EB				1									20.00
SS270-21.11WB				1									20.00
SS270-19.29EB				1									20.00
SS70B-4.95WB				1									20.00
SS270-RAMP-1EB				1									20.00
SS270-RAMP5B-1EB				1									20.00
SS270-RAMP5A-1WB				1									20.00
SS70B-RAMP5-3WB						1							30.75
SS70B-RAMP5-3EB						1							30.75
SS270-RAMP7-4WB								1					37.11
SS270-RAMP2-4EB								1					27.36
SS270-RAMP4-2EB						1							37.68
SS270-RAMP9-3WB								1					35.86
SS270-RAMP5B-2WB							1						48.11
SS270-RAMP2-3WB								1					34.86
SS270-RAMP3-2WB		1											9.00
SS270-RAMP3-3EB		1											9.00
SS270-RAMP7-4EB								1					42.79
SS270-RAMP9-3EB								1					35.86
SS270-RAMP9-2EB						1							24.36
SS270-3.74EB	1												7.50
SS270-3.76EB	1												7.50
SS270-3.78EB	1												7.50
SS270-3.80EB	1												7.50
SS270-3.82EB	1												7.50
SS270-3.84EB	1												7.50
SS270-3.86EB	1												7.50
SS270-3.88EB	1												7.50
SS270-3.90EB	1												7.50
SUBTOTALS (BOX 2 OF 2):	9	2	21	21		4	1	6					1278.99

TOTALS:	16	29	51	21		4	1	6					2394.75

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI

SHEET REVISED	SHEET PLANNED	SHEET REVISED	FILE NAME

FED. ROAD TRS. NO.	STATE JOB NO.
6	ARK.

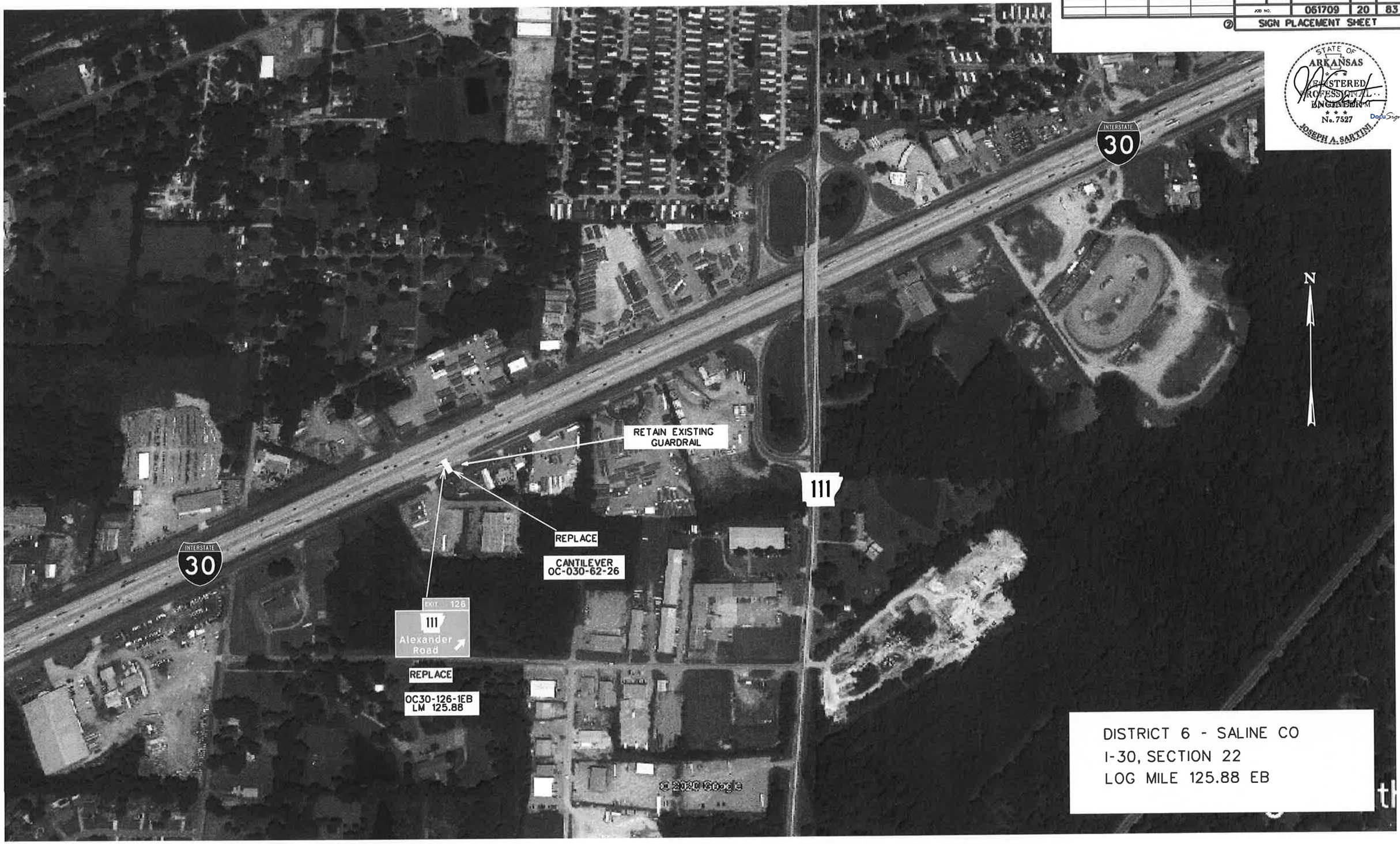
FED. OR PROJ. NO.	SHEET NO.	TOTAL SHEETS
061709	69	85

SIGNING QUANTITIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	20	83

② SIGN PLACEMENT SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

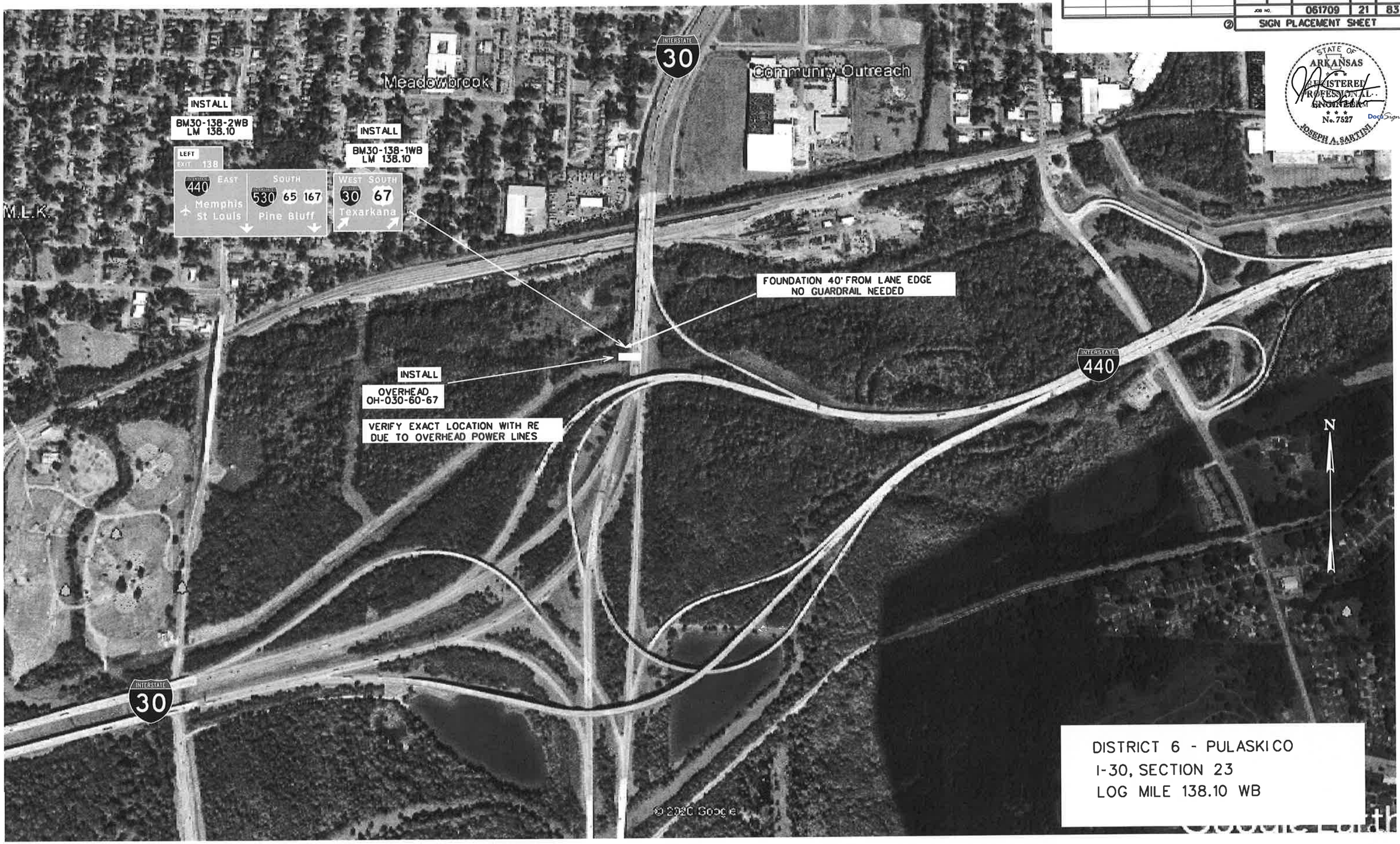


DISTRICT 6 - SALINE CO
I-30, SECTION 22
LOG MILE 125.88 EB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	21	83

② SIGN PLACEMENT SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

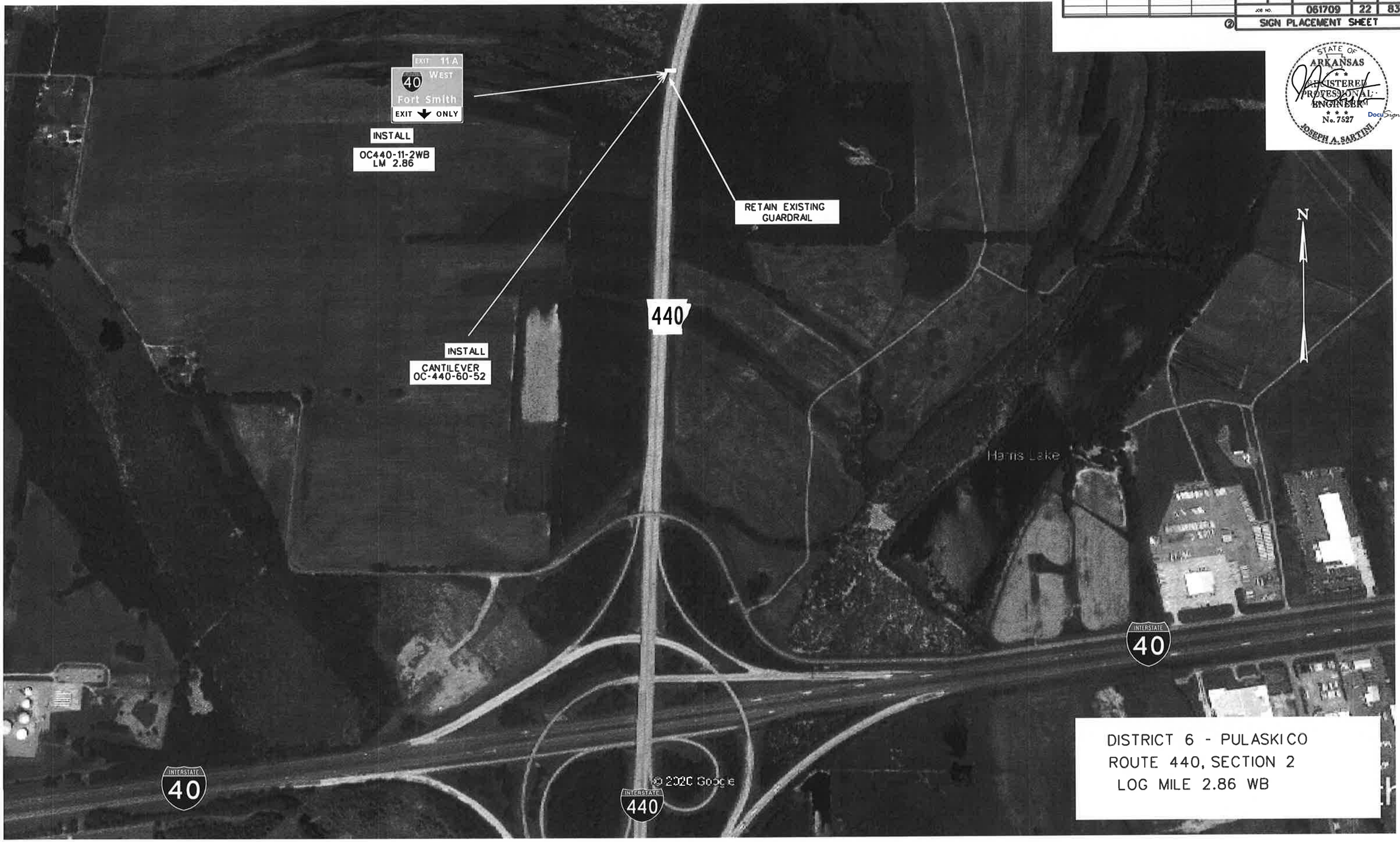


DISTRICT 6 - PULASKI CO
I-30, SECTION 23
LOG MILE 138.10 WB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	22	83

② SIGN PLACEMENT SHEET

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SABITINI
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DISTRICT 6 - PULASKI CO
ROUTE 440, SECTION 2
LOG MILE 2.86 WB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	23	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 270, SEC 5

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI DocuSign

N

REPLACE
SS270-RAMP1-1EB
30 MPH

REPLACE
EAST 270 Malvern
BM270-1-1WB

REPLACE
WEST 270 Mount Ida
BM270-1-2WE

REPLACE
SS270-18.20WB
30 MPH

REPLACE
SS270-RAMP1-2WBA
SS270-RAMP1-2WBB

EXIT 1
REPLACE
EXIT1-WB
LM 18.23

INSTALL
EXIT 1
EXIT1-EB
LM 18.04

INSTALL
270 EAST Little Rock
ML270-1-1EB
LM 17.94

REPLACE
SS270-18.19EB

REPLACE
SS270-18.21WB

REPLACE
SS270-18.29EB
EAST 270

REPLACE
SS270-18.33EB
SPEED LIMIT 65

INSTALL
STATE LAW
MOVE OVER SAFELY OR SLOW DOWN FOR STOPPED VEHICLES WITH FLASHING LIGHTS
ML270-2-3EB
LM 18.38

EXIT 2
EAST 70B
WEST 70
Airport Rd
½ MILE
MAINTAIN

REPLACE
EXIT 30 MPH
SS270-RAMP1-1WB

REPLACE EXISTING GUARDRAIL

REPLACE
WEST 270 Mount Ida
OH270-1-1WB
LM 18.29

REPLACE
EXIT 1
270B EAST Hot Springs
EXIT ONLY
OH270-1-2WB

REPLACE
SS270-18.45WB
SPEED LIMIT 45

270

270B

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	24	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 5

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI DocuSign

REPLACE
LF270-2EB
LM 18.59

REPLACE
SS270-18.59WB

REPLACE
LAX270-2EB
LM 18.71

REPLACE
LG270-1WB
LM 18.69

REPLACE
SS270-18.72WB

RETAIN EXISTING GUARDRAIL

MAINTAIN

REPLACE
OC270-1-2WB
LM 18.76

REPLACE
SS270-18.76WB

REPLACE
EXIT2-EB
LM 18.94

REPLACE
LF270-1WB
LM 18.82

REPLACE
SS270-RAMP2-1EB

REPLACE
SS270-19.05WB

REPLACE
SS270-RAMP2-2EB

REPLACE
OC270-1-1WB
LM 19.24

REPLACE
SS270-RAMP2-3EB

REPLACE
SS270-RAMP2-4EB

REPLACE
SS270-RAMP2-3WB

REPLACE
SS270-RAMP2-2WB

REPLACE EXISTING GUARDRAIL

N

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	25	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 5

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI DocuSigned

INSTALL SS270-19.24EB

REPLACE WITH SS270-19.29EB 60 M.P.H.

EAST 270 EAST 70 REPLACE SS270-19.47EB

INSTALL SS270-19.62EB SLOWER TRAFFIC KEEP RIGHT

REPLACE LCX270-3EB LM 19.67

REPLACE ML270-3-1EB LM 19.74

REPLACE SS270-RAMP2-2WB

REPLACE SS270-RAMP2-1WB

REPLACE EXIT2-WB LM 19.32

MAINTAIN

INSTALL SS270-19.94WB 60 M.P.H.

REPLACE LAX270-2WB LM 20.02

MAINTAIN

N

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	26	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 270, SEC 5

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI DocuSign

INSTALL
SS270-20.32WB
SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS270-20.54WB
SPEED LIMIT 65

EXIT 2
West 70 East 70B
Airport Rd 1 MILE
MAINTAIN

REPLACE
WEST 270 WEST 70
SS270-20.64WB

INSTALL
SS270-20.82EB
60 M.P.H.

REPLACE
SS270-20.94WB

270

REPLACE
SS270-RAMP3-2WB
McLeod St

REPLACE
SS270-RAMP3-1WB

REPLACE
ML270-3-2EB
LM 20.67

EXIT 3
McLeod St

REPLACE
EXIT3-EB
LM 20.81

EXIT 3

REPLACE
SS270-RAMP3-2EB

REPLACE
SS270-21.09EB

REPLACE
SS270-RAMP3-1EB

INSTALL
60 M.P.H.
SS270-21.11WB

INSTALL
SS270-21.11EB
60 M.P.H.

REPLACE
EXIT 3-WB
LM 21.19

EXIT 3
McLeod St

REPLACE
SS270-RAMP3-3EB
McLeod St

REPLACE
ML270-3-2WB
LM 21.27

REPLACE
ML270-5-1EB
LM 21.21

Hot Springs Natl Park
Oaklawn Racing
Casino Resort
EXIT 5B

EAST 270 EAST 70

REPLACE
SS270-21.28EB

270

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	27	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 5

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI

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REPLACE SS270-21.09EB

INSTALL SS270-21.11EB 60 M.P.H.

REPLACE ML270-5-1EB LM 21.21

Hot Springs Natl Park
Oaklawn Racing
Casino Resort
EXIT 5B

EAST 270 EAST 70

REPLACE SS270-21.28EB

REPLACE SS270-21.33EB

SPEED LIMIT 65

REPLACE ML270-4-1EB LM 21.40

88 Higdon Ferry Rd ½ MILE

INSTALL SS270-21.45EB

SLOWER TRAFFIC KEEP RIGHT

MAINTAIN

CHI St Vincent Health System EXIT 4

INSTALL 60 M.P.H. SS270-21.11WB

REPLACE EXIT 3 EXIT3-WB LM 21.19

McLeod St

REPLACE ML270-3-2WB LM 21.27

INSTALL SS270-21.60WB

60 M.P.H.

REPLACE ML270-3-1WB LM 21.64

McLeod St ½ MILE

270

N

REPLACE SS270-21.68WB

SPEED LIMIT 65

REPLACE LCX270-3WB LM 21.77

CAMPING - EXIT 3

EXIT 3

MAINTAIN

GAS - EXIT 4

FOOD - EXIT 4

88 Higdon Ferry Road

REPLACE ML270-4-3EB LM 21.81

REPLACE EXIT4-EB LM 21.91

EXIT 4

REPLACE WEST 270 WEST 70 SS270-21.78WB

REPLACE LLL270-5EB LM 22.03

LODGING - EXIT 5A

LODGING - EXIT 5B

REPLACE SS270-22.07WB

REPLACE SS270-RAMP4-1EB

EXITS 5A-B 7 Central Ave ½ MILE

WEST 88

Higdon Ferry Road

REPLACE ML270-5-2EB LM 22.09

REPLACE SS270-RAMP4-2EB

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	28	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 5

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Apr 6 2021 3:03 PM
DocuSign

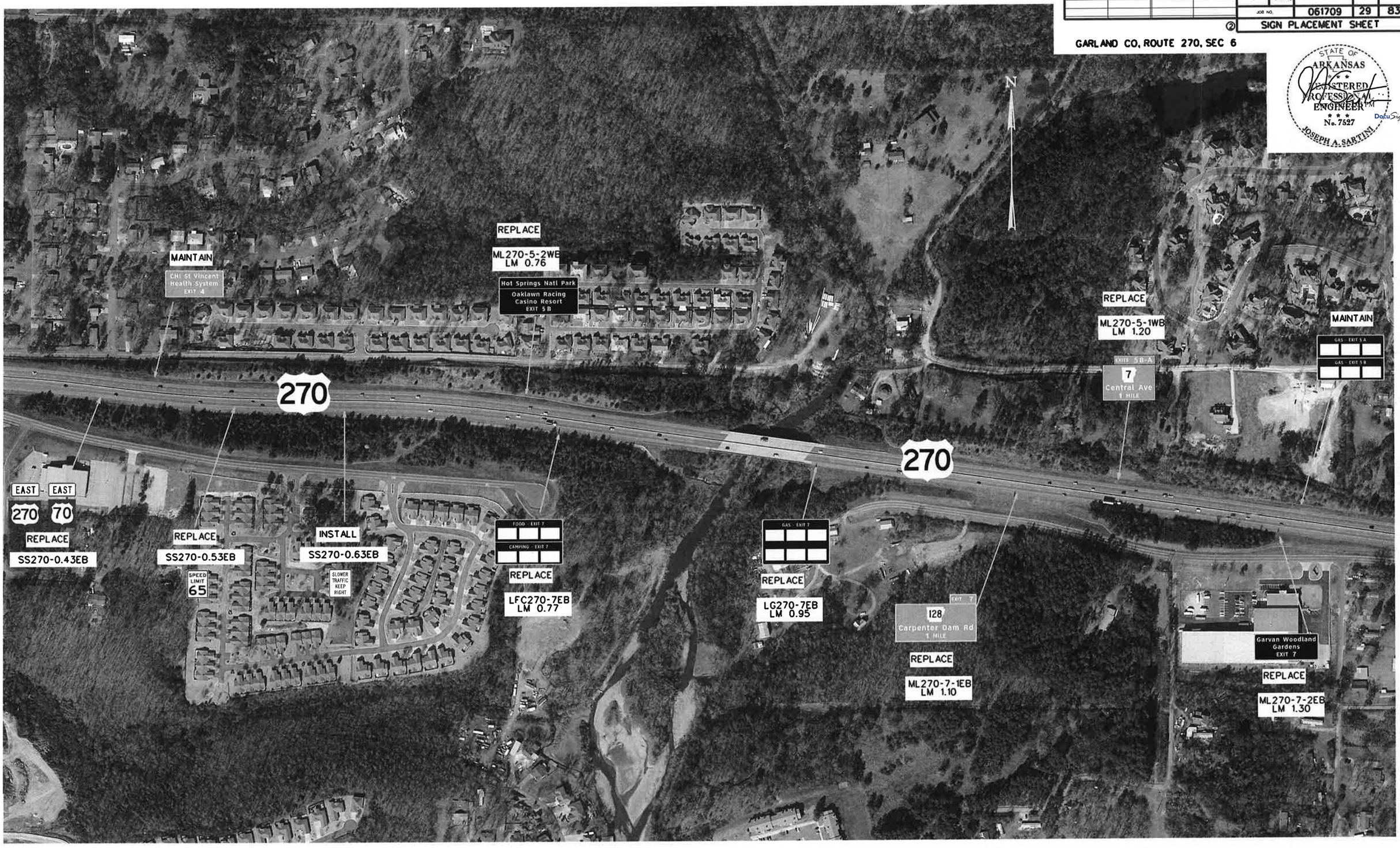
REPLACE
SS270-RAMP4-2WB
REPLACE
REPLACE
OH270-4-4WB OH270-4-3WB
EXIT4-WB
LM 22.30
REPLACE
REPLACE
SS270-RAMP4-1WB
INSTALL
SS270-22.28WB
REPLACE
SS270-22.49WB
REPLACE
OH270-4-2WB
INSTALL
SS270-RAMP5A-2WB
REPLACE
OH270-4-1WB OH270-5-3WB
EXIT5A-WB
LM 22.77
REPLACE
SS270-RAMP5A-1WB
REPLACE
REPLACE
SS270-RAMP5B-2WB
EXIT5B-WB
LM 0.17
REPLACE
INSTALL
SS270-RAMP5B-1WB
REPLACE
REPLACE
OH270-5-2WB OH270-5-1WB
270
REPLACE
REPLACE
SS270-22.22EB
LGG270-5EB
LM 22.23
REPLACE
LFF270-5EB
LM 22.18
REPLACE
REPLACE
OH270-5-4EB OH270-5-3EB
REPLACE
REPLACE
EXIT5A-EB
LM 22.74
REPLACE
INSTALL
SS270-RAMP5A-1EB
REPLACE
SS270-RAMP5B-1EB
INSTALL
SS270-0.07EB
REPLACE
REPLACE
OH270-5-2EB OH270-5-1EB
RETAIN EXISTING GUARDRAIL
RETAIN EXISTING GUARDRAIL
REPLACE
REPLACE
OH270-5-6EB OH270-5-5EB
EXIT5B-EB
LM 0.05
REPLACE
RETAIN EXISTING GUARDRAIL

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	29	83

② SIGN PLACEMENT SHEET

GARLAND CO., ROUTE 270, SEC 6

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	30	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 6

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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INSTALL
SS270-1.69WB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS270-1.78WB

SPEED LIMIT 65

REPLACE
WEST 270 WEST 70
SS270-1.89WB

REPLACE
LLL270-5WB
LM 1.63

MAINTAIN

FOOD - EXIT 5 A
FOOD - EXIT 5 B
LODGING - EXIT 5 B
LODGING - EXIT 5 A

REPLACE
SS270-2.14WB

REPLACE
SS270-RAMP7-4WB

WEST 128 EAST 128

REPLACE
SS270-RAMP7-3WB

REPLACE
SS270-RAMP7-2WB

REPLACE
SS270-RAMP7-1WBA
SS270-RAMP7-1WBB

EXIT7-WB
LM 2.46

EXIT 7

REPLACE

270

EAST 128 WEST 128

REPLACE
SS270-RAMP7-4EB

REPLACE
SS270-2.41EB

EXIT 7

REPLACE
EXIT7-EB
LM 2.07

REPLACE
SS270-RAMP7-3EB

270

128 Carpenter Dam Road

Lake Catherine State Park EXIT 7

REPLACE
ML270-7-7EB
LM 1.97

REPLACE
SS270-RAMP7-1EB

REPLACE
ML270-7-6EB
LM 1.81

REPLACE
SS270-RAMP7-2EBA
SS270-RAMP7-2EBB

State Police HQ EXIT 7

REPLACE
ML270-7-5EB
LM 1.71

National Park Medical Center EXIT 7

REPLACE
ML270-7-3EB
LM 1.49

Natural State Golf Trail EXIT 7

REPLACE
ML270-7-4EB
LM 1.61

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	31	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 6

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSigned

REPLACE
ML270-7-7WB
LM 2.55

EXIT 7
128
Carpenter Dam Road

REPLACE
ML270-7-6WB
LM 2.75

Natural State Golf Trail
EXIT 7

REPLACE
ML270-7-5WB
LM 2.91

Lake Catherine State Park
EXIT 7

REPLACE
ML270-7-4WB
LM 2.97

State Police HQ
EXIT 7

REPLACE
ML270-7-3WB
LM 3.04

National Park Medical Center
EXIT 7

REPLACE
ML270-7-2WB
LM 3.22

Garvan Woodland Gardens
EXIT 7

INSTALL
SS270-3.38WB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
ML270-7-1WB
LM 3.55

EXIT 7
128
Carpenter Dam Rd
1 MILE

REPLACE
SS270-3.69WB

SPEED LIMIT
65

REPLACE
LFC270-7WB
LM 3.73

FOOD EXIT 7
CAMPING EXIT 7

270

EAST 270 EAST 70
REPLACE
SS270-2.69EB

REPLACE
SS270-2.75EB

SPEED LIMIT
65

GAS EXIT 9
FOOD EXIT 9
REPLACE
LGF270-9EB
LM 2.92

INSTALL
SS270-3.03EB

SLOWER TRAFFIC KEEP RIGHT

EXIT 9
WEST 270B EAST 270
Malvern Ave
¾ MILE
REPLACE
ML270-9-1EB
LM 3.12

N

INSTALL
SS270-3.65EB

60
M.P.H.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	32	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 270, SEC 6

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI

DocuSigned by: 4/6/2021 | 1:34:41 PM

INSTALL
SS70-0.14WB
60 M.P.H.

REPLACE
SS70-0.11WB

REPLACE
SS270-RAMP9-3EB

WEST 270B EAST 270
Hot Springs Malvern

WEST 270B EAST 270
LEFT LANE RIGHT LANE
REPLACE
SS270-RAMP9-2EB

INSTALL
SS270-RAMP9-1EBA
SS270-RAMP9-1EBB

REPLACE
WEST 270 WEST 70
SS270-3.80WB

EXIT 9
REPLACE
EXIT9-EB
LM 4.05

270

EXIT 9
WEST 270B EAST 270
Malvern Ave
REPLACE
ML270-9-2EB
LM 3.90

REPLACE 9 EACH
SS270-3.74EB
SS270-3.76EB
SS270-3.78EB
SS270-3.80EB
SS270-3.82EB
SS270-3.84EB
SS270-3.86EB
SS270-3.88EB
SS270-3.90EB

270

N

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	33	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 70, SEC 9

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign



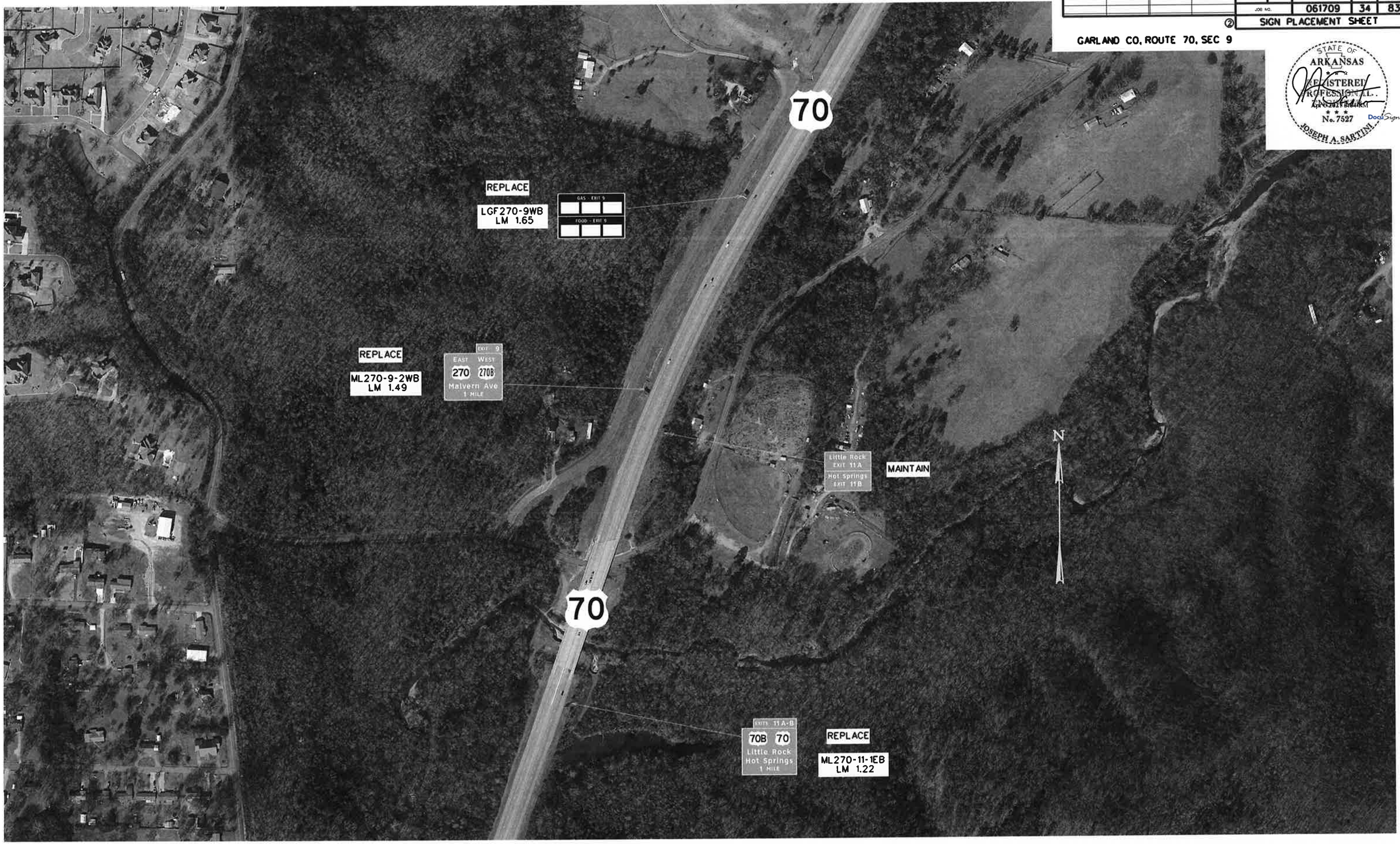
DATE REVISED	DATE F&WED	DATE REVISED	DATE F&WED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	34	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 70, SEC 9

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI

DocuSign



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	35	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 70, SEC 9

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI DocuSign

REPLACE
BRIDGE ICES BEFORE ROAD
SS70B-5.40WB

REPLACE
SS70-2.54WB

REPLACE
SS70-2.28WB

REPLACE
WEST 70

70

EXIT 11A
REPLACE
EXIT 11A-EB
LM 2.53

REPLACE
EXIT 11B
70B WEST
Hot Springs
1/4 MILE

REPLACE
EXIT 11A
70 EAST
Little Rock

OH70-11-1BEB OH70-11-1AEB

RETAIN EXISTING GUARDRAIL

EXITS 11A-B
WEST 70B EAST 70
Little Rock
Hot Springs

REPLACE
ML70-11-5EB
LM 2.28

INSTALL
STATE LAW
MOVE OVER SAFELY OR SLOW DOWN FOR STOPPED VEHICLES WITH FLASHING LIGHTS
ML70-9-1WB
LM 2.12

MAINTAIN

Little Rock
NEXT RIGHT
MAINTAIN

Magic Springs
Crystal Falls
EXIT 11B
REPLACE
ML70-11-3EB
LM 1.96

N

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	36	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 70, SEC 9

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7527 JOSEPH A. SARTINI DocuSign

REPLACE
SS70B-5.26WB

SLOWER TRAFFIC KEEP RIGHT

70B

EXIT 11B 70B WEST 25 MPH

REPLACE
EXIT11B-EB
LM 5.57

ML 70B-5-1WB
MAINTAIN

EXIT 6

REPLACE
EXIT6-WB
LM 5.86

70

EXIT 6

REPLACE
EXIT6-EB
LM 5.21

REPLACE
BRIDGE ICES BEFORE ROAD
SS70B-5.40WB

REPLACE
SS70-2.54WB

70

EXIT 11A

REPLACE
EXIT11A-EB
LM 2.53

REPLACE
EXIT 11B 70B WEST Hot Springs ¼ MILE

REPLACE
EXIT 11A 70 EAST Little Rock

OH70-11-1BEB OH70-11-1AEB

RETAIN EXISTING GUARDRAIL

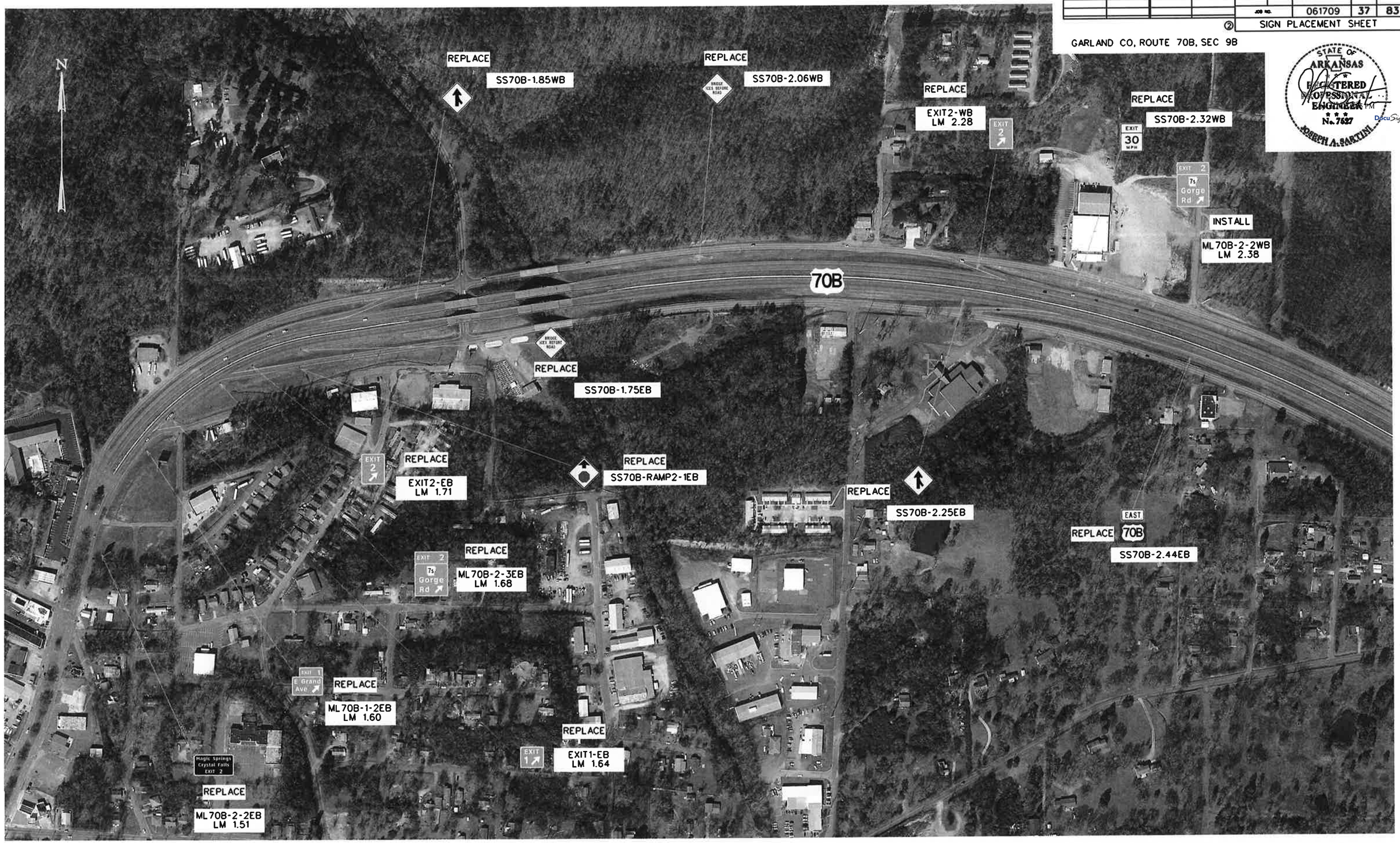
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	37	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 70B, SEC 9B

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 7627 JOSEPH A. MARTINI

DocuSign



DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	38	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 70B, SEC 9B

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
DocuSigned by:



DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	39	83

② SIGN PLACEMENT SHEET

GARLAND CO, ROUTE 70B, SEC 9B

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
DocuSigned by:

REMOVE
ML70B-3-5WB
LM 3.45

REPLACE
SS70B-3.42EB

INSTALL
ML70B-3-3WB
LM 3.65

Magic Springs
Crystal Falls
EXIT 3

REPLACE
SS70B-3.72WB

REPLACE
ML70B-3-2WB
LM 3.74

HOT SPRINGS
BOYHOOD HOME OF
PRESIDENT
BILL CLINTON

REPLACE
SS70B-3.46EB-A
SS70B-3.46EB-B

INSTALL
ML70B-3-1WB
LM 4.12

EXIT 3
Mill Creek Rd
1 MILE

REPLACE
EXIT4-WB
LM 4.33

EXIT 4

INSTALL
ML70B-4-2WB
LM 4.38

EXIT 4
McClendon
Rd

REPLACE
SS70B-4.20WB-A
SS70B-4.20WB-B

REPLACE
SS70B-3.76EB

70B

EAST
REPLACE 70B
SS70B-3.90EB

ML70B-5-1EB
MAINTAIN

N

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	40	83

② SIGN PLACEMENT SHEET

GARLAND CO. ROUTE 70B, SEC 9B

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
DocuSign

INSTALL
ML70B-4-1WB
LM 4.85

EXIT 4
McClendon Rd
½ MILE

REPLACE
SS70B-4.87WB

REPLACE
SS70B-RAMP5-2WBA
SS70B-RAMP5-2WBB

REPLACE
SS70B-RAMP5-3WB

AVN 3NORMS

Westinghouse drive

ML70B-5-2WB
MAINTAIN

REPLACE
SS70B-5.26WB

SLOWER TRAFFIC KEEP RIGHT

REPLACE
SS70B-RAMP5-1WB

EXIT
30
MPH

INSTALL
SS70B-4.95WB

30
M.P.H.

EXIT5-WB
MAINTAIN

70B

70B

ML70B-5-2EB
MAINTAIN

EXIT
40
MPH

REPLACE
SS70B-RAMP5-1EB

EXIT5-EB
MAINTAIN

ML70B-6-1EB
MAINTAIN

REPLACE
SS70B-RAMP5-2EBA
SS70B-RAMP5-2EBB

ML70B-6-2EB
MAINTAIN

ML70B-6-3EB
MAINTAIN

AVN 3NORMS

Westinghouse drive

REPLACE
SS70B-RAMP5-3EB

REPLACE

EXIT
6

EXIT6-EB
LM 5.21

REPLACE

BRIDGE ICES BEFORE ROAD

SS70B-5.40WB

REPLACE
SS70-2.54WB

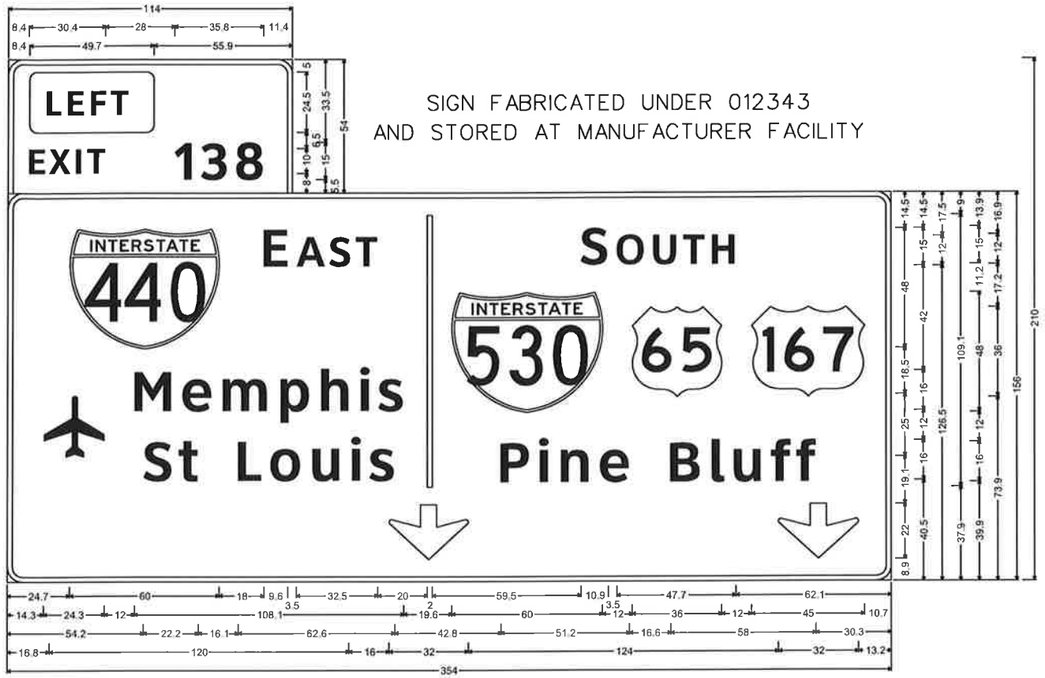
70

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	41	83
				②		SIGN LAYOUT SHEET		

OH-030-60-67

REPLACES BM-030-60-37

SIGN FABRICATED UNDER 012343
AND STORED AT MANUFACTURER FACILITY

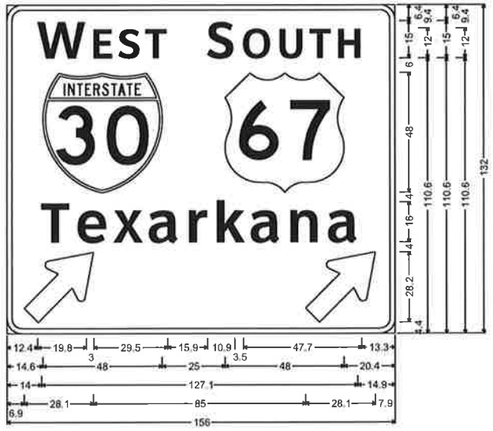


BM30-138-2WB;

6.0" Radius, 2.0" Border, While on, Green;
Rounded Rectangle 3.0" Radius Yellow;
"EXIT", ClearviewHwy-5-W-R; "138", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, While on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; Symbol RA010; "Memphis", ClearviewHwy-5-W-R; "St Louis", ClearviewHwy-5-W-R; "S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R; "Pine Bluff", ClearviewHwy-5-W-R; Rectangle Green; Down Arrow 22.0" 270'; Down Arrow 22.0" 270';

SIGN FABRICATED UNDER 012343
AND STORED AT MANUFACTURER FACILITY



BM30-138-1WB;

6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R;
"S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R;
"Texarkana", ClearviewHwy-5-W-R; Arrow Custom - 35.8" 45';
Arrow Custom - 35.8" 45';

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

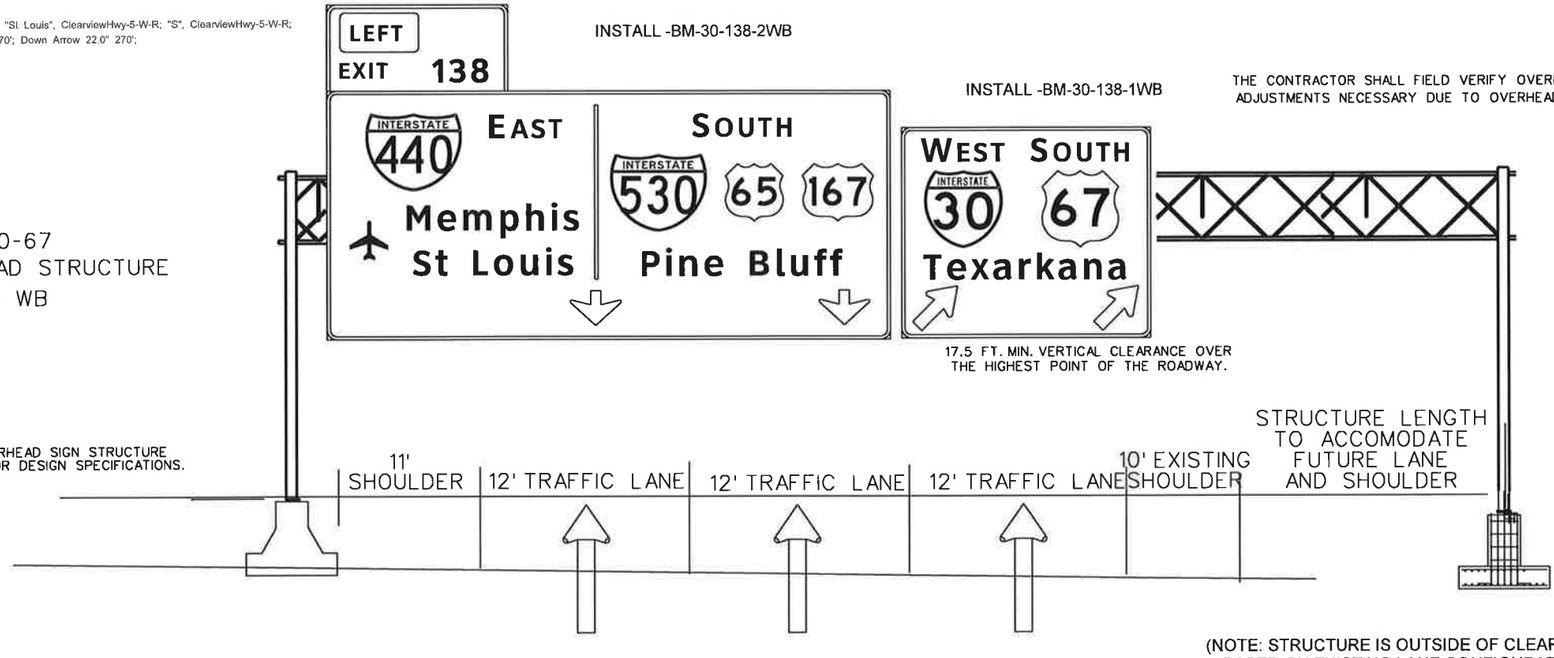
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

INSTALL -BM-30-138-2WB

INSTALL -BM-30-138-1WB

THE CONTRACTOR SHALL FIELD VERIFY OVERHEAD PLACEMENT WITH RE AND MAKE ANY ADJUSTMENTS NECESSARY DUE TO OVERHEAD POWER LINES AND MEDIAN WALL BARRIER.

OH-030-60-67
INSTALL OVERHEAD STRUCTURE
LM 138.10 WB



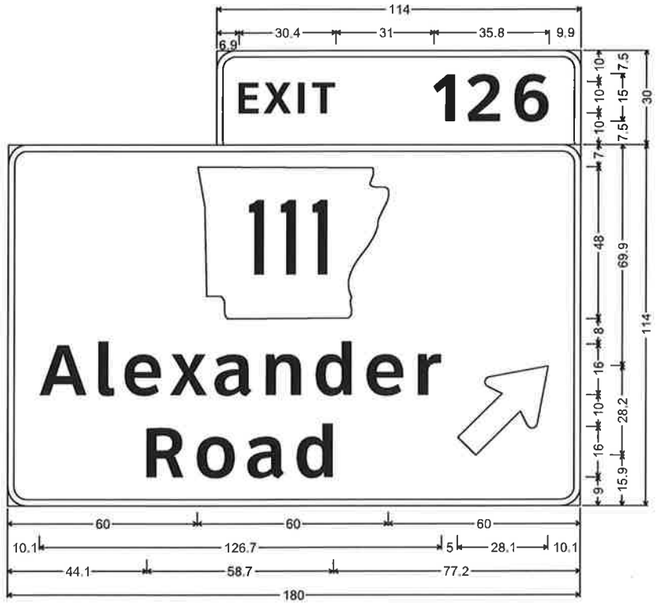
(NOTE: STRUCTURE IS OUTSIDE OF CLEARZONE BASED ON EXISTING LANE CONFIGURATION; THEREFORE, NO GUARDRAIL IS TO BE INSTALLED AT THIS TIME)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	42	83

② SIGN LAYOUT SHEET

OC-030-62-06/
OC-030-62-26



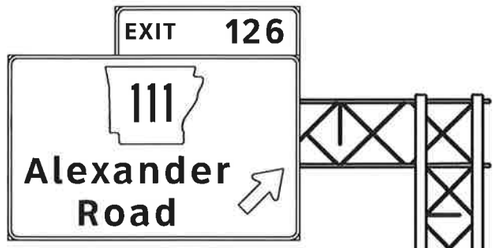
OC30-126-1EB;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "126", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Alexander", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45';

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

INSTALL
OC30-126-1EB

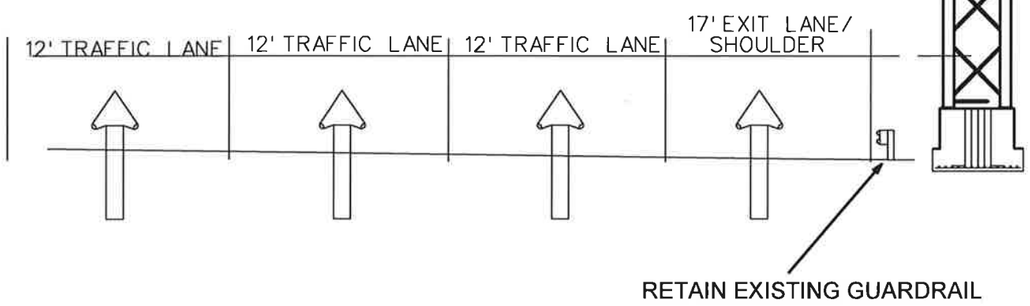


REPLACE OVERHEAD STRUCTURE
OC-030-62-06
WITH OC-030-62-26

LM 125.88 EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

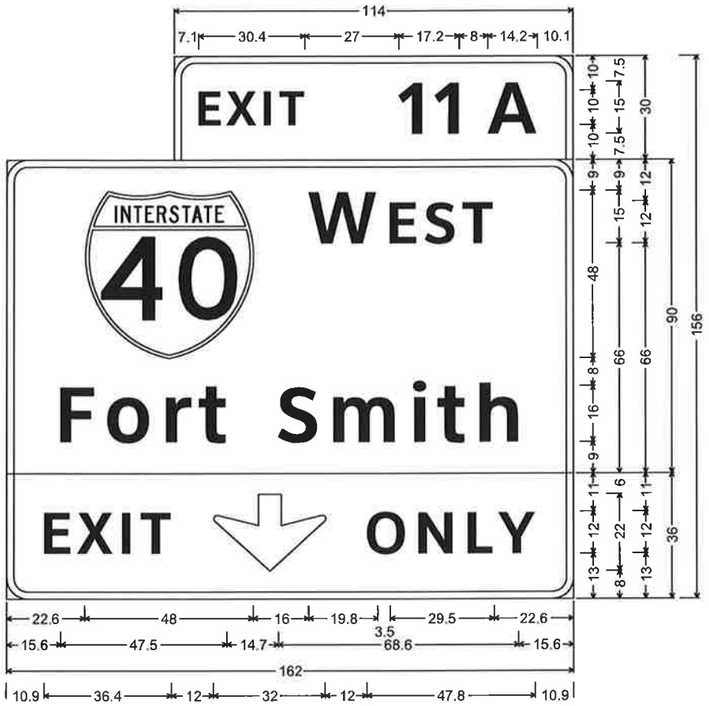




DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	43	83

② SIGN LAYOUT SHEET

OC-440-60-28/
OC-440-60-52



OC440-11-2WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R;
"A", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R;
"Fort Smith", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Down Arrow 22.0" 270';
"ONLY", ClearviewHwy-5-W-R;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

INSTALL
OC440-11-2WB

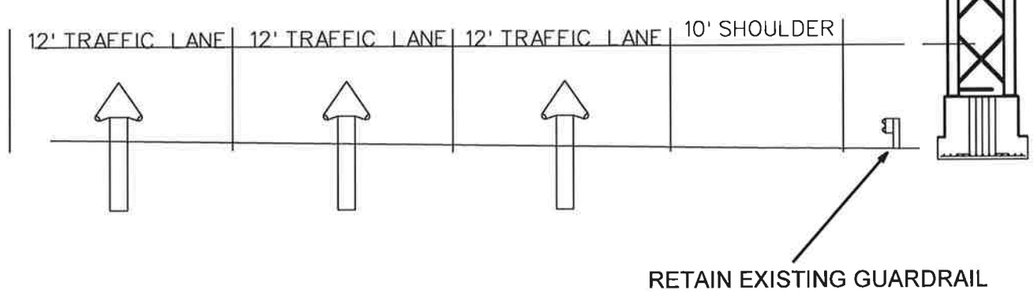


17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

INSTALL OVERHEAD STRUCTURE
OC-440-60-52

LM 2.86 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

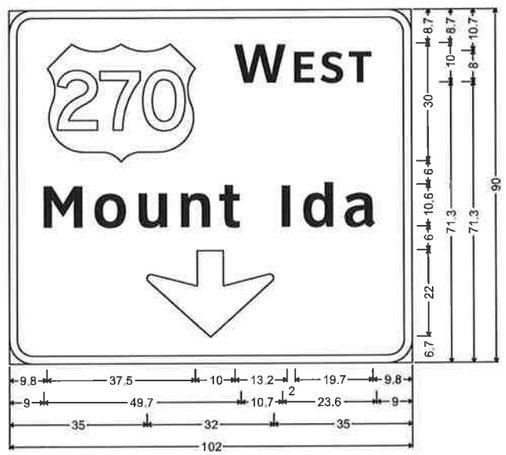


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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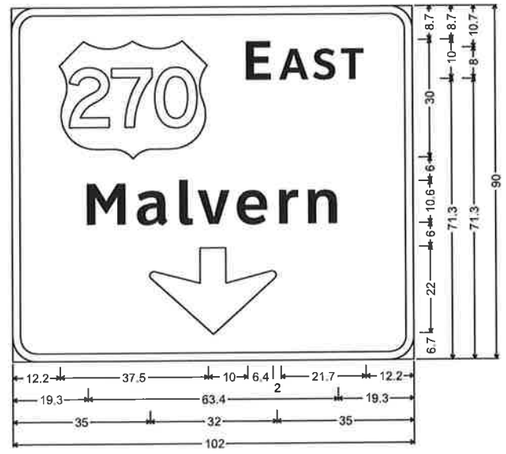
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. RD PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	44	83

② SIGN LAYOUT SHEET

BM-270-26-08



BM270-1-2WB;
6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R;
"Mount Ida", ClearviewHwy-5-W-R; Down Arrow 22.0" 270';



BM270-1-1WB;
6.0" Radius, 2.0" Border, White on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R;
"Malvern", ClearviewHwy-5-W-R; Down Arrow 22.0" 270';

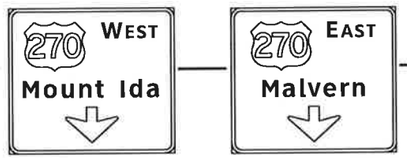
NOTES:
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SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

REPLACE
BM270-1-2WB

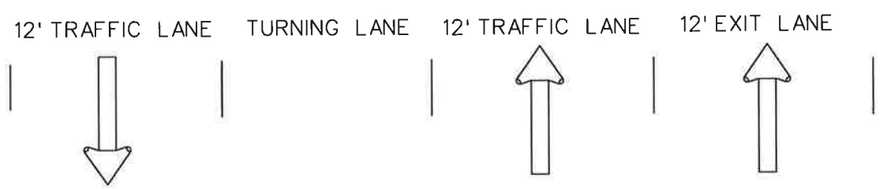
REPLACE
BM270-1-1WB

MAINTAIN BM-270-26-08
LM 0.13 WB



BRIDGE # 06277

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

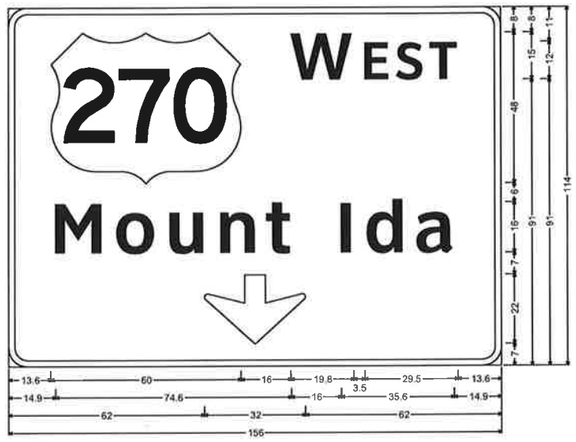


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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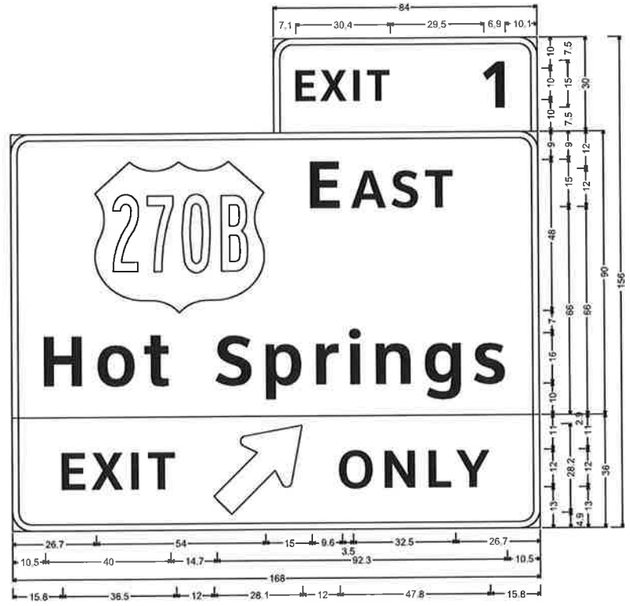
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	45	83

② SIGN LAYOUT SHEET

OH-270-26-01



OH270-1-2WB;
6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; "Mount Ida", ClearviewHwy-5-W-R;
Down Arrow 22.0" 270';



OH270-1-1WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;

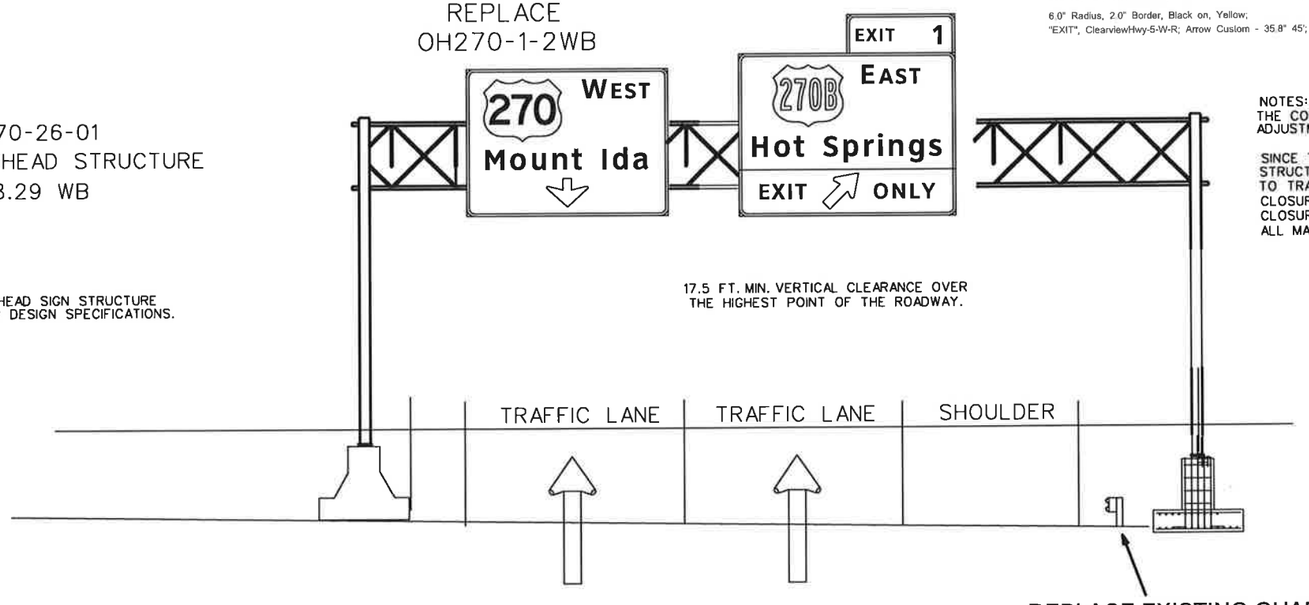
6.0" Radius, 2.0" Border, White on, Green;
us270b; "E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "Hot Springs", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Arrow Custom - 35.8° 45°; "ONLY", ClearviewHwy-5-W-R;

REPLACE
OH270-1-1WB

REPLACE
OH270-1-2WB

OH-270-26-01
MAINTAIN OVERHEAD STRUCTURE
LM 18.29 WB



SEE OVERHEAD SIGN STRUCTURE
DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER
THE HIGHEST POINT OF THE ROADWAY.

REPLACE EXISTING GUARDRAIL
(NOTE: REFER TO SPECIAL DETAILS FOR
SHOULDER WIDENING AND GUARDRAIL PLACEMENT)

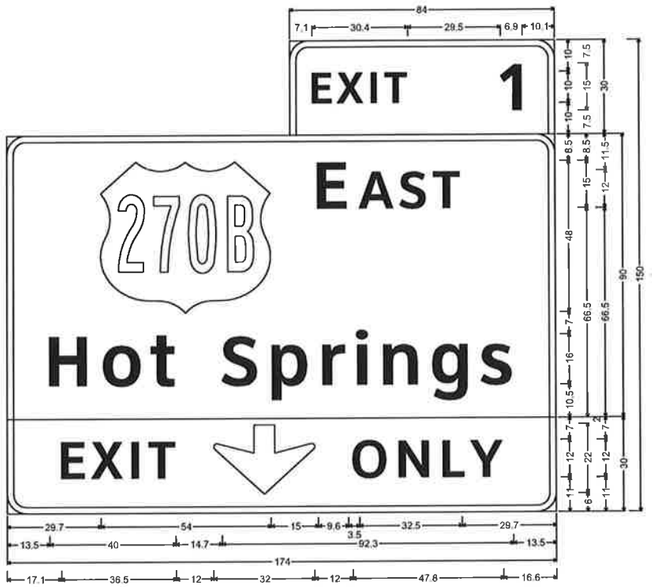
NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	46	83
				②	SIGN LAYOUT SHEET			

OC-270-26-02



OC270-1-2WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;

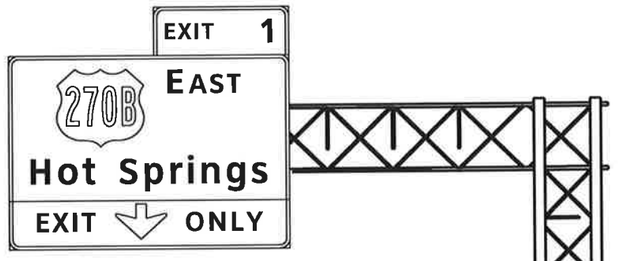
6.0" Radius, 2.0" Border, White on, Green;
us270b; "E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "Hot Springs", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Down Arrow 22.0" 270°; "ONLY", ClearviewHwy-5-W-R;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

REPLACE
OC270-1-2WB

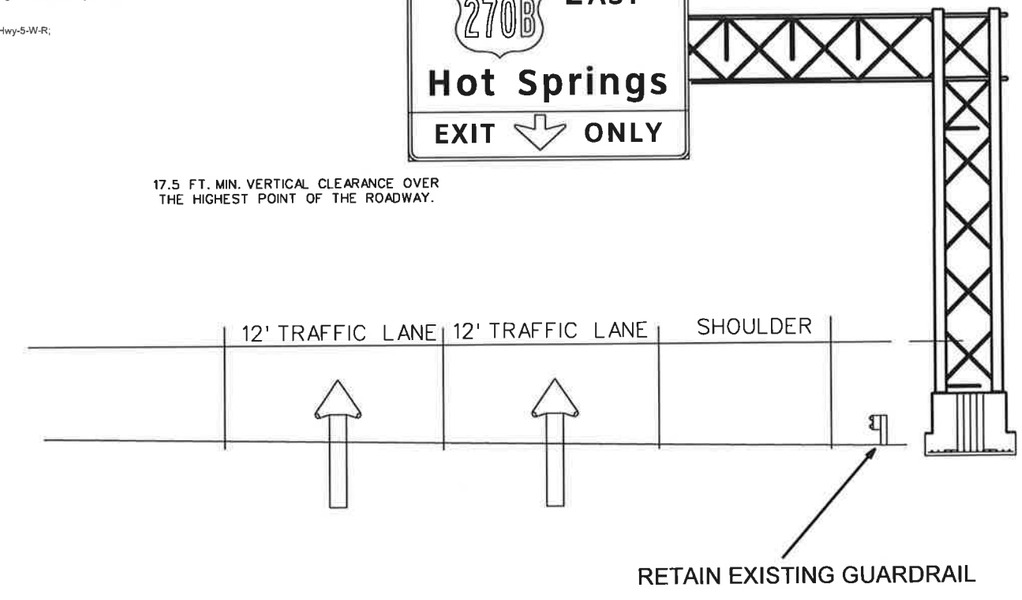


17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

MAINTAIN OVERHEAD STRUCTURE
OC-270-26-02

LM 18.76 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

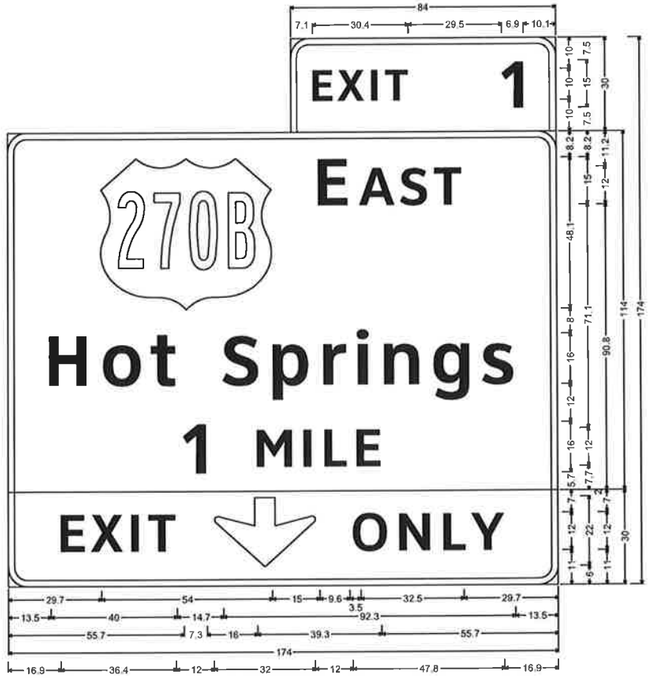


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	47	83

② SIGN LAYOUT SHEET

OC-270-26-03



OC270-1-1WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;

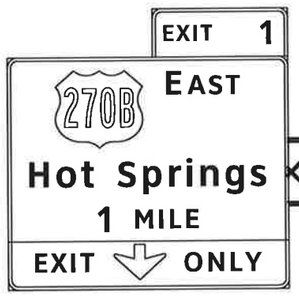
6.0" Radius, 2.0" Border, White on, Green;
us270b; "E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "Hot Springs", ClearviewHwy-5-W-R;
"1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Down Arrow 22.0" 270'; "ONLY", ClearviewHwy-5-W-R;

NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

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REPLACE
OC270-1-1WB

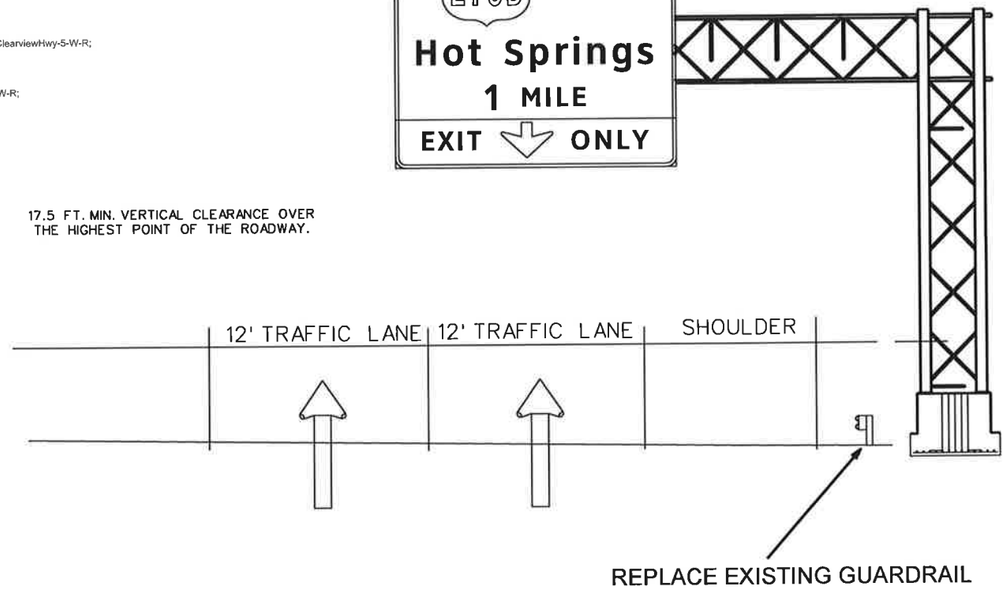


MAINTAIN OVERHEAD STRUCTURE
OC-270-26-03

LM 19.24 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

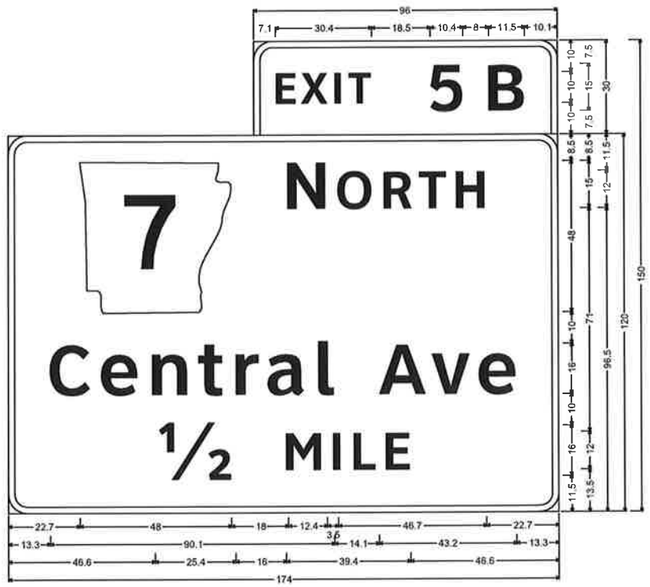




DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	48	83

② SIGN LAYOUT SHEET

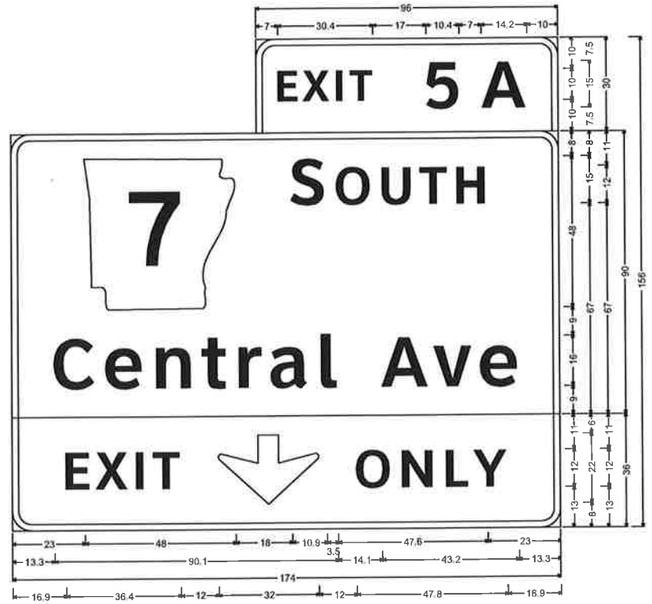
OH-270-26-04
EAST BOUND



OH270-5-2EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"N", ClearviewHwy-5-W-R; "ORTH", ClearviewHwy-5-W-R; "Central Ave", ClearviewHwy-5-W-R;
"½", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



OH270-5-1EB ;

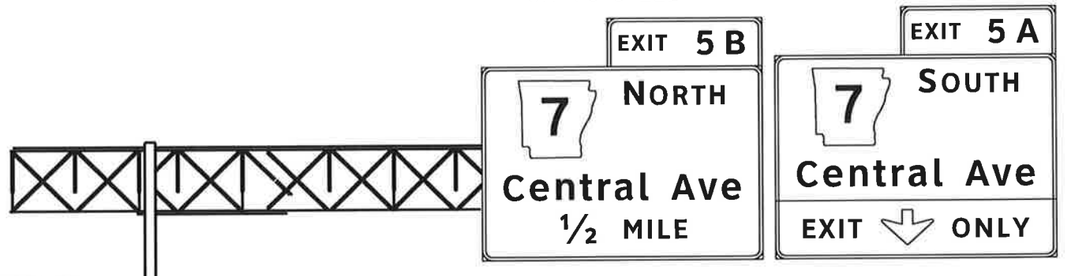
6.0" Radius, 2.0" Border, While on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R; "Central Ave", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Down Arrow 22.0" 270; "ONLY", ClearviewHwy-5-W-R;

REPLACE
OH270-5-2EB

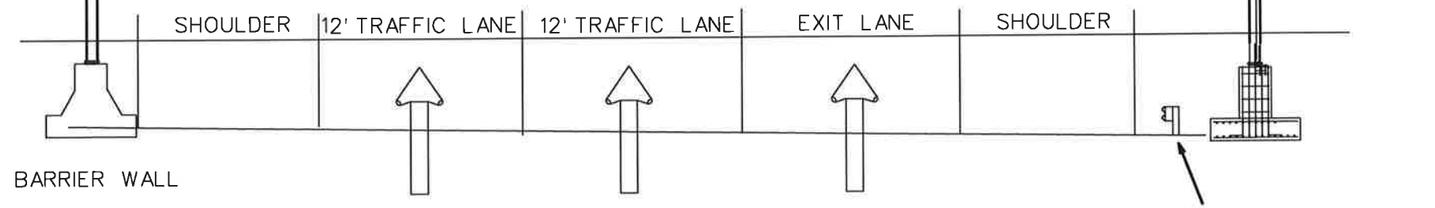
REPLACE
OH270-5-1EB



17.5 FT. MIN. VERTICAL CLEARANCE OVER
THE HIGHEST POINT OF THE ROADWAY.

OH-270-26-04
MAINTAIN OVERHEAD STRUCTURE
LM 22.15 EB

SEE OVERHEAD SIGN STRUCTURE
DETAILS FOR DESIGN SPECIFICATIONS.



NOTES:
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	49	83
				②	SIGN LAYOUT SHEET			

OH-270-26-04
WEST BOUND

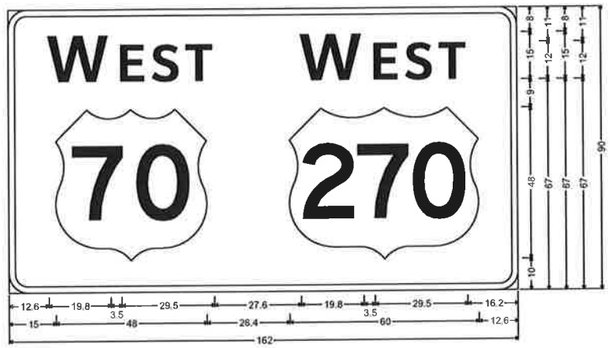


OH270-4-3WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Higdon Ferry", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Arrow Custom - 35.8" 45°; "ONLY", ClearviewHwy-5-W-R;



OH270-4-4WB;
6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; "W", ClearviewHwy-5-W-R;
"EST", ClearviewHwy-5-W-R;

REPLACE
OH270-4-4WB

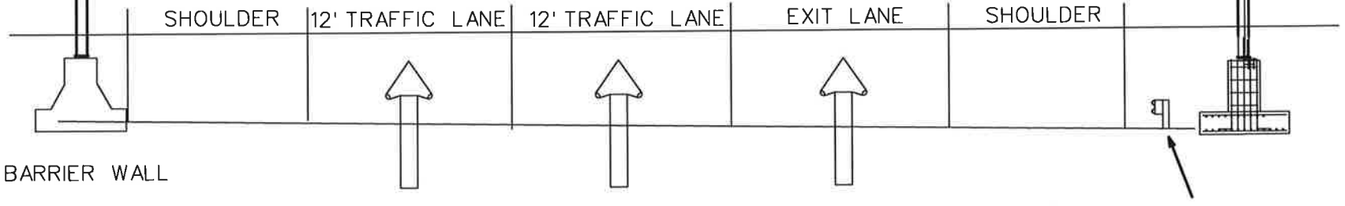
REPLACE
OH270-4-3WB



17.5 FT. MIN. VERTICAL CLEARANCE OVER
THE HIGHEST POINT OF THE ROADWAY.

OH-270-26-04
MAINTAIN OVERHEAD STRUCTURE
LM 22.15 WB

SEE OVERHEAD SIGN STRUCTURE
DETAILS FOR DESIGN SPECIFICATIONS.



NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

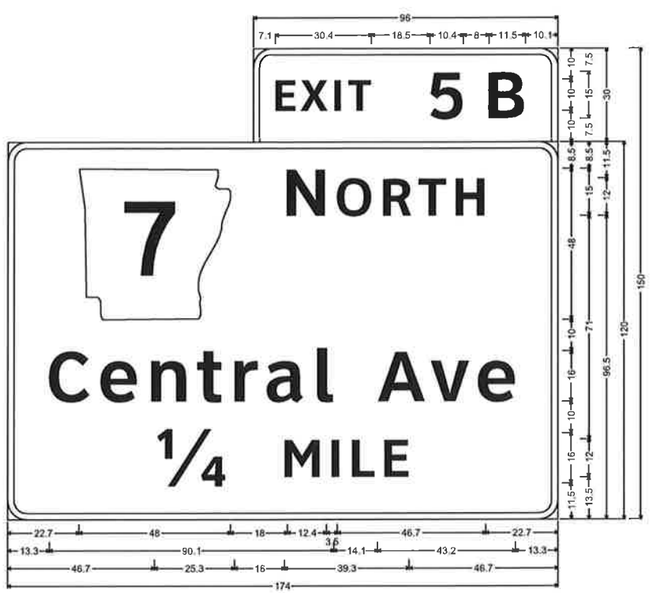
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				6	ARK.			
				JOB NO.		061709	50	83

② SIGN LAYOUT SHEET

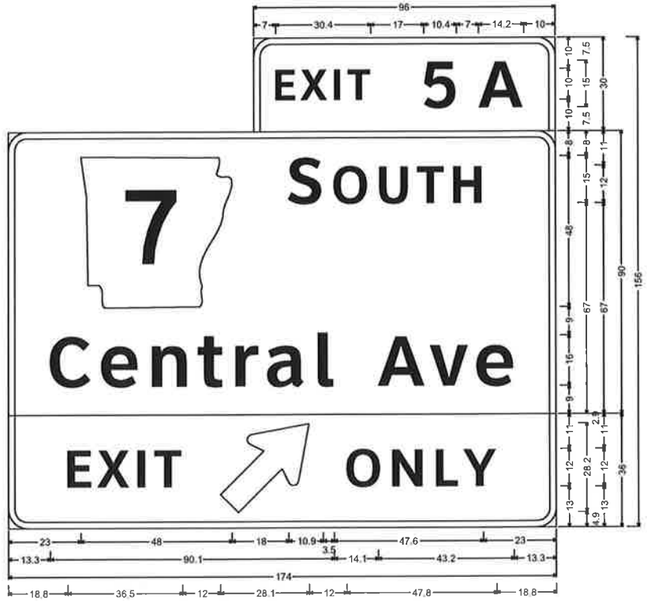
OH-270-26-05
EAST BOUND



OH270-5-4EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"N", ClearviewHwy-5-W-R; "ORTH", ClearviewHwy-5-W-R; "Central Ave", ClearviewHwy-5-W-R;
"¼", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



OH270-5-3EB ;

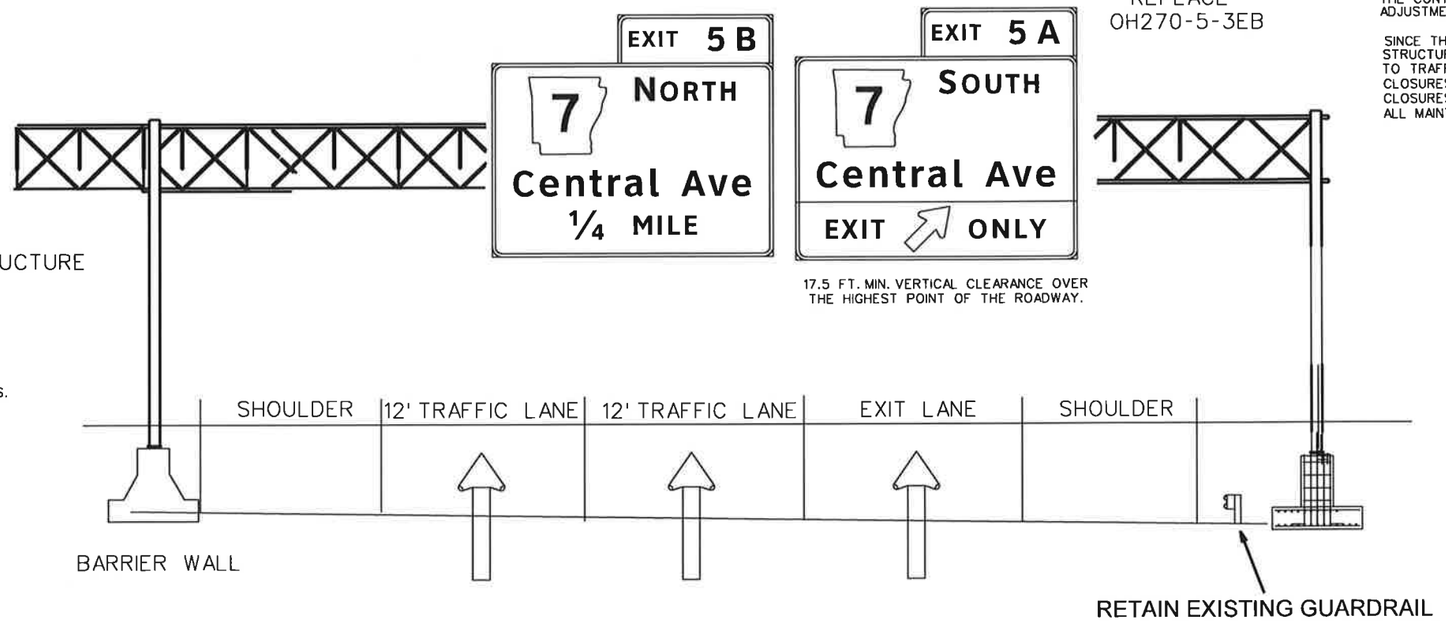
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R; "Central Ave", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Arrow Custom - 35.8° 45°; "ONLY", ClearviewHwy-5-W-R;

REPLACE
OH270-5-4EB

REPLACE
OH270-5-3EB



17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

OH-270-26-05
MAINTAIN OVERHEAD STRUCTURE
LM 22.53 EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Apr 6 2021 4:09 PM
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	51	83
				②	SIGN LAYOUT SHEET			

OH-270-26-05
WEST BOUND



OH270-4-2WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Higdon Ferry", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, Black on, Yellow;
"EXIT", ClearviewHwy-5-W-R; Down Arrow 22.0" 270°; "ONLY", ClearviewHwy-5-W-R;

REPLACE
OH270-4-2WB



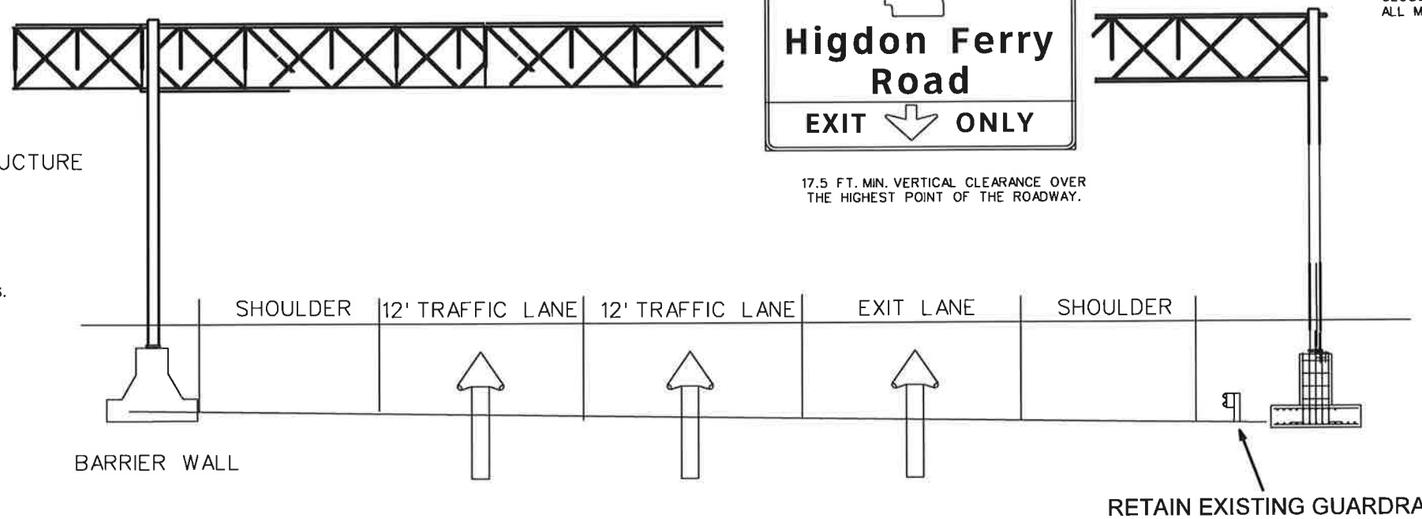
17.5 FT. MIN. VERTICAL CLEARANCE OVER
THE HIGHEST POINT OF THE ROADWAY.

NOTES:
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OH-270-26-05
MAINTAIN OVERHEAD STRUCTURE
LM 22.53 WB

SEE OVERHEAD SIGN STRUCTURE
DETAILS FOR DESIGN SPECIFICATIONS.

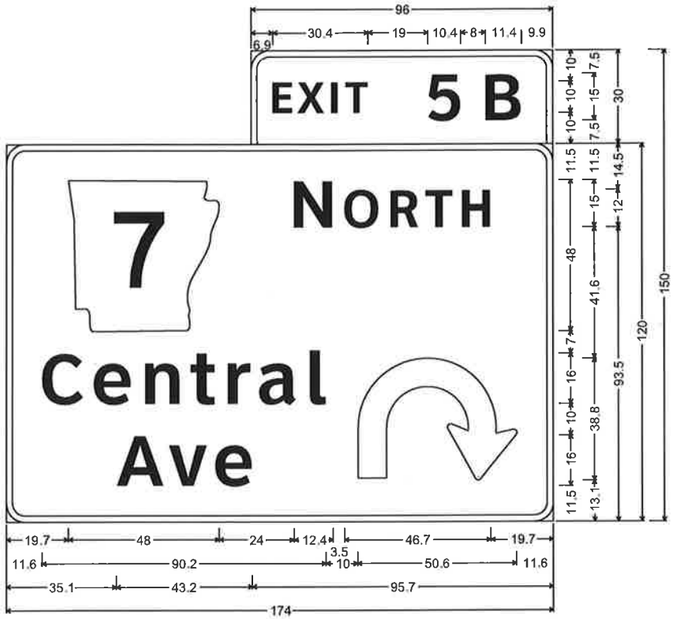


STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Apr 6 2021 1:09 PM
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				6	ARK.			
				JOB NO.		061709	52	83

② SIGN LAYOUT SHEET

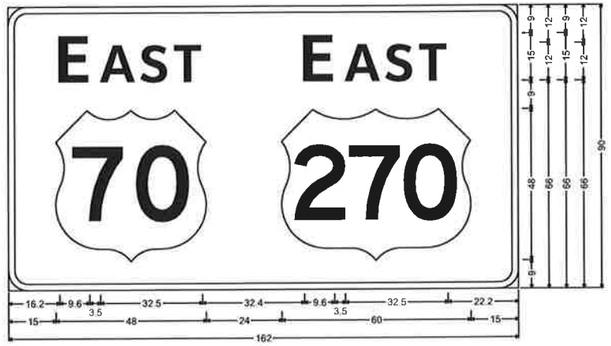
OH-270-26-06
EAST BOUND



OH270-5-5EB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

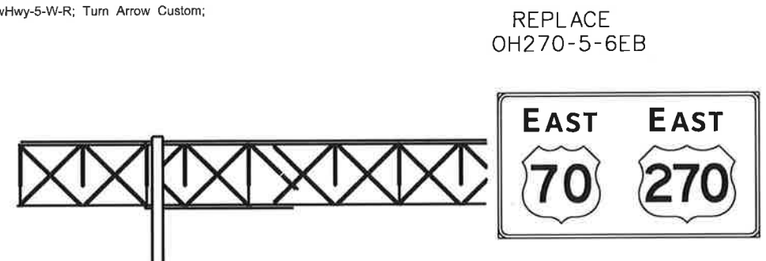
6.0" Radius, 2.0" Border, White on, Green;
"N", ClearviewHwy-5-W-R; "ORTH", ClearviewHwy-5-W-R;
"Central", ClearviewHwy-5-W-R; "Ave", ClearviewHwy-5-W-R; Turn Arrow Custom;

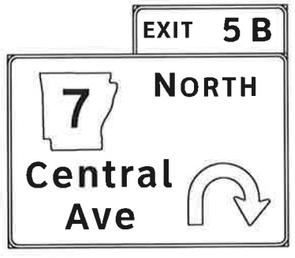


OH270-5-6EB;
6.0" Radius, 2.0" Border, White on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "E", ClearviewHwy-5-W-R;
"AST", ClearviewHwy-5-W-R;

REPLACE
OH270-5-6EB

REPLACE
OH270-5-5EB

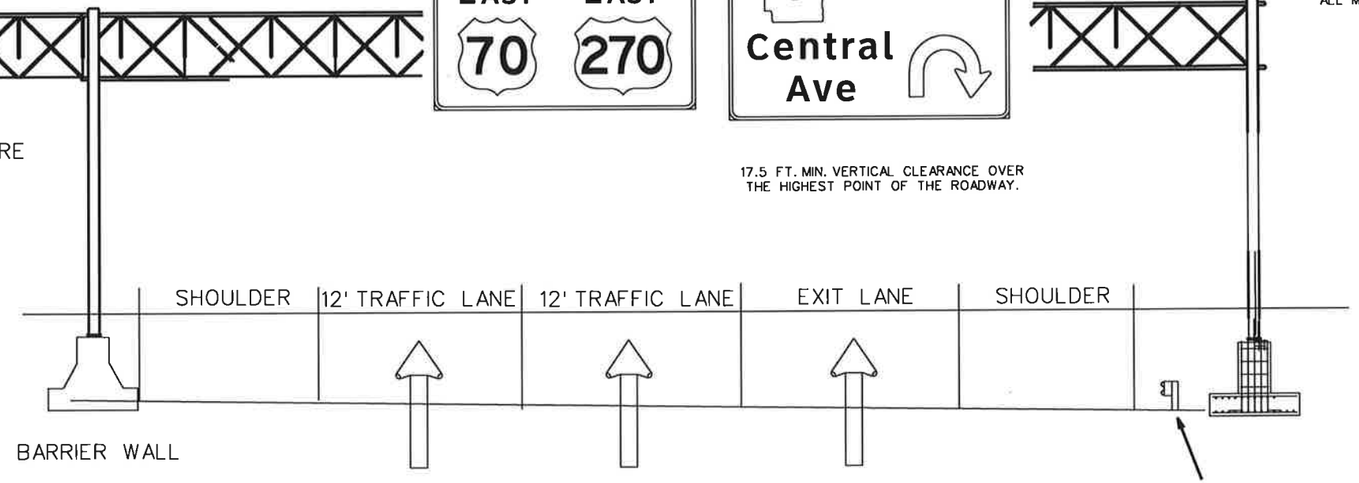




17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

OH-270-26-06
MAINTAIN OVERHEAD STRUCTURE
LM 22.73 EB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.



NOTES:
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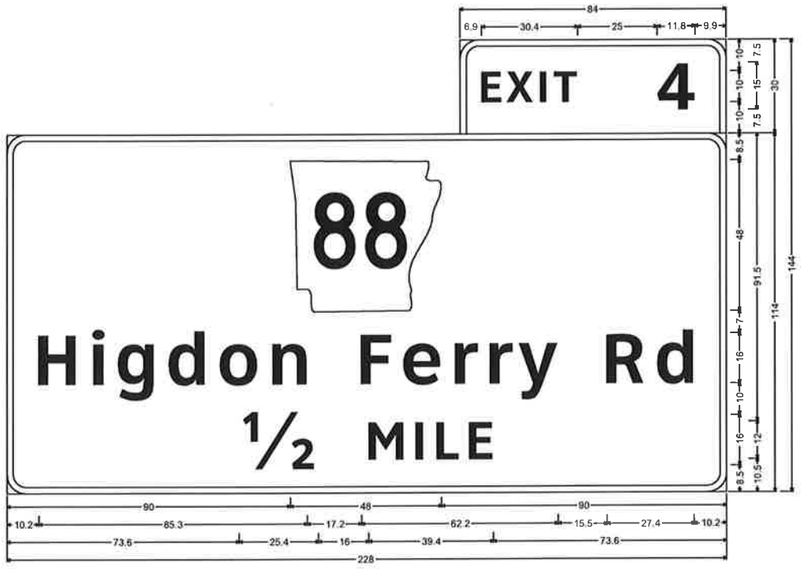
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STATE OF ARKANSAS
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JOSEPH A. SARTINI
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				6	ARK.			
				JOB NO.		061709	53	83

② SIGN LAYOUT SHEET

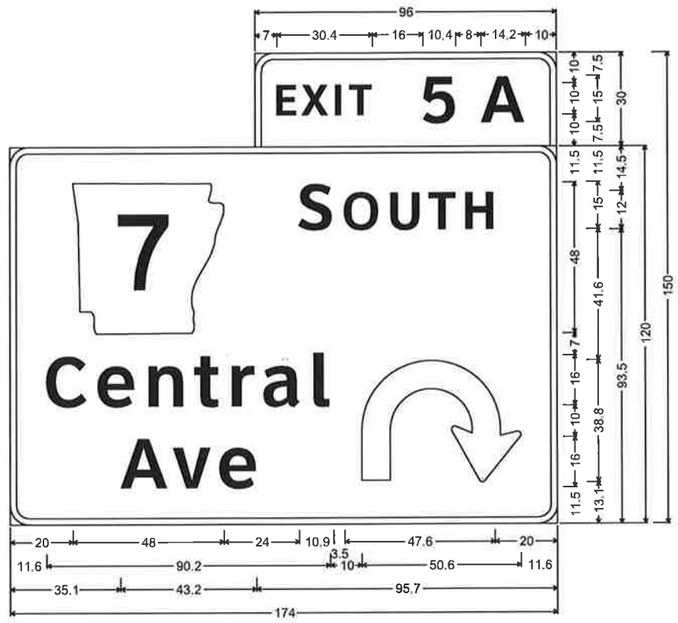
OH-270-26-06
WEST BOUND



OH270-4-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Higdon Ferry Rd", ClearviewHwy-5-W-R; "½", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



OH270-5-3WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

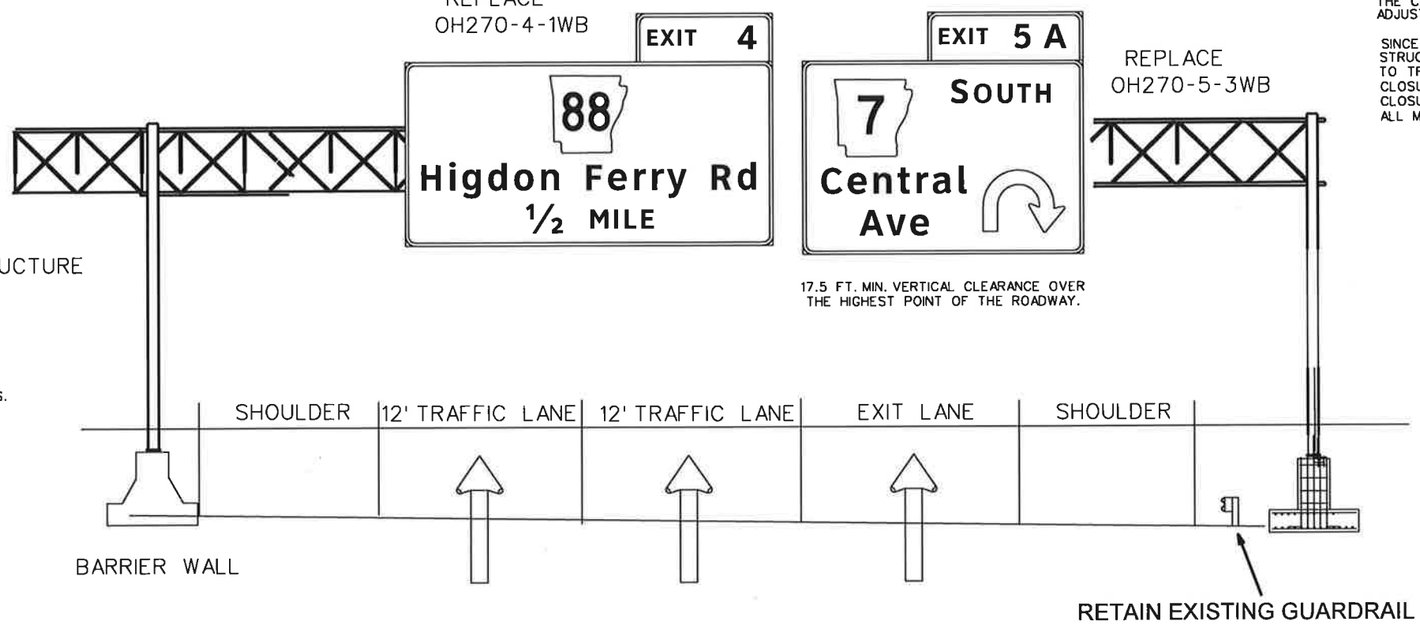
6.0" Radius, 2.0" Border, White on, Green;
"S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R;
"Central", ClearviewHwy-5-W-R; "Ave", ClearviewHwy-5-W-R; Turn Arrow Custom;

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REPLACE
OH270-4-1WB

REPLACE
OH270-5-3WB



OH-270-26-06
MAINTAIN OVERHEAD STRUCTURE
LM 22.73 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

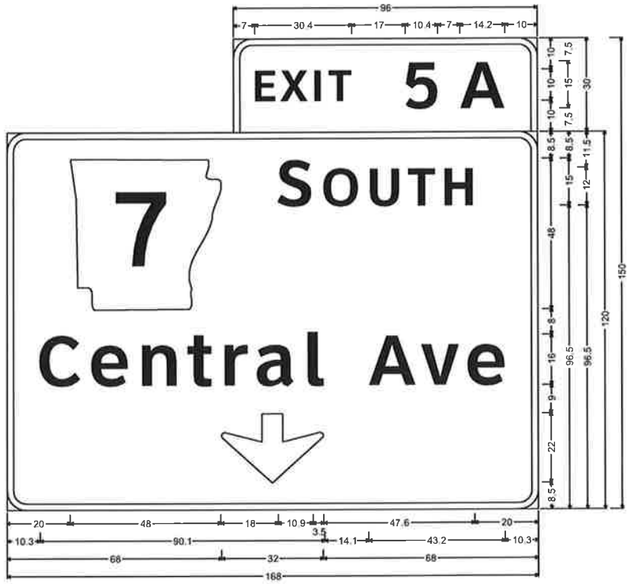
17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.

STATE OF ARKANSAS
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JOSEPH A. SARTINI
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	54	83

② SIGN LAYOUT SHEET

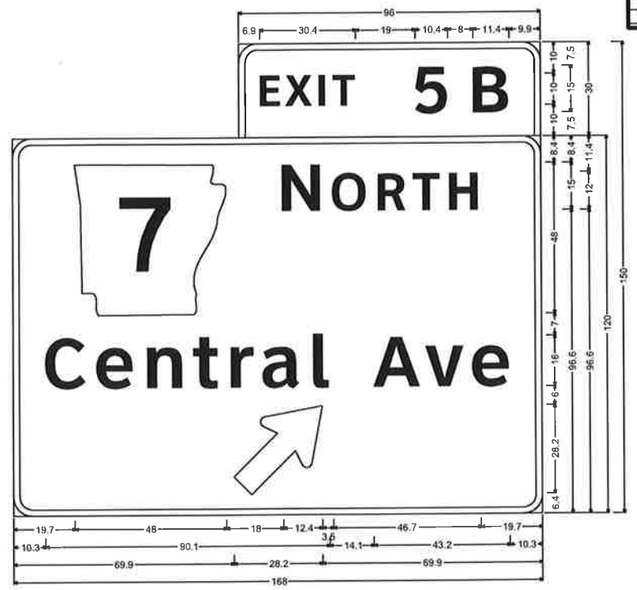
OH-270-26-07



OH270-5-2WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"S", ClearviewHwy-5-W-R; "OUTH", ClearviewHwy-5-W-R; "Central Ave", ClearviewHwy-5-W-R;
Down Arrow 22.0" 270';



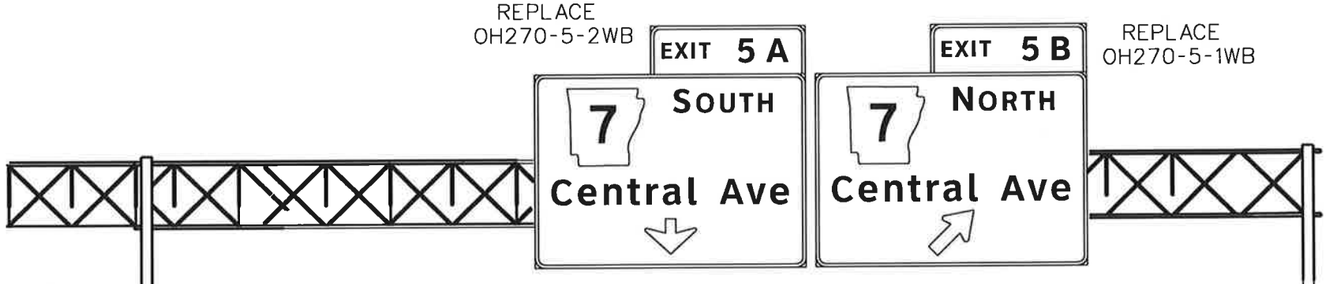
OH270-5-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"N", ClearviewHwy-5-W-R; "ORTH", ClearviewHwy-5-W-R; "Central Ave", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45';

REPLACE
OH270-5-2WB

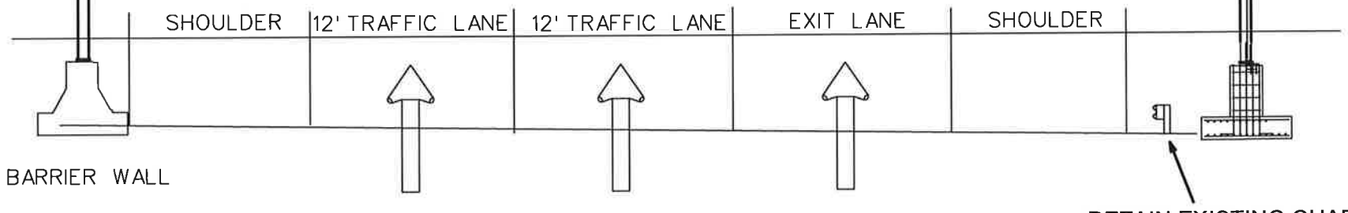
REPLACE
OH270-5-1WB



OH-270-26-07
MAINTAIN OVERHEAD STRUCTURE
LM 0.26 WB

SEE OVERHEAD SIGN STRUCTURE DETAILS FOR DESIGN SPECIFICATIONS.

17.5 FT. MIN. VERTICAL CLEARANCE OVER THE HIGHEST POINT OF THE ROADWAY.



NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

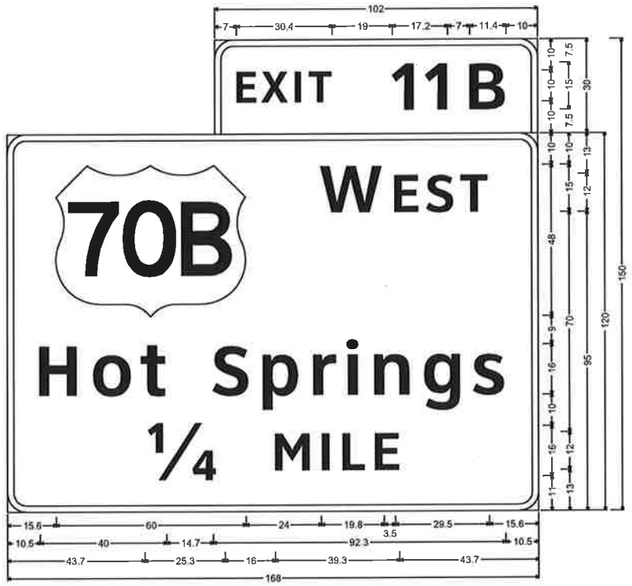
SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. SARTINI
No. 7527
Apr 6 2021 5:10 PM
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	55	83

② SIGN LAYOUT SHEET

OH-070-26-01



OH70-11-1BEB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; "Hot Springs", ClearviewHwy-5-W-R;
"1/4", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



OH70-11-1AEB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R; "A", ClearviewHwy-5-W-R;

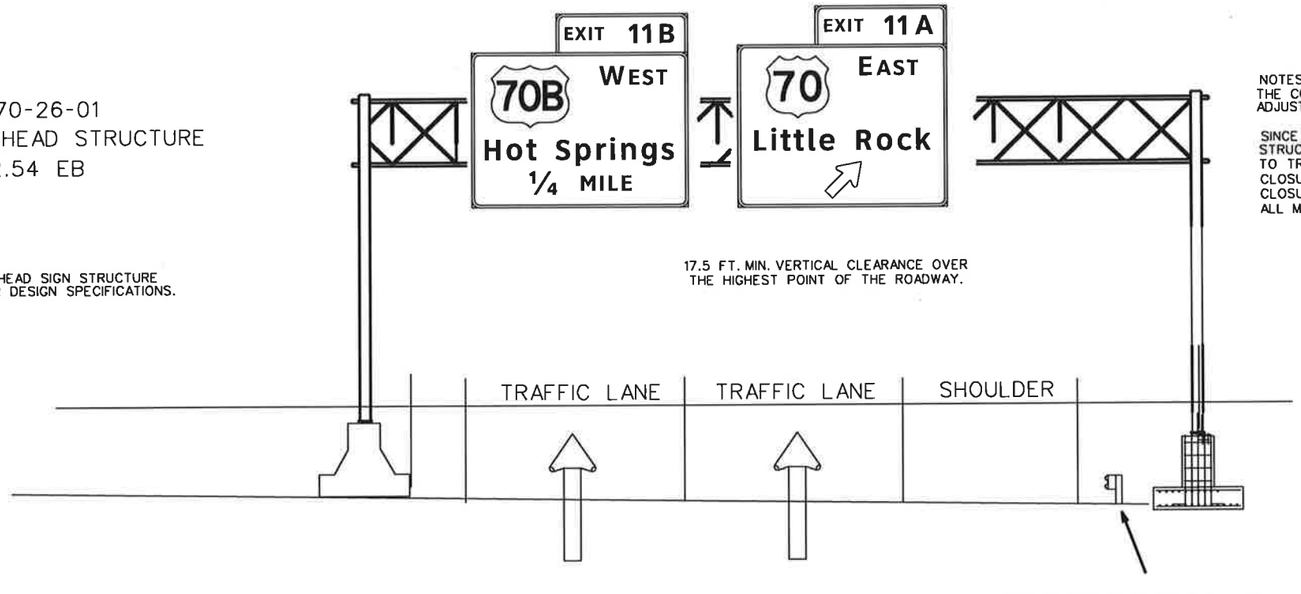
6.0" Radius, 2.0" Border, White on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "Little Rock", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45°;

OH-070-26-01
MAINTAIN OVERHEAD STRUCTURE
LM 2.54 EB

SEE OVERHEAD SIGN STRUCTURE
DETAILS FOR DESIGN SPECIFICATIONS.

INSTALL
OH70-11-1BEB

REPLACE
OH70-11-1AEB



17.5 FT. MIN. VERTICAL CLEARANCE OVER
THE HIGHEST POINT OF THE ROADWAY.

RETAIN EXISTING GUARDRAIL

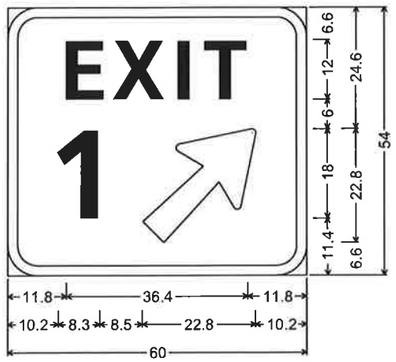
NOTES:
THE CONTRACTOR SHALL FIELD VERIFY SIGN PLACEMENT AND MAKE ANY ADJUSTMENTS NECESSARY TO ALIGN SIGNS OVER INTENDED LANES.

SINCE THE CONTRACTOR WILL BE REQUIRED TO INSTALL OVERHEAD SIGNS ON STRUCTURES WHICH ARE LOCATED OVER THE ROADWAYS WHICH ARE CURRENTLY OPEN TO TRAFFIC, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE LANE CLOSURES AS A PART OF TRAFFIC CONTROL. PAYMENT FOR PROVIDING LANE CLOSURES WILL BE PAID SUBSIDIARY TO THE PAY ITEM "MAINTENANCE OF TRAFFIC". ALL MAINTENANCE OF TRAFFIC WORK MUST CONFORM WITH THE MUTCD.

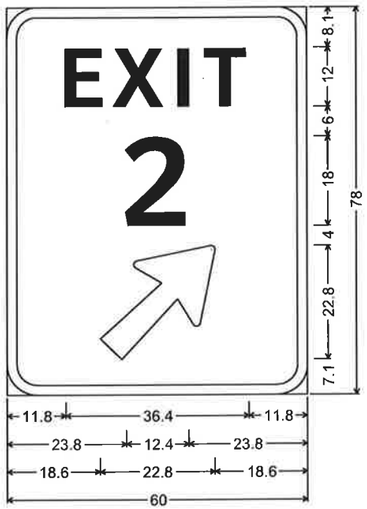
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	56	83

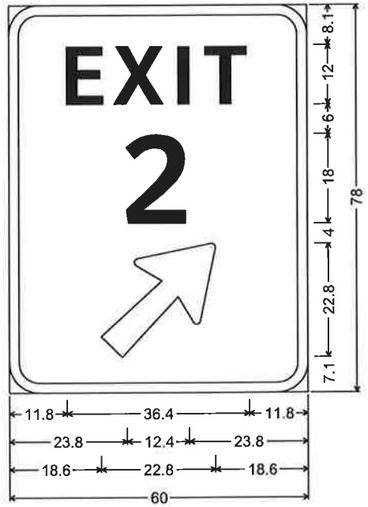
② SIGN LAYOUT SHEET



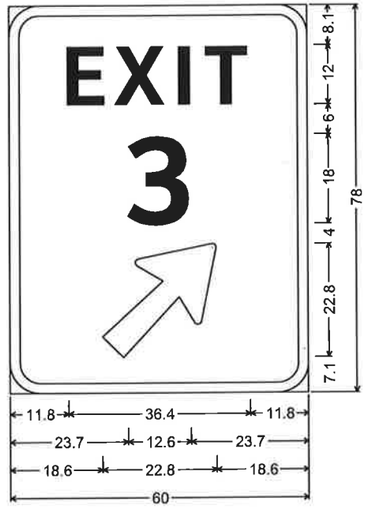
EXIT1-70B-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"1", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



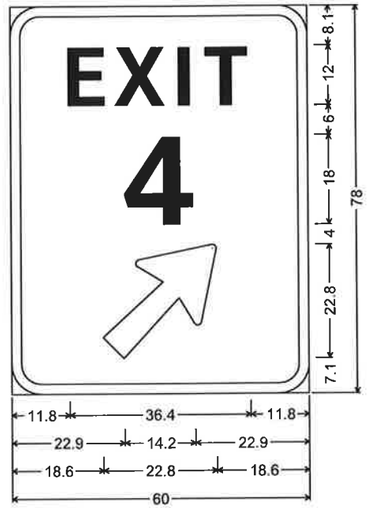
EXIT2-70B-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



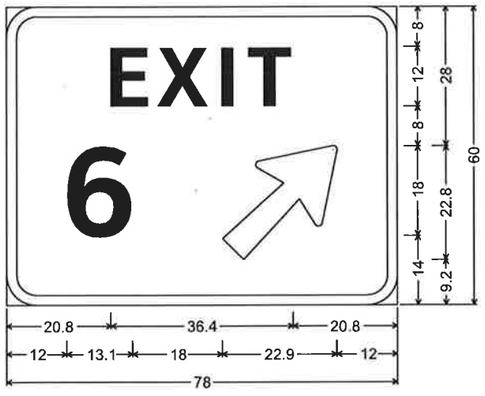
EXIT2-70B-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



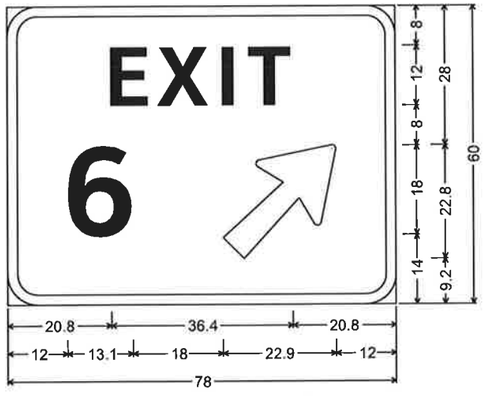
EXIT3-70B-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"3", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



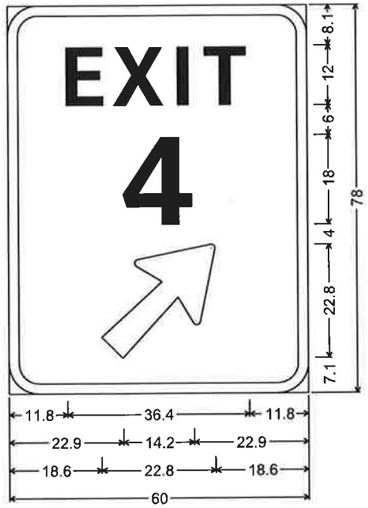
EXIT4-70B-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"4", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



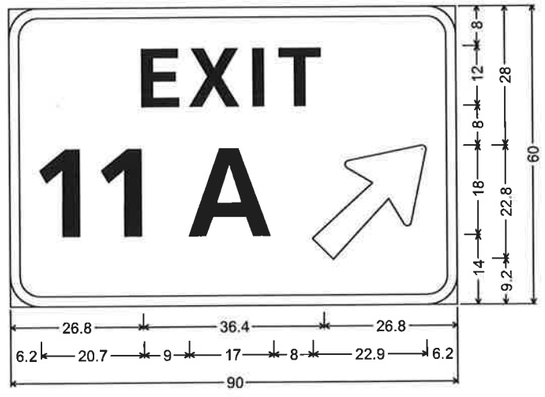
EXIT6-70B-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"6", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



EXIT6-70B-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"6", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



EXIT4-70B-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"4", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



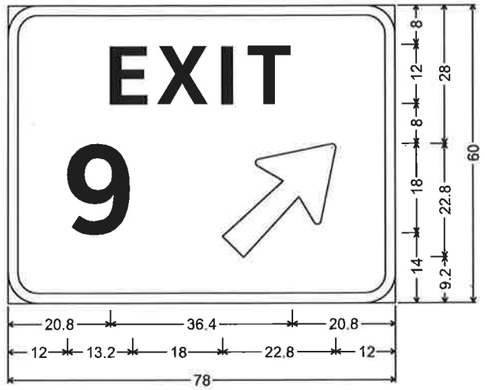
EXIT11A-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R;
"A", ClearviewHwy-5-W-R; Arrow Custom - 29.0" 45';

STATE OF ARKANSAS
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No. 7527
JOSEPH A. SARTINI
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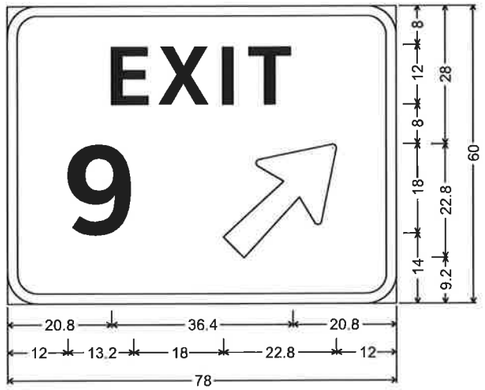
SIGN LAYOUT SHEET

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	57	83

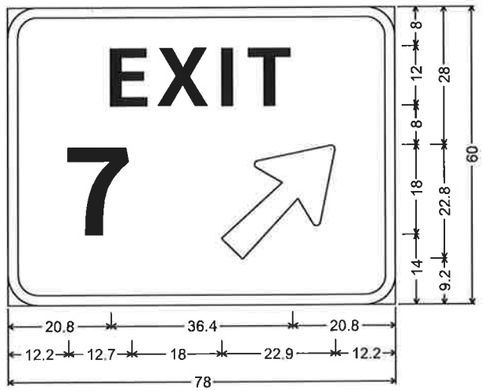
② SIGN LAYOUT SHEET



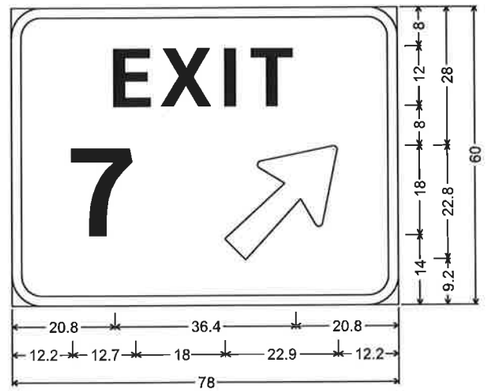
EXIT9-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"9", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



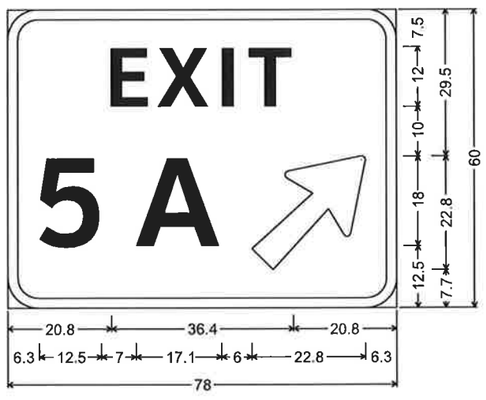
EXIT9-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"9", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



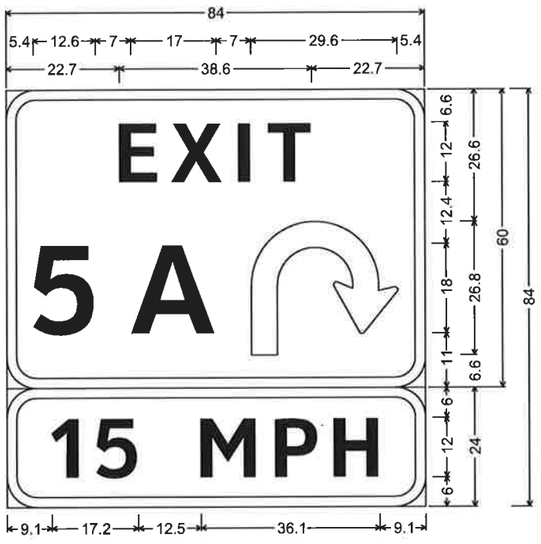
EXIT7-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



EXIT7-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



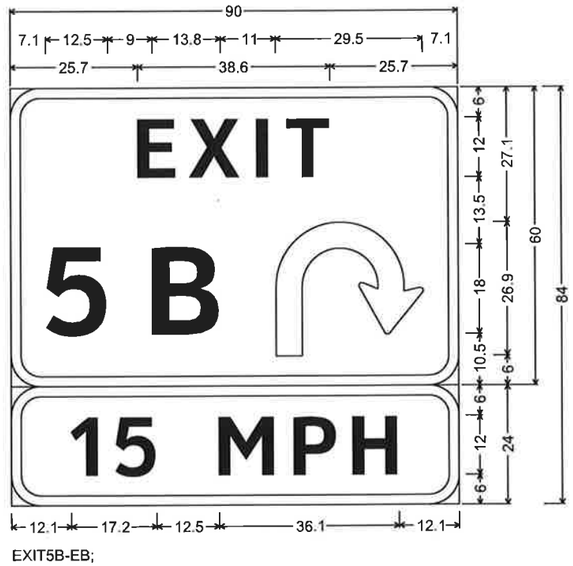
EXIT5A-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"5", ClearviewHwy-5-W-R;
"A", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



EXIT5A-WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "5", ClearviewHwy-5-W-R;
"A", ClearviewHwy-5-W-R; Turn Arrow Custom;

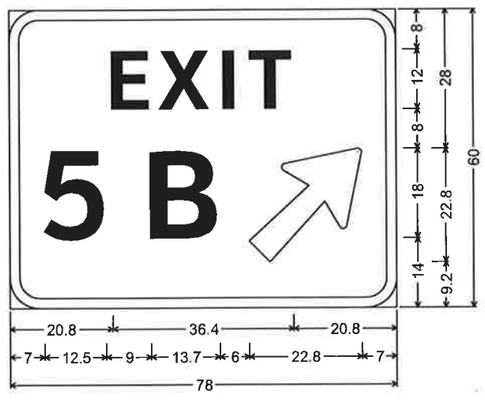
6.0" Radius, 2.0" Border, Black on, Yellow;
"15 MPH", ClearviewHwy-5-W-R;



EXIT5B-EB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W; "5", ClearviewHwy-5-W-R;
"B", ClearviewHwy-5-W-R; Turn Arrow Custom;

6.0" Radius, 2.0" Border, Black on, Yellow;
"15 MPH", ClearviewHwy-5-W-R;



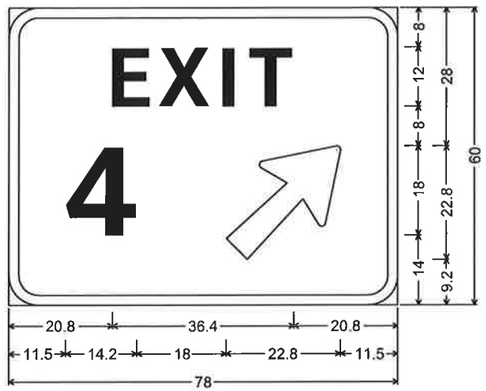
EXIT5B-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"5", ClearviewHwy-5-W-R;
"B", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';

STATE OF ARKANSAS
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No. 7527
JOSEPH A. SARTINI
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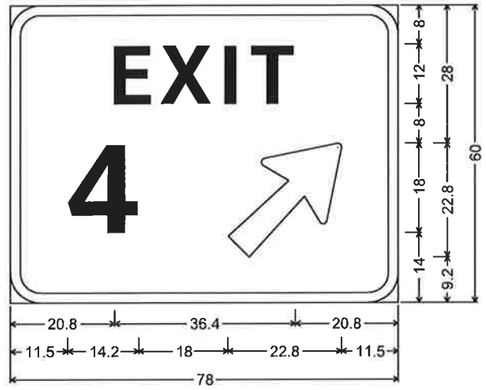
SIGN LAYOUT SHEET

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				6	ARK.			
				JOB NO.		061709	58	83

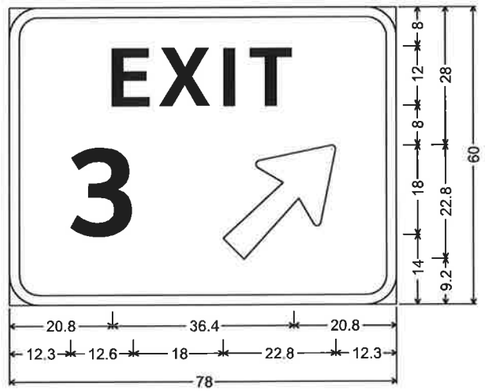
② SIGN LAYOUT SHEET



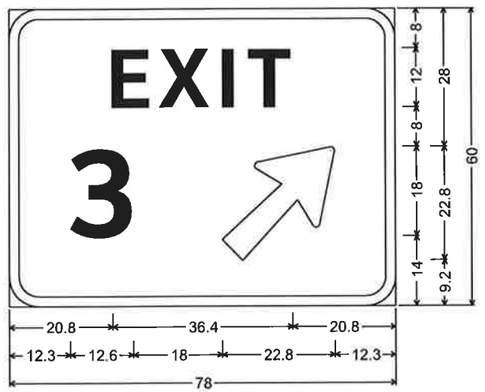
EXIT4-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"4", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



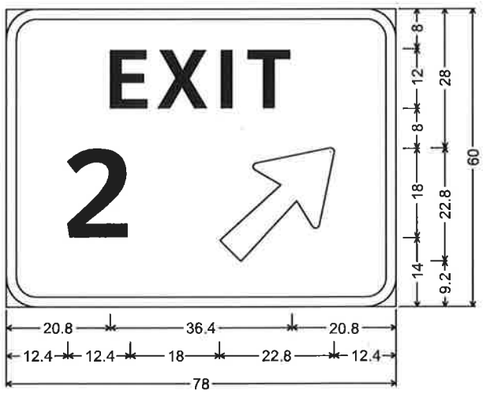
EXIT4-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"4", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



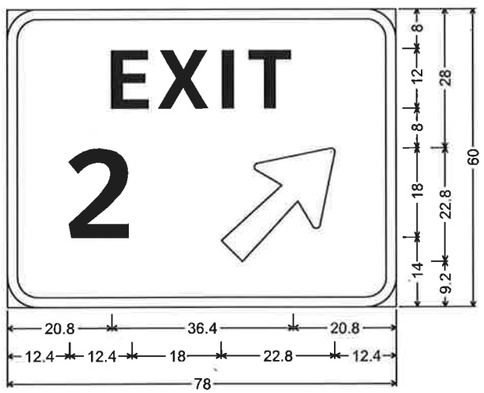
EXIT3-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"3", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



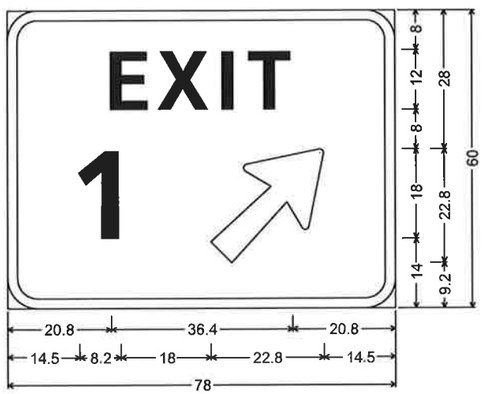
EXIT3-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"3", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



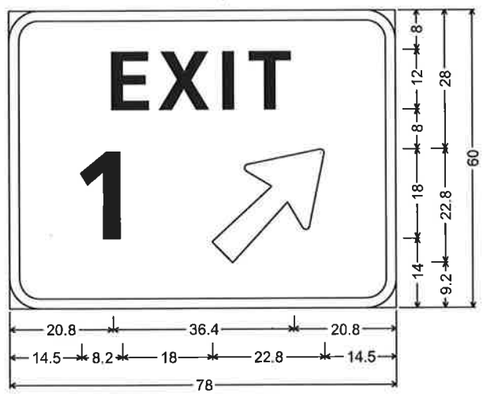
EXIT2-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



EXIT2-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



EXIT1-WB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"1", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';



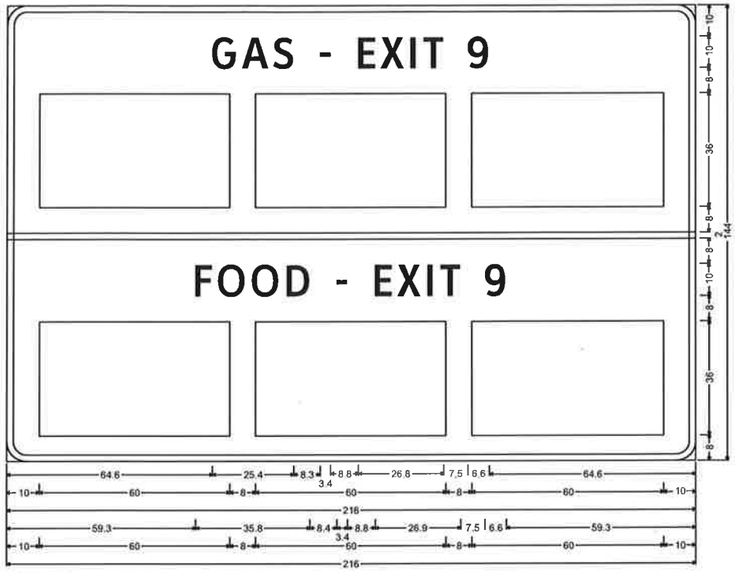
EXIT1-EB ;
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"1", ClearviewHwy-5-W-R;
Arrow Custom - 29.0" 45';

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
JOSEPH A. SARTIN
No. 7527
Apr 6 2021 1 PM
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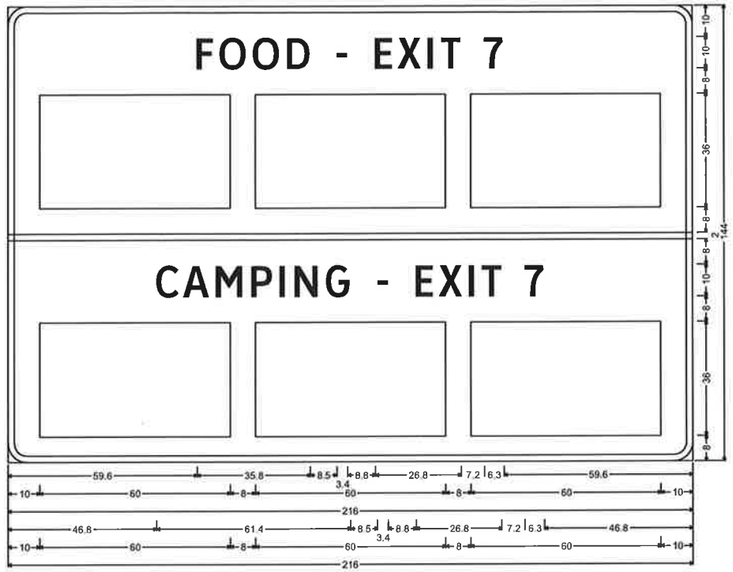
SIGN LAYOUT SHEET

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	59	83

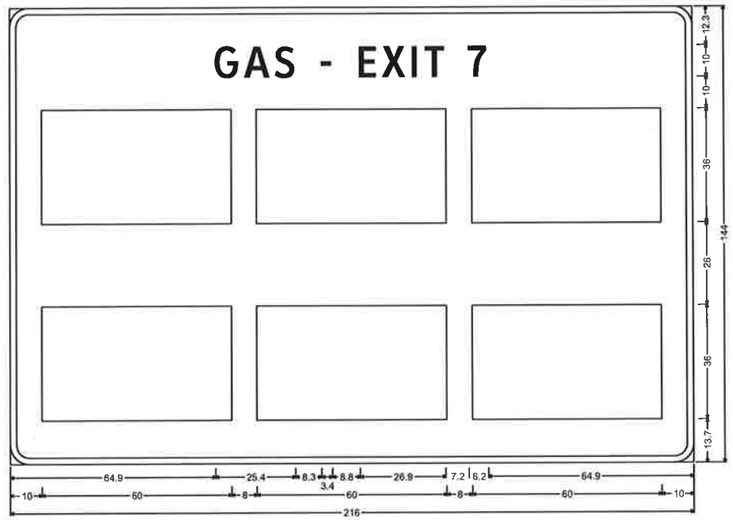
② SIGN LAYOUT SHEET



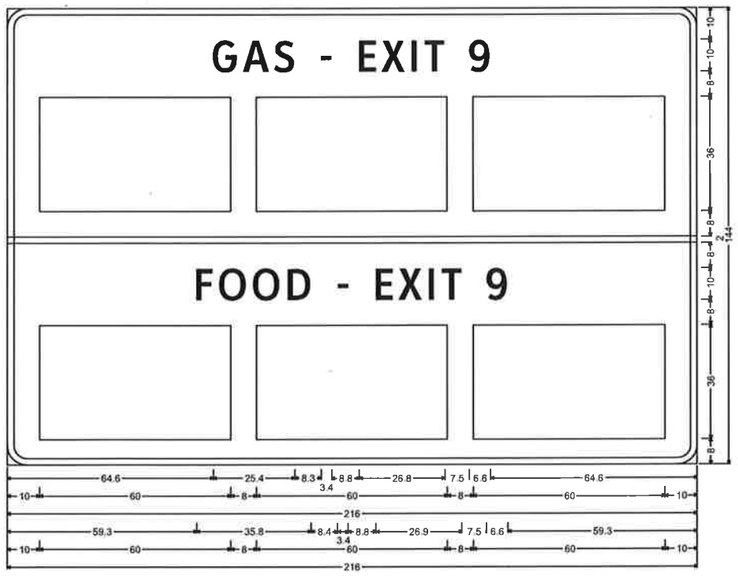
LGF270-9WB;
6.0" Radius, 2.0" Border, White on, Blue;
"GAS - EXIT 9", ClearviewHwy-3-W; "FOOD - EXIT 9", ClearviewHwy-3-W;



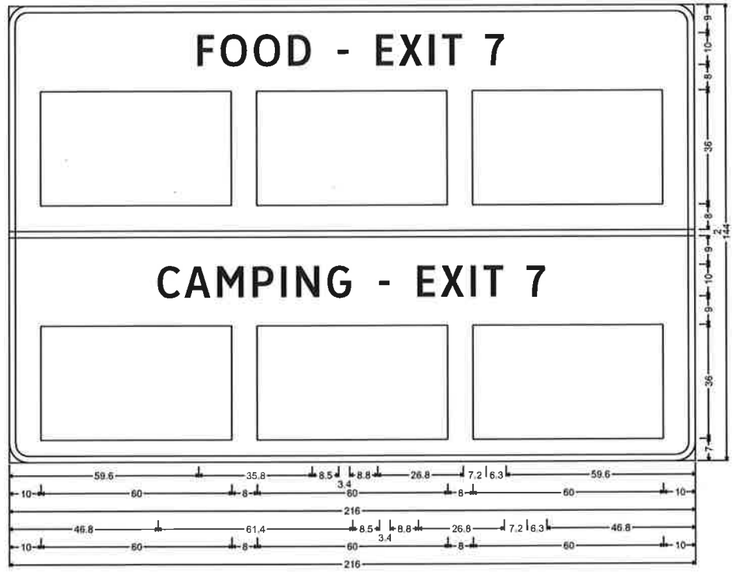
LFC270-7WB;
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"FOOD - EXIT 7", ClearviewHwy-3-W; "CAMPING - EXIT 7", ClearviewHwy-3-W;



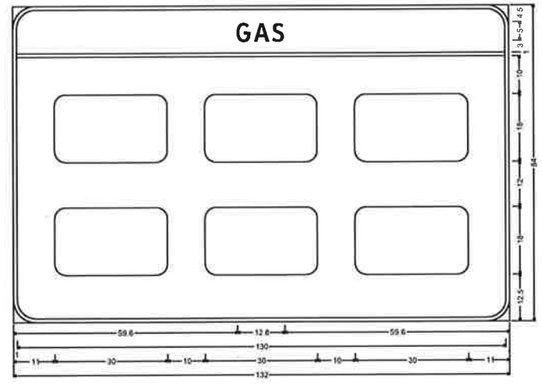
LG270-7EB ;
6.0" Radius, 2.0" Border, White on, Blue;
"GAS - EXIT 7", ClearviewHwy-3-W;



LGF270-9EB;
6.0" Radius, 2.0" Border, White on, Blue;
"GAS - EXIT 9", ClearviewHwy-3-W; "FOOD - EXIT 9", ClearviewHwy-3-W;



LFC270-7EB;
6.0" Radius, 2.0" Border, White on, Blue;
"FOOD - EXIT 7", ClearviewHwy-3-W; "CAMPING - EXIT 7", ClearviewHwy-3-W;



6.0" Radius, 1.0" Border, White on, Blue;
"GAS", ClearviewHwy-3-W; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius;

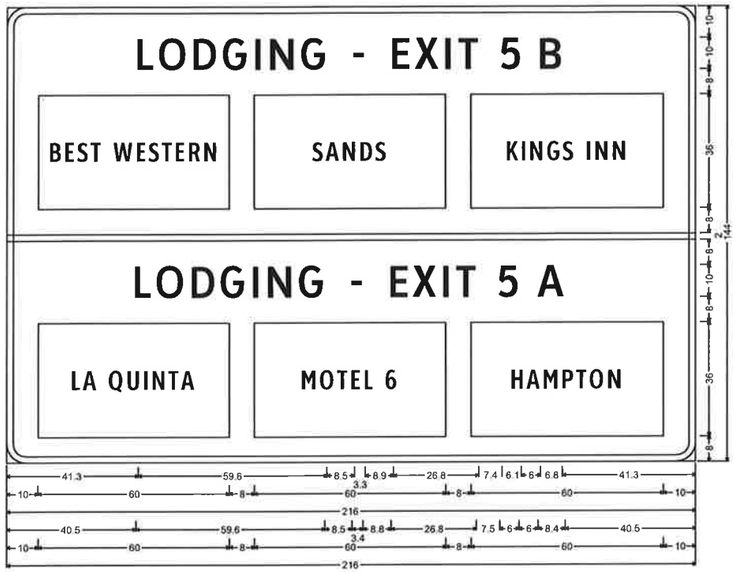
SS270-RAMP7-2WB
SS270-RAMP7-1EB

STATE OF ARKANSAS
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SIGN LAYOUT SHEET

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. NO PROJ. NO.	SHEET NO.	TOTAL SHEETS
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				JOB NO.		061709	60	83

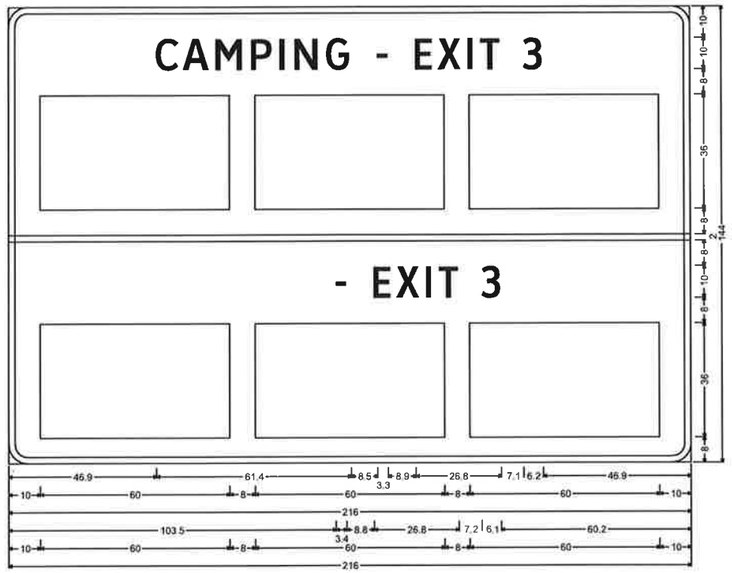
② SIGN LAYOUT SHEET



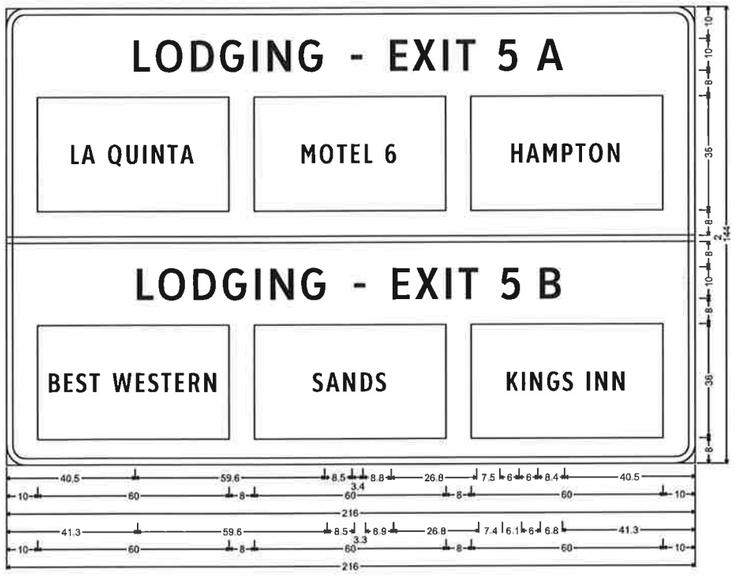
LLL270-5WB;
6.0" Radius, 2.0" Border, While on, Blue;
"LODGING - EXIT 5", ClearviewHwy-3-W; "B", ClearviewHwy-3-W;
"LODGING - EXIT 5", ClearviewHwy-3-W; "A", ClearviewHwy-3-W;



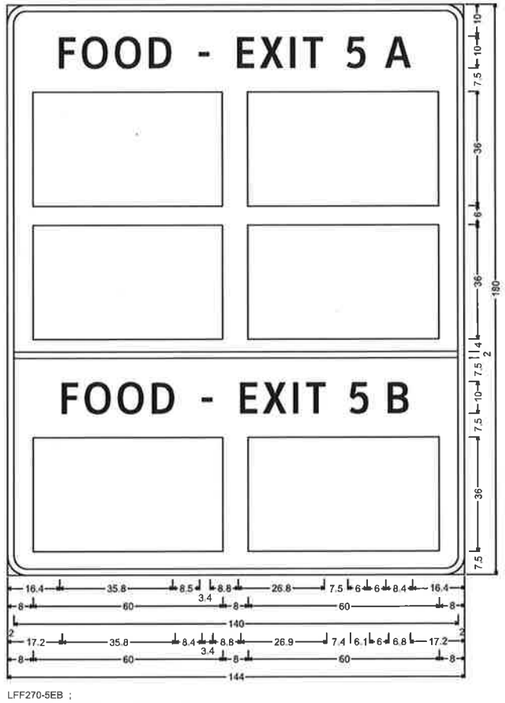
LGG270-5EB;
6.0" Radius, 2.0" Border, While on, Blue;
"GAS - EXIT 5", ClearviewHwy-3-W; "A", ClearviewHwy-3-W; "GAS - EXIT 5", ClearviewHwy-3-W; "B", ClearviewHwy-3-W;



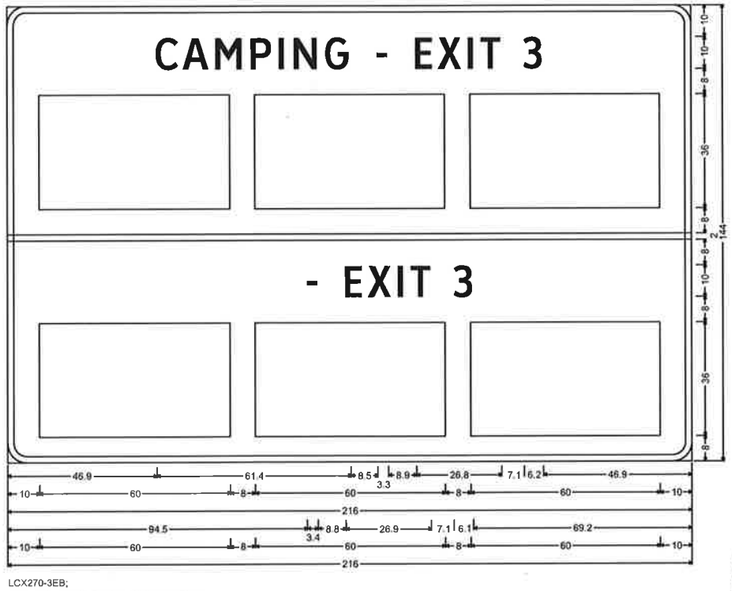
LCX270-3WB;
6.0" Radius, 2.0" Border, White on, Blue;
"CAMPING - EXIT 3", ClearviewHwy-3-W; " - EXIT 3", ClearviewHwy-3-W;



LLL270-5EB;
6.0" Radius, 2.0" Border, White on, Blue;
"LODGING - EXIT 5", ClearviewHwy-3-W; "A", ClearviewHwy-3-W;
"LODGING - EXIT 5", ClearviewHwy-3-W; "B", ClearviewHwy-3-W;



LFF270-5EB ;
6.0" Radius, 2.0" Border, White on, Blue;
"FOOD - EXIT 5", ClearviewHwy-3-W; "A", ClearviewHwy-3-W;
"FOOD - EXIT 5", ClearviewHwy-3-W; "B", ClearviewHwy-3-W;



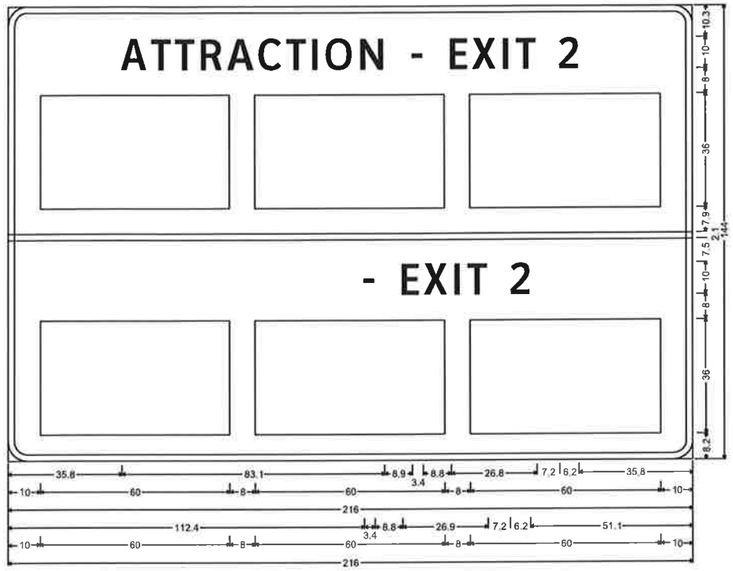
LCX270-3EB;
6.0" Radius, 2.0" Border, White on, Blue;
"CAMPING - EXIT 3", ClearviewHwy-3-W; " - EXIT 3", ClearviewHwy-3-W;

STATE OF ARKANSAS
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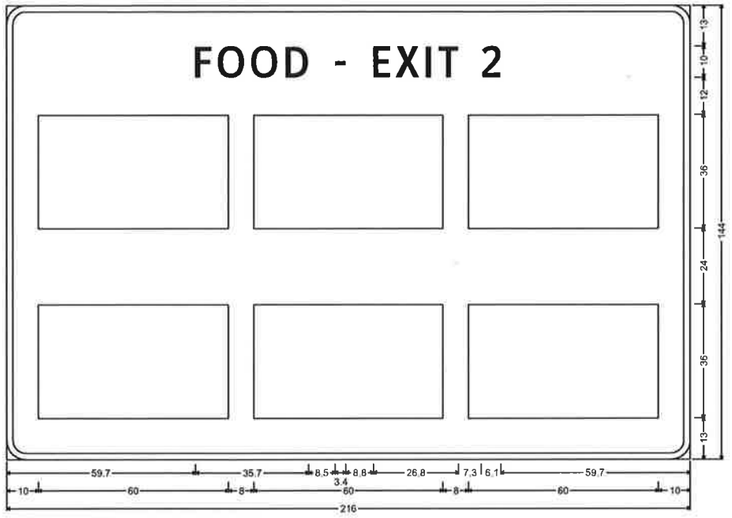
SIGN LAYOUT SHEET

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				6	ARK.			
				JOB NO.		061709	61	83

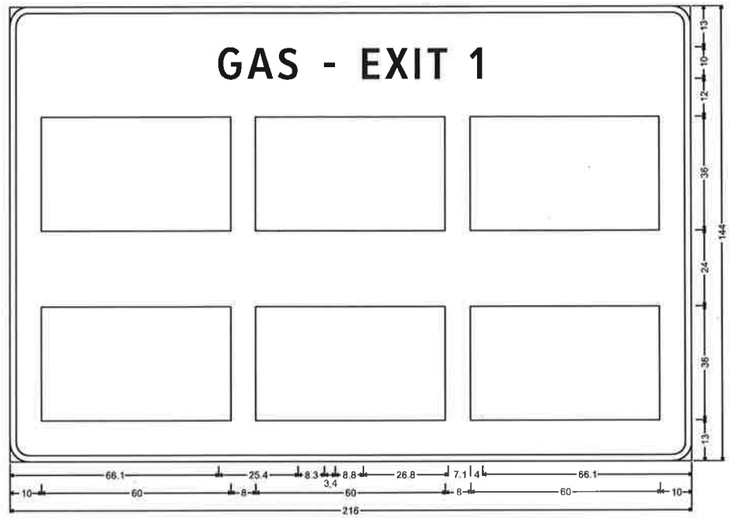
② SIGN LAYOUT SHEET



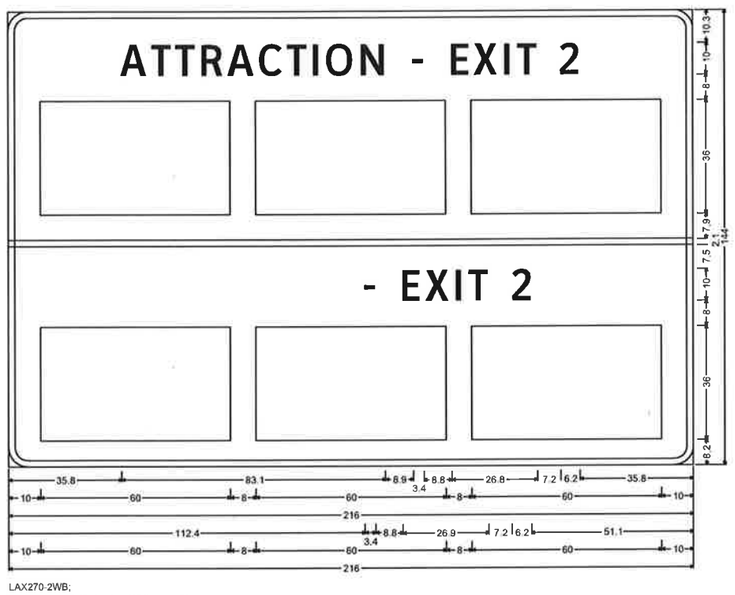
LAX270-2EB;
6.0" Radius, 2.0" Border, White on, Blue;
"ATTRACTION - EXIT 2", ClearviewHwy-3-W; " - EXIT 2", ClearviewHwy-3-W;



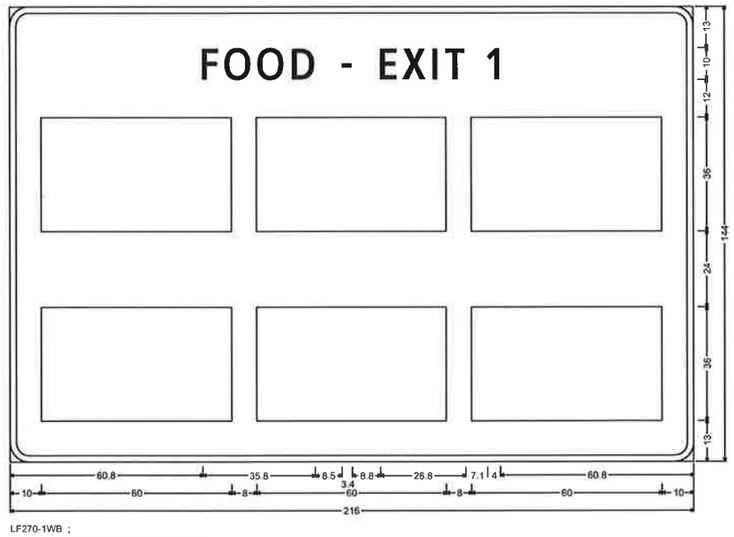
LF270-2EB ;
6.0" Radius, 2.0" Border, White on, Blue;
"FOOD - EXIT 2", ClearviewHwy-3-W;



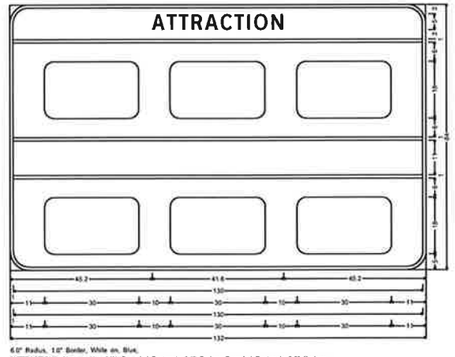
LG270-1WB ;
6.0" Radius, 2.0" Border, White on, Blue;
"GAS - EXIT 1", ClearviewHwy-3-W;



LAX270-2WB;
6.0" Radius, 2.0" Border, White on, Blue;
"ATTRACTION - EXIT 2", ClearviewHwy-3-W; " - EXIT 2", ClearviewHwy-3-W;



LF270-1WB ;
6.0" Radius, 2.0" Border, White on, Blue;
"FOOD - EXIT 1", ClearviewHwy-3-W;



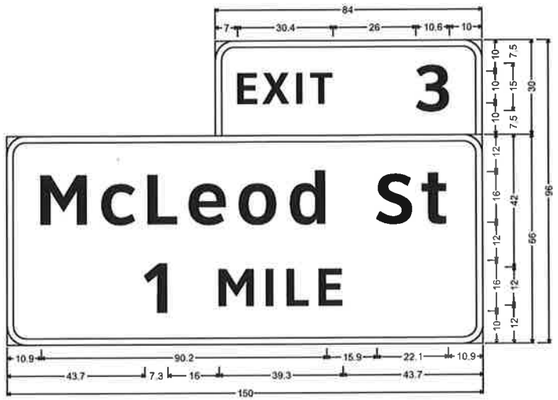
6.0" Radius, 1.0" Border, White on, Blue;
"ATTRACTION", Clearviewhwy-3-W; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius;
Rounded Rectangle 3.0" Radius, " ", Clearviewhwy-3-W; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius;
Rounded Rectangle 3.0" Radius;

SS270-RAMP2-2WB
SS270-RAMP2-2EB

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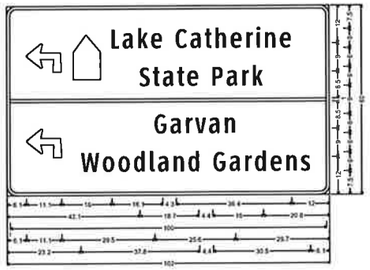
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				6	ARK.			
				JOB NO.		061709	62	83
				②	SIGN LAYOUT SHEET			



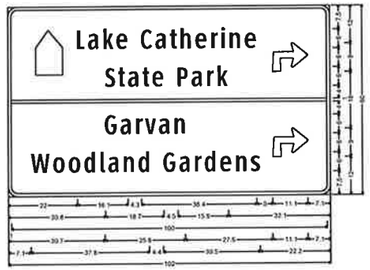
ML270-3-1EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;

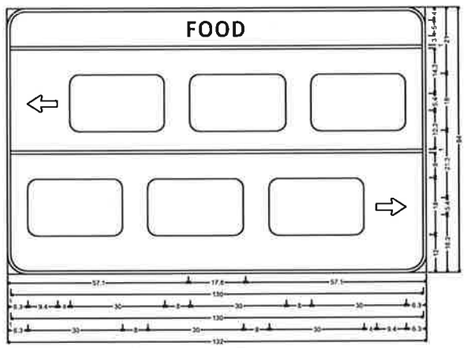
6.0" Radius, 2.0" Border, White on, Green;
"McLeod St", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



SS270-RAMP7-3WB;
3.0" Radius, 1.0" Border, White on, Brown;
90 Deg Advance Turn Arrow 16.0" X 13.0", "Lake Catherine", ClearviewHwy-2-W;
"State Park", ClearviewHwy-2-W; 90 Deg Advance Turn Arrow 19.0" X 13.0";
"Garvan", ClearviewHwy-2-W; "Woodland Gardens", ClearviewHwy-2-W;

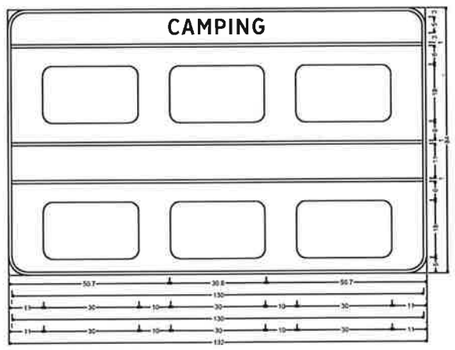


SS270-RAMP7-3EB;
3.0" Radius, 1.0" Border, White on, Brown;
"Lake Catherine", ClearviewHwy-2-W; "State Park", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0"; "Garvan", ClearviewHwy-2-W;
"Woodland Gardens", ClearviewHwy-2-W; 90 Deg Advance Turn Arrow 19.0" X 13.0";



6.0" Radius, 1.0" Border, White on, Blue;
"FOOD", ClearviewHwy-3-W; Standard Arrow Custom 8.4" X 8.4" 180; Rounded Rectangle 3.0" Radius,
Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius;
Rounded Rectangle 3.0" Radius, Rounded Rectangle 3.0" Radius; Standard Arrow Custom 8.4" X 8.4" 0 ;

SS270- RAMP2- 1EB



6.0" Radius, 1.0" Border, White on, Blue;
"CAMPING", ClearviewHwy-3-W; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius;
Rounded Rectangle 3.0" Radius; " "; ClearviewHwy-3-W; Rounded Rectangle 3.0" Radius; Rounded Rectangle 3.0" Radius;
Rounded Rectangle 3.0" Radius,

SS270- RAMP3- 2EB



ML270-1-1EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;

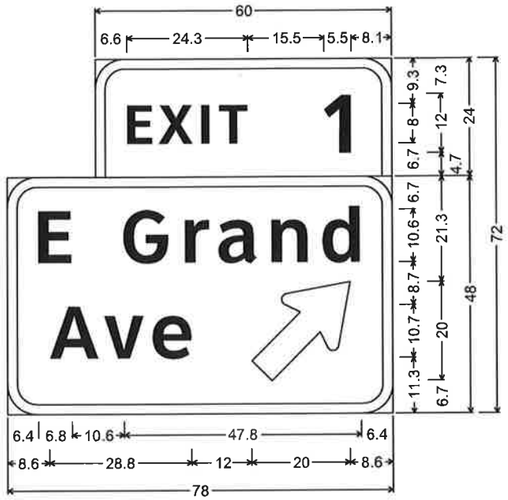
6.0" Radius, 2.0" Border, White on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R;
"Little Rock", ClearviewHwy-5-W-R; Arrow Custom - 35.6" 45° White;

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				6	ARK.			
				JOB NO.		061709	63	83

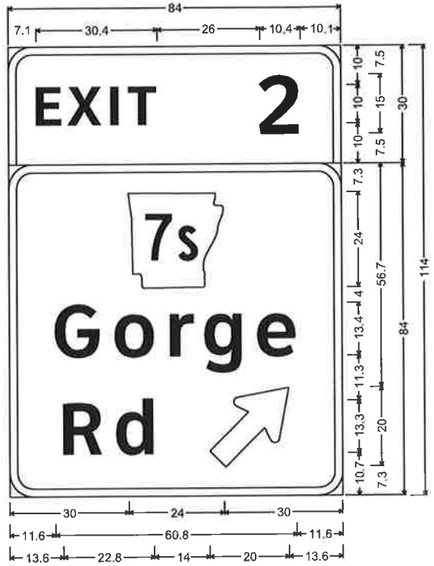
② SIGN LAYOUT SHEET



ML70B-1-2EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"1", ClearviewHwy-5-W-R;

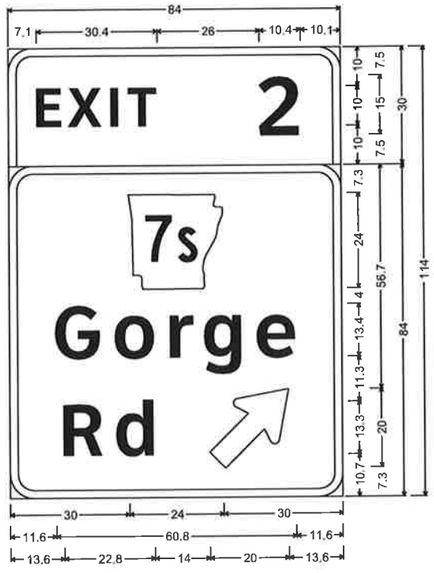
6.0" Radius, 2.0" Border, White on, Green;
"E Grand", ClearviewHwy-5-W-R;
"Ave", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45' White;



ML70B-2-2WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;

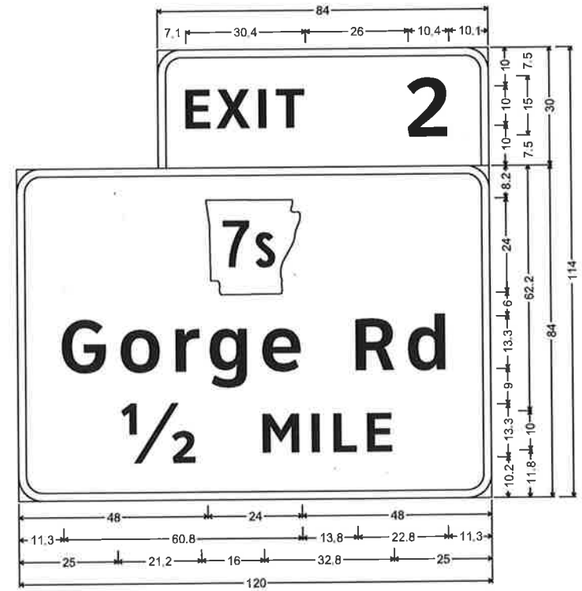
6.0" Radius, 2.0" Border, White on, Green;
"Gorge", ClearviewHwy-5-W-R;
"Rd", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45' White;



ML70B-2-3EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;

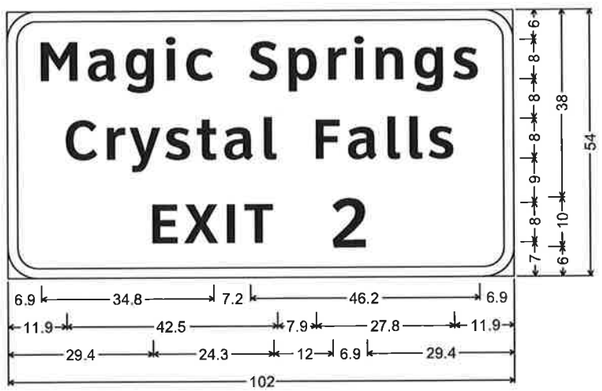
6.0" Radius, 2.0" Border, White on, Green;
"Gorge", ClearviewHwy-5-W-R;
"Rd", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45' White;



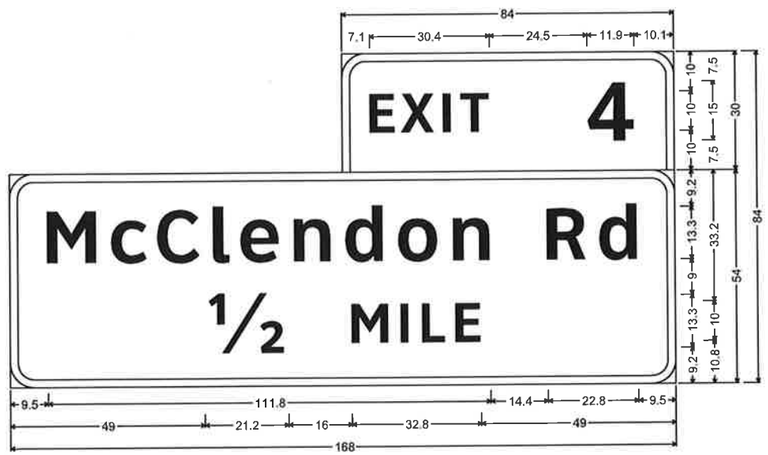
ML70B-2-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "2", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Gorge Rd", ClearviewHwy-5-W-R; "½", ClearviewHwy-5-W-R;
"MILE", ClearviewHwy-5-W-R;



ML70B-2-2EB;
6.0" Radius, 2.0" Border, White on, Brown;
"Magic Springs", ClearviewHwy-5-W-R;
"Crystal Falls", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"2", ClearviewHwy-5-W-R;



ML70B-4-1EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"McClendon Rd", ClearviewHwy-5-W-R; "½", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



ML70B-4-2EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

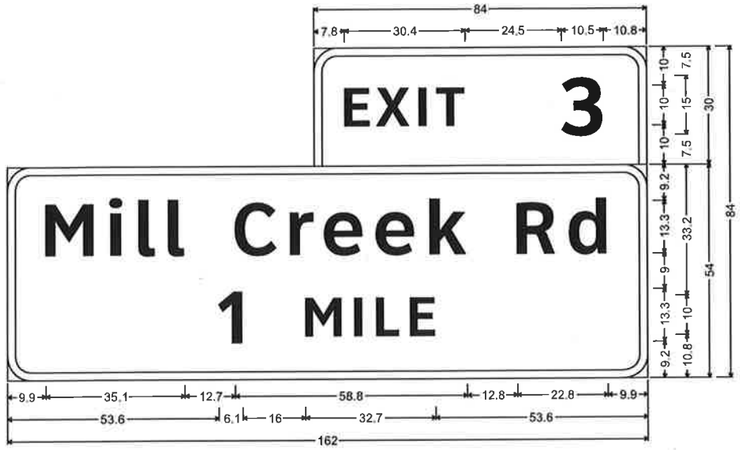
6.0" Radius, 2.0" Border, White on, Green;
"McClendon", ClearviewHwy-5-W-R; "Rd", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45' White;

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SIGN LAYOUT SHEET

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				6	ARK.			
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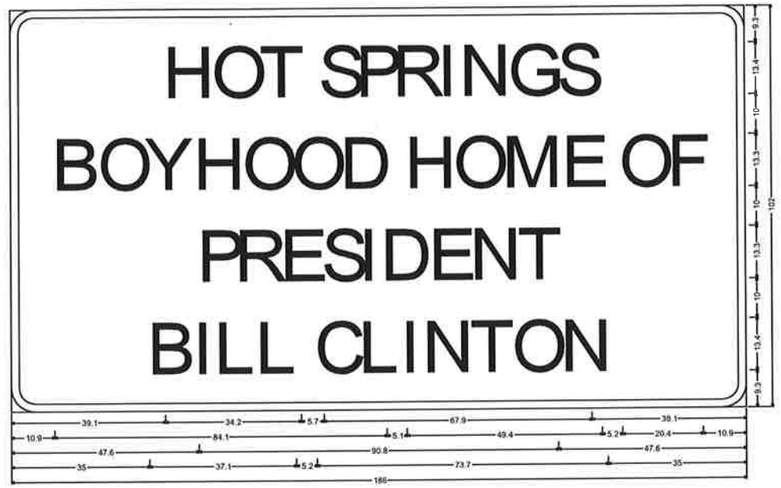
② SIGN LAYOUT SHEET



ML70B-3-1WB ;

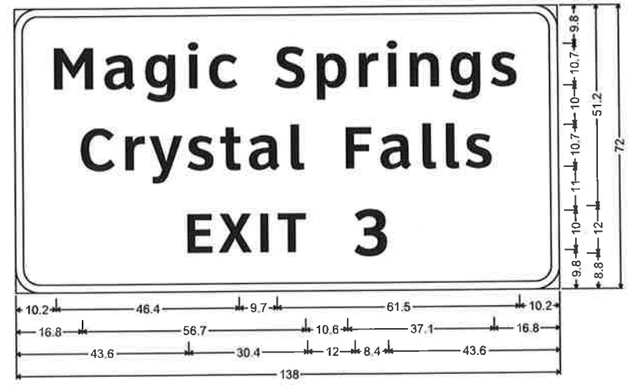
6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Mill Creek Rd", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

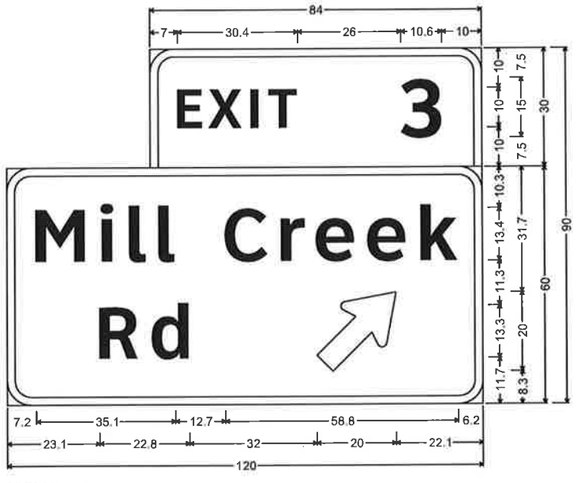


6.0" Radius, 2.0" Border, White on, Brown;
"HOT SPRINGS", Roman; "BOYHOOD HOME OF", Roman; "PRESIDENT", Roman; "BILL CLINTON", Roman;

ML70B-3-2WB



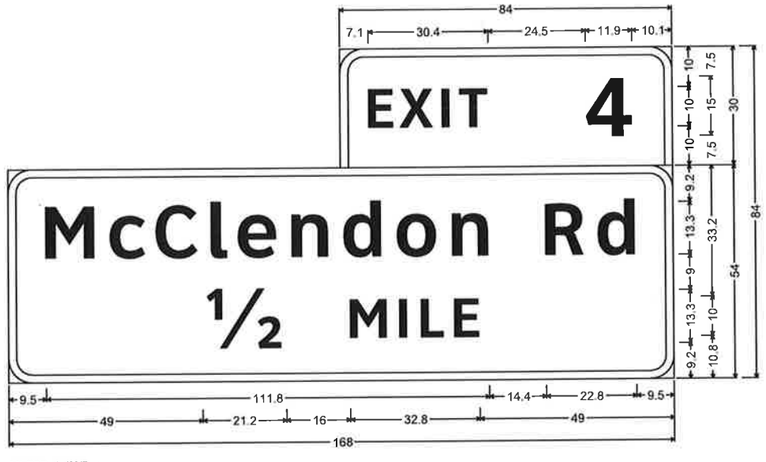
ML70B-3-3WB;
6.0" Radius, 2.0" Border, White on, Brown;
"Magic Springs", ClearviewHwy-5-W-R; "Crystal Falls", ClearviewHwy-5-W-R;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;



ML70B-3-4WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Mill Creek", ClearviewHwy-5-W-R; "Rd", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45' White;



ML70B-4-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"McClendon Rd", ClearviewHwy-5-W-R; "1/2", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



ML70B-4-2WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

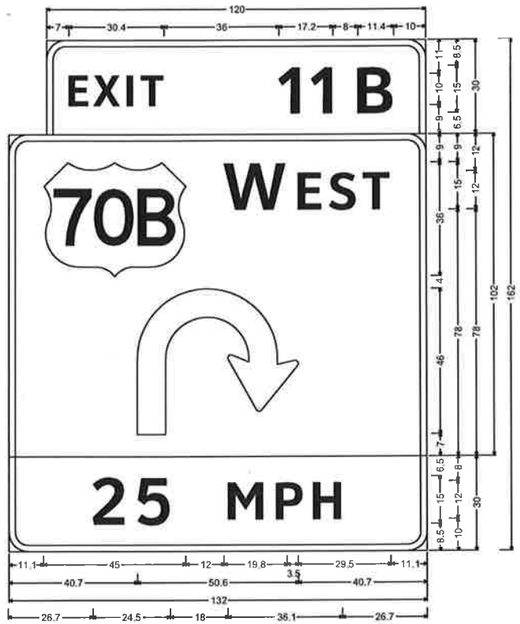
6.0" Radius, 2.0" Border, White on, Green;
"McClendon", ClearviewHwy-5-W-R; "Rd", ClearviewHwy-5-W-R;
Arrow Custom - 35.8" 45' White;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	65	83

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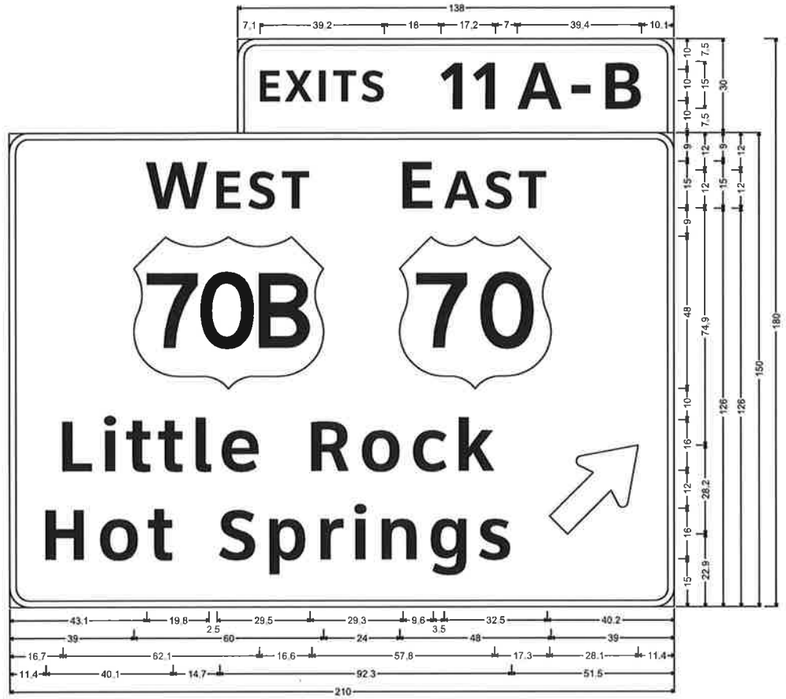


EXIT 11B-EB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; Turn Arrow Custom;

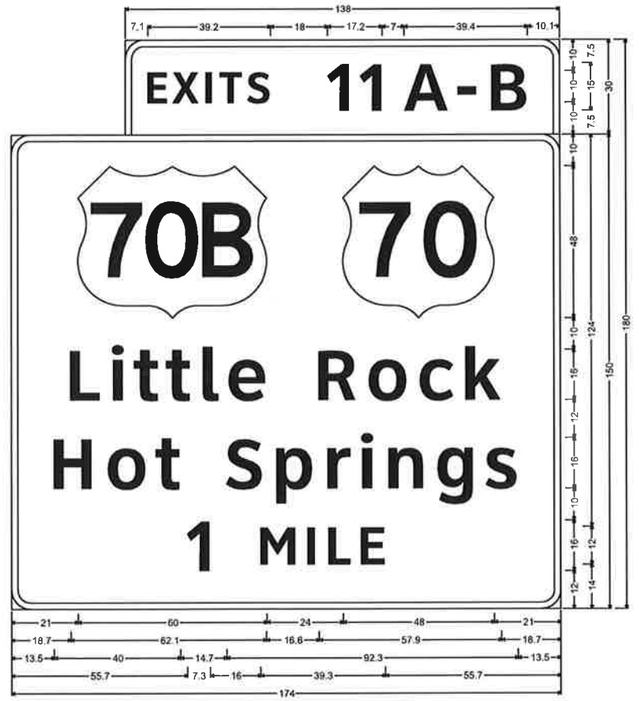
6.0" Radius, 2.0" Border, Black on, Yellow;
"25", ClearviewHwy-5-W-R; "MPH", ClearviewHwy-5-W-R;



ML70-11-5EB ;

6.0" Radius, 2.0" Border, While on, Green;
"EXITS", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R; "A-B", ClearviewHwy-5-W-R;

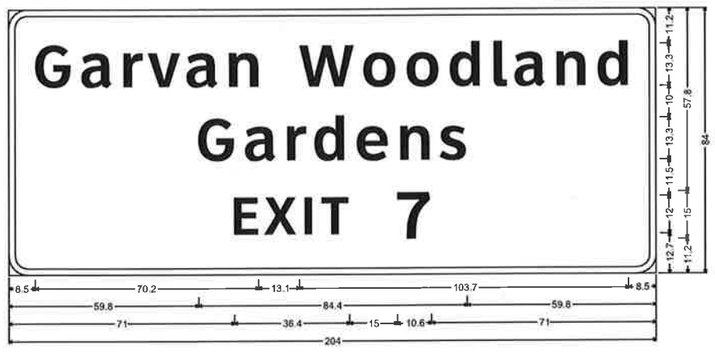
6.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; "E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R;
"Little Rock", ClearviewHwy-5-W-R; "Hot Springs", ClearviewHwy-5-W-R; Standard Arrow Custom 0.0" X 21.6" 45";



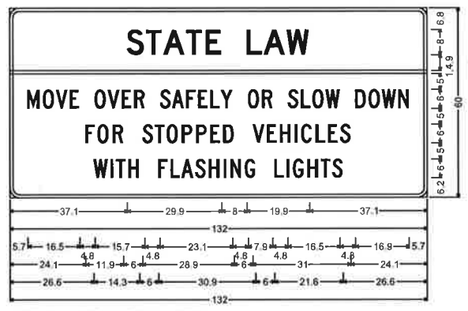
ML70-11-1EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXITS", ClearviewHwy-5-W-R; "11", ClearviewHwy-5-W-R; "A-B", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Little Rock", ClearviewHwy-5-W-R; "Hot Springs", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R;
"MILE", ClearviewHwy-5-W-R;

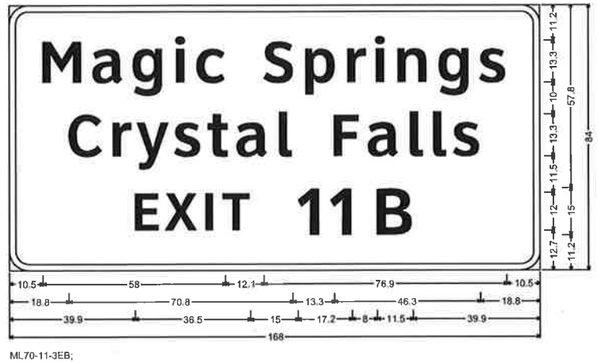


ML270-7-2EB;
6.0" Radius, 2.0" Border, White on, Brown;
"Garvan Woodland", ClearviewHwy-5-W-R; "Gardens", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;



3.0" Radius, 1.0" Border, Black on, White;
"STATE LAW", D 2K;
"MOVE OVER SAFELY OR SLOW DOWN", C 2K 80% spacing;
"FOR STOPPED VEHICLES", C 2K; "WITH FLASHING LIGHTS", C 2K;

ML270-2-3EB
ML70-9-1WB



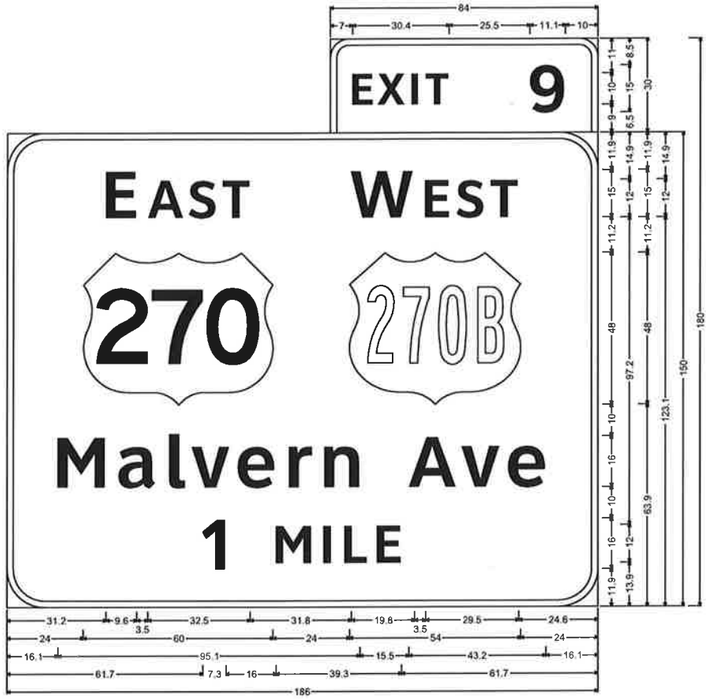
ML70-11-3EB;
6.0" Radius, 2.0" Border, White on, Brown;
"Magic Springs", ClearviewHwy-5-W-R; "Crystal Falls", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"11", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;

STATE OF ARKANSAS
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				6	ARK.			
				JOB NO.		061709	66	83

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ML270-9-2WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "9", ClearviewHwy-5-W-R;

12.0" Radius, 2.0" Border, White on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; us270b;
"Malvern Ave", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



ML270-9-3WB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "9", ClearviewHwy-5-W-R;

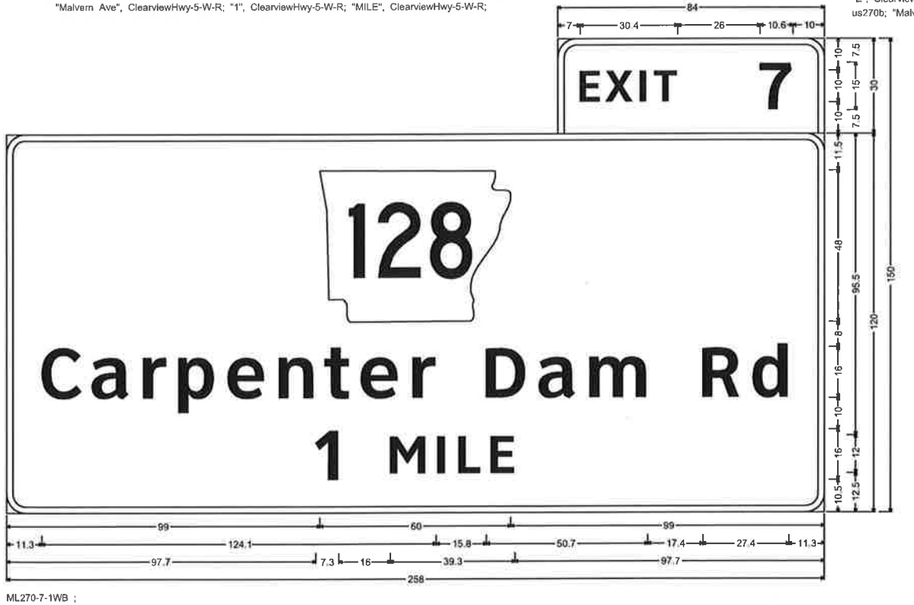
12.0" Radius, 2.0" Border, White on, Green;
"E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R; "W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R;
us270b; "Malvern", ClearviewHwy-5-W-R; "Ave", ClearviewHwy-5-W-R; Arrow Custom - 35.8° 45';



ML270-9-2EB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "9", ClearviewHwy-5-W-R;

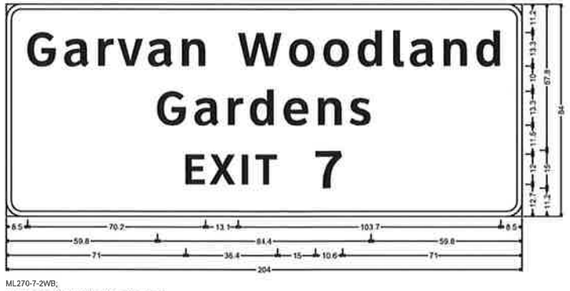
12.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; us270b; "E", ClearviewHwy-5-W-R;
"AST", ClearviewHwy-5-W-R; "Malvern", ClearviewHwy-5-W-R; "Ave", ClearviewHwy-5-W-R;
Arrow Custom - 35.8° 45';



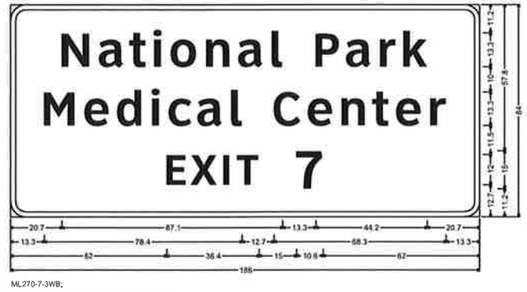
ML270-7-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Carpenter Dam Rd", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



ML270-7-2WB;
6.0" Radius, 2.0" Border, White on, Brown;
"Garvan Woodland", ClearviewHwy-5-W-R; "Gardens", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;



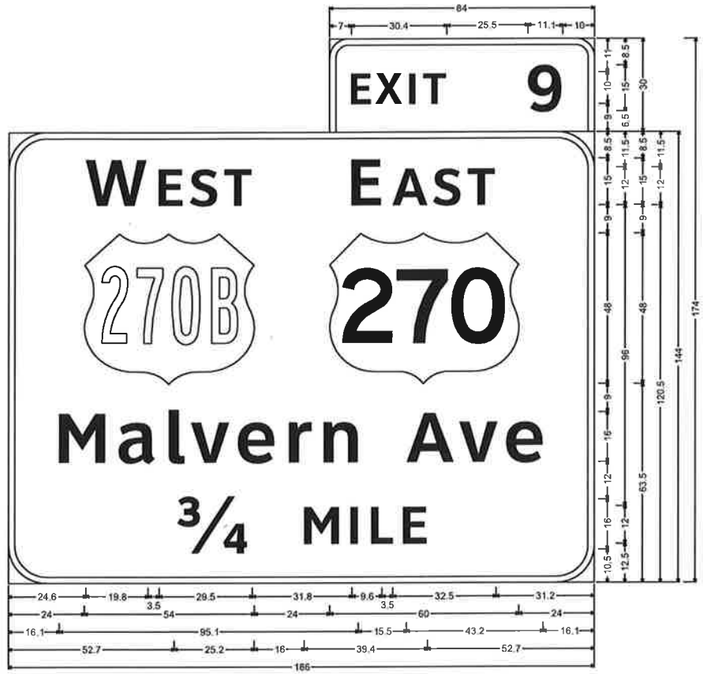
ML270-7-3WB;
6.0" Radius, 2.0" Border, White on, Green;
"National Park", ClearviewHwy-5-W-R; "Medical Center", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
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				6	ARK.			
				JOB NO.		061709	67	83

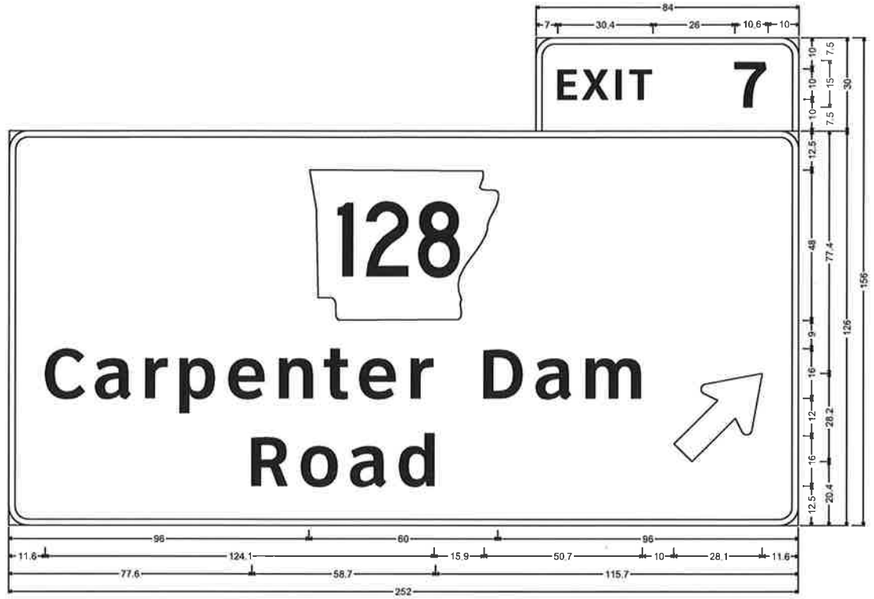
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ML270-9-1EB;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "9", ClearviewHwy-5-W-R;

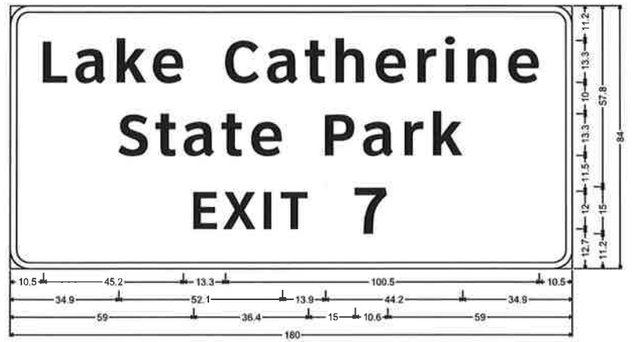
12.0" Radius, 2.0" Border, White on, Green;
"W", ClearviewHwy-5-W-R; "EST", ClearviewHwy-5-W-R; us270b; "E", ClearviewHwy-5-W-R; "AST", ClearviewHwy-5-W-R;
"Malvern Ave", ClearviewHwy-5-W-R; "3/4", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



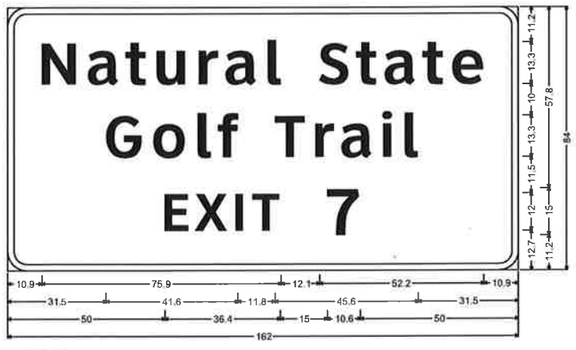
ML270-7-7WB ;

6.0" Radius, 2.0" Border, While on, Green;
"EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;

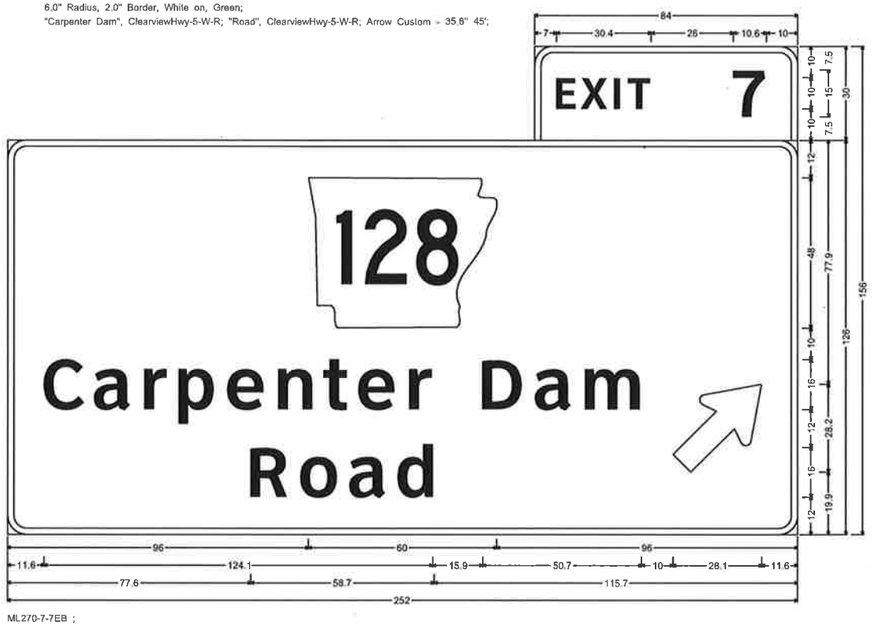
6.0" Radius, 2.0" Border, While on, Green;
"Carpenter Dam", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R; Arrow Custom = 35.8° 45';



ML270-7-5WB;
6.0" Radius, 2.0" Border, White on, Brown;
"Lake Catherine", ClearviewHwy-5-W-R; "State Park", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;



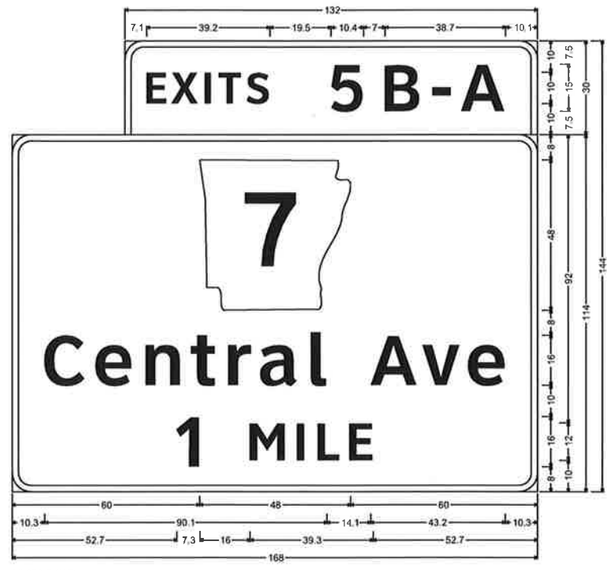
ML270-7-6WB;
6.0" Radius, 2.0" Border, White on, Green;
"Natural State", ClearviewHwy-5-W-R; "Golf Trail", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;



ML270-7-7EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Carpenter Dam", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R; Arrow Custom = 35.8° 45';



ML270-5-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXITS", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "B-A", ClearviewHwy-5-W-R;

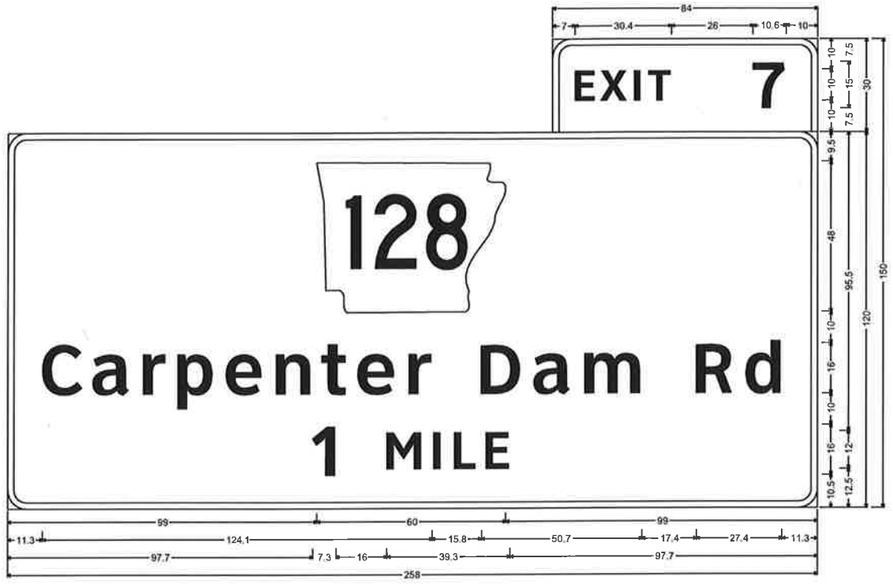
6.0" Radius, 2.0" Border, White on, Green;
"Central Ave", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7627
JOSEPH A. SARTINI
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				6	ARK.			
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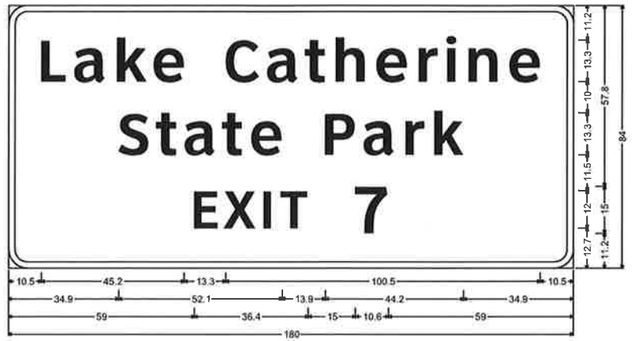
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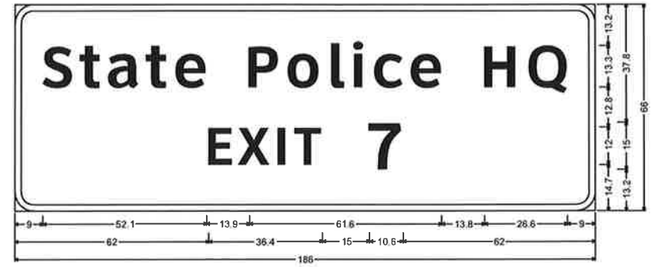
ML270-7-1EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;

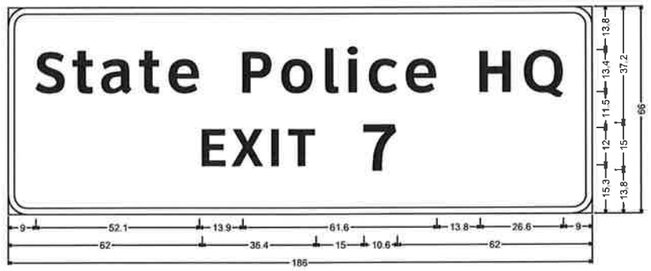
6.0" Radius, 2.0" Border, White on, Green;
"Carpenter Dam Rd", ClearviewHwy-5-W-R; "1", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



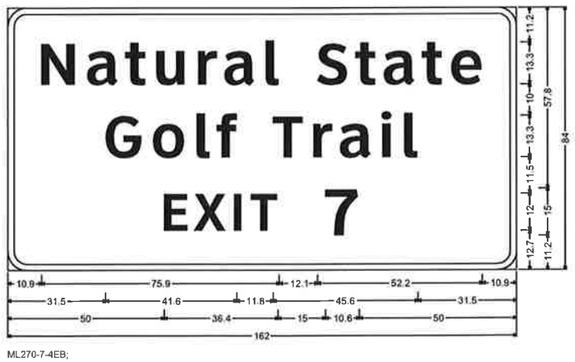
ML270-7-6EB;
6.0" Radius, 2.0" Border, White on, Brown;
"Lake Catherine", ClearviewHwy-5-W-R; "State Park", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;



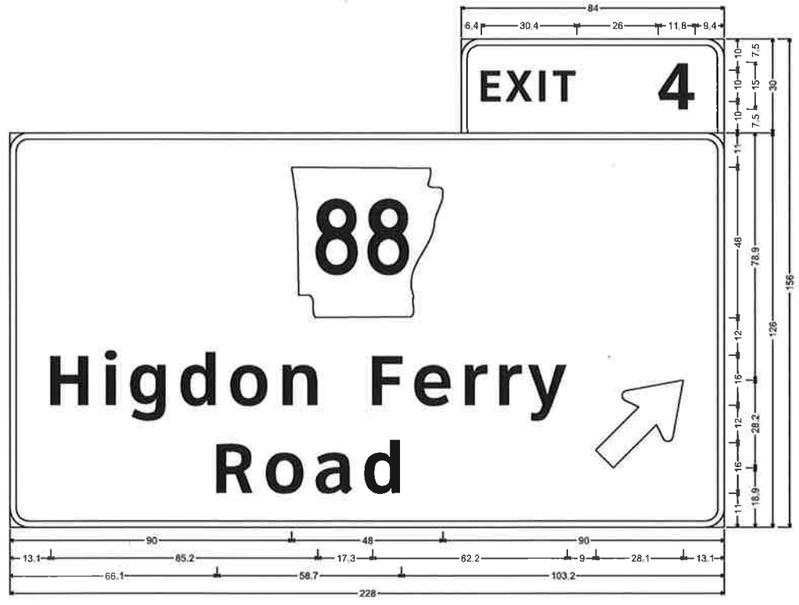
ML270-7-5EB;
6.0" Radius, 2.0" Border, White on, Blue;
"State Police HQ", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;



ML270-7-4WB;
6.0" Radius, 2.0" Border, White on, Blue;
"State Police HQ", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R; "7", ClearviewHwy-5-W-R;



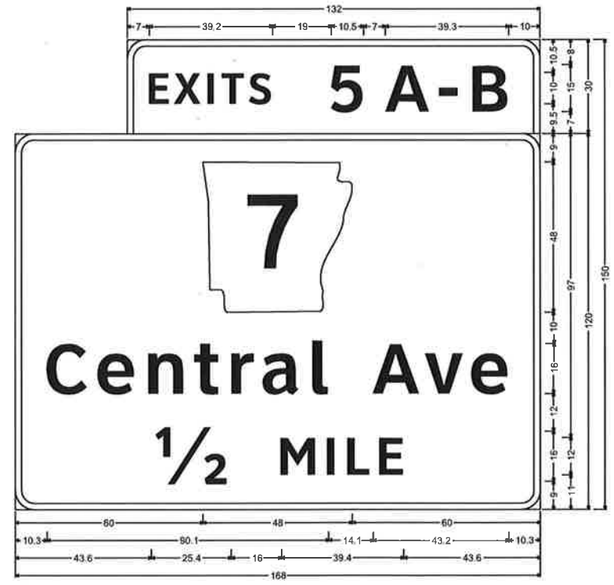
ML270-7-4EB;
6.0" Radius, 2.0" Border, White on, Green;
"Natural State", ClearviewHwy-5-W-R; "Golf Trail", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;



ML270-4-3EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"Higdon Ferry", ClearviewHwy-5-W-R; "Road", ClearviewHwy-5-W-R; Standard Arrow Custom 0.0" X 21.6" 45';



ML270-5-2EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXITS", ClearviewHwy-5-W-R; "5", ClearviewHwy-5-W-R; "A-B", ClearviewHwy-5-W-R;

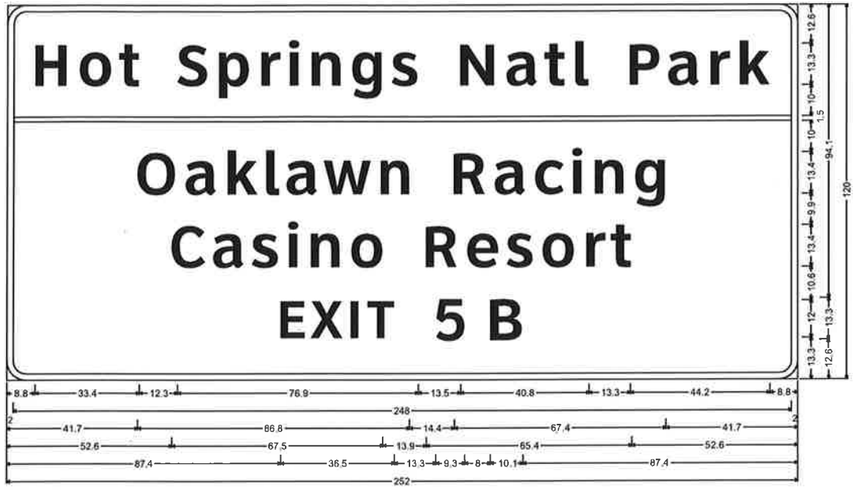
6.0" Radius, 2.0" Border, White on, Green;
"Central Ave", ClearviewHwy-5-W-R; "½", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Apr 9 2021 11:54 AM
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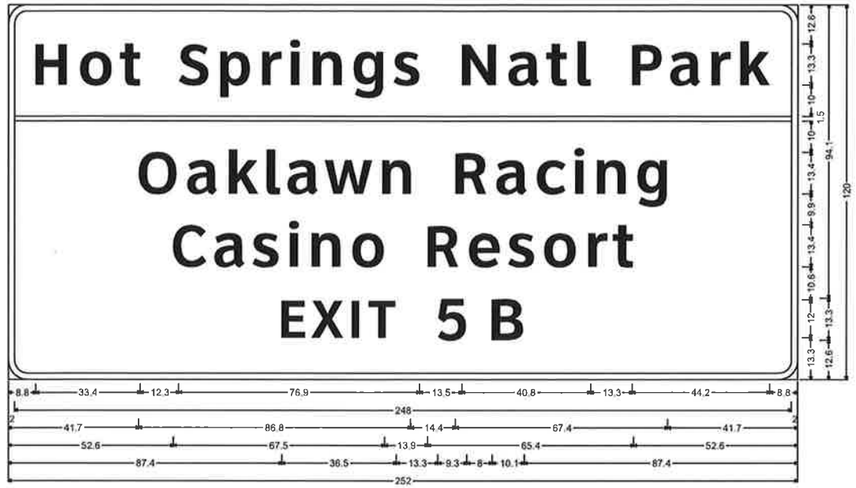
SIGN LAYOUT SHEET

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	69	83

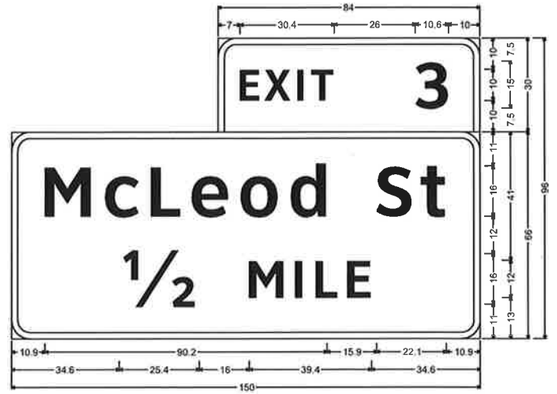
SIGN LAYOUT SHEET



ML270-5-2WB;
6.0" Radius, 2.0" Border, White on, Brown;
"Hot Springs Natl Park", ClearviewHwy-5-W-R; "Oaklawn Racing", ClearviewHwy-5-W-R; "Casino Resort", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"5", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;



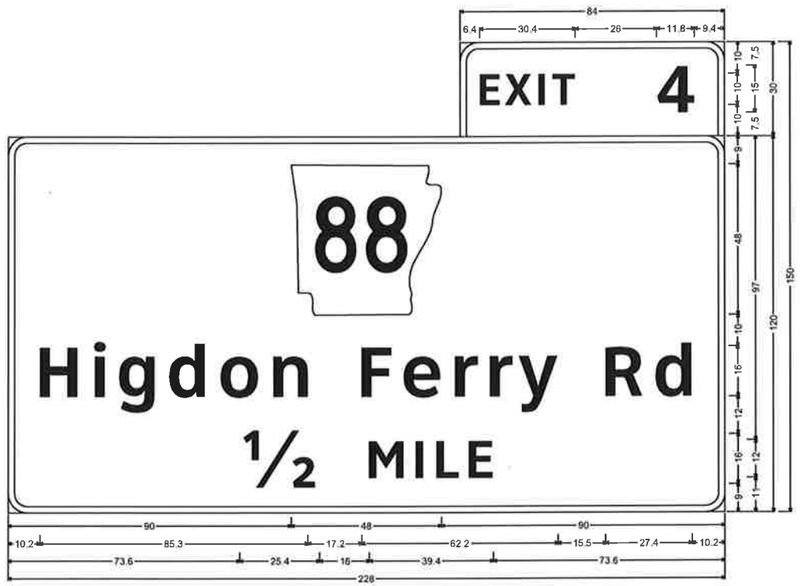
ML270-5-1EB;
6.0" Radius, 2.0" Border, While on, Brown;
"Hot Springs Natl Park", ClearviewHwy-5-W-R; "Oaklawn Racing", ClearviewHwy-5-W-R; "Casino Resort", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"5", ClearviewHwy-5-W-R; "B", ClearviewHwy-5-W-R;



ML270-3-1WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;

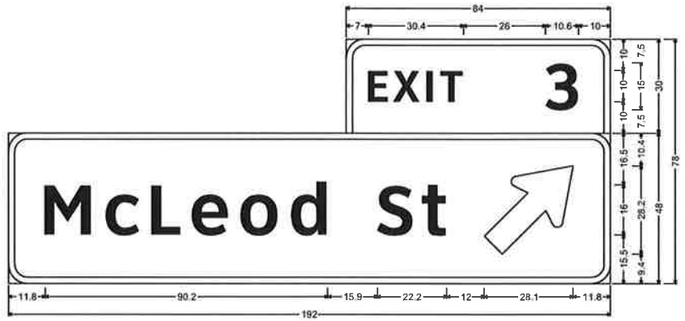
6.0" Radius, 2.0" Border, White on, Green;
"McLeod St", ClearviewHwy-5-W-R; "1/2", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



ML270-4-1EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "4", ClearviewHwy-5-W-R;

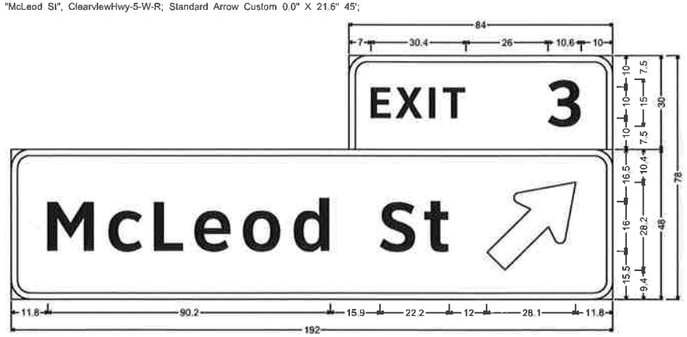
6.0" Radius, 2.0" Border, White on, Green;
"Higdon Ferry Rd", ClearviewHwy-5-W-R; "1/2", ClearviewHwy-5-W-R; "MILE", ClearviewHwy-5-W-R;



ML270-3-2WB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;

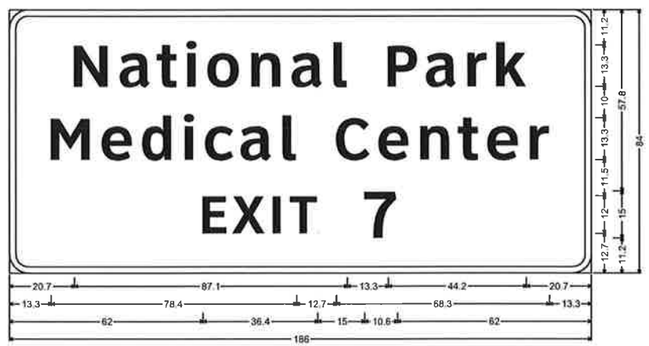
6.0" Radius, 2.0" Border, White on, Green;
"McLeod St", ClearviewHwy-5-W-R; Standard Arrow Custom 0.0" X 21.6" 45';



ML270-3-2EB ;

6.0" Radius, 2.0" Border, White on, Green;
"EXIT", ClearviewHwy-5-W-R; "3", ClearviewHwy-5-W-R;

6.0" Radius, 2.0" Border, White on, Green;
"McLeod St", ClearviewHwy-5-W-R; Standard Arrow Custom 0.0" X 21.6" 45';



ML270-7-3EB;
6.0" Radius, 2.0" Border, White on, Green;
"National Park", ClearviewHwy-5-W-R; "Medical Center", ClearviewHwy-5-W-R; "EXIT", ClearviewHwy-5-W-R;
"7", ClearviewHwy-5-W-R;

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
DocuSign

SIGN LAYOUT SHEET

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	70	83

② SIGN LAYOUT SHEET



SS70B-1.75EB
SS70B-2.06WB
SS70B-3.42EB
SS70B-3.72WB
SS70B-5.40WB
SS270-22.28WB
SS270-18.21WB

W 8-13
48" X48"



SS70B-1.85WB
SS70B-2.25EB
SS70B-3.37WB
SS70B-3.76EB
SS70B-4.87WB
SS70-0.29EB
SS70-0.11WB
SS270-2.41EB
SS270-2.14WB
SS270-0.07EB
SS270-22.22EB
SS270-22.07WB
SS270-21.09EB
SS270-20.94WB
SS270-19.24EB
SS270-19.05WB

W 4-1
48" X48"



SS70B-3.46EB-A
SS70B-3.46EB-B

W 1-2L
48" X48"



SS70B-4.20WB-A
SS70B-4.20WB-B

W 1-2R
48" X48"



SS70B-2.32WB
SS70B-3.38EB
SS70B-RAMP5-1WB
SS270-RAMP1-1WB

W 13-2
48" X60"

SS270-RAMP4-1WB



W 13-2
48" X60"

SS70B-3.17WB

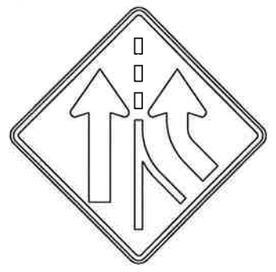


W 13-2
48" X60"



SS70B-5.26WB
SS270-3.38WB
SS270-3.03EB
SS270-1.69WB
SS270-0.63EB
SS270-21.45EB
SS270-20.32WB
SS270-19.62EB

R4-3
48" X60"



SS70-2.54WB
SS270-18.19EB

W 4-3R
48" X48"

M 3-2
30" X15"
M 1-4
45" X36"



SS70B-2.44EB
SS70B-3.90EB

M 3-4
30" X15"
M 1-4
45" X36"



SS70B-3.08WB

M 3-4
30" X15"
M 1-4
36" X36"



SS70-2.28WB

M 3-2
30" X15"
M 1-4
36" X36"



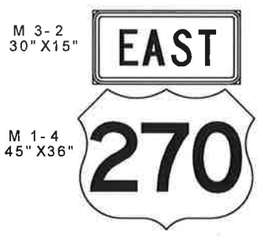
SS70-0.62EB

M 3-4
30" X15"
M 1-4
45" X36"



SS270-18.76WB

M 3-2
30" X15"
M 1-4
45" X36"



SS270-18.29EB



STANDARD SIGN ASSEMBLIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	71	83

② SIGN LAYOUT SHEET

SS270-18.59WB



R2-1
48"X60"

SS270-18.45WB



R2-1
48"X60"



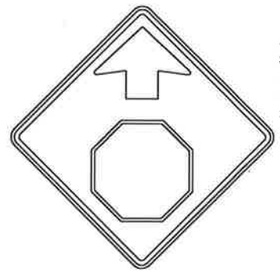
R2-1
48"X60"

SS70-0.70EB
SS270-3.69WB
SS270-2.75EB
SS270-1.78WB
SS270-0.53EB
SS270-21.68WB
SS270-21.33EB
SS270-20.54WB
SS270-18.33EB

SS270-18.72WB

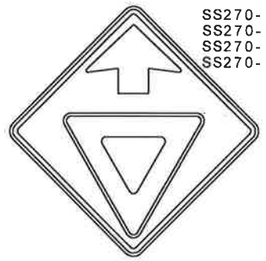


W 3-5
48"X48"



W 3-1
48"X48"

SS70B-RAMP5-2WBA
SS70B-RAMP5-2WBB
SS70B-RAMP2-1EB
SS70B-RAMP5-2EBA
SS70B-RAMP5-2EBB
SS270-RAMP3-1WB
SS270-RAMP2-3EB
SS270-RAMP3-1EB



W 3-2
48"X48"

SS270-RAMP5B-1WB
SS270-RAMP1-2WBA
SS270-RAMP1-2WBB
SS270-RAMP5A-1EB

M 3-4
30"X15"



M 3-4
30"X15"



SS270-3.80WB
SS270-1.89WB
SS270-22.49WB
SS270-20.64WB



M 1-4
45"X36"



M 1-4
36"X36"

M 3-2
30"X15"



M 3-2
30"X15"



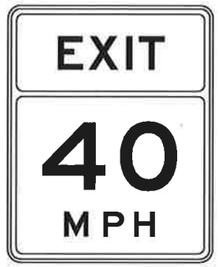
SS270-2.69EB
SS270-0.43EB
SS270-21.28EB
SS270-19.47EB



M 1-4
45"X36"

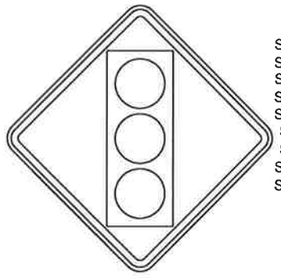


M 1-4
36"X36"



W 13-2
48"X60"

SS70B-RAMP5-1EB
SS270-RAMP9-1WB



W 3-3
48"X48"

SS270-RAMP9-2WBA
SS270-RAMP9-2WBB
SS270-RAMP7-1WBA
SS270-RAMP7-1WBB
SS270-RAMP5A-2WB
SS270-RAMP4-2WB
SS270-RAMP2-1WB
SS270-RAMP9-1EBA
SS270-RAMP9-1EBB

W 1-11L
48"X48"

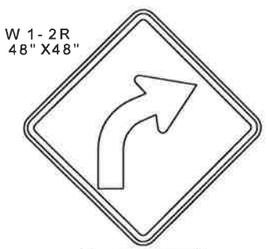


W 13-1
24"X24"



SS270-18.20WB

W 1-2R
48"X48"



W 13-1
24"X24"



SS70-0.14WB
SS270-21.60WB
SS270-20.82EB
SS270-19.94WB

W 1-2L
48"X48"

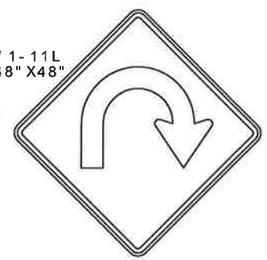


W 13-1
24"X24"



SS270-3.65EB
SS270-21.11EB
SS270-21.11WB
SS270-19.29EB

W 1-11L
48"X48"

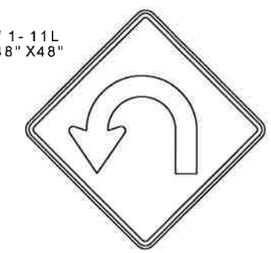


W 13-1
24"X24"



SS70B-4.95WB
SS270-RAMP-1EB

W 1-11L
48"X48"



W 13-1
24"X24"



SS270-RAMP5B-1EB

W 1-11L
48"X48"



W 13-1
24"X24"



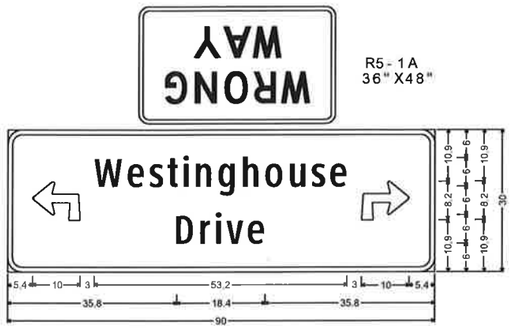
SS270-RAMP5A-1WB



STANDARD SIGN ASSEMBLIES

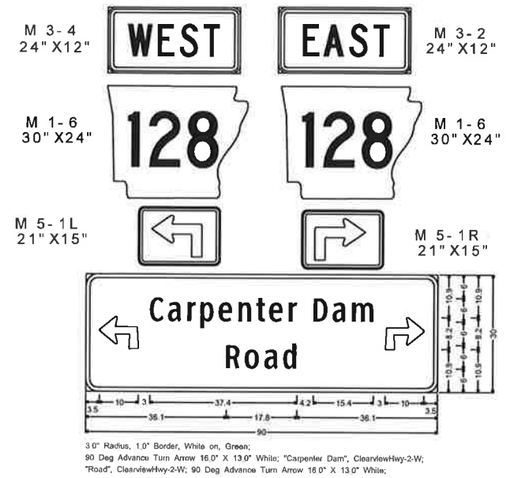
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	72	83

② SIGN LAYOUT SHEET



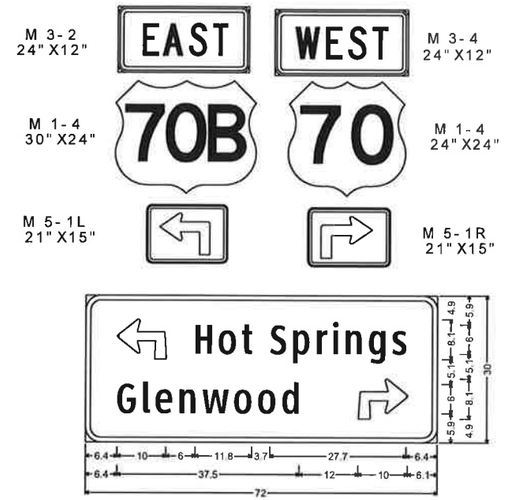
3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White; "Westinghouse", ClearviewHwy-2-W;
"Drive", ClearviewHwy-2-W; 90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS70B-RAMP5-3WB
SS70B-RAMP5-3EB



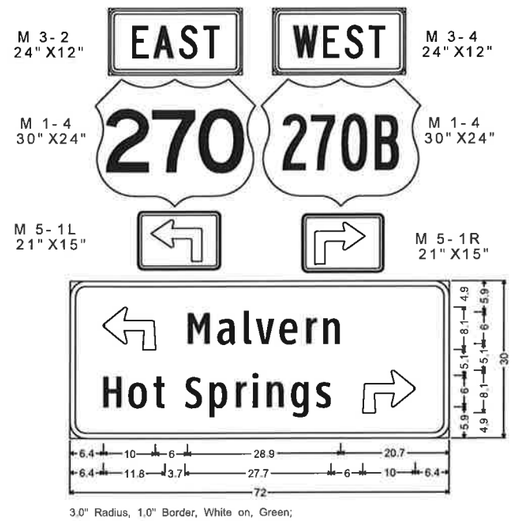
3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White; "Carpenter Dam", ClearviewHwy-2-W;
"Road", ClearviewHwy-2-W; 90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP7-4WB



3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;
"Hot Springs", ClearviewHwy-2-W; "Glenwood", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP2-4EB



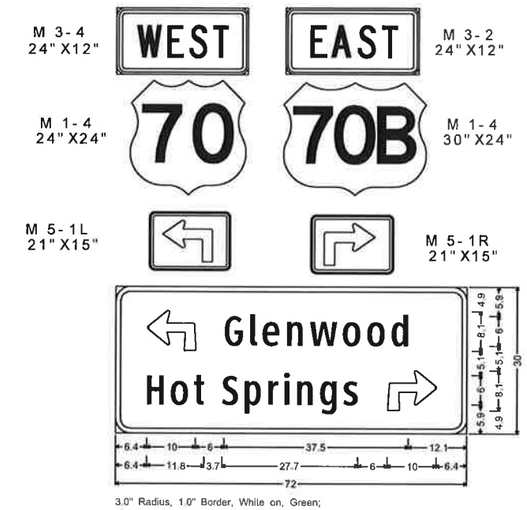
3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;
"Malvern", ClearviewHwy-2-W; "Hot Springs", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP9-3WB



SS270-RAMP5B-2WB;
3.0" Radius, 1.0" Border, White on, Brown;
"Hot Springs", ClearviewHwy-2-W; "National Park", ClearviewHwy-2-W;
60 Deg Advance Turn Arrow 16.0" X 13.0"; "Oaklawn Racing", ClearviewHwy-2-W;
"Casino Resort", ClearviewHwy-2-W; 90 Deg Advance Turn Arrow 16.0" X 13.0";

SS270-RAMP5B-2WB



3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;
"Glenwood", ClearviewHwy-2-W; "Hot Springs", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP2-3WB

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7527
JOSEPH A. SARTINI
Apr 6 2021 3:14 PM
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STANDARD SIGN ASSEMBLIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	73	83
				②	SIGN LAYOUT SHEET			

M 3-2
24" X12"

M 3-4
24" X12"

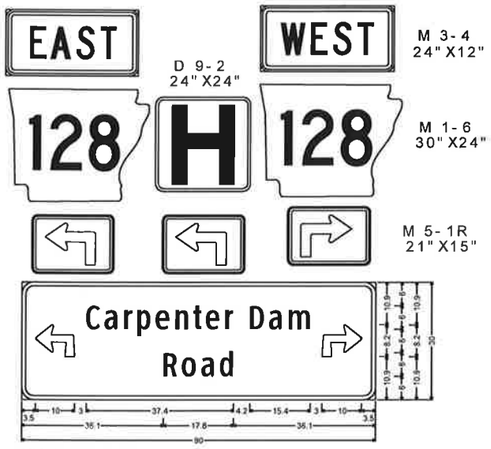
D 9-2
24" X24"

M 1-6
30" X24"

M 1-6
30" X24"

M 5-1L
21" X15"

M 5-1R
21" X15"



3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White; "Carpenter Dam", ClearviewHwy-2-W;
"Road", ClearviewHwy-2-W; 90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP7-4EB

M 3-4
24" X12"

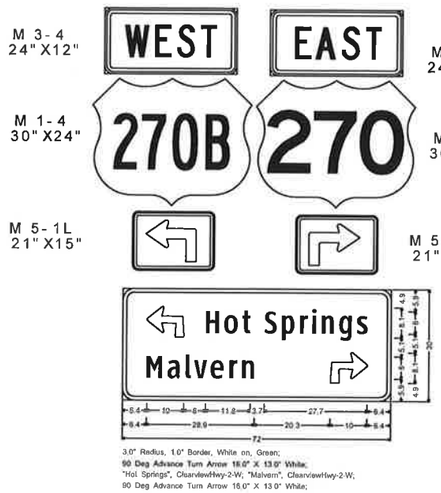
M 3-2
24" X12"

M 1-4
30" X24"

M 1-4
30" X24"

M 5-1L
21" X15"

M 5-1R
21" X15"



3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;
"Hot Springs", ClearviewHwy-2-W; "Malvern", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP9-3EB

M 3-4
24" X12"

M 3-2
24" X12"

M 1-4
30" X24"

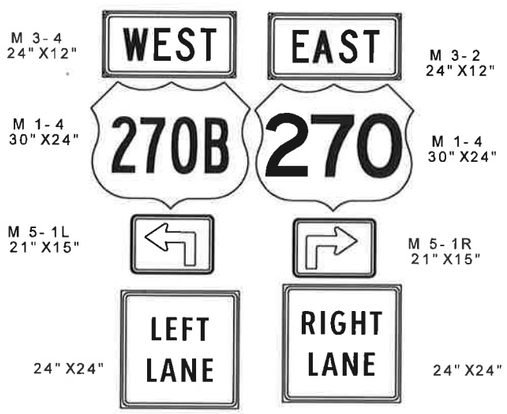
M 1-4
30" X24"

M 5-1L
21" X15"

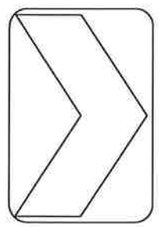
M 5-1R
21" X15"

24" X24"

24" X24"



SS270-RAMP9-2EB



W 1-8
30" X36"

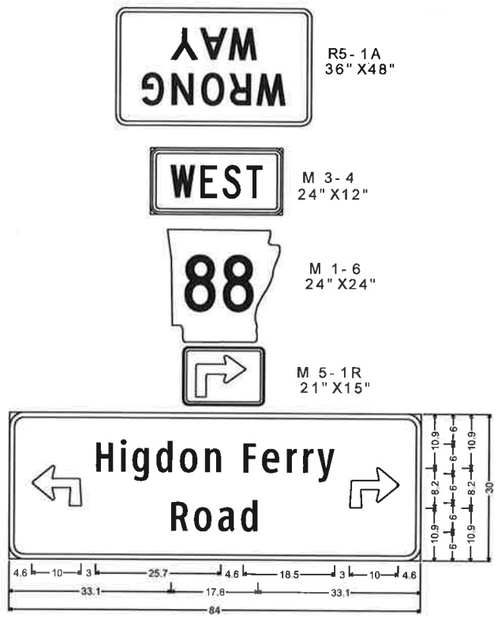
SS270-3.74EB
SS270-3.76EB
SS270-3.78EB
SS270-3.80EB
SS270-3.82EB
SS270-3.84EB
SS270-3.86EB
SS270-3.88EB
SS270-3.90EB

R5-1A
36" X48"

M 3-4
24" X12"

M 1-6
24" X24"

M 5-1R
21" X15"



3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;
"Higdon Ferry", ClearviewHwy-2-W; "Road", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP4-2EB



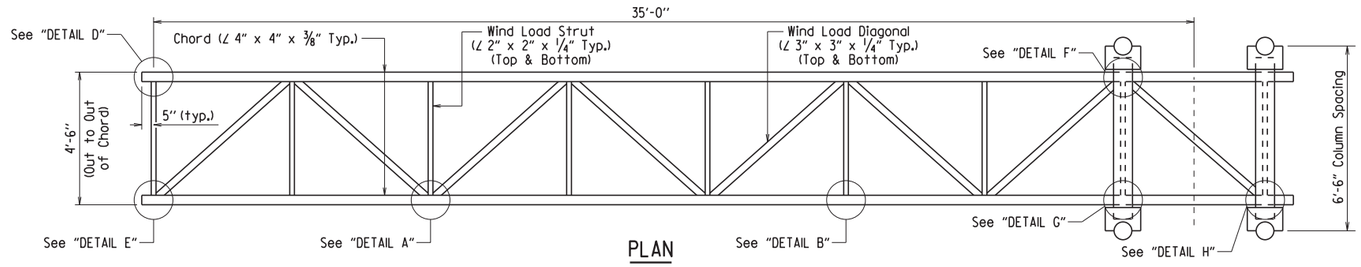
3.0" Radius, 1.0" Border, White on, Green;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;
"McLeod St", ClearviewHwy-2-W;
90 Deg Advance Turn Arrow 16.0" X 13.0" White;

SS270-RAMP3-2WB
SS270-RAMP3-3EB



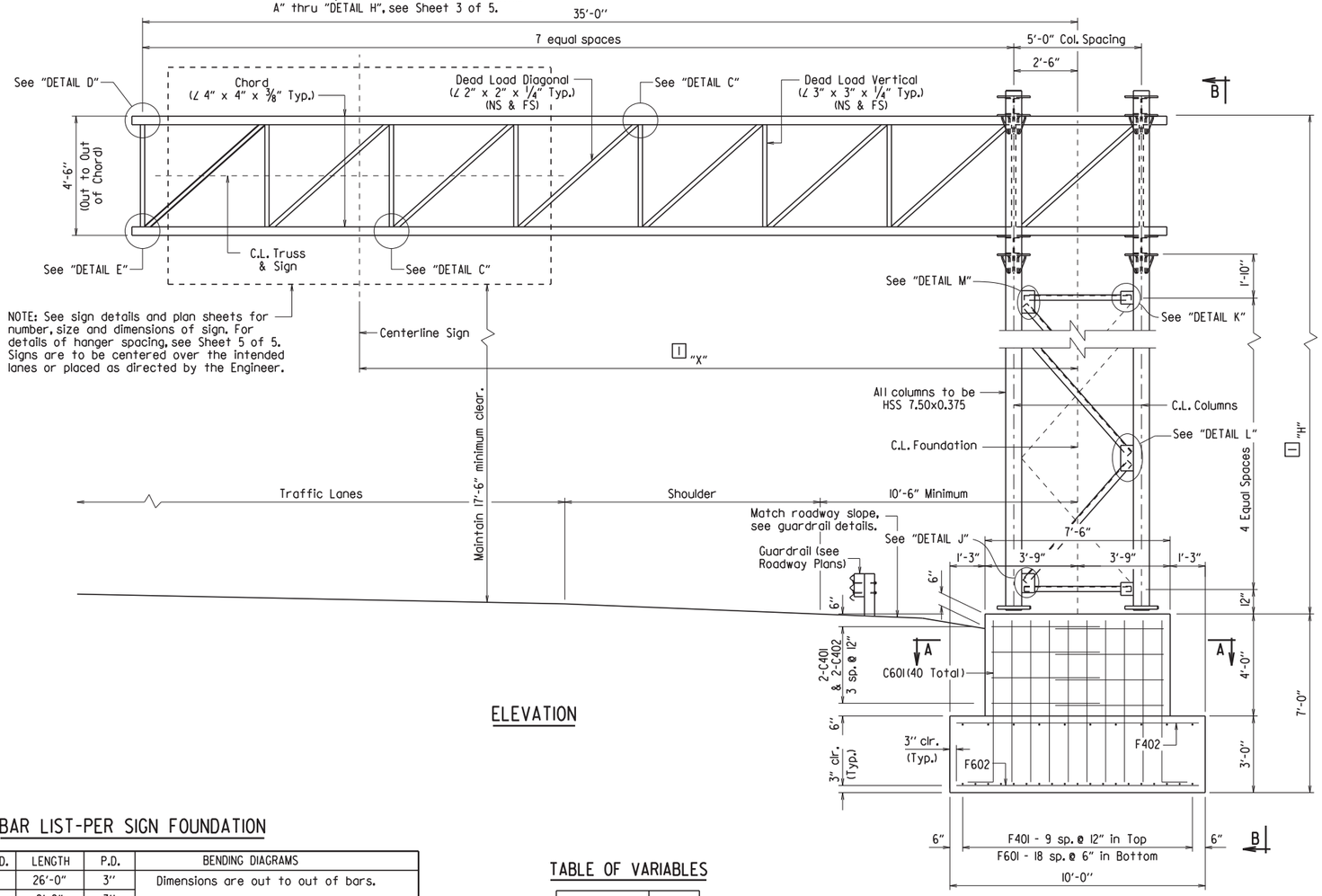
STANDARD SIGN ASSEMBLIES

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	74	83
				①	SEE TABLE	CANTILEVER SIGN STR.		63942



PLAN

NOTE: For "DETAIL J" thru "DETAIL M" and "View B-B", see Sheet 2 of 5. For "DETAIL A" thru "DETAIL H", see Sheet 3 of 5.



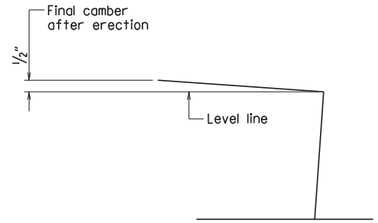
ELEVATION

① NOTE: The Contractor shall make field measurements to determine the following:

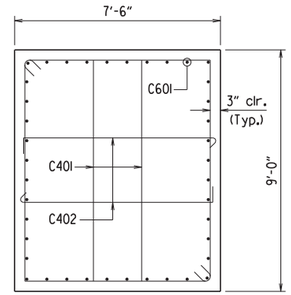
1) To verify that dimension "X" is sufficient to center the sign over the intended lane while maintaining minimum horizontal clearances.

2) To determine the column height "H" required to maintain the minimum vertical clearance with the centerline of the sign located at the C.L. of the truss. If the structure height "H" exceeds 30'-0" contact the Engineer.

These verifications and measurements are required prior to submittal of the shop drawings. The column height "H" shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements.



TRUSS CAMBER DIAGRAM



SECTION A-A

BAR LIST-PER SIGN FOUNDATION

MARK	NO. REQ'D.	LENGTH	P.D.	BENDING DIAGRAMS
C401	8	26'-0"	3"	Dimensions are out to out of bars.
C402	8	8'-0"	3"	
C601	40	7'-2"	4½"	
F401	10	14'-6"	Str.	
F402	15	9'-6"	Str.	
F601	19	14'-6"	Str.	
F602	29	9'-6"	Str.	

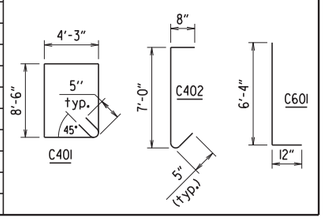


TABLE OF VARIABLES

STRUCTURE NUMBER	"X"
0C-440-60-52	26'-6"
0C-030-62-26	27'-0"

TABULAR DATA BY: JYP DATE: 1-21-2021

CHECKED BY: KAP DATE: 2-19-2021

APPROXIMATE QUANTITIES (FOR INFORMATION ONLY)

STRUCTURE NUMBER	CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
EACH STRUCTURE	26.7	1,635	57

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

Charles R. Ellis
DocuSigned by:
7/21/2021 12:21 PM

SHEET 1 OF 5
DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

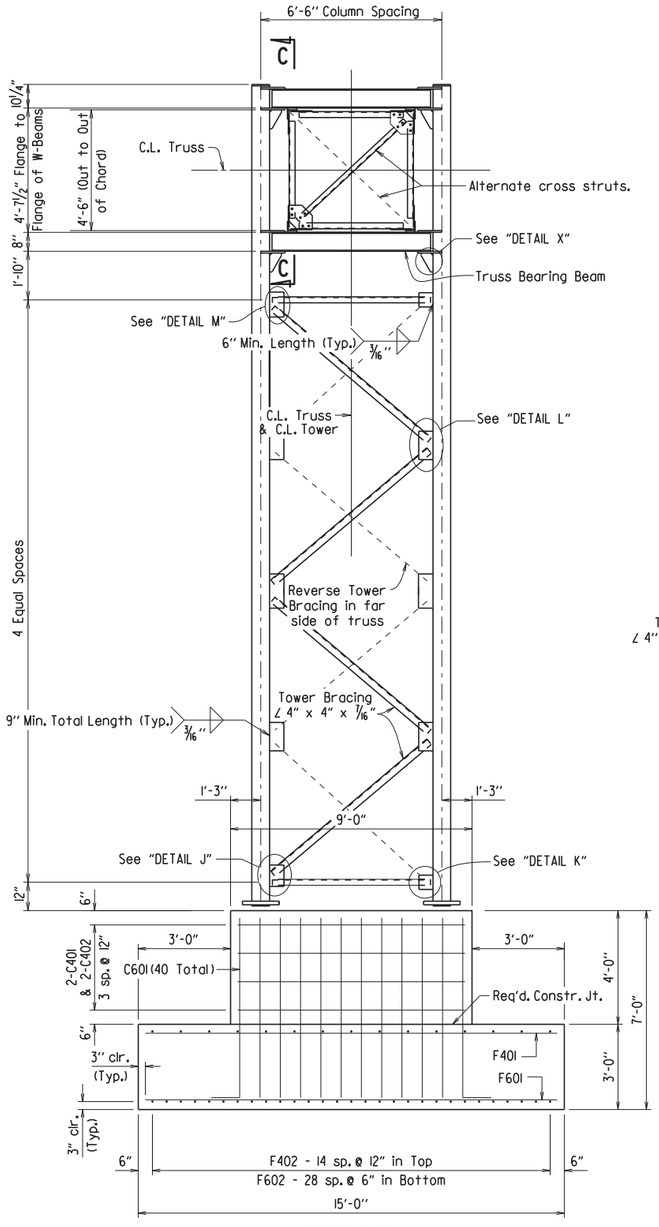
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CHECKED BY: KWY DATE: 4/8/2015
DESIGNED BY: CMW DATE: 2/2015

FILENAME: b061709_0CSign35.dgn
SCALE: No Scale

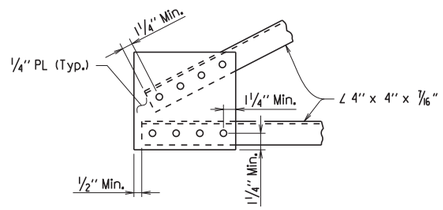
STR. NO. SEE TABLE DRAWING NO. 63942

PRINT DATE: 2/23/2021

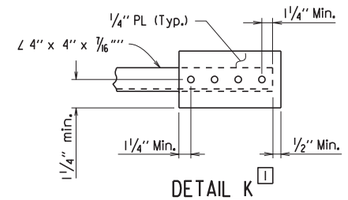
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				6	ARK.			
				JOB NO.		061709	75	83
				①	SEE TABLE	CANTILEVER SIGN STR.		63943



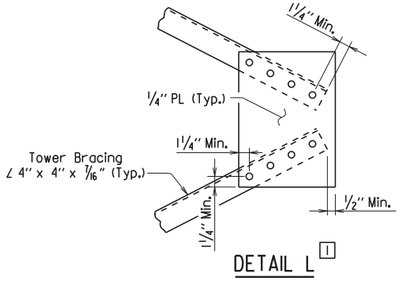
VIEW B-B



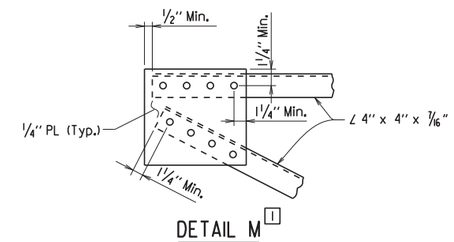
DETAIL J [1]



DETAIL K [1]



DETAIL L [1]

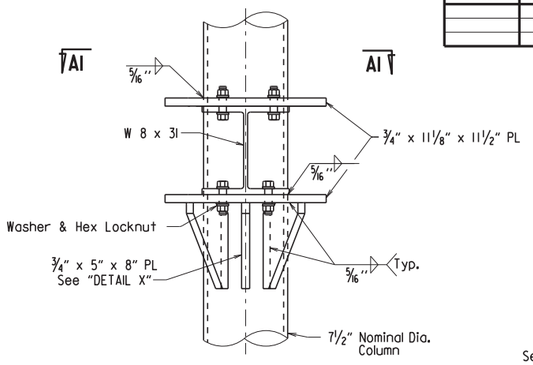


DETAIL M [1]

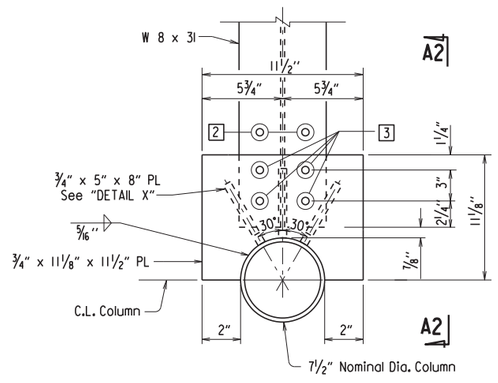
[1] Bolts shall be ¾" ø and open holes shall be 13/16 " ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] Bolts shall be ¾" ø. Provide 13/16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 13/16 " ø holes in ¾" shim plate and top or bottom beam flanges as required.

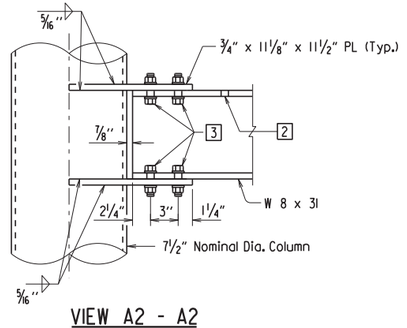
[3] Bolts shall be ¾" ø. Provide 13/16 " ø holes at top and bottom beam flanges and connection plates.



DETAIL - TRUSS BEARING SUPPORT

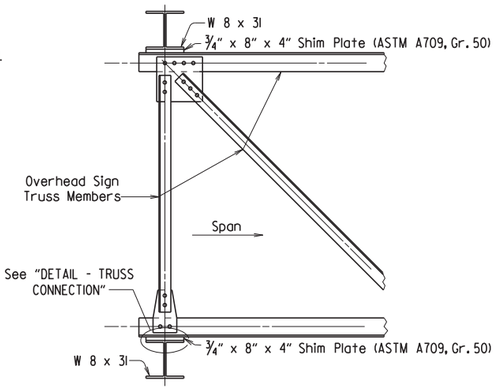


VIEW A1 - A1

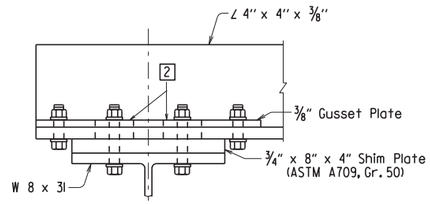


VIEW A2 - A2

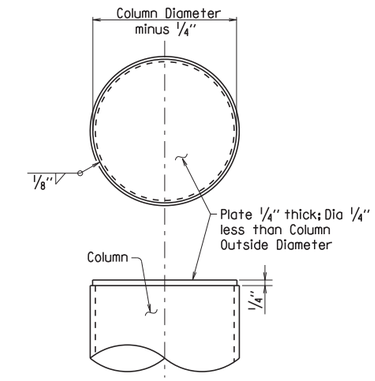
¾" x 5" x 8" Plate not shown for clarity



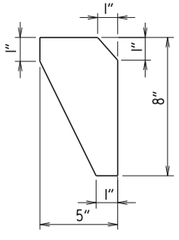
VIEW C-C



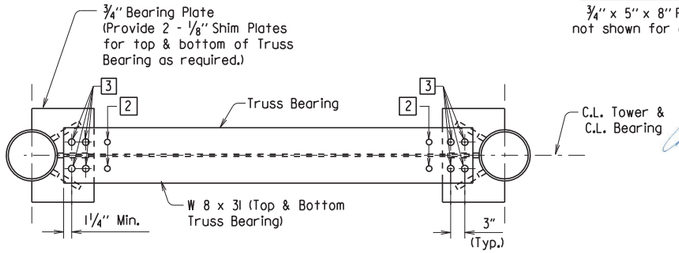
DETAIL - TRUSS CONNECTION



END CAP DETAIL



DETAIL X



PLAN AT TRUSS BEARING

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER
7:21:21 PM 12 2021

SHEET 2 OF 5
DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

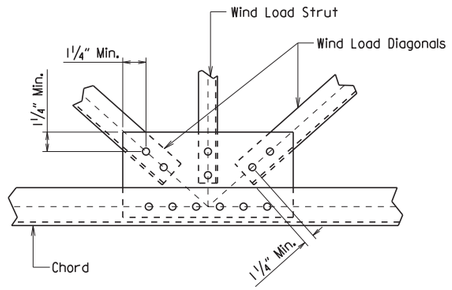
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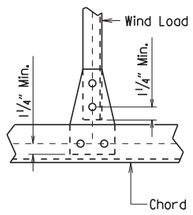
STR. NO. SEE TABLE DRAWING NO. 63943

PRINT DATE: 1/21/2021

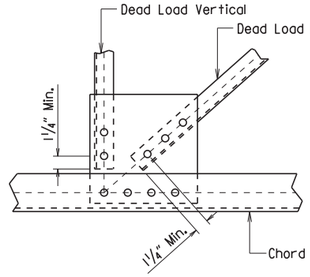
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				6	ARK.			
				JOB NO.		061709	76	83
				(1) SEE TABLE		CANTILEVER SIGN STR.		63944



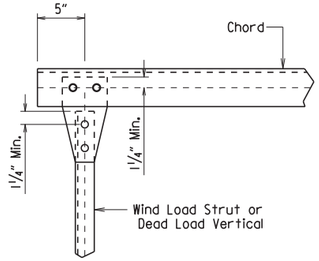
DETAIL A [1]



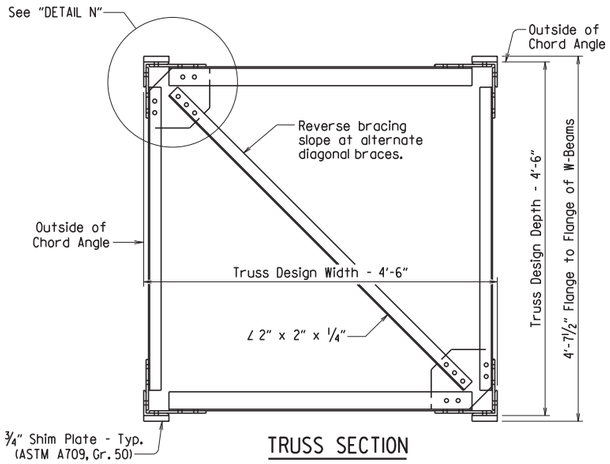
DETAIL B [1]



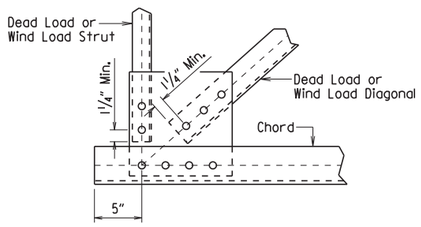
DETAIL C [1]



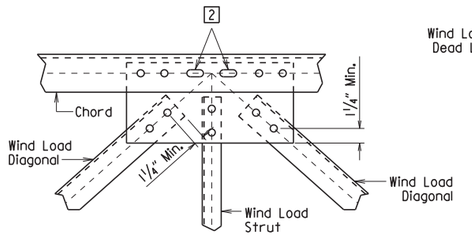
DETAIL D [1]



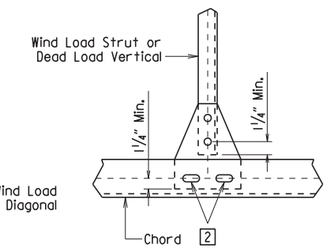
TRUSS SECTION



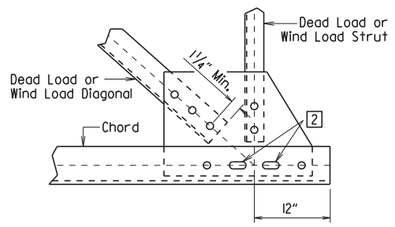
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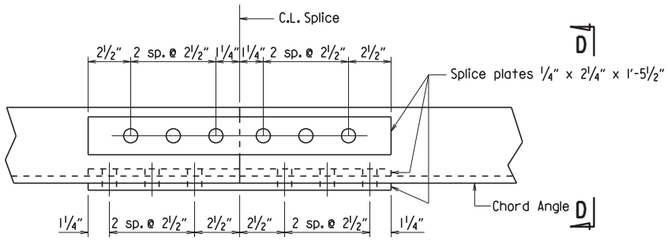
DETAIL F [1]



DETAIL G [1]

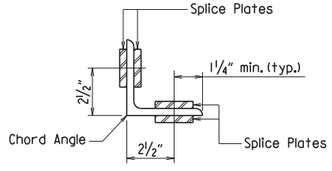


DETAIL H [1]

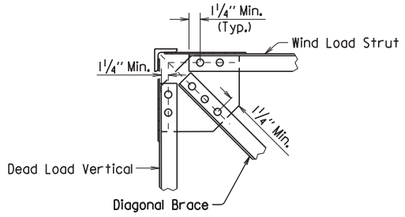


Note: Chord angles may be spliced in convenient lengths for galvanizing and sign placement.

CHORD SPLICE [3]



VIEW D-D



DETAIL N [1]

Note: Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".

[1] Bolts shall be ¾" ø and open holes shall be 13/16 " ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] Bolts shall be ¾" ø. Provide 13/16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Clearance between end of slot and adjacent bolt hole shall be no less than 1½".

[3] Bolts shall be ¾" ø and open holes shall be 13/16 " ø.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

Charles R. Ellis
1 Mar 12 2021 12:21 PM

SHEET 3 OF 5
DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

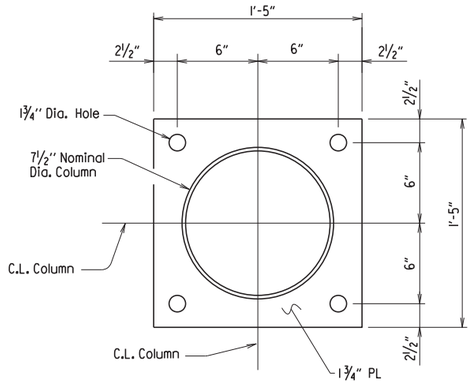
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CHECKED BY: KWY DATE: 4/8/2015
DESIGNED BY: CMW DATE: 2/2015

FILENAME: b061709_0CSign35.dgn
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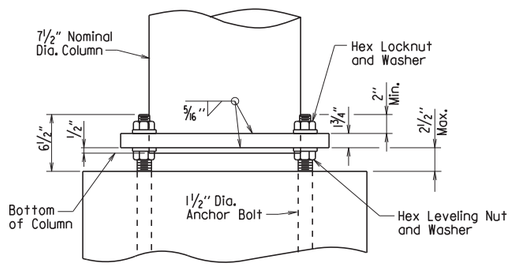
STR. NO. SEE TABLE DRAWING NO. 63944

PRINT DATE: 1/21/2021

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				6	ARK.			
				JOB NO.		061709	77	83
				①	SEE TABLE	CANTILEVER SIGN STR.		63945

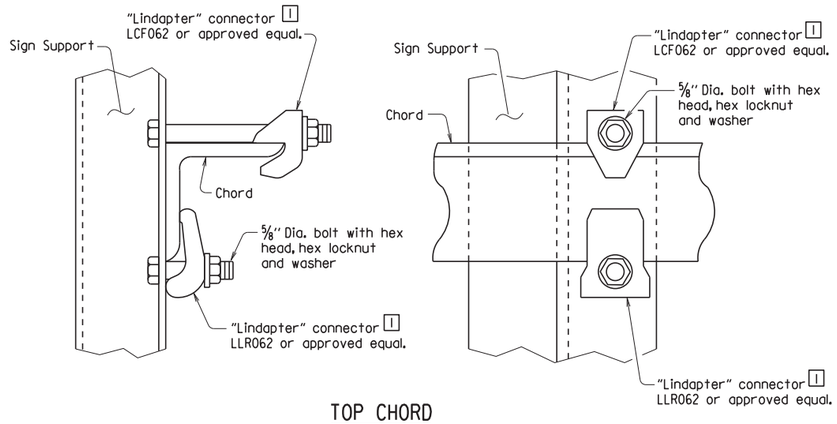


PLAN - COLUMN BASE

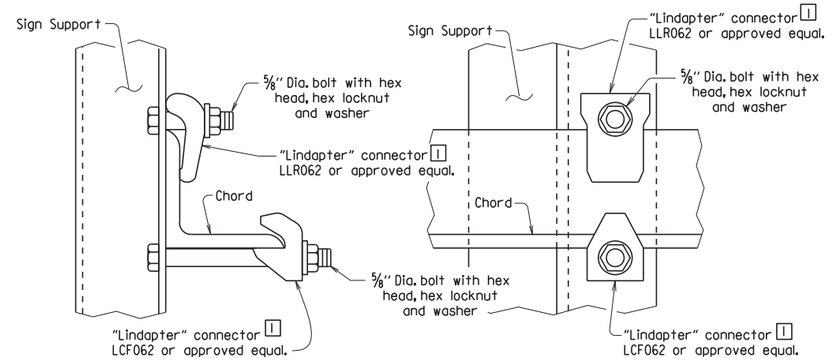


Note: Diameter of hole in base plate to be 1/8" larger than column diameter.

ELEVATION - COLUMN BASE



TOP CHORD

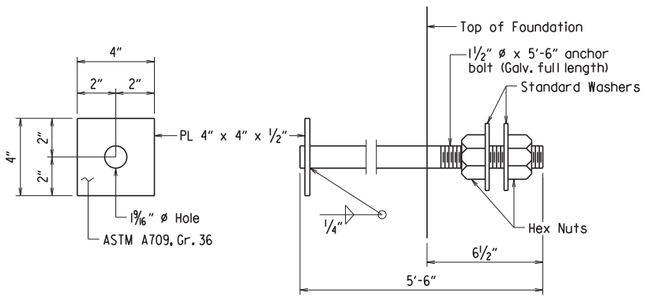


BOTTOM CHORD

[1] All "Lindapter" connectors or approved equal shall be installed according to manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

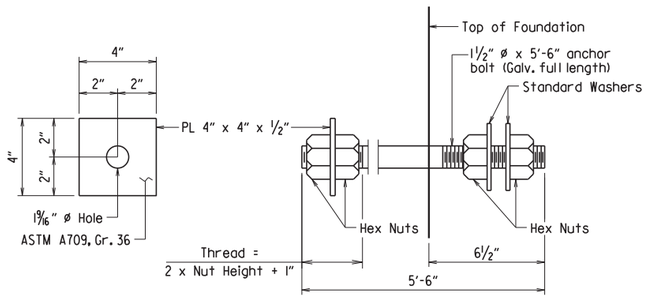
Note: Install all support connectors clear of the gusset plates and splice locations.

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS



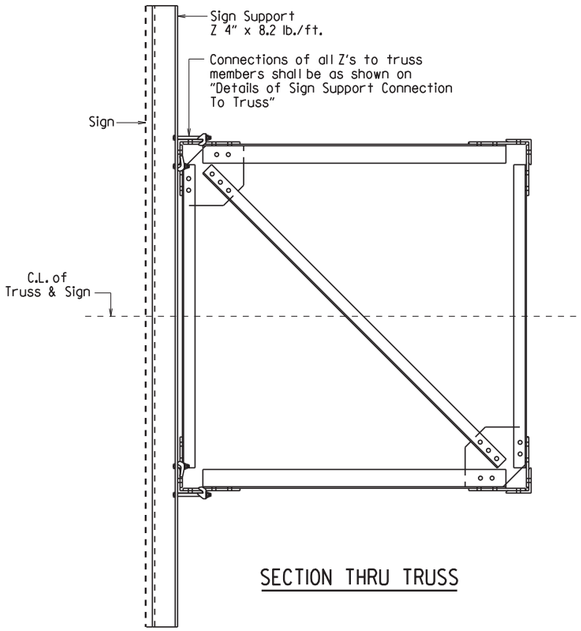
Anchor bolts shall comply with AASHTO M 314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL

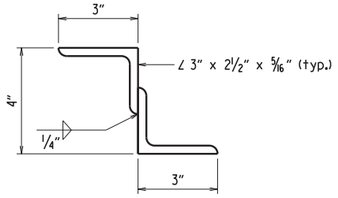


Anchor bolts shall comply with AASHTO M 314, Grade 55, with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for bolts shall be as specified in Subsection 807.07.

ALTERNATE ANCHOR BOLT DETAIL



SECTION THRU TRUSS



NOTE: Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT

STATE OF ARKANSAS
Charles R. Ellis
Date: 2021.12.12 12:21 PM
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

SHEET 4 OF 5
DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CMW DATE: 2/10/2015
CHECKED BY: KWY DATE: 4/8/2015
DESIGNED BY: CMW DATE: 2/2015

FILENAME: b061709_0CSign35.dgn
SCALE: No Scale

STR. NO. SEE TABLE DRAWING NO. 63945

PRINT DATE: 1/21/2021

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	78	83
				(1) SEE TABLE		CANTILEVER SIGN STR.		63946

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Sixth Edition, 2013 with current interim revisions.

Basic Wind Speed = 90 mph.
Fatigue Category: I

This structure is approved for 235 square feet of sign area. Use of additional sign area must be approved by the Engineer. If the structure height ("H") exceeds 30'-0" contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:

Class S Concrete	f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A)	fy = 60,000 psi

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Grade 50 (Fy = 50,000 psi)
[1] Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi), ASTM A500, Gr. B (Fy = 42,000 psi), ASTM A501, Gr. B (Fy = 50,000 psi),
Z-Shapes:	ASTM A709, Grade 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type I
Locknuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than ½" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone I minimum service temperature. This work and materials shall be paid for in accordance with Job Special Provision "Steel Sign Structures".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be ¾" ø and open holes shall be 13/16" ø. Bolt spacing shall be 2½" for ¾" ø bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

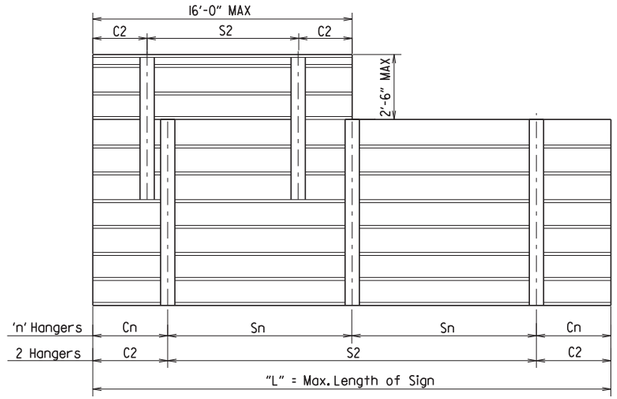
All truss frame bolts shall comply with ASTM A325 Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

Locknuts to be equipped with nylon locking inserts or other approved type locking system. Locknuts to be installed according to manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55 including Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07. Anchor bolts shall be pretensioned in accordance with Job Special Provision "Steel Sign Structures".

Shoring may be required to protect existing shoulders during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "Steel Cantilever Sign Structure ( )". The excavations for the footings shall be backfilled before the structure is attached to the foundations.

PRINT DATE: 1/21/2021



Note: See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

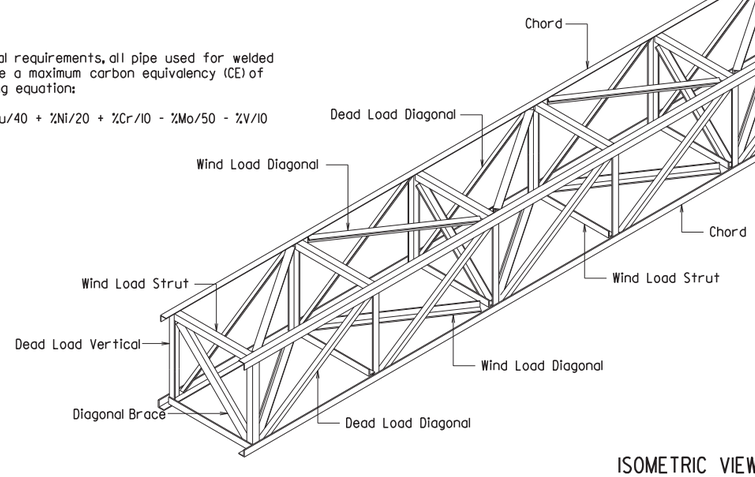
[1] In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

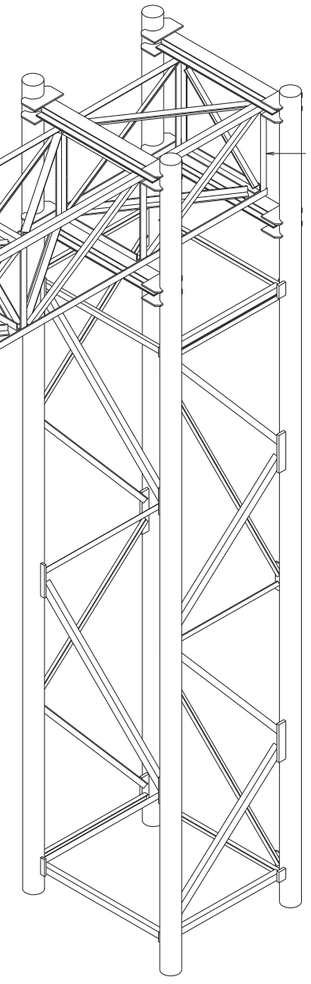
HANGER VARIABLES

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing 'Sn'
15'-0"	2 Hangers	0.21 x 'L'	0.58 x 'L'
30'-0"	3 Hangers	0.145 x 'L'	0.355 x 'L'

Hanger spacing and cantilever length shall be rounded to the nearest inch.



ISOMETRIC VIEW



*In addition to material requirements, all pipe used for welding applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:
CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
7 Mar 12 2021 12:21 PM
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BRIDGE ENGINEER

SHEET 5 OF 5
DETAILS OF 35' STEEL CANTILEVER SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

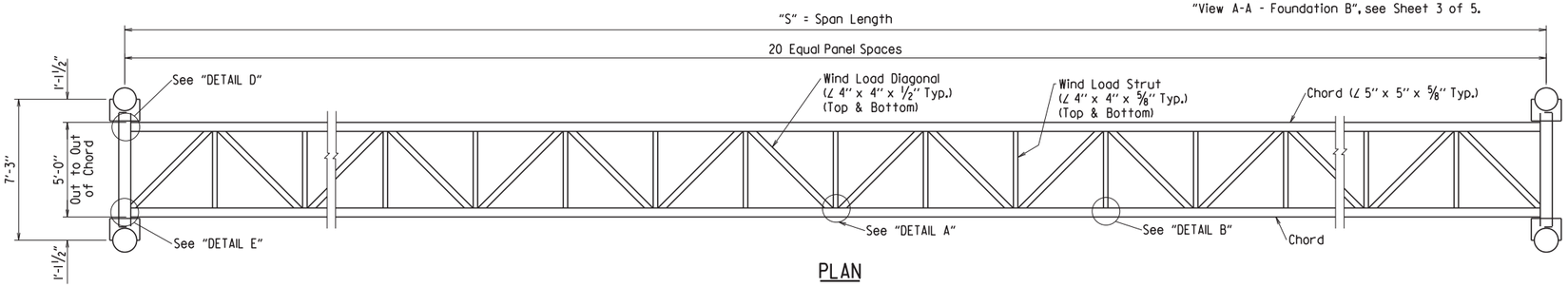
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CHECKED BY: KWY DATE: 4/8/2015
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STR. NO. SEE TABLE DRAWING NO. 63946

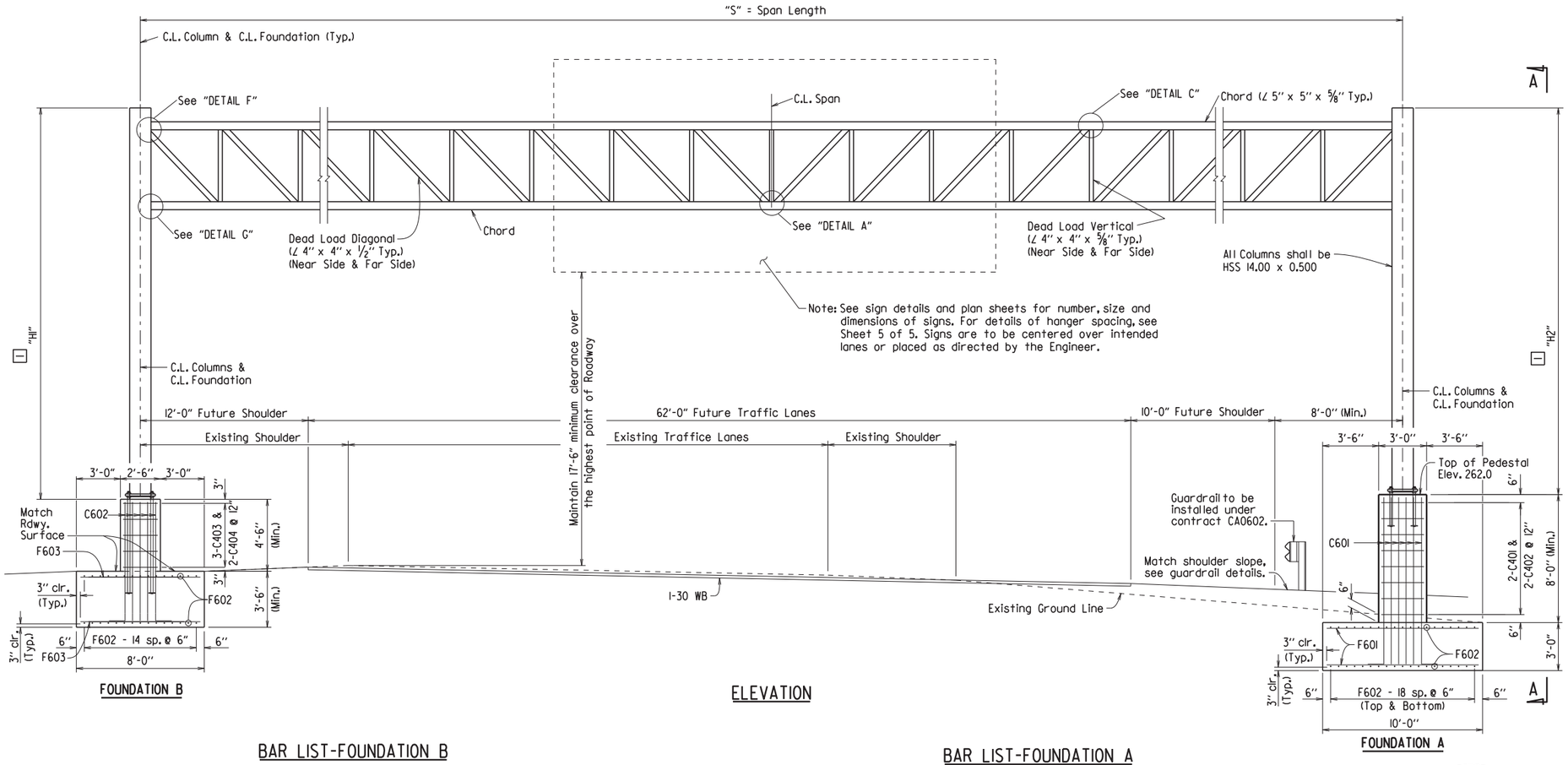
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				6	ARK.			
				JOB NO.		061709	79	83
				(1) SEE TABLE		OVERHEAD SIGN STR.		63947

Notes:
For "View A-A - Foundation A", see Sheet 2 of 5.

For "DETAIL A" thru "DETAIL G" and "View A-A - Foundation B", see Sheet 3 of 5.



PLAN



FOUNDATION B

ELEVATION

FOUNDATION A

[1] The Contractor shall make field measurements to determine the column heights "H1" and "H2" that are required to maintain the minimum vertical clearance with the centerline of the sign located at the centerline of the truss. These column heights shall be shown on the shop drawings with a note stating that the Contractor has made the required field measurements. If the structure height ("H1" or "H2") exceeds 30'-0" contact the Engineer. The Contractor shall also verify that the variable span length (86'-0" to 100'-0") is sufficient to meet the minimum clearances and to fit the new structure to the existing and/or proposed conditions.

[2] The sign structure shall be positioned to maintain a 45'-0" minimum horizontal clearance from the existing overhead utilitity line.

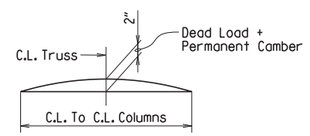
TABLE OF VARIABLES

SIGN STRUCTURE	SPAN LENGTH "S"	FOUNDATION	
		MEDIAN	OUTSIDE SHOULDER
[2] OH-030-60-67	93'-0"	B	A

TABULAR DATA BY: JYP DATE: 1/25/2021
CHECKED BY: KAP DATE: 2/25/2021

APPROXIMATE QUANTITIES FOR FOUNDATION (FOR INFORMATION ONLY)

STRUCTURE	CLASS S CONCRETE (CU. YDS.)	REINFORCING STEEL (LBS.)	EXCAVATION (CU. YDS.)
FOUNDATION A	40.89	4,205	66
FOUNDATION B	34.89	3,655	39



TRUSS CAMBER DIAGRAM

BAR LIST-FOUNDATION B

MARK	NO. REQ'D	LENGTH	P.D.	BENDING DIAGRAMS
				Dimensions are out to out of bars.
C403	15	25'-2"	3"	10'-3", 2'-1", 5" (Typ.), 45°, C403
C404	10	3'-1"	3"	2'-1", 5" (Typ.), 8", C404
C602	102	8'-3"	4½"	7'-5", 12", C602
F602	30	23'-6"	Str.	
F603	94	7'-6"	Str.	

BAR LIST-FOUNDATION A

MARK	NO. REQ'D	LENGTH	P.D.	BENDING DIAGRAMS
				Dimensions are out to out of bars.
C401	16	25'-0"	3"	9'-8", 2'-7", 5" (Typ.), 45°, C401
C402	16	3'-7"	3"	2'-7", 5" (Typ.), 8", C402
C601	72	11'-3"	4½"	10'-5", 12", C601
F601	94	9'-6"	Str.	
F602	38	23'-6"	Str.	

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SHEET 1 OF 5
DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

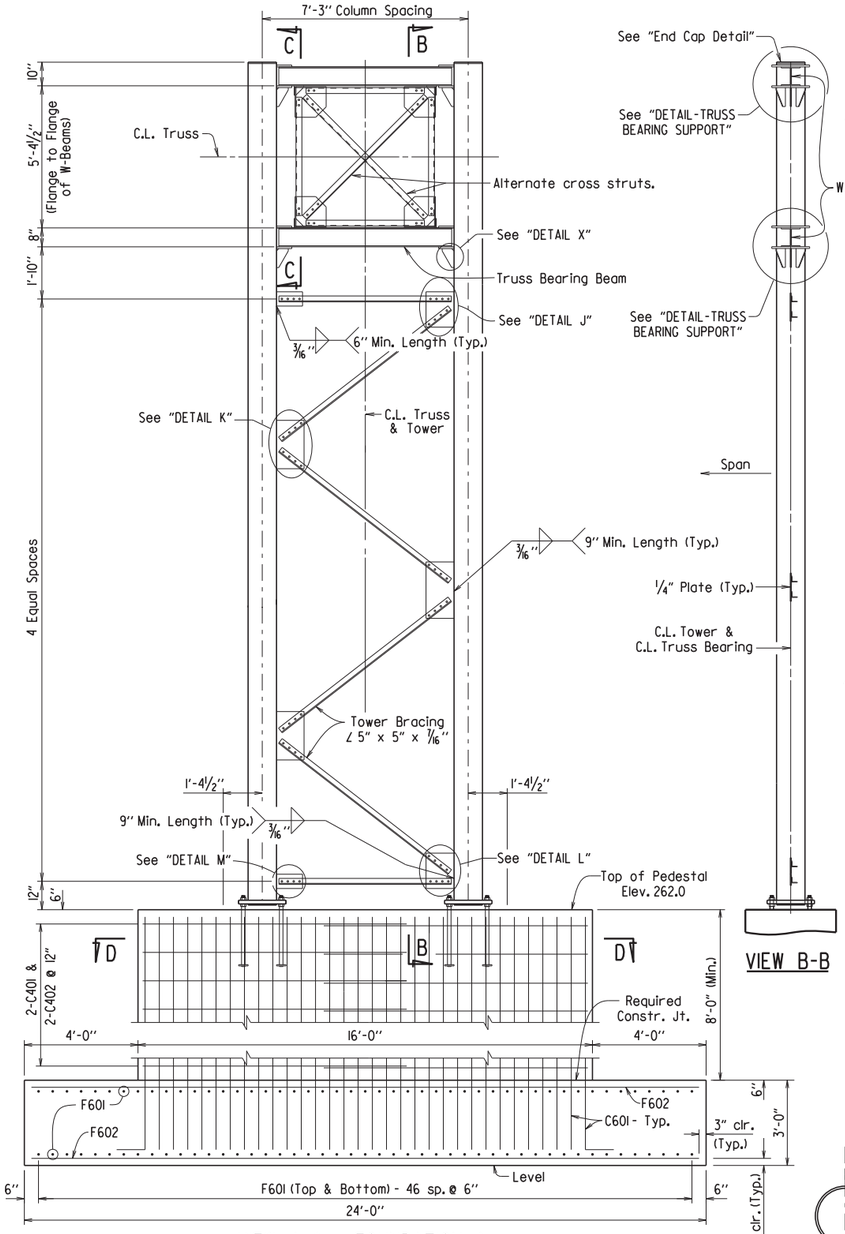
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

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CHECKED BY: ACP/JYP DATE: 4/8/16
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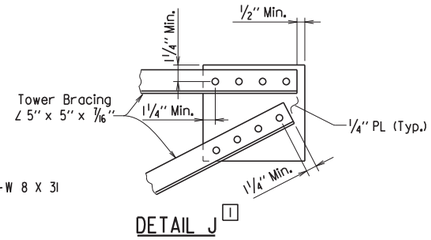
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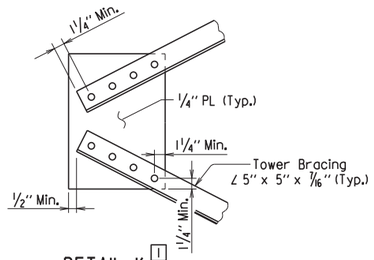


VIEW A-A - FOUNDATION A

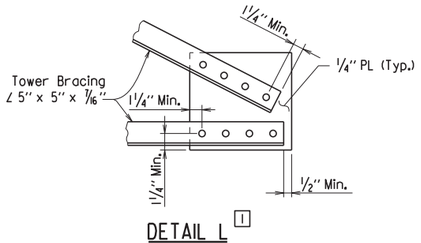
VIEW B-B



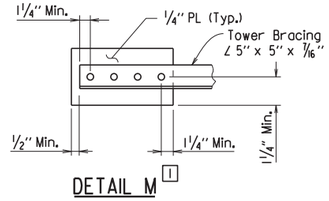
DETAIL J [1]



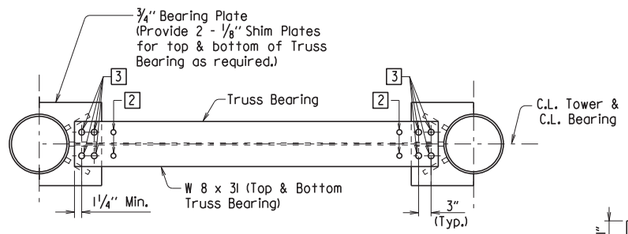
DETAIL K [1]



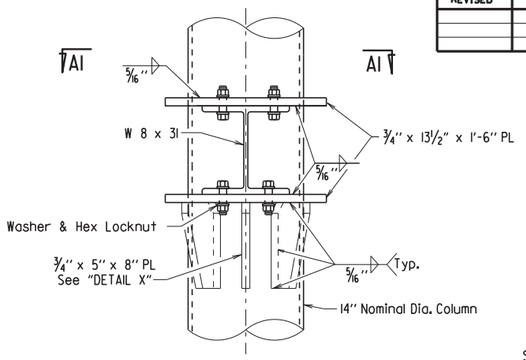
DETAIL L [1]



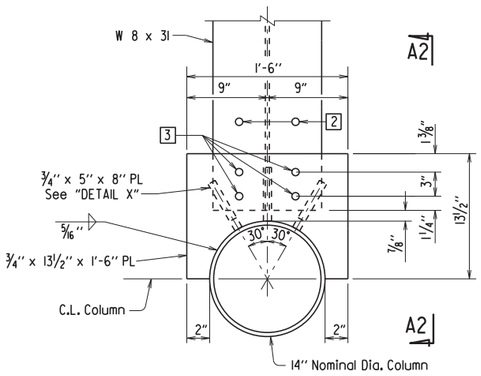
DETAIL M [1]



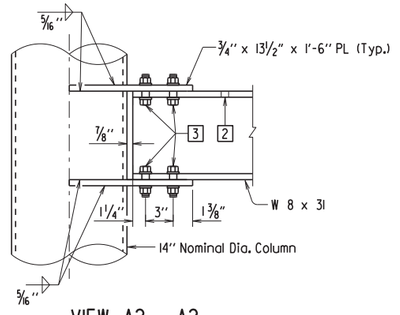
PLAN AT TRUSS BEARING



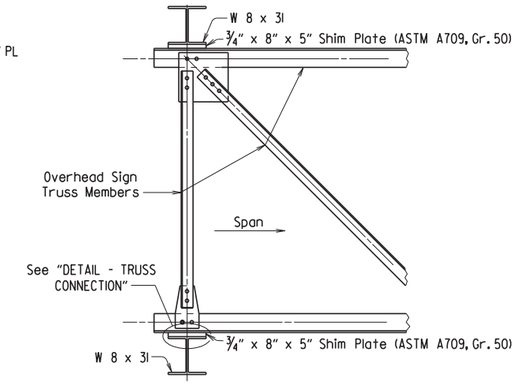
DETAIL - TRUSS BEARING SUPPORT



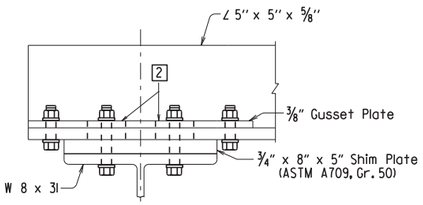
VIEW A1 - A1



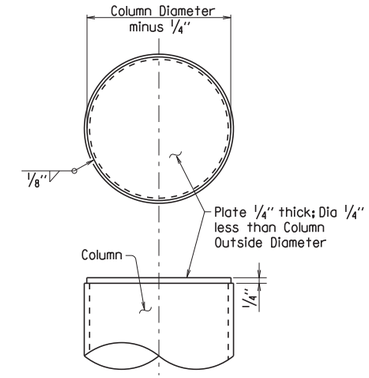
VIEW A2 - A2
¾" x 5" x 8" Plate not shown for clarity



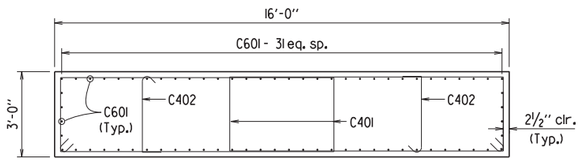
VIEW C-C



DETAIL - TRUSS CONNECTION

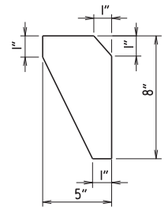


END CAP DETAIL



SECTION D-D

Note: For details of "View A-A - Foundation B", see Sheet 3 of 5.



DETAIL X

[1] Bolts shall be ¾" ø and open holes shall be 13/16" ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] Bolts shall be ¾" ø. Provide 13/16" x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Provide 13/16" ø holes in ¾" shim plate and top or bottom beam flanges as required.

[3] Bolts shall be ¾" ø. Provide 13/16" ø holes at top and bottom beam flanges and connection plates.

STATE OF ARKANSAS
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SHEET 2 OF 5
DETAILS OF 86' TO 100'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

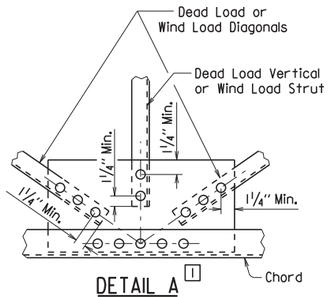
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: EOR/KAP DATE: 9/3/15
CHECKED BY: ACP/JYP DATE: 4/8/16
DESIGNED BY: ACP/KAP DATE: 1/12
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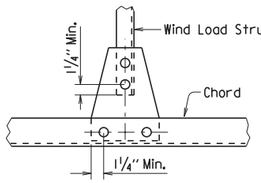
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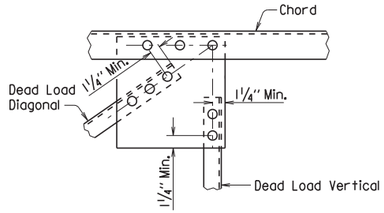
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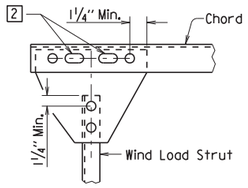
DETAIL A [1]



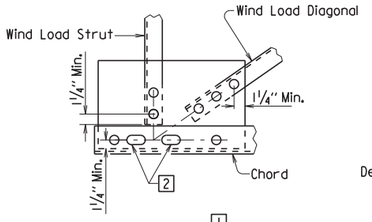
DETAIL B [1]



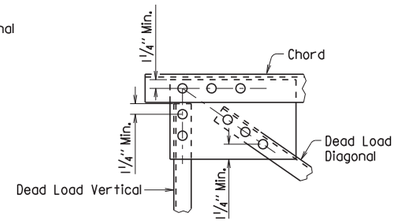
DETAIL C [1]



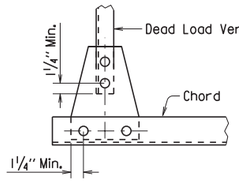
DETAIL D [1]



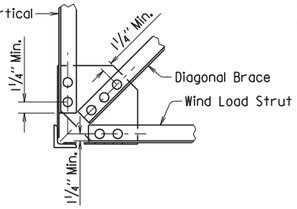
DETAIL E [1]



DETAIL F [1]

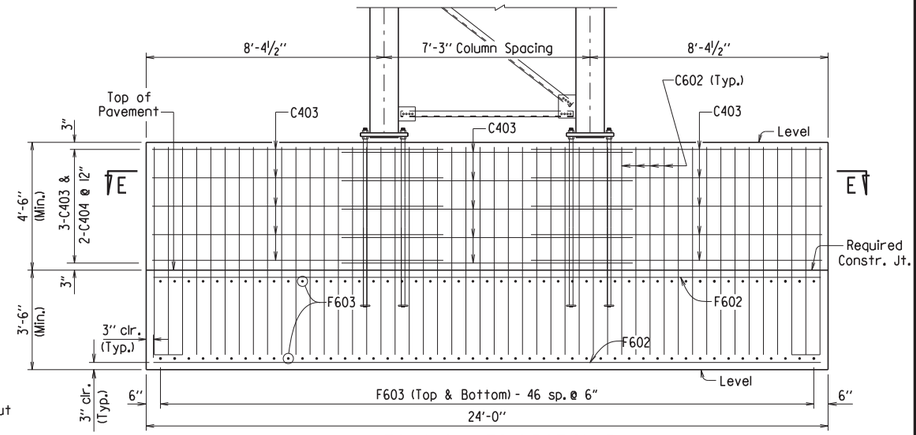


DETAIL G [1]

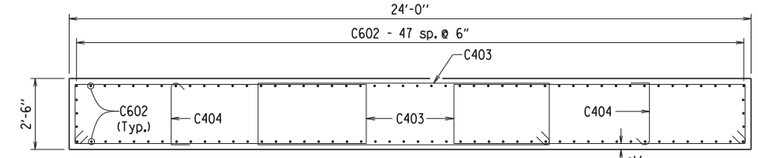


DETAIL N [1]

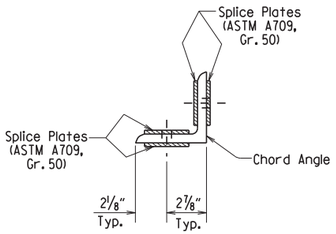
Note:
For details of column not shown, see "View A-A - Foundation A" on Sheet 2 of 5.



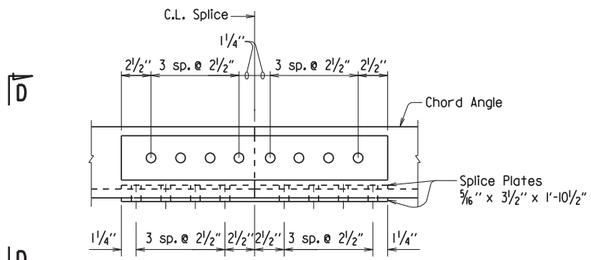
VIEW A-A - FOUNDATION B



SECTION E-E

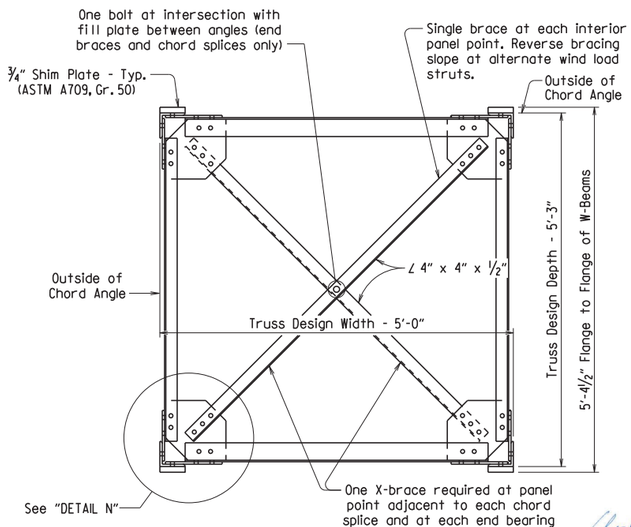


VIEW D-D



Note: Chord angles may be spliced in convenient lengths for galvanizing and sign placement.

CHORD SPLICE [3]



TRUSS SECTION

Note: Unless otherwise noted, thickness of all Gusset Plates shall be ⅜".

[1] Bolts shall be ¾" ø and open holes shall be 13/16 " ø. Minimum center to center bolt spacing shall be 2½". Dimensions shown are typical.

[2] Bolts shall be ¾" ø. Provide 13/16 " x 2" slotted hole in gusset plate and chord angle. Use plate washer on gusset plate side. Clearance between end of slot and adjacent bolt hole shall be no less than 1½".

[3] Bolts shall be ¾" ø and open holes shall be 13/16 " ø.

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SHEET 3 OF 5
DETAILS OF 86' TO 100'
STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

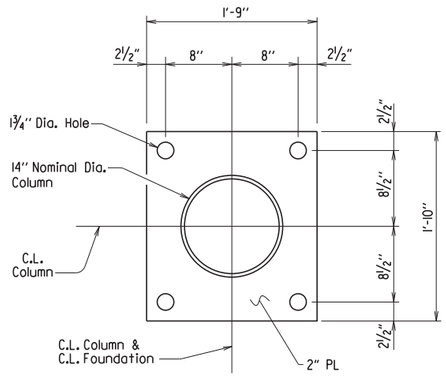
DRAWN BY: EOR/KAP DATE: 9/3/15
CHECKED BY: ACP/JYP DATE: 4/8/16
DESIGNED BY: ACP/KAP DATE: 1/12

FILENAME: b061709_0HSign86-100.dgn
SCALE: No Scale

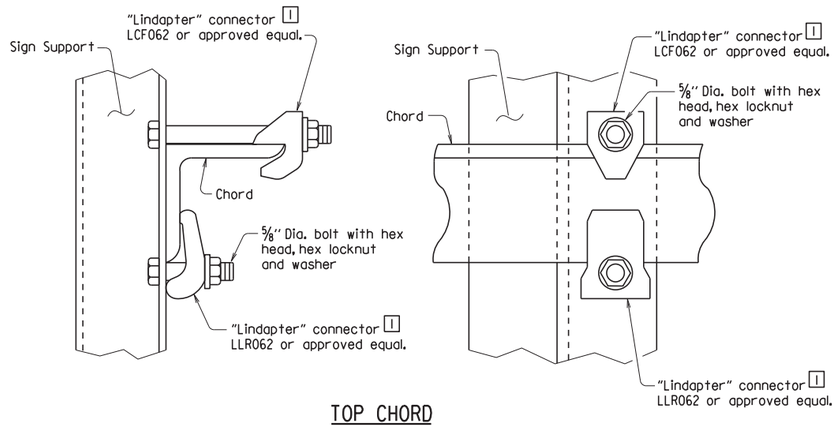
STR. NO. SEE TABLE DRAWING NO. 63949

PRINT DATE: 3/11/2021

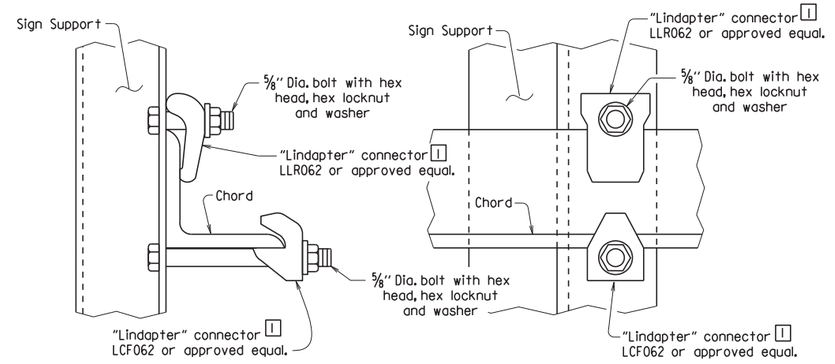
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	82	83
				(1) SEE TABLE		OVERHEAD SIGN STR.		63950



PLAN - COLUMN BASE



TOP CHORD

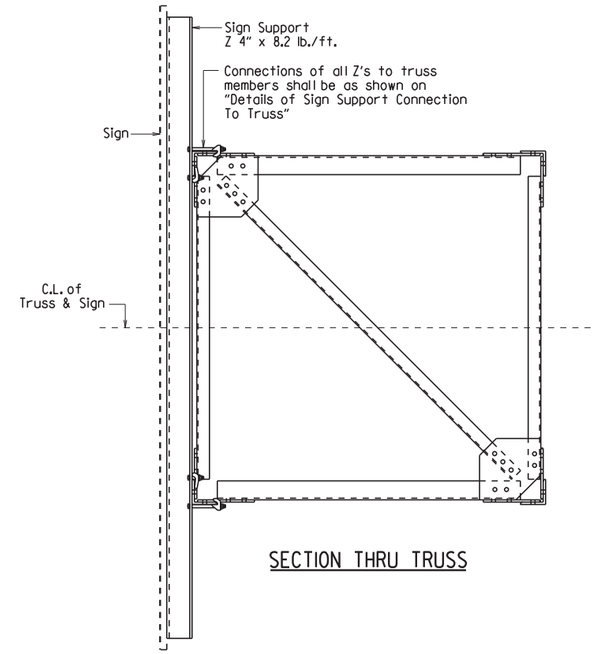


BOTTOM CHORD

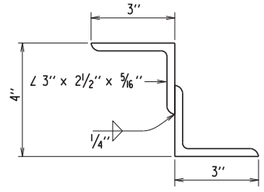
[1] All "Lindapter" connectors or approved equal shall be installed according to manufacturer's recommendations. All connectors, bolts, nuts and washers shall be galvanized.

Note: Install all support connectors clear of the gusset plates and splice locations.

DETAILS OF SIGN SUPPORT CONNECTION TO TRUSS

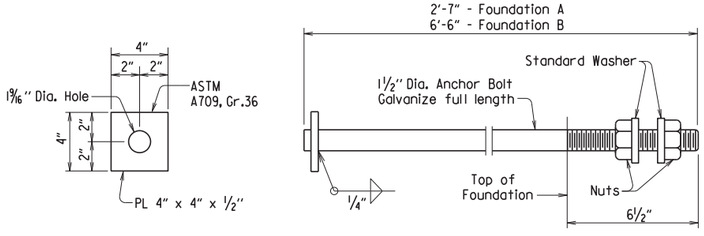


SECTION THRU TRUSS



NOTE: Structural Z support may be fabricated from angles as shown.

DETAILS OF ALTERNATE Z SUPPORT

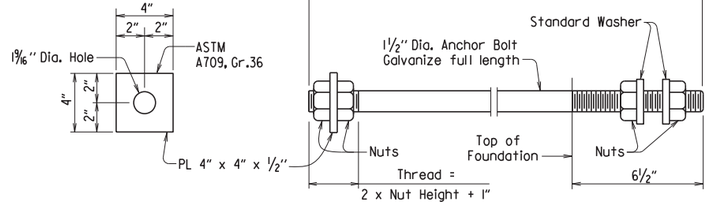


Note: Diameter of hole in base plate to be ⅛" larger than column diameter.

ELEVATION - COLUMN BASE

Anchor bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ANCHOR BOLT DETAIL



Anchor bolts shall comply with AASHTO M 314, Grade 55 with Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts for bolts shall be as specified in Subsection 807.07.

ALTERNATE ANCHOR BOLT DETAIL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
BRIDGE ENGINEER

7 Mar 12 2021 12:21 PM
DocuSign

SHEET 4 OF 5
DETAILS OF 86' TO 100' STEEL OVERHEAD SIGN STRUCTURE

ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: EOR DATE: 9/3/15 FILENAME: b061709_0HSign86-100.dgn
CHECKED BY: ACP DATE: 4/8/16 SCALE: No Scale
DESIGNED BY: ACP DATE: 1/12

STR. NO. SEE TABLE DRAWING NO. 63950

PRINT DATE: 3/11/2021

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		061709	83	83
				(1) SEE TABLE		OVERHEAD SIGN STR.		63951

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction, 2014 Edition, with applicable Supplemental Specifications and Special Provisions. Section and Subsection refer to the Specifications unless otherwise noted in the plans.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Sixth Edition, 2013 with current interim revisions.

Basic Wind Speed = 90 mph.
Fatigue Category: I

This structure is approved for a maximum sign area equal to 75% of the span length times a sign height of 15 feet. Use of additional sign area must be approved by the Engineer. If the structure height ("H" or "H2") exceeds 30'-0" contact the Engineer.

FOUNDATION MATERIALS AND STRENGTHS:

Class S Concrete	f'c = 3,500 psi
Reinforcing Steel (Gr. 60, AASHTO M 31 or M 322, Type A)	fy = 60,000 psi

Structural steel sign support members shall comply with the following specifications:

Angles:	ASTM A709, Gr. 36 (Fy = 36,000 psi)
Plate, W-Section:	ASTM A709, Gr. 50 (Fy = 50,000 psi)
(1) Pipe:	ASTM A139, Gr. C, straight-seam welded (Fy = 42,000 psi), ASTM A500, Gr. B (Fy = 42,000 psi), ASTM A501, Gr. B (Fy = 50,000 psi),
Z-Shapes:	ASTM A709, Gr. 36 (Fy = 36,000 psi)
Shim Plates:	ASTM A1011, SS, Grade 36, Type 2, or Grade 40
Bolts:	ASTM F3125, Grade A325, Type I
Locknuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H
Washers:	ASTM F436
Nuts:	ASTM A563, Grade DH or AASHTO M 292, Grade 2H

The Contractor shall make check measurements in the field and make any adjustments necessary to meet the required clearances and to fit the new structure to the existing conditions.

Drawings show general features of design only. Shop drawings shall be made in accordance with Subsection 807.04, submitted, and approval secured before fabrication is begun.

Requests for substitution of structural steel shapes shown with shapes of greater size must be submitted by the Contractor to the Engineer for approval. Steels of equal or greater strengths will be accepted only when shown on the approved shop drawings. Shapes and materials shown in the plans will be the basis of payment and no additional compensation will be made for any adjustments due to substitutions.

All steel shall be galvanized according to Subsection 807.19. Steel completely encased in concrete may not be galvanized. Galvanized coating damaged during transport, handling or erection shall be field repaired in accordance with Subsection 807.88.

All main load carrying tension members greater than 1/2" in thickness shall conform to the requirements of the Longitudinal Charpy V-Notch test specified for Zone 1 minimum service temperature. This work and materials shall be paid for in accordance with Job Special Provision "Steel Sign Structures".

Field splices shall be located in order to avoid sign panel connections. There shall be a maximum of two field splices and they shall be spaced a minimum of 15 feet apart.

Truss field sections shall be shop assembled. Entire truss shall be fully assembled and lifted into place as one unit on to tower supports. All truss member connections shall be bolted connections.

All welding that is to be done during fabrication of structural steel, including temporary welds, shall be detailed on the shop drawings and submitted for approval. If additional welds are required, whether temporary or permanent, a formal request with detailed drawings shall be submitted to the Engineer for approval. All welding shall conform to Subsection 807.26 except welding of tubular sections shall conform to AWS D1.1 Structural Welding Code.

No circumferential butt welds will be allowed in any pipe sections.

All fillet welds of critical members shall be tested according to AWS D1.1 Structural Welding Code - Steel using the magnetic particle method. Critical welds shall include: column to base plate and truss bottom support to column.

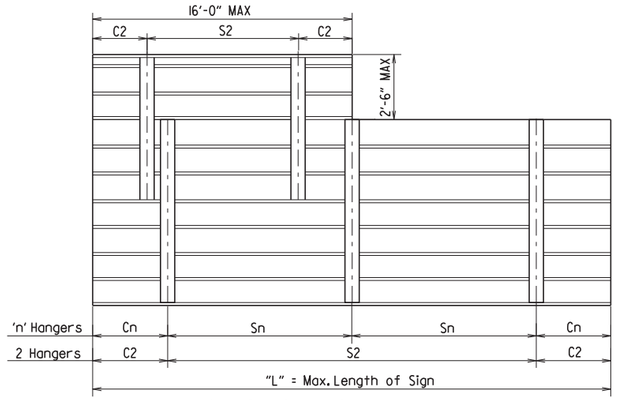
Connections shall be bolted with high-strength bolts. Unless otherwise noted, bolts shall be 3/4" ø and open holes shall be 13/16" ø. Bolt spacing shall be 2 1/2" for 3/4" ø bolts unless otherwise noted. Bolts shall be placed with heads on the outside face of all members.

All truss frame bolts shall comply with ASTM A325 Type 1, galvanized according to Subsection 807.06. Nuts and washers for ASTM A325 Type 1 bolts shall be furnished and galvanized in accordance with Subsection 807.06.

Locknuts to be equipped with nylon locking inserts or other approved type locking system. Locknuts to be installed according to manufacturer's recommendations.

Anchor bolts shall comply with AASHTO M 314, Grade 55 including Supplementary Requirement S1, and galvanized according to Subsection 807.07. Nuts and washers for anchor bolts shall be furnished and galvanized in accordance with Subsection 807.07.

Shoring may be required to protect existing shoulders during excavation. Any shoring required shall not be paid for directly, but shall be considered incidental to the item "Steel Overhead Sign Structure (____)". The excavations for the footings shall be backfilled before the structure is attached to the foundations.



Note: See sign details and plan sheets for number, size and dimensions of signs.

HANGER SPACING DETAILS FOR EXTRUDED PANEL SIGNS

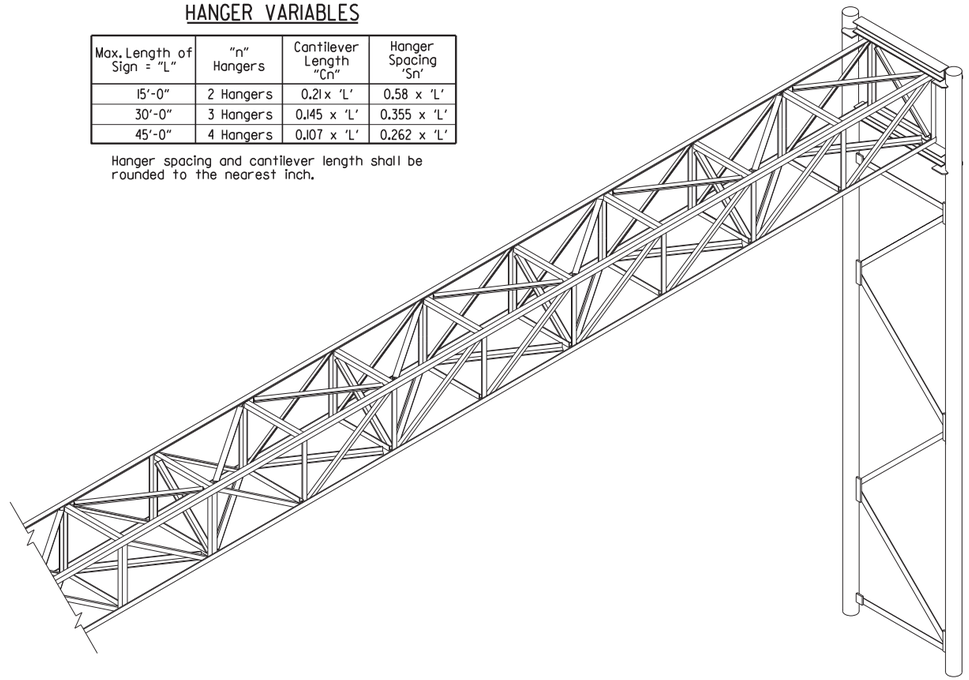
(1) In addition to material requirements, all pipe used for welded applications shall have a maximum carbon equivalency (CE) of 0.4 using the following equation:

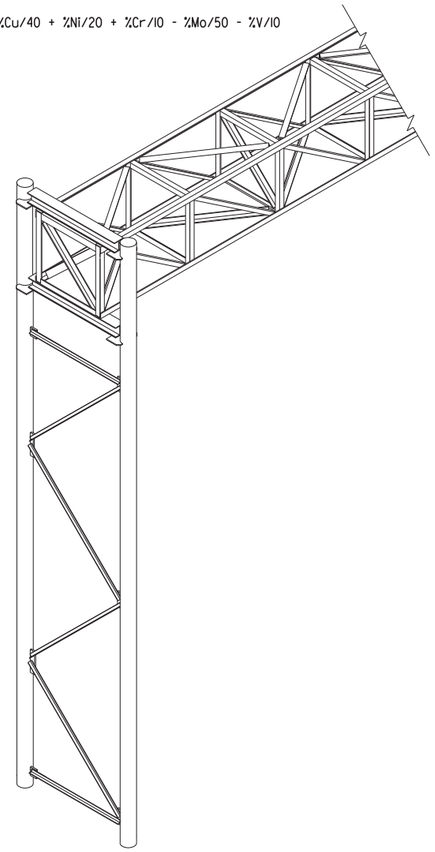
CE = %C + %Mn/6 + %Cu/40 + %Ni/20 + %Cr/10 - %Mo/50 - %V/10

HANGER VARIABLES

Max. Length of Sign = "L"	"n" Hangers	Cantilever Length "Cn"	Hanger Spacing 'Sn'
15'-0"	2 Hangers	0.21 x 'L'	0.58 x 'L'
30'-0"	3 Hangers	0.145 x 'L'	0.355 x 'L'
45'-0"	4 Hangers	0.107 x 'L'	0.262 x 'L'

Hanger spacing and cantilever length shall be rounded to the nearest inch.





ISOMETRIC VIEW

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 9235
CHARLES R. ELLIS
Charles R. Ellis
Mar 12 2021 12:21 PM
BRIDGE ENGINEER

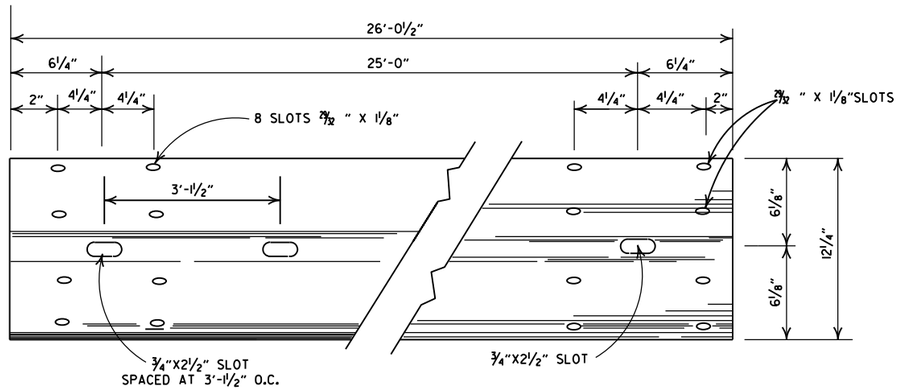
SHEET 5 OF 5
DETAILS OF 86' TO 100'
STEEL OVERHEAD SIGN STRUCTURE

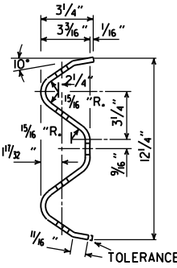
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: EOR DATE: 9/3/15
CHECKED BY: ACP DATE: 4/8/16
DESIGNED BY: ACP DATE: 1/12
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SCALE: No Scale

STR. NO. SEE TABLE DRAWING NO. 63951

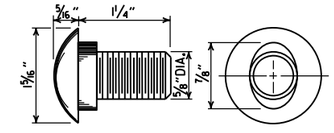
PRINT DATE: 3/11/2021



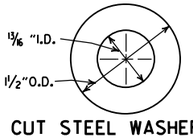


DETAILS OF W-BEAM GUARDRAIL

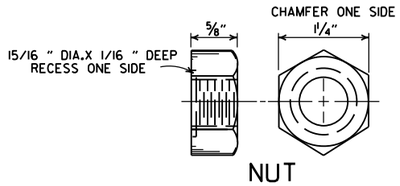
RAIL SECTION OF CLOSELY SIMILAR DIMENSIONS AND COMPARABLE STRENGTH MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.



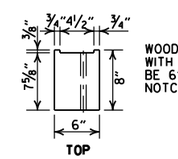
SPLICE BOLT
POST BOLT - SAME EXCEPT LENGTH



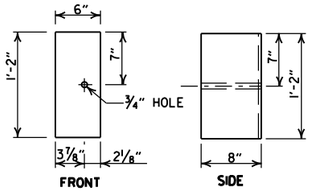
CUT STEEL WASHER



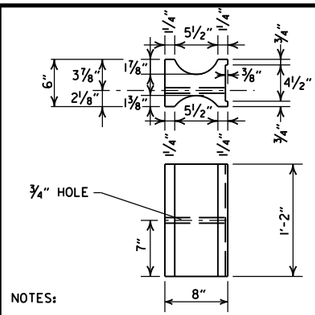
NUT



WOOD BLOCKOUT USED WITH WOOD POSTS SHALL BE 6"x8"xl'-2" WITH NO NOTCH REQUIRED.



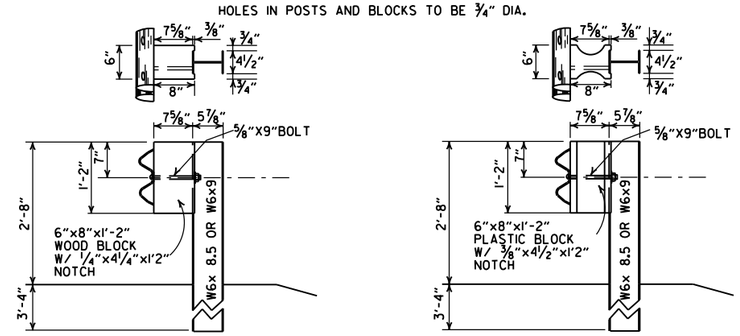
WOOD BLOCKOUT (W-BEAM)



NOTES:

1. SIMILAR SHAPED PLASTIC BLOCKOUTS MAY BE USED AS LONG AS THEY MEET REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCES.

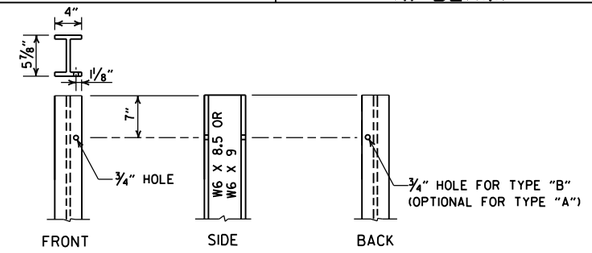
PLASTIC BLOCKOUT (W-BEAM)



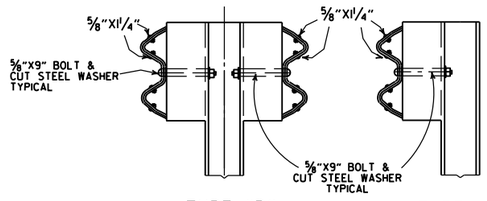
WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)



STEEL POST



TYPE "B" TYPE "A"

DETAILS OF STEEL LINE POST CONNECTIONS (W-BEAM)

-GENERAL NOTES-

ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN ¾" BEYOND IT.

WHERE W-BEAM GUARDRAIL CONTINUES, THE INTERMEDIATE SECTIONS SHALL HAVE A POST SPACING OF 6'-3" UNLESS OTHERWISE NOTED.

W-BEAM GUARDRAIL REPRESENTING INTERMEDIATE SECTIONS WILL BE MEASURED ALONG THE ROADWAY FACE FROM CENTERLINE OF POST TO CENTERLINE OF POST.

USE W-BEAM GUARDRAIL COMPONENTS OF SAME MATERIAL FOR ENTIRE JOB. FOR EXTENSIONS OR MODIFICATION OF EXISTING GUARDRAIL, W-BEAM GUARDRAIL COMPONENTS OF THE SAME TYPE AS THOSE EXISTING SHALL BE USED.

ANY BACKFILLING UNDER OR AROUND POST SHALL BE DAMP SAND THOROUGHLY TAMPED IN PLACE.

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

CONTRACTOR SHALL HAVE THE OPTION OF USING WOOD BLOCKOUTS FOR W-BEAM GUARDRAIL OR PLASTIC BLOCKOUTS, AS LONG AS BLOCKOUT USED MEETS REQUIREMENTS FOR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) FOR W-BEAM GUARDRAIL.

WOOD BLOCKOUT CONNECTIONS

PLASTIC BLOCKOUT CONNECTIONS

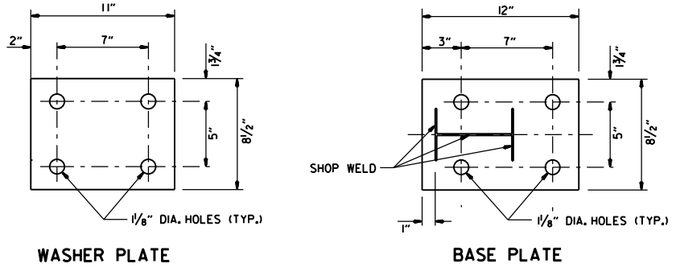
DETAILS OF WOOD LINE POST CONNECTIONS (W-BEAM)

DATE	REVISION	FILMED
11-07-19	RENUMBERED AND RENAMED	
11-16-17	REVISED GENERAL NOTES AND RAISED GUARDRAIL HEIGHT 3"	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
10-15-09	ADDED REFERENCE TO MASH	
04-10-03	REVISED GENERAL NOTES	
08-22-02	REVISED DIMENSION ON WOOD & PLASTIC BLOCKOUT CONNECTIONS & STEEL POST	
11-16-01	REVISED WOOD BLOCKOUT & DETAILS OF WOOD LINE POST CONNECTIONS	
03-30-00	REMOVED GUARDRAIL AT BRIDGE ENDS	
01-12-00	ADDED PLASTIC BLOCKOUT	
08-12-98	REV. BLOCKOUTS TO WOOD, DELETED CONC. POST & REV. GENERAL NOTE, DELETED DET. OF GUARDRAIL REPLACE. BEHIND CURB & DET. OF POST PLACE. IN SOLID ROCK, & ADDED DETAILS OF STEEL LINE POST CONN. REMOVED BACK-UP PLATE, REVISED HOLES IN STEEL POLES	
04-03-97	REMOVED "LAP IN DIRECTION OF TRAFFIC" NOTE & PLACED ARROWS ON WASHERS	
10-18-96	REVISED WOOD POST NOTE	
06-02-94	ADDED ALT. STEEL POST SIZE	
08-05-93	REVISED STEEL POST SIZE	8-5-93
10-01-92	REDRAWN & REVISED	10-1-92
08-15-91	REVISED WASHER NOTE	8-15-91
08-02-90	REV. GEN. NOTE & DEPTH OF ANC. POST IN ROCK	8-2-90
07-15-88	REVISED SECTION 3 & GENERAL NOTES	
03-04-88	REV. ANCHOR POST ,ELEV. NOTES & POST IN ROCK	780-3-4-88
10-30-87	REVISED WOOD LINE POST DETAIL	546-10-30-87
10-09-87	REDRAWN & REVISED	802-10-9-87

ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

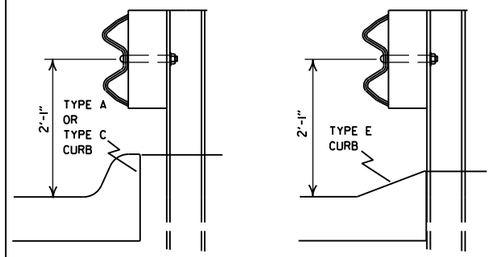
STANDARD DRAWING GR-6



WASHER PLATE

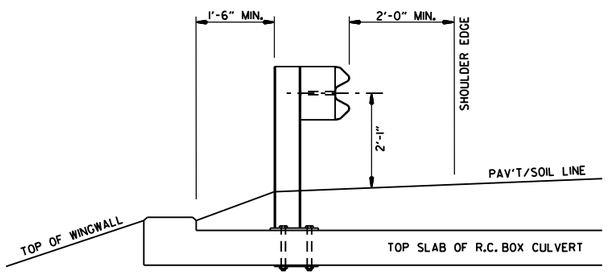
BASE PLATE

Note: Bolts, nuts, washers and plates shall be galvanized in accordance with Section 807 of the Standard Specifications.

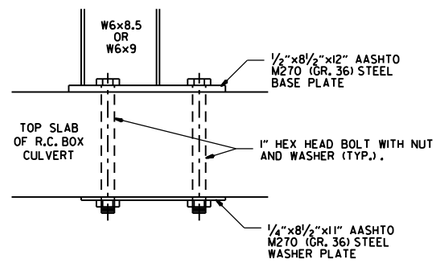


DETAIL OF GUARDRAIL PLACEMENT BEHIND CURB (W-BEAM)

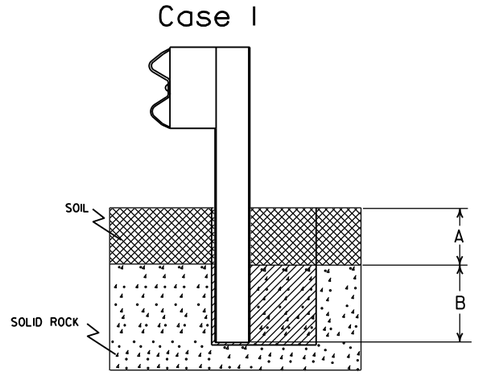
FOR DESIGN SPEEDS OF 50 MPH OR LESS ALL CURB FACES, AS SHOWN ON STD. DRWG. CG-1, MAY BE USED. FOR DESIGN SPEEDS OF 55 MPH OR MORE TYPE "E" CURB FACE SHALL BE USED.



SECTION A-A

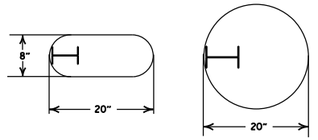


DETAIL OF CONNECTION



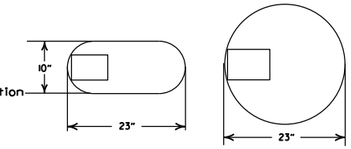
Plan View Steel Posts

Either hole configuration acceptable



Plan View Wood Posts

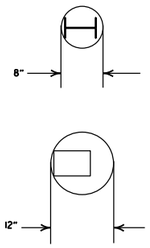
Either hole configuration acceptable



Notes: For overlying soil depths (A) ranging from 0 to 18", the depth of required drilling (B) is equal to 24".

Zone A:
Backfill according to Section 617.03(a).

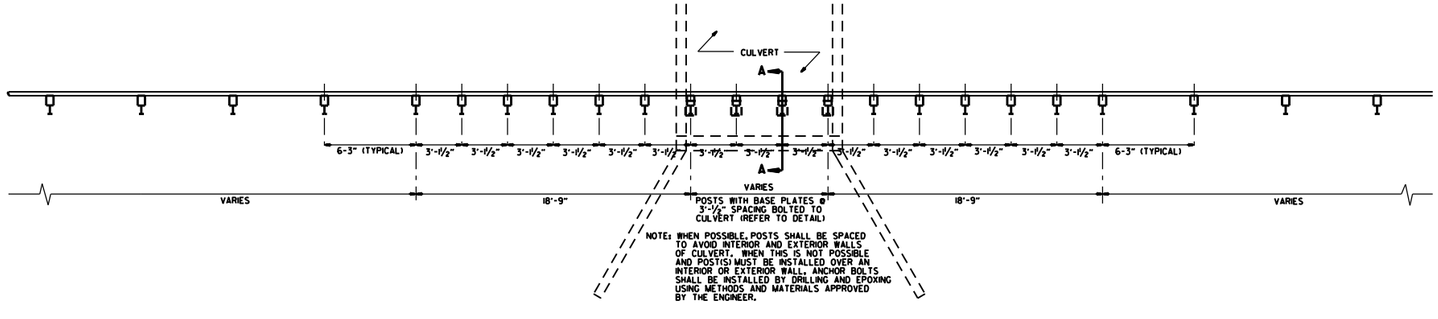
Zone B:
Backfill hole in 6" lifts with material meeting the requirements of Section 802.02(c) - Alternate gradation. Compact to 95% maximum dry density per ASTM D-698.



Notes: For overlying soil depths (A) ranging from 18" to 44", the depth of required drilling (B) is equal to either 12" or 44" minus the depth of soil whichever is less.

Zone A & B:
Backfill according to Section 617.03(a).

DETAIL OF POST PLACEMENT IN SOLID ROCK (W-BEAM)



PLAN LAYOUT OF TYPE A GUARDRAIL AT LOW-FILL CULVERTS

NOTE: THIS DETAIL IS TO BE USED ONLY WHEN THE COVER OVER THE CULVERT DOES NOT PERMIT FULL EMBEDMENT OF GUARDRAIL POSTS AS SHOWN ON STD. DWG. GR-6.

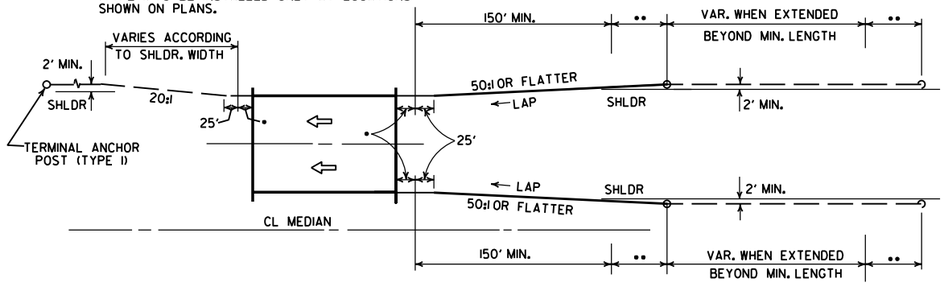
DATE	REVISION	FILMED
11-07-19	RENUMBERED, RENAMED, REVISED REFERENCE	
11-16-17	REVISED GUARDRAIL HEIGHT	
07-14-10	RAISED HEIGHT OF GUARDRAIL 1"	
04-12-07	REVISED DETAIL OF GUARDRAIL PLACEMENT BEHIND CURB	
11-10-05	ADDED GUARDRAIL PLACEMENT BEHIND CURB; REVISED DETAIL OF CONNECTION	
11-18-04	REVISED POST PLACEMENT IN ROCK & CULVERT CONNECTION DETAILS. ADDED DETAIL FOR GUARDRAIL PLACEMENT AT LOW-FILL CULVERTS	
03-30-00	REMOVED CONCRETE INSERT ANCHOR	
08-12-98	CHANGED STEEL SPACER BLOCK TO WOOD BLOCKOUT, ADDED DET. OF GUARDRAIL CONNECTION TO R.C. BOX CULV'T., DELETED DET. OF STEEL LINE POST CONN. & ADDED DET. OF GUARDRAIL PLACE. BEHIND CURB & DET. OF POSTPLACE. IN SOLID ROCK	
04-03-96	PLACED ARROWS AT CUT STEEL WASHERS	4-3-96
10-18-96	REV. ASTM REF. TO AASHTO	
11-22-95	ADDED OPTIONAL HOLES	
06-02-94	REVISED ALTERNATE POST SIZE	
08-05-93	REVISED STEEL POST SIZE	
10-01-92	REDRAWN & REVISED	10-1-92
08-02-90	DEL. WASHER ON ANCHOR ASSEMBLY	8-2-90
07-15-88	CONFORMED TO 1988 SPECS	
03-04-88	REVISED ANCHOR NOTE	
10-30-87	REVISED ANCHOR ASSEMBLY	712-10-30-87
10-30-87	REVISED PLACEMENT BEHIND CURB	547-10-30-87
10-09-87	REDRAWN & REVISED	803-10-9-87

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GUARDRAIL DETAILS

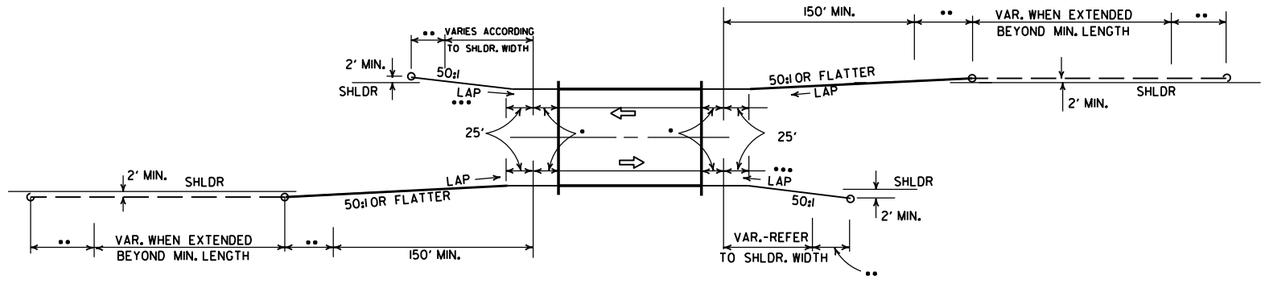
STANDARD DRAWING GR-7

NOTE: GUARDRAIL WITH GUARDRAIL TERMINAL (TYPE 1) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

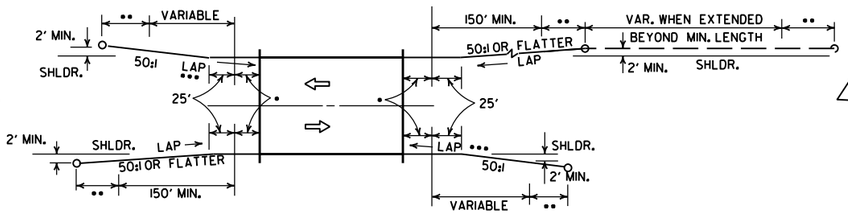
••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

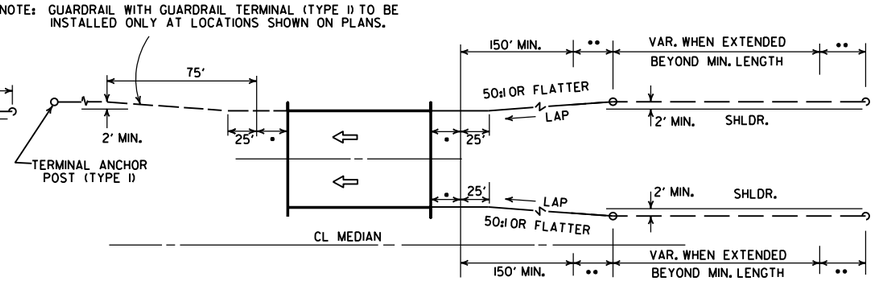
METHODS OF INSTALLATION OF GUARDRAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



TWO-WAY TRAFFIC

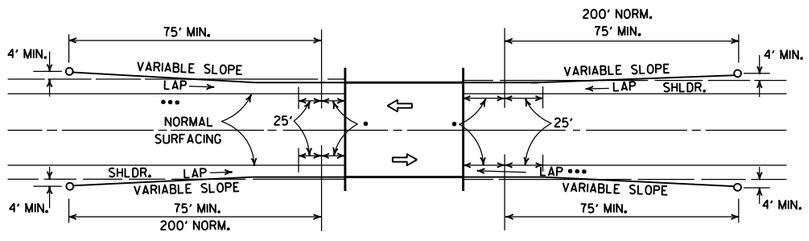
NOTE: GUARDRAIL WITH GUARDRAIL TERMINAL (TYPE 1) TO BE INSTALLED ONLY AT LOCATIONS SHOWN ON PLANS.



ONE-WAY TRAFFIC

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

••• LAP OF GUARDRAIL SHALL BE AS SHOWN FOR A DISTANCE OF UP TO 200'. CHANGE TO LAP IN DIRECTION OF TRAVEL.



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

LEGEND

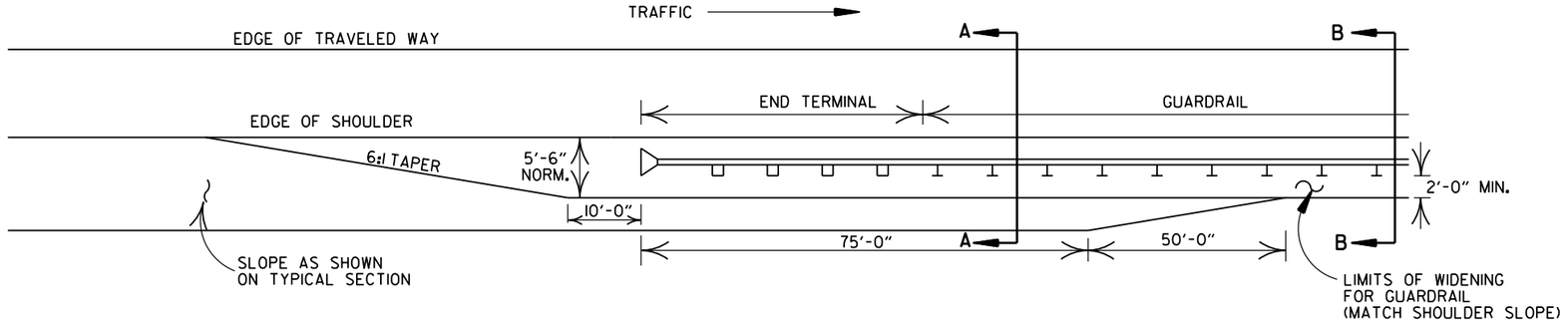
- • THRIE BEAM GUARDRAIL TERMINAL
- •• GUARDRAIL TERMINAL (TYPE 2)

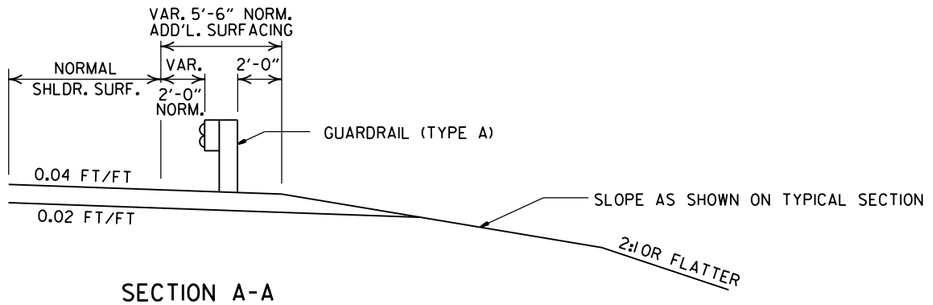
DATE	REVISION	DATE FILM
11-07-19	RENUMBERED AND RENAMED	
4-17-08	REVISED LAYOUTS	
11-10-05	REMOVED GUARDRAIL NOTES AND DETAILS	
11-16-01	DELETED NOTE-METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERM. (TY. 1)	
1-12-00	ADDED CONSTRUCTION NOTE	1-12-00
6-26-97	REVISED LAYOUT	
10-1-92	REDRAWN & REVISED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

ARKANSAS STATE HIGHWAY COMMISSION

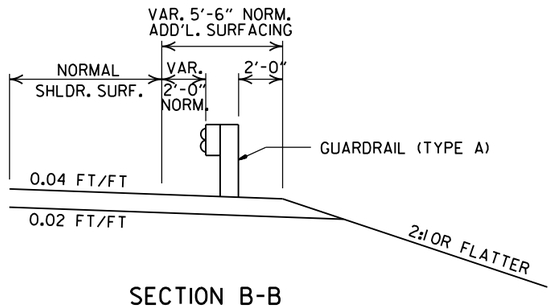
GUARDRAIL DETAILS

STANDARD DRAWING GR-8



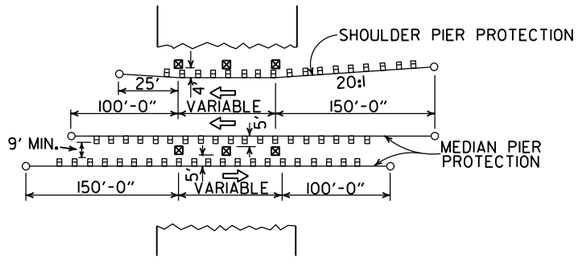


SECTION A-A



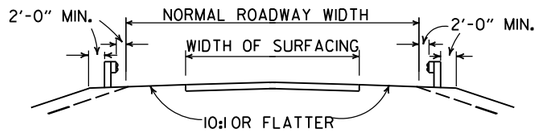
SECTION B-B

DETAILS OF WIDENING FOR GUARDRAIL

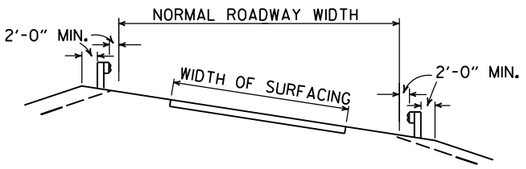


METHOD OF INSTALLATION OF GUARDRAIL AT FIXED OBSTACLE

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



SECTION ON TANGENT



SECTION ON CURVE

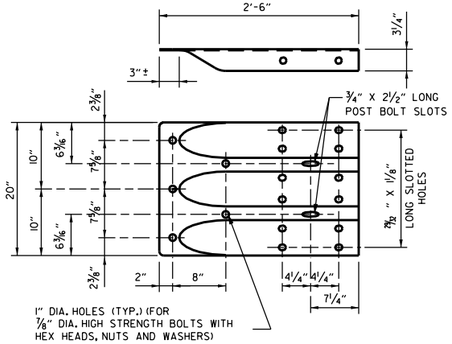
DETAILS SHOWING POSITION OF GUARDRAIL ON HIGHWAY

DATE	REVISION	DATE FILM
11-07-19	RENUMBERED AND RENAMED	
4-17-08	MINOR REVISION	
11-10-05	DRAWN	

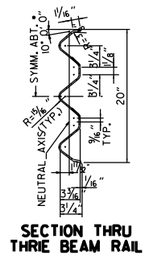
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

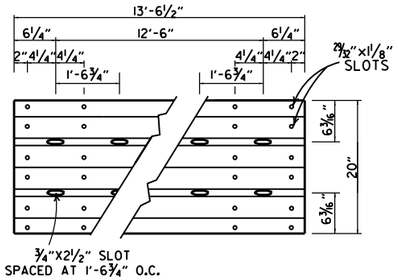
STANDARD DRAWING GR-9



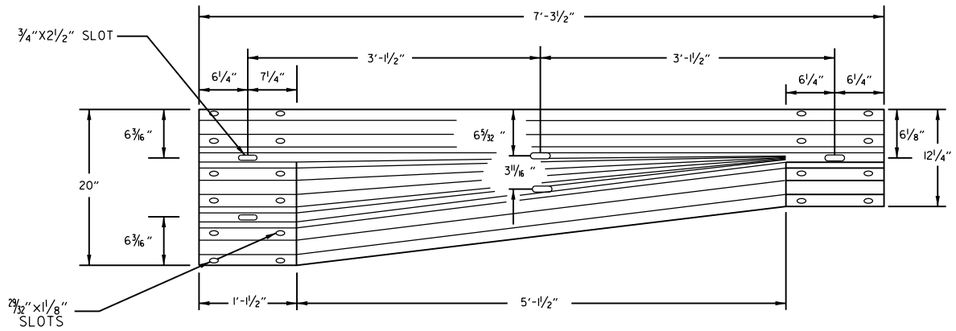
SPECIAL END SHOE



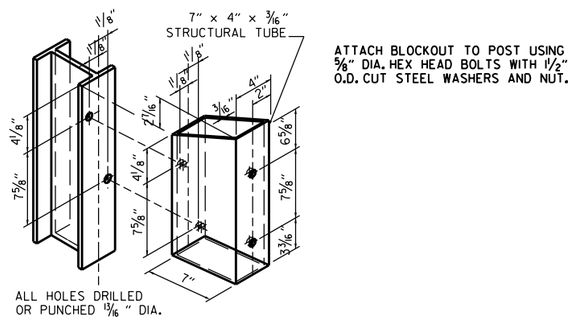
SECTION THRU THRIE BEAM RAIL



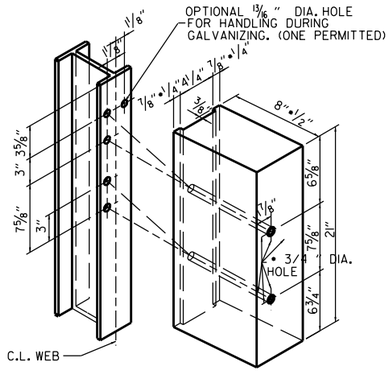
THRIE BEAM RAIL



TRANSITION SECTION



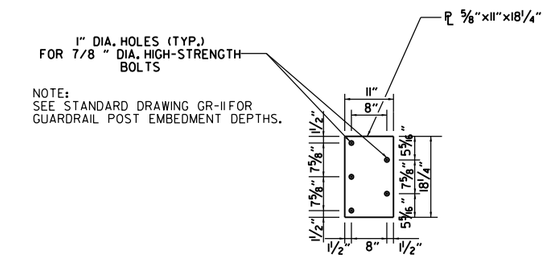
STRUCTURAL STEEL TUBING BLOCKOUT DETAIL



ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

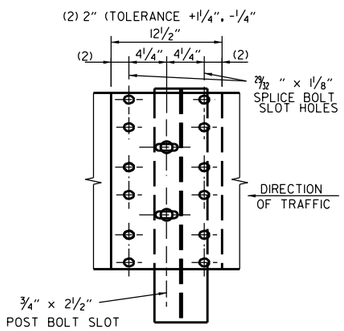
HOLE PUNCHING DETAIL FOR STEEL POST & WOOD OR PLASTIC BLOCKOUTS

NOTE: BLOCKS SHALL BE THE SAME TYPE THROUGHOUT THE PROJECT LIMITS.



CONNECTOR PLATE

CONNECTOR PLATE SHALL BE AASHTO M270, GR. 36 AND SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING SHALL CONFORM TO SUBSECTION 807.19 OF THE STANDARD SPECIFICATIONS. CONNECTOR PLATE TO BE BOLTED TO SPECIAL END SHOE USING ⅞" DIA. HIGH STRENGTH BOLTS, WITH THE HEADS PLACED ON THE TRAFFIC FACE. WASHERS SHALL BE USED UNDER THE HEAD AND NUT. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND SHALL CONFORM TO SUBSECTION 807.06.



THRIE BEAM RAIL SPLICE AT POST

GENERAL NOTES:

THE THRIE BEAM RAIL, SPECIAL END SHOE, AND THE TRANSITION SECTION SHALL BE MADE OF STEEL AND SHALL BE 12 GAGE. ZINC COATING SHALL BE TYPE 1.

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

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

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

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

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

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

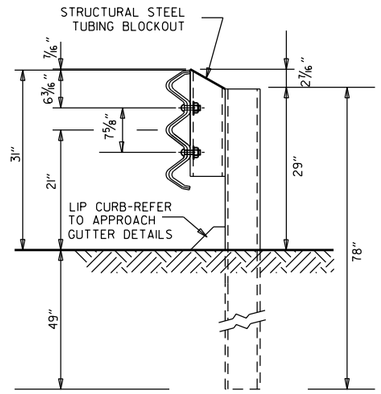
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1 STRUCTURAL OR BETTER 9.7 f (1400 f) OR NO. 1 1350 f SOUTHERN PINE.

DATE	REVISION	FILMED
11-07-19	RENAMED AND REVISED REFERENCES	
11-16-17	REVISED TRANSITION SECTION, GUARD RAIL HEIGHT, AND GENERAL NOTES; MOVED THRIE BEAM GUARD RAIL CONNECTIONS AT BRIDGES ENDS TO STD. DRWG. GR-12	
07-14-10	RAISED HEIGHT OF W-BEAM 1"	
11-29-07	ADDED PLASTIC BLOCKOUTS	
11-10-05	ADDED NOTE FOR ATTACHING STEEL BLOCKOUT	
11-18-04	REVISED GENERAL NOTES	
10-9-03	REVISED GENERAL NOTES	
04-10-03	REVISED GENERAL NOTES	
08-22-02	REVISED NOTE (2)	
06-29-00	MOVED DIMENSION LINES	
05-18-00	ADDED NOTE	
03-30-00	DRAWN & ISSUED	

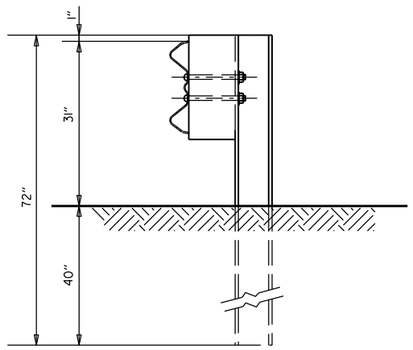
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

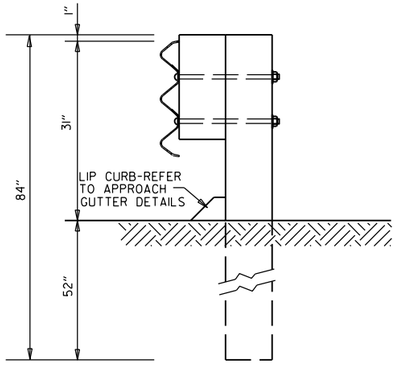
STANDARD DRAWING GR-10



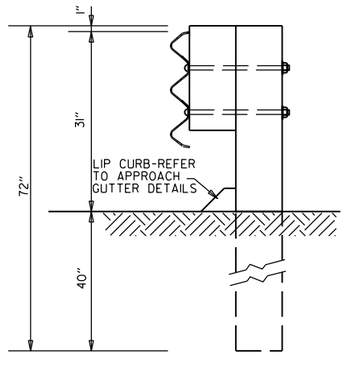
THRIE BEAM RAIL WITH STEEL TUBING BLOCKOUT
AND STEEL POST
POSTS 1-7



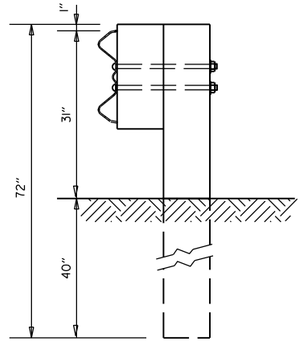
W-BEAM TO THRIE BEAM TRANSITION RAIL
WITH WOOD OR PLASTIC BLOCKOUT AND STEEL POST
POST 8



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



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



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

GENERAL NOTES:

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

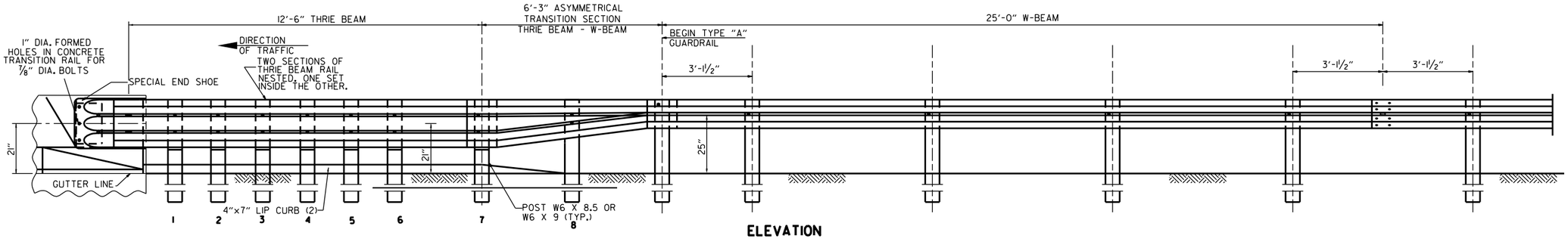
WOOD POSTS & WOOD BLOCKS SHALL BE EITHER DENSE NO. 1STRUCTURAL OR BETTER 9.7f (1400 f) OR NO.1 1350 f SOUTHERN PINE.

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

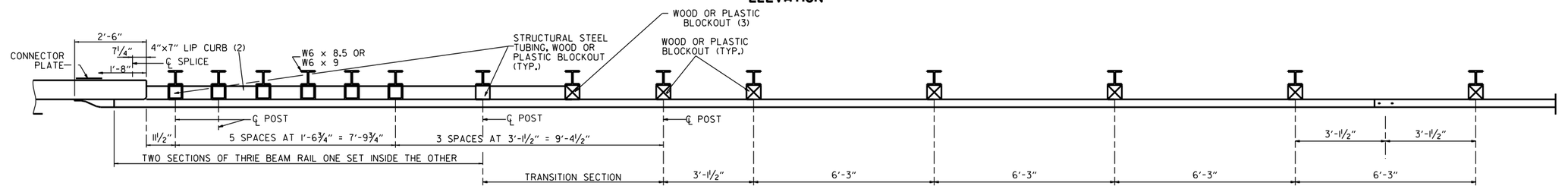
ARKANSAS STATE HIGHWAY COMMISSION

GUARDRAIL DETAILS

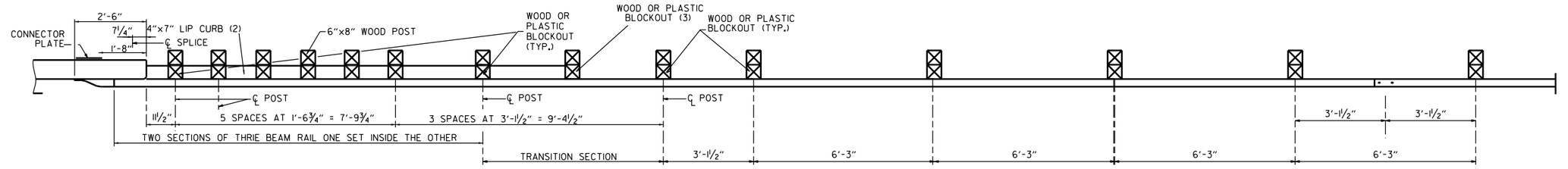
STANDARD DRAWING GR-11



ELEVATION



PLAN



PLAN

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

THRIE BEAM GUARDRAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

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

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

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

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

REFER TO STD. DRWG. GR-11 FOR POST DETAILS.

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

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

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

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

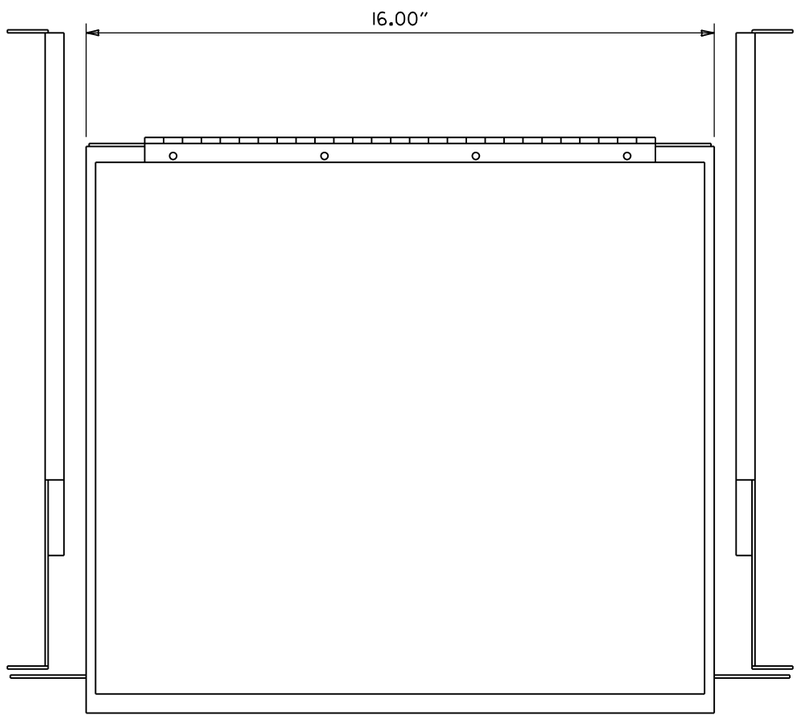
DATE	REVISION	FILMED
05-14-20	REVISED NOTES	
11-07-19	RENAMED & REVISED REFERENCES	
11-16-17	RE-DRAWN FROM STD. DWG. GR-10 & ISSUED	

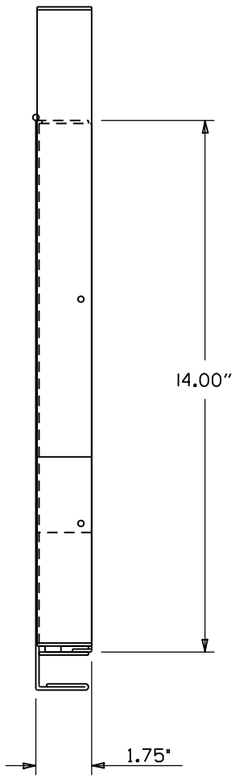
ARKANSAS STATE HIGHWAY COMMISSION

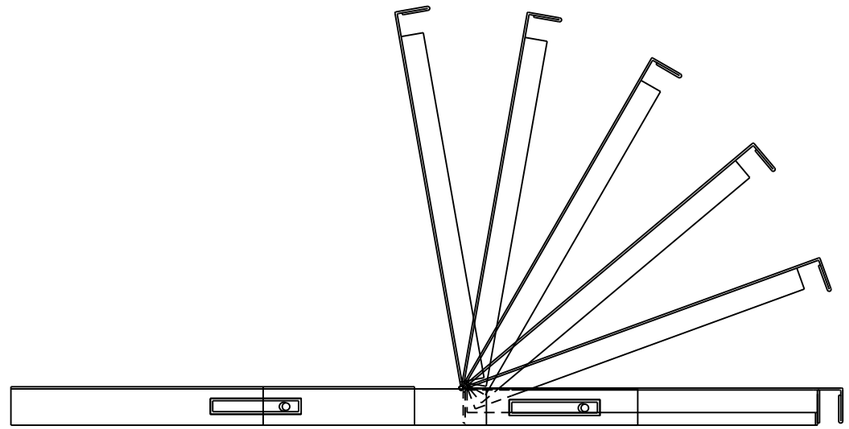
GUARDRAIL DETAILS

STANDARD DRAWING GR-12

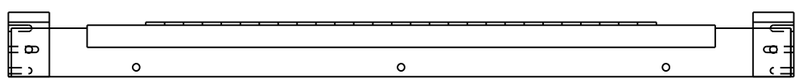
DRAWER PLAN VIEW



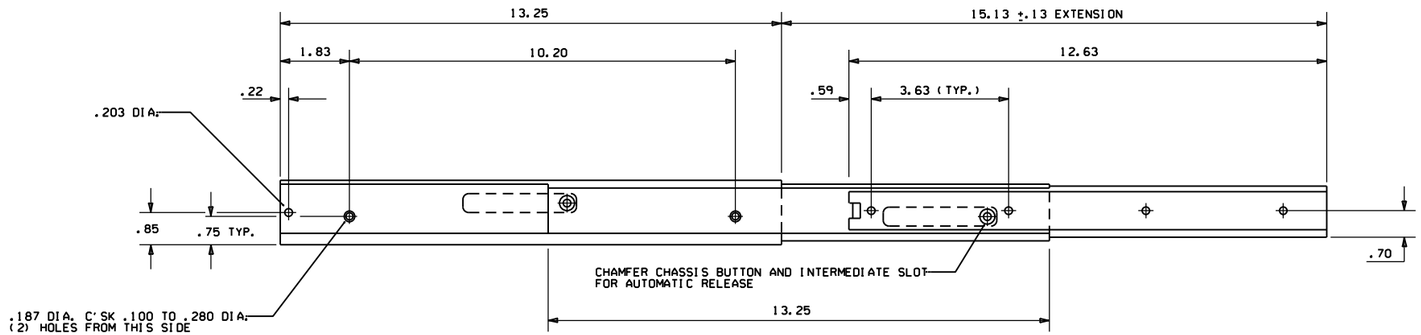




NOTES:
1. RIGHT HAND SLIDE SHOWN, LEFT SLIDE OPPOSITE.
2. GENERAL DEVICES (CC3002-99-0102) OR EQUAL AND CONTAINS (1) RIGHT HAND SLIDE ASSEMBLY, (1) LEFT HAND SLIDE ASSEMBLY.
3. ALL HARDWARE NECESSARY TO FASTEN SLIDE ASSEMBLY TO UNDERSIDE OF CONTROLLER SHELF SHALL BE INCLUDED.



FRONT VIEW



RIGHT SIDE ASSEMBLY

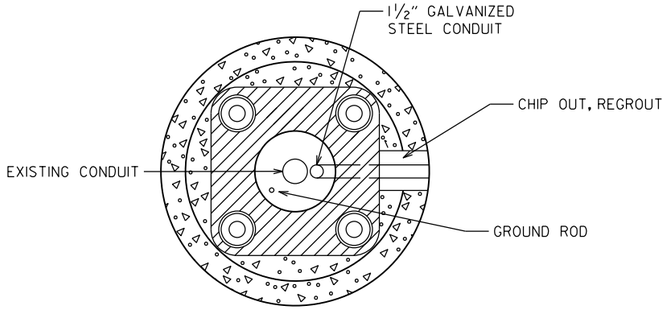
DATE	REVISION	DATE FILM
9-12-13	ISSUED AS STANDARD DRAWING	
6-15-05	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

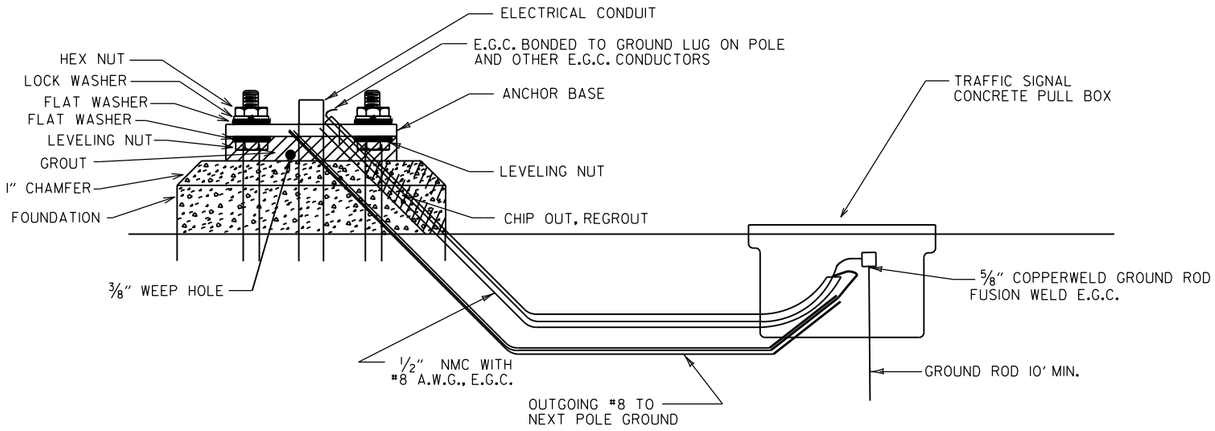
CONTROLLER CABINET UTILITY DRAWER

STANDARD DRAWING SD-5

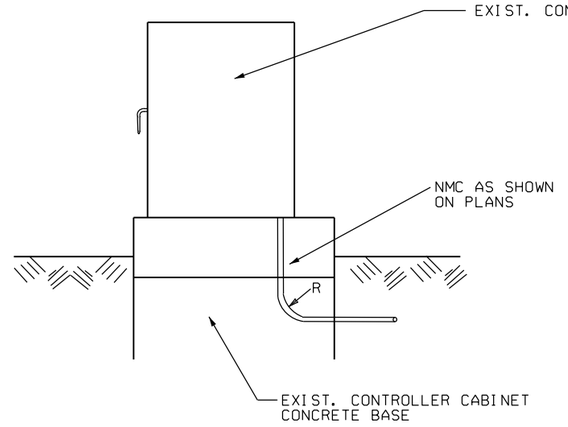
CONDUIT ENTRY TO EXISTING POLE BASE



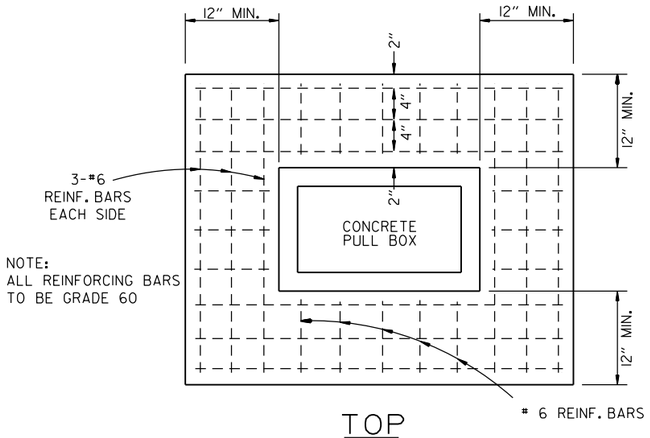
ANCHOR BASE



CONDUIT ENTRY TO EXISTING CONTROLLER CABINET

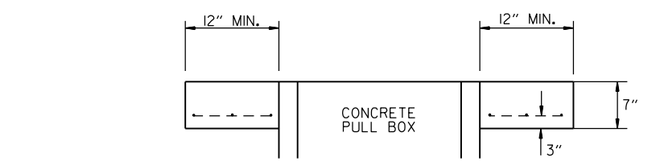


NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.



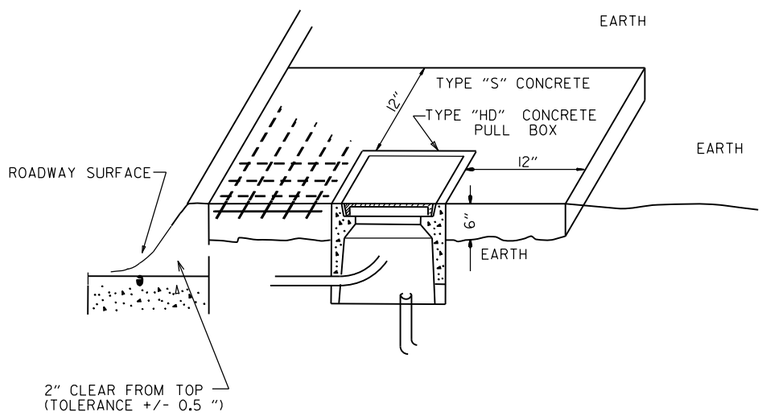
TOP

NOTE:
ALL REINFORCING BARS TO BE GRADE 60



ELEVATION

TYPE "HD" CONCRETE PULL BOX DETAIL



NOTE:
ALL TYPE 1 AND TYPE 2 HD CONCRETE PULL BOXES ARE INSTALLED WITH AN APRON OF CONCRETE 12" WIDE AND 7" IN DEPTH. ALL PAYMENT SHALL BE INCLUDED IN THE PRICE OF THE TYPE HD CONCRETE PULL BOX. THE CONCRETE PULL BOX SHALL BE INSTALLED FLUSH TO SURROUNDING GRADE UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. THE CONCRETE SHALL BE CLASS "S". THREE #6 REINFORCING BARS IN THE APRON ON ALL SIDES OF THE CONCRETE PULL BOX IS REQUIRED IN CONCRETE.

DATE	REVISION	FILMED
11-16-17	REVISED NOTES	
09-02-15	REVISED PULL BOX DEPTH	
09-12-13	ISSUED AS STANDARD DRAWING	
05-21-09	REVISED GROUNDING	
07-31-08	ADDED & REVISED CONDUIT ENTRY	
06-23-04	REVISED CLEARANCE AT CURB ENTRY	
01-04-02	ADDED REINFORCING TO BOX APRON	
07-02-01	REVISED	
12-27-99	REVISED NOTES	
11-18-98	ISSUED	

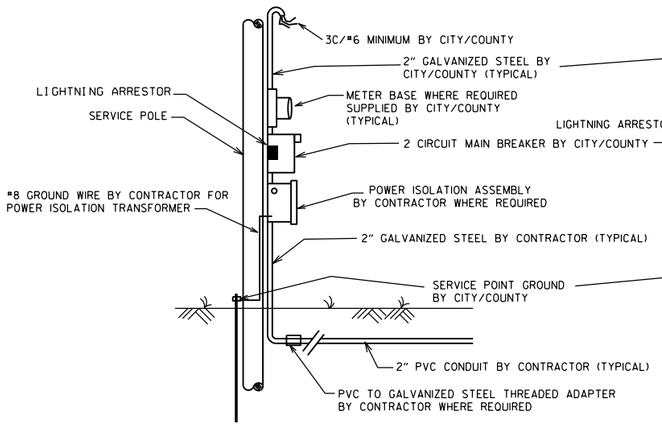
ARKANSAS STATE HIGHWAY COMMISSION

HEAVY DUTY PULL BOX

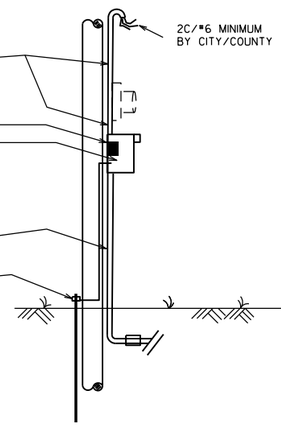
STANDARD DRAWING SD-6

MAIN BREAKER NOT NEAR CONTROLLER CABINET SECONDARY REQUIRED

WITH POWER ISOLATION ASSEMBLY



WITHOUT POWER ISOLATION ASSEMBLY



NOTES TO CONTRACTOR AND AGENCY RESPONSIBLE FOR MAINTENANCE OF THE INTERSECTION (CITY/COUNTY):

ELECTRICAL SERVICE TYPICALLY FALLS INTO TWO CATEGORIES:
MAIN BREAKER NEAR CONTROLLER CABINET; AND MAIN BREAKER NOT NEAR CONTROLLER CABINET. THE CONTRACTOR'S AND THE CITY'S/COUNTY'S RESPONSIBILITY VARIES ACCORDINGLY AS INDICATED ON THESE DETAILS.

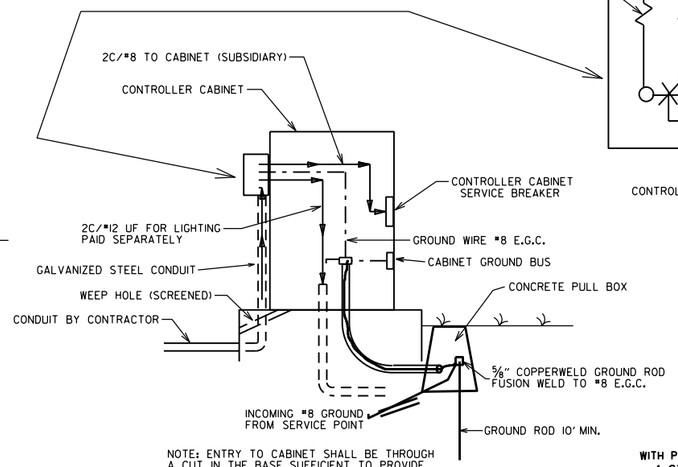
ALL SITUATIONS:
ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POINT 18" BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, LIGHTNING ARRESTOR, POWER ISOLATION ASSEMBLY WHERE REQUIRED, METER LOOP IF REQUIRED BY LOCAL UTILITY COMPANY, ELECTRICAL CONDUCTORS AND WEATHERHEAD. WHERE STREET LIGHTING IS INCLUDED AS PART OF SIGNAL INSTALLATION STREET LIGHTING CIRCUIT (2C/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT SEPARATE FROM THE CIRCUIT SERVING TRAFFIC SIGNAL. SERVICE WIRE AND WIRING FROM THE CONTROLLER TO MAIN BREAKER IS PROVIDED BY THE CONTRACTOR AS A PART OF THIS CONTRACT. WIRE AND WIRING FROM MAIN BREAKER, AND CONNECTION TO THE UTILITY IS THE RESPONSIBILITY OF THE CITY/COUNTY.

MAIN BREAKER NOT NEAR CONTROLLER CABINET:
THE MAIN BREAKER ASSEMBLY, GALVANIZED STEEL CONDUIT. WEATHERHEAD AND WIRE ABOVE MAIN BREAKER AND CONNECTION TO THE UTILITY SHALL BE PROVIDED BY CITY/COUNTY. CONTRACTOR SHALL PROVIDE AS PART OF CONTRACT SECONDARY BREAKER, CONDUIT, WIRE AND WIRING TO THE MAIN BREAKER.

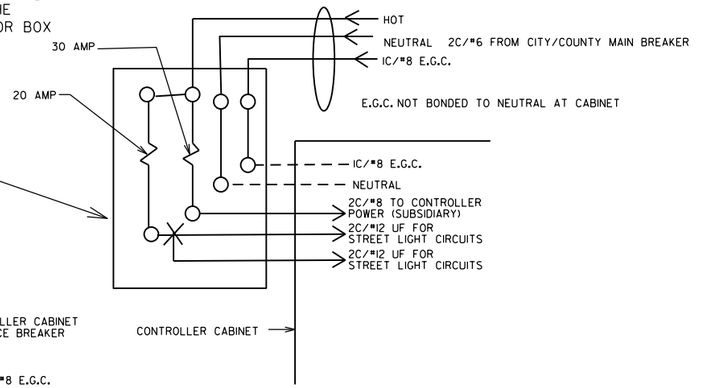
MAIN BREAKER NEAR CONTROLLER CABINET:
ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FURNISHED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP IS REQUIRED, METER BASE AND HARDWARE IS PROVIDED BY THE CITY/COUNTY AND INSTALLED BY THE CONTRACTOR.

GROUND ROD - A 10' X 5/8" GROUND ROD SHALL BE INSTALLED IN THE CONCRETE PULL BOX FOR EACH POLE AND THE CONTROLLER. PAYMENT FOR THE GROUND ROD AND 1/2" NMC SHALL BE INCLUDED IN ITEM 701. THE CONCRETE PULL BOX AND CONDUCTOR BOX SHALL BE PAID FOR SEPARATELY.

SECONDARY BREAKER BY CONTRACTOR (SUBSIDIARY)



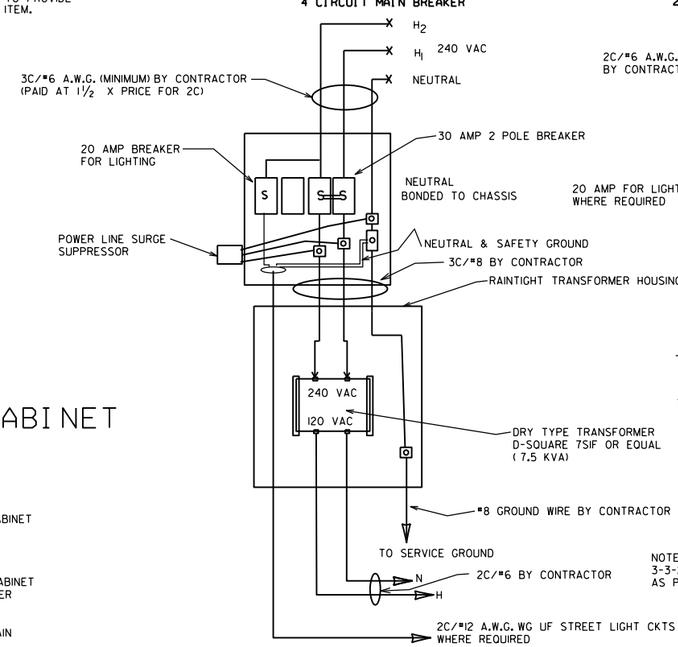
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.



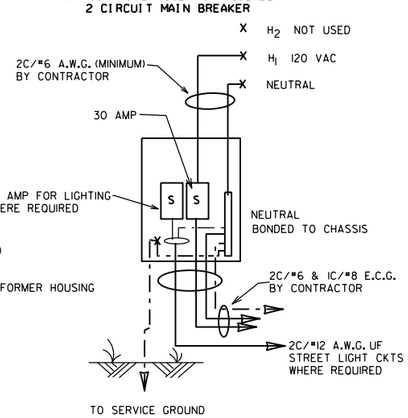
MAIN BREAKER WIRING (TYPICAL)

SERVICE GROUND IS TYPICALLY TIED TO NEUTRAL AT THE MAIN BREAKER. AS SUCH, CONTROLLER GROUND IS NOT TIED TO NEUTRAL AT SECONDARY BREAKER OR IN CONTROLLER CABINET.

WITH POWER ISOLATION ASSEMBLY
4 CIRCUIT MAIN BREAKER

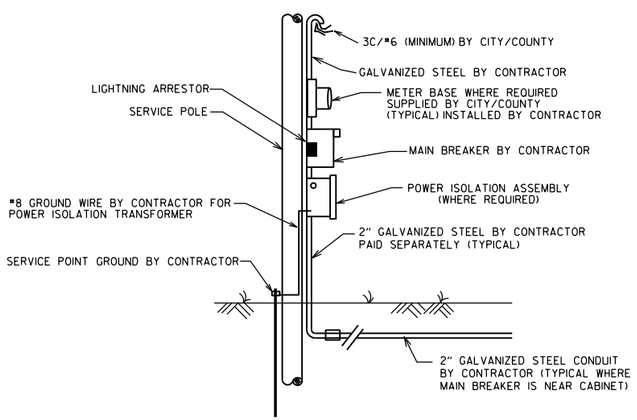


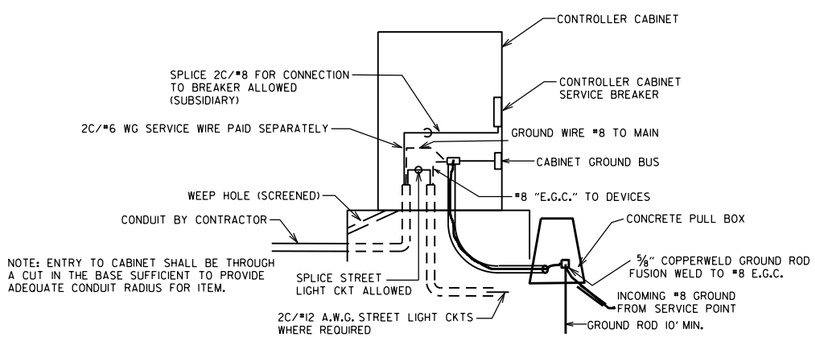
WITHOUT POWER ISOLATION ASSEMBLY
2 CIRCUIT MAIN BREAKER



NOTE: ELECTRICAL GROUND CONDUCTOR (E.C.G.) ADDED 3-3-2003, CONSISTING OF A IC/#8 A.W.G. CU GREEN WIRE AS PER NATIONAL ELECT. CODES.

MAIN BREAKER NEAR CONTROLLER CABINET SECONDARY NOT REQUIRED





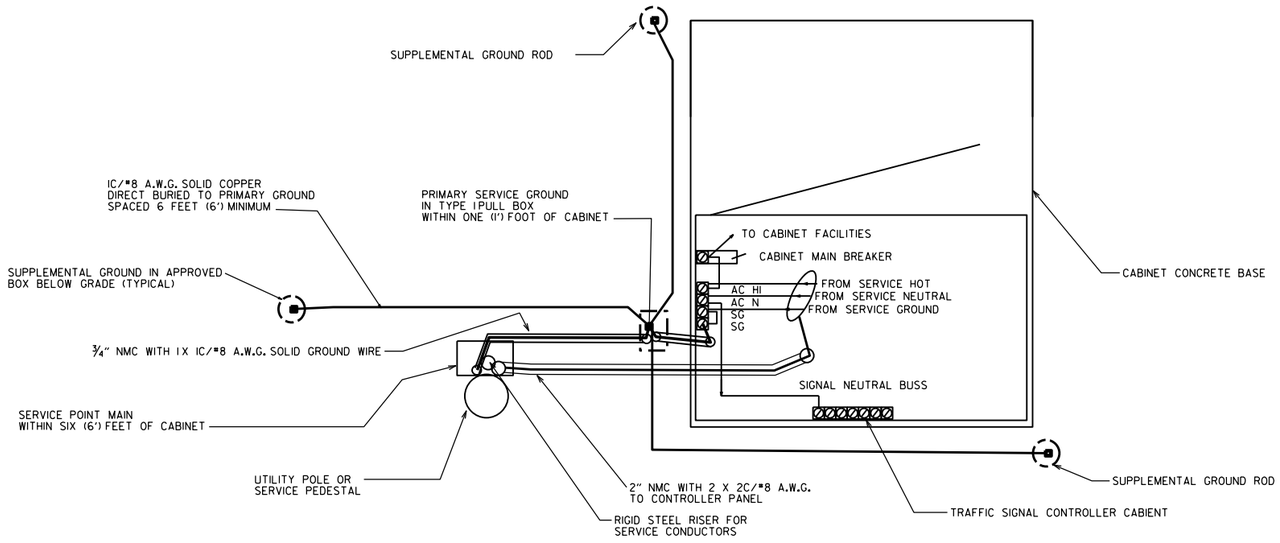
NOTE: ENTRY TO CABINET SHALL BE THROUGH A CUT IN THE BASE SUFFICIENT TO PROVIDE ADEQUATE CONDUIT RADIUS FOR ITEM.

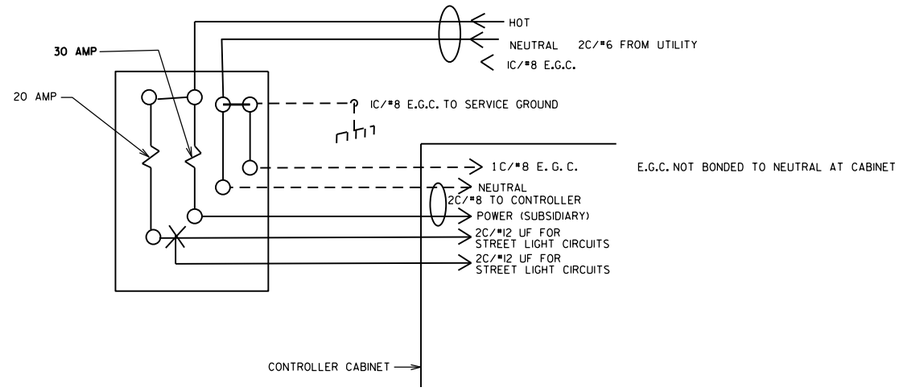
DATE	REVISION	FILMED
11-07-19	REVISED	
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
04-18-13	ADDED LIGHTNING ARRESTOR	
05-21-09	REVISED GROUNDING	
07-31-08	REVISED GROUNDING	
03-03-03	ADDED EGC NOTE	
09-26-01	REVISED	
12-27-99	REVISED	
07-28-99	REVISED	
02-05-99	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SERVICE POINT

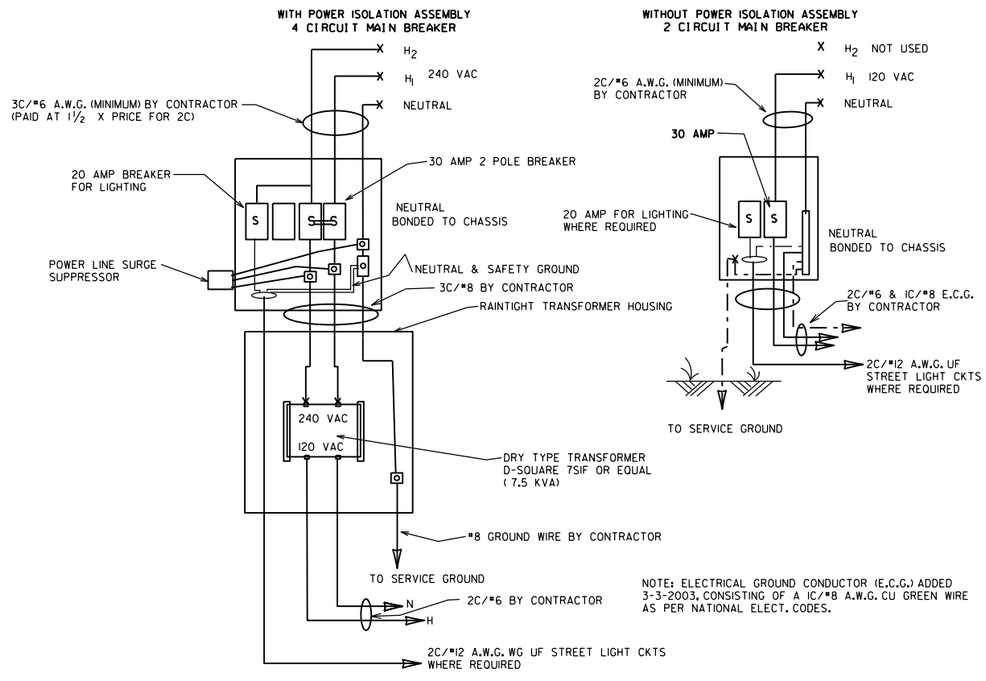
STANDARD DRAWING SD-9





MAIN BREAKER WIRING (TYPICAL)

SERVICE GROUND IS TYPICALLY TIED TO NEUTRAL AT THE MAIN BREAKER. AS SUCH, CONTROLLER GROUND IS NOT TIED TO NEUTRAL AT SECONDARY BREAKER OR IN CONTROLLER CABINET.



NOTES:

LOCATION OF SERVICE:
TO MEET THE REQUIREMENTS FOR SAFETY AND MAXIMIZE LIGHTNING PROTECTION. THE "SERVICE POINT MAIN" FROM THE UTILITY PRIMARY SERVICE POINT MUST BE WITHIN SIX (6') FEET OF THE TRAFFIC SIGNAL CONTROLLER CABINET. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE OR PEDESTAL WITH EXTERNAL RAINTIGHT BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POLE 18" BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, POWER ISOLATION ASSEMBLY WHERE REQUIRED, METER LOOP IF REQUIRED BY LOCAL UTILITY COMPANY, ELECTRICAL CONDUCTORS AND WEATHERHEAD. WHERE STREET LIGHTING IS INCLUDED AS PART OF SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT (2C/#12 A.W.G. UF RATED, TYPICAL) SHALL BE KEPT SEPARATE FROM THE CIRCUIT SERVING TRAFFIC SIGNAL. SERVICE WIRE AND WIRING FROM THE CONTROLLER TO MAIN BREAKER IS PROVIDED BY THE CONTRACTOR AS A PART OF THIS CONTRACT. WIRE AND WIRING FROM MAIN RESPONSIBILITY OF THE CITY/COUNTY.

METER LOOP:
ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FURNISHED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP IS REQUIRED, METER BASE AND HARDWARE IS PROVIDED BY THE CITY/COUNTY AND ISTALLED BY THE CONTRACTOR.

SUPPLEMENT GROUND RODS:
SUPPLEMENT GROUND RODS ARE FUSION WELDED TO IC/#8 A.W.G. SOLID COPPER GROUND WIRE. ATTACHMENT TO PRIMARY GROUND MAY BE AN APPROVED CLAMP. GROUND RODS ARE LOCATED IN A BOX APPROVED BY THE ENGINEER MEETING THE SAME LOADING REQUIREMENTS AS SECTION 711 CONCRETE PULL BOX OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION TO DIMENSIONS. THE CONCRETE PULL BOX MAY BE EITHER ROUND OR SQUARE APPROXIMATELY SIX (6") INCHES MINIMUM INSIDE DIMENSIONS AND SIX (6") INCHES DEPTH. (STRONGWELL PC0608BA06 WITH PC0608CA00 LID OR EQUAL).

DATE	REVISION	FILMED
11-07-19	REVISED NOTES	
11-16-17	REVISED NOTES	
09-12-13	ISSUED AS STANDARD DRAWING	
01-17-08	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

SERVICE POINT INSTALLATION WITH SUPPLEMENT GROUNDING ARRAY

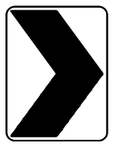
STANDARD DRAWING SD-12



R1-1
30"X30"



W1-3
30"X30"
(LT. OR RT.)



W1-8
18"X24"



W2-5
30"X30"



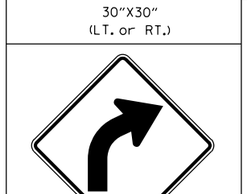
W3-1
36"X36"



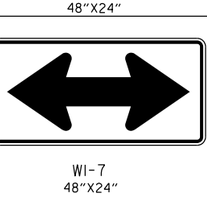
W5-1
36"X36"



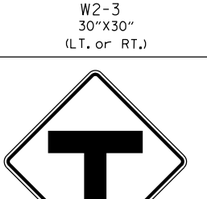
M6-3
21"X15"



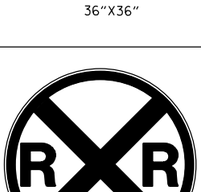
R1-2
36"X36"X36"



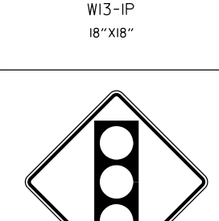
W1-4
30"X30"
(LT. or RT.)



W2-1
30"X30"



S1-1
36"X36"



W3-2
36"X36"

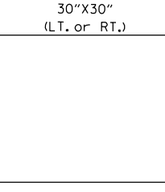


County
Route Marker
M1-6
24"X24"

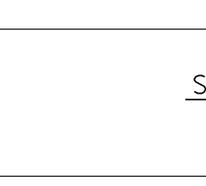
NOTE: REFLECTORIZED YELLOW LEGEND (COUNTY NAME, ROUTE LETTER & NUMBER) & BORDER ON A BLUE BACKGROUND.



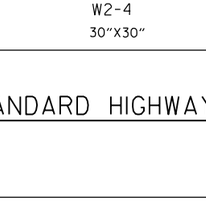
M6-4
21"X15"



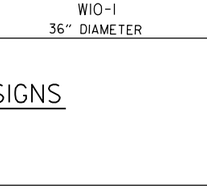
R2-1
24"X30"



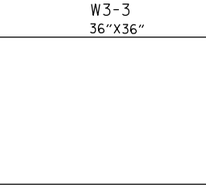
W1-5
30"X30"
(LT. or RT.)



W2-2
30"X30"

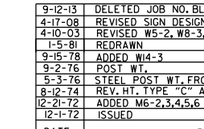


W5-2
36"X36"



W8-3
36"X36"

R1-3P
18"X6"



M6-5
21"X15"

W1-1
30"X30"
(LT. or RT.)

W1-6
48"X24"

W1-7
48"X24"

W2-3
30"X30"
(LT. or RT.)

W5-3
36"X36"

W13-1P
18"X18"

M6-1
21"X15"

NOTE: ALL M6 SIGNS TO BE MADE WITH REFLECTORIZED YELLOW ARROW & BORDER WITH BLUE BACKGROUND.

M6-6
21"X15"

W1-2
30"X30"
(LT. or RT.)

W2-4
30"X30"

W10-1
36" DIAMETER

W3-3
36"X36"

M6-2
21"X15"

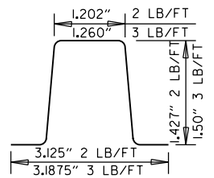
S4-3P
24"X8"

S4-2P
24"X10"

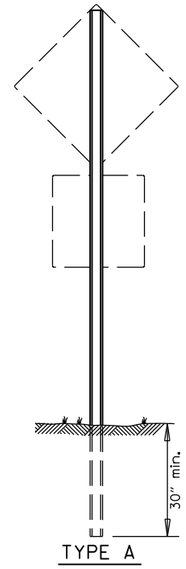
OM-3
12"X36"
(LT. or RT.)

MINIMUM DIMENSIONS SHOWN

SUPPORT SECTION



(U-CHANNEL)
STANDARD SUPPORT
ASSEMBLIES



TYPE A

NOTE: LENGTH OF SIGN POSTS SHALL BE DETERMINED SO AS TO PROVIDE FOR MINIMUM VERTICAL CLEARANCES AS CALLED FOR IN THE SPECIFICATIONS PLUS A MINIMUM VERTICAL PENETRATION OF 30" IN THE SOIL.

TYPE B

TYPE C

MINIMUM WEIGHT

TYPE A & B = 3 LBS./FT.
TYPE C = 2 LBS./FT.

STANDARD HIGHWAY SIGNS

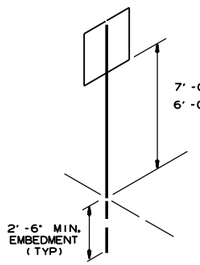
DATE	REVISION	DATE FILMED
9-12-13	DELETED JOB NO. BLOCK; REVISED RI-3 TO RI-3P	
4-17-08	REVISED SIGN DESIGNATION - W3-1 & W3-2	
4-10-03	REVISED W5-2, W8-3, OM-3; ADDED WI-8	
1-5-81	REDRAWN	960-1-15-81
9-15-78	ADDED WI4-3	877-9-15-78
9-2-76	POST WT.	623-9-3-76
5-3-76	STEEL POST WT. FROM 2#-3#; ADDED S4-2 & S4-3	504-5-3-76
8-12-74	REV. HT. TYPE "C" ASSEMBLY	500-8-21-74
12-21-72	ADDED M6-2,3,4,5,6	500-12-21-72
12-1-72	ISSUED	562-12-1-72

SUPPORT ASSEMBLIES

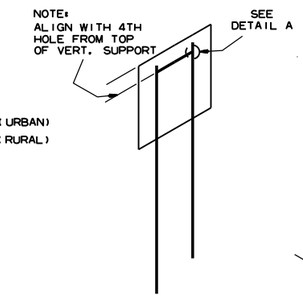
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD HIGHWAY SIGNS
AND SUPPORT ASSEMBLIES

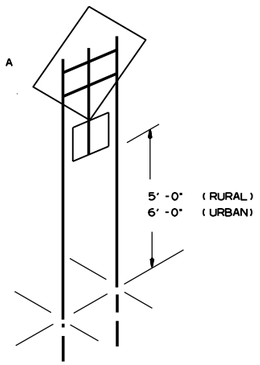
STANDARD DRAWING SHS-1



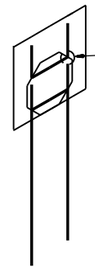
U-1



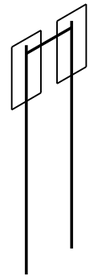
U-2



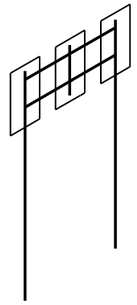
U-2 (A)



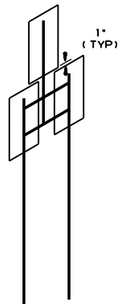
U-2 (B)



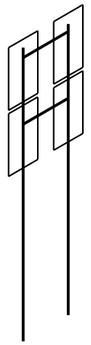
U-2 (1)



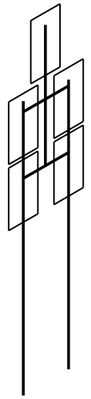
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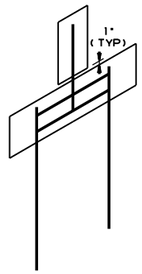
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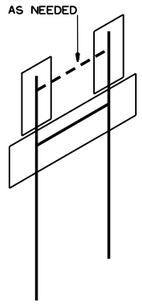
U-2 (4)



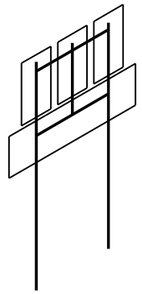
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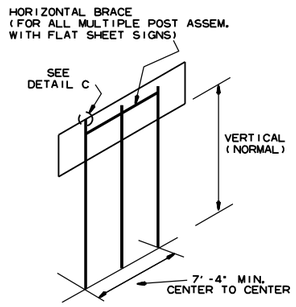
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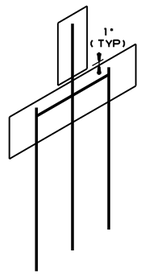
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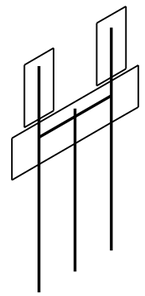
U-2 (8)



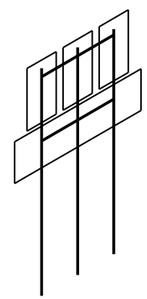
U-3



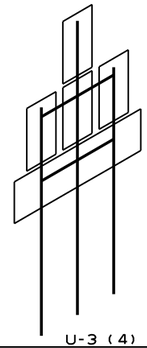
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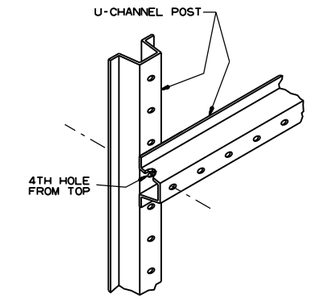
U-3 (2)



U-3 (3)

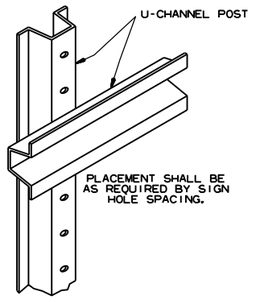


U-3 (4)



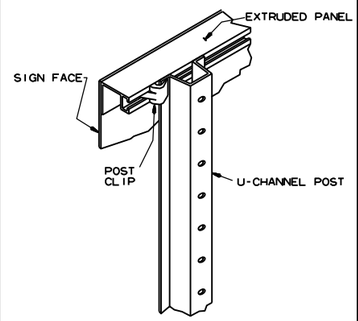
DETAIL A

SHOWING HORIZONTAL BRACE



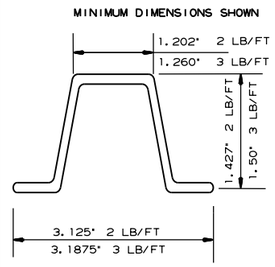
DETAIL B

SHOWING BACK-TO-BACK INSTALLATION



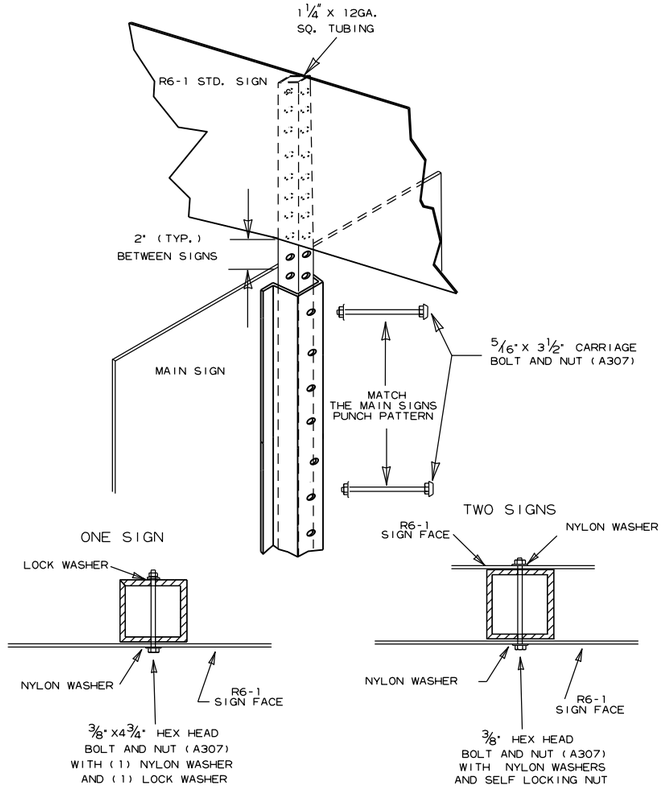
DETAIL C

SHOWING GUIDE SIGN MOUNTING WITH EXTRUDED PANELS



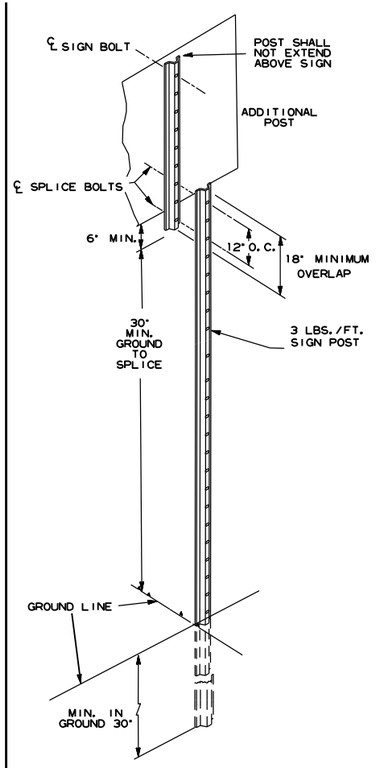
DETAIL C

U-CHANNEL POST



DETAIL E

R6-1 EXTENSION FOR U-CHANNEL POST



DETAIL F

DETAIL OF SPLICES

NOTES:

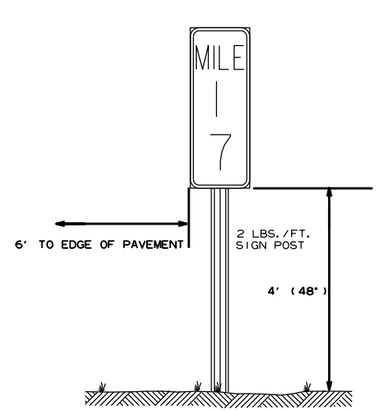
SIGNS AT LEAST 8' IN LENGTH MAY BE INSTALLED ON THREE 3 LB. POST. IN NO CASE SHALL THERE BE MORE THAN TWO 3 LB. POSTS WITHIN A 7' PATH.

SPLICES NECESSARY TO ATTAIN PROPER MOUNTING HEIGHT SHALL BE AS SHOWN IN DETAIL (F).

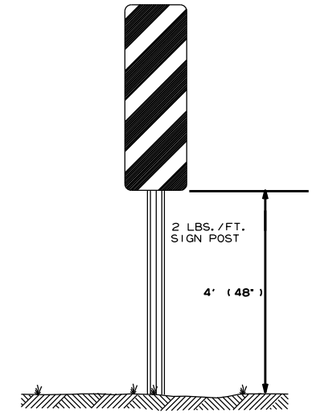
NORMAL INSTALLATIONS WILL REQUIRE 5/16" DIA. CARRIAGE BOLTS TO MOUNT SIGNS TO POST AND TO ASSEMBLE THE VARIOUS POST SUPPORTS.

ALL SIGN POSTS SHALL BE PLUMB.

THE POST FOR "TYPE U" SUPPORTS SHALL BE HOT DIP GALVANIZED.



TYPICAL MILE MARKER INSTALLATION



TYPICAL OM-3 INSTALLATION AT EDGE OF OBSTRUCTION

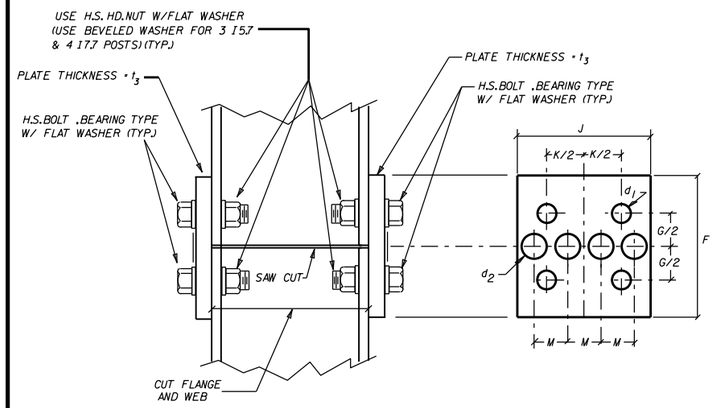
DATE	REVISION	FILMED
7-25-19	REVISED CARRIAGE BOLT WITH MATERIAL REQUIREMENT	
2-27-14	REVISED NOTES.	
9-12-13	REVISED U-2(3), U-2(6), U-3(1), DETAIL D; ADDED DETAILS E & F; ADDED TYPICAL MARKERS	
10-9-03	REMOVED ROUND POST & REVISED SPACING	
10-12-95	MOVED UPPER SPLICE	
6-8-95	REVISED SPLICE DETAIL	6-8-95
2-2-95	REDRAWN	2-2-95

ARKANSAS STATE HIGHWAY COMMISSION

U-CHANNEL POST ASSEMBLIES

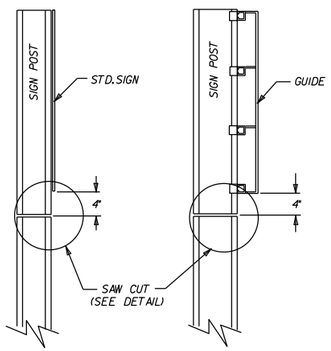
STANDARD DRAWING SHS-2

POST SIZE	BASE CONNECTION DATA											FUSE PLATE DATA									
	BOLT SIZE	BOLT TORQUE (INCH/LBS)	A	B	C	D	E	t_1	t_2	W	R	F	G		J	K	M	d_1	d_2	t_3	BOLT SIZE	WT.OF EACH FUSE PLATE LBS.
W 6X9												4¼"	2"		4"	2¼"	1"	9/16"	¾"	¼"	½" x 1½"	1.01
W 6X12	⅝" x 2¾"	450"-680"	5"	2"	1¼"	2¾"	1⅛"	¾"	½"	¼"	11/32"											
W 6X15												5"	2½"		6"	3½"	1½"	11/16"	1¼"	⅜"	⅝"x 2¼"	2.51
W 8X18												5"	2½"		5¼"	2¾"	1¼"	13/16"	1¼"	⅜"	¾" x 2¼"	2.26
W 8X21												5½"	2½"		5¼"	2¾"	1¼"	13/16"	1"	½"	¾" x 2¼"	3.35
W 10X22	¾" x 3½"	750"-1050"	6"	2¼"	1⅜"	3½"	1¼"	1"	¾"	5/16"	13/32"	6"	3"		5¾"	2¾"	1⅜"	13/16"	1⅛"	½"	¾" x 2¼"	4.03
W 10X26																						
W 12X26												6"	3"		6½"	3½"	1⅝"	13/16"	1⅜"	½"	¾" x 2¼"	4.47



NOTE: USE H.S.HEX HEAD BOLTS,HEX HEAD NUTS AND BEVEL OR FLAT WASHERS (WHERE REQ.) UNDER NUTS. ALL HOLES SHALL BE DRILLED.ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS.HOWEVER FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM-A36, ASTM-A441, ASTM-572 GRADE 50, OR ASTM-A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.

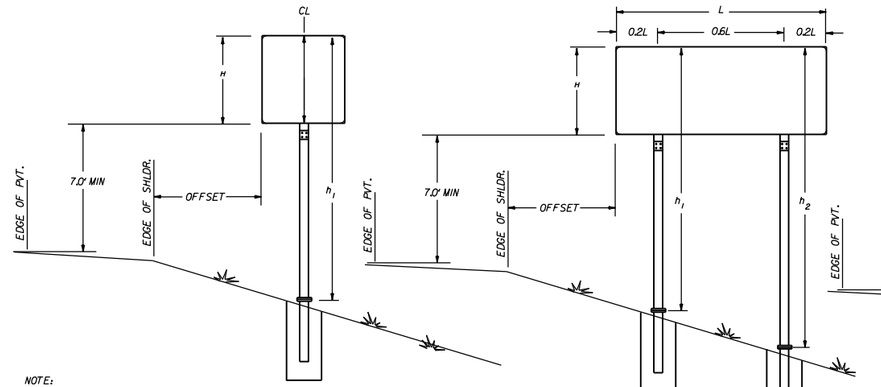
NOTE: BOLT HOLES,USED IN THE MOUNTING OF STANDARD SIGNS SHALL BE LOCATED IN THE FLANGE ADJACENT TO THE NEAR EDGE OF PAVEMENT FOR SINGLE POST ASSEMBLIES AND IN THE OUTSIDE FLANGES FOR MULTIPLE POST ASSEMBLIES.



NOTE: POST SHALL BE SAW CUT AFTER GALVANIZING AND THE CUT SURFACE TREATED,AFTER PLATE IS INSTALLED AND ALL BOLTS FULLY TIGHTENED,WITH AN APPROVED ZINC SOLDER MEETING THE FEDERAL SPEC.O-G-93 (STICK ONLY).

STANDARD SIGNS GUIDE SIGNS

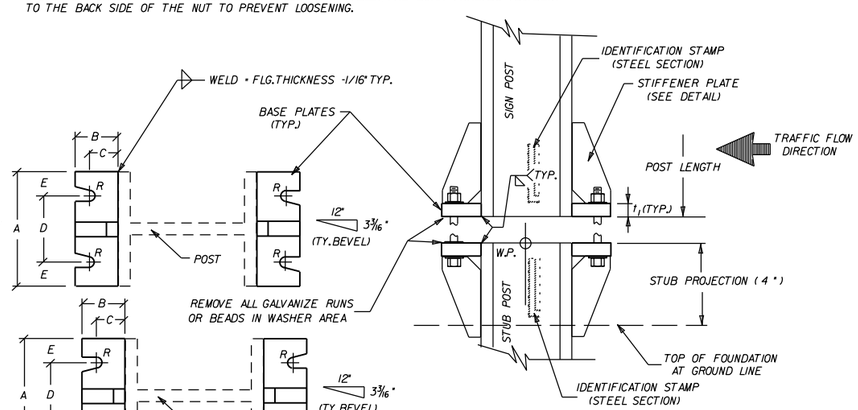
FUSE PLATE DETAILS



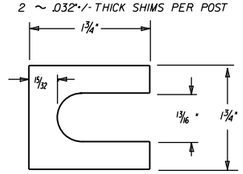
NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER

G-1 G-2 G-3

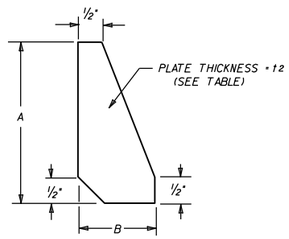
NOTE: SECTIONS SHOWN ARE FOR INSTALLATION ON THE RIGHT SHOULDER AND IN THE GORE. BOLT HOLES IN BASE PLATE ARE SLOTTED AND BEVELED AS SHOWN. USE H.S.BOLTS WITH HEX HD.,HEX NUT AND THREE FLAT WASHERS FOR EACH BOLT. SEE TABLE FOR BOLT DIA. AND TORQUE.
NOTE: ASSEMBLE SIGN POST TO STUB POST USING THE BOLTS SPEC.IN THE TABLE AND AS SHOWN IN THE ELEVATION DETAILS. THERE SHALL BE THREE FLAT WASHERS ON EACH BOLT LOCATED AS SHOWN IN THE ELEVATIONS. USE A SHIM TO PLUMB THE SIGN POST. THEN TIGHTEN THE BOLTS USING A 12" TO 15" WRENCH UNTIL THE WASHERS AND SHIMS ARE SEATED AND THE BOLT THREADS ARE CLEAR . THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE). THE BURR THREADS ADJACENT TO THE BACK SIDE OF THE NUT TO PREVENT LOOSENING.



FURNISH 2 ~ .012"+/- THICK AND 2 ~ .032"+/- THICK SHIMS PER POST



SHIM DETAIL



STIFFENER PLATE DETAIL

GENERAL NOTES

TIGHTEN THE HIGH STRENGTH BOLTS IN THE BASE CONNECTION ONLY TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

BASE PLATES AND STIFFENER PLATES SHALL BE OF THE SAME MATERIAL AS THE PRIMARY SUPPORT POSTS WHICH THEY ARE WELDED.

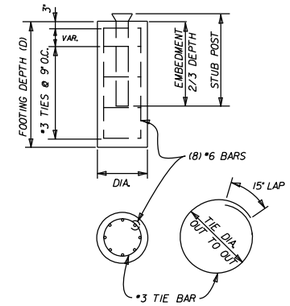
REFER TO THE PLANS FOR FOOTING DIMENSIONS.

EACH STUB POST AND SIGN POST SHALL HAVE A PERMANENT IDENTIFYING STAMP WHICH SPECIFIES THE STEEL SECTION USED. IF THE CONTRACTOR ELECTS TO SHIP THE STUB POST SEPARATE FROM THE SIGN POST A MATCH MARK SYSTEM WILL BE REQUIRED.

STEEL SCHEDULE

FOOTING DIAMETER	#3 TIE BARS		
	DIAMETER	BAR LENGTH	POUNDS
INCHES	INCHES	FEET	
18	12	4.39	1.65
24	18	5.96	2.24
30	24	7.53	2.83
36	30	9.1	3.42

FOOTINIG DEPTH	#6 STRAIGHT BARS		
	BAR LENGTH	NUMBER REQ'D.	POUNDS
FEET	FEET		
2.50	2.00	8	24.03
3.00	2.50	8	30.04
3.50	3.00	8	36.05
4.00	3.50	8	42.06
4.50	4.00	8	48.06
5.00	4.50	8	54.07
5.50	5.00	8	60.08
6.00	5.50	8	66.09
6.50	6.00	8	72.10
7.00	6.50	8	78.10
7.50	7.00	8	84.11
8.00	7.50	8	90.12



FOOTING QUANTITIES

FOOTINIG DEPTH	NUMBER TIE BARS REQ'D	18" DIAMETER		24" DIAMETER		30" DIAMETER		36" DIAMETER	
		CLASS S CONCRETE	REINF STEEL	CLASS S CONCRETE	REINF STEEL	CLASS S CONCRETE	REINF STEEL	CLASS S CONCRETE	REINF STEEL
FEET		CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)	CU. YD.	(GRADE 60)
2.50	4	0.16	31						
3.00	4	0.20	37						
3.50	5	0.23	44						
4.00	6	0.26	52	0.47	56				
4.50	6	0.29	58	0.52	62				
5.00	7	0.33	66	0.58	70	0.91	74		
5.50	8			0.64	78	1.00	83		
6.00	8			0.70	84	1.09	89	1.57	93
6.50	9					1.18	98	1.70	103
7.00	10					1.27	106	1.83	112
7.50	10							1.96	118
8.00	11							2.09	128

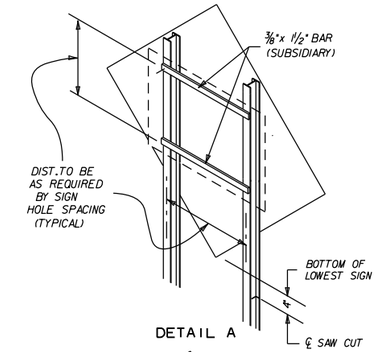
SIGN POST AND STUB POST

DATE	REVISION	FILMED
9-12-13	ISSUED	

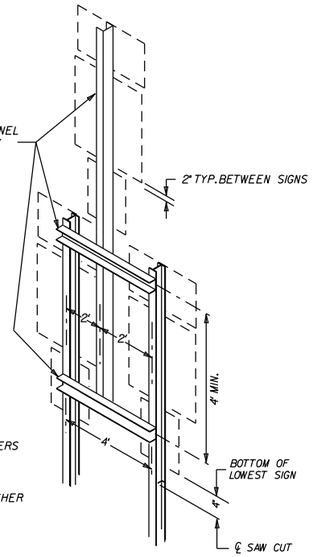
ARKANSAS STATE HIGHWAY COMMISSION

DETAIL OF BREAKAWAY SIGN SUPPORTS FOR GUIDE SIGNS

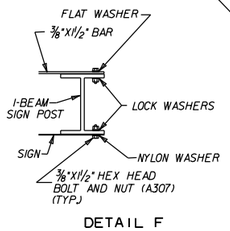
STANDARD DRAWING SHS-3



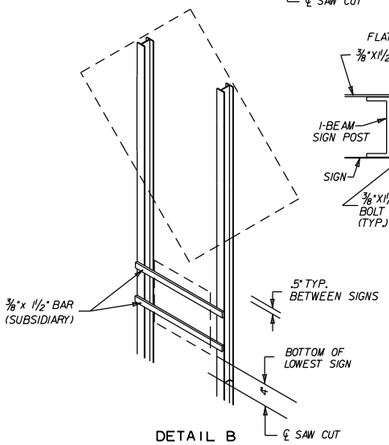
DETAIL A



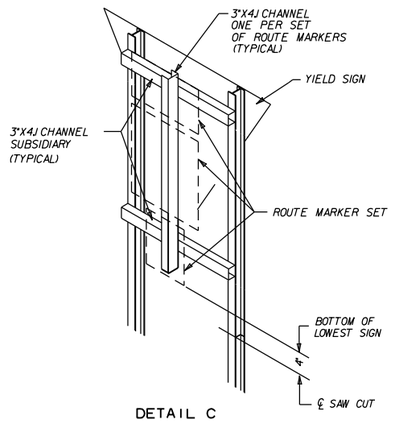
DETAIL D



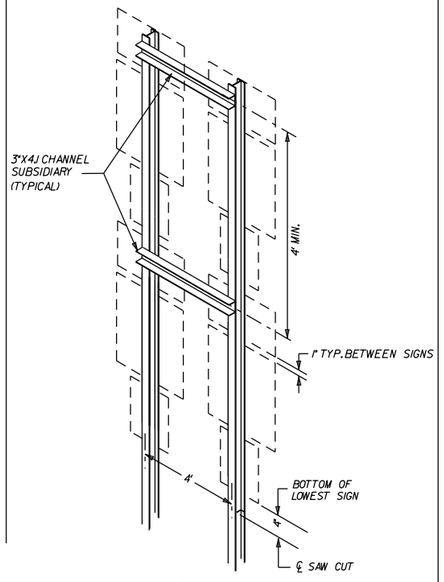
DETAIL F



DETAIL B



DETAIL C



DETAIL E

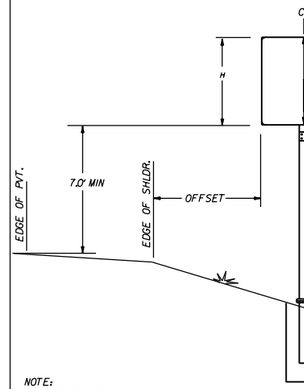
NOTE

ALL ADDITIONAL MOUNTING HARDWARE, BOLTS, NUTS, CHANNELS AND BAR STRAPS REQUIRED TO MOUNT SECONDARY SIGNS WILL BE CONSIDERED TO BE SUPPLEMENTAL TO THE MAIN SIGN SUPPORT SPECIFIED. PAYMENT WILL BE CONSIDERED SUBSIDIARY TO THE MAIN SUPPORT.

THE GALVANIZED STEEL CHANNEL AND BAR SUPPORTS MAY BE ASTM A-36.

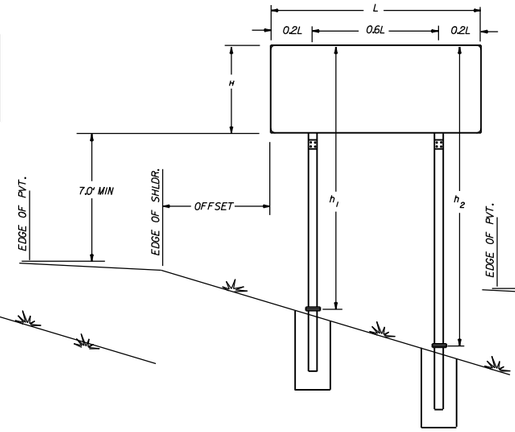
REFER TO THE P.C. RUTLEDGE FORMULA ON PAGE 58 OF THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

ALL BOLT HOLES SHALL BE 1/8" DIA. UNLESS OTHERWISE SHOWN.

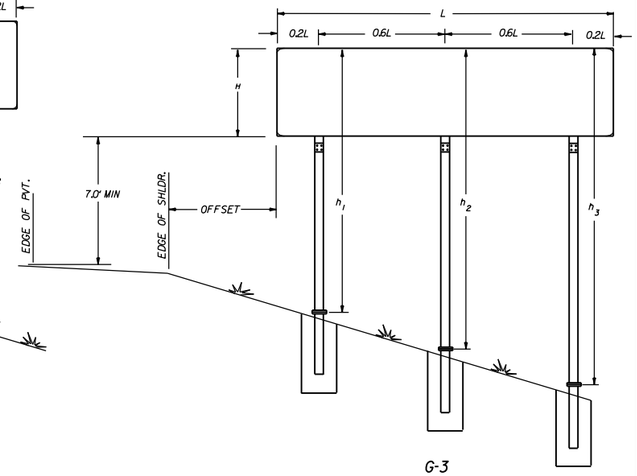


NOTE:
THE OFFSET WILL BE A MINIMUM OF 10' FROM THE EDGE OF PAVED SURFACE OR AS DIRECTED BY THE ENGINEER.

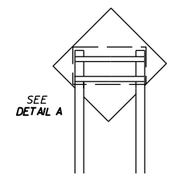
G-1



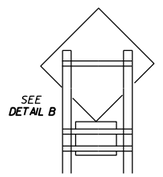
G-2



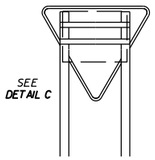
G-3



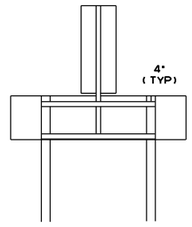
G2-1



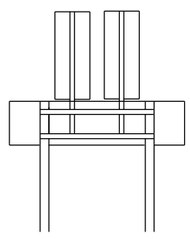
G2-2



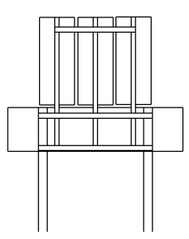
G2-3



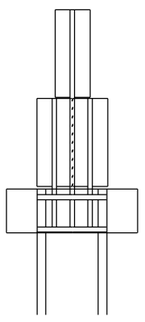
G2-4



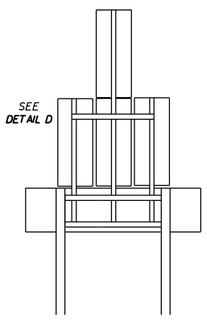
G2-5



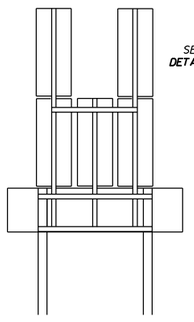
G2-6



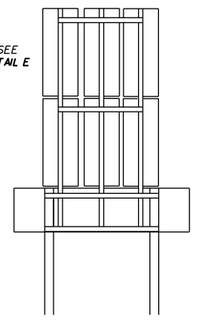
G2-7



G2-8



G2-9



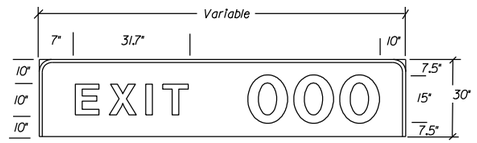
G2-10

			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF BREAKAWAY SIGN SUPPORTS FOR STANDARD SIGNS
9-12-13	ISSUED		STANDARD DRAWING SHS-4
DATE	REVISION	FILMED	



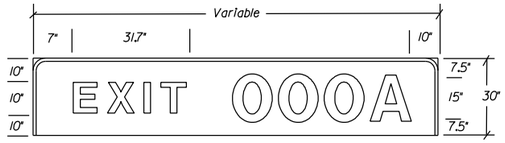
TYPICAL DETAIL

TYPE A



EXIT WITH 1 DIGIT 84"X30"=17.50 SF
EXIT WITH 2 DIGITS 96"X30"=20.0 SF
EXIT WITH 3 DIGITS 114"X30"=23.57 SF

TYPE B

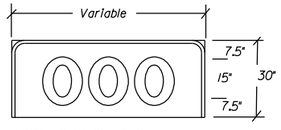


EXIT WITH 1 DIGIT PLUS "A"OR"B" 96"X30"=20.0 SF
EXIT WITH 2 DIGITS PLUS "A"OR"B" 114"X30"=23.57 SF
EXIT WITH 3 DIGITS PLUS "A"OR"B" 126"X30"=26.25 SF

TYPE C

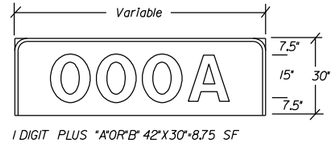
EXITS WITH 1 DIGIT PLUS "A"&"B" 132"X30"=27.50 SF
EXITS WITH 2 DIGITS PLUS "A"&"B" 150"X30"=31.25 SF
EXITS WITH 3 DIGITS PLUS "A"&"B" 168"X30"=35.00 SF

TYPE D



1 DIGIT 24"X30" =5.0 SF
2 DIGITS 42"X30" =8.75 SF
3 DIGITS 60"X30" =12.50 SF

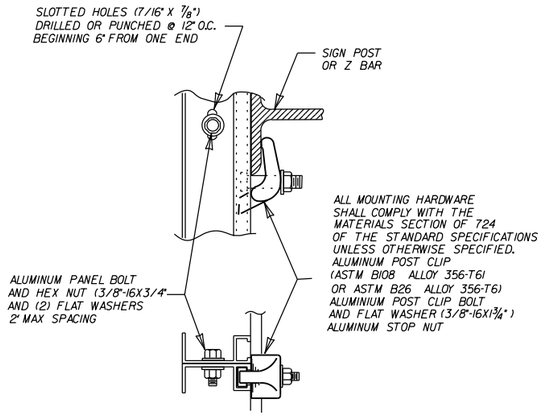
TYPE E

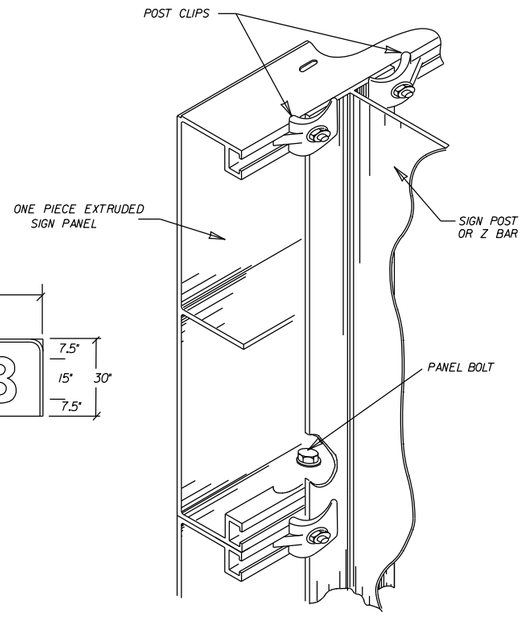


1 DIGIT PLUS "A"OR"B" 42"X30"=8.75 SF
2 DIGITS PLUS "A"OR"B" 60"X30"=12.50 SF
3 DIGITS PLUS "A"OR"B" 78"X30"=16.25 SF

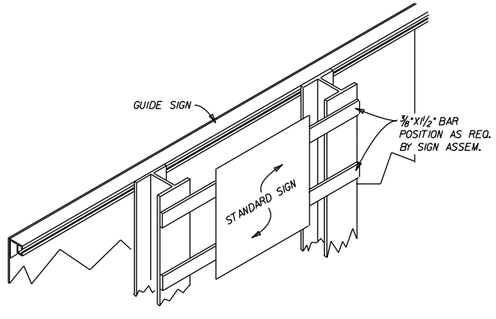
EXIT PANEL DETAILS

NOTE: EXIT NUMBER PANELS SHALL HAVE WHITE LEGENDS AND BORDERS. THE BACK GROUND COLOR WILL BE AS USE SPECIFIES. SHEETING TYPE WILL BE THE SAME AS THE GUIDE SIGN WHICH THE EXIT PANEL IS ATTACHED OR AS SPECIFIED IN THE PLANS. PAYMENT FOR ALL POST CLIPS, BOLTS, AND ANGLES SHALL BE SUBSIDIARY TO THE ITEM "EXIT NUMBER PANEL".

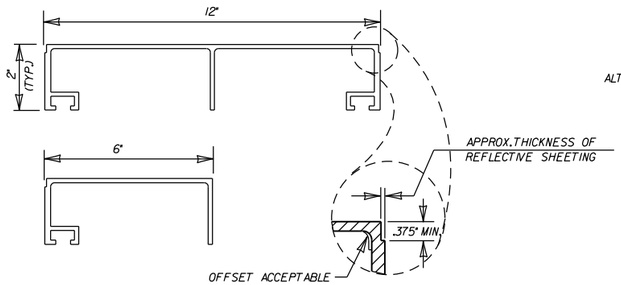




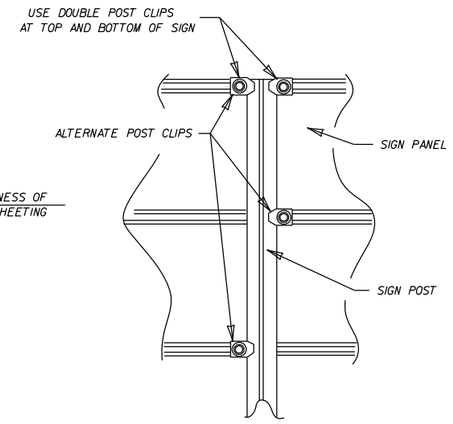
MOUNTING HARDWARE



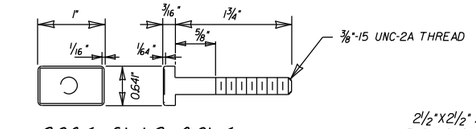
SECONDARY SIGN INSTALLATION ON BACKSIDE OF GUIDE SIGN



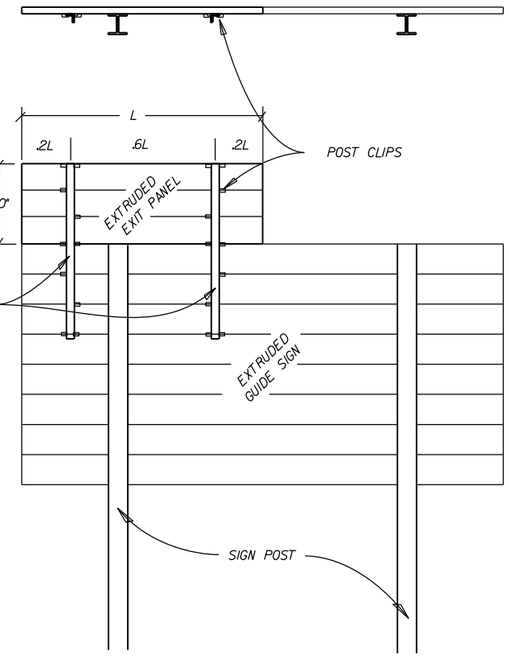
ONE PIECE EXTRUDED SIGN PANELS



POST CLIP PLACEMENT



POST CLIP BOLT



9-12-13	ISSUED	
DATE	REVISION	FILMED

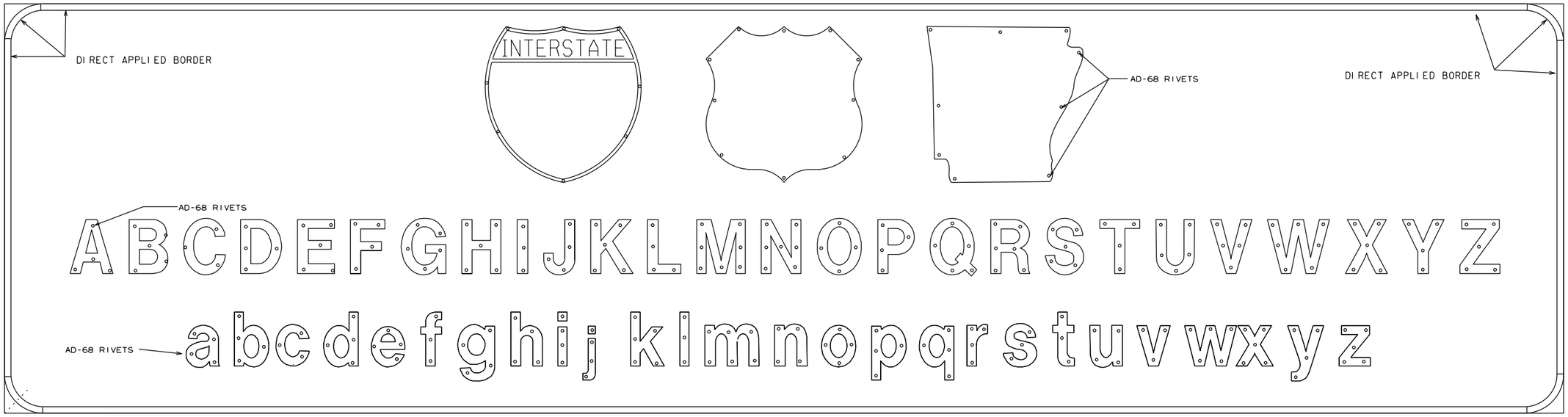
ARKANSAS STATE HIGHWAY COMMISSION

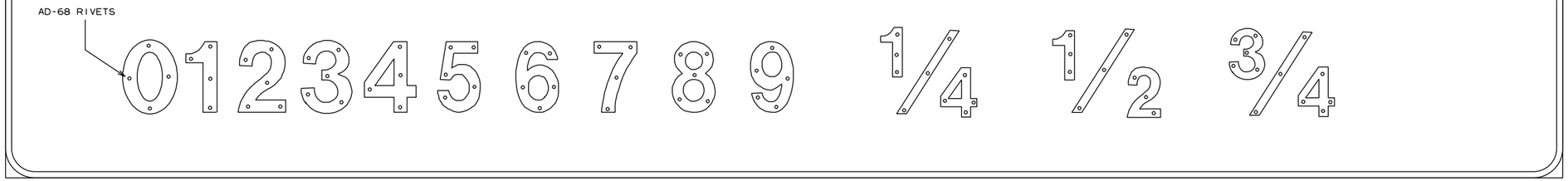
DETAILS OF GUIDE SIGN PANELS

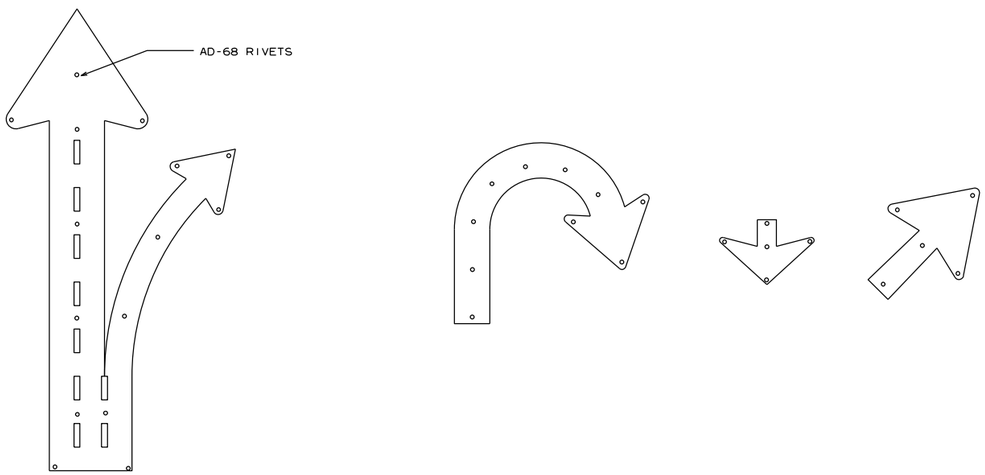
STANDARD DRAWING SHS-5

THE CONTRACTOR SHALL DRILL AND POP-RIVET LEGEND, SHIELDS, ARROWS, OR OTHER COPY AS SHOWN.

MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS







NOTES:

LEGEND ON GUIDE SIGNS ON THE MAIN LANES SHALL BE DEMOUNTABLE LEGEND.
LEGEND ON GUIDE SIGNS ON CROSS ROADS AND RAMPS SHALL BE DIRECT APPLIED.
THE DEMOUNTABLE AND DIRECT APPLIED LEGENDS SHALL BE TYPE IX SHEETING.

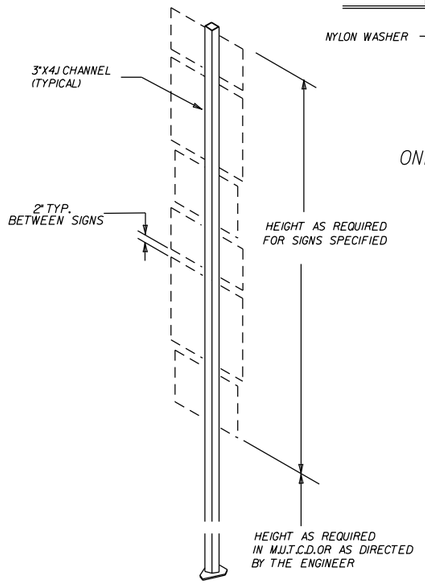
THE BACKGROUND ON ALL GUIDE SIGNS AND STANDARD SIGNS SHALL BE CONSTRUCTED USING TYPE III SHEETING.

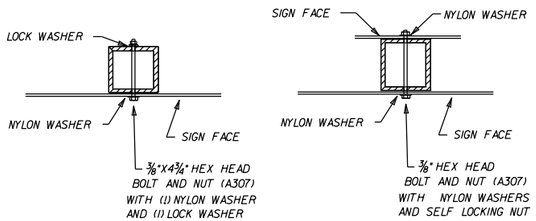
TYPE IX SHEETING FOR BORDER, LEGEND, SHIELDS, ARROWS, OR OTHER COPY SHALL BE ORIENTED VERTICALLY AS PER MANUFACTURERS' DATUM MARKS, ORIENTATION MARKS, OR OTHER RECOMMENDATIONS.

SIGN LEGEND, SHIELDS, ARROWS OR OTHER COPY SHALL BE APPLIED WITH RIVETS ONLY.

NO OTHER METHOD OF APPLYING CHARACTERS IS ALLOWED.

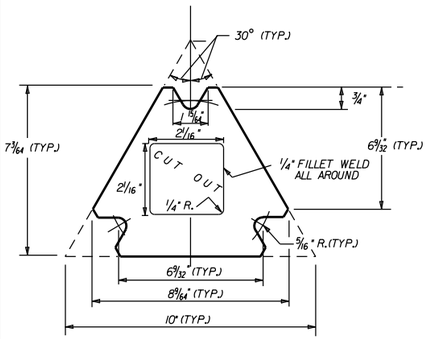
			ARKANSAS STATE HIGHWAY COMMISSION
			MOUNTING DETAILS FOR DEMOUNTABLE LEGEND ON GUIDE SIGNS
9-12-13	ISSUED		STANDARD DRAWING SHS-6
DATE	REVISION	FILMED	



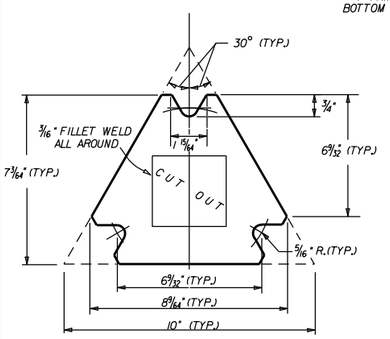


CHANNEL SHALL BE FULL LENGTH OF RECTANGULAR AND SQUARE SIGNS AND SHALL EXTEND 1½" BEYOND BOLT HOLES ON DIAMOND OR IRREGULAR SHAPED SIGNS.

MOUNTING HARDWARE



TOP PLATE



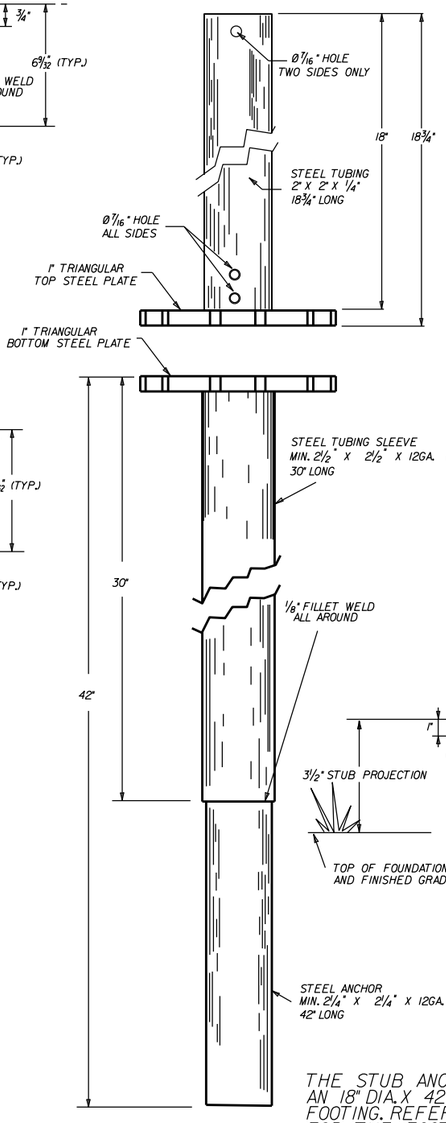
BOTTOM PLATE

GENERAL NOTES:

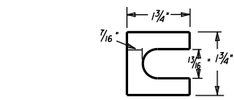
THE TOP PLATE OF TRIANGULAR SLIP BASES SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE.

INSIDE DIAMETER OF THE SIGN POST SHALL BE CUT THROUGH THE CENTER OF THE TOP PLATE WITH THE HOLE EDGE BEVELED AS SHOWN. THE BEVEL END SHALL BE TANGENT TO THE BOLT HOLE . ANY MISALIGNMENT SHALL BE REMOVED BY GRINDING . FACE OF BEVEL SHALL BE FINISHED TO A MINIMUM SMOOTHNESS OF 1•500 .

OTHER MASH COMPLIANT BREAKAWAY SIGN SUPPORTS THAT HAVE THE SAME TOP PLATE DIMENSIONS AND SUPPORT 2¼" X 2¼" SQUARE TUBE SIGN POSTS MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.

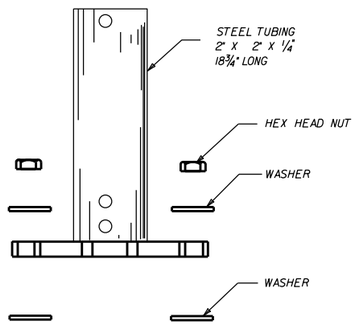


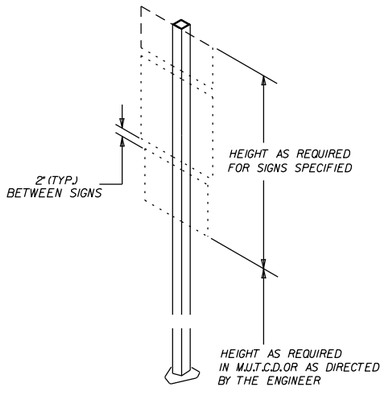
THE STUB ANCHOR SHALL BE SET IN AN 18" DIA. X 42" DEEP CONCRETE FOOTING. REFER TO STD.DRWG.SHS-3 FOR THE FOOTING DETAILS.



FURNISH (2) .012" THICK AND (2) .032" THICK SHIMS PER POST

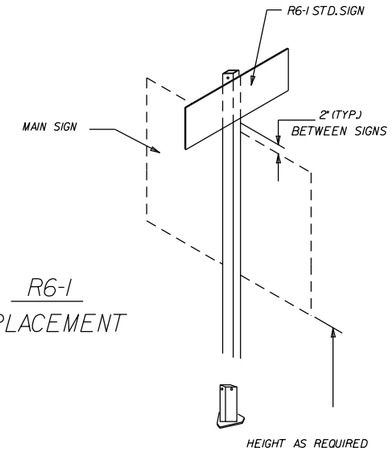
SHIM DETAIL





TYPE-I

BASIS OF ESTIMATE
APPROX. 100 lbs STEEL



R6-1 PLACEMENT

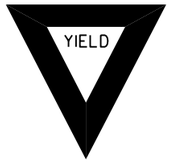
			ARKANSAS STATE HIGHWAY COMMISSION
			DETAIL OF OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS
9-12-13	ISSUED		STANDARD DRAWING SHS-7
DATE	REVISION	FILMED	

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



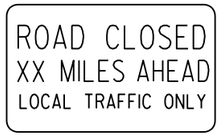
STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

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



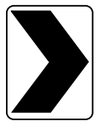
STD. 48"X48"

W1-6



STD. 48"X24"
SPECIAL 60"X30"

W1-8



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

W3-1



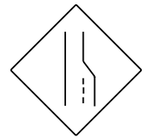
STD. 36"X36"
SPECIAL 48"X48"

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



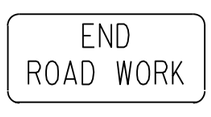
STD. 36"X36"
FWY. 48"X48"

G20-1



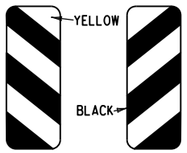
60"X24"

G20-2



48"X24"

OM-3L OM-3R



12"X36"

M4-9



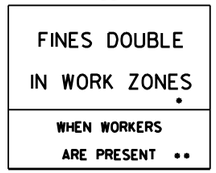
STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

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.

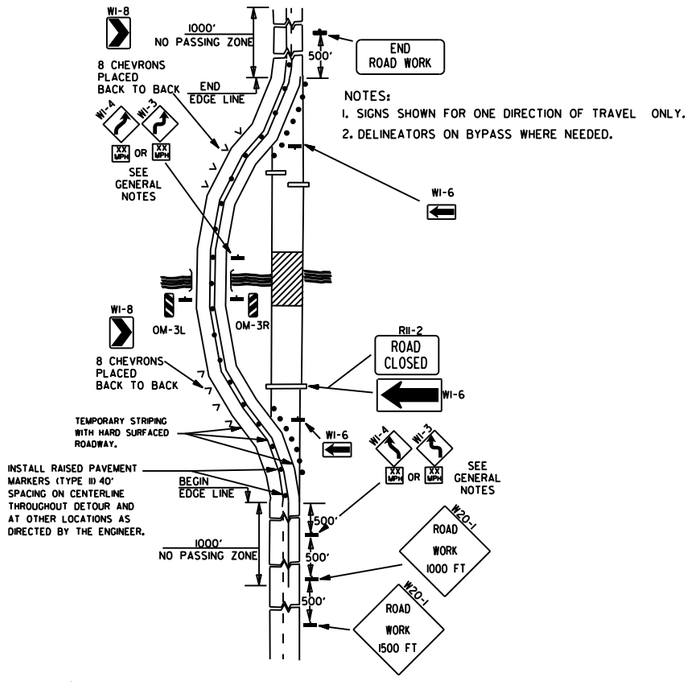
- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED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

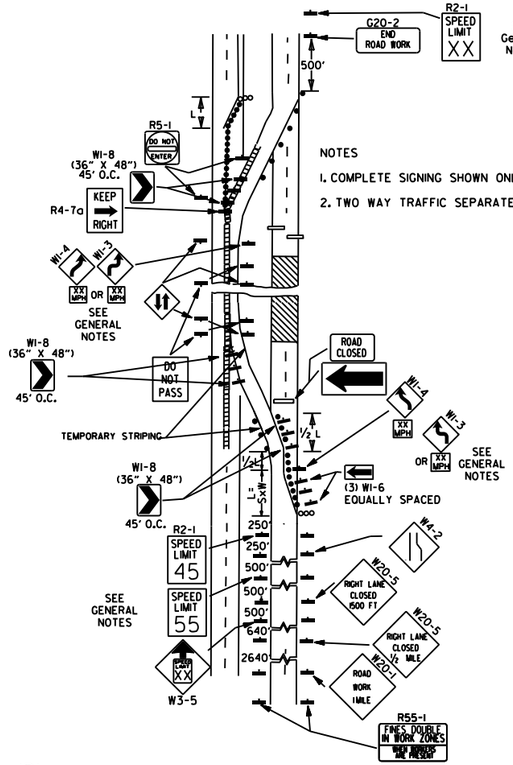
STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-1



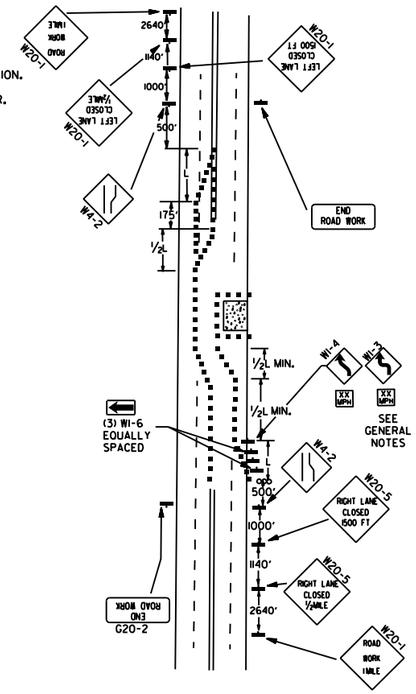
NOTES:
1. SIGNS SHOWN FOR ONE DIRECTION OF TRAVEL ONLY.
2. DELINEATORS ON BYPASS WHERE NEEDED.

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

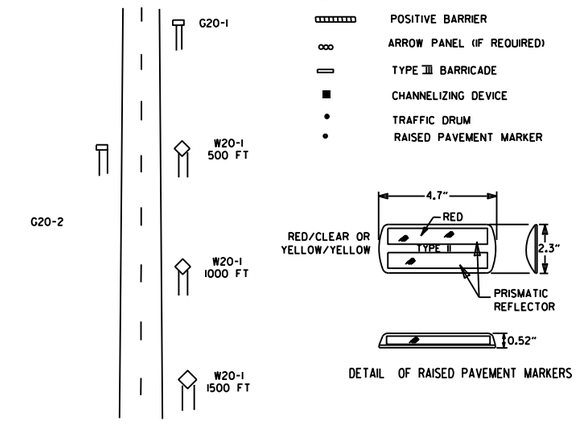


NOTES
1. COMPLETE SIGNING SHOWN ONLY IN CROSSOVER DIRECTION.
2. TWO WAY TRAFFIC SEPARATED WITH POSITIVE BARRIER.

(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.



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:

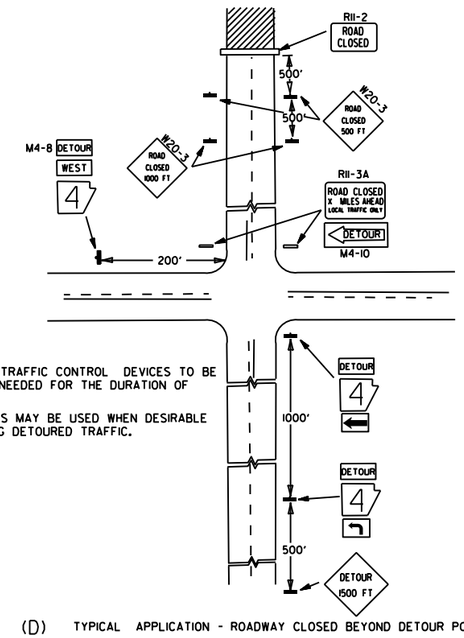
L= MINIMUM LENGTH OF TAPER.

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

W= WIDTH OF OFFSET.

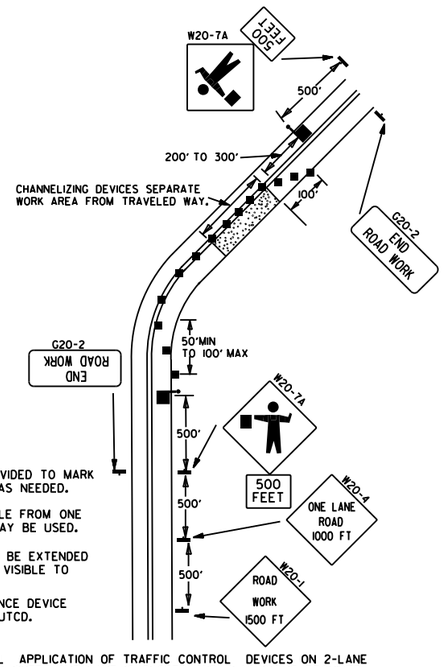
GENERAL NOTES:

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 W1-3 OR W1-4 CURVE WARNING SIGNS. USE W1-4 WHEN SPEED IS GREATER THAN 30MPH AND W1-3 WHEN 30MPH OR LESS
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 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 R2-1(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 R2-155MPH 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.
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).



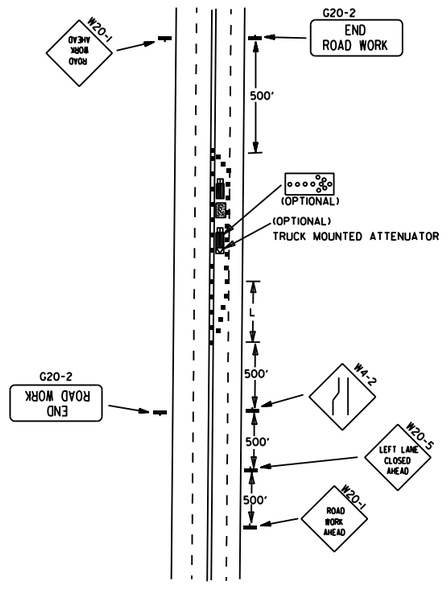
NOTES:
1. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
2. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC.

(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.



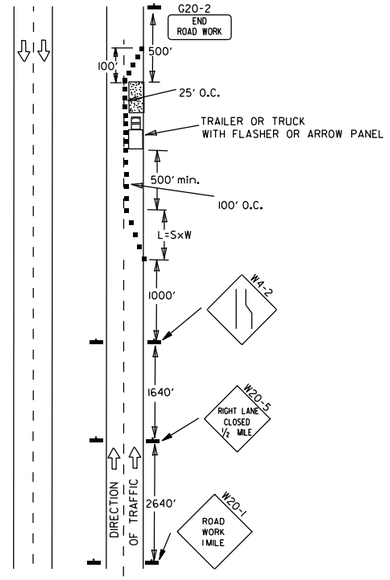
(F) TYPICAL APPLICATION - 4-LANE UNDIVIDED ROADWAY WITH INSIDE LANE CLOSED.

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

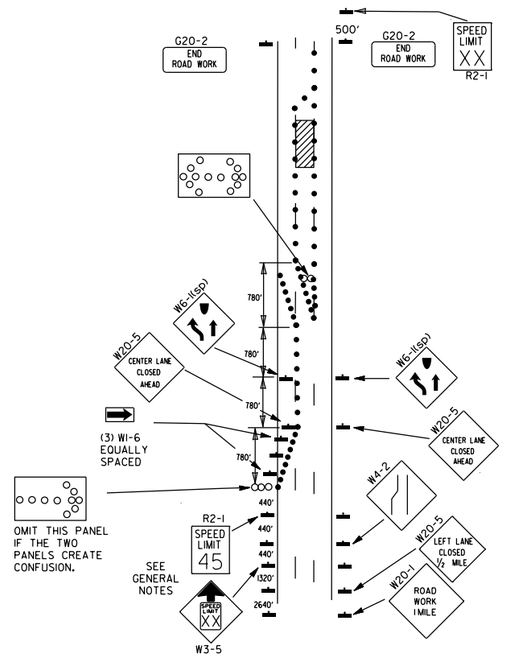
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

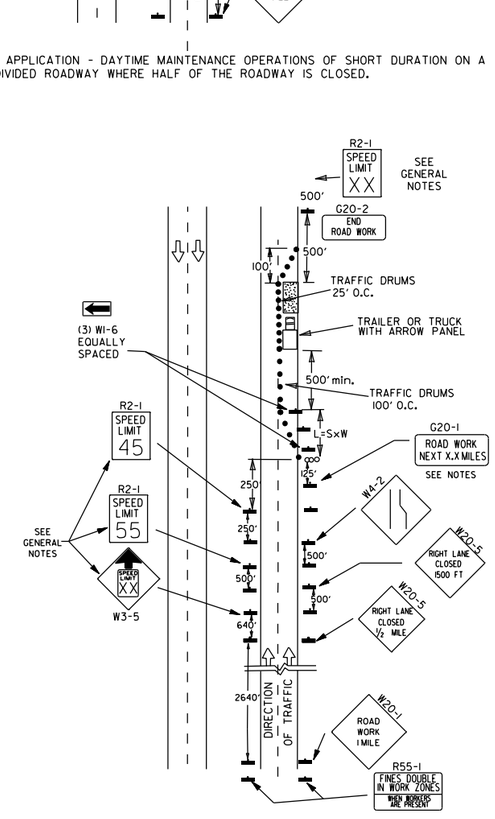
STANDARD DRAWING TC-2



(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.



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

KEY:

ooo ARROW PANEL (IF REQUIRED)

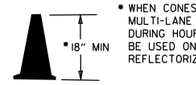
■ CHANNELIZING DEVICE

● TRAFFIC DRUM

GENERAL NOTES:

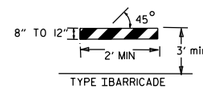
1. A SPEED LIMIT REDUCTION MAY BE IMPLEMENTED ONLY WHEN DESIGNATED IN THE PLAN OR WHEN RECOMMENDED BY THE ROADWAY DESIGN DIVISION.
2. WHEN THE EXISTING SPEED LIMIT IS 55MPH AND THE PLANS REQUIRE A SPEED LIMIT OF 45MPH, THE R2-1(55) SHALL BE OMITTED AND THE W3-5 SHALL BE INSTALLED AT THAT LOCATION. ADDITIONAL R2-145MPH 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 R2-155MPH 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.
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).

CHANNELIZING DEVICES

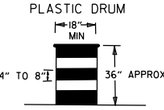


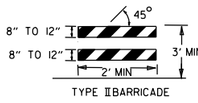
* WHEN CONES ARE USED ON FREEWAYS AND MULTI-LANE HIGHWAYS, THEY SHALL BE 28" MIN. DURING HOURS OF DARKNESS, 28" CONES SHALL BE USED ON ALL ROADWAYS, AND SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE M.U.T.C.D.

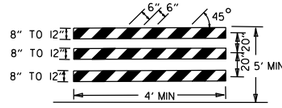
CONES



PLASTIC DRUM

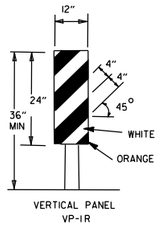




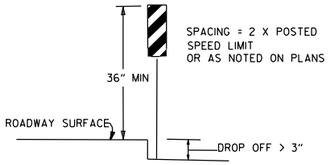


TYPE III BARRICADE

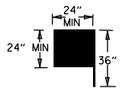
NOTE:
FOR ALL ROAD CLOSURES, THE TYPE III BARRICADES SHALL BE OF SUFFICIENT LENGTH TO EXTEND ACROSS ENTIRE ROADWAY.



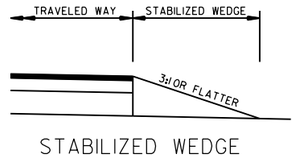
VERTICAL PANEL PLACEMENT



FLAG

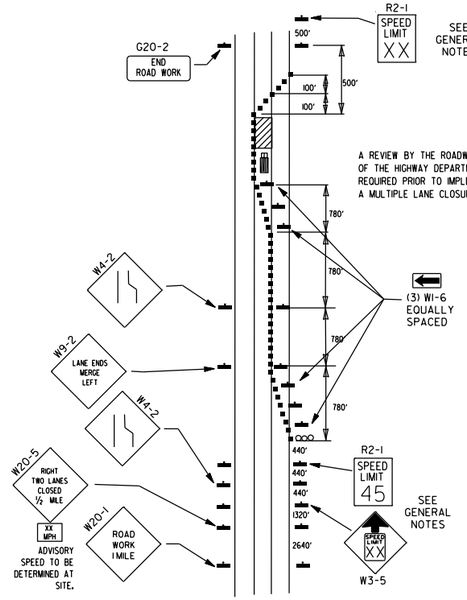


FLAG SHALL BE OF GOOD GRADE RED MATERIAL



STABILIZED WEDGE

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



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

TRAFFIC CONTROL DEVICES

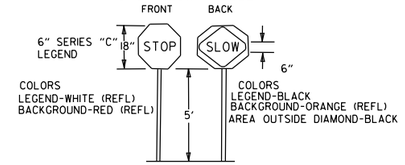
NON-INTERSTATE			
VERTICAL DIFFERENTIAL	LOCATION	TRAFFIC CONTROL	
		≤ 45 MPH	> 45 MPH
≤ 2"	CENTERLINE	W8-11 AND LANE STRIPING	W8-11 AND LANE STRIPING
> 2"	CENTERLINE	STANDARD LANE CLOSURE	STANDARD LANE CLOSURE
≤ 3"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-9, EDGE LINE STRIPING, AND VERTICAL PANELS	W8-9, EDGE LINE STRIPING, AND VERTICAL PANELS
> 3" ≤ 6"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND VERTICAL PANELS	W8-17, EDGE LINE STRIPING, AND VERTICAL PANELS
> 6" ≤ 18"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(2)
> 18" ≤ 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	W8-17, EDGE LINE STRIPING, AND TRAFFIC DRUMS(1)	A STABILIZED WEDGE, W8-17, EDGE LINE STRIPING AND TRAFFIC DRUMS(3)
> 24"	EDGE OF TRAVELED LANE OR EDGE OF SHOULDER	PRECAST CONCRETE BARRIER(4) & EDGE LINES	PRECAST CONCRETE BARRIER(4) & EDGE LINES

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

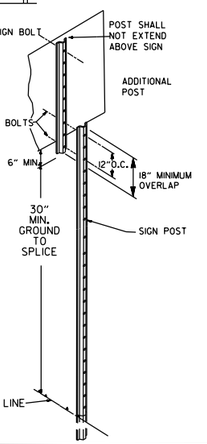
INTERSTATE AND NON-INTERSTATE		
FORESLOPE	HEIGHT	TRAFFIC CONTROL
1:1	> 2 FT	PRECAST CONCRETE BARRIER
2:1	≤ 5 FT	TRAFFIC DRUMS
2:1	> 5 FT	PRECAST CONCRETE BARRIER
Flatter than 2:1	N/A	TRAFFIC DRUMS

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.

STOP SLOW PADDLE



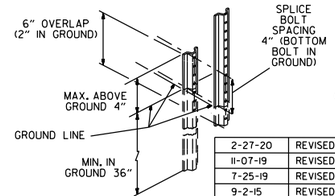
DETAIL OF SPLICES



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.



DATE	REVISION	FILMED
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	

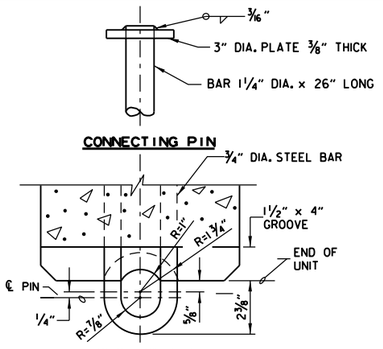
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

STANDARD DRAWING TC-3

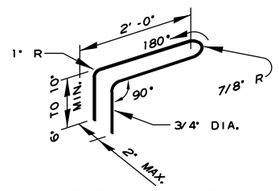
REINFORCING BAR TABLE PER BARRIER UNIT

MARK	LOCATION	BAR SIZE	(NO. BARS)	SKETCH
H-1	HORIZONTAL IN BARRIER TIED INSIDE V-1 BARS	#5	(6)	19'-3"
H-2	CENTERED ABOVE DRAIN SLOTS LONG. & TRANSVERSELY	#5	(6)	6'-6"
H-3	TIED ABOVE H-1 BARS TO SUPPORT H-2, TIED TO V-1	#4	(2)	1'-6"
S-1	OVER LIFT HOLES	#4	(2)	2'-5", LIFTING HOLE, 90°, 3 3/8" R
S-2	HORIZ. AROUND SLOTS BETWEEN V-1'S @ DRAIN SLOTS	#4	(2)	1 1/2" R, SLOTS, 7", 1'-6", 1" MIN. CLEAR TO BAR; 5'-1" BAR W/(4) 1 1/2" R BENDS & MIN. 1'-0" OVERLAP
V-1	VERTICAL IN BARRIER(3) EACH END & (2) AT EACH DRAIN SLOTS	#5	(16)	TOTAL LENGTH 4'-9"; 2 3/16" R; 12°; 1 1/2"; 9"; 2'-1 3/8"; 4 3/8"

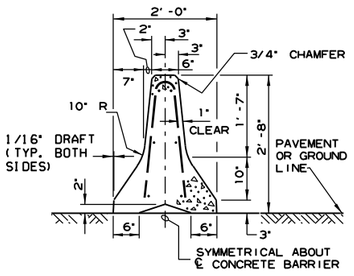


SECTION E-E

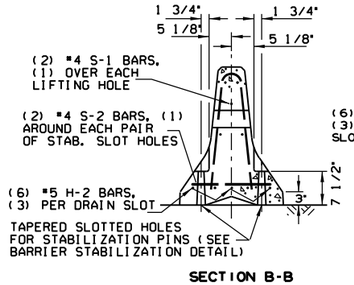
CONNECTION DETAILS



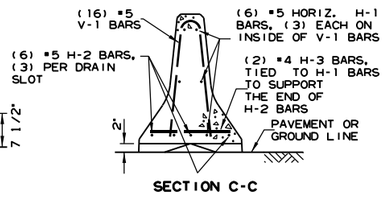
CONNECTION LOOP



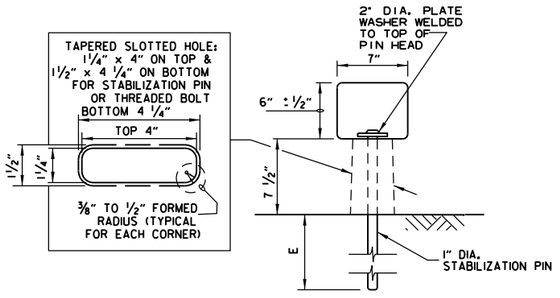
SECTION A-A



SECTION B-B



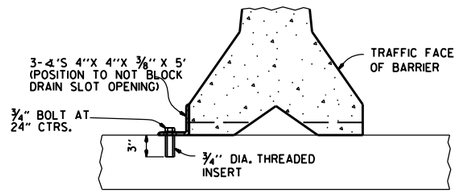
SECTION C-C



BARRIER STABILIZATION DETAIL

ROADWAY SECTION

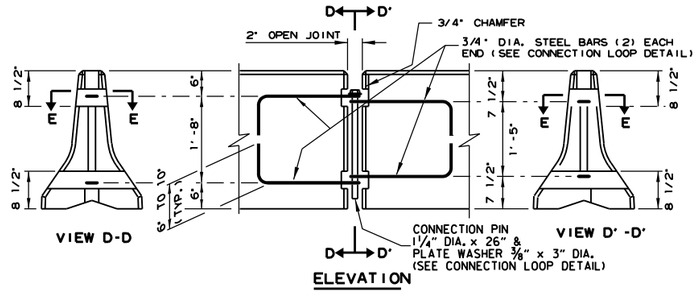
(E) 4" - CONCRETE PAVEMENT
8" - ASPHALT PAVEMENT
12" - SHOULDER AREAS



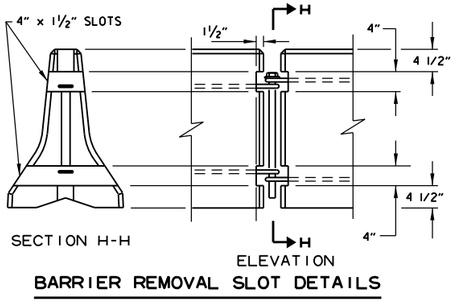
NOTE: " THREADED INSERTS SHALL BE CAST IN PLACE FOR ALL NEW BRIDGE DECKS AND DRILLED AND GROUTED FOR EXISTING BRIDGE DECKS. INSERTS SHALL HAVE A MINIMUM ULTIMATE LOAD CAPACITY OF 8000 LBS. IN TENSION. AFTER REMOVAL OF BARRIER, BOLTS, AND ANGLES, THE INSERTS SHALL BE FILLED WITH APPROVED NON-SHRINK EPOXY.

BARRIER STABILIZATION DETAIL

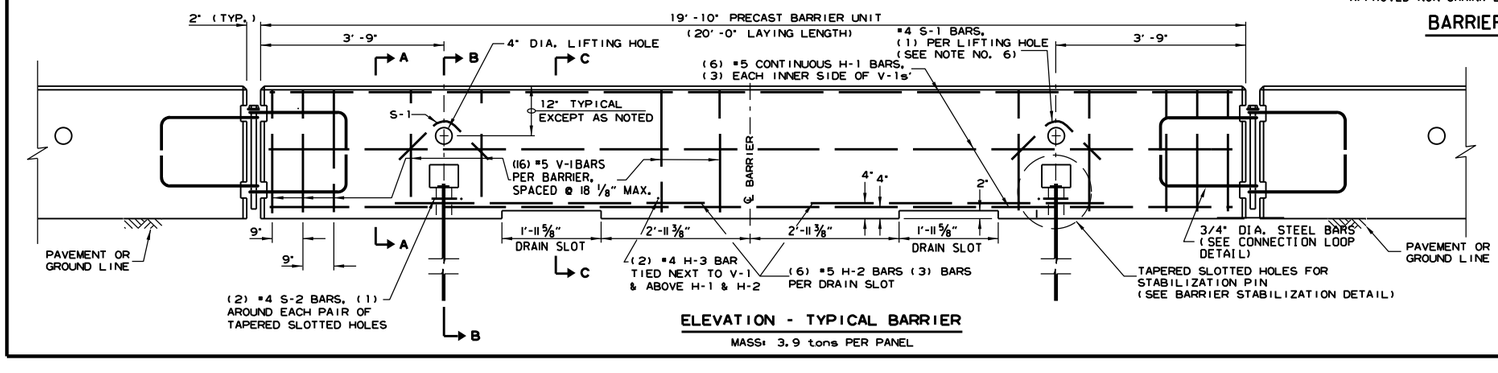
BRIDGE DECKS



ELEVATION



BARRIER REMOVAL SLOT DETAILS



ELEVATION - TYPICAL BARRIER

MASS: 3.9 tons PER PANEL

GENERAL NOTES

(1) THE CONTRACTOR SHALL FURNISH THE PRECAST CONCRETE BARRIER UNITS AND SHALL BE RESPONSIBLE FOR THE MANUFACTURE, SHIPMENT, STORAGE, PLACEMENT AND REMOVAL. AT THE COMPLETION OF THE PROJECT, THE PRECAST UNITS WILL REMAIN THE PROPERTY OF THE CONTRACTOR.

(2) MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
CONCRETE: 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
REINFORCING STEEL: AASHTO M 31 OR M 53, GRADE 60
STRUCTURAL STEEL: AASHTO-M270 GRADE 36 SHALL BE USED FOR THE CONNECTION PIN, CONNECTION LOOPS, AND STABILIZATION PINS. A ONE PIECE PIN WITH A 3" ROUNDED TOP MAY BE USED IN PLACE OF THE DETAILED CONNECTION PIN.
DELINEATORS: DELINEATORS SHALL BE MOUNTED AT 10' SPACING ON TOP OF PRECAST BARRIER.

IN APPLICATIONS WHERE BARRIER WALL IS WITHIN 6 FEET OF A TRAFFIC LANE, ADDITIONAL DELINEATORS SHALL BE PLACED ON THE BARRIER AT 10' SPACING APPROXIMATELY ONE (1) FOOT FROM THE TOP OF THE BARRIER. DELINEATORS SHALL BE ON THE ARDOT QUALIFIED PRODUCTS LIST FOR CONSTRUCTION CONCRETE BARRIER MARKERS.
DELINEATOR COLOR SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
PAYMENT FOR DELINEATORS SHALL BE CONSIDERED INCLUDED IN THE PRICE BID PER LIN. FT. FOR "FURNISHING AND INSTALLING PRECAST CONCRETE BARRIER". THE CONTRACTOR SHALL CERTIFY TO THE ENGINEER THAT THE MATERIAL AND THE DESIGN USED IN THE PRECAST BARRIER UNITS MEETS THE REQUIREMENTS AS SHOWN ON THIS STANDARD DRAWING.

(3) OTHER PRECAST CONCRETE BARRIERS THAT HAVE BEEN CRASH TESTED AND APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION TO MEET THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) WILL BE ACCEPTED IN LIEU OF THE BARRIER SHOWN. DRAIN SLOTS SHALL BE PROVIDED AS NEEDED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH A CERTIFICATION OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) COMPLIANCE FOR ANY OTHER TYPES OF PRECAST BARRIER TO BE USED. THE CERTIFICATION SHALL STATE THAT THE PRECAST CONCRETE BARRIER MEETS THE REQUIREMENTS OF MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). MIXING OF SHAPES WILL NOT BE ALLOWED IN A CONTINUOUS LINE OF UNITS.

(4) DOWEL HOLES IN PAVEMENT OR BRIDGE SLABS THAT ARE TO REMAIN IN PLACE SHALL BE FILLED. HOLES IN CONCRETE PAVEMENT AND BRIDGE SLABS SHALL BE FILLED WITH AN APPROVED NON-SHRINK EPOXY GROUT. HOLES IN ASPHALT PAVEMENT SHALL BE FILLED WITH AN APPROVED ASPHALT JOINT FILLER. PAYMENT FOR DRILLING AND FILLING HOLES TO BE INCLUDED IN THE PRICE FOR VARIOUS BARRIER ITEMS.

(5) ATTACH UNITS TO ROADWAY SURFACE WITH STABILIZATION PINS AND TO DECK SLABS USING BOLTS WHEN REQUIRED.

(6) A 4" WHITE PVC SLEEVE MAY BE USED TO FORM THE LIFTING HOLE AND IF USED THE SLEEVE IS TO BE LEFT IN PLACE.

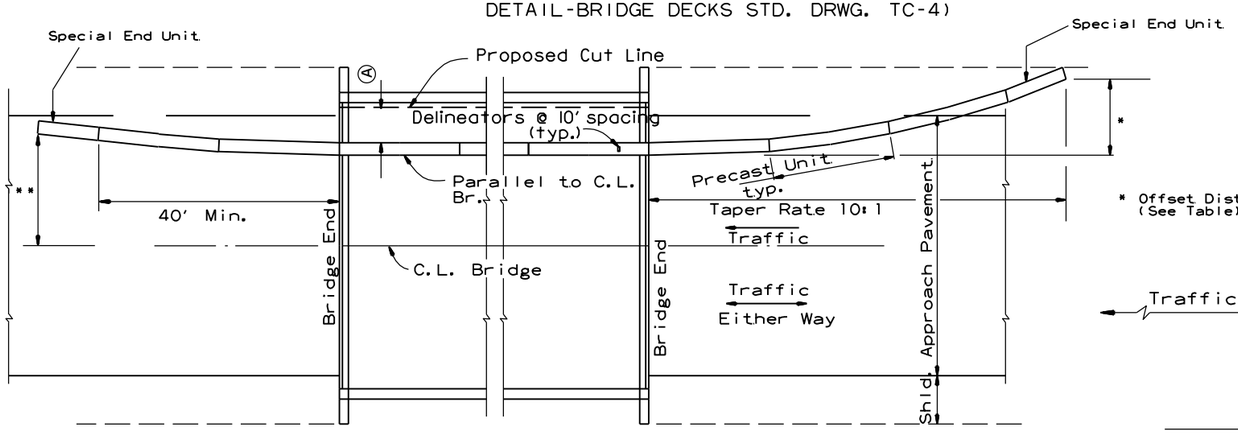
DATE	REVISION	FILMED
11-07-19	REVISED NOTE 3	
2-27-14	REVISED BARRIER STABILIZATION DETAIL	
10-15-09	ADDED REFERENCE TO WASH	
8-5-09	REV. NOTE 3 CONCERNING DRAIN SLOTS	
11-29-07	REVISED NOTE 3	
5-25-06	DELETED GENERAL NOTE 7	
11-18-04	REVISED BARRIER STABILIZATION DETAIL BRIDGE DECKS	
4-10-03	REVISED GENERAL NOTE 2	
8-22-02	ISSUED NEW DRAWING	

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

STANDARD DRAWING TC-4

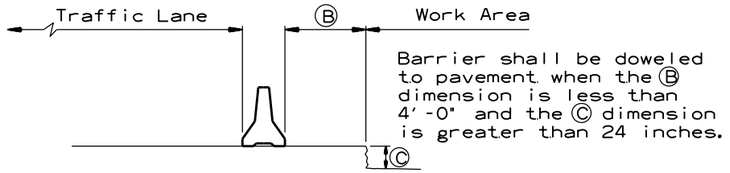
Ⓐ 4 feet or greater preferred. If less than 4 feet, Precast Units shall be connected to slab (SEE BARRIER STABILIZATION DETAIL-BRIDGE DECKS STD. DRWG. TC-4)



* Offset Distance (See Table)

BARRIER PLACEMENT ALONG BRIDGE WITH OFFSET

No Scale

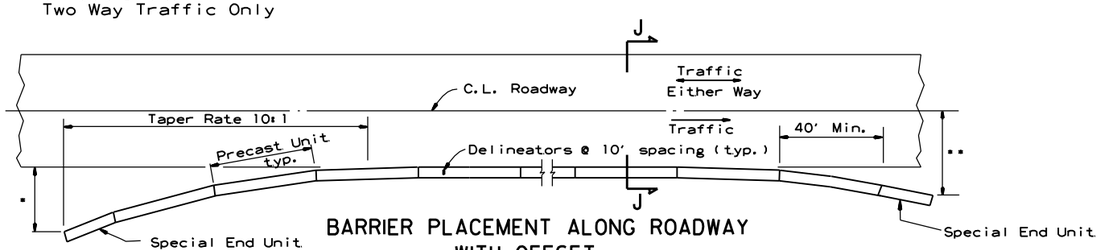


Barrier shall be doweled to pavement when the Ⓑ dimension is less than 4'-0" and the Ⓒ dimension is greater than 24 inches.

SECTION J-J

No Scale

** Offset Distance for Two Way Traffic Only



BARRIER PLACEMENT ALONG ROADWAY WITH OFFSET

No Scale

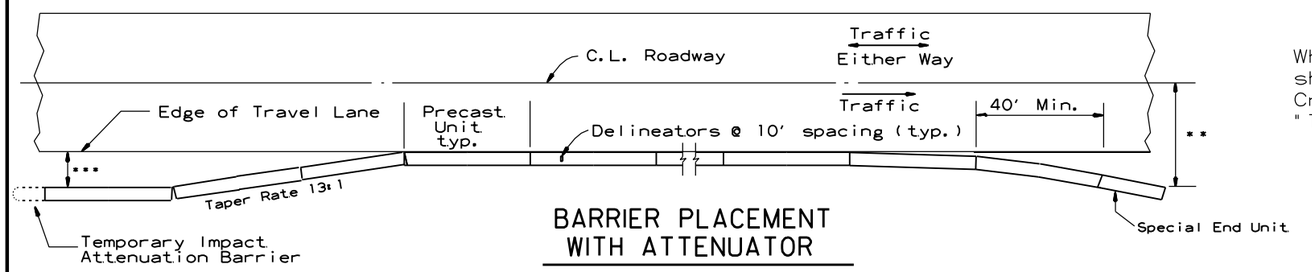
* Offset Distance (See Table)

** Offset Distance For Two Way Traffic Only

Offset Distance Table

Speed (MPH)	Offset Distance (FT.)
≤ 45	12
> 45	18

If offset distance is not attainable, then see "Barrier Placement With Attenuator" Detail shown below.

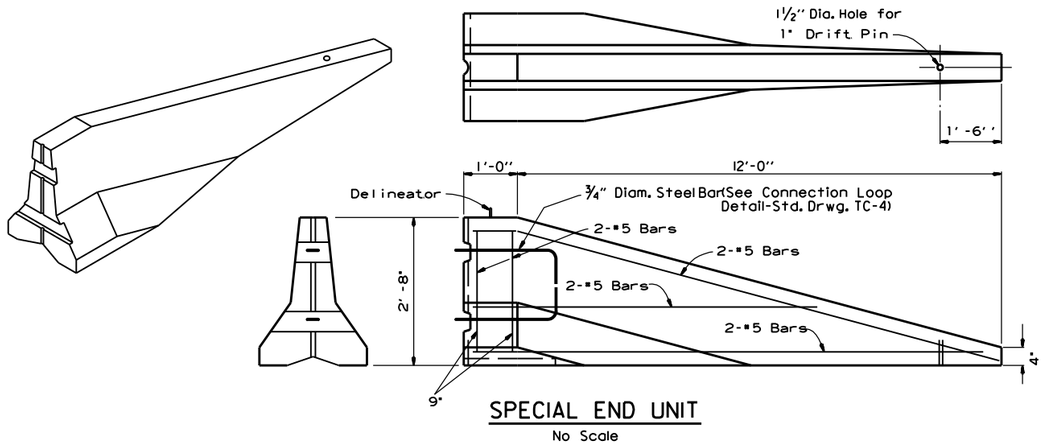


BARRIER PLACEMENT WITH ATTENUATOR

No Scale

** Offset Distance For Two Way Traffic Only

*** Min. 3'-0" From Edge of Travel Lane to Nearest Edge of Attenuator



SPECIAL END UNIT

No Scale

General Notes

When shown on the Plans, the ends of the Temporary Precast Concrete Barrier shall be protected with a Manual For Assessing Safety Hardware (MASH) approved Crash Cushion. Payment for Crash Cushions shall be made under the item of "Temporary Impact Attenuation Barrier."

DATE	REVISION	FILMED
11-07-19	REVISED NOTE	
10-15-09	ADDED REFERENCE TO MASH	
5-25-06	REVISED BARRIER PLACEMENT	
8-22-02	ISSUED NEW DRAWING	

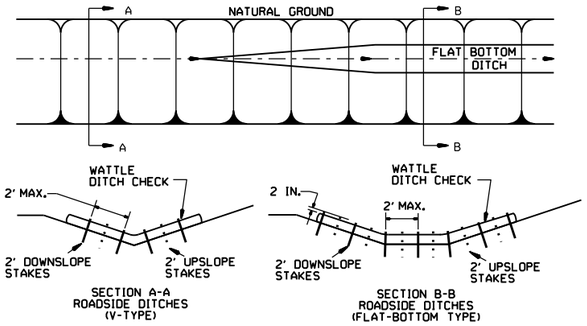
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION - TEMPORARY PRECAST BARRIER

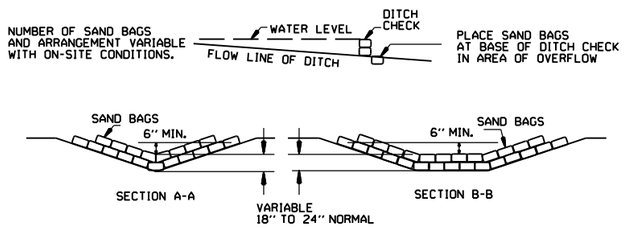
STANDARD DRAWING TC-5

GENERAL NOTES

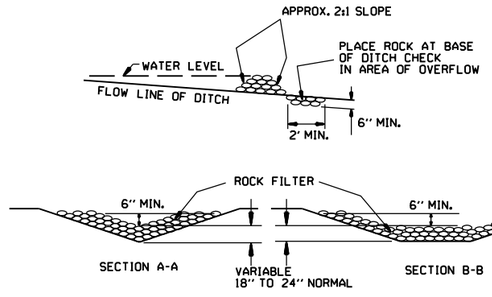
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



SAND BAG DITCH CHECK (E-5)

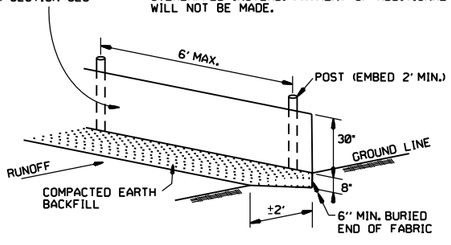


ROCK DITCH CHECK (E-6)

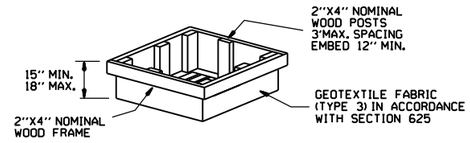
GENERAL NOTES

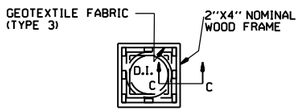
GEOTEXTILE FABRIC (TYPE 4) IN ACCORDANCE WITH SECTION 625

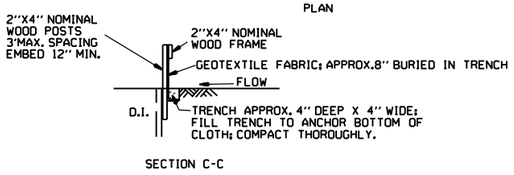
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.



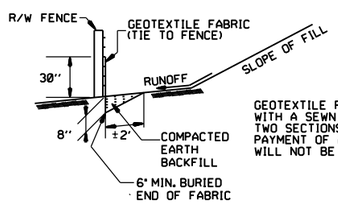
SILT FENCE (E-11)





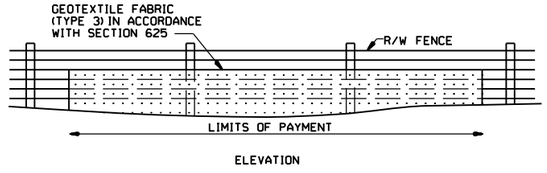


DROP INLET SILT FENCE (E-7)



GENERAL NOTES

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



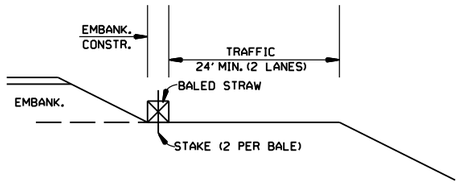
SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

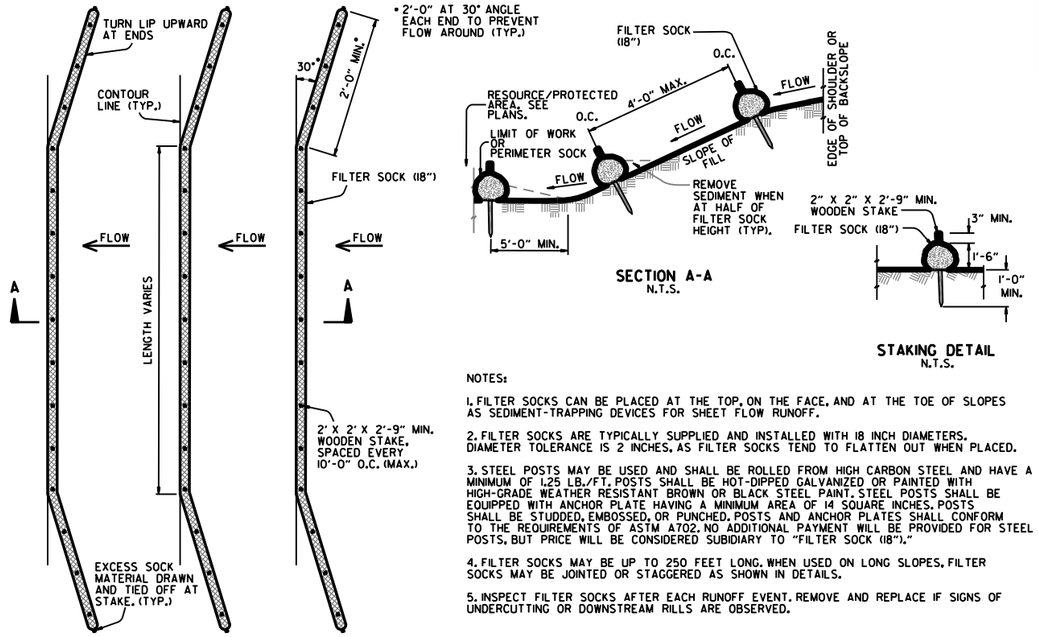
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

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.

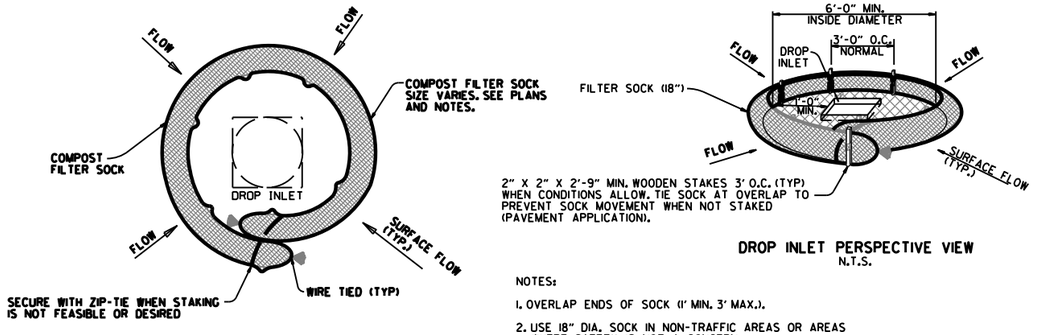
2. FILTER SOCKS ARE TYPICALLY SUPPLIED AND INSTALLED WITH 18 INCH DIAMETERS. DIAMETER TOLERANCE IS 2 INCHES, AS FILTER SOCKS TEND TO FLATTEN OUT WHEN PLACED.

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

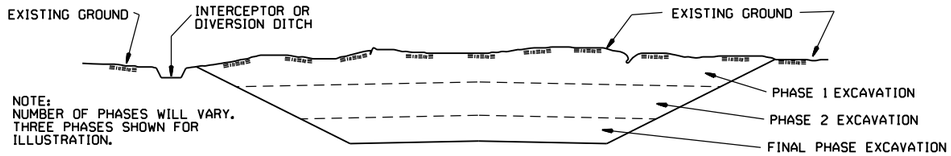
STANDARD DRAWING TEC-1

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



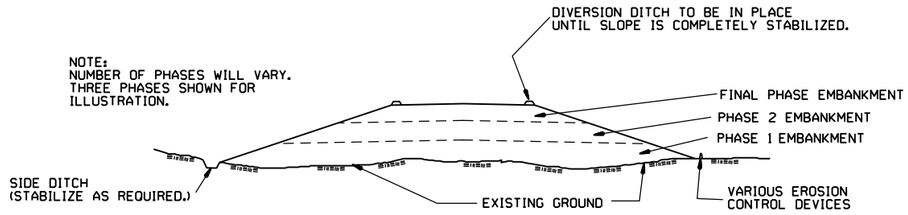
GENERAL NOTE

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.

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

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3