

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS FOR STATE HIGHWAY

**NORTH OF BLACK OAK-
MONETTE BYPASS (S)**

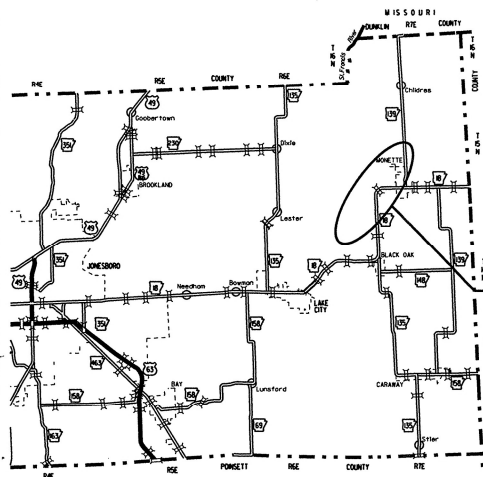
CRAIGHEAD COUNTY

ROUTE 18 SECTION 4

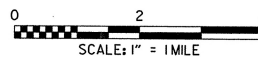
JOB 100567

FED. AID PROJ. STP-0016 (59)

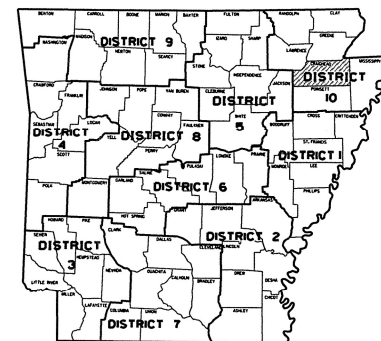
PROJECT
LOCATION



VICINITY MAP



DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO. 100567	1	12
						NORTH OF BLACK OAK-MONETTE BYPASS (S)		



ARK. HWY. DIST. NO. 10

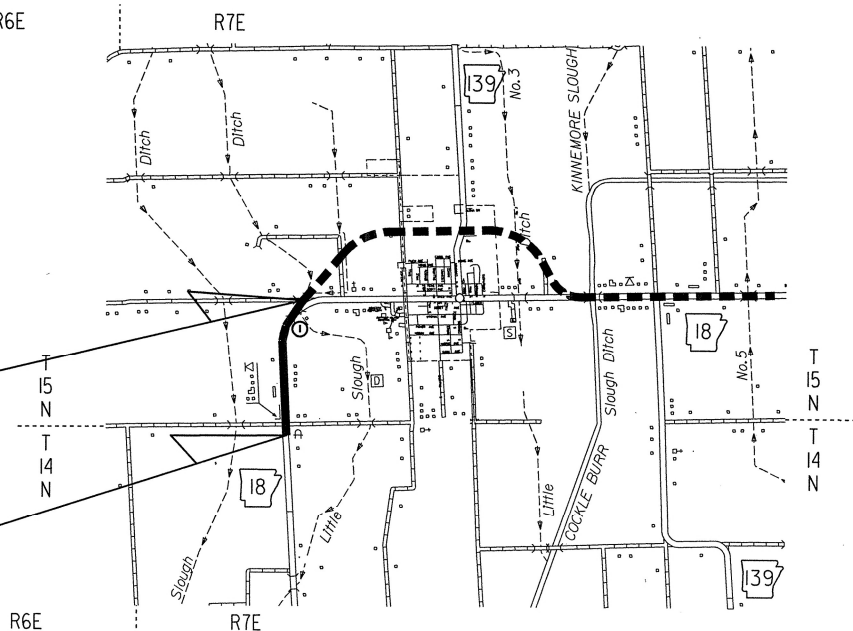
• DESIGN TRAFFIC DATA •

DESIGN YEAR	2033
2013 ADT	6200
2033 ADT	8000
2033 DHV	880
DIRECTIONAL DISTRIBUTION	60%
TRUCKS	12%
DESIGN SPEED	60 MPH

- STRUCTURES OVER 20'-0" SPAN
- ① STA. 465+62 CONSTRUCT
QUAD. 12' X 7' X 195' R.C. BOX CULVERT
45° LT. FWD. SKEW
W/ 3:1 WINGS LT. & RT.
D.A. = 14.1 SO. MI., OSO = 920 C.F.S.
SPAN = 63' - 11"

STA. 472+50.00
END JOB 100567

STA. 413+67.88
BEGIN JOB 100567
LOG MILE 23.03



	LATITUDE	LONGITUDE
BEGIN JOB	N 35°52'34"	W 90°22'06"
MID POINT	N 35°52'18"	W 90°22'06"
END JOB	N 35°53'27"	W 90°21'51"

GROSS LENGTH OF PROJECT	5882.42	FEET OR	1.04	MILES
NET " " ROADWAY	5886.20	" "	1.042	" "
NET " " BRIDGES	63.92	" "	0.002	" "
NET " " PROJECT	5882.42	" "	1.04	" "

P.E. 100567
NON-PART.

APPROVED



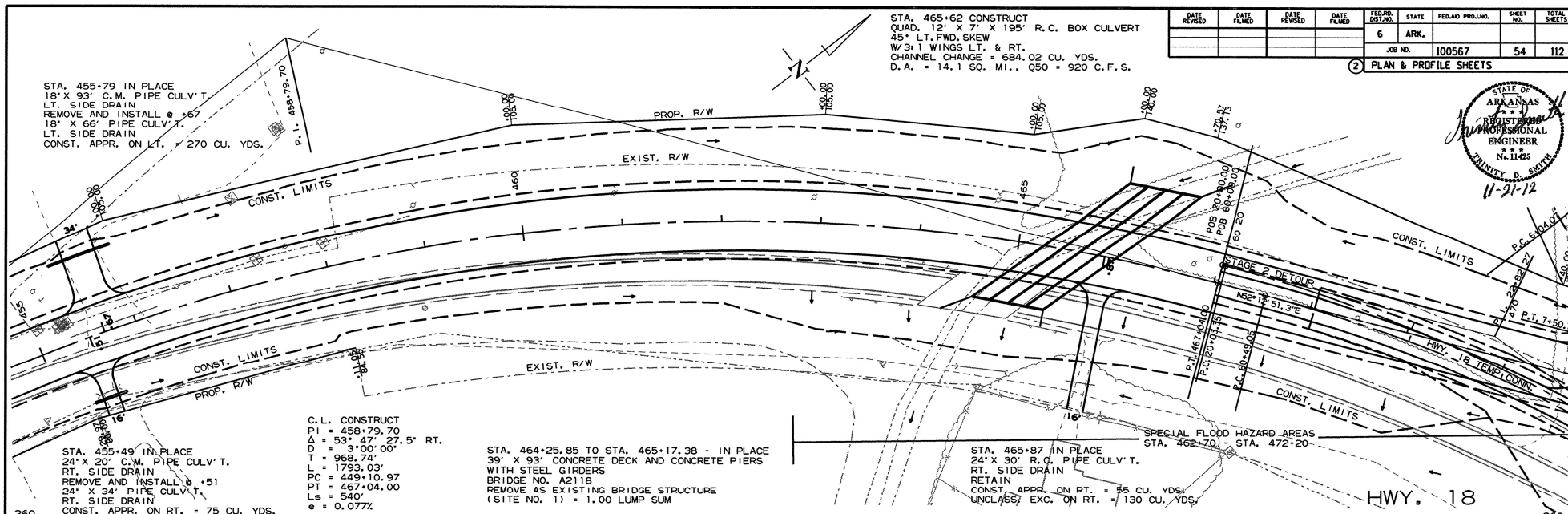
11/21/13
DEPUTY DIRECTOR
AND CHIEF ENGINEER

STA. 455+79 IN PLACE
18" X 93" C.M. PIPE CULV'T.
LT. SIDE DRAIN
REMOVE AND INSTALL @ +57
18" X 66" PIPE CULV'T.
LT. SIDE DRAIN
CONST. APPR. ON LT. = 270 CU. YDS.

STA. 465+62 CONSTRUCT
QUAD. 12' X 7' X 195' R.C. BOX CULVERT
45' LT. FWD. SKEW
W/3:1 WINGS LT. & RT.
CHANNEL CHANGE = 684.02 CU. YDS.
D.A. = 14.1 SQ. MI., Q50 = 920 C.F.S.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FIGURE NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		54	112

2 PLAN & PROFILE SHEETS



C.L. CONSTRUCT
PI = 458+79.70
Δ = 53° 47' 27.5" RT.
D = 3' 00' 00"
T = 968.74'
L = 1793.03'
PC = 449+10.97
PT = 467+04.00
LS = 540'
e = 0.077%

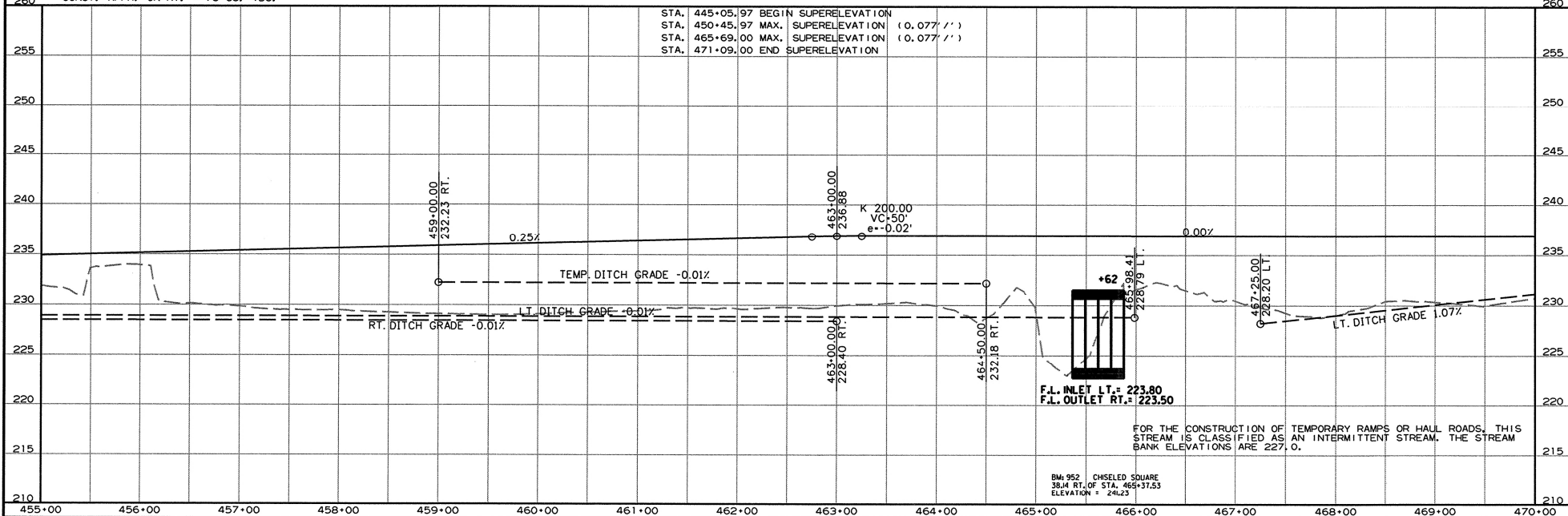
STA. 464+25.85 TO STA. 465+17.38 - IN PLACE
39' X 93' CONCRETE DECK AND CONCRETE PIERS
BRIDGE NO. A2118
REMOVE AS EXISTING BRIDGE STRUCTURE
(SITE NO. 1) = 1.00 LUMP SUM

STA. 465+87 IN PLACE
24" X 30" R.C. PIPE CULV'T.
RT. SIDE DRAIN
RETAIN
CONST. APPR. ON RT. = 55 CU. YDS.
UNCLAS. EXC. ON RT. = 130 CU. YDS.

STA. 445+05.97 BEGIN SUPERELEVATION
STA. 450+45.97 MAX. SUPERELEVATION (0.077' /')

STA. 465+69.00 MAX. SUPERELEVATION (0.077' /')

STA. 471+09.00 END SUPERELEVATION



F.L. INLET LT. = 223.80
F.L. OUTLET RT. = 223.50

FOR THE CONSTRUCTION OF TEMPORARY RAMPS OR HAUL ROADS, THIS
STREAM IS CLASSIFIED AS AN INTERMITTENT STREAM. THE STREAM
BANK ELEVATIONS ARE 227.0.

BM: 952 CHISED SQUARE
38.4 RT. OF STA. 465+31.53
ELEVATION = 241.23

MID-SECTION

INLET SLOPE SECTIONS

INLET SKEWED END SECTION

INLET WINGWALL TABLE

R.C. BOX SECTION									SECTION LENGTH (F.T.)	TOP SLAB REINFORCING STEEL										BOTTOM SLAB REINFORCING STEEL										SIDE WALL REINFORCING STEEL				INTERIOR WALL REINFORCING STEEL				TOP SLAB DISTRIBUTION REINF. STEEL				BOTTOM SLAB DISTRIBUTION REINF. STEEL				SIDE WALL DISTRIBUTION REINF. STEEL				INTERIOR WALL DISTRIBUTION REINF. STEEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
DESIGN FILL DEPTH (F.T.)		CLEAR SPAN (F.T.)		TOP SLAB THK.		BOTTOM SLAB THK.		SIDE WALL THK.		INTERIOR WALL THK.		OVER ALL WIDTH		OVER ALL HEIGHT		LENGTH = OW - 4' + BENDS										LENGTH = OW - 4' + BENDS										LENGTH = OH - 4'				LENGTH = OH - 4'				LENGTH = SL				LENGTH = SL				LENGTH = SL				LENGTH = SL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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R.C. BOX SECTION		DESIGN FILL DEPTH (Ft.)		CLEAR SPAN (Ft.)		TOP SLAB THK.		BOTTOM SLAB THK.		SIDE WALL THK.		INTERIOR WALL THK.		OVER ALL WIDTH		OVER ALL HEIGHT		SECTION LENGTH (Ft.)		TOP SLAB REINFORCING STEEL						BOTTOM SLAB REINFORCING STEEL						SIDE WALL REINFORCING STEEL "10"				INTERIOR WALL REINFORCING STEEL "11"				TOP SLAB DISTRIBUTION REINF. STEEL "8"				BOTTOM SLAB DISTRIBUTION REINF. STEEL "6"				SIDE WALL DISTRIBUTION REINF. STEEL "d1"				INTERIOR WALL DISTRIBUTION REINF. STEEL "d2"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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SK SKEW (DEGREE)	SL SLOPE	D DESIGN FILL DEPTH (FT.)	S SPAN (FT.)	H CLEAR HEIGHT (FT.)	FL SECTION LENGTH	T TOP SLAB THK.	HW HOWL THK.	B BOTTOM SLAB THK.	C SIDE WALL THK.	W INTERIOR WALL THK.	OW OVER ALL WIDTH	OH OVER ALL HEIGHT	TOP SLAB REINFORCING STEEL						BOTTOM SLAB REINFORCING STEEL						SIDE WALL REINFORCING STEEL			INTERIOR WALL REINFORCING STEEL			TOP SLAB DISTRIBUTION REINFORCING STEEL				BOTTOM SLAB DISTRIBUTION REINFORCING STEEL								
													a				c		d				f		f0			f1			g												
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45	3:1	15	12	7	27'-7"	15	3	16	7.5	8	51'-3"	9'-7"	5	5	Max	117	Max	147	Max	107	Max	74	7	9	74	9'-3"	4	12	172	9'-3"	5	11	119	4	6.5								
															50'-11"		50'-11"		50'-11"		50'-11"																						
															Min		Min		Min		Min																						
															2'-2"		2'-2"		2'-2"		1'-10"																						
k1						k2						h																															
SIZE		LENGTH		NO. REQ'D		SIZE		LENGTH		NO. REQ'D		SIZE		LENGTH		Y		NO. REQ'D		SIZE		LENGTH		Y		NO. REQ'D		SIZE		LENGTH		Y		NO. REQ'D		SIZE		LENGTH		Y		NO. REQ'D	
8		38'-4"		12		8		38'-4"		12		4		2'-2"		1'-2"		74																									

OVER ALL WIDTH		CLEAR HEIGHT		FOOTING THK.		WING WALL THK.		BOX SKEW (DEG.)		SLOPE		LENGTH		HEEL		WALL HEIGHT		WINGWALL ANGLE (DEGREE)		FOOTING W/TH AT WALL END		WIDTH OF WING FOOTINGS AT HDWL		FOOTING DIMENSION PARALLEL WITH HDWL		LENGTH OF WINGWALLS		INSIDE FOOTING DIMENSIONS				CLASS "S" CONCRETE (Includes agrs)		REINFORCING STEEL (Includes agrs and laps if required)	
OW	CH	WB	CW	SK	SL	K	WH	WH2	AF1	AF2	WE	WF1	WF2	G1	G2	W1	W2	W4	W5																
51'-3"	7'-0"	0'-9"	0'-8"	45	3:1	72'-6"	2'-4"	2'-4"	10'-0"	60	3'-2"	3'-6"	4'-2"	1'-5.34"	2'-8.12"	16'-6"	33'-0"	34'-10.36"	17.02	1511															

WING A	WING B	WING C		WING D		WING E		WING F		WING G		WING H		WING I		WING J		WING K		WING L		WING M		WING N		WING O		WING P		WING Q		WING R		WING S		WING T		WING U		WING V		WING W		WING X		WING Y		WING Z		WING AA		WING AB		WING AC		WING AD		WING AE		WING AF		WING AG		WING AH		WING AI		WING AJ		WING AK		WING AL		WING AM		WING AN		WING AO		WING AP		WING AQ		WING AR		WING AS		WING AT		WING AU		WING AV		WING AW		WING AX		WING AY		WING AZ		WING BA		WING BB		WING BC		WING BD		WING BE		WING BF		WING BG		WING BH		WING BI		WING BJ		WING BK		WING BL		WING BM		WING BN		WING BO		WING BP		WING BQ		WING BR		WING BS		WING BT		WING BU		WING BV		WING BW		WING BX		WING BY		WING BZ		WING CA		WING CB		WING CC		WING CD		WING CE		WING CF		WING CG		WING CH		WING CI		WING CJ		WING CK		WING CL		WING CM		WING CN		WING CO		WING CP		WING CQ		WING CR		WING CS		WING CT		WING CU		WING CV		WING CW		WING CX		WING CY		WING CZ		WING DA		WING DB		WING DC		WING DD		WING DE		WING DF		WING DG		WING DH		WING DI		WING DJ		WING DK		WING DL		WING DM		WING DN		WING DO		WING DP		WING DQ		WING DR		WING DS		WING DT		WING DU		WING DV		WING DW		WING DX		WING DY		WING DZ		WING EA		WING EB		WING EC		WING ED		WING EE		WING EF		WING EG		WING EH		WING EI		WING EJ		WING EK		WING EL		WING EM		WING EN		WING EO		WING EP		WING EQ		WING ER		WING ES		WING ET		WING EU		WING EV		WING EW		WING EX		WING EY		WING EZ		WING FA		WING FB		WING FC		WING FD		WING FE		WING FF		WING FG		WING FH		WING FI		WING FJ		WING FK		WING FL		WING FM		WING FN		WING FO		WING FP		WING FQ		WING FR		WING FS		WING FT		WING FU		WING FV		WING FW		WING FX		WING FY		WING FZ		WING GA		WING GB		WING GC		WING GD		WING GE		WING GF		WING GG		WING GH		WING GI		WING GJ		WING GK		WING GL		WING GM		WING GN		WING GO		WING GP		WING GQ		WING GR		WING GS		WING GT		WING GU		WING GV		WING GW		WING GX		WING GY		WING GZ		WING HA		WING HB		WING HC		WING HD		WING HE		WING HF		WING HG		WING HH		WING HI		WING HJ		WING HK		WING HL		WING HM		WING HN		WING HO		WING HP		WING HQ		WING HR		WING HS		WING HT		WING HU		WING HV		WING HW		WING HX		WING HY		WING HZ		WING IA		WING IB		WING IC		WING ID		WING IE		WING IF		WING IG		WING IH		WING IJ		WING IK		WING IL		WING IM		WING IN		WING IO		WING IP		WING IQ		WING IR		WING IS		WING IT		WING IU		WING IV		WING IW		WING IX		WING IY		WING IZ		WING JA		WING JB		WING JC		WING JD		WING JE		WING JF		WING JG		WING JH		WING JI		WING JJ		WING JK		WING JL		WING JM		WING JN		WING JO		WING JP		WING JQ		WING JR		WING JS		WING JT		WING JU		WING JV		WING JW		WING JX		WING JY		WING JZ		WING KA		WING KB		WING KC		WING KD		WING KE		WING KF		WING KG		WING KH		WING KI		WING KJ		WING KK		WING KL		WING KM		WING KN		WING KO		WING KP		WING KQ		WING KR		WING KS		WING KT		WING KU		WING KV		WING KW		WING KX		WING KY		WING KZ		WING LA		WING LB		WING LC		WING LD		WING LE		WING LF		WING LG		WING LH		WING LI		WING LJ		WING LK		WING LL		WING LM		WING LN		WING LO		WING LP		WING LQ		WING LR		WING LS		WING LT		WING LU		WING LV		WING LW		WING LX		WING LY		WING LZ		WING MA		WING MB		WING MC		WING MD		WING ME		WING MF		WING MG		WING MH		WING MI		WING MJ		WING MK		WING ML		WING MM		WING MN		WING MO		WING MP		WING MQ		WING MR		WING MS		WING MT		WING MU		WING MV		WING MW		WING MX		WING MY		WING MZ		WING NA		WING NB		WING NC		WING ND		WING NE		WING NF		WING NG		WING NH		WING NI		WING NJ		WING NK		WING NL		WING NM		WING NN		WING NO		WING NP		WING NQ		WING NR		WING NS		WING NT		WING NU		WING NV		WING NW		WING NX		WING NY		WING NZ		WING OA		WING OB		WING OC		WING OD		WING OE		WING OF		WING OG		WING OH		WING OI		WING OJ		WING OK		WING OL		WING OM		WING ON		WING OO		WING OP		WING OQ		WING OR		WING OS		WING OT		WING OU		WING OV		WING OW		WING OX		WING OY		WING OZ		WING PA		WING PB		WING PC		WING PD		WING PE		WING PF		WING PG		WING PH		WING PI		WING PJ		WING PK		WING PL		WING PM		WING PN		WING PO		WING PP		WING PQ		WING PR		WING PS		WING PT		WING PU		WING PV		WING PW		WING PX		WING PY		WING PZ		WING QA		WING QB		WING QC		WING QD		WING QE		WING QF		WING QG		WING QH		WING QI		WING QJ		WING QK		WING QL		WING QM		WING QN		WING QO		WING QP		WING QQ		WING QR		WING QS		WING QT		WING QU		WING QV		WING QW		WING QX		WING QY		WING QZ		WING RA		WING RB		WING RC		WING RD		WING RE		WING RF		WING RG		WING RH		WING RI		WING RJ		WING RK		WING RL		WING RM		WING RN		WING RO		WING RP		WING RQ		WING RR		WING RS		WING RT		WING RU		WING RV		WING RW		WING RX		WING RY		WING RZ		WING SA		WING SB		WING SC		WING SD		WING SE		WING SF		WING SG		WING SH		WING SI		WING SJ		WING SK		WING SL		WING SM		WING SN		WING SO		WING SP		WING SQ		WING SR		WING SS		WING ST		WING SU		WING SV		WING SW		WING SX		WING SY		WING SZ		WING TA		WING TB		WING TC		WING TD		WING TE		WING TF		WING TG		WING TH		WING TI		WING TJ		WING TK		WING TL		WING TM		WING TN		WING TO		WING TP		WING TQ		WING TR		WING TS		WING TT		WING TU		WING TV		WING TW		WING TX		WING TY		WING TZ		WING UA		WING UB		WING UC		WING UD		WING UE		WING UF		WING UG		WING UH		WING UI		WING UJ		WING UK		WING UL		WING 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OUTLET SLOPE SECTION(S)

Min. Bar Lap Length	
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-6"
#8	4'-7"

A circular professional engineer seal for the State of Arkansas. The seal contains the text "STATE OF ARKANSAS" at the top, "REGISTERED PROFESSIONAL ENGINEER" in the center, and "No. 7510" below it. The name "CARL Z. FUSELER" is written along the bottom inner edge. A handwritten signature "Carl Z. Fuseler" is written across the top half of the seal.

① Any Bar Lap Required for the Skewed End Section shall be considered subsidiary to the item "Reinforcing Steel - Roadway (Gr. 60)."

160.19	CU. YDS.	CLASS "S" CONCRETE (Includes HDWL.)
~~36972~~ 32,293	LBS.	① REINFORCING STEEL (GR 60) (Includes HDWL.)

② Bar Lap - Add one long, lap for each Slope Section, and one additional long, lap for Slope Sections greater than 40'-0" in length.

b100567.cl.dgn