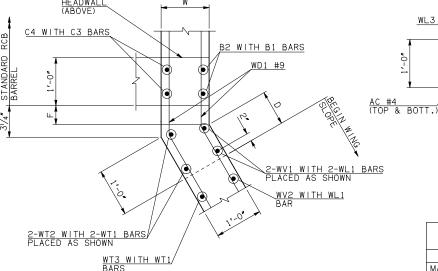


12' 12" 83/4" 0 HEADWALL



WINGWALL

DIMENSIONS SPAN W D F

DETAIL 'A'

1'-2"

AL2 #4 (TOP & BOTT)

AD1 #4 (TOP & BOTT.)

WL3 #5

AC #4 × 3'-8"

WINGWALL BAR LIST

ONE WINGWALL SHOWN; TWO REQUIRED MARK SIZE QTY. FORM LENGTH REMARKS WD1 #9 24 BNT 8'-4" WH1 #4 2 STR 44'-8" ② WH2 #4 24 STR 22'-101/2" AVG. 3'-10" TO 41'-11" WH3 #5 2 STR 45′-5″ WL1 #7 23 BNT 15'-5" WL2 #5 34 BNT 10'-9" WL3 #5 11 BNT 4'-91/2" AVG. WT1 #4 35 STR 2'-10"

WT2 #4 2 STR 13'-0" WT3 #4 11 STR 11'-5" AVG. 10'-0" TO 12'-10" WT4 | #4 | 22 | STR | 6'-7\/2" AVG. | 3'-7" TO 9'-8" WT5 #4 11 STR 2'-91/2" AVG. WV1 #5 2 STR 13'-0" WV2 #5 21 STR 11'-5" AVG. 10'-0" TO 12'-10" WV3 #5 22 STR 6'-7\/2" AVG.
U1 #4 1 BNT 3'-2"

PLAN OF WING AT BARREL

	APRON VARIABLES									
SPAN	DIM. R	DIM. Q	QTY. J	QTY. K	QTY.	Ν				
12'	40'-0"	42'-4"	21	18	44					
14'	46'-0"	45'-4"	26	13	50					
16'	52'-2"	48'-4"	32	7	56					
18'	58'-4"	51'-4"	37	2	62					
20'	64'-6"	54'-4"	39	0	68					

68

68

4'-4"

4'-3"

HALF APRON PLAN

56

56

4'-4"

4'-3"

APRON DETAIL

45'-8"

4'-4"

4'-3"

4

50

50

	APRON AND HEADWALL BAR LIST														
	ONE APRON AND ONE HEADWALL SHOWN														
12' SPAN		SPAN	14' SPAN			16' SPAN				18' SPAN			20' SPAN		
	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	
	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"		
	46'-8"		4	46'-8"		4	46'-8"		4	46'-8"		4	46'-8"		
	41'-5"		100	41'-5"		112	41'-5"		124	41'-5"		136	41'-5"		
	20'-8" AVG.	2'-6" TO 38'-10"	88	20'-8" AVG.	2'-6" TO 38'-10"	88	20'-8" AVG.	2'-6" TO 38'-10"	88	20'-8" AVG.	2'-6" TO 38'-10"	88	20'-8" AVG.	2'-6" TO 38'-10"	
	86′-10″ ③		4	92'-10" ③		4	98'-10" ③		4	104'-10" ③		4	110'-10" ③		
	74'-9" AVG.	63'-2" TO 86'-4"③	26	77'-101/2" AVG.	63'-5" TO 92'-4"③	32	80'-5" AVG.	62'-6" TO 98'-4" ③	37	83'-61/2" AVG.	62'-9" TO 104'-4"(3)	39	88'-4 ¹ / ₂ " AVG.	66'-5" TO 110'-4"③	
	74'-9" AVG.	63'-2" TO 86'-4"(3)	26	77'-101/2" AVG.	63'-5" TO 92'-4"(3)	32	80'-5" AVG.	62'-6" TO 98'-4"(3)	37	83'-6 ¹ / ₂ " AVG.	62'-9" TO 104'-4"(3)	39	88'-41/2" AVG.	66'-5" TO 110'-4"③	
	49'-9" AVG.	39'-11" TO 59'-7"	13	52'-10" AVG.	45'-11" TO 59'-9"	7	55'-41/2" AVG.	51'-11" TO 58'-10"	2	58'-6" AVG.	57'-11" TO 59'-1"	0			
	49'-9" AVG.	39'-11" TO 59'-7"	13	52'-10" AVG.	45'-11" TO 59'-9"	7	55'-41/2" AVG.	51'-11" TO 58'-10"	2	58'-6" AVG.	57'-11" TO 59'-1"	0			
	39'-8"		4	45'-8"		4	51'-10"	-	4	58'-0"		4	66'-8" (3)		

4'-4"

4'-3"

62

62

QUANTITIES										
ITEM	UNIT	12' SPAN	14' SPAN	16' SPAN	18' SPAN	20' SPAN				
CLASS AA CONCRETE	CY	132.00	142.20	152.70	163.10	173.20				
REINFORCING STEEL	LB	14780.00	15620.00	16440.00	17260.00	18070.00				

HALF APRON REINFORCING

39'-8"

4'-4"

4'-3"

MARK SIZE FORM

AD1 #4 STR

AL1 #4 STR

AT2 #4 STR

AT5 #5 STR

CL1 #4 BNT

AT1 #4

CH #4

1 AL2 #4 STR 88

STR

STR

AT3 #5 STR 21 AT4 #4 STR 18

CL2 #4 BNT 44

#4 BNT

QTY.

4

88

21

18

4

44

NOTE: QUANTITIES ABOVE ARE FOR ONE END SECTION, WHICH IS COMPRISED OF ONE HEADWALL, ONE APRON, AND TWO WINGWALLS.
INCLUDED IN REINFORCING STEEL PAY ITEM QUANTITY IS THE WEIGHT OF ADDITIONAL RCB BARREL REINFORCING STEEL REQUIRED AS SHOWN.

(1) 4-SETS OF 22-AL2 BARS REQUIRED 2 2-SETS OF 12-WH2 BARS REQUIRED

REVISIONS

AT1 #4 (TOP & BOTT.)

AT2 #4 (TOP) /AT3 #5 (BOTT.)

DESCRIPTION

3 INCLUDES 2'-6" LAP

Hole A. Rusch APPROVED BY BRIDGE ENGINEER **DATE** 4/09/09 OKLAHOMA DEPT. OF TRANSPORTATION

BRIDGE STANDARD (ENGLISH) RCB CULVERTS - END SECTION DETAILS TRIPLE CELL - 11'-0" HEIGHT - 0°

SHEET NO. 1 OF 2 1999 SPECIFICATIONS

RCB-E3-H11-0-1

00E <u>B-</u>644E