

	AND	HEADWALL	BAR	LIS

	ALTON AND HEADWALL BAN ETOT																	
		ONE APRON AND ONE HEADWALL SHOWN																
	MADIZ	CLZE	E FORM	12' SPAN		14' SPAN				16' SPAN		18' SPAN			20' SPAN			
	MARK	SIZE	FURM	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS	QTY.	LENGTH	REMARKS
	AC	#4	BNT	4	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"		4	3'-8"	
	AD1	#4	STR	4	50'-2"		4	50'-2"		4	50'-2"		4	50'-2"		4	50′-2″	
	AL1	#4	STR	32	44'-6"		36	44'-6"		40	44'-6"		44	44'-6"		48	44'-6"	
1	AL2	#4	STR	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"	92	21'-61/2" AVG.	2'-6" TO 40'-7"
	AT1	#4	STR	4	64'-4" ③)	4	66'-4" ③		4	68'-4" ③		4	70′-4″ ③		4	72'-4" (3)
	AT2	#4	STR	2	63'-3" AVG.	62'-8" TO 63'-10"(3)	3	64'-8" AVG.	63'-6" TO 65'-10"③	5	65'-6" AVG.	63'-2" TO 67'-10"(3)	7	66'-4" AVG.	62'-10" TO 69'-10"3	9	67'-21/2" AVG.	62'-7" TO 71'-10"(3
	AT3	#5	STR	2	63'-3" AVG.	62'-8" TO 63'-10"(3)	3		63'-6" TO 65'-10"③	5	65'-6" AVG.	63'-2" TO 67'-10"(3)	7	66'-4" AVG.	62'-10" TO 69'-10"(3)	9	67'-21/2" AVG.	62'-7" TO 71'-10"(3
	AT4	#4	STR	40	36'-51/2" AVG.	13'-11" TO 59'-0"	39	37'-101/2" AVG.	15'-11" TO 59'-10"	37	38'-8 ¹ / ₂ " AVG.	17'-11" TO 59'-6"	35	39'-7" AVG.	19'-11" TO 59'-3"	33	40'-5" AVG.	21'-11" TO 58'-11"
	AT5	#5	STR	40	36'-51/2" AVG.	13'-11" TO 59'-0"	39	37'-101/2" AVG.	15'-11" TO 59'-10"	37	38'-81/2" AVG.	17'-11" TO 59'-6"	35	39'-7" AVG.	19'-11" TO 59'-3"	33	40'-5" AVG.	21'-11" TO 58'-11"
	СН	#4	STR	4	13'-8"		4	15'-10"		4	18'-4"		4	20'-2"		4	22'-2"	
	CL1	#4	BNT	16	4'-4"		18	4'-4"		20	4'-4"		22	4'-4"		24	4'-4"	
	CL2	#4	BNT	16	4'-3"		18	4'-3"		20	4'-3"		22	4'-3"		24	4'-3"	

QUANTITIES						
ITEM	UNIT	12' SPAN	14' SPAN	16' SPAN	18' SPAN	20' SPAN
CLASS AA CONCRETE	CY	98.50	102.30	106.00	109.70	113.40
REINFORCING STEEL	LB	13850.00	14120.00	14420.00	14710.00	15000.00

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.

		C	NE W	INGWAL	L SHOWN; TWO	REQUIRED
	MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
	WD1	#9	26	BNT	8'-4"	
	WH1	#4	2	STR	48'-2"	
2)	WH2	#4	26	STR	24'-7 ¹ / ₂ " AVG.	3'-10" TO 45'-5"
	WH3	#5	2	STR	49'-1"	
	WL1	#8	29	BNT	17'-11"	
	WL2	#5	35	BNT	10'-9"	
	WL3	#5	10	BNT	4'-91/2" AVG.	3'-6" TO 6'-1"
	WT1	#4	39	STR	2'-10"	
	WT2	#4	2	STR	14'-0"	
	WT3	#4	14	STR	11'-11 ¹ /2" AVG.	10'-1" TO 13'-10"
	WT4	#4	23	STR	6'-8" AVG.	3'-6" TO 9'-10"
	WT5	#4	10	STR	2'-9 ¹ / ₂ " AVG.	1'-6" TO 4'-1"
	WV1	#6	2	STR	14'-0"	
	WV2	#6	27	STR	11'-11 ¹ /2" AVG.	10'-1" TO 13'-10"
	WV3	#5	23	STR	6'-8" AVG.	3'-6" TO 9'-10"
	U1	#4	1	BNT	3'-2"	

- 1 4-SETS OF 23-AL2 BARS REQUIRED
- 2 2-SETS OF 13-WH2 BARS REQUIRED

REVISIONS

DESCRIPTION

(TOP & BOTT.)

3 INCLUDES 2'-6" LAP

APPROVED BY BRIDGE ENGINEER Heled J. Musch

OKLAHOMA DEPT. OF TRANSPORTATION BRIDGE STANDARD (ENGLISH) RCB CULVERTS - END SECTION DETAILS

SINGLE CELL - 12'-0" HEIGHT - 0° SHEET NO. 1 OF 2

1999 SPECIFICATIONS

RCB-E1-H12-0-1

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DATE 4/09/09