



## CONCRETE ELLIPTICAL PIPE

DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 45° WINGS																								
DIMENSIONS									REINFORCING STEEL								QUANTITIES <sup>Δ</sup>							
W	H	Area Sq.Ft.	T	H <sub>1</sub>	K	L	M	N	A <sub>1</sub> -1/2" φ No.	A <sub>1</sub> -1/2" φ Lgth.	A <sub>2</sub> -1/2" φ No.	A <sub>2</sub> -1/2" φ Lgth.	B-1/2" φ No.	B-1/2" φ Lgth.	C-1/2" φ No.	C-1/2" φ Lgth.	H <sub>1</sub> -1/2" φ No.	H <sub>1</sub> -1/2" φ Lgth.	V <sub>1</sub> -1/2" φ No.	V <sub>1</sub> -1/2" φ Lgth.	V <sub>2</sub> -1/2" φ No.	V <sub>2</sub> -1/2" φ Lgth.	Class AA Conc. Cu. Yd.	Reinf. Steel Lbs.
30"	19"	3.3	3 1/4"	2'-10 1/4"	1'-4"	4'-10 1/4"	2'-6"	1'-9"	5	1'-5"	3	5'-8" AVG	7	4'-6 1/4"	4	1'-6"	8	2'-10 1/2"	12	3'-8" AVG	4	6'-4"	1.27	104.
38"	24"	5.1	3 3/4"	3'-33/4"	1'-10"	5'-6 1/4"	3'-1"	2'-1 1/2"	6	1'-10"	3	6'-9" AVG	7	5'-2 1/4"	4	1'-6"	12	3'-5 1/2"	16	4'-2" AVG	4	6'-10"	1.87	140.
42"	27"	6.3	3 3/4"	3'-63/4"	2'-0"	5'-10 1/4"	3'-5"	2'-4 1/4"	6	2'-1"	3	7'-1" AVG	7	5'-6 1/4"	4	1'-6"	12	3'-9 1/2"	16	4'-4 1/2" AVG	4	7'-1"	2.09	149.
45"	29"	7.4	4 1/2"	3'-9 1/2"	2'-2"	6'-1 1/4"	3'-8"	2'-7 1/8"	7	2'-3"	4	7'-9" AVG	7	5'-9 1/4"	4	1'-6"	12	4'-0 1/2"	16	4'-5 1/4" AVG	4	7'-3"	2.38	163.
53"	34"	10.2	5"	4'-3"	2'-6"	6'-9 1/4"	4'-3"	3'-0"	7	2'-8"	4	8'-8" AVG	7	6'-5 1/4"	5	1'-6"	12	4'-7 1/2"	20	4'-11 1/2" AVG	4	7'-9"	3.01	195.

Δ For One Headwall

### GENERAL NOTES

ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
509(A) 0319	CLASS AA CONCRETE FOR SMALL STRUCTURES	C. Y.
511(A) 0332	REINFORCING STEEL	LB.

DESIGN		<b>OKLAHOMA DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN DIVISION <b>HEADWALL FOR ELLIPTICAL PIPE</b> DETAIL SHEET
DRAWN		
CHECKED		
APPROVED		
SQUAD	GREEN	
STATE JOB NO. 24092(04) SHEET NO. R033		
CADD O. CO. SH-58		