



- NOTES:**
1. BEARING SURFACE OF ALL THRUST BLOCKS TO BE POURED AGAINST FIRM UNDISTURBED EARTH. (FULL BEARING STRENGTH)
 2. ALL CONCRETE TO BE 3000 P.S.I.
 3. SPECIAL DESIGN REQUIRED FOR PRESSURES EXCEEDING 200 PSI, SOIL PRESSURES LESS THAN 2000 PSF, AND FOR FITTINGS 18" AND LARGER.

PIPE SZ.	THRUST BLOCK DIMENSIONS															PIPE SZ.
	0° TO 11 1/4°			11 1/4° TO 22 1/2°			22 1/2° TO 45°			45° TO 90°			DEAD ENDS & TEES			
	HORIZ. L1 L2	VERT. VOL. CY	VERT. REBAR	HORIZ. L1 L2	VERT. VOL. CY	VERT. REBAR	HORIZ. L1 L2	VERT. VOL. CY	VERT. REBAR	HORIZ. L1 L2	VERT. VOL. CY	VERT. REBAR	HORIZ. L1 L2	VERT. VOL. CY		
6"	1.0 x 1.0	0.4	#6	1.0 x 1.5	0.8	#6	1.5 x 2.0	1.5	#6	2.0 x 3.0	2.7	#6	2.0 x 2.0	1.9	6"	
8"	1.0 x 1.5	0.6	#6	1.5 x 2.0	1.3	#6	2.0 x 3.0	2.5	#6	3.0 x 3.5	4.7	#6	2.5 x 3.0	3.3	8"	
10"	1.0 x 2.0	1.1	#6	2.0 x 2.0	2.1	#6	3.0 x 3.0	4.1	#6	4.0 x 4.0	7.6	#8	3.0 x 4.0	5.4	10"	
12"	1.5 x 2.0	1.5	#6	2.0 x 2.0	3.0	#6	3.0 x 4.0	5.9	#6	4.5 x 5.0	10.8	#8	4.0 x 4.0	7.6	12"	
14"	2.0 x 2.0	2.0	#6	3.0 x 3.0	4.0	#6	4.0 x 4.0	8.0	#8	6.0 x 5.5	14.7	#8	4.5 x 5.0	10.4	14"	
16"	2.0 x 3.0	2.6	#6	3.0 x 3.5	5.2	#6	4.5 x 5.0	10.3	#8	7.0 x 5.5	19.0	#10	5.0 x 5.5	13.4	16"	

TABLE BASED ON 200 PSI PRESSURE AND 2000 PSF ALLOWABLE SOIL BEARING PRESSURE.

Revision	By	Approved	Date
09/11/00	kal		
08/06/04	AC		
09/30/15	IN		
07/01/17	SM		08/01/17

CITY OF OCEANSIDE

TYPICAL THRUST BLOCK

Steven E. Strapac 9/17/17
CITY ENGINEER Date

STANDARD DRAWING NO. **RW-20**