

**TABLE 1**

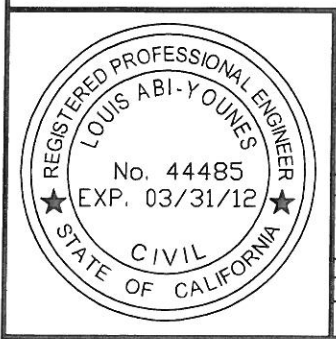
WATER MAIN	CASING INSIDE DIAMETER	WALL THICKNESS	WATER MAIN	CASING INSIDE DIAMETER	WALL THICKNESS
6"	14"	1/4"	12"	20"	3/8"
8"	16"	1/4"	14"	22"	3/8"
10"	18"	3/8"	OVER 14"	REQUIRES ENG. APPROVAL	

**SAND CUSHION SCHEDULE - DIMENSION "B"**

PIPE DEPTH	LESS THAN 3'	MORE THAN 3'
	(B) DIMENSION SHALL BE MIN. 12" IF (A) DIMENSION IS 2' OR LESS	(B) DIMENSION SHALL BE MIN. 6" IF (A) DIMENSION IS MORE THAN 3'

**NOTES**

- ① IF THIS IS A HIGH POINT, IT MAY REQUIRE AIR AND VACUUM RELEASE VALVE ASSEMBLIES ON BOTH SIDES OF THE STRUCTURE.
- ② IF DEFLECTION IS MORE THAN 1/2 PIPE DIAMETER, INSTALL BLOW-OFF ASSEMBLY AT THE LOW POINT PER STD. DWG. NO. 4013.
- ③ ALL JOINTS SHALL BE FULLY WELDED FOR A DISTANCE OF 120', UNLESS OTHERWISE ALLOWED.
- ④ MAXIMUM ALLOWABLE ANGLE FOR FITTINGS = 45° .
- ⑤ NO JOINTS SHALL BE ALLOWED, MINIMUM OF 10 FEET.



APPROVED BY:		11-27-10	
<i>Louis Abi-Younes</i>		44485	
LOUIS ABI-YOUNES, CITY ENGINEER	RCE	DATE	
RECOMMENDED:		10/25/10	
<i>Scott Burton</i>		57875	
SCOTT BURTON, UTILITIES ENG/ OPERATIONS DIRECTOR	RCE	DATE	
REV	DESCRIPTION	BY	APP'D DATE

**CITY OF ONTARIO**

**RELOCATION OF WATER MAIN AND FIRE HYDRANT LATERALS (CONDITION 2)**

STANDARD DRAWING NUMBER  
**4008**