



SAND CUSHION SCHEDULE - DIMENSION "B"

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

IF DIMENSION (A) IS LESS THAN 24", PIPE SHALL BE INSTALLED PER CONDITION 2 (STD. DWG. NO. 4008).

NOTES

- (1) MAXIMUM ALLOWABLE ANGLE FOR FITTINGS = 45°.
- (2) MAXIMUM ALLOWABLE PIPE JOINT DEFLECTION SHALL BE PER THE PIPE MANUFACTURER'S RECOMMENDATIONS.
- (3) IF A RETURN TO THE DESIGNED PIPE DEPTH BY DEFLECTION CAN NOT BE ACCOMPLISHED WITHIN TWO STANDARD PIPE LENGTHS (36'), PIPE FITTINGS AND APPURTENANCES WILL BE REQUIRED, UNLESS OTHERWISE NOTED OR DIRECTED IN THE FIELD.
- (4) AIR & VACUUM RELEASE VALVE ASSEMBLY INSTALLATION MAY BE REQUIRED WHEN THE VERTICAL DISTANCE IS EQUAL TO ONE PIPE DIAMETER OR MORE AS INDICATED BY ENGINEERING DESIGN.
- (5) PIPE SHALL BE CML&C STEEL, UNLESS OTHERWISE SPECIFIED.
- (6) NO VALVE ASSEMBLIES SHALL BE INSTALLED WITHIN THE DEFLECTED AREAS.
- (7) IF LOW POINT IN SYSTEM, A BLOW-OFF ASSEMBLY SHALL BE INSTALLED PER STD. DWG. 4013.
- (8) ALL JOINTS SHALL BE FULLY WELDED FOR A DISTANCE OF 120', UNLESS OTHERWISE ALLOWED.
- (9) NO JOINTS ALLOWED, MINIMUM OF 10 FEET.



APPROVED BY:		11-22-10	
<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 1)

STANDARD
DRAWING
NUMBER

4007