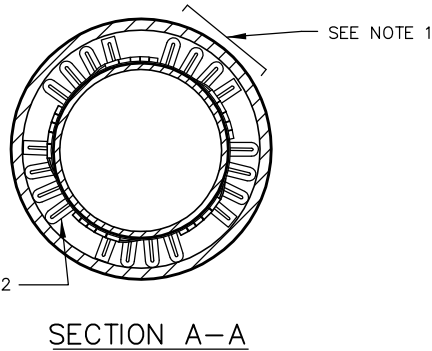


TYPICAL CROSSING
POLYETHYLENE SPACER



RECOMMENDED CASING SIZE				
WATERMAIN DIAMETER (mm)		GRAVITY SEWERMAIN DIAMETER (mm)	CASING DIAMETER (mm)	CASING WALL THICKNESS (mm)
PVC	PE	PVC	STEEL	STEEL
N/A	200	N/A	400	9.53
200	250	200	450	9.53
250	300	250	500	9.53
300	350	300	550	9.53
350	400	375	650	9.53
400	N/A	N/A	750	9.53
450	N/A	450	800	9.53
500	N/A	525	900	9.53
600	N/A	600	1050	12.70
750	N/A	N/A	1230	12.70
N/A	N/A	675	1050	12.70

N/A = NOT APPLICABLE

NOTES:

1. NUMBER OF SPACER ELEMENTS REQUIRED TO COMPLETE ONE RING AS PER MANUFACTURER'S RECOMMENDATIONS.
2. ELEMENT SUPPORT HEIGHT VARIES FOR SMALL TO LARGE PIPE, AS PER MANUFACTURER'S RECOMMENDATIONS.
3. CASING END SEAL TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE INDICATED.
4. CATHODIC PROTECTION ON STEEL CASING AS PER GSSS 442. (ONE 14.5 Kg PACKAGED MAGNESIUM ANODE AT EACH END OF THE CASING.)
5. FOR OTHER CARRIER PIPE MATERIAL, A SITE SPECIFIC CASING DESIGN WILL BE NECESSARY.
6. APPROVED RESTRAINED JOINTS TO BE INSTALLED ON WATERMAIN THROUGH CASING. RESTRAINTS TO HAVE 4 NUTS PER BOLT. (SEE ENLARGEMENT) CORROSION PROTECTION SHALL BE APPLIED.



STEEL CASING FOR
PIPE INSTALLATION

DRAWN BY: LRC/SAG	REV No: 2
DATE: 2003-03-03	REV DATE: 2016-02-26
SCALE: NTS	CAD/FILE No.: A1973-1 (1 OF 1)
APP'D:	GSSD-1106.030

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