

SANITITE® HP TRENCH INSTALLATION DETAIL

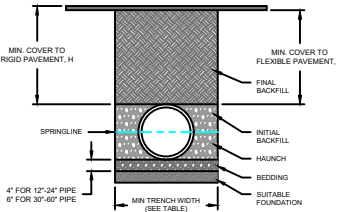


TABLE 1. RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH	PIPE DIAM.	MIN. TRENCH WIDTH
12\"/>			

TABLE 2. MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

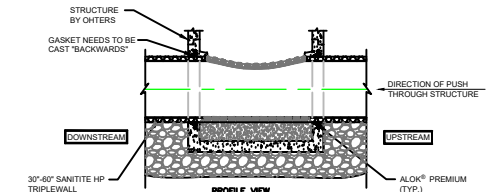
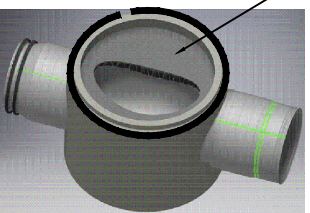
PIPE DIAM.	SURFACE LOAD (MINIMUM CONDITION)	
	CLASS I	CLASS II
12\"/>		

TABLE 3. MAXIMUM COVER FOR ADS SANITITE HP PIPE, R (in)

PIPE DIAM.	CLASS I		CLASS II	
	COMPACTED	95%	90%	95%
12\"/>				

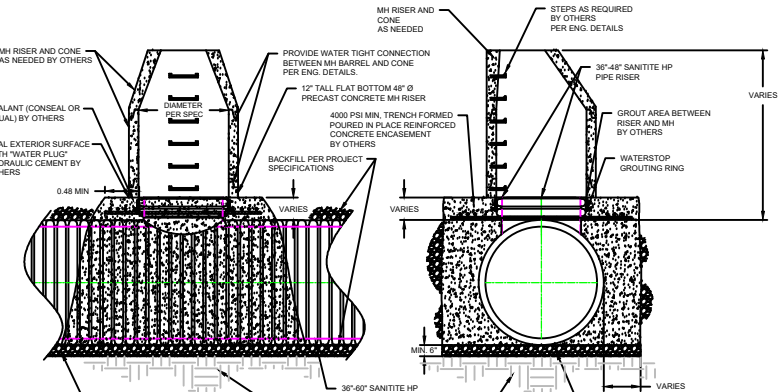
- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
 - FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACT TO BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4\"/>

ALTERNATE PRECAST MANHOLE CONNECTION WITH SANITITE® HP PIPE



- NOTES:**
- AFTER PIPE IS INSERTED THROUGH MANHOLE, POUR CONCRETE AROUND PIPE IN MANHOLE.
 - CUT SECTION FROM TOP OF PIPE AND REMOVE IN FIELD FOR PIPE ACCESS.
 - FILL ALL OPEN CORRUGATION VOIDS WITH NON-SHRINK GROUT, ENSURING GROUT FILLS THE VOID SPACE ALL THE WAY AROUND CIRCUMFERENCE.
 - STRUCTURE DIAMETER & WALL THICKNESS BY ENGINEER.
 - REFER TO ALOK® RECOMMENDATION FOR PROPER GASKET & MANDREL SIZING.
 - PIPE TO BE INSERTED INTO STRUCTURE ABOVE GRADE AND LOWERED IN THE TRENCH AS ONE UNIT.

ACCESS MH DETAIL WITH SANITITE® HP PIPE



- NOTES:**
- REFERENCES TO "DESIGN ENGINEER" OR "ENG DETAILS" REFER TO THE ENGINEER OF RECORD AND PROJECT PLANS FOR THE SPECIFIC SANITARY SEWER PROJECT.
 - STEEL REINFORCING AND CONCRETE ENCASEMENT SHALL BE DESIGNED BY OTHERS (ENGINEER OF RECORD, CONTRACT ENGINEER, ETC.) FOR THE SPECIFIC PROJECT AND SITE CONDITIONS.
 - SANITITE HP PIPE RISER (36\"/>

COMPRESSION (CAST-IN) RESILIENT STRUCTURE CONNECTION 12\"/>

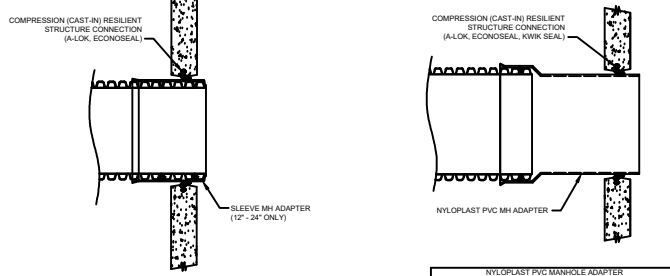


TABLE 1. NYLOPLAST PVC MANHOLE ADAPTER

PIPE SIZE	NYLOPLAST PRODUCT CODES		ALOK® PREMIUM CONNECTOR **	PRESS SEAL® SYSTEMS	
	12\"/>				
12\"/>					

- NOTES:**
- PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST ENSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.
 - SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE 5:04 CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.
 - NYLOPLAST PVC ADAPTER OD EQUIVALENT TO SDR 35

COMPRESSION (CAST-IN) RESILIENT STRUCTURE CONNECTION 30\"/>

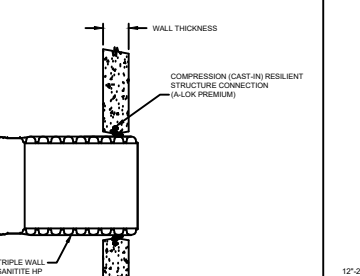
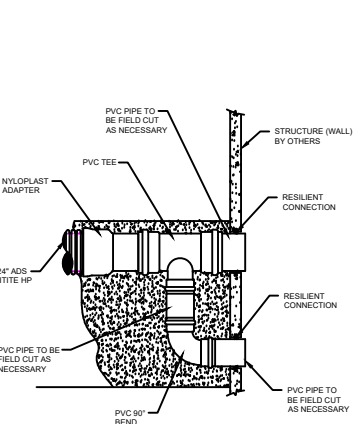


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	30\"/>				
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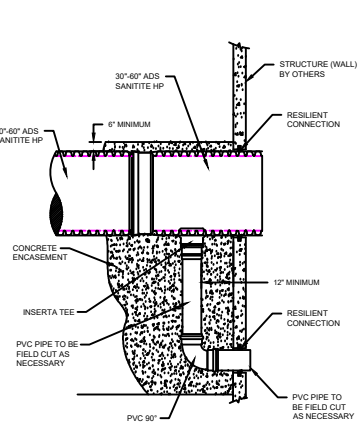
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12\"/>



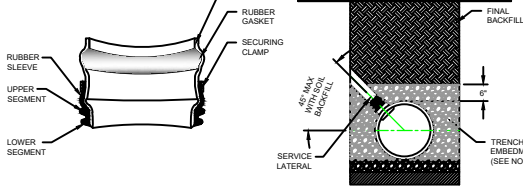
STD-208

30\"/>



STD-209

INSERTA TEE® INSTALLATION



- NOTES:**
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 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
 - THE INSERTA TEE CONNECTION SHOULD NOT BE PLACED AT AN ANGLE EXCEEDING 45° FROM THE SPRINGLINE. GREATER ANGLES ARE SUBJECT TO DESIGN ENGINEER APPROVAL AND MAY REQUIRE ALTERNATE BACKFILL.
 - FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4\"/>

BOOTED (CORED OR CAST HOLE) RESILIENT STRUCTURE CONNECTION 12\"/>

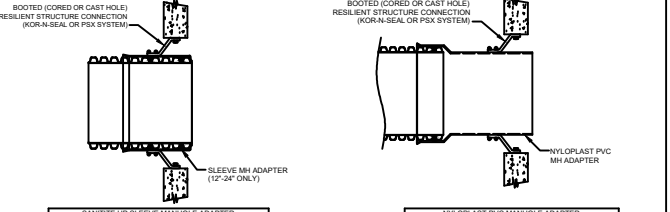


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 - NYLOPLAST PVC ADAPTER OD EQUIVALENT TO SDR 35

BOOTED (CAST-IN) RESILIENT STRUCTURE CONNECTION 12\"/>

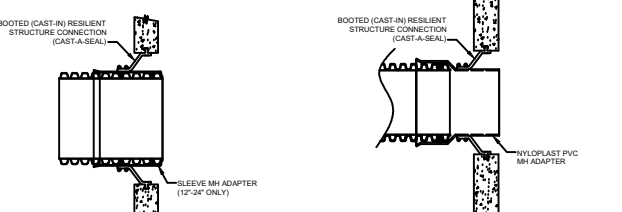


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BOOTED (CORED OR CAST HOLE) RESILIENT STRUCTURE CONNECTION 30\"/>

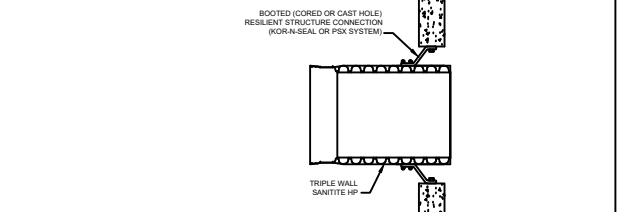


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POST INSTALLATION TESTING

DEFLECTION TESTING: WHEN TESTING FOR ALLOWABLE DEFLECTION LIMITS, THE MINIMUM SPECIFIED INSIDE DIAMETER SHOULD BE USED WHEN ESTABLISHING MANDREL SIZING. TABLE 1 LISTS THE INSIDE DIAMETERS THAT RESULT FROM 0% DEFLECTION BASED UPON THE MINIMUM INSIDE DIAMETER. MANDRELS MAY BE OBTAINED FROM A VARIETY OF COMMERCIAL SUPPLIERS.

LEAKAGE TESTING: SANITITE HP MAY BE TESTED IN ACCORDANCE WITH ASTM F1417 "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR". TABLE 2 BELOW SUMMARIZES THE MINIMUM TIME THAT MUST BE REACHED FOR LESS THAN 0.5 OR 1.0 PSI OF PRESSURE DROP, DEPENDING ON THE DIAMETER AND LENGTH OF PIPE BEING TESTED, IN ACCORDANCE WITH ASTM F1417. WHEN THE PIPE IS LARGE ENOUGH TO BE PHYSICALLY ACCESSED, IT MAY BE DESIRABLE TO TEST INDIVIDUAL JOINTS FOR SAFETY REASONS. IN THESE CASES, CONSIDER JOINT TESTING IN ACCORDANCE WITH ASTM F3086.

TABLE 1. SANITITE HP RECOMMENDED MANDREL SETTINGS

PIPE DIAMETER	PIPE TYPE	NOSE DIAMETER WITH 5% DEFLECTION	
		12\"/>	
12\"/>			

- NOTES:**
- BASED UPON MINIMUM INSIDE DIAMETER PER ASTM F2736 & F2764.
 - DATA TAKEN FROM ASTM F1417 AND UNI-BELL UNI-B-6-98.

Drawn: ALI Date: 05/01/20
Revision: 4 Dwg No: STD-1300

SANITITE HP STANDARD DETAILS

