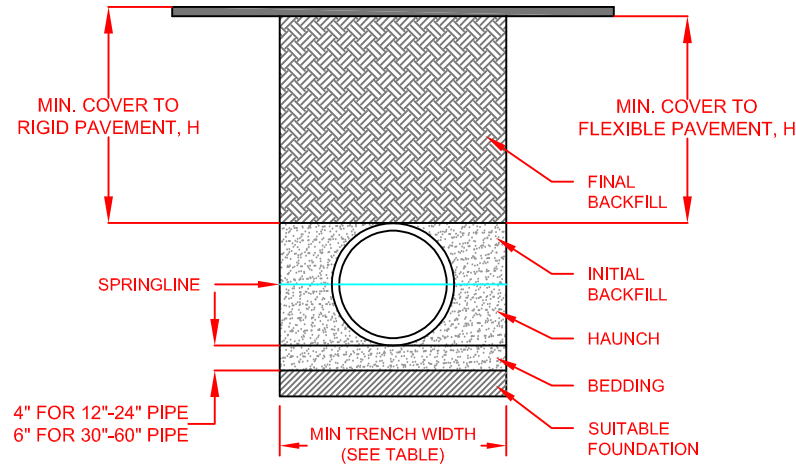


HP STORM TRENCH INSTALLATION DETAIL



NOTES:

1. 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 ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF AASHTO M145.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A COARSE SAND GRADATION (OR OTHER SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER) UP TO THE BEDDING LAYER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. **BEDDING:** SUITABLE MATERIAL SHALL BE A1, A2, OR A3 SOIL (PER FDOT SPECIFICATIONS) IN THE BEDDING ZONE EXTENDING TO THE INVERT OF THE PIPE. ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% SPD. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 12"-24" DIAMETER PIPE AND 6" FOR 30"-60" DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
5. **INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE A1, A2, OR A3 SOIL (PER FDOT SPECIFICATIONS) IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% SPD.
6. **MINIMUM COVER:** PER FDOT SPECIFICATIONS, MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 24" FOR PIPE UP TO 48" IN DIAMETER AND 30" FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. **MAXIMUM COVER:** PER FDOT SPECIFICATIONS, MAXIMUM COVER, H, IS CONSISTENT BETWEEN TRAFFIC AND NON-TRAFFIC APPLICATIONS AND DEPENDENT ON PIPE SIZE. REFERENCE TABLE 1 FOR MAXIMUM FILL HEIGHTS ACROSS APPLICABLE DIAMETERS.

TABLE 1: ALLOWABLE COVER FOR HP PIPE PER FDOT SPECIFICATIONS, ft

PIPE DIAMETER	PAVED COVER		UNPAVED COVER	
	MIN.	MAX.	MIN.	MAX.
12"	2.0	21.0	1.0	21.0
15"	2.0	22.0	1.0	22.0
18"	2.0	19.0	1.0	19.0
24"	2.0	16.0	1.0	16.0
30"	2.0	19.0	1.0	19.0
36"	2.0	16.0	1.0	16.0
42"	2.0	15.0	1.0	15.0
48"	2.0	15.0	1.0	15.0
60"	2.5	16.0	1.0	16.0

FILL HEIGHT TABLE GENERATED USING AASHTO LRFD SECTION 12, NINTH EDITION, 2020, WITH THE FOLLOWING ASSUMPTIONS:
 NO HYDROSTATIC PRESSURE
 UNIT WEIGHT OF SOIL (γs) = 120 PCF

TABLE 2: RECOMMENDED MINIMUM TRENCH WIDTHS, in

PIPE DIAMETER	MIN. TRENCH WIDTH
12"	30
15"	34
18"	39
24"	48
30"	56
36"	64
42"	72
48"	80
60"	96

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

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**HP TRENCH INSTALLATION DETAIL
FLORIDA DOT**

DRAWING NUMBER: 101FDOT



4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DRAWN BY:	GGC
DATE:	04/27/26
CHK'D BY:	SD
SCALE:	NTS
SHEET:	1 OF 1