



MINIMUM RECOMMENDED COVER (H)
FOR TYPICAL AIRCRAFT LOADING

INSIDE DIAMETER (ID)	COVER (H)
12"- 36" (300mm-900mm)	24" (610mm)
42"-60" (1050mm-1500mm)	36" (914mm)

MINIMUM RECOMMENDED TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (750mm)
15" (375mm)	34" (875mm)
18" (450mm)	39" (1000mm)
24" (600mm)	48" (1200mm)
30" (750mm)	56" (1425mm)
36" (900mm)	64" (1625mm)
42" (1050mm)	72" (1825mm)
48" (1200mm)	80" (2025mm)
60" (1500mm)	96" (2450mm)

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 ADDITION
- 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.
- 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" (100mm) FOR 12"-24" (300mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE ASTM D2321 CLASS I OR II UNLESS STATED OTHERWISE BY THE DESIGN ENGINEER. MINIMUM COMPACTION SHALL BE:

CLASS 1, COMPACT IN PLACE, 8" LOOSE LIFTS WITH JUMPING JACK OR SMALL VIBRATORY COMPACTOR
CLASS 2, COMPACT IN PLACE, 8" LOOSE LIFTS TO MIN. 95% STANDARD PROCTOR DENSITY
- MAX LOAD:** MAXIMUM ALLOWABLE AIRCRAFT LOAD AT MIN. COVER DEPENDS ON THE LANDING GEAR CONFIGURATION AND THE SPECIFIC PAVEMENT SECTION. THE MINIMUM VALUES PROVIDED WITHIN ARE SUITABLE FOR HEAVY AIRCRAFT IN THE US WITH TYPICAL AIRPORT PAVEMENT SECTIONS. FOR ADDITIONAL INFO ON ALLOWABLE AIRCRAFT LOADS, SEE STD-111G OR CONTACT YOUR LOCAL ADS REPRESENTATIVE.

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3	ADDED COVER TABLE, REV. CALLOUTS	BSW	07/07/22	JKL
REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

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**TRENCH INSTALLATION DETAIL
AIRCRAFT (HP STORM)**

DRAWING NUMBER: STD-101H



4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DRAWN BY:	ECM
DATE:	9/2/15
CHECKED BY:	
SCALE:	NTS
SHEET:	1 OF 1