

NOTES:

- 1. HIGH DENSITY POLYETHYLENE PIPE SHALL MEET AASHTO M294 OR ASTM F2306.
- 2. 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
- 3. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED. ALL OPEN-GRADED (POORLY GRADED) BACKFILL SHALL BE WRAPPED WITH 8 OZ. (MINIMUM) WOVEN GEOTEXTILE FABRIC
- 4 FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE UNSUITABLE MATERIAL TO THE REQUIRED DEPTH AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE DESIGN ENGINEER. DEPTH OF FOUNDATION IMPROVEMENT MAY BE REDUCED BY USE OF GEOTEXTILE FABRIC AND GRID. REQUIRED TRENCH WIDTH MAY INCREASE WHEN FOUNDATION MATERIAL IS MODIFIED.
- 5. BEDDING: SUITABLE MATERIAL SHALL BE ASTM D2321 CLASS I, II OR III. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm). THE MIDDLE THIRD OF THE BEDDING SHALL BE LOOSE AND UNIFORM IN DEPTH AND CONSISTANCY. AFTER PIPE IS IN PLACE, COMPACT BEDDING TO EMBEDMENT BACKFILL STANDARDS.
- 6. EMBEDMENT BACKFILL: SUITABLE MATERIAL SHALL BE ASTM D2321 CLASS I OR II UNLESS STATED OTHERWISE BY THE DESIGN ENGINEER. MINIMUM COMPACTION SHALL BE:
 - CLASS I, COMPACT IN PLACE, 8" LOOSE LIFTS WITH JUMPING JACK OR SMALL VIBRATORY COMPACTOR CLASS II. COMPACT IN PLACE, 8" LOOSE LIFTS TO MIN, 95% STANDARD PROCTOR DENSITY
- 7. THE CONTRACTOR SHOULD PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATIONS TO DESIGN ENGINEER.
- 8. AS BACKFILL IS BEING PLACED, WORK BACKFILL INTO HAUNCH ZONE BY SHOVELING IN PLACE AND DIAGONALLY WALKING (STOMPING) THE SOIL INTO THE HAUNCH ZONE. THIS EFFORT WILL MAKE VERTICAL COMPACTION MORE EFFECTIVE.

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM. MIN. TRENCH WIDTH					
4"	21"				
(100mm)	(533mm)				
6"	23"				
(150mm)	(584mm)				
8"	26"				
(200mm)	(660mm)				
10"	28"				
(250mm)	(711mm)				
12"	30"				
(300mm)	(762mm)				
15"	34"				
(375mm)	(864mm)				
18"	39"				
(450mm)	(991mm)				
24"	48"				
(600mm)	(1219mm)				
30"	56"				
(750mm)	(1422mm)				
36"	64"				
(900mm)	(1626mm)				
42"	72"				
(1050mm)	(1829mm)				
48"	80"				
(1200mm)	(2032mm)				
60"	96"				
(1500mm)	(2438mm)				

TABLE 2 MINIMUM RECOMMENDED COVER 1,3 BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80 ²		
UP TO 24"	24" (610mm)		
(600mm)			
30" - 36"	36"		
(750mm-900mm)	(914mm)		
42" - 60"	48"		
(1050mm-1500mm)	(1219mm)		

- 1. COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.
- 2. LOADS GREATER THAN E-80 LOAD MAY REQUIRE ADDITIONAL COVER.
- 3. MINIMUM COVER MAY BE INCREASED TO PREVENT PIPE DAMAGE DUE TO ROUTINE TRACK MAINTENANCE.

7	REV. DETAIL & NOTES	JEK	05/15/25		
REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D	

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RAILWAY TRENCH INSTALLATION DETAIL (HDPE)

DRAWING NUMBER: STD-107A



4640 TRUEMAN BLVD HILLIARD, OHIO 43026

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