



1. KUSTOMFLO PROFILE-WALL HDPE PIPE.
2. MINIMUM TRENCH WIDTH MUST ALLOW FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER PIPE. MINIMUM WIDTH SHALL BE $1.25 \times \text{DIAMETER} + 12"$ (PER ASTM D2321)
3. FOUNDATION SHALL BE WELL CONSOLIDATED AND STABLE.
4. BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 4" MINIMUM IN DEPTH. IF ROCK OR UNYIELDING MATERIAL IS PRESENT IN THE TRENCH BOTTOM, PROVIDE A CUSHION OF BEDDING, WITH A 6" MINIMUM THICKNESS BELOW THE BOTTOM OF THE PIPE.
5. INITIAL BACKFILL FOR PIPE EMBEDMENT MATERIAL TO MEET ASTM D2321 CLASS I, II, III, OR APPROVED EQUAL, COMPACTED TO MIN. 90% STANDARD PROCTOR (NATIVE MATERIAL CAN BE UTILIZED THAT MEETS ASTM D2321 OR APPROVED EQUAL.) ALL LIFTS PLACED IN CONTROLLED MANNER. TO PREVENT UNEVEN LOADING, IT IS RECOMMENDED THAT LIFTS NOT EXCEED 8" UNCOMPACTED LIFT HEIGHTS.
6. HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION.
7. HEIGHT OF COMPACTED COVER PER DIAMETER FOR CONVENTIONAL HIGHWAY LOADS (DISTANCE MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT):
 - 7.1. 12" MINIMUM FOR PIPE DIAMETERS 24" - 60"
 - 7.2. 18" MINIMUM FOR PIPE DIAMETERS 66" - 72"
 - 7.3. 24" MINIMUM FOR PIPE DIAMETERS 84" - 96"
8. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS PER THE PROJECT PLANS, SPECIFICATIONS, AND ENGINEER OF RECORD.

NOTES:

- GEOTEXTILE SHALL BE USED AS REQUIRED TO PREVENT SOIL MIGRATION
- FOR MULTIPLE BARREL INSTALLATION, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE = PIPE DIAMETER/2 OR 3' FOR PIPE DIAMETERS 72" AND LARGER. CONTACT YOUR SOLENO REPRESENTATIVE AT (518) 682-0527 FOR NONSTANDARD SPACING.
- FOR MULTIPLE BARREL INSTALLATION, BACKFILL SHALL BE INSTALLED EVENLY ACROSS THE ROWS. BACKFILLING AND COMPACTION SHALL BE PERFORMED EQUALLY ON BOTH SIDES OF EACH PIPE, ALONG THE ENTIRE LENGTH OF THE TRENCH.
- BACKFILL REQUIREMENTS SHALL FOLLOW ASTM D2321. IN THE EVENT OF DISCREPANCIES, ASTM D2321 SHALL SUPERCEDE THIS DETAIL.



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TRENCH BACKFILL

DETAIL NUMBER	SCALE	DRAWN DATE	BY
D25-01	N.T.S.	2025-03-14	TRD

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