



NOTES:

1. DUCTILE IRON PIPE SHALL BE ENCASED BY POLYETHYLENE TUBING.
2. THE TUBE MUST BE VIRGIN MATERIAL, V-BIO, CONSISTING OF THREE (3) CO-EXTRUDED LAMINATIONS OF LINEAR LOW DENSITY POLYETHYLENE (LLDPE), FUSED INTO A SINGLE THICKNESS NOT LESS THAN EIGHT (8) MILS. THE INSIDE SURFACE OF THE V-BIO WRAP IN CONTACT WITH THE PIPE EXTERIOR SHALL BE INFUSED WITH A BLEND OF AN ANTIMICROBIAL BIOCIDE TO MITIGATE MICROBIOLOGICALLY INFLUENCED CORROSION AND A VOLATILE CORROSION INHIBITOR TO CONTROL GALVANIC CORROSION. THE MIDDLE LAMINATION SHALL BE OF A THICK IMPERMEABLE MATERIAL DESIGNED TO PROTECT AND ENHANCE THE INNER LAMINATION. THE OUTER LAMINATION SHALL BE OF A LIGHT COLOR.
3. THE POLYETHYLENE ENCASEMENT MUST MEET ALL THE REQUIREMENTS OF ANSI A21.5 (AWWA C105).
4. CIRCUMFERENTIAL WRAPS OF PLASTIC ZIP TIES OR APPROVED EQUAL BY ENGINEER ARE TO BE PLACED AT FOUR (4) FOOT INTERVALS ALONG THE BARREL OF THE PIPE TO MINIMIZE THE SPACE BETWEEN THE POLYETHYLENE WRAPPING AND THE PIPE.
5. COMPLETE THE INSTALLATION BY OVERLAPPING THE POLYETHYLENE TUBE WRAP AT EACH END AT LEAST TWELVE (12) INCHES AND SEAL THE ENDS WITH PLASTIC ZIP TIES OR APPROVED EQUAL.
6. ALL BAGS MUST BE A MINIMUM OF TWENTY-TWO (22) FEET IN LENGTH AND OVERSIZED IN DIAMETER TO FIT OVER FITTINGS.
7. INSTALLATION OF TUBING SHALL BE PER DIPRA - MODIFIED METHOD A.
8. THIS STANDARD APPLIES TO ALL DUCTILE IRON PIPE INSTALLATION METHODS INCLUDING OPEN CUT, DIRECTIONAL DRILLING AND PLACEMENT IN A CASING.

POLYETHYLENE TUBE WRAPPING DETAIL



northbrook
Public Works Department

DATE	REVISIONS
1-9-19	Revised Notes
5-1-23	Revised Callouts

**STANDARD DETAIL
W-13 (02)**