

POLYETHYLENE ENCASEMENT

NOT TO SCALE

The City Of Goshen
Department of Public Works & Safety
Office of Engineering

204 East Jefferson, Suite 1 Street, Goshen, Indiana 46528
Phone: 574-534-2201 Fax: 574-533-8626
Web: goshenindiana.org

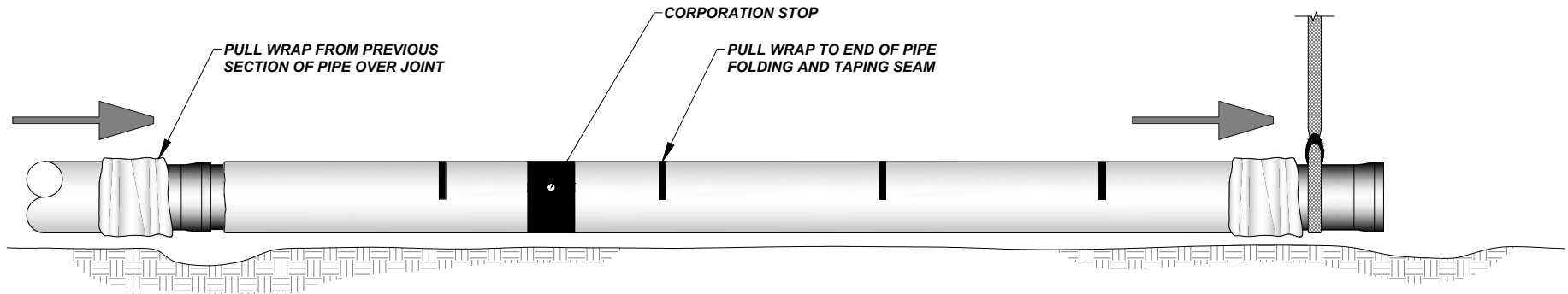
Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Revisions

03/27/2025

CITY OF GOSHEN, INDIANA
STANDARD DETAIL

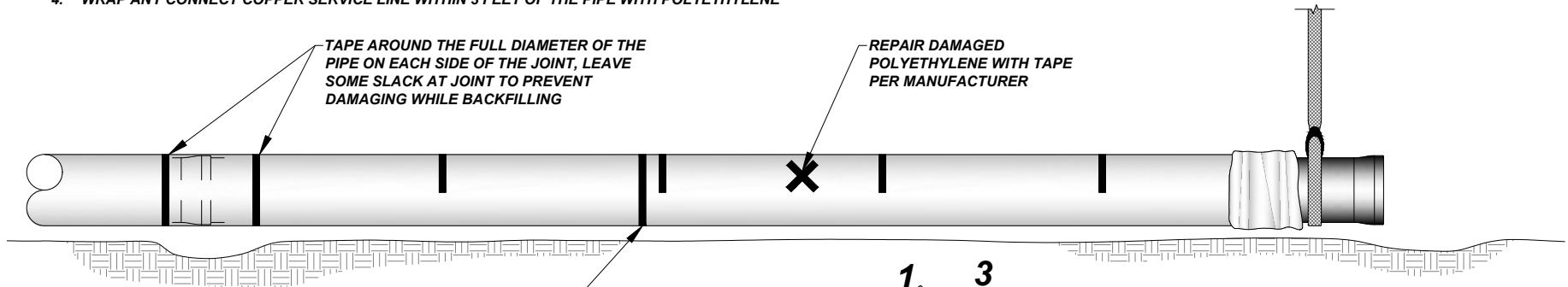
Drafted By: J. Hoffman
Approved By: D. Sailor, P.E.
Drawing Number: **WA-106**

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CORPORATION STOP INSTALLATION:

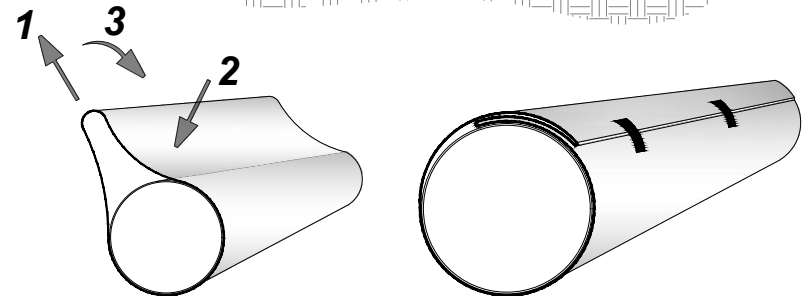
1. WRAP 2 TO 3 LAYERS OF POLYETHYLENE ADHESIVE TAPE COMPLETELY AROUND THE PIPE TO COVER THE AREA THE TAPPING MACHINE AND CHAIN WILL BE MOUNTED
2. MOUNT THE TAPPING MACHINE, MAKE THE TAP AND INSTALL THE CORPORATION STOP
3. REMOVE THE TAPPING MACHINE AND CHECK FOR DAMAGE TO THE TAPE AND POLYETHYLENE, MAKE NECESSARY REPAIRS
4. WRAP ANY CONNECT COPPER SERVICE LINE WITHIN 3 FEET OF THE PIPE WITH POLYETHYLENE



TAPE AROUND THE FULL DIAMETER OF THE PIPE WITHIN A WET TRENCH

NOTE:

1. GO TO DIPRA.ORG FOR INSTALLATION DETAILS INCLUDING TAPS AND SEALING AROUND APPARATUS



SEAM FOLD AND TAPE SEQUENCE

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DRY TRENCH INSTALLATION:

1. CUT A SECTION OF POLYETHYLENE TUBE APPROXIMATELY 24" LONGER THAN THE PIPE SECTION. CLEAN DEBRIS FROM THE SURFACE OF THE PIPE. SLIP THE POLYETHYLENE TUBE AROUND THE PIPE, STARTING AT THE SPIGOT END. BUNCH THE TUBE ACCORDION FASHION ON THE END OF THE PIPE. PILL BACK THE OVERHANGING END OF THE TUBE AND CIRCUMFERENTIALLY TAPE IT TO THE BARREL OF THE PIPE BEHIND THE INSERTION LINE. AFTER ASSEMBLY OF THE JOINT, THE TAPE SHOULD BE AS CLOSE TO THE FACE OF THE BELL AS POSSIBLE, BUT NOT SO CLOSE TO THE SPIGOT END THAT IT INTERFERES WITH THE GASKET
2. TAKE UP THE SLACK IN THE TUBE ALONG THE BARREL TO MAKE A SNUG, BUT NOT TIGHT, FIT. FOLD EXCESS POLYETHYLENE BACK OVER THE TOP OF THE PIPE AND USE PIECES OF TAPE ACROSS THE FOLD TO SECURELY HOLD IT. THIS STEP IS EXTREMELY IMPORTANT TO AVOID THE SAGGING OF THE FILM AT THE BOTTOM OF THE PIPE
3. DIG A SHALLOW BELL HOLE IN THE TRENCH BOTTOM AT THE JOINT LOCATION TO FACILITATE INSTALLATION OF THE POLYETHYLENE TUBE. LOWER THE PIPE INTO THE TRENCH AND MAKE UP THE PIPE JOINT WITH THE PRECEDING SECTION OF PIPE
4. MOVE THE CABLE/STRAP TO THE BELL END OF THE PIPE AND LIFT THE PIPE SLIGHTLY TO PROVIDE ENOUGH CLEARANCE TO EASILY SLIDE THE TUBE OVER THE REMAINING BARREL OF THE PIPE. SNUGLY FOLD OVER THE EXCESS WRAP USING TAPE TO HOLD IT IN PLACE. MAKE SURE THAT NO DIRT OR OTHER BEDDING MATERIALS BECOME TRAPPED BETWEEN THE WRAP AND PIPE
5. SECURE THE POLYETHYLENE IN PLACE BEHIND THE PRECEDING BELL BY USING A CIRCUMFERENTIAL WRAP OF TAPE. MAKE THE OVERLAP OF THE POLYETHYLENE TUBE BY PULLING BACK THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE AND ENSURE THERE IS AT LEAST A 24" OVERLAP
6. PLACE ANOTHER CIRCUMFERENTIAL WRAP OF TAPE ON THE OVERLAPPING POLYETHYLENE, SECURING IT TO THE SPIGOT SIDE OF THE JOINT
7. REPAIR ALL SMALL RIPS, TEARS, OR OTHER TUBE DAMAGE WITH ADHESIVE TAPE. IF THE POLYETHYLENE IS BADLY DAMAGED, REPAIR THE DAMAGED AREA WITH A SHEET OF POLYETHYLENE AND SEAL THE EDGES OF THE REPAIR WITH ADHESIVE TAPE
8. CAREFULLY BACKFILL THE TRENCH ACCORDING TO THE PROCEDURES IN AWWA C600 STANDARDS. TO PREVENT DAMAGE DURING BACKFILLING, ALLOW ADEQUATE SLACK IN THE TUBE AT THE JOINT. BACKFILL SHOULD BE FREE OF CINDERS, ROCKS, BOULDERS, NAILS, STICKS OR OTHER MATERIALS THAT MIGHT DAMAGE THE POLYETHYLENE. AVOID DAMAGING THE POLYETHYLENE WHEN USING TAMPING DEVICES

WET TRENCH INSTALLATION:

1. CUT A SECTION OF POLYETHYLENE TUBE APPROXIMATELY 24" LONGER THAN THE PIPE SECTION. CLEAN DEBRIS FROM THE SURFACE OF THE PIPE. SLIP THE POLYETHYLENE TUBE AROUND THE PIPE, STARTING AT THE SPIGOT END. BUNCH THE TUBE ACCORDION FASHION ON THE END OF THE PIPE. PILL BACK THE OVERHANGING END OF THE TUBE AND CIRCUMFERENTIALLY TAPE IT TO THE BARREL OF THE PIPE BEHIND THE INSERTION LINE. AFTER ASSEMBLY OF THE JOINT, THE TAPE SHOULD BE AS CLOSE TO THE FACE OF THE BELL AS POSSIBLE, BUT NOT SO CLOSE TO THE SPIGOT END THAT IT INTERFERES WITH THE GASKET
2. TAKE UP THE SLACK IN THE TUBE ALONG THE BARREL TO MAKING A SNUG FIT AND FOLD OVER THE EXCESS POLYETHYLENE. APPLY CIRCUMFERENTIAL WRAPS OF TAPE EVERY 24" INCHES UNTIL YOU RUN OUT OF ROOM. THIS IS EXTREMELY IMPORTANT TO AVOID THE SAGGING OF THE FILM AT THE BOTTOM OF THE PIPE
3. DIG A SHALLOW BELL HOLE IN THE TRENCH BOTTOM, LOWER THE PIPE AND MAKE UP THE JOINT. SLIDE THE WIRE/STRAP TO THE BELL END AND LIFT SLIGHTLY TO PROVIDE CLEARANCE TO SLIDE THE ENCASEMENT TO THE END. CONTINUE TO SNUGLY FOLD OVER AND TAPE AT 24" INTERVALS TO SECURE THE POLYETHYLENE
4. MAKE THE OVERLAP OF THE POLYETHYLENE TUBE BY PILLING BACK THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE AND ENSURE THERE IS AT LEAST A 12" OVERLAP. SECURE THE POLYETHYLENE WITH A CIRCUMFERENTIAL WRAP OF TAPE AT THE OVERLAP AND BEHIND THE PRECEDING BELL
5. REPAIR ALL SMALL RIPS, TEARS, OR OTHER TUBE DAMAGE WITH ADHESIVE TAPE. IF THE POLYETHYLENE IS BADLY DAMAGED, REPAIR THE DAMAGED AREA WITH A SHEET OF POLYETHYLENE AND SEAL THE EDGES OF THE REPAIR WITH ADHESIVE TAPE
6. CAREFULLY BACKFILL THE TRENCH ACCORDING TO THE PROCEDURES IN AWWA C600 STANDARDS. TO PREVENT DAMAGE DURING BACKFILLING, ALLOW ADEQUATE SLACK IN THE TUBE AT THE JOINT. BACKFILL SHOULD BE FREE OF CINDERS, ROCKS, BOULDERS, NAILS, STICKS OR OTHER MATERIALS THAT MIGHT DAMAGE THE POLYETHYLENE. AVOID DAMAGING THE POLYETHYLENE WHEN USING TAMPING DEVICES

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