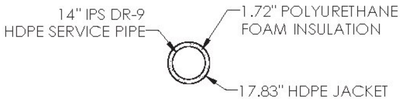
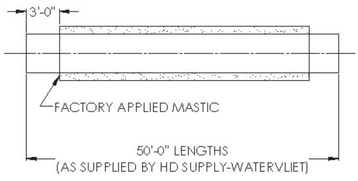
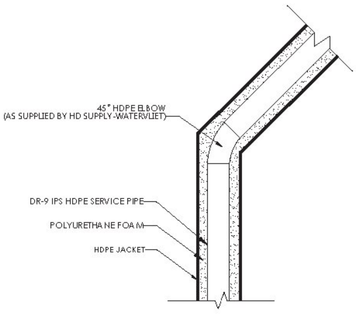
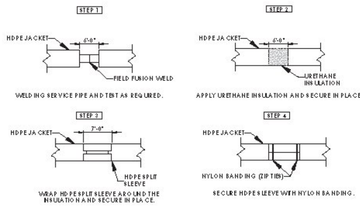


END VIEW
NOT TO SCALE





PREFABRICATED 45° ELBOW DETAIL
NOT TO SCALE



FIELD JOINT DETAIL
NOT TO SCALE

TRICON HDPE SYSTEM SPECIFICATIONS:

Service Pipe:
All service pipes shall be High Density Polyethylene (HDPE)with the properties as listed below. Pipe and fittings are manufactured from polyethylene and fabricated to Standard Dimension Ratio (SDR) wall thickness. Outside diameters to be IPS.

HDPE carrier pipe materials & properties:
Std. Spec. for Polyethylene Plastic Pipe
(SDR-PR) based on OD: ASTM F-714
Resin Type III, Grade P34, Cat. 5, CL C ASTM D-3350
Long Term Hydrostatic Strength 1600 psi ASTM D-2837
Std. PE for Water Distribution 4"-63" AWWA C-906

Insulation:
The insulation shall be a foamed in place closed cell polyurethane which completely fills the annular space between the carrier pipe and the exterior casing with a 1" minimum thickness. Meets requirements for UL94 HF-1 rating. The insulation shall have the following physical properties:

Minimum Density (lb./cu. ft.) 2.0	ASTM D-1621
90-95 % Closed Cell	ASTM D-6226
"K" Factor BTU/hr. sq. ft. °F/in 16	ASTM C-518
Compressive Strength	ASTM D- 1621

Exterior Casing: *
The casing shall be High Density Polyethylene (HDPE) with the following properties:

Resin Type III, Grade P34	ASTM D-3350
Tensile Yield Strength 3300 psi	ASTM D-638
Ultimate Elongation 850% (min)	ASTM D-638
Tangent Flexural Modulus 175,000 psi	ASTM D-790

Sub-Assemblies:
All fittings shall be HDPE, factory insulated and fusion welded to the HDPE service pipe and sealed to the outer jacket. Field installed fittings are insulated and sealed with Tricon supplied insulation kits.

Field Joints:
After thermal butt fusion welding and hydrostatic testing of the carrier pipe, HDPE jacketed straight field joints shall be insulated with polyurethane foam half-shells to the thickness specified, and sealed water-tight with a heat shrink sleeve.

Installation:
No Piping shall be installed in standing water. Trenches shall be maintained dry until final field closure is complete. The installing contractor shall handle the piping system in accordance with the directions furnished by the manufacturer and as approved by the architect and engineer. The carrier piping shall be hydrostatically tested to 1-1/2 times the operating pressure, or as specified in the contract documents. The test shall be maintained for a minimum time of 1 hour.
EXERCISE DUE CARE IN INSTALLING AND TESTING THE PIPING SYSTEM

Backfill:
A 4-inch layer of sand or fine gravel shall be placed and tamped in the trench to provide stable and uniform bedding for the piping system. Once the system is in place, the trenches shall be carefully backfilled and hand tamped in 6" layers until a cover of at least 24" from the top of the pipe has been achieved. The first 12" of backfill shall be sand or fine gravel less than ½" in diameter. The remainder of the backfill shall be void of rocks, frozen earth and foreign material over 2" in diameter. The trench shall be compacted to comply with H-20 Highway loading.

TRICON Piping Systems, Inc.®
2 TRICNHOLDER BOULEVARD | P.O. BOX 343
CANADBOIA, NY 14424 | 877.877.2697 | 585.657.6758
WWW.TRICONPIPING.COM

DRAWN BY	RAH
CHECKED BY	HIR
PRODUCT	WATER
SERVICE	HDPE DR-9 (IPS)
TEMPERATURE (°F)	*
PRESSURE (PSIG)	

PROJECT: Middlebury Bridge
Middlebury, VT
MIDDLEBURY, VT

DRAWING: DETAIL SHEET

CUSTOMER: HD SUPPLY - WATERVLIET
14 ARCH ST SUITE 1
WATERVLIET, NY 12189
p (518) 273-6300 | f

NOTES:

DATE	DRAWING	REV
5/23/2017	H 17-20344-VT	0

SIZE	SCALE	DRAWING NO	SHEET
D	NTS	D1	3 OF 3