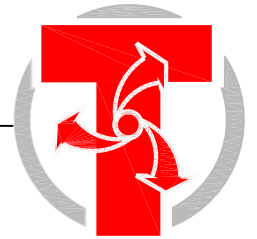
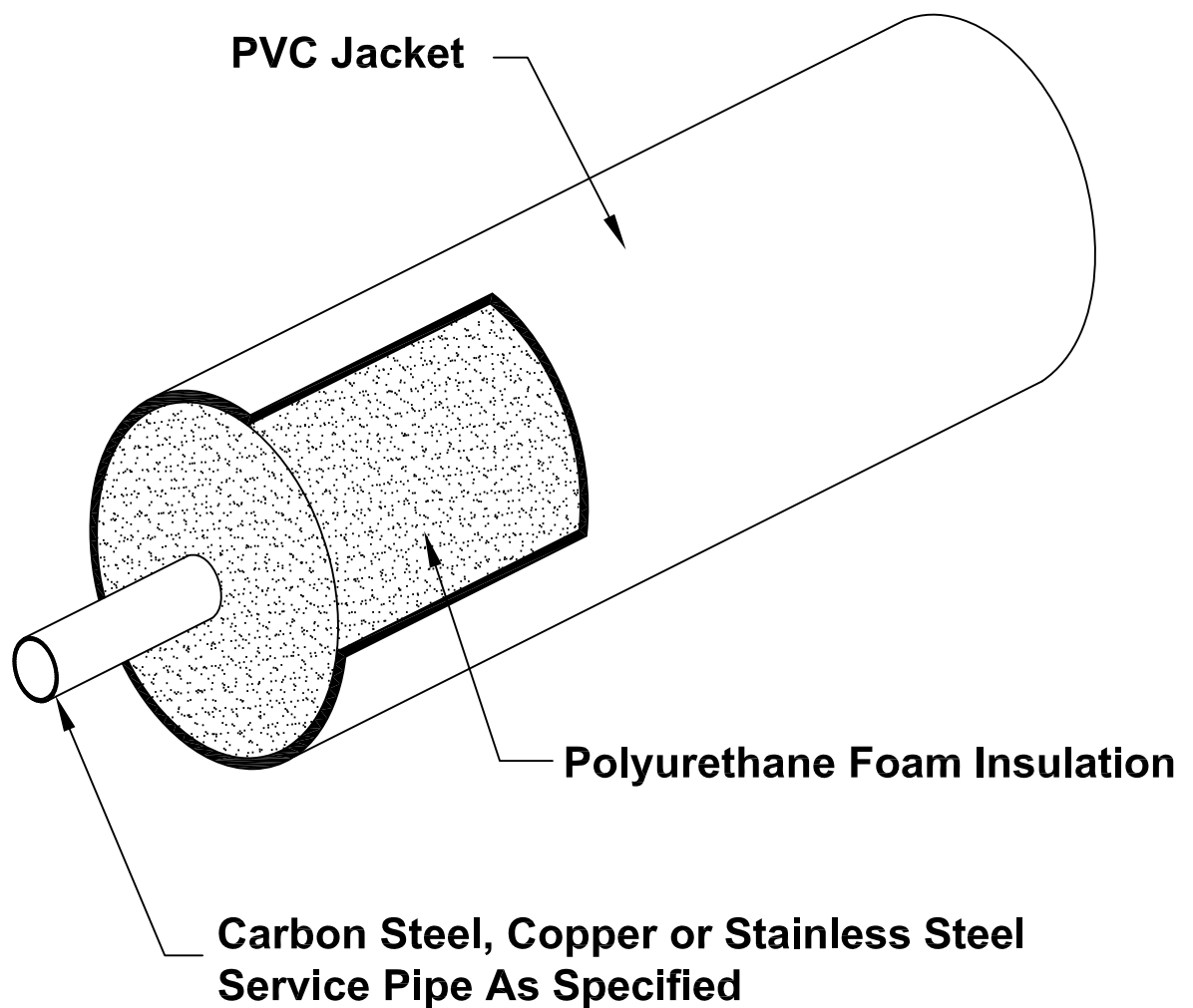


TRICON SUB-ZERO PIPE SYSTEM



For Applications down to -350°F for Above Ground

- Co2
- LN2
- Refrigeration



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TABLE 1

Pipe Size	Minimum Insulation Thickness	PVC Jacket O.D.	PVC Jacket Wall
1/2"	2.68"	6.12"	.070"
3/4"	2.56"	6.12"	.070"
1"	3.43"	8.16"	.070"
1 1/4"	3.31"	8.16"	.070"
1 1/2"	2.94"	8.16"	.070"
2"	2.94"	8.16"	.070"
2 1/2"	3.69"	10.20"	.070"
3"	3.44"	10.20"	.070"
4"	3.94"	12.24"	.080"
6"	3.94"	14.32"	.100"

Service Pipe:

Carbon steel service pipe shall be standard weight A333 welded or seamless beveled for welding. Copper service pipe shall be Type "K", hard drawn copper tubing to ASTM B-88 and WWT-799. Straight lengths of piping will be supplied in 20 ft. lengths. Straight lengths of piping will be supplied with 6" of piping exposed at each end for field joint fabrication.

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. The insulation shall have the following physical properties:
 Minimum Density (lb./cu. ft.) 2.0 ASTM D-1621,
 90-95 % Closed Cell ASTM D-2856
 "K" Factor BTU/Hr. sq. ft. °F/in. 147 ASTM C-177

Exterior Casing:*

The exterior casing shall be seamless, extruded white PVC Type 1, Grade 1, Class 12454-B per ASTM D-1784

Sub-Assemblies:

All fittings, end seals, other sub-assemblies shall be prefabricated or field fabricated dependant upon engineer's option and/or site conditions.

Field Joints:

After soldering/welding and hydrostatic testing, PVC jacketed straight field joints shall be insulated with polyurethane foam to the thickness specified, PVC sleeve and pressure sensitive tape.

TABLE 2

Pipe Size	Minimum Insulation Thickness	PVC Jacket O.D.	PVC Jacket Wall
1/2" + 1/2"	2.25"	8.16"	.080"
3/4" + 3/4"	2.08"	8.16"	.080"
1" + 1"	2.58"	10.20"	.100"
1 1/4" + 1 1/4"	2.42"	10.20"	.100"
1 1/2" + 3/4"	2.50"	10.20"	.100"
1 1/2" + 1"	2.42"	10.20"	.100"
1 1/2" + 1 1/2"	2.92"	12.24"	.120"
2" + 1"	2.92"	12.24"	.120"
2" + 1 1/2"	2.75"	12.24"	.120"
2" + 2"	3.25"	14.32"	.140"
2 1/2" + 1 1/2"	3.25"	14.32"	.140"

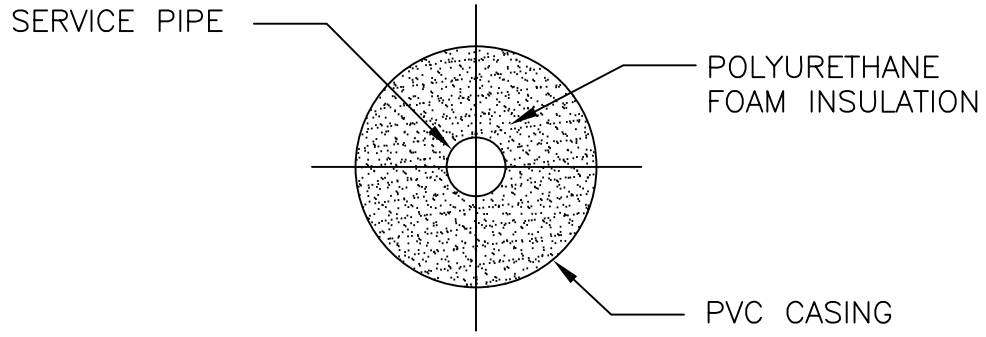
Installation:

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.

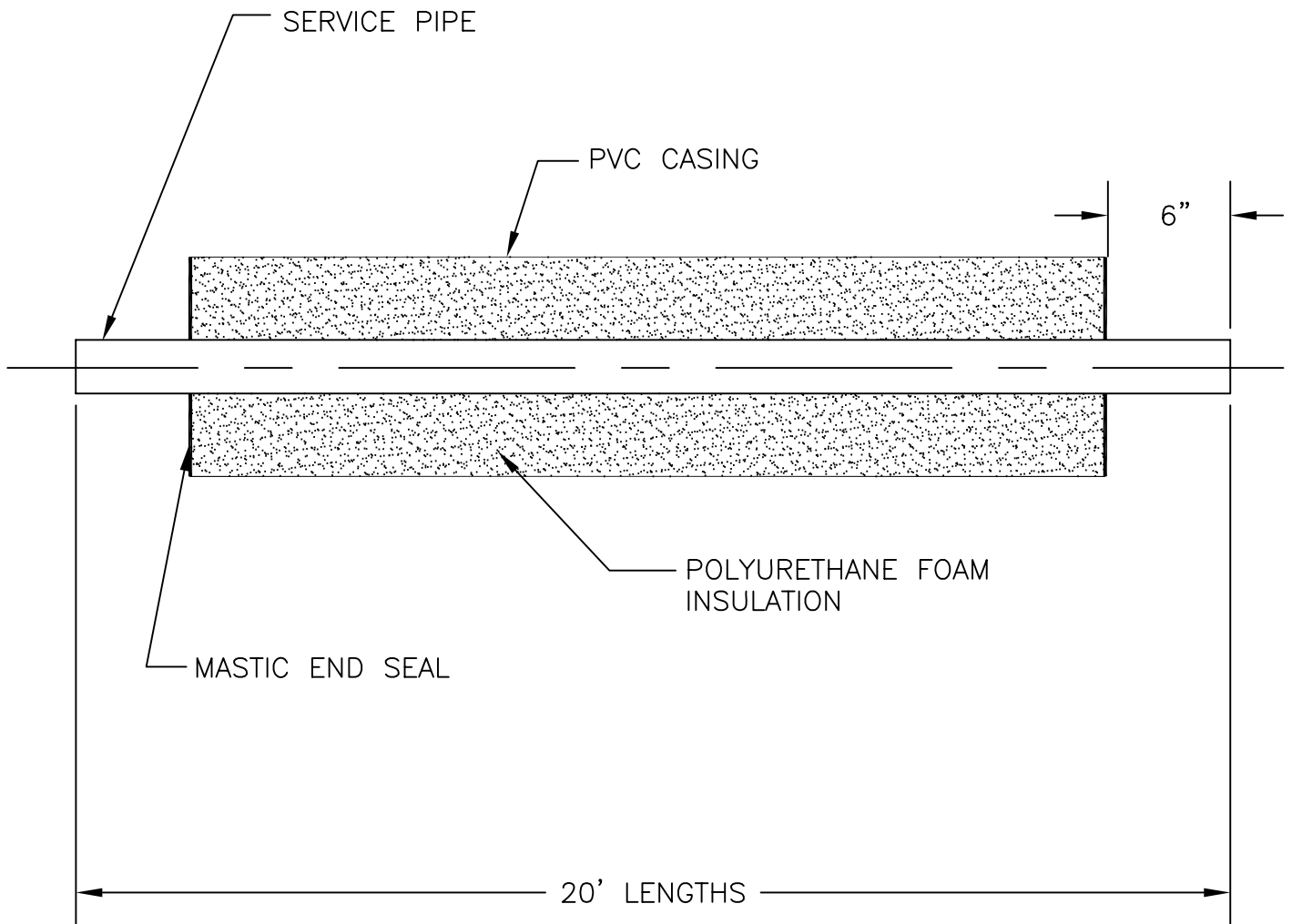
EXERCISE DUE CARE WHEN INSTALLING AND TESTING THE PIPING SYSTEM

System Options:

- Contact your Tricon representative for available sizes and system options.
- * Optional metallic casings for above ground applications include, Spiral Lockseam in Galvanized, Aluminum or Stainless Steel.



END VIEW
NOT TO SCALE



STRAIGHT PIPE DETAIL



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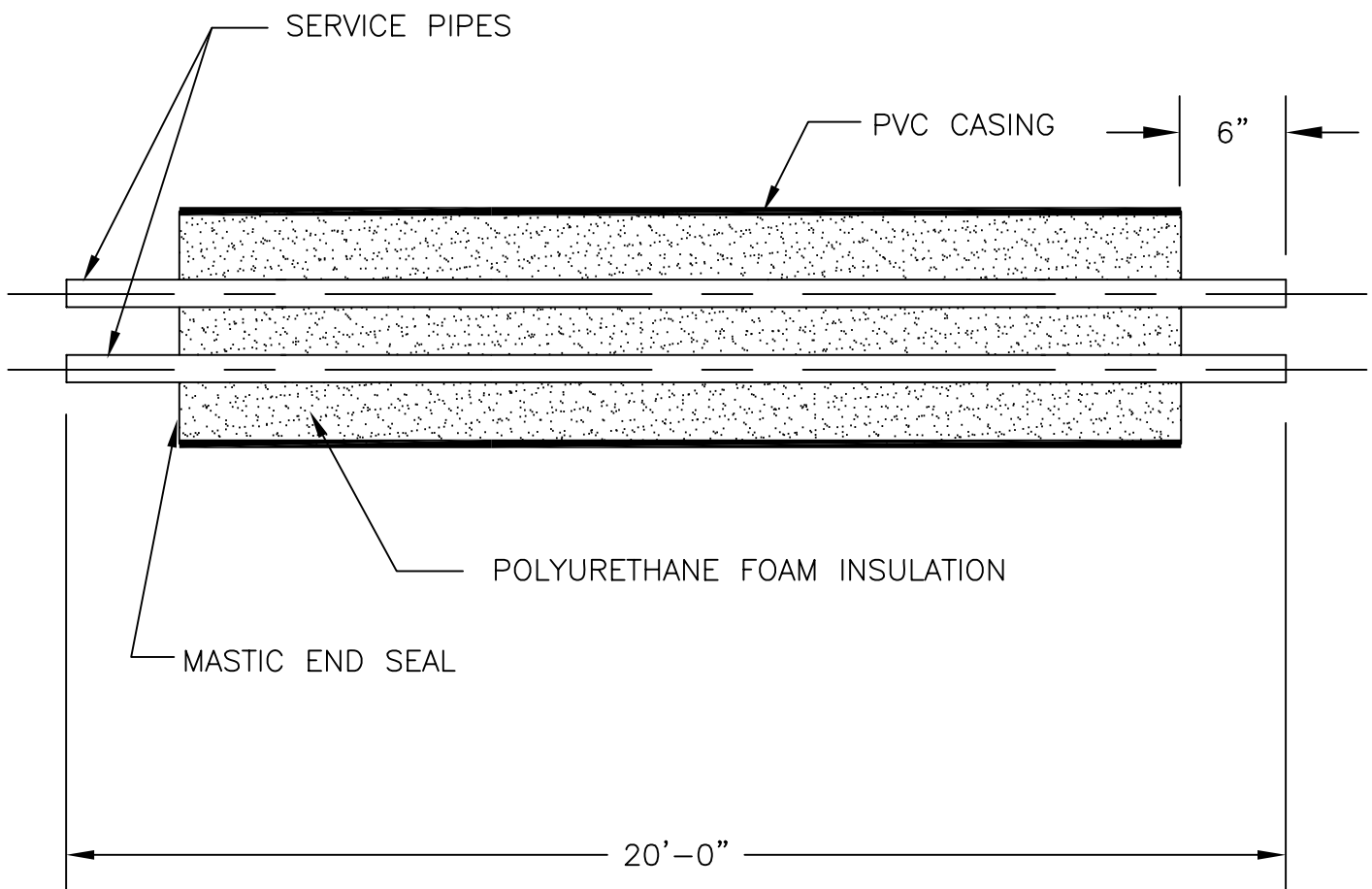
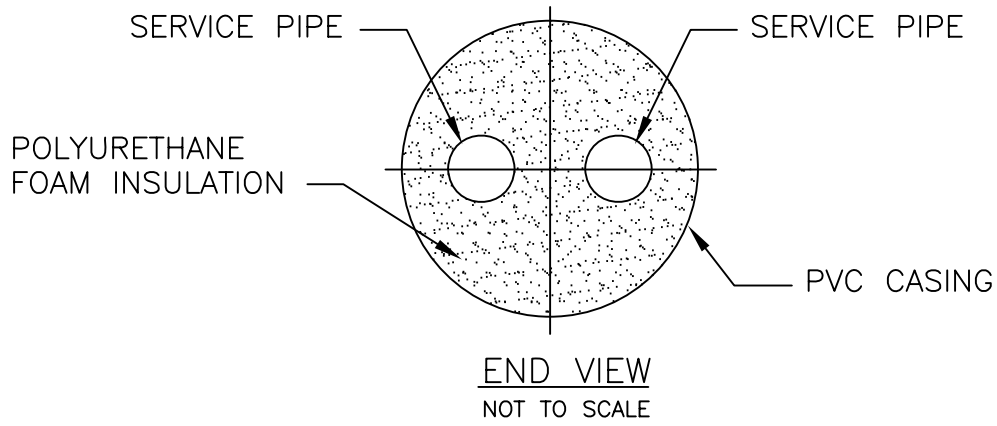
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* OPTIONAL METAL JACKET AVAILABLE FOR ABOVE GRADE APPLICATION.

DOUBLE PIPE STRAIGHT LENGTH DETAIL



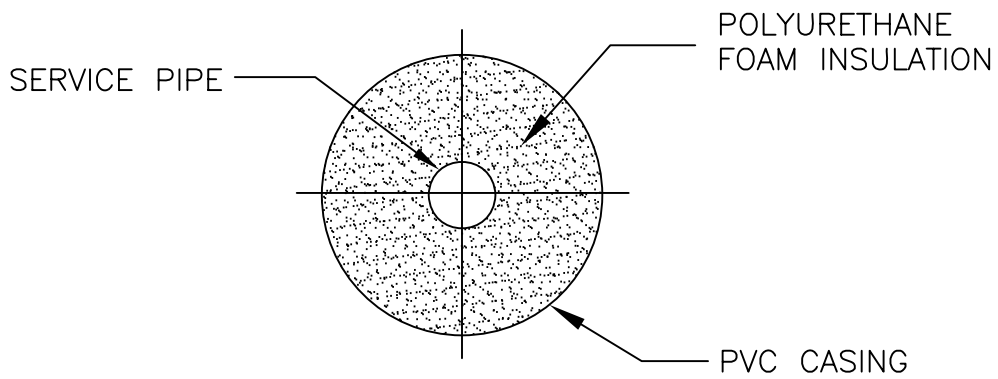
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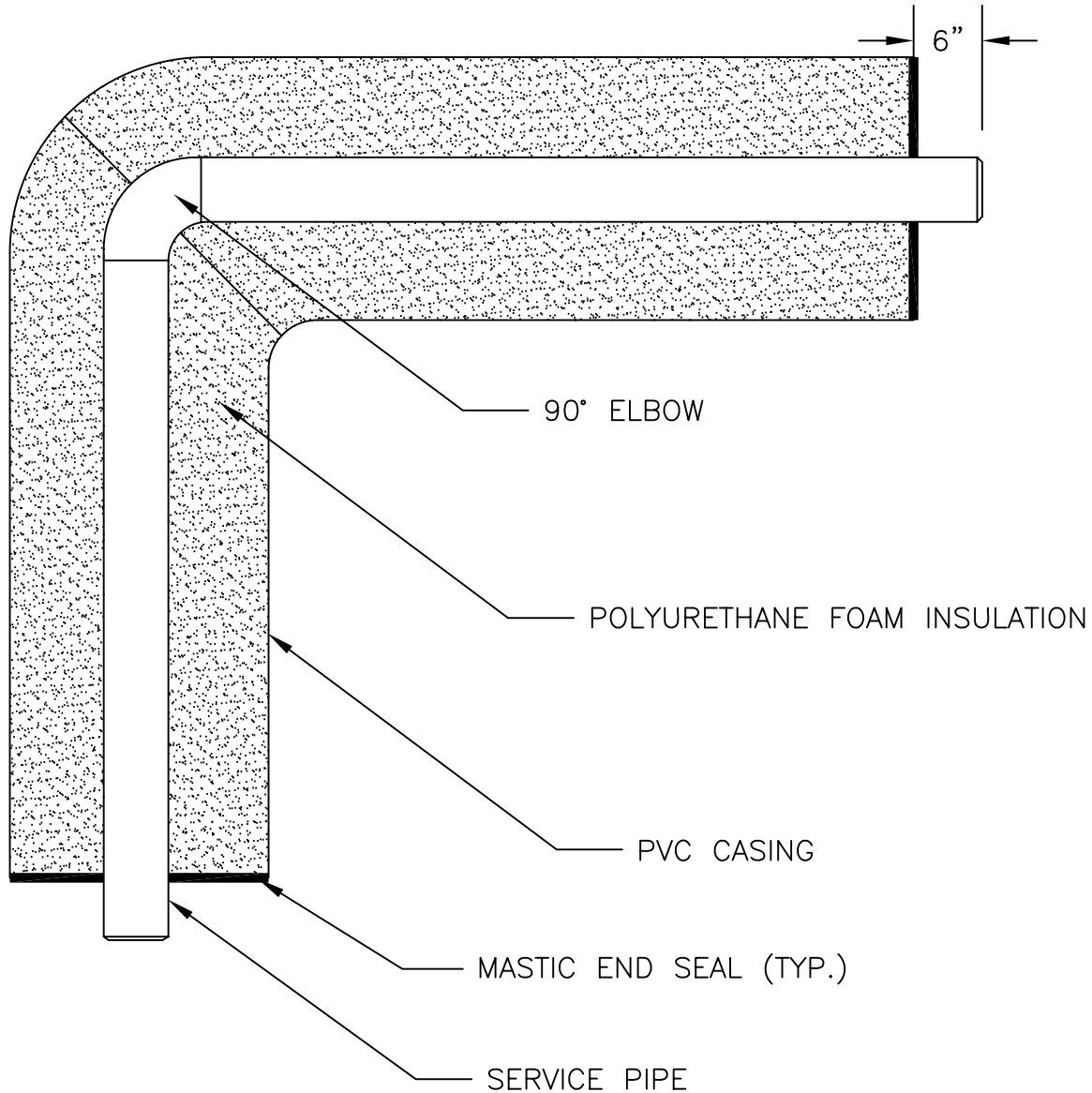
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90° ELBOW DETAIL



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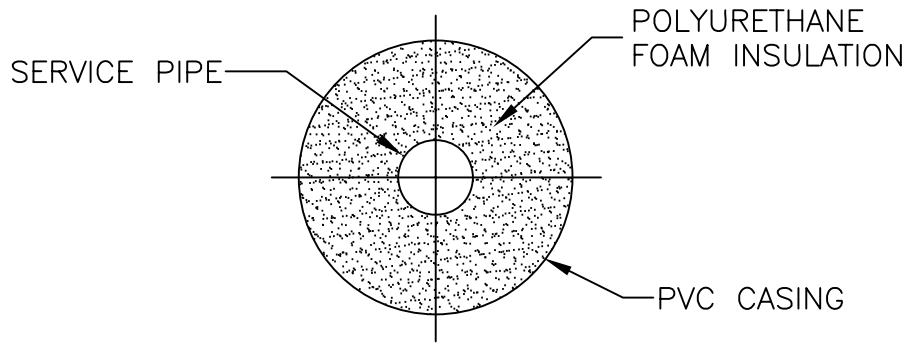
TRICON SUB-ZERO

Date: 03/06/06

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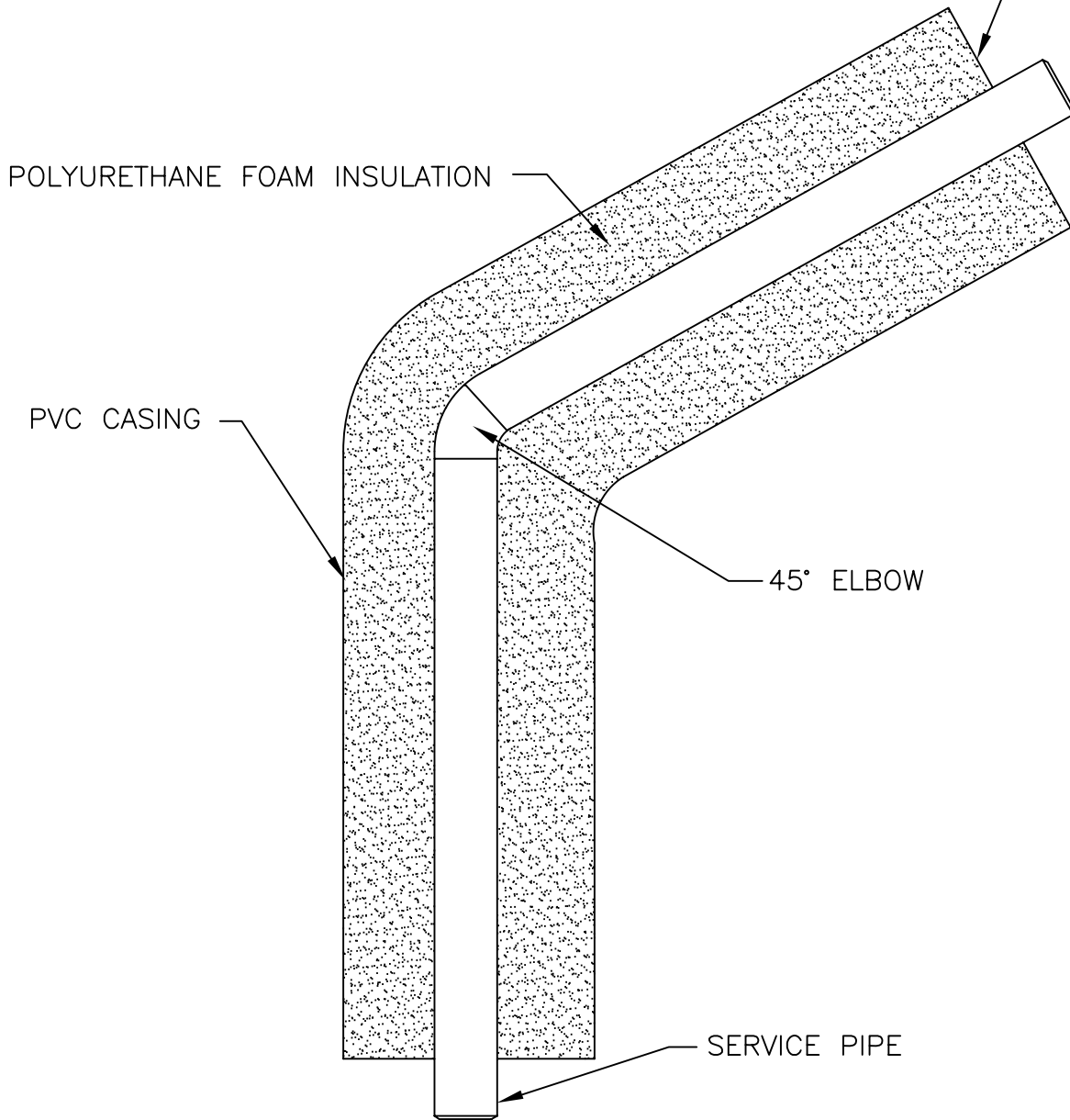
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END VIEW
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MASTIC END SEAL



45° ELBOW DETAIL

TRICON SUB-ZERO

Date: 03/06/06

Dwg. No.: SZ-4

Rev.:



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