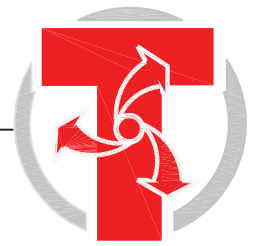


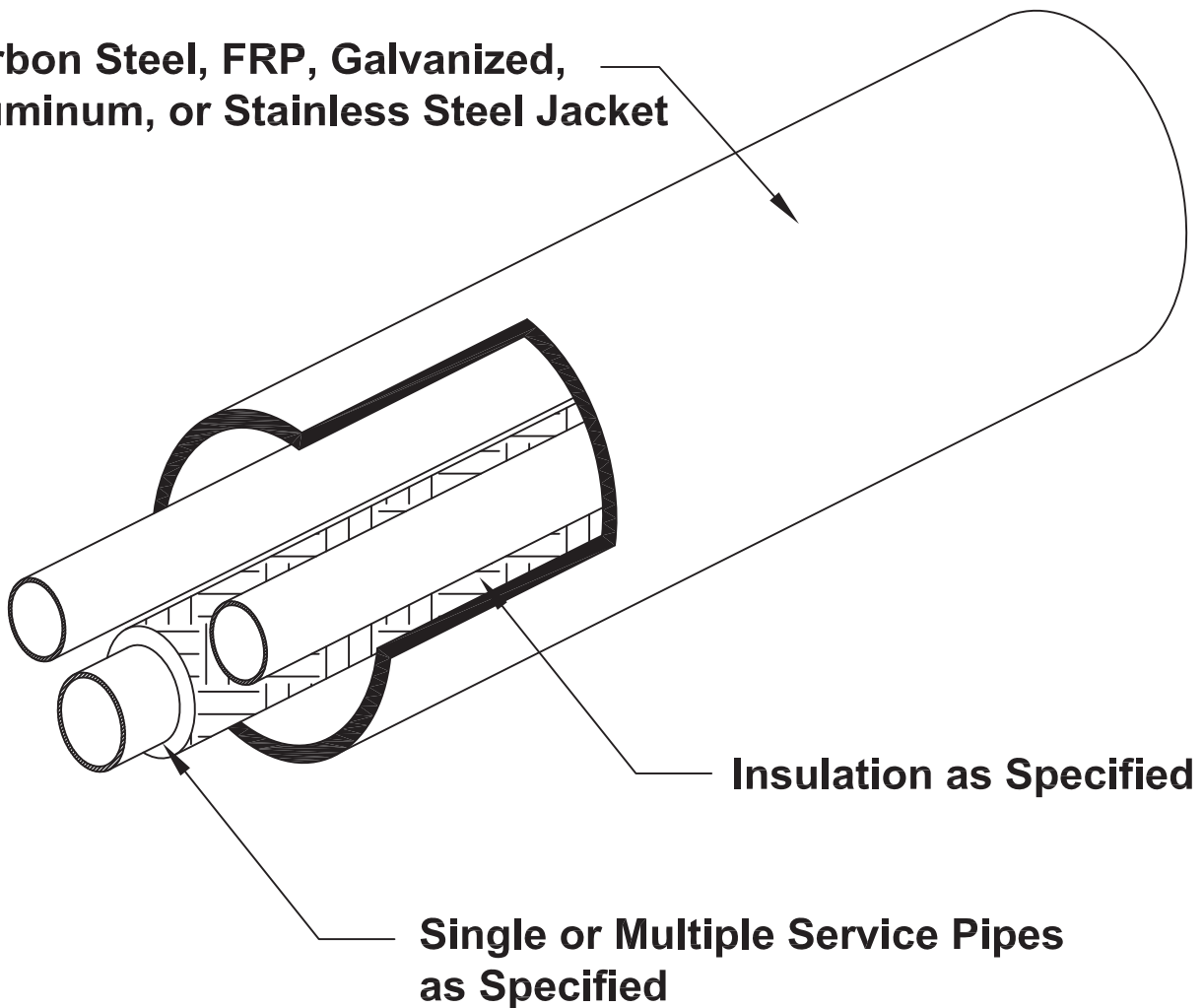
TRICON DOUBLE-CON PIPE SYSTEM



For Applications Up To 450° F Below And Above Ground

- ☐ Condensate
- ☐ Fuel Oil
- ☐ Heating Hot Water
- ☐ Low Pressure Steam
- ☐ Process Piping
- ☐ Steam

**Carbon Steel, FRP, Galvanized,
Aluminum, or Stainless Steel Jacket**



TRICON
Piping Systems, Inc. ®

P.O. Box 361, Canastota, New York 13032
Tel: 315.697.8787 Fax: 315.697.8788

TABLE 1

Pipe Size	Option 1		Option 2	
	FRP Jacket O.D.	FRP Jacket Wall	Steel Jacket O.D.	Steel Jacket Wall
1/2"	3.50"	.090"	3.500"	.120"
3/4"	3.50"	.090"	3.500"	.120"
1"	4.50"	.085"	4.500"	.120"
1 1/4"	4.50"	.085"	4.500"	.120"
1 1/2"	4.50"	.085"	4.500"	.120"
2"	4.50"	.085"	4.500"	.120"
2 1/2"	6.63"	.120"	6.625"	.134"
3"	6.63"	.120"	6.625"	.134"
4"	8.64"	.140"	8.625"	.134"
5"	8.64"	.140"	8.625"	.134"
6"	10.70"	.170"	10.750"	.134"

TRICON Double-Con Containment System is a factory fabricated containment system for above and below ground transportation of hazardous fluids. The most widely used system can be designed with a steel carrier pipe and a secondary steel outer pipe.

Carrier Pipe:

Carbon steel service pipe shall be standard weight or extra heavy, A53 ERW or A106 seamless beveled for welding. (Stainless Steel piping shall be Type 304L or 316L. – Copper piping to be Type K cleaned and capped for medical use or Type L) All joints for pipe 2 1/2" and larger in size shall be butt-welded. Sizes 2" and smaller shall be socket welded. Straight lengths of piping will be supplied with 6" of piping exposed at each end for field joint fabrication. Pipe lengths to be supplied in 21-42 ft. lengths.

Containment Pipe For Above Grade:

The outer conduit shall be a smooth wall, spiral welded steel conforming to ASTM Specification A-139, or electric resistance welded steel pipe conforming to ASTM Specification A-135, or as specified.

Containment Pipe Coating For Above Grade:

Red Oxide Primer, factory coated up to 3-4 mils dry film thickness.

Containment Pipe For Below Grade:

The outer conduit shall be a nonmetallic fiberglass conforming to ASTM 2310 standard classification TRP-11CX and ASTM D2996 specification RTRP 11CF1-5430, RTRP-11AF1-2214, RTRP-11AF1-2216.

TABLE 2

Pipe Size	Option 1	Option 2
	FRP Jacket O.D.	Steel O.D.
1/2" + 1/2"	4.50"	4.500"
3/4" + 3/4"	4.50"	4.500"
1" + 1"	6.63"	6.625"
1 1/4" + 1 1/4"	6.63"	6.625"
1 1/2" + 1 1/2"	6.63"	6.625"
2" + 2"	8.64"	8.625"
2 1/2" + 2 1/2"	8.64"	8.625"
3" + 3"	10.70"	10.750"

Containment Pipe Coating For Below Grade:

Conduit exterior shall be factory coated with a **Fusion Bonded Epoxy**. All exterior surfaces of the conduit shall be shot blasted prior to the application of the coating.

Fusion Bonded Epoxy is a N.A.C.E & N.A.P.C.A. approved corrosion coating.

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 service piping shall be hydrostatically tested to 1-1/2 times the operating pressure, or as specified in the contract documents. The non-metallic outer jackets shall be tested to 5 psi and 15 psi for the metallic secondary containment. The test shall be maintained for a minimum time of 1 hour. ***EXERCISE DUE CARE IN INSTALLING AND TESTING THE PIPING SYSTEM.***

Accessories:

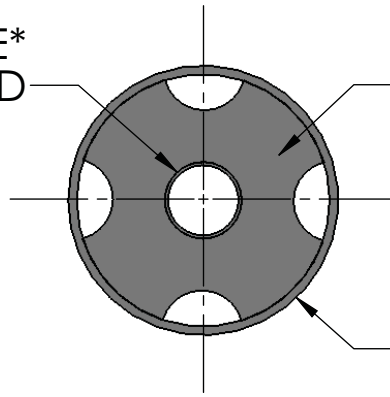
- Heat Tracing
- Leak Detection
- Cathodic Protection

Optional Systems:

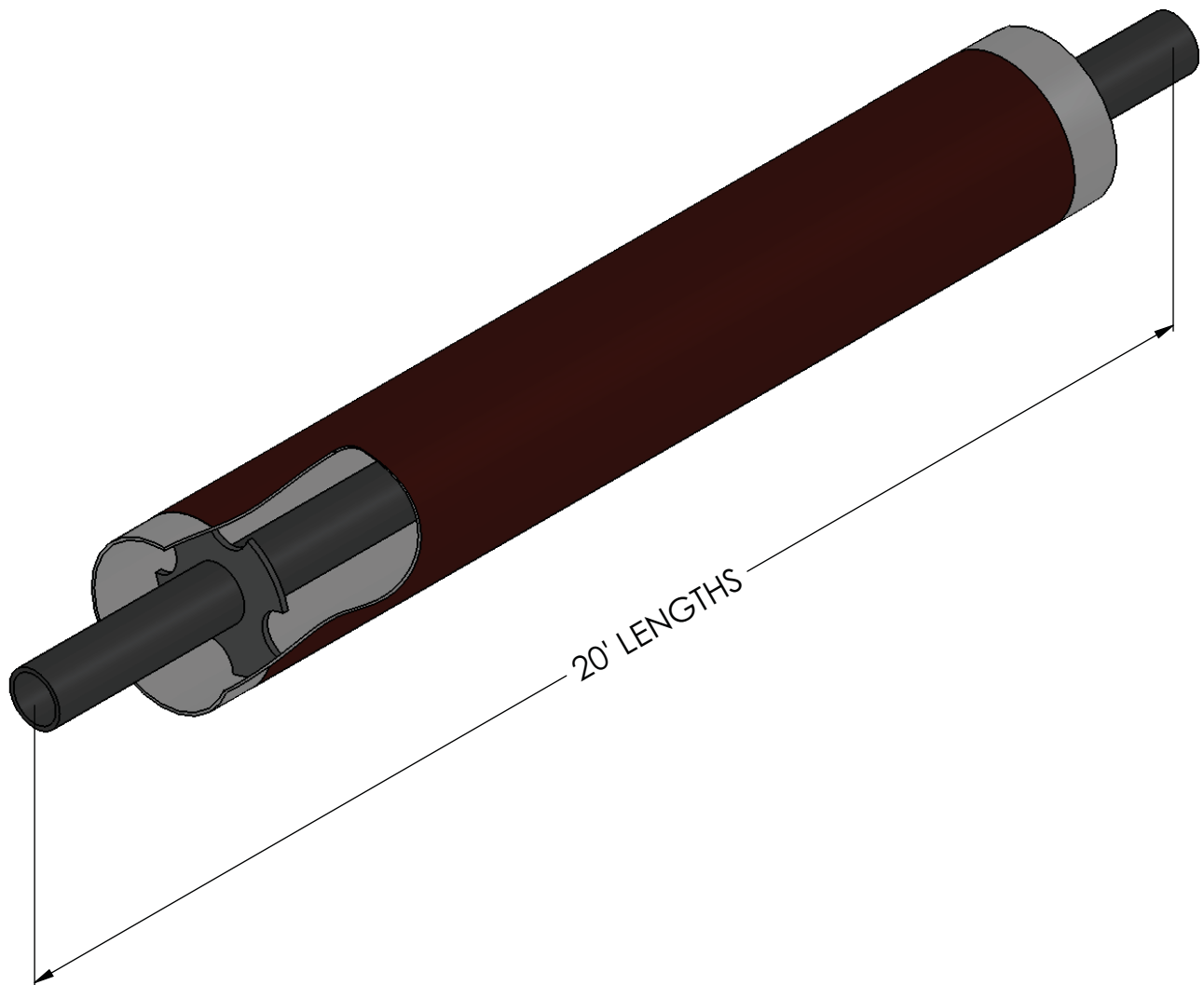
- Contact your Tricon representative for available sizes and system options.

SERVICE PIPE*
AS SPECIFIED

PIPE SUPPORT



SCH. 10 STEEL SECONDARY
CONTAINMENT COATED
WITH RED OXIDE PRIMER



***SERVICE PIPE OPTIONS:** CARBON STEEL, COPPER, STAINLESS STEEL, FRP



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SHEET TITLE

RED OXIDE PRIMER CONTAINMENT STRAIGHT LENGTH DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

NTS

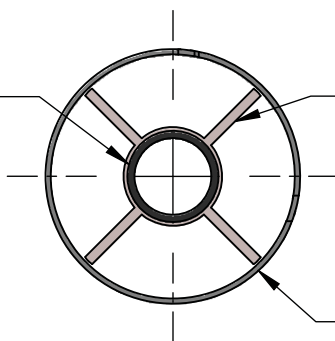
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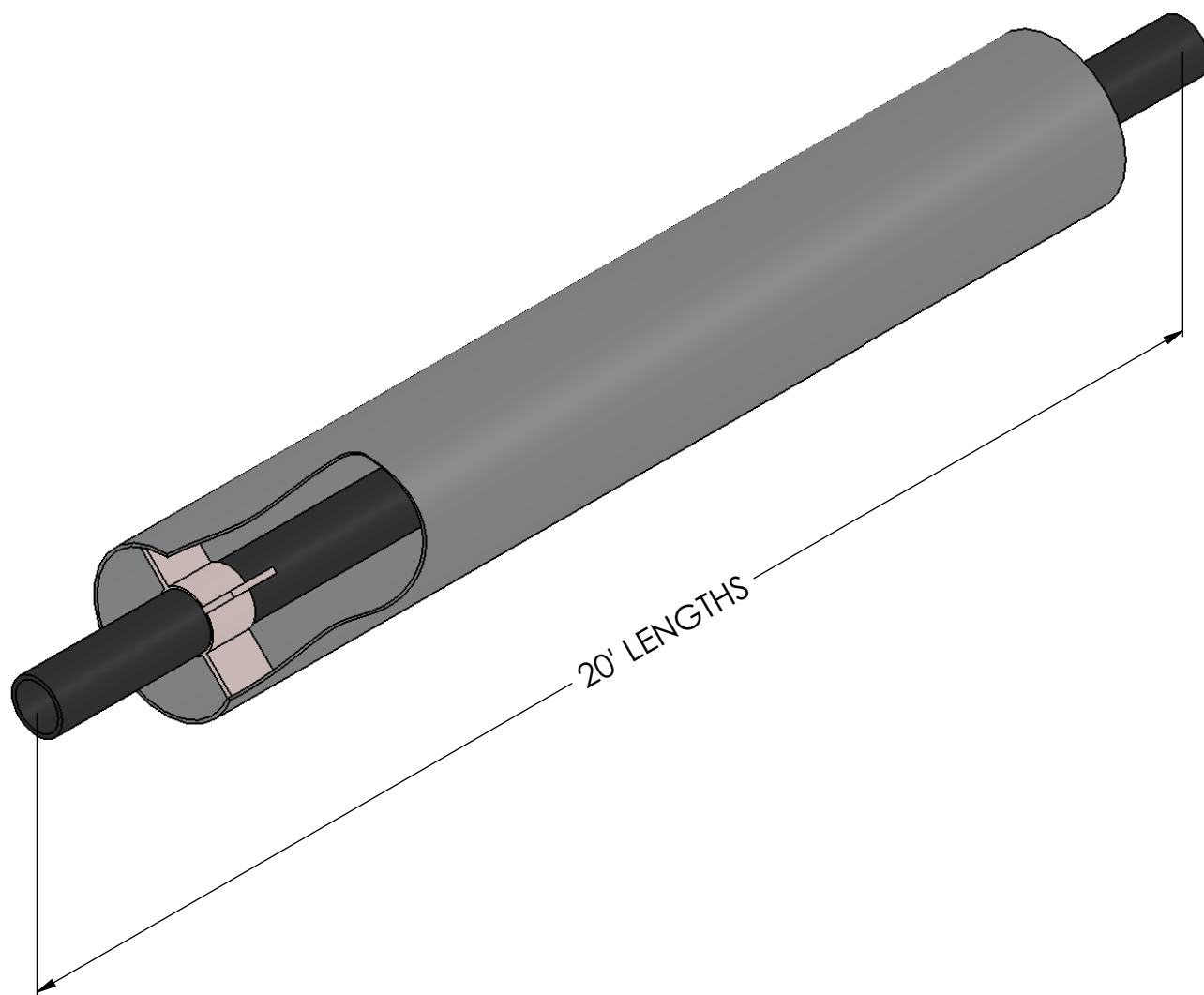
DC - 1

SERVICE PIPE*
AS SPECIFIED



NON METALLIC
PIPE SUPPORT

FRP SECONDARY
CONTAINMENT



***SERVICE PIPE OPTIONS:** CARBON STEEL, COPPER, STAINLESS STEEL, FRP



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SHEET TITLE

FRP CONTAINMENT STRAIGHT LENGTH DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

NTS

DATE

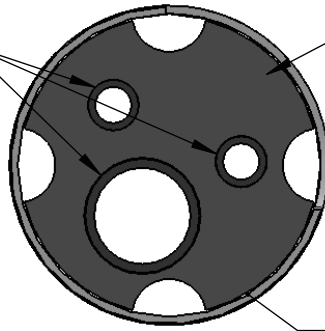
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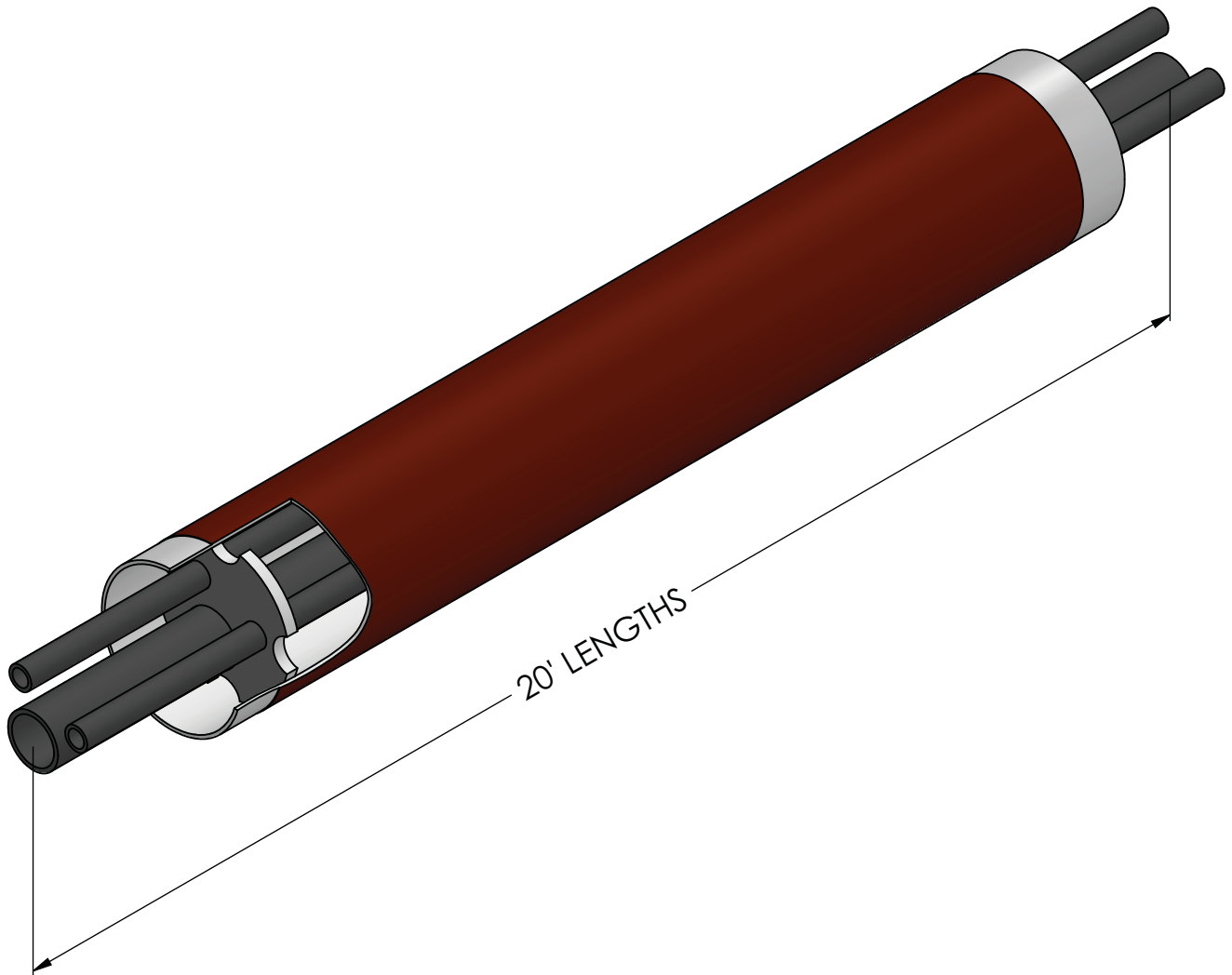
DC - 1

SERVICE PIPE*
AS SPECIFIED

PIPE SUPPORT



SCH. 10 STEEL SECONDARY
CONTAINMENT COATED
WITH RED OXIDE PRIMER



20' LENGTHS

***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

RED OXIDE PRIMER MULTI CONTAINMENT STRAIGHT LENGTH DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

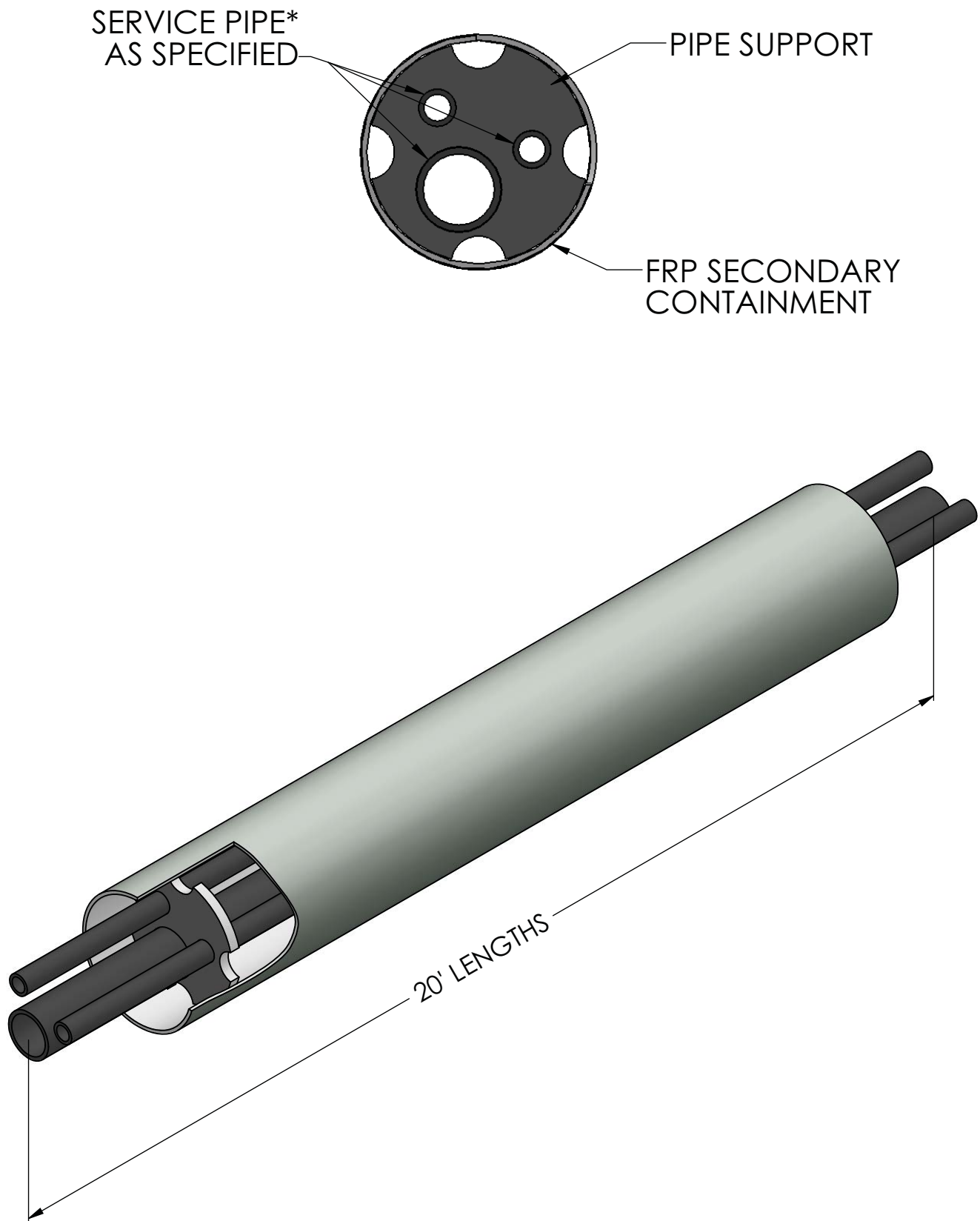
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DATE

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DWG. NO.

DC - 1



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

FRP MULTI CONTAINMENT STRAIGHT LENGTH DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

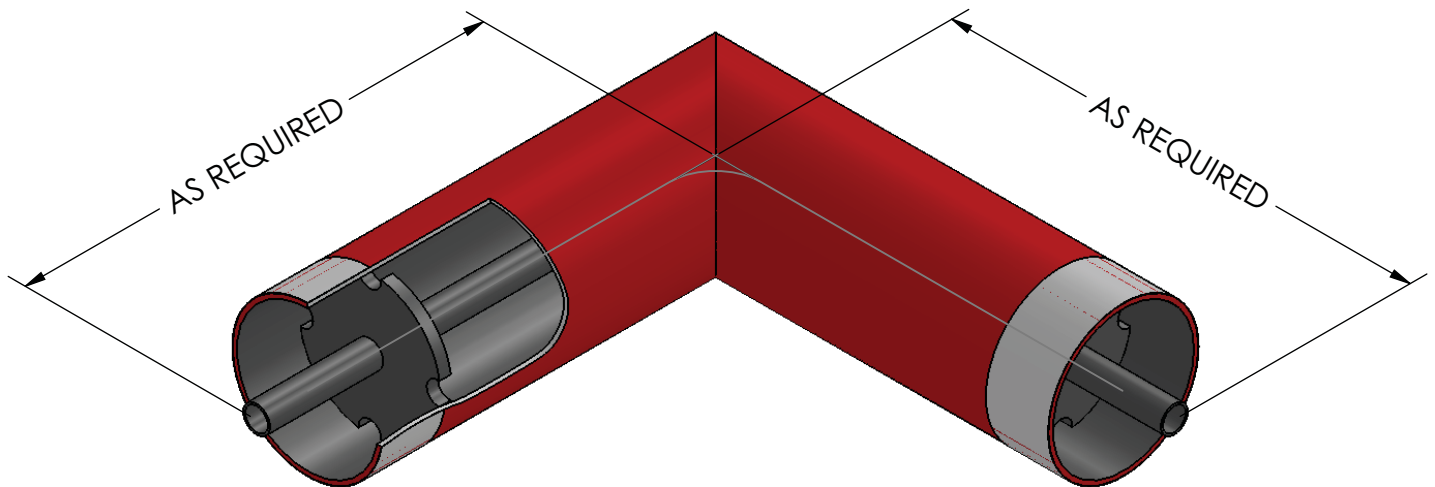
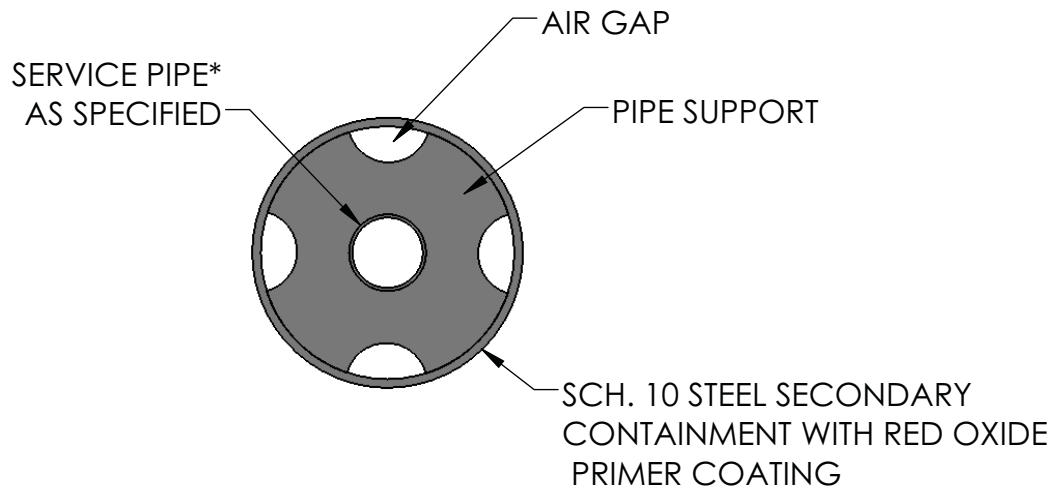
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DWG. NO.

DC - 1



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

CONTAINMENT 90° ELBOW DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

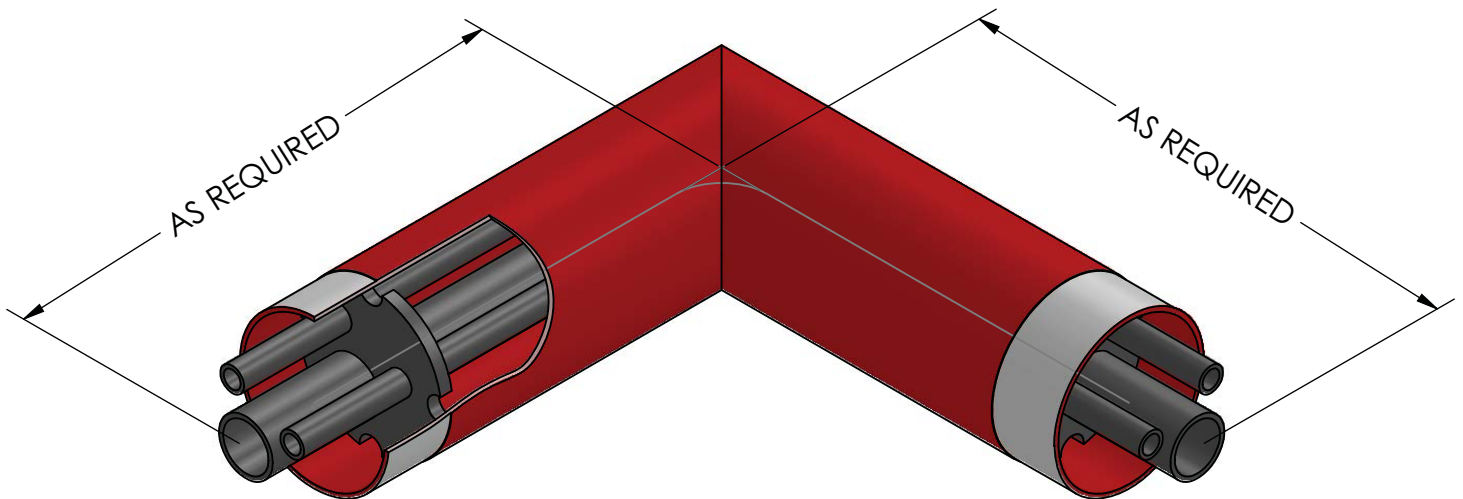
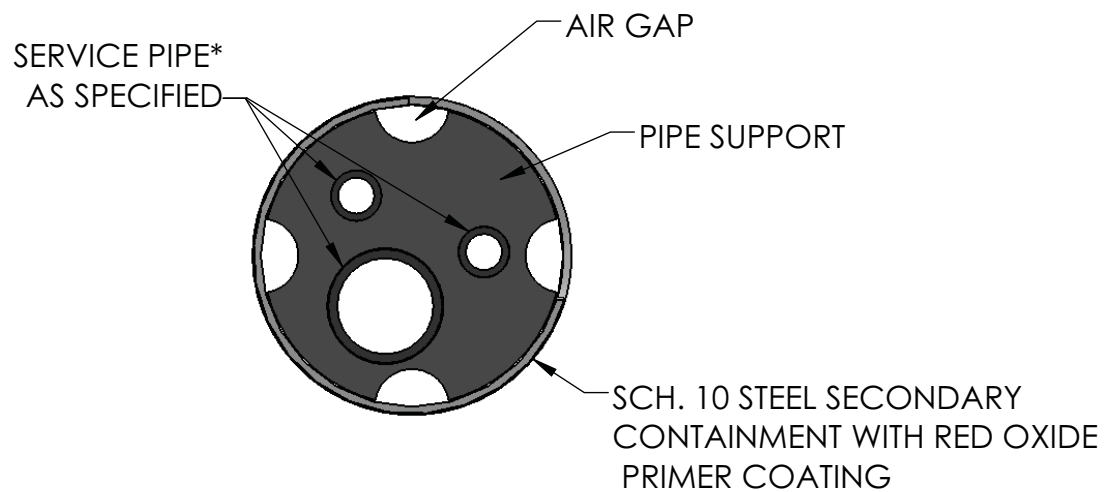
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DATE

12/01/16

DWG. NO.

DC-2



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

CONTAINMENT 90° ELBOW DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

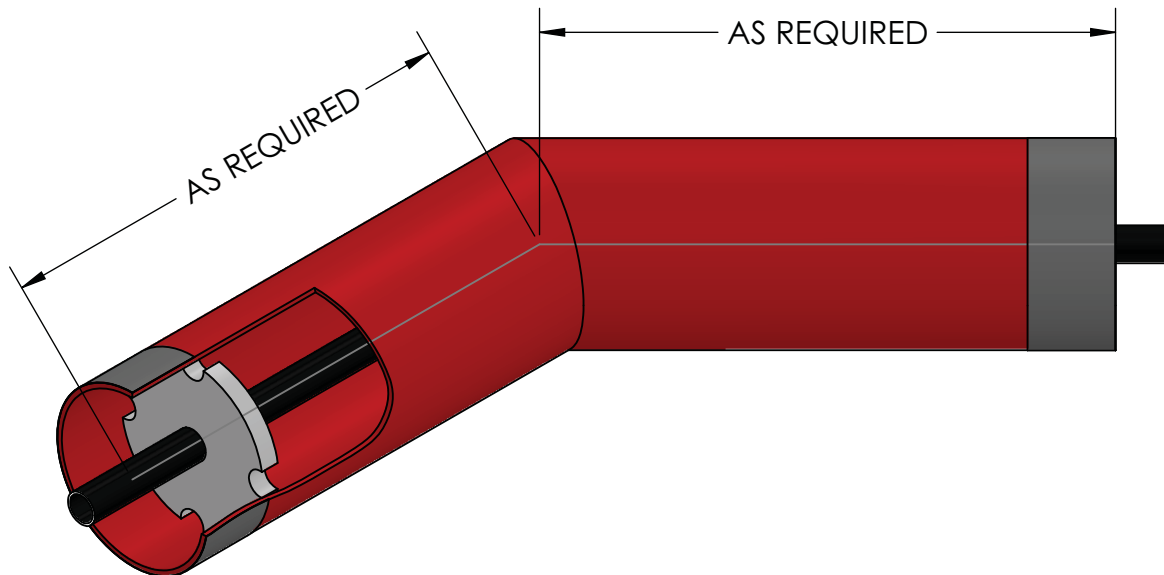
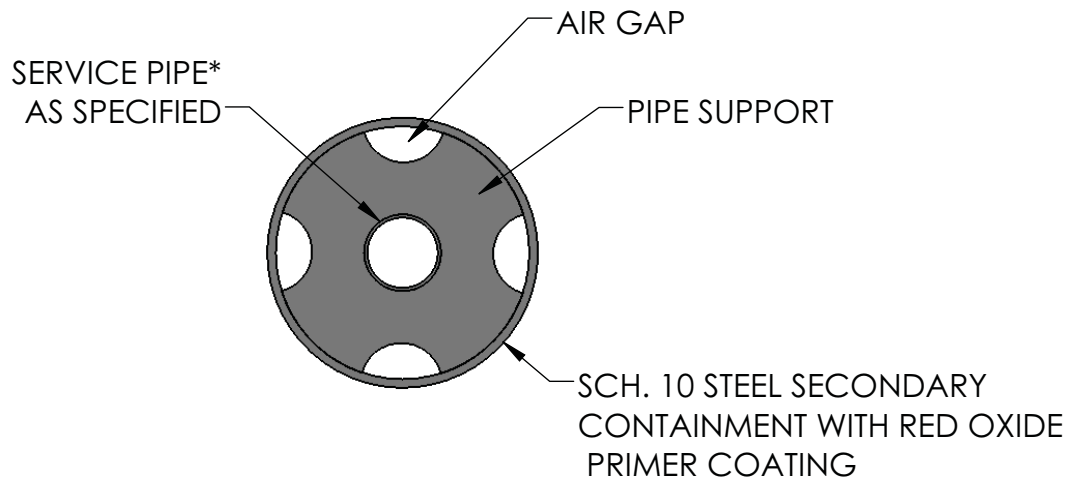
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DATE

12/01/16

DWG. NO.

DC-2



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

CONTAINMENT 45° ELBOW DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

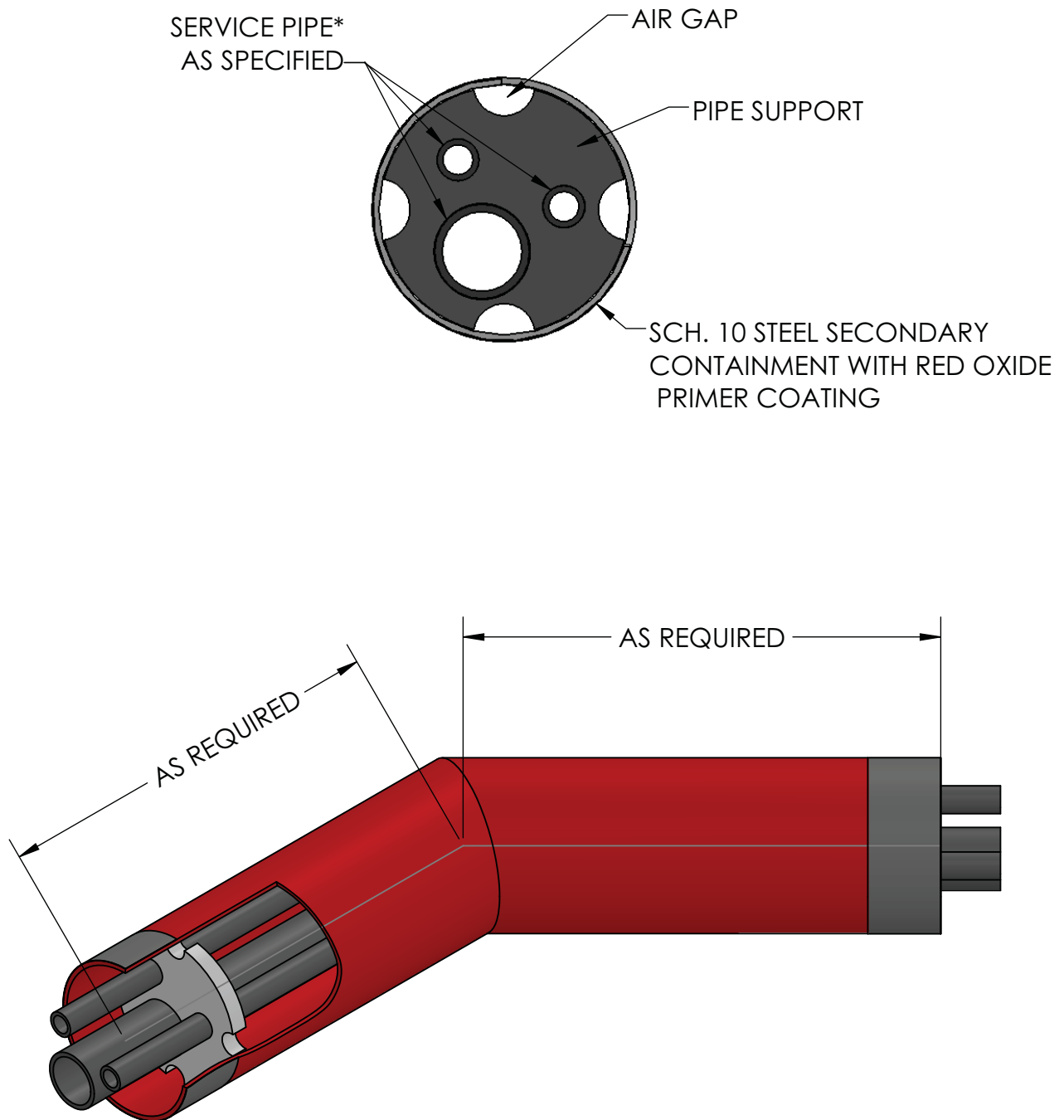
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DATE

12/01/16

DWG. NO.

DC-2A



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

CONTAINMENT 45° ELBOW DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

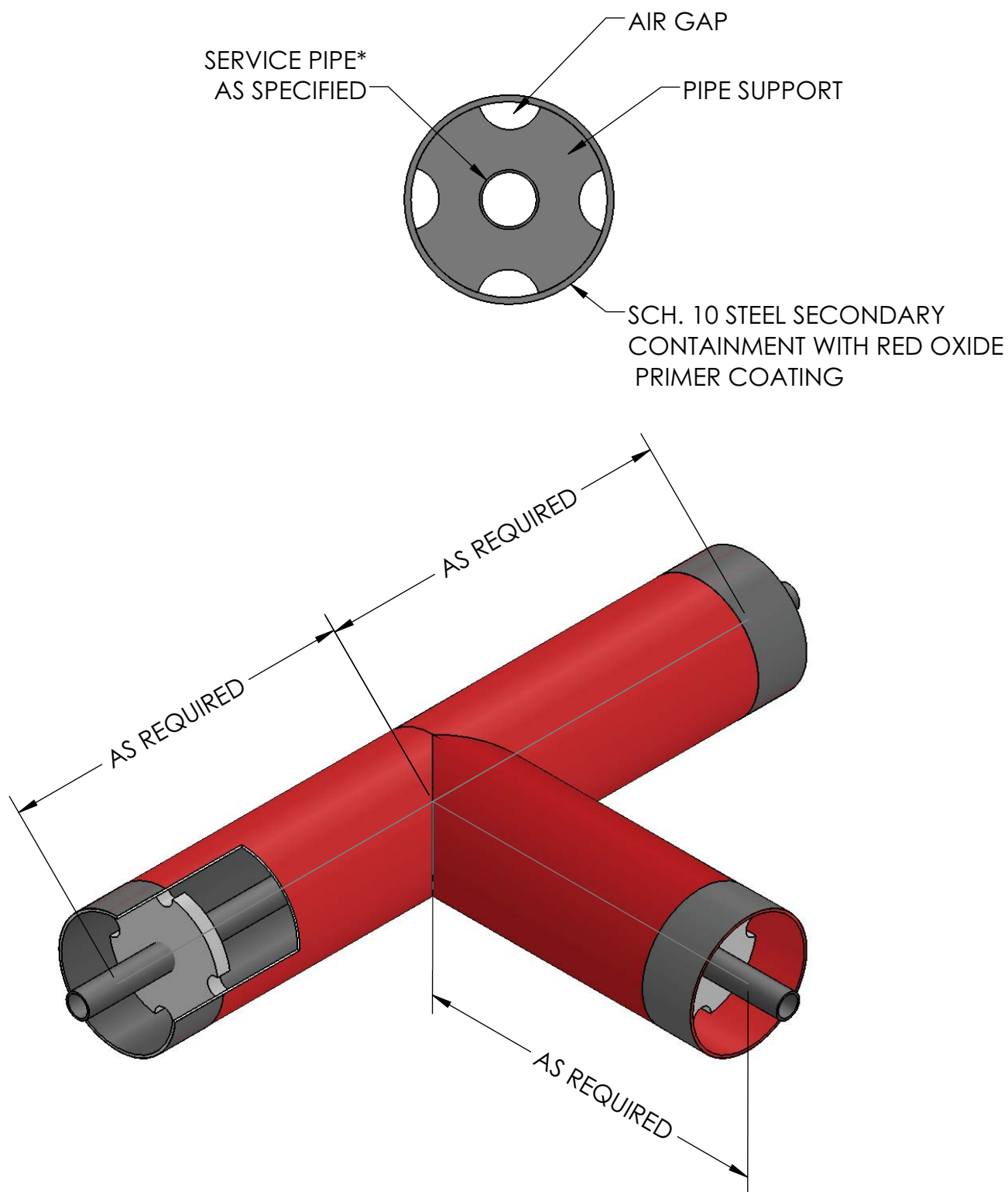
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DATE

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DWG. NO.

DC-2A



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

CONTAINMENT TEE DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

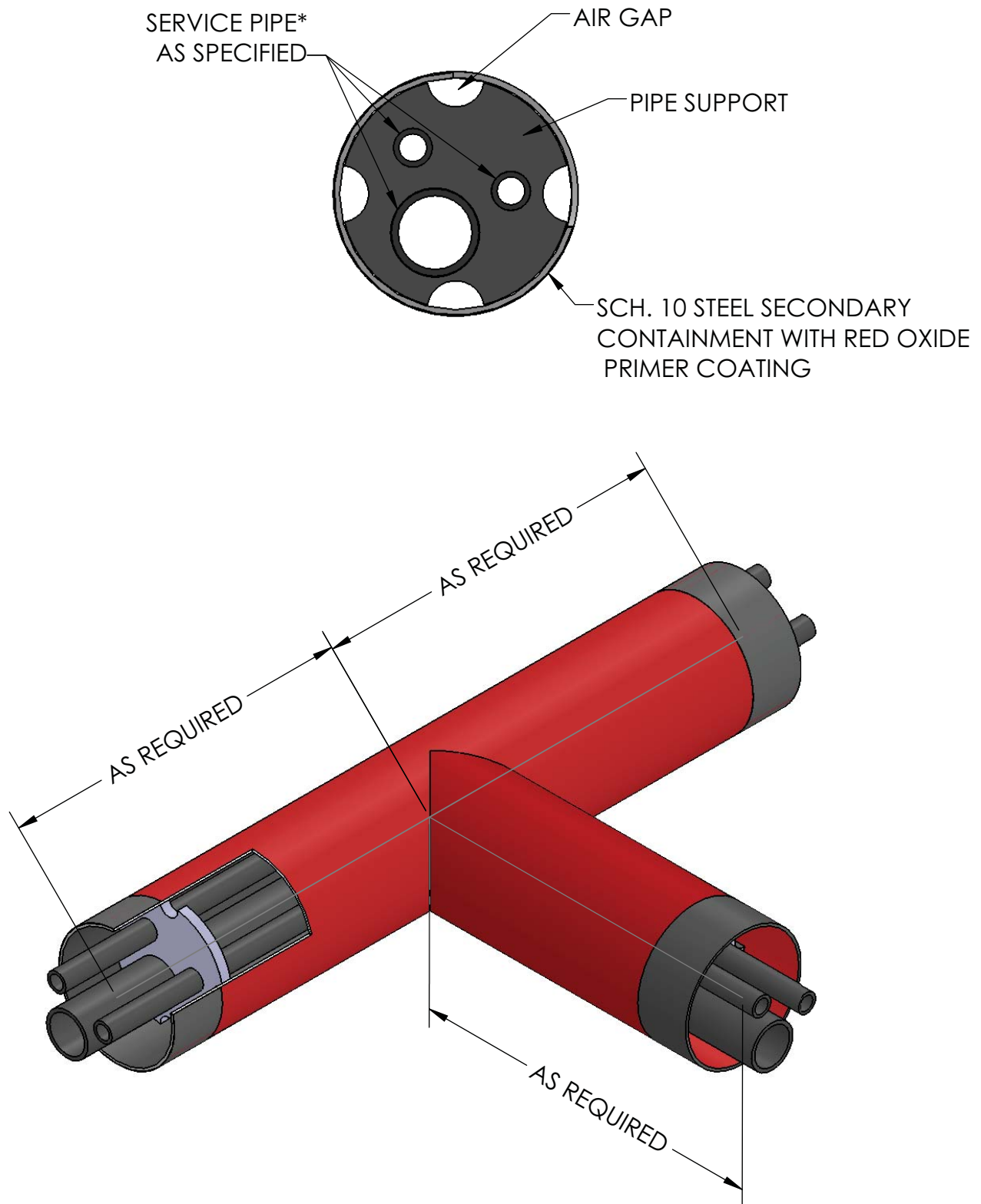
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DATE

12/01/16

DWG. NO.

DC-2B



***SERVICE PIPE OPTIONS:** CARBON STEEL, STAINLESS STEEL, FRP



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SHEET TITLE

CONTAINMENT TEE DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

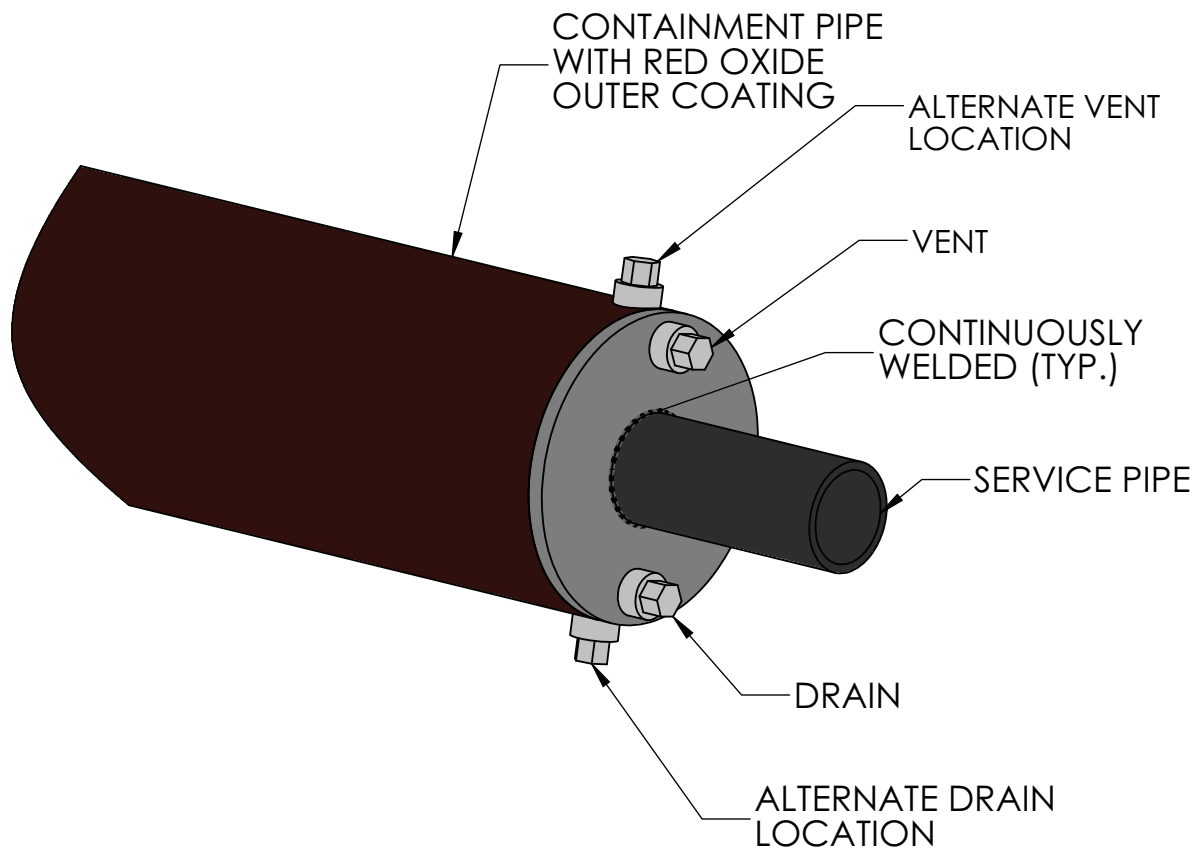
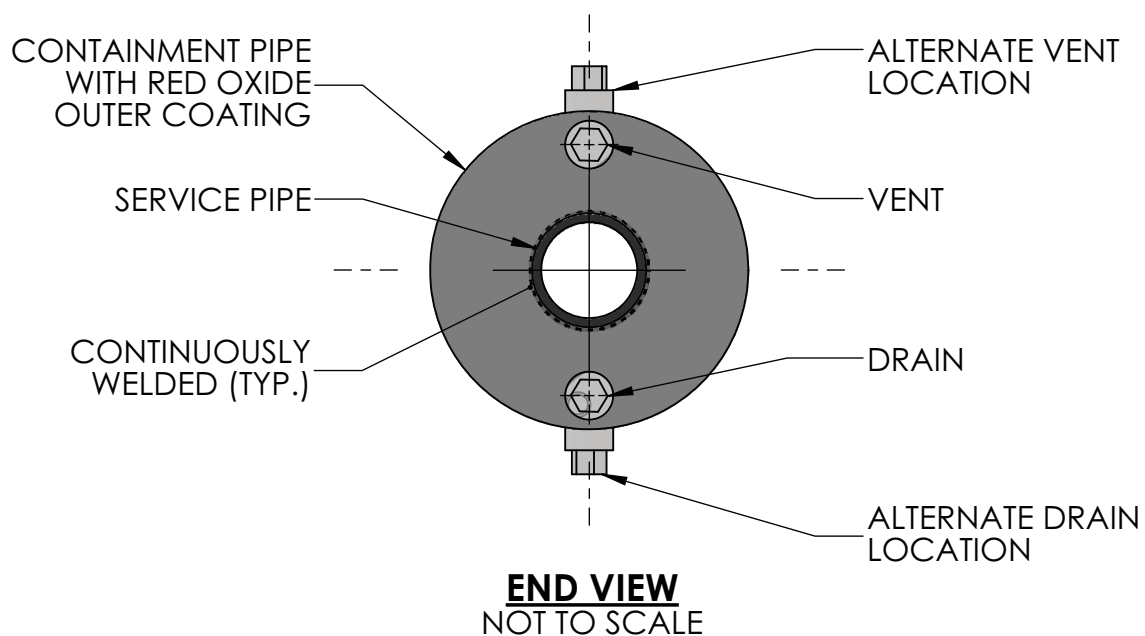
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DWG. NO.

DC-2B



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SHEET TITLE

WELD END SEAL

PRODUCT

TRICON DOUBLE-CON

SIZE

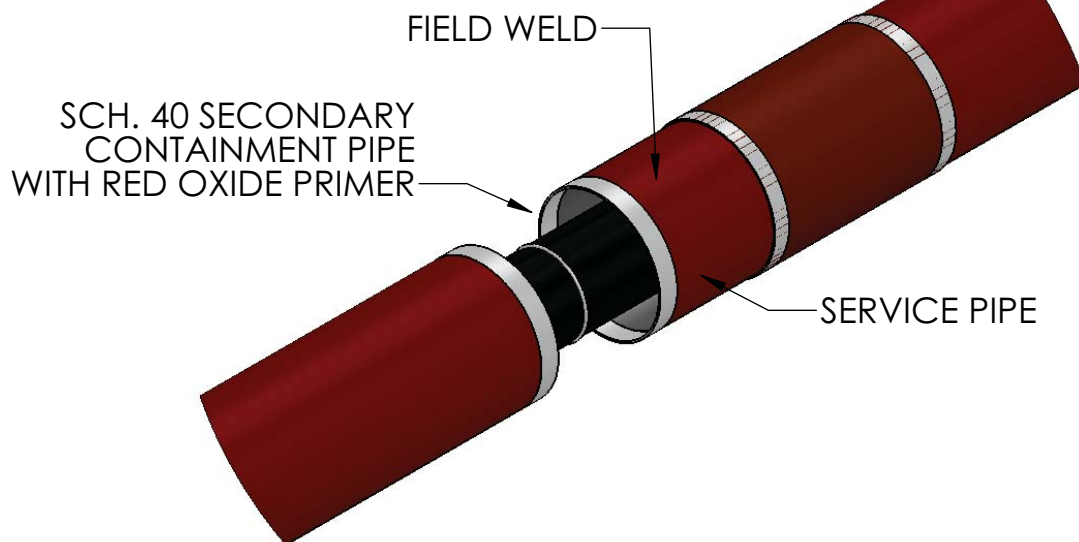
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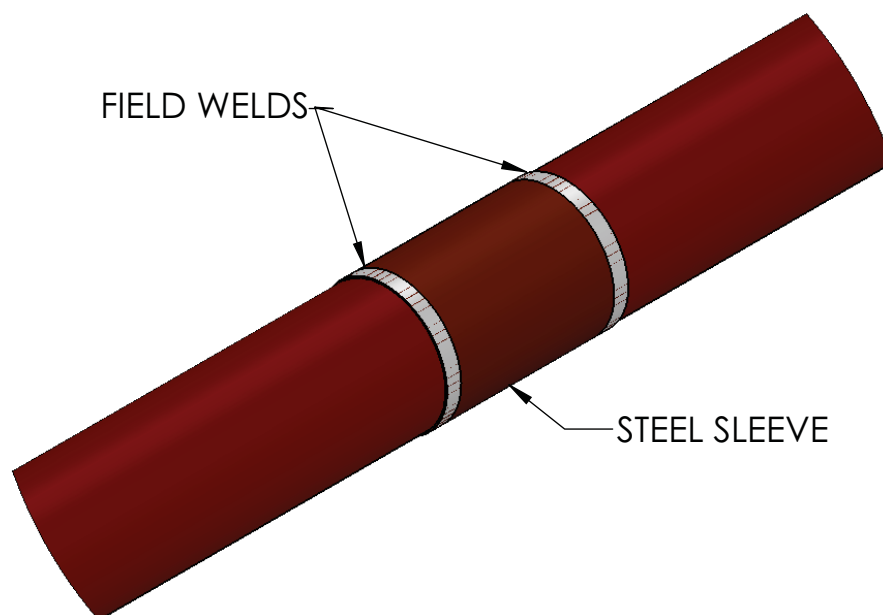
DATE

DWG. NO.

DC-3



PRIOR TO WELDING SERVICE PIPE, SLIDE STEEL SLEEVE OVER CONTAINMENT PIPE. WELD SERVICE PIPE AND TEST AS REQUIRED.



SLIDE THE STEEL SLEEVE OVER SERVICE PIPE JOINT AND WELD IN PLACE WITH TWO CIRCUMFENTIAL WELDS. WHEN COOLED DOWN CLEAN AND PAINT WELDS WITH RED OXIDE PRIMER.



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SHEET TITLE

FIELD JOINT KIT

PRODUCT

TRICON DOUBLE
CONTAINMENT

SIZE

A

SCALE

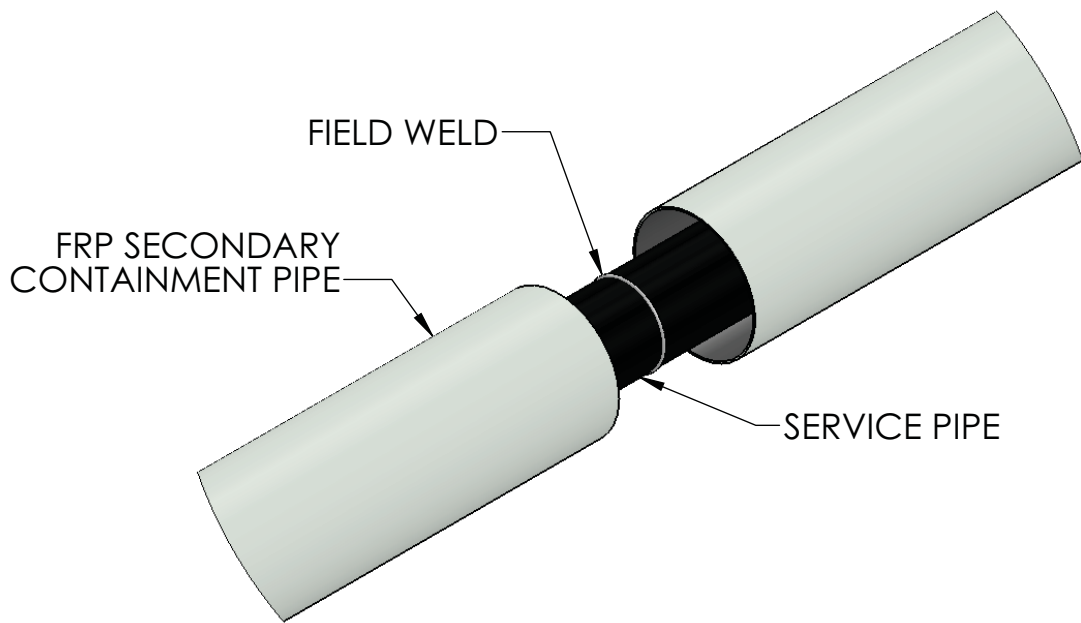
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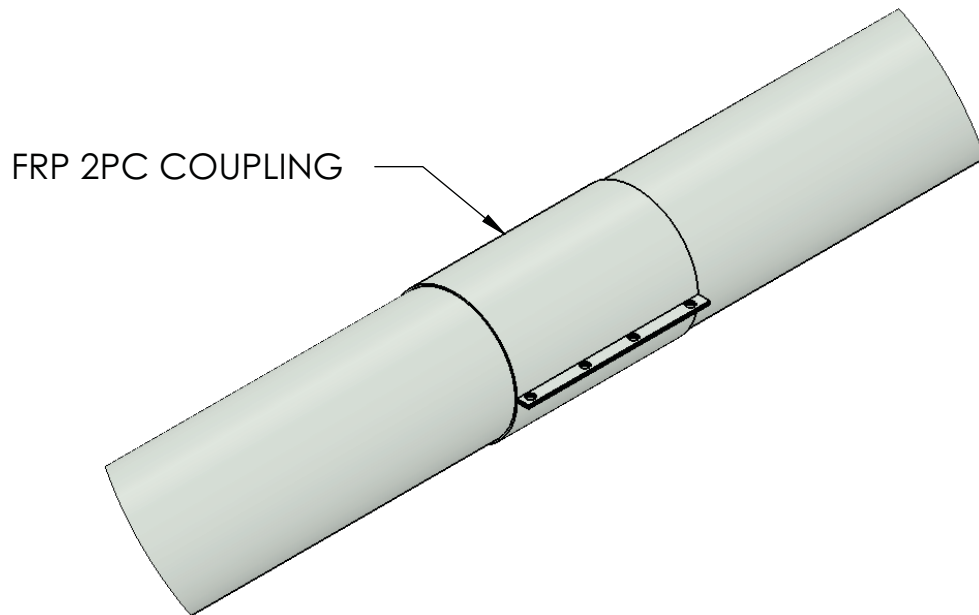
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DWG. NO.

DC-4



WELD SERVICE PIPE AND TEST AS REQUIRED.



PLACE 2-PC FRP COUPLING OVER JOINT FOR DRY FIT.
LIGHTLY SAND HIGH SPOTS IF REQUIRED.
REMOVE FRP COUPLING AND APPLY ADHESIVE (PER INSTRUCTIONS)
TO COUPLING AND REAPPLY OVER JOINT AND TIGHTEN BOLTS.



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SHEET TITLE

FIELD JOINT KIT

PRODUCT

TRICON DOUBLE
CONTAINMENT

SIZE

A

SCALE

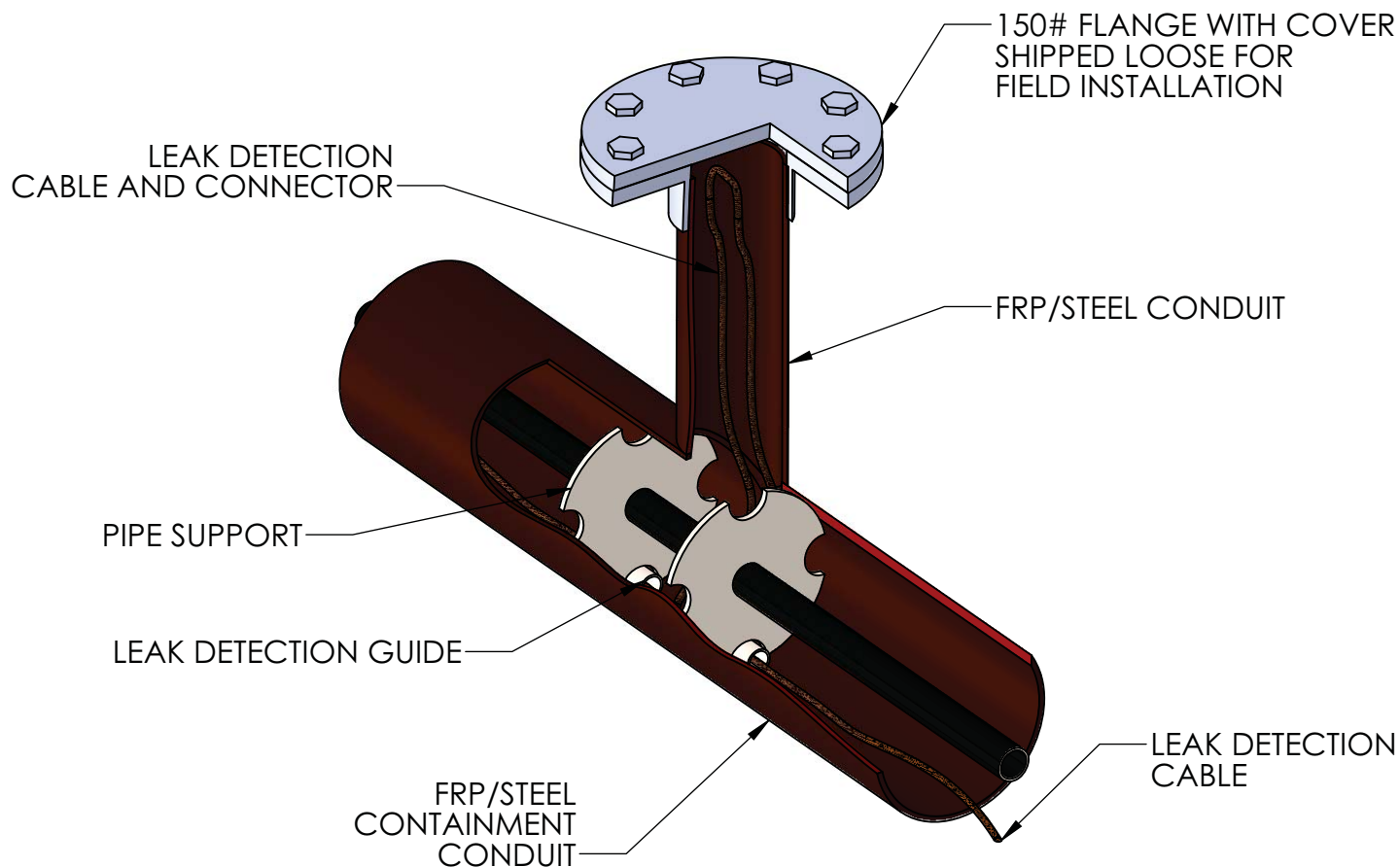
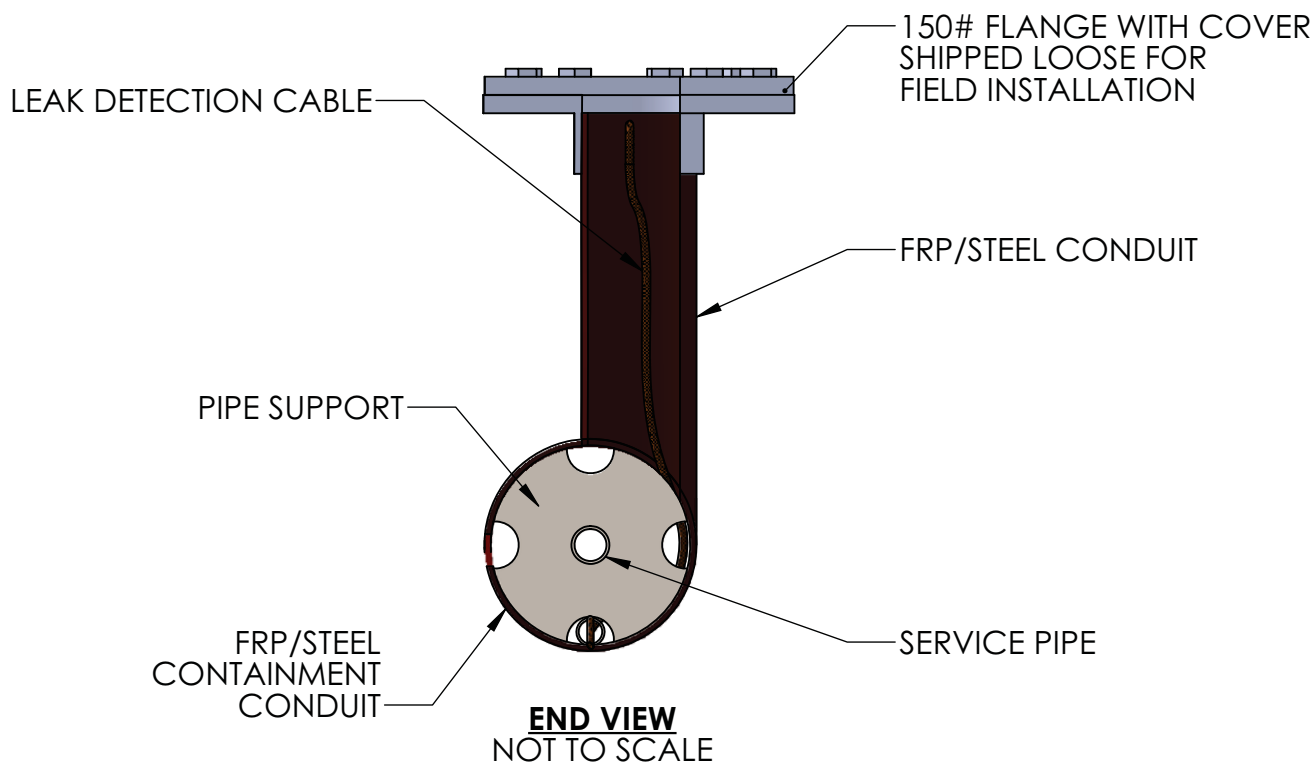
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DWG. NO.

DC-4



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SHEET TITLE

PULL PORT DETAIL

PRODUCT

TRICON DOUBLE-CON

SIZE

A

SCALE

NTS

DATE

12/01/16

DWG. NO.

DC-5