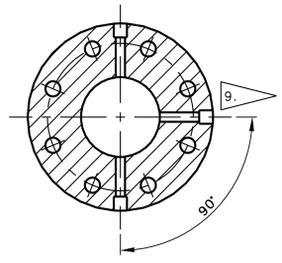


PARTS LIST/MATERIAL LIST

ITEM NO	SHEET	MATERIAL/REFERENCE	NOMENCLATURE/DESCRIPTION	PARTS/DASH NUMBER	QTY REQD									
					-060	-050	-040	-030	-020	-010				
1	1		BYPASS LINE WELDMENT - UPSTREAM	-010										
2	1		BYPASS LINE WELDMENT - DOWNSTREAM	-020										
3	2		FLANGED ELBOW WELDMENT (SS)	-030										
4	2		FLANGED ELBOW WELDMENT (GS)	-040										
5	2		FLANGED ELBOW WELDMENT - LONG	-050										
6	2		1/2" INSTRUMENT TUBING - BENT	-060										
7														
8		ASTM A312 TP304/304L	DUCT, 4" SCH. 10S PIPE, SEAMLESS		AR				AR	AR				
9		ASTM A403 WP-S TYPE 304/304L	ELBOW, 4", 90°, LR, SCH. 10S		1		1							
10		ASTM A403 WP-S TYPE 304/304L	ELBOW, 4", 90°, LR, SCH. 10S			1								
11		ASTM A182 GR F304/304L	FLANGE, 4", WN, RF, CL 150			2		1	1					
12		ASTM A182 GR F304/304L	FLANGE, 4", WN, RF, CL 150			2								
13		ROSEMOUNT	ORIFICE FLANGE UNION KIT, 4", WN, RF, CL 300	1496WN040A3FCSS0C1Q8					*	1				
14		ASTM A269	TUBE, 1/2" O.D., 0.065 WALL, SEAMLESS		AR									

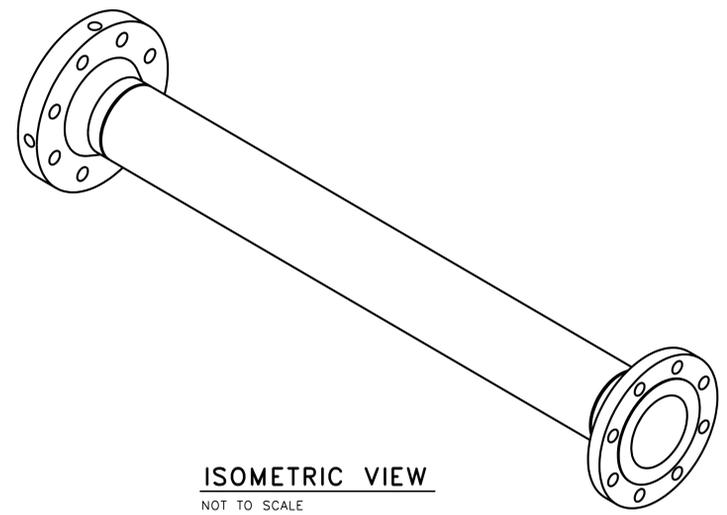


A SECTION
SCALE: 3" = 1'-0"

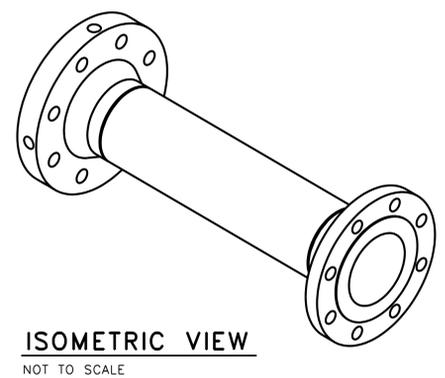
* 8. 10. 10.

GENERAL NOTES:

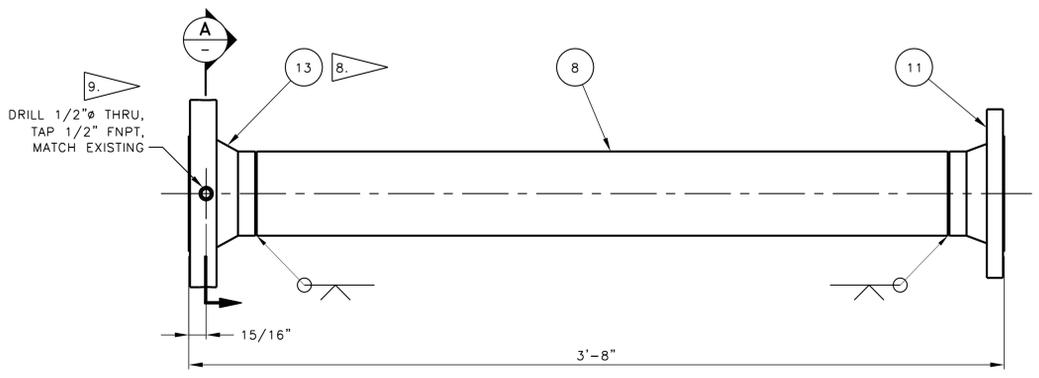
- REFERENCE P&ID DRAWING H-14-020131 ON ECN-711659.
- BEFORE FABRICATION, CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, OBSTRUCTIONS, AND EXISTING INSTALLED EQUIPMENT. SOME EXISTING FEATURES ARE NOT SHOWN FOR CLARITY.
- DIMENSIONS AND TOLERANCES SHALL BE PER ASME Y14.5M-1994. ALL DIMENSIONS ARE IN INCHES.
TOLERANCES ARE AS FOLLOWS:
DECIMAL: .X=±0.1, .XX=±0.02, .XXX=±0.005
FRACTIONAL: ± 1/8"
ANGULAR: ±2 DEGREES
MACHINED RADII: ±0.02 MAXIMUM
- DUCTWORK PIPING FABRICATION, INSTALLATION, VISUAL INSPECTION, AND TESTING SHALL BE IN ACCORDANCE WITH ASME B31.3, NORMAL FLUID SERVICE, EXCEPT AS NOTED OTHERWISE.
- STRUCTURAL MATERIALS, PIPE, AND PIPE FITTINGS SHALL BE PROVIDED WITH A CERTIFICATE OF CONFORMANCE TO THE REFERENCED STANDARD OR A CERTIFIED MATERIAL TEST REPORT.
- ALL DIMENSIONS TO PIPE FLANGES ARE TAKEN AT THE RAISED FACE OF THE FLANGE.
- ALL FLANGE ORIENTATIONS ARE TO BE "TWO HOLED" INDUSTRY STANDARD.
- 2 FLANGES, 2 GASKETS, 2 PIPE PLUGS, 8 STUDS AND 16 NUTS ARE SUPPLIED IN THE FLANGE UNION KIT (ITEM 13) PURCHASED TO FABRICATE THE BYPASS LINE WELDMENTS (ITEMS 1 AND 2). USE 1 FLANGE FOR EACH WELDMENT. SAVE THE ITEMS USED TO INSTALL THE ORIFICE PLATE SHOWN ON THE INSTALLATION ASSEMBLIES, DRAWING H-14-110387.
- DRILL AND TAP A THIRD HOLE IN THE FACTORY SUPPLIED FLANGE UNION PARTS, 90° FROM THE TWO EXISTING TAPPED HOLES, AS SHOWN.
- ITEM IS SAFETY SIGNIFICANT (SS).
- ALL ITEMS ARE GENERAL SERVICE (GS), UNLESS NOTED OTHERWISE.



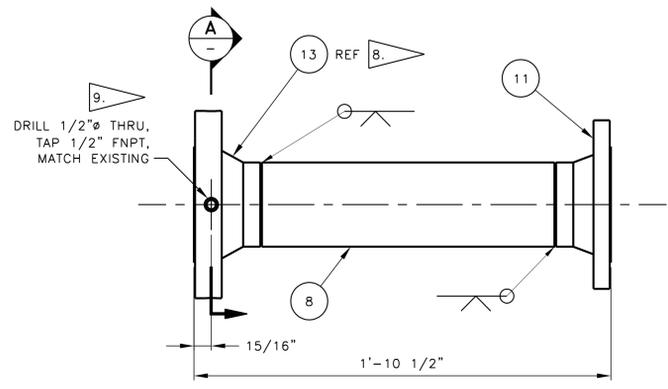
ISOMETRIC VIEW
NOT TO SCALE



ISOMETRIC VIEW
NOT TO SCALE



1 BYPASS LINE WELDMENT - UPSTREAM
SCALE: 3" = 1'-0"



2 BYPASS LINE WELDMENT - DOWNSTREAM
SCALE: 3" = 1'-0"

DATE:
Sep 21, 2015

BLDG. NO. 241-SY	CAUTION NOT COMPLETE WITHOUT CURRENT CHANGE DOCUMENTS FROM DATABASE	ATTENTION DESTROY THIS DOCUMENT BY SHREDDING MAY CONTAIN SENSITIVE INFORMATION
DESIGNER B. A. LILLY	DATE 9/20/2015	COMPANY KUR
DRAWING ENGINEER Z. J. FITZGERALD	DATE 9/20/2015	SCALE AS SHOWN
DESIGN ENGINEER A. J. TYLER	DATE 9/20/2015	INDEX NO. 8900
DESIGN AUTHORITY R. E. FLYE	DATE 9/21/2015	INDEX NO. 8900
U.S. DEPARTMENT OF ENERGY Office of River Protection		
DST FLOW MONITORING SY FARM PIPING FABRICATION		
SIZE F	DRAWING NUMBER H-14-110388	SHEET 1
SCALE SCALE SHOWN		REV 00

DWG NUMBER	TITLE	REF NUMBER	TITLE	WFO	REV NO.	DESCRIPTION
					0	INITIAL RELEASE PER EDT-850323
DRAWING TRACEABILITY LIST			REFERENCES		REVISIONS	
NEXT USED ON						