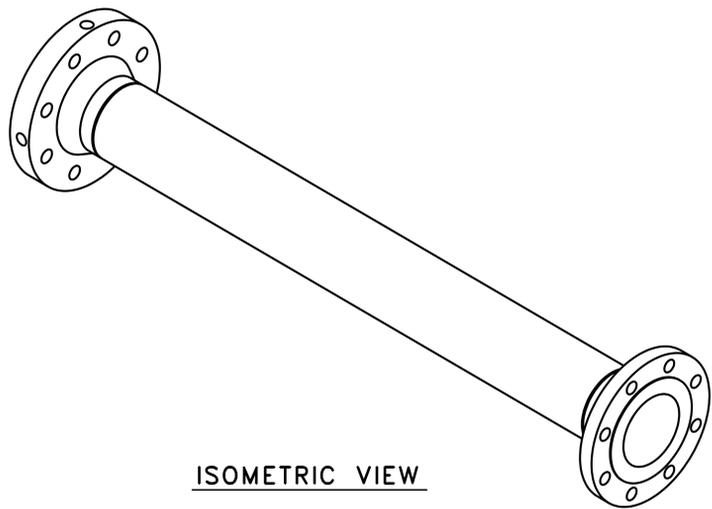


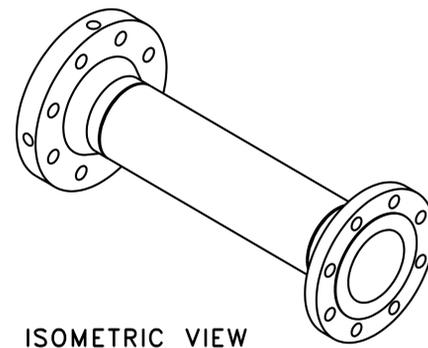
GENERAL NOTES:

- REFERENCE P&ID DRAWING H-14-020102.
- 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, UNLESS NOTED OTHERWISE. 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 14) 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-14-110402.
- 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.
- ALL ITEMS ARE GENERAL SERVICE (GS), UNLESS NOTED OTHERWISE.
- FIELD FIT 1/2" INSTRUMENT TUBING - LONG (ITEM 7).

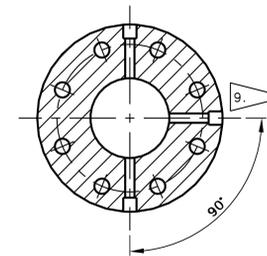
QTY REQD							PARTS/DASH NUMBER	NOMENCLATURE/DESCRIPTION	MATERIAL/REFERENCE	SHEET	ITEM NO
-070	-060	-050	-040	-030	-020	-010					
							-010	BYPASS LINE WELDMENT - UPSTREAM		1	1
							-020	BYPASS LINE WELDMENT - DOWNSTREAM		1	2
							-030	FLANGED ELBOW WELDMENT (SS)		2	3
							-040	FLANGED ELBOW WELDMENT (GS)		2	4
							-050	INSTRUMENT STAND WELDMENT		2	5
							-060	1/2" INSTRUMENT TUBING - SHORT		2	6
							-070	1/2" INSTRUMENT TUBING - LONG		2	7
											8
					AR	AR		DUCT, 4" SCH. 10S PIPE, SEAMLESS	ASTM A312 TP304/304L		9
				1				ELBOW, 4", 90°, LR, SCH. 10S	ASTM A403 WP-S TYPE 304/304L		10
				1				ELBOW, 4", 90°, LR, SCH. 10S	ASTM A403 WP-S TYPE 304/304L		11
				2	1	1		FLANGE, 4", WN, RF, CL 150	ASTM A182 GR F304/304L		12
				2				FLANGE, 4", WN, RF, CL 150	ASTM A182 GR F304/304L		13
						*	1	1496WN040A3SFCSSQC108	ORIFICE FLANGE UNION KIT, 4", WN, RF, CL 300	ROSEMOUNT	14
								PIPE, SCH 40, 2"	ASTM A312/A733 STAINLESS		15
							1	PLATE, 1/2", 6" X 6" LG	ASTM A240 304/304L STAINLESS		16
								TUBE, 1/2" O.D., 0.065 WALL, SEAMLESS	ASTM A269		17



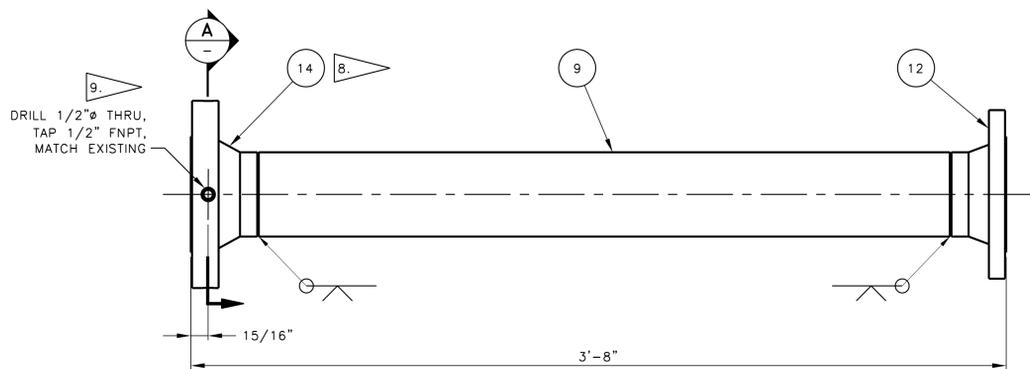
ISOMETRIC VIEW



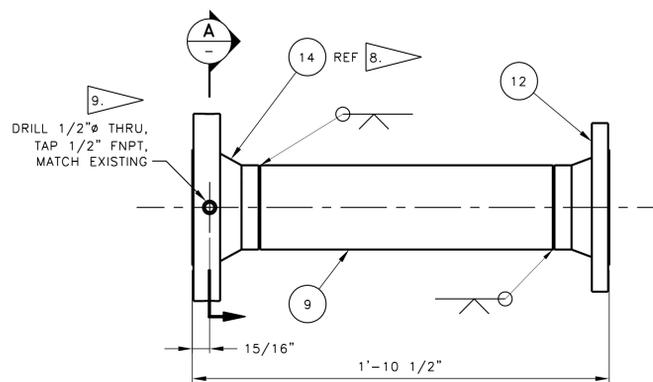
ISOMETRIC VIEW



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



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



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

DATE: Sep 25, 2015
HANFORD RELEASE

BLDG. NO. 241-AW	CAUTION NOT COMPLETE WITHOUT CURRENT CHANGE DOCUMENTS FROM DATABASE	ATTENTION DESTROY THIS DOCUMENT BY SHREDDING MAY CONTAIN SENSITIVE INFORMATION
DESIGNER B. A. LILLY	DATE 9/21/2015	COMPANY URS
DRAWING CHECKER Z. J. FITZGERALD	DATE 9/21/2015	REVISED
DESIGN ENGINEER A. J. TYLER	DATE 9/21/2015	REVISED
DESIGN AUTHORITY R. E. FLYE	DATE 9/21/2015	REVISED
INDEX NO. 8900	U.S. DEPARTMENT OF ENERGY Office of River Protection	
DST FLOW MONITORING AW FARM PIPING FABRICATION		
DRAWING NUMBER F H-14-110403		SHEET 1
SCALE SCALE SHOWN		REV 00

DWG NUMBER	TITLE	REF NUMBER	TITLE	WFO	REV NO.	DESCRIPTION
					0	INITIAL RELEASE PER EDT-850417
DRAWING TRACEABILITY LIST				REVISED		
NEXT USED ON				REFERENCES		
				REVISIONS		