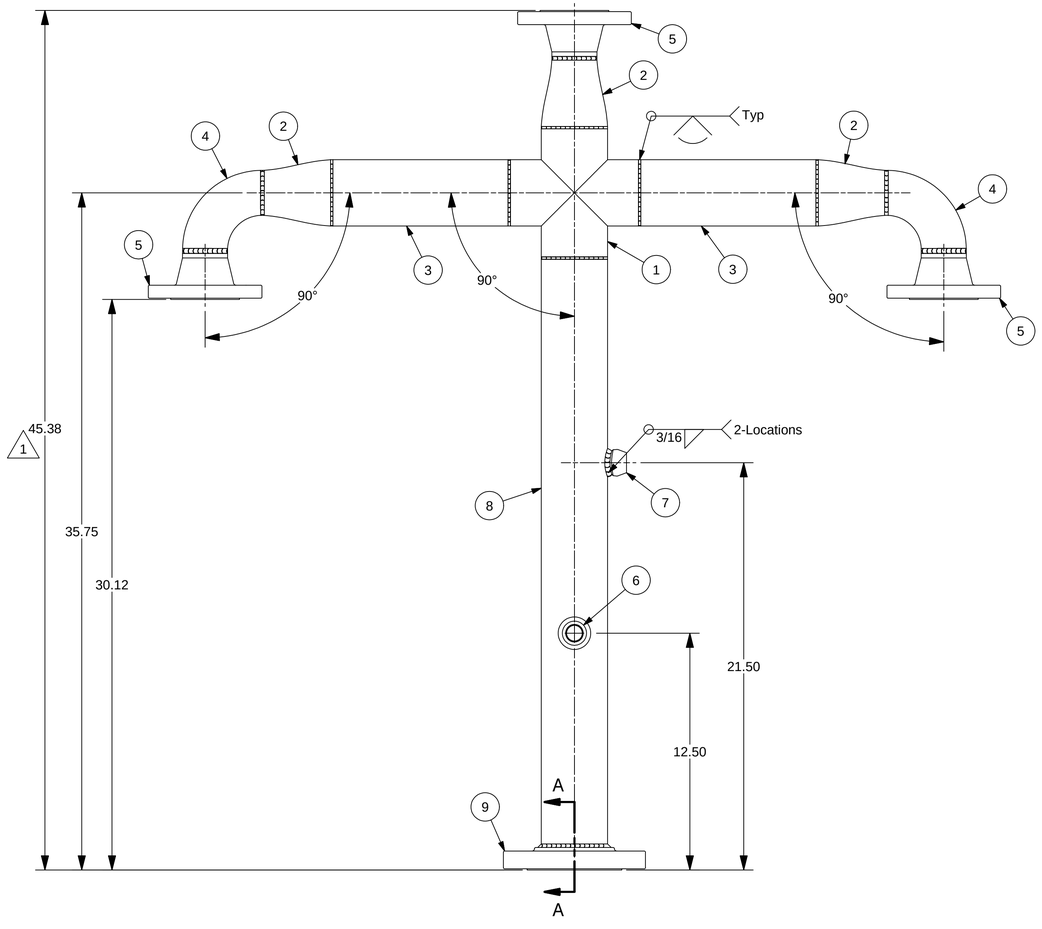

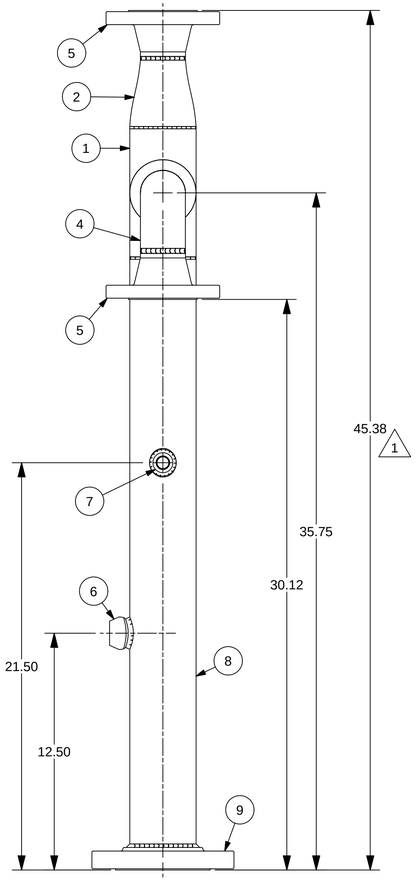

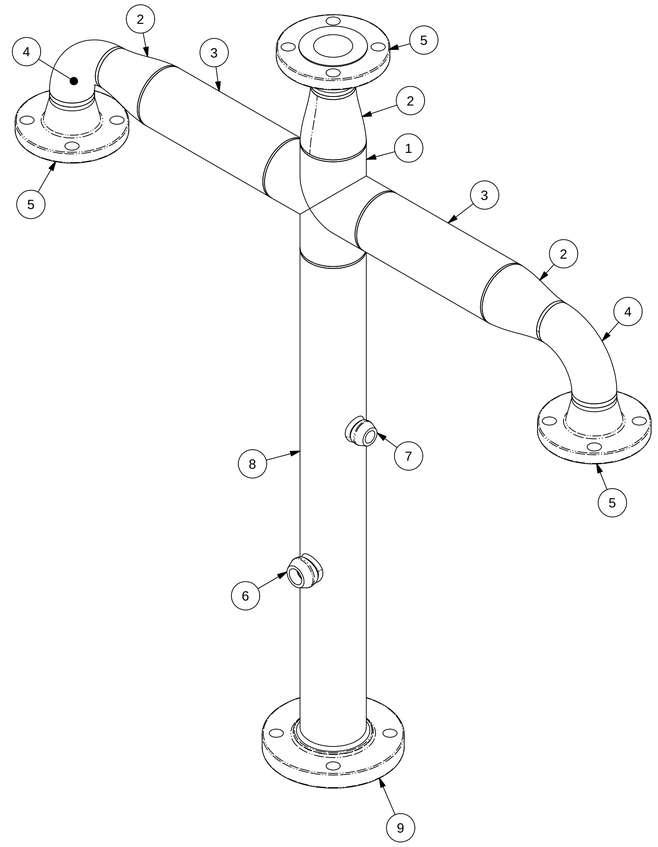

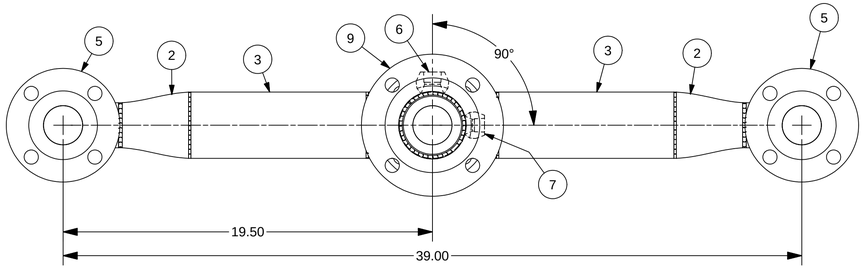

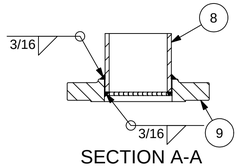

SECTION A-A

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	THICKNESS	LENGTH	WIDTH
9	1		3" x 150# SLIP-ON FLANGE	SLIP-ON FLANGE CS			
8	1		PIPE	3" - Sch40 CS PIPE SEAMLESS		31.74 in	
7	1		3"x1/2" THREADOLET	THREADOLET 3000# - CS			
6	1		3"x3/4" THREADOLET	THREADOLET 3000# - CS			
5	3		2" x 150# WELD NECK FLANGE	WELD NECK FLANGE CS			
4	2		2" x 90Deg LONG RADIUS	Sch40 ELBOW CS			
3	2		PIPE	3" - Sch40 CS PIPE SEAMLESS		9.25 in	
2	3		3 x 2 CONCENTRIC REDUCER	Sch40 CONCENTRIC BUTT WELD REDUCER CS			
1	1		3" Sch40 STRAIGHT CROSS	Sch40 STRAIGHT CROSS - CS			

BILL OF MATERIAL

NOTES:
1. WELD CONNECTIONS: VISUALLY INSPECT ALL WELD CONNECTIONS.
2. WELDS ARE TO BE 1/16" LESS THAN THE MINIMUM THICKNESS OF MATERIAL WHERE NOT SPECIFICALLY CALLED OUT OR NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE D1.1. ALSO ASME/ANSI B16 STANDARDS FOR PIPES & FITTINGS AND FOLLOW THE PROPER WPS POSTED IN WORK AREA.
3. ALL MATERIAL FOR CARBON STEEL TUBING SHALL BE ASTM A554, WELDED ASTM A249, SEAMLESS ASTM A269, PIPE ASTM A312 UNLESS OTHERWISE STATED.
4. DO NOT PAINT INTERNALLY OR EXTERNALLY THREADED PARTS OR PARTS WITH FINISHED SURFACES THAT HAVE BEEN MACHINED FOR TIGHT TOLERANCE FITUP.
5. PAINT FINISH:
   SEE GENERAL ARRANGEMENT DRAWING AND OR WORK ORDER FOR PAINT TYPE AND COLOR

REV	DESCRIPTION	AUTHOR	DATE	CHECKED B	QA/QC
1	CHG DISCH PIPE 4" TO 3"	S. Boerckel	2/15/2011	T. KOONTZ	B. MADDUX
0	ISSUED FOR FABRICATION	S. Boerckel	1/25/2011	T. KOONTZ	B. MADDUX

REVISION HISTORY

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON DECIMALS
X.X ± 0.10
X.XX ± 0.06
X.XXX ± 0.03
HOLE DIA ± 0.03
ANGLES ± 0.50°
SURFACE √ HFS-SF
SQUARENESS ± 0.06
DO NOT SCALE DRAWING

DRAWN	S. Boerckel	1/25/2011
CHECKED	T. KOONTZ	2/3/2011
QA	B. MADDUX	2/3/2011
REVIEWER		
PROJECT NO	409-2956-1	
CUSTOMER	EDC - MARGARITA ISLAND	
JOB NO		

ProEnergy SERVICES.
2201 ProEnergy Blvd
SEDALIA, MISSOURI 65301 USA
PHONE: 1-660-829-5100
FAX: 1-660-829-1160

TITLE
PUMP DISCHARGE HEADER
WELDMENT
LIQUID FUEL FORWARDING SKID - 7EA

SIZE	ML:	DWG NO	REV
D		409-2956-LFF7EA-0740-1	1

SCALE: 1/4"=1" WEIGHT: 73 lbmass SHEET 1

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Document Control
Feb 15, 2011