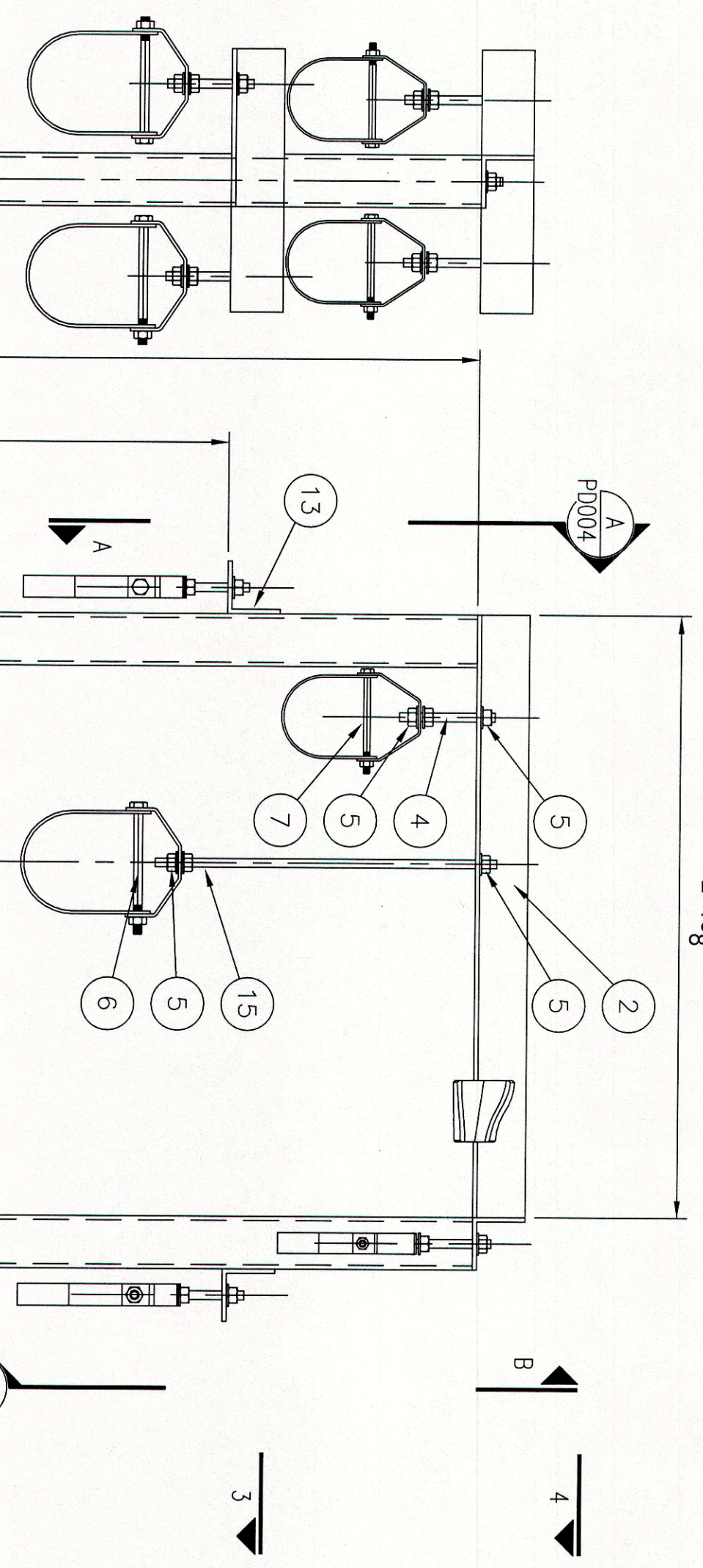
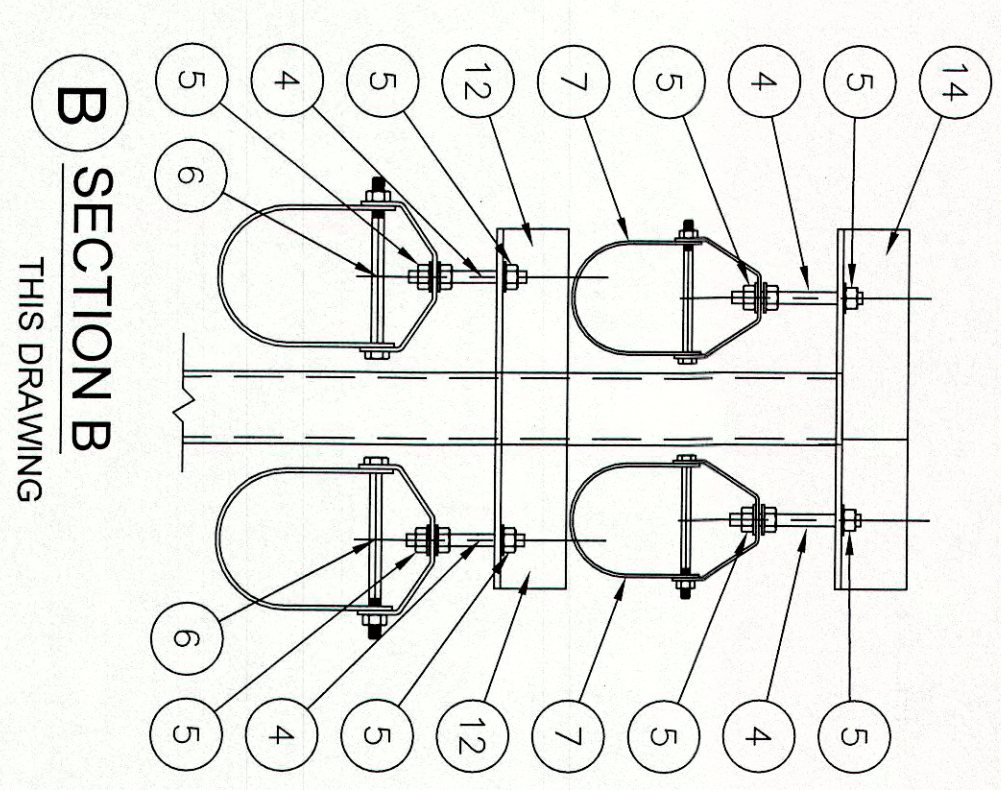
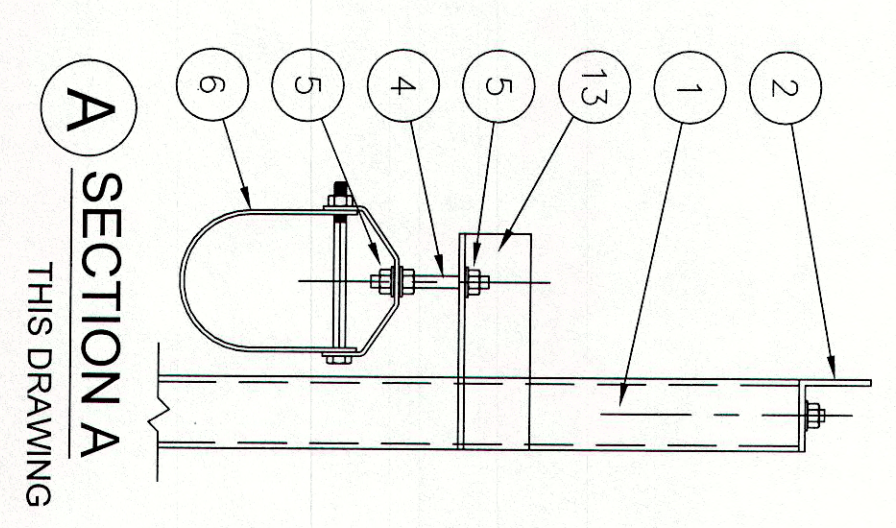


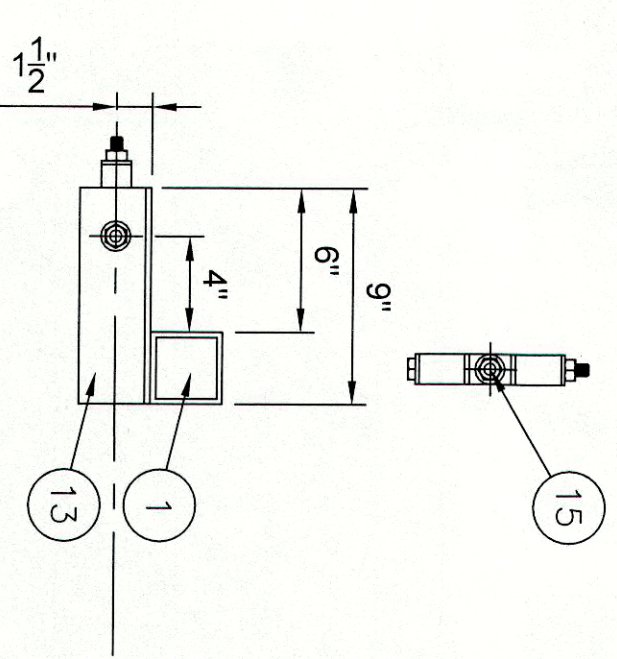
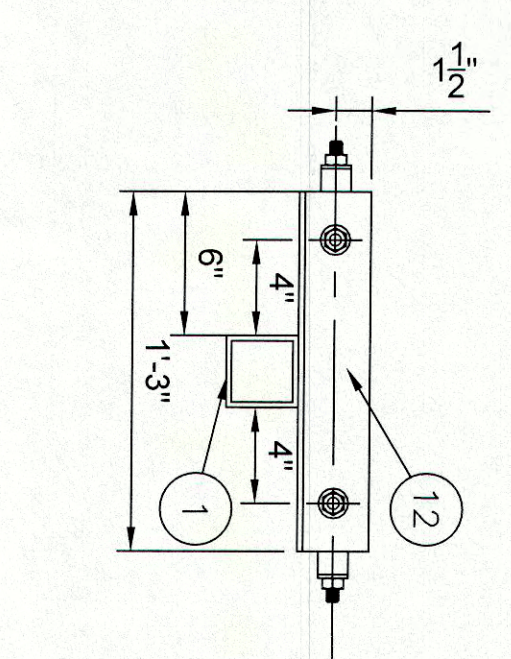
1 BASE PLATE PLAN

2 FILTER ANGLE PLAN



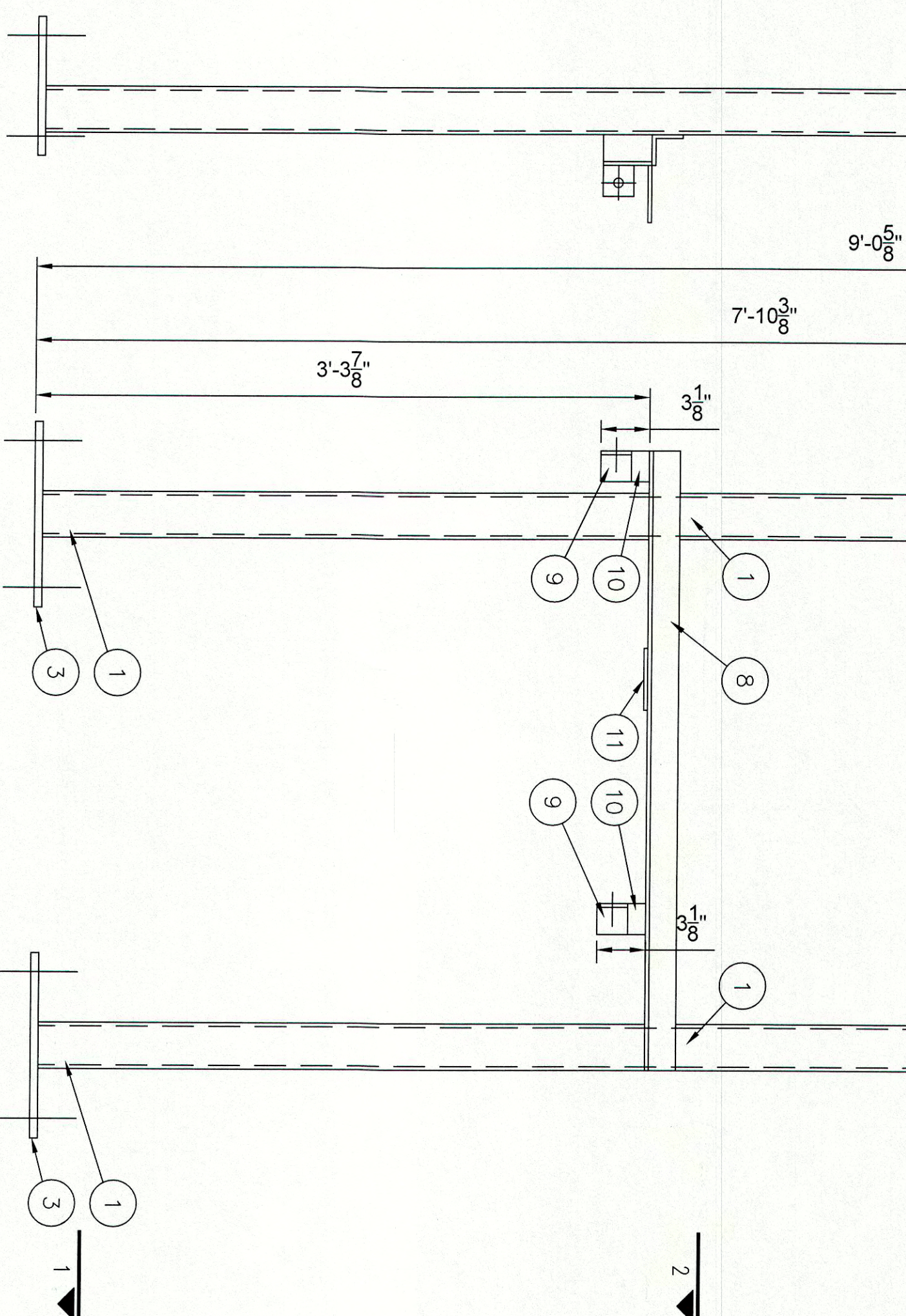
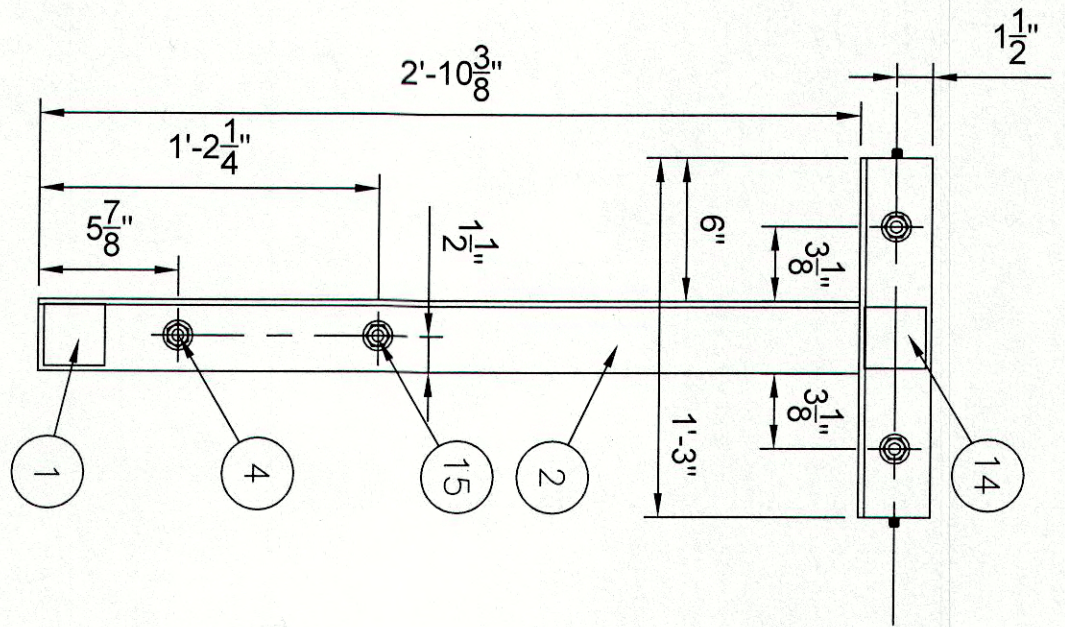
MATERIAL LIST		
IDENTIFICATION	QTY./ ITEM ASSY	DESCRIPTION
(G)	PIPE SUPPORT	
QTY: 1		
1	2	TUBE - TS3x1/4", 9-0 1/8" LONG
2	1	ANGLE - 3-X3"x1/4", 2'-10 3/8" LONG
3	2	PLATE - 1/2"x9"x1/2"
4	6	ROD, SST. THREADED - 1/2"-13 x6"
5	A/R	NUT, WASHER, SST., 1/2"-13 NC.
6	4	HANGER, PIPE, 304 SST., 5.9/16" DIA., McMASTER CARR
		33097622, OR EQUAL
7	3	HANGER, PIPE, 304 SST., 4 1/2" DIA., McMASTER CARR
		33097612, OR EQUAL
8	1	ANGLE - 2-X2"x1/4", 3-4 1/8" LONG
9	2	ANGLE - 2-X2"x1/4", 2" LONG
10	2	ANGLE - 2-X2"x1/4", 3 1/8" LONG
11	1	PLATE - 5-3/4"x6"x1/4", DRILL IN FIELD TO MATCH DI FILTER
12	1	ANGLE - 3-X3"x1/4", 1'-3" LONG
13	1	ANGLE - 3-X3"x1/4", 9" LONG
14	1	ANGLE - 3-X3"x1/4", 1'-3" LONG
15	1	ROD, SST. THREADED - 1/2"-13 X19 1/2"

A/R = AS REQUIRED

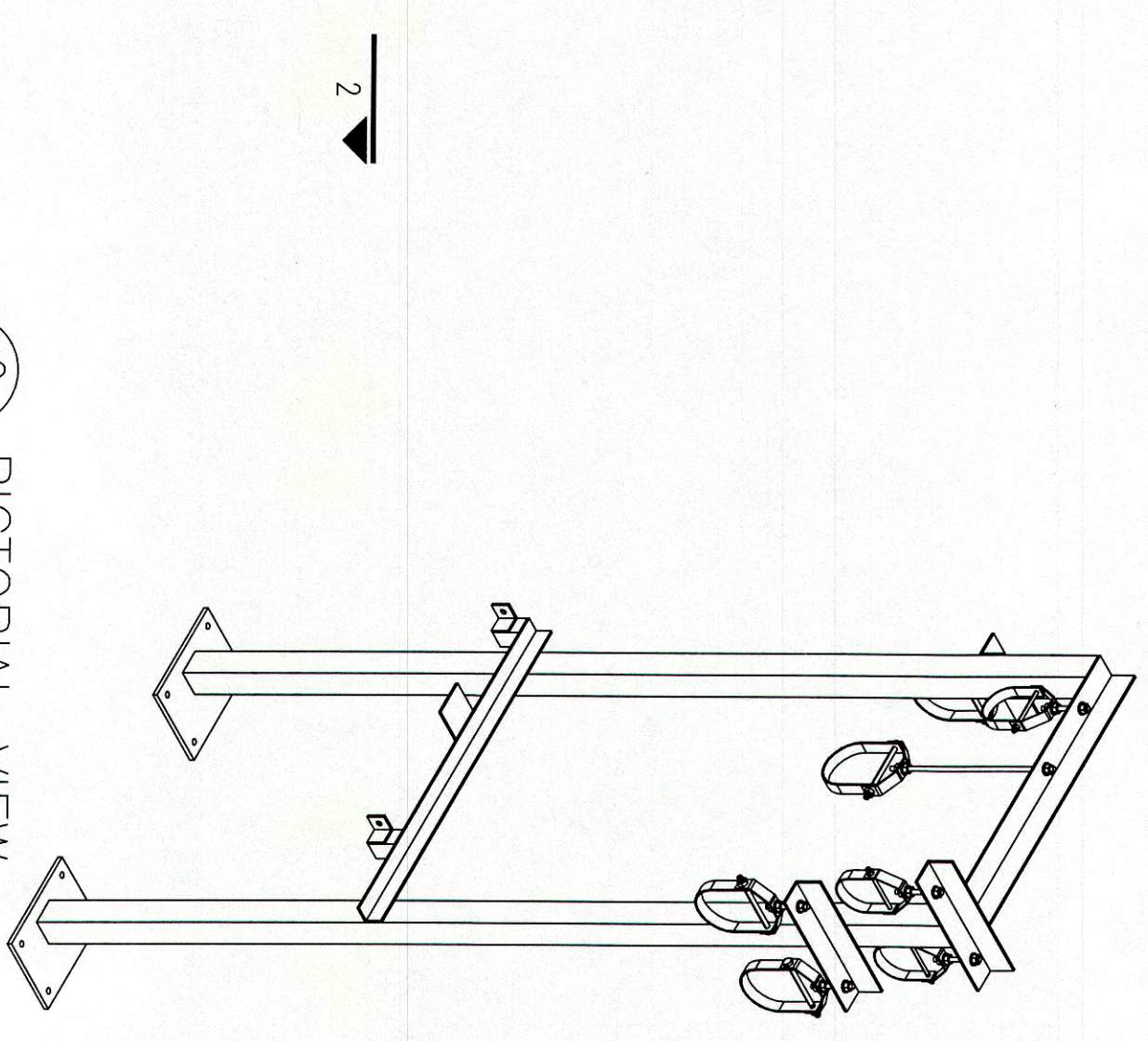


3 PIPE SUPPORT PLAN

4 TOP SUPPORT PLAN



PIPE SUPPORT FRAME



6 PICTORIAL VIEW
THIS DRAWING SCALE: NONE

STRUCTURAL NOTES - UNLESS OTHERWISE SPECIFIED:

1. ALL WIDE FLANGE SECTIONS ARE TO BE ASTM A992 STEEL. ALL ANGLES, CHANNELS, AND PLATE SECTIONS ARE TO BE ASTM A36 STEEL. ALL STRUCTURAL TUBE SHAPES ARE TO BE ASTM A500 STEEL.
2. ALL WELDS ARE MADE WITH E70XX ELECTRODES.
3. ALL WELDS NOT SHOWN ARE 1/4" FILLET WELDS ALL AROUND.
4. ALL BOLTS ARE A325.
5. FABRICATOR TO SUPPLY ALL MATERIALS INCLUDING NUTS, BOLTS AND WASHERS.
6. PRIME AND PAINT CARBON STEEL YONG SIGNAL WHITE, RAL 9003, OR GALVANIZE AFTER FABRICATION.
7. EQUIPMENT AND PIPE SUPPORT CONCRETE ANCHORS ARE HILLT DROP IN TYPE, OR EQUAL, WITH GALVANIZED NUTS AND WASHERS
8. VOID ALL PRINTS BEARING PREVIOUS REVISION DATES

OPTIMIZATION SOLUTIONS AND SERVICES
50 High Town Dr. Suite 101 16443 (585) 571-2200 www.optimization.us

ISSUED FOR
FABRICATION
DATE: 15JAN2018

REF. DWG.			DWG. SIZE		
			D		
			ISSUE		
			A		
ISSUE	DATE	BY	APPROD.	DESCRIPTION	
A	15JAN2018	JHH/OTI		ISSUED FOR FABRICATION	
PROPRIETARY & CONFIDENTIAL			The design and detailed information illustrated on this document shall remain the property of the design and engineering Company, and their contracted client. Use of any portion of this information for purposes not specified by the terms of that contract is strictly prohibited.		
			UNLESS OTHERWISE NOTED:		
			1) ALL DIMENSIONS ARE IN INCHES		
			2) BREAK ALL SHARP EDGES		
			3) TOLERANCES (NON ACCUMULATIVE):		
			FOR MACHINED SURFACES:		
			DECIMAL 1 P.C. ±.03"		
			DECIMAL 2 P.C. ±.01"		
			DECIMAL 3 P.C. ±.005"		
			FRACTIONAL 3/16" ±.007"		
			ANGLES 1/4° ±.1°		
			FOR FABRICATION, WELDMENTS, SAWCUT SURFACES, BENDS:		
			DECIMAL 1 P.C. ±.03"		
			DECIMAL 2 P.C. ±.01"		
			FRACTIONAL 3/16" ±.007"		
			ANGLES 1/4° ±.1°		
			STATE OF NEW YORK REGISTERED PROFESSIONAL ENGINEER No. 097189 JHH		
			COMMONWEALTH OF MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER No. 23800 JHH		
			CUST. APPROV. DATE		
			APPROV. DATE		
			DRAWN JHH/OTI DATE 21NOV2017		
			CHECKED DATE		
			APPROV. DATE		
			SCALE 0 1/2" 1" AT TRUE SCALE		
			NOTED		
			OTI PROJECT NO. M17-1059		
			SHT 1 OF 1		
			DRAWING NO. PD004		
			PIPE SUPPORT DETAILS SHEET 3		