

# pH ADJUSTMENT TANK DETAIL

## MODEL ENSP 250

- GENERAL NOTES:**
- ALL PVC PIPING IS SCHEDULE 80.
  - SUBCONTRACTOR TO PROVIDE EPDM/VITON GASKET MATERIAL, STAINLESS STEEL NUTS AND BOLTS FOR PIPING INTERCONNECT HARDWARE.
  - SOME INSTRUMENT COMPONENTS PROVIDED BY SIEMENS ARE SHIPPED LOOSE AND NEED REINSTALLATION BY SUBCONTRACTOR.

PLANT AIR  
(BY CUSTOMER)

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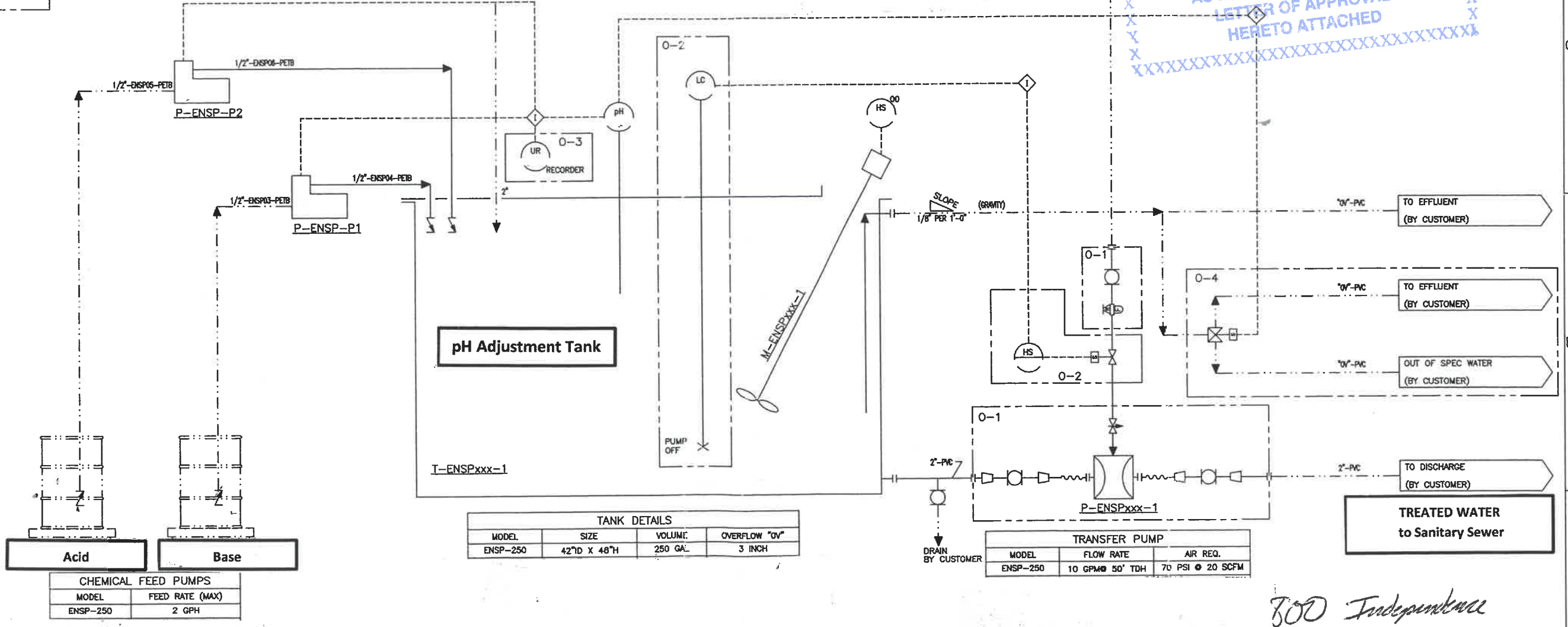
INFLUENT  
(BY CUSTOMER)

**From Sump Detail #2**  
(See 3/MP 601)

- OPTIONS**
- O-1 - MANUAL BATCH OPTION
  - O-2 - SEMI-AUTO BATCH OPTION
  - O-3 - CHART RECORDER
  - O-4 - DIVERSION VALVE

MIXER DETAILS		
MODEL	HP	ELECTRICAL
ENSP-250	0.25	115/208-230V/1ϕ/60HZ

XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 INDUSTRIAL WASTE DISPOSAL  
**APPROVED**  
 OHIO ENVIRONMENTAL PROTECTION AGENCY  
 AS EVIDENCED BY COPY OF  
 LETTER OF APPROVAL  
 HERETO ATTACHED  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX



TANK DETAILS			
MODEL	SIZE	VOLUME	OVERFLOW "OV"
ENSP-250	42"ID X 48"HI	250 GAL.	3 INCH

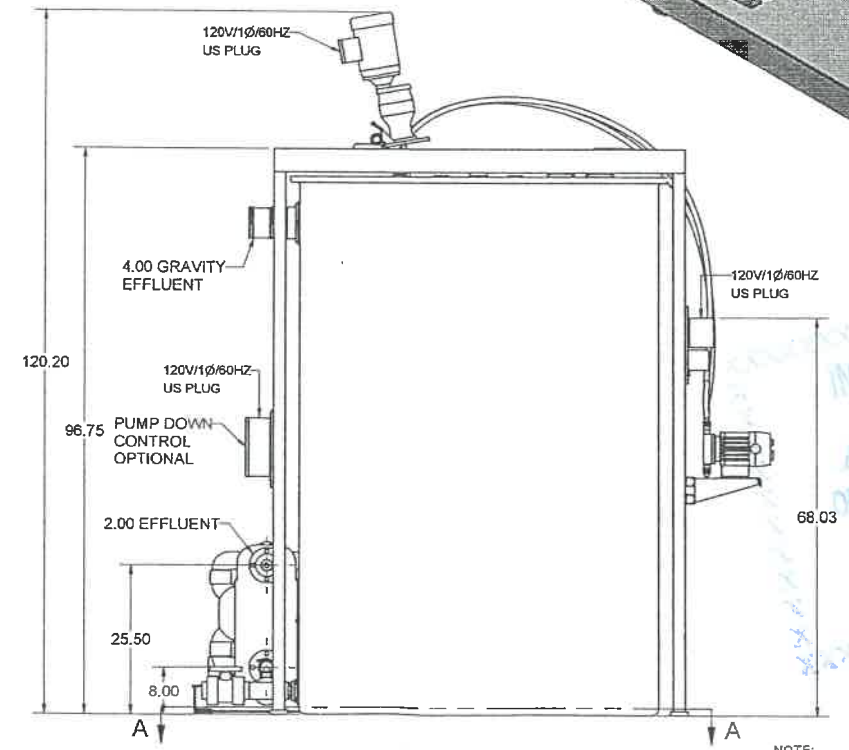
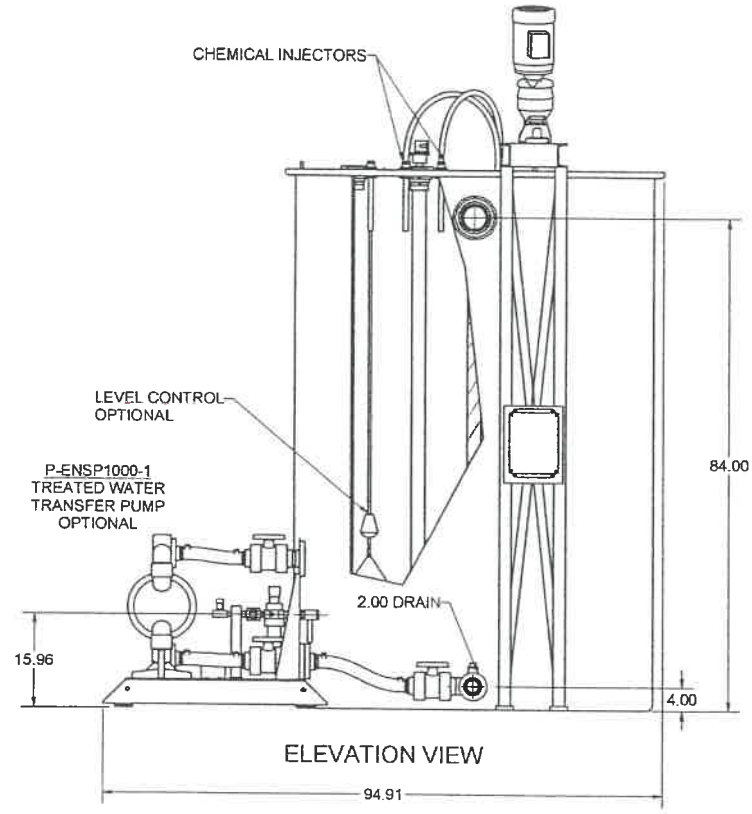
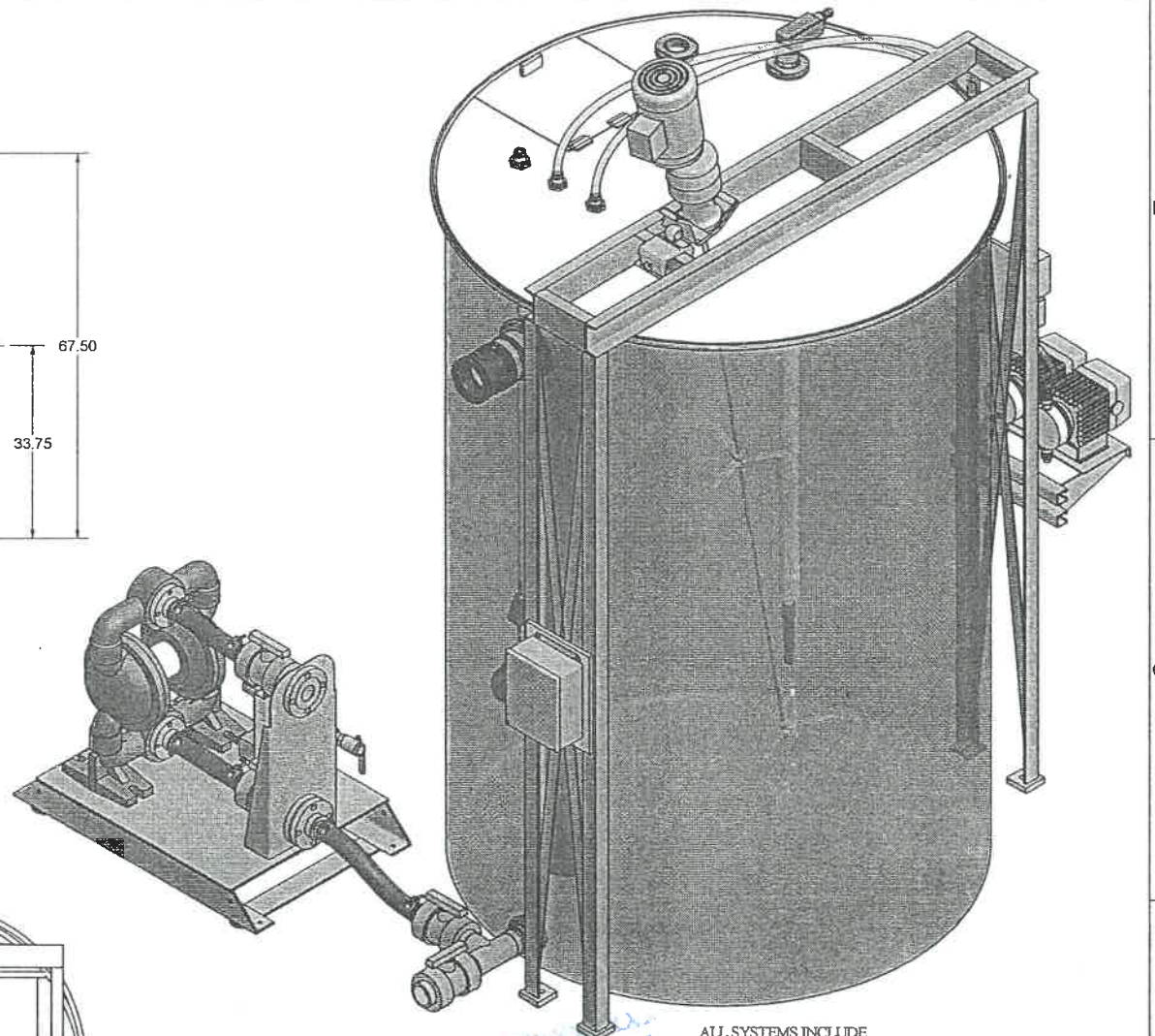
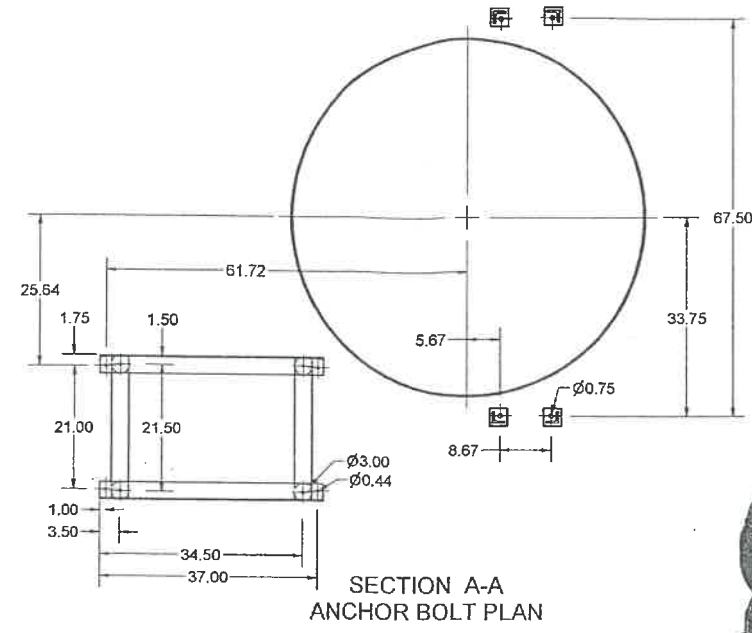
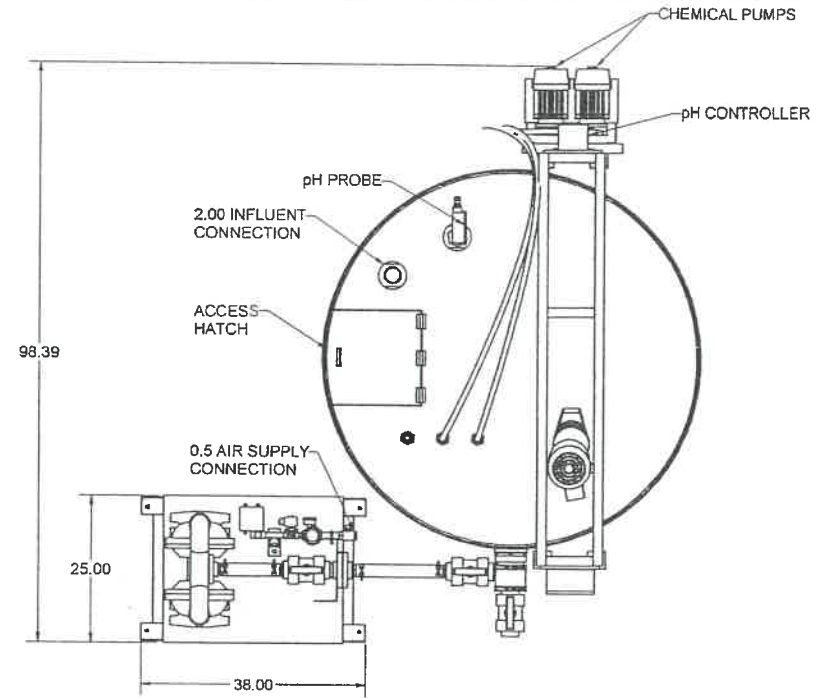
TRANSFER PUMP		
MODEL	FLOW RATE	AIR REQ.
ENSP-250	10 GPM @ 50' TDH	70 PSI @ 20 SCFM

CHEMICAL FEED PUMPS	
MODEL	FEED RATE (MAX)
ENSP-250	2 GPH

*800 Independence*

*9-26-12 - Per D. James Added Labeling*

<p><b>THIRD ANGLE PROJECTION</b></p> <p>ALL WELD SYMBOL DIMENSIONS ARE MINIMUM. DIMENSIONS IN (mm) ARE MILLIMETERS. DO NOT SCALE DRAWING.</p>	<p>DRAWN PER ASME Y14.5M UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES AND TOLERANCES TO BE AS FOLLOWS:</p> <table border="0"> <tr> <td>FABRICATION</td> <td>MACHINE</td> </tr> <tr> <td>.XX ± .06</td> <td>.XX ± .03</td> </tr> <tr> <td>[X ± 2]</td> <td>.XXX ± .005</td> </tr> <tr> <td>&lt; ± 2</td> <td>[X ± 1]</td> </tr> <tr> <td></td> <td>[X ± .1]</td> </tr> <tr> <td></td> <td>&lt; ± 1"</td> </tr> </table>	FABRICATION	MACHINE	.XX ± .06	.XX ± .03	[X ± 2]	.XXX ± .005	< ± 2	[X ± 1]		[X ± .1]		< ± 1"	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DWN</th> <th>CHKD</th> <th>APVD</th> <th>ECH</th> <th>REV</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>ISSUE FOR INFORMATION ONLY</td> <td>8/29/12</td> <td>RAD</td> <td>ANW</td> <td>-</td> <td>-</td> <td></td> <td></td> </tr> </tbody> </table>	REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECH	REV	DESCRIPTION	A	ISSUE FOR INFORMATION ONLY	8/29/12	RAD	ANW	-	-			<p><small>COMPANY CONFIDENTIAL</small></p> <p>THIS DOCUMENT AND ALL INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF SIEMENS AND/OR ITS AFFILIATES. THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY TO SIEMENS AND ARE SUBMITTED IN CONFIDENCE. THEY ARE NOT TRANSFERABLE AND MUST BE USED ONLY FOR THE PURPOSE FOR WHICH THE DOCUMENT IS SUBMITTED. IN NO EVENT SHALL THEY BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF SIEMENS. ALL PATENT RIGHTS ARE RESERVED. UPON THE DEMAND OF SIEMENS, THIS DOCUMENT, ALONG WITH ALL COPIES AND EXTRACTS, AND ALL RELATED NOTES AND ANALYSES, MUST BE RETURNED TO SIEMENS OR DESTROYED AS INSTRUCTED BY SIEMENS. ACCEPTANCE OF THE DELIVERY OF THIS DOCUMENT CONSTITUTES AGREEMENT TO THESE TERMS AND CONDITIONS.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNER</td> <td>DATE</td> <td>TITLE</td> </tr> <tr> <td>WALLS</td> <td>3/23/07</td> <td>PROCESS FLOW DIAGRAM ENSP</td> </tr> <tr> <td>CHECKER</td> <td>DATE</td> <td>PV Assembly Facility</td> </tr> <tr> <td>ENGINEER</td> <td>DATE</td> <td>CLIENT</td> </tr> <tr> <td>MANAGER</td> <td>DATE</td> <td>Isofoton, Napoleon, OH</td> </tr> </table> <p><b>SIEMENS</b> INDUSTRY HOLLAND, MICHIGAN USA TEL: 616-772-9011</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT</td> <td>CODE</td> <td>DRAWING</td> <td>SHEET</td> <td>REV</td> </tr> <tr> <td>PRO</td> <td></td> <td>20681486</td> <td>1 OF 1</td> <td>A</td> </tr> </table>	DESIGNER	DATE	TITLE	WALLS	3/23/07	PROCESS FLOW DIAGRAM ENSP	CHECKER	DATE	PV Assembly Facility	ENGINEER	DATE	CLIENT	MANAGER	DATE	Isofoton, Napoleon, OH	PROJECT	CODE	DRAWING	SHEET	REV	PRO		20681486	1 OF 1	A
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APPROVED  
 INDUSTRIAL WASTE DISPOSAL  
 AND ENVIRONMENTAL PROTECTION AGENCY  
 AS EVIDENCED BY COPY OF  
 LETTER OF APPROVAL  
 HERETO ATTACHED

- ALL SYSTEMS INCLUDE**
- ONE HDPE TANK
  - SINGLE PHASE MIXER WITH BRIDGE
  - ONE LMI pH CONTROLLER
  - TWO LMI CHEMICAL PUMPS
  - CHEMICAL INJECTORS
  - ONE pH PROBE
  - ALARM BOX
  - 2" DRAIN VALVE
- FLOW THROUGH SYSTEM ALSO INCLUDES**
- ONE 4" GRAVITY EFFLUENT
- OPTIONAL MANUAL BATCH SYSTEM ALSO INCLUDES**
- ONE AOD PUMP SKID
  - ONE 2" SUCTION BALL VALVE
- OPTIONAL SEMI-AUTOMATIC BATCH SYSTEM ALSO INCLUDES**
- ONE AOD PUMP SKID
  - ONE 2" SUCTION BALL VALVE
  - ONE LEVEL CONTROL
  - ONE PUMP DOWN CONTROL BOX
- OPTIONS (ARE NOT SHOWN ON DRAWING)**
- DIVERSION VALVE (FLOW THROUGH ONLY)
  - CHART RECORDER
  - GASKET MATERIAL (EPDM OR VITON)

NOTE:  
 1. DRAWING IS FOR REFERENCE ONLY. CONSULT FACTORY FOR DETAILED CONSTRUCTION DRAWINGS AND SPECIFICATIONS.  
 2. SIEMENS RESERVES THE RIGHT TO CHANGE EQUIPMENT SPECIFICATIONS, OPTIONS, AND PRICING AND/OR DISCONTINUE MODELS AND OPTIONS AT ANY TIME WITHOUT NOTICE OR OBLIGATION. ILLUSTRATED EQUIPMENT MAY INCLUDE OPTIONAL COMPONENTS.

3RD ANGLE PROJECTION  
 UNLESS OTHERWISE NOTED TOLERANCES TO BE:  
 CUT & WELD MACHINE  
 XX ± .06 XX ± .03  
 [X ± .2] [X ± .05]  
 ± .02 [X ± .1] [X ± .1]  
 ± .01 [X ± .1]  
 DIMENSIONS IN [ ] ARE DIMENSIONS DO NOT SCALE DRAWING  
 STD: 2-0200-22X34D

0	INITIAL RELEASE	4/17/08	WALLS
INTL REF			

FLOW THROUGH  
 DRY WEIGHT = 800 lbs.  
 OPER. WEIGHT = 9,200 lbs.

REV	DESCRIPTION	DATE	DWH	CHKD	APVD	ECH

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DESIGNER WALLS	DATE 4/17/08	TITLE WASTEWATER TREATMENT SYSTEM EQUIPMENT ARRANGEMENT ENSP-1000 MARKETING DRAWING
CHECKER	DATE	CLIENT STANDARD Isofoton, Napoleon, OH
ENGINEER	DATE	<b>SIEMENS</b> WATER TECHNOLOGIES WARRENDALE, PA 15086 TEL: 1-866-525-0621
MANAGER	DATE	
FILE: 370-ENSP1000-L02-01.dwg	SCALE: 1:12	PROJECT EPO00XX
		CODE ENSP1000
		DRAWING L02
		SHEET 1 OF 1
		REV -

BAR= 1" AT PLOT SCALE



