

## Stock 2,000 BPD Stabilization Package:

### Package Description:

A condensate stabilization system fully designed in a single modular skid. The system is capable of stabilizing 2,000 BPD of liquid condensate to a Reid Vapor Pressure (RVP) spec of 9 psia. The system is designed to handle an inlet Pressure of 75 Psia @120°F and produce a stabilized Condensate outlet of 60 Psia @130 °F.

The system comprises of 3 pressure vessels, 2 Exchangers and a Heater as main components further details are listed below.

### Process Description:

Stabilization is accomplished through the use of a Liquid / Liquid exchanger (E-101) where the feed condensate is pre heated from the Hot stabilized condensate through cross exchange. The preheated condensate is then passed on to an Indirect Fired heater (H-102) to temperatures high enough to stabilize the condensate. The condensate from indirect fired heater (H-102) is then passed to a 3-Phase Vertical separator (V-105), where free water settles down in the bottom, stabilized condensate is drawn from upper section and the gas is taken out from the top. The stabilized condensate is then passed through the inlet cross exchanger – Liquid / Liquid Exchanger (E-101) and terminated at skid end flange as product. While the vapor from the separator is then cooled by Ambient through an overhead vapor condenser (E-106) – a pipe coil condenser. Partial condensation of Vapor and HC condensate from the overhead vapor condenser is sent through a secondary separator (V-107), where the vapor is sent as Fuel gas- can be used to run the Indirect Fired Heater (H-102). The Liquid is sent to a NGL blow case vessel (V-108) where high pressure either from an external source or from the secondary separator is used to blow down the liquid to the skid edge flanged connection.

### List of Major Equipment:

#	Description	Type	Dimension / Capacity	Design Conditions
E-101	Liquid / Liquid Exchanger	Platecoil	Duty: 1,382,554 Btu/Hr Surface Area: 1,132 ft <sup>2</sup>	MAWP: 200 Psig @ 350 °F
E-106	Overhead Vapor Condenser	Pipecoil	Duty: 109,075 Btu/Hr Surface Area: 4,423 ft <sup>2</sup>	MAWP: 150 Psig @ 300 °F
F-104	Fuel Gas Filter	--	--	--
H-102	Stabilizer Heater	Fired Tube	Duty: 1,500,000 Btu/Hr Fire Box Area: 67.02 ft <sup>2</sup>	MAWP SS: 0 Psig @ 350 °F

			Heating Coil: 8 pass - 117 Ft <sup>2</sup>	MAWP TT: 240 Psig @ 500 °F
V-103	Fuel Gas Scrubber	Vertical	10" OD x 24" OAL	MAWP: 125 Psig @ 120 °F
V-105	3-Phase Separator	Vertical	42" OD x 96" S/S	MAWP: 150 Psig @ 350 °F
V-107	Secondary Separator	Vertical	42" OD x 96" S/S	MAWP: 150 Psig @ 350 °F
V-108	NGL Blowcase	Vertical	36" OD x 96" S/S	MAWP: 1440 Psig @ 130 °F

*Note: The above equipment description and design data were from the time of construction, the equipment now "as is where is conditions" and may vary in capacity listed above.*

**Reference Documents:**

#	Doc No	Description
1.	23898-099 rev0	Project Description and Overview
2.	23898-101 rev0	P&ID
3.	23898-199 rev0	P&ID Legends
4.	23898-201 rev0	Skid GAD

Name Plate conditions:

#	Description	Unit	Value
1	Capacity	BPD	2,000
2	Inlet Pressure	Psia	75
3	Inlet Temperature	°F	120
4	Inlet RVP	Psia	17.7
5	Outlet Pressure	Psia	60
6	Outlet Temperature	°F	130
7	Outlet spec	Psia	9
8	Year Built		2012

PLOT DATE: May 16, 2012, kwalker THE INFORMATION CONTAINED HEREIN IS THE CONFIDENTIAL PROPERTY OF ENERFLEX ENERGY SYSTEMS, AND IS NOT FOR PUBLICATION, AND NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT AUTHORIZATION FROM ENERFLEX ENERGY SYSTEMS.

**PROJECT DESCRIPTION**

TWO (2) 2000 BPD STABILIZER STOCK PACKAGES

**CONSTRUCTION BY:**

ENERFLEX ENERGY SYSTEMS, INC.  
10815 TELGE ROAD  
HOUSTON, TEXAS, USA

**PROCESS DESCRIPTION**

ENERFLEX ENERGY SYSTEMS (EFX) SCOPE OF SUPPLY FOR THIS PROJECT IS TO FURNISH TWO (2) LIQUID STABILIZER PACKAGES. THE SYSTEM IS CAPABLE OF STABILIZING 2000 BPD OF LIQUID CONDENSATE FROM A REID VAPOR PRESSURE (RVP) OF 17.7 PSIA TO 9 PSIA BASED ON INLET CONDITIONS OF 75 PSIA AT 120°F AND OUTLET CONDITIONS OF 60 PSIA AT 130°F.

STABILIZATION IS ACCOMPLISHED THROUGH THE USE OF A LIQUID/LIQUID EXCHANGER, INDIRECT FIRED HEATER, 3-PHASE SEPARATOR, AMBIENT COOLER, SECONDARY 3-PHASE SEPARATOR, AND BLOWCASE. ALL CONTROLS ARE PNEUMATIC.

**EQUIPMENT LIST**

TAG NO	DESCRIPTION	P&ID
E-101	LIQUID/LIQUID EXCHANGER	23898-101 SHT. 1
E-106	OVERHEAD VAPOR CONDENSER	23898-101 SHT. 3
F-104	FUEL GAS FILTER	23898-101 SHT. 2
H-102	STABILIZER HEATER	23898-101 SHT. 2
HC-102	CONDENSATE HEATING COIL	23898-101 SHT. 2
V-103	FUEL GAS SCRUBBER	23898-101 SHT. 2
V-105	3 PHASE SEPARATOR	23898-101 SHT. 3
V-107	SECONDARY 3 PHASE SEPARATOR	23898-101 SHT. 3
V-108	BLOWCASE	23898-101 SHT. 3

**ELECTRICAL POWER REQUIREMENTS**

TAG NO.	DESCRIPTION	VOLTAGE	POWER
NONE			

**SYSTEM CHARGES, CONSUMABLES, ETC**

NONE

**GENERAL NOTES**

SITE ELEVATION:	AT SEA LEVEL
BAROMETRIC PRESSURE:	14.7 PSIA
AMBIENT TEMPERATURE:	100°F
	32°F
RELATIVE HUMIDITY:	N/A
WIND SPEED:	N/A
SKID LOCATION:	OUTDOORS
ELECTRICAL AREA CLASS:	N/A
DRY INSTRUMENT AIR:	80/135 PSIG, -40°F DEW PT
APPLICABLE CODES:	ASME B31.3
	ASME SEC. VIII
	ASME SEC VIII
	API-12K
	AISC
	ISA
SPECIAL MAT'L/ SPECS:	ENERFLEX STANDARD
	316 SS, 3/8"OD MIN
	316 SS
	ENERFLEX STANDARD
	NONE

**PROJECTS**

**RELEASED FOR FABRICATION**

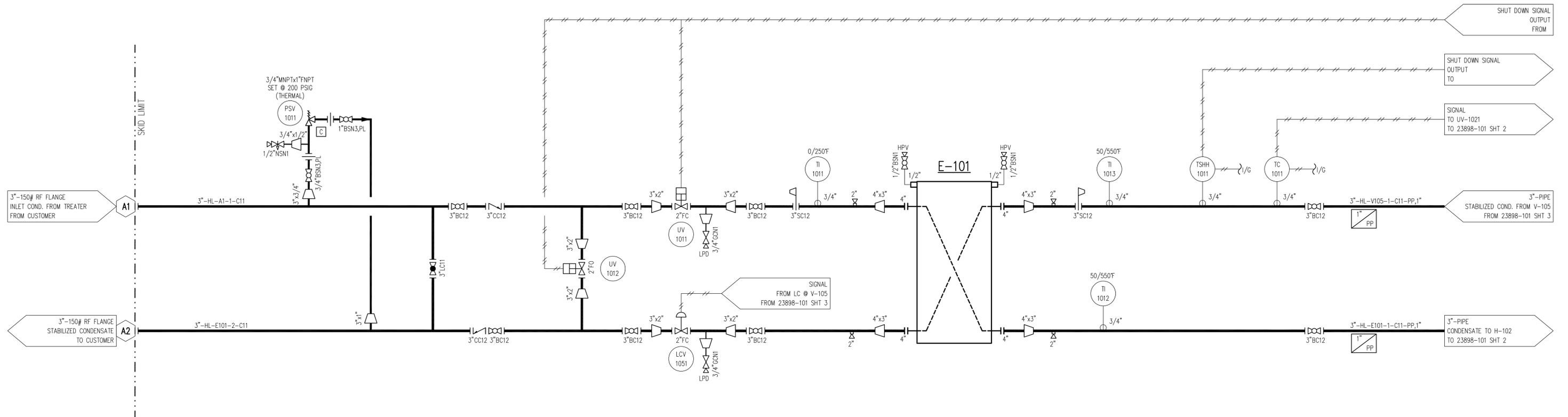
NAME K. Walker DATE 05/18/12

TOTAL PACKAGES REQ'D = 2

					DATE	02/29/12	SCALE	NONE	ENERFLEX COMPANY STANDARD	<b>ENERFLEX</b> Houston, Texas, USA	P & I DIAGRAM PROJECT DESCRIPTION AND OVERVIEW				
					DRAWN BY	K. Walker	CHECKED BY	D. Kamel				APPROVED BY	D. Kamel		
					PROJECT MANAGER	D. Kamel	PROJECT ENGINEER	D. Kamel							
					CUST PO										
0	RELEASED FOR FABRICATION	05/18/12	KW	DK											
REV	DESCRIPTION	DATE	BY	APR			STEP CODE		WORK ORDER	DWG NO	23898-099	SHT	1 OF 1	REV	0

E-101  
LIQUID/LIQUID EXCHANGER

MFG: TRANTER  
TYPE: PLATECOIL  
MODEL: GXD-042-H-5-PR-241  
SIZE:  
AREA: 1,132 FT<sup>2</sup>  
DUTY: 1,382,554 BTU/HR  
MAWP: 200 PSIG @ 350°F  
MDMT: -20°F @ 200 PSIG  
CA: N/A  
MAT'L: 316 SS  
OPERATING WEIGHT: 3,938 LBS  
EMPTY WEIGHT: 3,235 LBS



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PROJECTS			
23898			
23899			
TOTAL PACKAGES REQ'D = 2			

**RELEASED FOR FABRICATION**

NAME K. Walker DATE 05/18/12

DATE	02/29/12	SCALE	NONE
DRAWN BY	K. Walker	CHECKED BY	D. Kamel
PROJECT MANAGER	D. Kamel	PROJECT ENGINEER	D. Kamel
CUST PO			
REV	DESCRIPTION	DATE	BY
0	RELEASED FOR FABRICATION	05/18/12	KW DK

ENERFLEX COMPANY STANDARD

**ENERFLEX**  
Houston, Texas, USA

P & I DIAGRAM  
CONDENSATE STABILIZER  
2000 BPD

DWG NO 23898-101 SHT 1 OF 3 REV 0

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**HC-103  
COND. HEATING COIL**

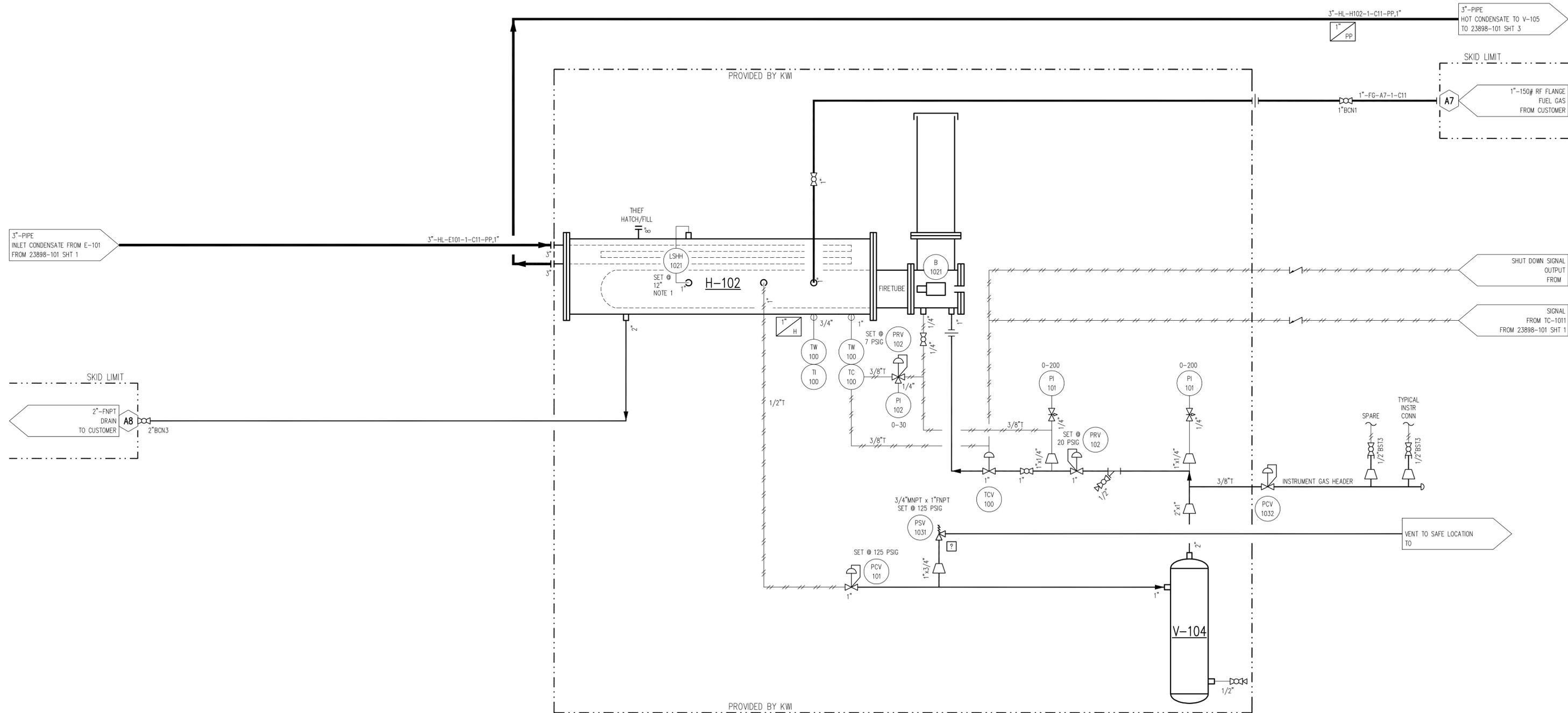
MFG: KWI  
SIZE: 3" 8 PASS  
AREA: 117 FT<sup>2</sup>  
MAT'L: SA-1063B  
WEIGHT: 1,600 LBS

**H-102  
STABILIZER HEATER**

MFG: KWI  
DUTY: 1.5 MM BTU/HR  
TYPE: FIRED TUBE  
SIZE: 48" OD x 210" F/F  
FIREBOX AREA: 67.02 FT<sup>2</sup>  
MAWP SS: 0 PSIG @ 350F  
MDMT SS: -20F @ 0 PSIG  
MAWP TS: 240 PSIG @ 500F  
MDMT TS: -20F @ 240 PSIG  
CA: 1/16"  
MAT'L: CS  
OPERATING CAPACITY: 1,275 GAL (W/O COIL)  
EMPTY WEIGHT: 4,500 LBS

**V-104  
FUEL GAS SCRUBBER**

MFG: KWI  
SIZE: 10" OD x 24" OAL  
MAWP: 125 PSIG @ 120F  
MDMT: -20F @ 125 PSIG  
CA: 1/16"  
MAT'L: CS  
EMPTY WEIGHT: TBD LBS



**PROJECTS**

23898			
23899			
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NAME *K. Walker* DATE 05/18/12

**NOTES:**

1. PROVIDED BY EFX.

DATE	02/29/12	SCALE	D.Kamel
DRAWN BY	K.Walker	CHECKED BY	D.Kamel
PROJECT MANAGER	D.Kamel	PROJECT ENGINEER	D.Kamel
CUST PO			
REV	DESCRIPTION	DATE	BY
0	RELEASED FOR FABRICATION	05/18/12	KW DK

ENERFLEX  
COMPANY  
STANDARD

**ENERFLEX**  
Houston, Texas,  
USA

P & I DIAGRAM  
CONDENSATE STABILIZER  
2000 BPD

DWG NO	23898-101	SHT	2 OF 3	REV	0
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**V-105**  
**3 PHASE SEPARATOR**

MFG: RVS  
SIZE: 42" OD x 96" S/S  
MAWP: 150 PSIG @ 350°F  
MDMT: -20°F @ 150 PSIG  
CA: 1/16"  
MAT'L: CS  
ELEMENTS: SS MESH PAD  
EMPTY WEIGHT: 2,100 LBS

**E-106**  
**OVERHEAD VAPOR CONDENSER**

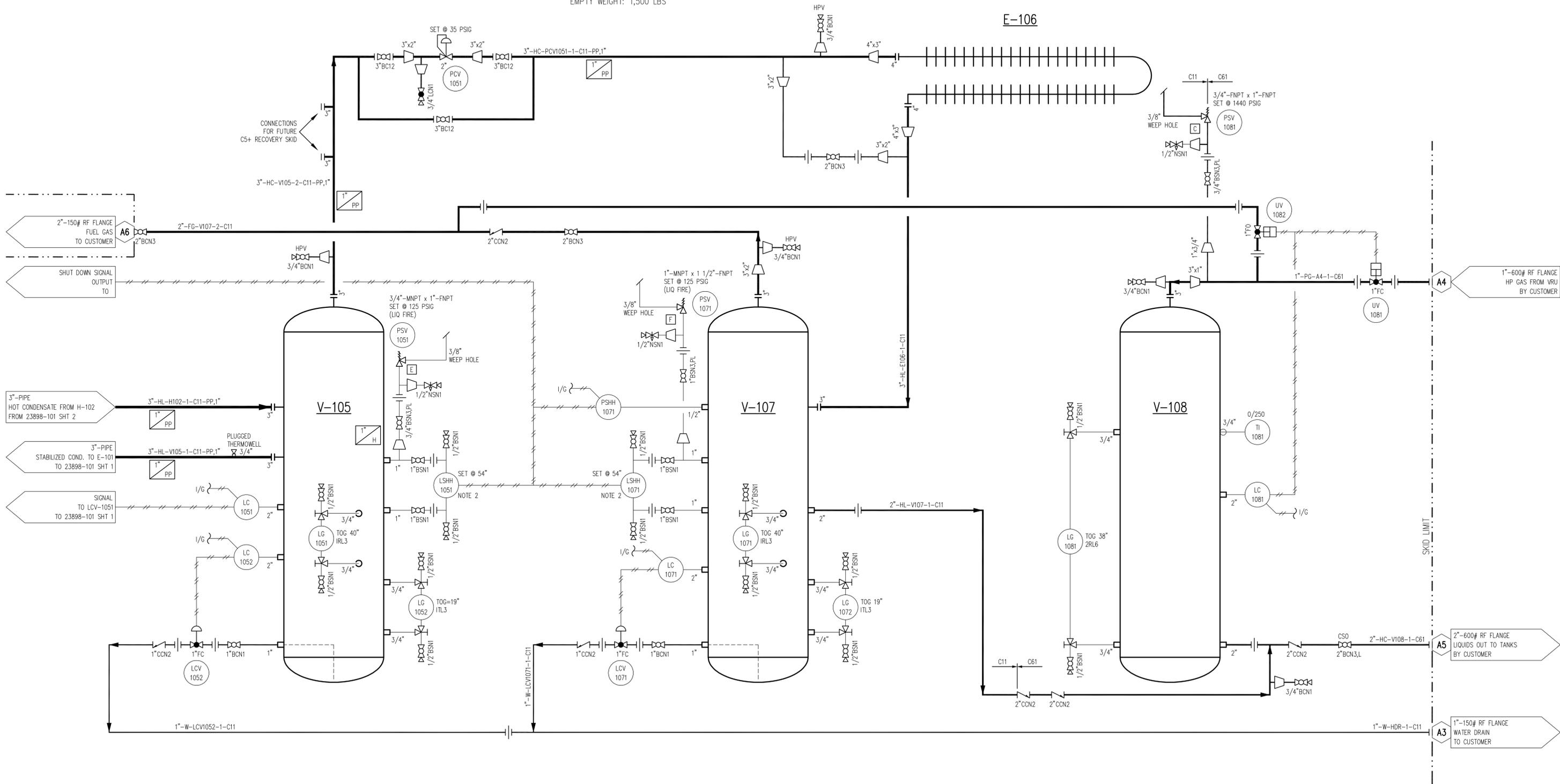
MFG: TEX FIN  
TYPE: PIPECOIL  
MODEL: 8-20-NAT  
SIZE: (4) PASS - (10) TUBES / PASS  
AREA: 4,423 FT<sup>2</sup>  
DUTY: 109,075 BTU/HR  
MAWP: 150 PSIG @ 300°F  
MDMT: -20°F @ 150 PSIG  
CA: 1/16"  
MAT'L: CS  
OPERATING WEIGHT: TBD LBS  
EMPTY WEIGHT: 1,500 LBS

**V-107**  
**SECONDARY SEPARATOR**

MFG: RVS  
SIZE: 42" OD x 96" S/S  
MAWP: 150 PSIG @ 350°F  
MDMT: -20°F @ 150 PSIG  
CA: 1/16"  
MAT'L: CS  
ELEMENTS: SS MESH PAD  
EMPTY WEIGHT: 2,100 LBS

**V-108**  
**NGL BLOWCASE**

MFG: RVS  
SIZE: 36" OD x 96" S/S  
MAWP: 1,440 PSIG @ 130°F  
MDMT: -20°F @ 1,440 PSIG  
CA: 1/16"  
MAT'L: CS  
EMPTY WEIGHT: 6,300 LBS



**PROJECTS**

23898			
23899			
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**NOTES:**

1. VALVE MUST BE CAR SEALED OPEN TO PREVENT BLOCKED FLOW PSV CONDITIONS.
2. INSTALL IN INVERTED ORIENTATION FOR HIGH SHUTDOWN TO KILL AIR SUPPLY TO SYSTEM.

DATE	02/29/12	SCALE	NONE
DRAWN BY	K. Walker	CHECKED BY	D. Kamel
PROJECT MANAGER	D. Kamel	APPROVED BY	D. Kamel
PROJECT ENGINEER	D. Kamel		
CUST PO			
REV	0	DESCRIPTION	RELEASED FOR FABRICATION
		DATE	05/18/12
		BY	KW
		APR	DK

STEP CODE		WORK ORDER	
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ENERFLEX  
COMPANY  
STANDARD

**ENERFLEX**  
Houston, Texas,  
USA

P & I DIAGRAM  
CONDENSATE STABILIZER  
2000 BPD

DWG NO 23898-101

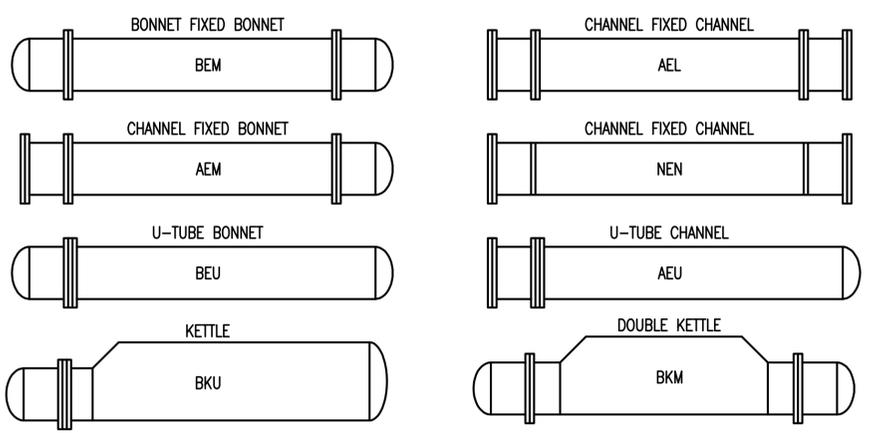
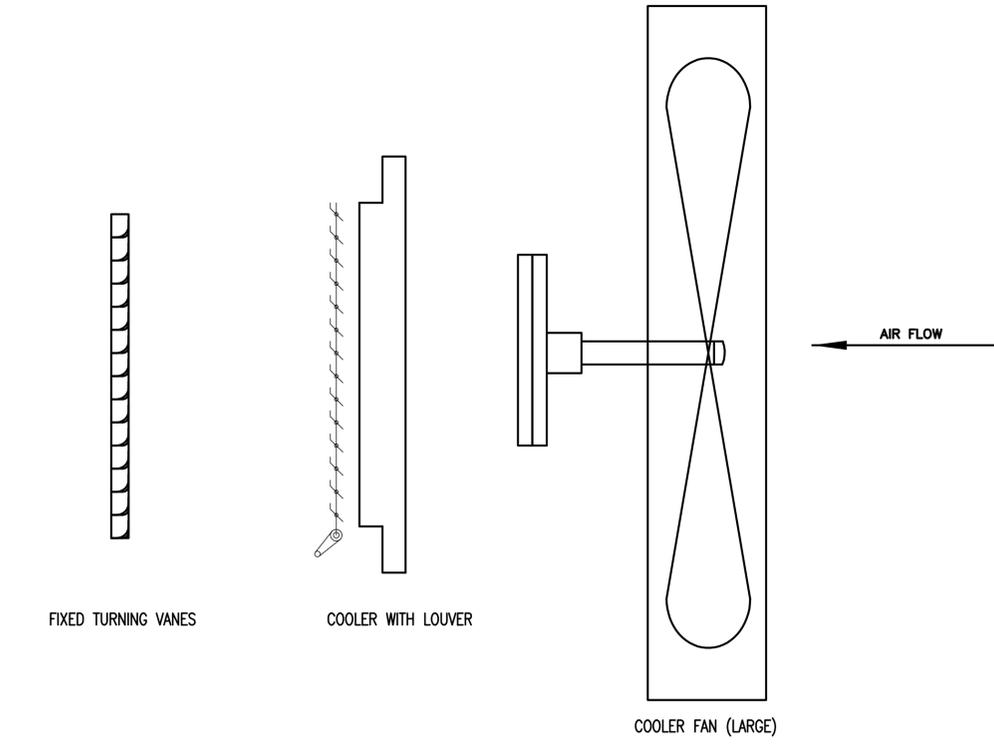
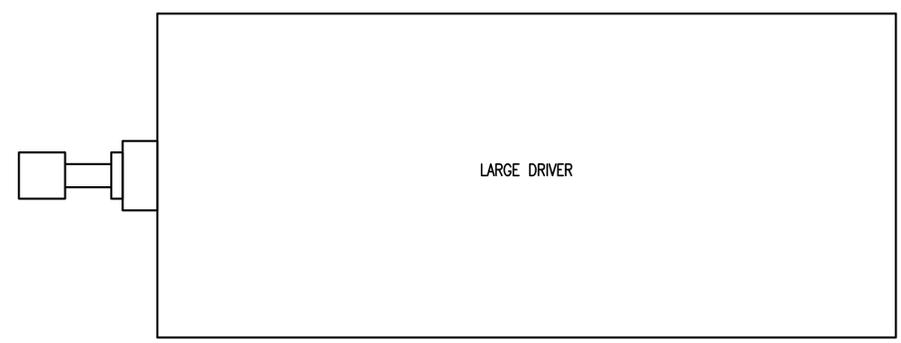
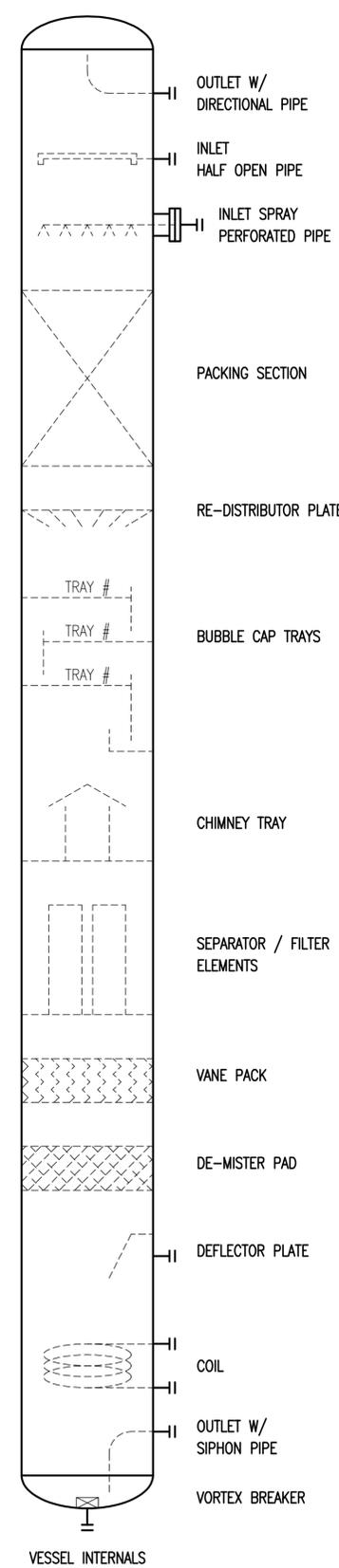
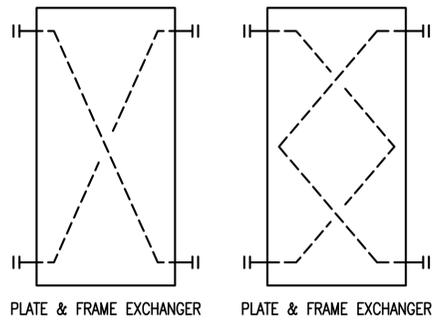
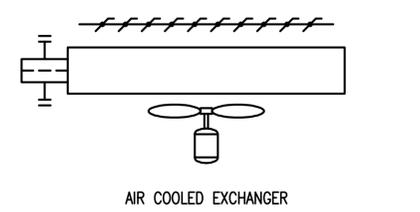
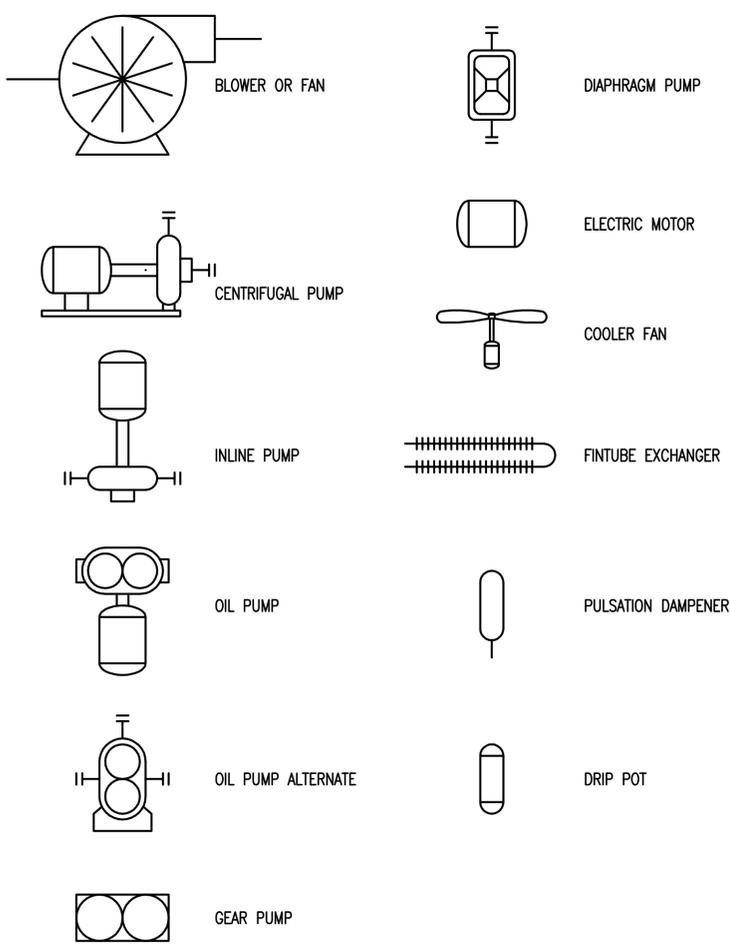
SHT 3 OF 3 REV 0



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**ABBREVIATIONS**

AMB	AMBIENT	M2	SQUARE METERS
ATM	ATMOSPHERE	M3	CUBIC METERS
BW	BUTT WELD	MAX	MAXIMUM
BOP	BOTTOM OF PIPE	MAWP	MAXIMUM ALLOWABLE WORKING PRESSURE
CA	CORROSION ALLOWANCE	MCC	MOTOR CONTROL CENTER
CC	CORROSION COUPON	MDMT	MINIMUM DESIGN METAL TEMPERATURE
CS	CARBON STEEL	MIN	MINIMUM
CSC	CAR SEAL CLOSED	MM	MILLIMETER
CSO	CAR SEAL OPEN	NB	NATIONAL BOARD
CUST	CUSTOMER	NC	NORMALLY CLOSED
DB	DEADBAND	NULL	NORMAL LIQUID LEVEL
Δ	DELTA (DIFFERENTIAL)	NO	NORMALLY OPEN
DBB	DOUBLE BLOCK & BLEED	NPT	NATIONAL PIPE THREAD
DEG.C	DEGREES CELSIUS	OAL	OVERALL LENGTH
DEG.F	DEGREES FARENHEIT	OD	OUTSIDE DIAMETER
DIR	DIRECT ACTING	PB	PUSH BUTTON
EL	ELEVATION	PL	PILOT LIGHT
ESD	EMERGENCY SHUTDOWN	PLC	PROGRAMMABLE LOGIC CONTROLLER
ESDV	EMERGENCY SHUTDOWN VALVE	PPD	PINTS PER DAY
FC	FAIL CLOSED	PSIA	POUNDS / SQUARE INCH ABSOLUTE
FF	FLAT FACED	PSID	POUNDS / SQUARE INCH DIFFERENTIAL
FL	FAIL LAST	PSIG	POUNDS / SQUARE INCH GAUGE
FLG	FLANGED	REV	REVERSE ACTING
FO	FAIL OPEN	RF	RAISED FACE
FOB	FLAT ON BOTTOM	RFLX	REFLEX GAUGE
FOT	FLAT ON TOP	RO	RESTRICTION ORIFICE
FT2	SQUARE FEET	RTD	RESISTANCE TEMPERATURE DEVICE
FT3	CUBIC FEET	RTJ	RING TYPE JOINT
FV	FULL VACUUM	SCFM	STANDARD CUBIC FEET PER MINUTE
FVCP	FIXED VOLUME CLEARANCE POCKET	SCR	SILICON CONTROLLED RECTIFIER
FX	FROST EXTENSION	S/F	SEAM TO FACE OF FLANGE
HI	HIGH	SO	SLIP ON
HLL	HIGH LIQUID LEVEL	SP	SETPOINT
HP	HIGH POINT	SPC	CALCULATED SETPOINT
HPV	HIGH POINT VENT	SS	SELECTOR SWITCH
HTR	HEATER	S/S	SEAM TO SEAM
ID	INSIDE DIAMETER	SVU	SUCTION VALVE UNLOADER
KGS	KILOGRAMS	SW	SOCKET WELD
KPA	KILOPASCAL ABSOLUTE	TC/K	THERMOCOUPLE / (TYPE)
KPAD	KILOPASCAL DIFFERENTIAL	T/L	TUBE LENGTH
KPAG	KILOPASCAL GAUGE	TS/TS	TUBESHEET TO TUBESHEET
KW	KILOWATTS	VB	VORTEX BREAKER
LBS	POUNDS	V/H	VENT HEADER
LC	LOCKED CLOSED	VTA	VENT TO ATMOSPHERE
LLL	LOW LIQUID LEVEL	VTH	VENT TO HEADER
LO	LOCKED OPEN	WCP	VARIABLE VOLUME CLEARANCE POCKET
LP	LOW POINT	W/	WITH
LPD	LOW POINT DRAIN	W/O	WITHOUT



PROJECTS			
23898			
23899			
TOTAL PACKAGES REQ'D = 2			

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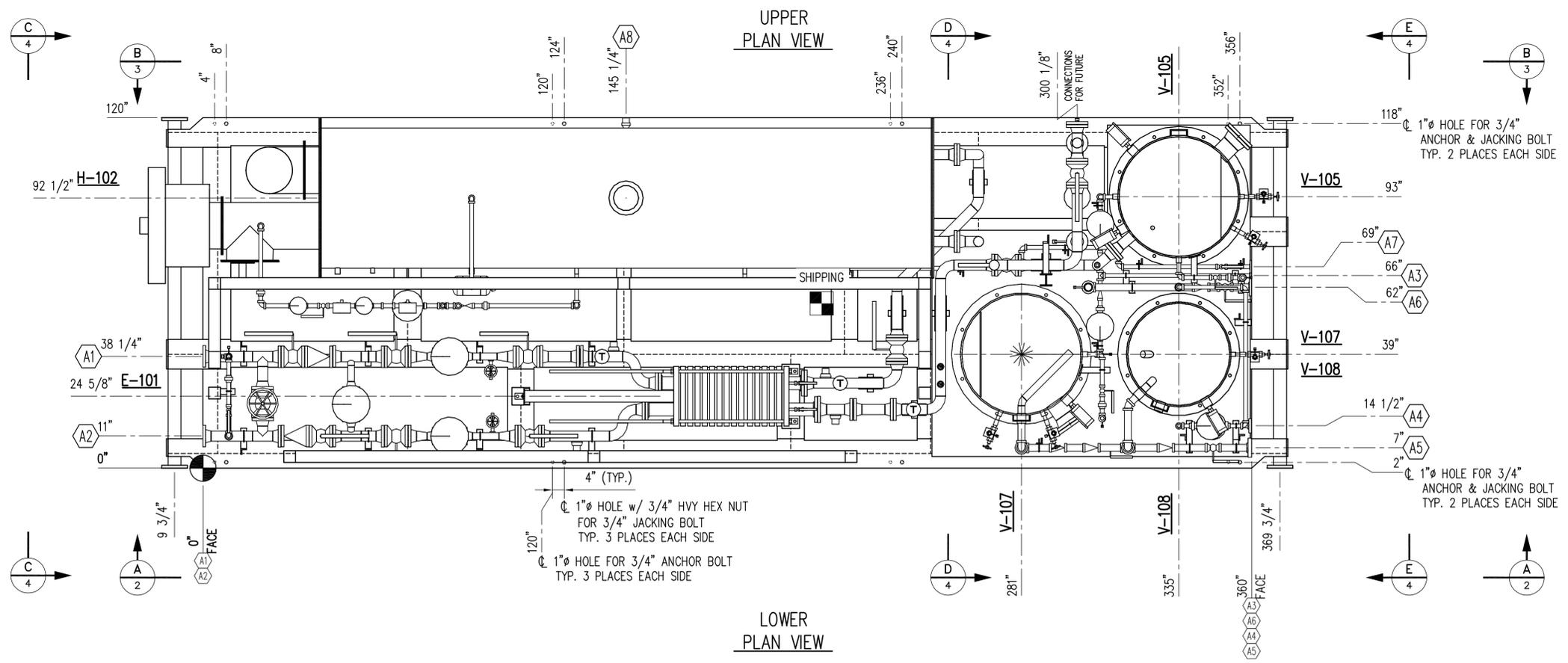
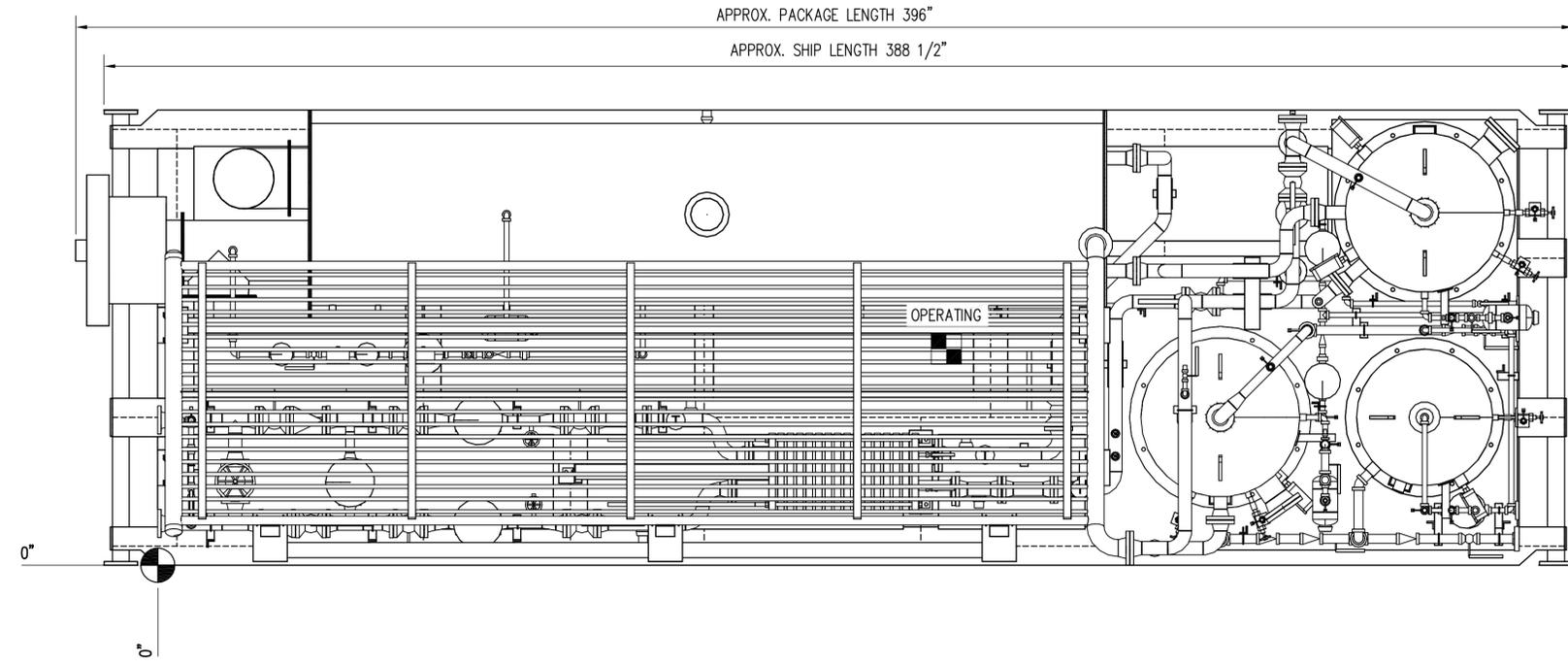
NAME K. Walker DATE 05/18/12

				DATE	02/29/12	SCALE	NONE	ENERFLEX COMPANY STANDARD		<b>ENERFLEX</b> Houston, Texas, USA		P & I DIAGRAM LEGEND & SYMBOLS			
				DRAWN BY	K. Walker	CHECKED BY	D. Kamel							APPROVED BY	D. Kamel
				PROJECT MANAGER	D. Kamel	PROJECT ENGINEER	D. Kamel								
				CUST PO											
0	RELEASED FOR FABRICATION	05/18/12	KW	DK				STEP CODE	WORK ORDER	DWG NO	23898-199	SHT	2 OF 2	REV	0

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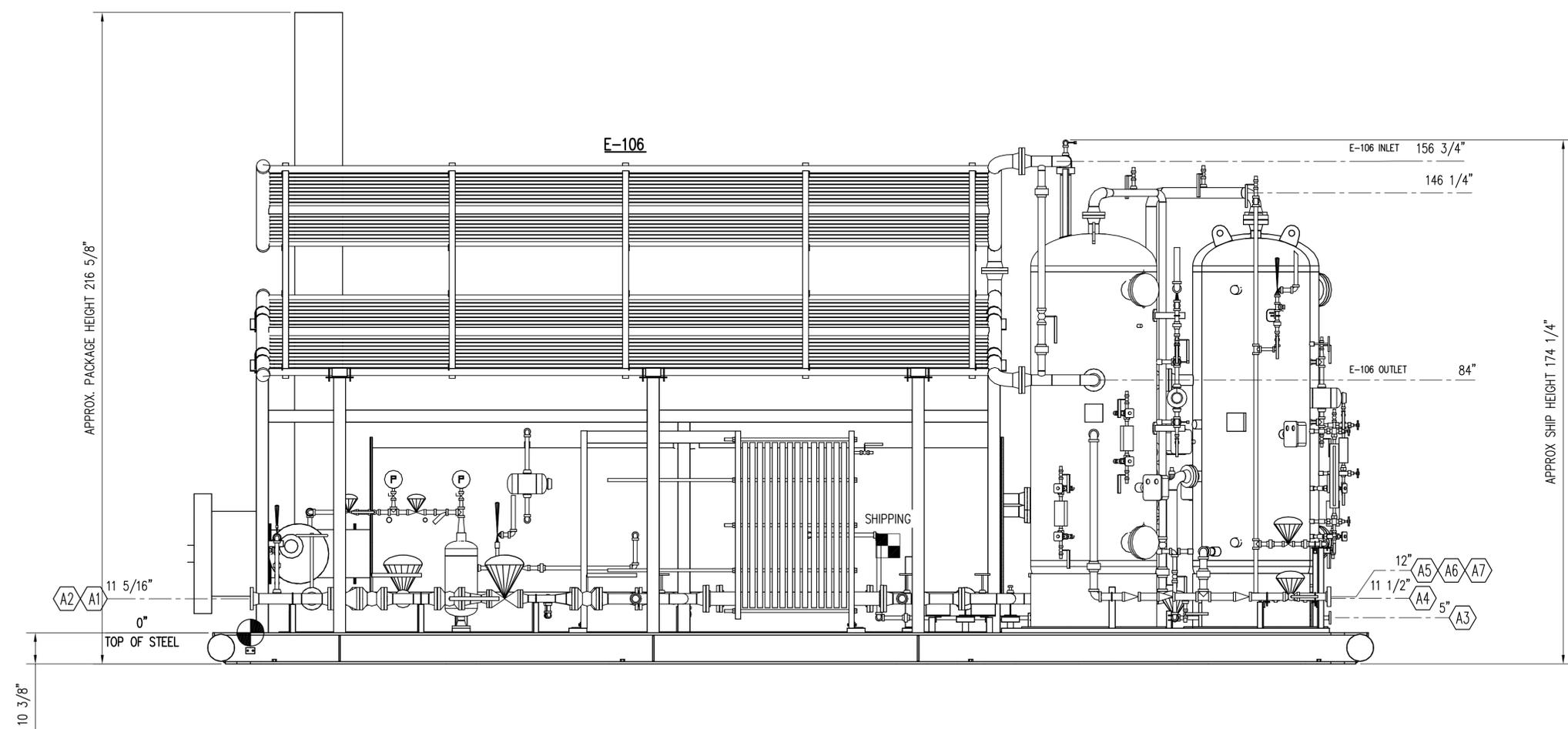
CUSTOMER CONNECTION SCHEDULE		
MARK	DESCRIPTION	SERVICE
A1	3" 150# RF	RICH CONDENSATE IN
A2	3" 150# RF	STABILIZED CONDENSATE OUT
A3	1" 150# RF	LIQUID DRAIN
A4	1" 600# RF	HP FUEL GAS TO BLOWCASE
A5	2" 600# RF	HP PRODUCT TO CUSTOMER
A6	2" 150# RF	LP FUEL GAS TO CUSTOMER
A7	1" 150# RF	LP FUEL GAS TO HEATER
A8	2" NPT	HEATER DRAIN

- GENERAL NOTES:**
- UNIT TO BE INSTALLED BY CUSTOMER ON LEVEL CONCRETE BASE WITH 2" GROUT UNDER ALL FULL DEPTH MEMBERS c/w DRAINAGE AND GROUNDING PROVISION.
  - APPROXIMATE SHIPPING WEIGHT OF PACKAGE: 53,666 lbs.
  - APPROXIMATE OPERATING WEIGHT OF PACKAGE: 51579 lbs.
  - INDICATES CUSTOMER CONNECTION, SEE SCHEDULE.
  - INDICATES CUSTOMER CONNECTION DIMENSIONS TO BE HELD TO ±1/4" IN EACH DIRECTION.
  - INDICATES REF. POINT. ALL ORDINATE DIMENSIONS TAKEN FROM THIS POINT.
  - INDICATES CLEAR AREA REQUIRED TO SERVICE EQUIPMENT.
  - "FACE" INDICATES FACE OF CUSTOMER CONNECTION, SEE SCHEDULE.
  - CUSTOMER PIPING IS TO BE FULLY AND TOTALLY SELF-SUPPORTING.
  - PIPING TO BE PER ANSI B31.3 LATEST EDITION.
  - INDICATES APPROXIMATE CENTER OF GRAVITY.
- |                     |                     |
|---------------------|---------------------|
| SHIPPING            | OPERATING           |
| "X" = 212.4"        | "X" = 208.5"        |
| "Y" = 56.4"         | "Y" = 57"           |
| (ELEV.) "Z" = 28.9" | (ELEV.) "Z" = 31.6" |
- SEE XXXXX-221 Sht. 1 FOR ANCHOR AND JACKING BOLT LOCATIONS.



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 FLOW DATE: May 29, 2012, cdenng

**NOTES:**  
 1. SEE SHT. 1 FOR GENERAL NOTES AND CUSTOMER CONNECTION SCHEDULE.



VIEW A-A

**RELEASED FOR FABRICATION**  
 NAME E. Deng DATE 5/29/12

PROJECTS			
23898	-	-	-
23899	-	-	-
-	-	-	-
-	-	-	-
TOTAL PACKAGES REQD = 2			

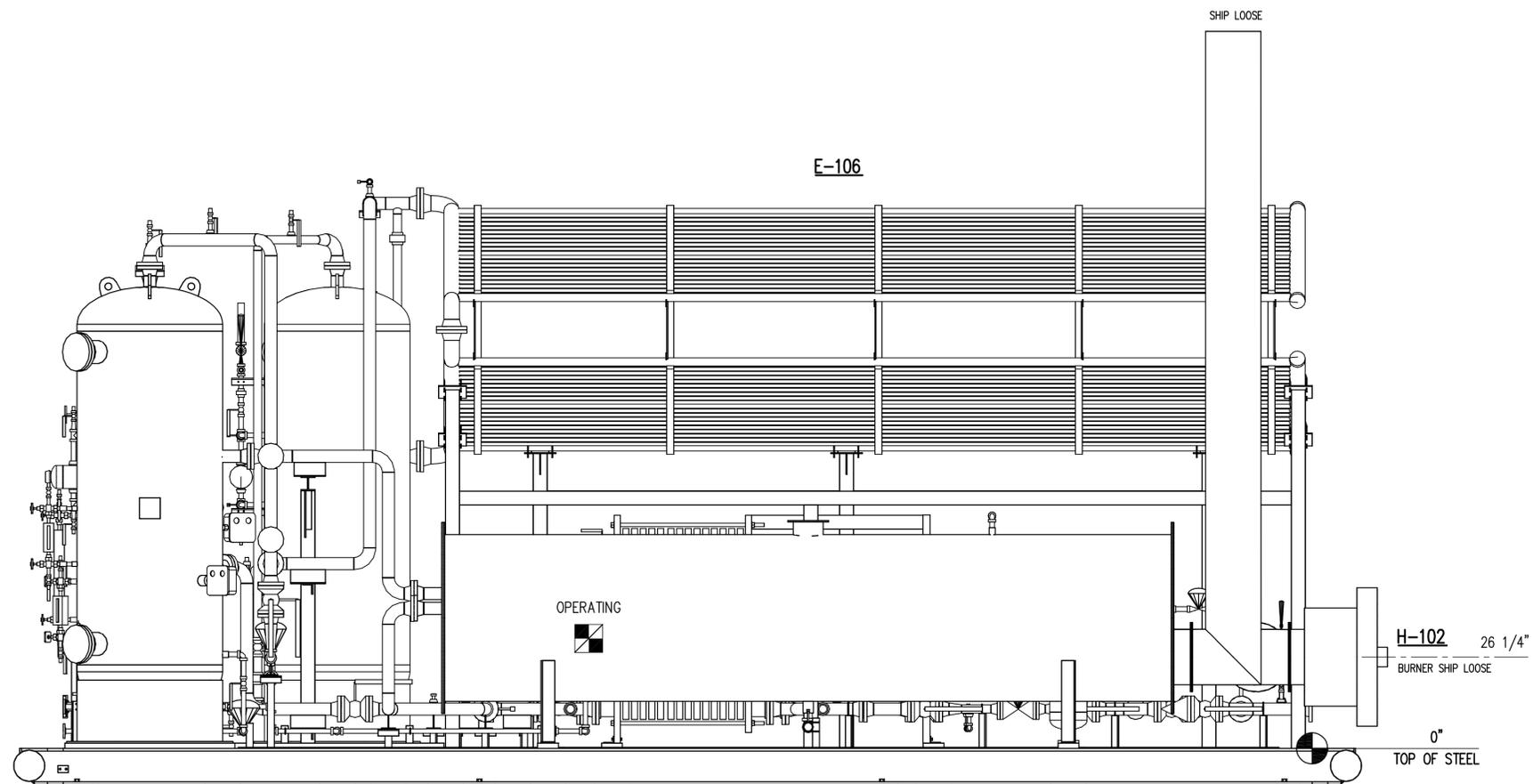
DATE	SCALE	ENERFLEX COMPANY STANDARD	
5/29/12	1/2"=1'-0"	ENERFLEX Houston, Texas	
DRAWN BY	CHECKED BY	APPROVED BY	GENERAL ARRANGEMENT CONDENSATE STABILIZER 2000 BPD
C. Deng	B. Kamel	B. Kamel	
CUST PO	DATE	BY	APR
	5/29/12	C. Deng	B. Kamel
REV	DESCRIPTION	DATE	BY
0	FOR FABRICATION	5/29/12	C. Deng

DWG NO	SHT	REV
23898-201	2 of 5	0

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 PLOT DATE: May 29, 2012, cdenng

**NOTES:**

- SEE SHT. 1 FOR GENERAL NOTES AND CUSTOMER CONNECTION SCHEDULE.



VIEW B-B

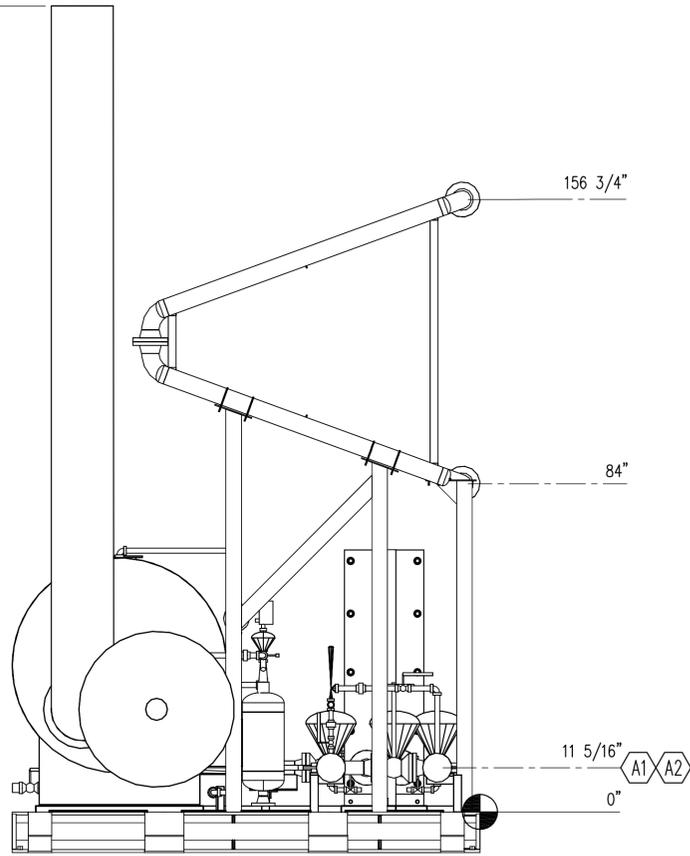
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PROJECTS			
23898	-	-	-
23899	-	-	-
-	-	-	-
-	-	-	-
TOTAL PACKAGES REQD = 2			

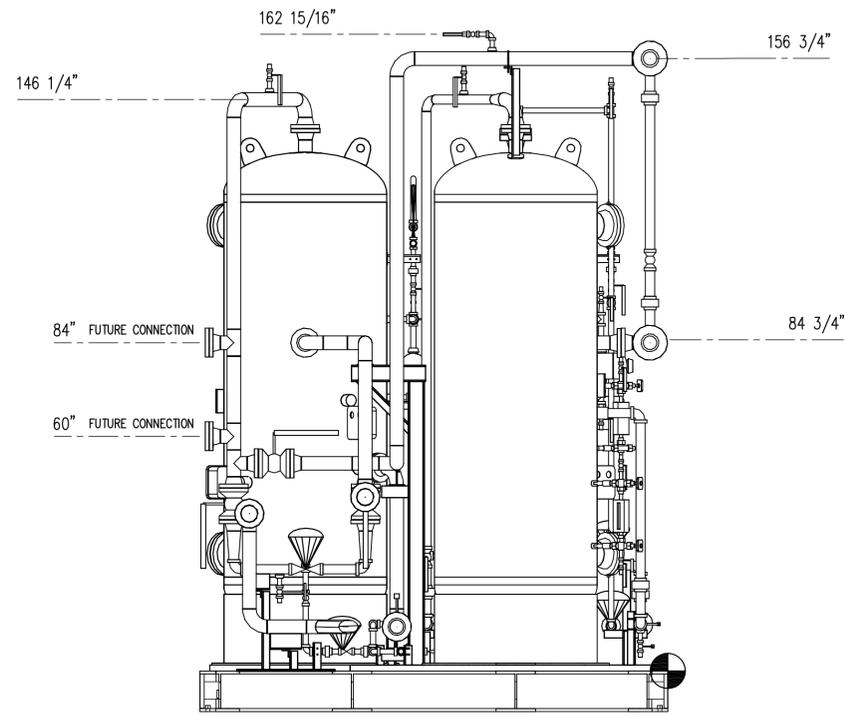
	DATE	SCALE	ENERFLEX COMPANY STANDARD	ENERFLEX Houston, Texas	GENERAL ARRANGEMENT CONDENSATE STABILIZER 2000 BPD
	DRAWN BY <i>C. Deng</i>	1/2"=1'-0"	CHECKED BY <i>B. Kamel</i>		
	CUST PO		APPROVED BY <i>B. Kamel</i>		
0	FOR FABRICATION	5/29/12	C.D.	S.K.	DWG NO 23898-201
REV	DESCRIPTION	DATE	BY	APR	SHT 3 of 5 REV 0

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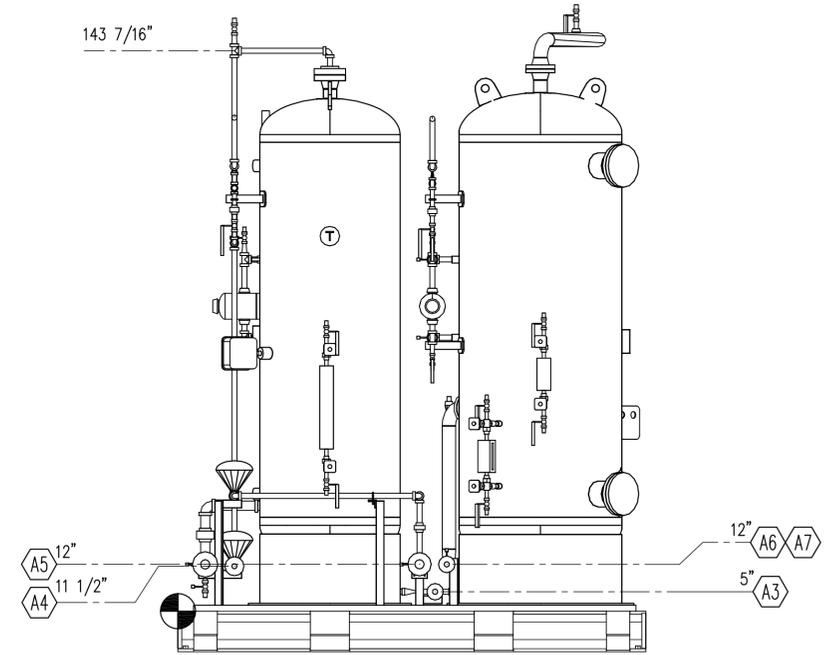
APPROX. 206 1/4"



VIEW C-C



VIEW D-D



VIEW E-E

**RELEASED FOR FABRICATION**  
 NAME E. Deng DATE 5/29/12

PROJECTS			
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23899	-	-	-
-	-	-	-
-	-	-	-
TOTAL PACKAGES REQD = 2			

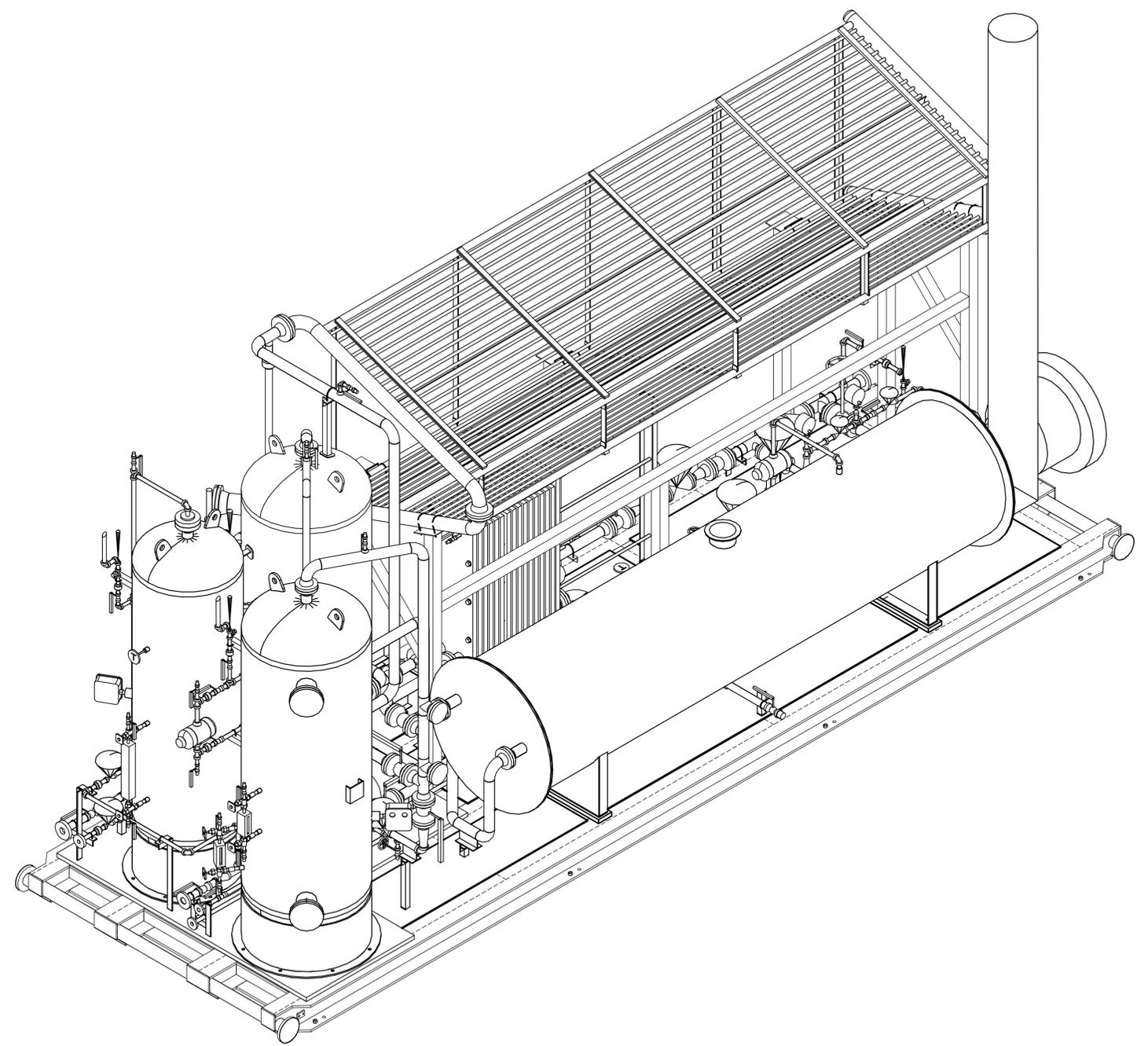
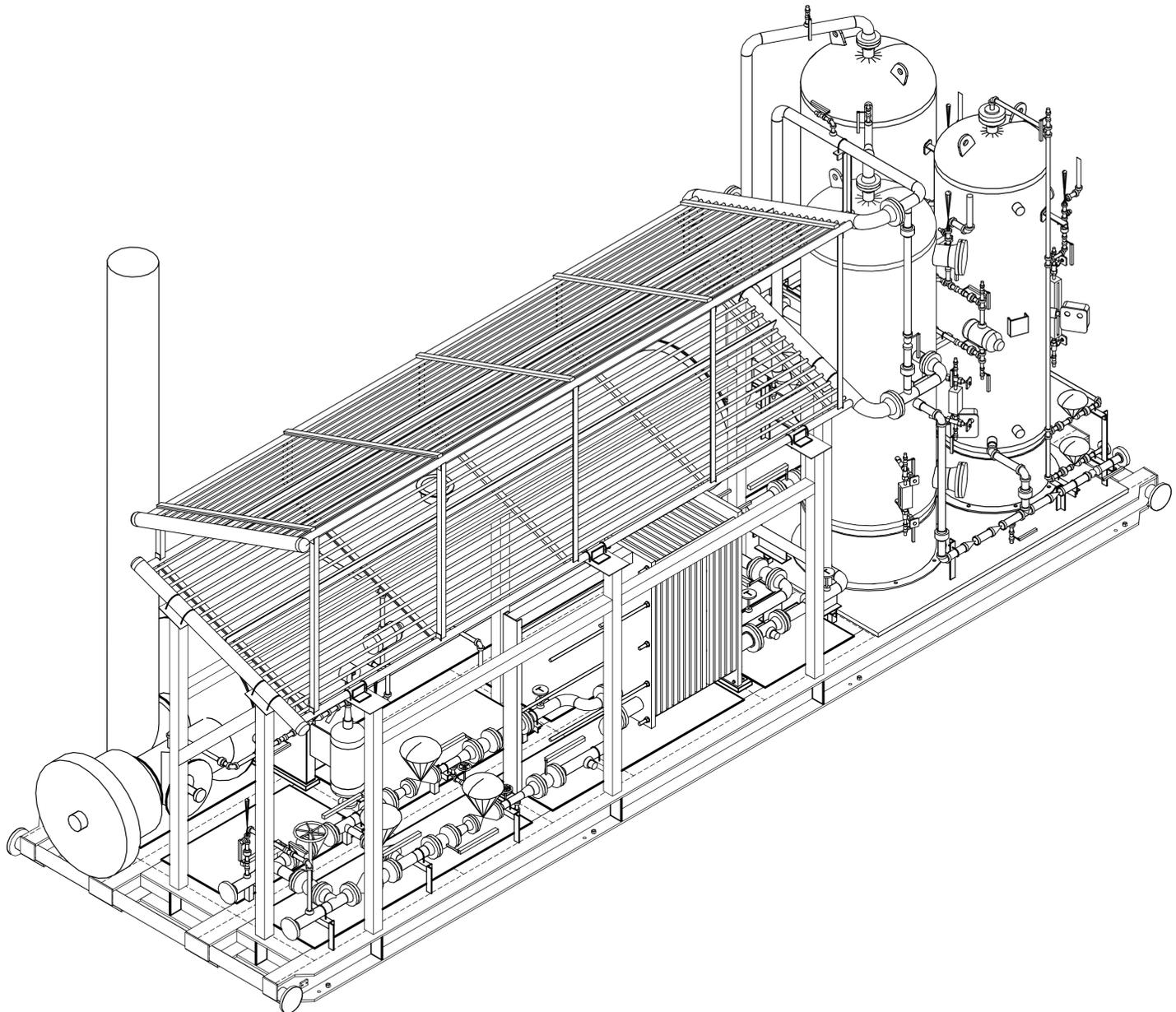
REV	DESCRIPTION	DATE	BY	APR	STEP CODE
0	FOR FABRICATION	5/29/12	C.D.	S.K.	

DATE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
	1/2"=1'-0"	C. Deng	B. Kamel	B. Kamel
CUST PO				

<b>ENERFLEX</b> Houston, Texas	GENERAL ARRANGEMENT CONDENSATE STABILIZER 2000 BPD	DWG NO 23898-201	SHT 4 of 5	REV 0
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ENERFLEX  
COMPANY  
STANDARD

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 PLOT DATE: May 29, 2012, c.deng



**RELEASED FOR FABRICATION**  
 NAME E. Deng DATE 5/29/12

PROJECTS			
23898	-	-	-
23899	-	-	-
-	-	-	-
-	-	-	-
TOTAL PACKAGES REQD = 2			

DATE	SCALE	ENERFLEX COMPANY STANDARD			<b>ENERFLEX</b> Houston, Texas		GENERAL ARRANGEMENT CONDENSATE STABILIZER 2000 BPD		
DRAWN BY <i>C. Deng</i>	CHECKED BY <i>B. Kamel</i>	APPROVED BY <i>B. Kamel</i>		DWG NO					
CUST PO	STEP CODE	0	FOR FABRICATION	5/29/12	<i>C. Deng</i>	<i>B. Kamel</i>			
REV	DESCRIPTION	DATE	BY	APR					