

Tampa Electric Company - Big Bend Station
Revisions to Initial Compliance Test Requirements
Air Construction Permit No. 0570039-070-AC
Facility ID No. 0570039, E.U. ID No. -051

Professional Engineer Certification

1. Professional Engineer Name: Robert A. Velasco, P.E.

Registration Number: 57190

2. Professional Engineer Address...

Organization/Firm: Tampa Electric Company

Street Address: P.O. Box 111

City: Tampa

State: FL

Zip Code: 33601

3. Professional Engineer Telephone Numbers...

Telephone: (813) 228 - 4232

Fax: (813) 228 - 1308

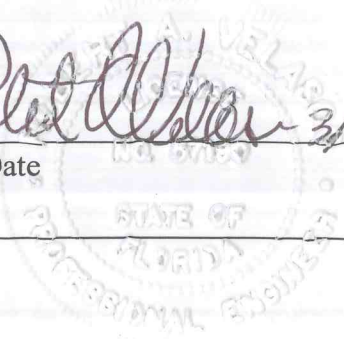
4. Professional Engineer E-mail Address: ravelasco@tecoenergy.com

5. Professional Engineer Statement:

- (1) Engineering information included herein is believed to be correct to the best of the Engineer's knowledge;
- (2) Engineering information is based on acceptable engineering techniques and professional standards;
- (3) Engineering opinions and information included herein provides reasonable assurance of meeting the requirements of Rule 62-4 F.A.C.;
- (4) Engineer is not responsible for subsequent deviations made by others without the written consent of the Engineer; and
- (5) Certification does not include work such as vendor drawings prepared by others not under the direct supervision of the Engineer.


Signature/Date

(seal)

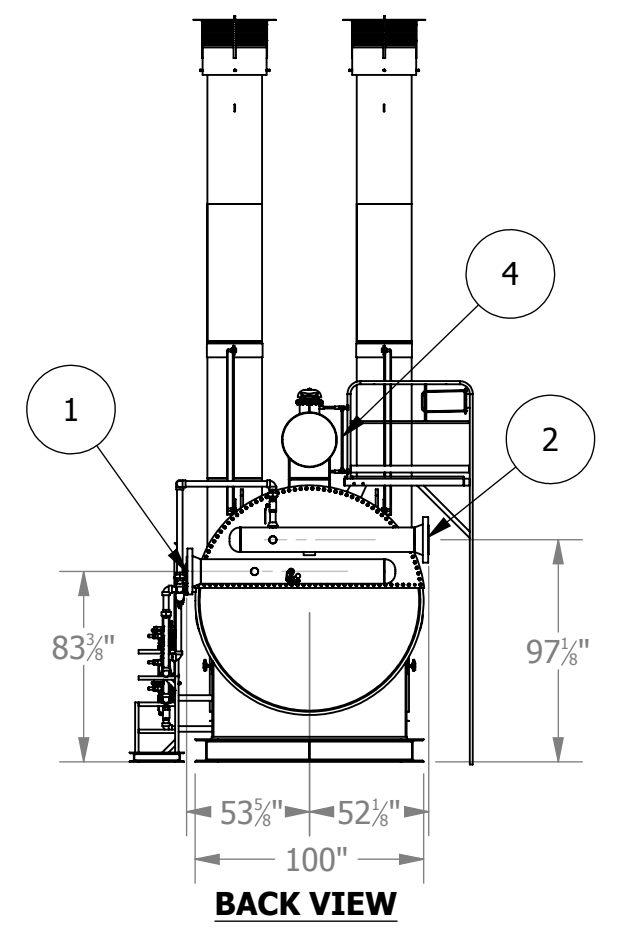
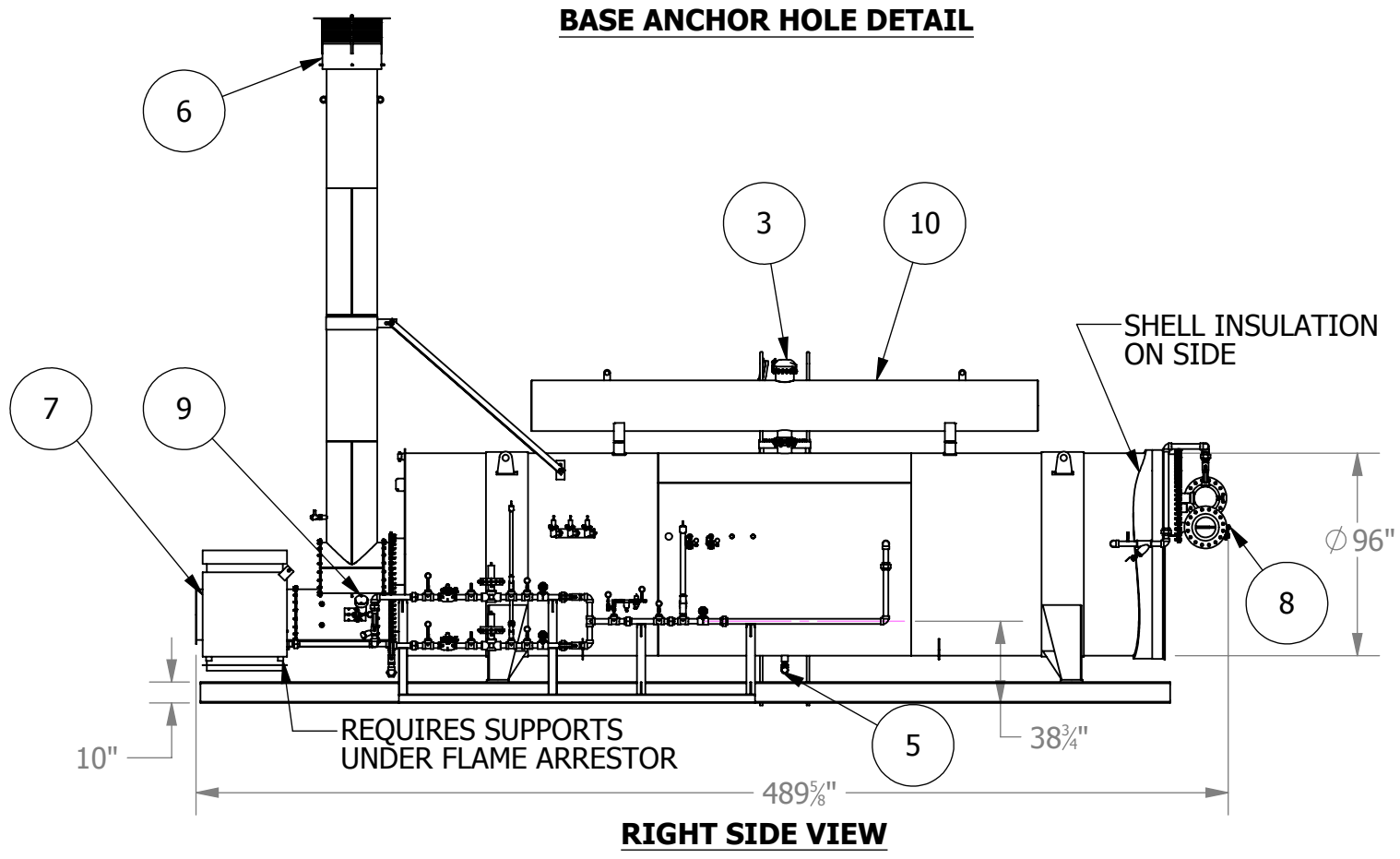
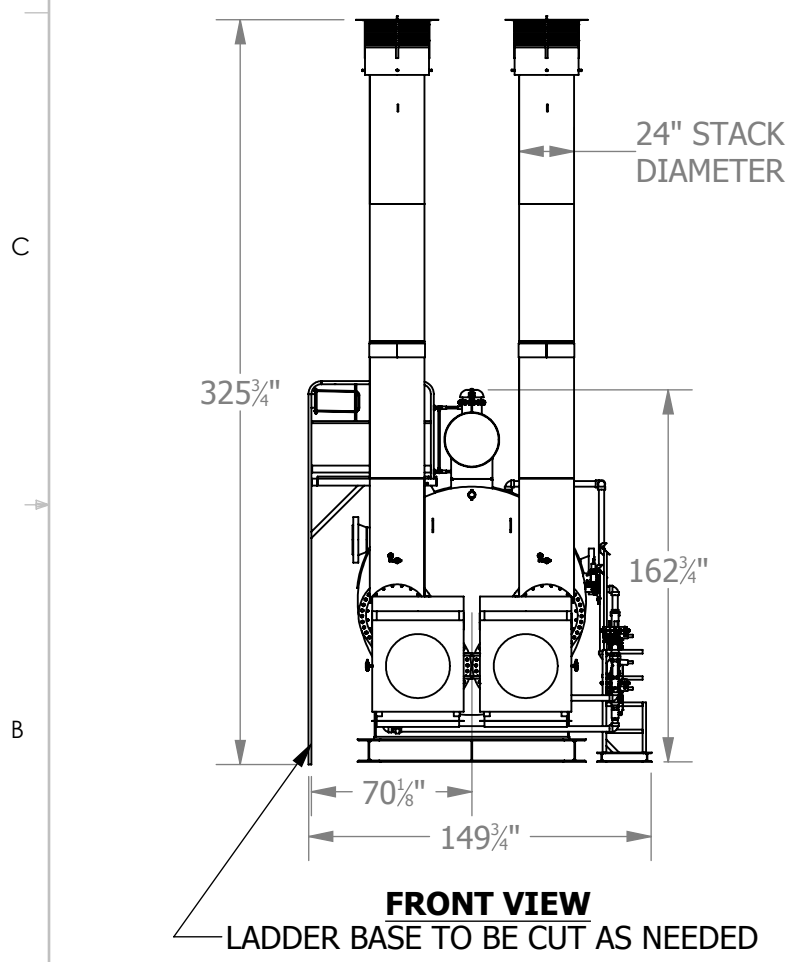
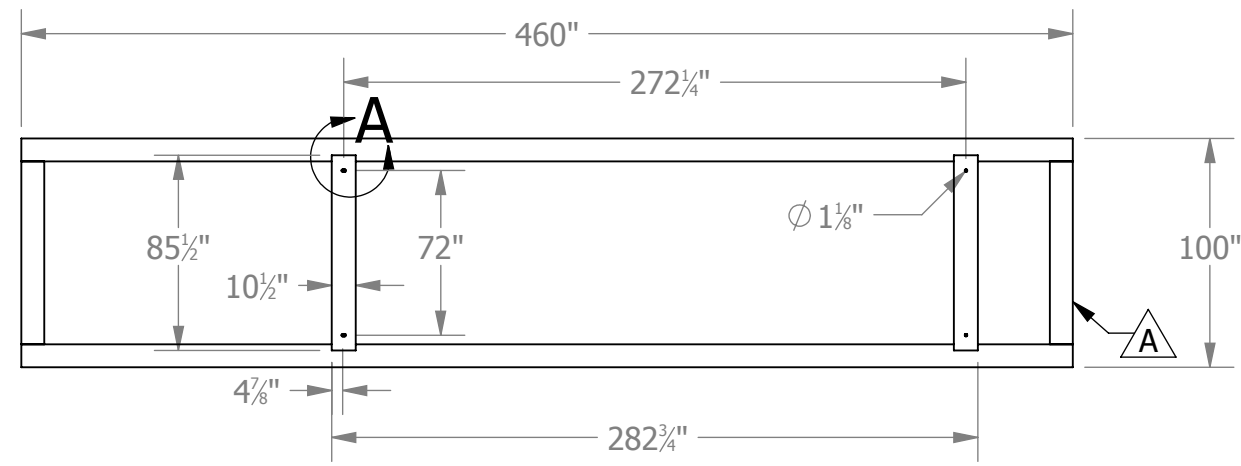
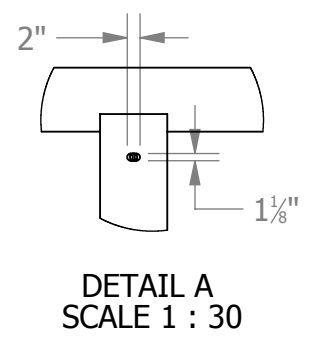


Attachment A

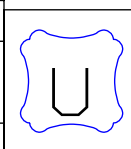
TERI 7500 Gas Heater Drawing

8 7 6 5 4 3 2 1

REVISIONS		
REV.	DESCRIPTION	DATE
A	ADD SKID OPTION	2/5/2014
B	CHANGED HEATER WEIGHTS TO SHOW SKID	2/13/2014



COIL SPECIFICATIONS	
M.A.W.P.:	1350 PSI @ 200° F
MDMT:	-20° F @ 1350 PSI
LIMITED BY:	DESIGN
FINAL HYDROSTATIC TEST:	2025 PSI BASED ON 1.5 X M.A.W.P.--CHART TEST FOR 4 HRS. CHART TO SHOW PRESSURE AND AMBIENT TEMPERATURE.
HEAT TREAT:	NOT REQUIRED
CORROSION ALLOWANCE:	NONE
RADIOGRAPHY:	FULL 100%
NATIONAL BOARD NUMBER REQUIRED:	YES
COIL SURFACE AREA:	820.6 SQUARE FEET
NUMBER OF PATHS AND PASSES:	6 PATH--4 PASS



COIL TO BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASME PRESSURE VESSEL CODE: SECTION VIII DIVISION 1, AND IS TO BE SO STAMPED. INSPECTED BY NATIONAL BOARD COMMISSIONED INSPECTOR.

NOTES	
HEATER DRY WEIGHT IS APPROXIMATELY 42,330 LBS	
HEATER WET WEIHT IS APPROXIMATELY 107,780 LBS	
BATH MEDIA VOLUME IS APPROXIMATELY 7,851 GALLONS	

1	COIL INLET--10" 600# RF FLANGE
2	COIL OUTLET--10" 600# RF FLANGE
3	FILL HATCH-- 8"
4	LEVEL GAUGE
5	2" DRAIN VALVE
6	EXHAUST STACK RAIN CAP WITH BIRD SCREEN
7	FLAME ARRESTOR
8	TEMPERATURE CONTROLLER
9	PILOT
10	EXPANSION TANK

SHIP LOOSE ITEMS:
LADDER, PLATFORM,
STACK, CAP, AND VENTS

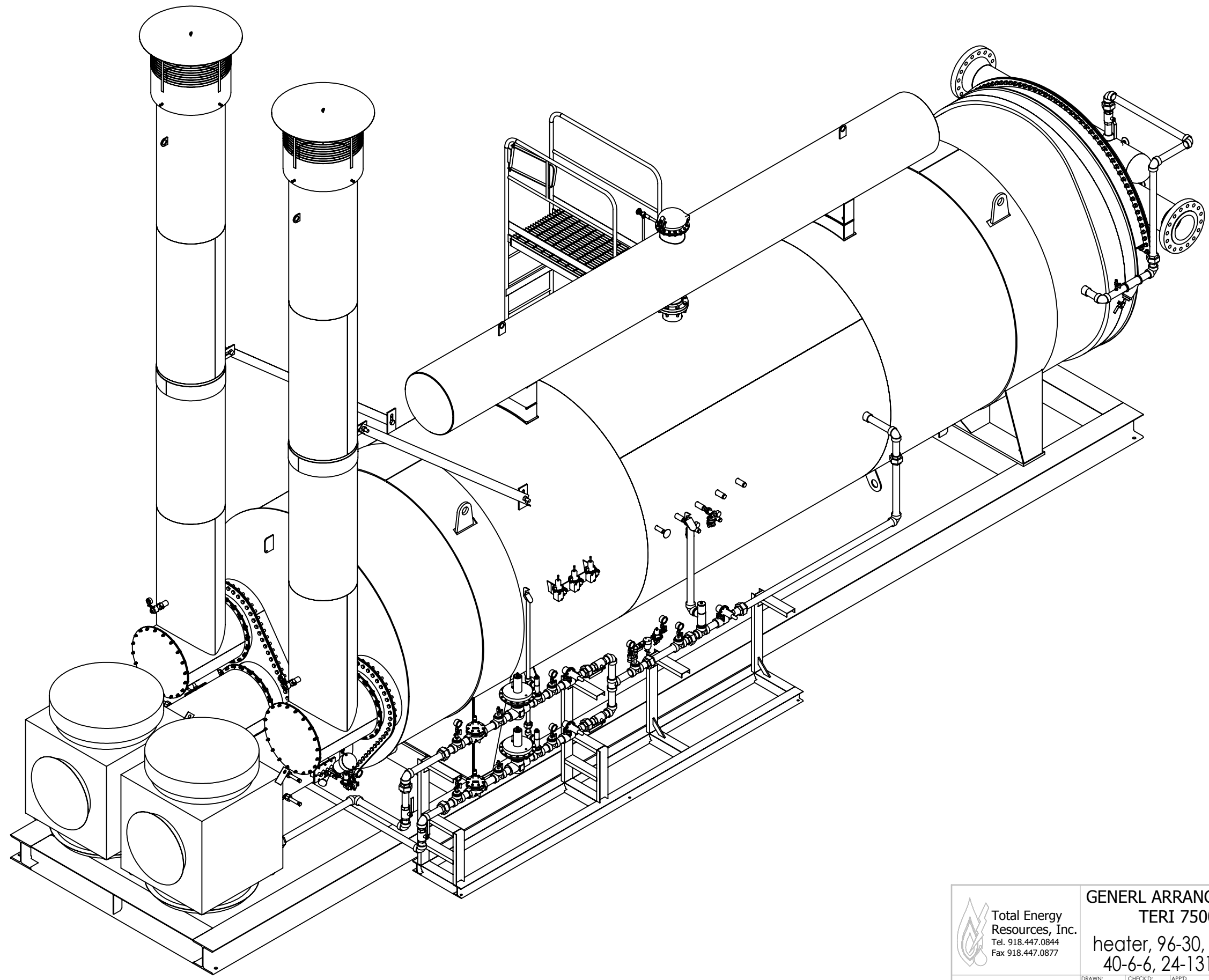
 Total Energy Resources, Inc. Tel. 918.447.0844 Fax 918.447.0877	GENERAL ARRANGEMENT TERI 7500 96"x30'		JOB NO: T131219H DATE DRAWN: 01-29-14 DWG STATUS: Concept REVISION NO: 01-29-14
	THIS DRAWING IS THE PROPERTY OF TOTAL ENERGY RESOURCES INC., TULSA, OKLAHOMA AND IS NOT TO BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT.	DRAWN: KTP CHECKED: APPD SCALE: 1:84 CUSTOMER: TECO-Peoples Gas	SHEET 1 OF 2 DWG NO: GA131219

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8 7 6 5 4 3 2 1

D
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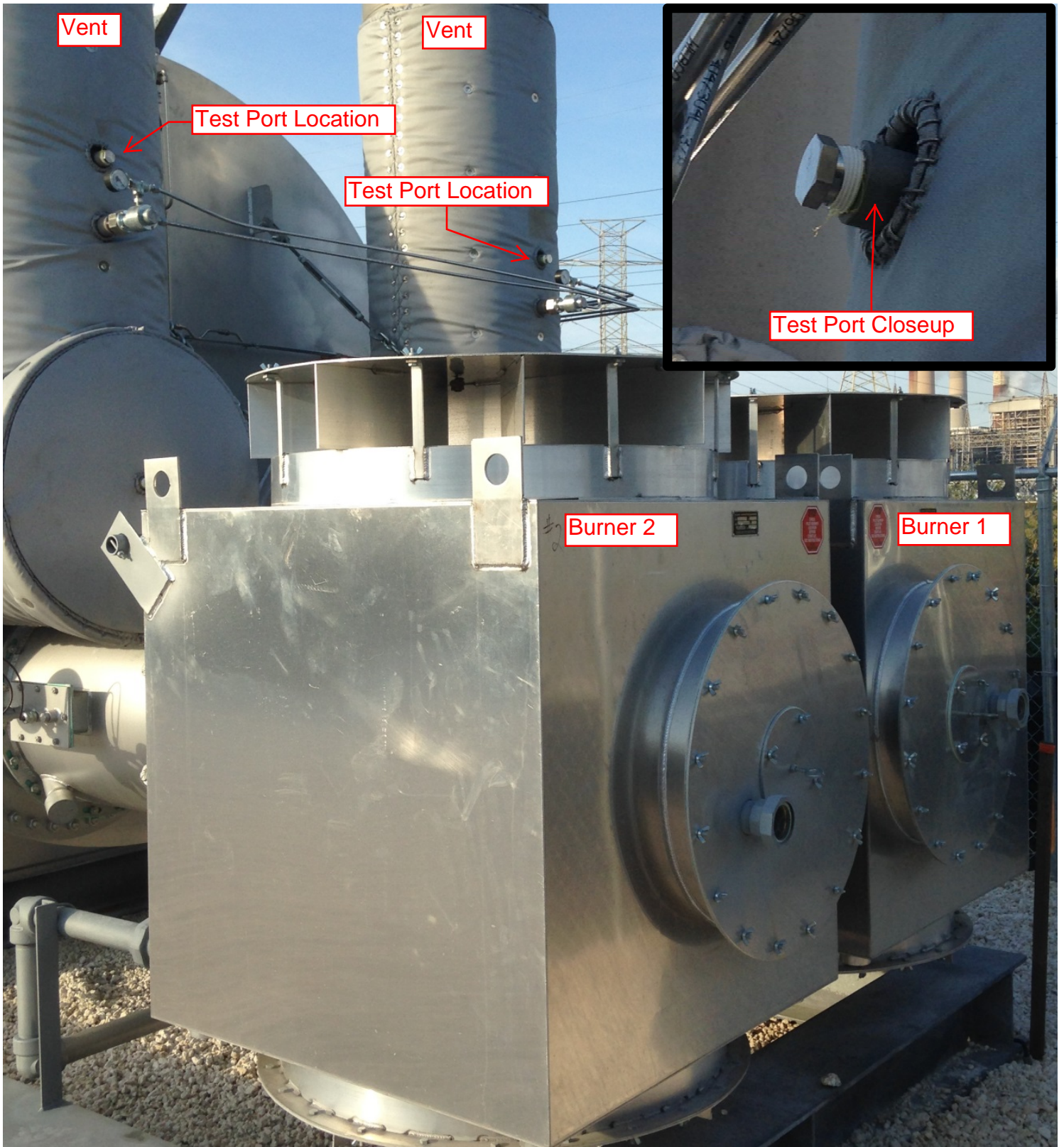


8 7 6 5 4 3 2 1

 <p>Total Energy Resources, Inc. Tel. 918.447.0844 Fax 918.447.0877</p>	GENEAL ARRANGEMNT		JOB NO: T131219H
	TERI 7500		DATE DRAWN: 01-29-14
	heater, 96-30, 4 sch		DWG STATUS: Concept
	40-6-6, 24-131219		REVISION NO: 01-29-14
<small>THIS DRAWING IS THE PROPERTY OF TOTAL ENERGY RESOURCES INC., TULSA, OKLAHOMA AND IS NOT TO BE REPRODUCED WITHOUT PRIOR WRITTEN CONSENT.</small>		DRAWN: KTP	CHECKED: APPD
		CUSTOMER: TECO-Peoples Gas	SCALE: 1:32
			SHEET 2 OF 2
			DWG NO: GA131219

Attachment B

Photograph of Existing Test Port Locations



Vent

Vent

Test Port Location

Test Port Location

Test Port Closeup

Burner 2

Burner 1