

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Pre-Installation Site Survey

VST EVR Total Balance System

E.O. VR-203 and VR-204

Pre-Installation Inspector Information

Your name:			
Are you a VST ASC?	<input type="checkbox"/> Yes <input type="checkbox"/> No	VST ASC Number:	
VST certification level	<input type="checkbox"/> Level A	<input type="checkbox"/> Level B	<input type="checkbox"/> Level C
Company Name:			
Company Address			
City, State, Zip			
Phone			
E-mail			

GDF Contact Information

GDF Name:	
GDF Address:	
GDF Phone:	
GDF Fax:	
GDF #:	
GDF Contact Person:	
E-mail	
Notes:	

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

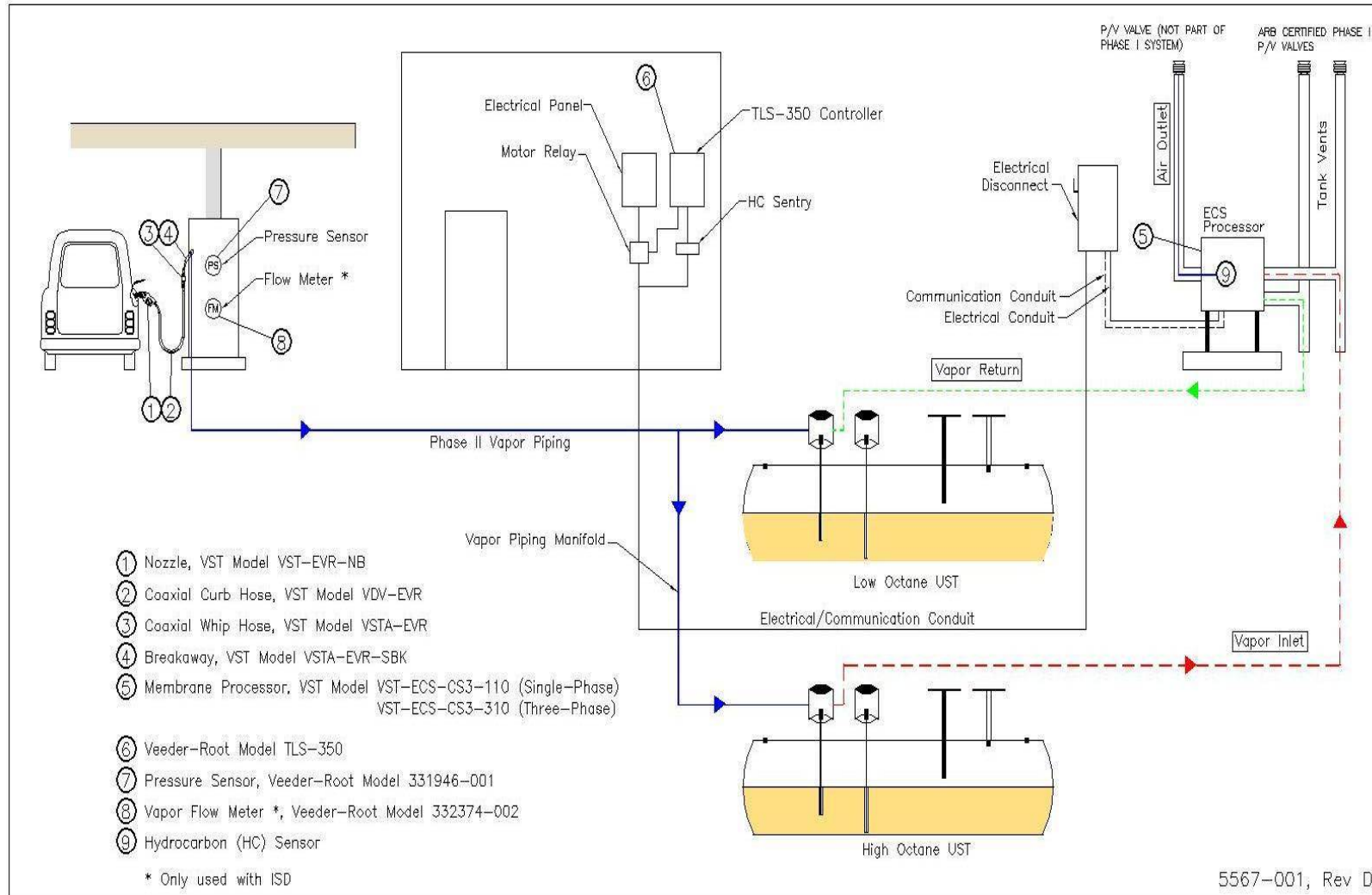
Snapshot of Site Requirements

<p><u>Local Air Pollution Control District</u></p> <ul style="list-style-type: none">GDF must contact the local air pollution control district for specific local vapor-recovery requirements. <p><u>Ground-Mount Location</u></p> <ul style="list-style-type: none">The local jurisdiction must allow the <i>Processor</i> to be placed on the ground.The <i>Processor</i> must be protected from damage.<i>Processor</i> must be located at least 10' from the property line.<i>Processor</i> must be within 100' of the vent risers. <p><u>Roof-Mount Location</u></p> <ul style="list-style-type: none">The local jurisdiction must allow the <i>Processor</i> to be placed on the roof.Structure must be strong enough to hold the weight of the <i>Processor</i>:<ul style="list-style-type: none">▶ Three-phase 350 lbs. (Incl. cover wt.).▶ Single-phase 385 lbs. (Incl. cover wt.).VST recommends a 36" perimeter around the <i>Processor</i> for maintenance and testing.The height of the <i>Processor</i> must be above the building parapet to allow for the proper vapor-piping slope.	<p><u>Canopy-Mount Location</u></p> <ul style="list-style-type: none">The local jurisdiction must allow the <i>Processor</i> to be placed on the canopy.Structure must be strong enough to hold the weight of the <i>Processor</i>:<ul style="list-style-type: none">▶ Three-phase 350 lbs. (Incl. cover wt.).▶ Single-phase 385 lbs. (Incl. cover wt.).VST recommends a 18" perimeter around the <i>Processor</i> for maintenance and testing.All safety and code concerns have been addressed. <p><u>Three Phase Electric</u></p> <ul style="list-style-type: none">3 empty breaker spaces 208/230-460v panel for blower and vacuum pump motors.<ul style="list-style-type: none">▶ (1) 115v breaker for the heat-trace cable.▶ (1) 115v outlet for the HC sentry.▶ GFCI protected, weatherproof, 115v convenience outlet located at the <i>Processor</i> is optional.2-hp vacuum pump / ½-hp blower. <p><u>Single Phase Electric</u></p> <ul style="list-style-type: none">2 empty 115v breaker spaces in the panel for the blower and vacuum pump motors.<ul style="list-style-type: none">▶ (1) 115v breaker for the heat- trace cable.▶ (1) 115v outlet for the HC sentry.▶ GFCI protected, weatherproof, 115v convenience outlet located at the <i>Processor</i> is optional.2-hp vacuum pump / ½-hp blower.	<p><u>Vent Risers</u></p> <ul style="list-style-type: none">Recommended slope of ¼" per foot on all vapor-piping connecting the <i>Processor</i> to the vent risers or to any other UST connection. (VST requires a minimum of 1/8" per foot minimum slope for all vapor piping.)The maximum distance the <i>Processor</i> can be from the vent risers is 100-feet.Any type of trap, regardless of the <i>Processor</i> location, is not permitted in any vapor lines connected to the <i>Processor</i>.To install the <i>Processor</i>, there must be two vent risers connected at different locations to the UST's or to the underground vapor piping.If only one vent riser exists, another one must be added. Trenching to a UST or underground vapor piping is required in order to add the second vent riser.A 5' radius around the vent riser P/V valve is a Class I, Div. 2 hazardous area as defined in NFPA 70.
--	--	---

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
 937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Overall GDF Layout



Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Processor Piping Diagram

Note 1. Minimum $\phi 1"$ Dia for lengths $< 10'$ from Processor to the vent risers
Minimum $\phi 1\text{-}1/2"$ Dia. for lengths $> 10'$ from the Processor to the vent risers
The three connections to the processor are $2"$ ϕ , NPT

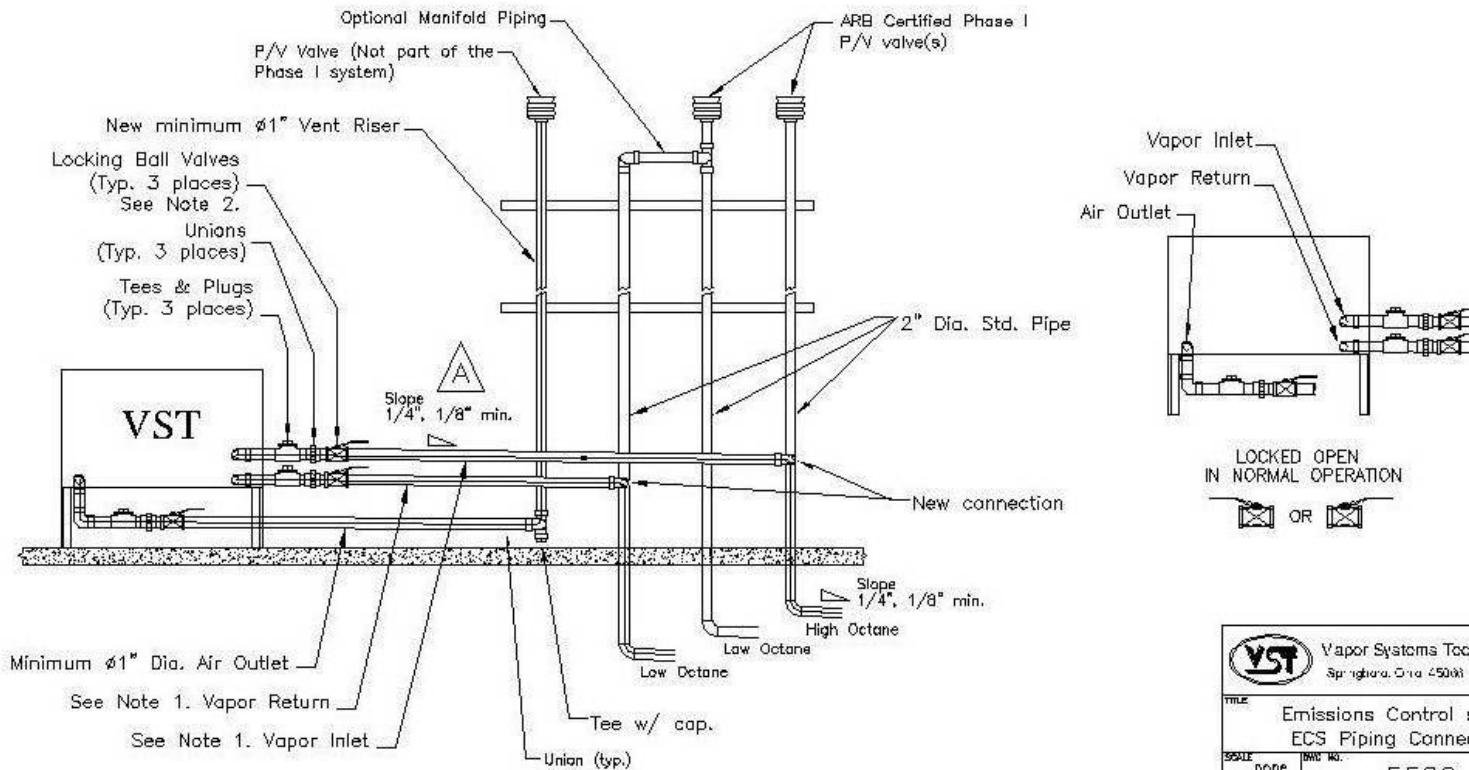
Note 2. All three valves shown (connecting to the processor) must be locking ball valves.



Flexible connections between the Processor locking ball valves and the vent(s) is allowable if required by the local authority having jurisdiction to meet seismic requirements. Should the flexible connections be installed that is not supported, the slope of the flexible connections back to the vent(s) shall be greater than $1/8"$ per foot.

REV	BY	DESCRIPTION	APPROVED BY	DATE
K		Changed P/V Description	T. Raterman	11/15/08

VST Model # VST-ECS-CS3-XXX
VST-ECS-CS3-110 (Single-Phase with HC Sensor)
VST-ECS-CS3-310 (Three-Phase with HC Sensor)



		Vapor Systems Technologies, Inc. Springboro, Ohio 45066	
TITLE Emissions Control system ECS Piping Connections			
SCALE none	REV. NO.	5500-001	REV K
SHEET 1 OF 1			

FILENAME: 5500-001

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Dispensers

1.	Make and model	
2.	Assist or Balance (OD of Vapor Pipe)	
3.	MPD or Unihose	
4.	Number of dispensers	
5.	Shallow or deep pans	
6.	Are there existing conduits that can be used for the ISD components?	

Veeder-Root TLS

7.	Does the GDF have a TLS-350? Fill out a Veeder-Root ISD Site Survey Form	
----	---	--

Vent Riser and UST

8.	Number of vent risers	
9.	Location of vent risers (show on sketch)	
10.	Where are the UST's manifolded? <input type="checkbox"/> Above Ground <input type="checkbox"/> Below Ground	

ECS Processor

11.	What are the possible locations that can be used for the Processor?	<input type="checkbox"/> Ground <input type="checkbox"/> Roof <input type="checkbox"/> Canopy
12.	Will a waiver or variance be needed for a ground-mount location?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Electrical

13.	Does the GDF have 3-phase, 208/230v available?	<input type="checkbox"/> Yes <input type="checkbox"/> No
14.	Available breaker space for 115v	<input type="checkbox"/> Yes <input type="checkbox"/> No
15.	Available breaker space for either 208/230v 1-phase or 208/230v 3-phase	<input type="checkbox"/> Yes <input type="checkbox"/> No
16.	Will a sub panel need to be installed	<input type="checkbox"/> Yes <input type="checkbox"/> No
17.	Are there any existing conduits at or near the proposed ECS processor location (for example lights, signs, vacuum)?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Documentation

Include photos of each of the above items as needed.

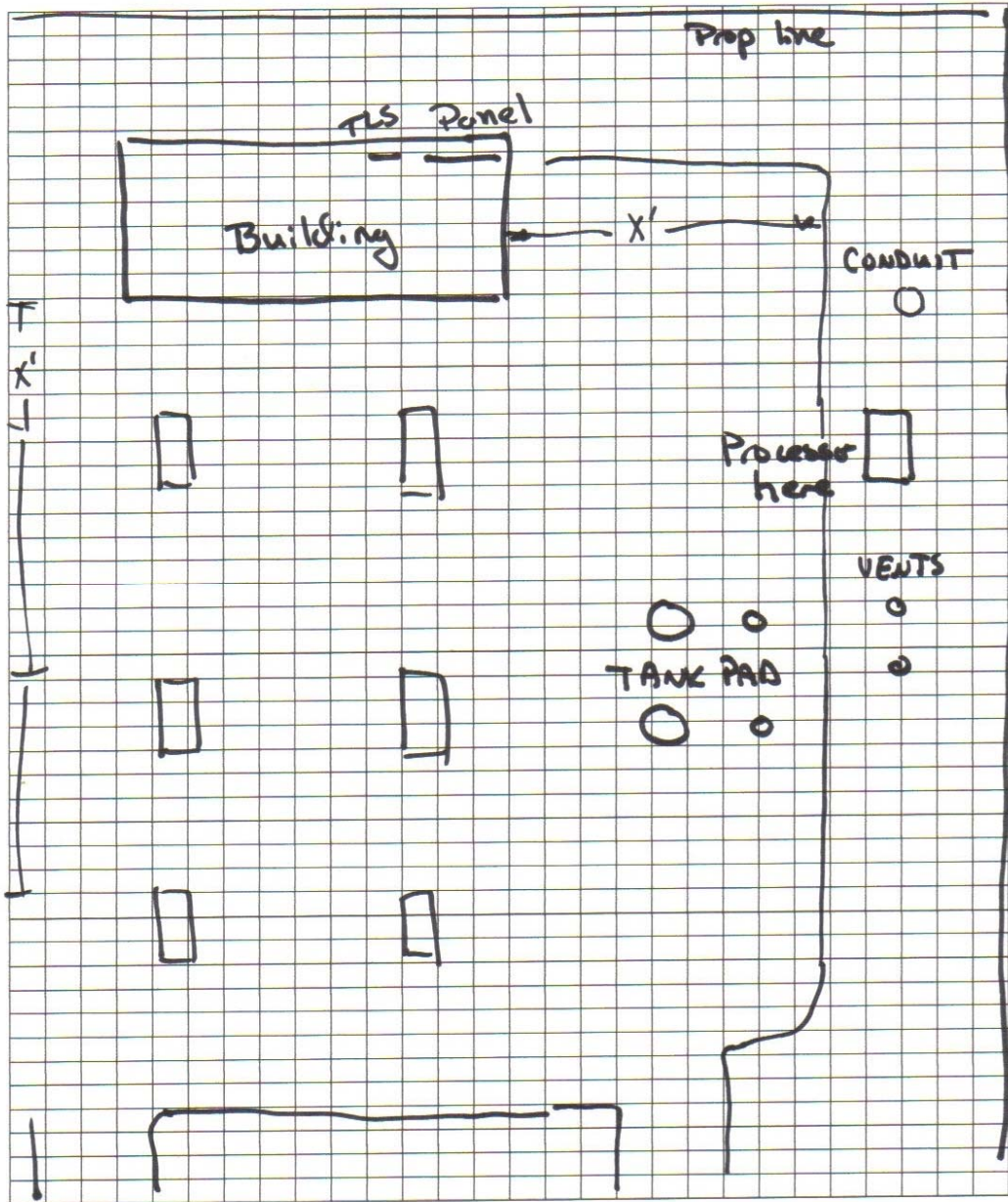
On the following page, draw a sketch of the GDF layout. Include (a) the location of the vent risers, (b) tank pad, (c) dispensers, (d) building with locations of the TLS-350 and the electrical panel, (e) property lines, and (f) any existing conduits near the proposed processor location.

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Sample Sketch

Example Sketch



Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com

Your Sketch

Please show vapor piping and conduit runs

Vapor Systems Technologies, Inc

650 Pleasant Valley Drive * Springboro, OH 45066
937.704.9333 PH * 937.704.9443 FX * www.vsthose.com
