



December 21, 2022

Cindy Mulkey, Deputy Director
Department of Environmental Protection
Office of Siting Coordination
2600 Blair Stone Road, MS 5500
Tallahassee, Florida 32399-2400

Re: Florida Power & Light Company
Cape Canaveral Energy Center (PA 08-53)
Request for Post Certification Amendment
Remote Generator Purge System - Hydrogen Purge Vaporizer Pads

Dear Ms. Mulkey:

Florida Power & Light Company (FPL) requests a post-certification amendment to FPL's Cape Canaveral Energy Center (CCEC) Site Certification (PA 08-53) pursuant to Section 403.5113, Florida Statutes and Rule 62-17.2015(1), Florida Administrative Code. The purpose of this amendment request is for authorization to construct three concrete foundations (8 feet x 8 feet, each) (Hydrogen Purge Vaporizer Pads) to support the installation of the remote generator purge system.

The remote generator purge system is being installed in support of hurricane preparedness and safety. The system will allow for safe evacuation of generator H₂ emission from the control room so that personnel do not have to work outdoors in a storm environment to purge the generator.

The total combined proposed concrete pad area is 192 square feet and will be constructed entirely within the previously developed upland area of CCEC (see Attachment A – Project Area Map) and there will be no increase in impervious area. These proposed improvements have been accounted for in the previously approved impervious area in Drainage Basins 9, 15, and 23. No changes to the stormwater management system are necessary to support these improvements, and there will be no increases to the previously approved discharge rates from CCEC (see Attachment B – Drainage Statement and Concept Plan). No in-water work will be needed for this project. No wetlands or listed threatened or endangered species will be impacted by this project.

Thank you for your consideration of FPL's request to amend PSL Site Certification No. PA 08-53. If you have any questions regarding this submittal, please do not hesitate to contact me at (561)691-7068 or Kennard.proctorjr@fpl.com.

Sincerely,
FLORIDA POWER & LIGHT COMPANY

A handwritten signature in blue ink, appearing to read 'Ken Proctor', is written over a light blue horizontal line.

Ken Proctor
Sr. Project Manager, Environmental Services

Florida Power & Light Company

700 Universe Boulevard, Juno Beach, FL 33408

CC: Natalie Vitola, FPL
Claudine Alexander, FPL

Enclosures:

Attachment A – Project Area Location Map

Attachment B – Drainage Statement and Concept Plan

Attachment C – Equipment Detail

Attachment A
Project Area Location Map

FPL CCEC

Remote Generator Purge System Project (Hydrogen Purge Vaporizer Pads)

Legend

 Cape Canaveral Energy Center

 Project Area



600 ft

Attachment B

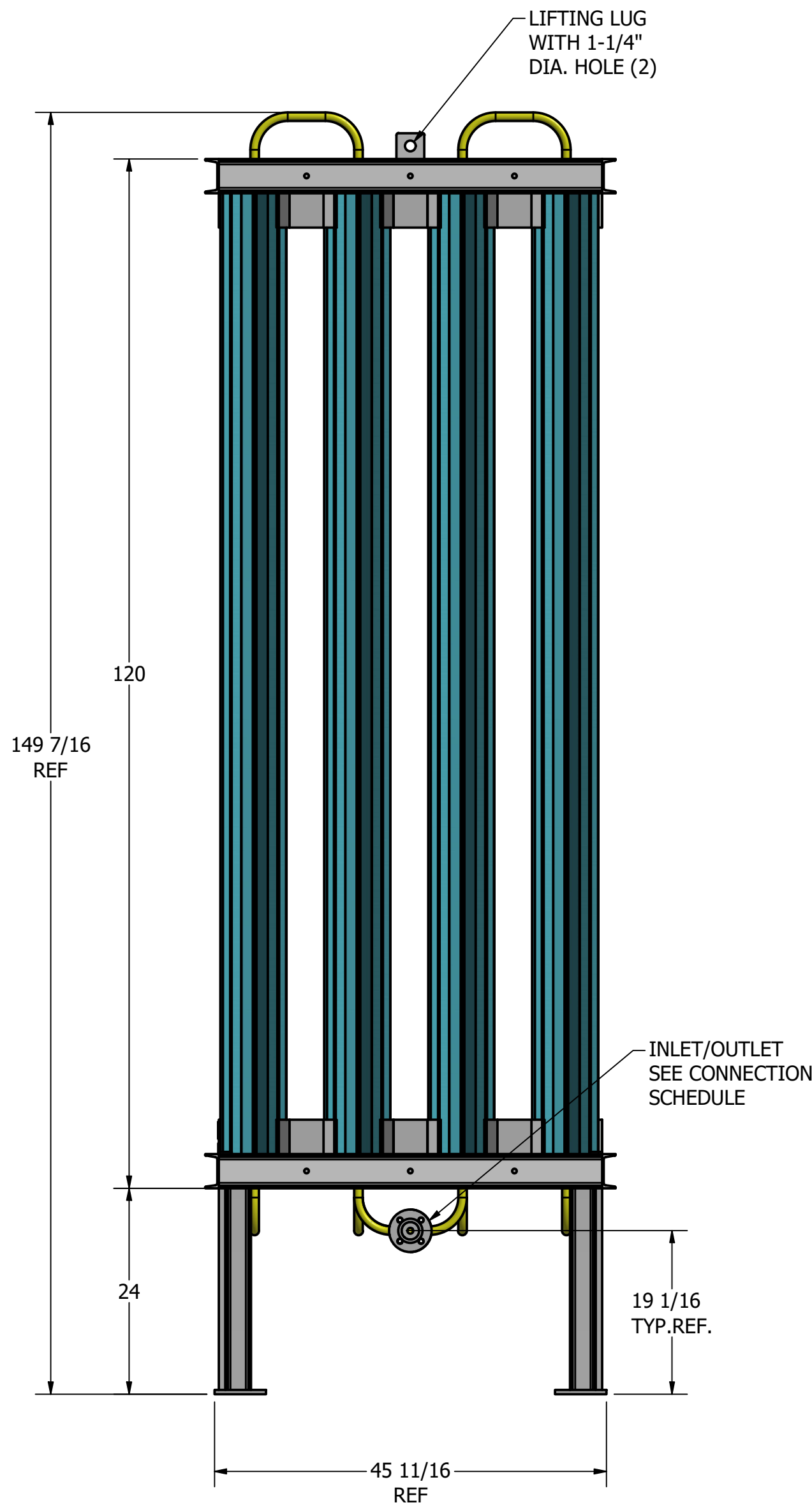
Drainage Statement and Concept Plan

See separate file name:

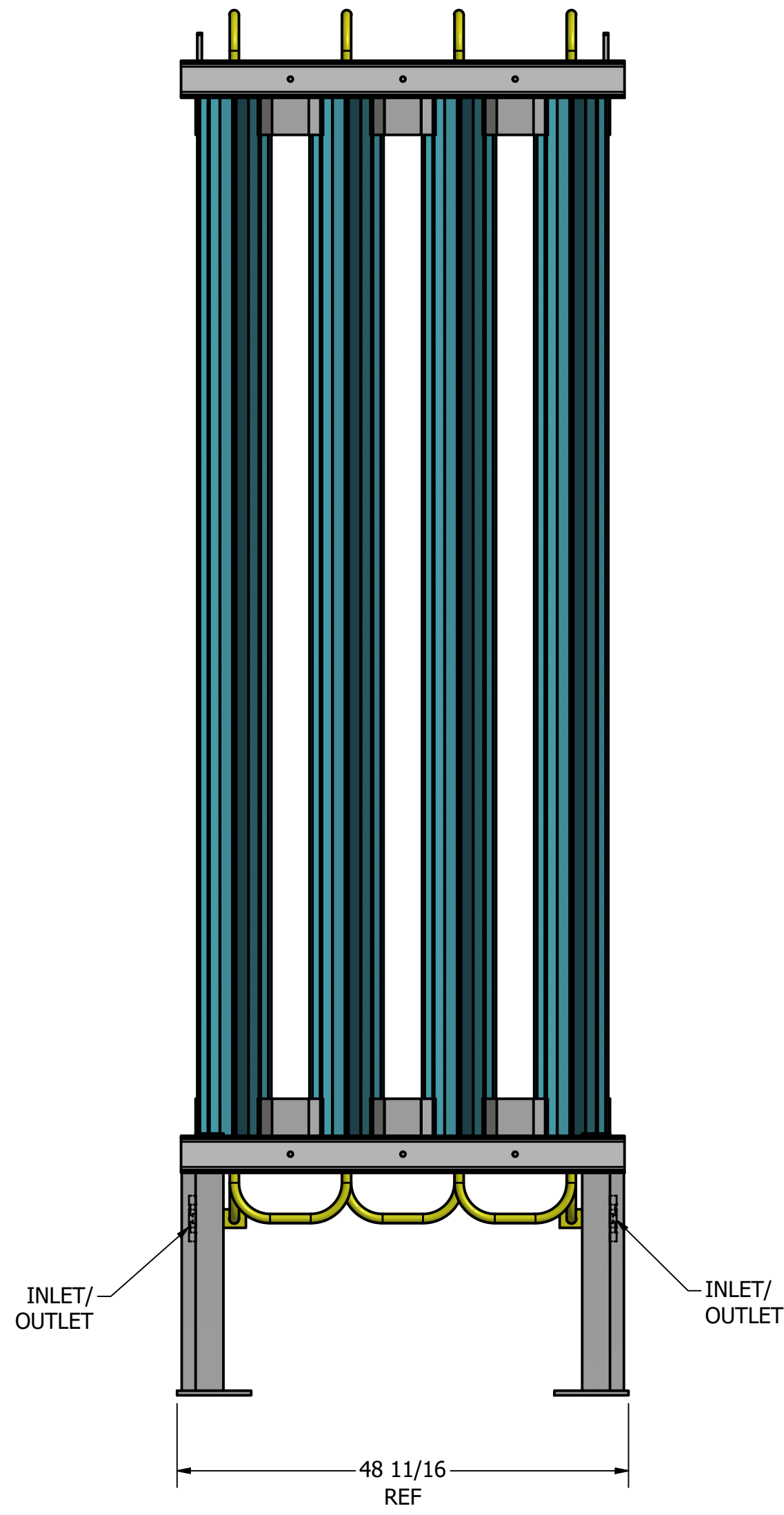
AM22-274HydrogenPurgePadsAttachmentB.pdf

Attachment C

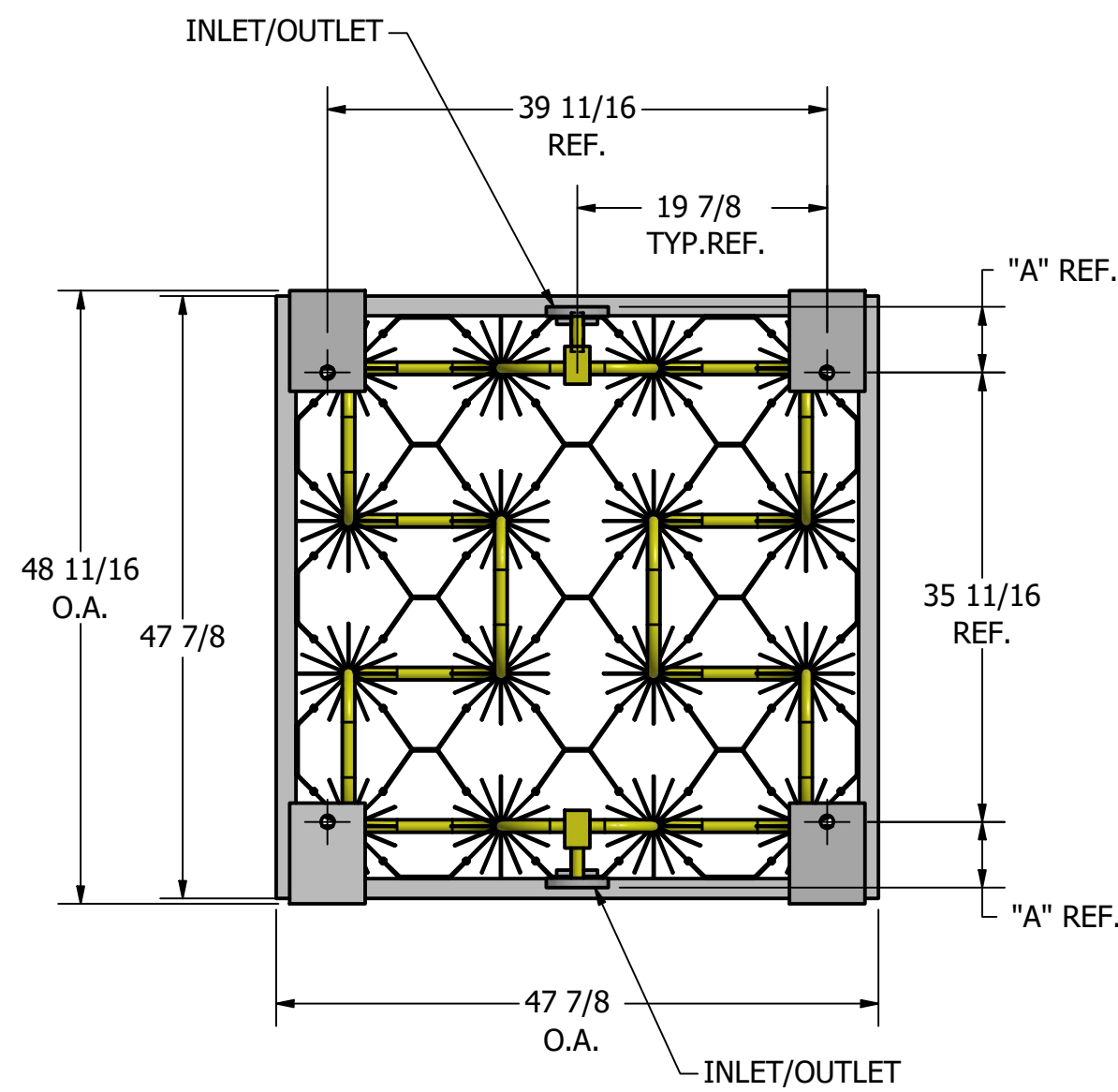
Equipment Detail



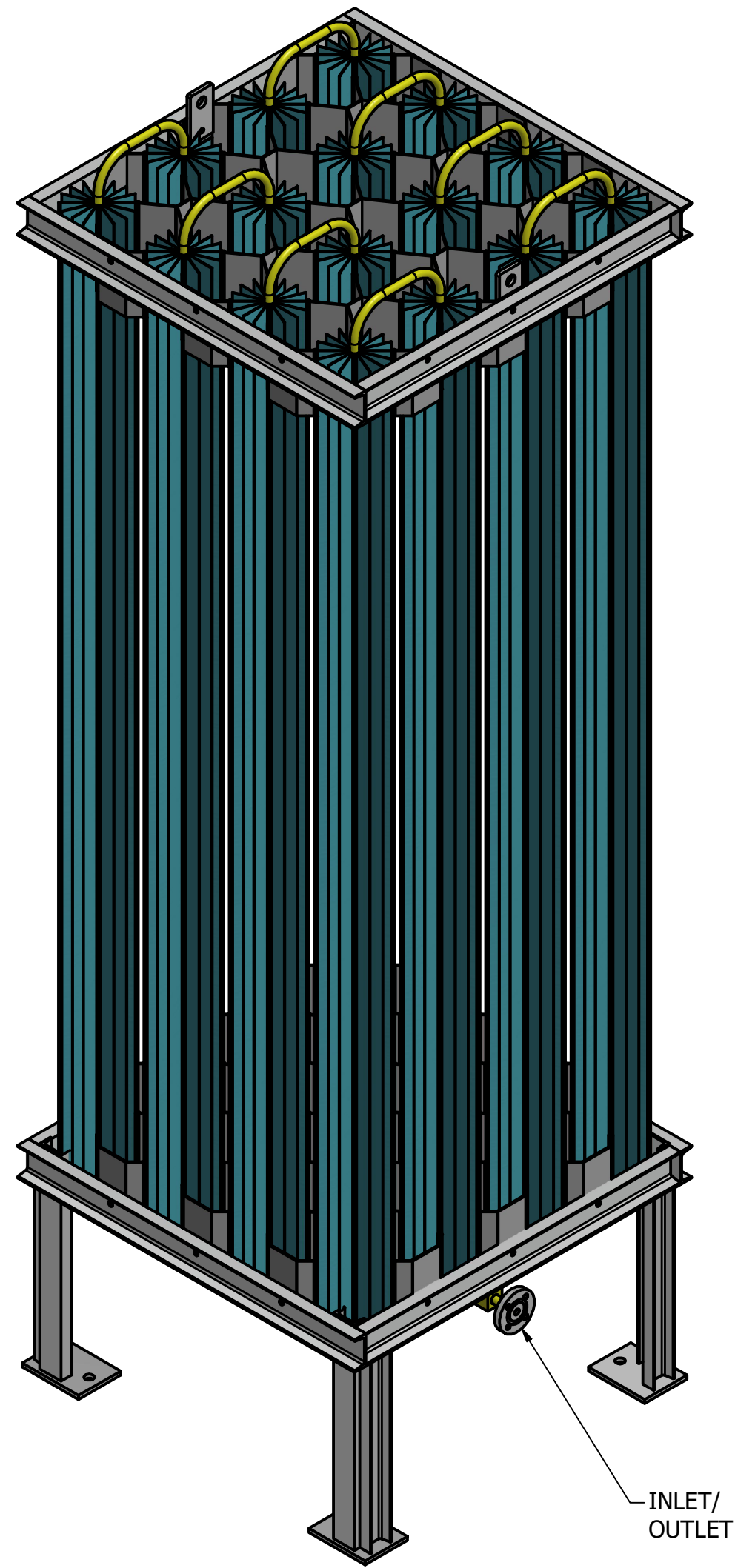
FRONT VIEW



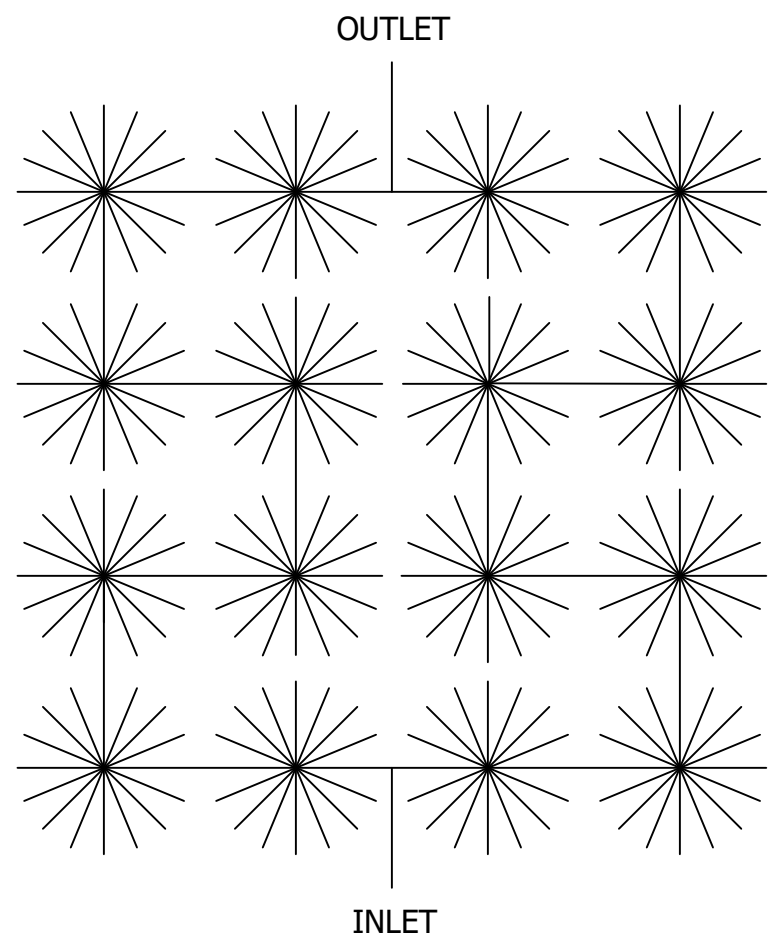
SIDE VIEW



BOTTOM VIEW



ISOMETRIC VIEW



PIPING DIAGRAM
TOP VIEW

NOTES:

- 1 - MODEL NO.: SEE CONNECTION SCHEDULE
- 2 - DESIGN PRESSURE: SEE CONNECTION SCHEDULE
- 3 - PNEU. TEST PRESSURE: SEE CONNECTION SCHEDULE
- 4 - NOMINAL WEIGHT: 855 LBS.
- 5 - ANCHOR BOLT SIZE: 1"
- 6 - CONNECTIONS: SEE CONNECTION SCHEDULE VSF-4.2-700-05 SHOWN
- 7 - VAPORIZER SHALL BE SHIPPED FROM FACTORY CLEAN FOR OXYGEN SERVICE.
- 8 - VAPORIZER SHALL BE ANCHORED TO A CONCRETE PAD TO AVOID FALLING FROM GUSTS OF WIND BEFORE FINAL INSTALLATION.
- 9 - VAPORIZER SHALL BE INSTALLED IN AN OPEN AREA WHERE SUNLIGHT IS PRESENT FOR BETTER PERFORMANCE.
- 10 - FOUNDATION RECOMMENDATION:
 - THE OWNER / INSTALLATION CONTRACTOR IS TO OBTAIN THE SERVICES OF A REGISTERED STRUCTURAL ENGINEER TO PROVIDE A FOUNDATION DESIGN. THE REGISTERED ENGINEER SHALL BE FAMILIAR WITH REGULATORY REQUIREMENTS AT THE INSTALLATION SITE, INCLUDING CONTROLLING BUILDING CODES, SOIL BEARING PRESSURE, CONTROLLING SEISMIC OR WIND CRITERIA, EXTREME FROST PENETRATION, FLOODING, AND OTHER SPECIFIC REQUIREMENTS WHICH APPLY.
 - THE FOUNDATION SHOULD BE PROPORTIONED, TESTED MIXED, INSTALLED AND CURED IN ACCORDANCE WITH CONTROLLING BUILDING CODES AND ACCEPTED CONCRETE DESIGN / CONSTRUCTION CODES PRIOR TO INSTALLATION.

CONNECTION SCHEDULE - AVAILABLE OPTIONS				
CONNECTION TYPE	"A" (REF.)	DESIGN PRESS.	TEST PRESS.	MODEL NO.
1" MNPT BRASS (SWAGelok)	5-11/16"	700 PSIG	770 PSIG	VSF-4.2-700-04
1" MUELLER 4-BOLT FLANGE	5-3/16"	700 PSIG	770 PSIG	VSF-4.2-700-05
1-1/2" MUELLER 4-BOLT FLANGE	5-3/16"	700 PSIG	770 PSIG	VSF-4.2-700-06

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DRAWN BY: RJP	CHECKED BY: KBK	APPD BY:	DATE: 8/25/2022
TITLE: VAPORIZER, SUPERFIN, LOW PRESSURE, AL, (16) 10' FIN, CRIMPED CONSTRUCTION, SHEET 1 OF 1			
SCALE: NTS	SIZE: D	DRAWING NUMBER: VSF-4.2-AL-16-4X4-P-10	REV.: 0