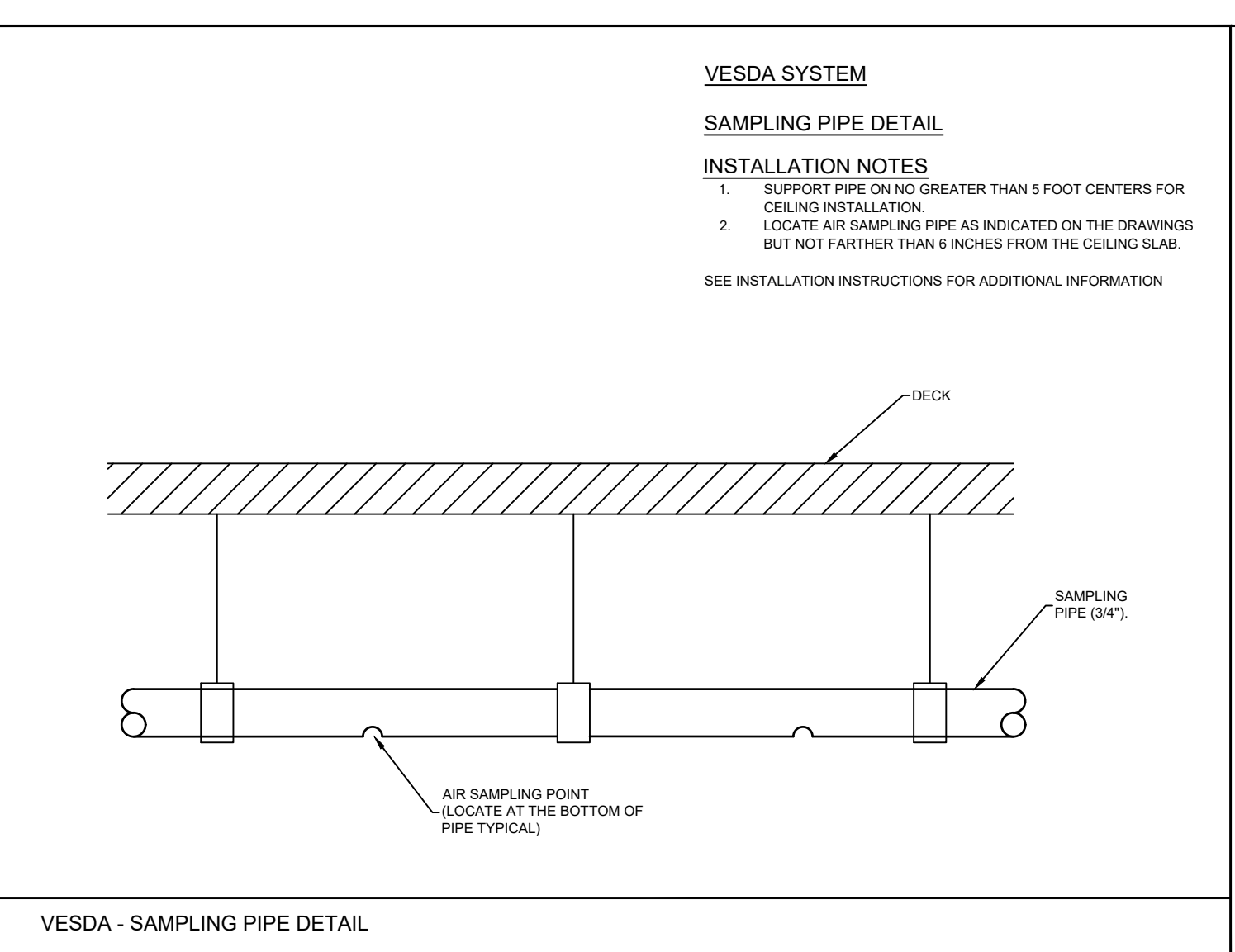
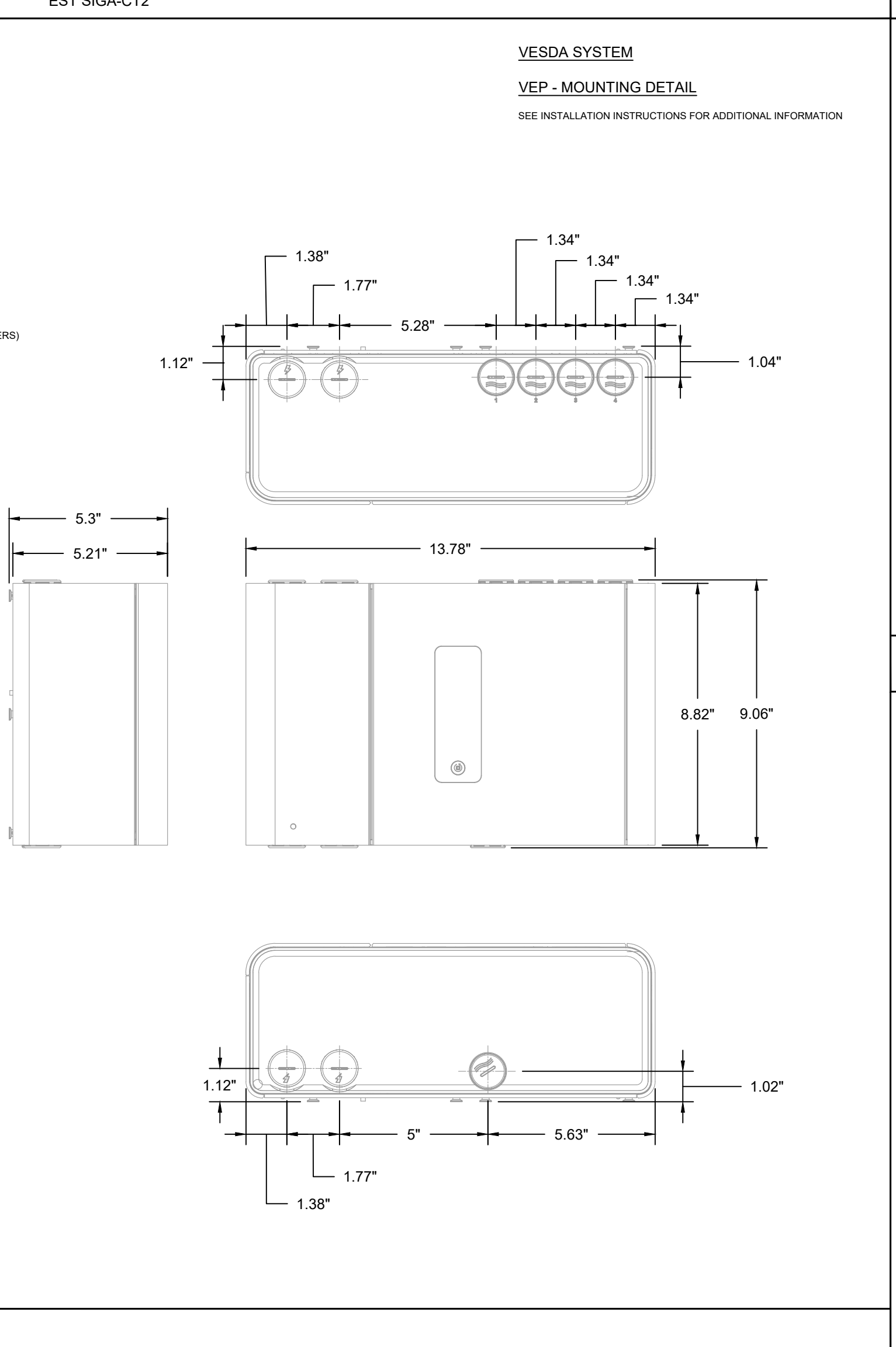
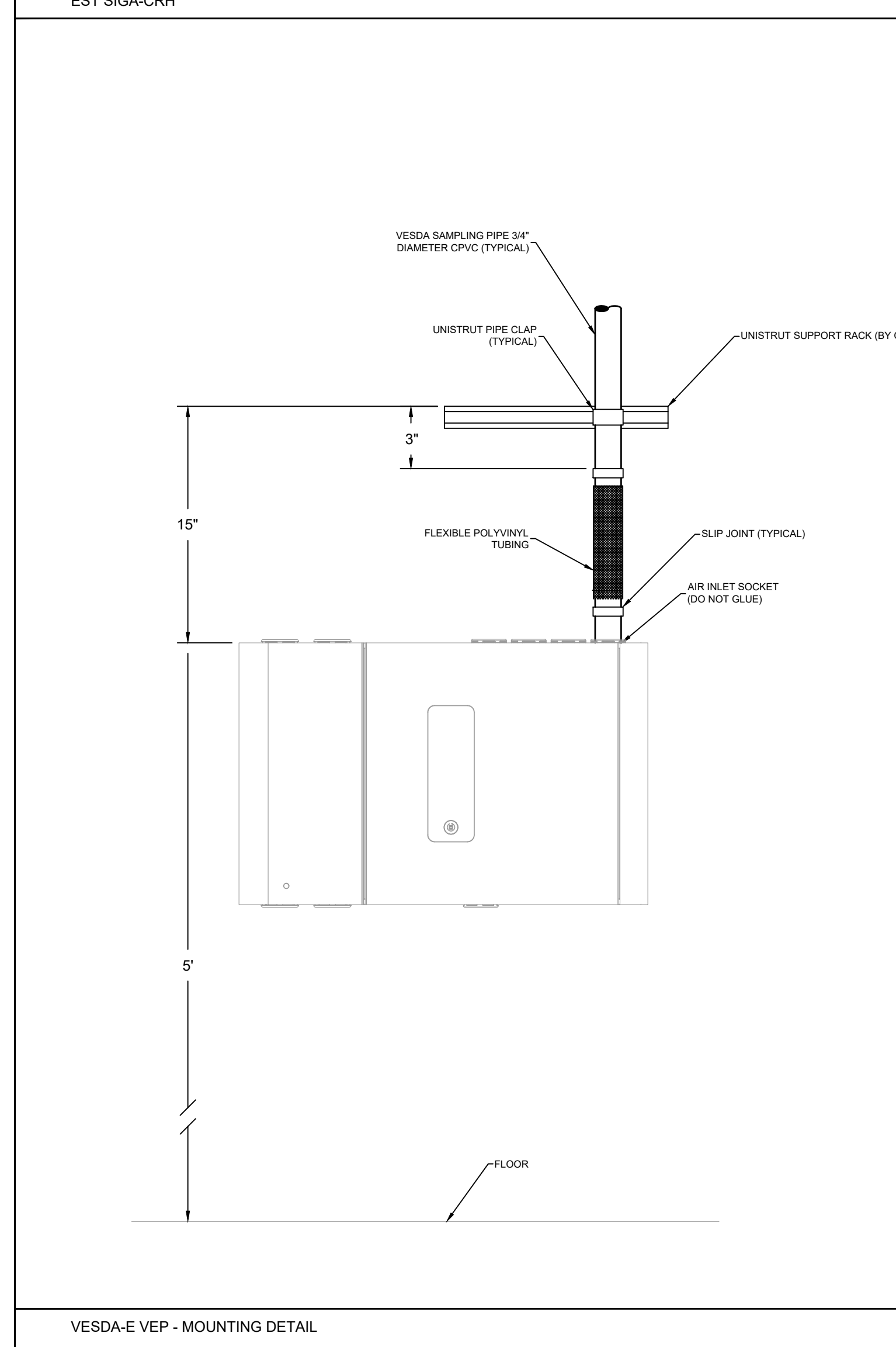
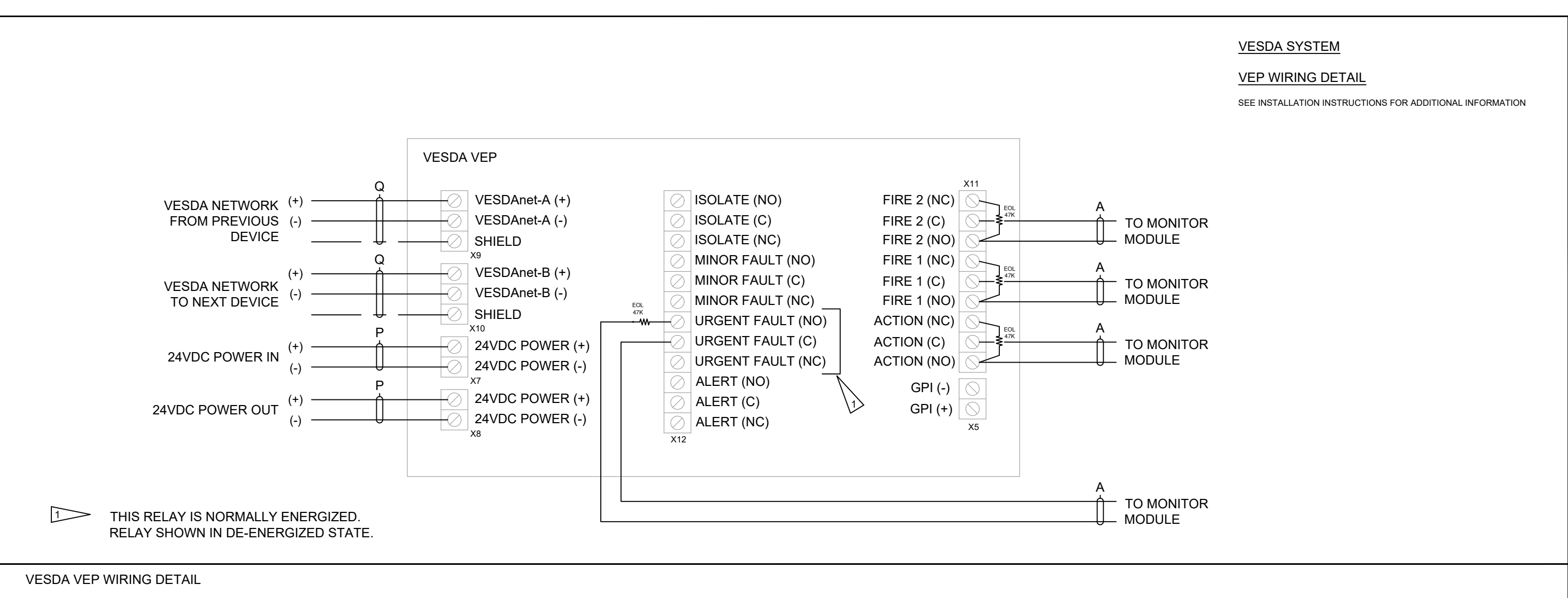
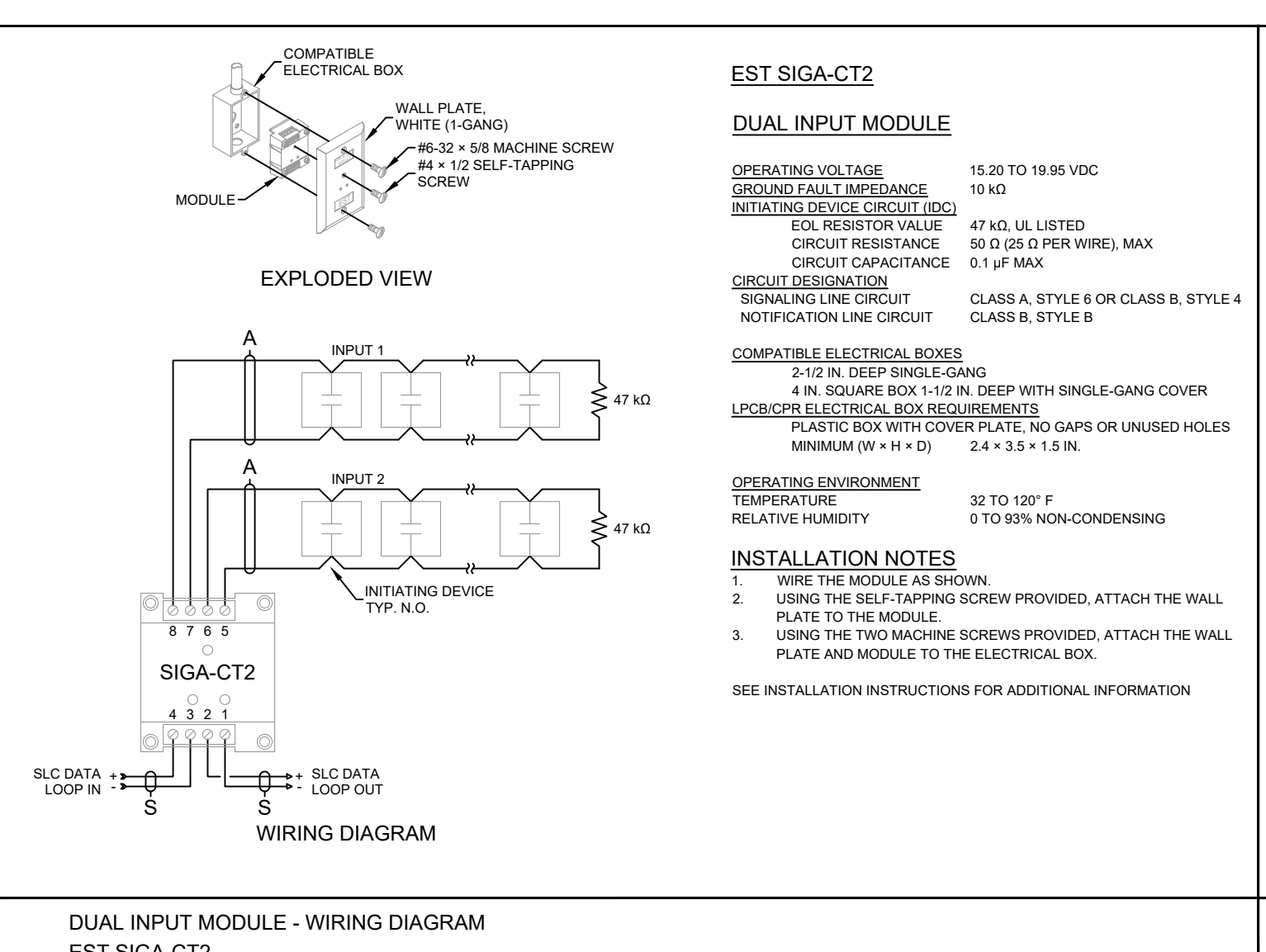
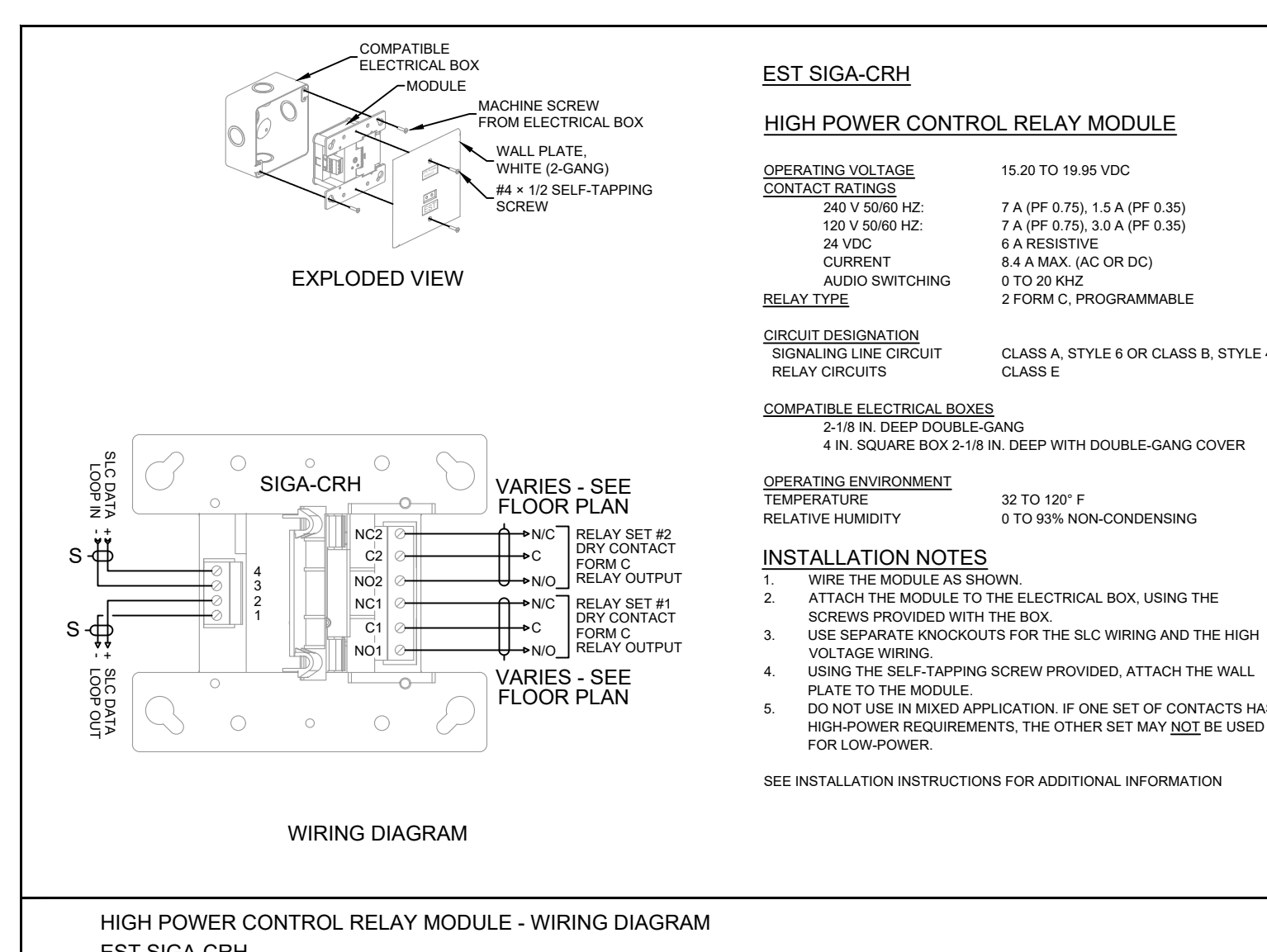


This document and the information/depictions contained/shown is the exclusive property of Converjint Technologies LLC and shall be handled as proprietary and confidential information and must be returned upon request. This document cannot be reproduced by any means without the written authorization of Converjint Technologies LLC.



BPS6A NAC 1 - Battery Calculation

POWER SUPPLY DESIGNATOR	NAC	POWER SUPPLY PREFIX	1	STANDBY DURATION REQUIRED (HRS)	4
PANEL LOCATION	MECHANICAL ROOM			ALARM RING TIME REQUIRED (MIN)	5
AREA SERVED	VESDA POWER			SPARE CAPACITY (%)	25%

POWER SUPPLY BASE LOAD/AUXILIARY POWER OUTPUT

PART #	DESCRIPTION	QTY.	SUPV. CURRENT (mA)		ALARM CURRENT (mA)	
			EACH	TOTAL	EACH	TOTAL
BPS6A	REMOTE BOOSTER POWER SUPPLY	1	70	70	270	270
BPS AUX	BPS CIRCUITS SET TO AUX OUTPUT	4	35	140	35	140
SIGA-CC1S	SIGNAL MODULE WITH STROBE SYNC	1	0	0	6	6

NAC/AUX OUTPUTS

NAC/AUX OUTPUTS	DESCRIPTION	SUPV. CURRENT (mA)		ALARM CURRENT (mA)	
		TOTAL	TOTAL	TOTAL	TOTAL
1	AUX. POWER VESDA POWER (EXISTING)	1440	1440	1620	1620
2	AUX. POWER VESDA POWER (EXISTING)	1440	1440	1620	1620
3	AUX. POWER VESDA POWER (EXISTING)	960	960	1080	1080
4	AUX. POWER VESDA POWER (NEW)	367	367	400	400

SUBTOTAL SUPERVISORY CURRENT (AMPS): 4.417
TOTAL SUPERVISORY CURRENT WITH STANDBY (AMPS): 17.668
SUBTOTAL ALARM CURRENT (AMPS): 5.136
TOTAL ALARM CURRENT WITH ALARM RING TIME (AMPS): 0.428
SPARE CAPACITY: 25%
TOTAL AMP HOUR REQUIRED (AMPS): 22.620
BATTERY SIZE REQUIRED (AH): 24
BATTERY CABINET PROVIDED: YES

CIRCUIT N1-4 - AUX. POWER SUMMARY

CIRCUIT TYPE	AUX. POWER					
	DESCRIPTION	VESDA POWER (NEW)				
POWER SUPPLY INFORMATION						
NOMINAL STARTING VOLTAGE (Vdc)	19.7	LOAD FACTOR (LF)	0.59	CABLE PROPERTIES		
MINIMUM DEVICE VOLTAGE (Vdc)	16	VOLTAGE W/LOAD FACTOR (VDC)	19.464	WIRE GAUGE (AWG)	14	
TOTAL SUPERVISORY CURRENT (AMPS)	0.367	TOTAL ALARM CURRENT (AMPS)	0.400	Ω PER 1K FEET (OHMS)	3.07	
PART #	DEVICE	QTY	STANDBY CURRENT (mA)		ALARM CURRENT (mA)	
			EACH	TOTAL	EACH	TOTAL
VEP-A00-1P	VESDA-E, ASPIRATOR @ FIXED RPM	1	367	367	400	400

REV	JOB - DESCRIPTION	DATE	BY
-	ISSUED FOR PERMIT	8/13/2024	JU

DRAWN BY: JACOB LU
 PROJECT DESIGNER: JACOB LU
 PROJECT MANAGER: CHARLEY P.
 JOB NUMBER: 1980-0004-0007
 SCALE: AS SHOWN DATE: 8/13/2024

JOB NAME 1
 JOB NAME 2
 JOB ADDRESS
 CITY, STATE, ZIP

DEVICE DETAILS
 FIRE ALARM SYSTEM

DRAWING: FA-4-1

IF DRAWING IS NOT 30" x 42" IT IS A SCALED COPY