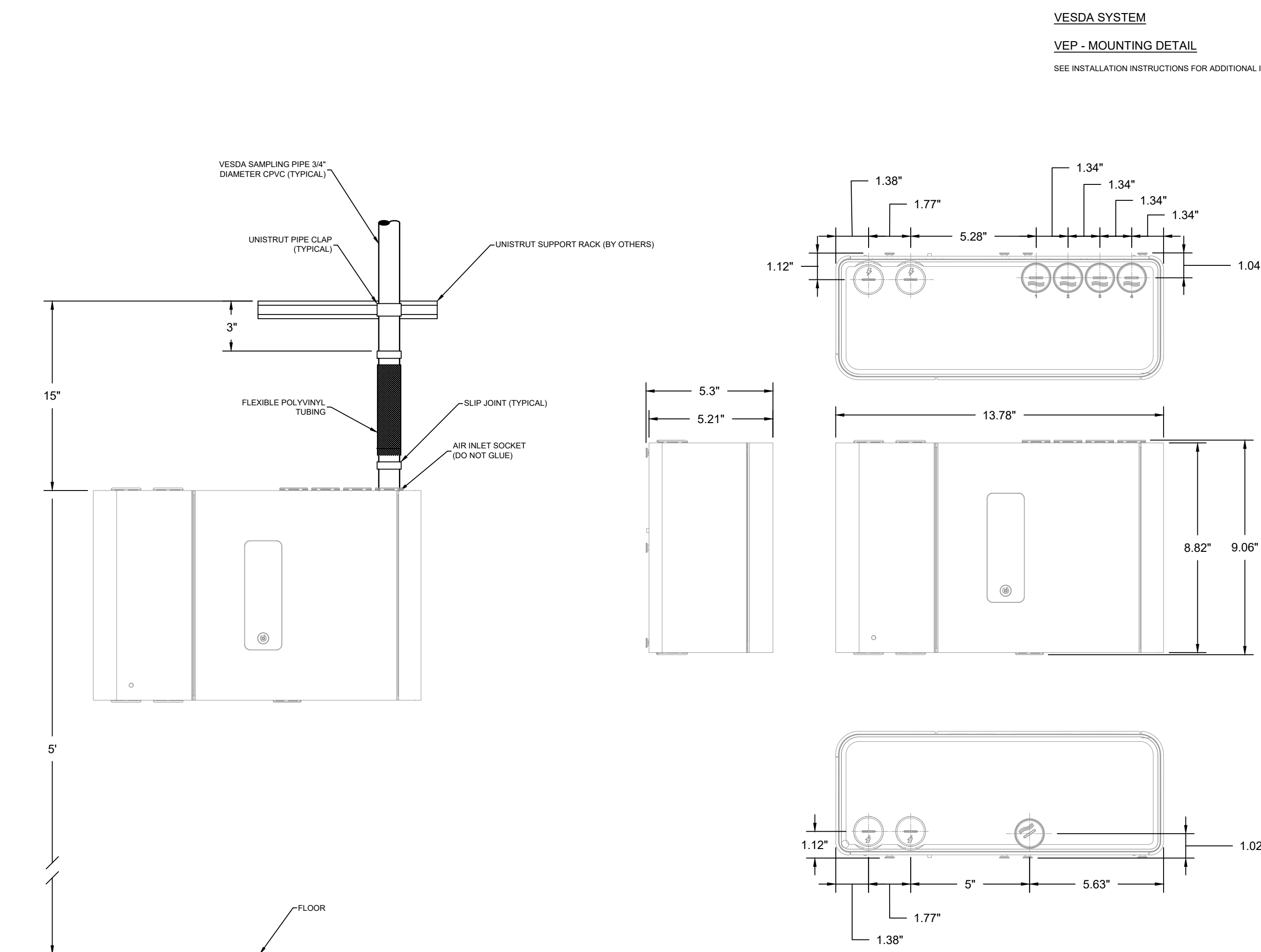
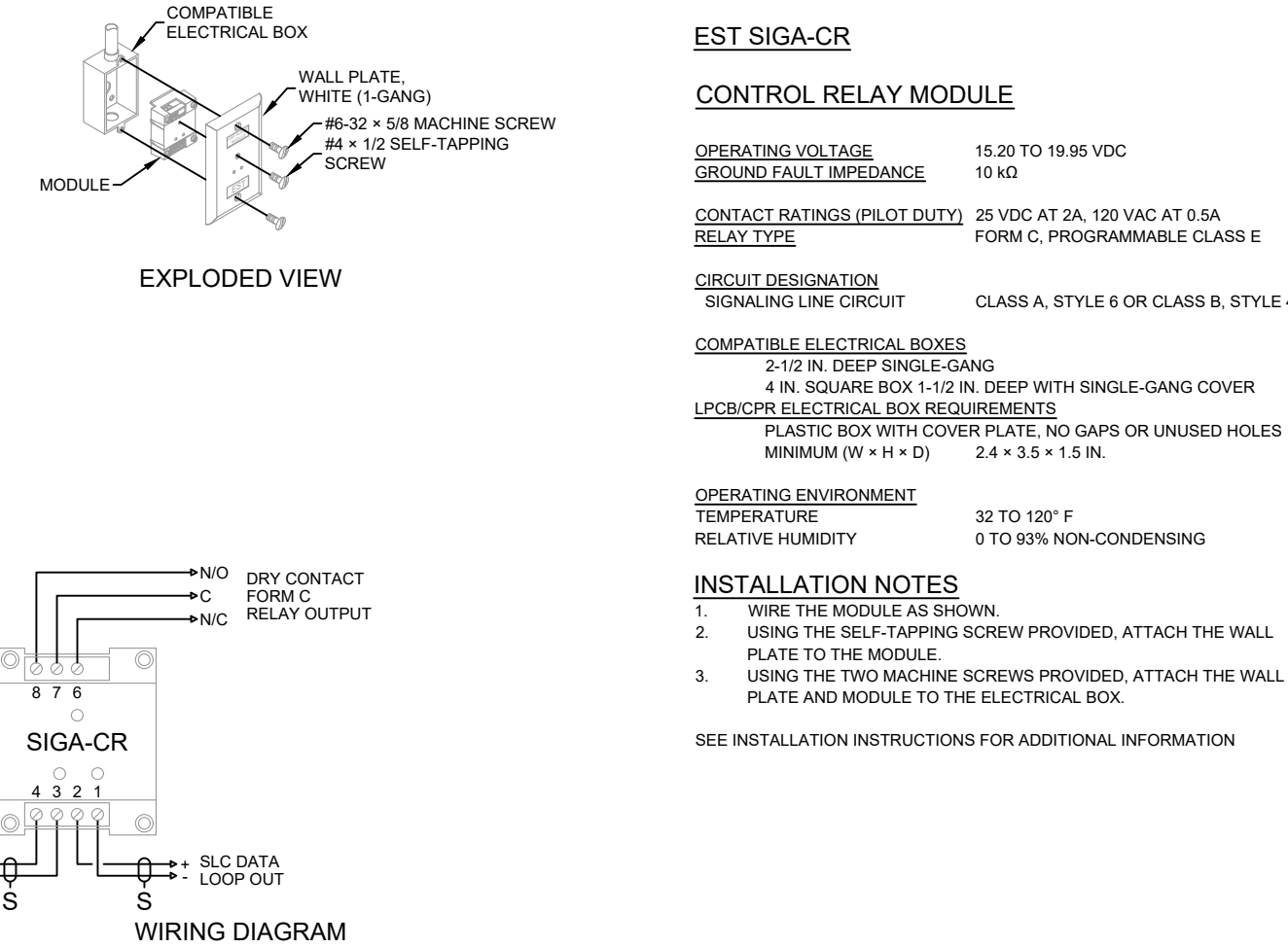


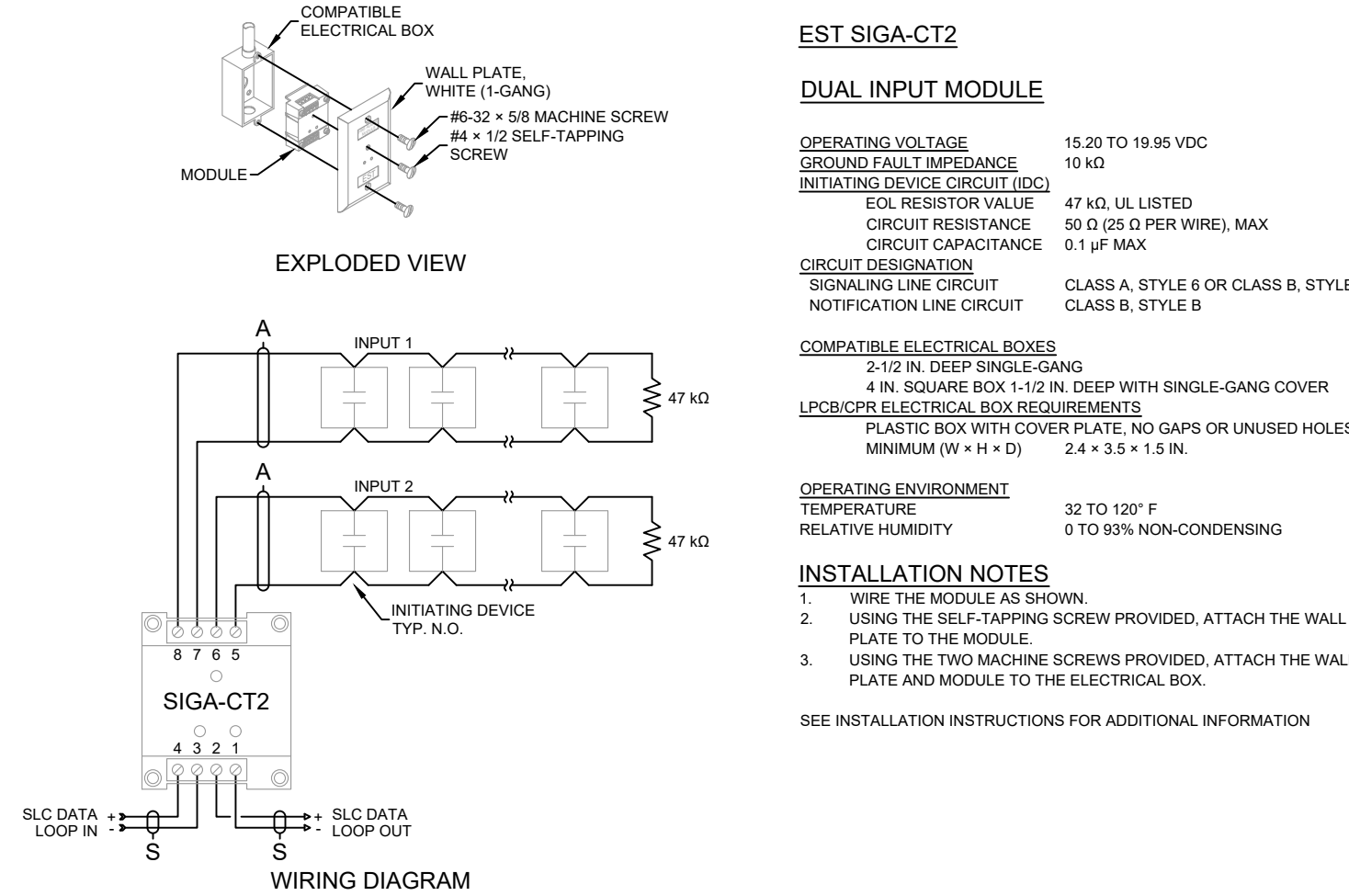
VESDA VEP WIRING DETAIL



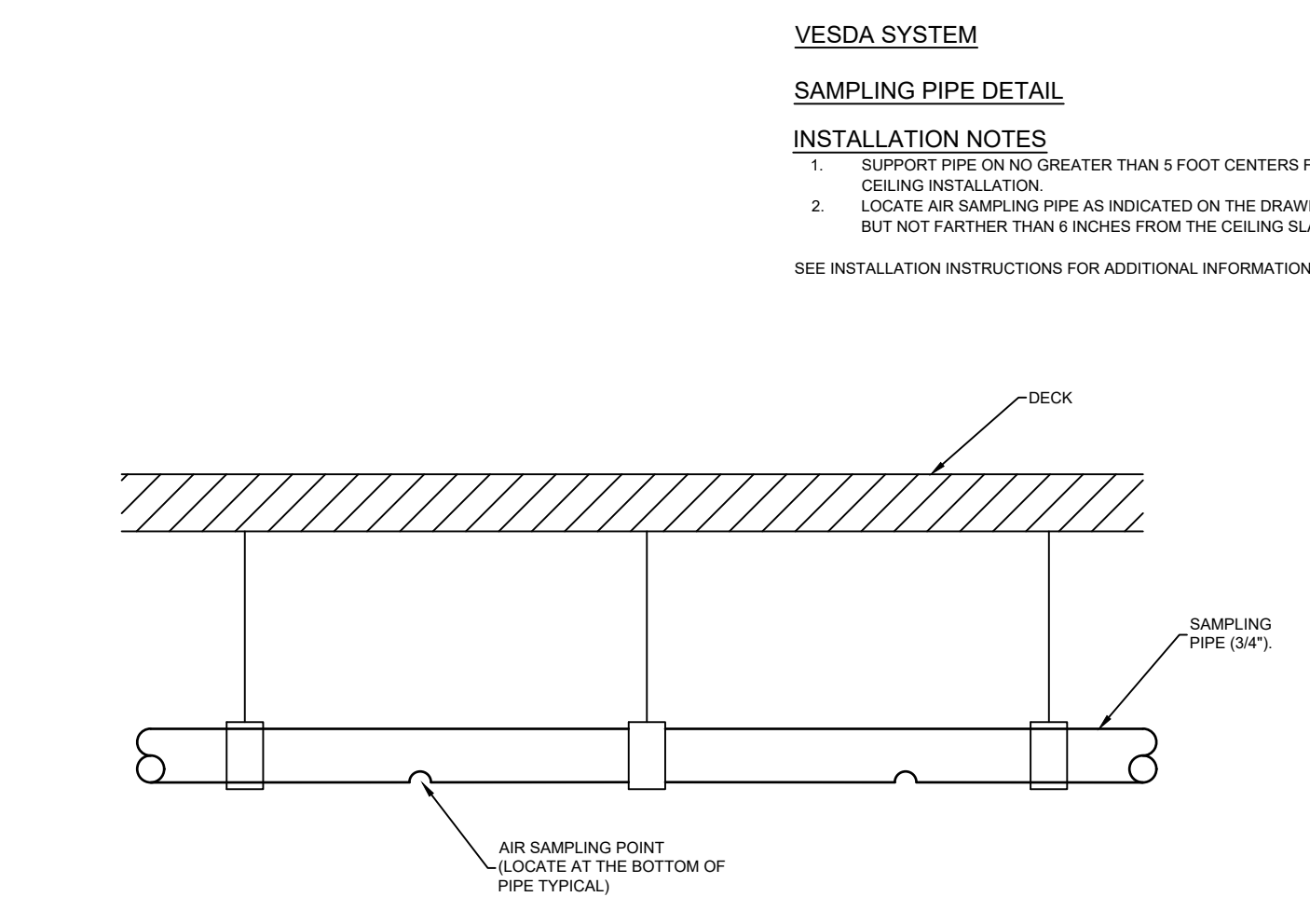
VESDA-E VEP - MOUNTING DETAIL



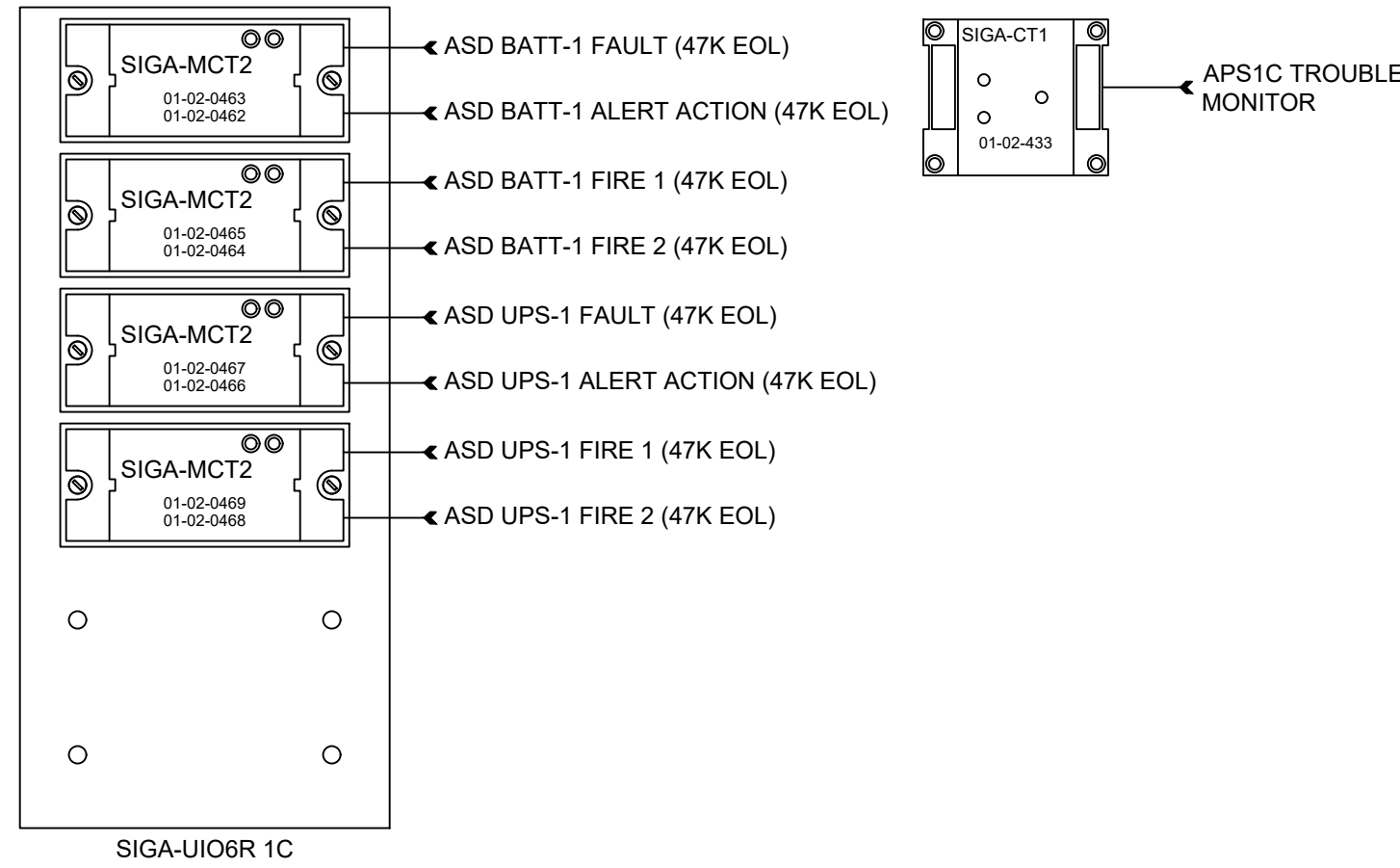
CONTROL RELAY MODULE - WIRING DIAGRAM  
EST SIGA-CR



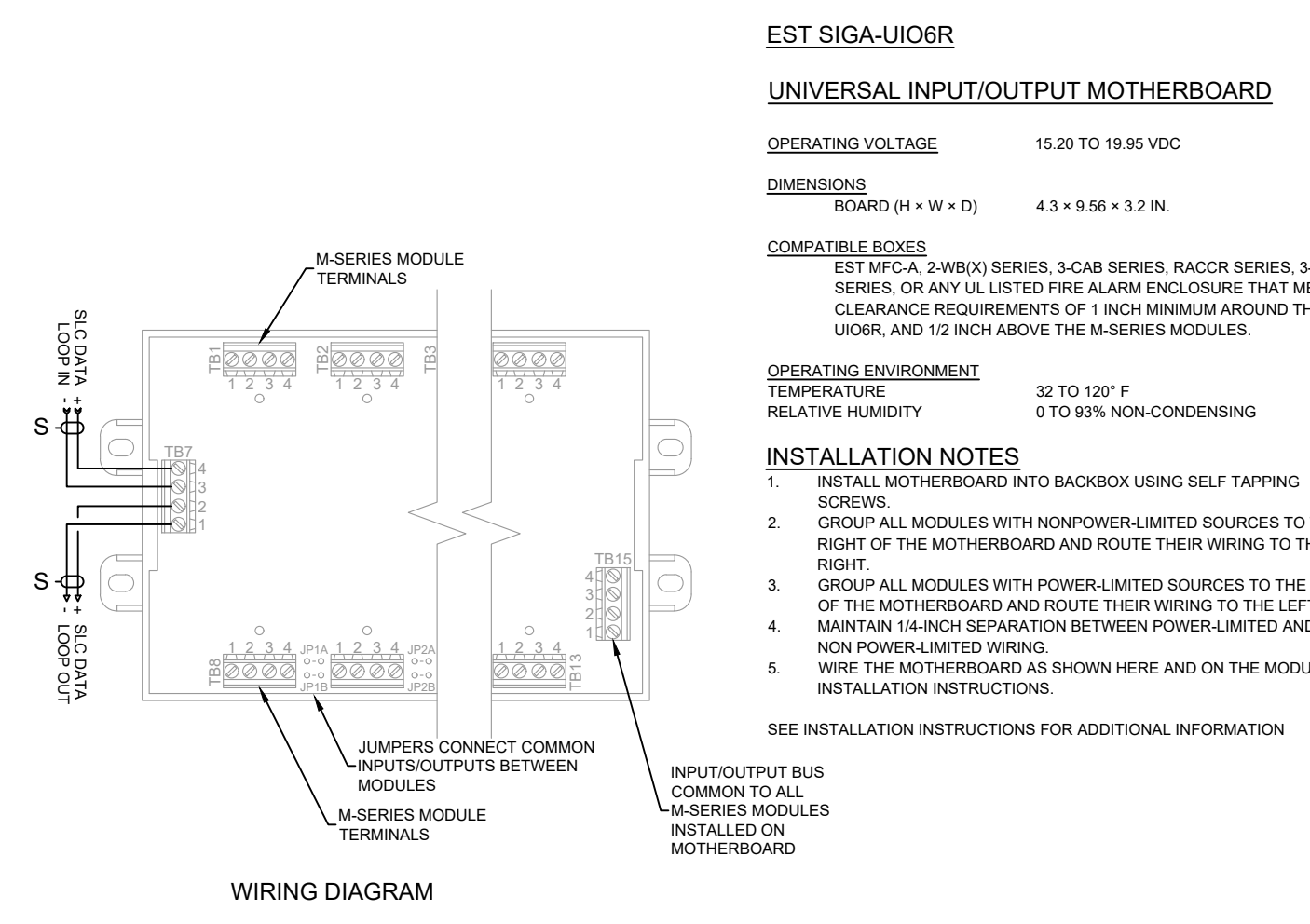
DUAL INPUT MODULE - WIRING DIAGRAM  
EST SIGA-CT2



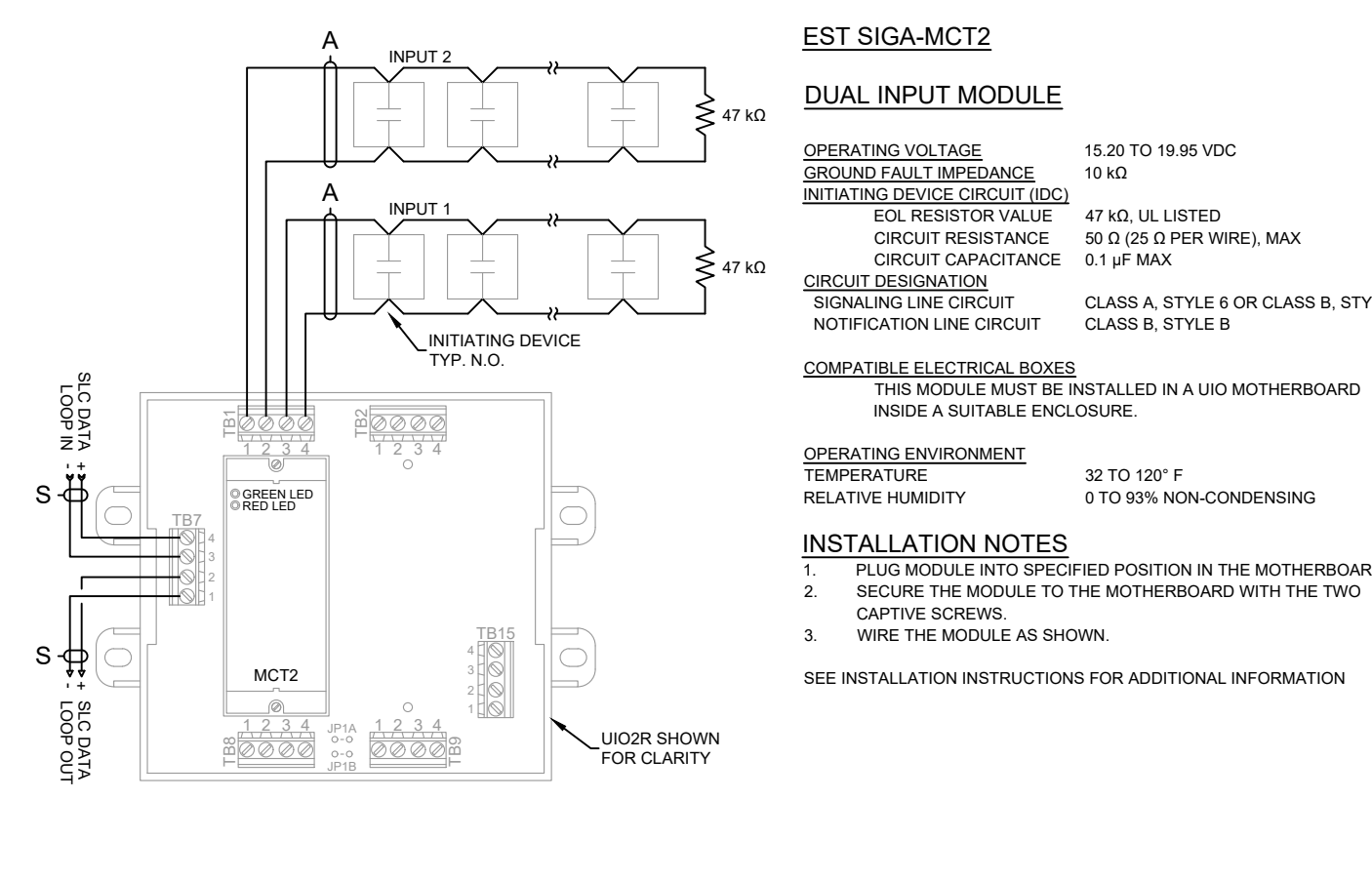
VESDA - SAMPLING PIPE DETAIL



LEVEL 1 - UIO6R 1C  
AP51C



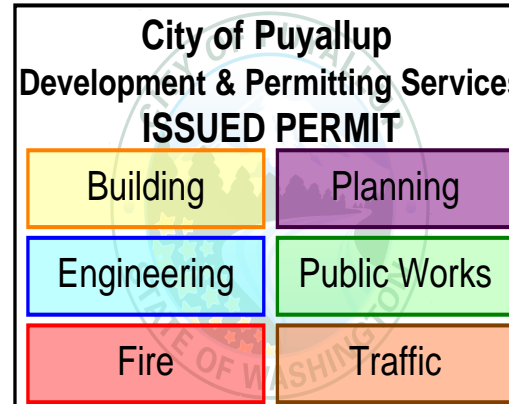
UNIVERSAL INPUT/OUTPUT MOTHERBOARD - WIRING DIAGRAM  
EST SIGA-UIO6R



DUAL INPUT MODULE - WIRING DIAGRAM  
EST SIGA-MCT2

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 (%)	20%			
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-CC15	SIGNAL MODULE WITH STROBE SYNC	1	0	0	6	6
NAC/AUX OUTPUTS						
CKT. #	TYPE	DESCRIPTION	SUPV. CURRENT (mA)	ALARM CURRENT (mA)		
			TOTAL	TOTAL		
1	AUX. POWER	VESDA POWER (EXISTING)	1440	1620		
2	AUX. POWER	VESDA POWER (EXISTING)	1440	1620		
3	AUX. POWER	VESDA POWER (EXISTING)	960	1080		
4	AUX. POWER	VESDA POWER (NEW)	734	800		
SUBTOTAL SUPERVISORY CURRENT (AMPS):			4.784			
TOTAL SUPERVISORY CURRENT WITH STANDBY (AMPS):			19.136			
SUBTOTAL ALARM CURRENT (AMPS):			5.536			
TOTAL ALARM CURRENT WITH ALARM RING TIME (AMPS):			0.461			
SPARE CAPACITY:			20%			
TOTAL AMP HOUR REQUIRED (AMPS):			23.517			
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					CABLE PROPERTIES			
NOMINAL STARTING VOLTAGE (Vdc)		19.7	LOAD FACTOR (LF)		0.59	WIRE GAUGE (AWG)		14
MINIMUM DEVICE VOLTAGE (Vdc)		16	VOLTAGE W/LOAD FACTOR (VDC)		19.228	Ω PER 1K FEET (OHMS)		3.07
TOTAL SUPERVISORY CURRENT (AMPS)		0.734	TOTAL ALARM CURRENT (AMPS)		0.800			
PART #	DEVICE	QTY	STANDBY CURRENT (mA)		ALARM CURRENT (mA)			
			EACH	TOTAL	EACH	TOTAL		
VEP-A00-1P	VESDA-E, ASPIRATOR @ FIXED RPM	2	367	734	400	800		



REV	JOB - DESCRIPTION	DATE	BY
-	ISSUED FOR PERMIT	10/21/2025	JU

DRAWN BY:	JACOB U.
PROJECT DESIGNER:	JACOB U.
PROJECT MANAGER:	CHARITY P.
JOB NUMBER:	1001-20250191
SCALE:	AS SHOWN
DATE:	10/17/2025

CENTRIS - SOUTH HILL DATACENTER  
FIRE REPAIR & NEW BATTERY RM  
1023 39TH AVE SE  
PUYALLUP, WA 98374

DEVICE DETAILS &  
CALCULATIONS  
FIRE ALARM SYSTEM

DRAWING:  
FA-4-1