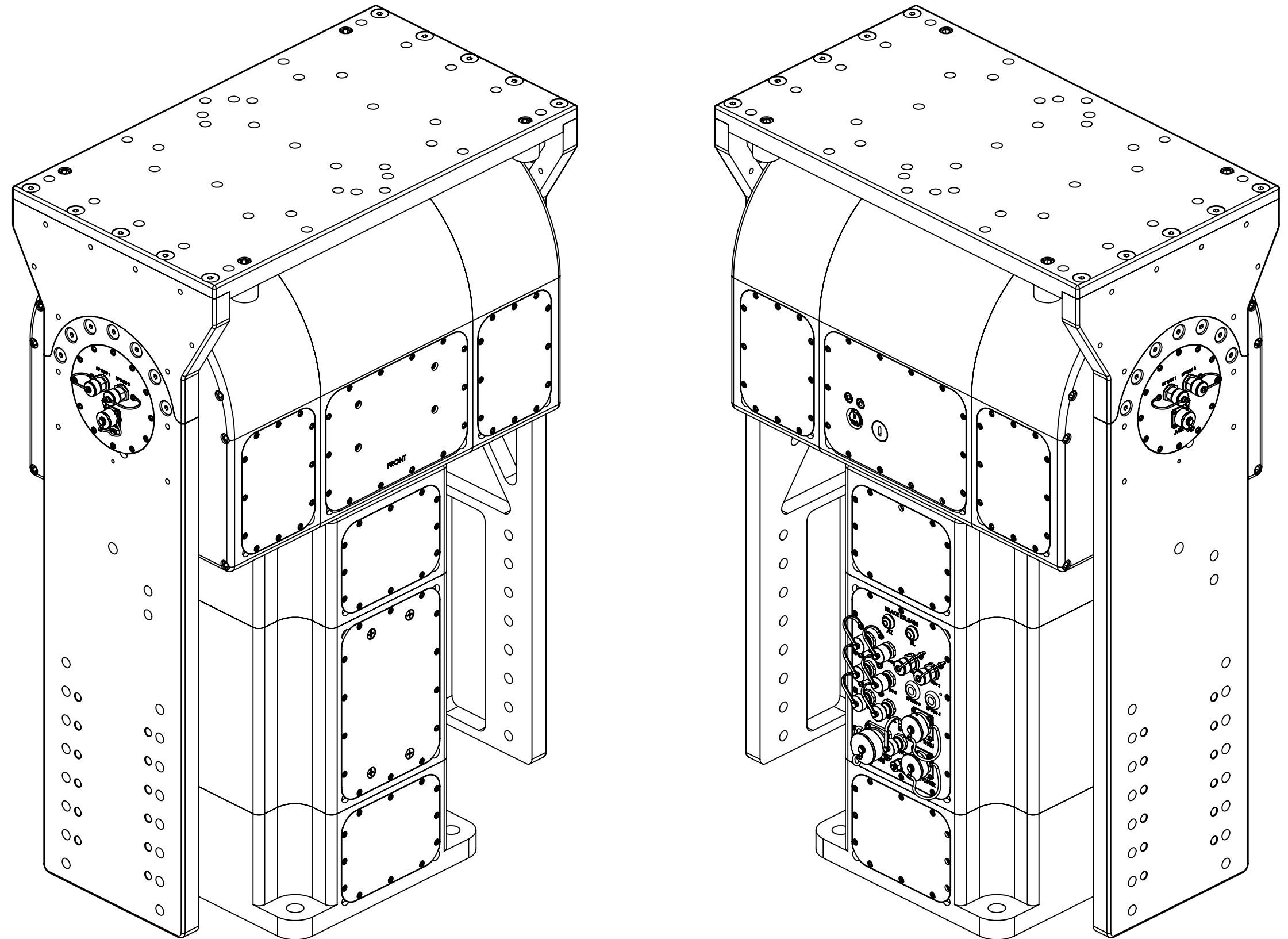


REV	DESCRIPTION	DATE	APPROVED
D	CN601133	2022-08-09	CLC

NOTES: UNLESS OTHERWISE SPECIFIED

- LINKALIGN-360MPT-50 CONFIGURABLE OPTIONS PER TABLE I. SHOWN WITH COUNTERWEIGHTS ON SHEET 7. LINKALIGN-360MPT-50 SUPPLIED WITH 150 LBS OF COUNTERWEIGHTS (EQUIVALENT TO 300 FT-LBS OF TORQUE)
- USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500170
- SEE TABLE II FOR AVAILABLE LINKALIGN-360MPT-50 ACCESSORY OPTIONS
- 48VDC, 1000W POWER SUPPLY (INDOOR RATED POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING)
- EXTERNAL CONSTRUCTION COMPRISED OF HARD COAT ANODIZE ALUMINUM WITH STAINLESS STEEL HARDWARE
- 600° (+/-300°) AZIMUTH TRAVEL WITH 10°/SEC DRIVE RATE (NO LOAD)
- 180° (+/-90°) ELEVATION TRAVEL WITH 10°/SEC DRIVE RATE (NO LOAD)
- 22° TO 140°F (-30° TO 60°C) OPERATIONAL TEMPERATURE RANGE. -40° TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
- 0.01° FEEDBACK RESOLUTION IN ALL AXES
- AZIMUTH AND ELEVATION BACKLASH LESS THAN 0.1°
- 36.80" (93.5 cm) HIGH X 25.40" (64.5 cm) WIDE X 13.90" (35.3 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
- WEIGHT APPROXIMATELY 455 LBS (206 kg) INCLUDING 150 LBS (68 kg) OF COUNTERWEIGHTS
- PAYLOAD SHALL NOT EXCEED 500 LB (159 kg) (INCLUDING COUNTERWEIGHTS) OR 250 FT-LBS OF NET TORQUE ABOUT THE ELEVATION AXIS. EFFORT SHOULD BE MADE TO BALANCE ELEVATION PAYLOAD AS MUCH AS POSSIBLE BY USING THE (6) 25 LB COUNTERWEIGHTS PROVIDED. TO CALCULATE TORQUE, TAKE THE DISTANCE FROM THE PAYLOAD CENTER OF GRAVITY TO DATUM -B- IN FEET AND MULTIPLY BY THE PAYLOAD WEIGHT. CUSTOM CONFIGURATIONS AVAILABLE UPON REQUEST
- TABLE TOP MOUNTING HOLES
- CENTER OF GRAVITY 0.1" (.3 cm) IN THE X-DIRECTION, 15.3" (38.9 cm) IN THE Y-DIRECTION AND 0" IN THE Z-DIRECTION
- CONNECT SUPPLIED ANEMOMETER TO J8 LABELED "EXT I/O 2". POSITIONER AUTOMATICALLY STOWS AT USER SPECIFIED WIND SPEED
- RF PASS THRU COMPRISED OF ONE 35" (90 cm) DC-3GHz N-TYPE FEMALE TO N-TYPE FEMALE CABLE
- SIGNAL PASS THRU WIRES ABLE TO CARRY UP TO 60 VAC / 75 VDC, 2A
- ETHERNET PASS THRU TRANSMITS 100M / 1000M baseT SIGNAL (GIGABIT ETHERNET)
- PASS THRU CONNECTORS MAY BE CUSTOMIZED UPON REQUEST
- SAFETY FEATURES INCLUDE FAIL SAFE MOTOR BRAKES WITH MANUAL RELEASE, STOW PINS AND EMERGENCY STOP BUTTON

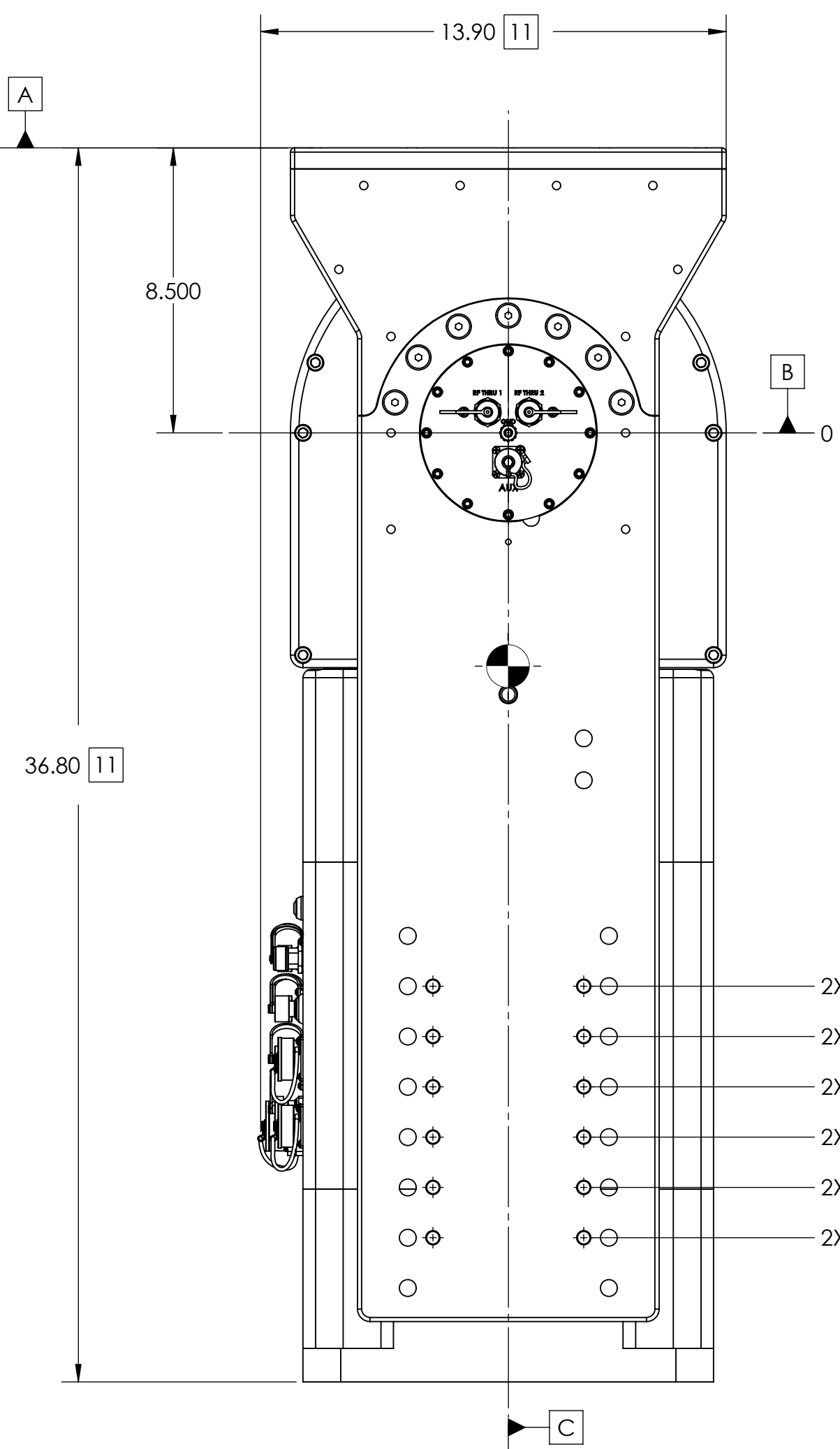
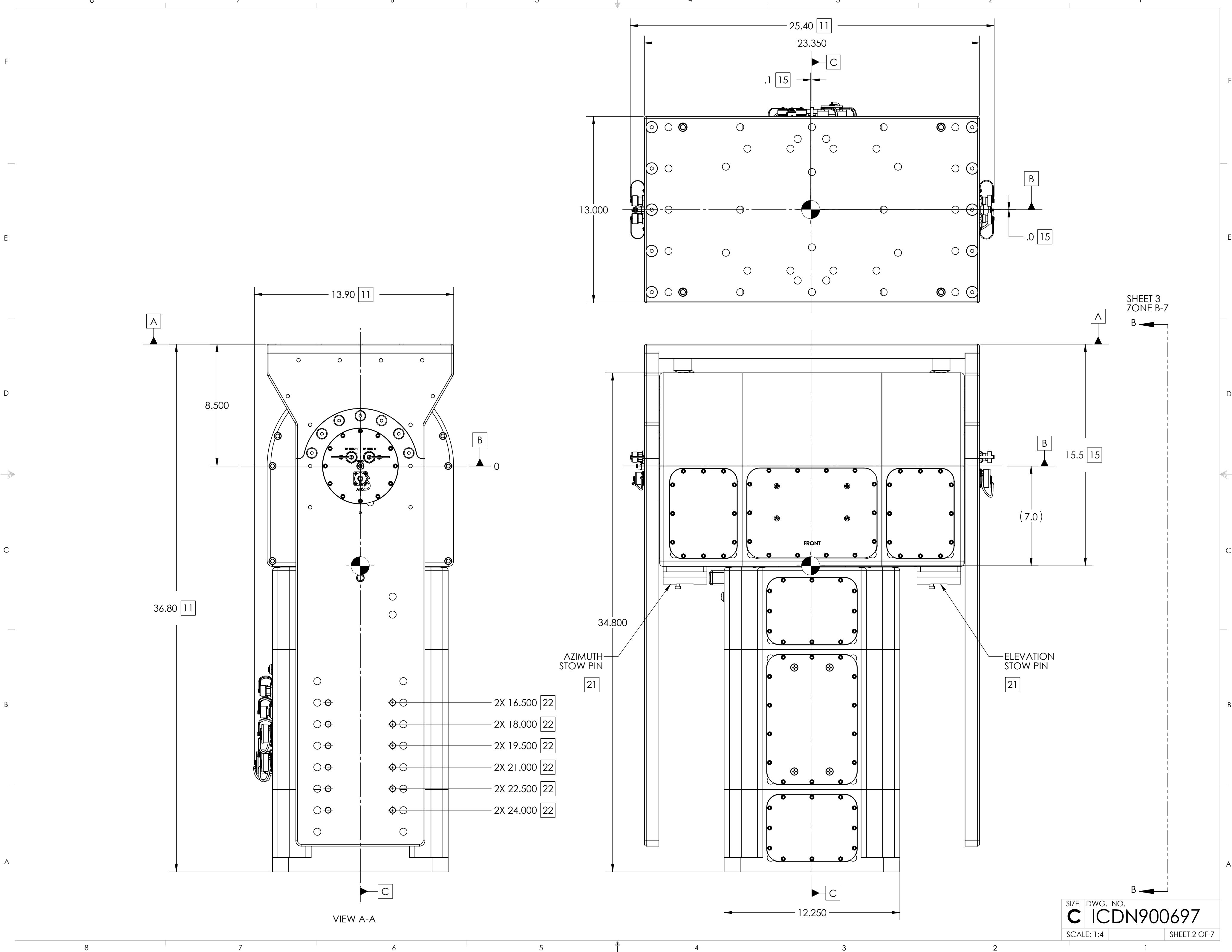


NOTES CONTINUED ON SHEET 7

TABLE I	
BUILDING A PART NUMBER	STANDARD OPTIONS
LA-360MPT - 50 - 100	<<EXAMPLE
	SHIELDED ETHERNET CABLE STANDARD LENGTHS
	050 = 50 ft
	100 = 100 ft
	150 = 150 ft
	200 = 200 ft
	250 = 250 ft
	300 = 300 ft
	XXX = Custom length in feet
	XXXC = Add "C" to end of cable length for unterminated mating connector
	CUSTOM CONFIGURATION
	= Standard options - leave blank
	MOTOR DRIVES AND PAYLOAD
	50 = Az/EI Travel @ 10°/s, Net EI Torque 250 ft-lbs, 500 lb payload (Including Counterweights.) Typically paired with 1-2.4 meter
	MODEL
	LA-360MPT = LinkAlign-360MPT (See motor drives and payload section for positioner travel range info)

TABLE II (ACCESSORY OPTIONS)		
ACCESSORY DESCRIPTION	ACCESSORY PART NUMBER	ACCESSORY ICD
CROSS ELEVATION DRIVE ASSEMBLY KIT, MPT-5X	ACC-N900652-1	ICDN900652

SYMBOL KEY <input type="checkbox"/> NOTE <input type="checkbox"/> PL ITEMS PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NEXTMOVE TECHNOLOGIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEXTMOVE TECHNOLOGIES IS PROHIBITED. NEXTMOVE TECHNOLOGIES, LLC HOLLIS, NH 03049 www.nextmove.tech.com	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLE ± 5 DEGREES TWO PLACE DECIMAL ±.030 THREE PLACE DECIMAL ±.010 INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION DO NOT SCALE DRAWING	DRAWN C. CHEYNE 2019-09-25 CHECKED S. CHEYNE 2019-09-25 ME APPR. C. CHEYNE 2019-09-25 EE APPR.	NEXTMOVE TECHNOLOGIES TITLE: LINKALIGN-360MPT-5X INTERFACE CONTROL DRAWING	
		PART NO. SEE TABLE I	SIZE DWG. NO. C ICDN900697	REV D
		SCALE: 1:5		SHEET 1 OF 7

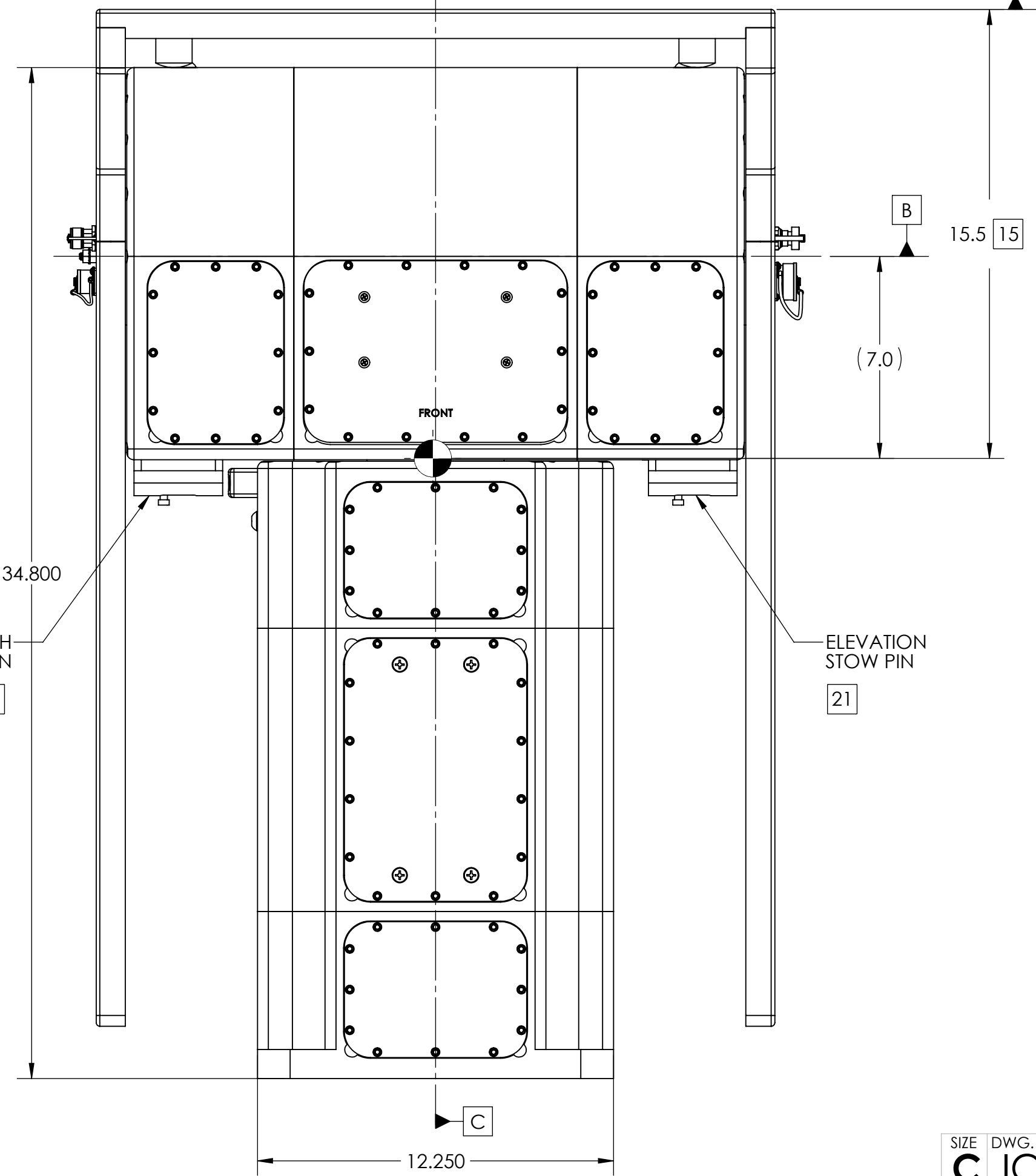
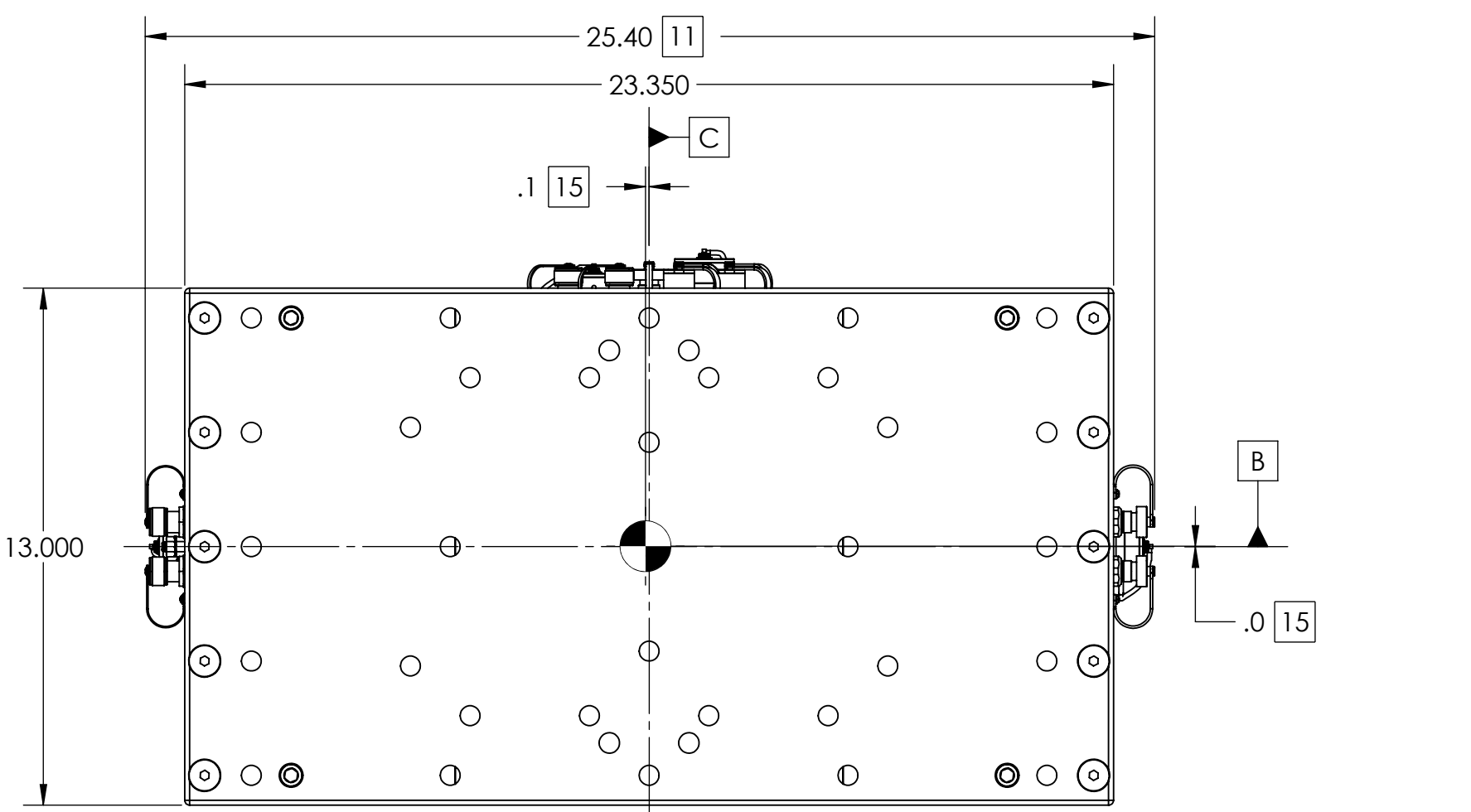


VIEW A-A

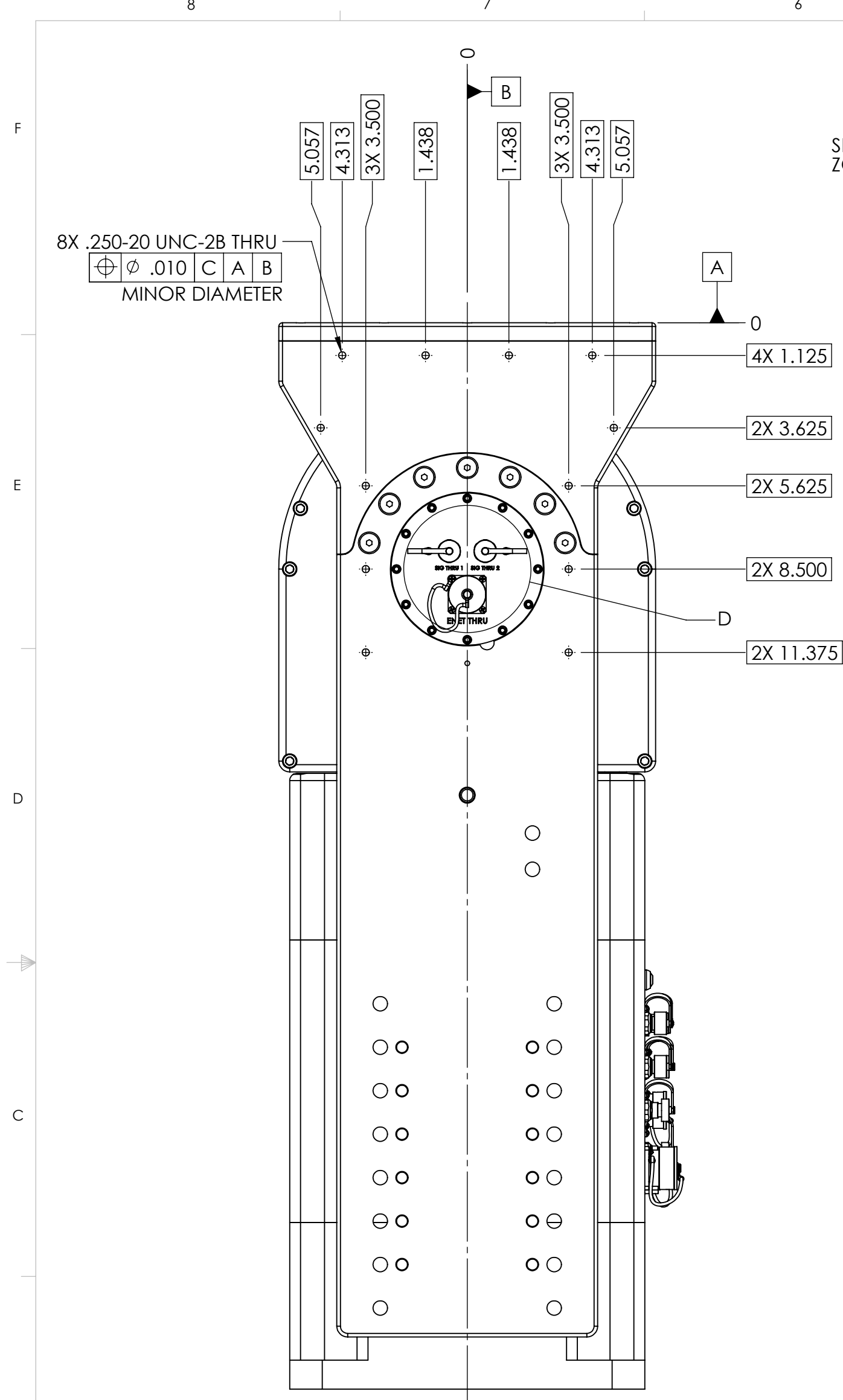
- 2X 16.500 (22)
- 2X 18.000 (22)
- 2X 19.500 (22)
- 2X 21.000 (22)
- 2X 22.500 (22)
- 2X 24.000 (22)

AZIMUTH STOW PIN (21)

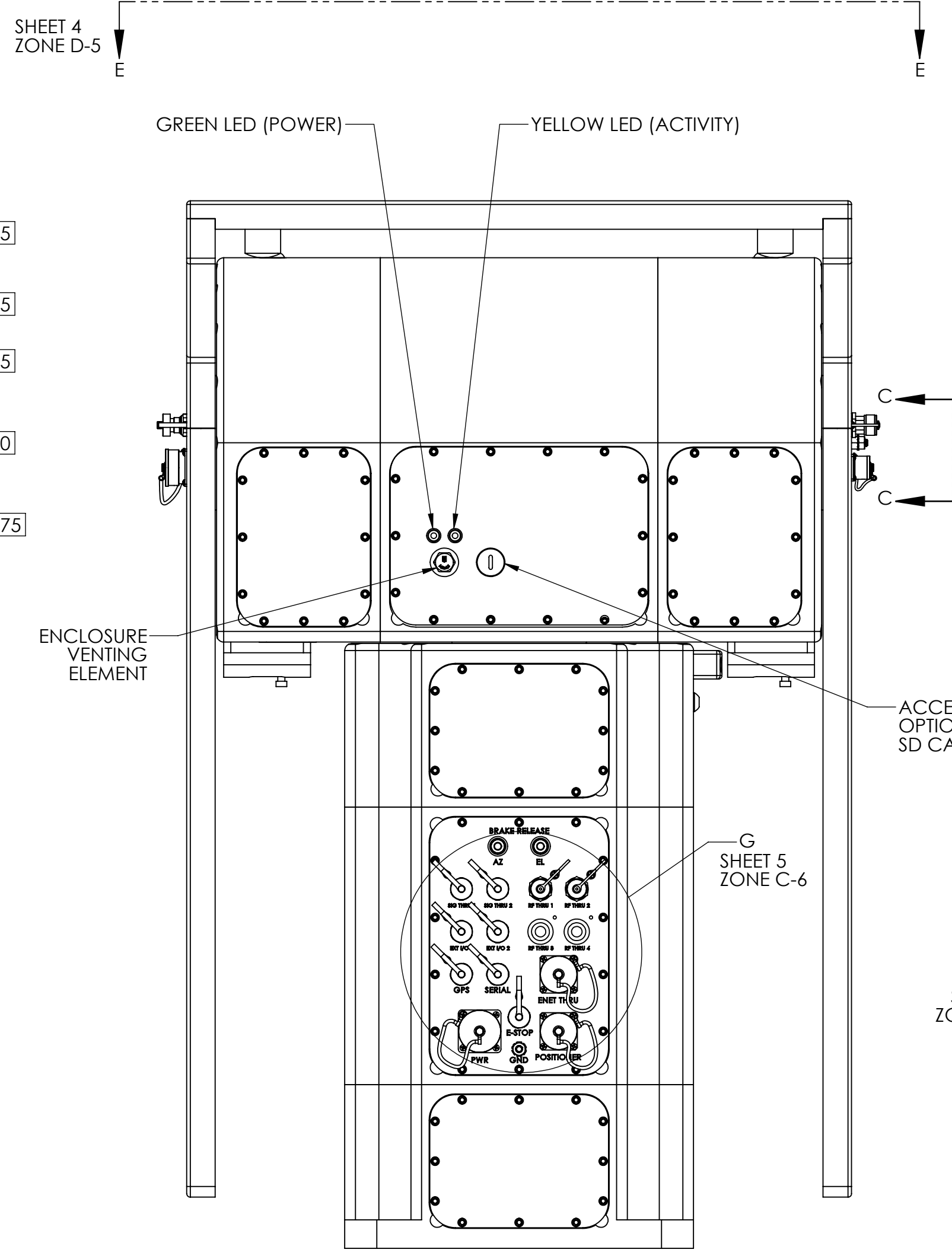
ELEVATION STOW PIN (21)



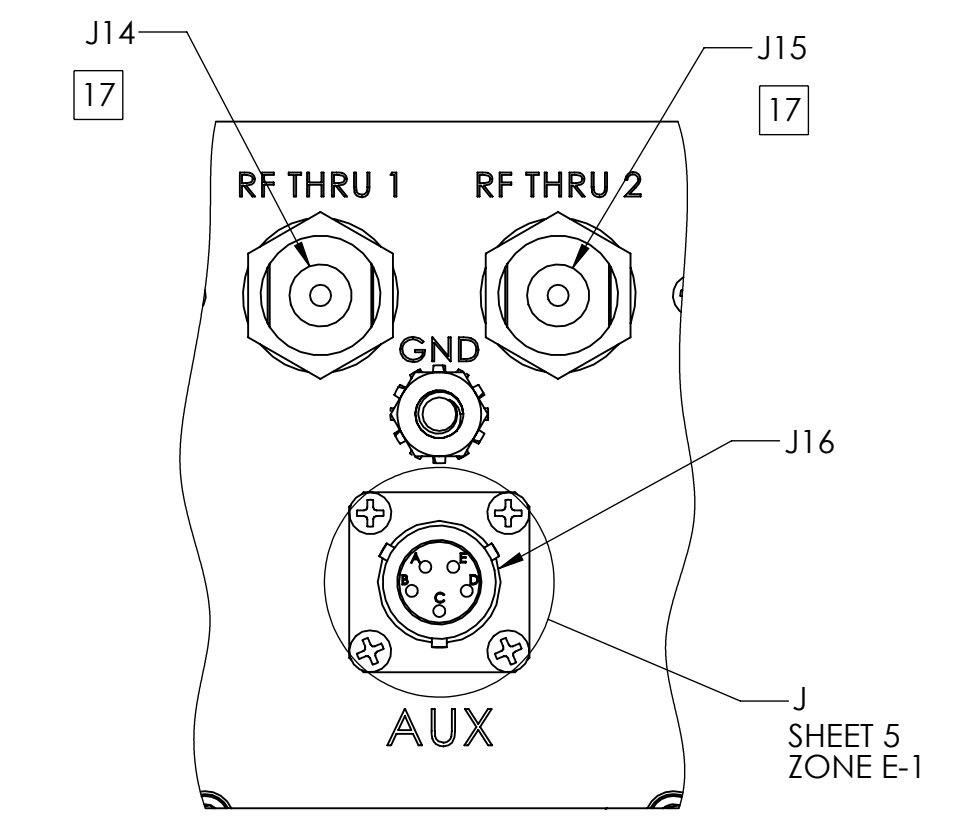
SHEET 3
ZONE B-7



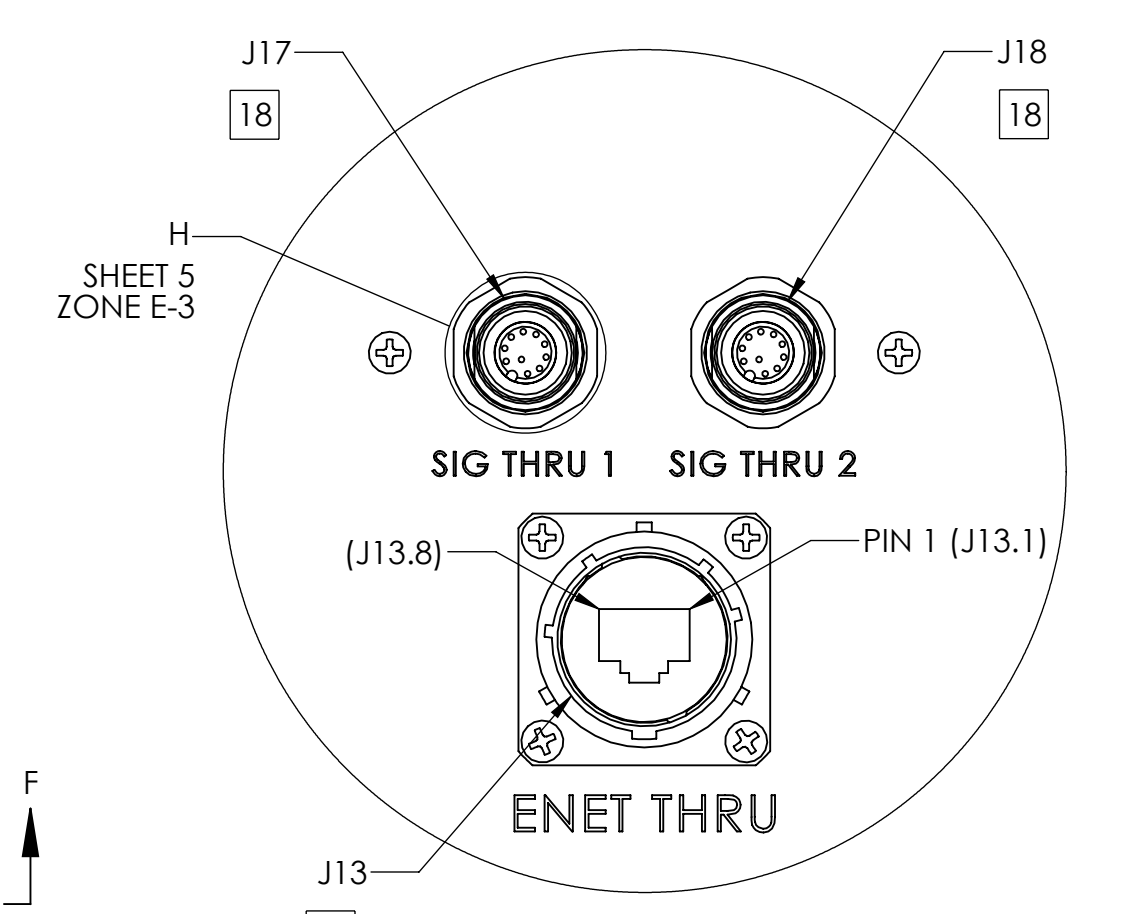
VIEW B-B
SHEET 2
ZONE E-1
BOTH SIDES



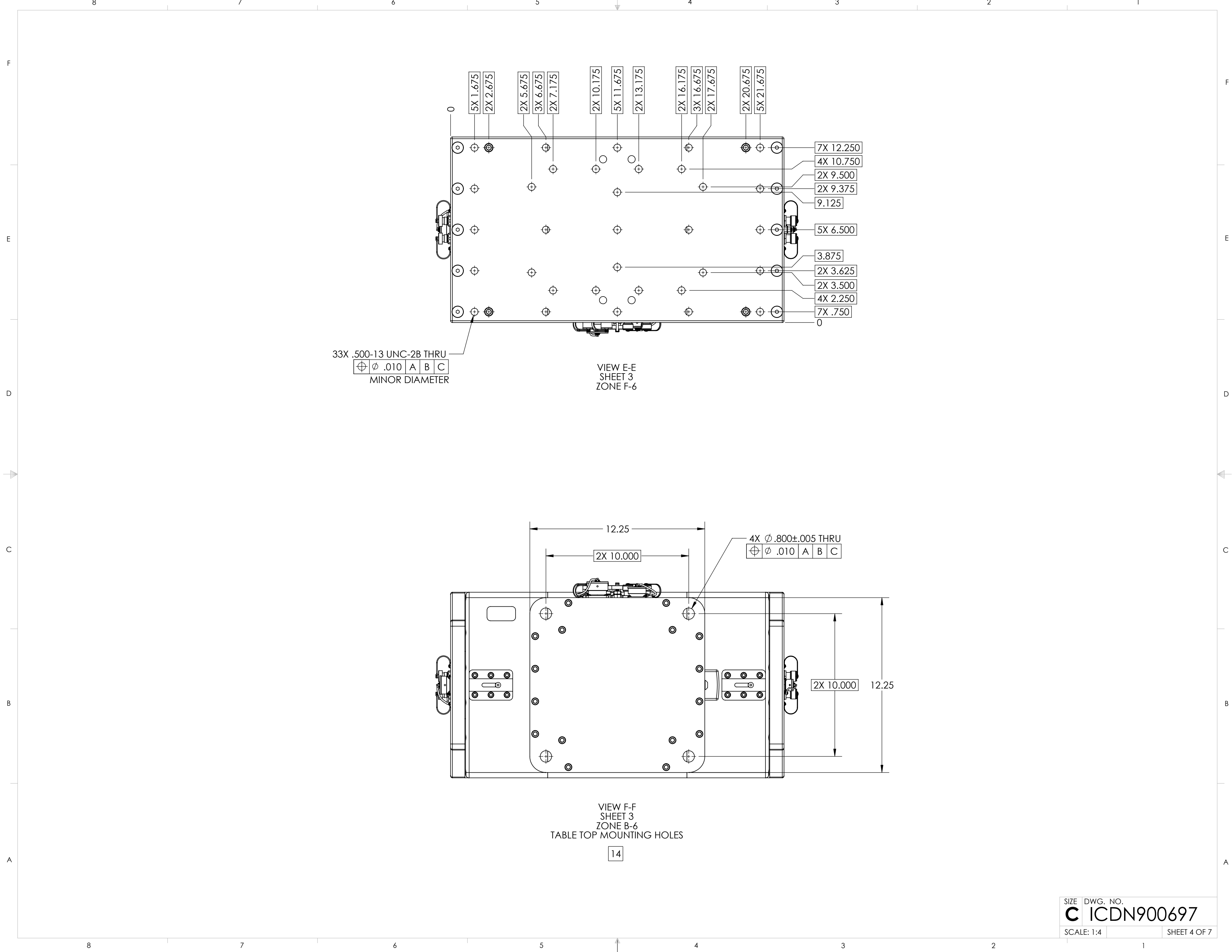
SHEET 4
ZONE A-5



VIEW C-C
SCALE 1 : 1
SHOWN WITHOUT PROTECTIVE CAPS
SEE TABLE IX FOR J14 & J15 CONNECTOR PINOUT DETAILS



DETAIL D
SCALE 1 : 1
SHOWN WITHOUT PROTECTIVE COVERS
SEE TABLE IX FOR J13 CONNECTOR PINOUT DETAILS

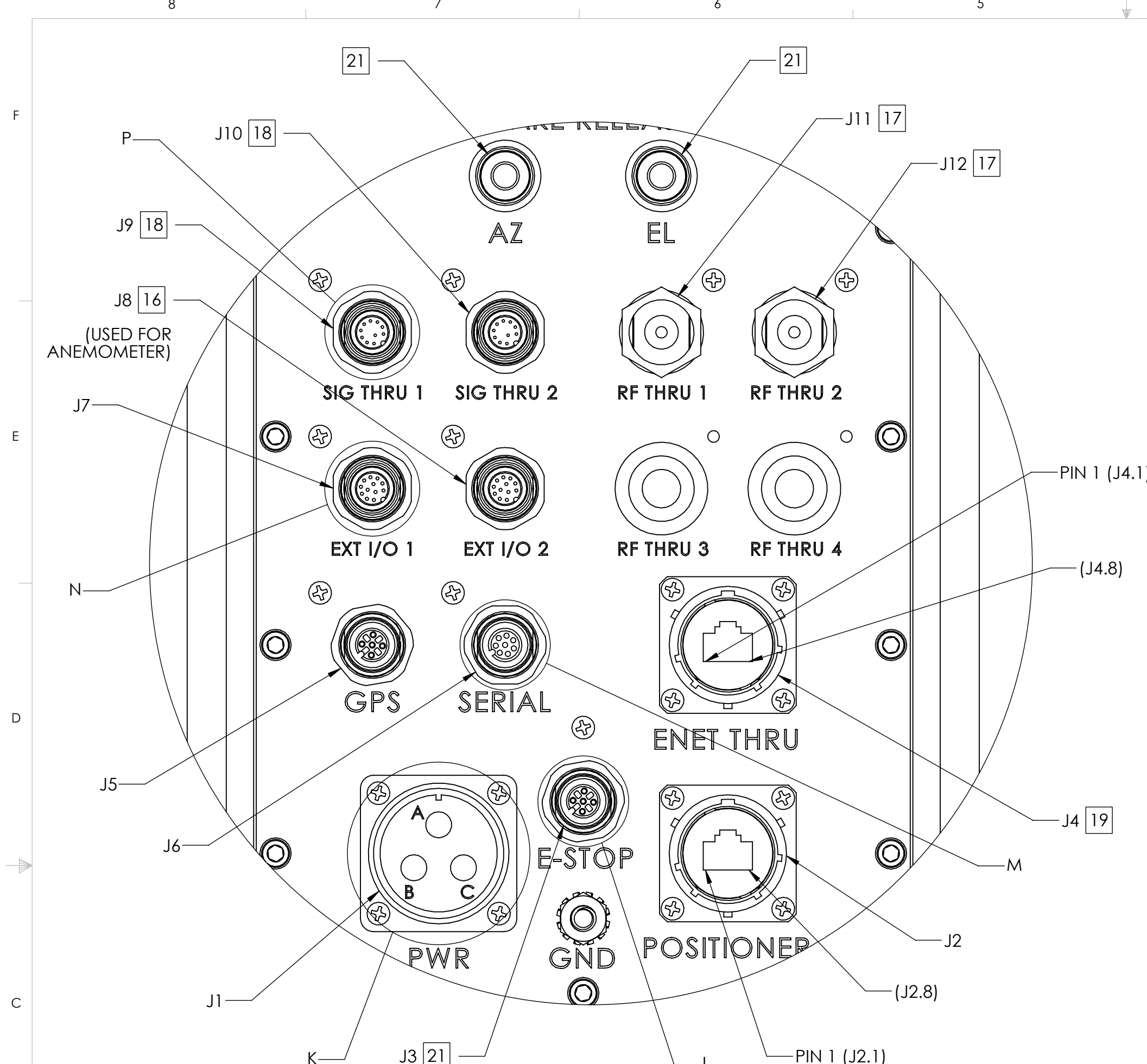


33X .500-13 UNC-2B THRU
 $\varnothing .010$ A B C
 MINOR DIAMETER

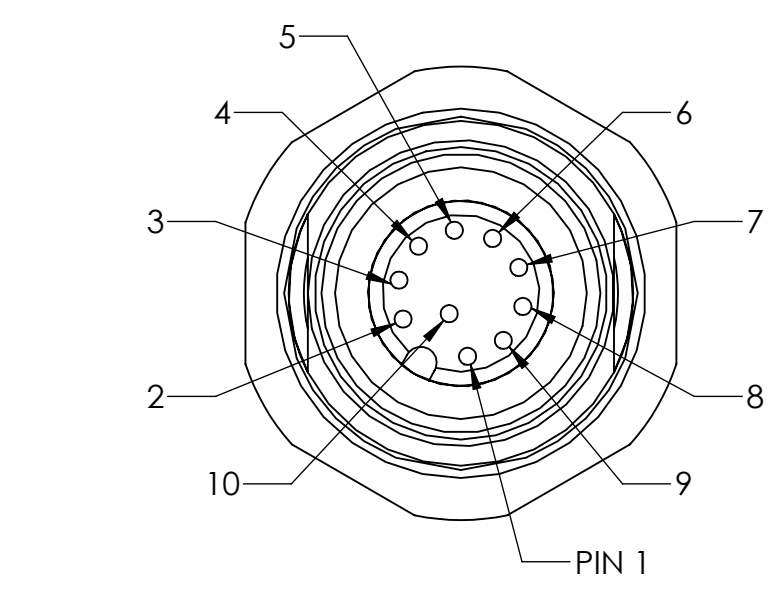
VIEW E-E
 SHEET 3
 ZONE F-6

VIEW F-F
 SHEET 3
 ZONE B-6
 TABLE TOP MOUNTING HOLES

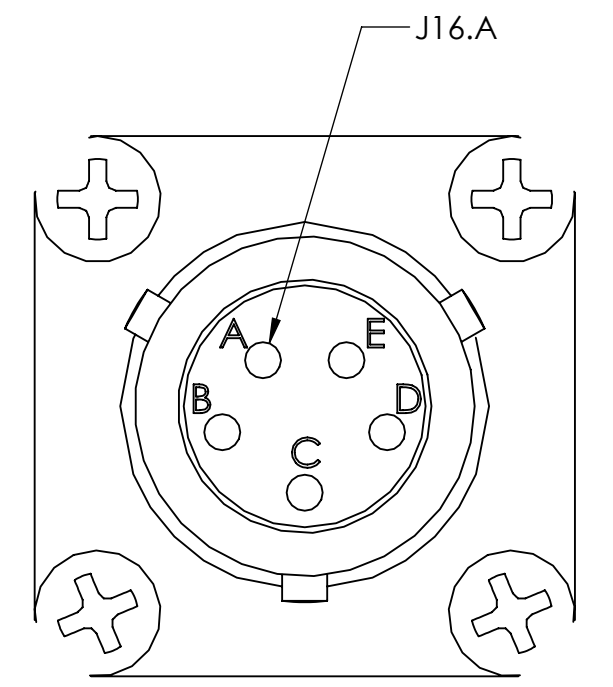
14



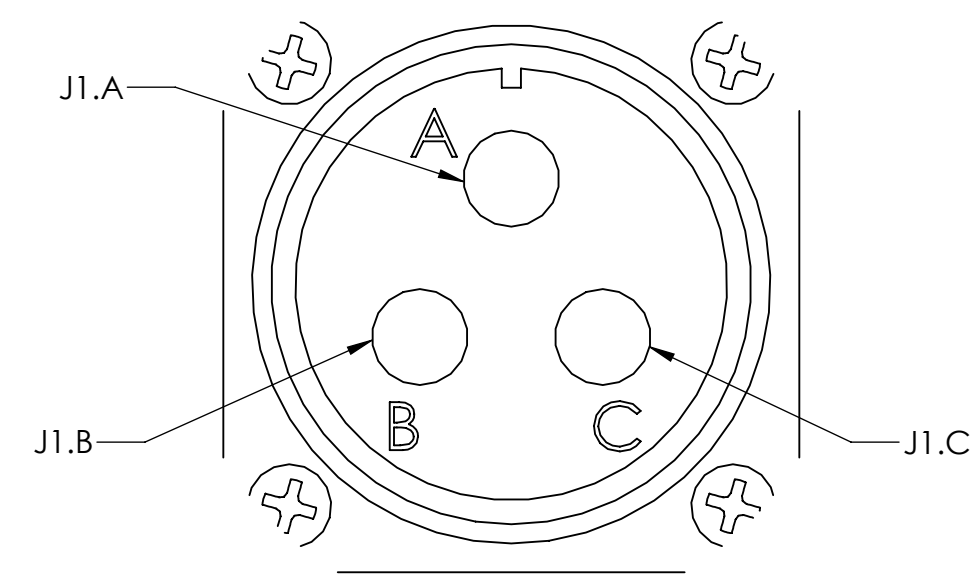
DETAIL G
SCALE 1 : 1
SHEET 3
ZONE C-4
SHOWN WITHOUT PROTECTIVE CAPS



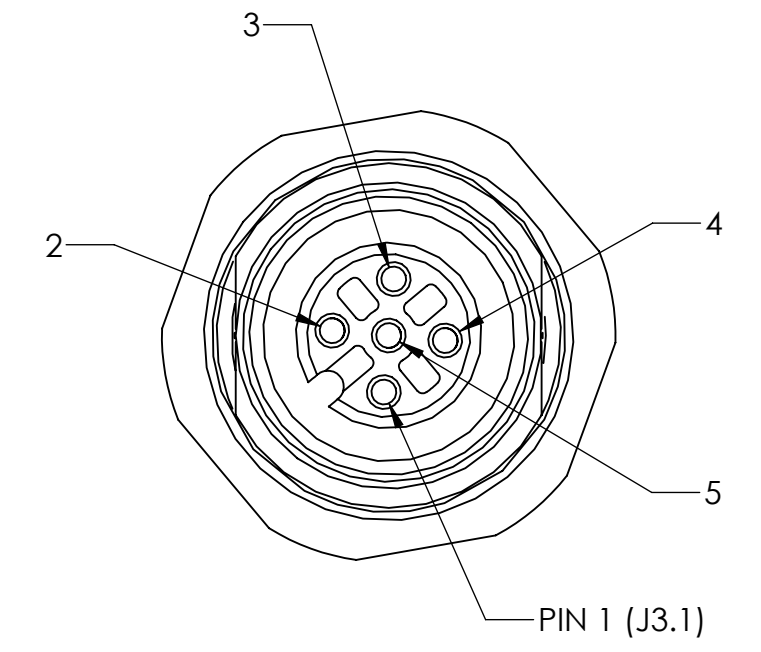
J17 & J18 SHOWN FROM MATING SIDE
MATES WITH TURCK P/N RS 10T-* (* LENGTH IN METERS)
DETAIL H
SCALE 3 : 1
SHEET 3
ZONE C-3
SEE TABLE IX FOR CONNECTOR PINOUT DETAILS



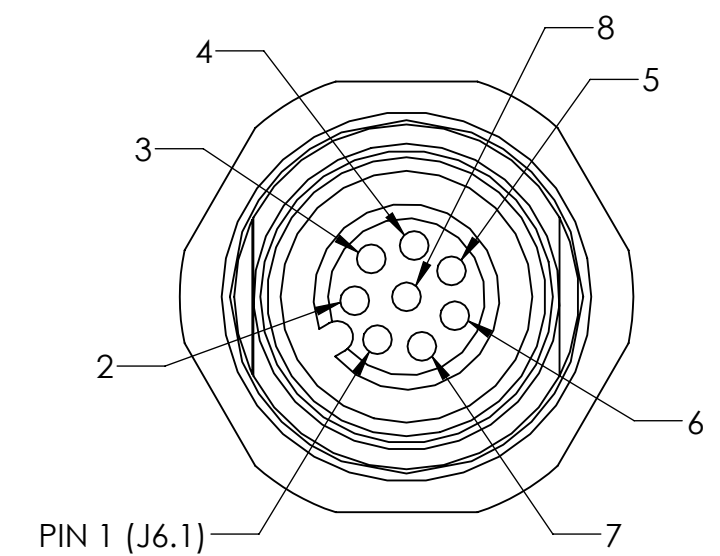
J16 CONNECTOR SHOWN FROM MATING SIDE
AMPHENOL P/N PT02E-10-5S
DETAIL J
SCALE 3 : 1
USED FOR OPTIONAL CROSS ELEVATION ACCESSORY
SEE TABLE II FOR ACCESSORY DETAILS
SEE TABLE VII FOR CONNECTOR PINOUT DETAILS



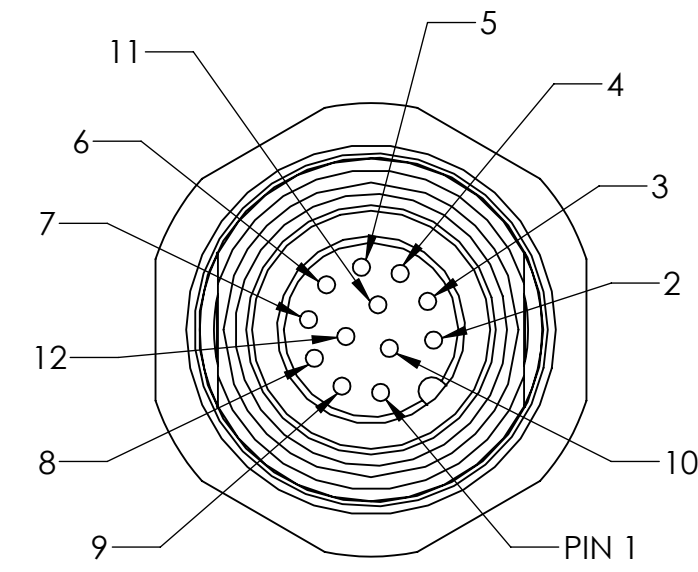
J1 CONNECTOR SHOWN FROM MATING SIDE
AMPHENOL P/N MS3102E20-19P
DETAIL K
SCALE 2 : 1
SEE TABLE III FOR CONNECTOR PINOUT DETAILS



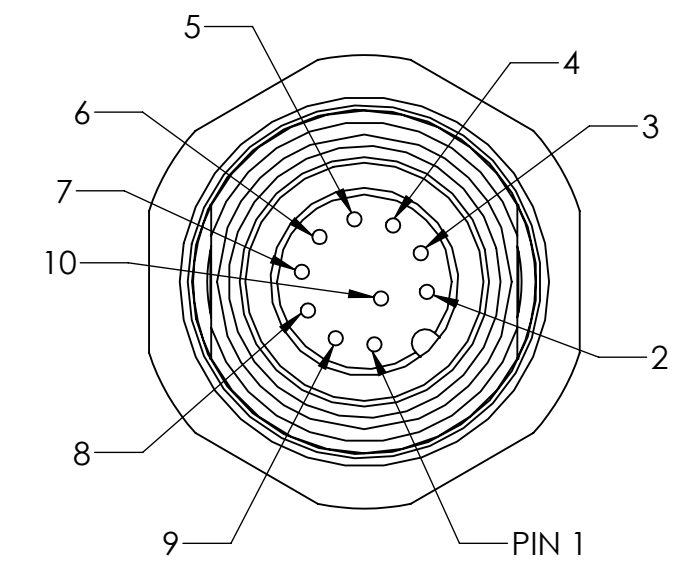
J3 CONNECTOR SHOWN FROM MATING SIDE
MATES WITH TURCK P/N RS 4.5-T-* (* LENGTH IN METERS)
DETAIL L
SCALE 3 : 1
SEE TABLE V FOR CONNECTOR PINOUT DETAILS



J6 CONNECTOR SHOWN FROM MATING SIDE
MATES WITH TURCK P/N RS 8-T-* (* LENGTH IN METERS)
DETAIL M
SCALE 3 : 1
SEE TABLE VI FOR CONNECTOR PINOUT DETAILS



J7 & J8 CONNECTORS SHOWN FROM MATING SIDE
MATES WITH TURCK P/N RK 12-T-* (* LENGTH IN METERS)
DETAIL N
SCALE 3 : 1
SEE TABLE VIII FOR CONNECTOR PINOUT DETAILS



J9 & J10 CONNECTOR SHOWN FROM MATING SIDE
MATES WITH TURCK P/N RK 10-T-* (* LENGTH IN METERS)
DETAIL P
SCALE 3 : 1
SEE TABLE IX FOR CONNECTOR PINOUT DETAILS

CONNECTOR DESIGNATION	FUNCTION
J1.A	P48V_RTN
J1.B	P48V
J1.C	GND

CONNECTOR DESIGNATION	FUNCTION
J2.1	DATA PAIR 1
J2.2	DATA PAIR 1
J2.3	DATA PAIR 2
J2.4	+48-56VDC PoE POWER INPUT
J2.5	+48-56VDC PoE POWER INPUT
J2.6	DATA PAIR 2
J2.7	DC RETURN FOR PoE INPUT
J2.8	DC RETURN FOR PoE INPUT

CONNECTOR DESIGNATION	FUNCTION
J3.1	NOT USED
J3.2	E-STOP NC
J3.3	E-STOP COM
J3.4	E-STOP NO
J3.5	NOT USED

CONNECTOR DESIGNATION	FUNCTION
J6.1	5V
J6.2	GND
J6.3	12V
J6.4	GND
J6.5	RS232, UART4 Tx
J6.6	RS232, UART4 Rx
J6.7	RS232, UART5 Tx
J6.8	RS232, UART5 Rx

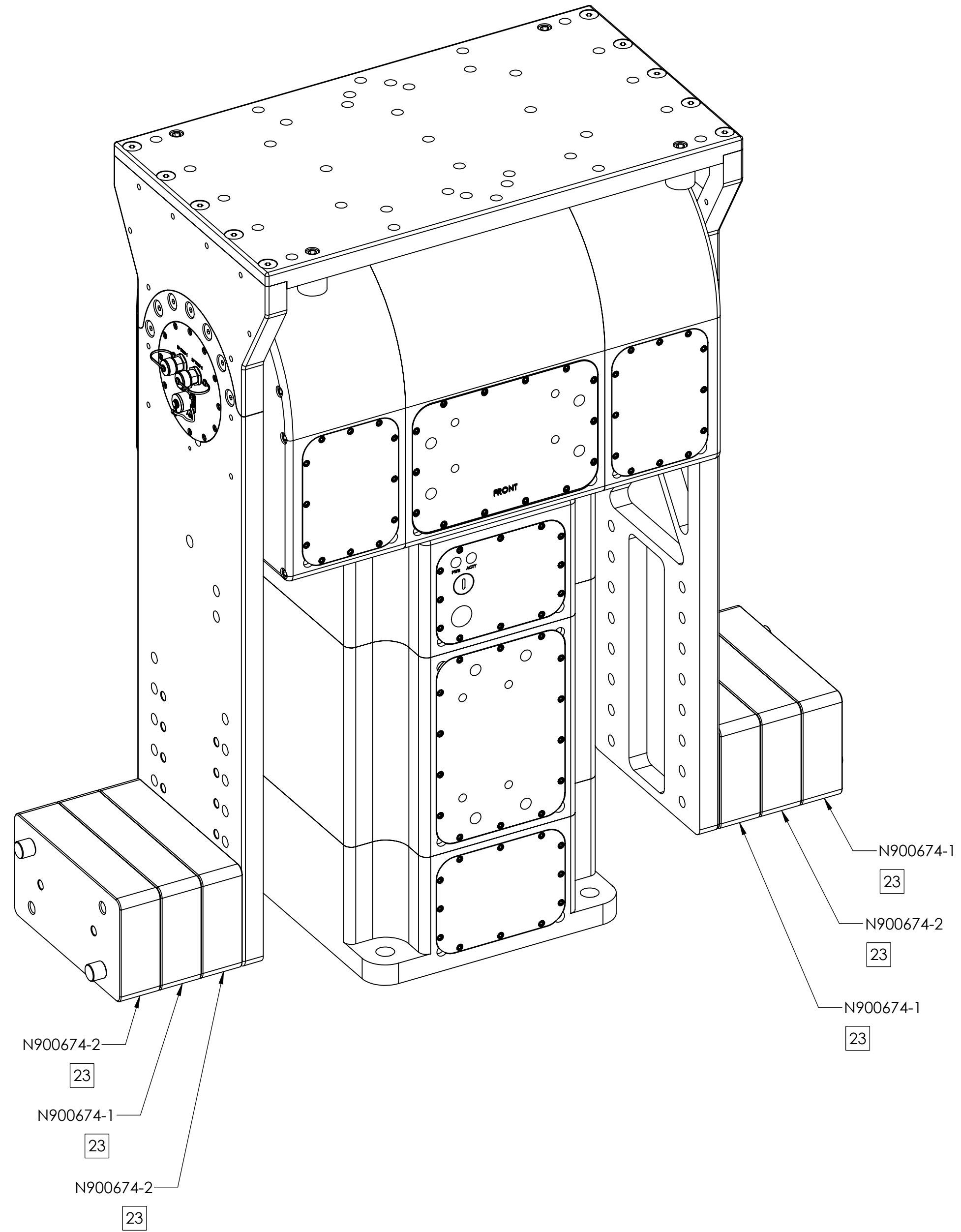
CONNECTOR DESIGNATION	FUNCTION
J16.A	GND
J16.B	MOTOR +
J16.C	MOTOR -
J16.D	POT WIPER
J16.E	+3.3V

CONNECTOR DESIGNATION	FUNCTION
J7.1	ADC_1+
J7.2	GND
J7.3	IN2, IN_GPIO_1_27
J7.4	IN1, IN_GPIO_1_16
J7.5	COM
J7.6	IN3, IN_GPIO_1_24
J7.7	OUT1, OUT_GPIO_1_15
J7.8	OUT4, OUT_GPIO_1_22
J7.9	ADC_1-
J7.10	OUT3, OUT_GPIO_1_21
J7.11	IN4, IN_GPIO_1_14
J7.12	OUT2, OUT_GPIO_1_17
J8.1	ADC_2+
J8.2	N/C
J8.3	VIN_12V
J8.4	N/C
J8.5	N/C
J8.6	N/C
J8.7	N/C
J8.8	N/C
J8.9	ADC_2-/GND
J8.10	N/C
J8.11	N/C
J8.12	N/C

FROM	TO
J4.1	J13.1
↓	↓
J4.8	J13.8
J9.1	J17.1
↓	↓
J9.10	J17.10
J10.1	J18.1
↓	↓
J10.10	J18.10
J11.1	J14.1
J12.1	J15.1

NOTES CONTINUED:

- 22 COUNTERWEIGHTS SHOWN AT MAXIMUM ADDITIONAL ELEVATION TORQUE OF 500 FT-LBS TO ADJUST ELEVATION TORQUE COUNTERWEIGHT LOCATIONS MAY BE ADJUSTED USING MOUNTING HOLES ON ELEVATION ARM. SEE DIMENSIONS ON VIEW A-A (SHEET 2) TO CALCULATE TORQUE VALUES AT RESPECTIVE MOUNTING HOLE LOCATIONS
- 23 COUNTERWEIGHTS MUST ALTERNATE FROM N900674-1 TO N900674-2 OR VICE VERSA WHEN COUNTERWEIGHTS ARE STACKED TOGETHER



SHOWN WITH COUNTERWEIGHTS

22