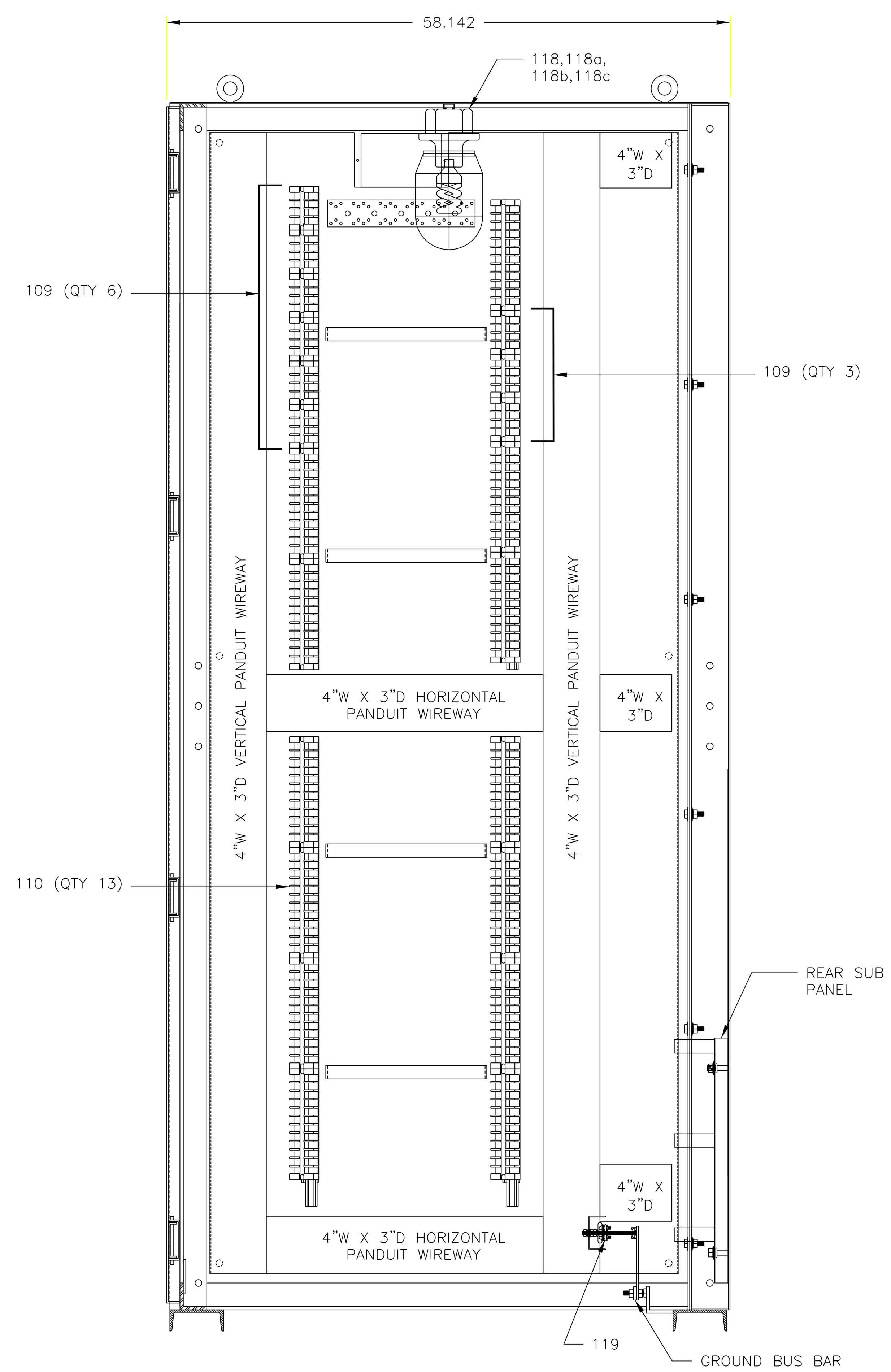
NAMEPLATE LIST					TEXT
NO.	FIRST LINE	SECOND LINE	THIRD LINE	SIZE	HEIGHT
N1	PNL XX - CIP			1/2 X 10"	1/2"
N1A	GPS CLOCK			1 X 5"	1/2"
N2	ANNUNCIATOR			1 X 5"	1/2"
N4	SEE DETAIL "A"	SHEET 2		1 1/2 x 5"	5/32"
N5	SEE DETAIL "B"	SHEET 2		1 1/2 x 5"	5/32"
N6	SEE DETAIL "C"	SHEET 2		1 1/2 x 5"	5/32"
N7	HMI			1 X 5"	1/2"
N8	KEYBOARD			1 X 5"	1/2"
N8A	COMM PROCESSOR			1 X 5"	1/2"
N15	SERVER			1 X 5"	1/2"
N16	SECURITY GATEWAY			1 X 5"	1/2"
N17	PORT SERVER			1 X 5"	1/2"
N9	ETHERNET # 1			1 X 5"	1/2"
N10	ETHERNET # 2			1 X 5"	1/2"
N11	ETHERNET # 3			1 X 5"	1/2"

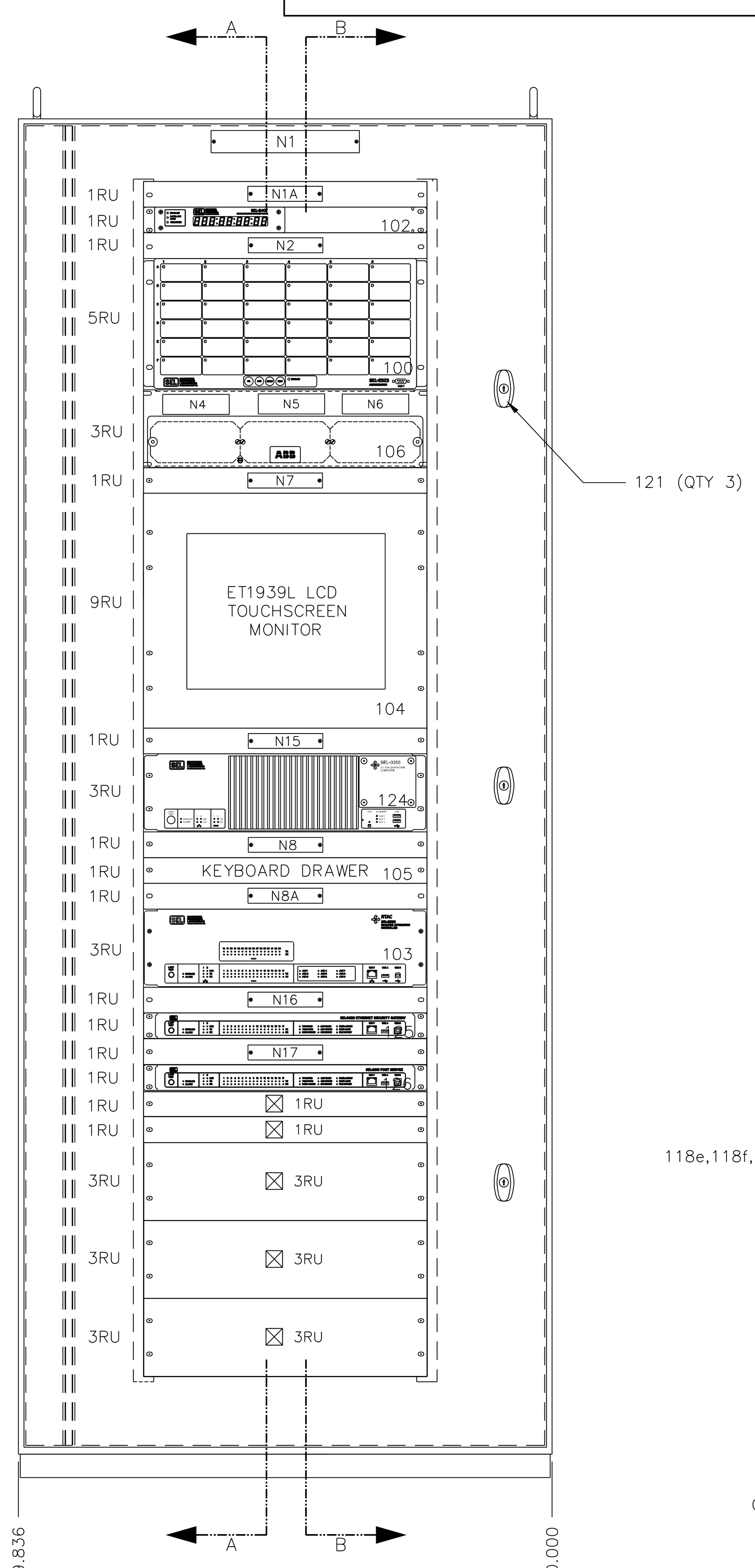
UNLESS OTHERWISE NOTED:
-NAMEPLATE MOUNTING SHALL BE VIA S/S PAN HEAD SCREWS.
-TEST SWITCH NAMEPLATES SHALL BE MOUNTED WITH DOUBLE ADHESIVE TAPE.
-COLOR SHALL BE BLACK WITH WHITE TEXT.

NAMEPLATE LIST - CONT.					TEXT
NO.	FIRST LINE	SECOND LINE	THIRD LINE	SIZE	HEIGHT
N13	DFR COMPUTER			1 X 5"	1/2"
N14	DFR ETHERNET			1 X5"	1/2"
N15	DFR-DAU			1 X5"	1/2"
N16	SEE DETAIL "D"	SHEET 2		1 1/2 X 5"	5/32"
N17	SEE DETAIL "E"	SHEET 2		1 1/2 X 5"	5/32"
N18	SEE DETAIL "F"	SHEET 2		1 1/2 X 5"	5/32"
N1B	PNL XX - CIP			1/2 X 10"	1/2"

BILL OF MATERIALS					
ITEM	DEVICE	STYLE NUMBER	QTY	MFR	DESCRIPTION
100[28]	ANN.	252301H13A0A0XX	1	SEL	SEL-2523 ANNUNCIATOR WITH COMMUNICATIONS; STANDARD FIRMWARE; 125/250 VDC OR VAC POWER SUPPLY; HORIZONTAL RACK MOUNT, 5U; 2 EIA-232 FRONT PORT, COMMUNICATION OPTIONS; STANDARD PLUS DNP 3.00 LEVEL 2 SLAVE, SERIAL COMMUNICATIONS PROTOCOLS; EIA-232 OR EIA-485 SERIAL COMMUNICATION AUXILLARY CARD; 125 VDC OR VAC CONTROL INPUT VOLTAGE; NONE CONFORMAL COATED CIRCUIT BOARDS.
101[29]	RTU-ES1, RTU-ES2, RTU-ES3, RTU-ES4	2730M0ARAA1111AAAAX0	3	SEL	ETHERNET SWITCH, MANAGED, RACK MOUNT, 125/250 VDC POWER SUPPLY A, 125/250 VDC POWER SUPPLY B, 16 10/100BASE-T PORTS 9-24, NO CONFORMAL COAT.
102[30]	GPS CLOCK	SEL-24070001B	1	SEL	CLOCK, SATELLITE SYNCHRONIZED, GPS ANTENNA (235-0113), 19" HORIZONTAL RACK MOUNT WITH BRACKET, TYPE SEL-2407
103[31]	RTAC	3530HA0D1323A0XXXXXX	1	SEL	125/250 VDC; 125/240 VAC, TWO 10/100 BASE-T, 8 OUTPUTS, 24 INPUTS; 125 VDC/VAC, HMI, 33 E1A-232/E1A485 SERIAL PORTS
104[32]		91610028	1	SEL	MONITOR, TOUCHSCREEN, 19", WITH A 19" RACK MOUNT BRACKET.
105[33]		91610050	1	SEL	KEYBOARD/DRAWER, USB, 19" RACK MOUNTED SLIDE OUT, WITH MOUSE.
106[34]	TS1, 2, 3-ANN/DFR	FRXG-001-001-001	2	ABB	TEST SWITCH, TYPE FT-19R, 3RU LO 30 POLE, 30 POTENTIAL 6 CURRENT SHORTING ARRANGED (P P P P P P P P P P) (P P P P P P P P P P) (P P P P P P P P P P)
109[36]		EB27B04S	9	G.E.	TERMINAL BLOCK, EB-27, 4 CIRCUIT SHORTING TYPE, 600 VOLT, 30 AMP.
110		EB25B12	29	G.E.	TERMINAL BLOCK, EB-25, 12 POINT, 600 VOLT, 30 AMP.
114[42]		F30A1S	2	MARATHON	FUSE BLOCK, 1-POLE, 30AMP, 250 VOLT, CLASS H.
114a[42]		NON6	2	BUSSMAN	FUSE, TYPE NON, ONE-TIME, CLASS H, 6A.
115[42a]		F30A1S	1	MARATHON	FUSE BLOCK, 1-POLE, 30AMP, 250 VOLT, CLASS H.
115a[42a]		NON15	1	BUSSMAN	FUSE, TYPE NON, ONE TIME, 15A.
116[43]		F30A2S	13	MARATHON	LAMP HOLDER, PLASTIC KEYLESS TO FIT ON 4 X 4 HANDY BOX. FOR USE WITH LIGHT GUARD.
116a[43]		NON10	24	BUSSMAN	FUSE, TYPE NON, ONE-TIME, CLASS H, 10A.
118[600]		RL8512	1	MFR.	LAMP HOLDER, PLASTIC KEYLESS TO FIT ON 4 X 4 HANDY BOX. FOR USE WITH LIGHT GUARD.
118a[600]		1465Y-SP	1	COOPER	GUARD, PLASTIC FOR LIGHT SOCKET.
118b[600]		FLE15HT3/2/827	1	G.E.	BULB, COMPACT FLUORESCENT,60 WATT, 120 VOLT.
118c[600]		QB0002	1	MFR.	HANDY BOX, GALVANIZED, 4 X 4, WITH 1/2" KNOCKOUTS, 1 1/2" DEEP. DRAWN
118d[600]		BZ-2RN702	1	HONEYWELL	DOOR SWITCH, PLUNGER TYPE, 15A @ 600 V.
118e[600]		CR151	1	HUBBELL	DUPLEX RECEPTACLE, 3-WIRE GROUNDING, 15A, 120 VAC, IVORY.
118f[600]		583611/2	1	T&B	HANDY BOX, DRAWN, GALVANIZED, 2 X 4, 1-7/8 DEPTH, WITH 1/2" KNOCKOUTS.
118g[600]		619	1	T&B	COVER PLATE, GALVANIZED FOR A SINGLE DUPLEX RECEPTACLE, TO FIT ON A 2 X 4 UTILITY BOX.
119[601]		OS1208-150B	1	VULCAN	STRIP HEATER, 150 WATTS, 8" LENGTH, 5/16" STEEL SHEATH, 240 VAC, 12.2 WATTS PER SQUARE INCH, GRAINGER STOCK NUMBER 4E259.
120[602]		4CZ52	1	HONEYWELL	THERMOSTAT, HEATING ONLY, SPST, CLOSES ON TEMPERATURE DROP, RANGE 50-80 DEGREES F, DUAL-DIAPHRAM TYPE, LINE VOLTAGE.
121		T305 CW	3	MFR.	HANDLE, "T" TYPE, LOCKING, SATIN CHROME
122	DFR/APP 501	APP-601-C501-00A-00E-W7	1	APP ENG.	COMPUTER, APP-501 DAU CHASSIS, INCLUDES: COMPUTER, POWER CABLE CAT5E ETHERNET CABLE, APP00037 6 AWG GROUND ASSEMBLY, 10 FOOT APP00088 PROGRAMMING CABLE WITH ADAPTER, SPARE HARD DRIVE, (3) SYSTEM INSTRUCTION MANUALS & DRAWINGS.
123	ETH. SWITCH	APP00751	1	APP ENG.	ETHERNET SWITCH, 24 COPPER PORTS, ALARMOUTPUT TERMINAL BLOCK AND DUAL 125 VDC POWER SUPPLY, LED'S ON FRONT AND PORTS ARE REAR FACING, 19" RACK MOUNT.
124	COMPUTER	3355#9JDB	1	SEL	INTEL i7 - 3612QE QUAD CORE 2.1GHZ; 8GB DDR 3 1333MHZ ECC MINIDIMM x 2, 60GB INDUSTRIAL GRADE SLC SSD X2
125	GATEWAY	3620XHA0XXX0	1	SEL	SEL-3620 ETHERNET SECURITY GATEWAY. (PROVIDED BY KEMCO)
126	PORT SERVER	3610XHA0XXX0	1	SEL	SEL-3610 SERIAL PORT SERVER. (PROVIDED BY KEMCO)



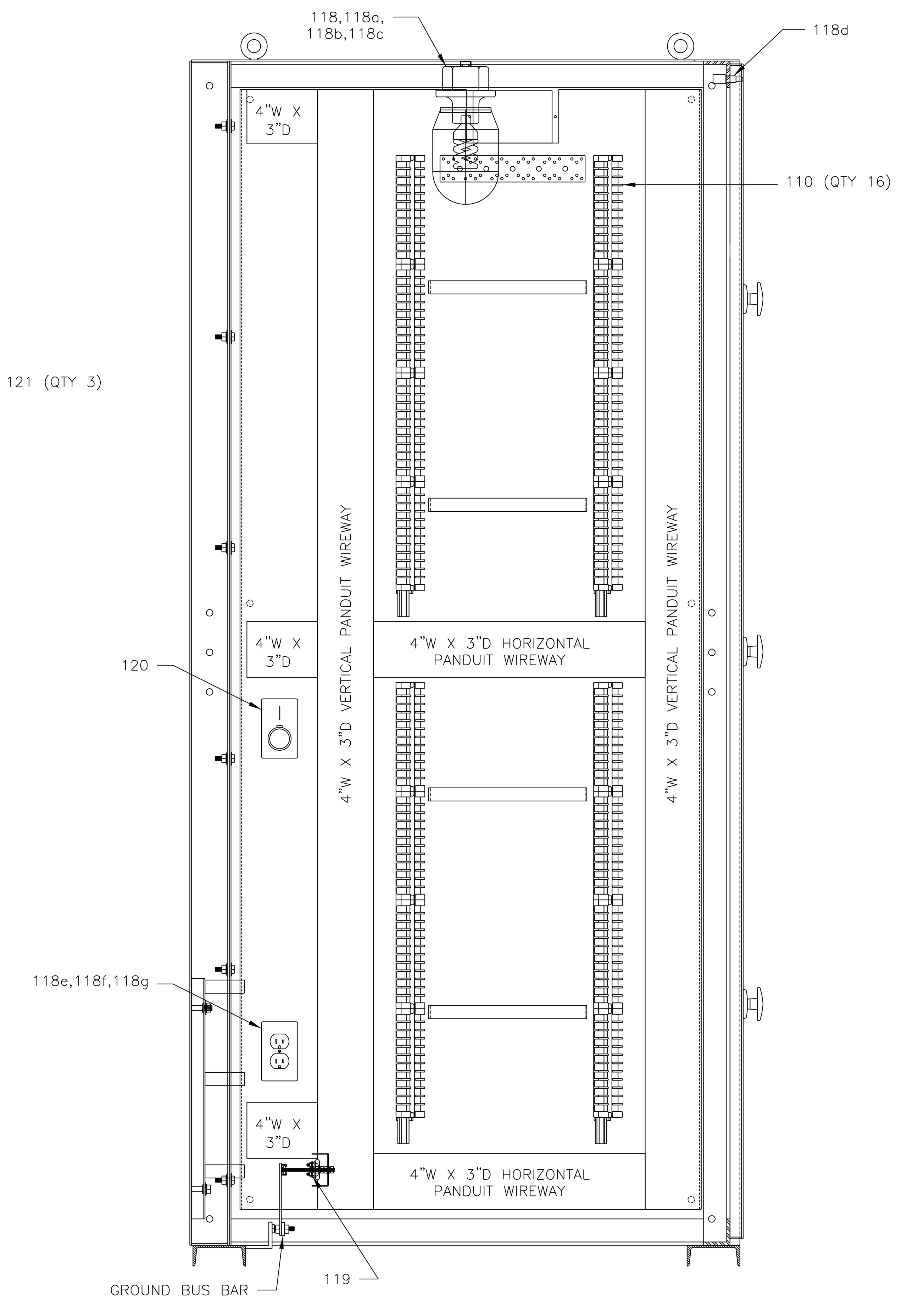
SECTION A–A
INTERIOR – LEFT
SIDE VIEW



FRONT VIEW

☒ BLANK PLATE

SEE SHEET 2
FOR REAR VIEW



SECTION B–B
INTERIOR – RIGHT
SIDE VIEW

UNLESS OTHERWISE NOTED:
1) ALL DIMENSIONS ARE IN INCHES.
2) PANELS SHALL BE FABRICATED FROM 11 GA CRS.
3) PANELS TO BE BRACED AS REQUIRED TO INSURE A SMOOTH AND LEVEL SURFACE. ALL EXPOSED WELDS TO BE GROUND SMOOTH.
4) INTERIOR FINISH TO BE – SATIN ANSI 61 GRAY. EXTERIOR FINISH TO BE – SATIN ANSI 61 GRAY.

NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED	NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED

ENGINEERING	BY	DATE
DESIGNED	SPCP	08/03/17
CHECKED		
APPROVED	DDH	08/03/17
DRAFTING	BY	DATE
PRELIMINARY		
FINAL DESIGN		
PLOTTED		

BARTRAM SUBSTATION

LAYOUT DIAGRAM

CIP PANEL

SCALE: NONE

SYSTEM PROTECTION & CONTROL PROJECTS 20413

IFB NO.:

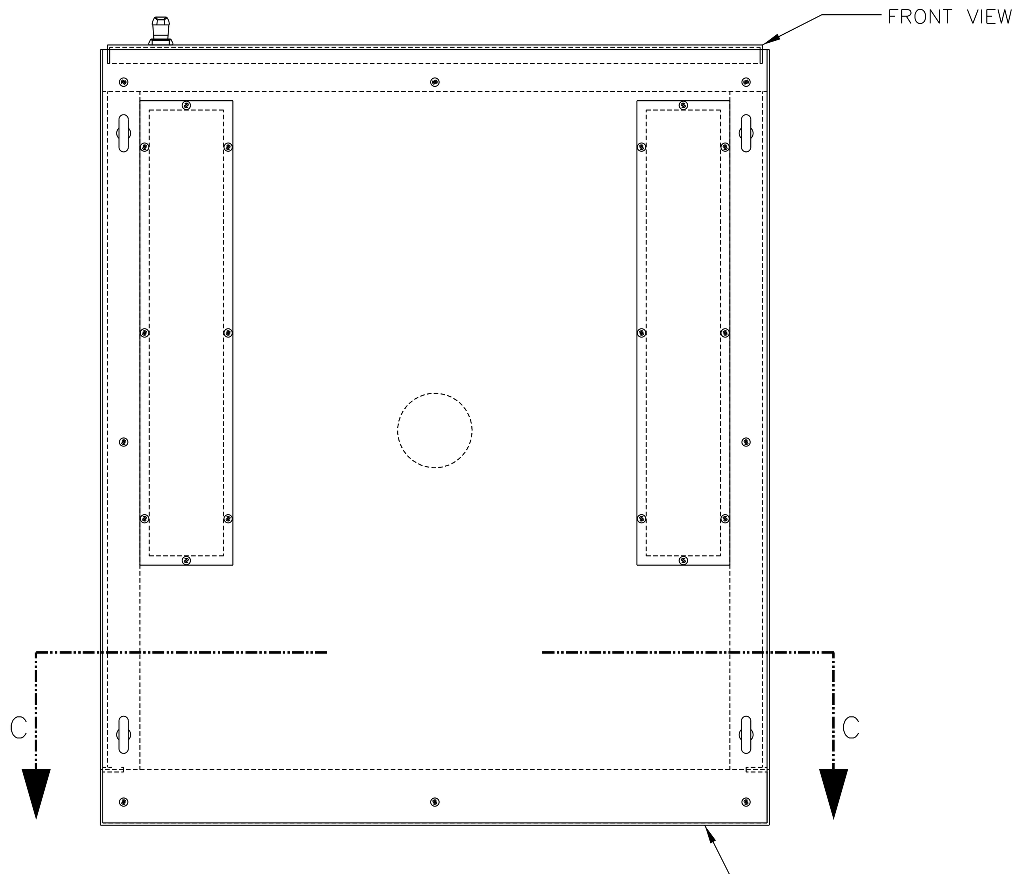
BUILDING COMMUNITY

DESIGN FILENAME: SNFRONT.DGN

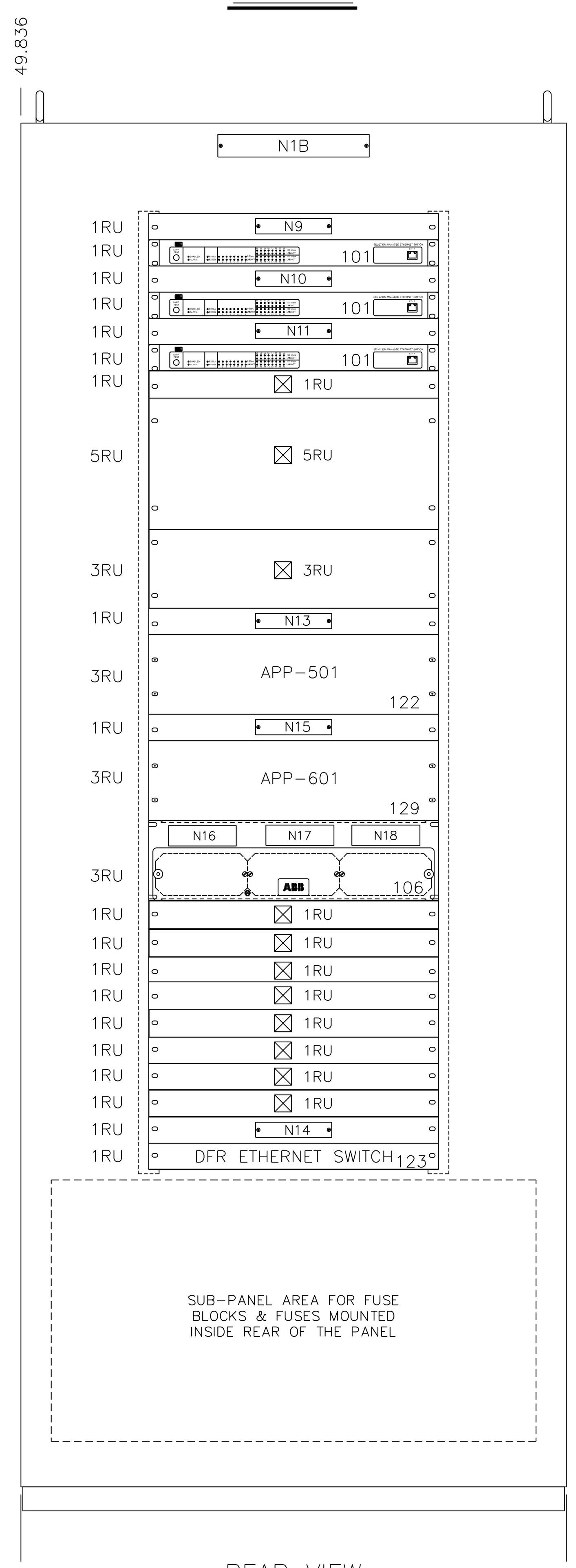
DRAWING NO.: SNFRONT

SHEET NO.:

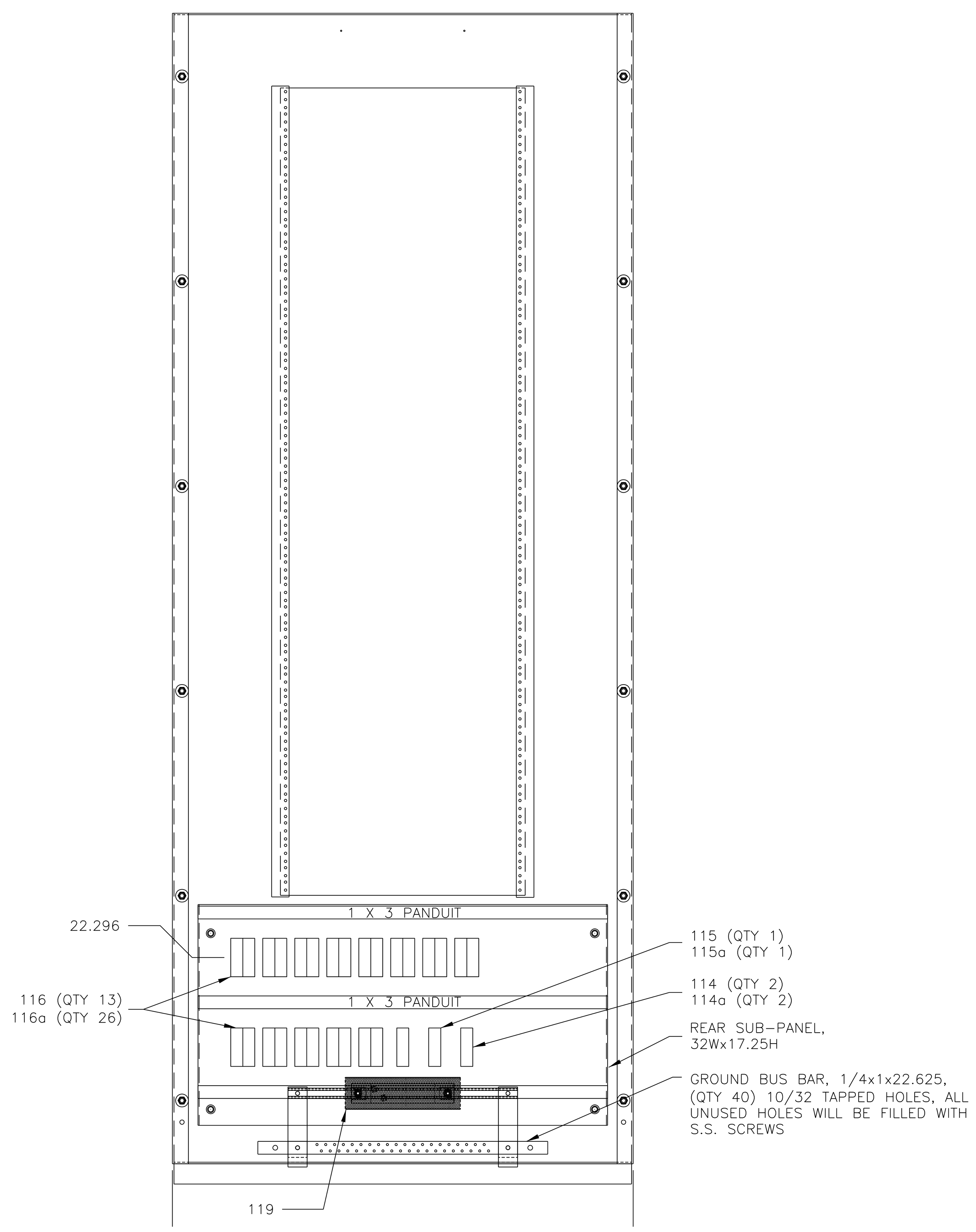
BILL OF MATERIAL CONTINUED FROM NPL48					
ITEM	DEVICE	STYLE NUMBER	QTY	MFR	DESCRIPTION
129	DFR/APP 601	APP-601-D-09A-24E-0-4	1	APP ENGINEER	DFR, TYPE APP-601 DAU CHASSIS, INCLUDES SLOT 1, 2, 3 - ANALOG INPUT CARDS SLOT 7 - DSP CARD SLOT 8, 9 - DIGITAL INPUT CARD WITH INTERNAL WETTING SLOT 10 - DIGITAL INPUT CARD WITH EXTERNAL WETTING SLOT 12 - ALARM OUTPUT CARD APP00037 - 6AWG GROUND ASSEMBLY. 10'



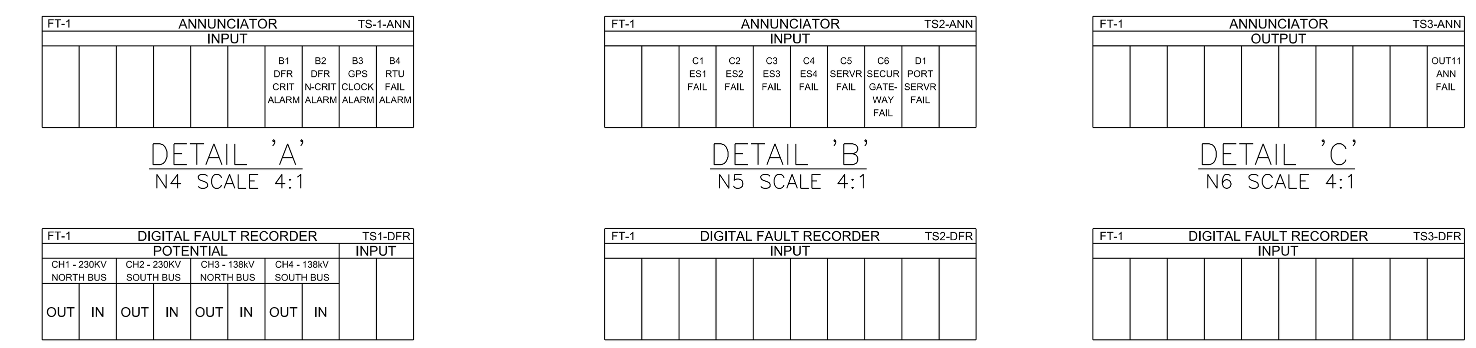
TOP VIEW



REAR VIEW



SECTION C-C
INTERIOR – REAR VIEW
RU DEVICES NOT SHOWN



DETAIL 'A'
N4 SCALE 4:1

DETAIL 'B'
N5 SCALE 4:1

DETAIL 'C'
N6 SCALE 4:1

DETAIL 'D'
N16 SCALE 4:1

DETAIL 'E'
N17 SCALE 4:1

DETAIL 'F'
N18 SCALE 4:1

UNLESS OTHERWISE NOTED:
1) ALL DIMENSIONS ARE IN INCHES.
2) PANELS SHALL BE FABRICATED FROM 11 GA CRS.
3) PANELS TO BE BRACED AS REQUIRED TO INSURE A SMOOTH AND LEVEL SURFACE. ALL EXPOSED WELDS TO BE GROUND SMOOTH.
4) INTERIOR FINISH TO BE – SATIN ANSI 61 GRAY. EXTERIOR FINISH TO BE – SATIN ANSI 61 GRAY.
5) SEE SHEET 1 FOR NAMEPLATE AND BILL OF MATERIAL INFORMATION.

NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED	NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED

ENGINEERING	BY	DATE
DESIGNED	SPCP	08/03/17
CHECKED		
APPROVED	DDH	08/03/17
DRAFTING	BY	DATE
PRELIMINARY		
FINAL DESIGN		
PLOTTED		

BARTRAM SUBSTATION

LAYOUT DIAGRAM

CIP PANEL

JEA BUILDING COMMUNITY

SCALE: NONE

SYSTEM PROTECTION & CONTROL PROJECTS 20413

IFB NO.:

DESIGN FILENAME: SNREAR.DGN

DRAWING NO.: SNREAR

SHEET NO.: