

ROMTEC UTILITIES, INC.

ELECTRICAL DRAWING SET

FOR

PROJECT NAME

PROJECT LOCATION

SCADA CONNECT BASE UNIT
WITH CELLULAR COMMUNICATION

DRAWINGS LIST REPORT

SHEET	DRAWING DESCRIPTION
1	BASE MODULE AND POWER SUPPLY
2	I/O EXTENSION CARD
3	TERMINAL CONNECTIONS
4	ENCLOSURE DRAWING
5	BACK PLATE LAYOUT DRAWING

FIELD INSTALLATION AND WIRING:

GENERAL:

THE SCHEMATIC DRAWINGS AID IN UNDERSTANDING AND INSTALLING THE CONTROL SYSTEM. COMPLETE FIELD WIRING INSTALLATION INSTRUCTIONS ARE NOT INCLUDED HERE AND THE CORRECT INSTALLATION AND CONFORMANCE TO APPLICABLE CODES IS THE RESPONSIBILITY OF THE INSTALLER.

FIELD WIRING INSIDE ENCLOSURES:

- 1: CONNECTIONS WILL BE ONLY TO TERMINALS PROVIDED.
- 2: WIRE LENGTH FROM ENTRY POINT TO TERMINAL BOARD TO BE AS SHORT AS POSSIBLE.
- 3: SIGNAL WIRE MUST NOT BE PLACED OR RUN WITH NON-SIGNAL WIRE ENTRY INTO THE ENCLOSURE.
- 4: INCOMING WIRE MUST NOT BE ROUTED IN WIRE CHANNELS OR THROUGH AREAS OF POWER AND CONTROL COMPONENTS WIRING.
- 5: WHEN UNLIKE SIGNAL LEVELS MUST CROSS THEY SHOULD CROSS AT 90 DEGREE ANGLES AT A MAXIMUM SPACING.

FIELD CONNECTION NOTES:

1: ALL WIRING TO BE: XXHW-2 COPPER, UNLESS OTHERWISE SPECIFIED.

2: SHIELDED CABLES ARE #18GA. FOIL SHIELDED TYPE, 2 CONDUCTOR CABLE TO BE BELDEN #9318 OR EQUIVALENT, 3 CONDUCTOR CABLE TO BE BELDEN #9365 OR EQUIVALENT, AND 4 CONDUCTOR CABLE TO BE BELDEN #9368 OR EQUIVALENT UNLESS OTHERWISE SPECIFIED. NOTE: SHIELDS ARE ONLY CONNECTED AT THE SIGNAL SOURCE, OTHER END OF THE SHIELD IS UNCONNECTED AND SHOULD ISOLATED.

DRAWING STANDARDS:

WIRE COLOR STANDARD		
USE	COLOR	SYM
POWER AC	BLACK	<BK>
CONTROL POWER (H)	RED	<RD>
CONTROL POWER (N)	WHITE	<WH>
UPS CONTROL POWER (H)	ORANGE	<OR>
UPS CONTROL POWER (N)	WHITE/ORANGE	<WO>
DC POWER (+)	BLUE	<BL>
DC POWER (-)	WHITE/BLUE	<WB>
EXTERNAL POWER	YELLOW	<YL>
INTRINSICALLY SAFE WIRING	BLUE/WHITE	<BW>
GROUND	GREEN	<GN>

WIRE SPECS : -ALL WIRING TO BE: COPPER STRANDED, UNLESS OTHERWISE SPECIFIED.

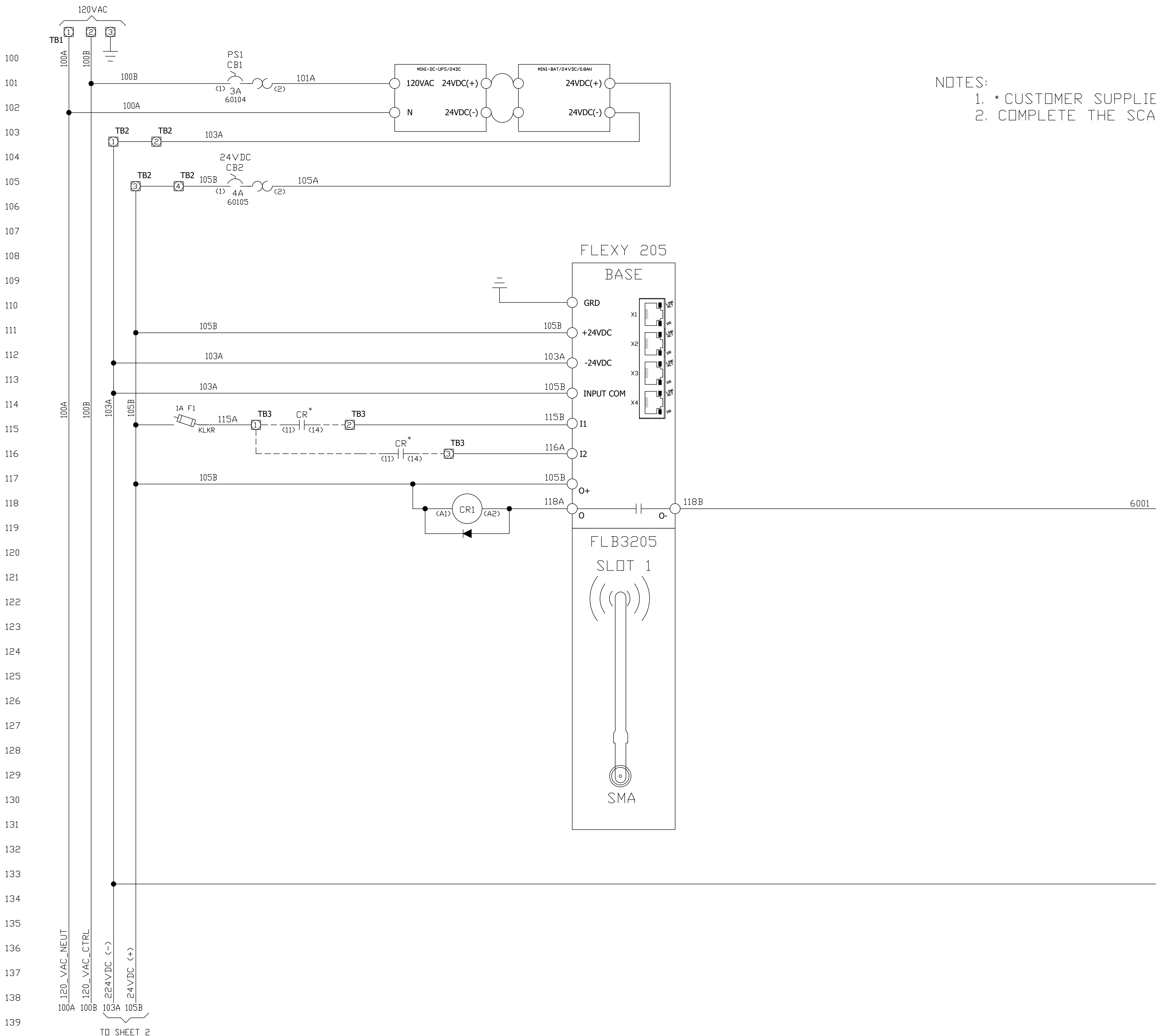
-ALL TERMINALS SHALL BE LEGIBLY NUMBERED AND SHALL MATCH THE CONNECTED WIRE NUMBER AS PER DRAWING.

REV	DATE	DESCRIPTION	BY
0			

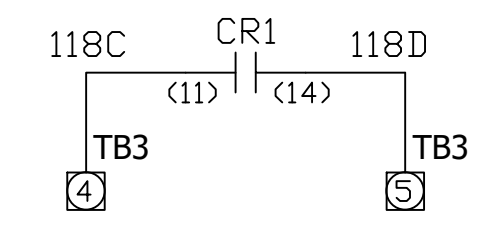
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WWW.ROMTECUTILITIES.COM

SCADA CONNECT
ROSEBURG, OR
TITLE PAGE



NOTES:
 1. * CUSTOMER SUPPLIED CONTACTS
 2. COMPLETE THE SCADA CONNECT SETUP FORM TO IDENTIFY I/O.



120_VAC_NEUT
 120_VAC_CTRL
 24VDC (-)
 24VDC (+)
 100A 100B 103A 105B
 TO SHEET 2

SCADA CONNECT
 ROSEBURG, OR
 BASE MODULE

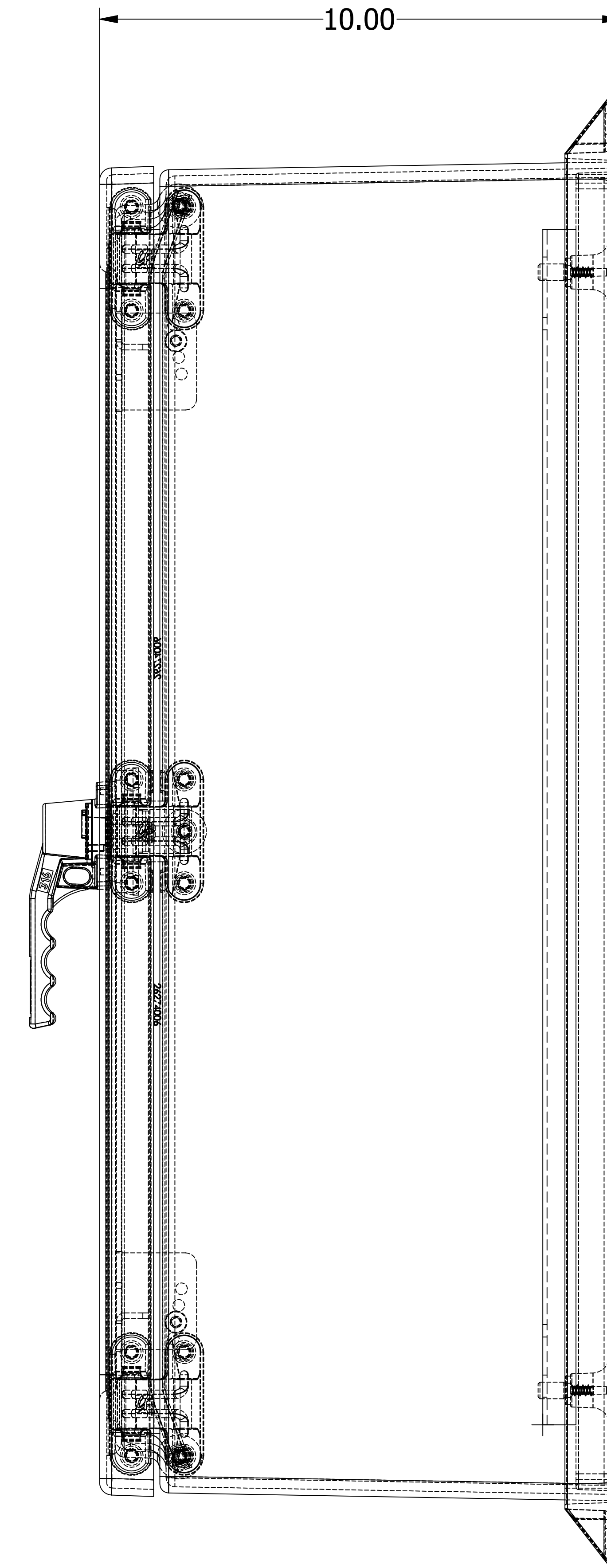
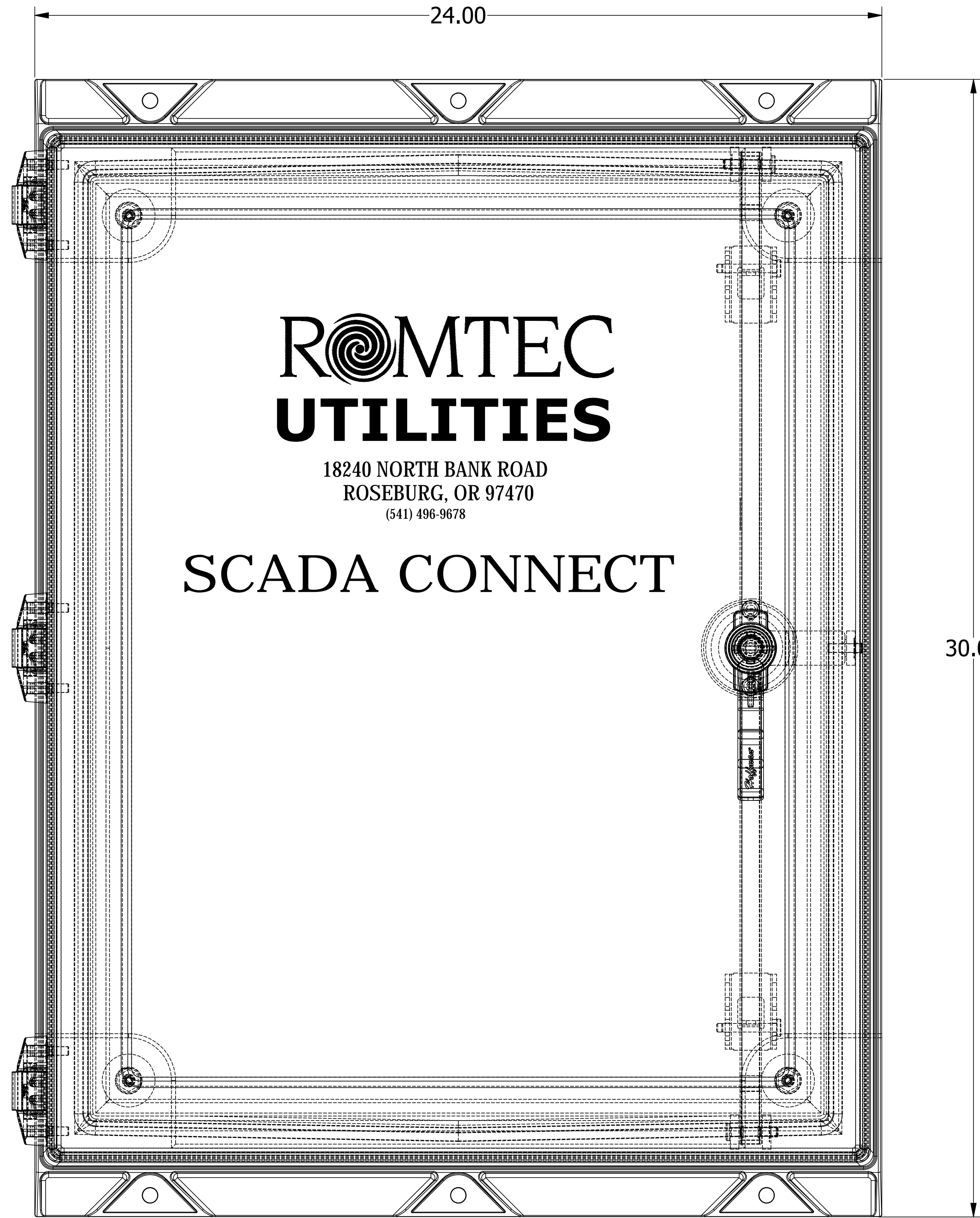
ELECTRICAL SHEET
 1 OF 5

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PROJECT #: EO455D01
 DSN: KAS
 DRN: DRN
 CKD: CKD

DATE: 11/29/18
 REV: 0
 DESCRIPTION: REVISION HISTORY

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 ROSEBURG, OREGON 97470
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THE ENCLOSURE SHOWN REPRESENTS THE INTENT OF THE DESIGN. OFTEN THE ENCLOSURE SIZE AND LAYOUT MUST CHANGE TO ACCOMMODATE THE REQUIRED COMPONENTS AND FINAL DESIGN. PLEASE CONTACT ROMTEC UTILITIES TO OBTAIN ACTUAL AS-BUILT DRAWINGS BEFORE INSTALLATION.

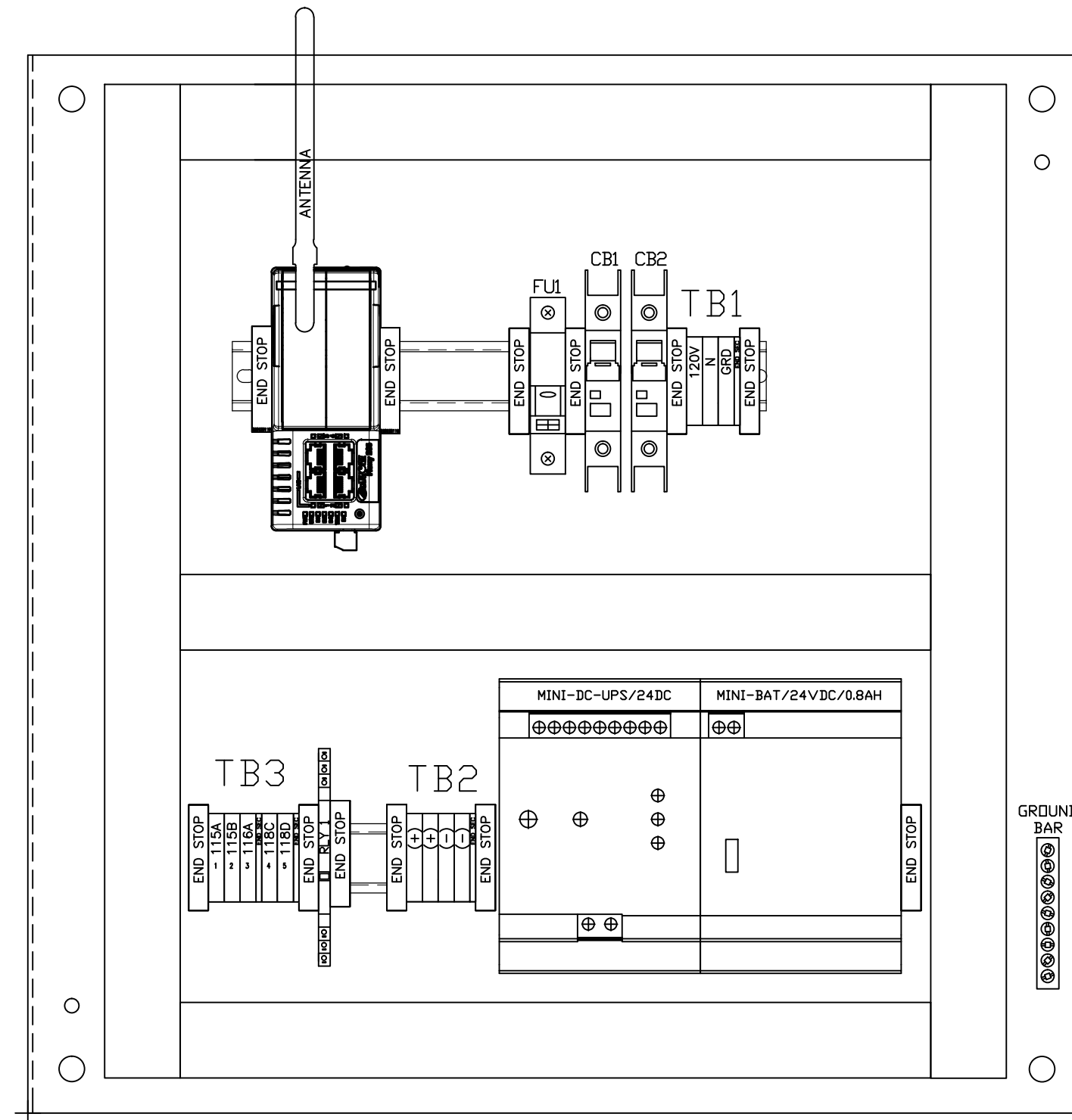
SCADA CONNECT
ROSEBURG, OR
ENCLOSURE DRAWING



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REV	DATE	DESCRIPTION	BY
0			



PARTS LIST				
ITEM	QTY	STOCK NUMBER	DESCRIPTION	
1	1	A30H2410GQRLP3PT	NEMA 4X FIBERGLASS JUNCTION BOX 30X24X10	
2	1	A30P24	BACK PLATE	
3	1	20500_00MA	EWON FLEXY BASE UNIT	
4	1	FLB3205	CELLULAR 4G CARD	
5	1	FAC90901_0000	B4G DIPOLE ANTENNA	
6	1	2866640	MINI-DC-UPS/24DC	
7	2	2866666	MINI-BAT/24VDC/0.8AH	
8	1	60104	3A CIRCUIT BREAKER	
9	1	60105	4A CIRCUIT BREAKER	
10	1	RSL1PVBU	24VDC RELAY	
11	1	LPSC001ID	LED INDICATING CLASS CC FUSE HOLDERS	
12	1	KTK-R	1 AMP FUSES	
13	10	0800886	TERMINAL END CLAMP	
14	3	3047206	TERMINAL END BARRIER	
15	2122	3044199	TERMINAL - GRAY	
16	1	3044128	TERMINAL GROUND	
17	1	3214259	TERMINAL - 3 TIER	
18	1	3214314	TERMINAL - 3 TIER END COVER	
19	28"	PS-12100-F2	DIN RAIL	
20	7'	F1.5X1.5LG6	WIRING DUCT - 1.5 X 1.5	
21	7'	C1.5LG6	WIRING DUCT COVER	
22	1	PK7GTA	GROUND BAR KIT	

SCADA CONNECT
ROSEBURG, OR
BACK PLATE LAYOUT

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