

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	CONTINUOUS HINGE ENCLOSURE W/ 3-POINT LATCH NEMA 3R, 60"X36"X18", GRAY MILD STEEL	HOFFMAN	A60H36GLP3PT
2	1	AIR CONDITIONER, SPECTRACOOL INDOOR/OUTDOOR G52, 12000BTU 115V, LT GRAY, STEEL	HOFFMAN	G521216G050
3	1	HMI, PANELVIEW 10"	ALLEN BRADLEY	2711P-T10C22D9P
4	1	HMI PROTECTOR, LARGE SHADE AIDE, 15.7"W X 11.25"H X 1"D	SHADE AIDE	H87A485-4

NAMEPLATE SCHEDULE					
ITEM	DIMENSIONS	LINE 1	LINE 2	LINE 3	BKGND/LETTER
1	2" X 2"	RIO-001			WHITE/BLK

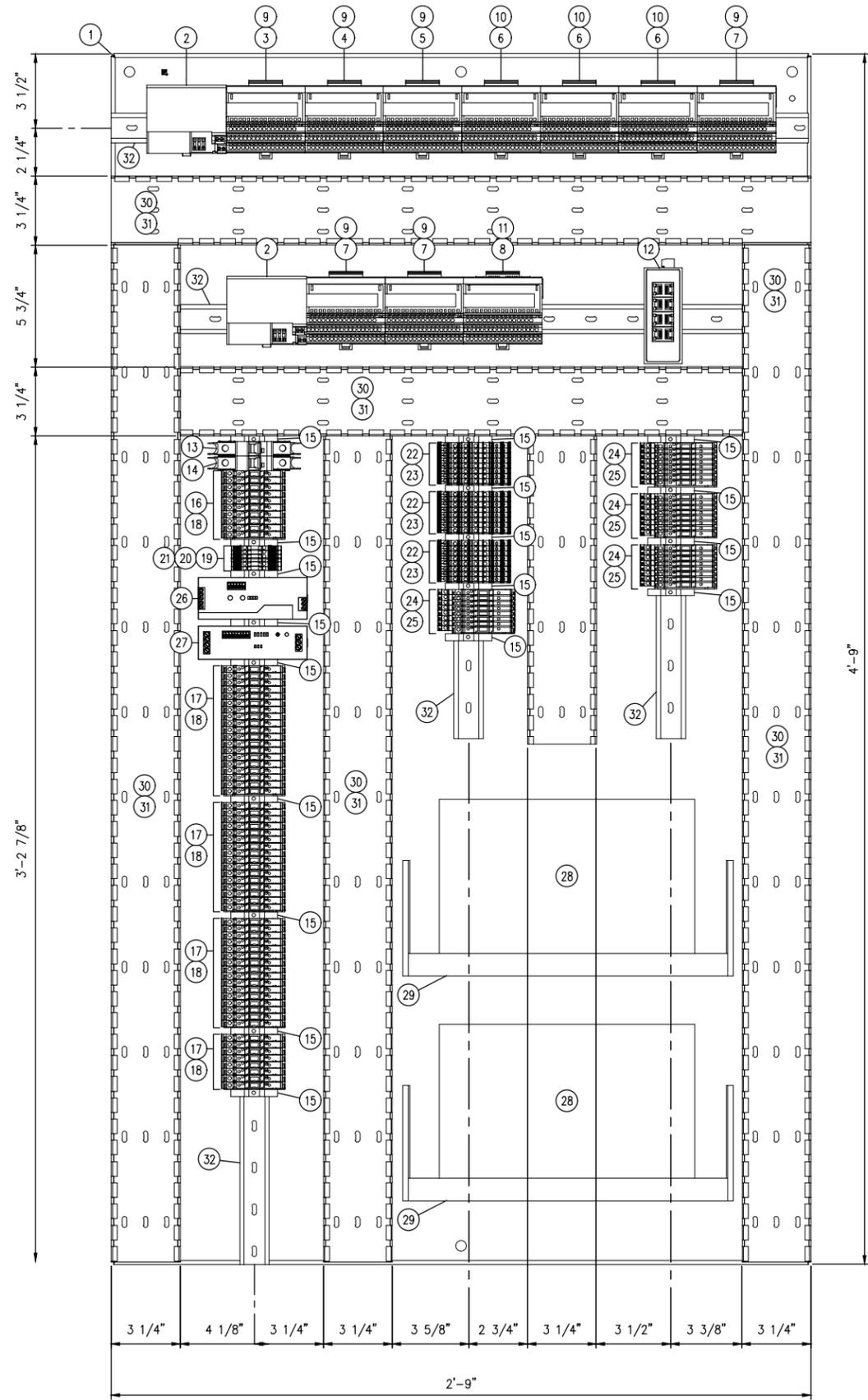
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REV.	DESCRIPTION	DATE	BY	APP'D	REV.	DESCRIPTION	DATE	BY	APP'D
A	ISSUED FOR APPROVAL	8/9/24	ML						

Fax: (432) 563-0468 Ph: (432) 563-0447

PANEL LAYOUT
RIO-001 EXTERNAL LAYOUT
THREE RIVERS LANDFILL PLANT
4,000 SCFM LFG PLANT JACKSON, SC 29831
SCALE 3" = 1'-0" DWG NO. 1R113-RIO1-013 W.O. NO. A-24-10137 REVISION A



BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	BACK PLATE 57"x33"	HOFFMAN	A60P36
2	2	FLEX ETHERNET/IP ADAPTER	ALLEN-BRADLEY	1794-AENTR
3	1	FLEX 16 POINT DIGITAL OUTPUT MODULE	ALLEN-BRADLEY	1794-OB16
4	1	FLEX 16 POINT DIGITAL INPUT MODULE	ALLEN-BRADLEY	1794-IB16
5	1	FLEX 8 POINT DIGITAL INPUT MODULE	ALLEN-BRADLEY	1794-IB8
6	3	FLEX 8 POINT RTD INPUT MODULE	ALLEN-BRADLEY	1794-IR8
7	3	FLEX 8 POINT ANALOG INPUT MODULE	ALLEN-BRADLEY	1794-IE8
8	1	FLEX 8 POINT ANALOG OUTPUT MODULE	ALLEN-BRADLEY	1794-OE8H
9	6	FLEX TERMINAL BASE	ALLEN-BRADLEY	1794-TB3
10	3	FLEX TERMINAL BASE	ALLEN-BRADLEY	1794-TB3K
11	1	FLEX TERMINAL BASE	ALLEN-BRADLEY	1794-TB3C
12	1	STRATIX 2000 8T PORT UNMANAGED SWITCH	ALLEN-BRADLEY	1783-US8T
13	1	CIRCUIT BREAKER, 30A, 230VAC, 48VDC, 1 POLE, 1489-M MINIATURE	ALLEN-BRADLEY	1489-M1C300
14	1	CIRCUIT BREAKER, 10A, 230VAC, 48VDC, 1 POLE, 1489-M MINIATURE	ALLEN-BRADLEY	1489-M1C100
15	18	TERMINAL BLOCK END ANCHOR	ALLEN-BRADLEY	1492-EAJ35
16	10	TERMINAL BLOCK, DOUBLE LEVEL FUSIBLE WITH LED, 60-150VAC/DC, GREY	ALLEN-BRADLEY	1492-JD3FB120
17	59	TERMINAL BLOCK, DOUBLE LEVEL FUSIBLE WITH LED, 10-30VAC/DC, GREY	ALLEN-BRADLEY	1492-JD3FB24
18	5	END BARRIER FOR JD3FB TERMINAL BLOCKS	ALLEN-BRADLEY	1492-EBJD3FB
19	2	TERMINAL BLOCK, 2.5 SQUARE MM, GRAY	ALLEN-BRADLEY	1492-J3
20	2	TERMINAL BLOCK, 2.5 SQUARE MM, WHITE	ALLEN-BRADLEY	1492-J3W
21	2	TERMINAL BLOCK, 2.5 SQUARE MM, GREEN	ALLEN-BRADLEY	1492-J3G
22	24	TERMINAL BLOCK, A2.5 MM TRIPLE LEVEL	ALLEN-BRADLEY	1492-JT3M
23	3	END BARRIER FOR JT3M TERMINAL BLOCKS	ALLEN-BRADLEY	1492-EBJT3M
24	24	TERMINAL BLOCK, TWO LEVEL FUSIBLE AND GROUND WITH LED, 10-30VAC/DC, GREY	ALLEN-BRADLEY	1492-JDG3FB
25	4	END BARRIER FOR JDG3FB TERMINAL BLOCKS	ALLEN-BRADLEY	1492-EBJDG3FB
26	1	POWER SUPPLY, QUINT4-PS/1AC/24DC/10	PHOENIX CONTACT	2904601
27	1	UPS, QUINT4-UPS/24VDC/24VDC/20/USB	PHOENIX CONTACT	2907072
28	2	BATTERY, 12VDC, 100Ah	POWER SONIC	PS-121000
29	2	BATTERY BRACKET	CUSTOM	
30	12	WIREWAY, 3"x3", LIGHT GRAY 6' LENGTH	PANDUIT	G3X3LG6
31	12	WIREWAY COVER, 3", LIGHT GRAY 6' LENGTH	PANDUIT	C3LG6
32	4	DIN RAIL, IEC 35MM X 7.5MM X 1 M	ALLEN-BRADLEY	199DR1
33	60	FUSE, 0.5 AMP, 5X20MM, GMA TYPE	BUSSMAN	GMA-500MA
34	5	FUSE, 1 AMP, 5X20MM, GMA TYPE	BUSSMAN	GMA-1-R
35	50	FUSE, 2 AMP, 5X20MM, GMA TYPE	BUSSMAN	GMA-2-R
36	5	FUSE, 3 AMP, 5X20MM, GMA TYPE	BUSSMAN	GMA-3-R
37	20	JUMPER, 5MM CENTER TO CENTER, 10 POLE, GRAY 20PC/PCK	ALLEN-BRADLEY	1492-CJ5-10
38	500	FERULE, SINGLE WIRE, 8MM PIN L BLUE CRIMP	PANDUIT	FSD78-8-D
39	2	HEAT SHRINK WIRE MARKER, 0.25" X 8', WHITE	PANDUIT	H000X025H1M
40	1	GROUND BAR, 12 SPACE,	SIEMENS	EC2GB12

NOTE 1

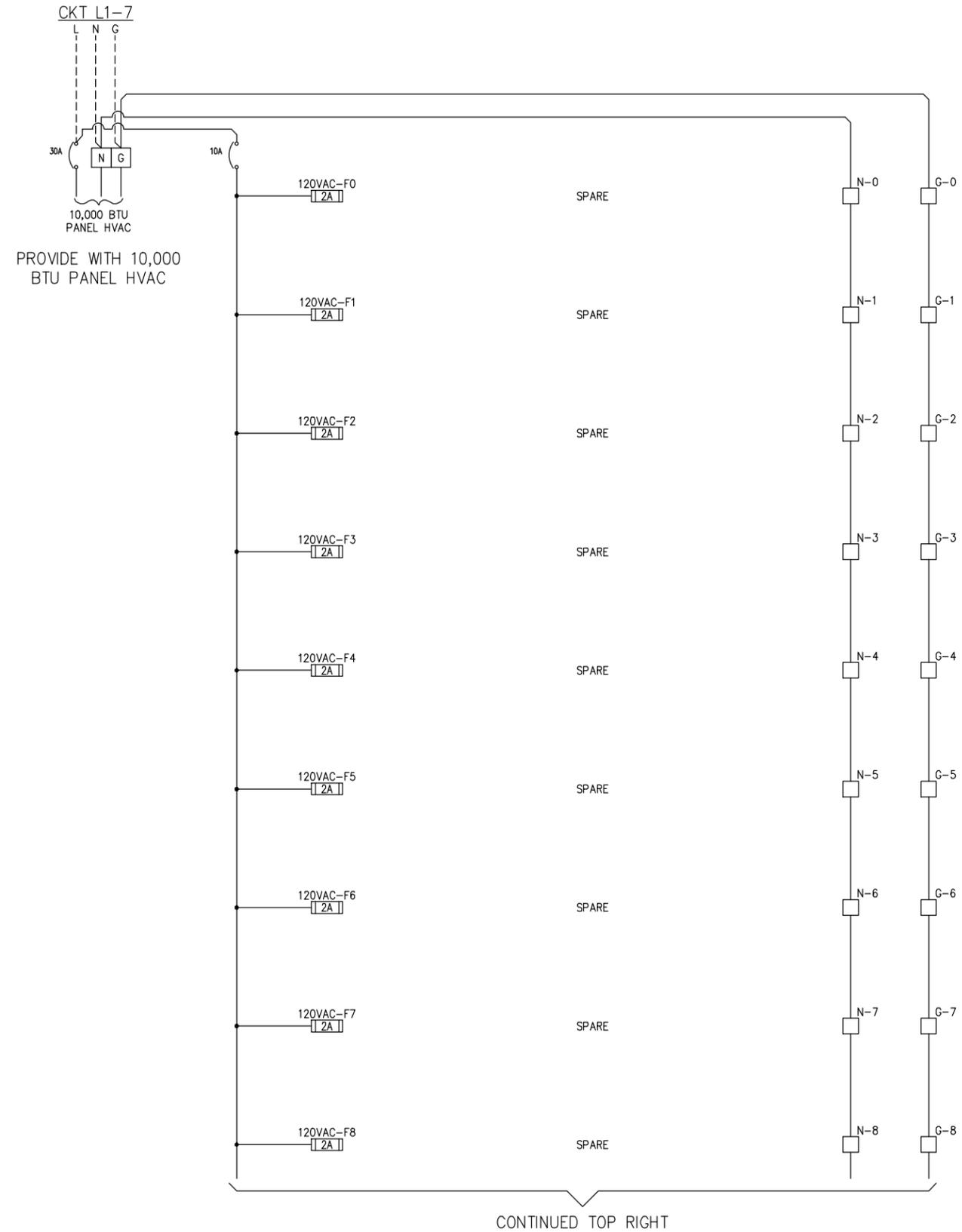
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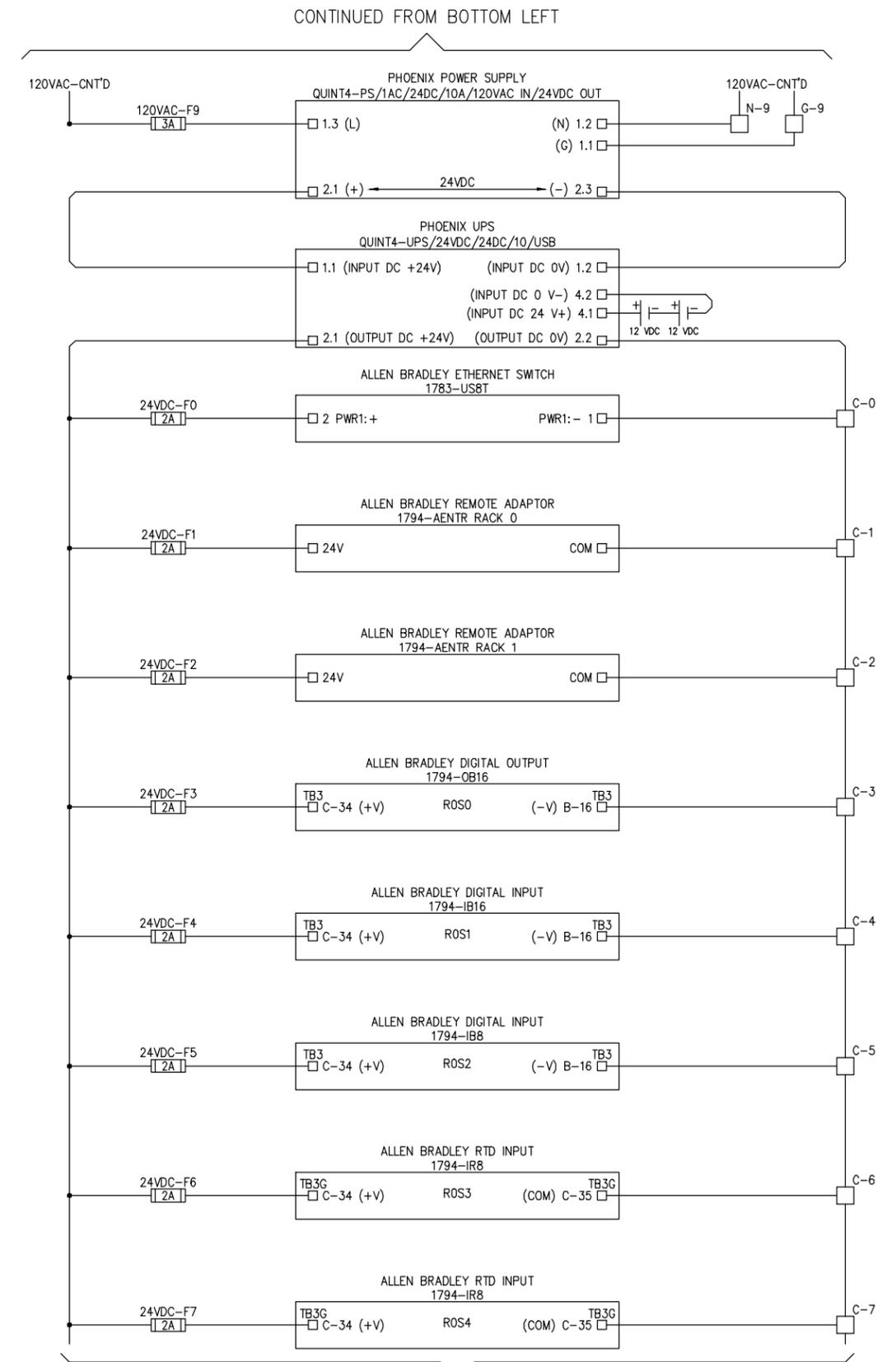
REV.	DESCRIPTION	DATE	BY	APP'D	REV.	DESCRIPTION	DATE	BY	APP'D
A	ISSUED FOR APPROVAL	8/9/24	ML						

Fax: (432) 563-0468 Ph: (432) 563-0447

PANEL LAYOUT	
RIO-001 INTERNAL LAYOUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE: 3/32" = 1'-0"	DWG NO: TR113-RI01-013 W.O. NO: A-24-10137 REVISION: A



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NOTE	DESCRIPTION

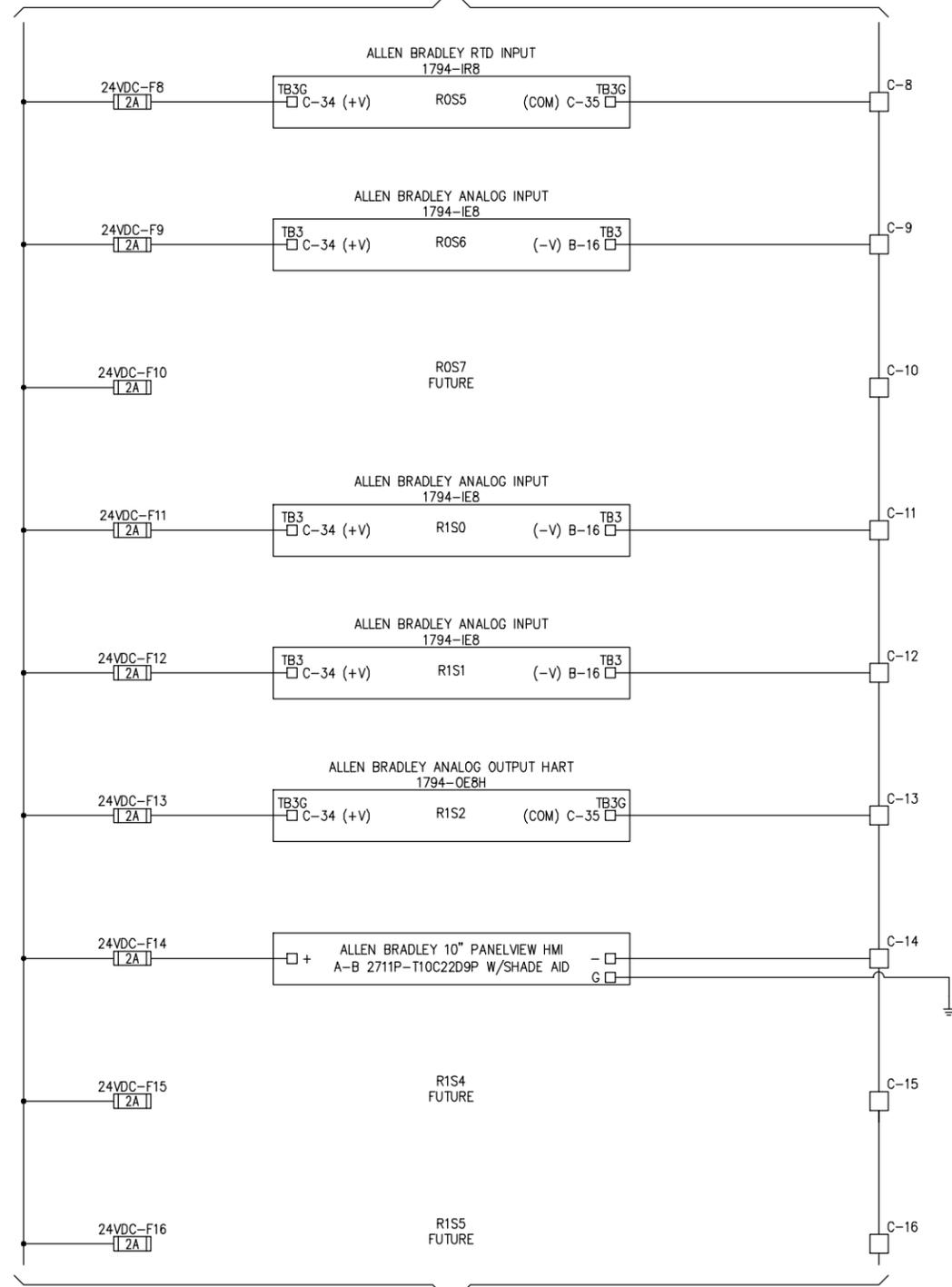
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A	ISSUED FOR APPROVAL	7/11/24	ML	EGM					
B	REVISED FOR APPROVAL	7/31/24	ML	EGM					

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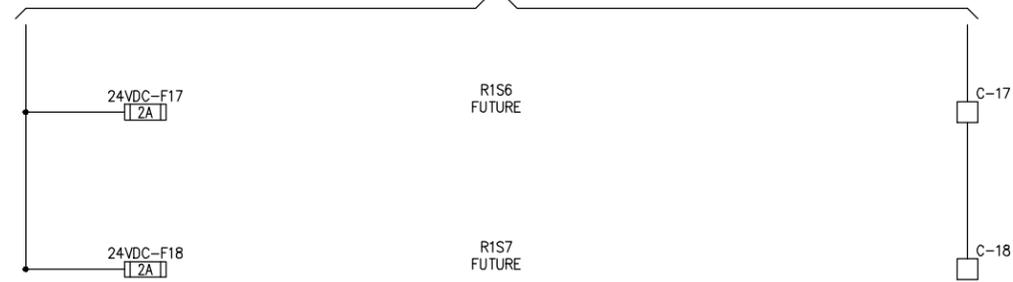
WIRING DIAGRAMS	
RIO-001 24VDC DISTRIBUTION	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. TR113-RI01-001
	W.O. NO. A-24-10137
	REVISION B

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A	ISSUED FOR APPROVAL	7/11/24	ML	EGM					
B	REVISED FOR APPROVAL	7/18/24	ML	EGM					
C	REVISED FOR APPROVAL	7/31/24	ML	EGM					

Fax: (432) 563-0468 Ph: (432) 563-0447

WIRING DIAGRAMS	
RIO-001 24VDC DISTRIBUTION	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. TR113-RI01-002
	W.O. NO. A-24-10137
	REVISION C

FIELD DEVICE

TB-1 (DI)

AB 1794-IB16
RACK 0, SLOT 1

TB-DC-DIST

ZSO-0011B
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
LIMIT SWITCH OPEN

ZSC-0011B
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
LIMIT SWITCH CLOSED

LSH-0011
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
LEVEL SWITCH HIGH

LSL-0011
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
LEVEL SWITCH LOW

ZSO-0011C
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
LIMIT SWITCH OPEN

ZSC-0011C
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
LIMIT SWITCH CLOSED

XI-0012
M-0012 1ST STAGE INLET
COMPRESSOR MOTOR
RUN STATUS

FLT-0012
M-0012 1ST STAGE INLET
COMPRESSOR MOTOR
FAULT STATUS

XI-0015
P-0015 1ST STAGE INLET
COMPRESSOR OIL PUMP MOTOR
RUN STATUS

FLT-0015
P-0015 1ST STAGE INLET
COMPRESSOR OIL PUMP MOTOR
FAULT STATUS

LSH-0014
V-0014 1ST STAGE INLET
COMPRESSOR SEPARATOR
LEVEL SWITCH HIGH

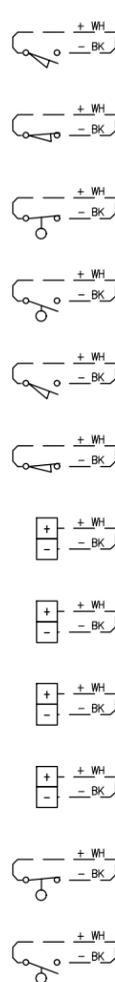
LSL-0014
V-0014 1ST STAGE INLET
COMPRESSOR SEPARATOR
LEVEL SWITCH LOW

[SPARE]

[SPARE]

VS-0022
C-0013 1ST STAGE INLET
COMPRESSOR COOLER
VIBRATION SWITCH

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ZSO-0011B

ZSC-0011B

LSH-0011

LSL-0011

ZSO-0011C

ZSC-0011C

XI-0012

FLT-0012

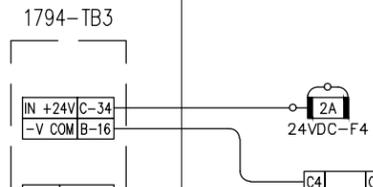
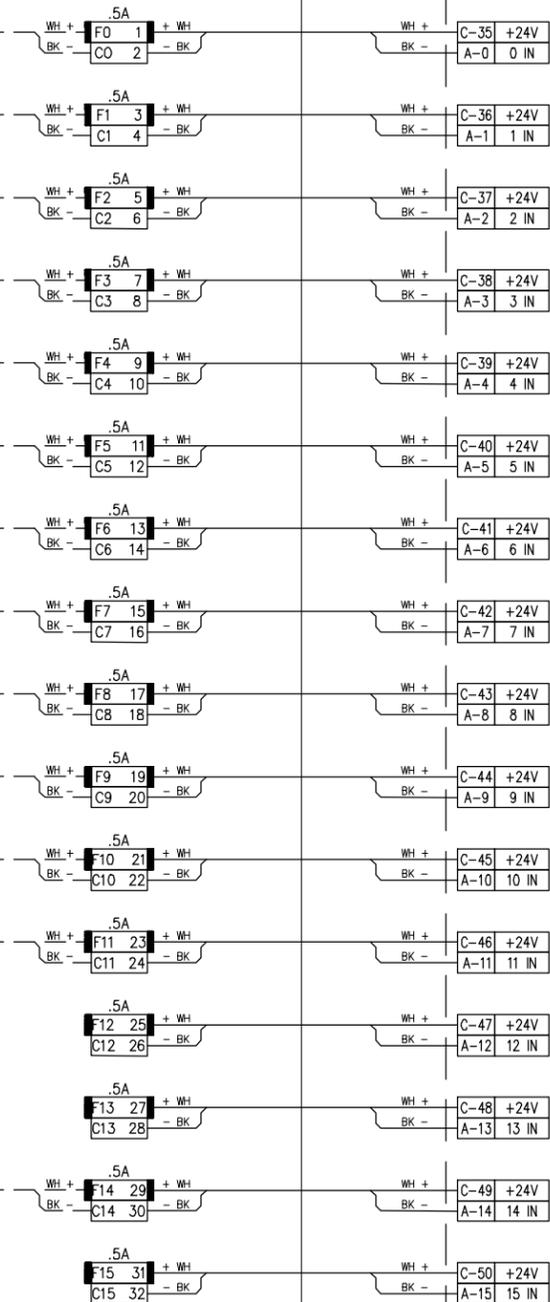
XI-0015

FLT-0015

LSH-0014

LSL-0014

VS-0022



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LOOP DIAGRAMS	
RIO-001 RACK 0, SLOT 1 DIGITAL INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. 1R113-RIO1-004 W.O. NO. A-24-10137 REVISION A

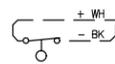
FIELD DEVICE

TB-2 (DI)

AB 1794-IB8
RACK 0, SLOT 2

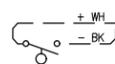
TB-DC-DIST

LSH-0023
V-0023 1ST STAGE INLET
COMPRESSOR DISCHARGE SCRUBBER
LEVEL SWITCH HIGH



LSH-0023

LSL-0023
V-0023 1ST STAGE INLET
COMPRESSOR DISCHARGE SCRUBBER
LEVEL SWITCH LOW



LSL-0023

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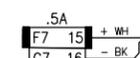
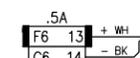
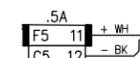
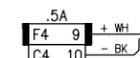
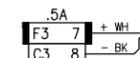
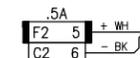
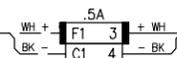
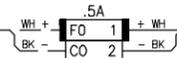
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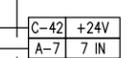
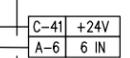
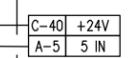
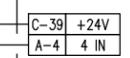
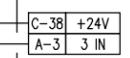
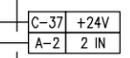
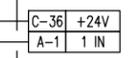
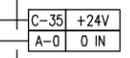
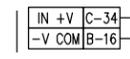
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1794-TB3



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A	ISSUED FOR APPROVAL	7/11/24	ML	EGM					

Fax: (432) 563-0468 Ph: (432) 563-0447

LOOP DIAGRAMS	
RIO-001 RACK 0, SLOT 2 DIGITAL INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. TR113-RIO1-005 W.O. NO. A-24-10137 REVISION A

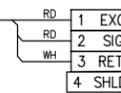
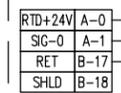
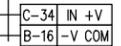
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AB 1794-IR8
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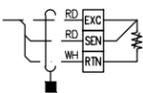
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FIELD DEVICE

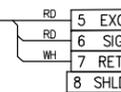
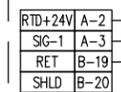
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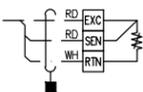
TE-0011



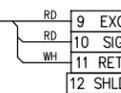
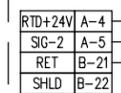
TE-0011
V-0011 1ST STAGE INLET
COMPRESSOR SUCTION
RTD



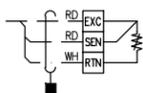
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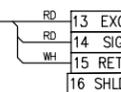
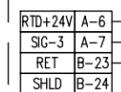
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C-0013 1ST STAGE INLET
COMPRESSOR
RTD



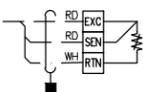
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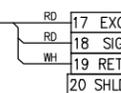
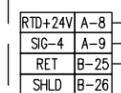
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RTD



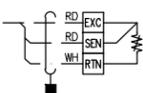
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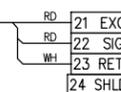
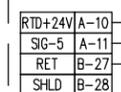
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COMPRESSOR MOTOR
RTD



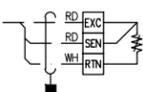
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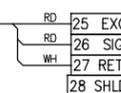
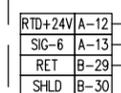
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1ST STAGE INLET
COMPRESSOR MOTOR
RTD



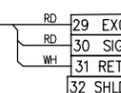
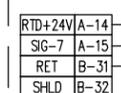
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TE-0012BB
1ST STAGE INLET
COMPRESSOR MOTOR
RTD



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B	REVISED FOR APPROVAL	7/24/24	ML	EGM					
C	REVISED FOR APPROVAL	8/9/24	ML						

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LOOP DIAGRAMS	
RIO-001 RACK 0, SLOT 3 RTD INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. 1R113-RIO1-006 W.O. NO. A-24-10137 REVISION C

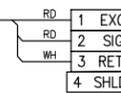
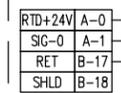
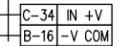
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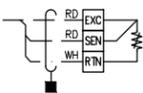
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FIELD DEVICE

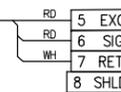
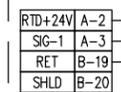
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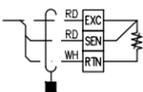
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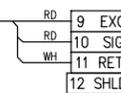
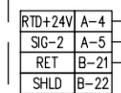
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COMPRESSOR MOTOR
RTD



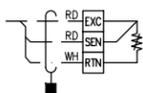
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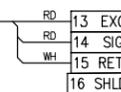
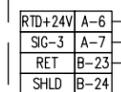
TE-0012CB
1ST STAGE INLET
COMPRESSOR MOTOR
RTD



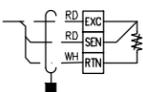
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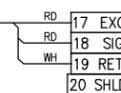
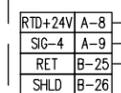
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1ST STAGE INLET
COMPRESSOR MOTOR
RTD



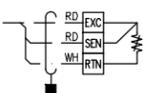
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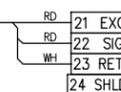
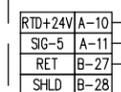
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1ST STAGE INLET
COMPRESSOR MOTOR
RTD



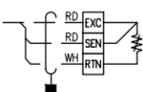
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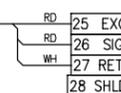
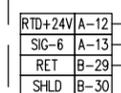
TE-0013A
C-0013 1ST STAGE INLET
COMPRESSOR
RTD



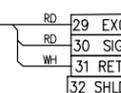
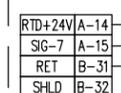
TE-0014



TE-0014
V-0014 1ST STAGE INLET
COMPRESSOR COOLER
RTD



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LOOP DIAGRAMS	
RIO-001 RACK 0, SLOT 4 RTD INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. 1R113-RIO1-007 W.O. NO. A-24-10137 REVISION C

TB-DC-DIST

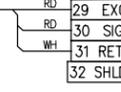
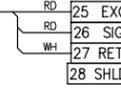
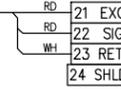
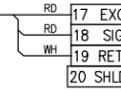
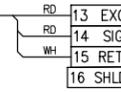
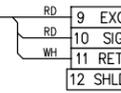
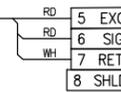
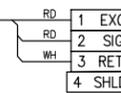
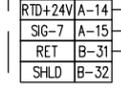
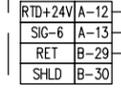
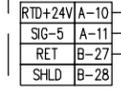
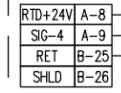
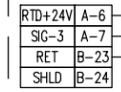
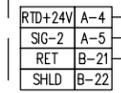
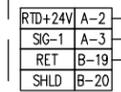
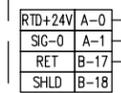
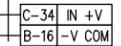
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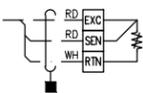
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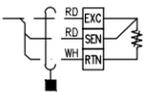


TE-0021



TE-0021
AC-0021 1ST STAGE INLET
COMPRESSOR OIL COOLER
RTD

TE-0022



TE-0022
AC-0022 1ST STAGE INLET
COMPRESSOR GAS COOLER
RTD

[SPARE]

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C	REVISED FOR APPROVAL	8/9/24	ML						

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LOOP DIAGRAMS	
RIO-001 RACK 0, SLOT 5 RTD INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. TR113-RIO1-008
	W.O. NO. A-24-10137
	REVISION C

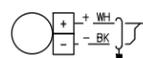
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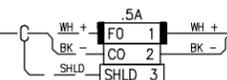
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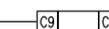
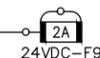
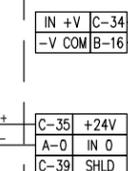
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COMPRESSOR SUCTION
PRESSURE INDICATING
TRANSMITTER



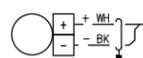
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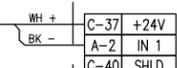
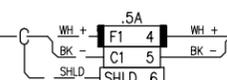
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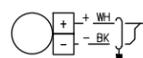
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C-0013 1ST STAGE INLET
COMPRESSOR
PRESSURE INDICATING
TRANSMITTER



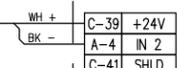
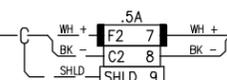
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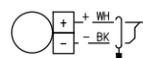
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C-0013 1ST STAGE INLET
COMPRESSOR
PRESSURE INDICATING
TRANSMITTER



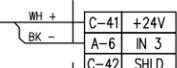
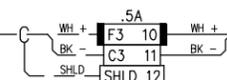
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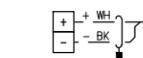
PIT-0013C
C-0013 1ST STAGE INLET
COMPRESSOR
PRESSURE INDICATING
TRANSMITTER



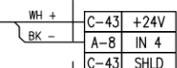
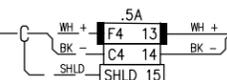
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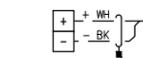
ZT-0013
C-0013 1ST STAGE INLET
COMPRESSOR
SLIDE POSITION STATUS



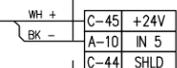
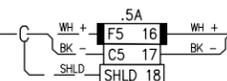
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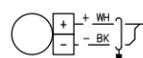
ZI-0013
C-0013 1ST STAGE INLET
COMPRESSOR
SLIDE POSITION STATUS



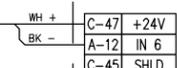
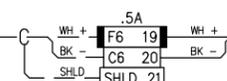
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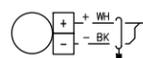
PIT-0014
C-0013 1ST STAGE INLET
COMPRESSOR
PRESSURE INDICATING
TRANSMITTER



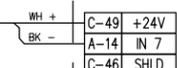
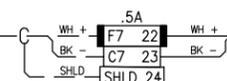
PIT-0014



PIT-0015
C-0013 1ST STAGE INLET
COMPRESSOR OIL PUMP
PRESSURE INDICATING
TRANSMITTER



PIT-0015



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B	REVISED FOR APPROVAL	8/9/24	ML						

Fax: (432) 563-0468 Ph: (432) 563-0447

LOOP DIAGRAMS	
RIO-001 RACK 0, SLOT 6 ANALOG INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. TR113-RIO1-009
	W.O. NO. A-24-10137
	REVISION B

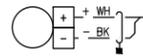
FIELD DEVICE

TB-8 (AI)

AB 1794-IE8
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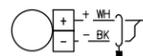
TB-DC-DIST

VT-0012
C-0013 1ST STAGE INLET
COMPRESSOR MOTOR
VIBRATION TRANSMITTER



VT-0012

VT-0013
C-0013 1ST STAGE INLET
COMPRESSOR
VIBRATION TRANSMITTER



VT-0013

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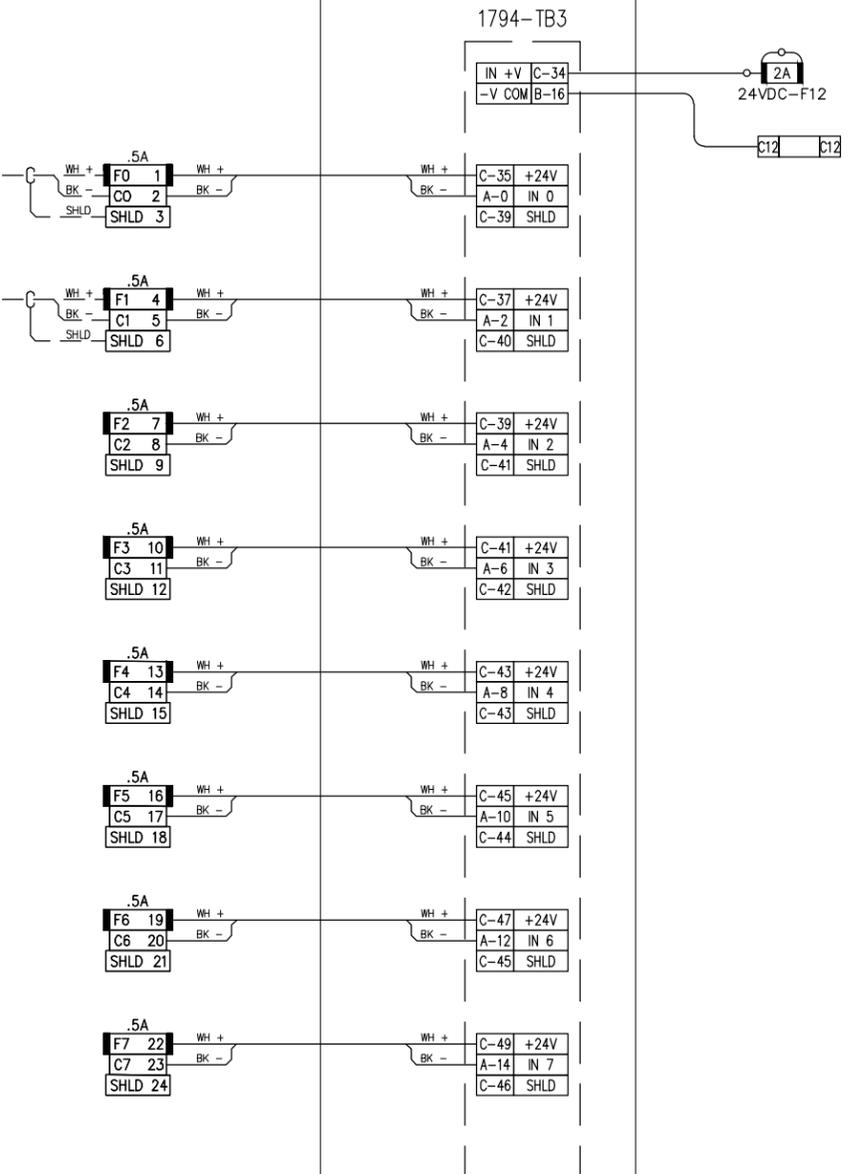
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LOOP DIAGRAMS	
RIO-001 RACK 1, SLOT 1 ANALOG INPUT	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. TR113-RIO1-011
	W.O. NO. A-24-10137
	REVISION B

TB-DC-DIST

AB 1794-OE8H
RACK 1, SLOT 2

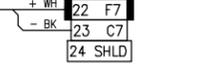
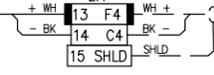
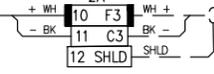
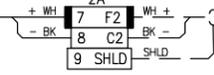
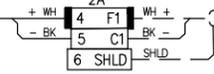
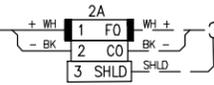
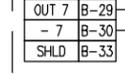
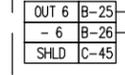
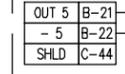
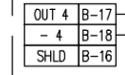
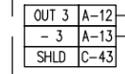
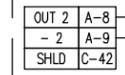
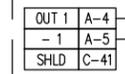
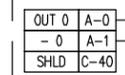
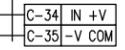
TB-9 (AO-H)

FIELD DEVICE

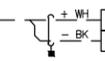
1794-TB3G



C13 C13

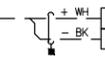


SY-0012



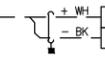
SY-0012
M-0012 1ST STAGE INLET
COMPRESSOR
SPEED SETPOINT

SY-0015



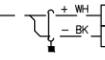
SY-0015
P-0015 1ST STAGE
COMPRESSOR OIL PUMP MOTOR
SPEED SETPOINT

TY-1021



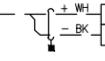
TY-1021
AC-0021 1ST STAGE INLET
COMPRESSOR OIL COOLER
TEMPERATURE CONTROL

PY-0023



PY-0023
V-0023 1ST STAGE INLET
COMPRESSOR DISCHARGE
PRESSURE CONTROL

TY/FY-0024



TY/FY-0024
F-0021 1ST STAGE INLET
COMPRESSOR OIL FILTER A
TEMP/FLOW CONTROL I/P

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C	REVISED FOR APPROVAL	7/24/24	ML	EGM					
D	REVISED FOR APPROVAL	7/31/24	ML	EGM					
E	REVISED FOR APPROVAL	8/9/24	ML						

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LOOP DIAGRAMS	
RIO-001 RACK 1, SLOT 2 ANALOG OUTPUT HART	
THREE RIVERS LANDFILL PLANT	
4,000 SCFM LFG PLANT JACKSON, SC 29831	
SCALE	DWG NO. 1R113-RIO1-012 W.O. NO. A-24-10137 REVISION E