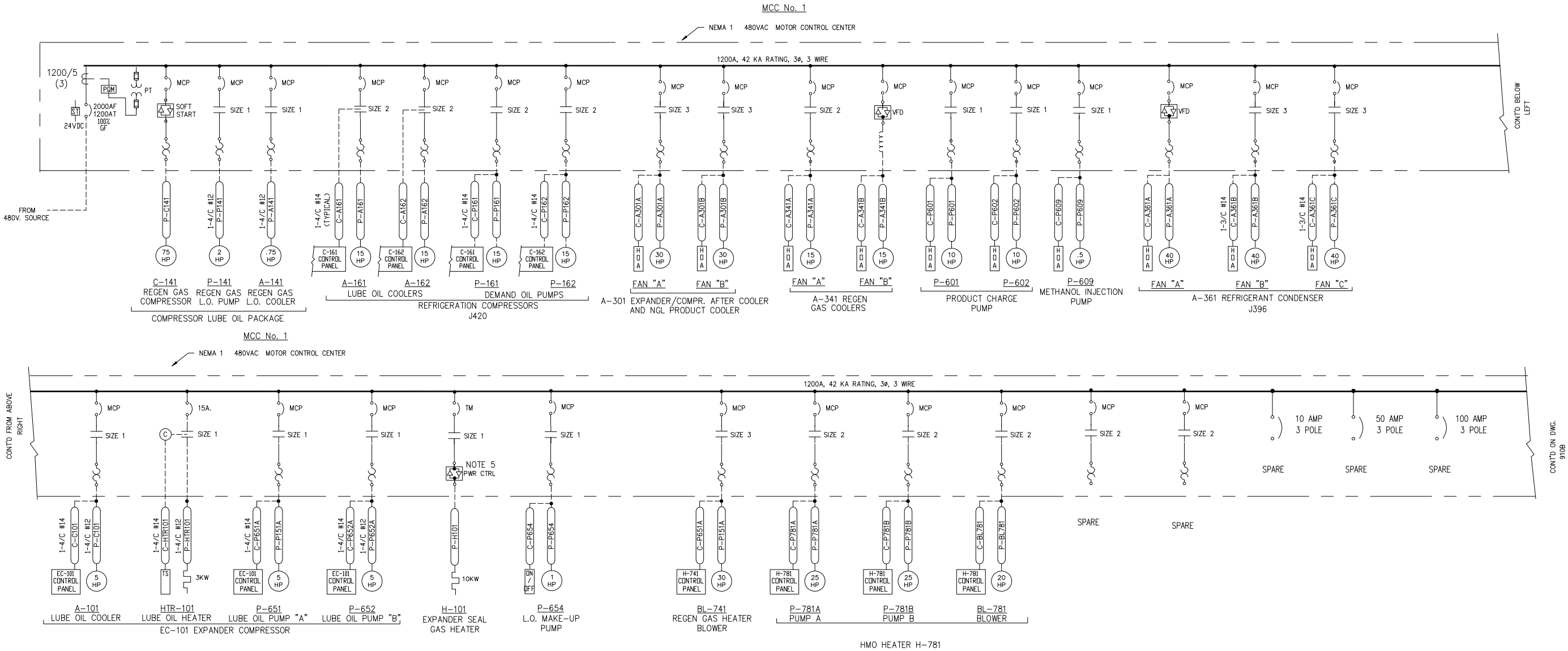




LEGEND

STAND. FIELD WIRING THOMAS RUSSELL WIRING

POWER CABLE No. 1-3/C #4 W/#8GND.

CONTROL CABLE No. P-C141 1-3/C #14 C-C141

STAND. STANDARD TRC CONTROL - NO FLEX IO INTERFACE

NOTES

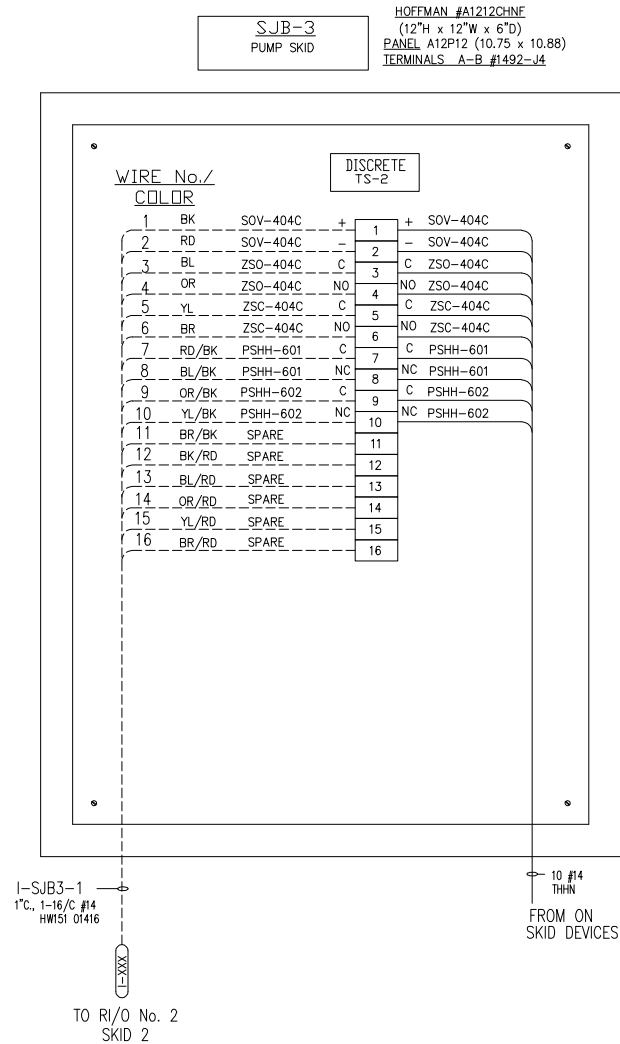
- ALL CONDUIT .75" UNLESS OTHERWISE NOTED.
- WIRE SHOWN IS HOUSTON WIRE & CABLE PART No.S. (ALSO SEE CABLE SCHED.)
- ALL CONDUIT BELOW GRADE 1" MINIMUM.
- SEE CABLE SCHEDULE FOR ROUTING (CONDUIT No.S)
- WE USE WATLOW DIN-A-Mite #DB20-60FDD-S100 (3 phase, 2 leg)

REFERENCE DRAWINGS

910B ONE-LINE DIAGRAM 480V MCC No. 1 SH. 2 OF 2

J-447
03/07/17
IFC

STANDARD PLANT										UOP Russell									
60 MMSQD CRYO W/ REFRIG										TX P.E.# F-7511									
480V. ONE LINE DIAGRAM										OK P.E.# 6852									
MCC No. 1 SH. 1 OF 2										7050 S. York, Suite 210 Tulsa, Oklahoma 74116 Phone: 918-481-5482									
REV.	DRAWING NO.	SCALE	DRAWN BY	RLC	DATE	CHECKED BY	RLC	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE				
0	447-910A	NONE	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015	DATE 09/30/2015				
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WIRE LEGEND

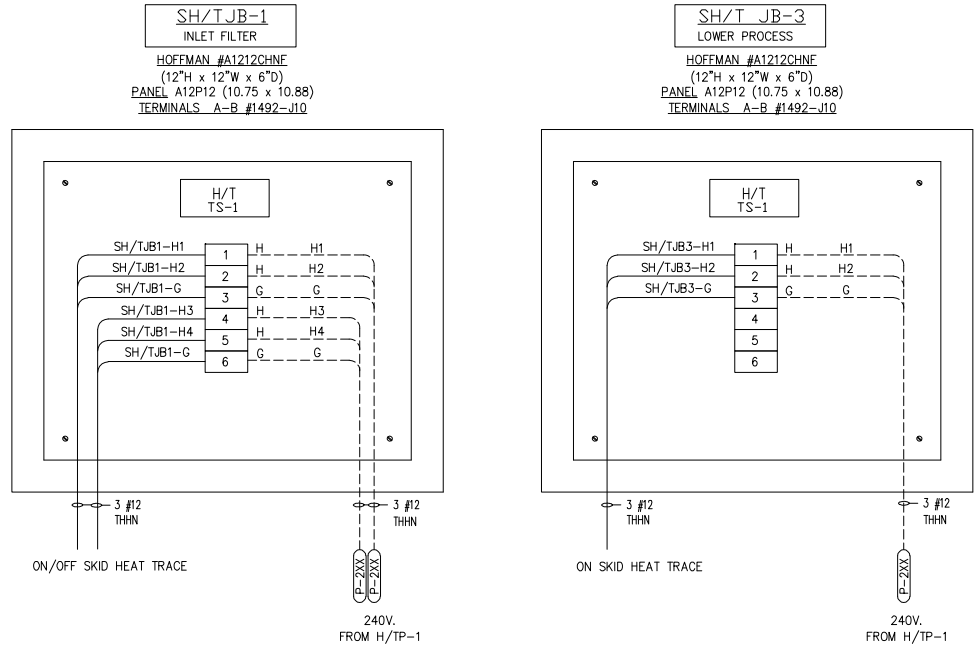
WIRING BY THOMAS RUSSELL CO.

WIRING BY FIELD

+
-
WHT WIRE
BK WIRE

CONDUIT NUMBER

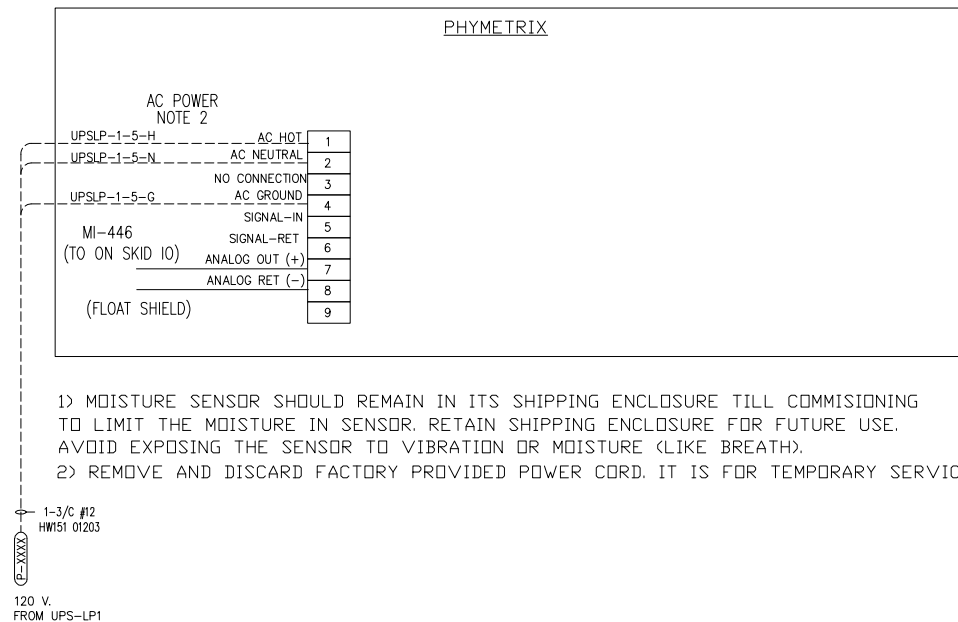
1-BPR, #18 IS/OAS INDIVIDUAL AND OVERALL SHIELD



NOTES

1. ALL CONDUIT .75" UNLESS OTHERWISE NOTED.
2. CONDUIT SIZED FROM HOUSTON WIRE AND CABLE.
3. SHOP TO LEAVE 10' OF HEAT TRACE FOR LINES LEAVING THE SKID.

TYPICAL MOISTURE ANALYZER WIRING



J-447
01/16/17
IFC

UOP RUSSELL
200 MMSOFT CRYO PLANT
WIRING DIAGRAM
PROCESS SKIDS #1 & #3 SH/T JB

OK P.E.# 4327

WY COM 00745-00
TX P.E.# F-7531

7000 S. York, Suite 210
Tomball, Texas 77456
Phone: 281-481-5682
Fax: 281-481-5621

UOP Russell

REV	DATE	DESCRIPTION	BY	DATE	DATE
0	01/28/2015	NONE	JLP	12/9/16	JLP
1	01/28/2015	ISSUE FOR FABRICATION	JLP	12/9/16	JLP

REVISIONS

CONFIDENTIALITY STATEMENT
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WIRE LEGEND

- WIRING BY UOP RUSSELL LLC.
— WIRING BY FIELD
+ WHT WIRE
- BK WIRE

- (1-XXXX) CONDUIT NUMBER
1-8PR. #18 IS/OAS INDIVIDUAL AND OVERALL SHIELD

JB 2
SKID 2
36x24x8

J-447
12/10/18
IFC

ANALOG
TS-1

FT402	+	1	+	FT402	—	ESD002	NO	1	NO	ESD002	—
FT402A	+	2	+	FT402A	—	LSHH402	C	2	C	LSHH402	—
FT402B	+	3	+	FT402B	—	LSHH402	C	3	C	LSHH402	—
FT481	+	4	+	FT481	—	LSHH404	C	4	C	LSHH404	—
FT501	+	5	+	FT501	—	LSHH404	C	5	C	LSHH404	—
FT602	+	6	+	FT602	—	LSHH481	C	6	C	LSHH481	—
FT781	+	7	+	FT781	—	LSHH481	C	7	C	LSHH481	—
LT402	+	8	+	LT402	—	LSHH492	C	8	C	LSHH492	—
LT404	+	9	+	LT404	—	LSHH492	C	9	C	LSHH492	—
PD101B	+	10	+	PD101B	—	LSL404	C	10	C	LSL404	—
PD1206B	+	11	+	PD1206B	—	PSHH601	C	11	C	PSHH601	—
PD1501	+	12	+	PD1501	—	PSHH601	C	12	C	PSHH601	—
PD1501B	+	13	+	PD1501B	—	PSHH602	C	13	C	PSHH602	—
PT101	+	14	+	PT101	—	PSHH602	C	14	C	PSHH602	—
PT101F	+	15	+	PT101F	—	ZS0101	C	15	C	ZS0101	—
PT201C	+	16	+	PT201C	—	ZS0101	C	16	C	ZS0101	—
PT301	+	17	+	PT301	—	ZS0402B	C	17	C	ZS0402B	—
PT402A	+	18	+	PT402A	—	ZS0402B	C	18	C	ZS0402B	—
PT481A	+	19	+	PT481A	—	ZS0404A	C	19	C	ZS0404A	—
PT501A	+	20	+	PT501A	—	ZS0404A	C	20	C	ZS0404A	—
PT501B	+	21	+	PT501B	—	ZS0404A	C	21	C	ZS0404A	—
PT501C	+	22	+	PT501C	—	ZS0404A	C	22	C	ZS0404A	—
PT602	+	23	+	PT602	—	ZS0404A	C	23	C	ZS0404A	—
PT991	+	24	+	PT991	—	ZS0404A	C	24	C	ZS0404A	—
SE101	+	25	+	SE101	—	ZS0404A	C	25	C	ZS0404A	—
IT501	+	26	+	IT501	—	ZS0404A	C	26	C	ZS0404A	—
VT301A	+	27	+	VT301A	—	ZS0404A	C	27	C	ZS0404A	—
VT301B	+	28	+	VT301B	—	ZS0404A	C	28	C	ZS0404A	—
FY402A	+	29	+	FY402A	—	ZS0404A	C	29	C	ZS0404A	—
FY501	+	30	+	FY501	—	ZS0404A	C	30	C	ZS0404A	—
LY402	+	31	+	LY402	—	ZS0404A	C	31	C	ZS0404A	—
LY404	+	32	+	LY404	—	ZS0404A	C	32	C	ZS0404A	—
PY101	+	33	+	PY101	—	ZS0404A	C	33	C	ZS0404A	—
PY402B	+	34	+	PY402B	—	ZS0404A	C	34	C	ZS0404A	—
PY481A	+	35	+	PY481A	—	ZS0404A	C	35	C	ZS0404A	—
PY501C	+	36	+	PY501C	—	ZS0404A	C	36	C	ZS0404A	—
PY501B	+	37	+	PY501B	—	ZS0404A	C	37	C	ZS0404A	—
TY201A	+	38	+	TY201A	—	ZS0404A	C	38	C	ZS0404A	—
TY201B	+	39	+	TY201B	—	ZS0404A	C	39	C	ZS0404A	—
TY501A	+	40	+	TY501A	—	ZS0404A	C	40	C	ZS0404A	—
TY501B	+	41	+	TY501B	—	ZS0404A	C	41	C	ZS0404A	—

22-1PR. #16 SHLD
HW101 01601

FROM ON
SKID DEVICES

19-1PR. #16 SHLD
HW101 01601

FROM OFF
SKID DEVICES

TO CONTROL
PANEL

20 #14
HW151 01416

FROM ON
SKID DEVICES

18 #14
HW151 01416

FROM OFF
SKID DEVICES

TO CONTROL
PANEL

10-1 TRIAD #16 SHLD
HW100 1601T

FROM ON
SKID DEVICES

12-1 TRIAD #16 SHLD
HW100 1601T

FROM OFF
SKID DEVICES

TO CONTROL
PANEL

25-1 TRIAD #16 SHLD

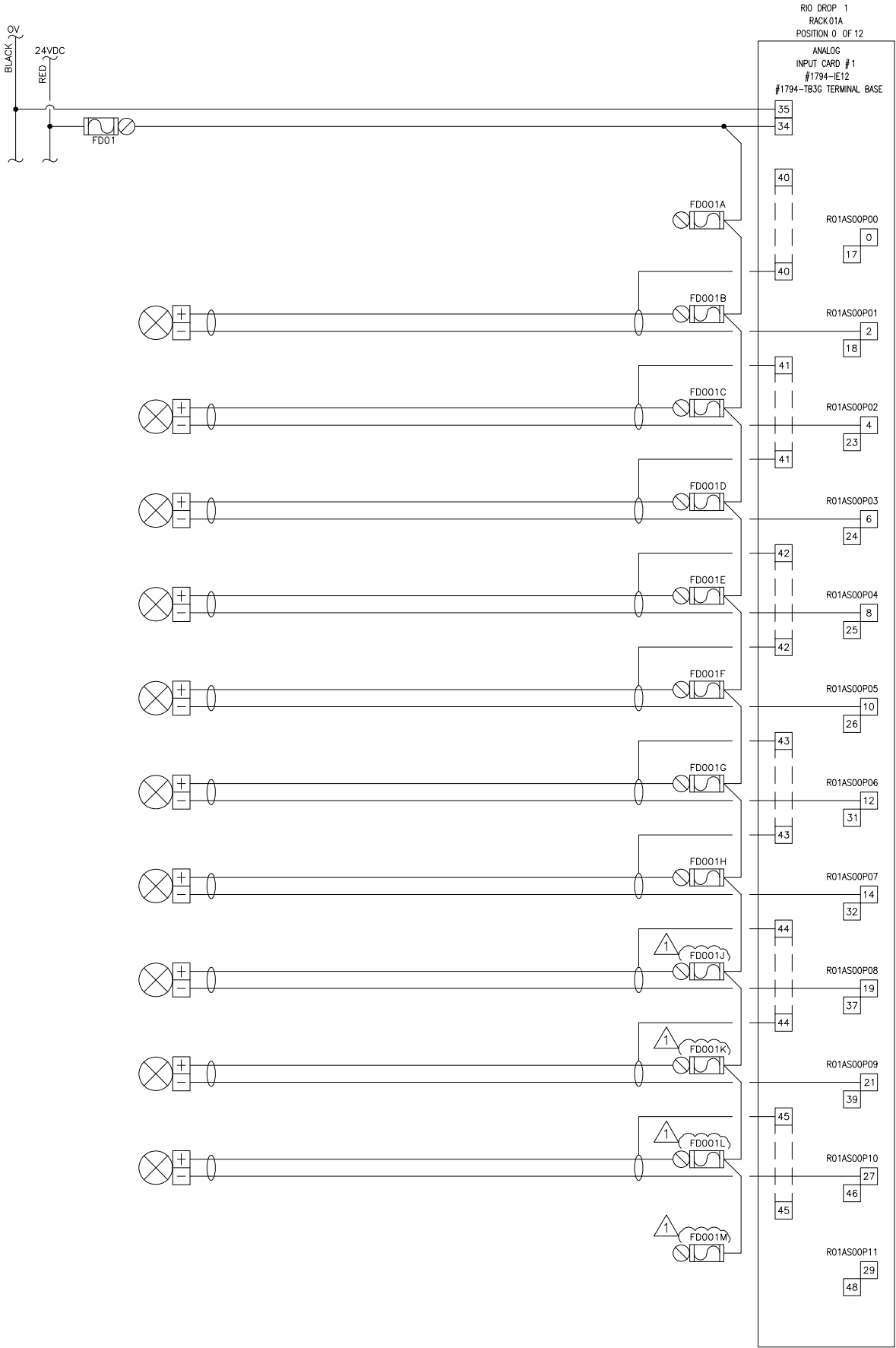
RTD
TS-3

TE101A	R	2	R	TE101A	—	ESD002	NO	1	NO	ESD002	—
TE101B	S	3	S	TE101B	—	LSHH402	C	2	C	LSHH402	—
TE101C	W	4	W	TE101C	—	LSHH402	C	3	C	LSHH402	—
TE101E	R	5	R	TE101E	—	LSHH404	C	4	C	LSHH404	—
TE201B	B	6	B	TE201B	—	LSHH404	C	5	C	LSHH404	—
TE201D	S	7	S	TE201D	—	LSHH481	C	6	C	LSHH481	—
TE204B	W	8	W	TE204B	—	LSHH481	C	7	C	LSHH481	—
TE204C	R	9	R	TE204C	—	LSHH492	C	8	C	LSHH492	—
TE202A	S	10	S	TE202A	—	LSHH492	C	9	C	LSHH492	—
TE101	W	11	W	TE101	—	LSL404	C	10	C	LSL404	—
TE202B	R	12	R	TE202B	—	PSHH601	C	11	C	PSHH601	—
TE101H	S	13	S	TE101H	—	PSHH601	C	12	C	PSHH601	—
TE205A	W	14	W	TE205A	—	PSHH602	C	13	C	PSHH602	—
TE205B	R	15	R	TE205B	—	PSHH602	C	14	C	PSHH602	—
TE205C	S	16	S	TE205C	—	ZS0101	C	15	C	ZS0101	—
TE206C	W	17	W	TE206C	—	ZS0101	C	16	C	ZS0101	—
TE202G	R	18	R	TE202G	—	ZS0402B	C	17	C	ZS0402B	—
TE207C	S	19	S	TE207C	—	ZS0402B	C	18	C	ZS0402B	—
TE301	W	20	W	TE301	—	ZS0404A	C	19	C	ZS0404A	—
TE402A	R	21	R	TE402A	—	ZS0404A	C	20	C	ZS0404A	—
TE501F	S	22	S	TE501F	—	ZS0404A	C	21	C	ZS0404A	—
TE501A	W	23	W	TE501A	—	ZS0404A	C	22	C	ZS0404A	—
TE501B	R	24	R	TE501B	—	ZS0404A	C	23	C	ZS0404A	—
TE501C	S	25	S	TE501C	—	ZS0404A	C	24	C	ZS0404A	—
TE501D	W	26	W	TE501D	—	ZS0404A	C	25	C	ZS0404A	—
TE501E	R	27	R	TE501E	—	ZS0404A	C	26	C	ZS0404A	—
TE501F	S	28	S	TE501F	—	ZS0404A	C	27	C	ZS0404A	—
TE501G	W	29	W	TE501G	—	ZS0404A	C	28	C	ZS0404A	—
TE501H	R	30	R	TE501H	—	ZS0404A	C	29	C	ZS0404A	—
TE501I	S	31	S	TE501I	—	ZS0404A	C	30	C	ZS0404A	—
TE501J	W	32	W	TE501J	—	ZS0404A	C	31	C	ZS0404A	—
TE501K	R	33	R	TE501K	—	ZS0404A	C	32	C	ZS0404A	—
TE501L	S	34	S	TE501L	—	ZS0404A	C	33	C	ZS0404A	—
TE501M	W	35	W	TE501M	—	ZS0404A	C	34	C	ZS0404A	—
TE501N	R	36	R	TE501N	—	ZS0404A	C	35	C	ZS0404A	—
TE501O	S	37	S	TE501O	—	ZS0404A	C	36	C	ZS0404A	—
TE501P	W	38	W	TE501P	—	ZS0404A	C	37	C	ZS0404A	—
TE501Q	R	39	R	TE501Q	—	ZS0404A	C	38	C	ZS0404A	—
TE501R	S	40	S	TE501R	—	ZS0404A	C	39	C	ZS0404A	—
TE501S	W	41	W	TE501S	—	ZS0404A	C	40	C	ZS0404A	—
TE501T	R	42	R	TE501T	—	ZS0404A	C	41	C	ZS0404A	—
TE501U	S	43	S	TE501U	—	ZS0404A	C	42	C	ZS0404A	—
TE501V	W	44	W	TE501V	—	ZS0404A	C	43	C	ZS0404A	—
TE501W	R	45	R	TE501W	—	ZS0404A	C	44	C	ZS0404A	—
TE501X	S	46	S	TE501X	—	ZS0404A	C	45	C	ZS0404A	—
TE501Y	W	47	W	TE501Y	—	ZS0404A	C	46	C	ZS0404A	—
TE501Z	R	48	R	TE501Z	—	ZS0404A	C	47	C	ZS0404A	—
TE501AA	S	49	S	TE501AA	—	ZS0404A	C	48	C	ZS0404A	—
TE501AB	W	50	W	TE501AB	—	ZS0404A	C	49	C	ZS0404A	—
TE501AC	R	51	R	TE501AC	—	ZS0404A	C	50	C	ZS0404A	—
TE501AD	S	52	S	TE501AD	—	ZS0404A	C	51	C	ZS0404A	—
TE501AE	W	53	W	TE501AE	—	ZS0404A	C	52	C	ZS0404A	—
TE501AF	R	54	R	TE501AF	—	ZS0404A	C	53	C	ZS0404A	—
TE501AG	S	55	S	TE501AG	—	ZS0404A	C	54	C	ZS0404A	—
TE501AH	W	56	W	TE501AH	—	ZS0404A	C	55	C	ZS0404A	—
TE501AI	R	57	R	TE501AI	—	ZS0404A	C	56	C	ZS0404A	—
TE501AJ	S	58	S	TE501AJ	—	ZS0404A	C	57	C	ZS0404A	—
TE501AK	W	59	W	TE501AK	—	ZS0404A	C	58	C	ZS0404A	—
TE501AL	R	60	R	TE501AL	—	ZS0404A	C	59	C	ZS0404A	—
TE501AM	S	61	S	TE501AM	—	ZS0404A	C	60	C	ZS0404A	—
TE501AN	W	62	W	TE501AN	—	ZS0404A	C	61	C	ZS0404A	—
TE501AO	R	63	R	TE501AO	—	ZS0404A	C	62	C	ZS0404A	—
TE501AP	S	64	S	TE501AP	—	ZS0404A	C	63	C	ZS0404A	—
TE501AQ	W	65	W	TE501AQ	—	ZS0404A	C	64	C	ZS0404A	—
TE501AR	R	66	R	TE501AR	—	ZS0404A	C	65	C	ZS0404A	—
TE501AS	S	67	S	TE501AS	—	ZS0404A	C	66	C	ZS0404A	—
TE501AT	W	68	W	TE501AT	—	ZS0404A	C	67	C	ZS0404A	—
TE501AU	R	69	R	TE501AU	—	ZS0404A	C	68	C	ZS0404A	—
TE501AV	S	70	S	TE501AV	—	ZS0404A	C	69	C	ZS0404A	—
TE501AW	W	71	W	TE501AW	—	ZS0404A	C	70	C	ZS0404A	—
TE501AX	R	72	R	TE501AX	—	ZS0404A	C	71	C	ZS0404A	—
TE501AY	S	73	S	TE501AY	—	ZS0404A	C	72	C	ZS0404A	—
TE501AZ	W	74	W	TE501AZ	—	ZS0404A	C	73	C	ZS0404A	—
TE501BA	R	75	R	TE501BA	—	ZS0404A	C	74	C	ZS0404A	—
TE501BB	S	76	S	TE501BB	—	ZS0404A	C	75	C	ZS0404A	—
TE501BC	W	77	W	TE501BC	—	ZS0404A	C	76	C	ZS0404A	—
TE501BD	R	78	R	TE501BD	—	ZS0404A	C	77	C	ZS0404A	—
TE501BE	S	79	S	TE501BE	—	ZS0404A	C	78	C	ZS0404A	—
TE501BF	W	80	W	TE501BF	—	ZS0404A	C	79	C	ZS0404A	—
TE501BG	R	81	R	TE501BG	—	ZS0404A	C	80	C	ZS0404A	—
TE501BH	S	82	S	TE501BH	—	ZS0404A	C	81	C	ZS0404A	—
TE501BI	W	83	W	TE501BI	—	ZS0404A	C	82	C	ZS0404A	—
TE501BJ	R	84	R	TE501BJ	—	ZS0404A	C	83	C	ZS0404A	—
TE501BK	S	85	S	TE501BK	—	ZS0404A	C	84	C	ZS0404A	—
TE501BL	W	86	W	TE501BL	—	ZS0404A	C	85	C	ZS0404A	—
TE501BM	R	87	R	TE501BM	—	ZS0404A	C	86	C	ZS0404A	—
TE501BN	S	88	S	TE501BN	—	ZS0404A	C	87	C	ZS0404A	—
TE501BO	W	89	W	TE501BO	—	ZS0404A	C	88	C	ZS0404A	—
TE501BP	R	90	R	TE501BP	—	ZS0404A	C	89	C	ZS0404A	—
TE501BQ	S	91	S	TE501BQ	—	ZS0404A	C	90	C	ZS0404A	—
TE501BR	W	92	W	TE501BR	—	ZS0404A	C	91	C	ZS0404A	—
TE501BS	R	93	R	TE501BS	—	ZS0404A	C	92	C	ZS0404A	—
TE501BT	S	94	S	TE501BT	—	ZS0404A	C	93	C	ZS0404A	—
TE501BU	W	95	W	TE501BU	—	ZS0404A	C	94	C	ZS0404A	—
TE501BV	R	96	R	TE501BV	—	ZS0404A	C	95	C	ZS0404A	—
TE501BW	S	97	S	TE501BW	—	ZS0404A	C	96	C	ZS0404A	—
TE501BX	W	98	W	TE501BX	—	ZS0404A	C	97	C	ZS0404A	—
TE501BY	R	99	R	TE501BY	—	ZS0404A	C	98	C	ZS0404A	—
TE501BZ	S	100	S	TE501BZ	—	ZS0404A	C	99	C	ZS0404A	—
TE501CA	W	101	W	TE501CA	—	ZS0404A	C	100	C	ZS0404A	—
TE501CB	R	102	R	TE501CB	—	ZS0404A	C	101	C	ZS0404A	—
TE501CC	S	103	S	TE501CC	—	ZS0404A	C	102	C	ZS0404A	—
TE501CD	W	104	W	TE501CD	—	ZS0404A	C	103	C	ZS0404A	—
TE501CE	R	105	R	TE501CE	—	ZS0404A	C	104	C	ZS0404A	—
TE501CF	S	106	S	TE501CF	—	ZS0404A	C	105	C	ZS0404A	—
TE501CG	W	107	W	TE501CG	—	ZS0404A	C	106	C	ZS0404A	—
TE501CH	R	108	R	TE501CH	—	ZS0404A	C	107	C	ZS0404A	—
TE501CI	S	109	S	TE501CI	—	ZS0404A	C	108	C	ZS0404A	—
TE501CJ	W	110	W	TE501CJ	—	ZS0404A	C	109	C	ZS0404A	—
TE501CK	R	111	R	TE501CK	—	ZS0404A	C	110	C	ZS0404A	—
TE501CL	S	112	S	TE501CL	—	ZS0404A	C	111	C	ZS0404A	—
TE501CM	W	113	W	TE501CM	—	ZS0404A	C	112	C	ZS0404A	—
TE501CN	R	114	R	TE501CN	—	ZS0404A	C	113	C	ZS0404A	—
TE501CO	S	115	S	TE501CO	—	ZS0404A	C	114	C	ZS0404A	—
TE501CP	W	116	W	TE501CP	—	ZS0404A	C	115	C	ZS0404A	—
TE501CQ	R	117	R	TE501CQ	—	ZS0404A	C	116	C	ZS0404A	—
TE501CR	S	118	S	TE501CR	—	ZS0404A	C	117	C	ZS0404A	—
TE501CS	W	119	W	TE501CS	—	ZS0404A	C	118	C	ZS0404A	—
TE501CT	R	120	R	TE501CT	—	ZS0404A	C	119	C	ZS0404A	—
TE501CU	S	121	S	TE501CU	—	ZS0404A	C	120	C	ZS0404A	—
TE501CV	W	122	W	TE501CV	—	ZS0404A	C	121	C	ZS0404A	—
TE501CW	R	123	R	TE501CW	—	ZS0404A	C	122	C	ZS0404A	—
TE501CX	S	124	S	TE501CX	—	ZS0404A	C	123	C	ZS0404A	—
TE501CY	W	125	W	TE501CY	—	ZS0404A	C	124	C	ZS0404A	—
TE501CZ	R	126	R	TE501CZ	—	ZS0404A	C	125	C	ZS0404A	—
TE501DA	S	127	S	TE501DA	—	ZS0404A	C	126	C	ZS0404A	—
TE501DB	W	128	W	TE501DB	—	ZS0404A	C	127	C	ZS0404A	—
TE501DC	R	129	R	TE501DC	—	ZS0404A	C	128	C	ZS0404A	—
TE501DD	S	130	S	TE501DD	—	ZS0404A	C	129	C	ZS0404A	—
TE501DE	W	131	W	TE501DE	—	ZS0404A	C	130	C	ZS0404A	—
TE501DF	R	132	R	TE501DF	—	ZS0404A	C	131	C	ZS0404A	—
TE501DG	S	133	S	TE501DG	—	ZS0404A	C	132	C	ZS0404A	—
TE501DH	W	134	W	TE501DH	—	ZS0404A	C	133	C	ZS0404A	—
TE501DI	R	135	R								

GENERAL NOTES

- PANEL / SKID WIRING
- - - FIELD WIRING
⊗ PANEL TERMINAL
○ DEVICE TERMINAL
⊗/⊕ FUSED TERMINAL
* SUPPLIED BY OTHERS

- IO TERMINAL
FIELD TERMINAL
SAME TERMINAL



J-447
10/31/17
REV

UOP RUSSELL										OK P.E.# 6852		WV COM# 004812-00		TX P.E.# F-7531		CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL IS A VIOLATION OF UOP RUSSELL'S PROPRIETARY RIGHTS AND IS SUBJECT TO CIVIL AND CRIMINAL PENALTIES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
60 MMSCD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP 1A - AI CARD #1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

GENERAL NOTES

- PANEL / SKID WIRING

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FIELD WIRING

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PANEL TERMINAL

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DEVICE TERMINAL

FUSED TERMINAL

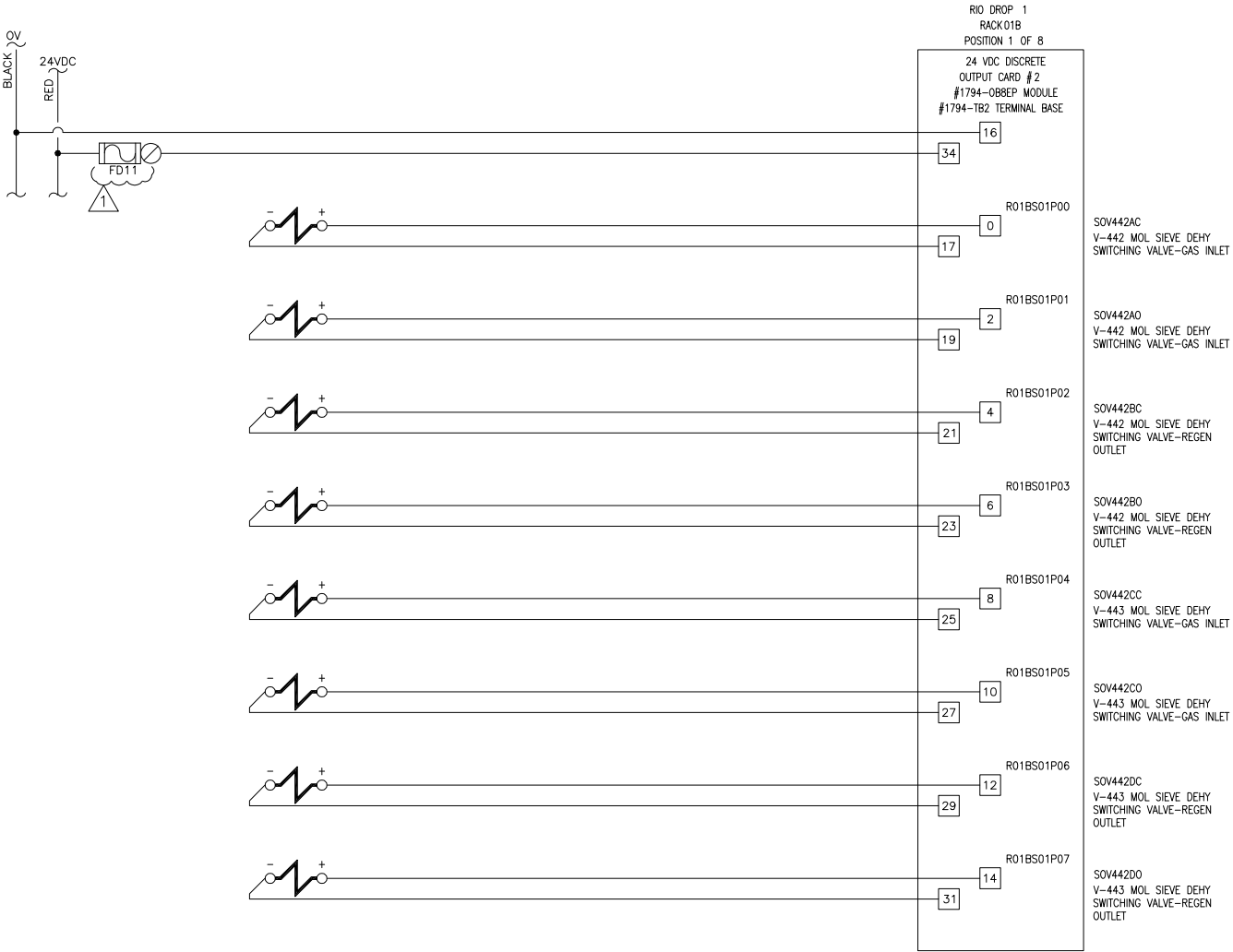
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SUPPLIED BY OTHERS
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IO TERMINAL

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FIELD TERMINAL

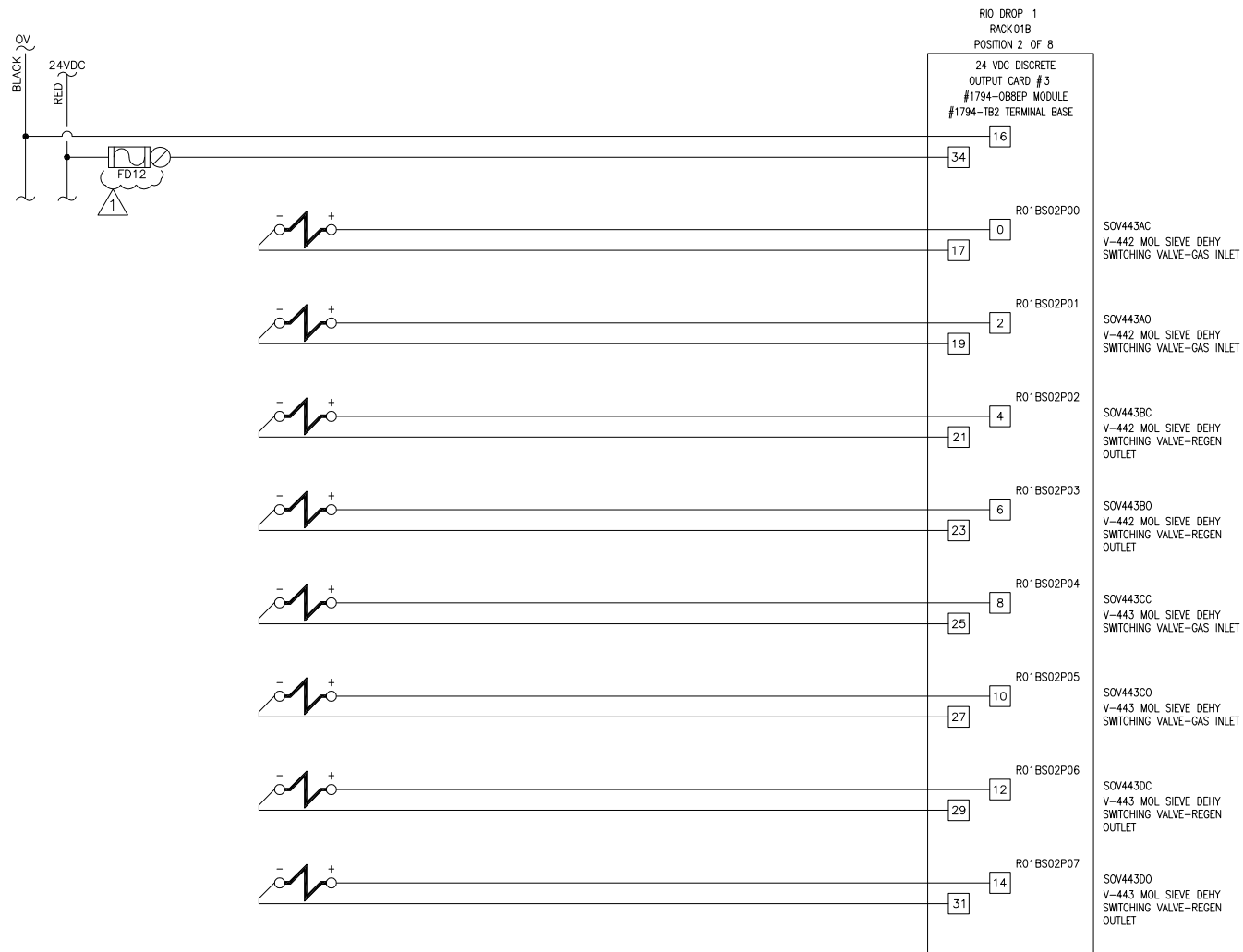


J-447
10/31/17
REV

UOP RUSSELL 60 MMSCFD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP RIB - DO CARD #2				OK P.E.# 6852	NY COM# C04812-00 TX P.E.# F-7531	CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC IS STRICTLY PROHIBITED. THIS DRAWING IS A TRADE SECRET AND IS SUBJECT TO A NON-DISCLOSURE AGREEMENT.			
REV.	DRAWING NO.	SCALE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
1	447-R01BS01	NONE	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
UOP RUSSELL				1	UPDATE AS NOTED	JRW	10/27/2017	JLP	10/27/2017
60 MMSCFD CRYO W/ REFRIG				0	ISSUE FOR FABRICATION	JLP	12/19/2016	JLP	12/19/2016
ELECTRICAL SCHEMATICS				BY	DESCRIPTION	BY	DATE	DATE	DATE
RIO DROP RIB - DO CARD #2				REV.	REVISIONS	REV.	DATE	DATE	DATE
7090 S. Yale, Suite 210 Tulsa, Oklahoma 74136				UOP Russell					
				Phone: 918-481-5582 Fax: 918-481-7427					

——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 □ FUSED TERMINAL
 * SUPPLIED BY OTHERS

#	IO TERMINAL
#	FIELD TERMINAL



J-447
10/31/17
REV

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REV.	ISSUED AS	SCALE	DATE BY	APPROV BY	DATE BY	APPROV BY
1	447-R01BS02	NONE	DATE 12/19/2016	APPROV BY 12/19/2016	DATE 12/19/2016	APPROV BY 12/19/2016

UOP RUSSELL
60 MWSCFD CRYO W/ REFRIG
ELECTRICAL SCHEMATICS
RIO DROP RIB - DO CARD #3

UOP RUSSELL

7050 S. York, Suite 210
Phoenix, Arizona 85042
Phone: 618-481-5685
Fax: 618-481-7427

OK P.E.# 6852

WV CODE 004812-00
TX P.E.# F-1531

REV

DESCRIPTION

REVISIONS

1	UPDATE AS NOTED	JRW	10/27/2017	JLP	10/27/2017
0	ISSUE FOR FABRICATION	JLP	12/19/2016	JLP	12/19/2016

GENERAL NOTES

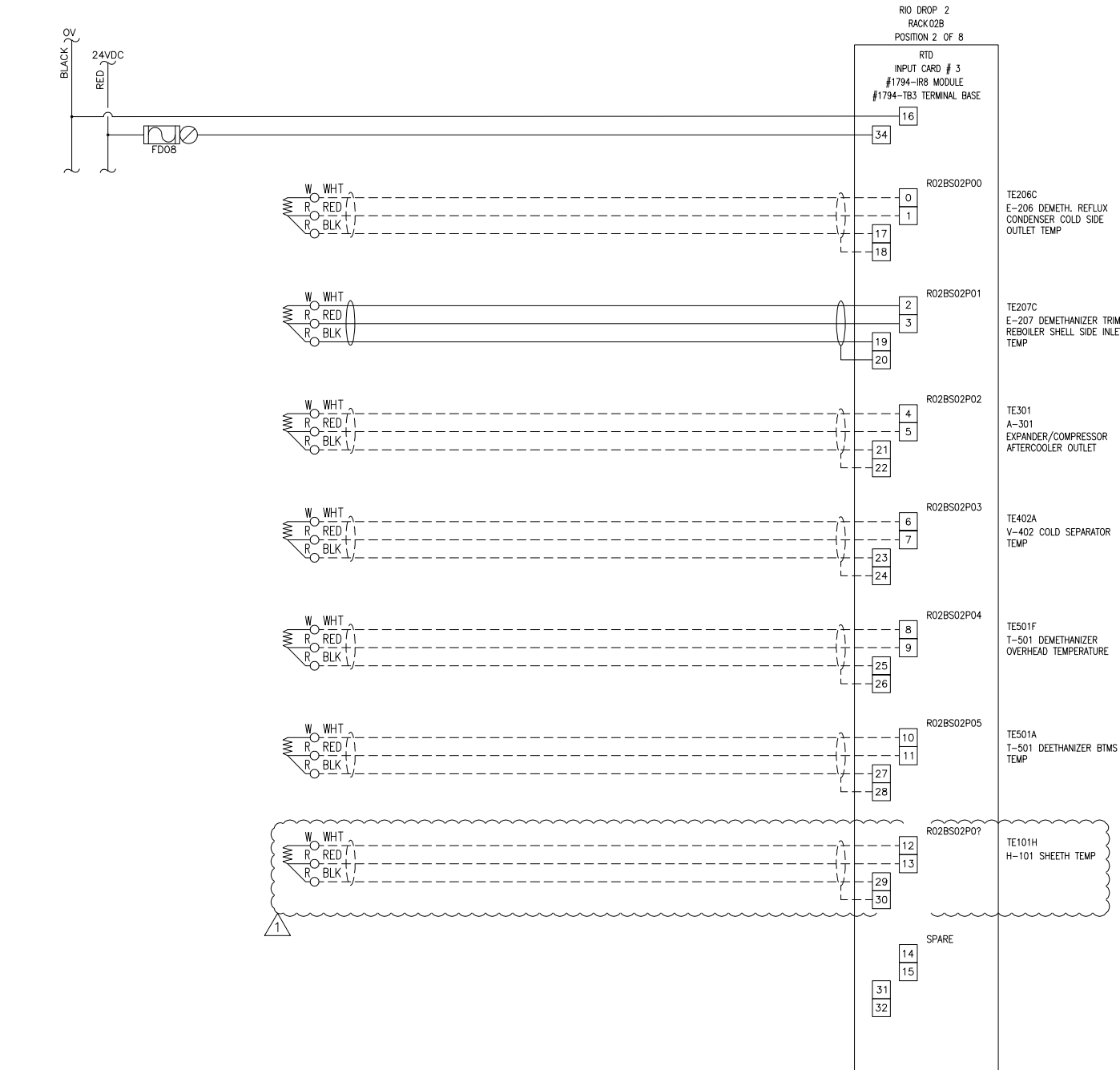
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GENERAL NOTES

- PANEL / SKID WIRING
- - - FIELD WIRING
○ PANEL TERMINAL
○ DEVICE TERMINAL
⊗ FUSED TERMINAL
* SUPPLIED BY OTHERS

- # IO TERMINAL
FIELD TERMINAL

SAME TERMINAL



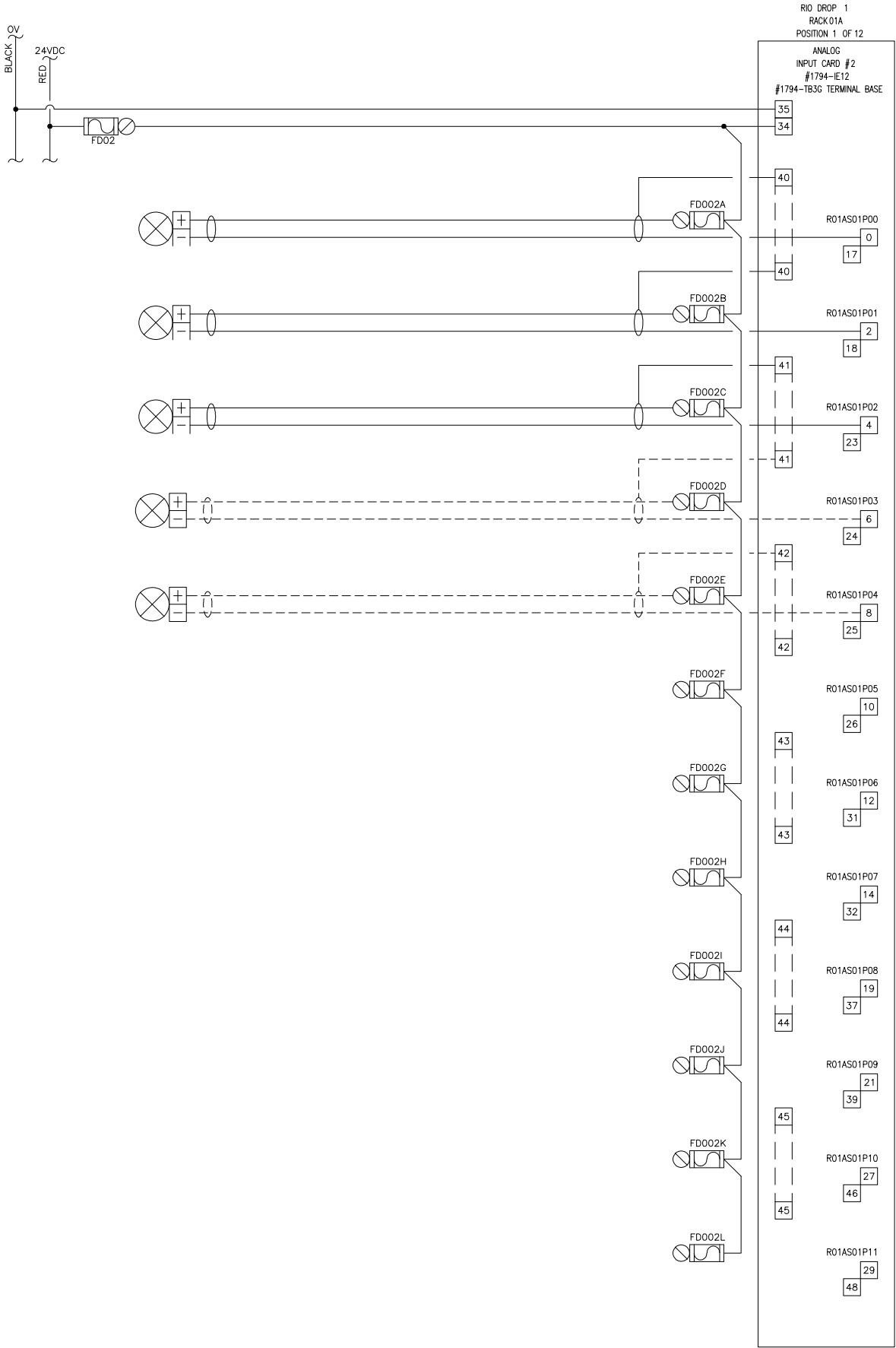
J-447
10/31/17
REV

UOP RUSSELL 60 MMSCED CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP R2B - RTD CARD #3				OK P.E.# 6852	REV COM# C04812-00 TX P.E.# F-7531	CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC IS STRICTLY PROHIBITED AND IS SUBJECT TO CIVIL AND CRIMINAL PENALTIES.			
REV.	DRAWING NO.	SCALE	DRAWN BY	CHECK BY	DATE	DATE	DATE	DATE	DATE
1	447-R02BS02	NONE	JLP	JLP	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
UOP RUSSELL 7050 S. Yale, Suite 210 Tulsa, Oklahoma 74136 Phone: 918-481-5582 Fax: 918-481-7427				UOP Russell					
1 UPDATE AS NOTED JRW 10/27/2017 JLP 10/27/2017				BY DATE APP'D					
0 ISSUE FOR FABRICATION JLP 12/19/2016 JLP 12/19/2016				DESCRIPTION REVISIONS					

GENERAL NOTES

- PANEL / SKID WIRING
--- FIELD WIRING
⊗ PANEL TERMINAL
○ DEVICE TERMINAL
⊗/⊔ FUSED TERMINAL
* SUPPLIED BY OTHERS

- ⌈ # ⌋ IO TERMINAL
⌈ # ⌋ FIELD TERMINAL
⌈ # ⌋
⌈ # ⌋ SAME TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL 60 MMSOCD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP 1A - AI CARD #2				OK P.E.# 6852				REV COM# C04812-01 TX P.E.# F-7531			
REV.	DRAWING NO.	SCALE	DRAWN BY	CHECK BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
0	447-R01AS01	NONE	JLP	JLP	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
				APPROV BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
				<APPROV>							
				DESCRIPTION	BY	DATE	DATE	DATE	DATE	DATE	DATE
				ISSUE FOR FABRICATION	JLP	12/19/2016	JLP	12/19/2016	JLP	12/19/2016	JLP
				REVISIONS	REV	DATE	DATE	DATE	DATE	DATE	DATE
				PT442	0						
				V-442 MOL SIEVE DEHYDRATOR INLET PRESSURE							
				PT443	2						
				V-442/3 MOL SIEVE DEHYDRATOR REGEN INLET PRESSURE							
				TT341	4						
				A-341 REGEN GAS COOLER OUTLET TEMP							
				VT341A	6						
				A-341 REGEN GAS COOLER FAN VIBRATION							
				VT341B	8						
				A-341 REGEN GAS COOLER FAN VIBRATION							
				SPARE	10						
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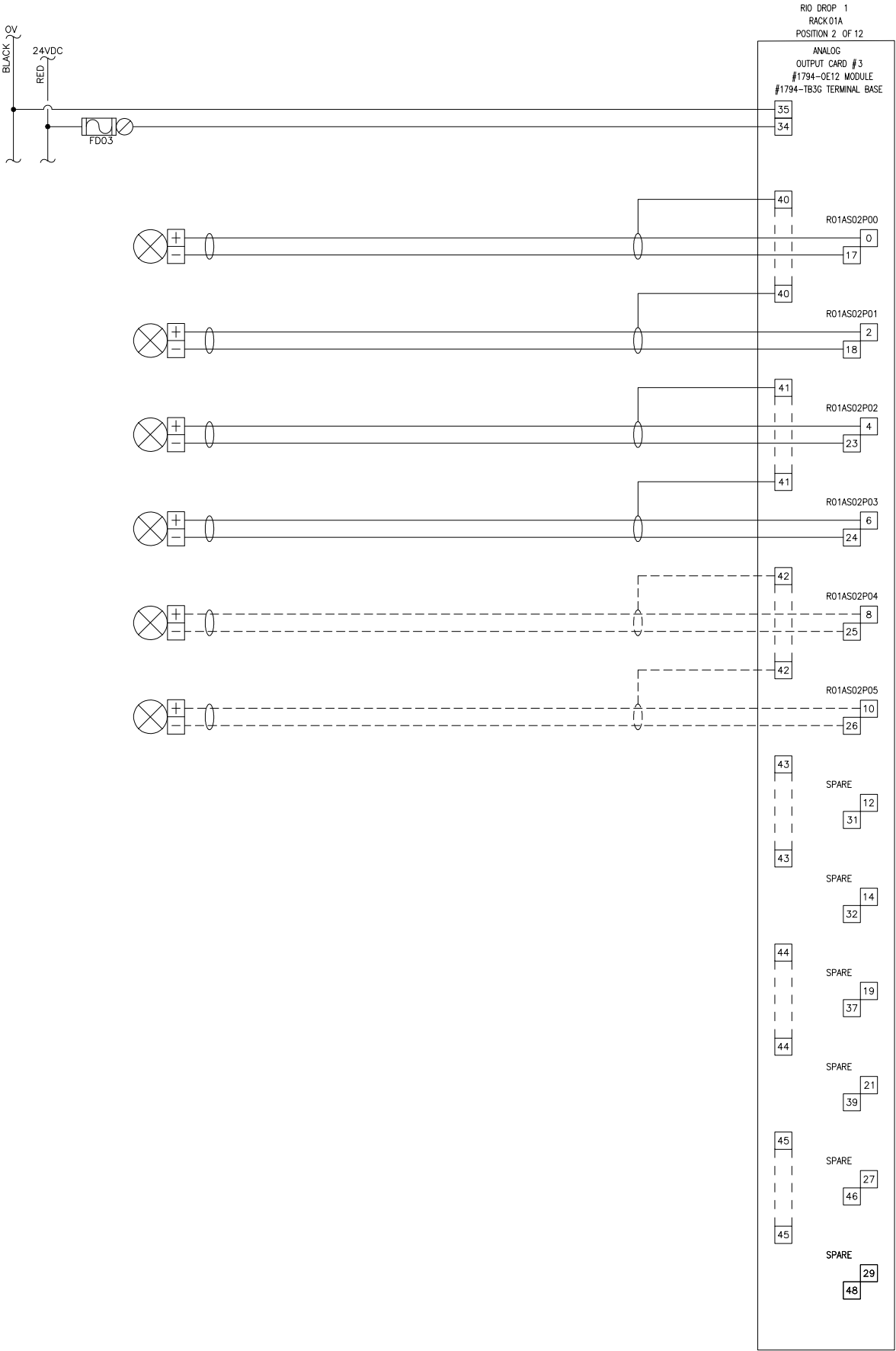
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GENERAL NOTES

- PANEL / SKID WIRING
- - - - FIELD WIRING
⊗ PANEL TERMINAL
○ DEVICE TERMINAL
⊗ FUSED TERMINAL
* SUPPLIED BY OTHERS

- # IO TERMINAL
FIELD TERMINAL

SAME TERMINAL



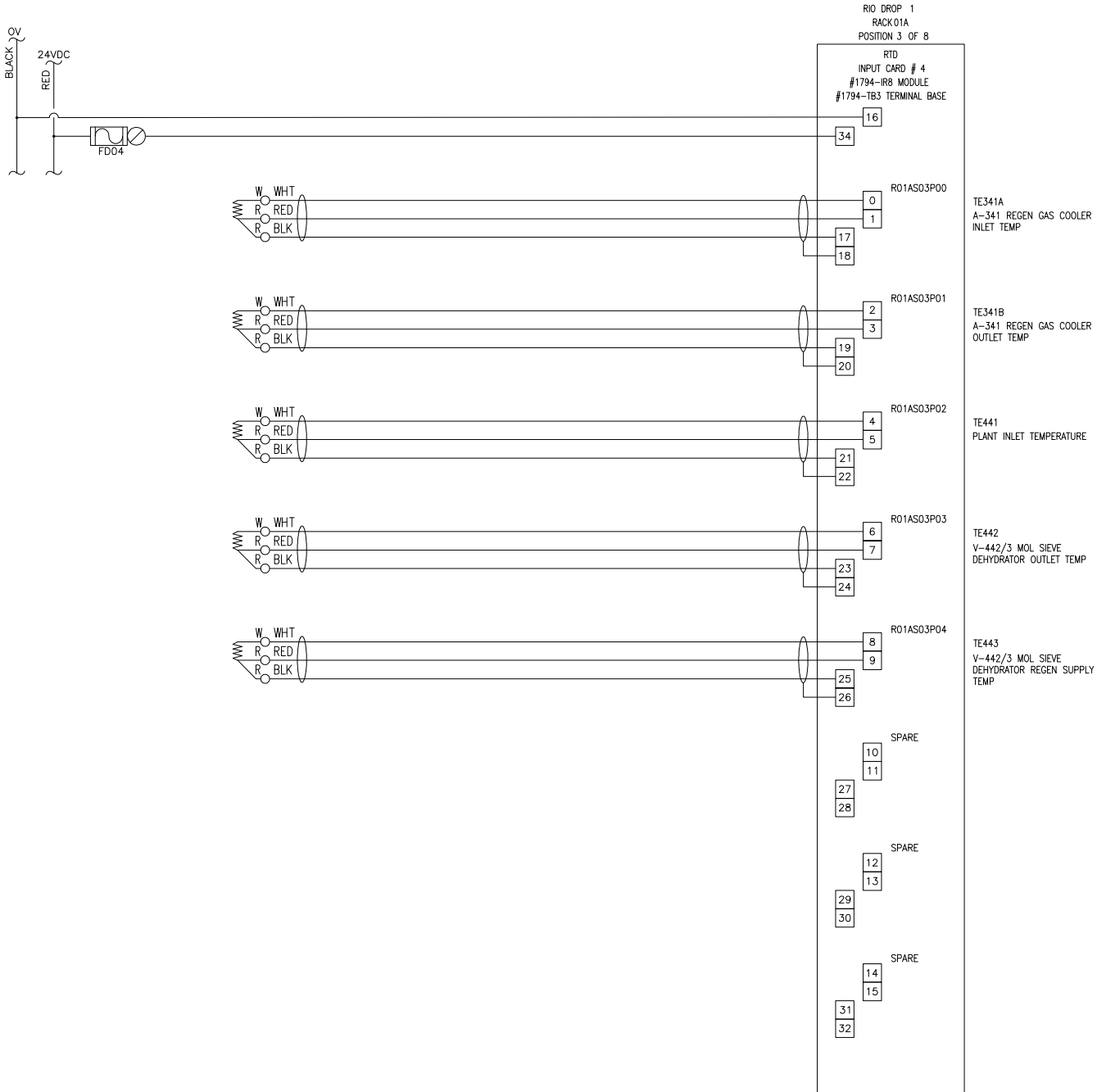
J-447
01/16/17
IFC

UOP RUSSELL 60 MMSGCD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP 1A - AO CARD #3										UOP RUSSELL 7090 S. Yale, Suite 210 Tulsa, Oklahoma 74136 Phone: 918-481-5982 Fax: 918-481-7427										UOP RUSSELL TX P.E.# F-7531										CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC IS STRICTLY PROHIBITED. THIS DRAWING IS A TRADE SECRET AND IS SUBJECT TO A NON-DISCLOSURE AGREEMENT. ANY VIOLATION OF THIS AGREEMENT MAY BE SUBJECT TO CIVIL AND CRIMINAL PENALTIES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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- # IO TERMINAL
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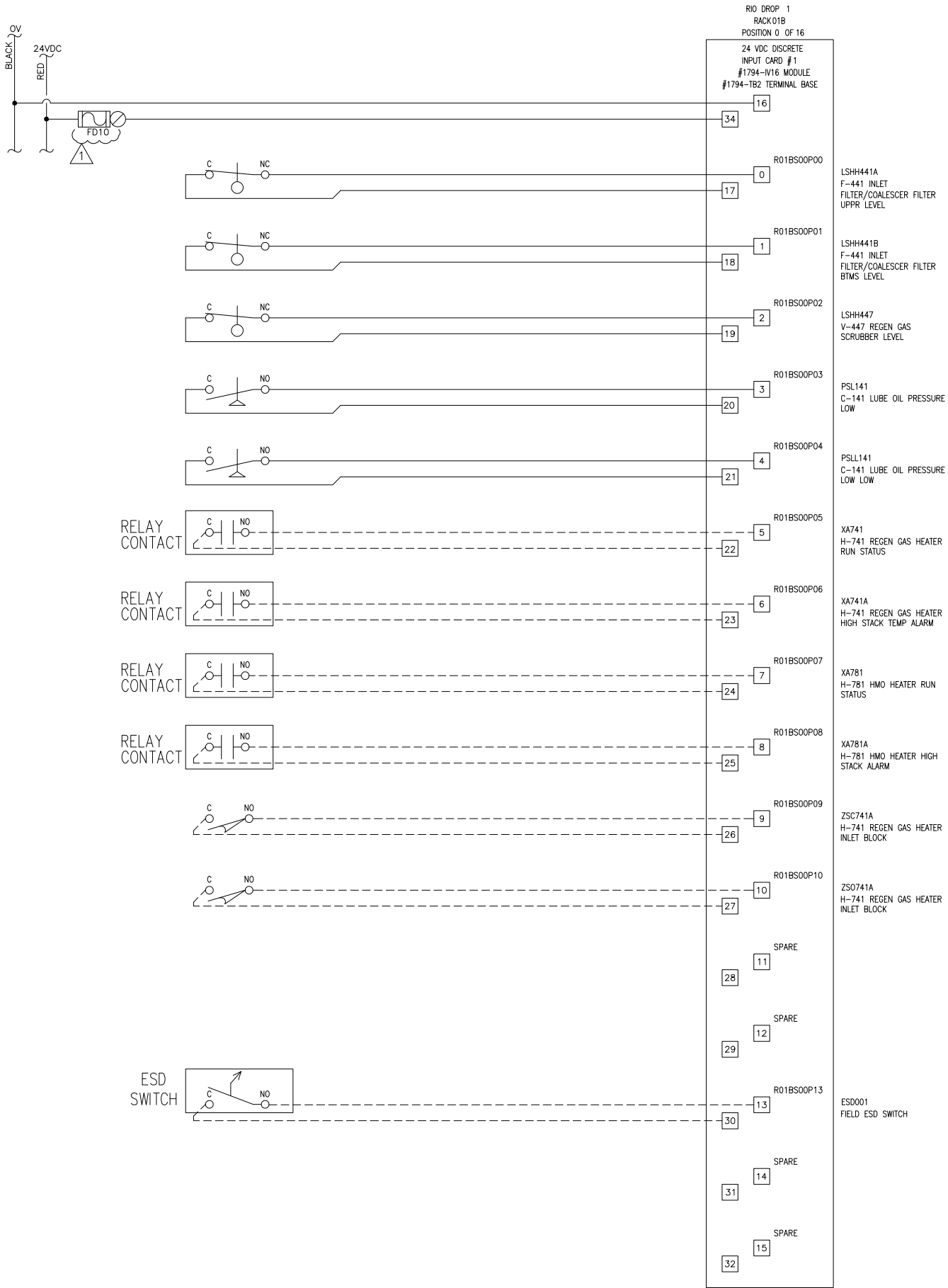


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UOP RUSSELL										OK P.E.# 6852		NW COM# C04812-00 TX P.E.# F-7531		UOP Russell										Phone: 918-481-5582 Fax: 918-481-7427																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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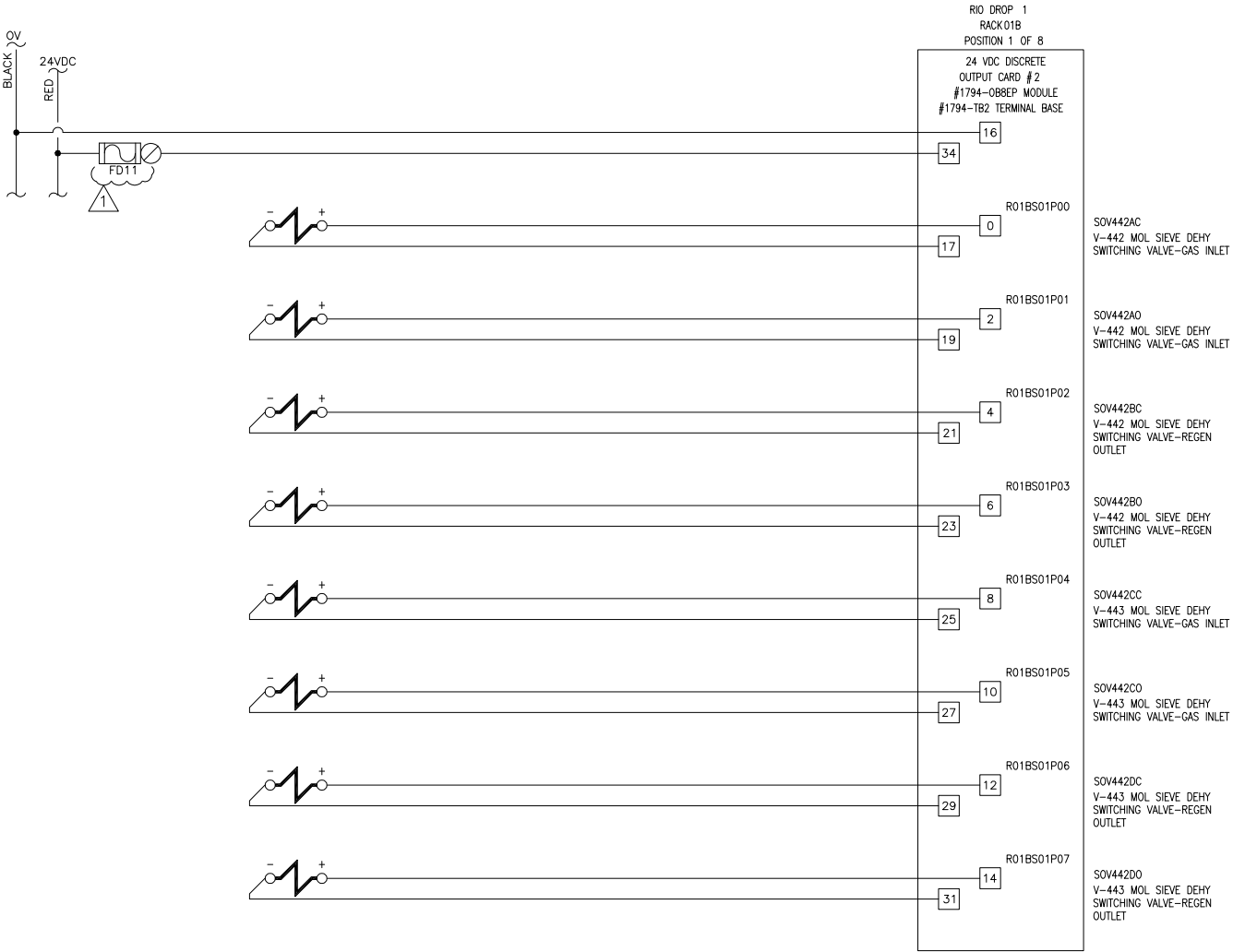
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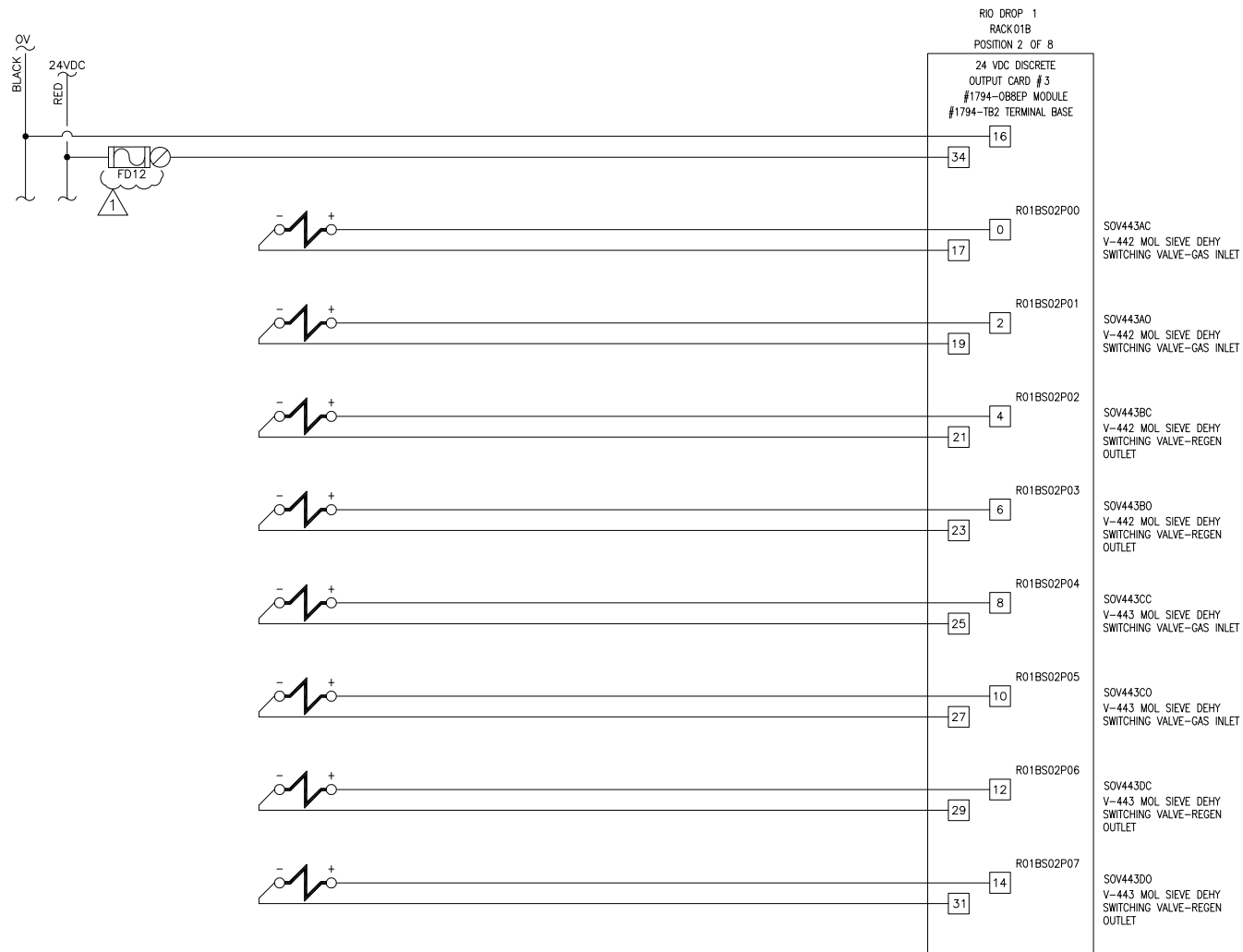


J-447
10/31/17
REV

UOP RUSSELL 60 MMSCED CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP RIB - DO CARD #2				OK P.E.# 6852	NY COM# C04812-00 TX P.E.# F-7531	CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC IS STRICTLY PROHIBITED. THIS DRAWING IS A TRADE SECRET AND IS SUBJECT TO A NON-DISCLOSURE AGREEMENT. ANY VIOLATION OF THIS AGREEMENT MAY BE SUBJECT TO CIVIL AND CRIMINAL PENALTIES.			
REV.	DRAWING NO.	SCALE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
1	447-R01BS01	NONE	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/19/2016
UOP RUSSELL 7090 S. Yale, Suite 210 Tulsa, Oklahoma 74136 Phone: 918-481-5582 Fax: 918-481-7427				UOP Russell					
1 UPDATE AS NOTED				JRW	10/27/2017	JLP	10/27/2017	JLP	10/27/2017
0 ISSUE FOR FABRICATION				JLP	12/19/2016	JLP	12/19/2016	JLP	12/19/2016
DESCRIPTION				BY	DATE	APP'D	DATE	DATE	DATE
REVISIONS				BY	DATE	APP'D	DATE	DATE	DATE

——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 □ FUSED TERMINAL
 * SUPPLIED BY OTHERS

#	IO TERMINAL
#	FIELD TERMINAL



J-447
10/31/17
REV

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REV.	ISSUED AS	SCALE	DATE BY	APPROV BY	DATE BY	APPROV BY	DATE
1	447-R01BS02	NONE	DATE 12/19/2016	APPROV BY JLP	DATE 12/19/2016	APPROV BY JLP	DATE 12/19/2016
UOP RUSSELL 60 MWSCFD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP RIB - DO CARD #3							
OK P.E.# 6852 WV CODE 004812-00 TX P.E.# F-1531 UOP Russell 7050 S. York, Suite 210 Phoenix, AZ 85042 Phone: 618-481-5685 Fax: 618-481-7427							
REV 1 UPDATE AS NOTED 0 ISSUE FOR FABRICATION DESCRIPTION REVISIONS							

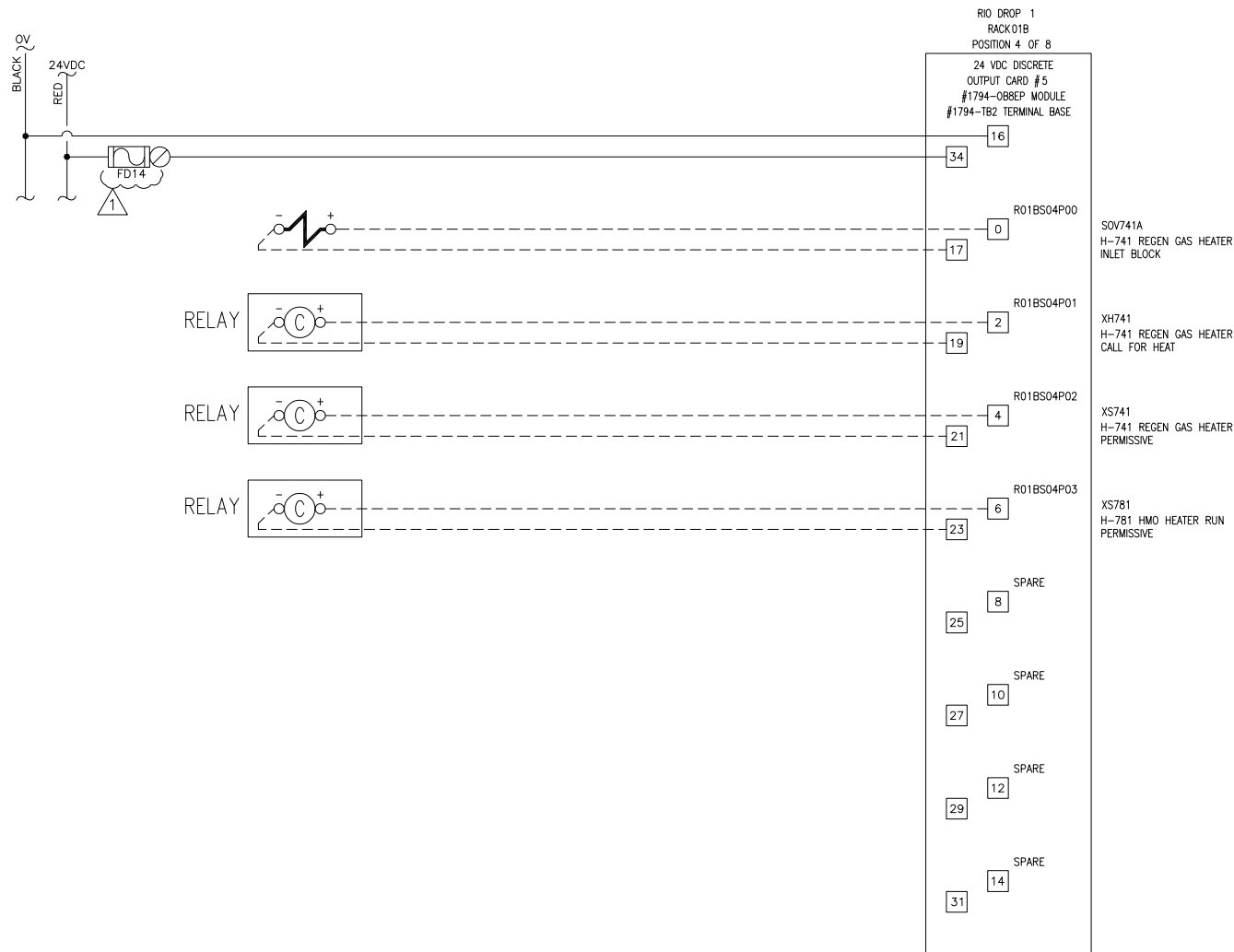


#	IO TERMINAL
#	FIELD TERMINAL

[illegible]

——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 □ FUSED TERMINAL
 * SUPPLIED BY OTHERS

#	IO TERMINAL
#	FIELD TERMINAL



J-447
10/31/17
REV

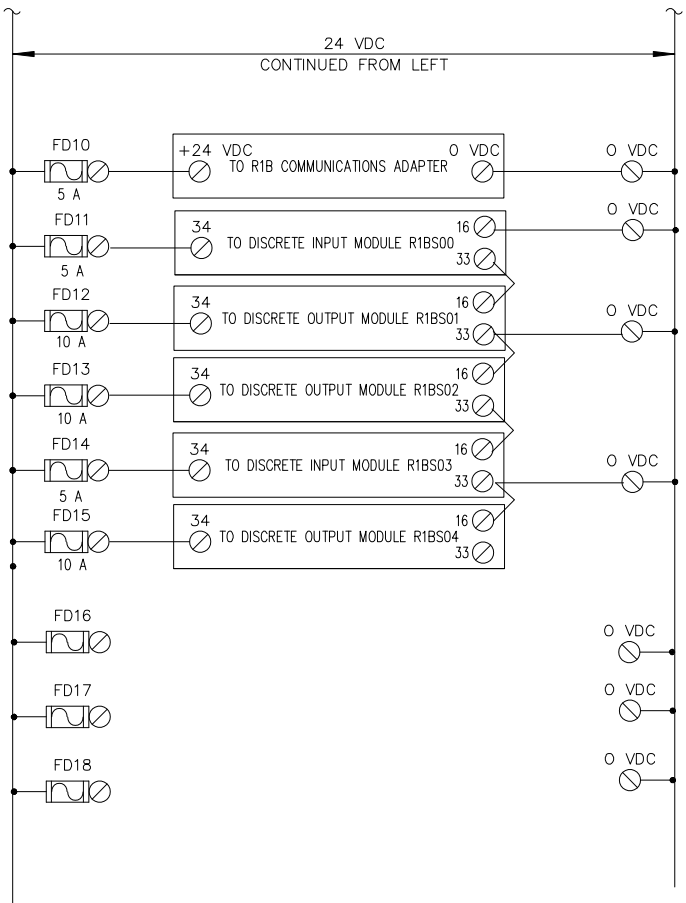
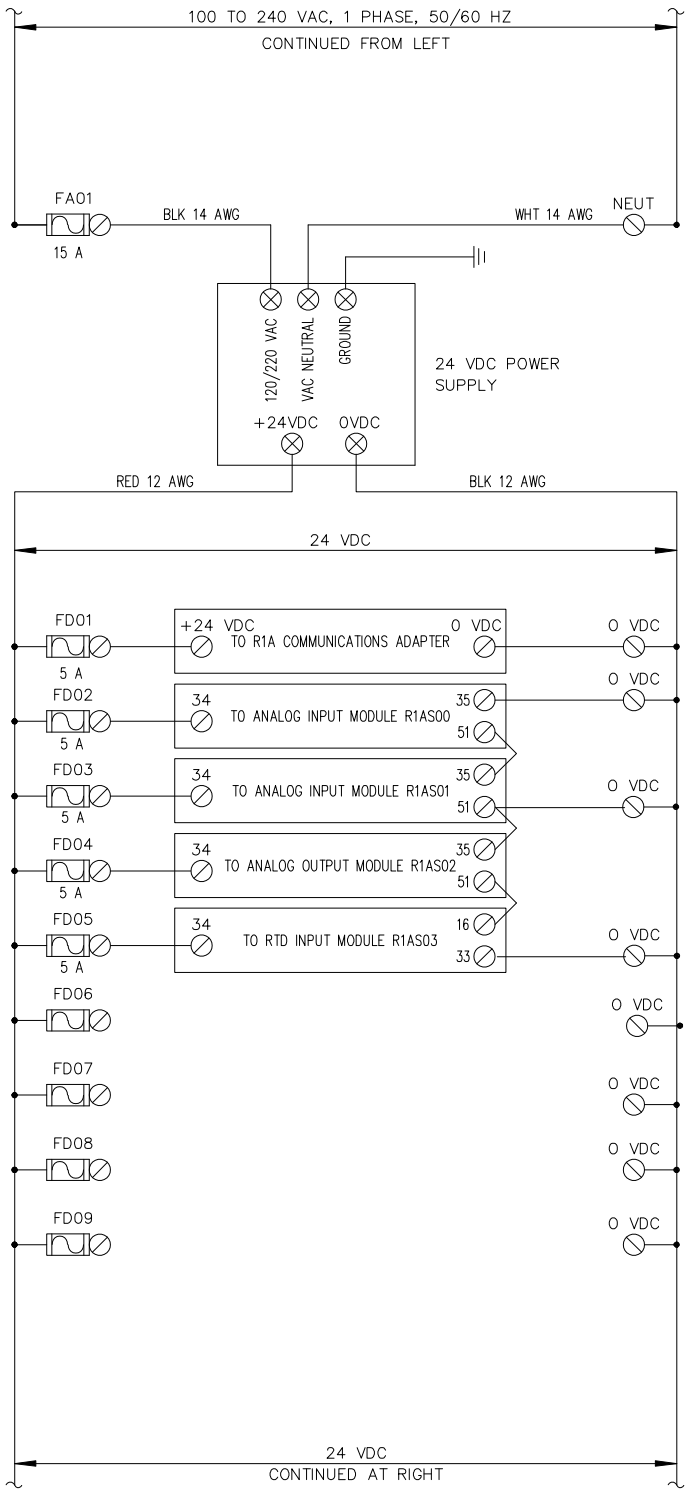
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[illegible]

GENERAL NOTES

- PANEL / SKID WIRING
- - - FIELD WIRING
- PANEL TERMINAL ○ DEVICE TERMINAL  FUSED TERMINAL
 IO TERMINAL  FIELD TERMINAL * SUPPLIED BY OTHERS



J-447
01/16/17
IFC

UOP RUSSELL				OK P.E.# 8862				WY COM# C04812-00			
60 MMSCF CRYO W/ REFRIG				TX P.E.# F-7531				1X P.E.# F-7531			
INLET/DEHY SKID RIO DROP 10											
POWER DISTRIBUTION											
SCALE	DATE	SCALE	DATE	SCALE	DATE	SCALE	DATE	SCALE	DATE	SCALE	DATE
0	09/29/2015	0	09/29/2015	0	09/29/2015	0	09/29/2015	0	09/29/2015	0	09/29/2015
447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE

UOP RUSSELL				OK P.E.# 8862				WY COM# C04812-00			
60 MMSCF CRYO W/ REFRIG				TX P.E.# F-7531				1X P.E.# F-7531			
INLET/DEHY SKID RIO DROP 10											
POWER DISTRIBUTION											
SCALE	DATE	SCALE	DATE	SCALE	DATE	SCALE	DATE	SCALE	DATE	SCALE	DATE
0	09/29/2015	0	09/29/2015	0	09/29/2015	0	09/29/2015	0	09/29/2015	0	09/29/2015
447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE	447-R010-PWR	NONE

CONFIDENTIALITY STATEMENT

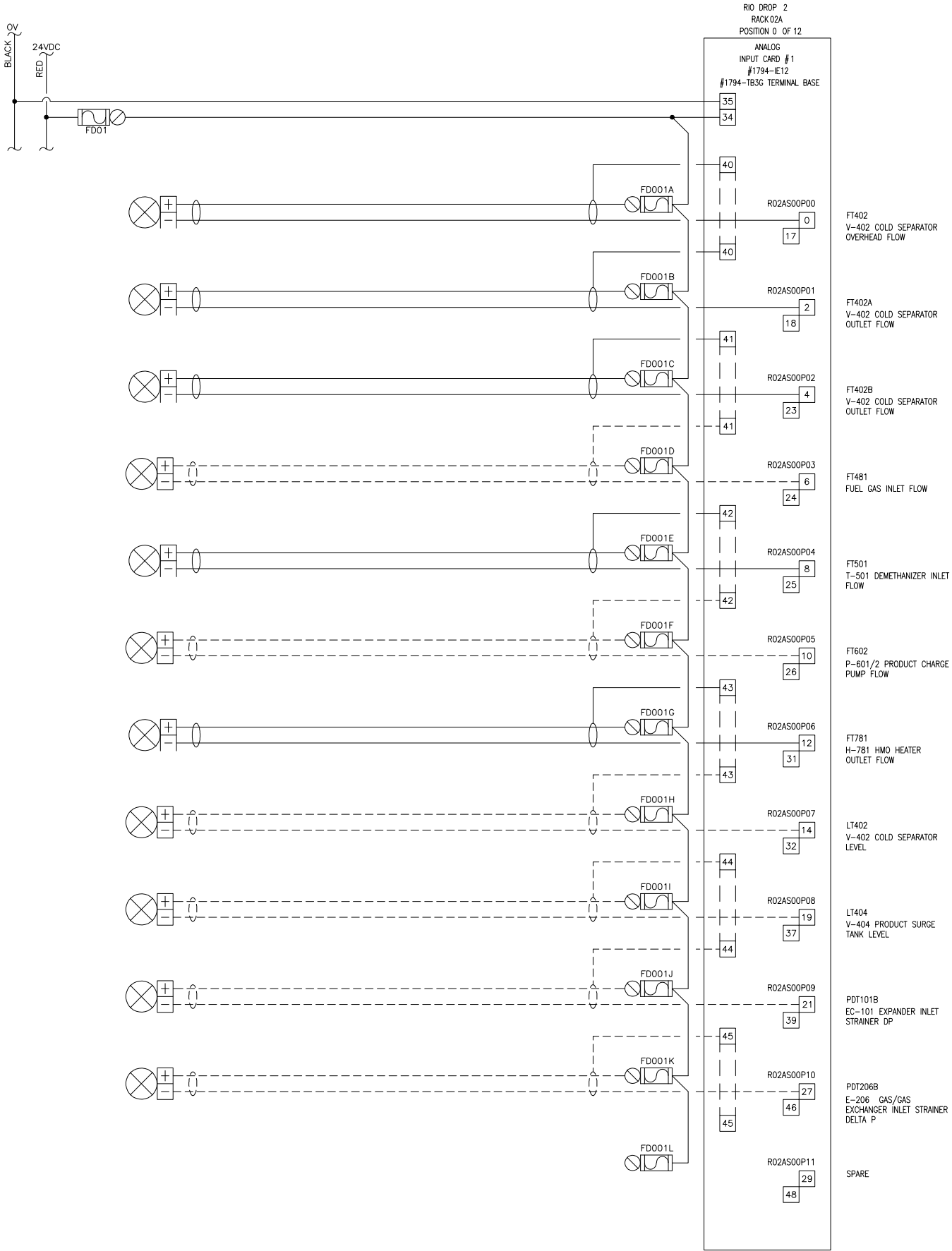
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GENERAL NOTES

- PANEL / SKID WIRING
- - - FIELD WIRING
⊗ PANEL TERMINAL
○ DEVICE TERMINAL
⊗/⊔ FUSED TERMINAL
* SUPPLIED BY OTHERS

- # IO TERMINAL
FIELD TERMINAL

SAME TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL										OK P.E.# 6852										UOP Russell 7050 S. Yale, Suite 210 Tulsa, Oklahoma 74136 Phone: 918-481-5582 Fax: 918-481-7427										TX P.E.# F-7531										NW COM# 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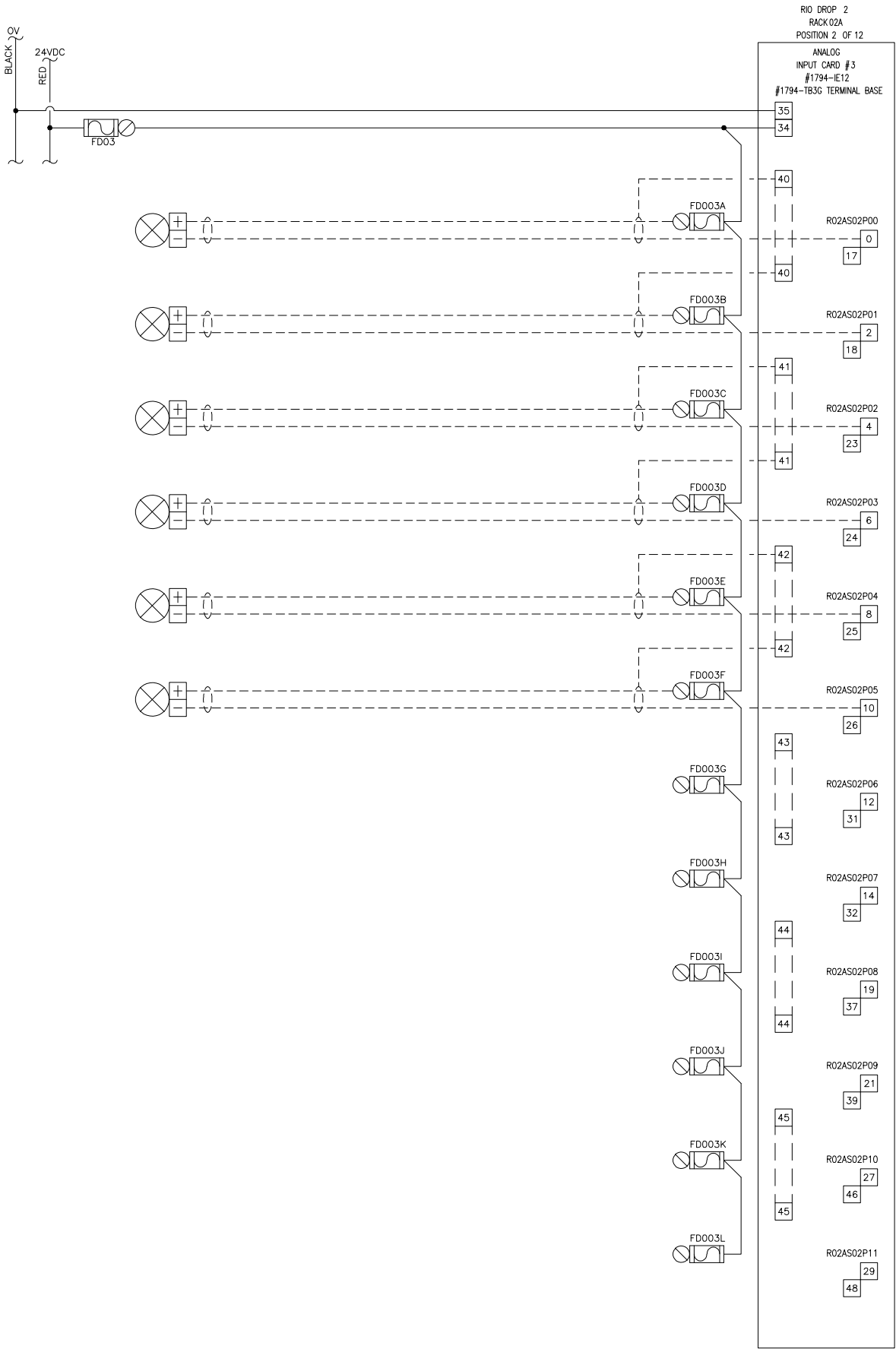
CONFIDENTIALITY STATEMENT
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GENERAL NOTES

- PANEL / SKID WIRING
--- FIELD WIRING
⊗ PANEL TERMINAL
○ DEVICE TERMINAL
⊗/⊔ FUSED TERMINAL
* SUPPLIED BY OTHERS

- # IO TERMINAL
FIELD TERMINAL

SAME TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL										OK P.E.# 6852		WV COM# C04812-00 TX P.E.# F-7531		CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND/OR EQUIPMENT DESCRIBED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC, IS STRICTLY PROHIBITED AND IS SUBJECT TO CIVIL AND CRIMINAL PENALTIES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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UOP RUSSELL 60 MMSQFD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP RZA - AO CARD #4														

GENERAL NOTES

- PANEL / SKID WIRING

FIELD WIRING

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PANEL TERMINAL

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DEVICE TERMINAL

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FUSED TERMINAL

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SUPPLIED BY OTHERS
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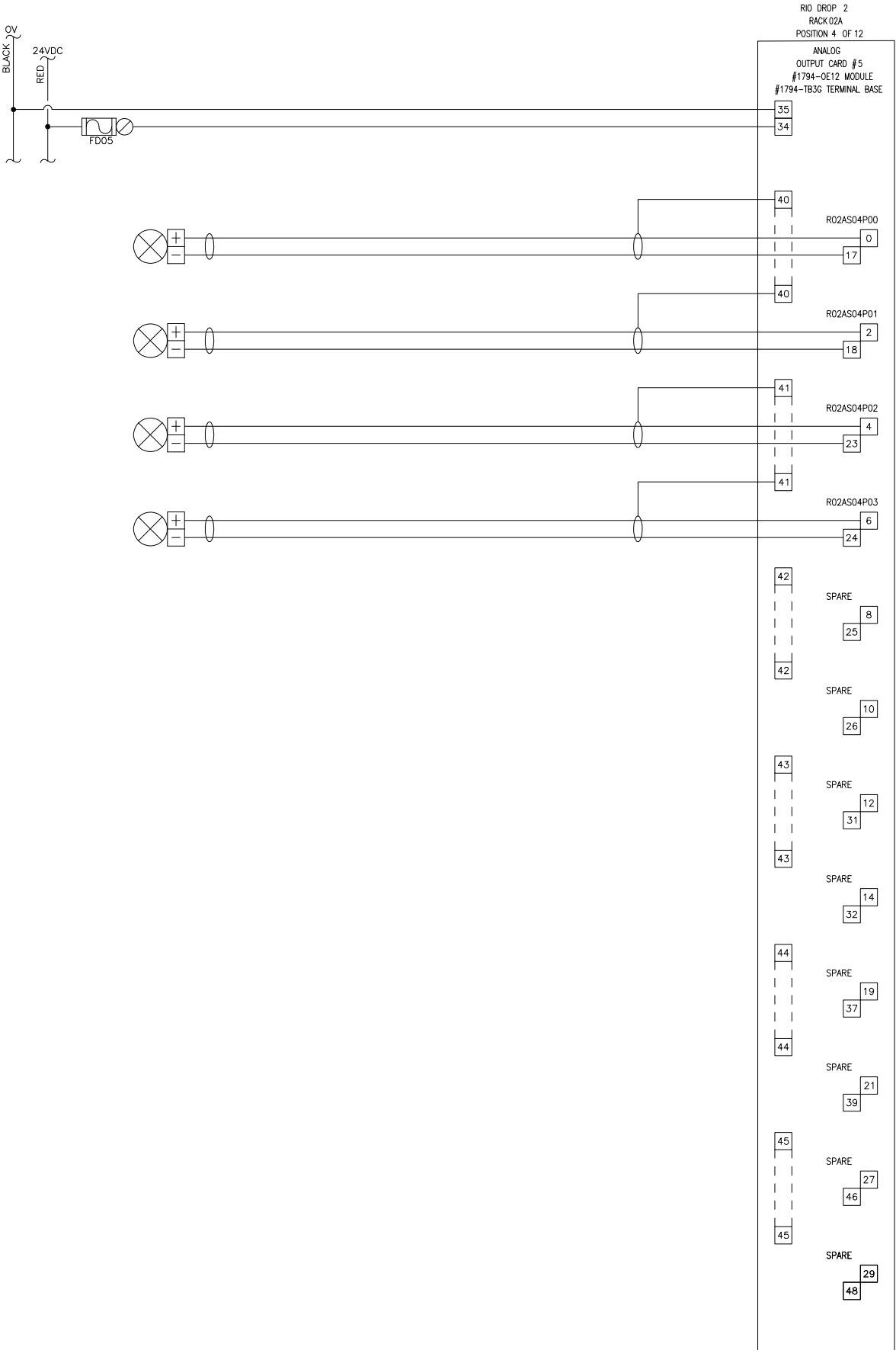
IO TERMINAL

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FIELD TERMINAL

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SAME TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL														OK P.E.# 6852				WV COM# C04812-00 TX P.E.# F-7531				CONFIDENTIALITY STATEMENT THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC IS A VIOLATION OF UOP RUSSELL, LLC'S PROPRIETARY RIGHTS AND IS SUBJECT TO CIVIL AND CRIMINAL PENALTIES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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——— PANEL / SKID WIRING
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 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 □ FUSED TERMINAL
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0	ISSUE FOR FABRICATION	JUL 12/19/2016	JUL 12/19/2016						
REV	DESCRIPTION	BY	DATE	APP'D	DATE				
REVISIONS									

OK P.E.# 6852
 NW CO.# C04812-00
 TX P.E.# F-7531

UOP Russell

7050 S. Yale, Suite 210
 Tulsa, Oklahoma 74136

Phone: 918-481-5882
 Fax: 918-481-7427

REV	CHANGE NO	DATE	ISSUED BY	JLP	APPROV BY	DATE	CHG'D BY	JLP
0	447-R02BS00	NONE				12/19/2016		



* SUPPLIED BY OTHERS

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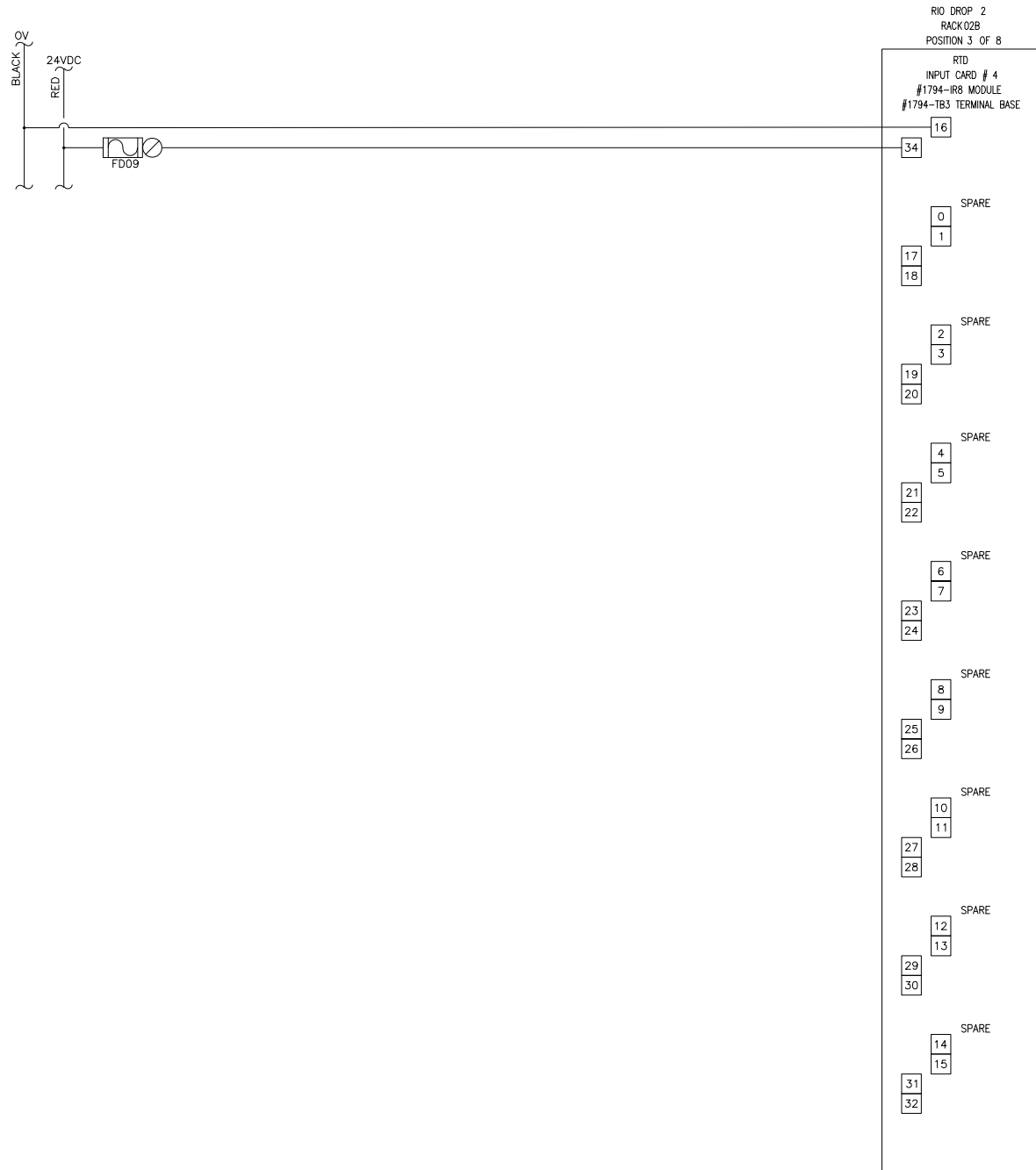
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J-447
10/31/17
REV

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——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 FUSED TERMINAL
 * SUPPLIED BY OTHERS

	IO TERMINAL
	FIELD TERMINAL
	SAME TERMINAL
	



J-447
01/16/17
IFC

[illegible]

GENERAL NOTES

- PANEL / SKID WIRING

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FIELD WIRING

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PANEL TERMINAL

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DEVICE TERMINAL

FUSED TERMINAL

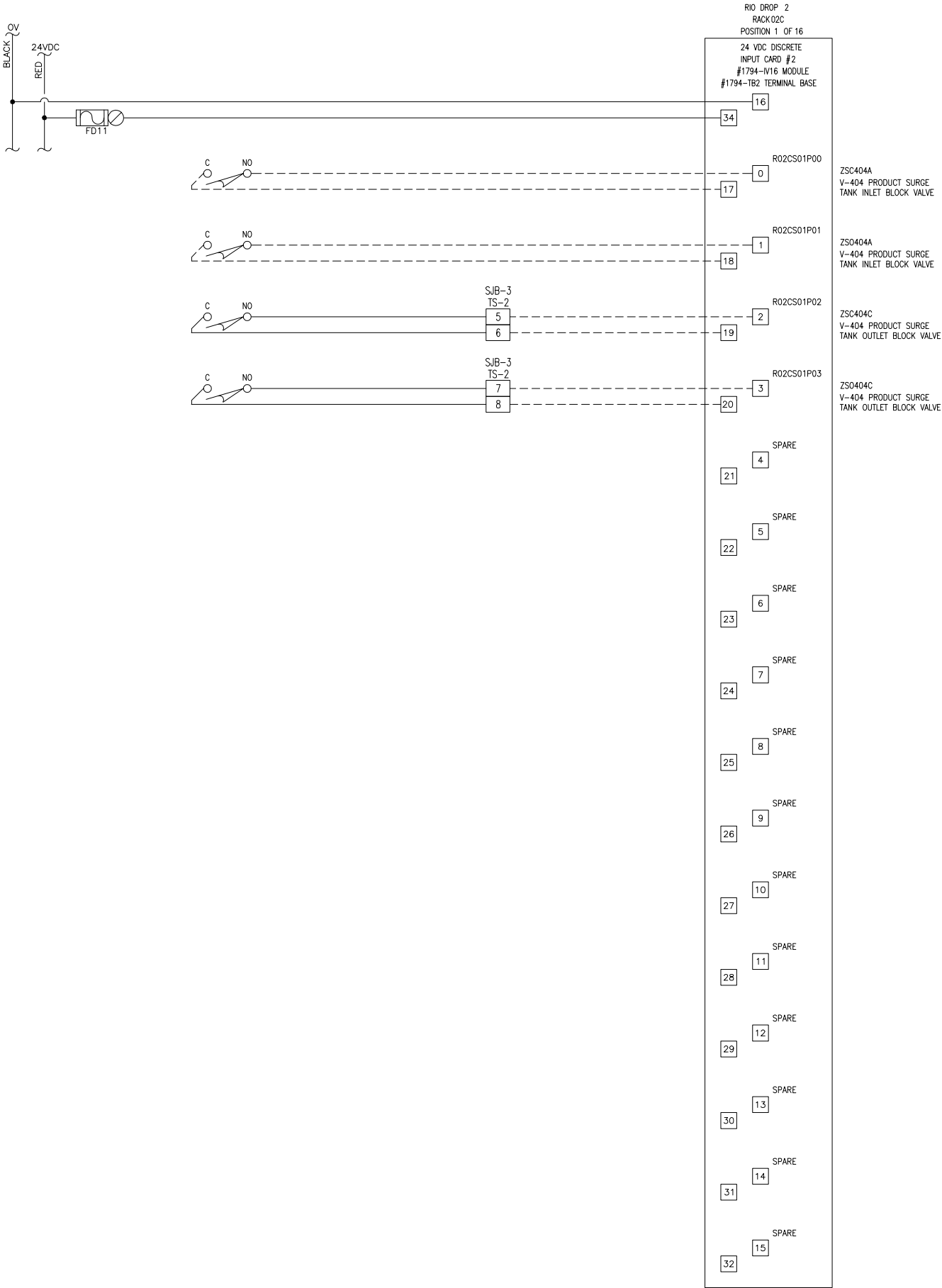
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SUPPLIED BY OTHERS
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IO TERMINAL

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FIELD TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL
60 MMSCED CRYO W/ REFRIG
ELECTRICAL SCHEMATICS
RIO DROP R2C - DI CARD #2

REV.

0

447-R02CS01

NONE

DATE

12/19/2016

BY

JLP

DATE

12/19/2016

BY

JLP

DATE

12/19/2016

BY

JLP

OK P.E.# 6852

TX P.E.# F-7531

UOP Russell

7090 S. Yale, Suite 210
Tulsa, Oklahoma 74136

Phone: 918-481-5582
Fax: 918-481-7427

0

ISSUE FOR FABRICATION

DATE

12/19/2016

BY

JLP

DATE

12/19/2016

APP'D

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——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 FUSED TERMINAL
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REV	DESCRIPTION	BY	DATE	APP'D	DATE
REVISIONS					
0	ISSUE FOR FABRICATION	JLP	12/19/2016	JLP	12/19/2016

WK P.E.# 6852
 NW CO.# 004812-00
 TX P.E.# F-7531
UOP Russell
 7050 S. Yale, Suite 210
 Tulsa, Oklahoma 74136
 Phone: 918-481-5882
 Fax: 918-481-7427

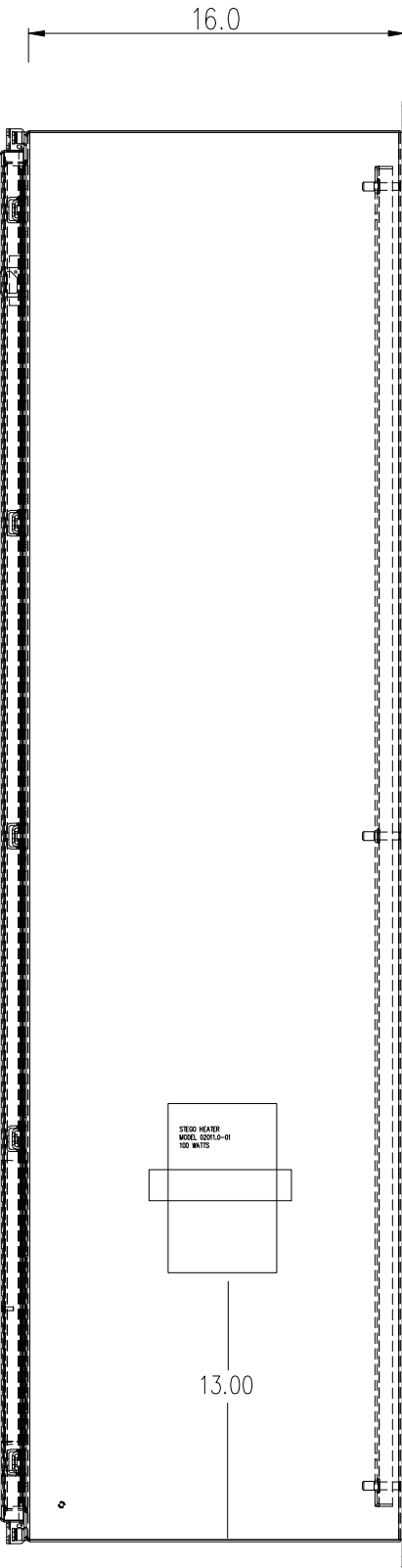
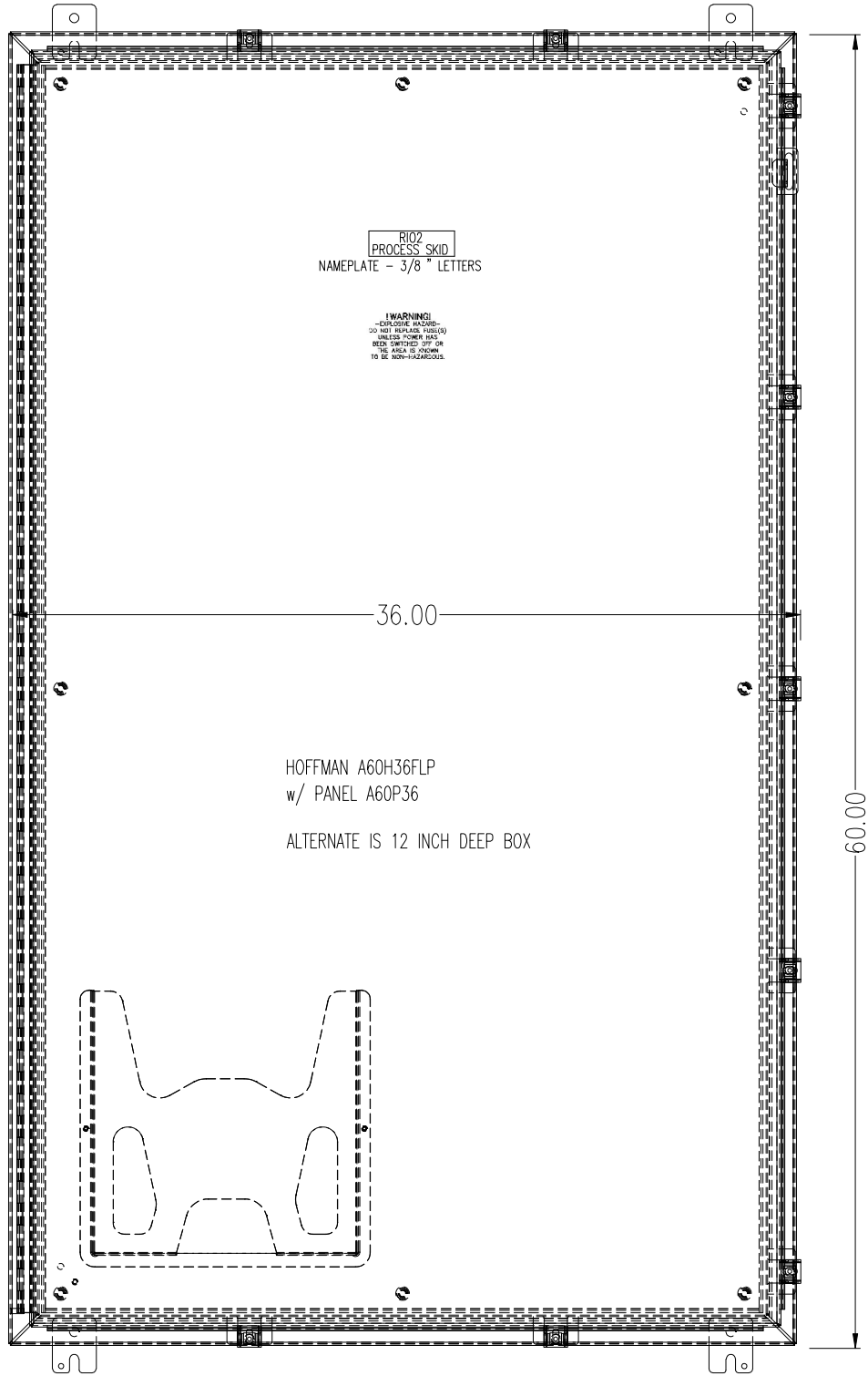
REV	CHANGE NO	DATE	ISSUED BY	JLP	APPROV BY	DATE	CHG'D BY	JLP
0	447-R02CS02	NONE	DATE	12/19/2016	APPROV BY	DATE	12/19/2016	

——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 □ FUSED TERMINAL
 * SUPPLIED BY OTHERS

[illegible]

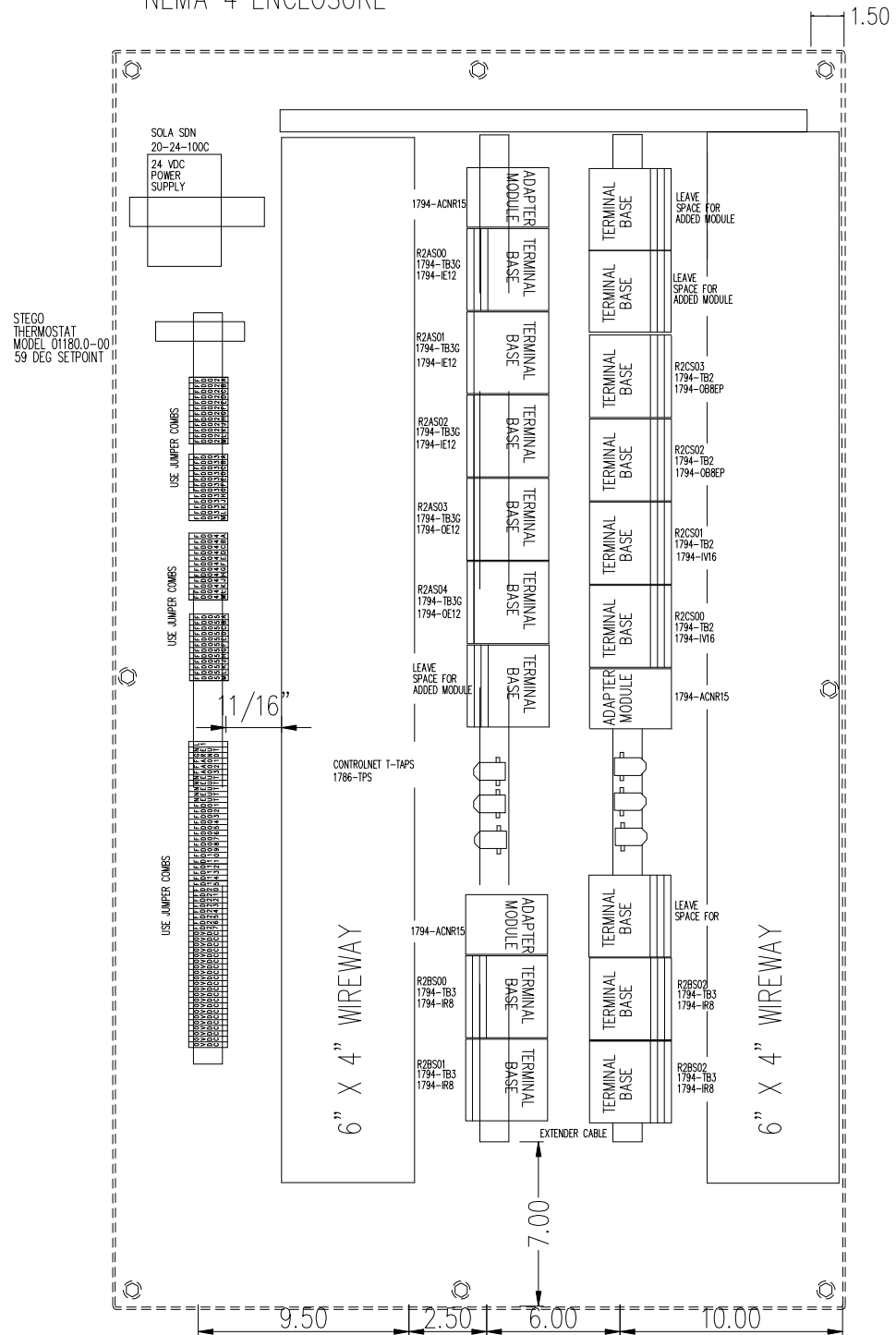
GENERAL NOTES

- PANEL / SKID WIRING
- - - FIELD WIRING
○ PANEL TERMINAL
□ IO TERMINAL
○ DEVICE TERMINAL
□ FIELD TERMINAL
⊗ FUSED TERMINAL
* SUPPLIED BY OTHERS



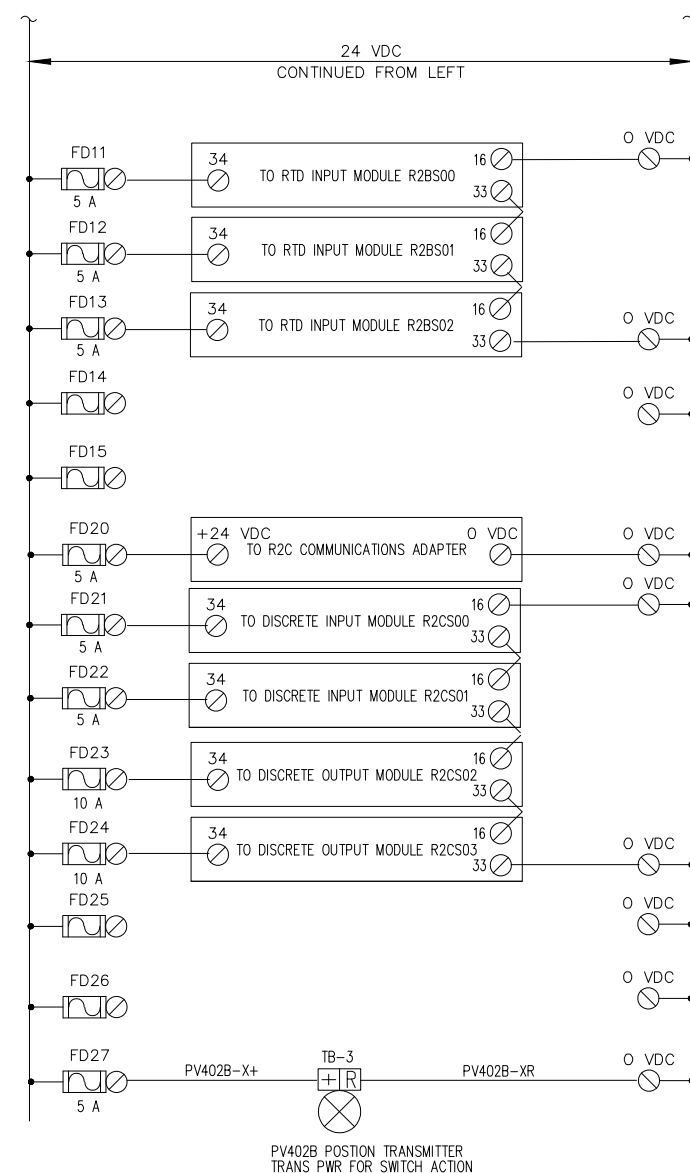
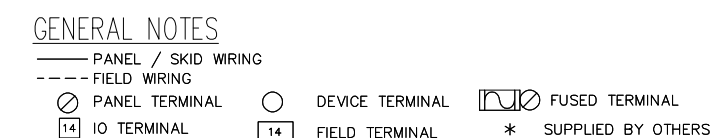
NOTE: INSULATE BACK OF PANEL WITH 1/2' FOAM BOARD.

NEMA 4 ENCLOSURE



J-447
01/16/17
IFC

UOP RUSSELL 60 MMSFD CRYO W/ REFRIG PROCESS SKID RIO DROP 2 PANEL LAYOUT				OK P.E.# 8802 TX P.E.# F-7531 WY COM# C04817-00			
SCALE	DRAWN BY	CHKD BY	DATE	SCALE	DRAWN BY	CHKD BY	DATE
0	447-R02-PNL	NONE	09/29/2015	0	447-R02-PNL	NONE	09/29/2015
REVISION	DESCRIPTION	BY	DATE	REVISION	DESCRIPTION	BY	DATE
0	ISSUE FOR FABRICATION	JLP	12/19/16	0	ISSUE FOR FABRICATION	JLP	12/19/16
1	REL	JLP	12/19/16	1	REL	JLP	12/19/16
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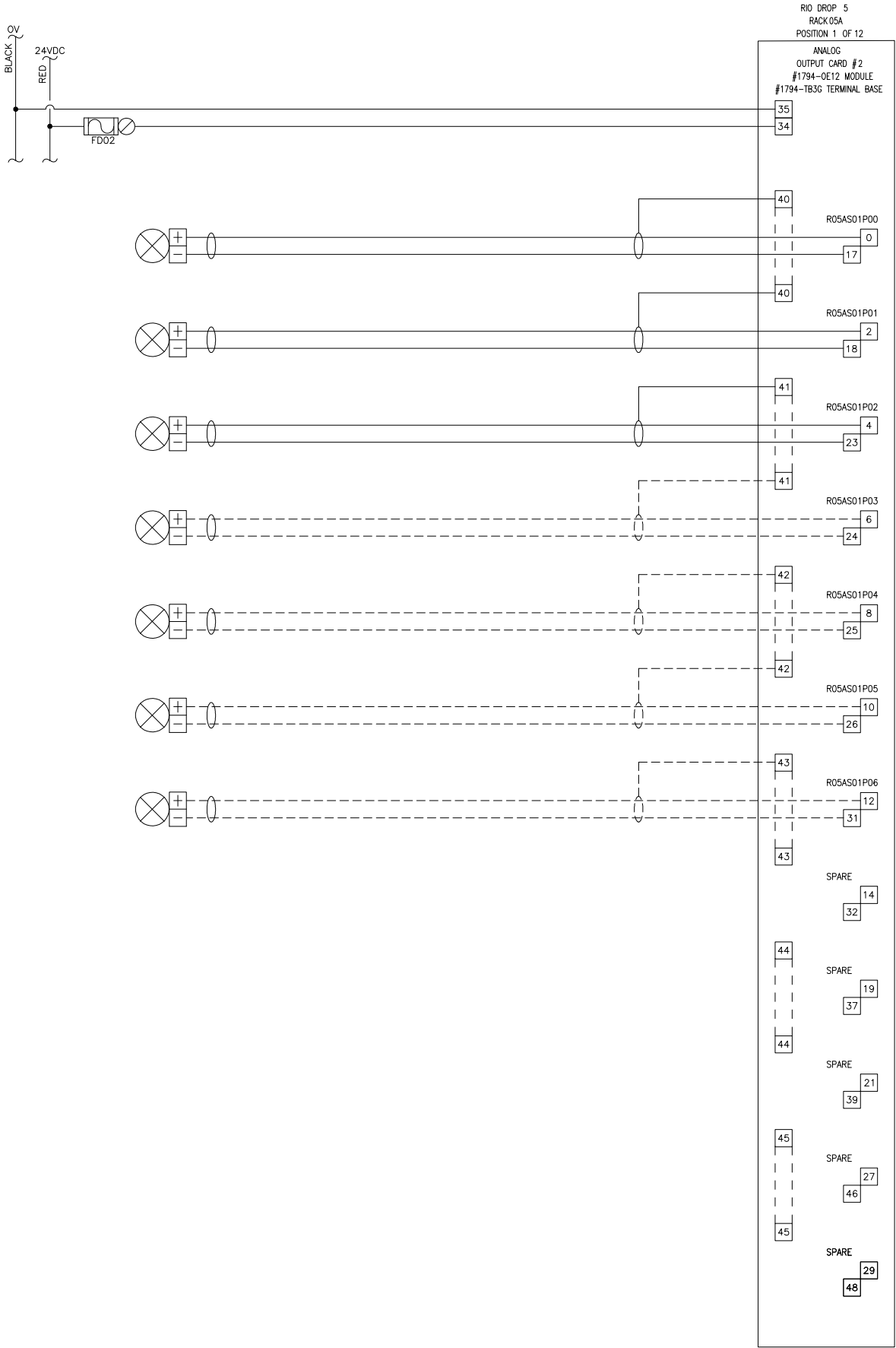
J-447
01/16/17
IFC

GENERAL NOTES

- PANEL / SKID WIRING
- - - FIELD WIRING
⊗ PANEL TERMINAL
○ DEVICE TERMINAL
⊗ FUSED TERMINAL
* SUPPLIED BY OTHERS

- # IO TERMINAL
FIELD TERMINAL

SAME TERMINAL



LY462
V-462 REFRIG ECONOMIZER
LEVEL C.V.

PY462
REFRIG COMP INTERSTAGE
PRESS C.V.

PY463
HOT VAPOR BYPASS C.V.

LY203
E-203 CHILLER PROPANE
LEVEL C.V.

PY361
A-361 REFRIG COND
LOUVERS

PY161
C-161 REFRIG COMPR
CONTROL

PY162
C-162 REFRIG COMPR
CONTROL

J-447
01/16/17
IFC

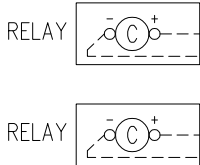
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REV.	DESCRIPTION	DATE	BY	APP'D
0	ISSUE FOR FABRICATION	JLP 12/19/2016		

OK P.E.# 6852
UOP RUSSELL
60 MANAGED CRYO W/ REFRIG
ELECTRICAL SCHEMATICS
RIO DROP R5A - AO CARD #2
7050 S. Yale, Suite 210
Tulsa, Oklahoma 74136
Phone: 918-481-5582
Fax: 918-481-7427

REV.	DESCRIPTION	DATE	BY	APP'D
0	447-R05AS01	NONE	JLP	JLP

——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 FUSED TERMINAL
 * SUPPLIED BY OTHERS



J-447
01/16/17
IFC

REV	DESCRIPTION	BY	DATE	APP'D	DATE
REVISIONS					
0	ISSUE FOR FABRICATION	JLP	12/19/2016	JLP	12/19/2016

REV	0	CHANGING NO	447-R05AS03	SCALE	NONE	DATE	12/19/2016	J/LP	APPROV BY	J/LP	DATE	12/19/2016	CHECK BY	J/LP
UOP RUSSELL 60 MMSCFD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP B5A - DO CARD #4														

GENERAL NOTES

- PANEL / SKID WIRING

- - - -

FIELD WIRING

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PANEL TERMINAL

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DEVICE TERMINAL

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FUSED TERMINAL

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SUPPLIED BY OTHERS
- #

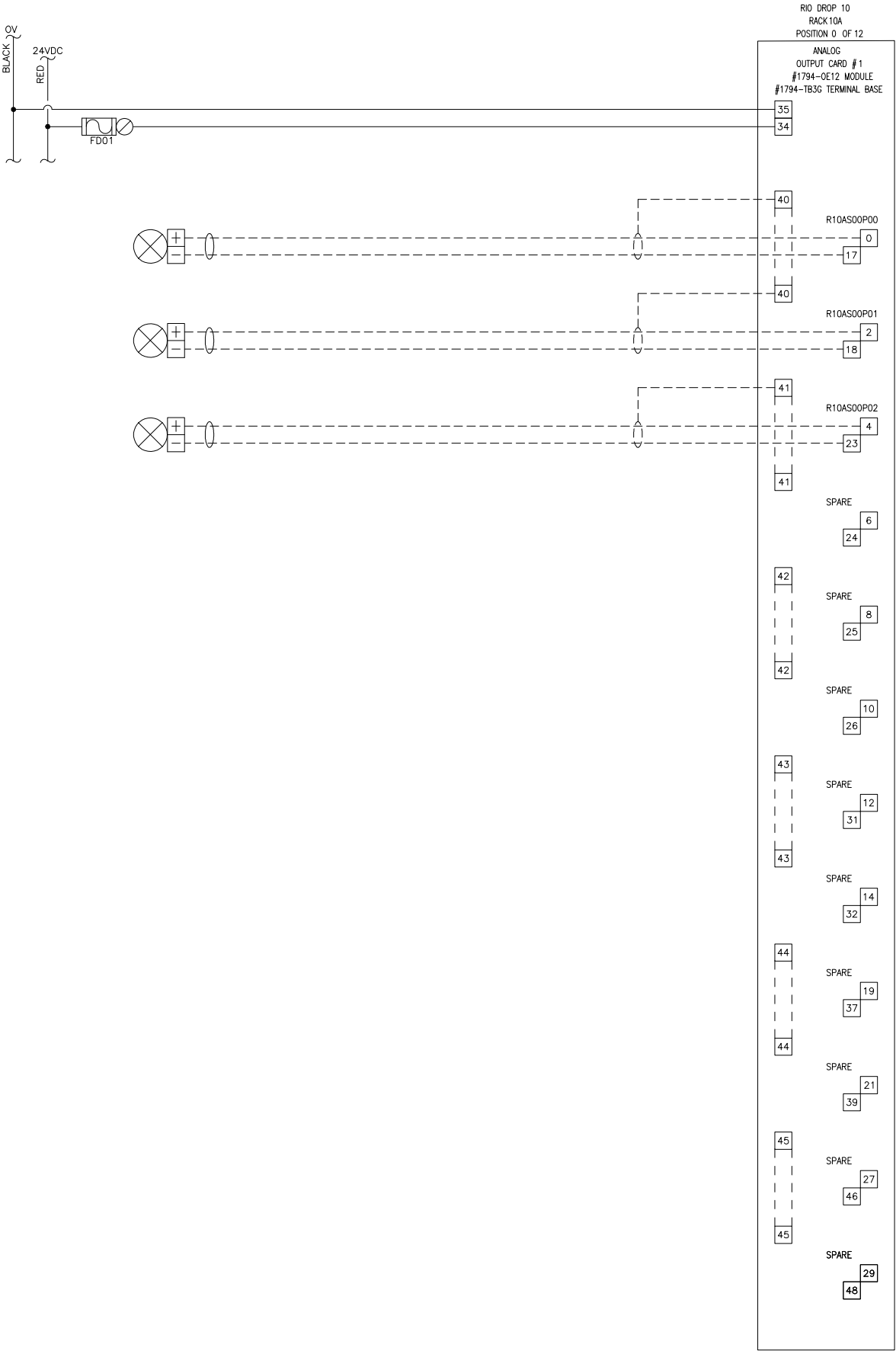
IO TERMINAL

#

FIELD TERMINAL

#

SAME TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL										UOP Russell										OK P.E.# 6852										WV COM# C04812-01										TX P.E.# F-7531										CONFIDENTIALITY STATEMENT										THIS DRAWING CONTAINS CERTAIN PROPRIETARY INFORMATION THAT IS THE PROPERTY OF UOP RUSSELL, LLC. THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF MAINTAINING AND/OR OPERATING THE PLANT AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF UOP RUSSELL, LLC. 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60 MMSGCD CRYO W/ REFRIG ELECTRICAL SCHEMATICS RIO DROP RT0A - AO CARD #1										7090 S. Yale, Suite 210 Tulsa, Oklahoma 74136 Phone: 918-481-5982 Fax: 918-481-7427										UOP Russell										004812-01										F-7531																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

GENERAL NOTES

- PANEL / SKID WIRING

- - -

FIELD WIRING

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PANEL TERMINAL

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DEVICE TERMINAL

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FUSED TERMINAL

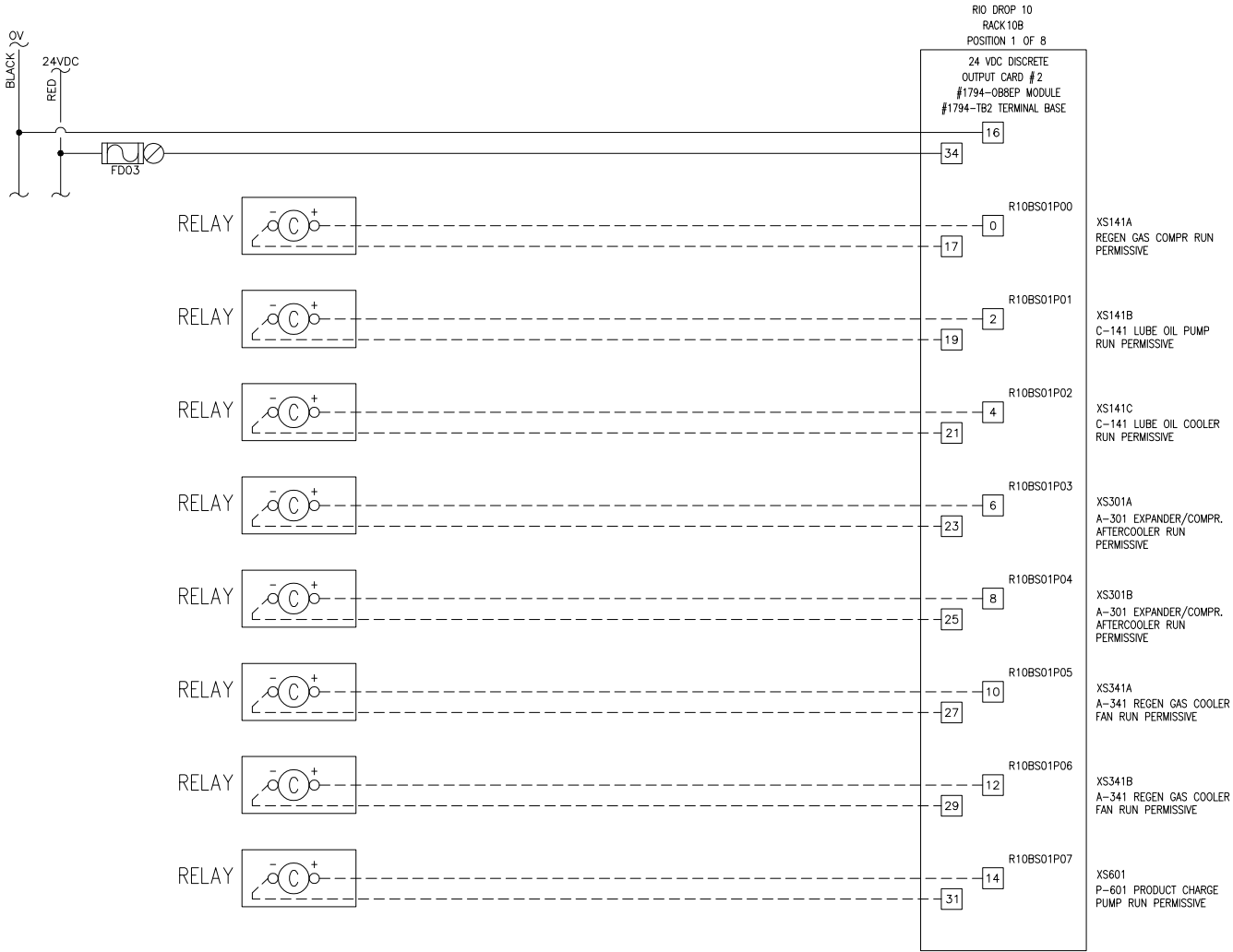
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SUPPLIED BY OTHERS
- #

IO TERMINAL

#

FIELD TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL

60 MMSCED CRYO W/ REFRIG

ELECTRICAL SCHEMATICS

RIO DROP RT08 - DO CARD #2

REV. 0

DRAWING NO. 447-R10BS01

SCALE NONE

DRAWN BY JLP

CHECK BY JLP

DATE 12/19/2016

DATE 12/19/2016

DATE 12/19/2016

OK P.E.# 6852

TX P.E.# F-7531

UOP Russell

7090 S. Yale, Suite 210
Tulsa, Oklahoma 74136

Phone: 918-481-5982
Fax: 918-481-7427

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REVISIONS

REV	DESCRIPTION	BY	DATE	APP'D
0	ISSUE FOR FABRICATION	JLP	12/19/2016	JLP

GENERAL NOTES

- PANEL / SKID WIRING

- - - -

FIELD WIRING

○

PANEL TERMINAL

○

DEVICE TERMINAL

FUSED TERMINAL

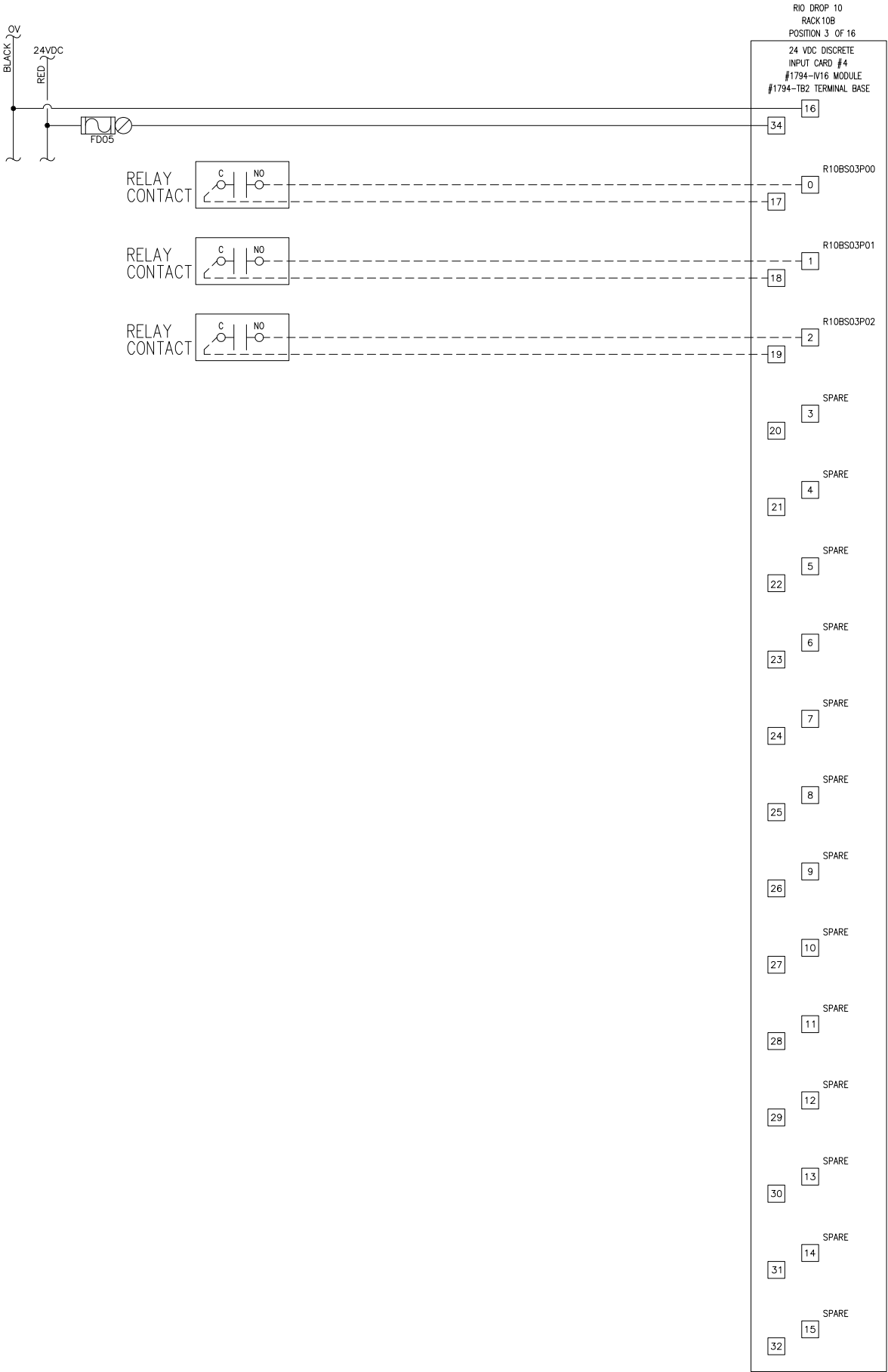
*

SUPPLIED BY OTHERS
- #

IO TERMINAL

#

FIELD TERMINAL



J-447
01/16/17
IFC

UOP RUSSELL
60 MWSCFD CRYO W/ REFRIG
ELECTRICAL SCHEMATICS
RIO DROP RT08 - DI CARD #4

REV. 0

DRAWING NO. 447-R10BS03

SCALE NONE

DRAWN BY JLP

CHECK BY JLP

DATE 12/19/2016

DATE 12/19/2016

DATE 12/19/2016

OK P.E.# 6852

TX P.E.# F-7531

UOP Russell

7090 S. Yale, Suite 210
Tulsa, Oklahoma 74136

Phone: 918-481-5582
Fax: 918-481-7427

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——— PANEL / SKID WIRING
 - - - - FIELD WIRING
 ○ PANEL TERMINAL
 ○ DEVICE TERMINAL
 □ FUSED TERMINAL
 * SUPPLIED BY OTHERS

[illegible]

