

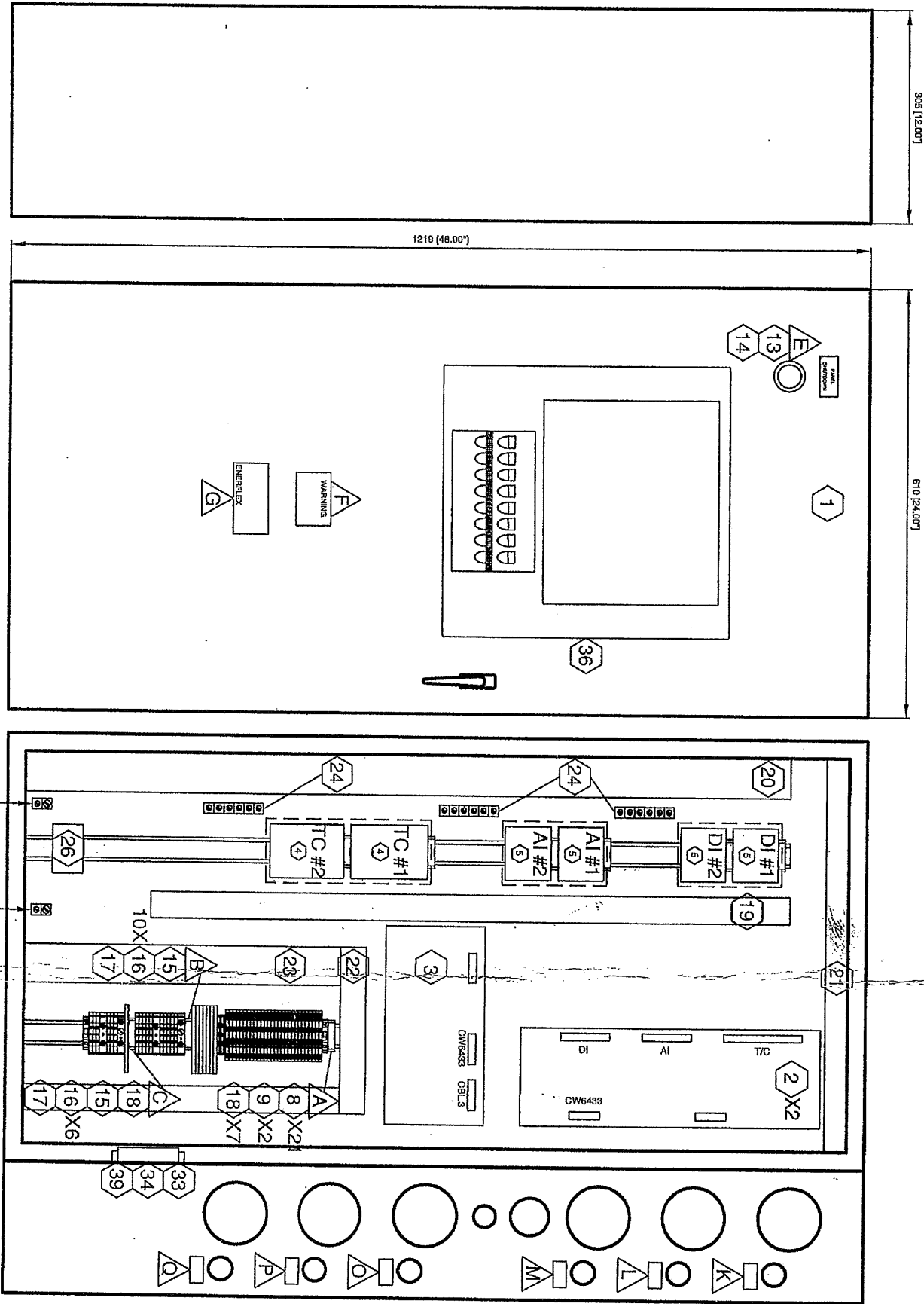
Unit #2 K-500

BILL OF MATERIALS

ITEM	QTY	DESCRIPTION	MODEL #
1	1	ACE CUSTOM ENCLOSURE	CUSTOM
2	2	RC 2000 INPUT MODULE	CW4769-1
3	1	RC 2000 OUTPUT MODULE	CW5218-2
4	2	WIELAND 40 PIN TERMINATION BLOCK	87.210.2206.3 (ENERFLEX SUPPLY)
5	4	WIELAND 28 PIN TERMINATION BLOCK	87.210.2005.3 (ENERFLEX SUPPLY)
6	0	WIELAND ANALOG NON-INCENDIVE BARR.	WW.900.102
7	0	WIELAND DI NON-INCENDIVE BARRIER	10-12-01
8	21	WIDK 2.5 STACKED FEED THROUGH TERM.	102150
9	2	WEID. WPE 4 GROUND TERMINAL	101010
10			
11			
12			
13	1	AB RED PUSH BUTTON	800T-FX6
14	2	NC CONTACT BLOCK	800T-XD2P
15	2	WEID SAKS 1/35 FUSED TERMINAL	50162
16	16	WEID WDU 2.5 FEED THROUGH TERMINAL	102000
17	2	WEID WDU 10 FEED THROUGH TERMINAL	102030
18	8	WEIL SLIM LINE RELAY	80.010.4000.0
19	LOT	1X2 GRAY PANDUIT	F1X2LG8
20	LOT	2X4 GRAY PANDUIT	F2X4LG8
21	LOT	1X2 WHITE PANDUIT	F1X2WH6
22	LOT	1X3 WHITE PANDUIT	F1X3WH6
23	LOT	2X3 WHITE PANDUIT	F2X3WH6
24	LOT	GROUND BAR	
25			
26	1	WEID. SPARE FUSE HOLDER	7914760001
27			
28			
29	1	ILSCO ISOLATED GROUND LUG	
30	1	ILSCO PANEL GROUND LUG	
31			
32			
33	LOT	TS-35 MOUNTING RAIL	38340
34	LOT	EW 35 END STOPS	38365
35	LOT	SCHTS TERMINAL STRIP MARKERS	163193
36	1	TOUCHSCREEN 10" ASSEMBLY	RC2000-10T
37			
38			
39	1	RMX	RMX-EL

LAMACOID SCHEDULE

ITEM	QTY	TEXT	SIZE
A	1	INCENDIVE I/O	SCHTS
B	1	24 VDC DISTRIBUTION	SCHTS
C	1	IGNITION DISTRIBUTION	SCHTS
D			
E	1	PANEL SHUTDOWN	1" X 3"
F	1	WARNING EXPLOSION HAZARD DO NOT REPLACE FUSES OR WIRES UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS	2" X 3"
G	1	ENERFLEX CSA LAMACOID	2" X 4"
K	1	GOVERNOR	3/4" X 1.5"
L	1	BYPASS	3/4" X 1.5"
M	1	SUCTION	3/4" X 1.5"
N			
O	1	STAGE 1	3/4" X 1.5"
P	1	STAGE 2	3/4" X 1.5"
Q	1	STAGE 3	3/4" X 1.5"
M	-		-



- LEGEND

 - 1. PANEL WIRING
 - 2. SKID WIRING
 - 3. FIELD WIRING
 - 4. UNFUSED TERMINAL
 - 5. FUSED TERMINAL
 - 6. FEED THROUGH TERMINAL
 - 7. DISCONNECT TERMINAL
- WIRE COLOR LEGEND

 - 1. -24VDC: RED
 - 2. -24VDC: YELLOW
 - 3. SWITCHED: ORANGE
 - 4. ANALOG INPUT/OUTPUT -: BLACK
 - 5. ANALOG INPUT/OUTPUT +: WHITE
 - 6. ANALOG LOOP: PURPLE

Rev.	Soft Rev.	Revision Description	By	Date	Checked	App'd	Ref. Field #
0		ISSUED FOR APPROVAL	BR	17.02.2005			
1		ISSUED FOR CONSTRUCTION	BR	08.03.2005			
2		PANEL SHOP AS BUILT	BR	23.03.2005			
3		SHOP AS BUILT	BR	27.04.2005			

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Project Title

MGV ENERGY INC.
RC 10290

Drawing Title

PANEL LAYOUT DRAWING

Sheet

Drawing Number

5190009-01

Customer

Drawing Number

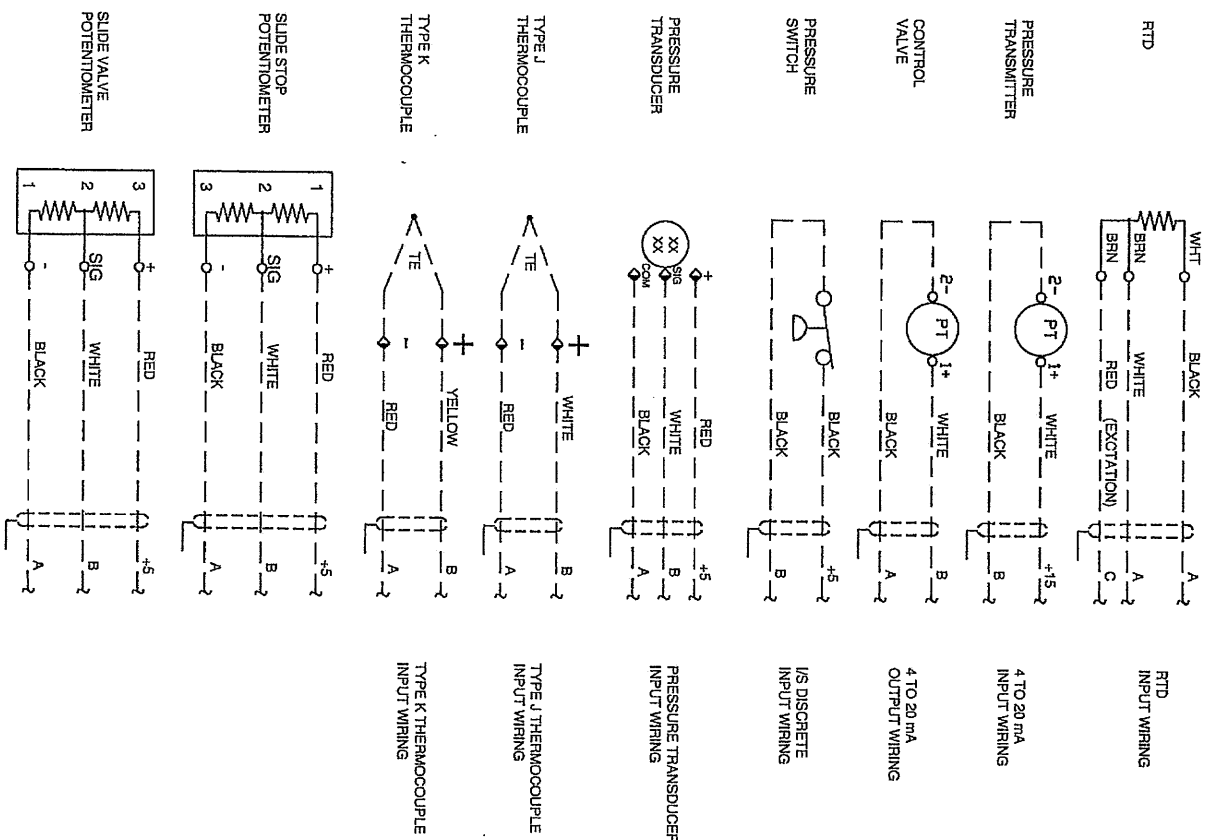
040919

1 of 1

NTS

Syntech

TYPICAL FIELD I/O WIRING



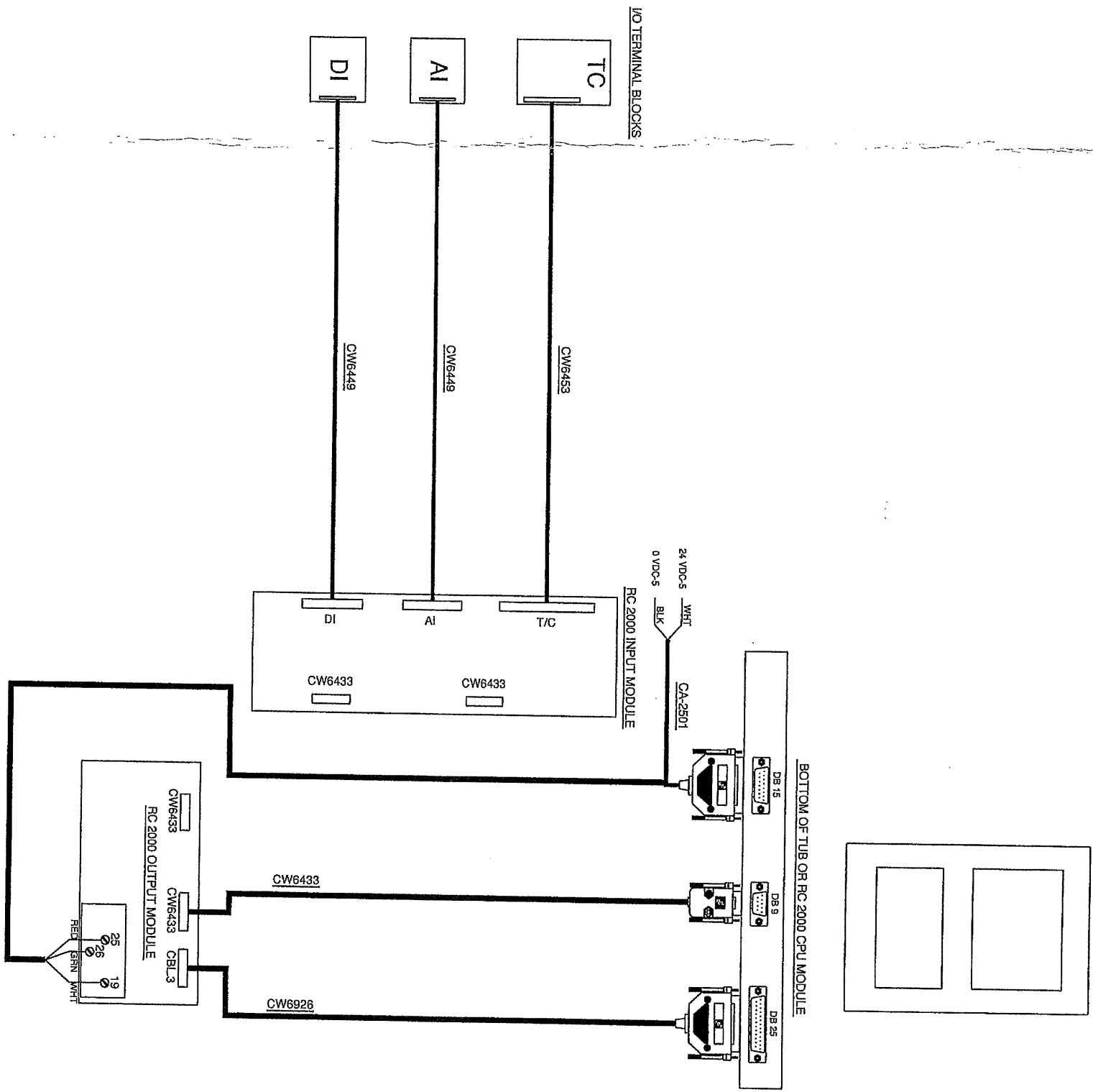
NOTES:

1. ALL FIRES ARE GDA TYPE
2. SEPARATE 24 VDC POWER PROVIDED FOR PANEL

LEGEND:

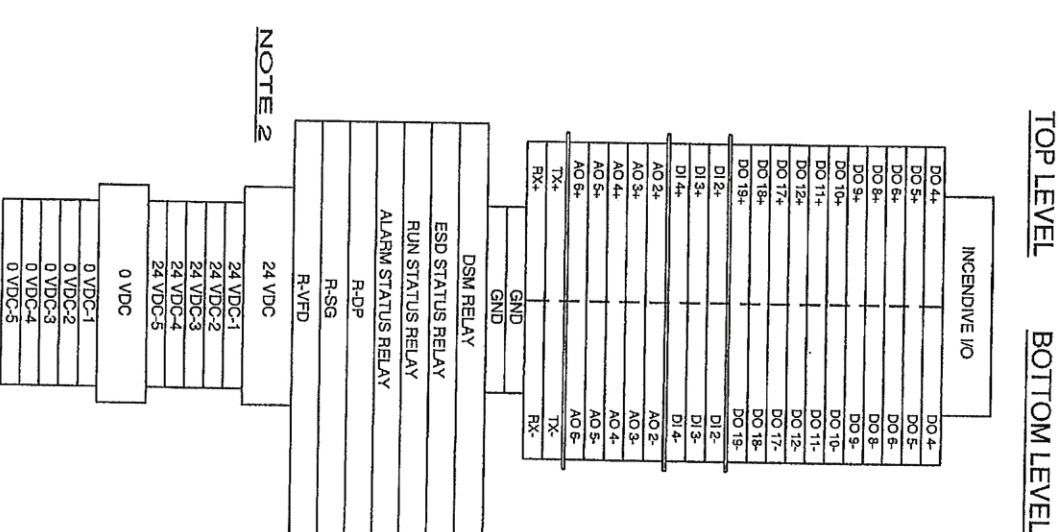
1. PANEL WIRING	WIRE COLOR LEGEND
2. SKID WIRING	1. +24VDC: RED
3. FIELD WIRING	2. -24VDC: YELLOW
4. UNFUSED TERMINAL	3. SWITCHED: ORANGE
5. FUSED TERMINAL	4. ANALOG INPUT/OUTPUT: BLACK
6. FEED THROUGH TERMINAL	5. ANALOG INPUT/OUTPUT: WHITE
7. DISCONNECT TERMINAL	6. ANALOG LOOP: PURPLE

Project Title	MGV ENERGY INC. RC 10290
Drawing Title	I/O BOARD CABLE CONNECTION LAYOUT DRAWING
Customer	Syntech
Drawing Number	5190009-02
Drawing Number	040919
NTS	1 of 1



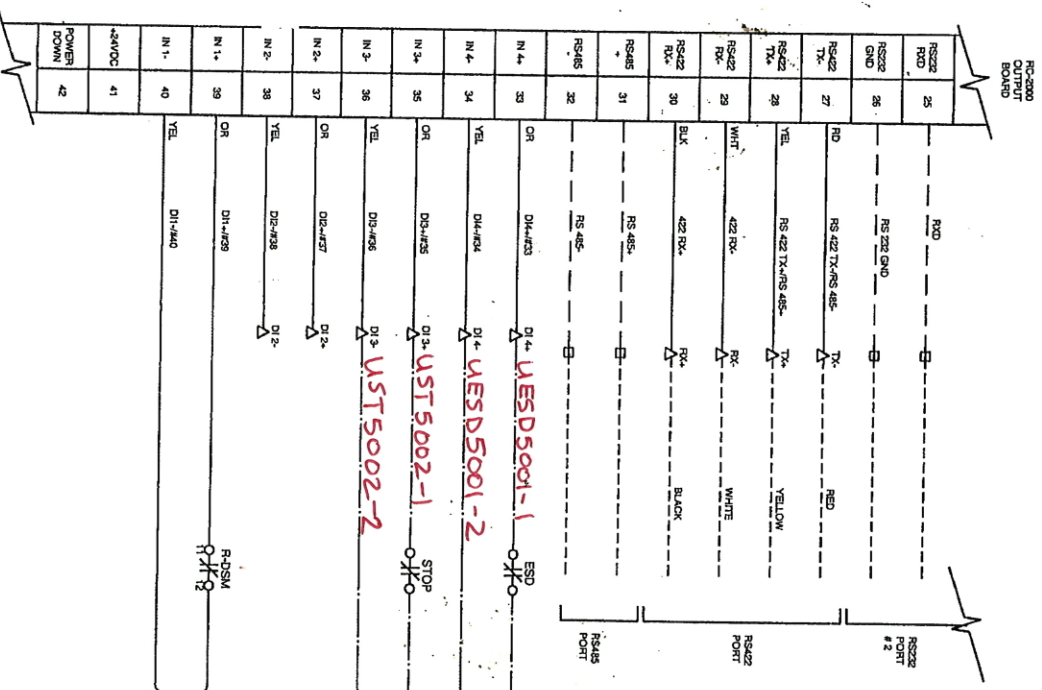
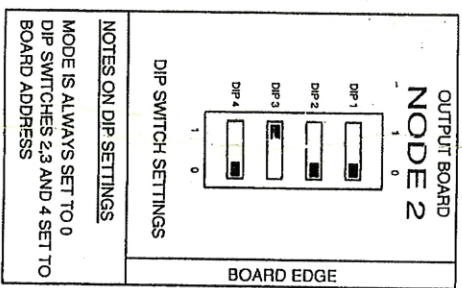
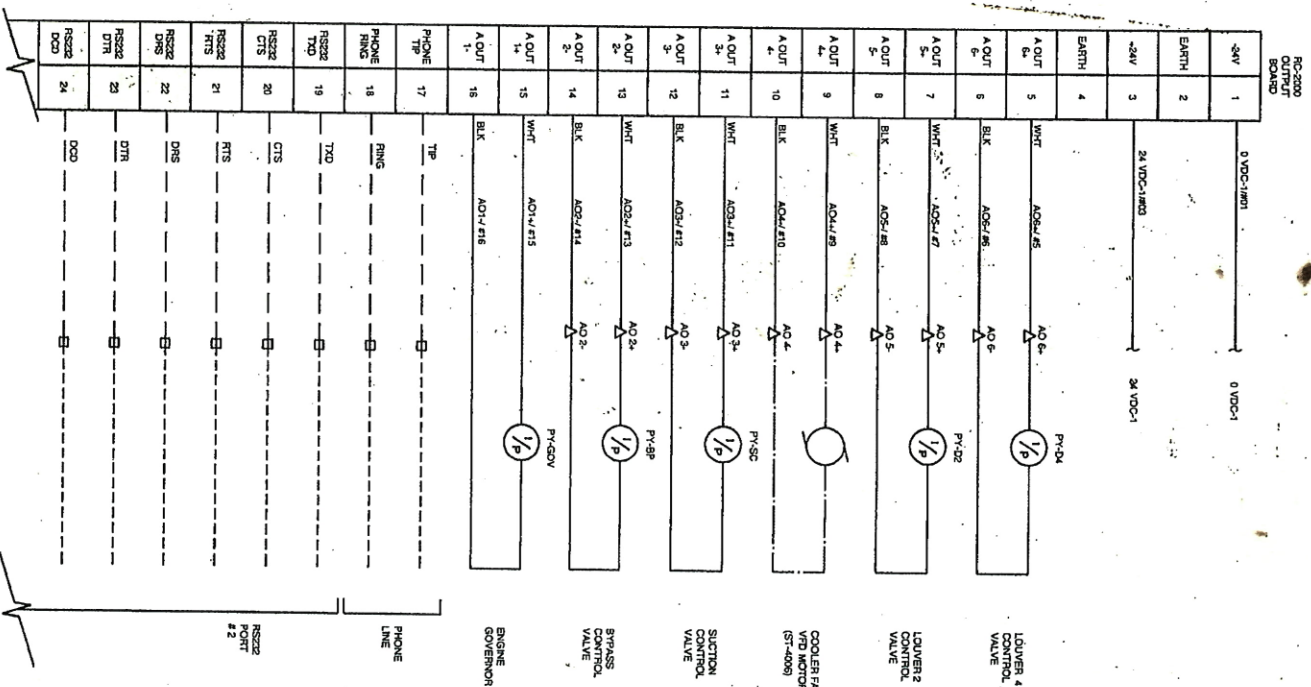
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24VDC TERMINAL LAYOUT



NOTES:										Project Title									
1. ALL FUSES ARE GMA TYPE										MGV ENERGY INC. RC 10290 24 VDC POWER DISTRIBUTION LAYOUT DRAWING									
2. SEPARATE 24 VDC POWER PROVIDED FOR PANEL																			
LEGEND																			
WIRE COLOR LEGEND																			
PANEL WIRING																			
SKID WIRING																			
FIELD WIRING																			
1. 24VDC: RED										27.04.2005									
2. 24VDC: YELLOW										BR 22.03.2005									
3. SWITCHED: ORANGE										BR 08.02.2005									
4. ANALOG INPUT/OUTPUT - : BLACK																			
5. ANALOG INPUT/OUTPUT + : WHITE																			
6. ANALOG LOOP: PURPLE																			
7. DISCONNECT TERMINAL																			
THIS DRAWING IS DESIGNED ENTIRELY FOR USE BY SYNTRECH AND IS SOLE PROPERTY OF SYNTRECH WHICH ASSUMES NO LIABILITY FOR REPRODUCTION OF THE DRAWING CONTENTS.										Drawing Title									
Rev.										By		Date		Checked		Apnd		REF. PAID #	
1. Δ										BR		17.02.2005							
2. Δ										BR									
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Project Title		MGV ENERGY INC. RC 10290							
Drawing Title		Syntech							
24 VDC POWER DISTRIBUTION LAYOUT DRAWING		<table border="1"> <tr> <td>Syntech Drawing Number</td> <td>5190009-05</td> </tr> <tr> <td>Customer Drawing Number</td> <td>040919</td> </tr> </table>	Syntech Drawing Number	5190009-05	Customer Drawing Number	040919	<table border="1"> <tr> <td>1 of 1</td> </tr> <tr> <td>NTS</td> </tr> </table>	1 of 1	NTS
Syntech Drawing Number	5190009-05								
Customer Drawing Number	040919								
1 of 1									
NTS									



COMP REMOTE
SHUT DOWN
COOL STOP

See dwg
D-9549-U-016 B
D-9549-W-010C

NOTES:
1. WHEN REMOTE STOP BARRIER IS USED,
REMOVE WIRES TO RDSM RELAY CONTACTS
LEGEND
1. PANEL WIRING
2. SKD WIRING
3. FIELD WIRING
4. UNUSED TERMINAL
5. FUSED TERMINAL
6. FEED THROUGH TERMINAL
7. DISCONNECT TERMINAL

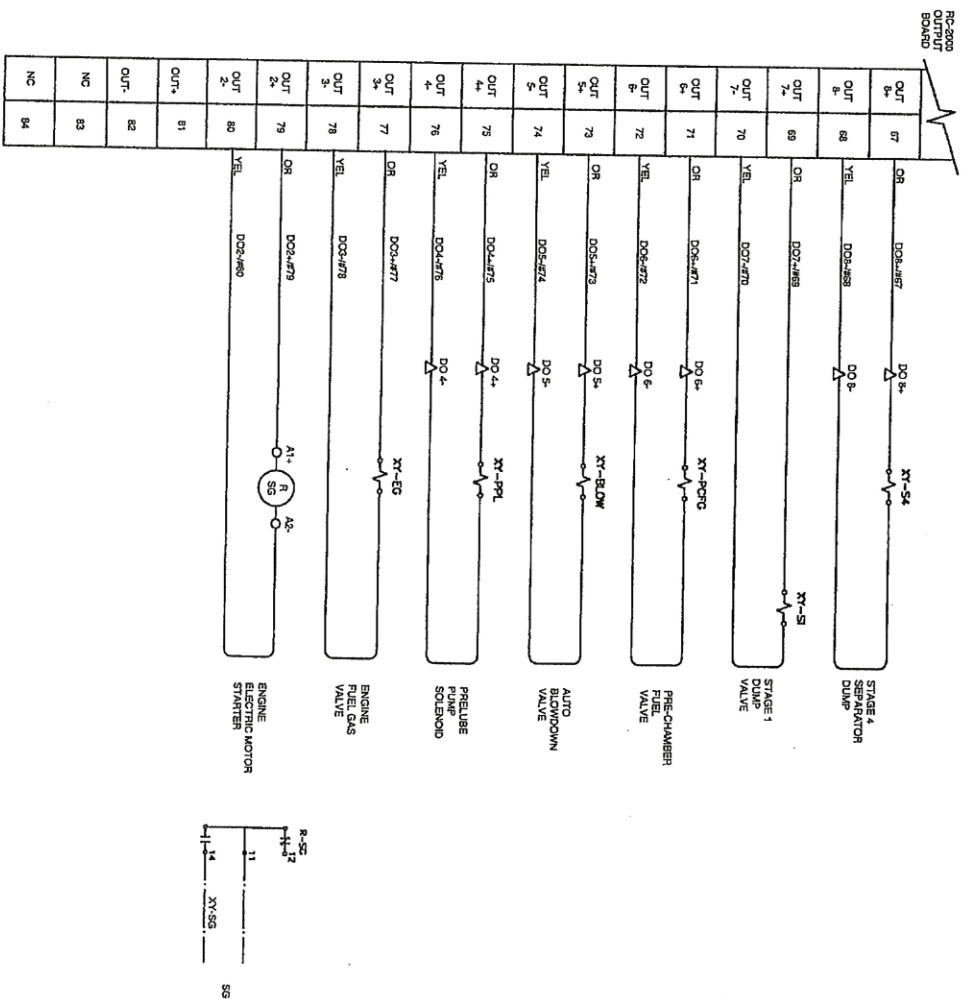
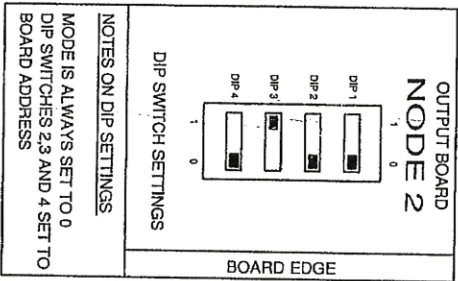
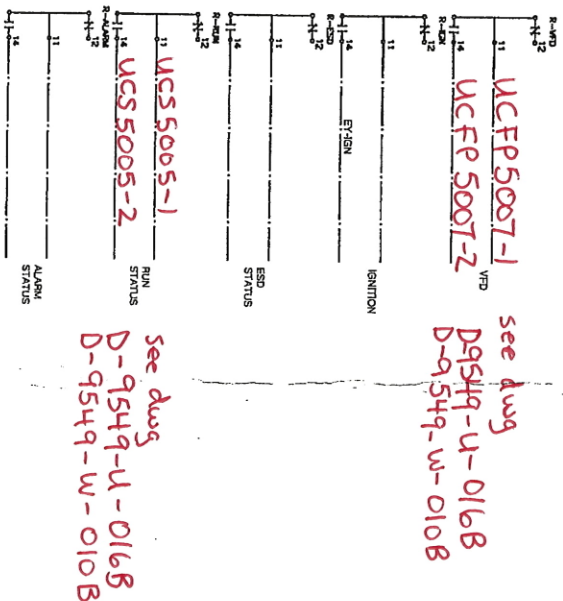
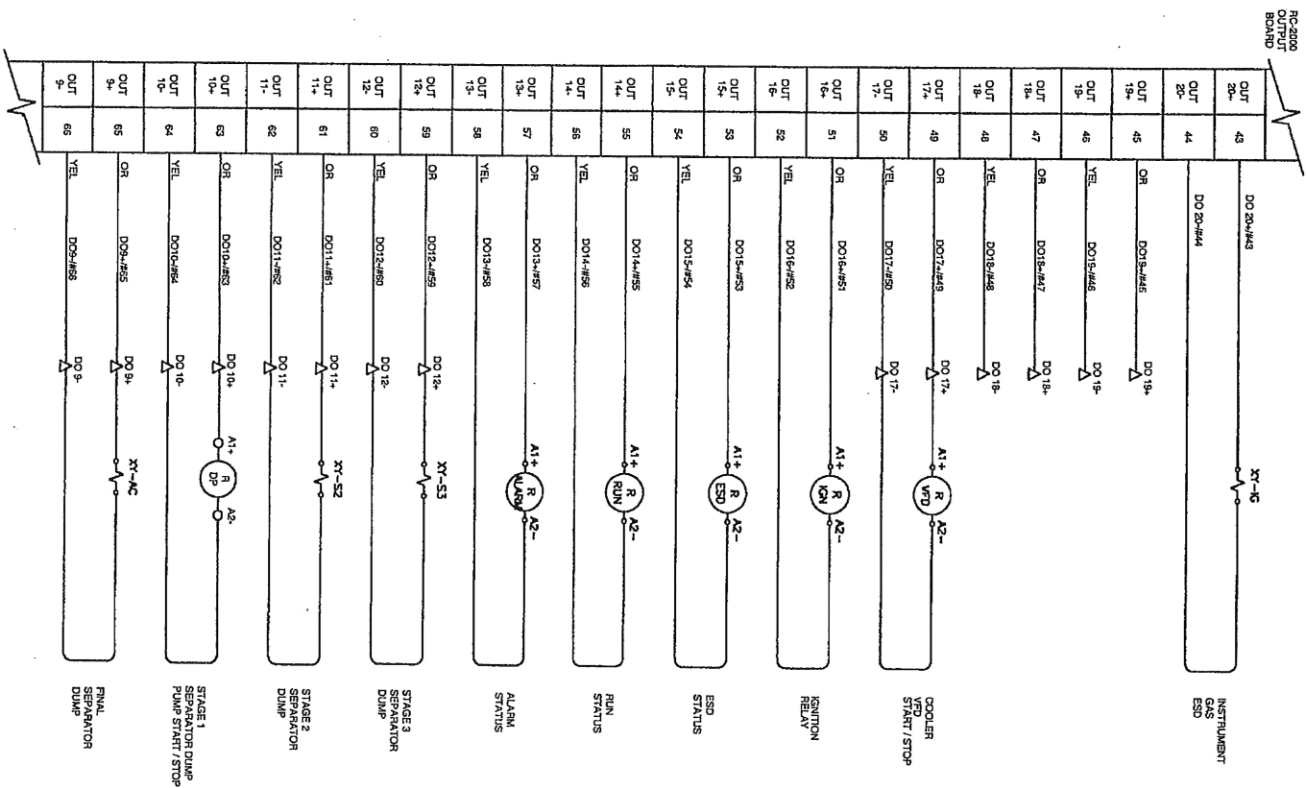
2. USE ONLY INTERNALLY
WIRE COLOR LEGEND
1. RED
2. YELLOW
3. GREEN
4. BLUE
5. WHITE
6. PURPLE

Rev.	Soil Rev.	Revision Description	By	Date	Checked	App'd	REF. PAID #
1		SHOP AS BUILT	BR	27.04.2005			
2		PANEL SHOP AS BUILT	BR	23.03.2005			
3		ISSUED FOR CONSTRUCTION	BR	08.03.2005			
4		ISSUED FOR APPROVAL	BR	17.02.2005			

Project Title	MGV ENERGY INC. RC 10290	Drawing Title	OUTPUT BOARD LAYOUT DRAWING	5190009-11	1 of 1
Customer		Drawing Number	040919	NTS	

Syntech

THIS DRAWING IS DESIGNED ENTIRELY FOR USE BY SYNTech AND IS SOLE PROPERTY OF SYNTech WHICH ASSUMES NO LIABILITY FOR REPRODUCTION OF THE DRAWING CONTENTS.



NOTES:
1. WHEN BLOW CASE OPTION 626 IS USED, RETAG SOLENOID LY-310 TO LY-313A

Project Title: MGV ENERGY INC. RC 10290

Drawing Title: OUTPUT BOARD cont' LAYOUT DRAWING

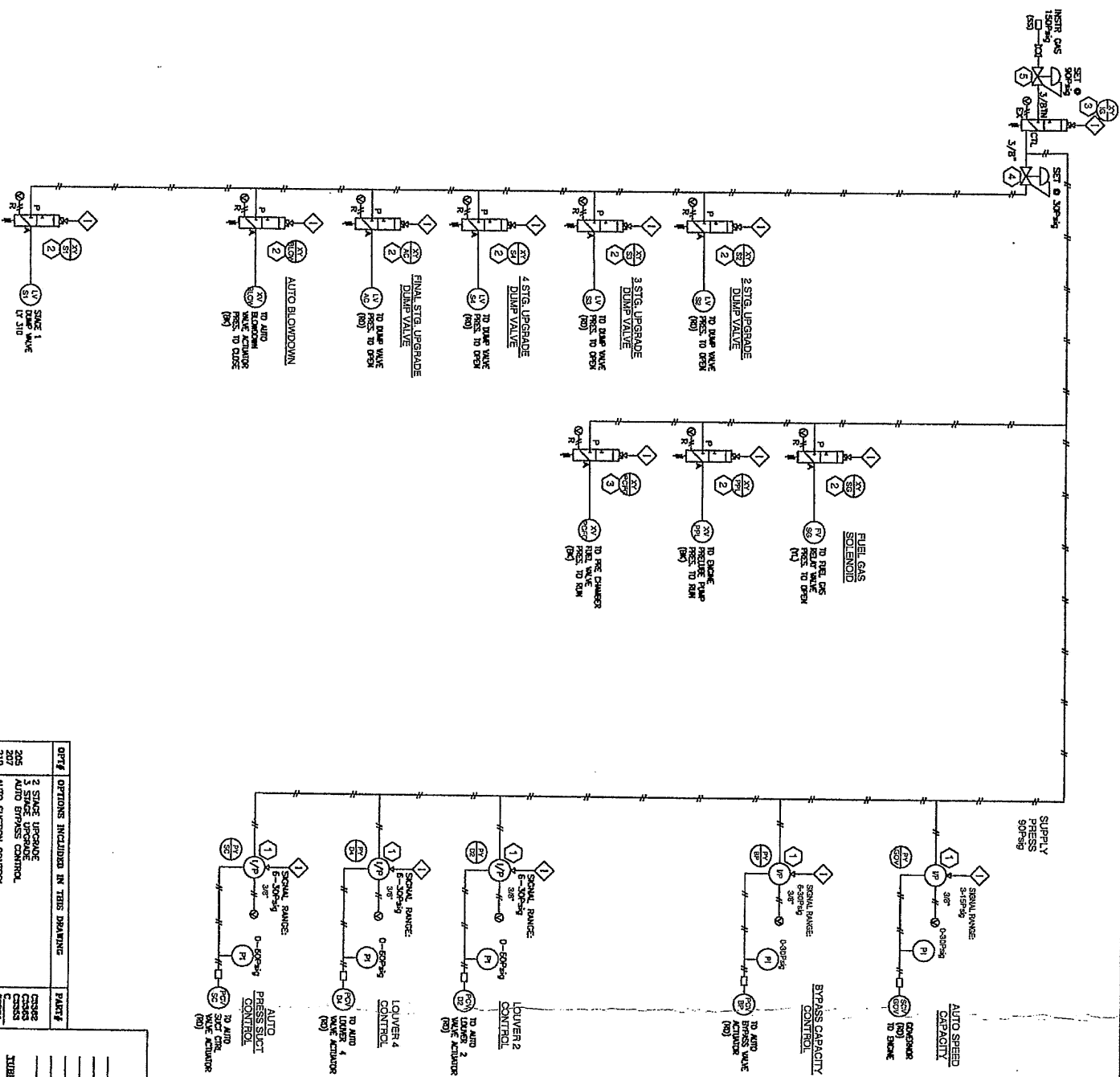
Syntech
Customer Drawing Number: 5190009-12
Drawing Number: 040919

1 of 1
NTS

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
1	5	FAIRCHILD I/P
2	8	BURKERT SOLENOID
3	2	SNAPTITE SOLENOID
4	1	FISHER TYPE 67 REGULATOR 30 PSI
5	1	FISHER TYPE 84 REGULATOR 90 PSI
6	-	-
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9	-	-
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11	-	-
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LAMACOID SCHEDULE		
ITEM	QTY	TEXT
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NOTES:
1. ALL PROCESS CONNECTIONS ARE TO BE MADE USING ASTM A234A289 316 SS FITTINGS AND FERRULES.
2. ENGINE OIL PRESSURE SWITCH CAN BE REPLACED BY A TRANSMITTER AS OPTION 777
3. ALL NYLON TUBING IS 1/4" UNLESS INDICATED OTHERWISE



QTY	DESCRIPTION	DATE
205	2 STG. UPGRADE	27.04.2005
210	AUTO BLOWDOWN	28.03.2005
220	AUTO SECTION CONTROL	08.03.2005
440	ENGINE PRELUDE	
445	ENGINE PRELUDE	
446	ENGINE PRELUDE	
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F	-	-
G	-	-
H	-	-
I	-	-
J	-	-
K	-	-
L	-	-
M	-	-

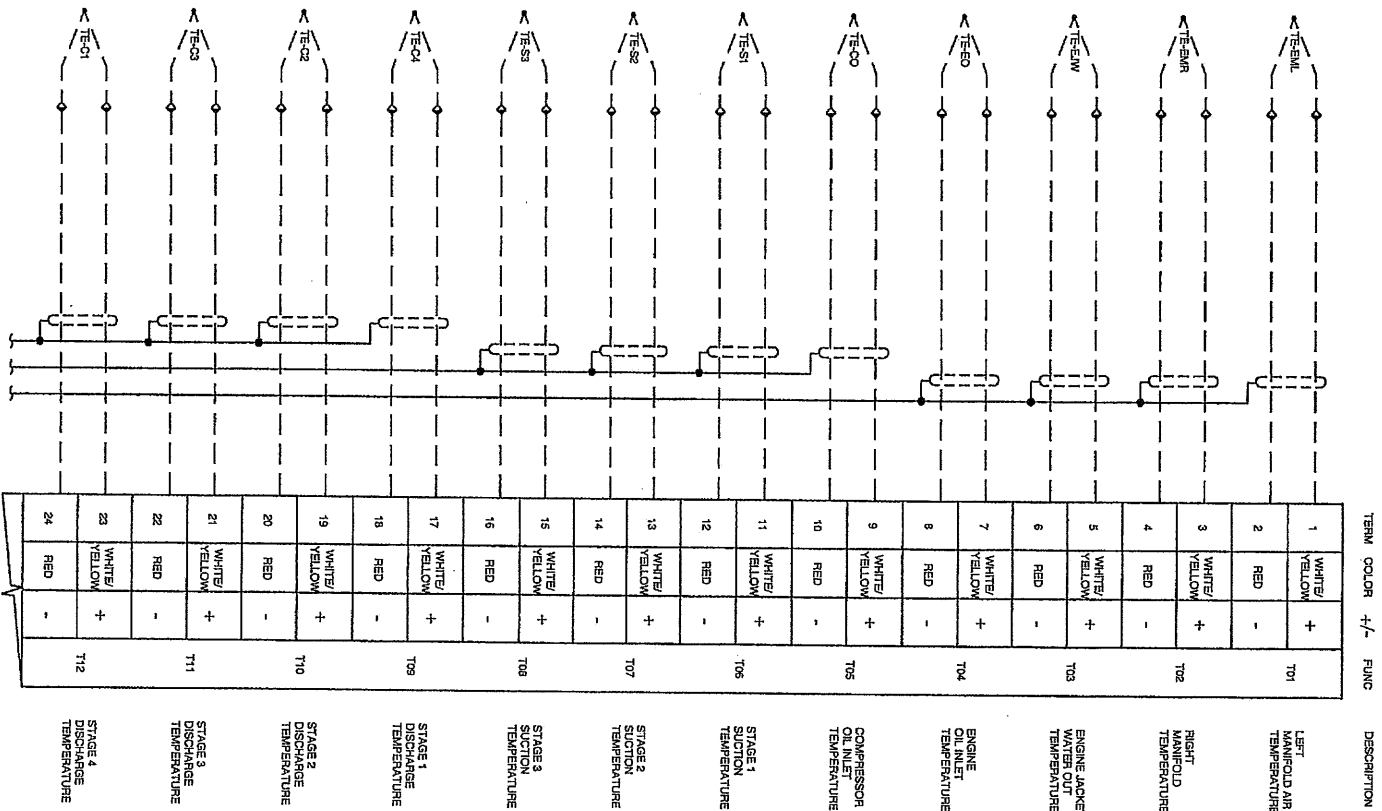
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A	-	TEXT/BACKGROUND
B	-	-
C	-	-
D	-	-
E	-	-
F	-	-
G	-	-
H	-	-
I	-	-
J	-	-
K	-	-
L	-	-
M	-	-

ITEM	QTY	TEXT
A	-	TEXT/BACKGROUND
B	-	-
C	-	-
D	-	-
E	-	-
F	-	-
G	-	-
H	-	-
I	-	-
J	-	-
K	-	-
L	-	-
M	-	-

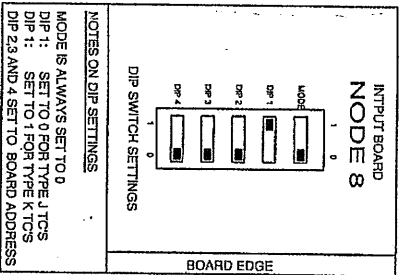
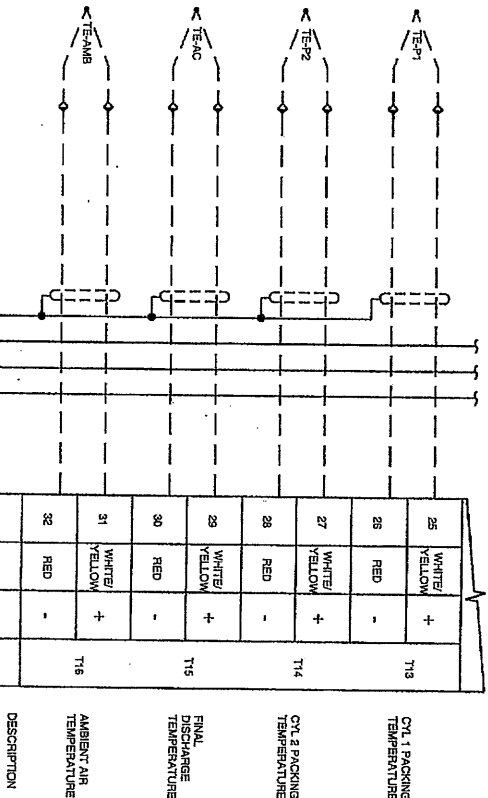
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A	-	TEXT/BACKGROUND
B	-	-
C	-	-
D	-	-
E	-	-
F	-	-
G	-	-
H	-	-
I	-	-
J	-	-
K	-	-
L	-	-
M	-	-

_____	PROCESS PIPING
_____	UTILITY PIPING
_____	TUBING - STAINLESS STEEL
_____	TUBING - INCH
_____	HOSE (PREF-LINE OIL DRAIN)
_____	ELECTRICAL SIGNAL
TYPING COLOR CODE	
BR (BLACK)	VENTS
OR (RED)	SPRIG LOOP SIGNAL
OR (RED) (RED	

NON-INCENDIVE
THERMOCOUPLE
BOARD #1



- LEGEND**
- 1. PANEL WIRING
 - 2. SKID WIRING
 - 3. RED WIRING
 - 4. UNFUSED TERMINAL
 - 5. FUSED TERMINAL
 - 6. FEED THROUGH TERMINAL
 - 7. DISCONNECT TERMINAL
- WIRE COLOR LEGEND**
- 1. -24VDC: RED
 - 2. -24VDC: YELLOW
 - 3. SWITCHED: ORANGE
 - 4. ANALOG INPUT/OUTPUT - : BLACK
 - 5. ANALOG INPUT/OUTPUT + : WHITE
 - 6. ANALOG LOOP - : PURPLE
 - 7. DISCONNECT TERMINAL



THERMOCOUPLE FIELD WIRING

K-TYPE: += YELLOW

- = RED

J-TYPE: += WHITE

- = RED

MGV ENERGY INC.
RC 10290

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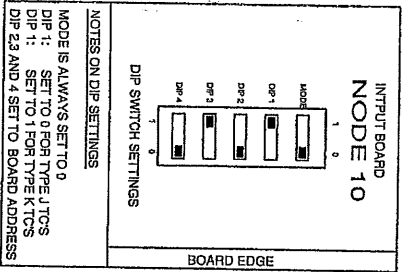
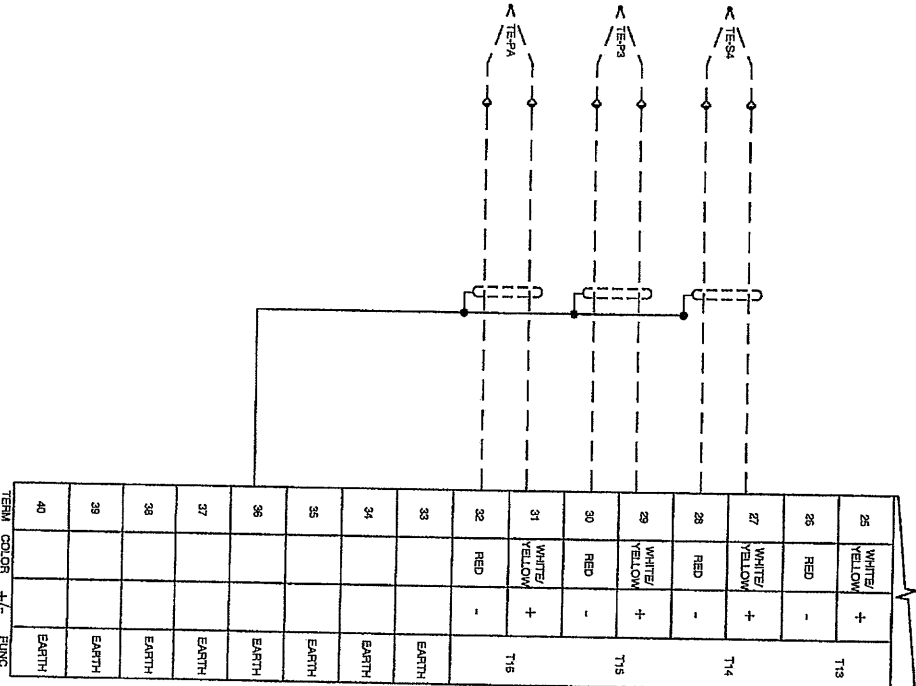
Project Title
Drawing Title
THERMOCOUPLE LAYOUT DRAWING

Syntech
Drawing Number
5190009-15
Customer
Drawing Number
040919
1 of 1
NTS

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THERMOCOUPLE
 BOARD #2

TERM	COLOR	+/-	FUNG	DESCRIPTION
1	WHITE/ YELLOW	+		CYLINDER 1L EXHAUST TEMPERATURE
2	RED	-		
3	WHITE/ YELLOW	+		CYLINDER 2L EXHAUST TEMPERATURE
4	RED	-		
5	WHITE/ YELLOW	+		CYLINDER 3L EXHAUST TEMPERATURE
6	RED	-		
7	WHITE/ YELLOW	+		CYLINDER 4L EXHAUST TEMPERATURE
8	RED	-		
9	WHITE/ YELLOW	+		CYLINDER 5L EXHAUST TEMPERATURE
10	RED	-		
11	WHITE/ YELLOW	+		CYLINDER 6L EXHAUST TEMPERATURE
12	RED	-		
13	WHITE/ YELLOW	+		CYLINDER 1R EXHAUST TEMPERATURE
14	RED	-		
15	WHITE/ YELLOW	+		CYLINDER 2R EXHAUST TEMPERATURE
16	RED	-		
17	WHITE/ YELLOW	+		CYLINDER 3R EXHAUST TEMPERATURE
18	RED	-		
19	WHITE/ YELLOW	+		CYLINDER 4R EXHAUST TEMPERATURE
20	RED	-		
21	WHITE/ YELLOW	+		CYLINDER 5R EXHAUST TEMPERATURE
22	RED	-		
23	WHITE/ YELLOW	+		CYLINDER 6R EXHAUST TEMPERATURE
24	RED	-		



THERMOCOUPLE FIELD WIRING
 K-TYPE: + = YELLOW
 - = RED
 J-TYPE: + = WHITE
 - = RED

- LEGEND
 1. PANEL WIRING
 2. SKID WIRING
 3. FIELD WIRING
 4. UNFUSED TERMINAL
 5. FUSED TERMINAL
 6. FEED THROUGH TERMINAL
 7. DISCONNECT TERMINAL
- WIRE COLOR LEGEND
 1. 42VDC: RED
 2. 24VDC: YELLOW
 3. 12VDC: GREEN
 4. ANALOG INPUT/OUTPUT: - : BLACK
 5. ANALOG INPUT/OUTPUT: + : WHITE
 6. ANALOG LOOP: PURPLE

Rev.	Sub Rev.	Revision Description	By	Date	Checked	App'd	REF. PAID #
0		ISSUED FOR APPROVAL	BR	17/02/2005			
1		ISSUED FOR CONSTRUCTION	BR	06/03/2005			
2		PANEL SHOP AS BUILT	BR	23/03/2005			
3		SHOP AS BUILT	BR	27/04/2005			

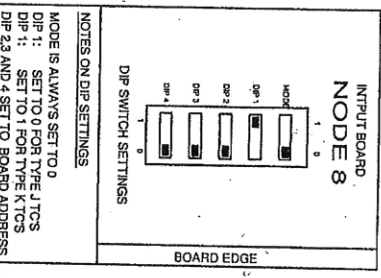
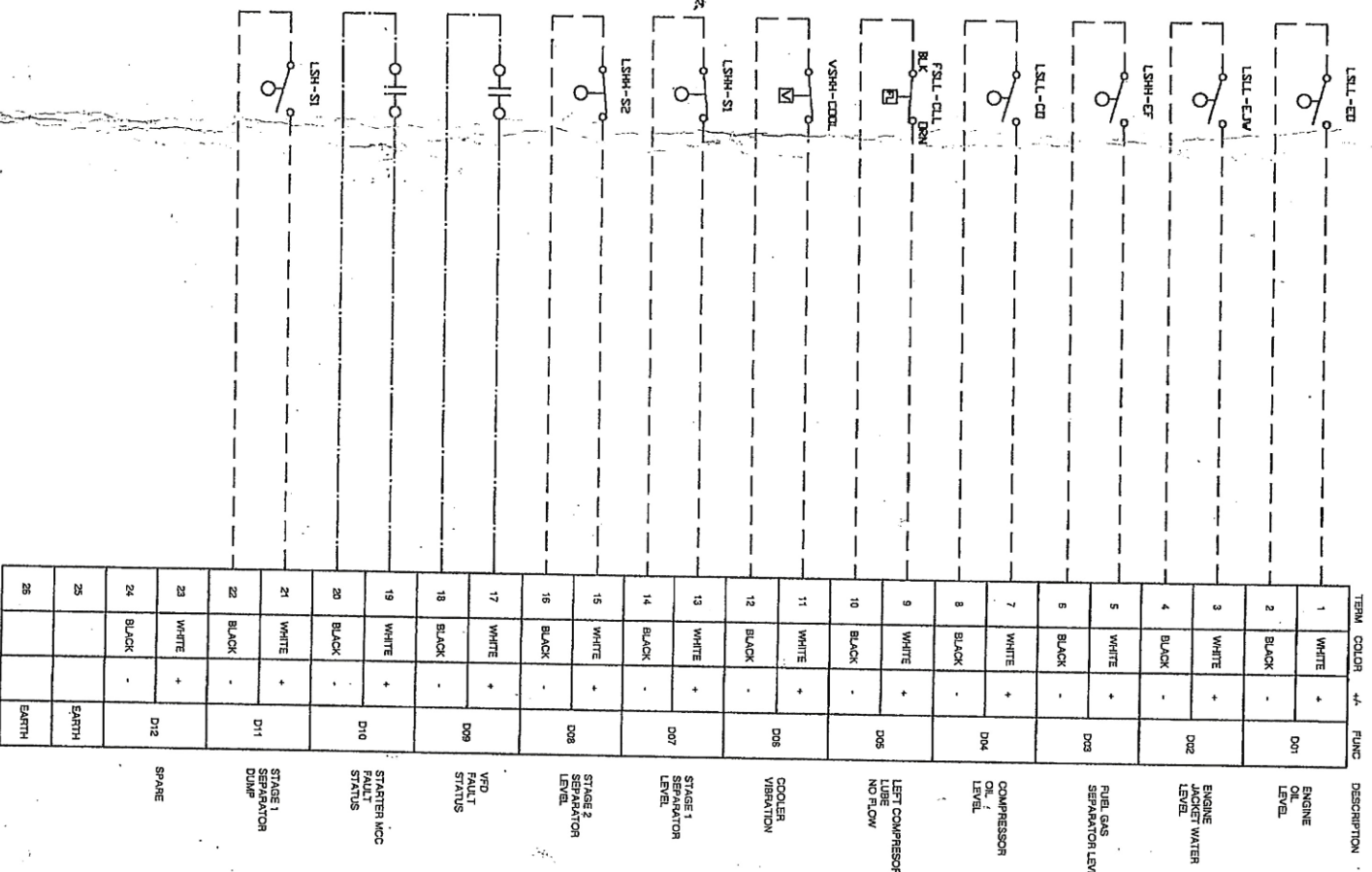
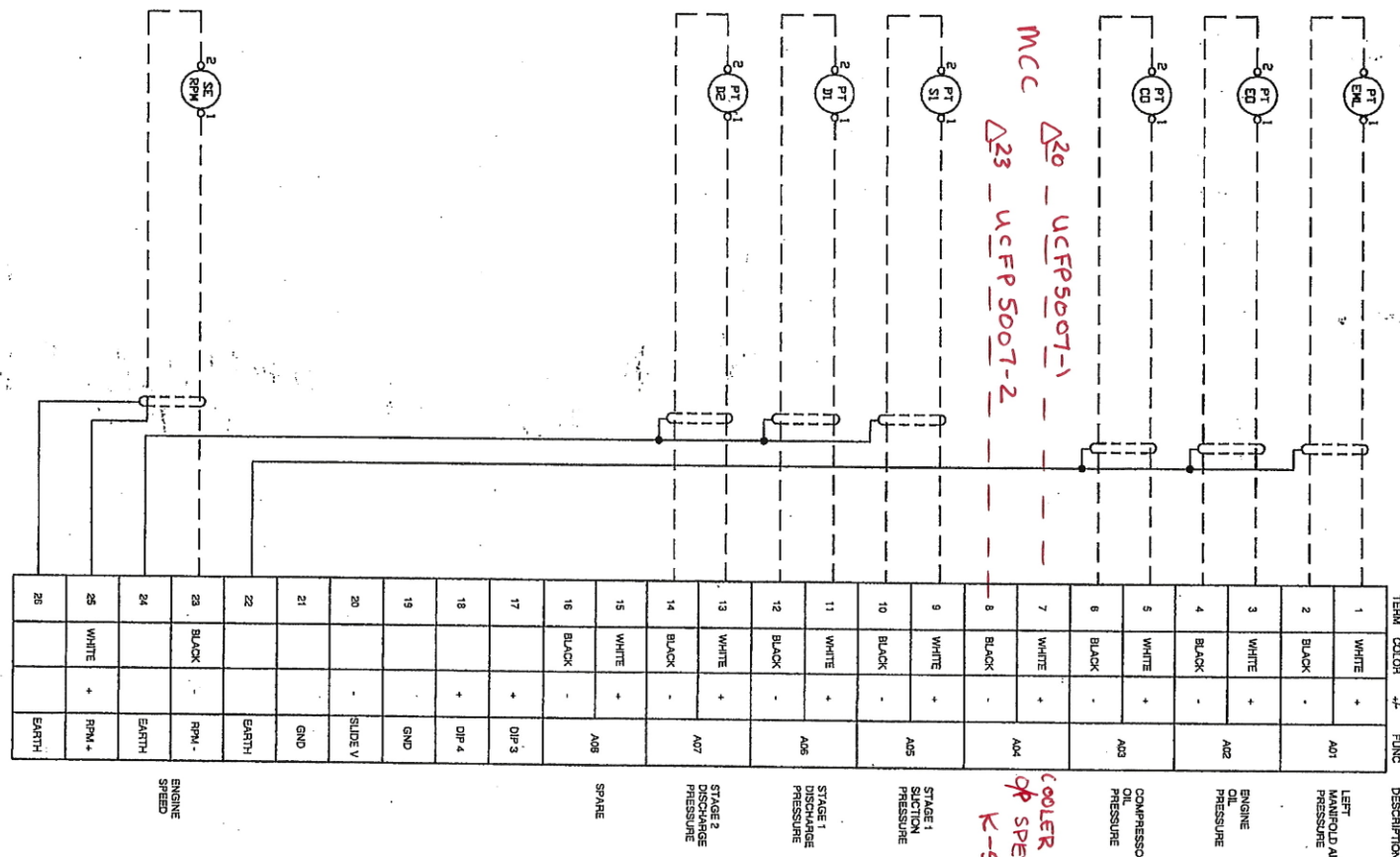
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Project Title		MGV ENERGY INC. RC 10290	
Drawing Title		INPUT BOARD #2 THERMOCOUPLE LAYOUT DRAWING	
SYNTECH Drawing Number	5190009-16	CUSTOMER Drawing Number	040919
		1 of 1 NTS	

Syntech

See dwg
D-9549-U-016 B
D-9549-T-011 D

MCC
Δ30 - UCFP5007-1
Δ23 - UCFP5007-2
COOLER FAN VFD
OF SPEED SIGNAL
K-500



NOTES ON DIP SETTINGS
MODE IS ALWAYS SET TO 0
DIP 1: SET TO 0 FOR TYPE J TCS
DIP 1: SET TO 1 FOR TYPE K TCS
DIP 2,3 AND 4 SET TO BOARD ADDRESS

TERM	COLOR	+	FUNC	DESCRIPTION
1	WHITE	+	A01	LEFT HAND COOL AIR PRESSURE
2	BLACK	-		
3	WHITE	+	A02	ENGINE OIL PRESSURE
4	BLACK	-		
5	WHITE	+	A03	COMPRESSOR OIL PRESSURE
6	BLACK	-		
7	WHITE	+	A04	
8	BLACK	-		
9	WHITE	+	A05	STAGE 1 SUCTON PRESSURE
10	BLACK	-		
11	WHITE	+	A06	STAGE 1 DISCHARGE PRESSURE
12	BLACK	-		
13	WHITE	+	A07	STAGE 2 DISCHARGE PRESSURE
14	BLACK	-		
15	WHITE	+	A08	SPARE
16	BLACK	-		
17		+	DP 3	
18		+	DP 4	
19			GND	
20		-	SLIDE V	
21			GND	
22			EARTH	
23	BLACK	-	RPM +	ENGINE SPEED
24			EARTH	
25	WHITE	+	RPM +	
26			EARTH	

TERM	COLOR	+	FUNC	DESCRIPTION
1	WHITE	+	D01	ENGINE OIL LEVEL
2	BLACK	-		
3	WHITE	+	D02	ENGINE COOLER WATER LEVEL
4	BLACK	-		
5	WHITE	+	D03	FUEL GAS SEPARATOR LEVEL
6	BLACK	-		
7	WHITE	+	D04	COMPRESSOR OIL LEVEL
8	BLACK	-		
9	WHITE	+	D05	LEFT COMPRESSOR NO FLOW
10	BLACK	-		
11	WHITE	+	D06	COOLER VIBRATION
12	BLACK	-		
13	WHITE	+	D07	STAGE 1 SEPARATOR LEVEL
14	BLACK	-		
15	WHITE	+	D08	STAGE 2 SEPARATOR LEVEL
16	BLACK	-		
17	WHITE	+	D09	VFD FAULT STATUS
18	BLACK	-		
19	WHITE	+	D10	STARTER MCC STATUS
20	BLACK	-		
21	WHITE	+	D11	STAGE 1 SEPARATOR DUMP
22	BLACK	-		
23	WHITE	+	D12	SPARE
24	BLACK	-		
25			EARTH	
26			EARTH	

NOTES:
1. WHEN FIRE LOOP OPTION IS USED, TERMINATE TO BARRIER PELL-900
LEGEND
1. PANEL WIRING
2. SKID WIRING
3. FIELD WIRING
4. UNUSED TERMINAL
5. FUSED TERMINAL
6. FEED THROUGH TERMINAL
7. DISCONNECT TERMINAL
WIRE COLOR LEGEND
1. +24VDC: RED
2. -24VDC: YELLOW
3. SWITCHED: ORANGE
4. ANALOG INPUT/OUTPUT -: BLACK
5. ANALOG INPUT/OUTPUT +: WHITE
6. ANALOG LOOP: PURPLE
7. Δ

Project Title		MGV ENERGY INC.	
Drawing Title		ANALOG / DISCRETE LAYOUT DRAWING	
Drawing Number		5190009-17	
Customer Drawing Number		040919	
Syntech Drawing Number		1 of 1	
Syntech Drawing Number		NTS	

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