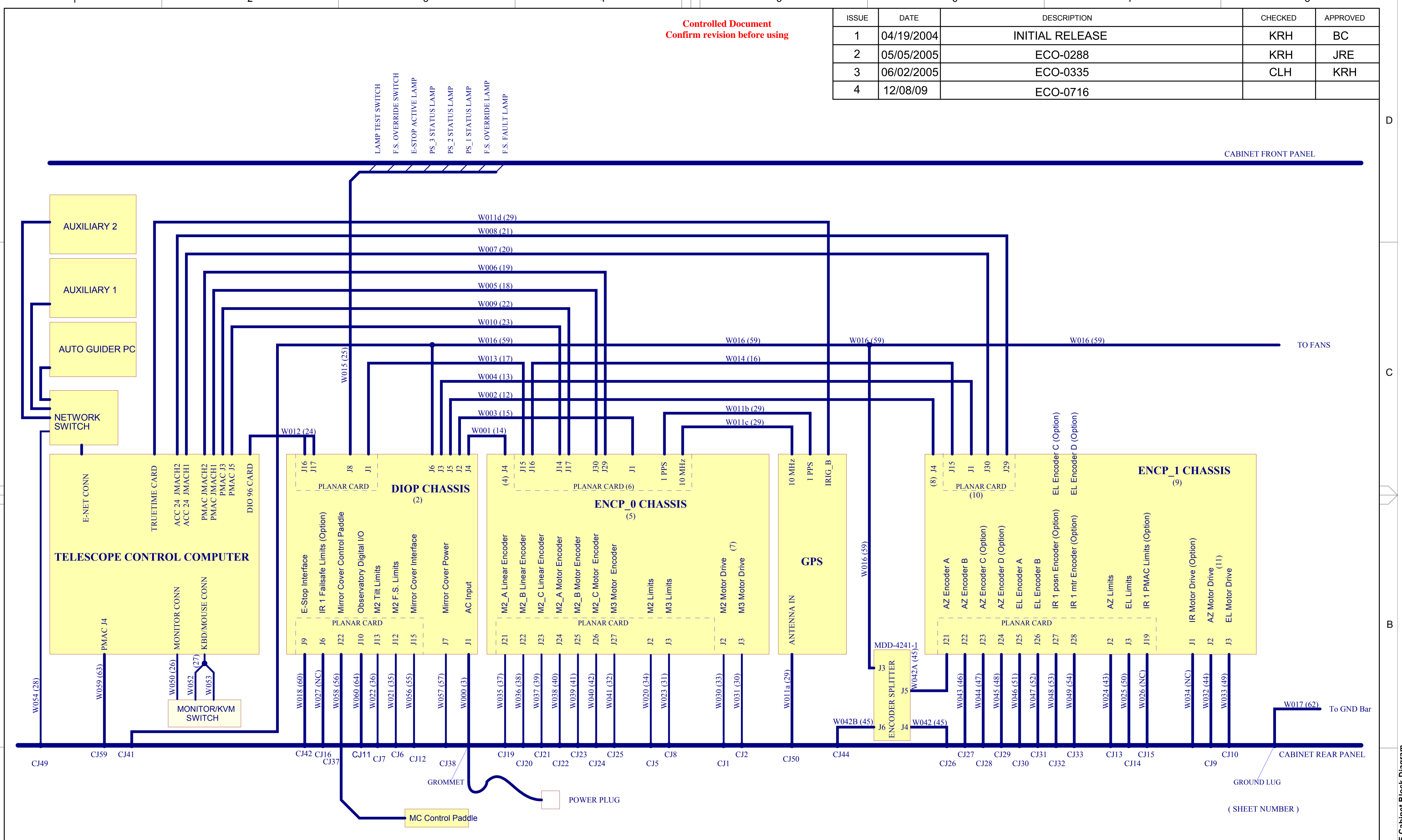


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Confirm revision before using

ISSUE	DATE	DESCRIPTION	CHECKED	APPROVED
1	04/19/2004	INITIAL RELEASE	KRH	BC
2	05/05/2005	ECO-0288	KRH	JRE
3	06/02/2005	ECO-0335	CLH	KRH
4	12/08/09	ECO-0716		



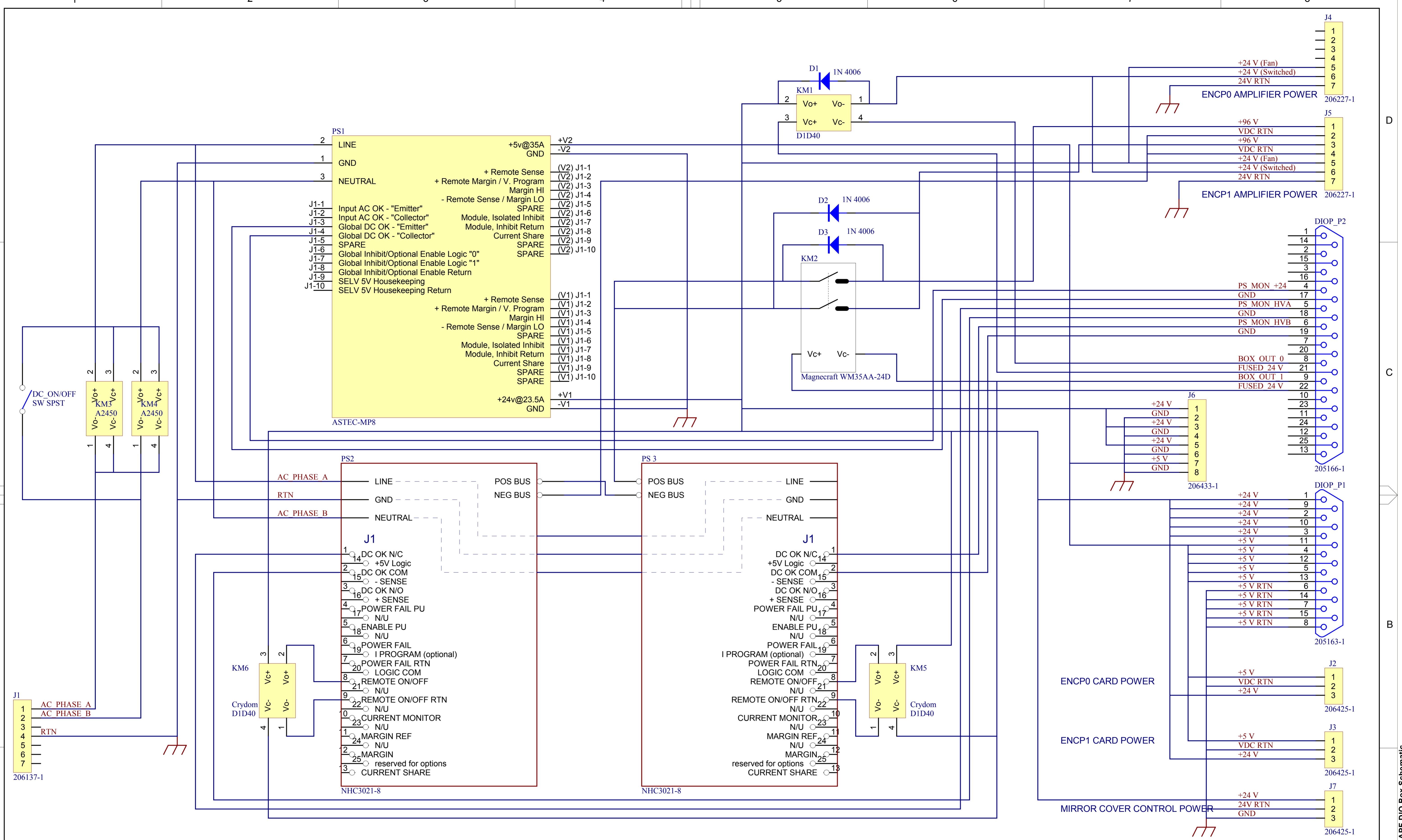
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DESIGN	DATE	EOS Technologies, Inc. 3160 E. TRANSCON WAY, Suite 180 TUCSON, ARIZONA 85706 USA LICK APF Cabinet Block Diagram
J. Mark Croft	6/2/05	
CHECKED	DATE	
Cal L. Haines	6/2/05	
APPROVED	DATE	
Kevin R. Harris	6/2/05	
CONFIGURED	DATE	DOCUMENT NUMBER
Edith Hatch	6/3/05	SCH-5376-4
		SIZE
		A3
		DOCUMENT NUMBER
		SCH-5376-4
		SHEET 1 OF 64

FILE C:\Ggay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\APF_CAB_BLK_DIAG.SCHDOC
 PRINTED 12/8/2009 4:07:19 PM
 TEMPLATE: Eost_tabloid_SUBS

SCH-5376-4 LICK APF Cabinet Block Diagram



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TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF DIO Box Schematic

DOCUMENT NUMBER

SCH-5376-4

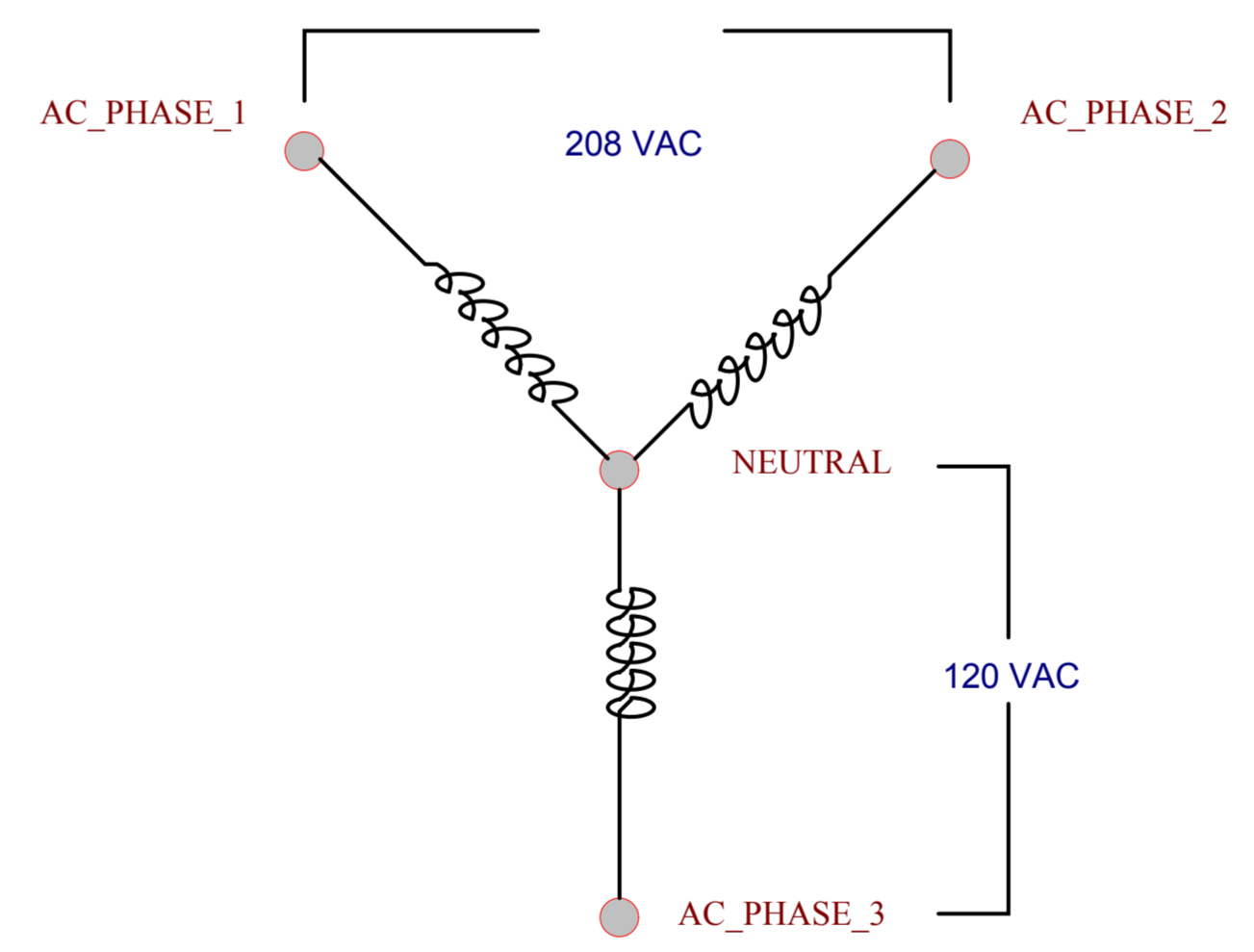
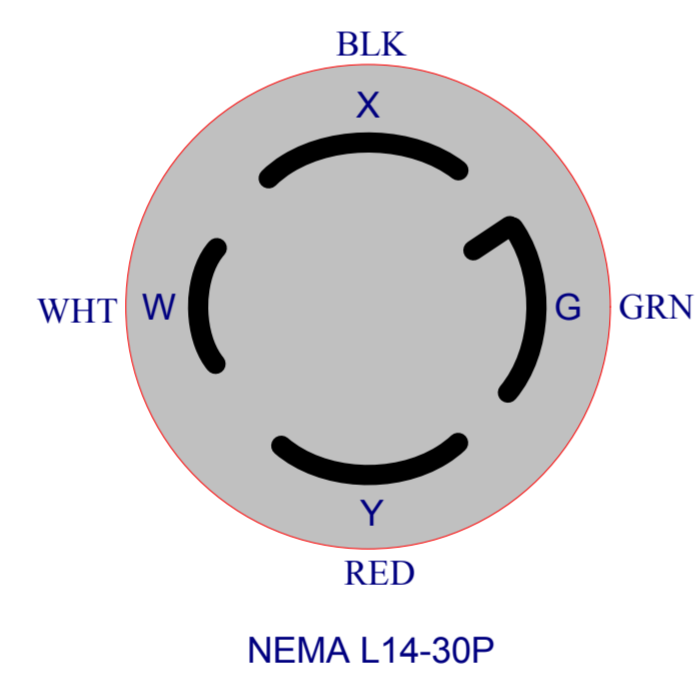
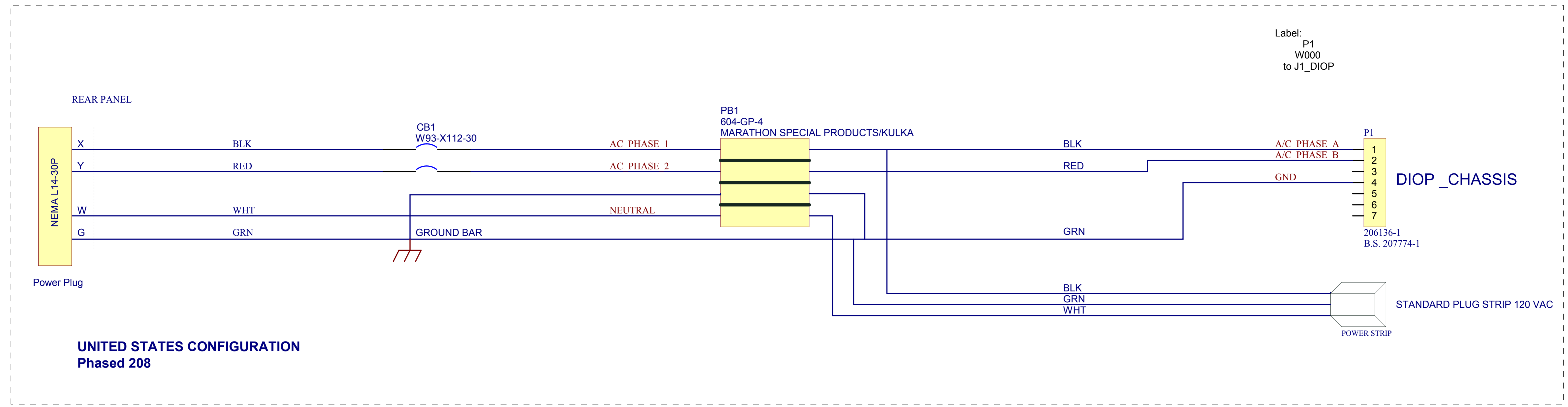
SIZE

A3

EastConfig SCH-5376-4

SHEET 2 OF 64

LICK APF DIO Box Schematic
SCH-5376-4



LENGTHS:

- 1) BACK PANEL TO CB1: 228.6CM (90")
- 2) CB1 TO AC PWR DIST: 15.25CM (6")
- 3) AC PWR DIST TO AC LAMP: 20.3CM (8")
- 4) AC PWR DIST TO P6: 267.5CM (85")
- 5) CB1 TO COMPUTER: 119.4CM (47")

WIRE TYPE:

LENGTHS 1 & 2 & 4 ARE Alpha 87605
 LENGTH NO. 3 IS 2EA 20GA.
 LENGTH N0.5 IS THE POWER CORD PROVIDED BY THE MANF. CUT TO LENGTH.

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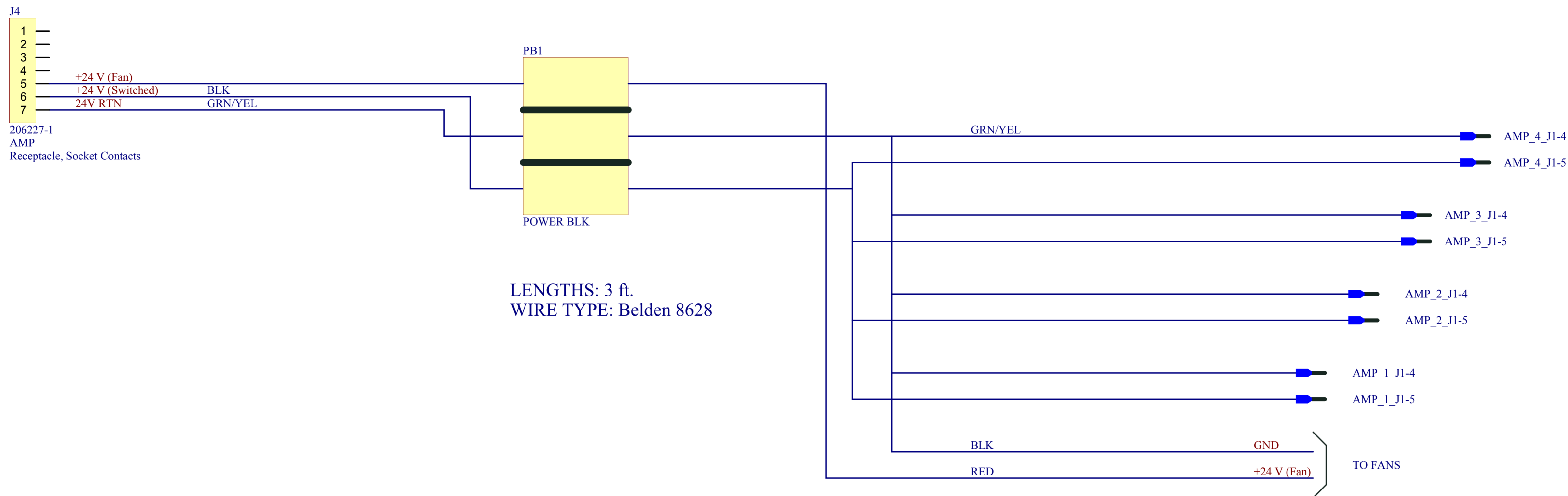
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
LICK APF Cabinet Power Connection

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 3 OF 70



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TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Voltage Input

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 4

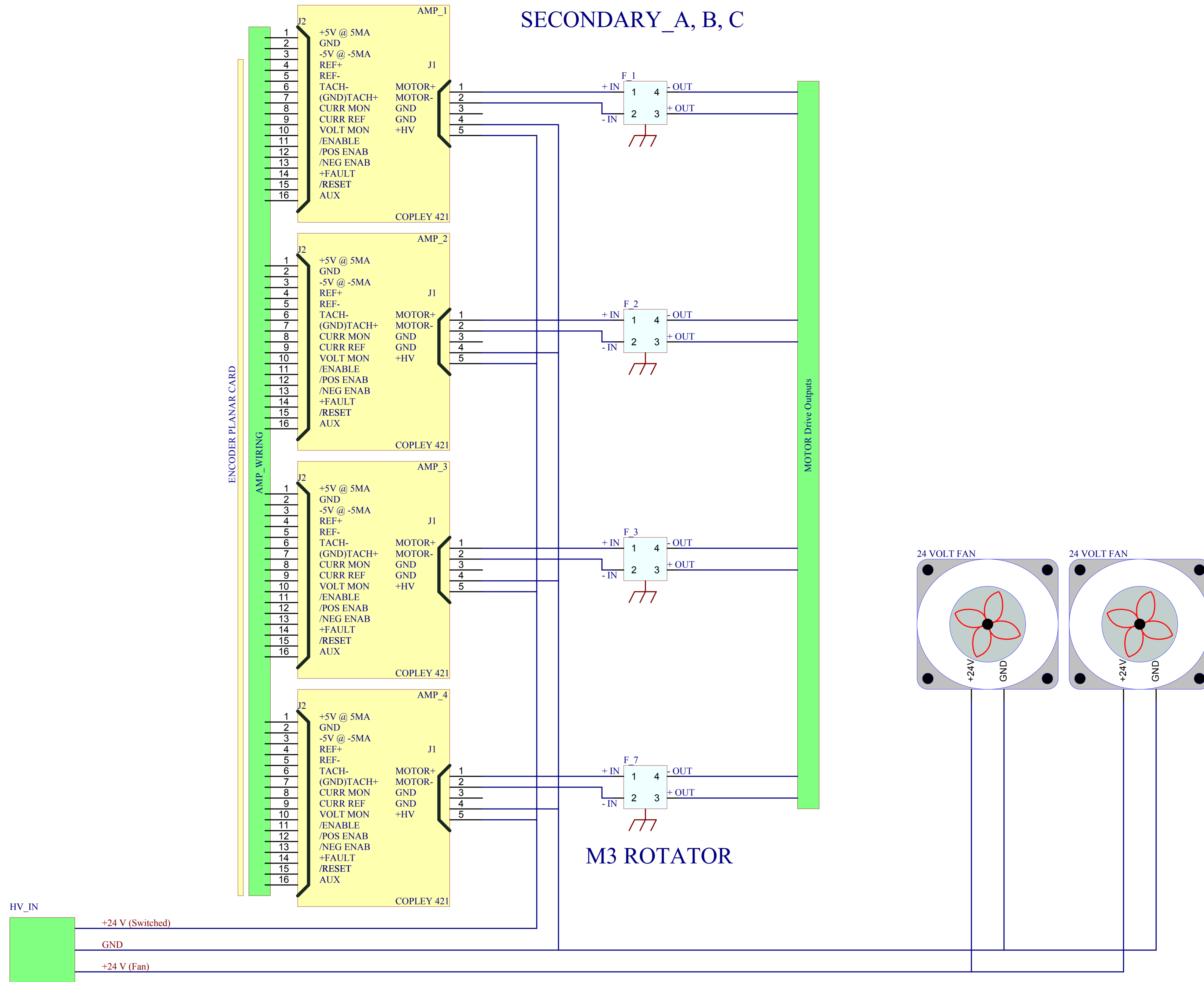
OF

64

LICK APF ENCP0 Voltage Input

SCH-5376-4

SECONDARY_A, B, C



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TITLE

LICK APF ENCP0 Block Diagram

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 5

OF

64

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

ENCODER PLANAR



22-01-3167 w/08-50-0114 pins

WIRE TYPE: Belden 9616

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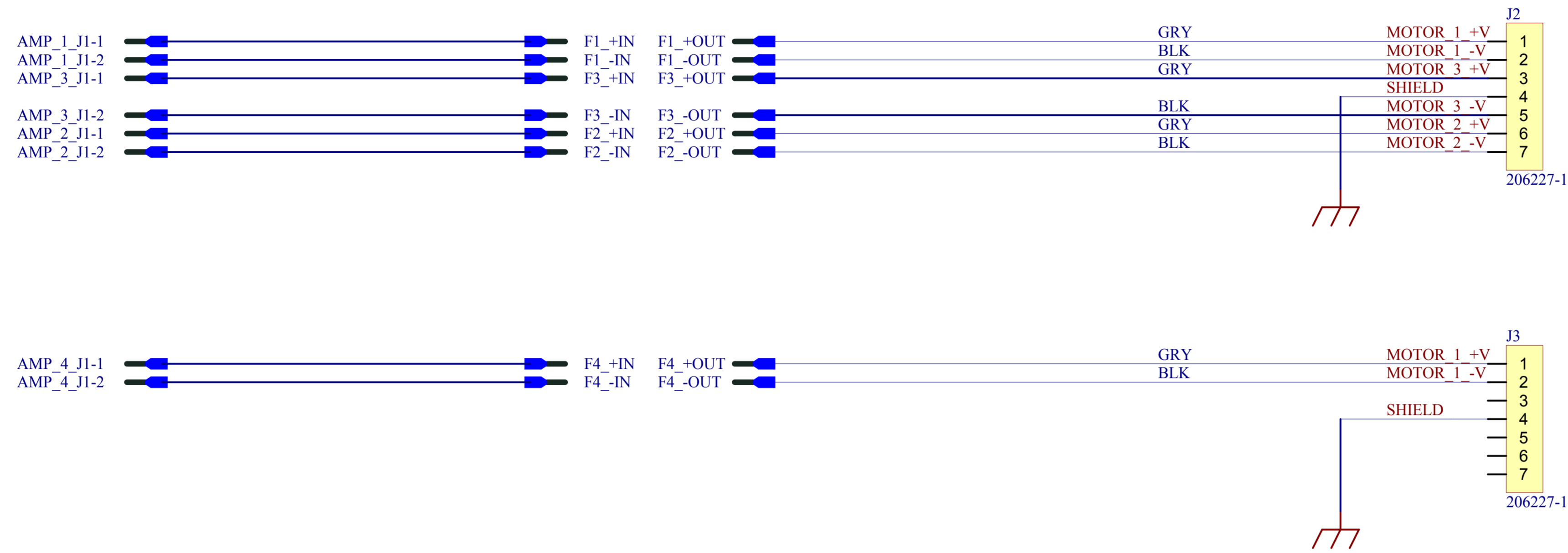
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TITLE
LICK APF ENCP0 Amplifier Interface

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 6 OF 64

SCH-5376-4 LICK APF ENCP0 Amplifier Interface



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TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP0 Motor Drive Outputs

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

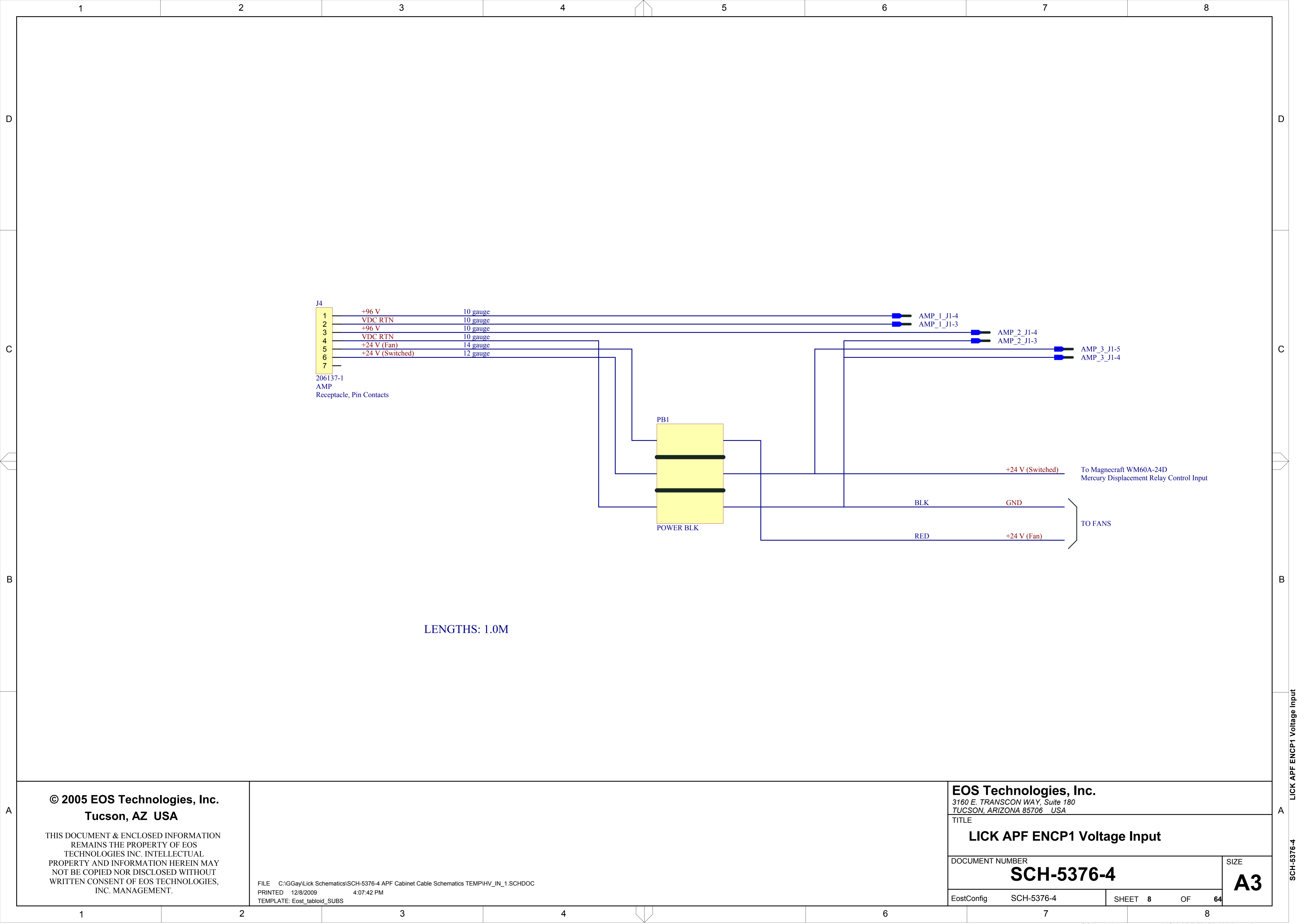
EastConfig

SCH-5376-4

SHEET 7

OF

64



LENGTHS: 1.0M

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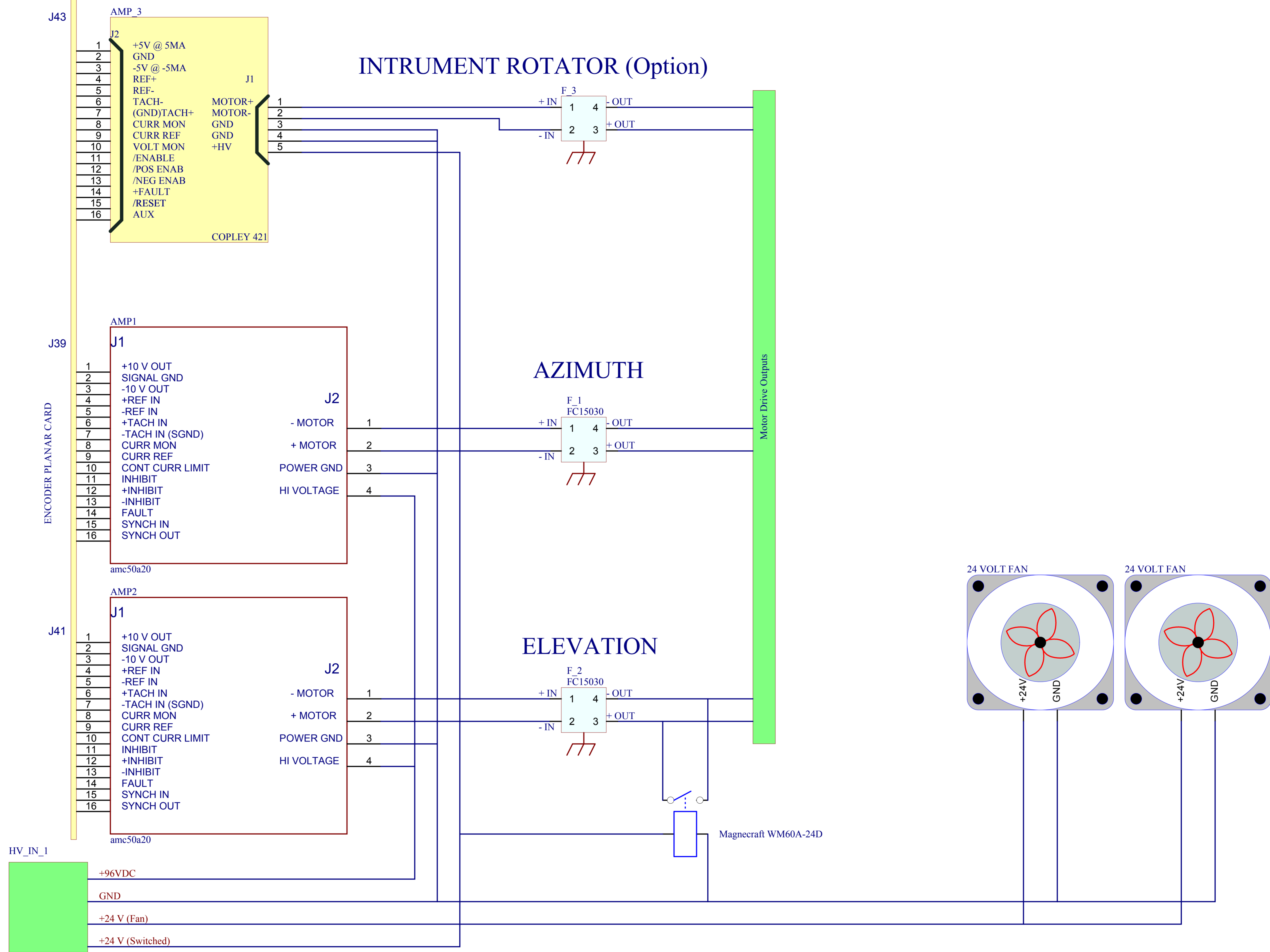
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
LICK APF ENCP1 Voltage Input

DOCUMENT NUMBER
SCH-5376-4 SIZE
A3

EostConfig SCH-5376-4 SHEET 8 OF 64

LICK APF ENCP1 Voltage Input
SCH-5376-4



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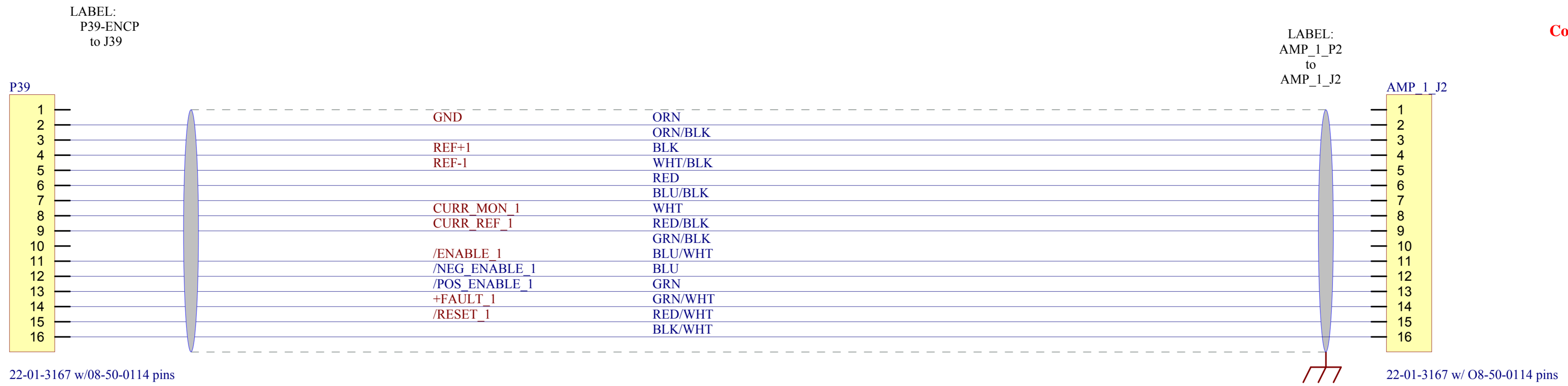
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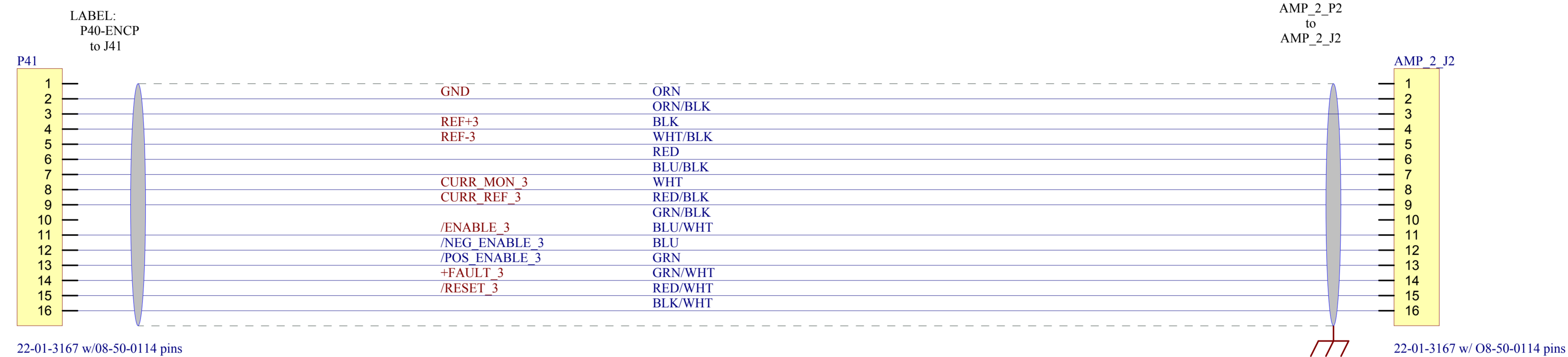
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DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 9 OF 64

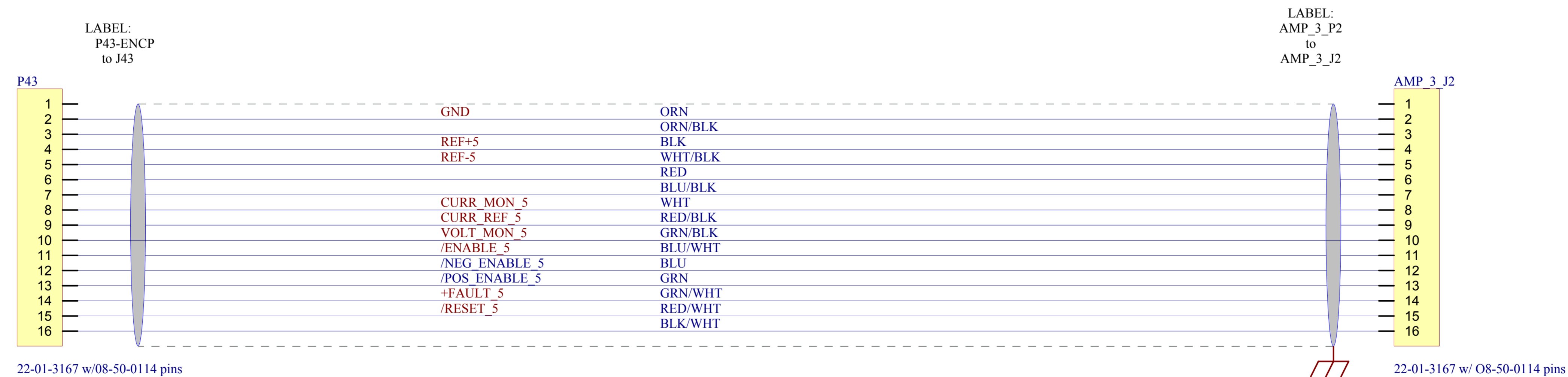
ENCODER PLANAR
AZIMUTH



ENCODER PLANAR
ELEVATION



ENCODER PLANAR
INSTRUMENT ROTATOR (Option)



WIRE TYPE: Belden 9616

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ENCP1 Amplifier Interface

DOCUMENT NUMBER

SCH-5376-4

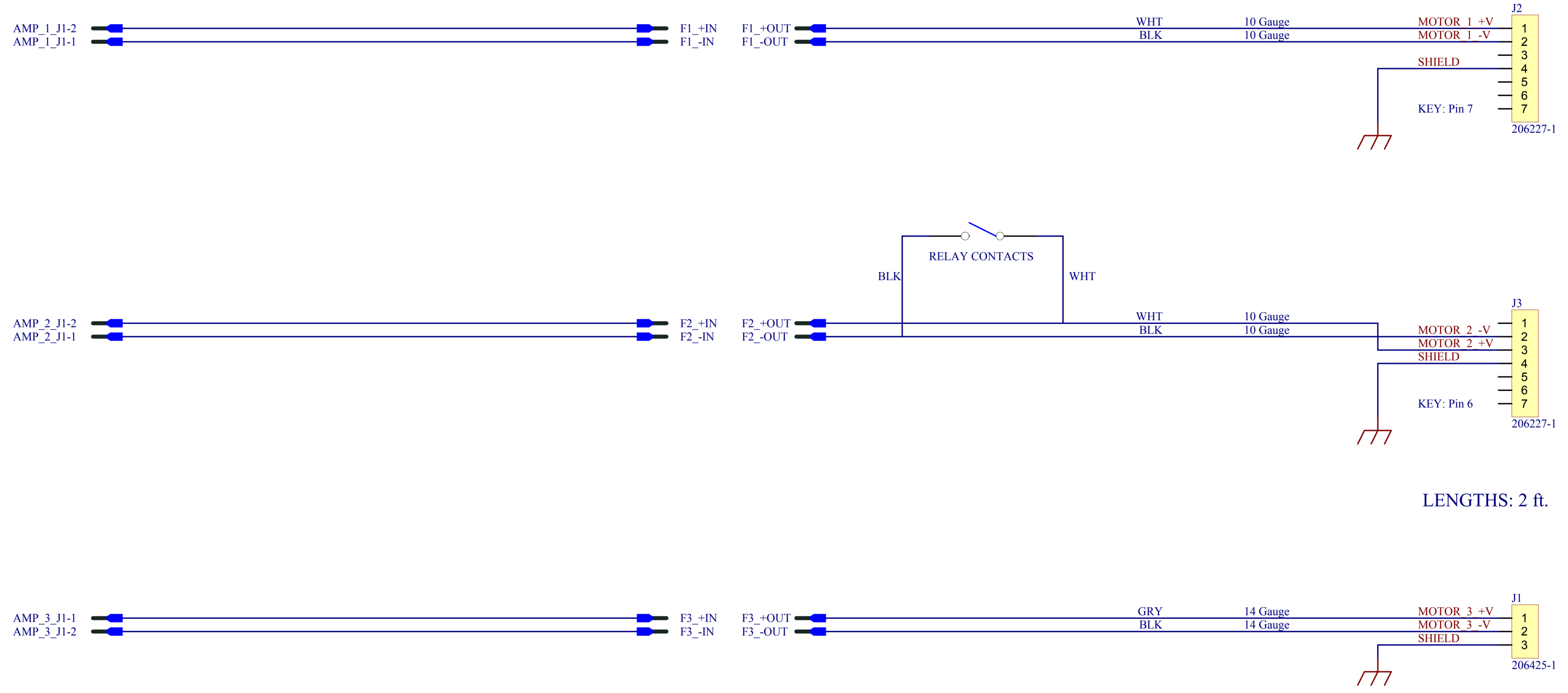
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EastConfig

SCH-5376-4

SHEET 10 OF 64



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TITLE

LICK APF ENCP1 Motor Drive Outputs

DOCUMENT NUMBER

SCH-5376-4

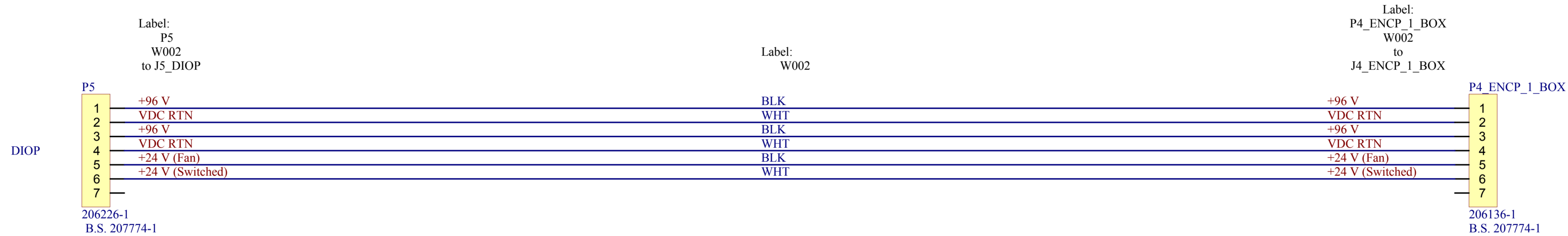
SIZE

A3

EostConfig SCH-5376-4

SHEET 11 OF 64

ENC1 AMPPLIFIER POWER



LENGTH: 47"
WIRE TYPE: PVAZBD6298

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TITLE

LICK APF ENCP1 Power

DOCUMENT NUMBER

SCH-5376-4

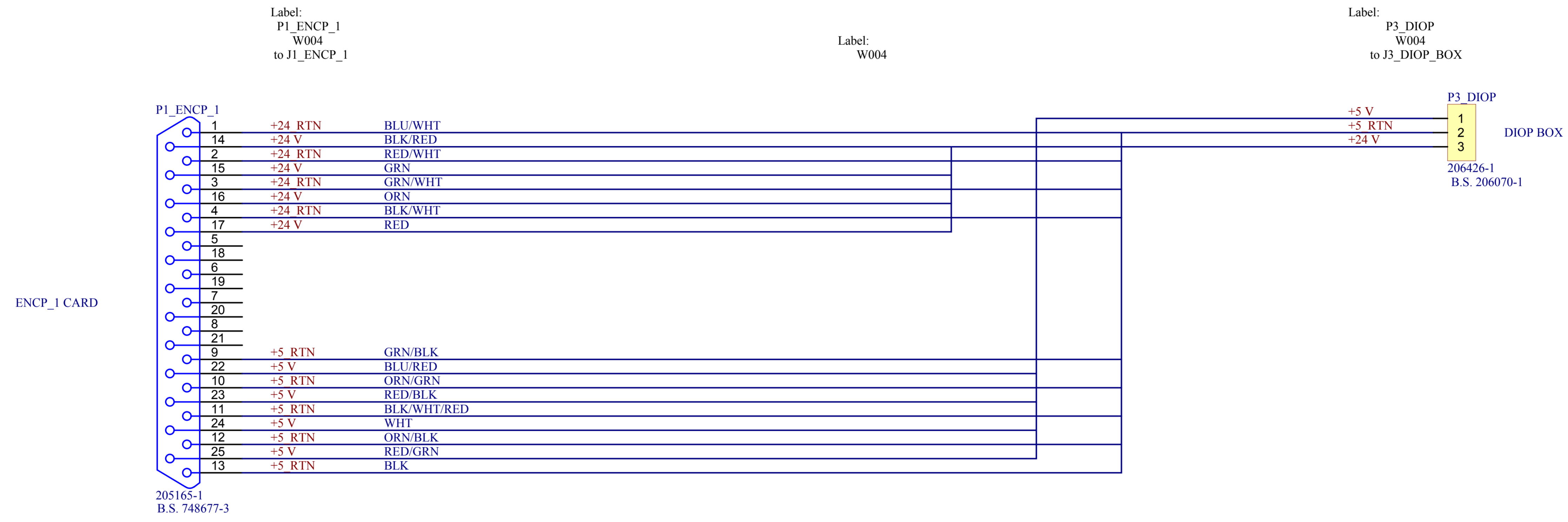
SIZE

A3

EastConfig SCH-5376-4

SHEET 12 OF 64

ENCP_1 CARD POWER



WIRE TYPE: ALPHA 6348
LENGTH: 41"

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TITLE

LICK APF ENCP1 Card Power

DOCUMENT NUMBER

SCH-5376-4

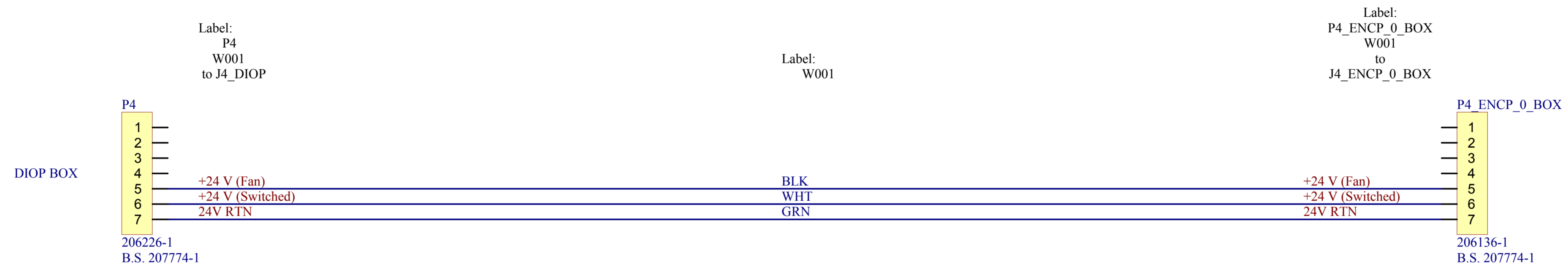
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A3

EastConfig SCH-5376-4

SHEET 13 OF 64

ENCP_0 AMPLIFIER POWER



WIRE TYPE: BELDEN 3 COND. 12 GA.
LENGTH: 46"

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TITLE

LICK APF ENCP0 Power

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EostConfig SCH-5376-4

SHEET 14 OF 64

LICK APF ENCP0 Power
SCH-5376-4

ENCP_0 CARD POWER

Label:
P1_ENCP_0
W003
to J1_ENCP_0

Label:
W003

Label:
P2_DIOP
W003
to
J2_DIOP_BOX

ENCP_0 CARD

P1_ENCP_0

1	+24 RTN	BLU/WHT
14	+24 V	BLK/RED
2	+24 RTN	RED/WHT
15	+24 V	GRN
3	+24 RTN	GRN/WHT
16	+24 V	ORN
4	+24 RTN	BLK/WHT
17	+24 V	RED
5		
18		
6		
19		
7		
20		
8		
21		
9	+5 RTN	GRN/BLK
22	+5 V	BLU/RED
10	+5 RTN	ORN/GRN
23	+5 V	RED/BLK
11	+5 RTN	BLK/WHT/RED
24	+5 V	WHT
12	+5 RTN	ORN/BLK
25	+5 V	RED/GRN
13	+5 RTN	BLK

205165-1
B.S. 748677-3

+5 V
VDC RTN
+24 V

P2_DIOP

1
2
3

206426-1
B.S. 206070-1

WIRE TYPE: ALPHA 6348
LENGTH: 44"

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TITLE

LICK APF ENCP0 Card Power

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

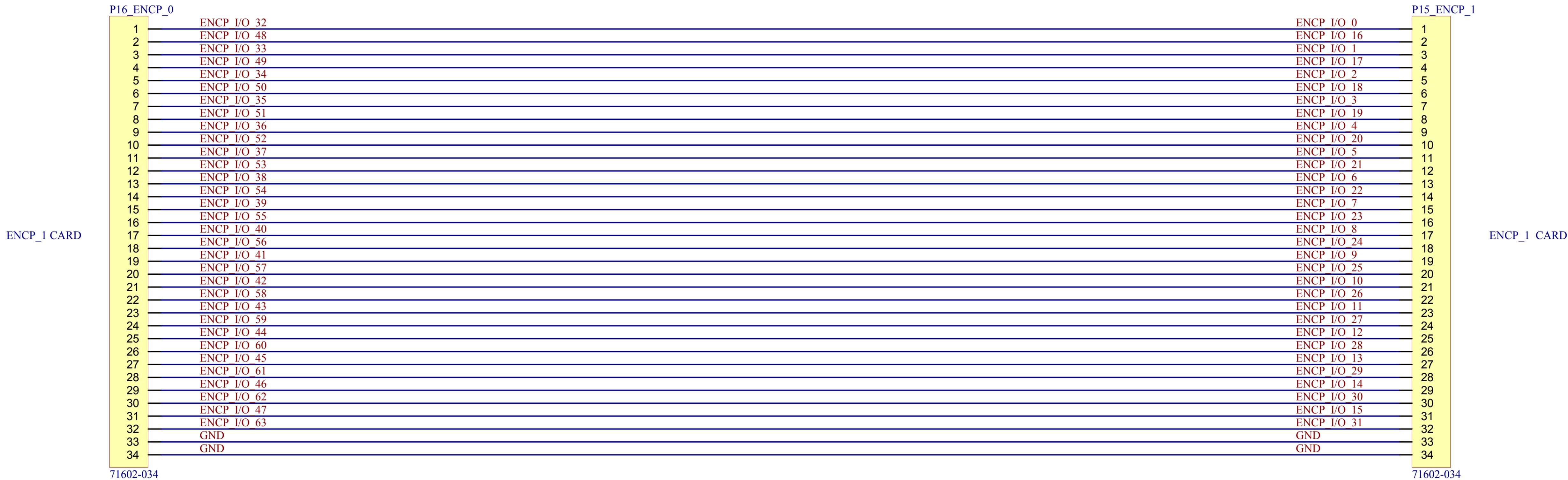
SHEET 15 OF 64

I/O BUS ENCP_0 to ENCP_1

Label:
P16_ENCP_0
W014
to J16_ENCP_0
CARD

Label:
W014

Label:
P15_ENCP_1
W014
to J15_ENCP_1
CARD



WIRE TYPE: 34 Conductor Ribbon Cable
LENGTH: 20"

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TITLE

LICK APF ENCP0 to ENCP1 Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

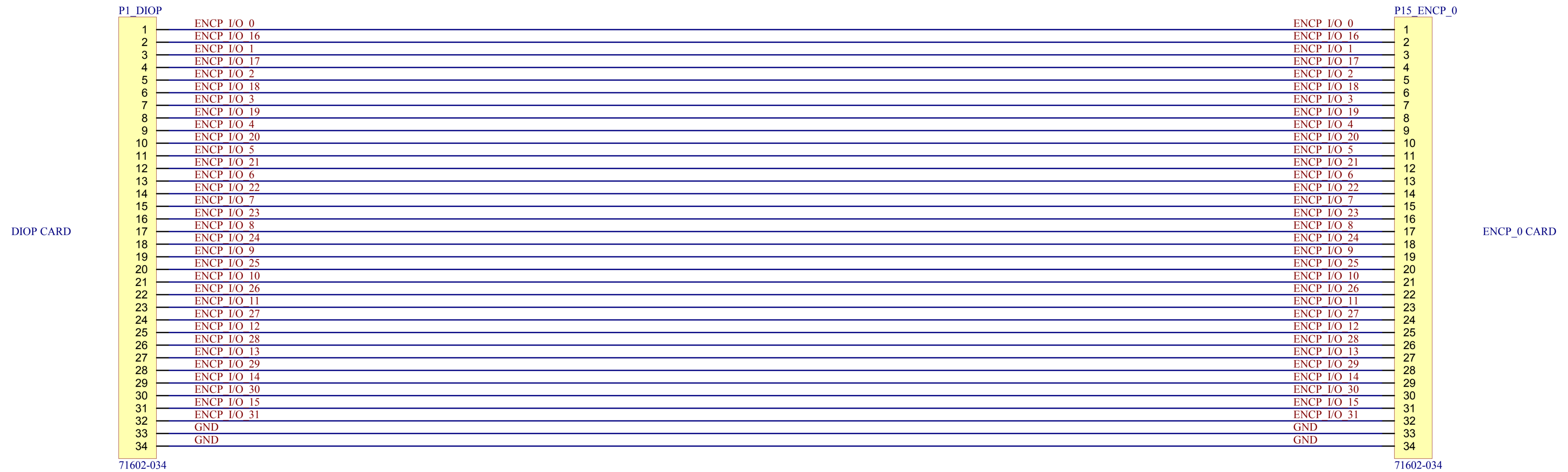
SHEET 16 OF 64

I/O BUS DIOP to ENCP_0

Label:
P1_DIOP
W013
to J1_DIOP
CARD

Label:
W013

Label:
P15_ENCP_0
W013
to J15_ENCP_0



WIRE TYPE: 34 Conductor Ribbon Cable
LENGTH: 37"

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TITLE

LICK APF ENCP0 to DIOP Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

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EastConfig

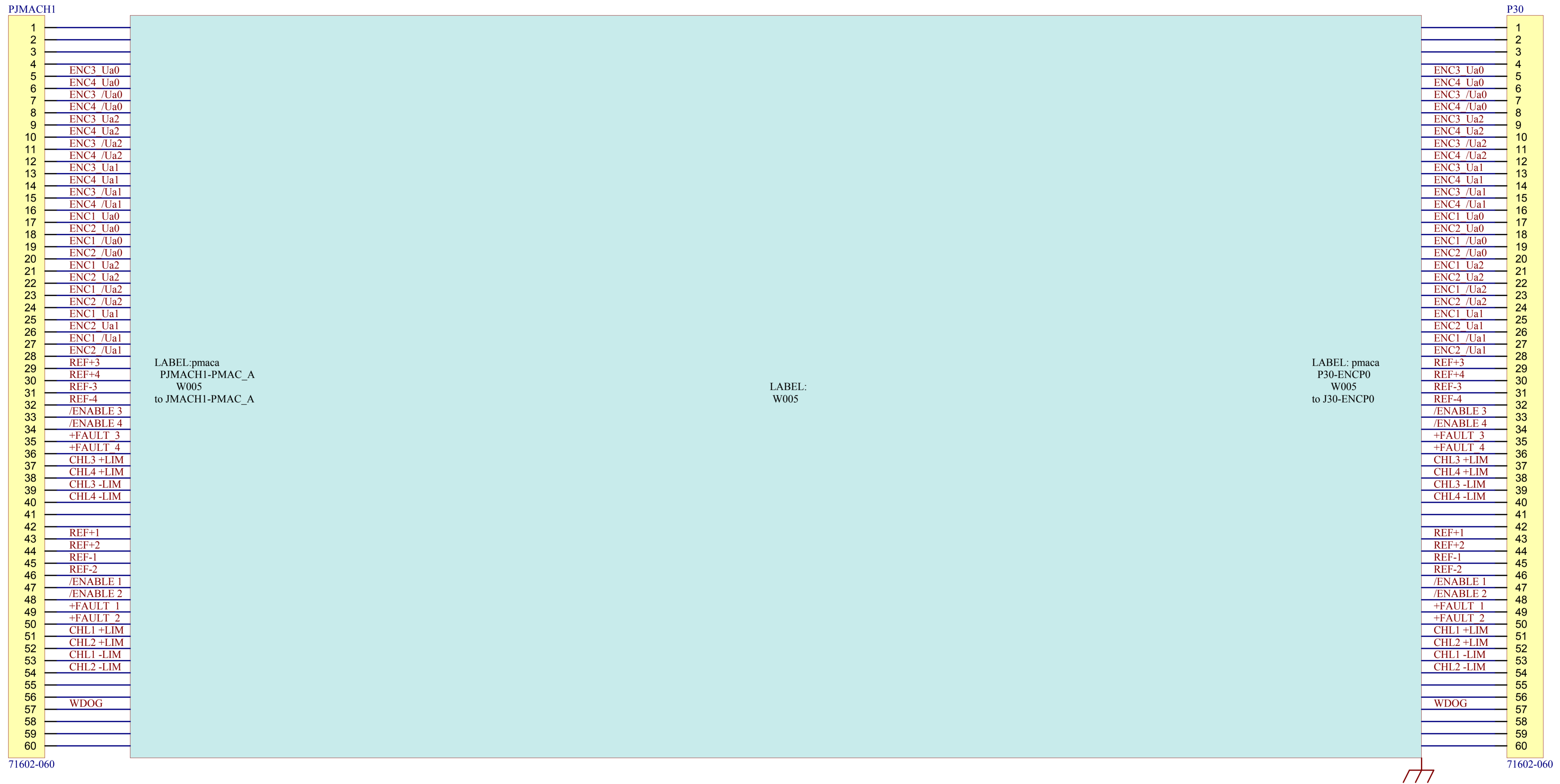
SCH-5376-4

SHEET 17

OF

64

PMAC JMACHI CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
 LENGTHS: PMACA: 31"

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TITLE

LICK APF PMAC MACH1 to ENCP0 Interface

DOCUMENT NUMBER

SCH-5376-4

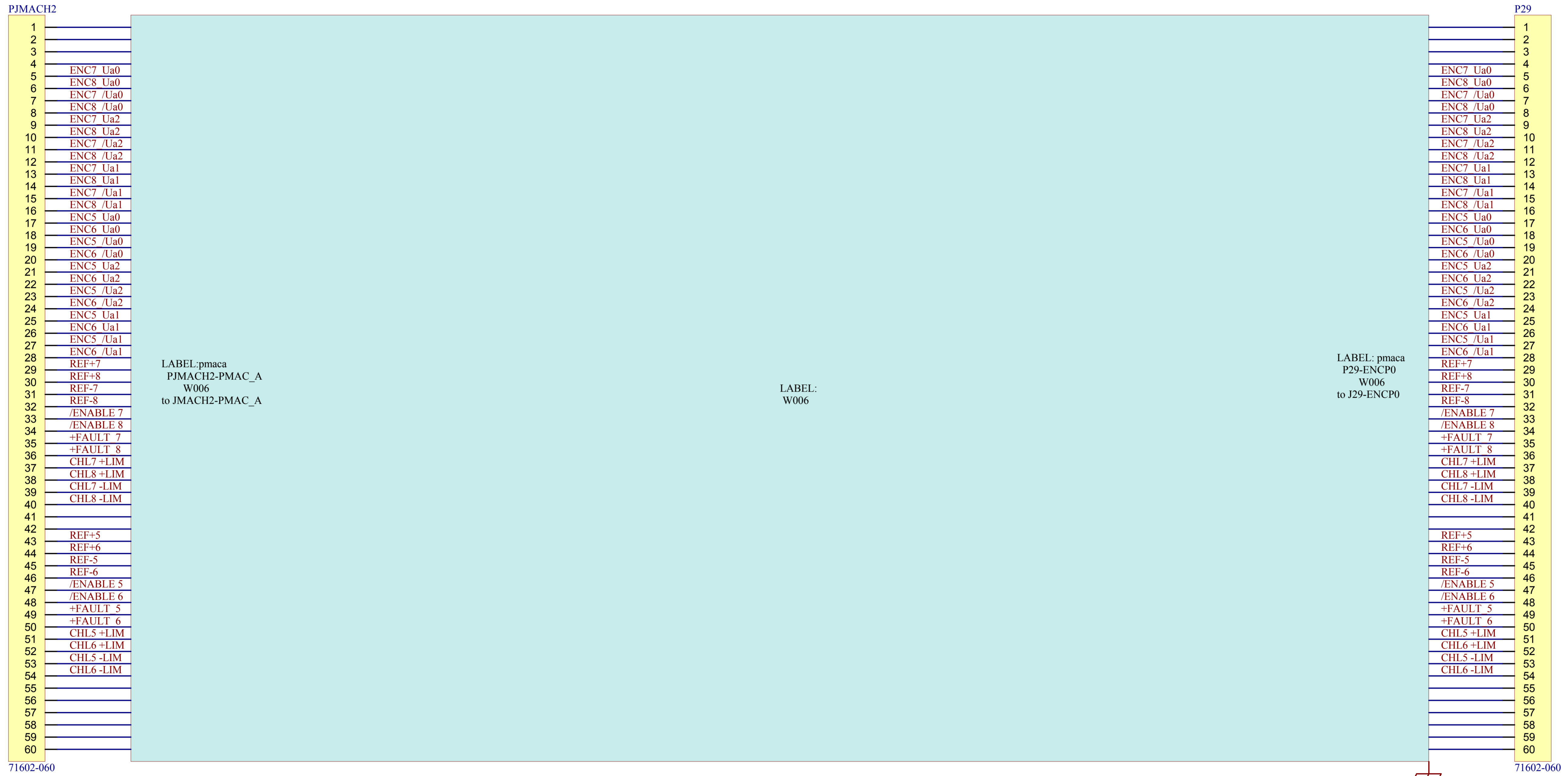
SIZE

A3

EastConfig SCH-5376-4

SHEET 18 OF 64

PMAC JMACH2 CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
 LENGTHS: PMACA: 36"

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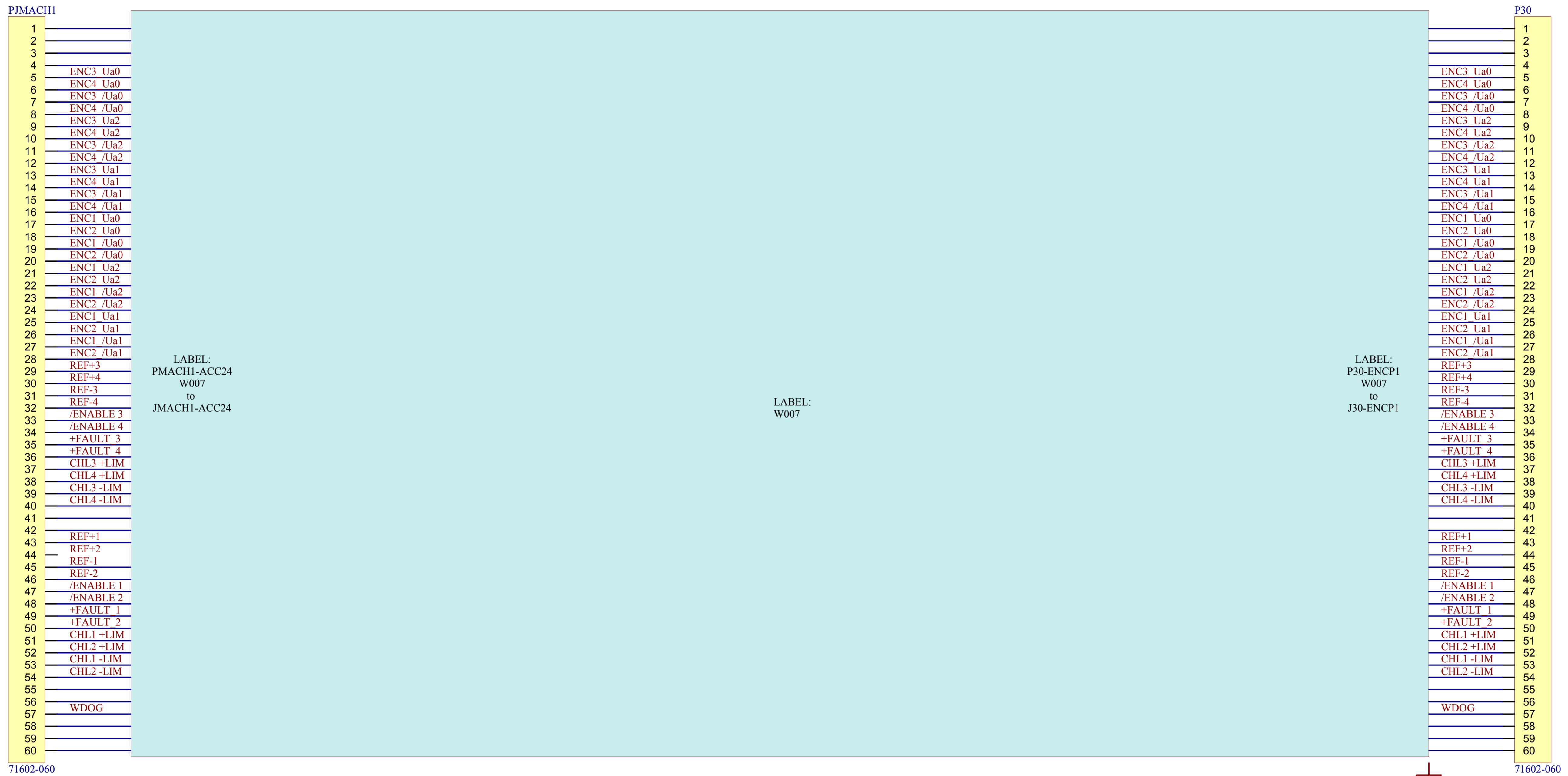
TITLE
LICK APF PMAC MACH2 to ENCP0 Interface

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 19 OF 64

SCH-5376-4 LICK APF PMAC MACH2 to ENCP0 Interface

Controlled Document
Confirm revision before using

ACC24 JMACH1 CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
LENGTHS: ACC24: 26"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\acc24jmach1W007.SCHDOC
PRINTED 12/8/2009 4:07:12 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ACC24 MACH1 to ENCP1 Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 20

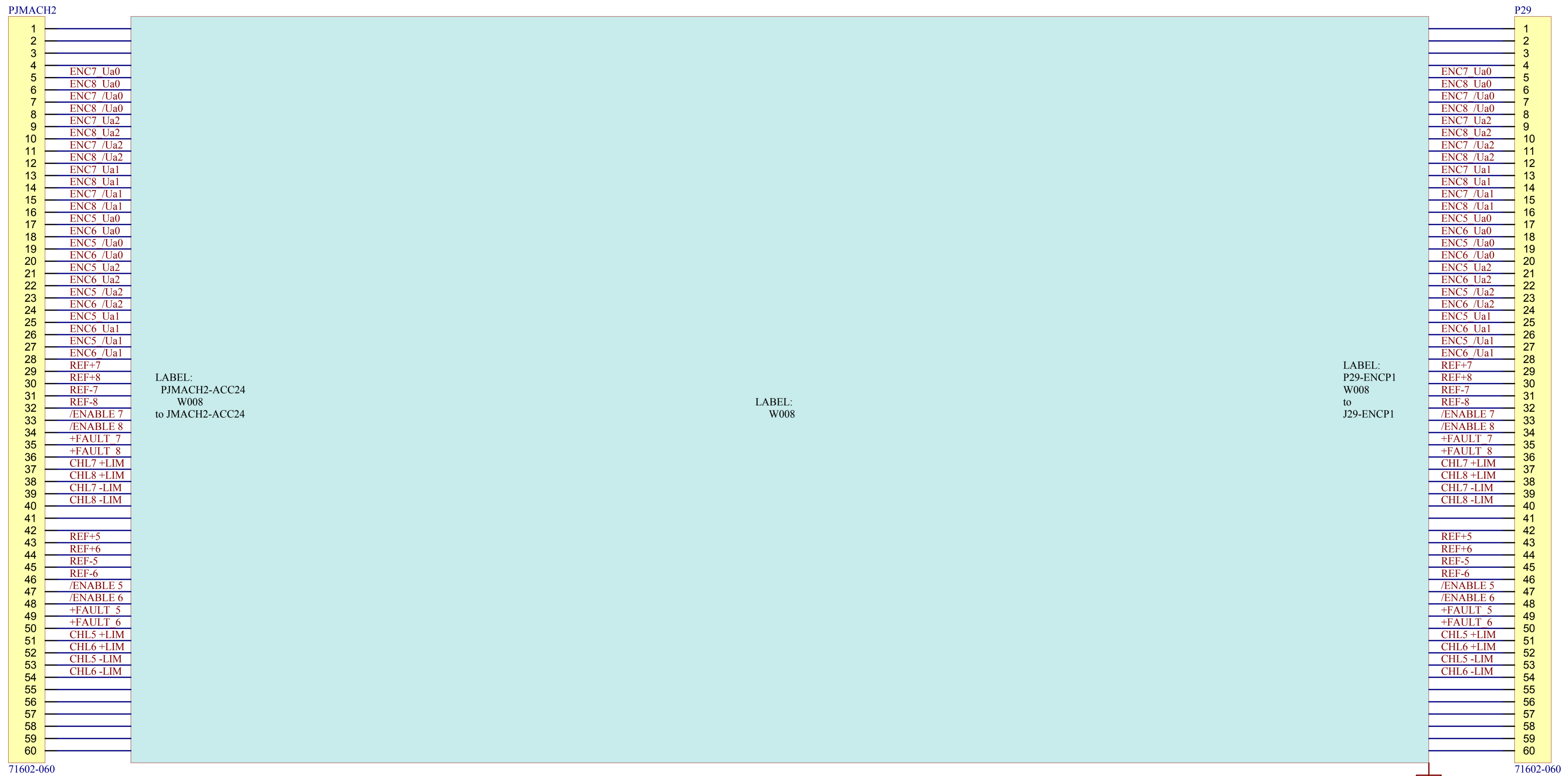
OF

64

SCH-5376-4-ICK APF ACC24 MACH1 to ENCP1 Interface

Controlled Document
Confirm revision before using

ACC24 JMACH2 CABLE



WIRE TYPE:843-159-2801-060 Shielded ribbon cable
LENGTHS: ACC24: 35"

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PRINTED 12/8/2009 4:07:13 PM
TEMPLATE: Eost_tabloid_SUBS

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TUCSON, ARIZONA 85706 USA

TITLE

LICK APF ACC24 MACH2 to ENCP1 Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 21

OF

64

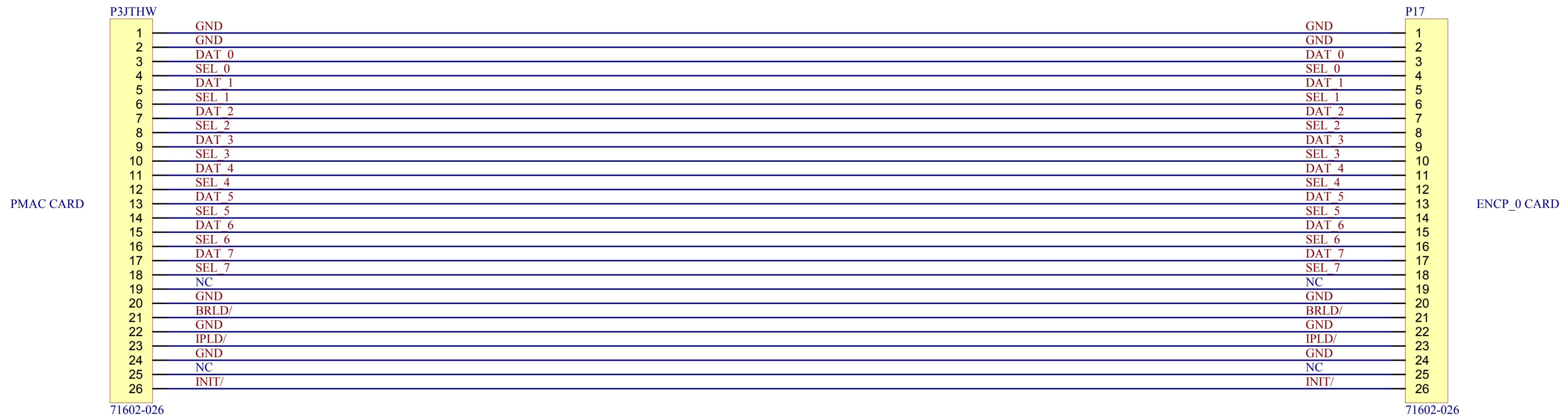
SCH-5376-4 LICK APF ACC24 MACH2 to ENCP1 Interface

PMAC J3JTHW CONNECTING CABLE

Label:
P3JTHW
W009
to J3JTHW
PMAC_A

Label:
W009

Label:
P17_ENC0_0
W009
to J17_ENC0_0



26 CONDUCTOR RIBBON CABLE
LENGTH: 44"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\j3jthwW009.SCHDOC
PRINTED 12/8/2009 4:07:43 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF PMAC DAT/SEL Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 22 OF 64

PMAC J5JOPT CONNECTING CABLE

Label:
P5JOPT
W010
to J5JOPT
PMAC_A

Label:
W010

Label:
P14_ENCP_0
W010
to J14_ENCP_0

P5JOPT

1	PMAC INPUT 0
2	GND
3	PMAC INPUT 1
4	GND
5	PMAC INPUT 2
6	GND
7	PMAC INPUT 3
8	GND
9	PMAC INPUT 4
10	GND
11	PMAC INPUT 5
12	GND
13	PMAC INPUT 6
14	GND
15	PMAC INPUT 7
16	GND
17	PMAC OUTPUT 0
18	GND
19	PMAC OUTPUT 1
20	GND
21	PMAC OUTPUT 2
22	GND
23	PMAC OUTPUT 3
24	GND
25	PMAC OUTPUT 4
26	GND
27	PMAC OUTPUT 5
28	GND
29	PMAC OUTPUT 6
30	GND
31	PMAC OUTPUT 7
32	GND
33	NC
34	GND

PMAC CARD

71602-034

P14

1	PMAC INPUT 0
2	GND
3	PMAC INPUT 1
4	GND
5	PMAC INPUT 2
6	GND
7	PMAC INPUT 3
8	GND
9	PMAC INPUT 4
10	GND
11	PMAC INPUT 5
12	GND
13	PMAC INPUT 6
14	GND
15	PMAC INPUT 7
16	GND
17	PMAC OUTPUT 0
18	GND
19	PMAC OUTPUT 1
20	GND
21	PMAC OUTPUT 2
22	GND
23	PMAC OUTPUT 3
24	GND
25	PMAC OUTPUT 4
26	GND
27	PMAC OUTPUT 5
28	GND
29	PMAC OUTPUT 6
30	GND
31	PMAC OUTPUT 7
32	GND
33	NC
34	GND

ENCP_0 CARD

71602-034

34 CONDUCTOR RIBBON CABLE
LENGTHS: 42"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\j5optW010.SCHDOC
PRINTED 12/8/2009 4:07:44 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF PMAC Machine IO Interface

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 23 OF 64

DIO96 INTERFACE

Controlled Document
Confirm revision before using

DIOP

P16
71602-050

P17
71602-050

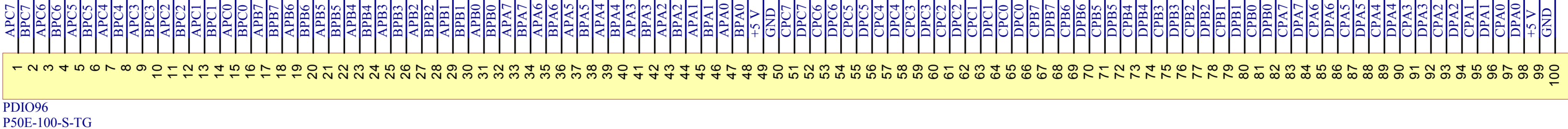
LABEL:
P16-DIOP
W012
to J16-DIOP

LABEL:
P17-DIOP
W012
to J17-DIOP

LABEL:
W012

LABEL:
W012

LABEL:
PDIO 96 CARD
W012
to JDIO 96 CARD



WIRE TYPE:843-191-2801-050
LENGTHS: 18"

DIO_96

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\dio96W012.SCHDOC
PRINTED 12/8/2009 4:07:26 PM
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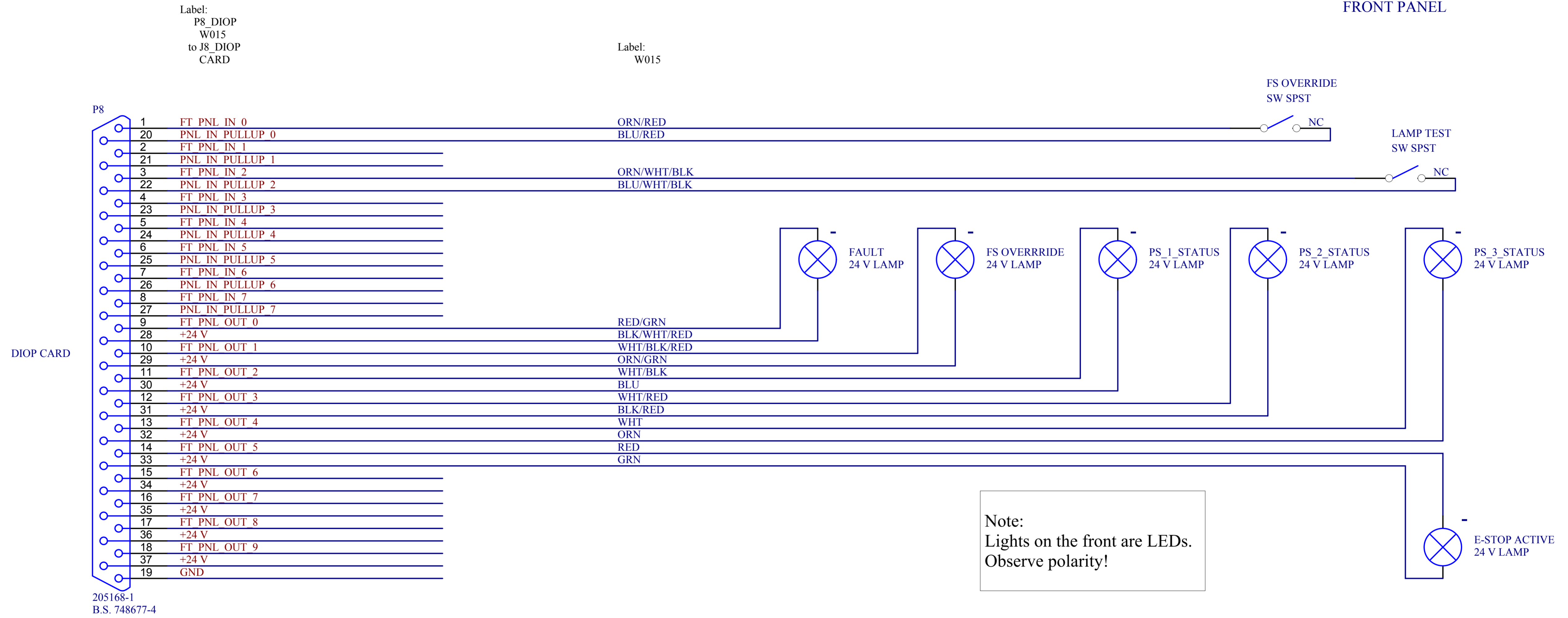
TITLE
LICK APF DIOP to DIO96 Interface

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 24 OF 64

SCH-5376-4 LICK APF DIOP to DIO96 Interface

FRONT PANEL I/O CABLE

FRONT PANEL



WIRE TYPE: ALPHA 6348
LENGTH: 80"

Note:
Lights on the front are LEDs.
Observe polarity!

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\fpnlW015.SCHDOC
PRINTED 12/8/2009 4:07:40 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

LICK APF Front Panel Interconnects

DOCUMENT NUMBER

SCH-5376-4

SIZE

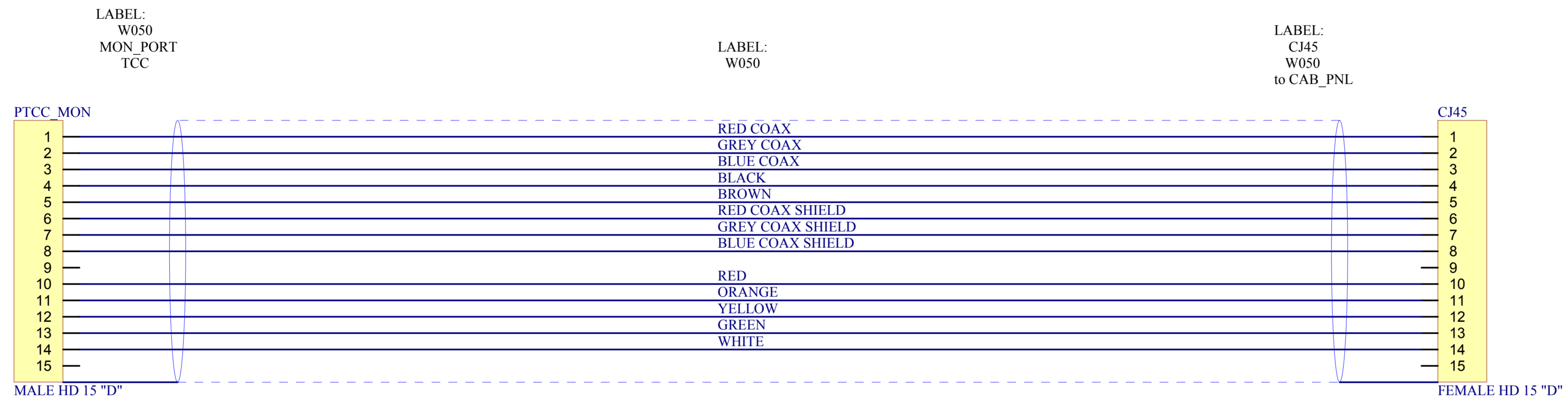
A3

EastConfig

SCH-5376-4

SHEET 25 OF 64

MONITOR EXTENSION CABLE



LENGTH: 48"
 WIRE TYPE: OTS MONITOR CABLE

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\monW050.SCHDOC
 PRINTED 12/8/2009 4:07:57 PM
 TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
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TITLE

APF Monitor Extension Cable

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 26

OF

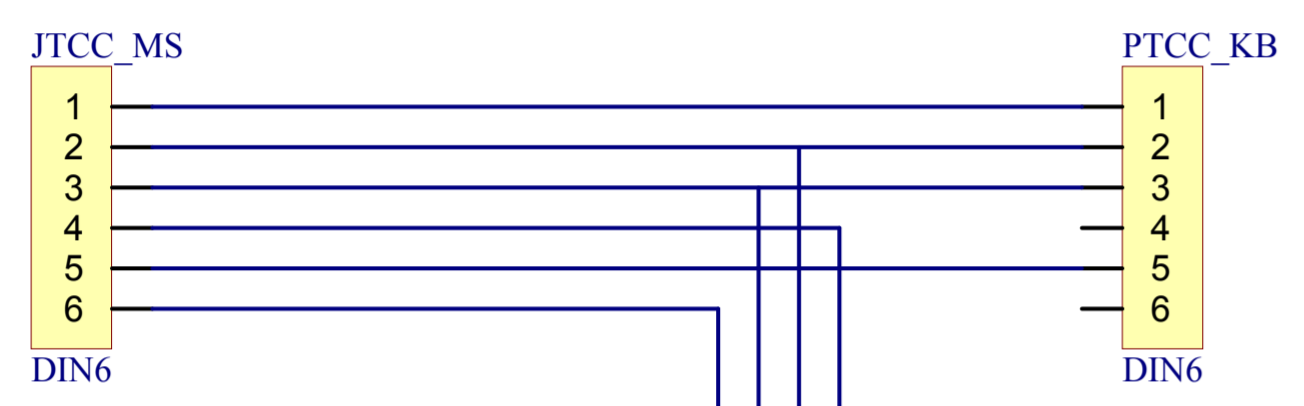
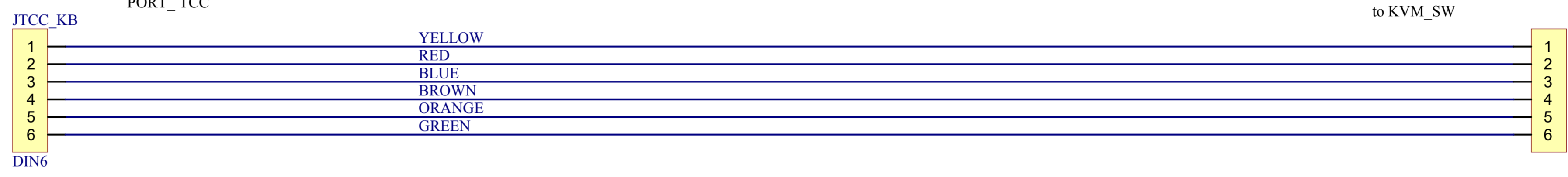
64

MOUSE EXTENSION CABLE

LABEL:
W053
MOUSE
PORT_TCC

LABEL:
W053

LABEL:
W053
to KVM_SW



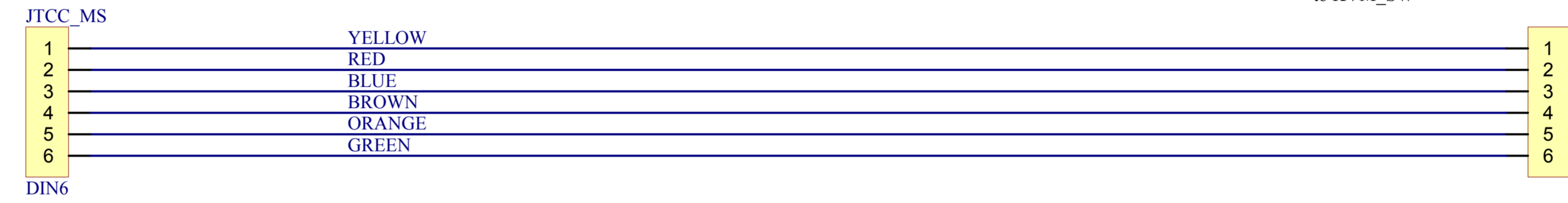
NOTE:
This "Off the Shelf" cable connects both keyboard and mouse to a single DIN connector on the computer.

KEYBOARD EXTENSION CABLE

LABEL:
W052
KYBD
PORT_TCC

LABEL:
W052

LABEL:
W052
to KVM_SW



LENGTH: 48"
WIRE TYPE: OTS DIN CABLES

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\kybd_mouseW052_W053.SCHDOC
PRINTED 12/8/2009 4:07:45 PM
TEMPLATE: Eost_tabloid_SUBS

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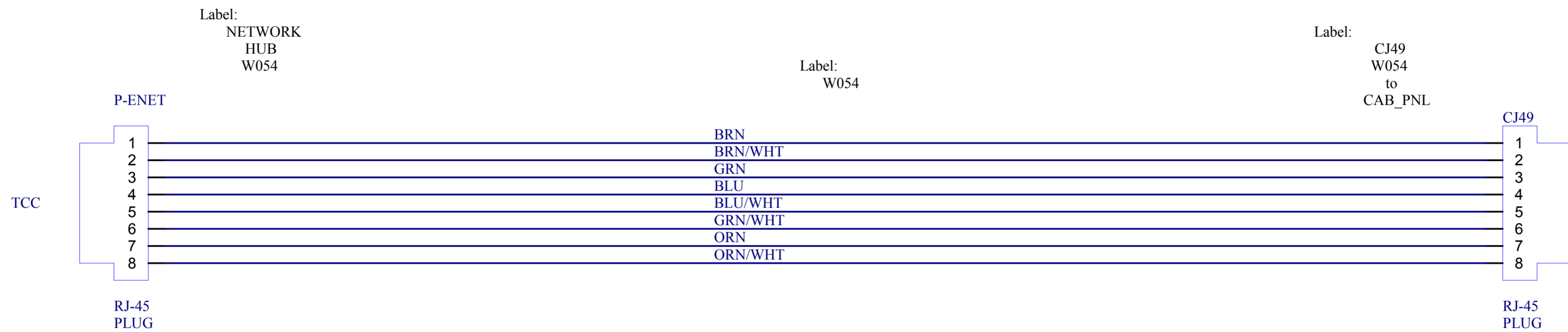
TITLE
APF Keyboard/Mouse Extension Cable

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 27 OF 64

ENET EXTENSION CABLE



WIRE TYPE: NETWORK INTERFACE CABLE
 LENGTH: 38"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\netwrkW054.SCHDOC
 PRINTED 12/8/2009 4:07:59 PM
 TEMPLATE: Eost_tabloid_SUBS

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TITLE

APF Network Extension Cable

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

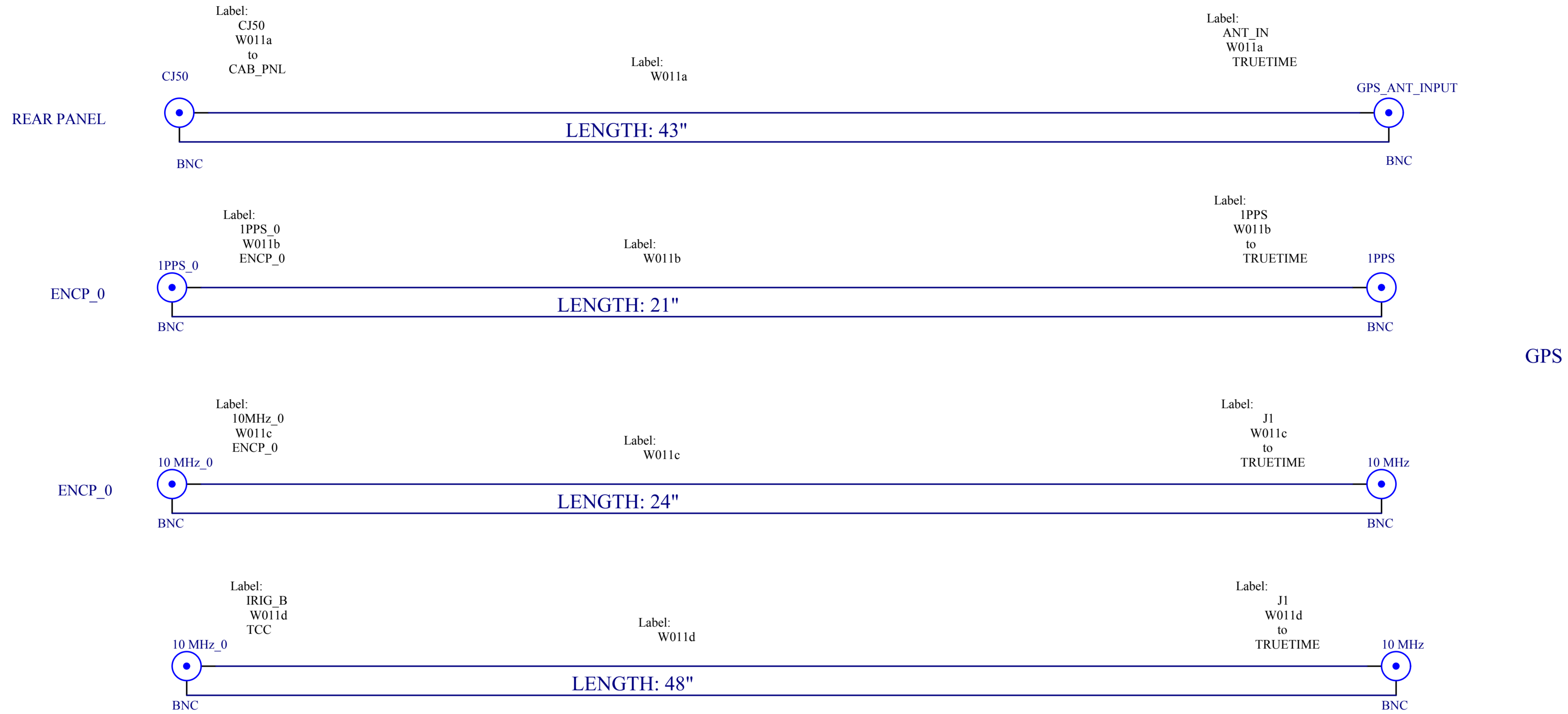
SCH-5376-4

SHEET 28

OF

64

TIME INPUT TO ENCP_0 and TRUETIME



GPS

WIRE TYPE: ALPHA 9174

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\timeW011.SCHDOC
PRINTED 12/8/2009 4:08:04 PM
TEMPLATE: Eost_tabloid_SUBS

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3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Observatory Timing Inputs

DOCUMENT NUMBER

SCH-5376-4

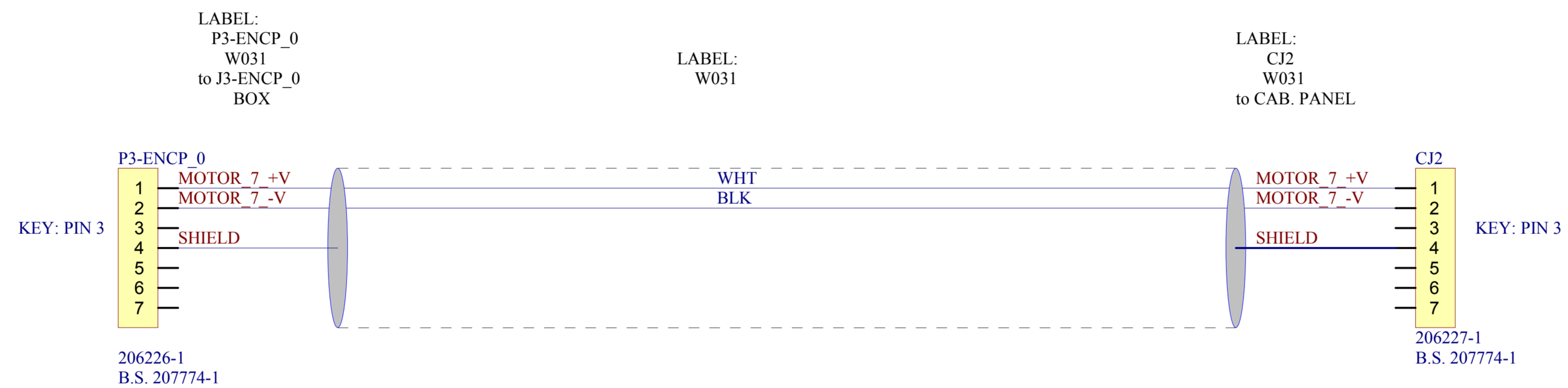
SIZE

A3

EastConfig SCH-5376-4

SHEET 29 OF 64

M3 ROTATOR MOTOR DRIVE



LENGTHS: 68"
WIRE TYPE: BELDEN 8718

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m3drvW031.SCHDOC
PRINTED 12/8/2009 4:07:54 PM
TEMPLATE: Eost_tabloid_SUBS

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TUCSON, ARIZONA 85706 USA

TITLE

APF M3 Rotator Drive

DOCUMENT NUMBER

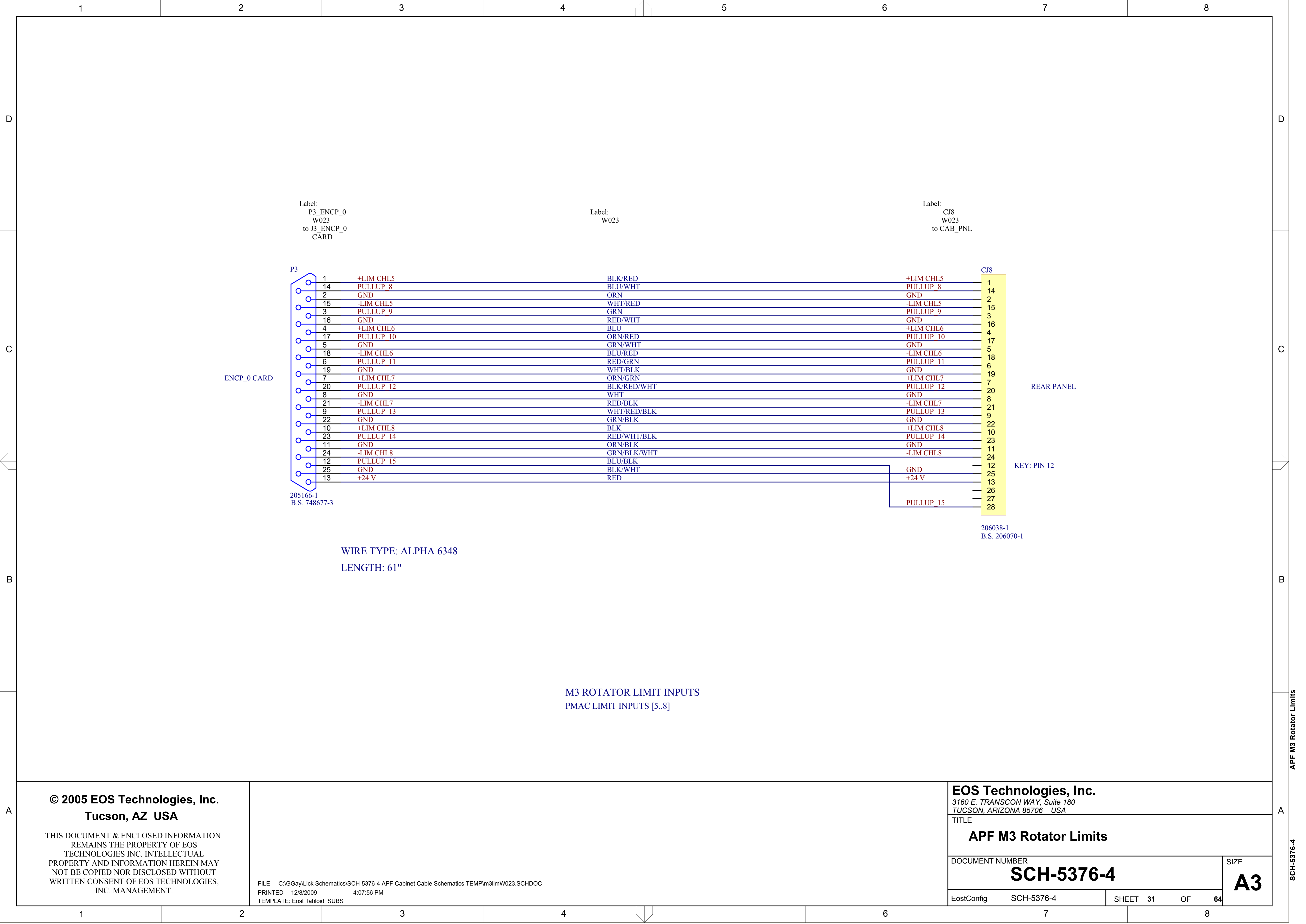
SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 30 OF 64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m3limW023.SCHDOC
PRINTED 12/8/2009 4:07:56 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

APF M3 Rotator Limits

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 31

OF 64

APF M3 Rotator Limits

SCH-5376-4

D

D

C

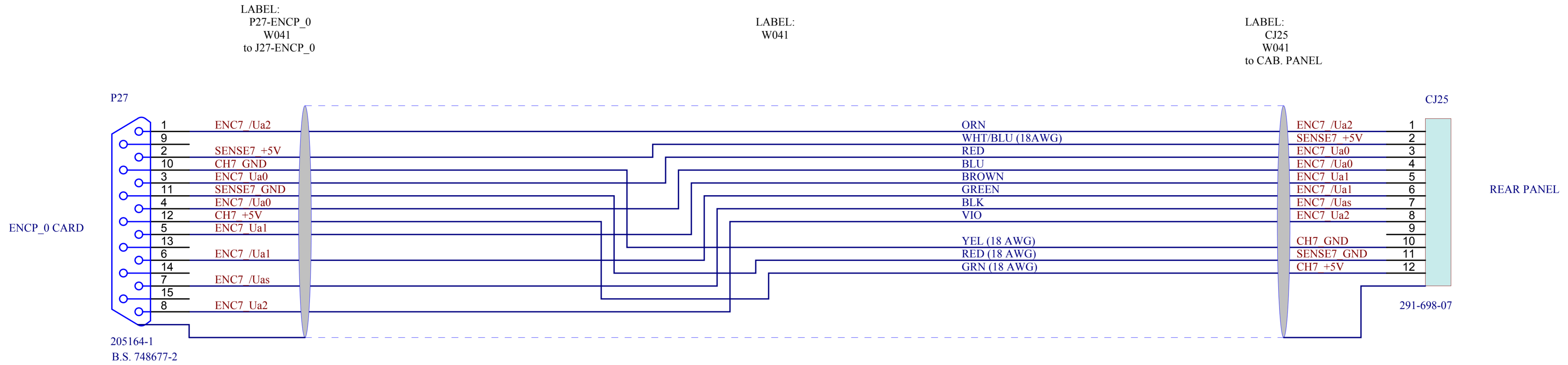
C

B

B

A

A



LENGTHS: 60 in.
 WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\M3encW041.SCHDOC
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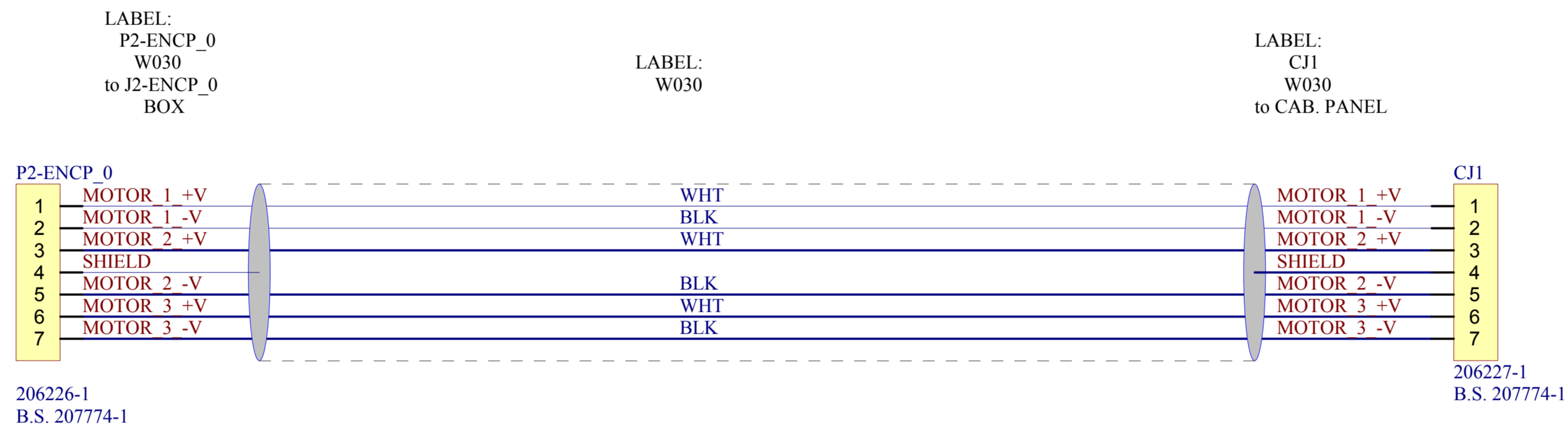
EOS Technologies, Inc.
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TITLE
APF M3 Rotator Encoder

DOCUMENT NUMBER
SCH-5376-4 SIZE
A3

EostConfig SCH-5376-4 SHEET 32 OF 64

APF M3 Rotator Encoder
 SCH-5376-4



SECONDARY MOTOR DRIVE

LENGTHS: 68"
 WIRE TYPE: PVAZBD6298

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2drvW030.SCHDOC
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 TEMPLATE: Eost_tabloid_SUBS

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TITLE

APF M2 Actuator Drives

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

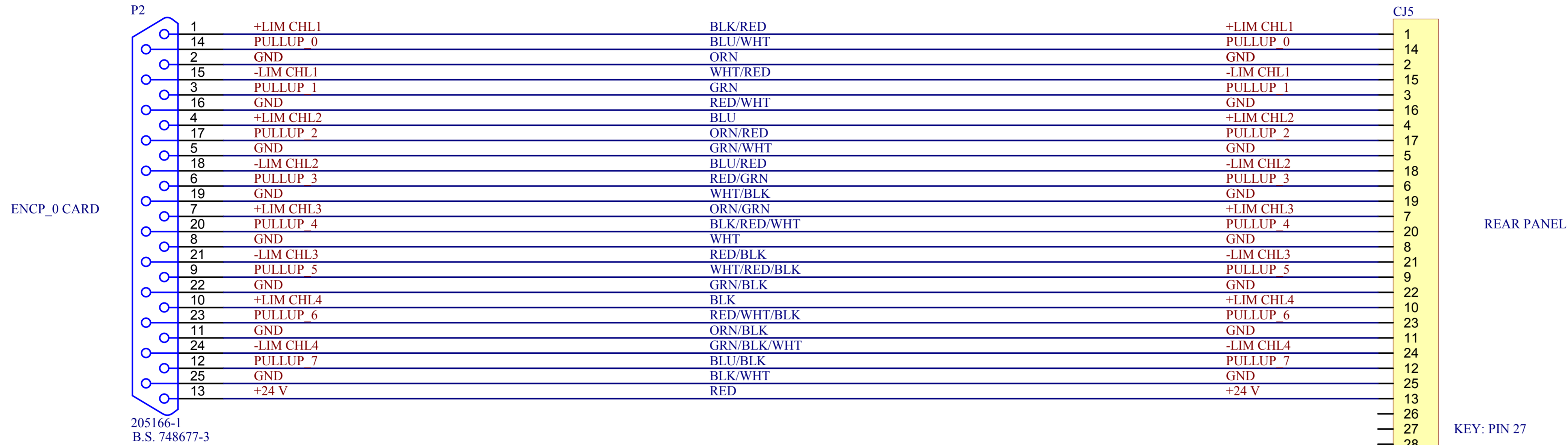
EostConfig SCH-5376-4

SHEET 33 OF 64

Label:
P2_ENCP_0
W020
to J2_ENCP_0
CARD

Label:
W020

Label:
CJ5
W020
to CAB_PNL



205166-1
B.S. 748677-3

206038-1
B.S. 206070-1

WIRE TYPE: ALPHA 6348
LENGTH: 66"

SECONDARY LIMIT INPUTS
PMAC LIMIT INPUTS [1..4]

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\M2 Limits_W020.SCHDOC
PRINTED 12/8/2009 4:07:46 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE

APF M2 End of Travel Limits

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 34

OF 64

D

D

C

C

B

B

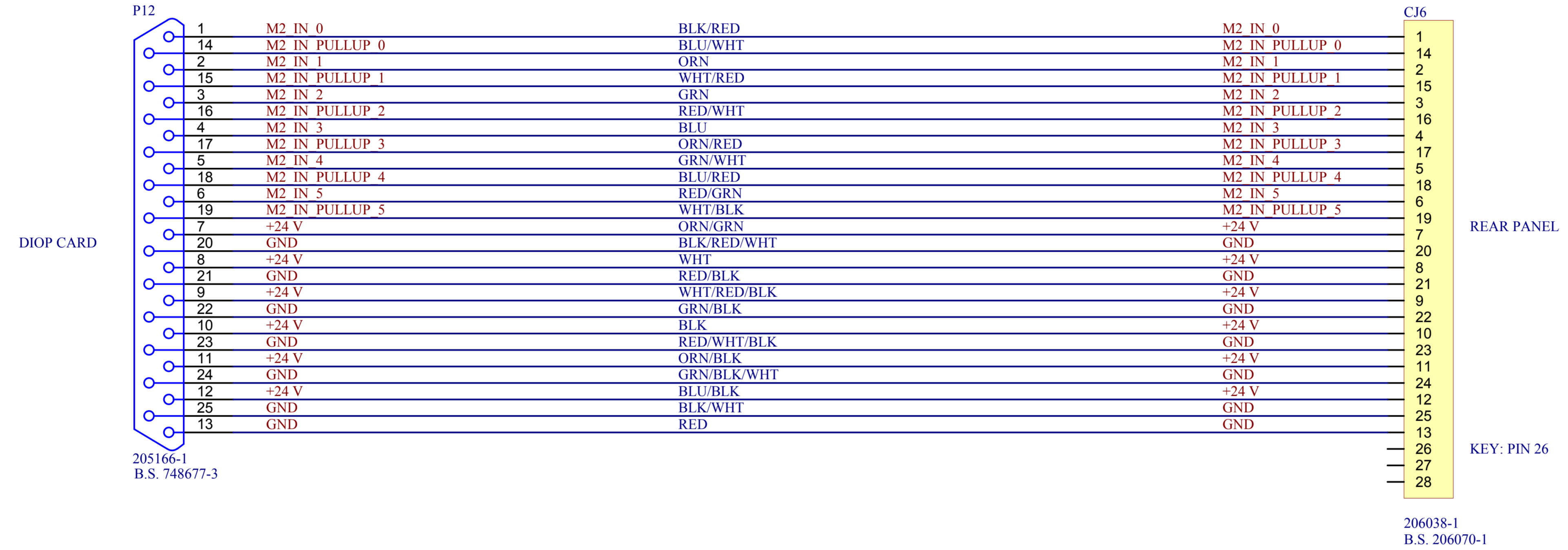
A

A

Label:
P12_DIOP
W021
to J12_DIOP
CARD

Label:
W021

Label:
CJ6
W021
to CAB_PNL



WIRE TYPE: ALPHA 6348
LENGTH: 48.5"

M2 FAILSAFE I/O

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2fsw021.SCHDOC
PRINTED 12/8/2009 4:07:48 PM
TEMPLATE: Eost_tabloid_SUBS

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TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Failsafe Limits

DOCUMENT NUMBER
SCH-5376-4

EastConfig SCH-5376-4 SHEET 35 OF 64

SIZE
A3

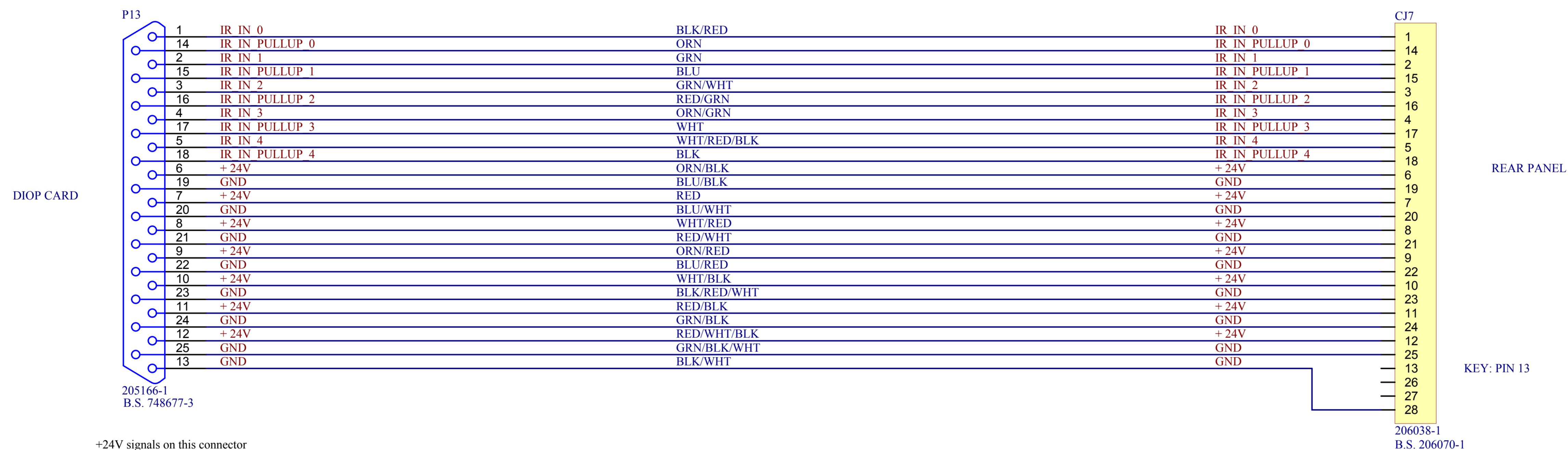
APF M2 Failsafe Limits SCH-5376-4

M2 TILT F.S.

Label:
P13_DIOP
W022
to J13_DIOP
CARD

Label:
W022

Label:
CJ7
W022
to CAB_PNL



+24V signals on this connector
can provide 1A total current

WIRE TYPE: ALPHA 6348
LENGTH: 72.75"

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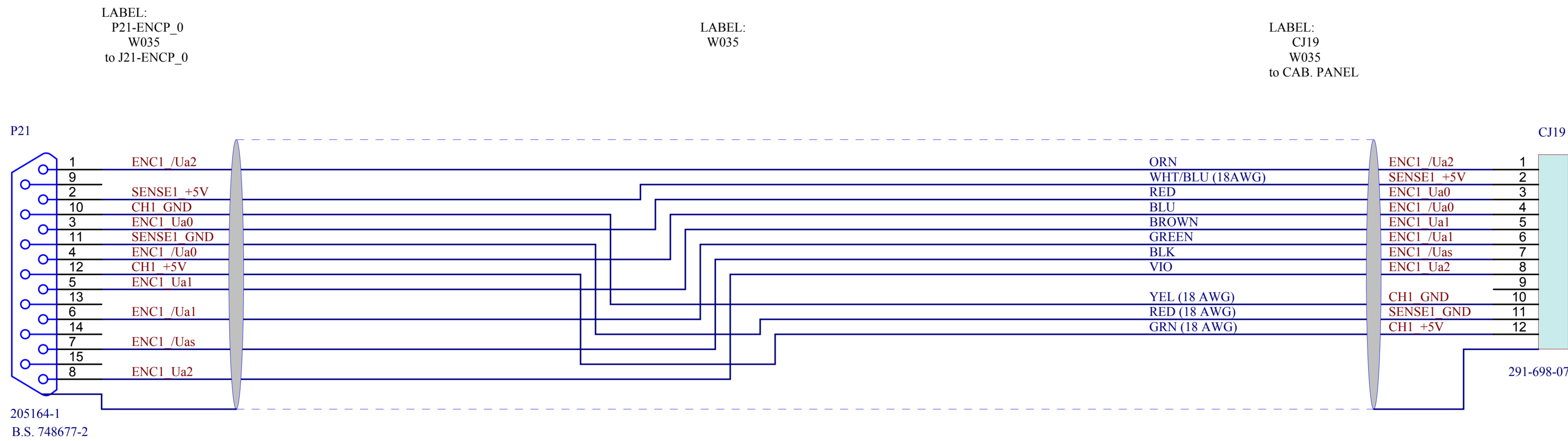
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2tilt\W022.SCHDOC
PRINTED 12/8/2009 4:07:54 PM
TEMPLATE: Eost_tabloid_SUBS

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TITLE
APF M2 Failsafe Tilt Limits

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 36 OF 64



LABEL:
P21-ENCP_0
W035
to J21-ENCP_0

LABEL:
W035

LABEL:
CJ19
W035
to CAB. PANEL

P21

CJ19

205164-1
B.S. 748677-2

291-698-07

THE SHIELD OF THIS CABLE WAS CONNECTED
TO THE METAL CASE OF THE CONNECTOR
DURING CABLE ASSEMBLY FABRICATION

LENGTHS: 60 in.
WIRE TYPE: PETSCHÉ OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2linenc\W035.SCHDOC
PRINTED 12/8/2009 4:07:49 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Linear Encoder A

DOCUMENT NUMBER
SCH-5376-4

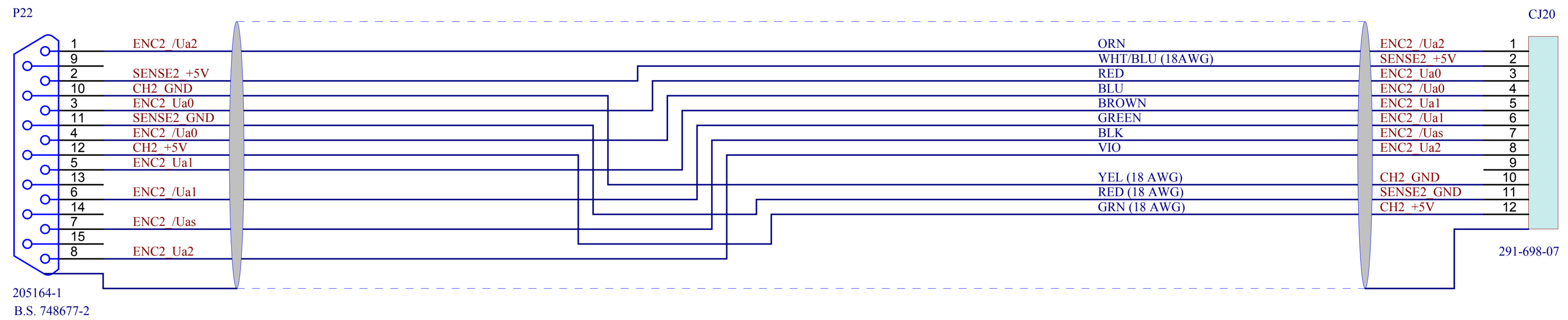
SIZE
A3

EastConfig SCH-5376-4 SHEET 37 OF 64

LABEL:
P22-ENCP_0
W036
to J22-ENCP_0

LABEL:
W036

LABEL:
CJ20
W036
to CAB. PANEL



THE SHIELD OF THIS CABLE WAS CONNECTED TO THE METAL CASE OF THE CONNECTOR DURING CABLE ASSEMBLY FABRICATION

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2linencW036.SCHDOC
PRINTED 12/8/2009 4:07:50 PM
TEMPLATE: Eost_tabloid_SUBS

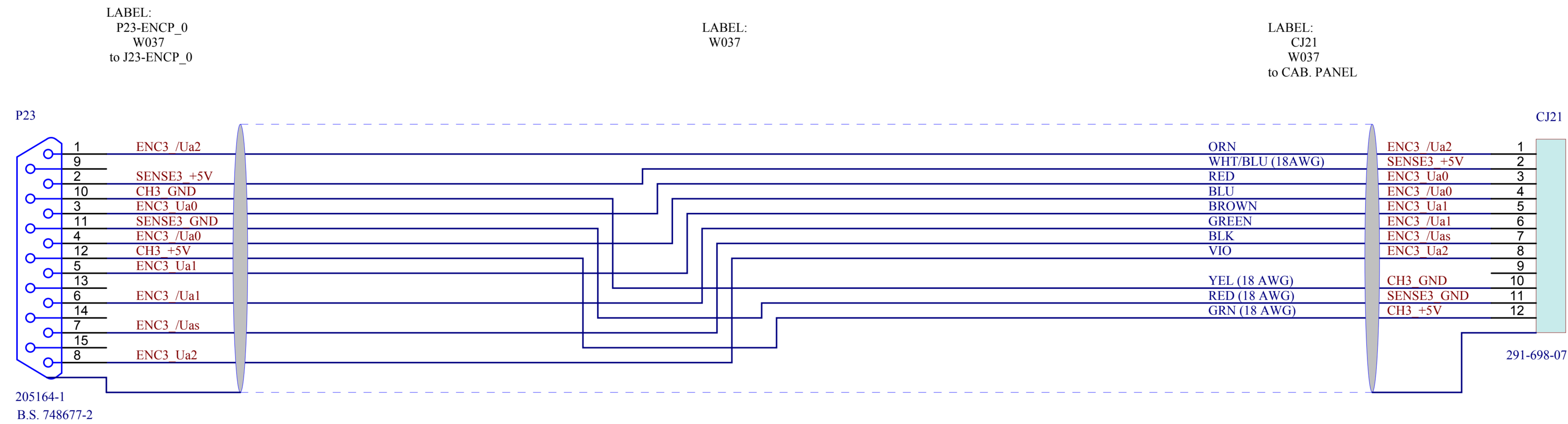
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Linear Encoder B

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 38 OF 64



LABEL:
P23-ENCP_0
W037
to J23-ENCP_0

LABEL:
W037

LABEL:
CJ21
W037
to CAB. PANEL

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2linenc\W037.SCHDOC
PRINTED 12/8/2009 4:07:50 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Linear Encoder C

DOCUMENT NUMBER	SCH-5376-4	SIZE	A3
EostConfig	SCH-5376-4	SHEET 39 OF 64	

D

D

C

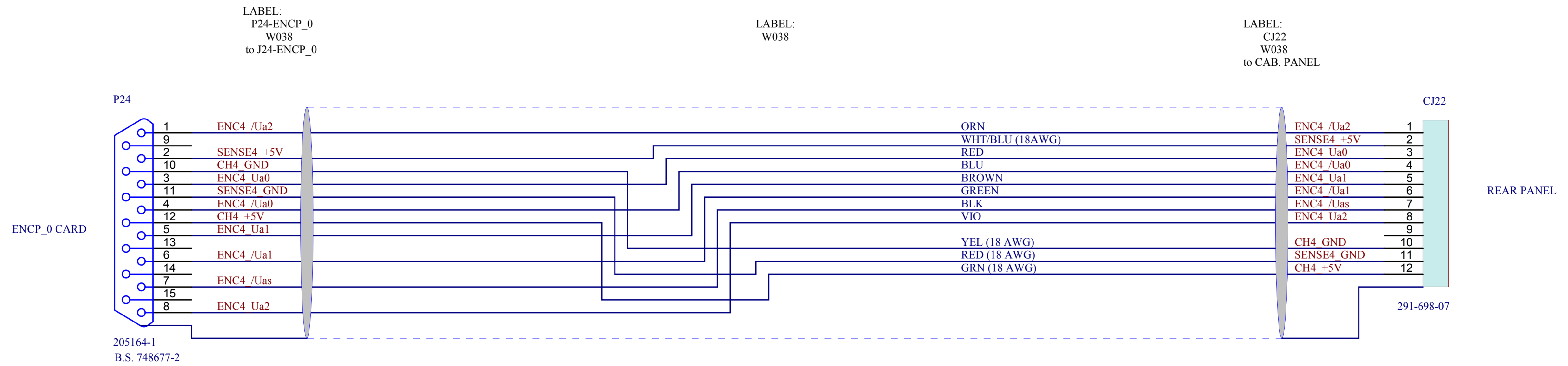
C

B

B

A

A



LENGTHS: 60 in.
 WIRE TYPE: PETSCHER OR HEIDENHAIN 244-957-01

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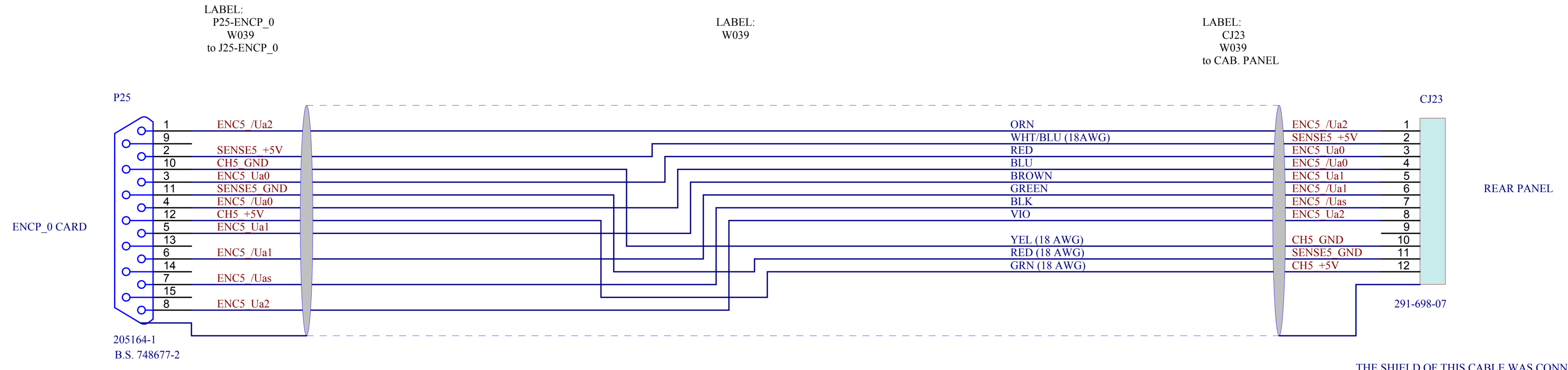
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2motencW038.SCHDOC
 PRINTED 12/8/2009 4:07:51 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
 3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE
APF M2 Motor Encoder A

DOCUMENT NUMBER	SCH-5376-4	SIZE	A3
EostConfig	SCH-5376-4	SHEET 40 OF 64	



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2motencW039.SCHDOC
PRINTED 12/8/2009 4:07:52 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

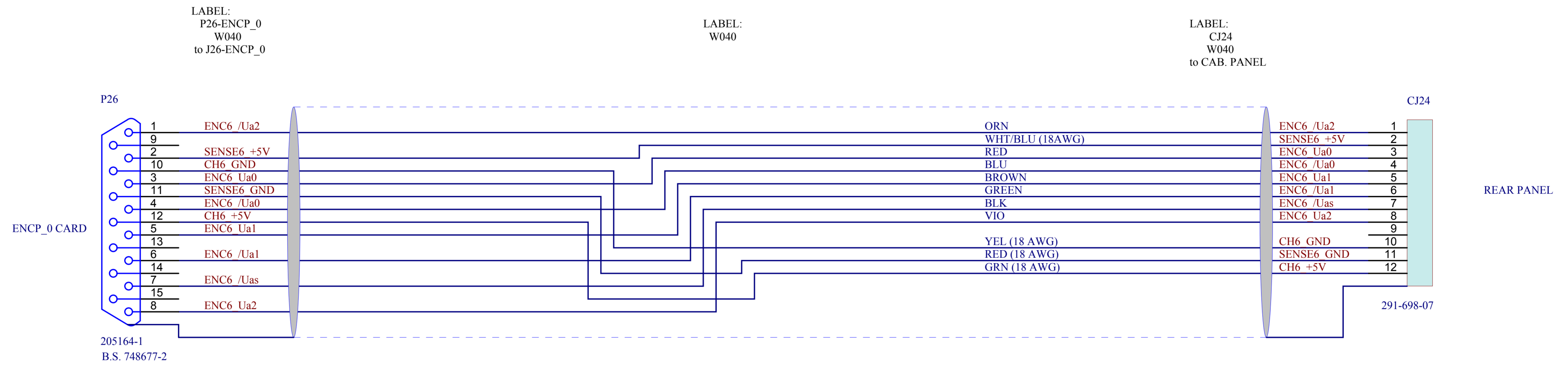
TITLE
APF M2 Motor Encoder B

DOCUMENT NUMBER
SCH-5376-4

EastConfig SCH-5376-4 SHEET 41 OF 64

SIZE
A3

APF M2 Motor Encoder B
SCH-5376-4



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\m2motencW040.SCHDOC
PRINTED 12/8/2009 4:07:53 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF M2 Motor Encoder C

DOCUMENT NUMBER

SCH-5376-4

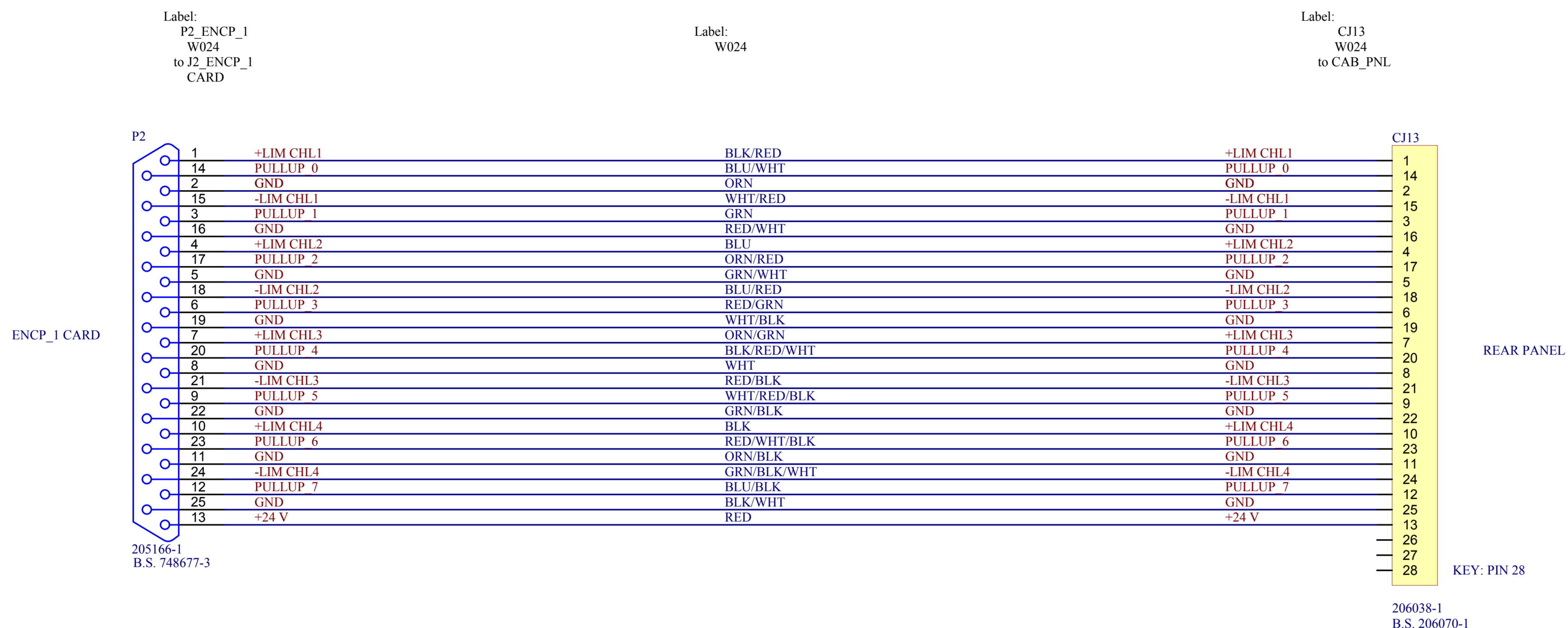
SIZE

A3

EastConfig

SCH-5376-4

SHEET 42 OF 64



WIRE TYPE: ALPHA 6348
LENGTH: 59"

AZIMUTH LIMIT INPUTS (Includes Failsafes)
ACC24 LIMIT INPUTS [1..4]

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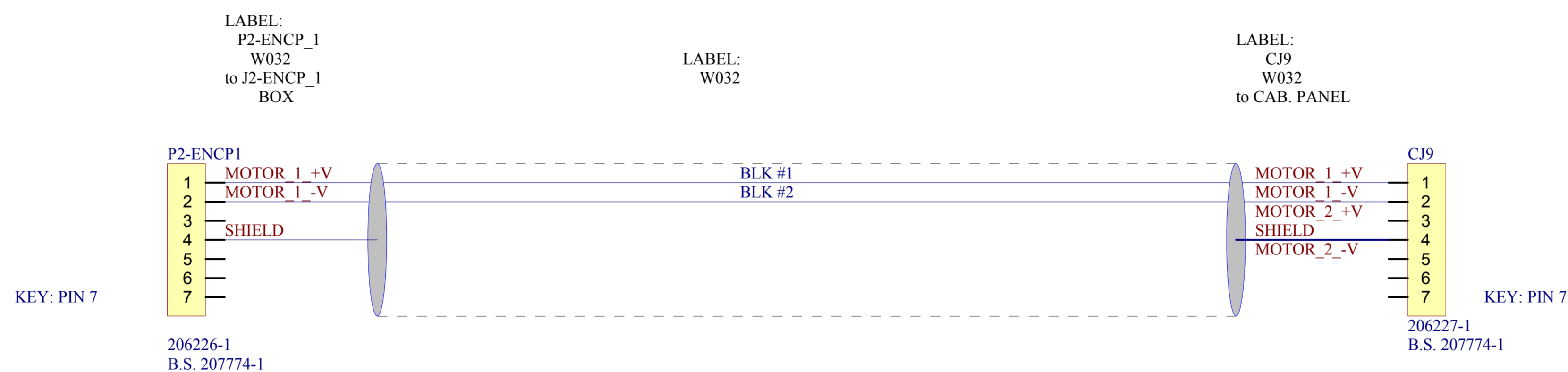
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\az_limits_W024.SCHDOC
PRINTED 12/8/2009 4:07:20 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Azimuth Limit Inputs

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 43 OF 64



AZIMUTH MOTOR DRIVE

LENGTHS: 65.5"
WIRE TYPE: Alpha 87703CY

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlazdrvW032.SCHDOC
PRINTED 12/8/2009 4:07:24 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
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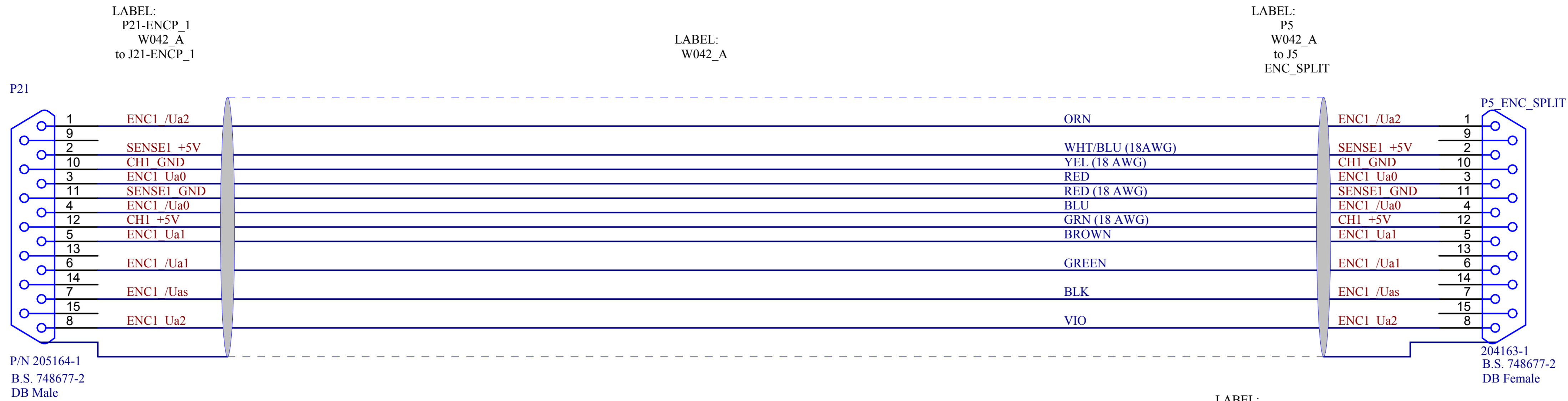
TITLE
APF Azimuth Motor Drive

DOCUMENT NUMBER
SCH-5376-4

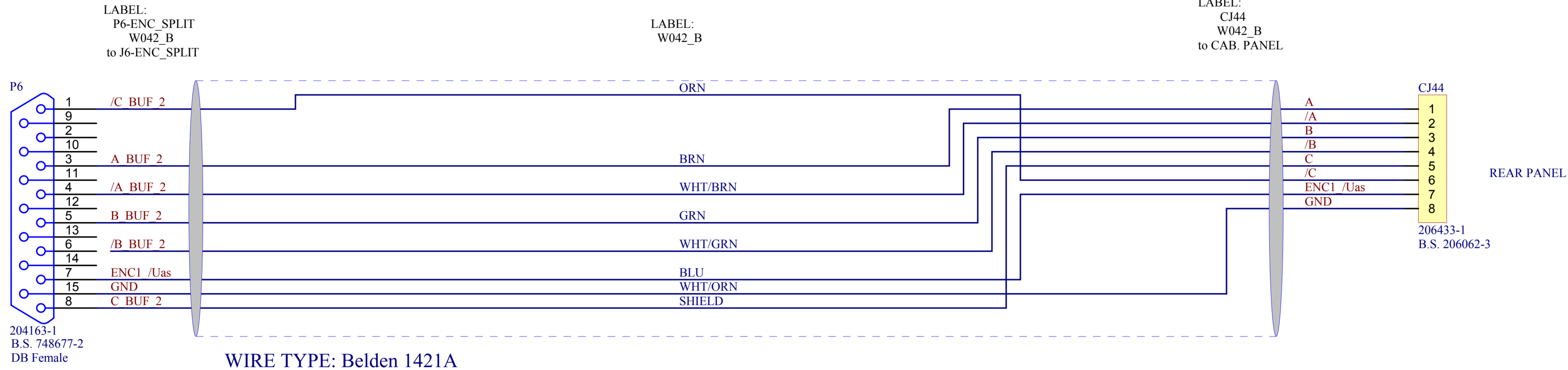
SIZE
A3

EostConfig SCH-5376-4 SHEET 44 OF 64

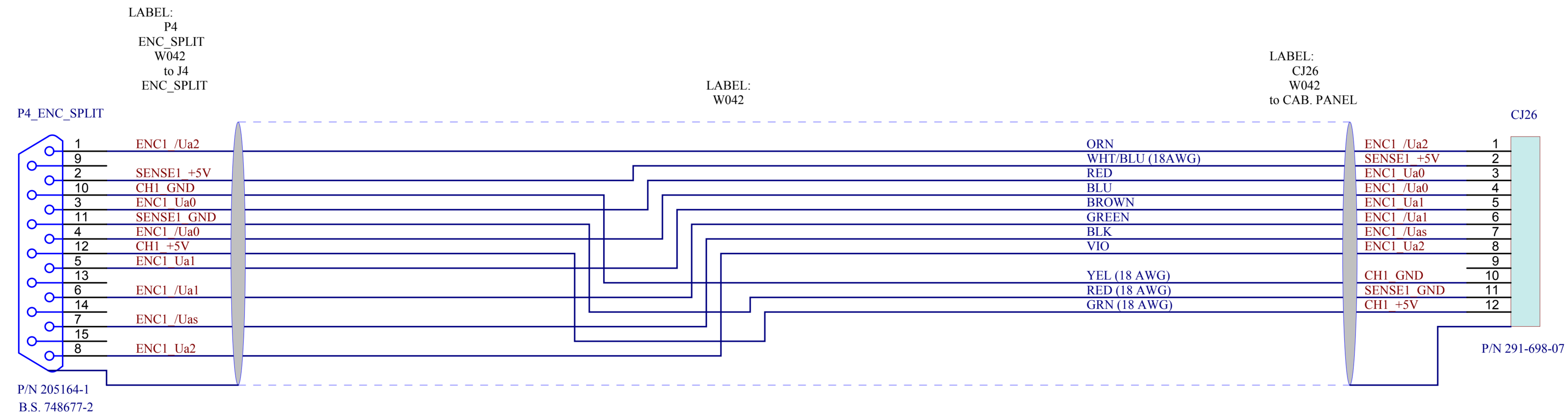
LENGTH: 30 in.



LENGTH: 60 in.



LENGTH: 60 in.



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\zaenc\W042.SCHDOC
PRINTED 12/8/2009 4:07:20 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Azimuth Encoder A

DOCUMENT NUMBER

SCH-5376-4

SIZE

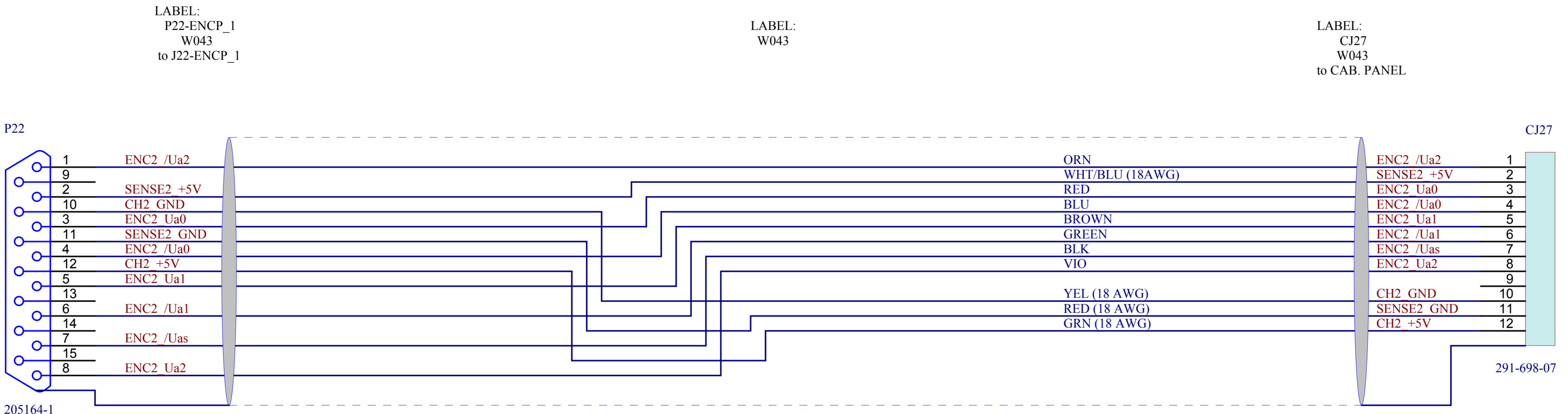
A3

EastConfig

SCH-5376-4

SHEET 45

OF 64



205164-1
B.S. 748677-2

LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\azbenc\W043.SCHDOC
PRINTED 12/8/2009 4:07:21 PM
TEMPLATE: Eost_tabloid_SUBS

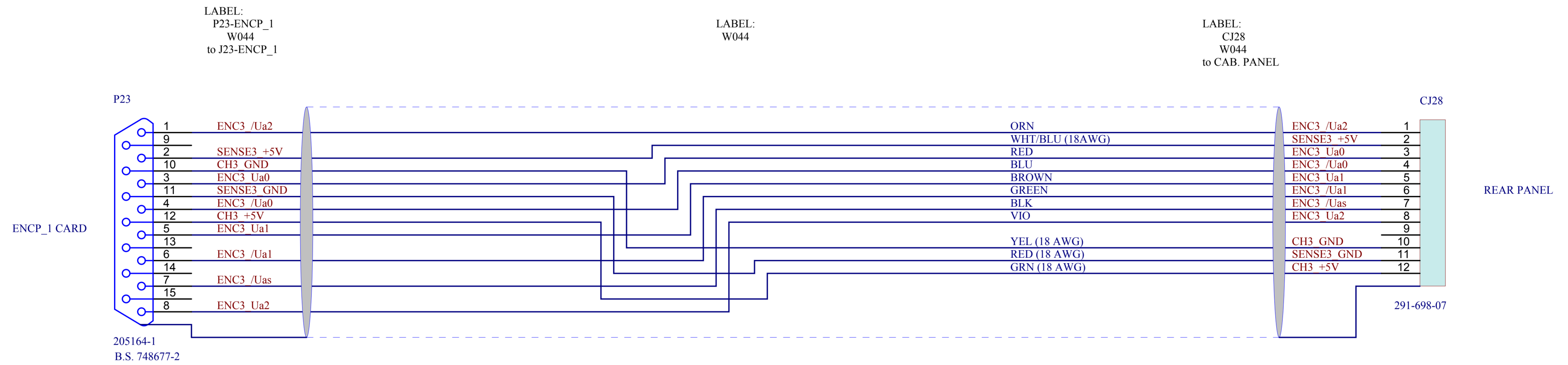
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Azimuth Encoder B

DOCUMENT NUMBER
SCH-5376-4

EastConfig SCH-5376-4 SHEET 46 OF 64

SIZE
A3



LENGTHS: 60 in.
 WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\azencW044.SCHDOC
 PRINTED 12/8/2009 4:07:22 PM
 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
 TUCSON, ARIZONA 85706 USA

TITLE

APF Azimuth Encoder C

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

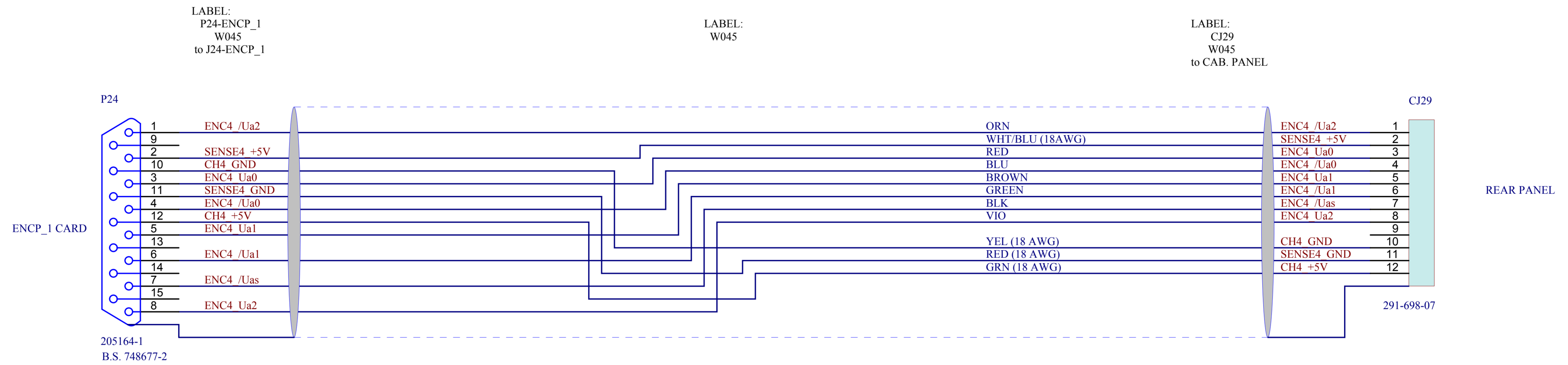
EastConfig

SCH-5376-4

SHEET 47

OF

64



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\azdenc\W045.SCHDOC
PRINTED 12/8/2009 4:07:23 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Azimuth Encoder D

DOCUMENT NUMBER

SCH-5376-4

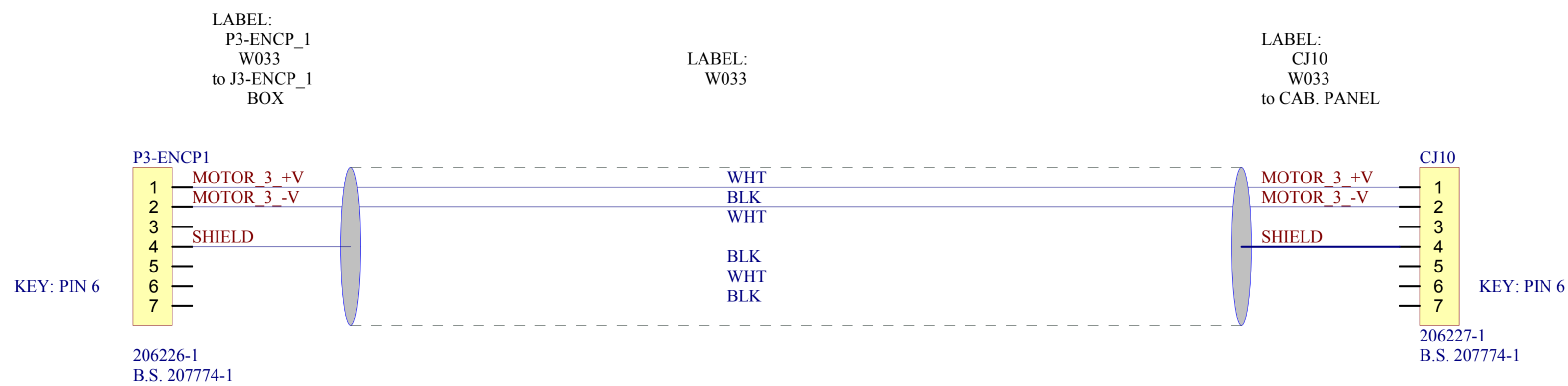
SIZE

A3

EastConfig

SCH-5376-4

SHEET 48 OF 64



ELEVATION MOTOR DRIVE

LENGTHS: 64"
WIRE TYPE: Alpha 87703CY

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\eldrvW033.SCHDOC
PRINTED 12/8/2009 4:07:32 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Elevation Motor Drive

DOCUMENT NUMBER
SCH-5376-4

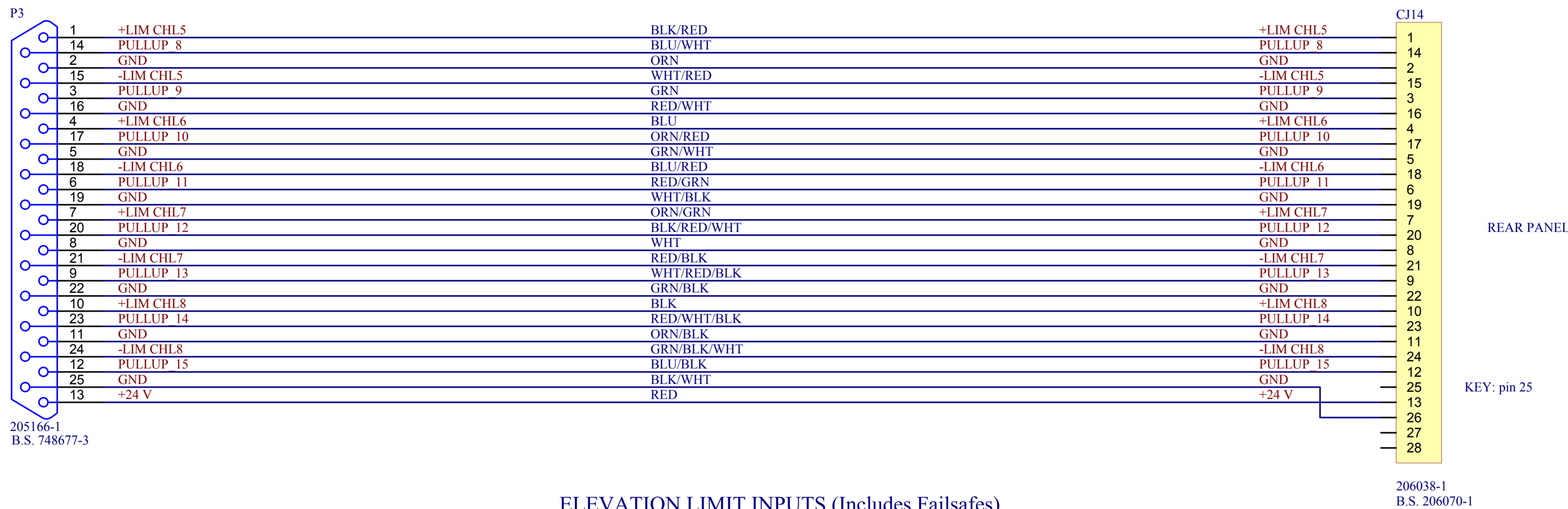
SIZE
A3

EostConfig SCH-5376-4 SHEET 49 OF 64

Label:
P3_ENCP_1
W025
to J3_ENCP_1

Label:
W025

Label:
CJ14
W025
to CAB_PNL



WIRE TYPE: ALPHA 6348
LENGTH: 59.5"

ELEVATION LIMIT INPUTS (Includes Failsafes)
ACC24 LIMIT INPUTS [5..8]

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlimits_W025.SCHDOC
PRINTED 12/8/2009 4:07:28 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Elevation Limit Inputs

DOCUMENT NUMBER

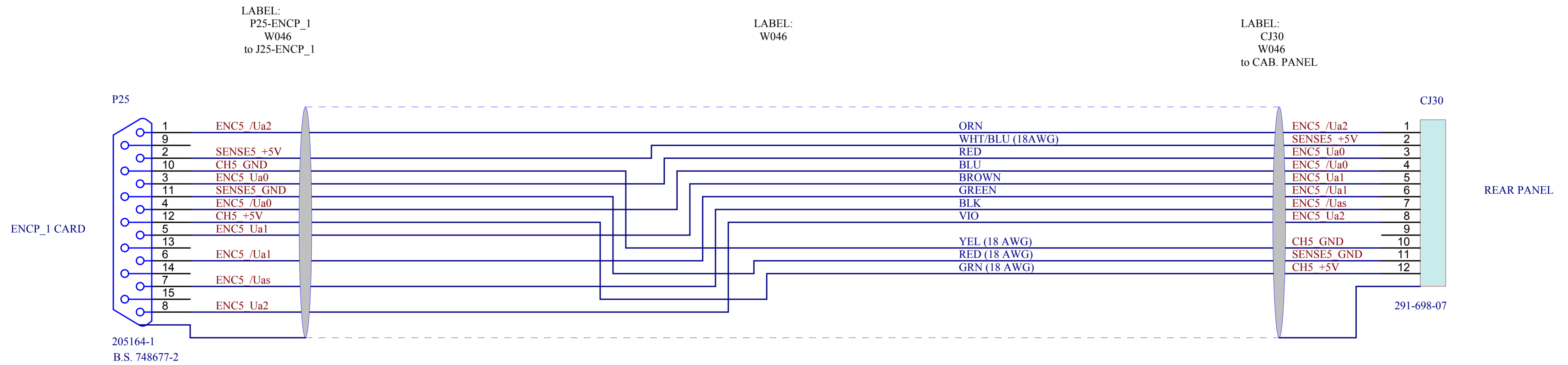
SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 50 OF 64



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlalaencW046.SCHDOC
PRINTED 12/8/2009 4:07:29 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Elevation Encoder A

DOCUMENT NUMBER

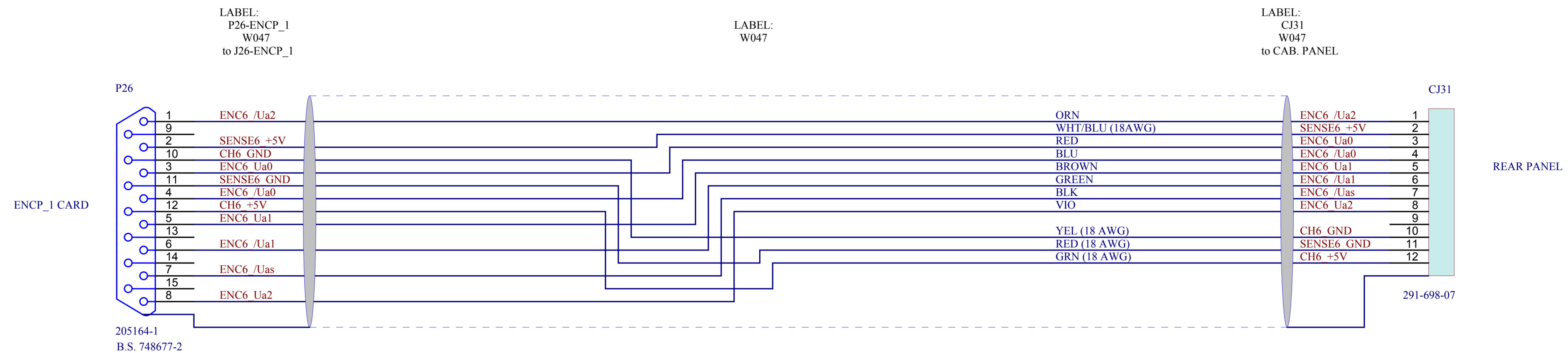
SCH-5376-4

SIZE

A3

EostConfig SCH-5376-4

SHEET 51 OF 64



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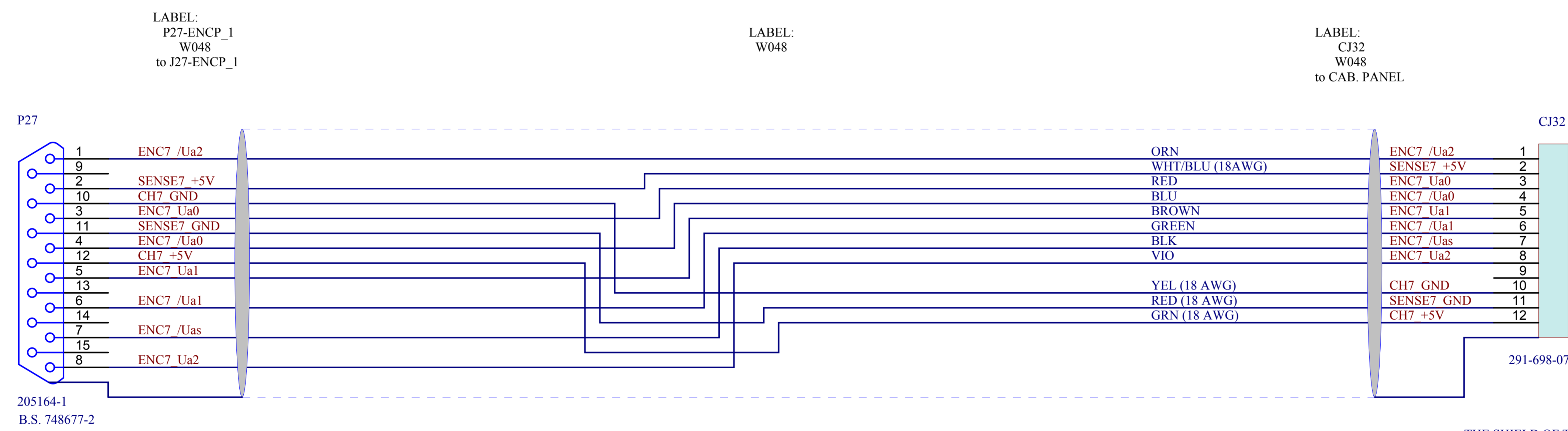
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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPlabencW047.SCHDOC
PRINTED 12/8/2009 4:07:29 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Elevation Encoder B

DOCUMENT NUMBER	SIZE
SCH-5376-4	A3
EastConfig SCH-5376-4	SHEET 52 OF 64



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\elcencW048.SCHDOC
PRINTED 12/8/2009 4:07:30 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.
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TUCSON, ARIZONA 85706 USA

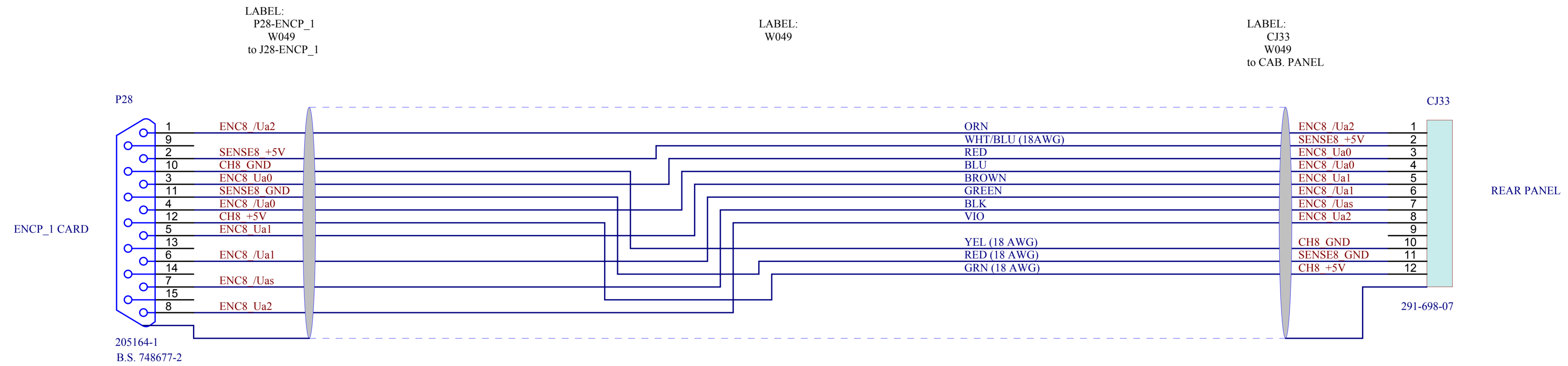
TITLE
APF Elevation Encoder C

DOCUMENT NUMBER
SCH-5376-4

EastConfig SCH-5376-4 SHEET 53 OF 64

SIZE
A3

APF Elevation Encoder C
SCH-5376-4



LENGTHS: 60 in.
WIRE TYPE: PETSCHKE OR HEIDENHAIN 244-957-01

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\eldencW049.SCHDOC
PRINTED 12/8/2009 4:07:31 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Elevation Encoder D

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

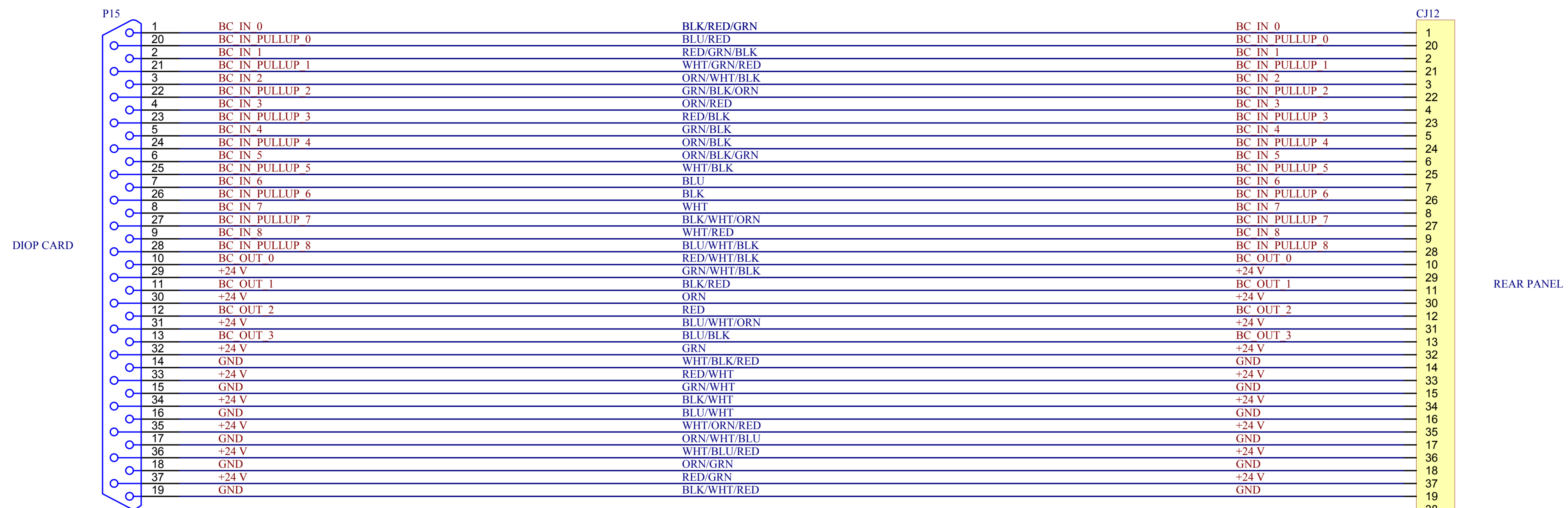
EastConfig SCH-5376-4

SHEET 54 OF 64

Label:
P15_DIOP
W056
to J15_DIOP
CARD

Label:
W056

Label:
CJ12
W056
to CAB_PNL



205168-1
B.S. 748677-4

206438-1
B.S. 207774-1

WIRE TYPE: ALPHA 6349
LENGTH: 58"

MIRROR COVER CONTROL I/O

KEY: PIN 56

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\APFmc_interfaceW056.SCHDOC
PRINTED 12/8/2009 4:07:15 PM
TEMPLATE: Eost_tabloid_SUBS

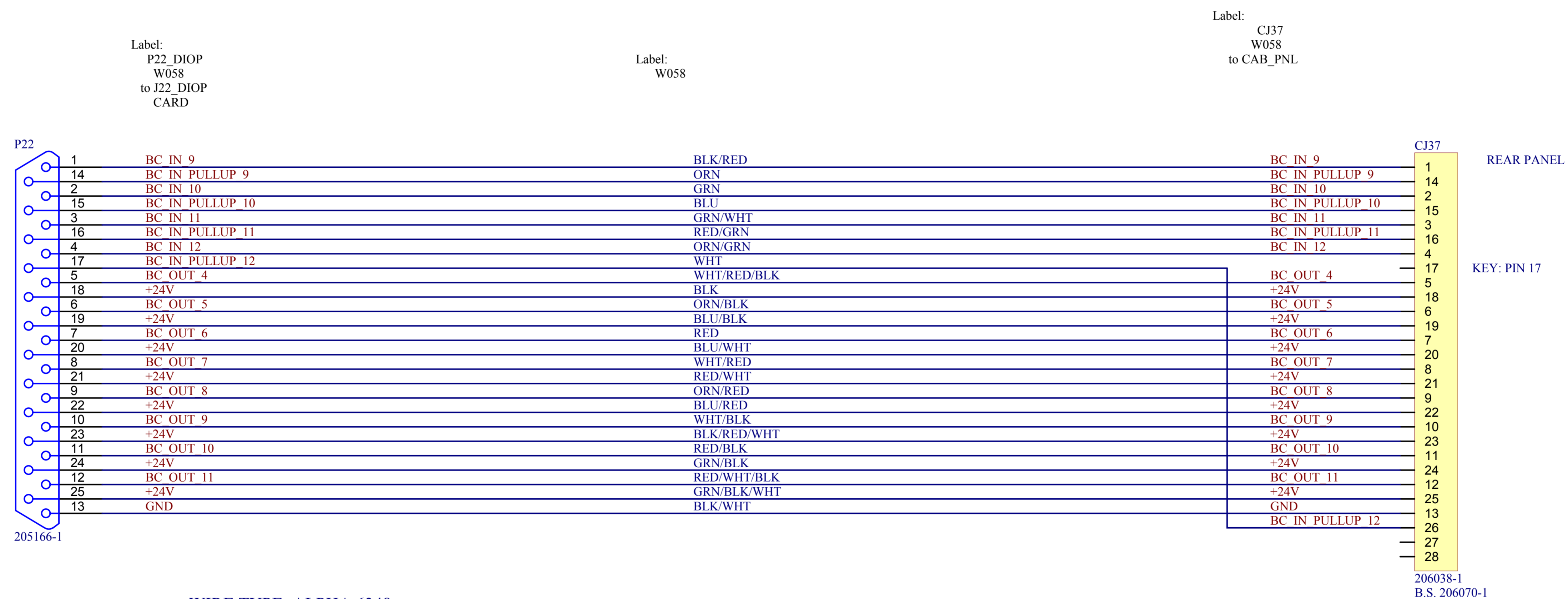
EOS Technologies, Inc.
3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE
APF Mirror Cover Control Interface

DOCUMENT NUMBER
SCH-5376-4

SIZE
A3

EastConfig SCH-5376-4 SHEET 55 OF 64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\APFmc_paddleW058.SCHDOC
PRINTED 12/8/2009 4:07:16 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Mirror Cover Hand Paddle Cable

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

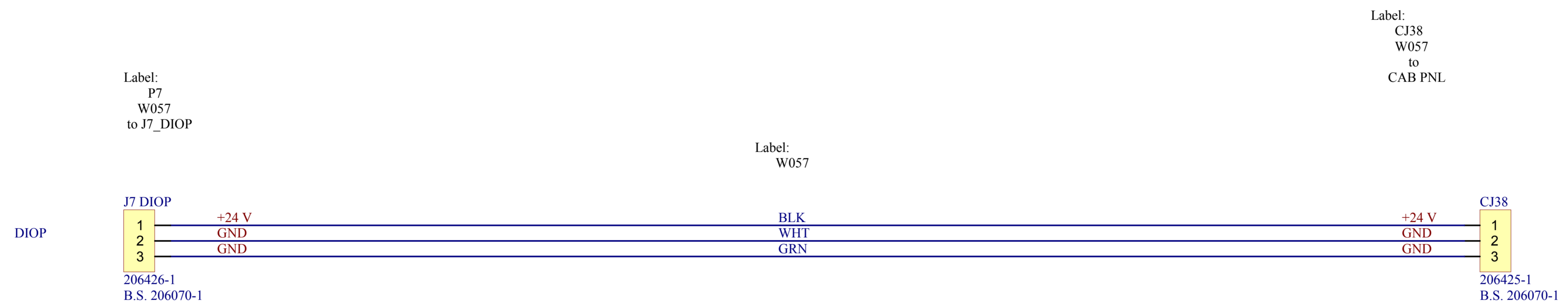
SCH-5376-4

SHEET 56

OF

64

M1 MIRROR COVER POWER



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\APFmc_powerW057.SCHDOC
PRINTED 12/8/2009 4:07:17 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Mirror Cover Power

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

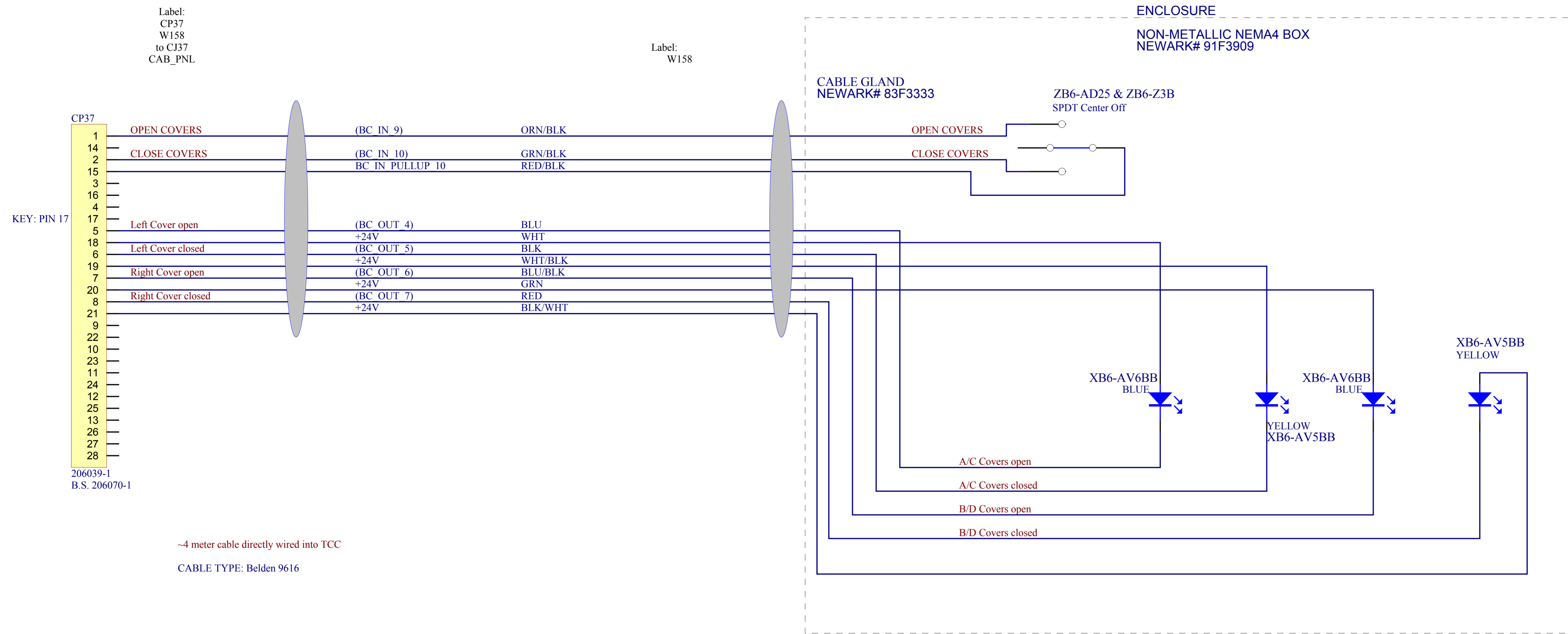
EastConfig

SCH-5376-4

SHEET 57

OF

64



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\APFMirror_cover_paddle.SCHDOC
PRINTED 12/8/2009 4:07:18 PM
TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
TUCSON, ARIZONA 85706 USA

TITLE

APF Mirror Cover Hand Paddle Assembly

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

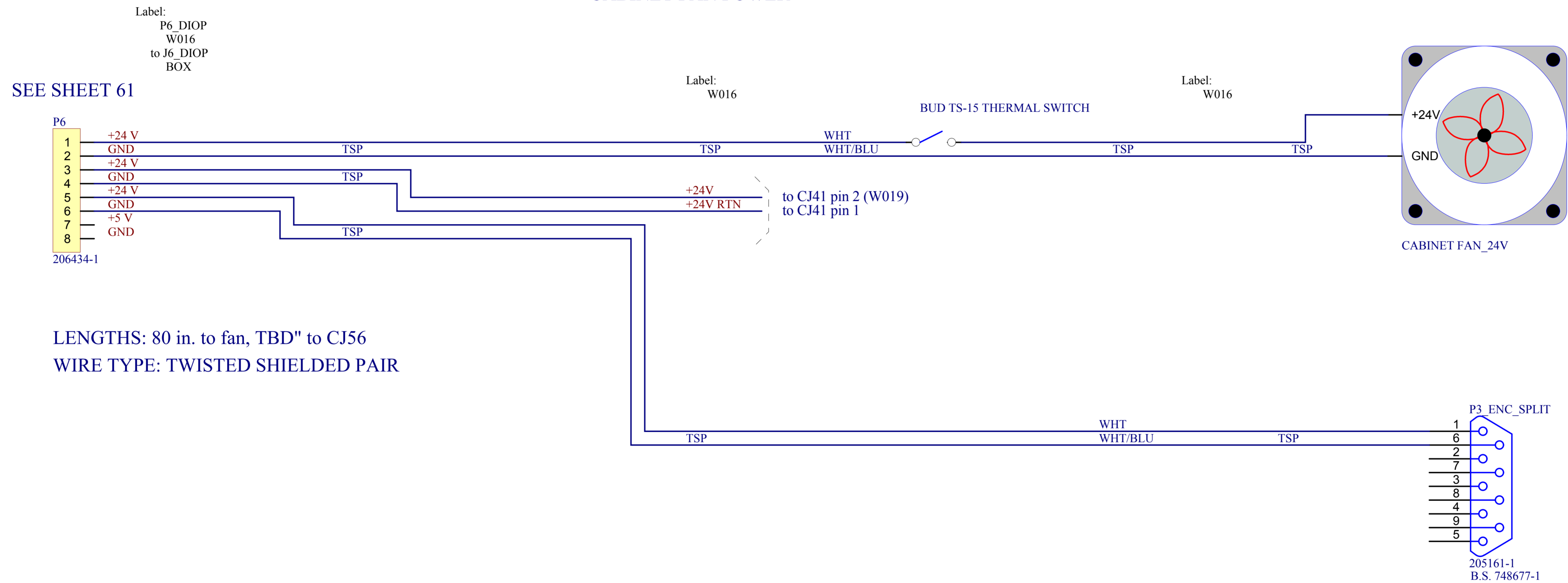
EastConfig

SCH-5376-4

SHEET 58

OF 64

CABINET FAN POWER



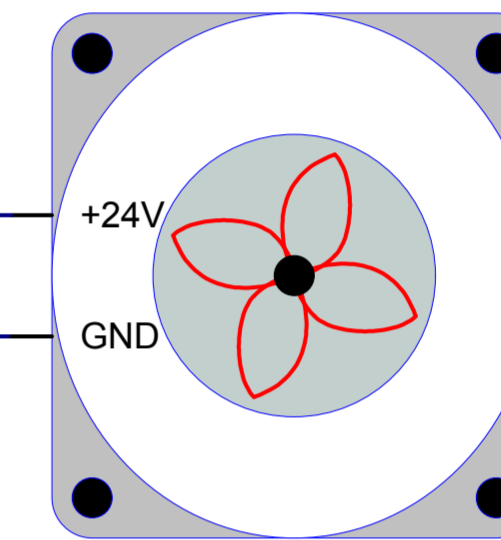
SEE SHEET 61

Label:
P6_DIOP
W016
to J6_DIOP
BOX

Label:
W016

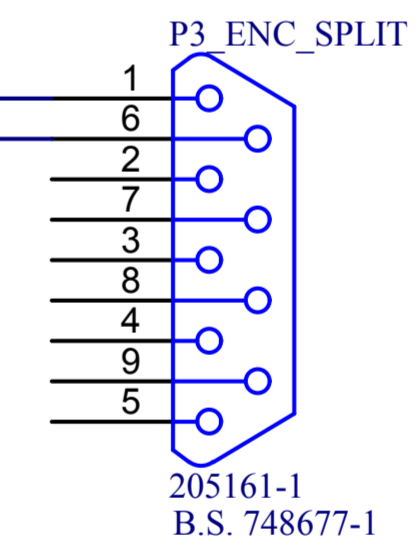
BUD TS-15 THERMAL SWITCH

Label:
W016



CABINET FAN_24V

LENGTHS: 80 in. to fan, TBD" to CJ56
WIRE TYPE: TWISTED SHIELDED PAIR



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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMP\cabfanW016.SCHDOC
PRINTED 12/8/2009 4:07:24 PM
TEMPLATE: Eost_tabloid_SUBS

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TUCSON, ARIZONA 85706 USA

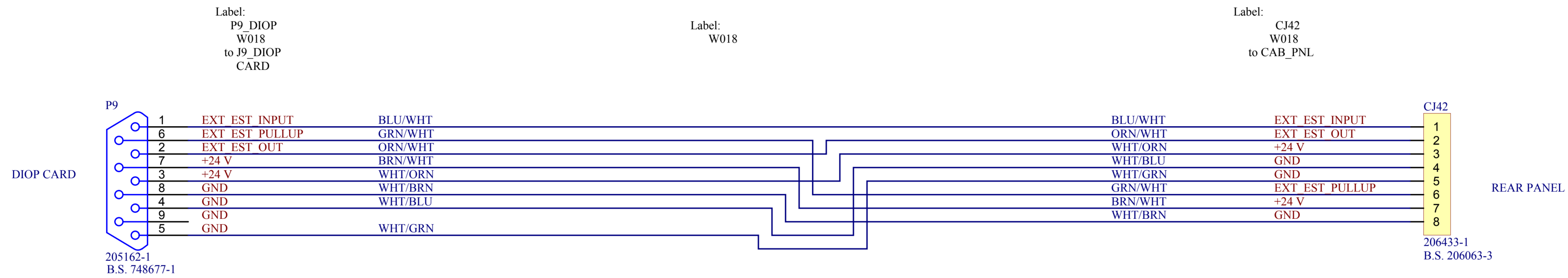
TITLE
APF TCC Cooling Fan

DOCUMENT NUMBER
SCH-5376-4

EostConfig SCH-5376-4 SHEET 59 OF 64

SIZE
A3

EXTERNAL ESTOP



WIRE TYPE: BELDEN 1421A
 LENGTH: 60"

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FILE C:\GGay\Lick Schematics\SCH-5376-4 APF Cabinet Cable Schematics TEMPl'estopW018.SCHDOC
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 TEMPLATE: Eost_tabloid_SUBS

EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
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TITLE

APF TCC Emergency Stop Interface

DOCUMENT NUMBER

SCH-5376-4

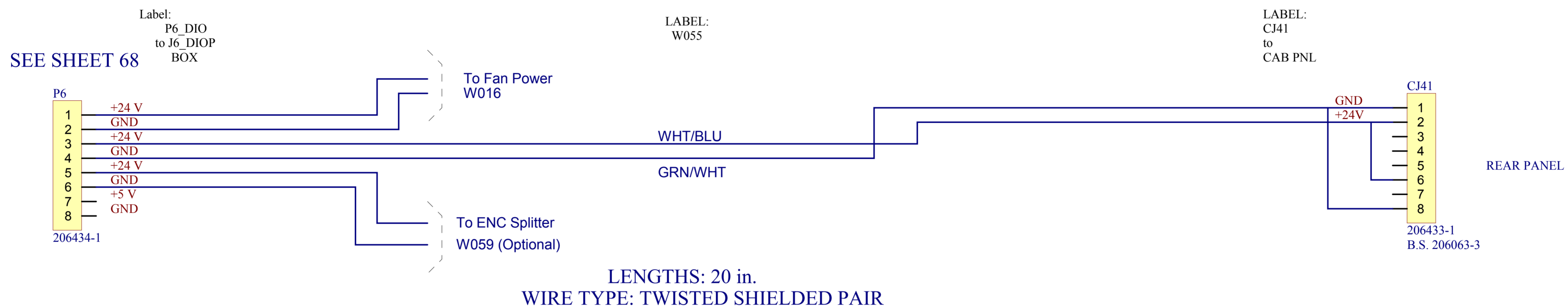
SIZE

A3

EostConfig SCH-5376-4

SHEET 60 OF 64

THERMAL MONITOR POWER CABLE



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EOS Technologies, Inc.

3160 E. TRANSCON WAY, Suite 180
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CHANGE

APF Temperature Sensor Power Cable

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EostConfig

SCH-5376-4

SHEET 61

OF

64

1 2 3 4 5 6 7 8

D

D

C

C

B

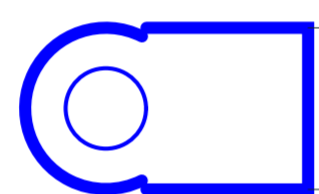
B

A

A

TCC GND. BAR
GROUNDING BOLT

TCC BACK PANEL
GROUNDING BOLT



RINGTERM_LG (NEWARK P/N 84F292)
LABEL:
W017
TELESCOPE
GND
TCC GND BAR

LABEL:
W017

RINGTERM_LG (NEWARK P/N 84F292)
LABEL:
W017
TELESCOPE
GND
TCC PNL BOLT

WIRE TYPE: CAROLPRENE 2GA. WELDING CABLE
LENGTH: 30 In.

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TEMPLATE: Eost_tabloid_SUBS

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TITLE

APF Cabinet Grounding Connection

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig

SCH-5376-4

SHEET 62

OF

64

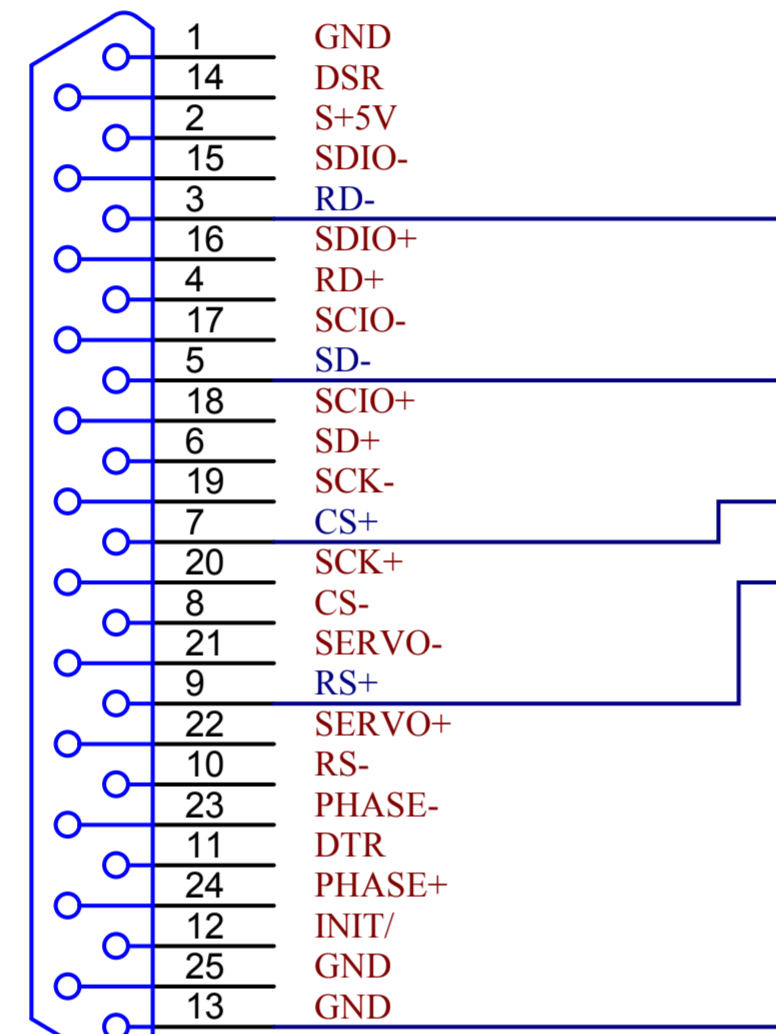
1 2 3 4 5 6 7 8

SCH-5376-4 APF Cabinet Grounding Connection

PMAC RS232 INTERFACE

LABEL:
P_SER_1
W059
to TCC_PMAC
PNL

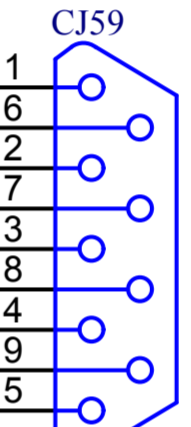
TCC PMAC_J4 Interface



205166-1
B. S. 748677-3

LABEL:
W059

LABEL:
CJ59
W059
to
CAB PNL



205161-2
B. S. 748677-1

BLU/WHT
ORG/WHT
WHT/BLU
WHT/ORG

GRN/WHT

SD-
CS+
RD-
RS+
GND

LENGTHS: 32"
WIRE TYPE: Belden 1421A

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TITLE

PMAC RS232 INTERFACE CABLE

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 63 OF 64

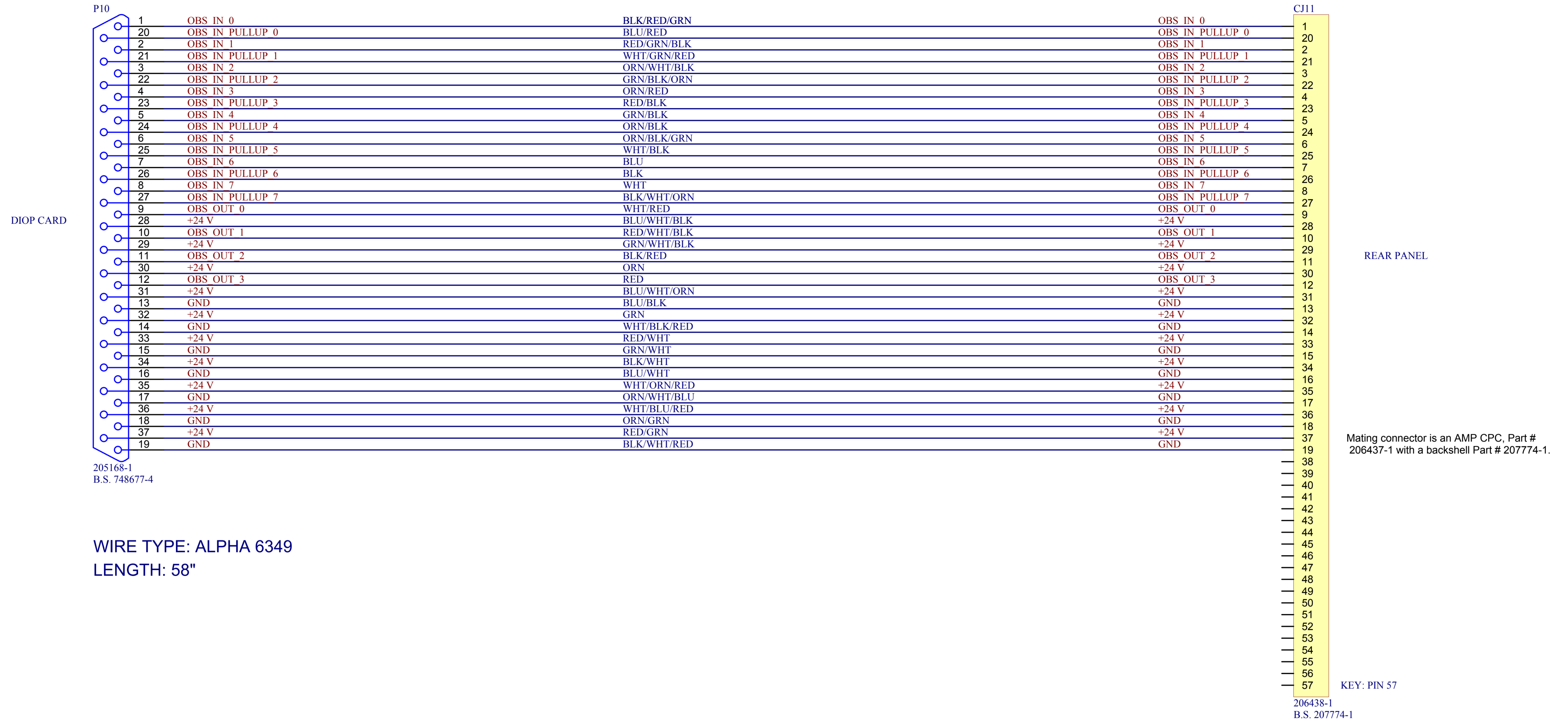
PMAC RS232 INTERFACE CABLE
SCH-5376-4

OBSERVATORY DIGITAL INPUT AND OUTPUTS

Label:
P10_DIOP
W060
to J10_DIOP
CARD

Label:
W060

Label:
CJ11
W060
to CAB_PNL



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TITLE

APF Observatory Digital I/O

DOCUMENT NUMBER

SCH-5376-4

SIZE

A3

EastConfig SCH-5376-4

SHEET 64 OF 64