

# EL PASO DC - TJX

## INTERCONNECT DRAWING PACKAGE

## I INCLUDES: ZERO PENALTY DISCHARGE AND SMART BUCKET

REV A

PUBLISHED 2025-03-31

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION	

RE

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**EL PASO DC - TJX  
INTERCONNECT DRAWING PACKAGE  
TITLE PAGE**

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	1	2	3	4	5	6	7	8	
	Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit
A	CBL-11-1	Flying	Primary Disconnect	Flying	Main Cabinet	N/A	Panel Vendor	n/a	n/a
	CBL-11-2	Flying	Facility	Flying	Primary Disconnect	N/A	Facility	n/a	n/a
	CBL-12-1	Flying 4-C	Main Cabinet	Flying	4-span A	TBD	4-Span Mfr.	n/a	n/a
	CBL-12-2	Flying 4-C	Main Cabinet	Flying	4-span B	TBD	4-Span Mfr.	n/a	n/a
	CBL-13-1	Flying 2-C	Main Cabinet	Flying	4-span A	TBD	4-Span Mfr.	n/a	n/a
	CBL-13-2	Flying 2-C	Main Cabinet	Flying	4-span B	TBD	4-Span Mfr.	n/a	n/a
	CBL-21-1	Flying 7-C	Main Cabinet	M16 A-CODE 7-PIN FEMALE	Cleated conveyor motor A	5m	Panel Vendor	107810	n/a
	CBL-21-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Cleated conveyor motor A	5m	Panel Vendor	118003	n/a
	CBL-21-4	M12 A-CODE 17-PIN MALE	Cleated conveyor motor A	Flying	Field wireable connector	1.5m	BG	106666	124671
	CBL-21-5	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Cleated conveyor motor A	5m	BG	115136-050	124671
B	CBL-22-1	Flying 7-C	Main Cabinet	M16 A-CODE 7-PIN FEMALE	Cleated conveyor motor B	5m	Panel Vendor	107810	n/a
	CBL-22-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Cleated conveyor motor B	5m	Panel Vendor	118003	n/a
	CBL-22-4	M12 A-CODE 17-PIN MALE	Cleated conveyor motor B	Flying	Field wireable connector	1.5m	BG	106666	124671
	CBL-22-5	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Cleated conveyor motor B	5m	BG	115136-050	124671
	CBL-31-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-3	25m	Panel Vendor	109823	n/a
	CBL-31-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-4	10m	Panel Vendor	118006	n/a
	CBL-31-3	M12 A-CODE 5-PIN MALE	CBL-31-1	Keyence	Overfull light curtain A1 (rx)	0.3m	BG	106185	124676
	CBL-31-4	M12 A-CODE 5-PIN MALE	CBL-31-2	Keyence	Overfull light curtain A2 (rx)	0.3m	BG	106185	124676
	CBL-31-5	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-6	25m	Panel Vendor	109823	n/a
	CBL-31-6	M12 A-CODE 5-PIN MALE	CBL-31-5	Keyence	Overfull light curtain A2 (tx)	0.3m	BG	106185	124676
C	CBL-32-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-3	25m	Panel Vendor	109823	n/a
	CBL-32-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-4	10m	Panel Vendor	118006	n/a
	CBL-32-3	M12 A-CODE 5-PIN MALE	CBL-32-1	Keyence	Overfull light curtain B1 (rx)	0.3m	BG	106185	124676
	CBL-32-4	M12 A-CODE 5-PIN MALE	CBL-32-2	Keyence	Overfull light curtain B2 (rx)	0.3m	BG	106185	124676
	CBL-32-5	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-6	25m	Panel Vendor	109823	n/a
	CBL-32-6	M12 A-CODE 5-PIN MALE	CBL-32-5	Keyence	Overfull light curtain B2 (tx)	0.3m	BG	106185	124676
	CBL-33-1	Flying 4-C	Main Cabinet	M12 A-CODE 4-PIN FEMALE	CBL-33-3	10m	Panel Vendor	111791-100	n/a
	CBL-33-2	Flying 4-C	Main Cabinet	M12 A-CODE 4-PIN FEMALE	CBL-33-4	10m	Panel Vendor	111791-100	n/a
	CBL-33-3	M12 A-CODE 5-PIN MALE	CBL-33-1	Keyence	Overfull light curtain A1 (tx)	0.3m	BG	106185	124676
	CBL-33-4	M12 A-CODE 5-PIN MALE	CBL-33-2	Keyence	Overfull light curtain B1 (tx)	0.3m	BG	106185	124676
D	CBL-41-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-41-3	10m	Panel Vendor	118006	n/a
	CBL-41-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-41-4	10m	Panel Vendor	118006	n/a
	CBL-41-3	M12 A-CODE 5-PIN MALE	CBL-41-1	Keyence	Place light curtain A (rx)	0.3m	BG	106185	124671
	CBL-41-4	M12 A-CODE 5-PIN MALE	CBL-41-2	Keyence	Place light curtain B (rx)	0.3m	BG	106185	124671
	CBL-41-5	Keyence	Place light curtain A (rx)	Keyence	Place light curtain A (tx)	1m	BG	109724	124671

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				<b>BG</b>   <b>BERKSHIRE GREY</b>  140 SOUTH ROAD BEDFORD, MA 01730	DATE	2025-03-31	DOCUMENT PACKAGE OVERVIEW INTERCONNECT DRAWING PACKAGE CABLE REFERENCE	REV    A	SECT.	OVERVIEW	JOB# BG 125350-01
					SCALE	N/A			PREV.	1	
					DRAWN	MPH			SHEET	2	
					APPROVED				NEXT	3	
REV	DATE	ENGR.	DESCRIPTION						DWG	SPS-02	

	1	2	3	4	5	6	7	8	
	Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit
A	CBL-41-6	Keyence	Place light curtain B (rx)	Keyence	Place light curtain B (tx)	1m	BG	109724	124671
	CBL-51-1	Flying 6-C	Main Cabinet	Flying 6-C	E-stop pull cord base A1	25m	Panel Vendor	118008	n/a
	CBL-51-2	Flying 6-C	Main Cabinet	Flying 6-C	E-stop pull cord base A2	25m	Panel Vendor	118008	n/a
	CBL-52-1	Flying 6-C	Main Cabinet	Flying 6-C	E-stop pull cord base B1	25m	Panel Vendor	118008	n/a
	CBL-52-2	Flying 6-C	Main Cabinet	Flying 6-C	E-stop pull cord base B2	25m	Panel Vendor	118008	n/a
	CBL-61-1	RJ45	Managed network switch	RJ45	Pick station HMI	10m	BG	115219-100	124673
	CBL-61-2	Flying 2-C	Main Cabinet	Flying 2-C	Pick station HMI	10m	Panel Vendor	118009	n/a
	CBL-62-1	RJ45	Managed network switch	RJ45	Aisle HMI	25m	BG	125612	124673
	CBL-62-2	Flying 2-C	Main Cabinet	Flying 2-C	Pick station HMI	25m	Panel Vendor	118009	n/a
	CBL-80-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Job complete button A	5m	Panel Vendor	118011	n/a
B	CBL-80-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Job complete button B	5m	Panel Vendor	118011	n/a
	CBL-91-1	Flying 3-C	Main Cabinet	Flying 3-C	Conductive rails A	10m	Panel Vendor	118012	n/a
	CBL-92-1	Flying 3-C	Conductive rails A	Flying 3-C	Terminating resistor box A	3m	BG	116790	124672
	CBL-93-1	Flying 3-C	Main Cabinet	Flying 3-C	Conductive rails B	10m	Panel Vendor	118012	n/a
	CBL-94-1	Flying 3-C	Conductive rails B	Flying 3-C	Terminating resistor box B	3m	BG	116790	124672
	CBL-101-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Stack light	1m	Panel Vendor	118013	n/a
	CBL-102-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Aisle stack light	25m	Panel Vendor	109823	n/a
	CBL-110-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	E-stop push button A	5m	Panel Vendor	118011	n/a
	CBL-110-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	E-stop push button B	10m	Panel Vendor	118006	n/a
	CBL-121-1	RJ45	Managed network switch	RJ45	Axis camera	20m	BG	115219-200	124675
C	CBL-131-1	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Slide motor A	15m	BG	109468	124672
	CBL-131-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Slide motor A	10m	Panel Vendor	118006	n/a
	CBL-131-3	Flying 6-C	Main Cabinet	M23 6-PIN FEMALE	Slide motor A	10m	Panel Vendor	114956-100	n/a
	CBL-131-4	M12 A-CODE 17-PIN MALE	Slide motor A	M8 A-CODE 3-PIN FEMALE	Slide A homing sensor	2m	BG	121991	124672
	CBL-132-1	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Slide motor B	15m	BG	109468	124672
	CBL-132-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Slide motor B	10m	Panel Vendor	118006	n/a
	CBL-132-3	Flying 6-C	Main Cabinet	M23 6-PIN FEMALE	Slide motor B	10m	Panel Vendor	114956-100	n/a
	CBL-132-4	M12 A-CODE 17-PIN MALE	Slide motor B	M8 A-CODE 3-PIN FEMALE	Slide B homing sensor	2m	BG	121991	124672
	CBL-133-1	Flying 2-C	Slide motor A	Flying 2-C	Braking resistor A	11ft	BG	114382	124674
	CBL-133-2	Flying 2-C	Main Cabinet	Flying 2-C	Braking resistor A	10m	Panel Vendor	116192	n/a
D	CBL-134-1	Flying 2-C	Slide motor B	Flying 2-C	Braking resistor B	11ft	BG	114382	124674
	CBL-134-2	Flying 2-C	Main Cabinet	Flying 2-C	Braking resistor B	10m	Panel Vendor	116192	n/a
	CBL-141-1	M12 A-CODE 5-PIN MALE	Shuttle power box A	M12 A-CODE 5-PIN FEMALE	CBL-141-5	1.5m	BG	111865-015	124672
	CBL-141-3	M12 D-CODE 4-PIN MALE	Shuttle power box A	M12 D-CODE 4-PIN MALE	Ejector A (CN2)	2m	BG	115136-020	124672
	CBL-141-5	M12 A-CODE 5-PIN MALE	CBL-141-1	2x M12 A-CODE 5-PIN FEMALE	Ejector A (power) / CBL-141-7	0.2m	BG	122360	124804

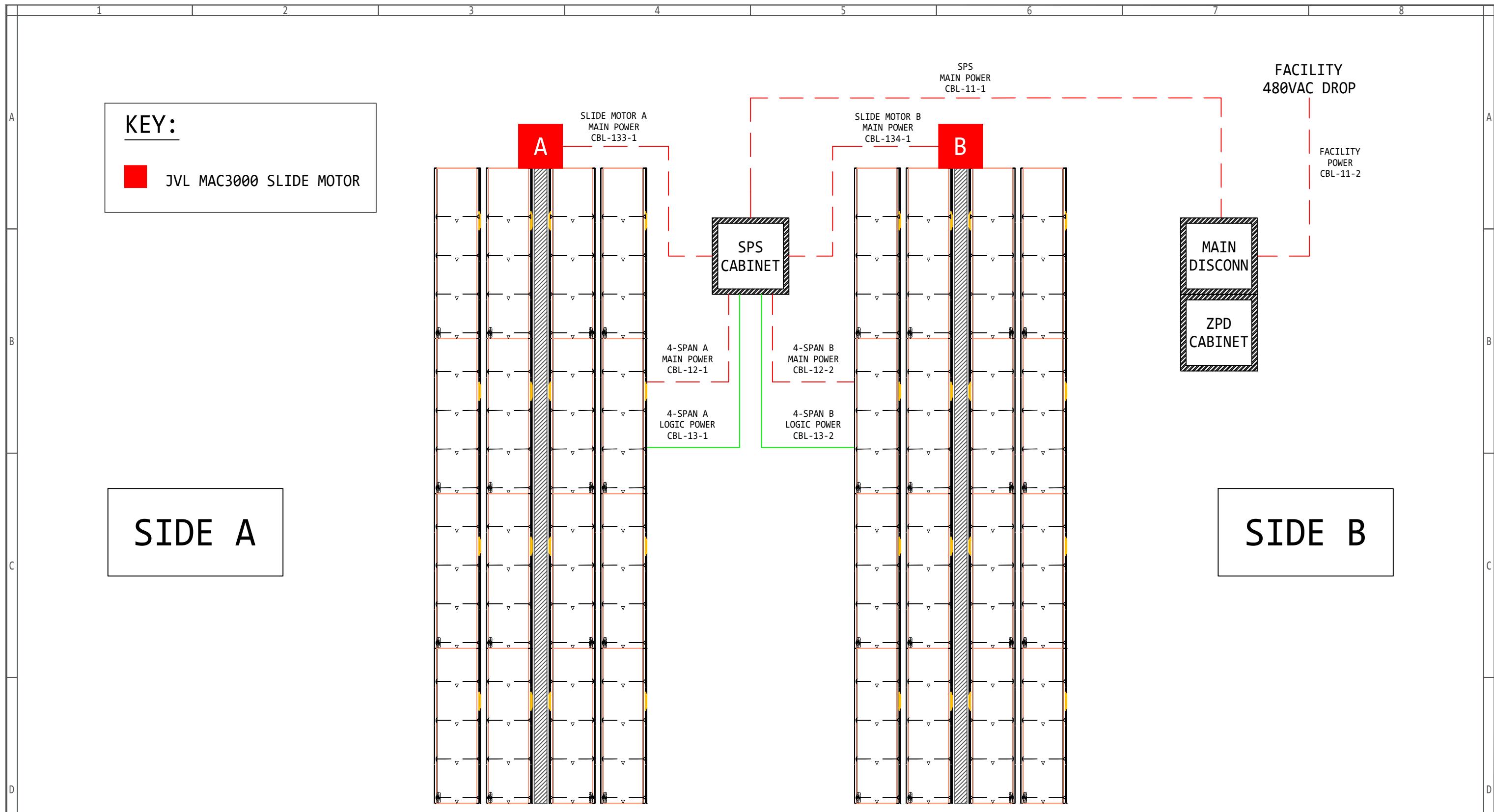
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Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit
CBL-141-7	M12 A-CODE 5-PIN MALE	CBL-141-5	M12 A-CODE 5-PIN FEMALE	CBL-143-1	1.12m	BG	124717	124804
CBL-141-8	M12 D-CODE 4-PIN FEMALE	CBL-141-9	M12 D-CODE 4-PIN FEMALE	CBL-143-2	1m	BG	124714	124804
CBL-141-9	M12 D-CODE 4-PIN MALE	Ejector A (CN3)	M12 D-CODE 4-PIN MALE	CBL-141-8 (RJ45-M12 adapter)	0.5m	BG	115136-005	124677
CBL-142-1	M12 A-CODE 5-PIN MALE	Shuttle power box B	M12 A-CODE 5-PIN FEMALE	CBL-142-5	1.5m	BG	111865-015	124672
CBL-142-3	M12 D-CODE 4-PIN MALE	Shuttle power box B	M12 D-CODE 4-PIN MALE	Ejector B (CN2)	2m	BG	115136-020	124672
CBL-142-5	M12 A-CODE 5-PIN MALE	CBL-142-1	2x M12 A-CODE 5-PIN FEMALE	Ejector B (power) / CBL-142-7	0.2m	BG	122360	124804
CBL-142-7	M12 A-CODE 5-PIN MALE	CBL-142-5	M12 A-CODE 5-PIN FEMALE	CBL-144-1	1.12m	BG	124717	124804
CBL-142-8	M12 D-CODE 4-PIN FEMALE	CBL-142-9	M12 D-CODE 4-PIN FEMALE	CBL-144-2	1m	BG	124714	124804
CBL-142-9	M12 D-CODE 4-PIN MALE	Ejector B (CN3)	M12 D-CODE 4-PIN MALE	CBL-142-8 (RJ45-M12 adapter)	0.5m	BG	115136-005	124677
CBL-143-1	M12 A-CODE 5-PIN MALE	CBL-141-7	M12 A-CODE 5-PIN FEMALE	DXMR90-4K	0.91m	BG	122361	124804
CBL-143-2	M12 D-CODE 4-PIN MALE	CBL-141-8 (RJ45-M12 adapter)	M12 D-CODE 4-PIN MALE	DXMR90-4K	1m	BG	122362	124804
CBL-143-3	M12 A-CODE 4-PIN MALE	DXMR90-4K	2x M12 A-CODE 4-PIN FEMALE	Lower left/right sensors	0.1m	BG	122359	124804
CBL-144-1	M12 A-CODE 5-PIN MALE	CBL-142-7	M12 A-CODE 5-PIN FEMALE	DXMR90-4K	0.91m	BG	122361	124804
CBL-144-2	M12 D-CODE 4-PIN MALE	CBL-142-8 (RJ45-M12 adapter)	M12 D-CODE 4-PIN MALE	DXMR90-4K	1m	BG	122362	124804
CBL-144-3	M12 A-CODE 4-PIN MALE	DXMR90-4K	2x M12 A-CODE 4-PIN FEMALE	Lower left/right sensors	0.1m	BG	122359	124804
CBL-145-1	Spade connector 1-C	Shuttle power box A	Flying 1-C	0V collector A	0.4m	Panel Vendor	115782	n/a
CBL-145-2	Spade connector 1-C	Shuttle power box A	Flying 1-C	24V collector A	0.4m	Panel Vendor	115781	n/a
CBL-145-3	Spade connector 1-C	Shuttle power box A	Flying 1-C	72V collector A	0.4m	Panel Vendor	115781	n/a
CBL-146-1	Spade connector 1-C	Shuttle power box B	Flying 1-C	0V collector B	0.4m	Panel Vendor	115782	n/a
CBL-146-2	Spade connector 1-C	Shuttle power box B	Flying 1-C	24V collector B	0.4m	Panel Vendor	115781	n/a
CBL-146-3	Spade connector 1-C	Shuttle power box B	Flying 1-C	72V collector B	0.4m	Panel Vendor	115781	n/a
CBL-151-1	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner A1	10m	Panel Vendor	118015	n/a
CBL-151-2	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner A2	10m	Panel Vendor	118015	n/a
CBL-151-3	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner A1	10m	BG	115138-100	124672
CBL-151-4	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner A2	10m	BG	115138-100	124672
CBL-152-1	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner B1	10m	Panel Vendor	118015	n/a
CBL-152-2	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner B2	10m	Panel Vendor	118015	n/a
CBL-152-3	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner B1	15m	BG	109468	124672
CBL-152-4	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner B2	15m	BG	109468	124672
CBL-153-1	Flying 17-C	Main Cabinet	M12 A-CODE 17-PIN FEMALE	Donor barcode scanner	10m	Panel Vendor	118016	n/a
CBL-153-2	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Donor barcode scanner	10m	BG	115138-100	124671
CBL-153-3	Flying 4-C	Main Cabinet	M8 A-CODE 4-PIN FEMALE	Hardware trigger photo-eye	5m	Panel Vendor	120452	n/a
CBL-160-1	L5-15P	Facility 120V service outlet	C13 FEMALE	Managed network switch	15ft	BG	111381	124671
CBL-160-2	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Unmanaged network switch	10m	BG	115138-100	124671
CBL-160-3	RJ45	Managed network switch	TBD	4-Span control card side A	TBD	4-Span Mfr.	n/a	n/a

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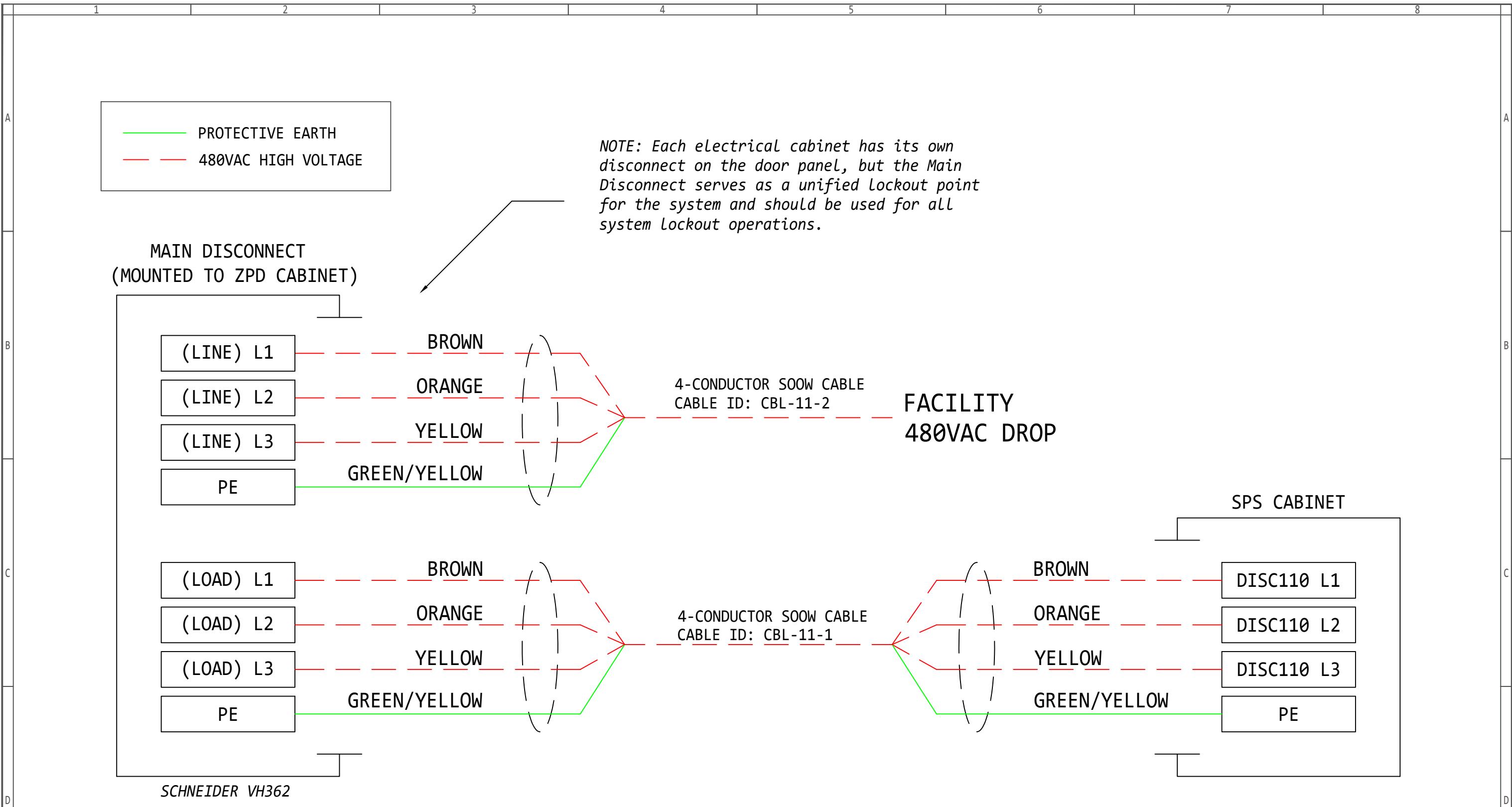
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				<b>BG</b>   <b>BERKSHIRE GREY</b>  140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE      2025-03-31 SCALE     N/A DRAWN    RBL APPROVED	FACILITY WIRING MODULE  INTERCONNECT DRAWING PACKAGE  FACILITY POWER WIRING - OVERVIEW	REV  A	SECT.    OVERVIEW PREV. SHEET    10 NEXT    11	JOB#    BG 125351-02  DWG    SPS-10
REV	DATE	ENGR.	DESCRIPTION							



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REV	DATE	ENGR.	DESCRIPTION



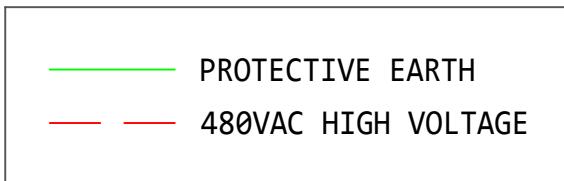
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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

FACILITY WIRING MODULE  
INTERCONNECT DRAWING PACKAGE  
SYSTEM CABINET 480VAC POWER FROM DISCONNECT - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	10	BG 125351-02
	SHEET	11	
A	NEXT	12	DWG SPS-11

A

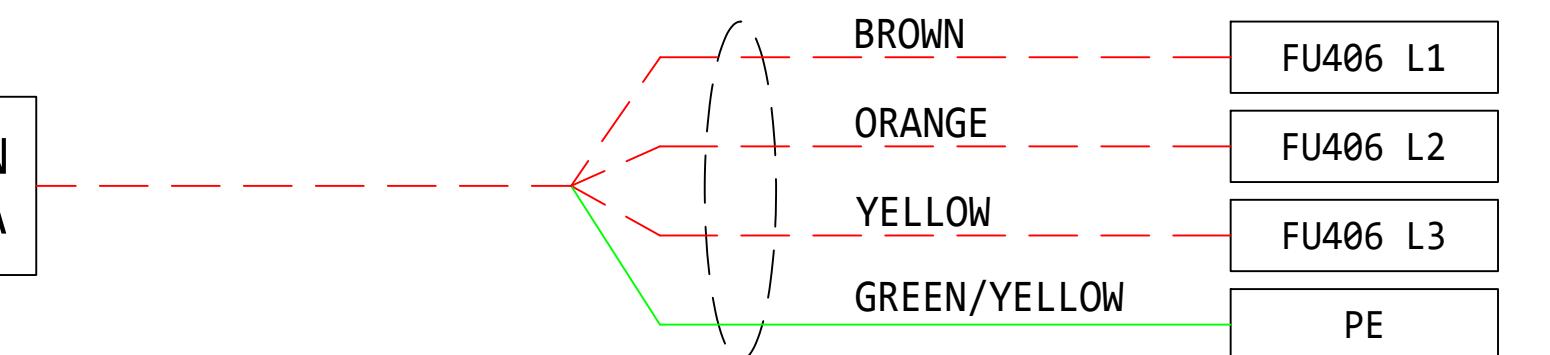


*NOTE: Each 480VAC phase terminal block is fused with a 6A fuse.*

B

4-SPAN  
SIDE A

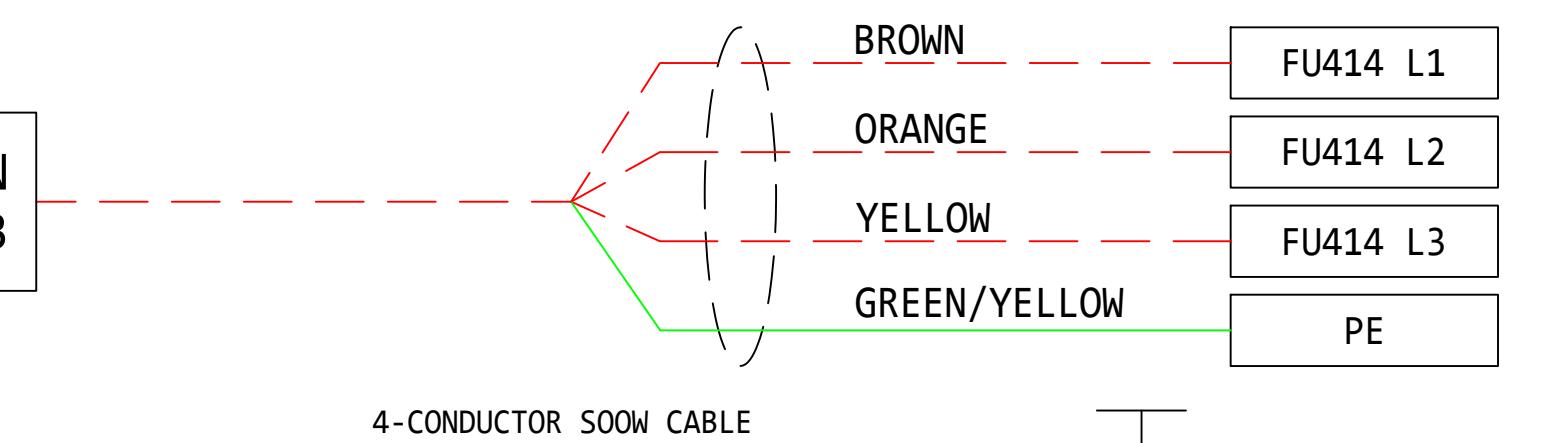
4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-12-1



C

4-SPAN  
SIDE B

4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-12-2



D

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

FACILITY WIRING MODULE  
INTERCONNECT DRAWING PACKAGE  
4-SPAN 480VAC POWER - WIRING

REV	SECT.	DETAIL	JOB#
PREV.		11	BG 125351-02
SHEET		12	
NEXT		13	DWG SPS-12

1 2 3 4 5 6 7 8

A A

B B

C C

D D

4-SPAN  
SIDE A

4-SPAN  
SIDE B

2-CONDUCTOR ASI FLAT CABLE  
CABLE ID: CBL-13-1

SPS CABINET

612 (24V)

0V

2-CONDUCTOR ASI FLAT CABLE  
CABLE ID: CBL-13-2

612 (24V)

0V

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



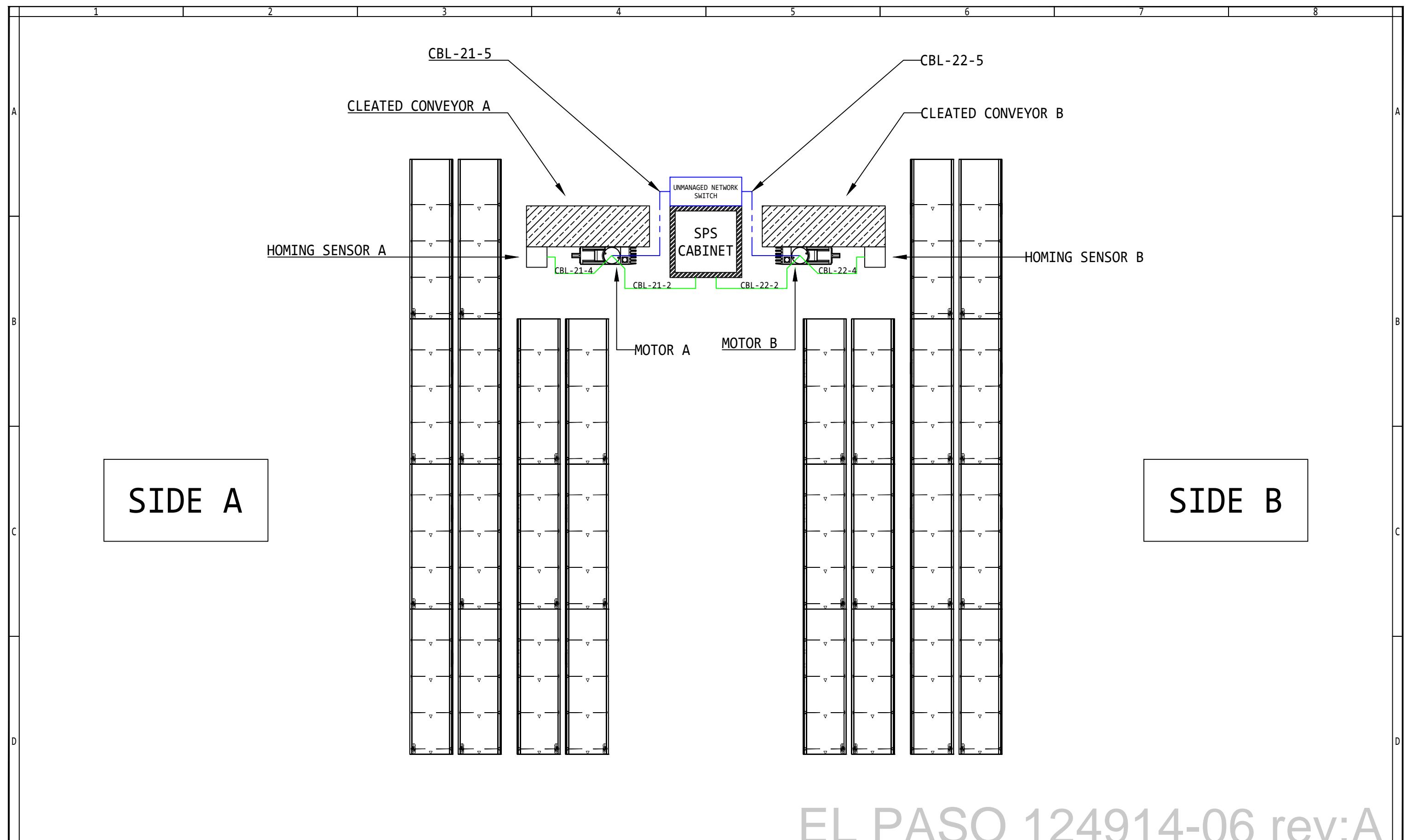
BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

FACILITY WIRING MODULE  
INTERCONNECT DRAWING PACKAGE  
4-SPAN LOGIC POWER - WIRING

REV	SECT.	DETAIL	JOB#
PREV.		12	BG 125351-02
SHEET		13	
NEXT		14	DWG SPS-13



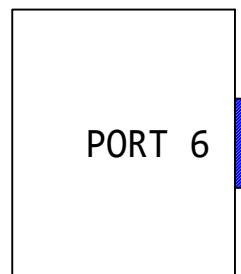
EL PASO 124914-06 rev:A

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REV	DATE	ENGR.	DESCRIPTION						
				BG BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730					

1 2 3 4 5 6 7 8

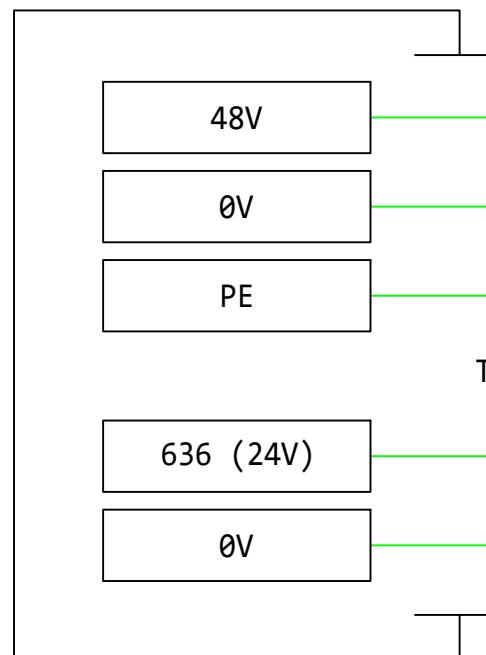
# SIDE A

UNMANAGED  
NETWORK SWITCH



M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-21-5

SPS CABINET



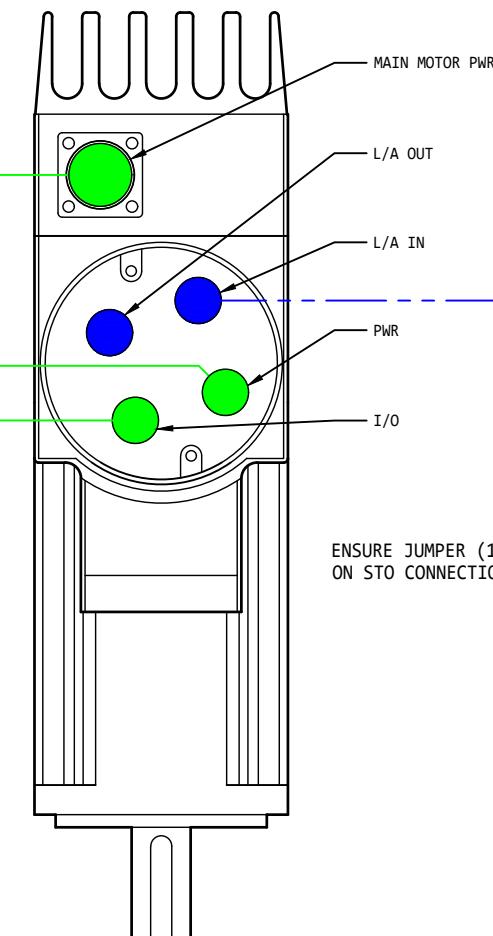
TWIST WIRES TOGETHER AND FERRULE

7-PIN M16 FEMALE to FLYING  
CABLE ID: CBL-21-1

RED  
RED  
RED  
BLACK  
BLACK  
BLACK  
GREEN/YELLOW

BROWN  
WHITE  
BLUE  
BLACK  
GREY

MOTOR A  
JVL MAC402



17-PIN M12 MALE to FLYING  
CABLE ID: CBL-21-4

TO HOMING SENSOR SIDE A  
(See SPS-023 for wiring details)

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

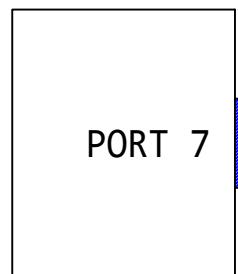
CLEATED CONVEYOR MOTORS  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTOR WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	20	BG 125352-01
	SHEET	21	
A	NEXT	22	DWG SPS-21

1 2 3 4 5 6 7 8

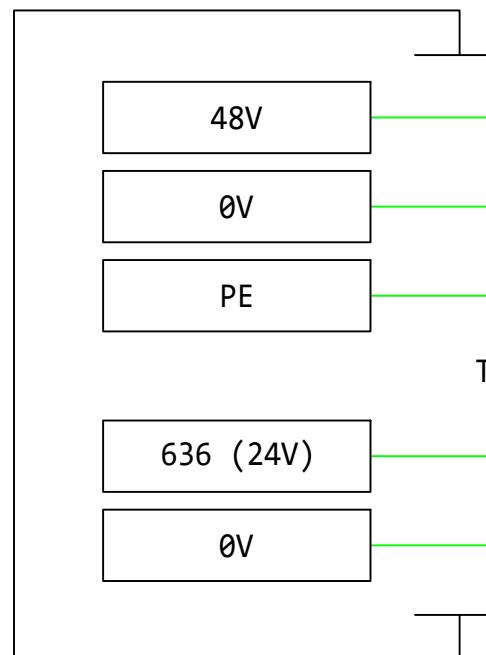
## SIDE B

UNMANAGED  
NETWORK SWITCH



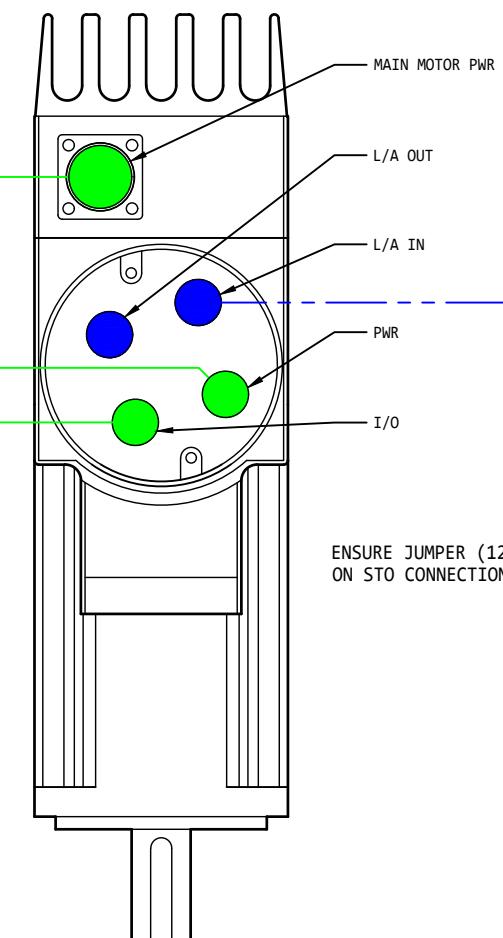
M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-22-5

SPS CABINET



7-PIN M16 FEMALE to FLYING  
CABLE ID: CBL-22-1

MOTOR B  
JVL MAC402



RED

RED

RED

BLACK

BLACK

BLACK

GREEN/YELLOW

BROWN

WHITE

BLUE

BLACK

GREY

5-PIN M12 FEMALE to FLYING  
CABLE ID: CBL-22-2

TO HOMING SENSOR SIDE B  
(See SPS-023 for wiring details)

17-PIN M12 MALE to FLYING  
CABLE ID: CBL-22-4

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

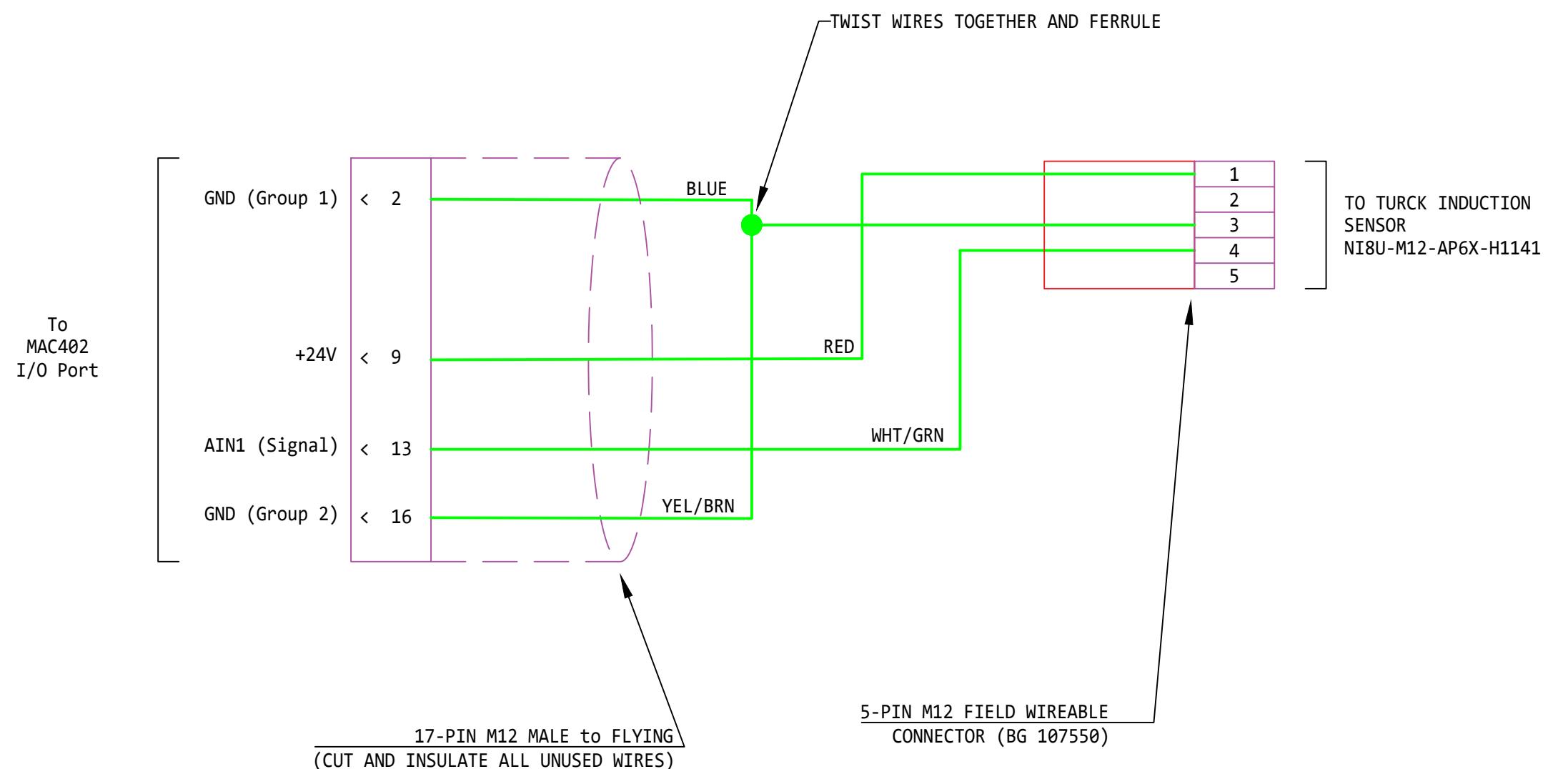
CLEATED CONVEYOR MOTORS  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTOR WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
	PREV.	21	BG 125352-01
	SHEET	22	
	NEXT	23	DWG SPS-22

1 2 3 4 5 6 7 8

17-PIN M12 WIRE COLORS	
A	1 = BROWN
	2 = BLUE
	3 = WHITE
	4 = GREEN
	5 = PINK
	6 = YELLOW
	7 = BLACK
	8 = GREY
	9 = RED
	10 = VIOLET
	11 = GREY/PINK
	12 = RED/BLUE
	13 = WHITE/GREEN
	14 = BROWN/GREEN
	15 = WHITE/YELLOW
	16 = YELLOW/BROWN
	17 = WHITE/GREY

BOTH SIDES



REV	DATE	ENGR.	DESCRIPTION



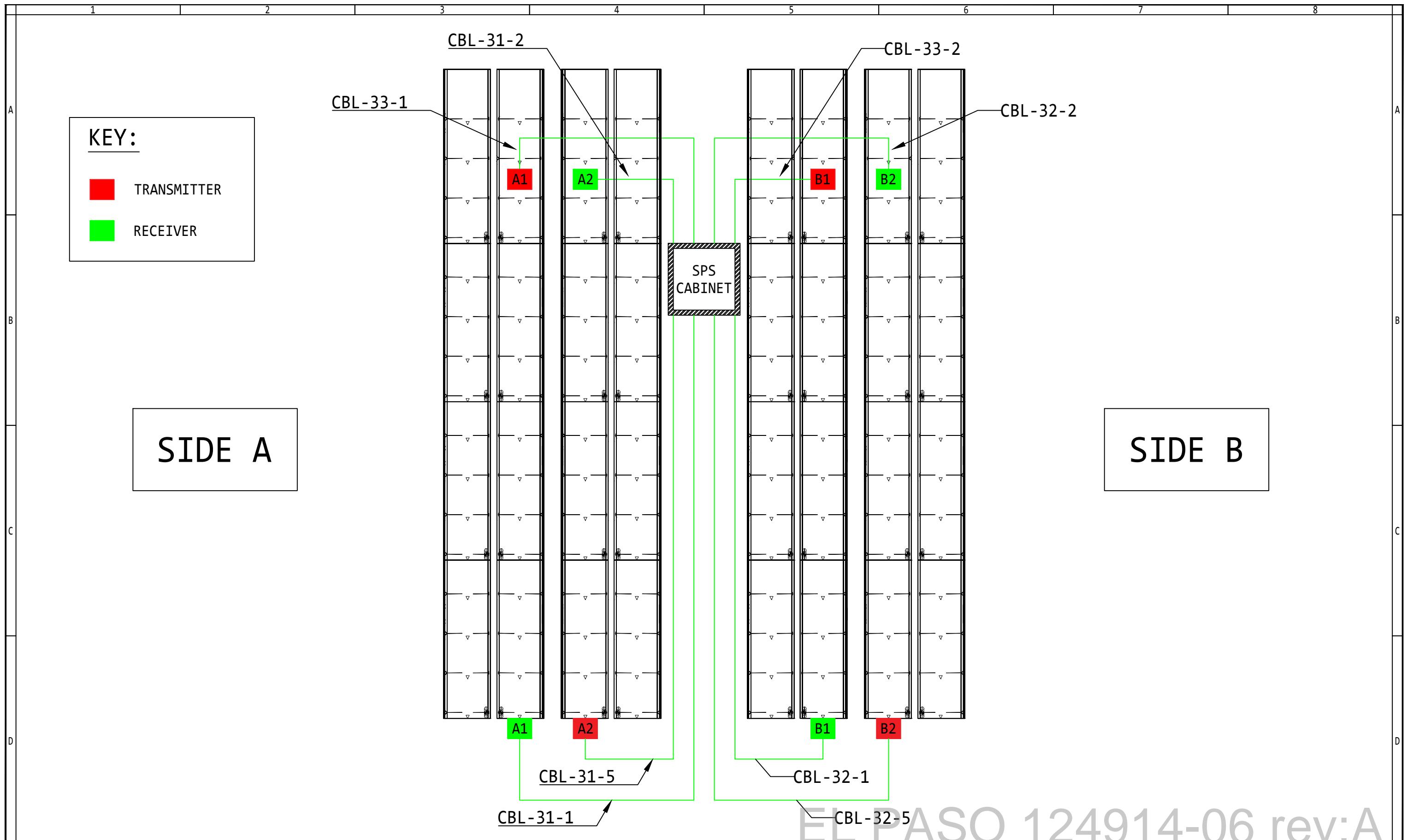
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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

CLEATED CONVEYOR MOTORS  
INTERCONNECT DRAWING PACKAGE  
HOMING SENSOR WIRING - BOTH SIDES

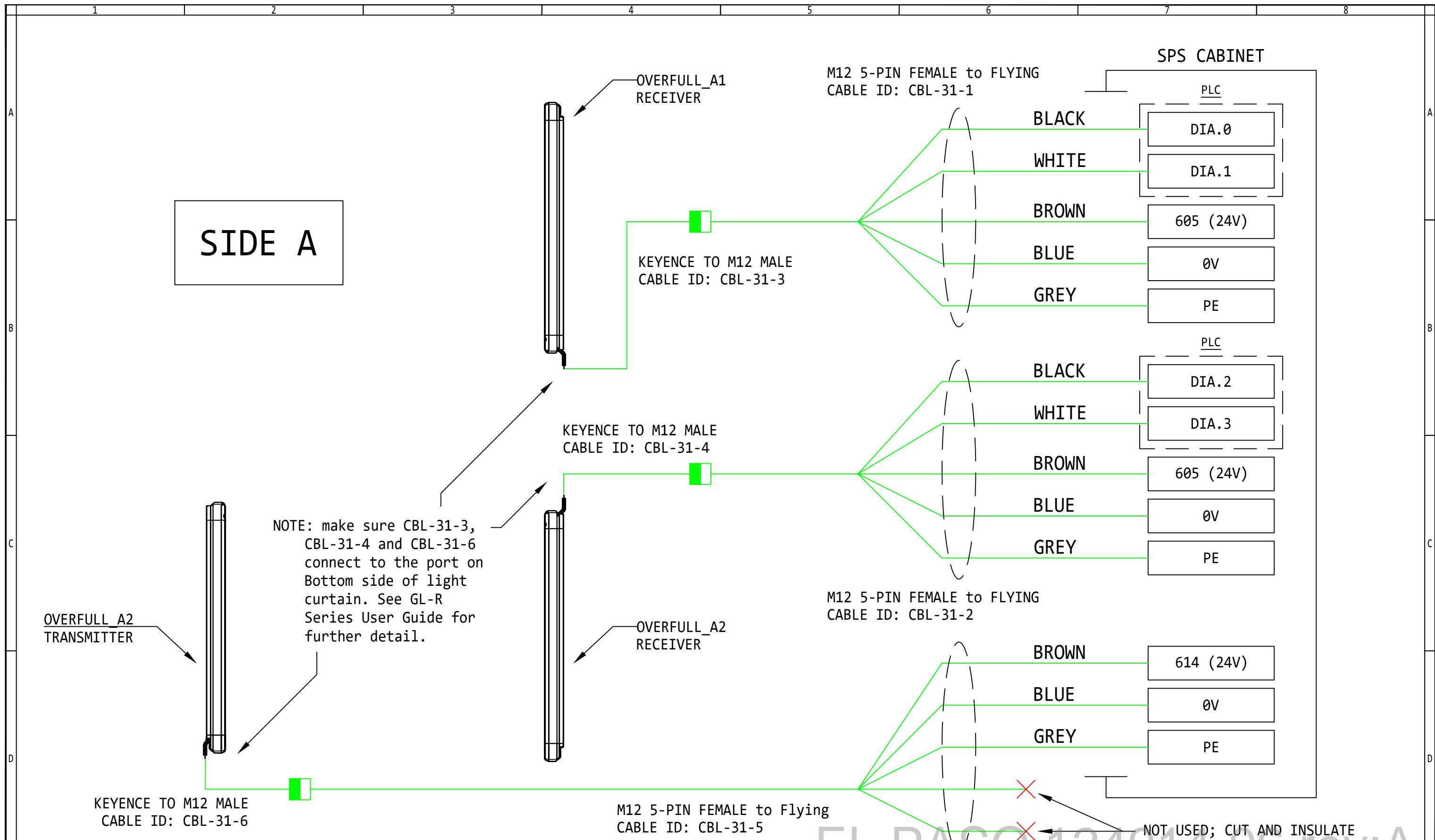
REV	SECT.	DETAIL	JOB#
A	PREV.	22	BG 125352-01
	SHEET	23	
	NEXT	DWG	SPS-23

EL PASO 124914-06 rev:A



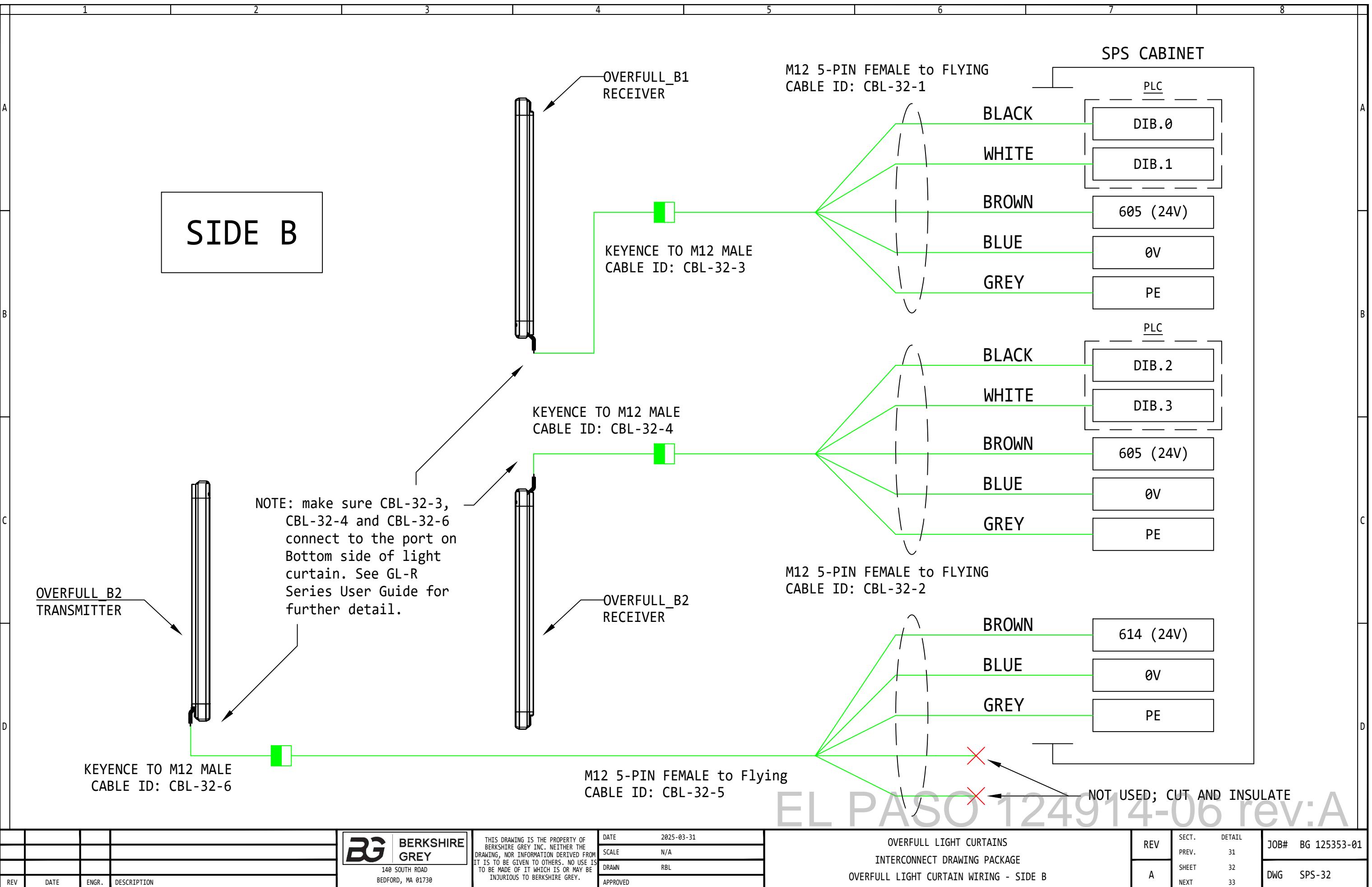
REV	DATE	ENGR.	DESCRIPTION	BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31 SCALE N/A DRAWN RBL APPROVED	OVERFULL LIGHT CURTAINS INTERCONNECT DRAWING PACKAGE OVERFULL LIGHT CURTAINS - OVERVIEW	REV A	SECT. PREV. SHEET 30	OVERVIEW NEXT 31	JOB# BG 125353-01 DWG SPS-30
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EL PASO 124914-06 rev:A



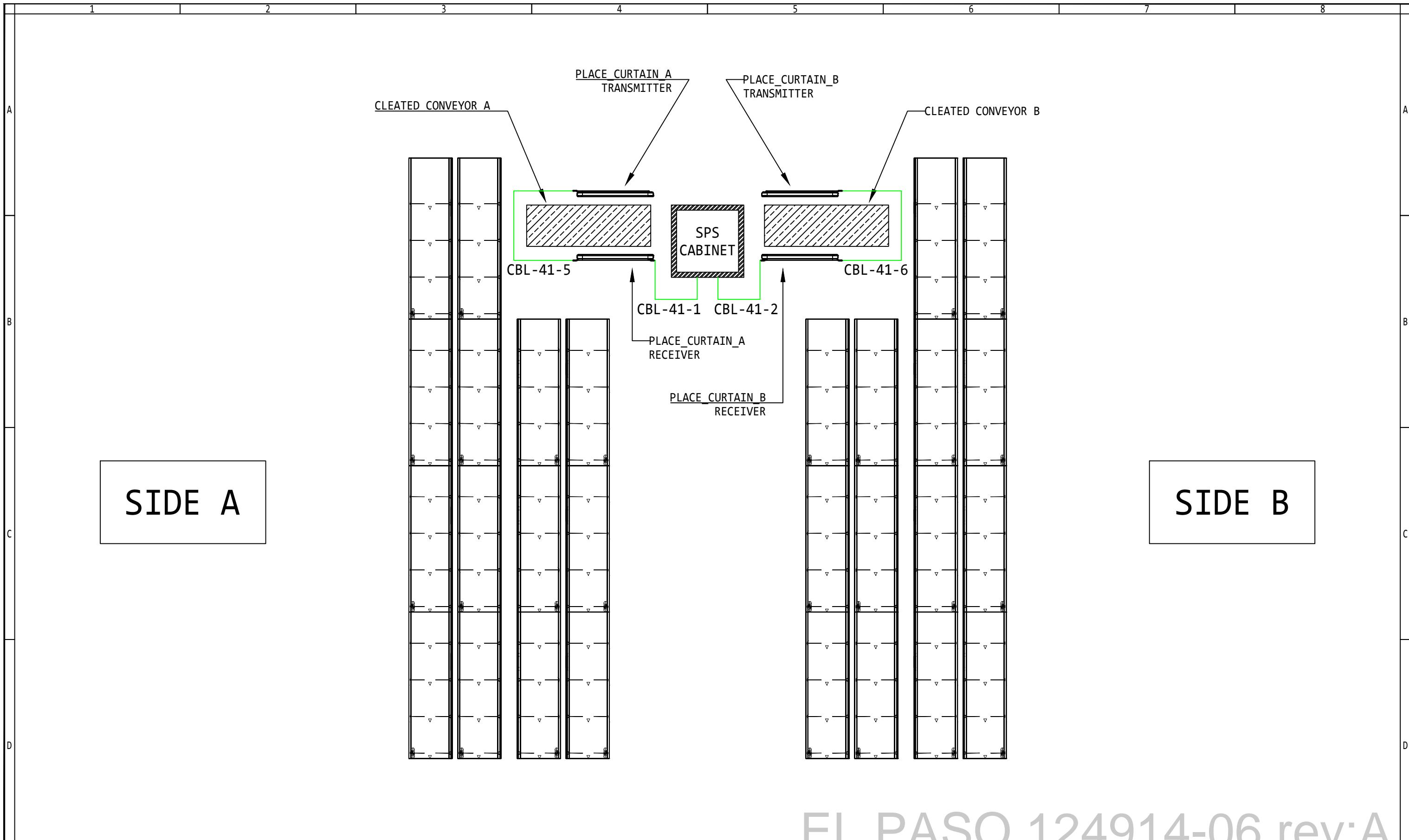
EL PASO 124914-06 rev:A

				<b>BG</b>   <b>BERKSHIRE GREY</b>  140 SOUTH ROAD BEDFORD, MA 01730	DATE	2025-03-31	OVERFULL LIGHT CURTAINS INTERCONNECT DRAWING PACKAGE OVERFULL LIGHT CURTAIN WIRING - SIDE A	REV     A	SECT.	DETAIL	JOB#	BG 125353-01
					SCALE	N/A			PREV.	30		
					DRAWN	RBL			SHEET	31		
					APPROVED				NEXT	32		DWG SPS-31
REV	DATE	ENGR.	DESCRIPTION									



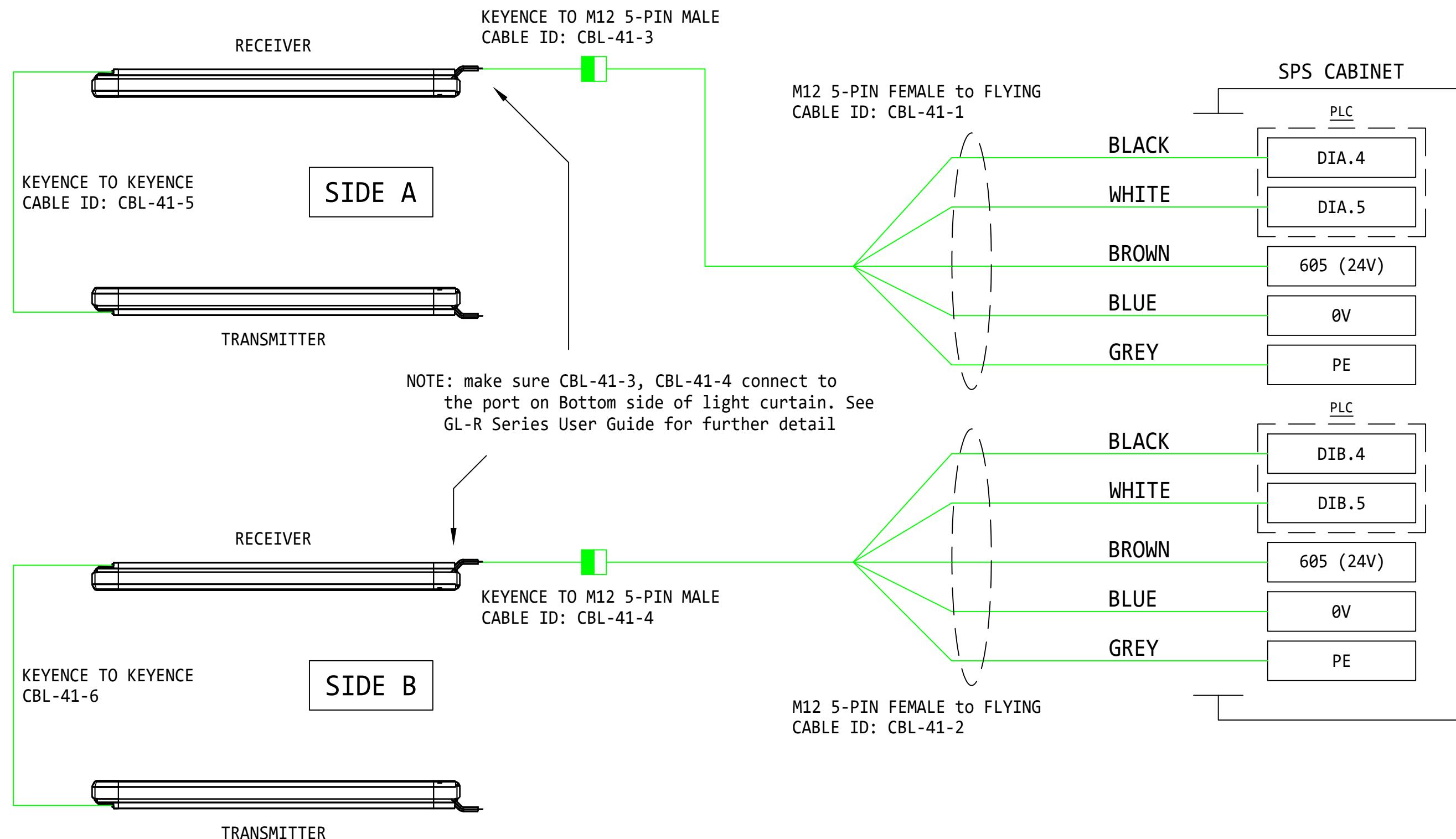


1 2 3 4 5 6 7 8



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REV	DATE	ENGR.	DESCRIPTION						
				BG BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730					



EL PASO 124914-06 rev:A

				REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION	PREV.	40	41	BG 125354-01

**BERKSHIRE GREY**  
140 SOUTH ROAD  
BEDFORD, MA 01730

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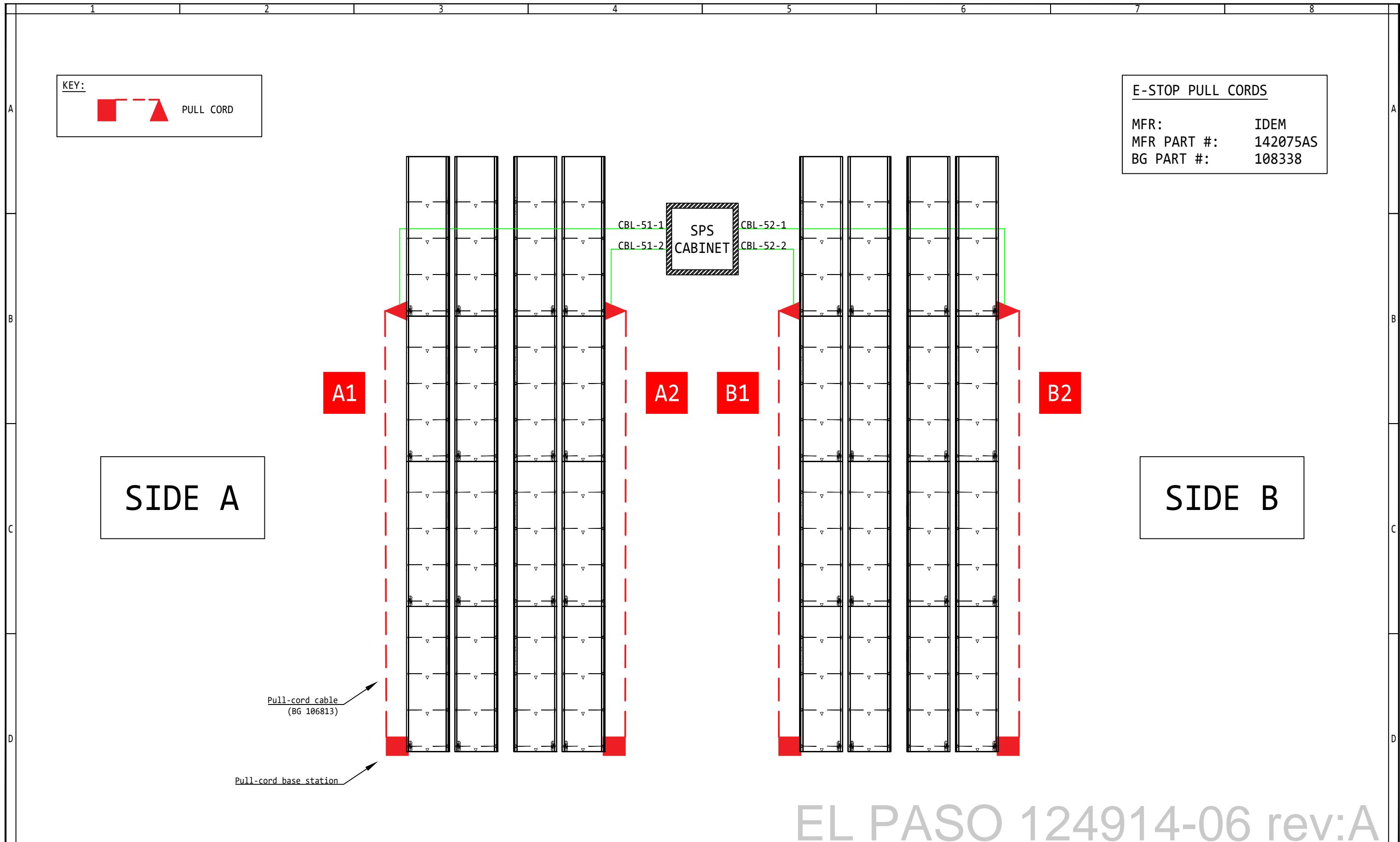
DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

PLACE LIGHT CURTAIN MODULE  
INTERCONNECT DRAWING PACKAGE  
PLACE LIGHT CURTAINS - WIRING

REV A

Sheet 41  
Next Dwg SPS-41

1 2 3 4 5 6 7 8

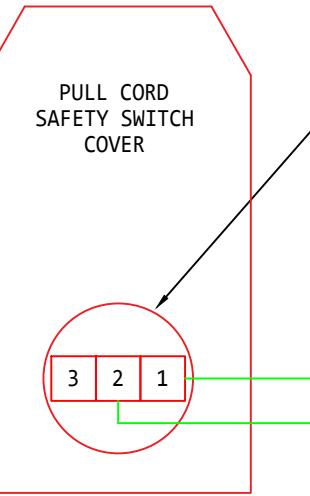
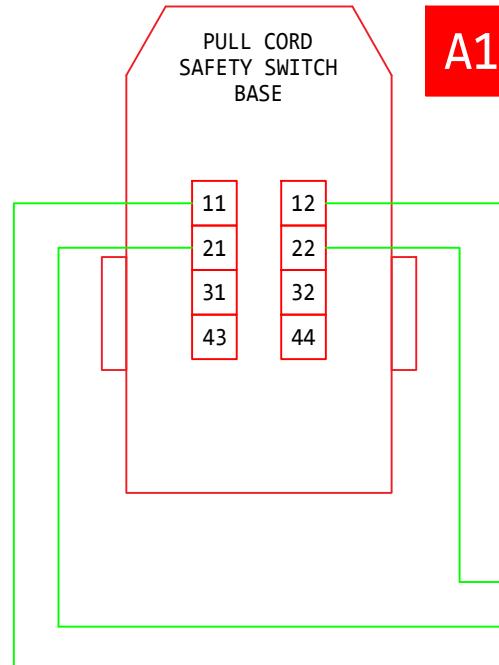


EL PASO 124914-06 rev:A

E-STOP PULL CORD MODULE  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS - OVERVIEW

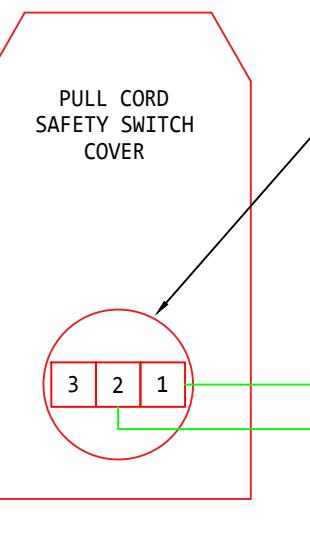
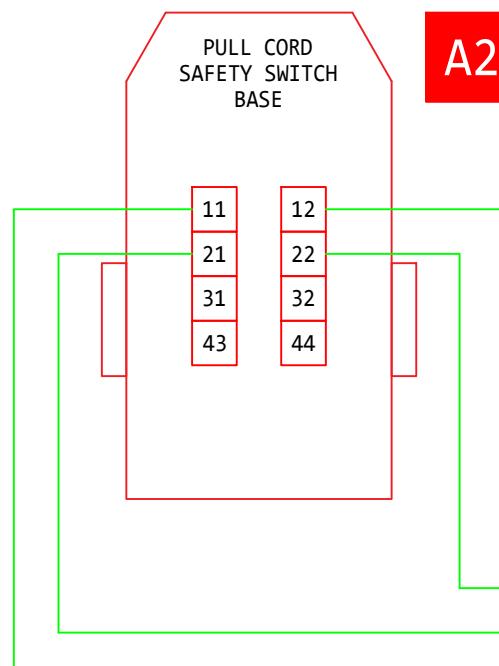
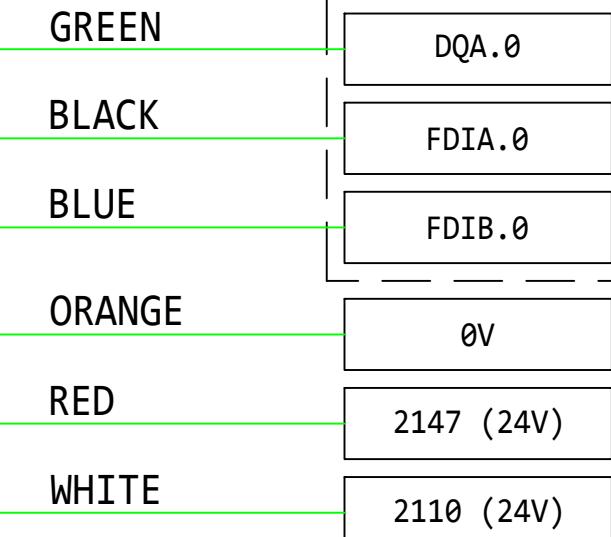
				<b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE	2025-03-31	REV	SECT.	OVERVIEW	JOB#	
REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A				50	125355-01
						DRAWN	RBL		A	NEXT	51	SPS-50
						APPROVED						

# SIDE A



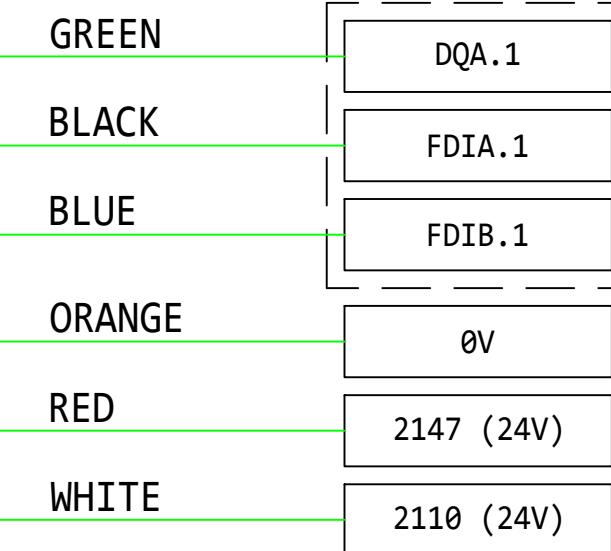
CONNECTIONS LOCATED BEHIND THE COVER

6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-51-1



CONNECTIONS LOCATED BEHIND THE COVER

6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-51-2



REV	DATE	ENGR.	DESCRIPTION



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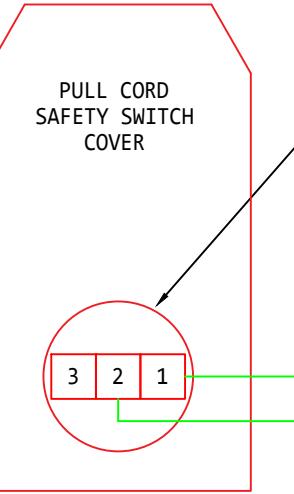
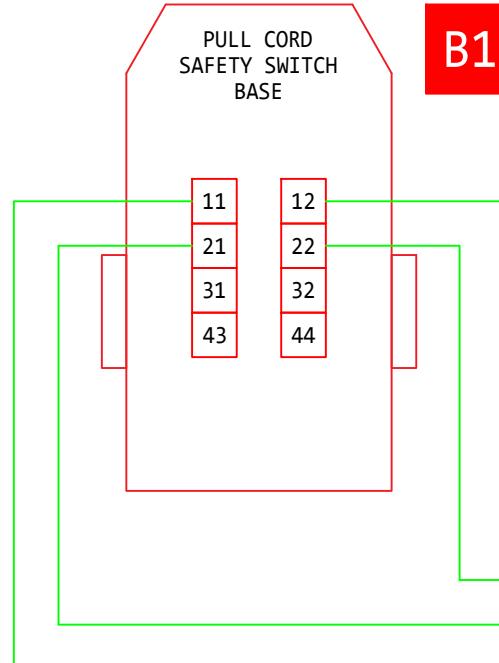
DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

E-STOP PULL CORD MODULE  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
A	PREV.	50	BG 125355-01
	SHEET	51	SPS-51
	NEXT	52	
	DWG	SPS-51	

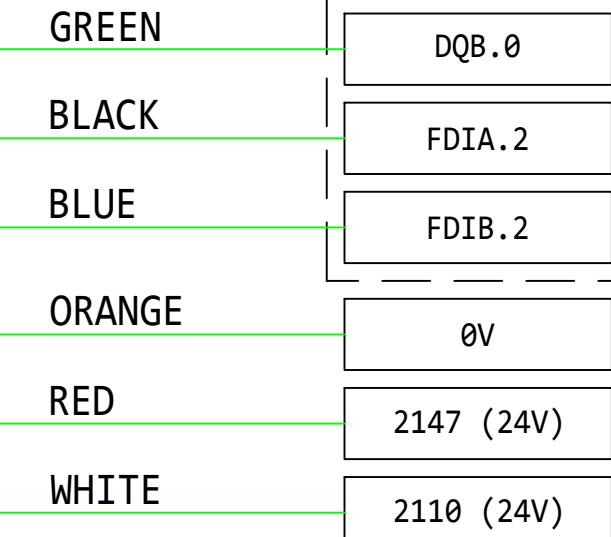
EL PASO 124914-06 rev:A

# SIDE B

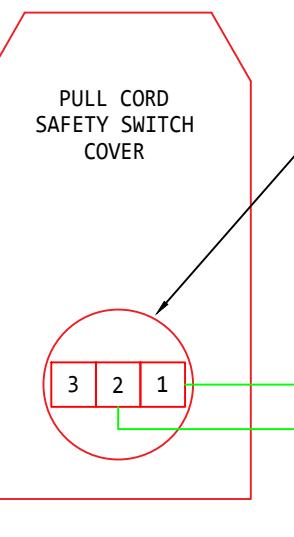
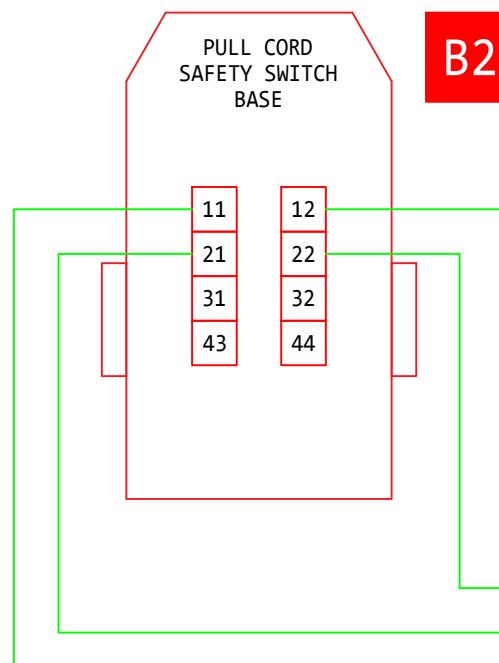


CONNECTIONS LOCATED BEHIND THE COVER

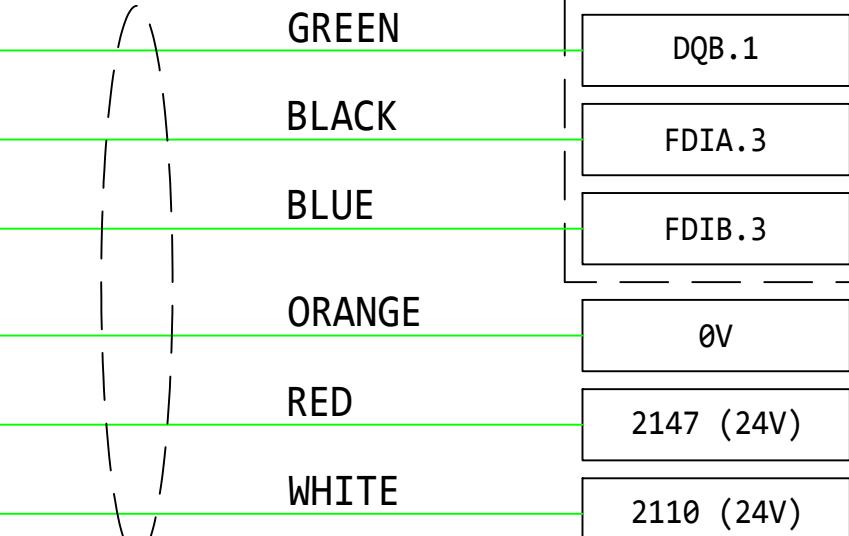
6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-52-1



## SPS CABINET



CONNECTIONS LOCATED BEHIND THE COVER



6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-52-2

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

E-STOP PULL CORD MODULE  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
A	PREV.	51	BG 125355-01
	SHEET	52	
	NEXT	53	SPS-52

A

# REFERENCE

B

C

D

A

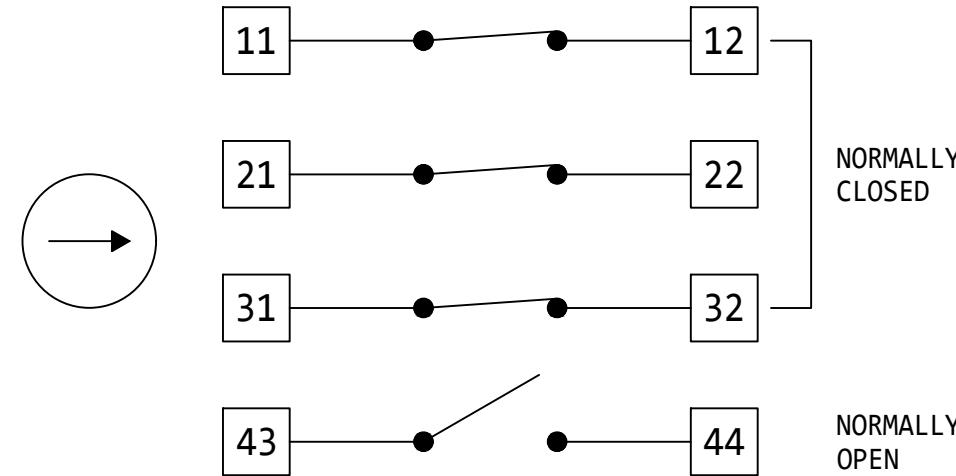
B

C

D

## PULL CORD BASE INTERNAL OPERATION

ESTOP SWITCH



INDICATOR LIGHT

- 1 24VDC TO ILLUMINATE RED
- 2 GROUND (0V)
- 3 24VDC TO ILLUMINATE GREEN

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

E-STOP PULL CORD MODULE  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS - REFERENCE

REV	SECT.	REFERENCE	JOB#
PREV.		52	BG 125355-01
SHEET	A	53	SPS-53
NEXT			

1 2 3 4 5 6 7 8

A

A

B

B

C

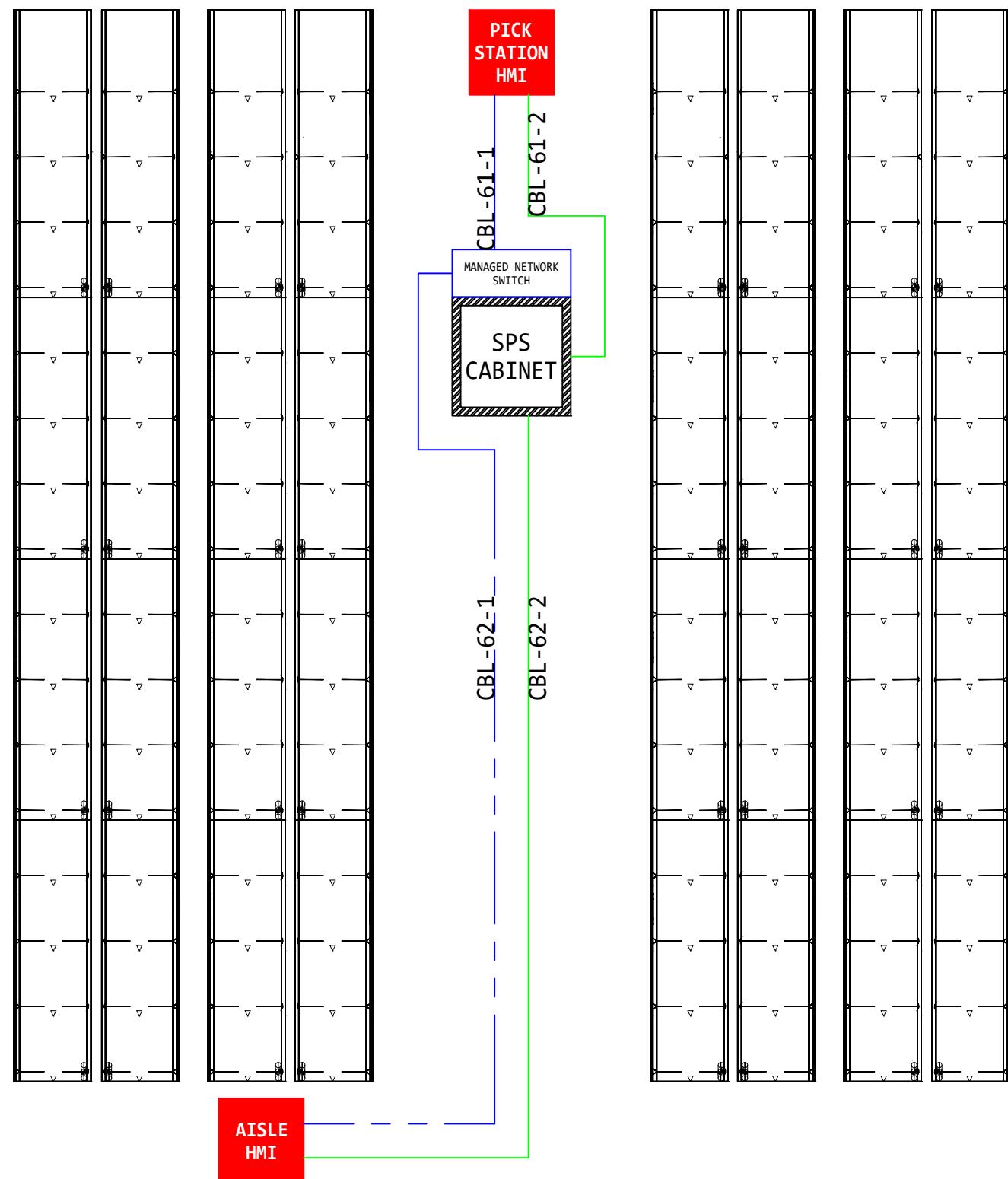
C

D

D

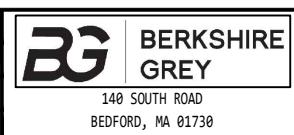
SIDE A

SIDE B



EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

HMI MODULE  
INTERCONNECT DRAWING PACKAGE  
HMI - OVERVIEW

REV	SECT. OVERVIEW	JOB#
	PREV.	BG 125356-01
A	SHEET 60	DWG SPS-60
	NEXT 61	

PICK  
STATION  
HMI

LAN PORT

USB PORT

DC IN 12-24V

GND

RJ45 to RJ45  
CABLE ID: CBL-61-1

MANAGED NETWORK SWITCH

PORT 20

To USB Peripheral  
OPTIONAL - see Section 180

SPS CABINET

RED

FU609 (24V)

BLACK

0V

2-CONDUCTOR FLYING to FLYING  
18 AWG  
CABLE ID: CBL-61-2

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION
			BG BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730

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INJURIOUS TO BERKSHIRE GREY.

DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

HMI MODULE  
INTERCONNECT DRAWING PACKAGE  
PICK STATION HMI - WIRING

REV	SECT.	DETAIL	JOB#
A	PREV.	60	BG 125356-01
	SHEET	61	SPS-61
	NEXT	62	



LAN PORT

DC IN 12-24V

GND

RJ45 to RJ45  
CABLE ID: CBL-62-1

PORT 21

SPS CABINET

RED

FU607 (24V)

BLACK

0V

2-CONDUCTOR FLYING to FLYING  
18 AWG  
CABLE ID: CBL-62-2

EL PASO 124914-06 rev:A

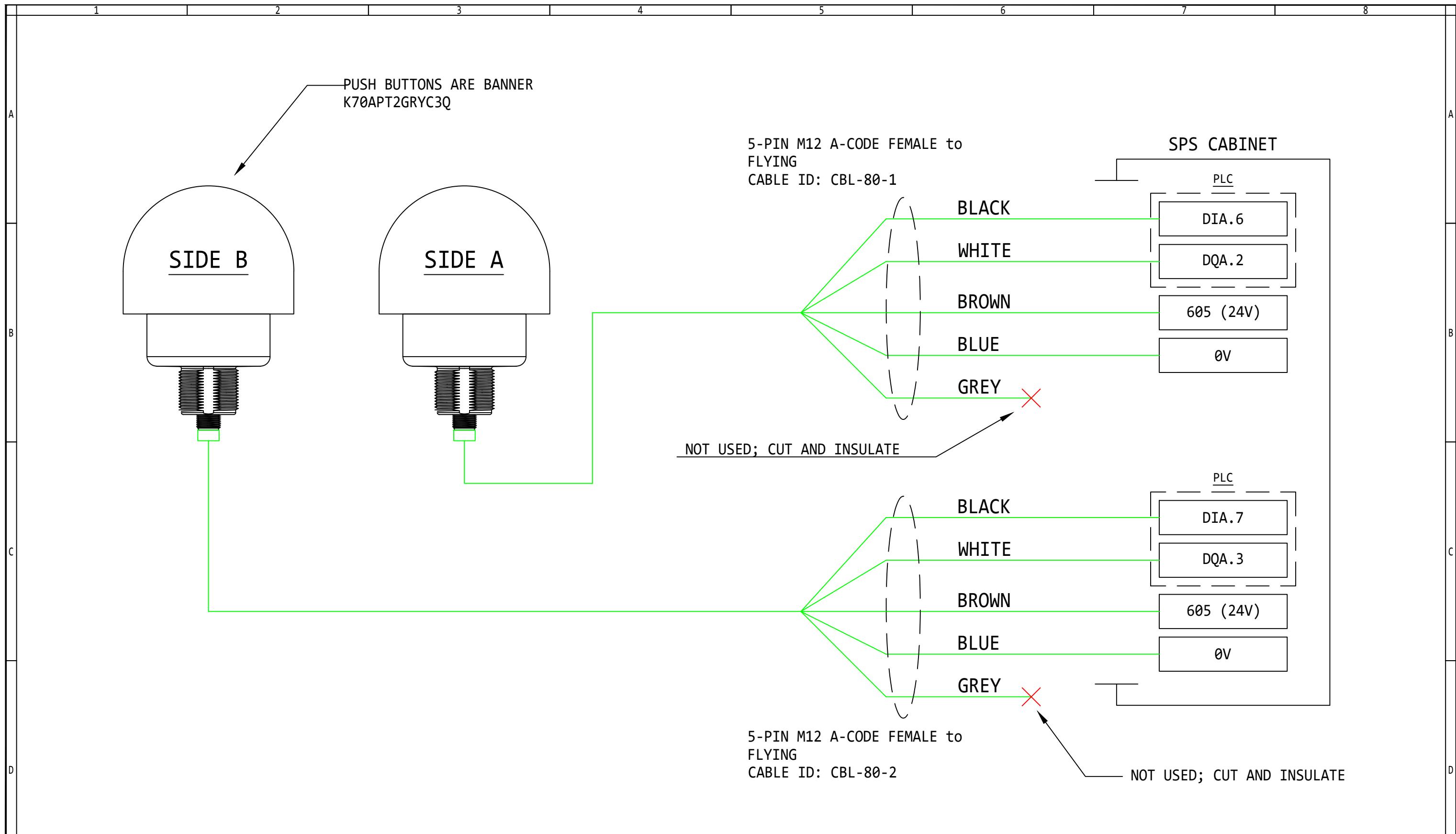
				BERKSHIRE GREY
				140 SOUTH ROAD BEDFORD, MA 01730
REV	DATE	ENGR.	DESCRIPTION	

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INJURIOUS TO BERKSHIRE GREY.

DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

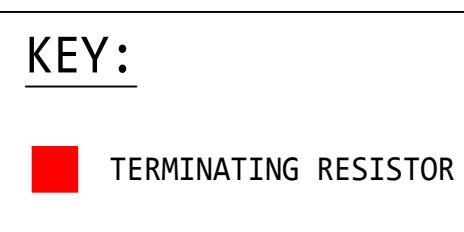
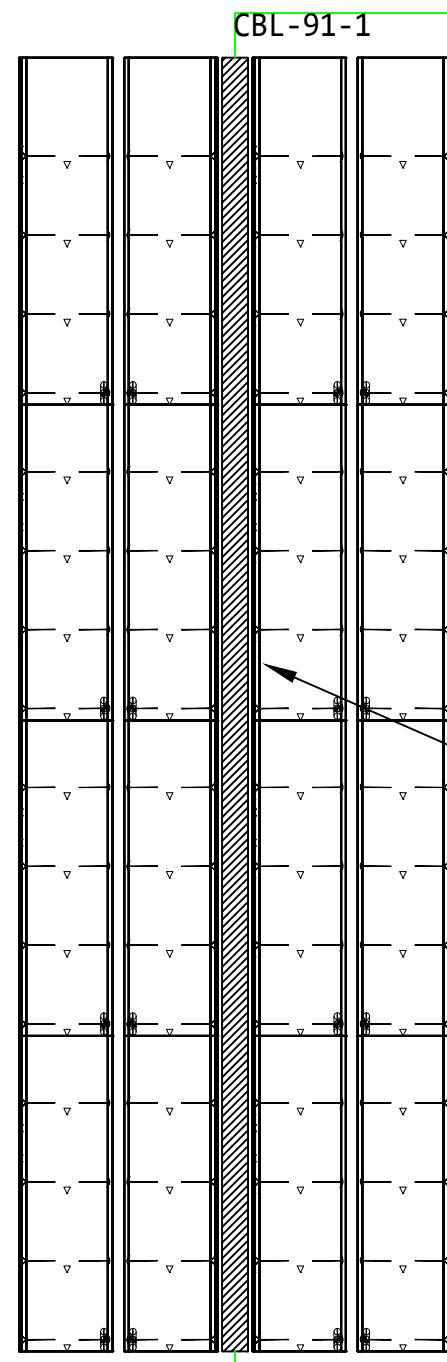
HMI MODULE  
INTERCONNECT DRAWING PACKAGE  
AISLE HMI - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	61	BG 125356-01
A	SHEET	62	SPS-62
	NEXT		DWG

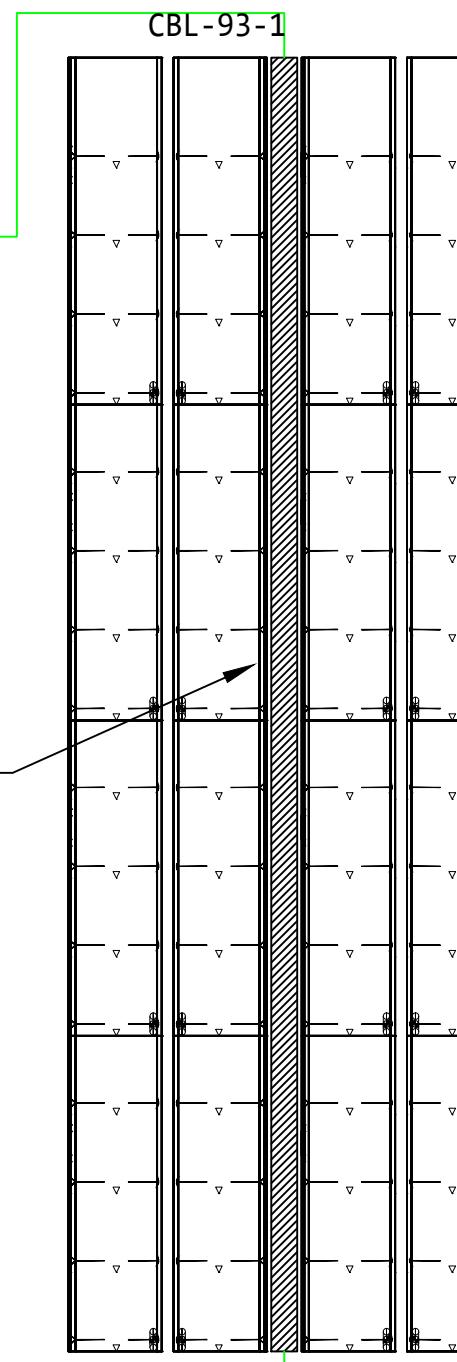
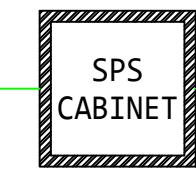


EL PASO 124914-06 rev:A

1 2 3 4 5 6 7 8

A A  
B B  
C C  
D D**SIDE A**

SHUTTLE I-BEAMS  
(CONDUCTIVE  
RAILS HOUSED  
INSIDE)

**SIDE B**

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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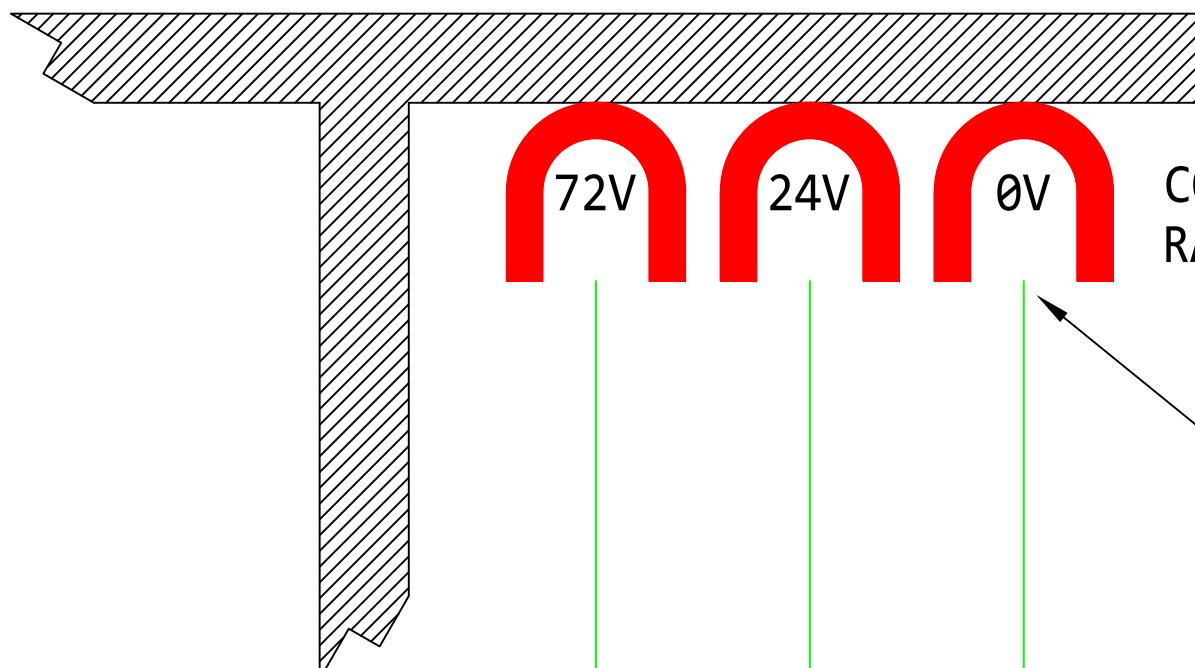
DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

CONDUCTIVE RAIL MODULE  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAILS - OVERVIEW

REV	SECT.	OVERVIEW	JOB#
PREV.			BG 125359-01
SHEET	90		
NEXT	91		DWG SPS-90

SIDE A

BEAM CROSS SECTION: SIDE  
NEAREST OPERATOR STATION



CONDUCTIVE  
RAILS

USE CONDUCTIX COPPER LUGS  
(BG 115810) TO ATTACH  
WIRE TO RAILS

SPS CABINET

GREEN  
BLACK  
WHITE

FILTERED 0V  
1652  
(FILTERED 24V)  
FU1650 (72V)

3-CONDUCTOR 16-AWG SOOW CABLE  
CABLE ID: CBL-91-1

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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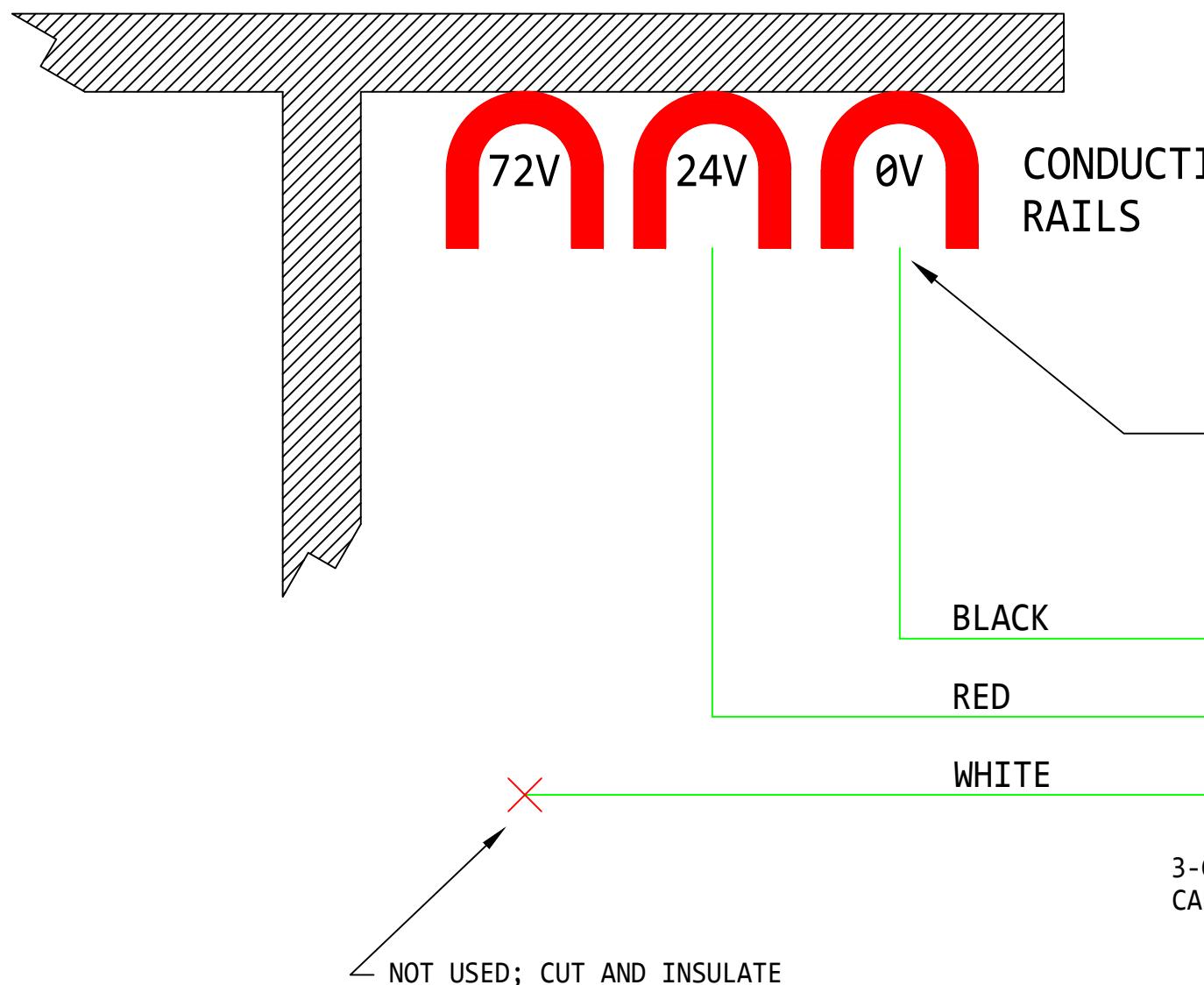
DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

CONDUCTIVE RAIL MODULE  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - POWER - SIDE A

REV A  
SECT. PREV. 90  
DETAIL SHEET 91  
JOB# BG 125359-01  
DWG SPS-91  
NEXT 92

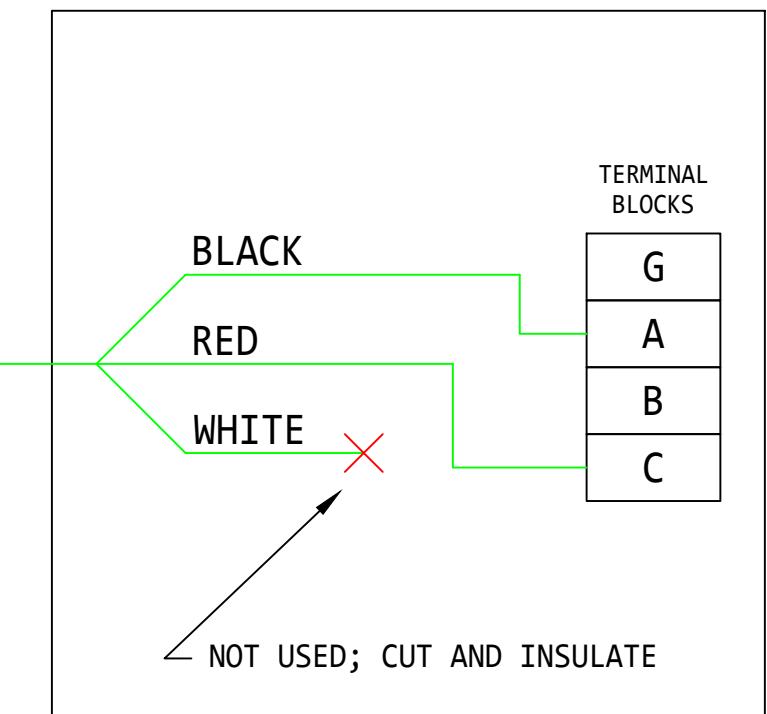
SIDE A

## BEAM CROSS SECTION: SIDE OPPOSITE OPERATOR STATION



**NOTE:** The Conductix terminating resistor enclosure (BG 115813) comes with a cable pre-installed. Remove this cable before installing CBL-92-1.

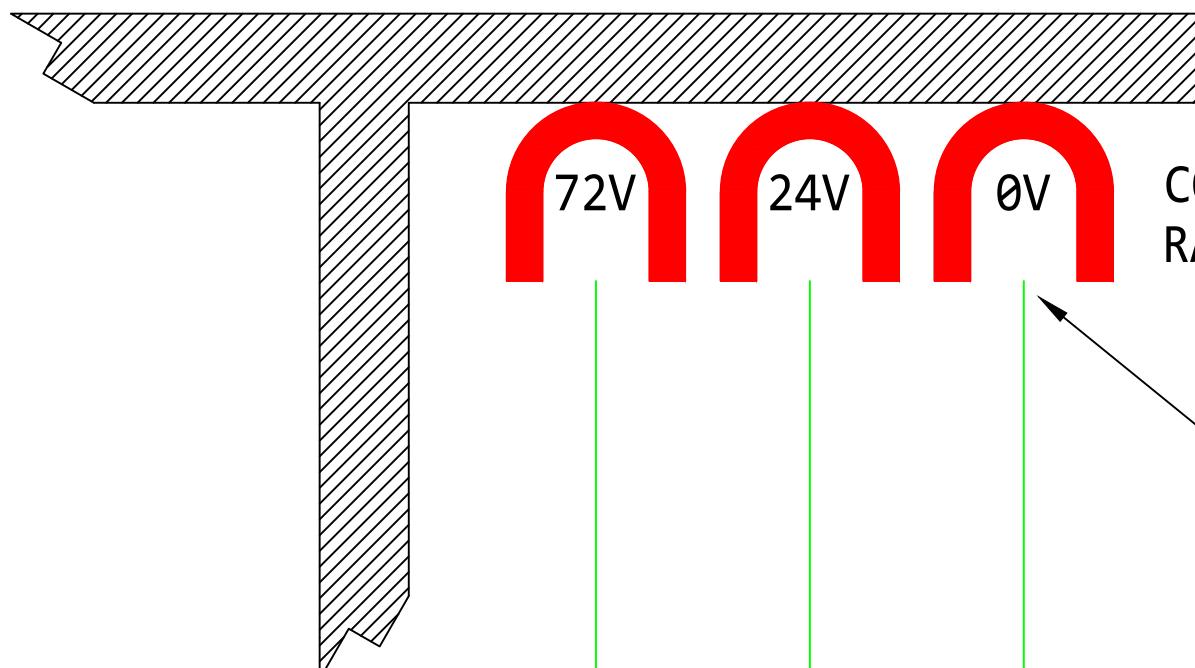
## CONDUCTIX TERMINATING RESISTOR ENCLOSURE



EL PASO 124914-06 rev:A

SIDE B

I-BEAM CROSS SECTION: SIDE  
NEAREST OPERATOR STATION



CONDUCTIVE  
RAILS

USE CONDUCTIX COPPER LUGS  
(BG 115810) TO ATTACH  
WIRE TO RAILS

SPS CABINET

GREEN  
BLACK  
WHITE

FILTERED 0V  
1652  
(FILTERED 24V)  
FU1660 (72V)

3-CONDUCTOR 12-AWG SOOW CABLE  
CABLE ID: CBL-93-1

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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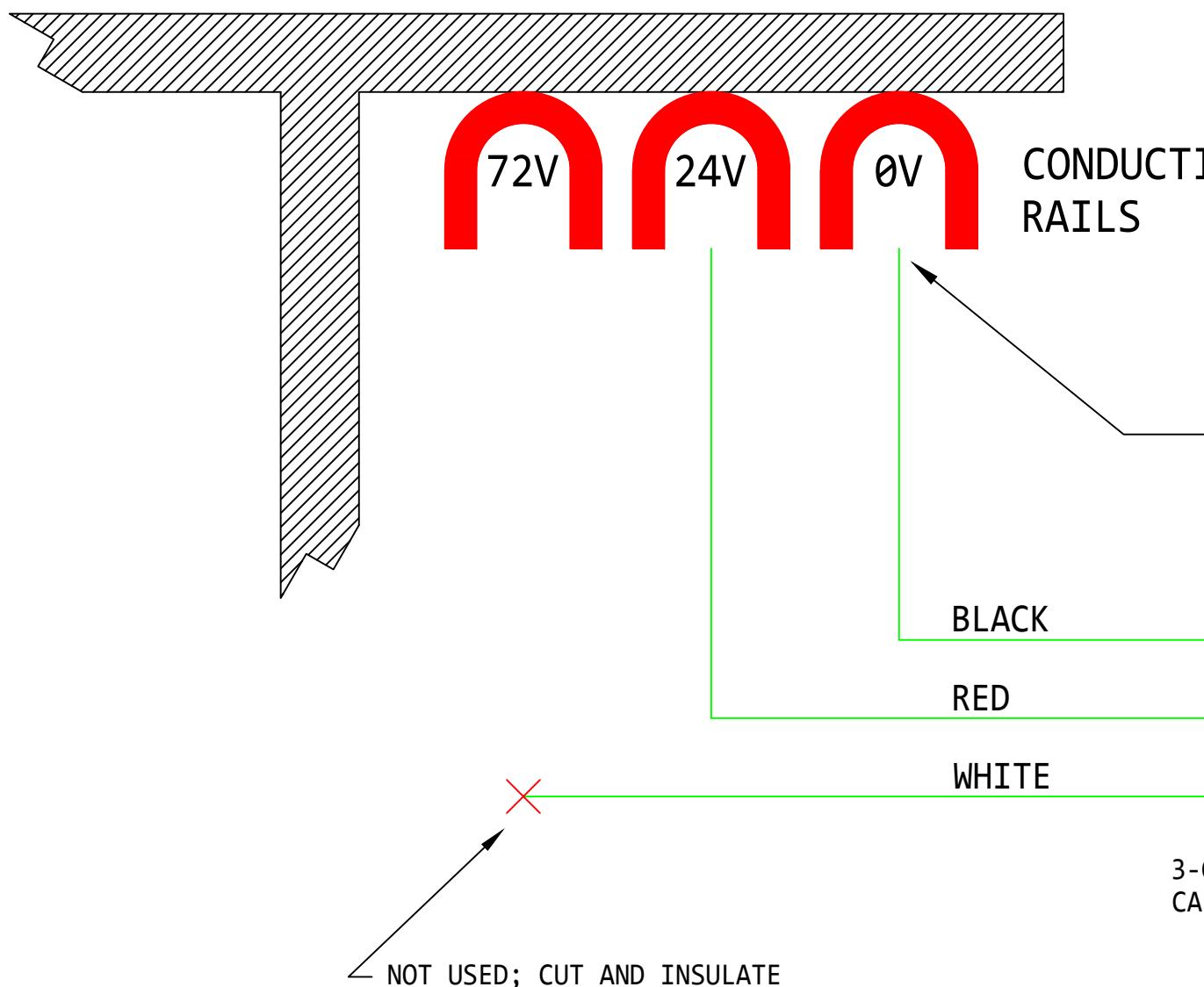
DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

CONDUCTIVE RAIL MODULE  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - POWER - SIDE B

REV	SECT.	DETAIL	JOB#
A	PREV.	92	BG 125359-01
	SHEET	93	SPS-93
	NEXT	94	

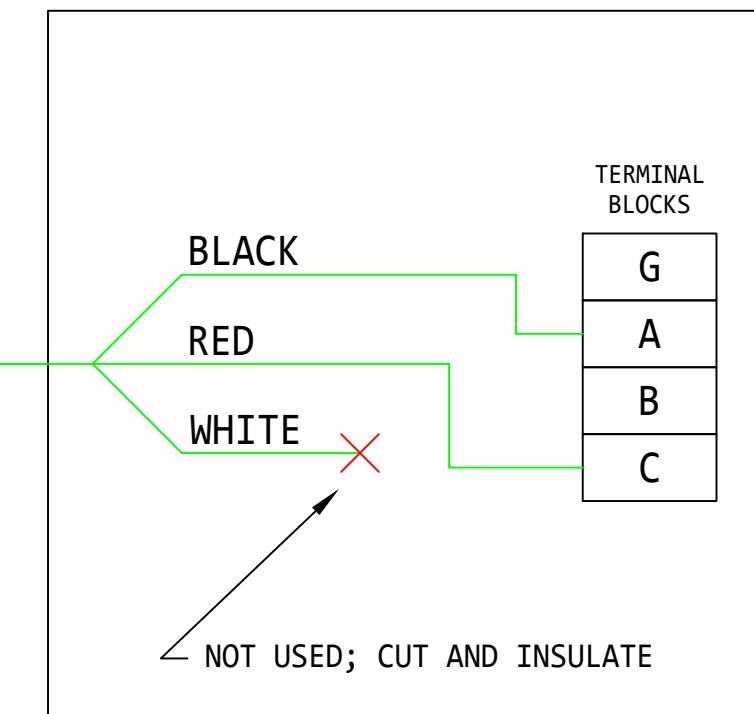
SIDE B

## I-BEAM CROSS SECTION: SIDE OPPOSITE OPERATOR STATION



**NOTE:** The Conductix terminating resistor enclosure (BG 115813) comes with a cable pre-installed. Remove this cable before installing CBL-94-1.

## CONDUCTIX TERMINATING RESISTOR ENCLOSURE



EL PASO 124914-06 rev:A

1 2 3 4 5 6 7 8

A

B

C

D

A

B

C

D

SIDE A

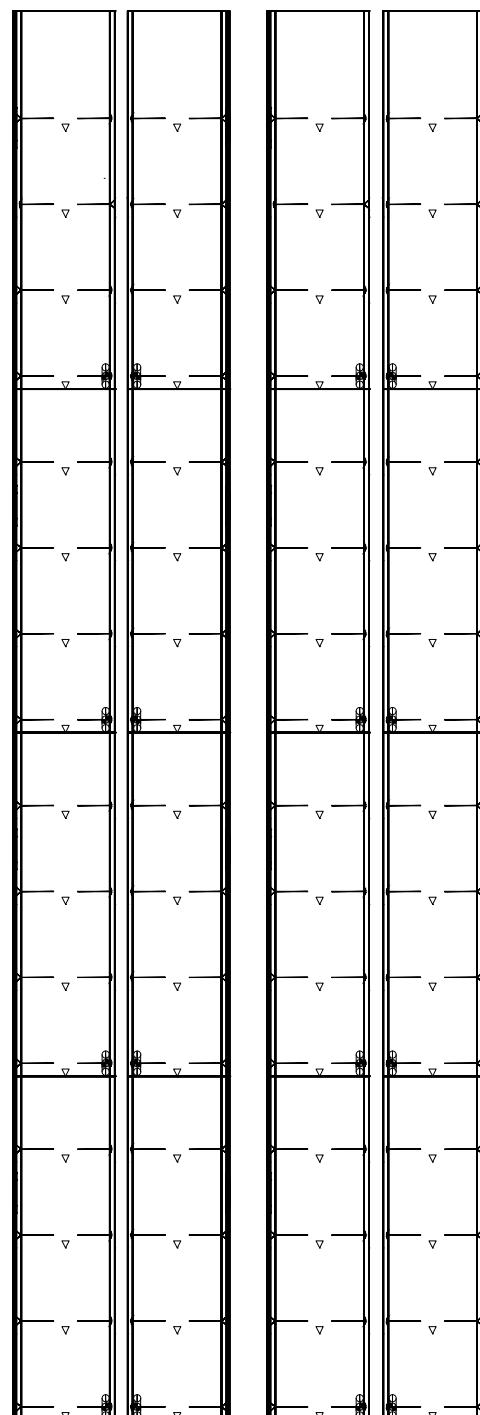
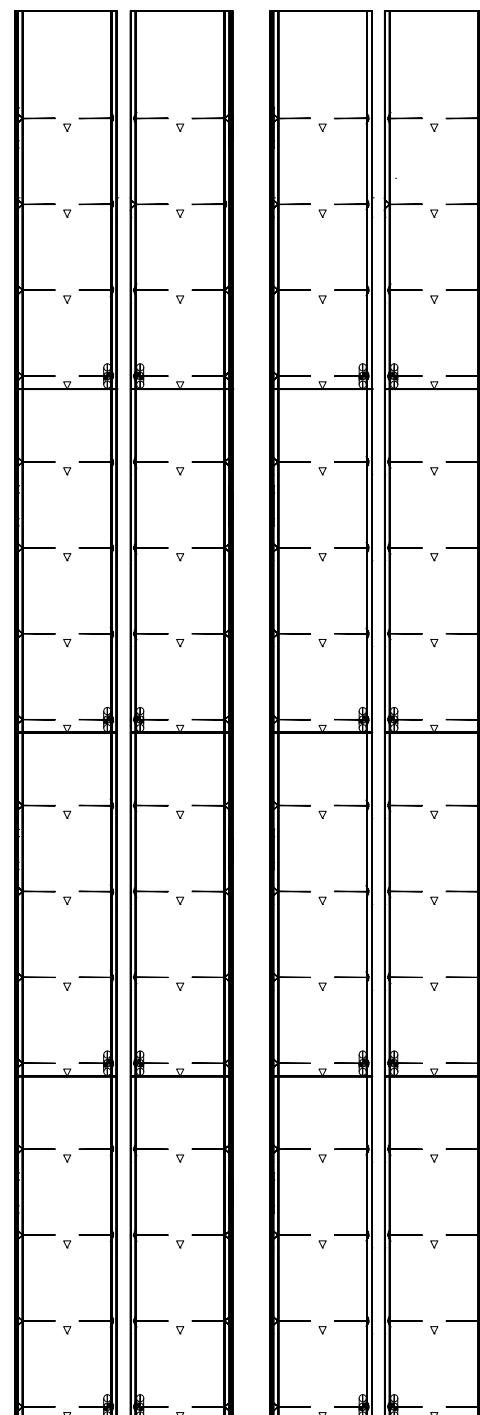
PICK  
STATION  
STACK  
LIGHT

SPS  
CABINET

AISLE  
STACK  
LIGHT

CBL-102-1

SIDE B



EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



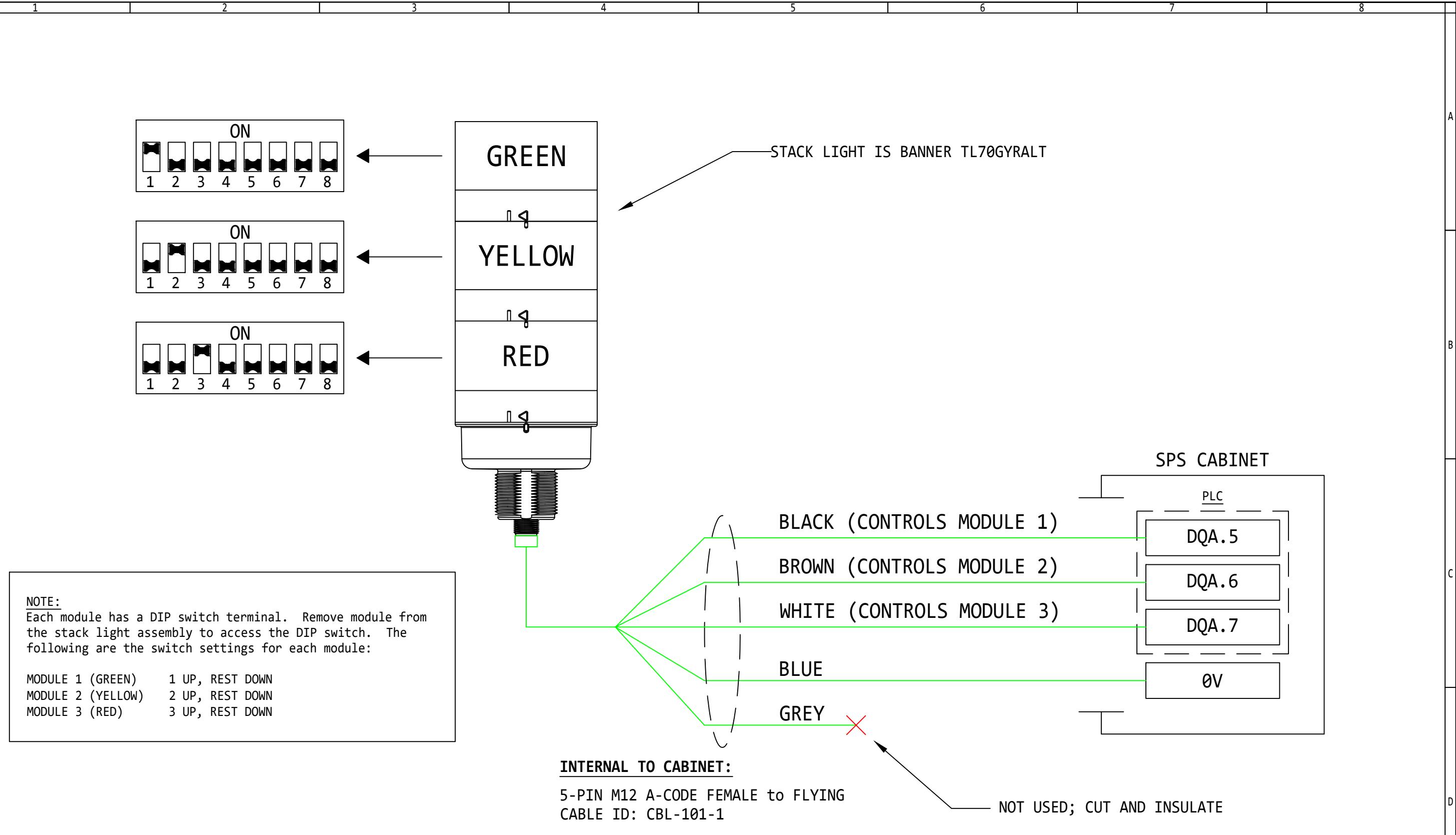
BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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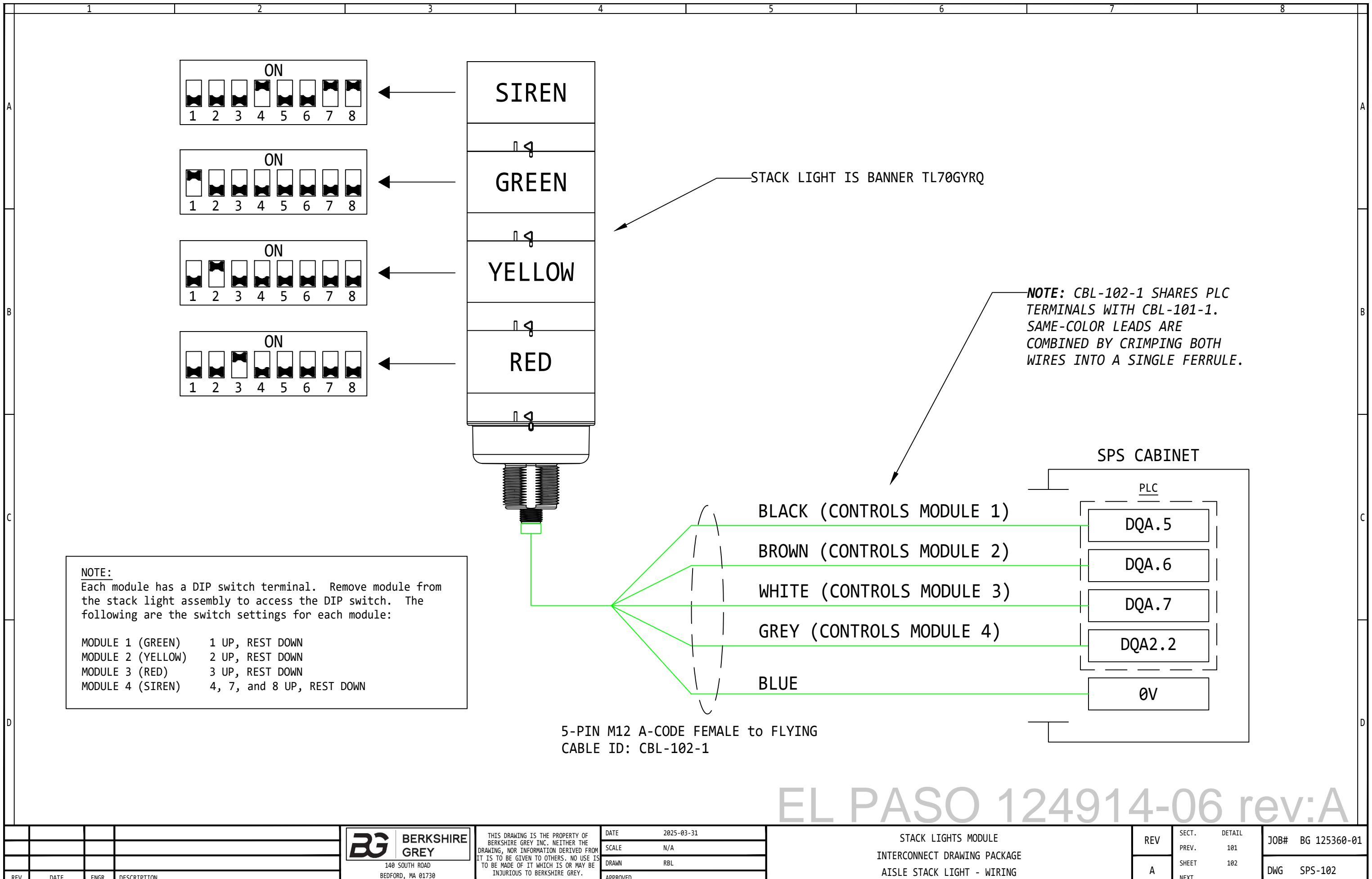
DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

STACK LIGHTS MODULE  
INTERCONNECT DRAWING PACKAGE  
STACK LIGHTS - OVERVIEW

REV A  
SECT. PREV. SHEET 100  
OVERVIEW 101  
JOB# BG 125360-01  
DWG SPS-100

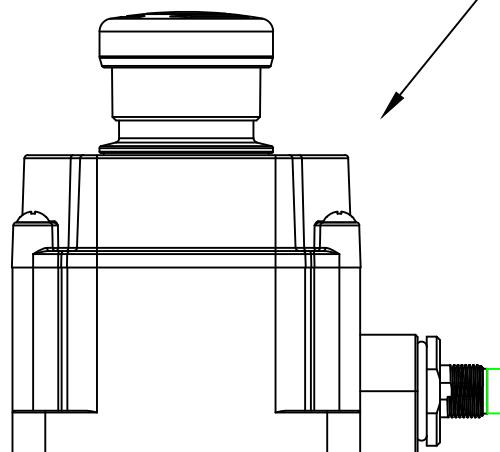


EL PASO 124914-06 rev:A



1 2 3 4 5 6 7 8

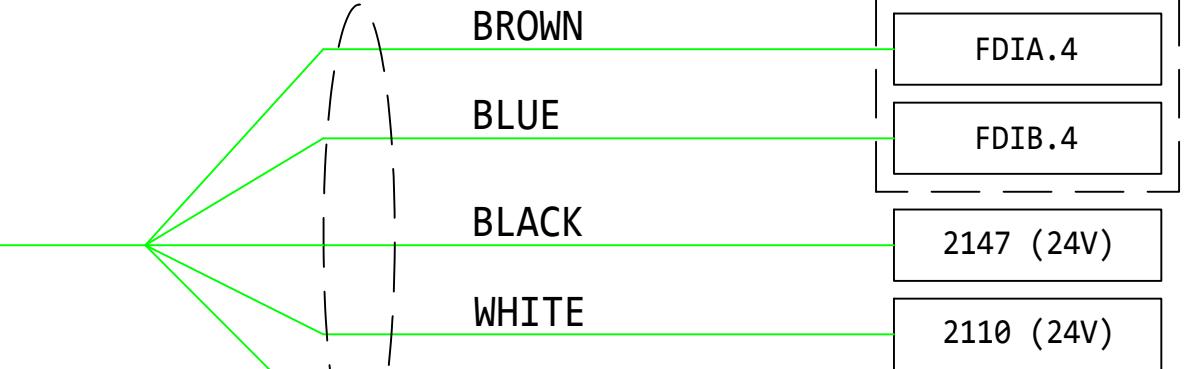
SIDE A



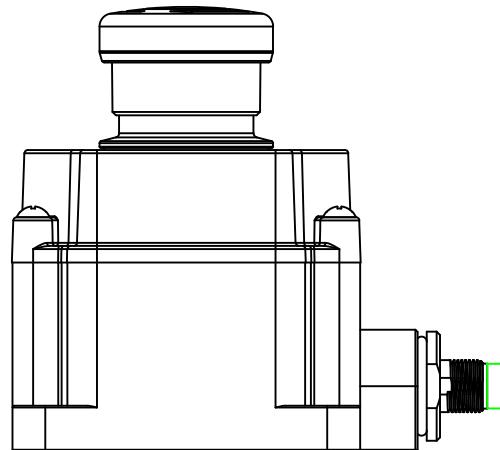
E-STOP BUTTONS ARE BANNER  
SSA-EB1P-02ED1Q4

5-PIN M12 A-CODE FEMALE to FLYING  
CABLE ID: CBL-110-1

SPS CABINET



NOT USED; CUT AND INSULATE



SIDE B



5-PIN M12 A-CODE FEMALE to FLYING  
CABLE ID: CBL-110-2

NOT USED; CUT AND INSULATE

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REV	DATE	ENGR.	DESCRIPTION							SPS-110

1 2 3 4 5 6 7 8

A

A

B

B

C

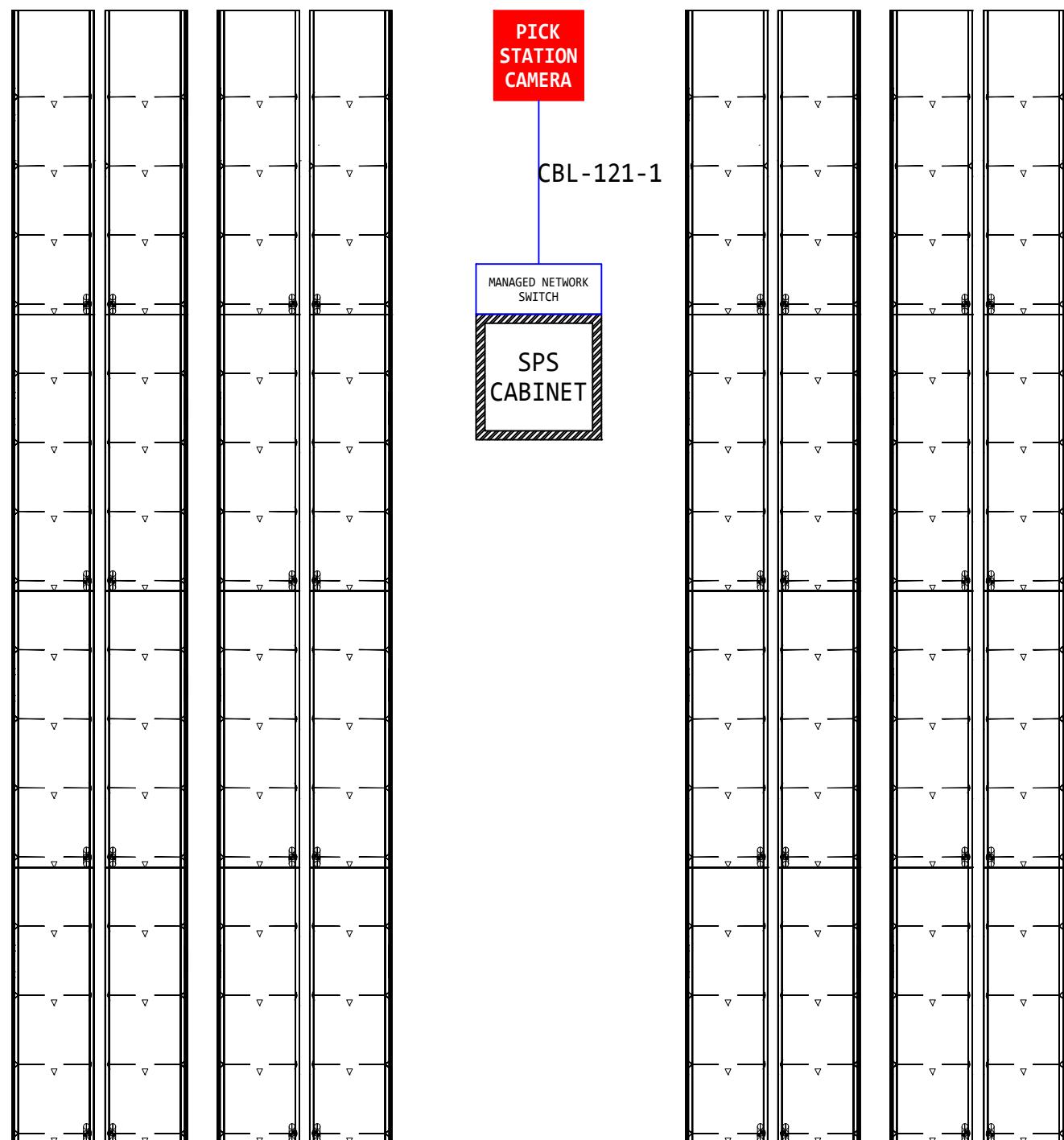
C

D

D

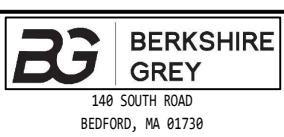
SIDE A

SIDE B



EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

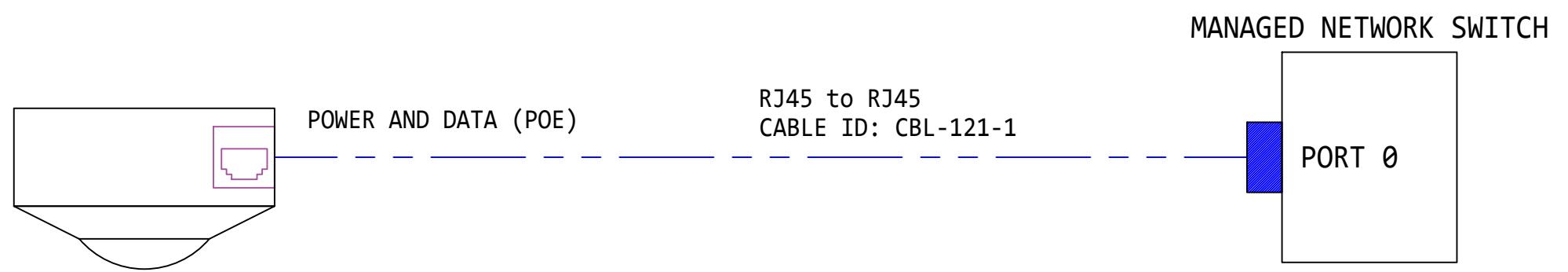


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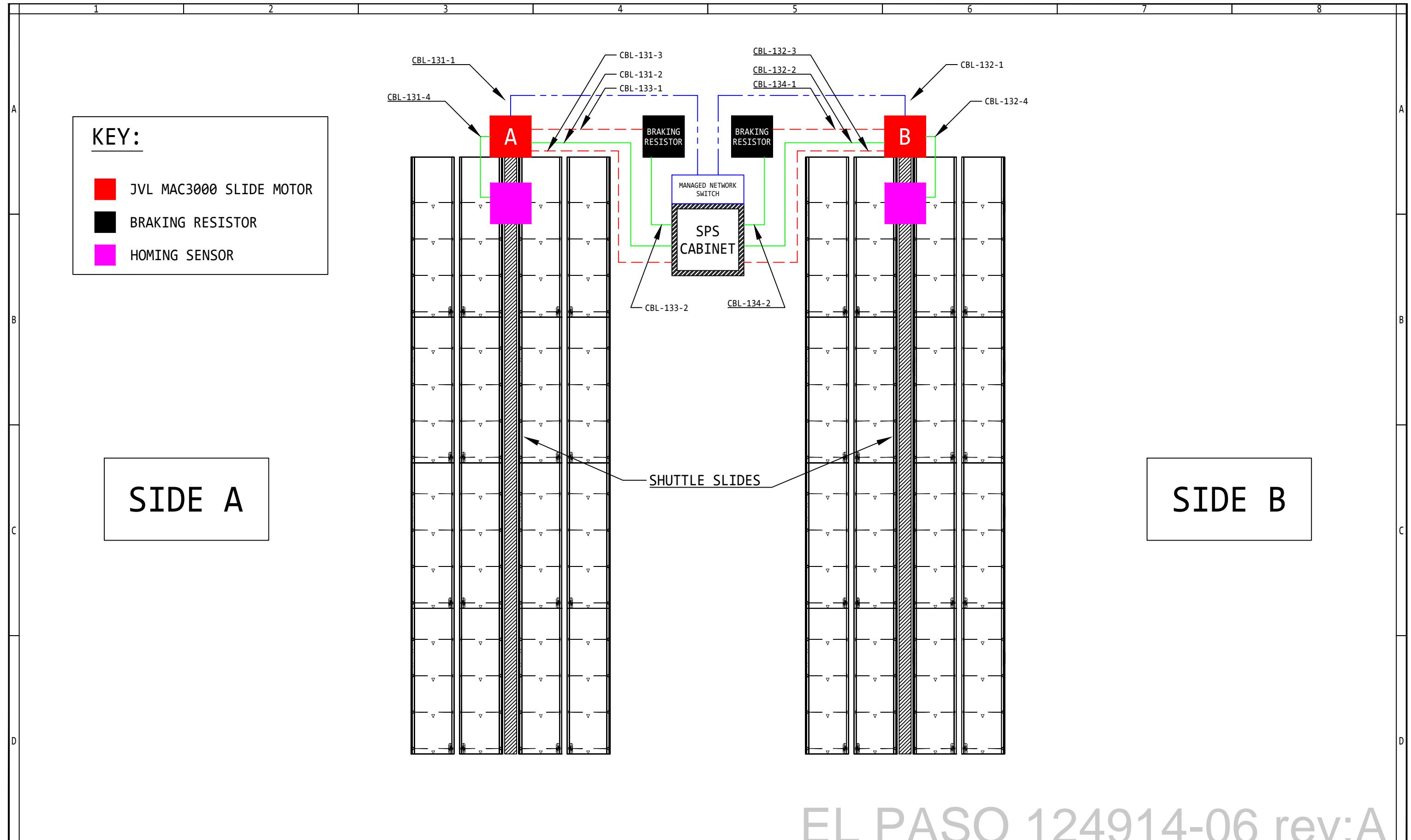
DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

AXIS CAMERA MODULE  
INTERCONNECT DRAWING PACKAGE  
PICK STATION AXIS CAMERA - WIRING

REV	SECT.	DETAIL	JOB#
A	SHEET	120	BG 125362-01
	NEXT	121	SPS-120

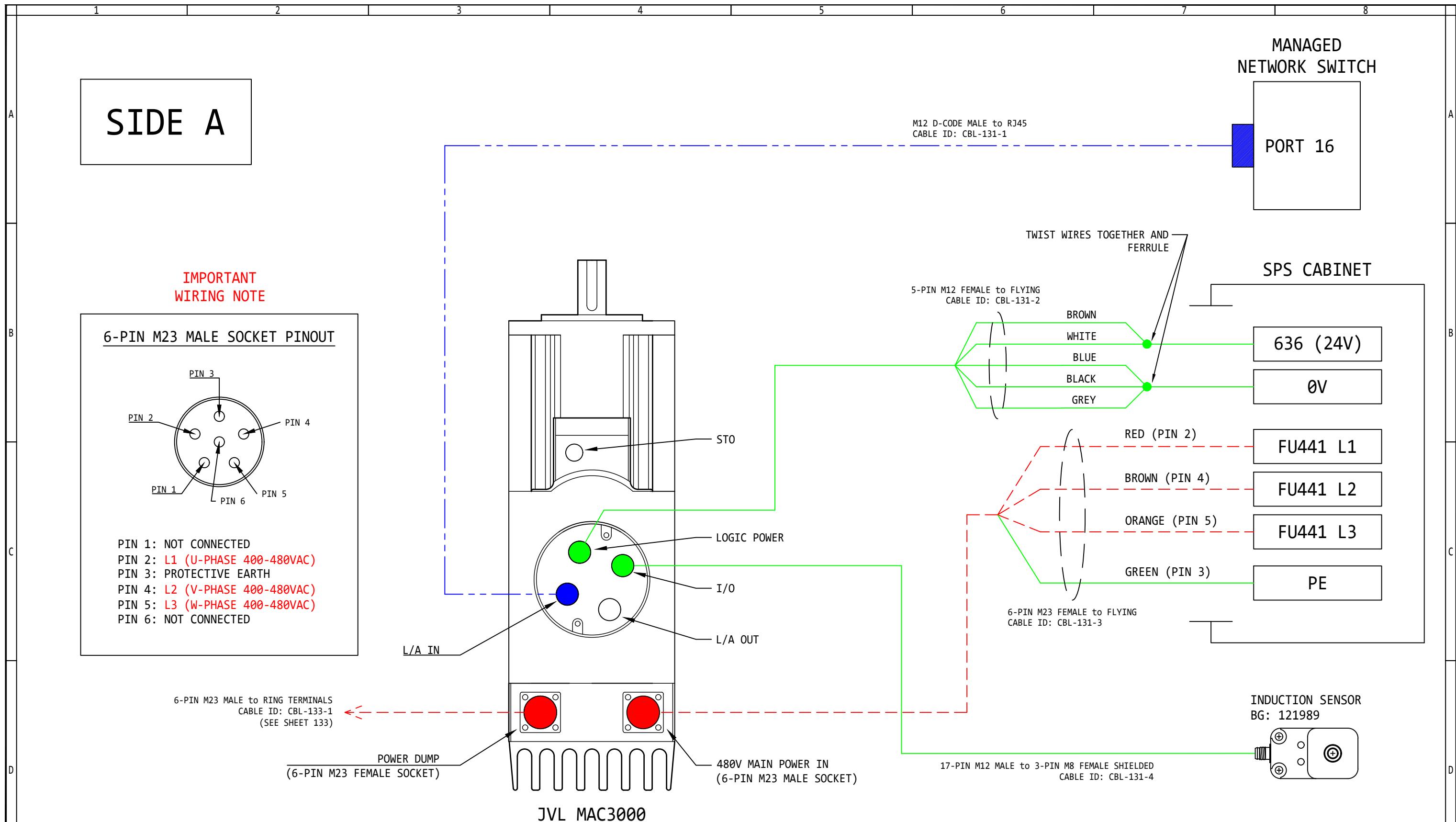


EL PASO 124914-06 rev:A



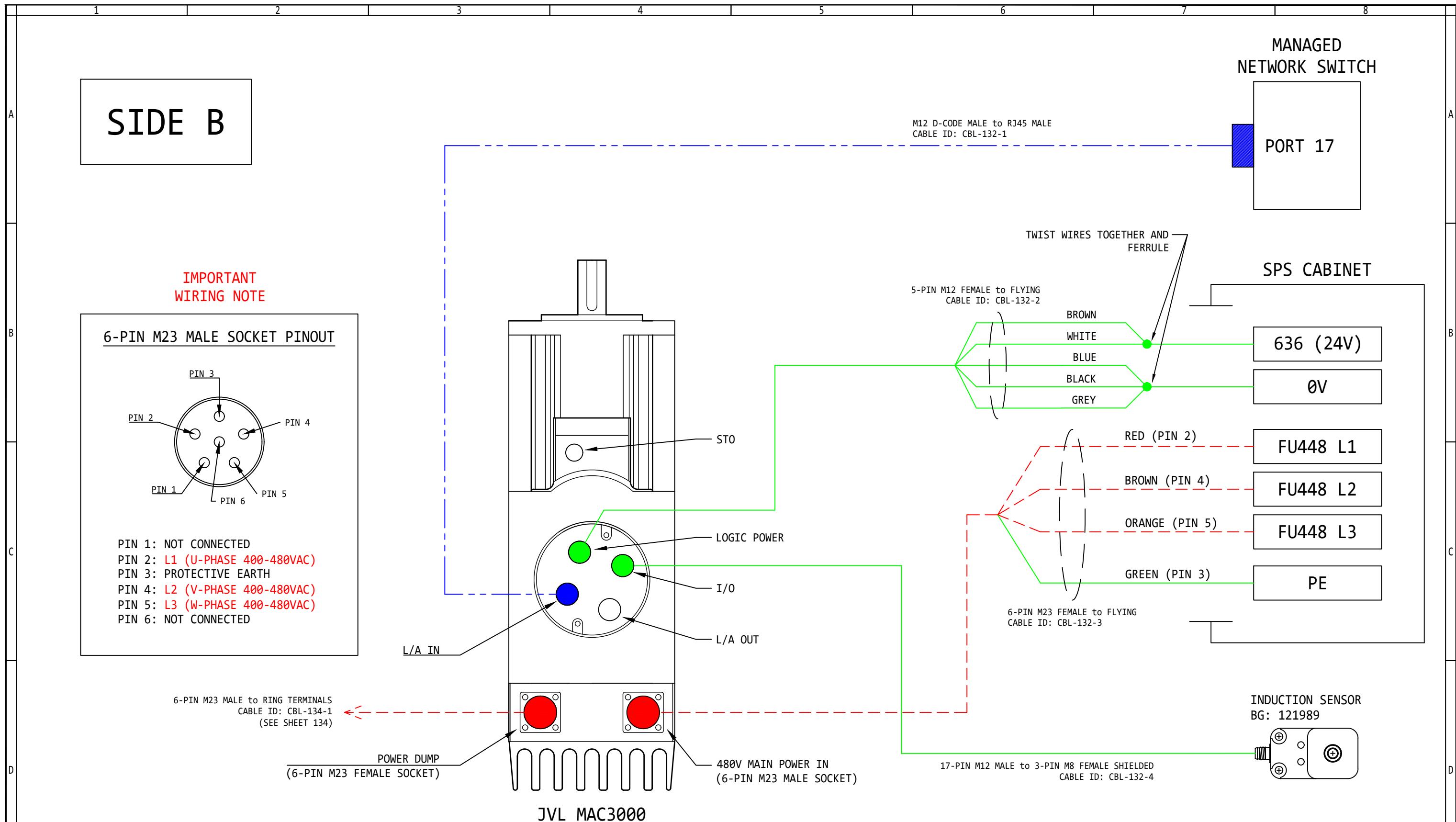
EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION	BERKSHIRE GREY	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31	SCALE N/A	DRAWN RBL	APPROVED	SLIDE MOTOR MODULE INTERCONNECT DRAWING PACKAGE SLIDE MOTORS - OVERVIEW	REV A	SECT. OVERVIEW PREV. SHEET NEXT	JOB# BG 125363-01
				140 SOUTH ROAD BEDFORD, MA 01730								130 131	SPS-130



EL PASO 124914-06 rev:A

				<b>BG</b>   <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE	2025-03-31	SLIDE MOTOR MODULE  INTERCONNECT DRAWING PACKAGE  SLIDE MOTOR WIRING - SIDE A	REV  A	SECT.	DETAIL	JOB# BG 125363-01
						SCALE	N/A			PREV.	130	
					DRAWN	RBL	APPROVED			SHEET	131	
REV	DATE	ENGR.	DESCRIPTION							NEXT	132	DWG SPS-131

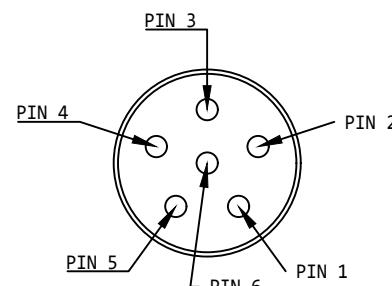


EL PASO 124914-06 rev:A

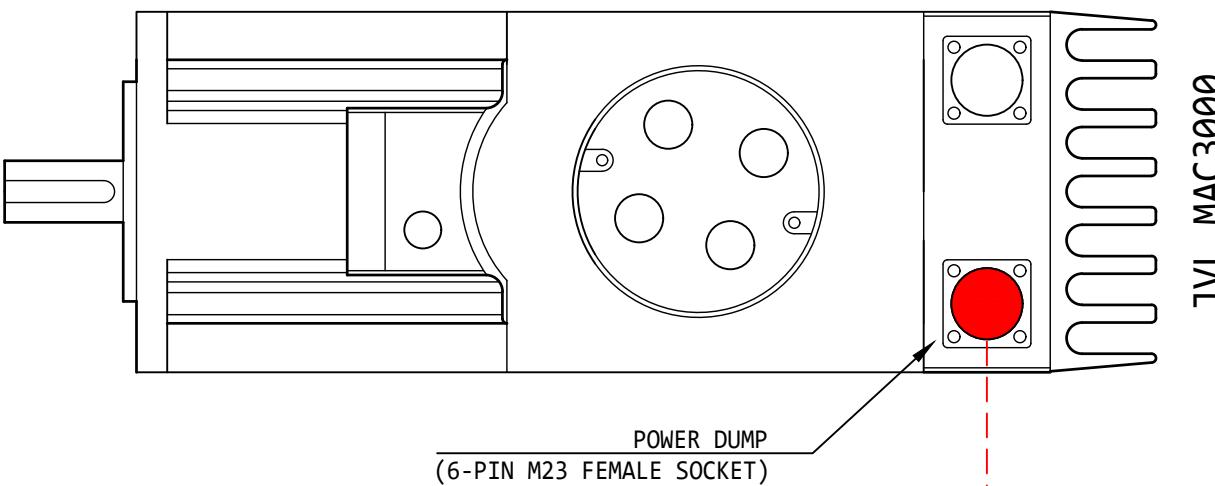
SIDE A

**IMPORTANT  
WIRING NOTE**

6-PIN M23 FEMALE SOCKET PINOUT



PIN 1: PD (POWER DUMP OUTPUT)  
PIN 2: BO (BUS OUT 560-680VDC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: NOT CONNECTED  
PIN 5: NOT CONNECTED  
PIN 6: CM (COMMON / BUS GND)

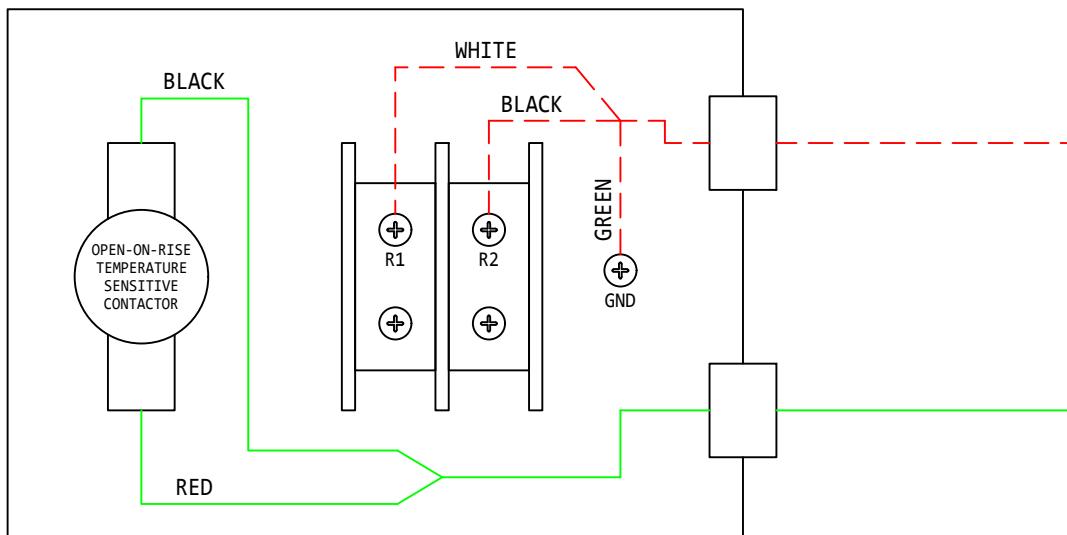


JVL MAC3000

POWER DUMP  
(6-PIN M23 FEMALE SOCKET)

M23 MALE to RING TERMINALS  
CABLE ID: CBL-133-1

Note: this is a custom BG cable, PN 114382



BRAKING RESISTOR  
MFR: POWEROHM PF40R1K60

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

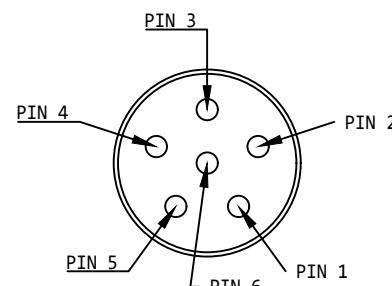
SLIDE MOTOR MODULE  
INTERCONNECT DRAWING PACKAGE  
BRAKING RESISTOR WIRING - SIDE A

REV	SECT. PREV.	DETAIL	JOB#
A	132	133	BG 125363-01
	SHEET		SPS-133
	NEXT	134	DWG

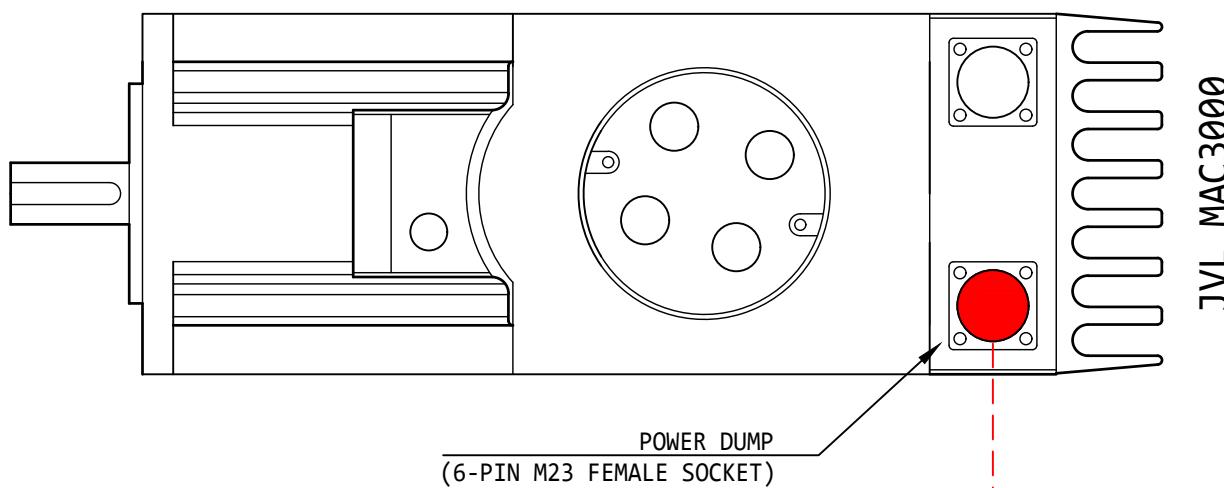
SIDE B

**IMPORTANT  
WIRING NOTE**

**6-PIN M23 FEMALE SOCKET PINOUT**



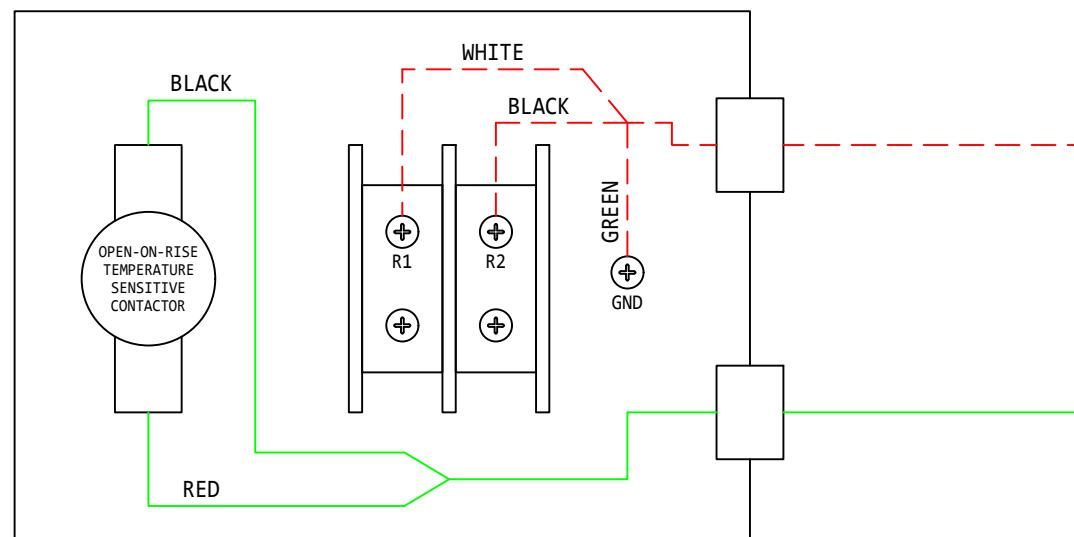
PIN 1: PD (POWER DUMP OUTPUT)  
PIN 2: BO (BUS OUT 560-680VDC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: NOT CONNECTED  
PIN 5: NOT CONNECTED  
PIN 6: CM (COMMON / BUS GND)



JVL MAC3000

M23 MALE to RING TERMINALS  
CABLE ID: CBL-134-1

Note: this is a custom BG cable, PN 114382



**BRAKING RESISTOR**

MFR: POWEROHM PF40R1K60

2-CONDUCTOR FLYING to FLYING  
CABLE ID: CBL-134-2

SPS CABINET

2147

PLC

FDIB1.7

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REV	DATE	ENGR.	DESCRIPTION										DWG SPS-134

1 2 3 4 5 6 7 8

A

B

C

D

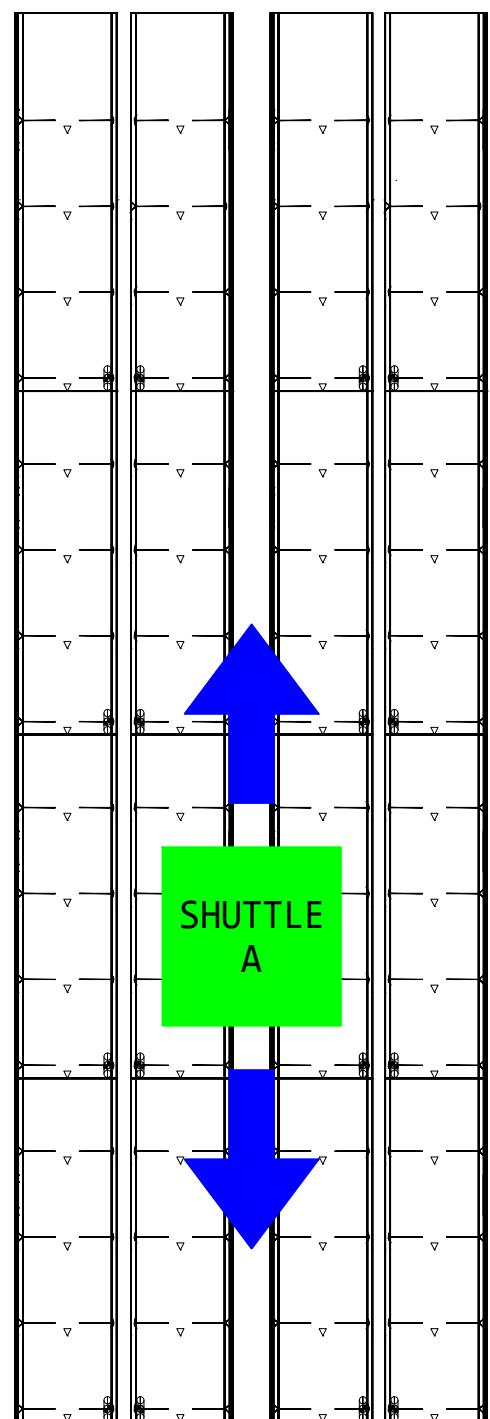
A

B

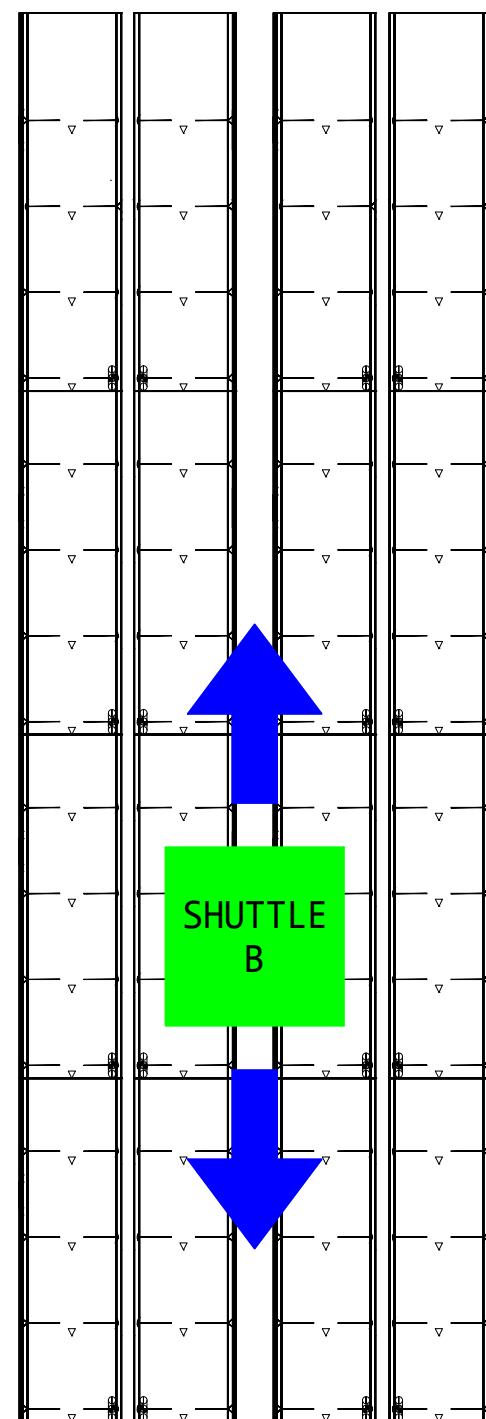
C

D

SIDE A



SPS  
CABINET



SIDE B

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

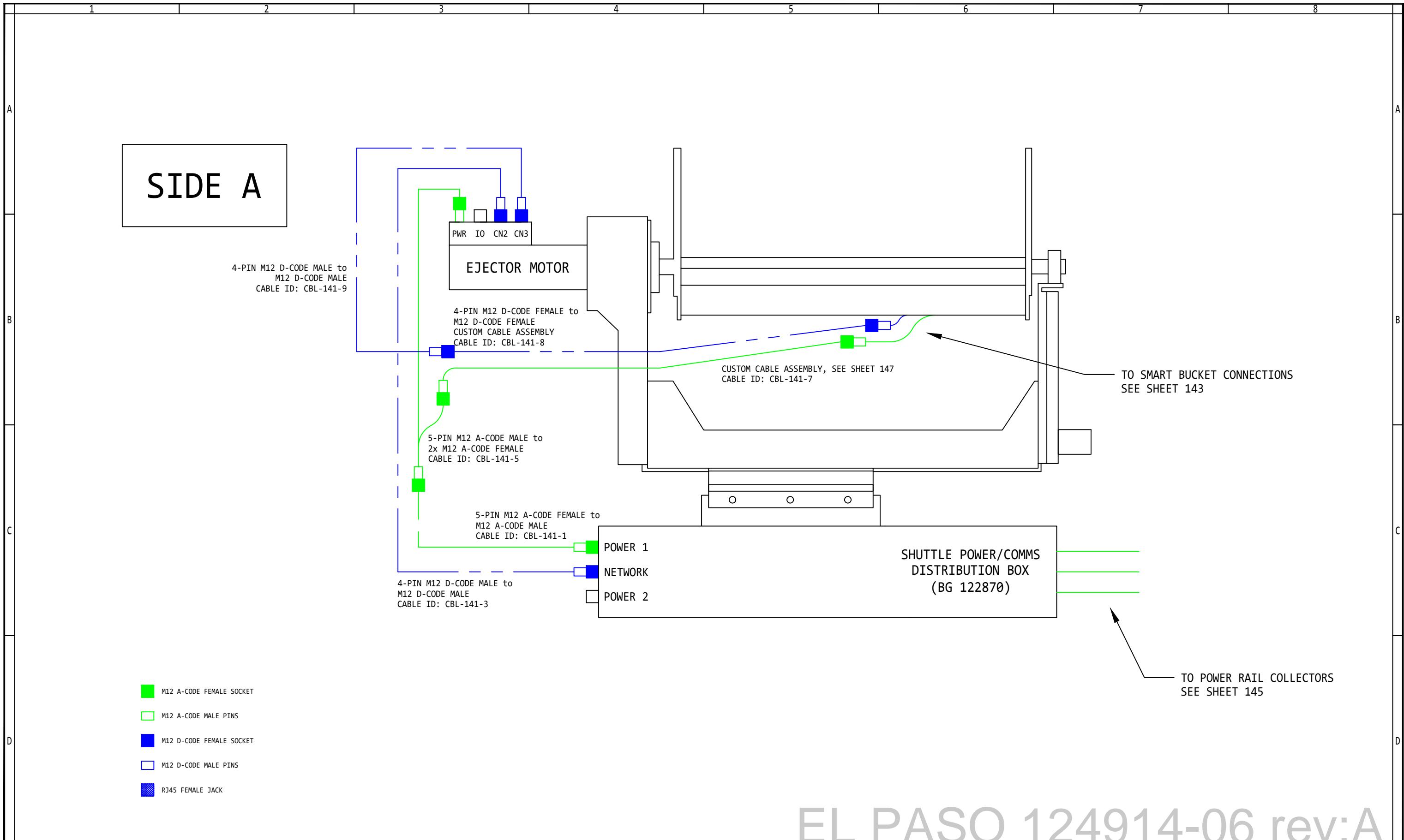


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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

SHUTTLE MODULE  
INTERCONNECT DRAWING PACKAGE  
SHUTTLES - OVERVIEW

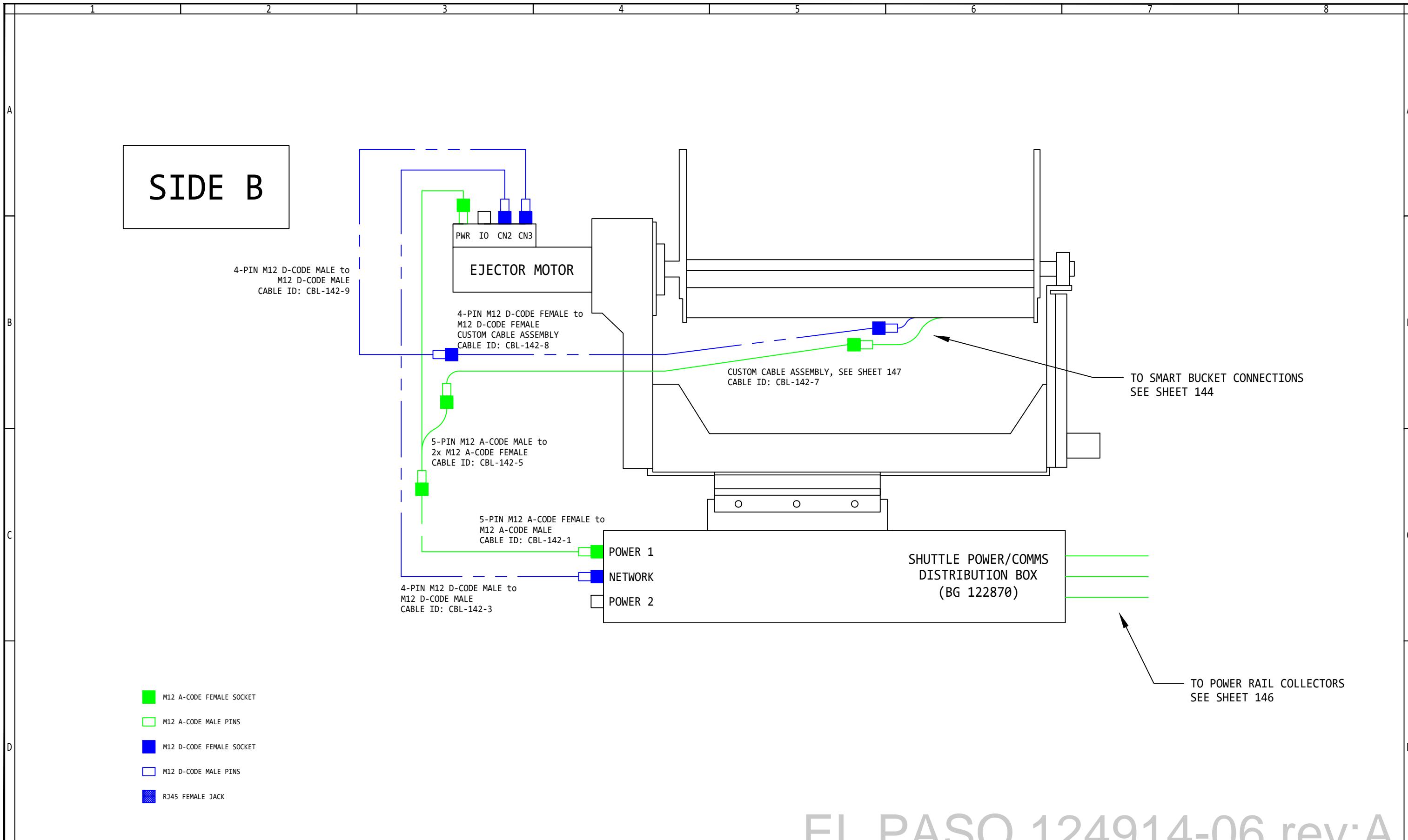
REV A SECT. OVERVIEW PREV. SHEET 140 NEXT 141 JOB# BG 123564-01 DWG SPS-140



EL PASO 124914-06 rev:A

				<b>BG</b> <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.  DATE 2025-03-31 SCALE N/A DRAWN RBL APPROVED	SHUTTLE MODULE INTERCONNECT DRAWING PACKAGE SHUTTLE WIRING - SIDE A WITH SMART BUCKET	REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION				A	PREV.	140	BG 123564-01
								SHEET	141	SPS-141
								NEXT	142	

1 2 3 4 5 6 7 8

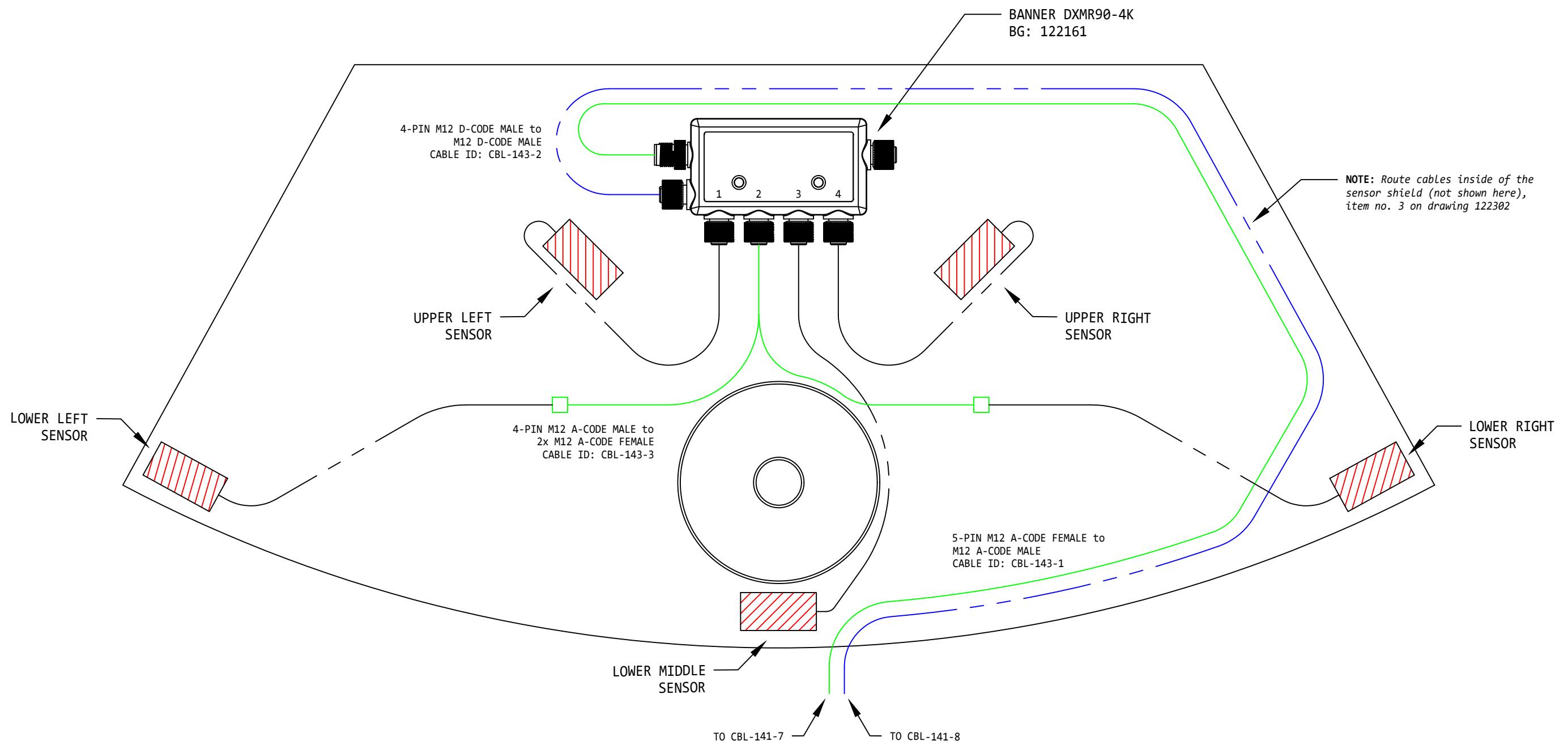


EL PASO 124914-06 rev:A

				<b>BG</b> <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY. DATE 2025-03-31 SCALE N/A DRAWN RBL APPROVED	SHUTTLE MODULE INTERCONNECT DRAWING PACKAGE SHUTTLE WIRING - SIDE B WITH SMART BUCKET	REV A	SECT.	DETAIL	JOB# BG 123564-01	
REV	DATE	ENGR.	DESCRIPTION					PREV.	141	SHEET	SPS-142
								NEXT	143	DWG	SPS-142

## SIDE A

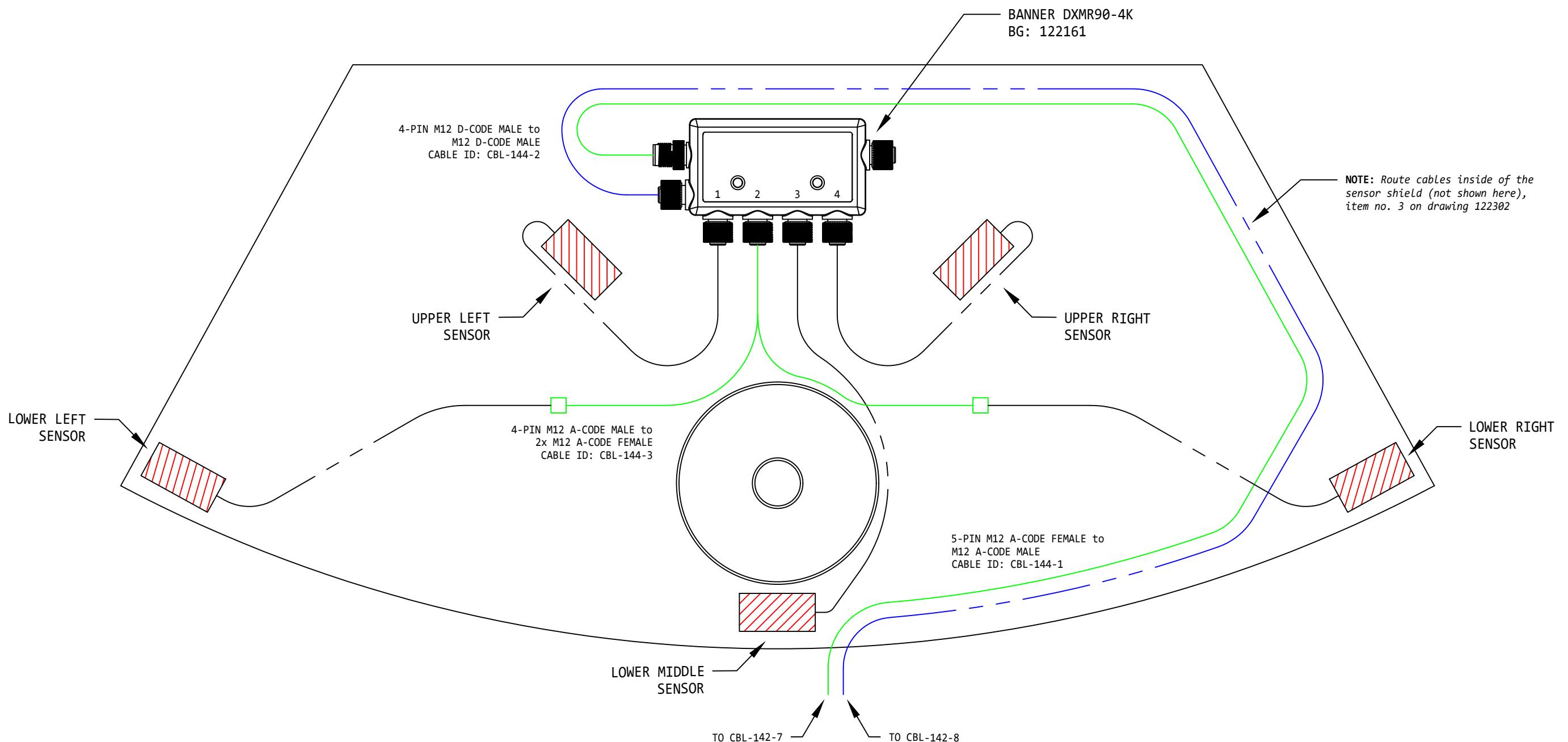
**NOTE:** Refer to drawing BG 122302 for details of mechanical installation



— 10 CBL-141-8  
EL PASO 124914-06 rev:A

# SIDE B

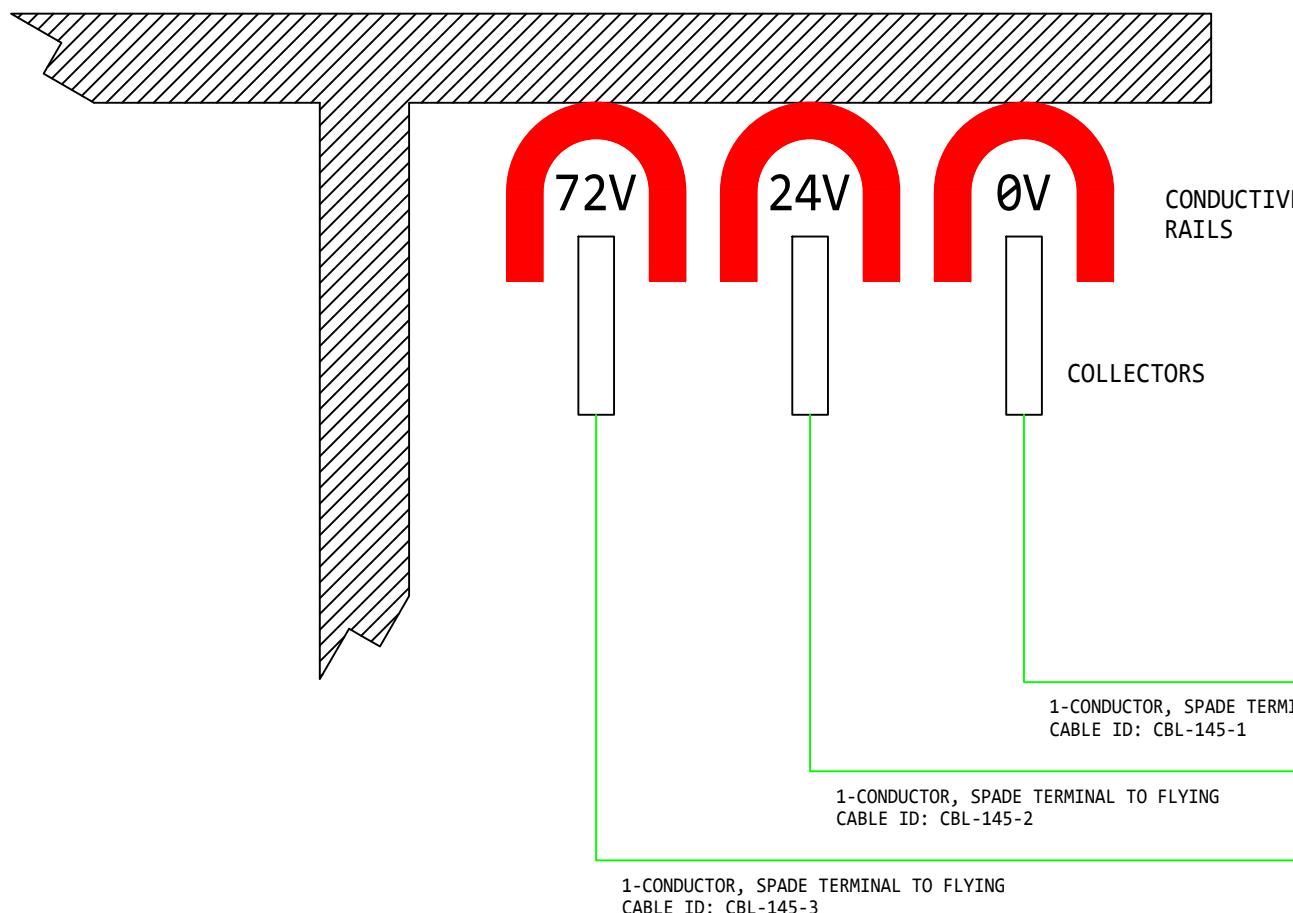
**NOTE:** Refer to drawing BG 122302 for details of mechanical installation



# EL PASO 124914-06 rev:A

## SIDE A

BEAM CROSS SECTION



**NOTE:** Refer to drawing BG 122870 for the Shuttle Power/Comms Distribution Box electrical schematic

**NOTE:** Pull cables through shuttle box cord grip until minimal slack remains

SHUTTLE POWER/COMMS DISTRIBUTION BOX

0V INPUT

24V INPUT

72V INPUT

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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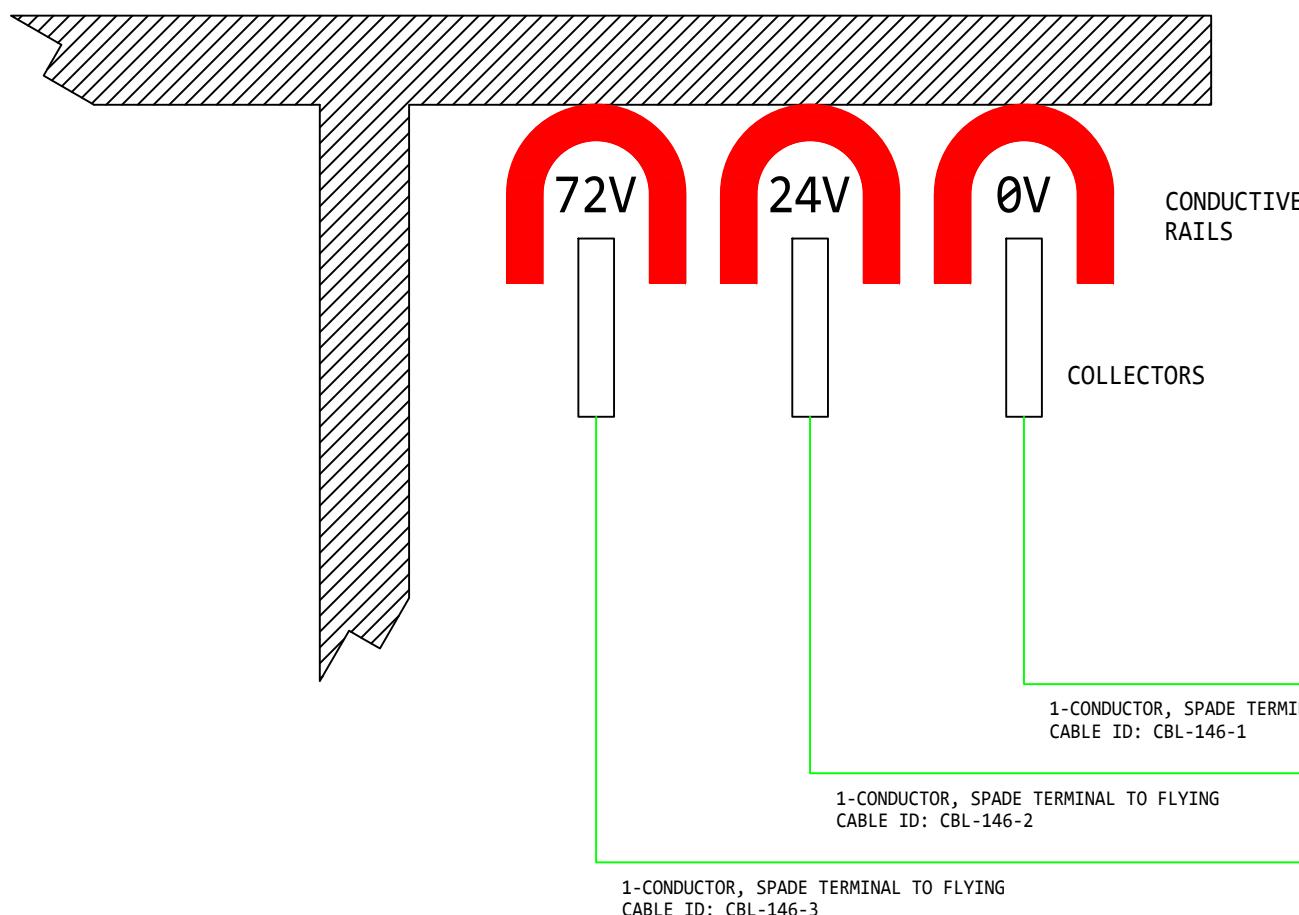
DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

SHUTTLE MODULE  
INTERCONNECT DRAWING PACKAGE  
SHUTTLE POWER BOX WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	144	BG 123564-01
A	SHEET	145	
	NEXT	146	SPS-145

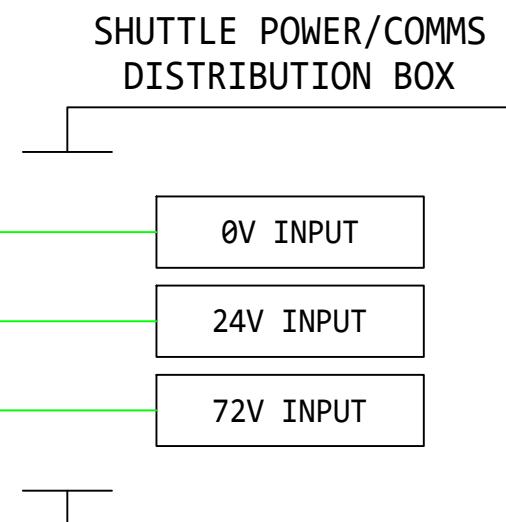
SIDE B

## BEAM CROSS SECTION



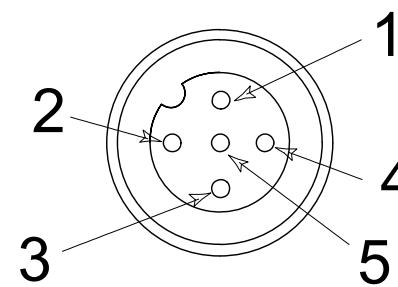
**NOTE:** Refer to drawing BG 122870 for the Shuttle Power/Comms Distribution Box electrical schematic

**NOTE:** Pull cables through shuttle box cord grip until minimal slack remains

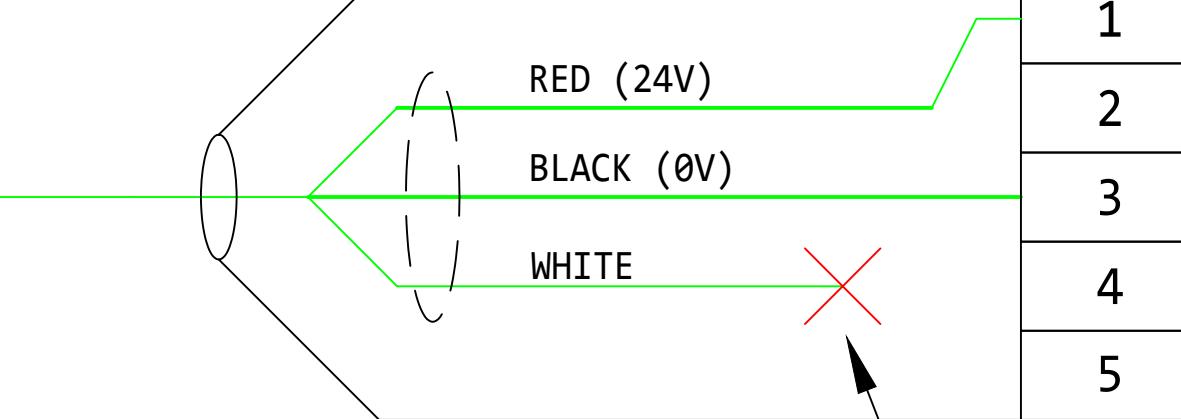


EL PASO 124914-06 rev:A

BOTH SIDES



M12 5-PIN A-CODE FEMALE  
FIELD WIREABLE (BG 122363)

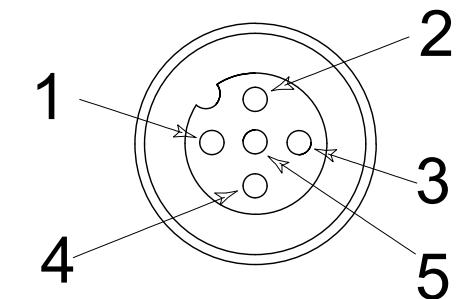


NOT USED; CUT  
AND INSULATE

1
2
3
4
5

WHITE  
BLACK (0V)  
RED (24V)

NOTE: This is a coiled,  
3-conductor, flying-to-flying  
cable. Cut to length as  
specified in the mechanical  
drawings (BG 122302).



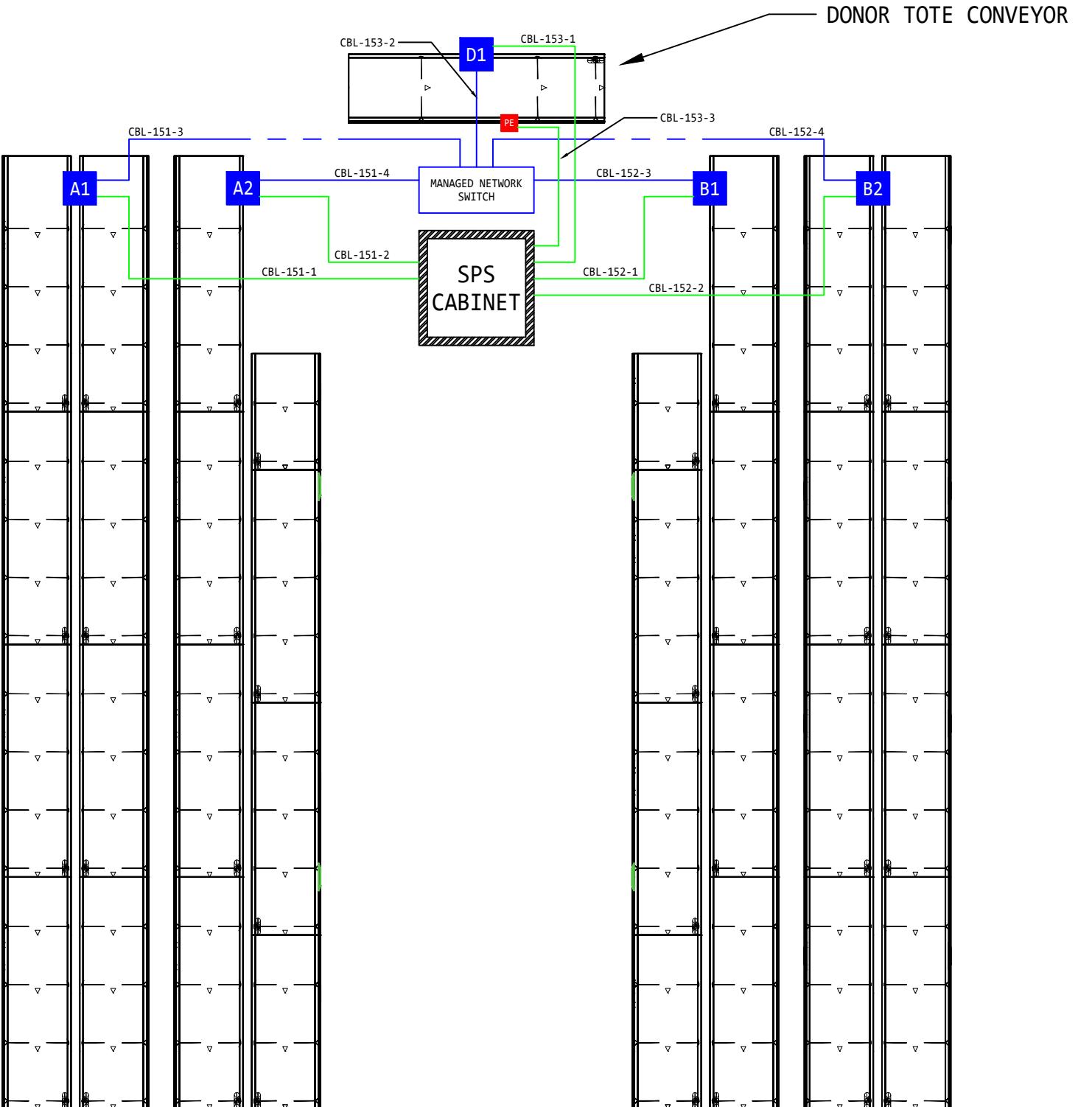
M12 5-PIN A-CODE MALE  
FIELD WIREABLE (BG 122364)

REV	SECT.	DETAIL	JOB#
146	PREV.	146	BG 123564-01
147	SHEET	147	SPS-147

1	2	3	4	5	6	7	8			
A					A					
C					C					
D					D					
REV	DATE	ENGR.	DESCRIPTION	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31 SCALE N/A DRAWN RBL APPROVED	SHUTTLE MODULE INTERCONNECT DRAWING PACKAGE BUCKET SENSOR WIRING - REFERENCE	REV A	SECT. PREV. 146 SHEET 147 NEXT	DETAIL 146 Dwg SPS-147	JOB# BG 123564-01 Dwg SPS-147

REV	SECT.	DETAIL	JOB#
146	PREV.	146	BG 123564-01
147	SHEET	147	SPS-147

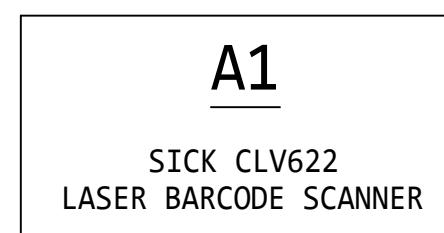
REV	SECT.	DETAIL	JOB#
146	PREV.	146	BG 123564-01
147	SHEET	147	SPS-147



EL PASO 124914-06 rev:A

**SIDE A**

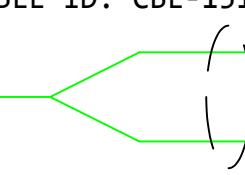
**NOTE:** All unlisted wire colors are unused. Cut the excess wire and insulate the ends.



PWR

NETWORK

12-PIN M12 A-CODE FEMALE to  
FLYING  
CABLE ID: CBL-151-1

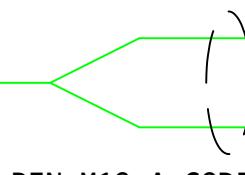


SPS CABINET

616 (24V)

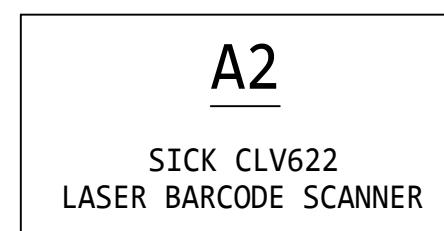
0V

12-PIN M12 A-CODE FEMALE to  
FLYING  
CABLE ID: CBL-151-2



616 (24V)

0V



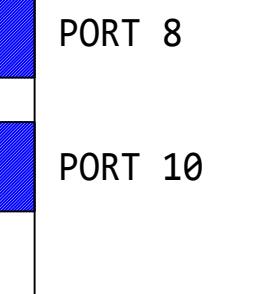
PWR

NETWORK

4-PIN M12 D-CODE MALE to RJ45  
CABLE ID: CBL-151-3

4-PIN M12 D-CODE MALE to RJ45  
CABLE ID: CBL-151-4

MANAGED NETWORK SWITCH



PORT 8

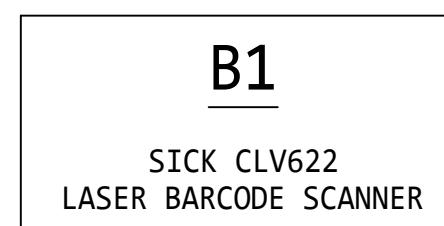
PORT 10

EL PASO 124914-06 rev:A

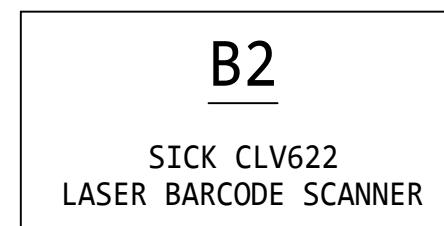
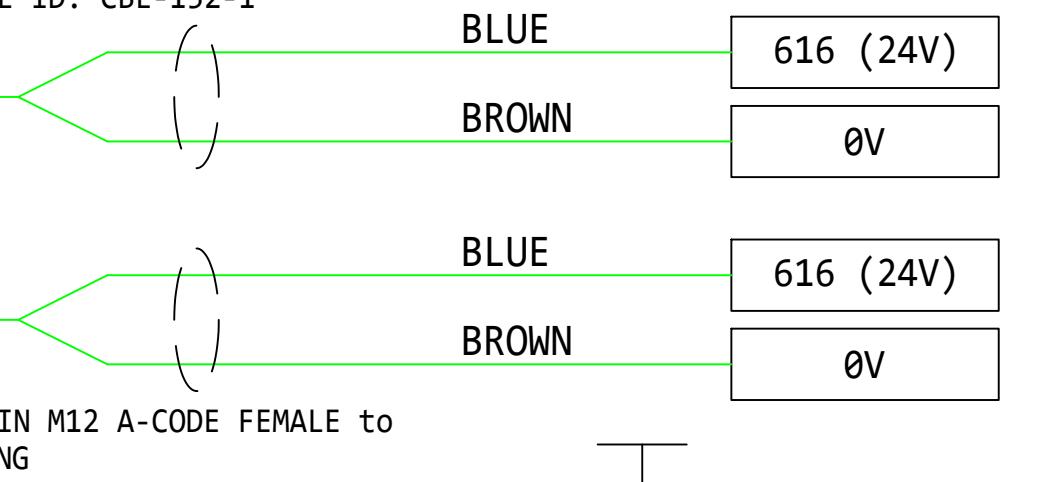
				<b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE	2025-03-31	BARCODE SCANNER MODULE INTERCONNECT DRAWING PACKAGE BARCODE SCANNER WIRING - SIDE A	REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A		A	PREV.	150	BG 125365-01
						DRAWN	RBL			SHEET	151	
						APPROVED				NEXT	152	SPS-151

**SIDE B**

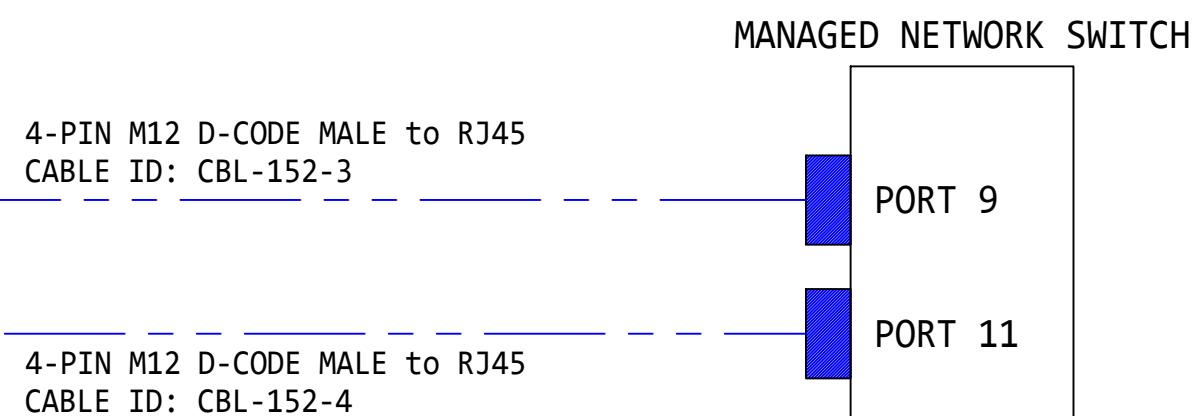
**NOTE:** All unlisted wire colors are unused. Cut the excess wire and insulate the ends.



12-PIN M12 A-CODE FEMALE to FLYING  
CABLE ID: CBL-152-1

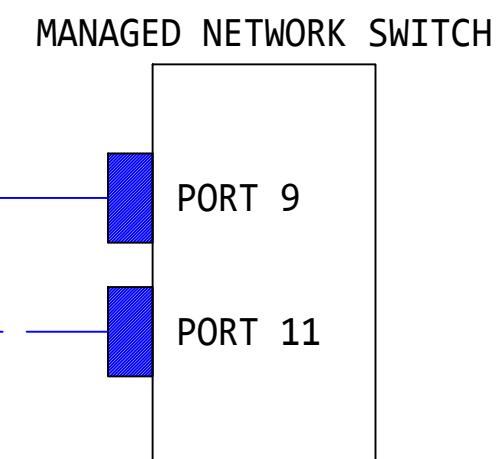


12-PIN M12 A-CODE FEMALE to FLYING  
CABLE ID: CBL-152-2



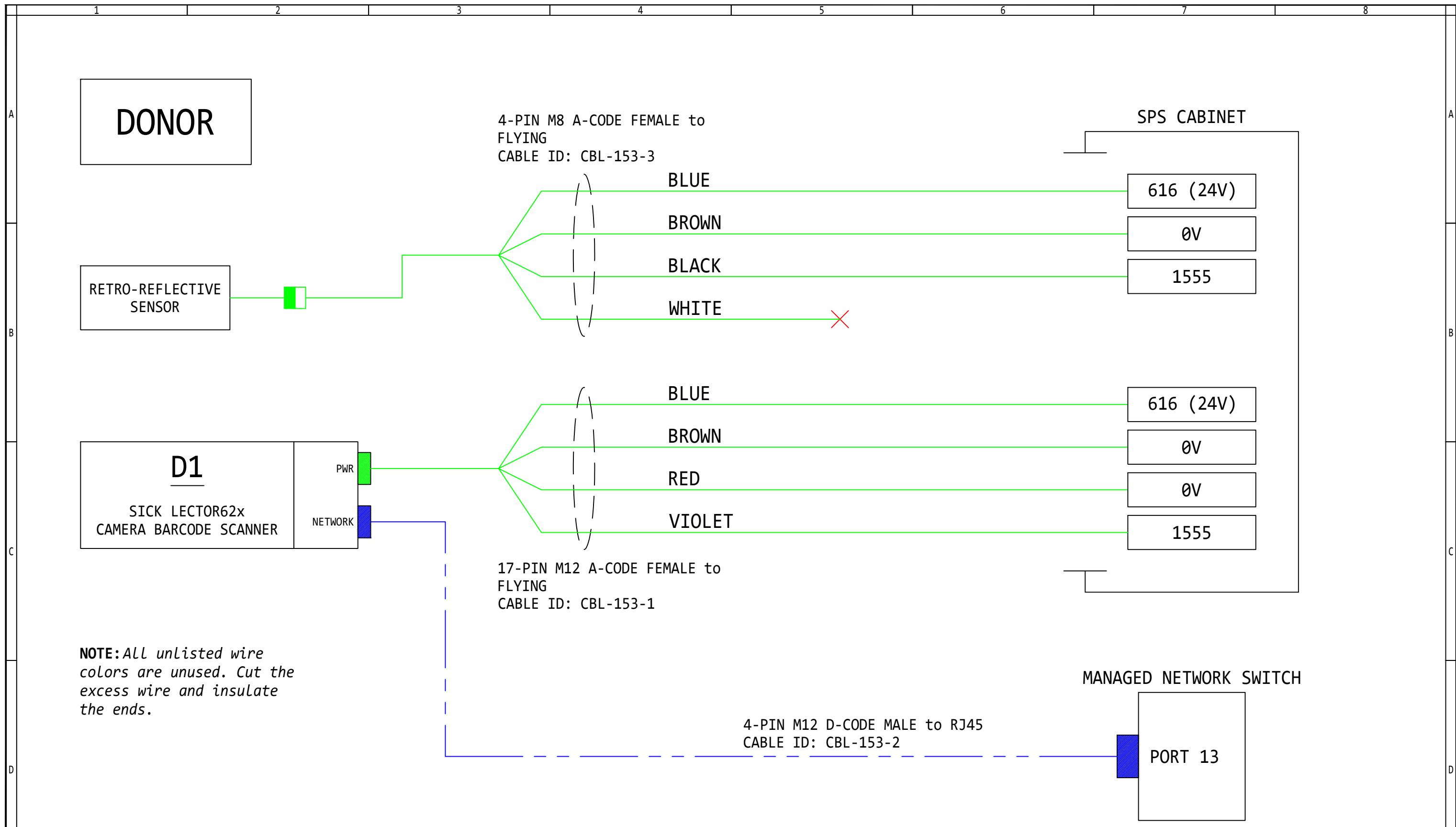
4-PIN M12 D-CODE MALE to RJ45  
CABLE ID: CBL-152-3

4-PIN M12 D-CODE MALE to RJ45  
CABLE ID: CBL-152-4

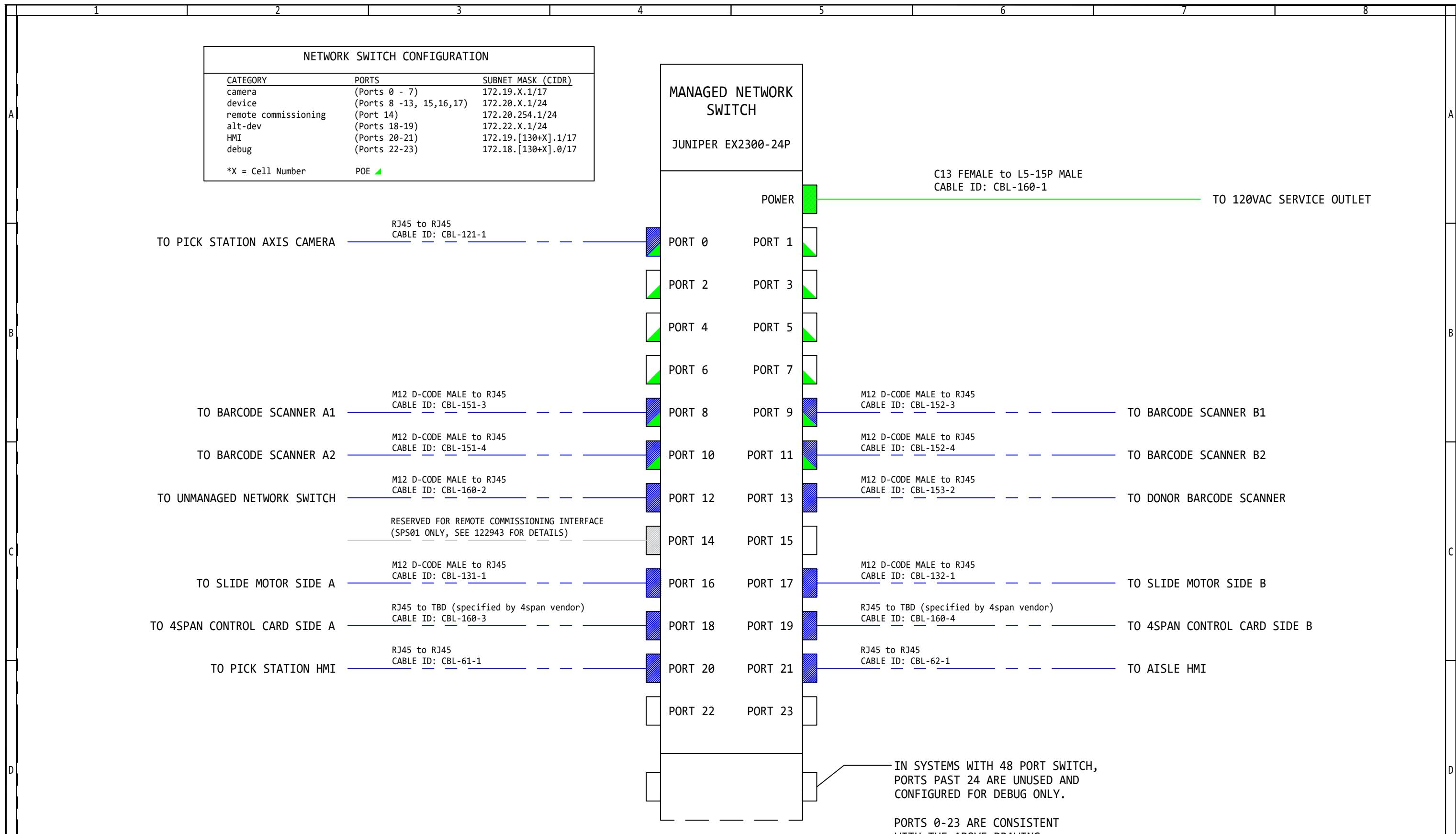


**EL PASO 124914-06 rev:A**

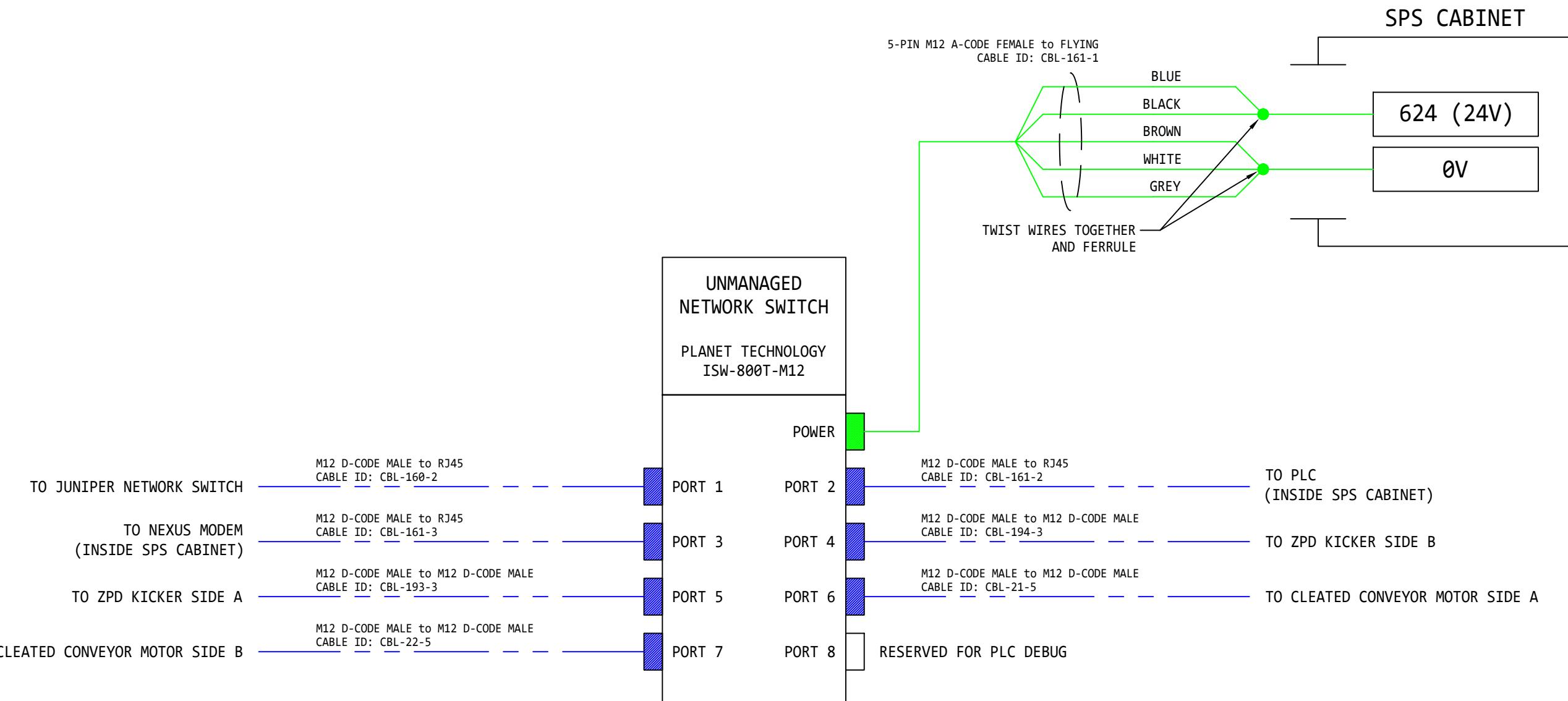
				<b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE	2025-03-31	BARCODE SCANNER MODULE INTERCONNECT DRAWING PACKAGE BARCODE SCANNER WIRING - SIDE B	REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A		A	PREV.	151	BG 125365-01
						DRAWN	RBL			SHEET	152	SPS-152
						APPROVED				NEXT	153	



EL PASO 124914-06 rev:A



EL PASO 124914-06 rev:A  
WITH THE ABOVE DRAWING.

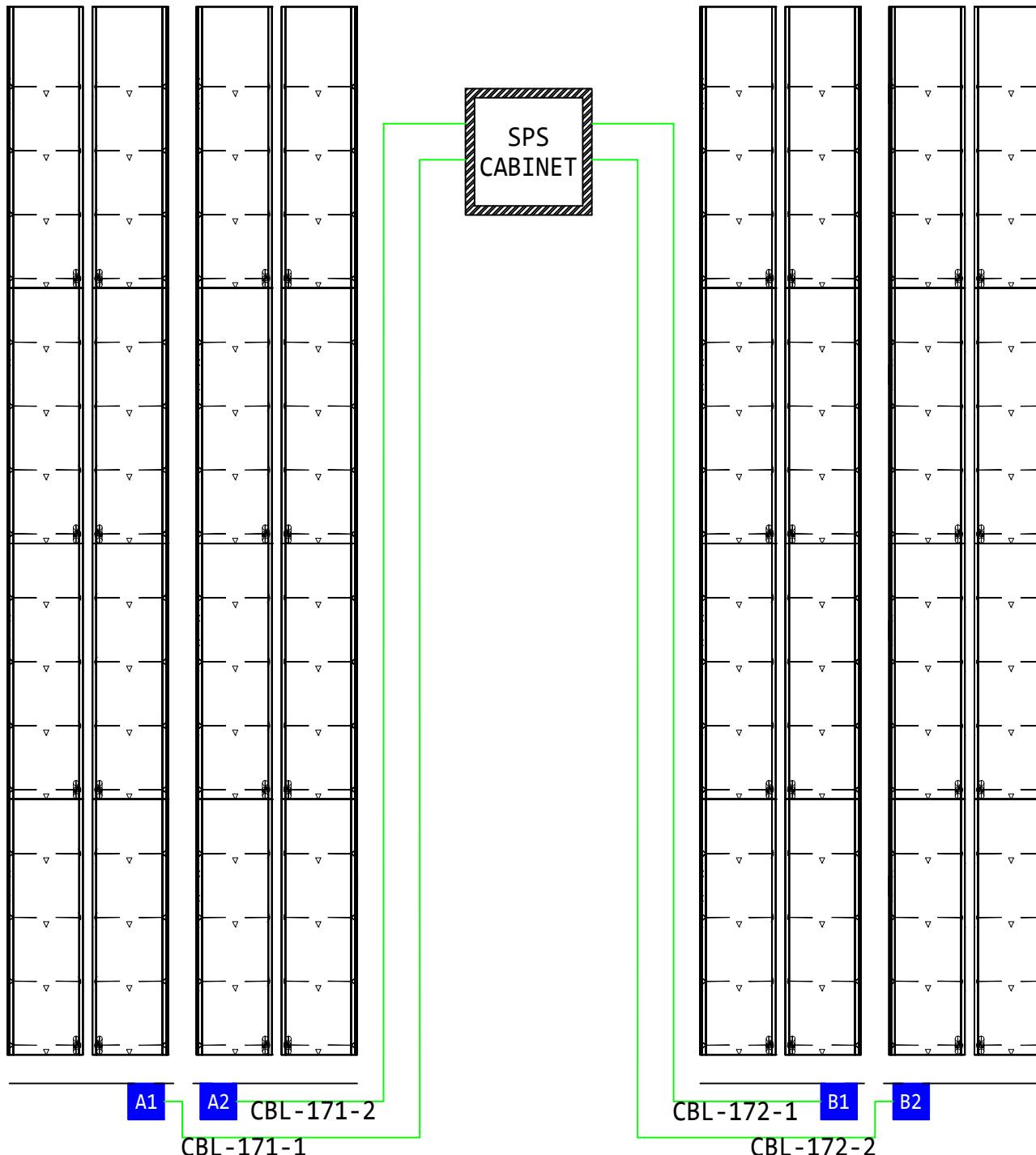


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				 BERKSHIRE GREY	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31  SCALE  DRAWN RBL  APPROVED	NETWORK SWITCH MODULE  INTERCONNECT DRAWING PACKAGE  UNMANAGED NETWORK SWITCH - WIRING	REV  A	SECT. PREV. SHEET NEXT	DETAIL 160 161	JOB# BG 125364-03  DWG SPS-161
REV	DATE	ENGR.	DESCRIPTION	140 SOUTH ROAD BEDFORD, MA 01730							

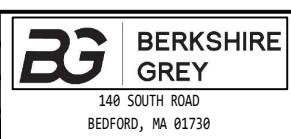
1 2 3 4 5 6 7 8

A

**KEY:**
 GATE INTERLOCK


EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

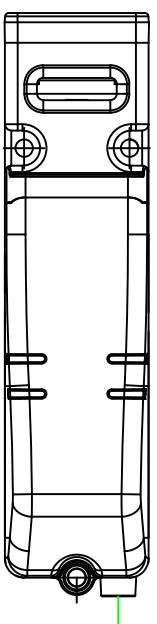
DOOR INTERLOCK MODULE  
INTERCONNECT DRAWING PACKAGE  
GATE INTERLOCKS - OVERVIEW

REV	SECT.	OVERVIEW	JOB#
A	PREV.	170	BG 125367-01
	SHEET	171	SPS-170
	NEXT		DWG

SIDE A

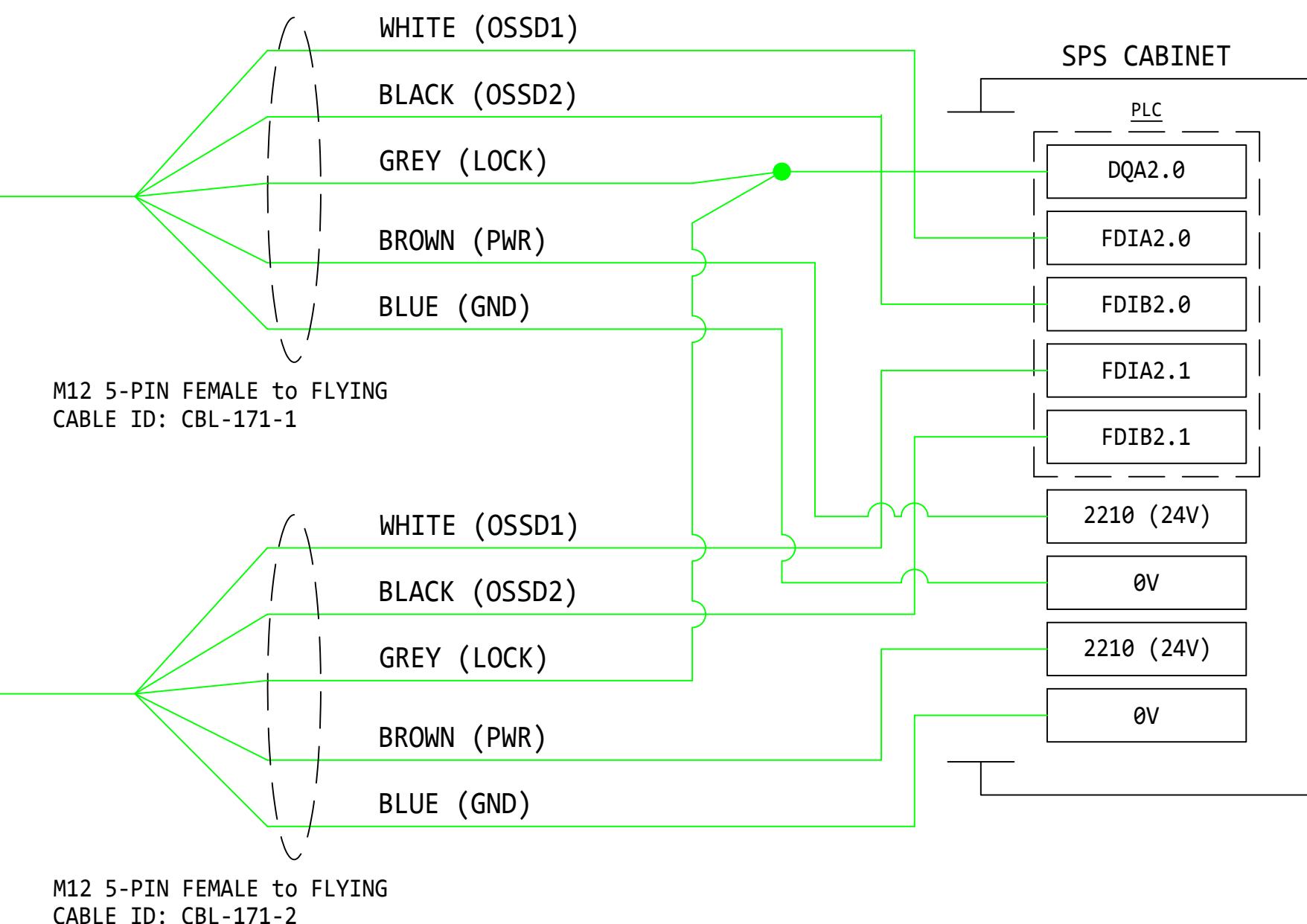
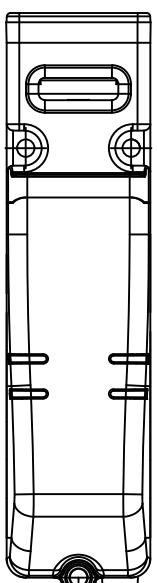
A2

440G-MZS20SNLJ



A1

440G-MZS20SNLJ



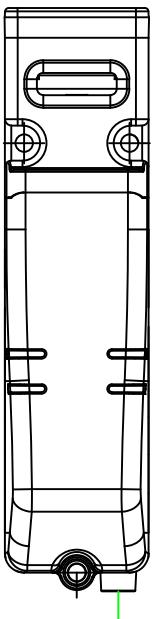
EL PASO 124914-06 rev:A

				THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31	SCALE N/A	DRAWN RBL	APPROVED	DOOR INTERLOCK MODULE INTERCONNECT DRAWING PACKAGE GATE INTERLOCKS WIRING - SIDE A	REV A	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION							PREV. 170	SHEET 171	DWG SPS-171	
				BERKSHIRE GREY	140 SOUTH ROAD BEDFORD, MA 01730								

SIDE B

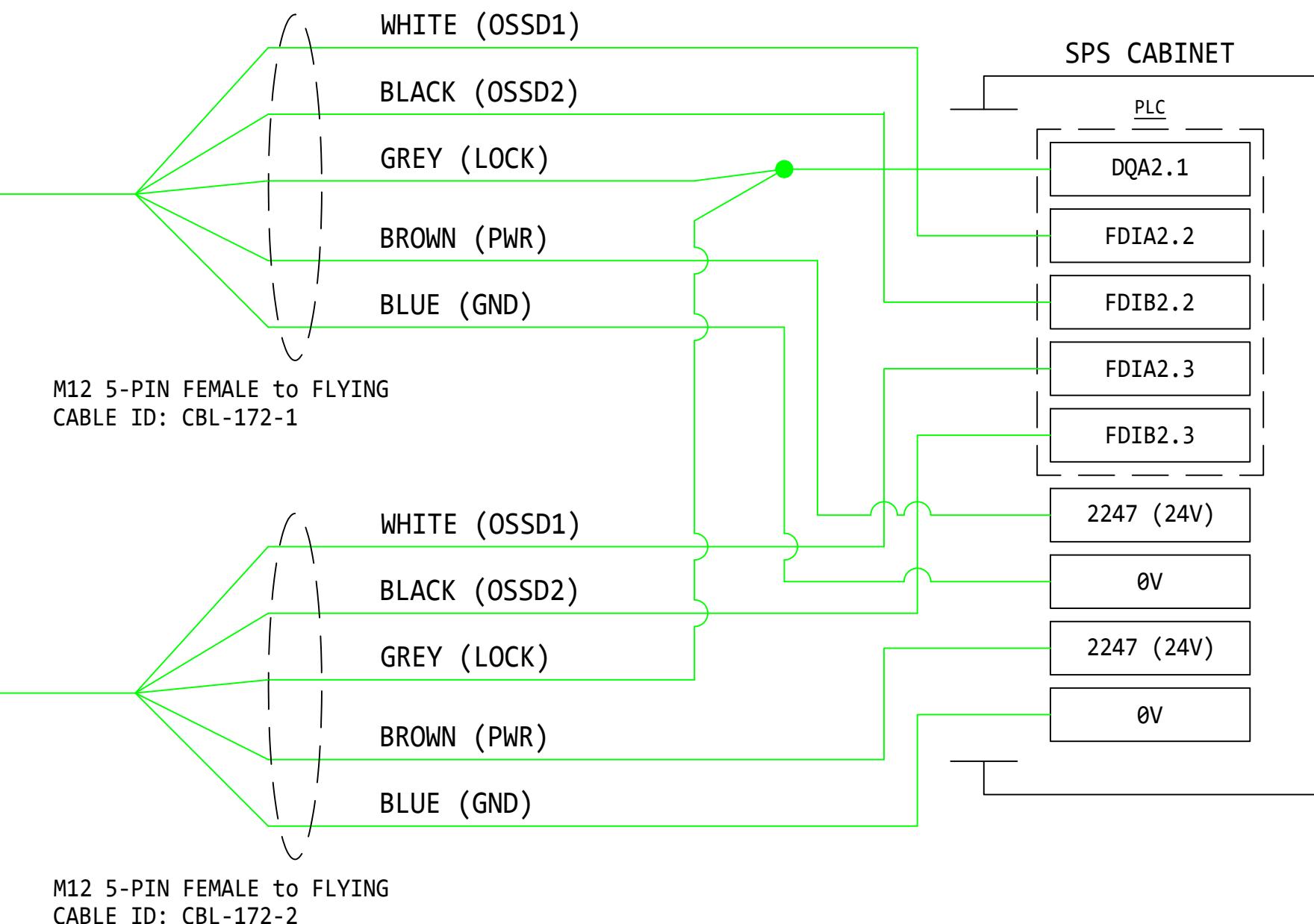
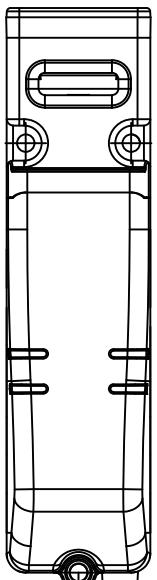
B2

440G-MZS20SNLJ



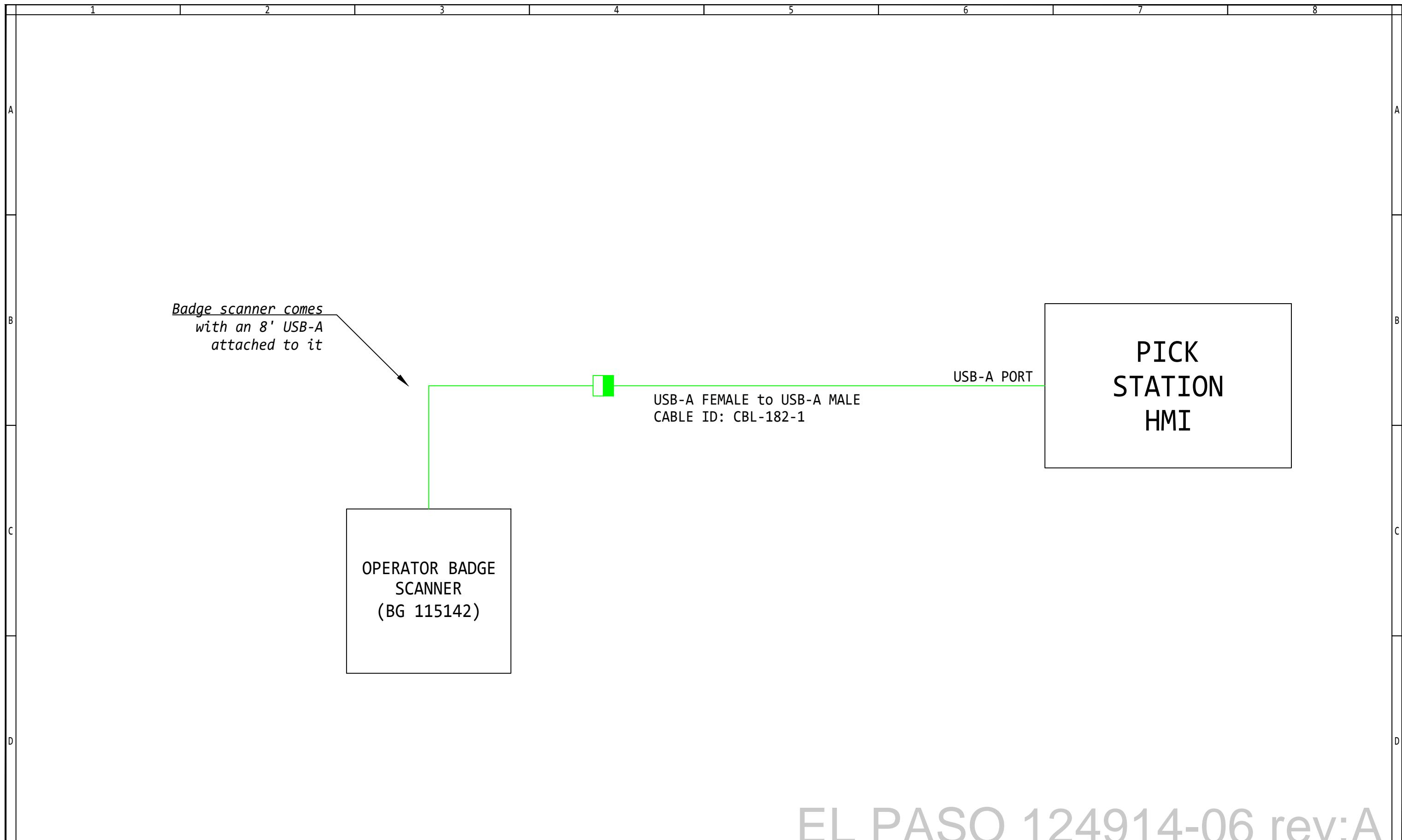
B1

440G-MZS20SNLJ



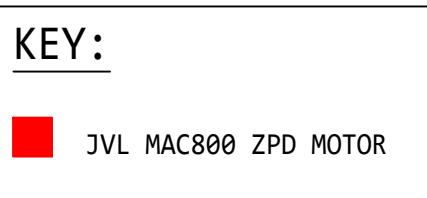
EL PASO 124914-06 rev:A

				THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31	SCALE N/A	DRAWN RBL	APPROVED	DOOR INTERLOCK MODULE INTERCONNECT DRAWING PACKAGE GATE INTERLOCKS WIRING - SIDE B	REV A	SECT. PREV. 171	DETAIL SHEET 172	JOB# BG 125367-01
REV	DATE	ENGR.	DESCRIPTION								172	DWG SPS-172	



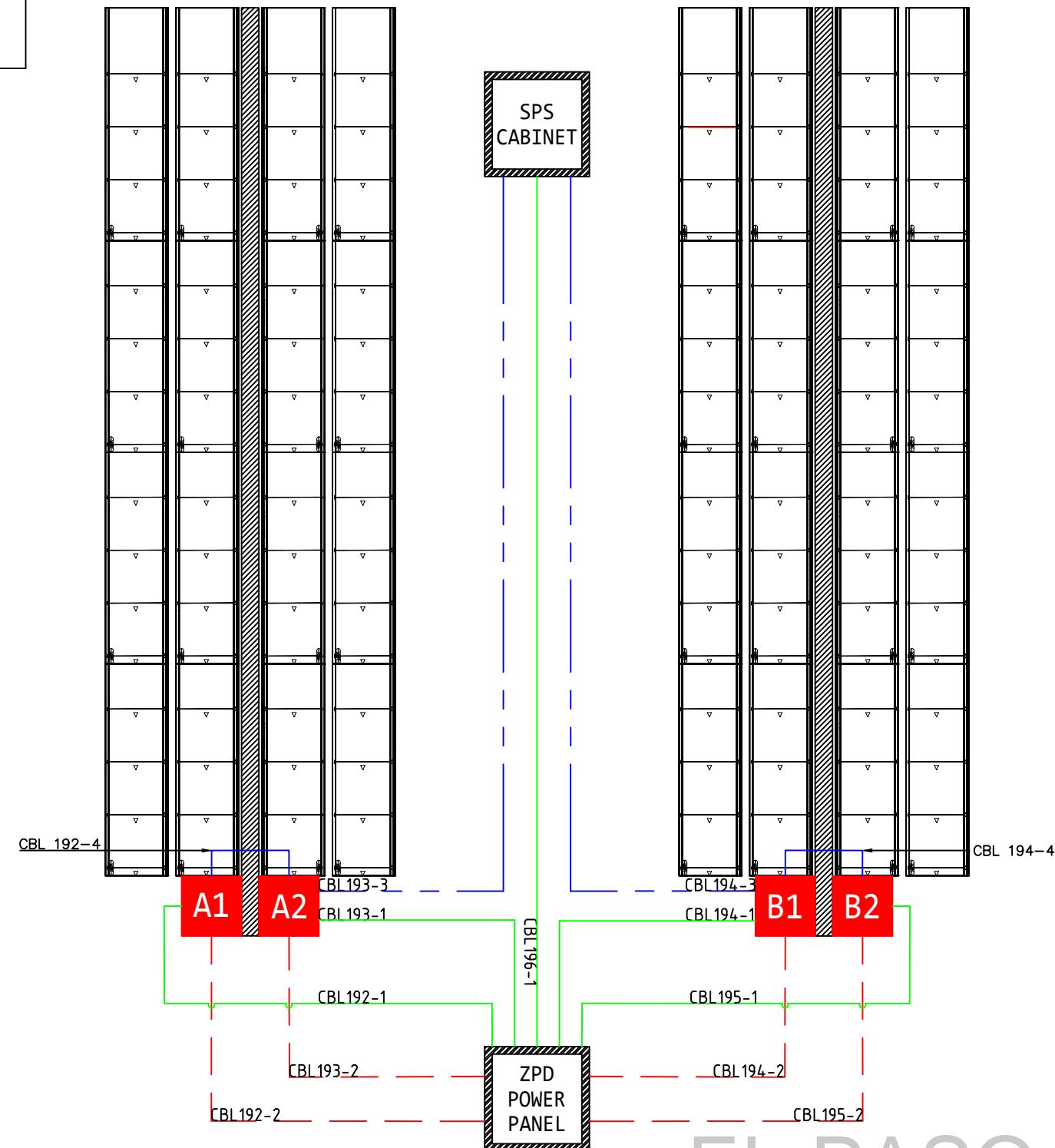
EL PASO 124914-06 rev:A

				<b>BG</b>   <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-03-31  SCALE N/A  DRAWN RBL  APPROVED	USB PERIPHERALS MODULE  INTERCONNECT DRAWING PACKAGE  OPERATOR BADGE SCANNER	REV  A	SECT. PREV. SHEET NEXT	DETAIL 182	JOB# BG 125368-01  DWG SPS-182
REV	DATE	ENGR.	DESCRIPTION								



SIDE A

SIDE B



EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



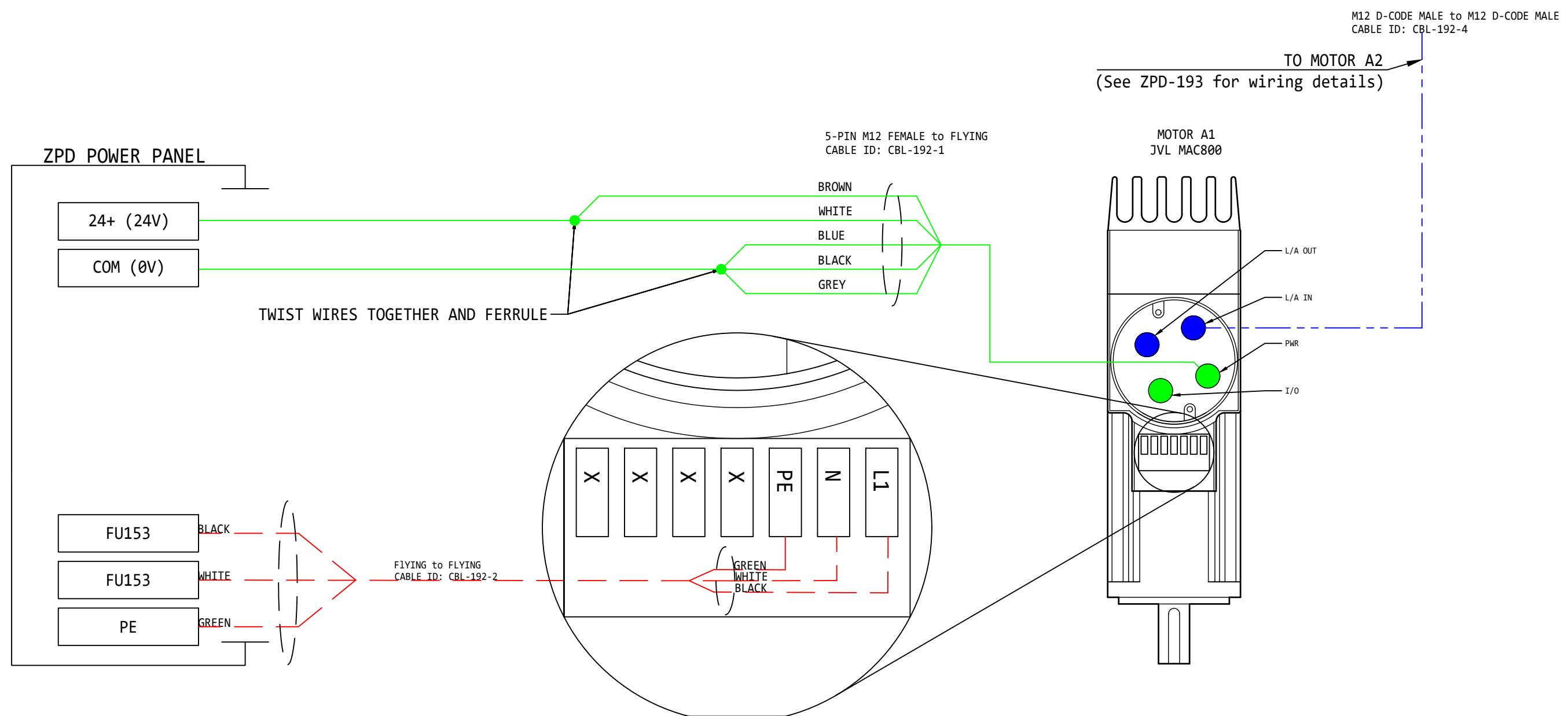
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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
MOTOR CONNECTION OVERVIEW

REV	SECT. OVERVIEW	JOB#
A	PREV. SHEET 190	BG 125369-01
	NEXT 192	DWG SPS-190

## SIDE A



EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

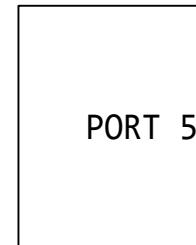
ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
A1 KICKER MOTOR - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	190	BG 125369-01
	SHEET	192	
A	NEXT	193	SPS-192

1 2 3 4 5 6 7 8

SIDE A

UNMANAGED  
NETWORK SWITCH



M12 D-CODE MALE to M12 D-CODE  
CABLE ID: CBL-193-3

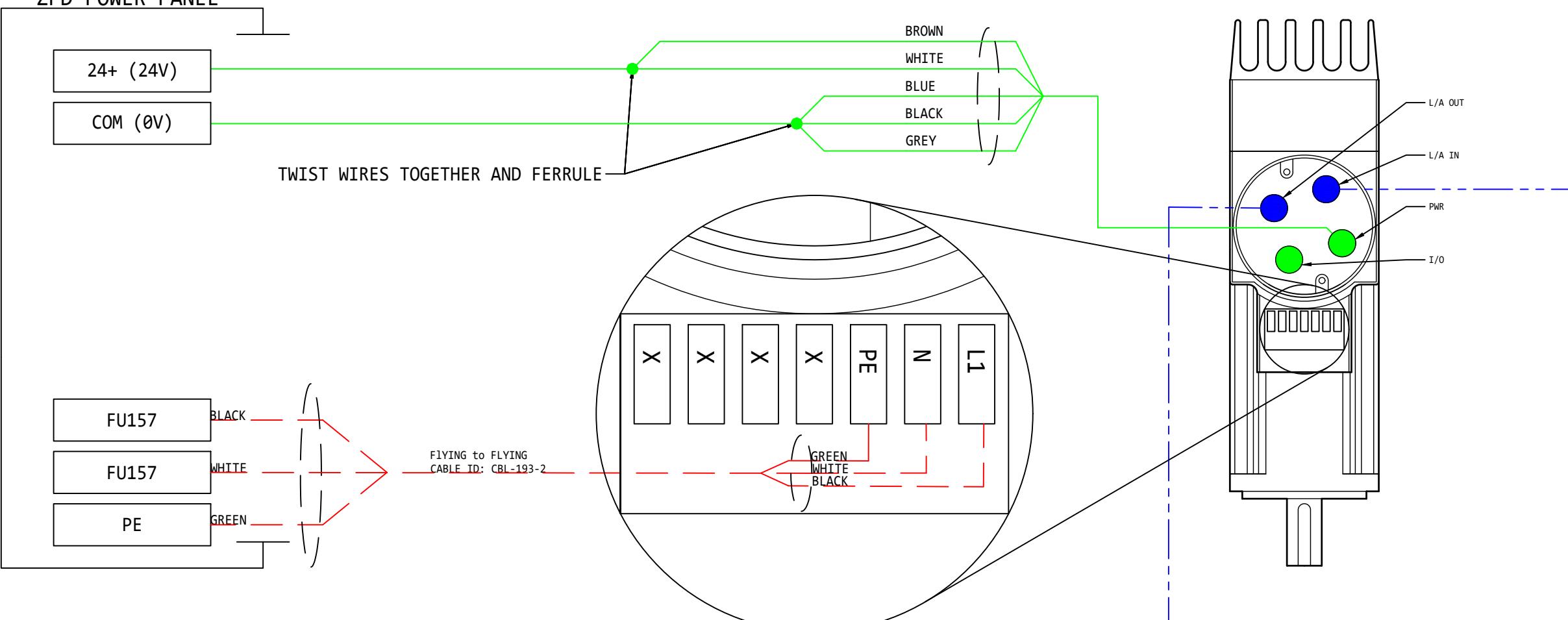
ZPD POWER PANEL

24+ (24V)

COM (0V)

5-PIN M12 FEMALE to FLYING  
CABLE ID: CBL-193-1

MOTOR A2  
JVL MAC800



M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-192-4

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

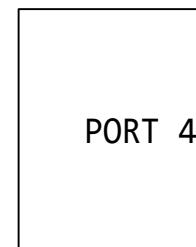
ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
A2 KICKER MOTOR - WIRING

REV A SECT. PREV. 192 SHEET 193 NEXT 194  
DETAIL 192  
JOB# BG 125369-01  
DWG SPS-193

1 2 3 4 5 6 7 8

SIDE B

UNMANAGED  
NETWORK SWITCH



M12 D-CODE MALE to M12 D-CODE  
CABLE ID: CBL-194-3

ZPD POWER PANEL

24+ (24V)

COM (0V)

FU161 BLACK

FU161 WHITE

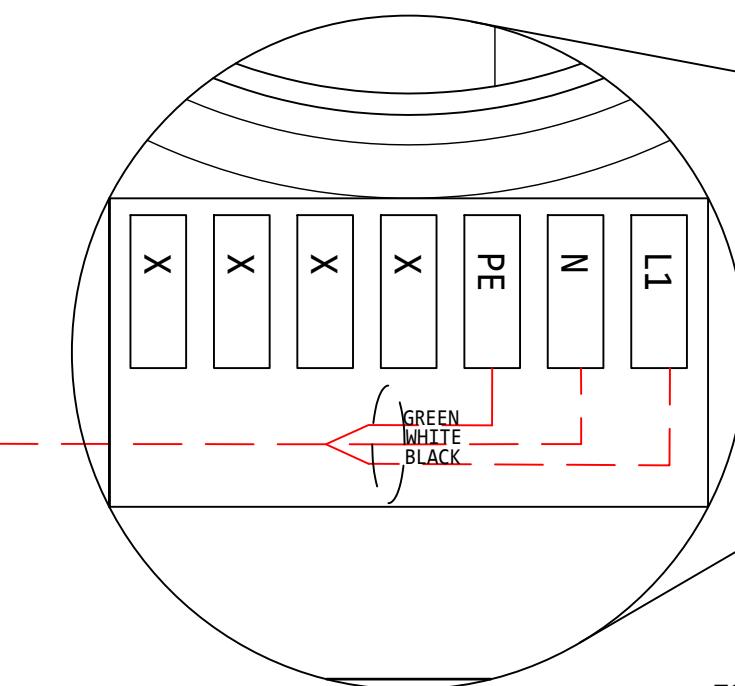
PE GREEN

5-PIN M12 FEMALE to FLYING  
CABLE ID: CBL-194-1

MOTOR B1  
JVL MAC800

BROWN  
WHITE  
BLUE  
BLACK  
GREY

TWIST WIRES TOGETHER AND FERRULE



FLYING to FLYING  
CABLE ID: CBL-194-2

TO MOTOR B2  
(See ZPD-195 for wiring details)

M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-194-4

M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-194-3

M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-194-4

EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



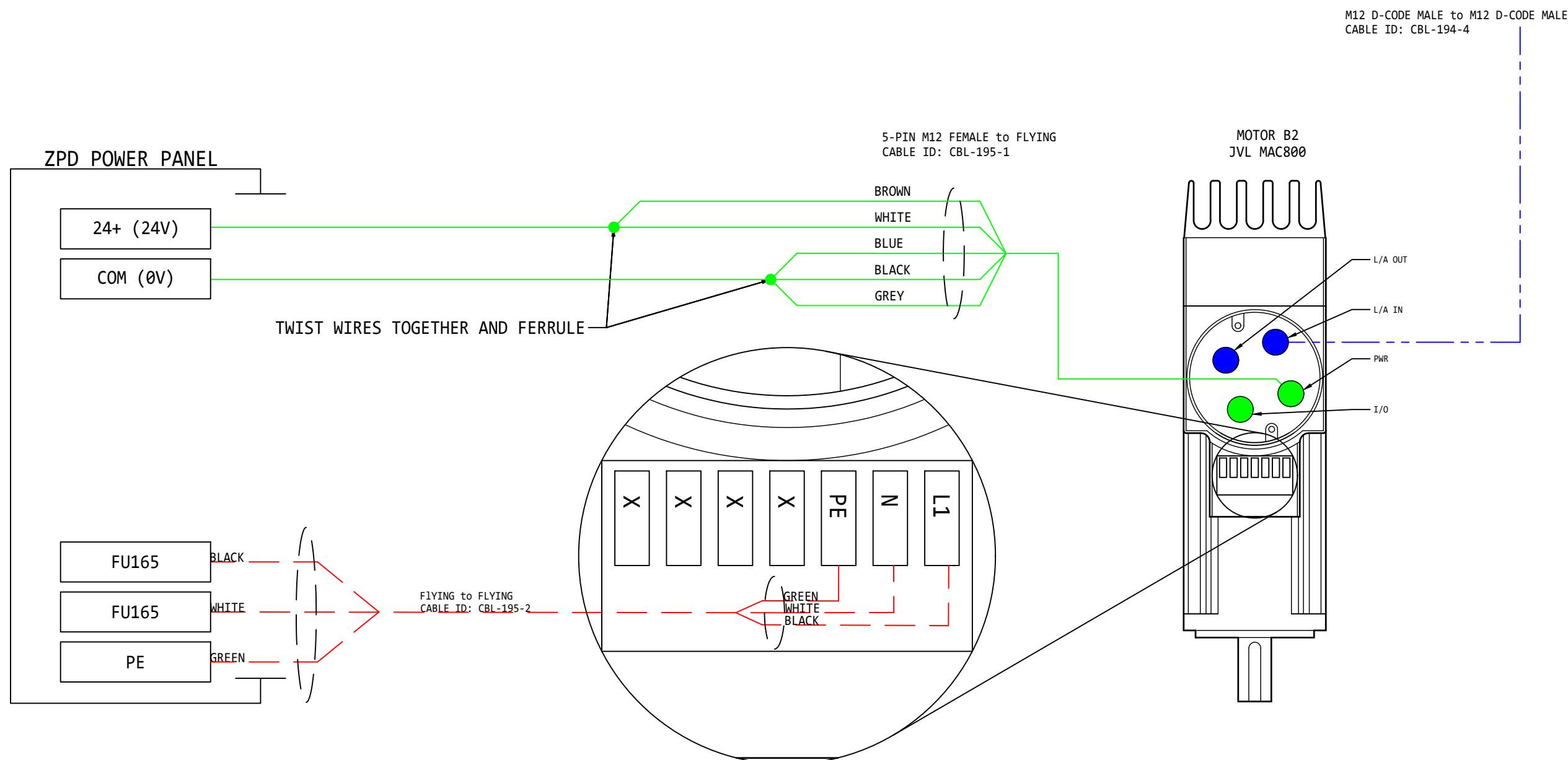
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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
B1 KICKER MOTOR - WIRING

REV	SECT. PREV. SHEET	DETAIL 193 194	JOB# BG 125369-01
A			DWG SPS-194
			NEXT 195

## SIDE B



REV	DATE	ENGR.	DESCRIPTION

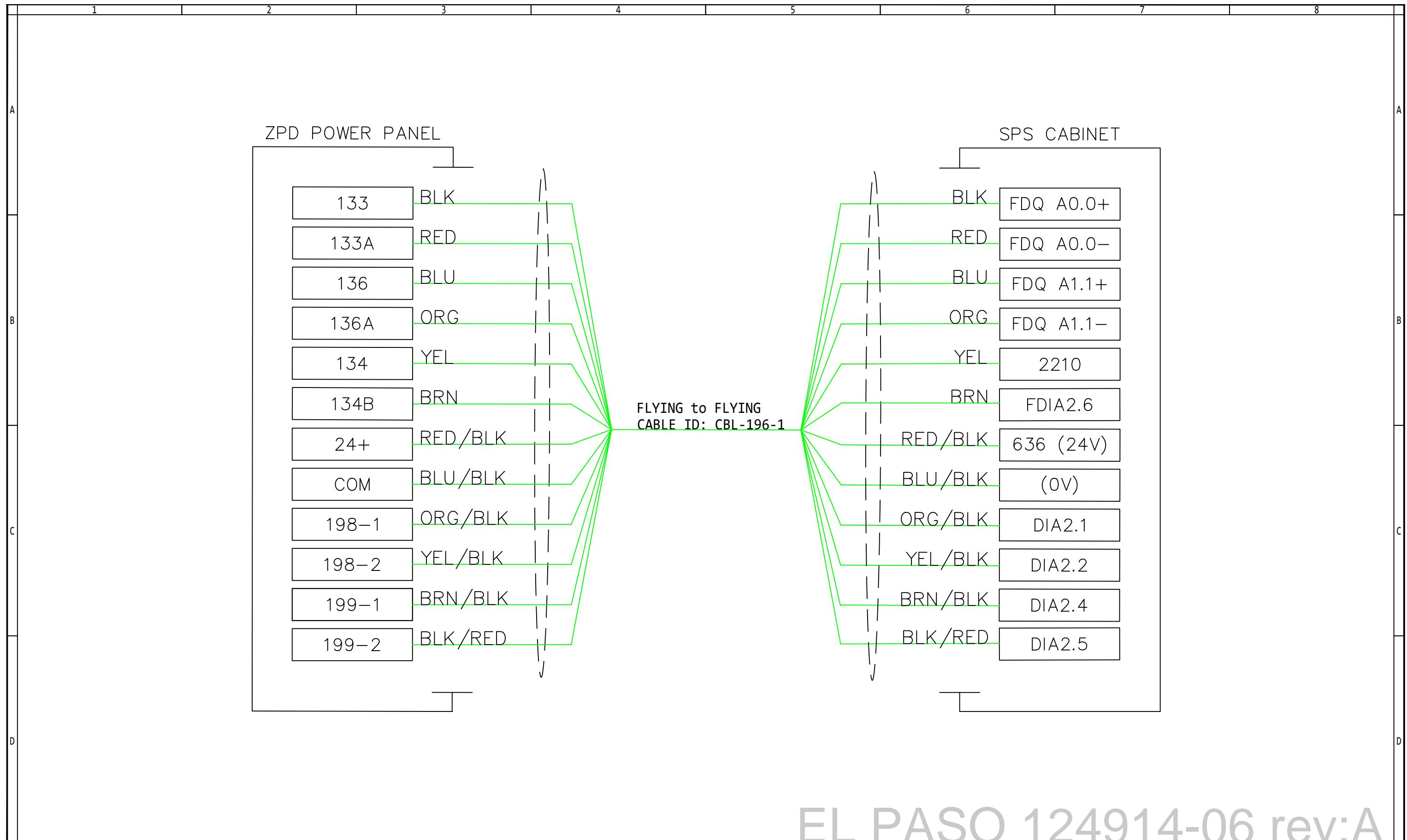


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DATE 2025-03-31  
SCALE N/A  
DRAWN RBL  
APPROVED

ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
B2 KICKER MOTOR - WIRING

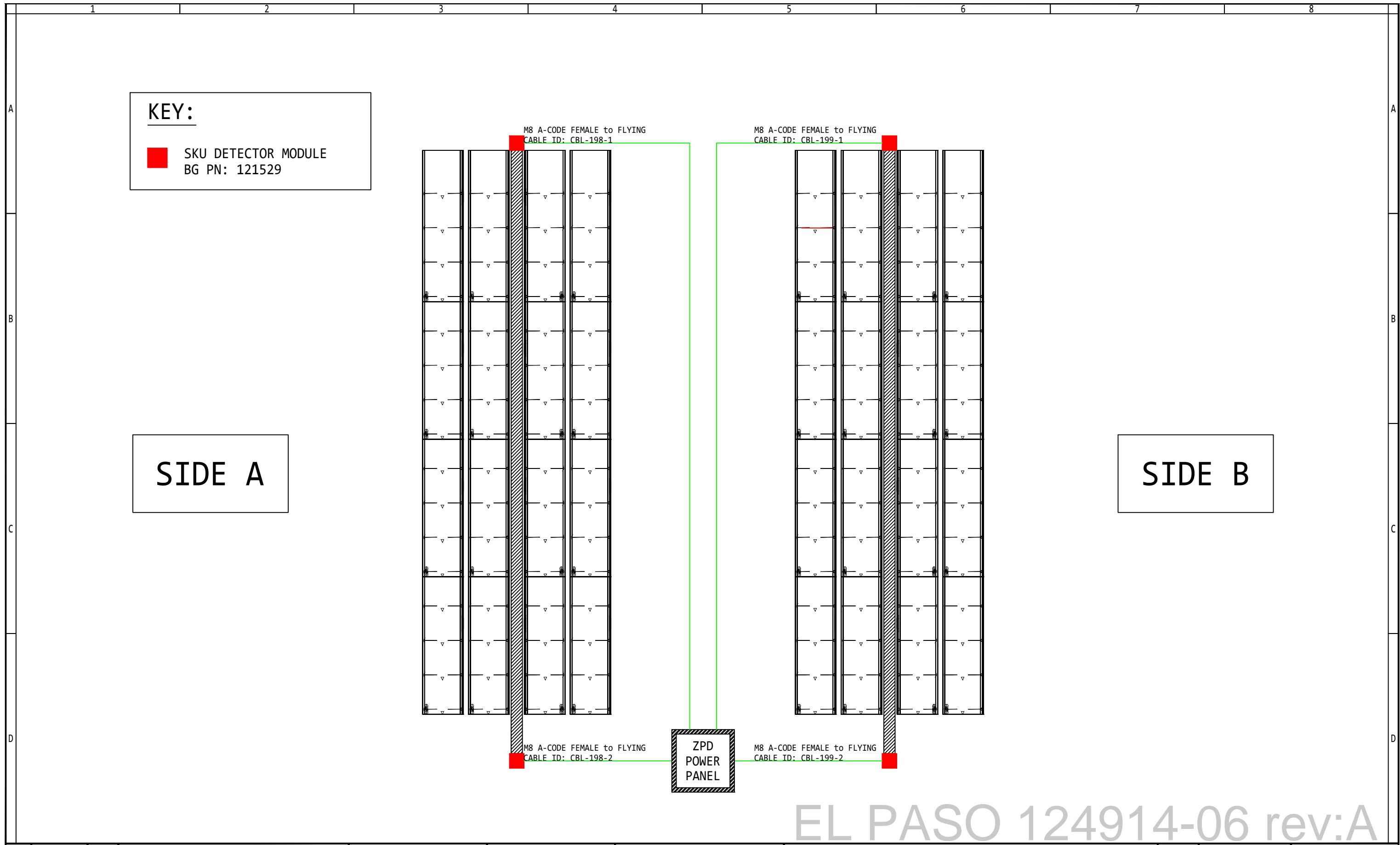
REV	SECT.	DETAIL	JOB#
A	PREV.	194	BG 125369-01
A	SHEET	195	SPS-195
A	NEXT	196	



EL PASO 124914-06 rev:A

				<b>BG</b>   <b>BERKSHIRE GREY</b>  140 SOUTH ROAD BEDFORD, MA 01730	DATE	2025-03-31	ZERO PENALTY DISCHARGE MODULE  INTERCONNECT DRAWING PACKAGE  ZPD CABINET TO SPS CABINET COMMS - WIRING	REV  A	SECT.	DETAIL	JOB#	BG 125369-01
					SCALE	N/A			PREV.	195		
					DRAWN	RBL			SHEET	196		
REV	DATE	ENGR.	DESCRIPTION		APPROVED				NEXT	197	DWG	SPS-196

1 2 3 4 5 6 7 8



EL PASO 124914-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

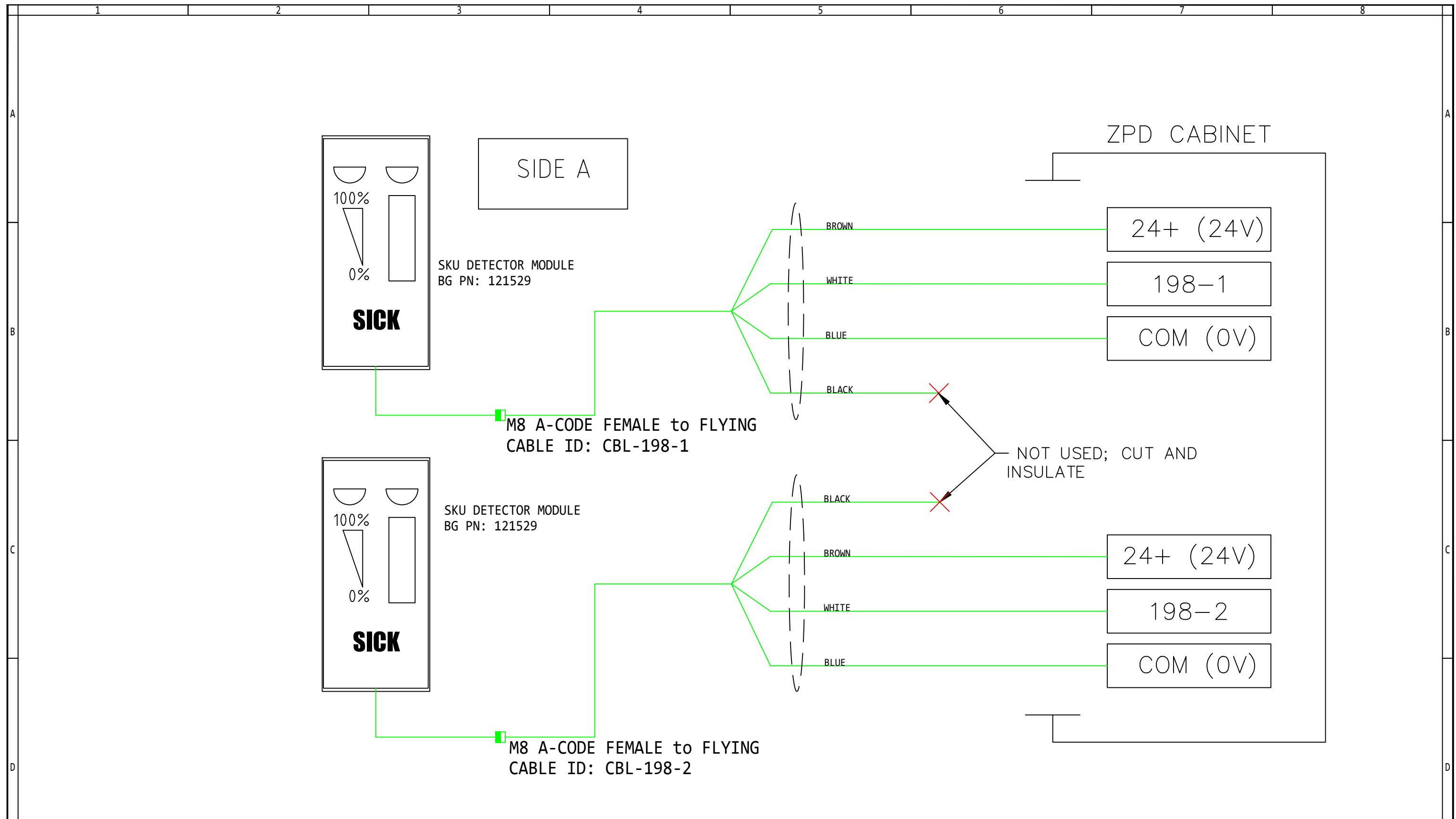


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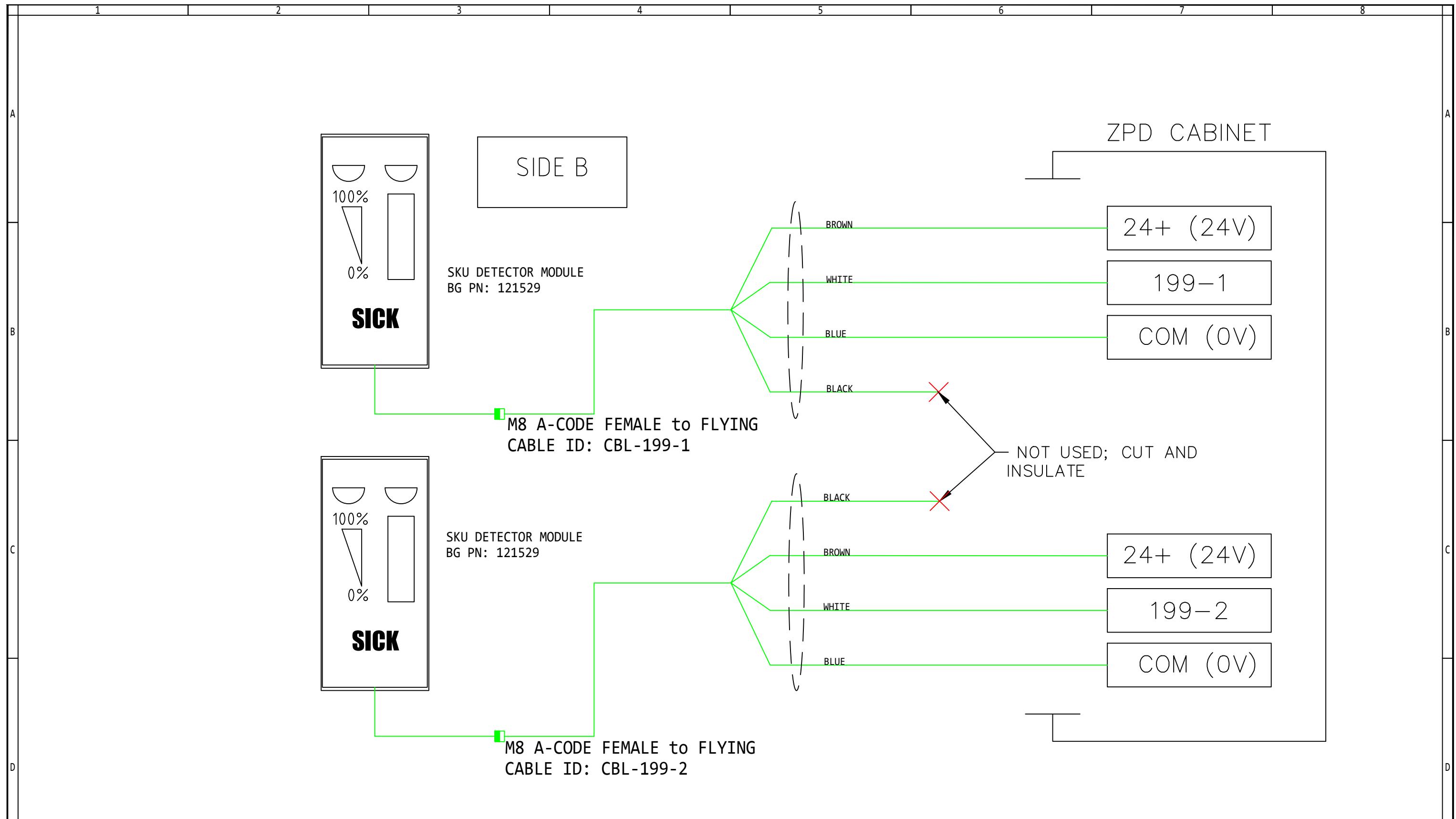
DATE	2025-03-31
SCALE	N/A
DRAWN	RBL
APPROVED	

ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
SKU DETECTION SYSTEM - OVERVIEW

REV	SECT.	OVERVIEW	JOB#
	PREV.	196	BG 125369-01
A	SHEET	197	
	NEXT	198	SPS-197



EL PASO 124914-06 rev:A



EL PASO 124914-06 rev:A