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# EL PASO DC - TJX INTERCONNECT DRAWING PACKAGE

INCLUDES: ZERO PENALTY DISCHARGE;  
SMART BUCKET;  
DESTINATION STAGING

REV A

PUBLISHED 2025-04-30

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



140 SOUTH ROAD  
BEDFORD, MA 01730

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EL PASO DC - TJX  
INTERCONNECT DRAWING PACKAGE  
TITLE PAGE

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			124915-06
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	1	2	3	4	5	6	7	8	
A	Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit
	CBL-11-1	Flying	Primary Disconnect	Flying	Main Cabinet	N/A	Panel Vendor	n/a	
B	CBL-11-2	Flying	Facility	Flying	Primary Disconnect	N/A	Facility	n/a	
	CBL-12-1	Flying 4-C	Main Cabinet	Flying	4-span A	TBD	4-Span Mfr.	n/a	
	CBL-12-2	Flying 4-C	Main Cabinet	Flying	4-span B	TBD	4-Span Mfr.	n/a	
	CBL-13-1	Flying 2-C	Main Cabinet	Flying	4-span A	TBD	4-Span Mfr.	n/a	
	CBL-13-2	Flying 2-C	Main Cabinet	Flying	4-span B	TBD	4-Span Mfr.	n/a	
	CBL-21-1	Flying 7-C	Main Cabinet	M16 A-CODE 7-PIN FEMALE	Cleated conveyor motor A	20m	BG	115260	125054
	CBL-21-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Cleated conveyor motor A	20m	BG	109473	125054
	CBL-21-4	M12 A-CODE 17-PIN MALE	Cleated conveyor motor A	Flying	Field wireable connector	1.5m	BG	106666	125055
	CBL-21-5	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Cleated conveyor motor A	10m	BG	115136-100	125055
	CBL-22-1	Flying 7-C	Main Cabinet	M16 A-CODE 7-PIN FEMALE	Cleated conveyor motor B	20m	BG	115260	125054
C	CBL-22-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Cleated conveyor motor B	20m	BG	109473	125054
	CBL-22-4	M12 A-CODE 17-PIN MALE	Cleated conveyor motor B	Flying	Field wireable connector	1.5m	BG	106666	125055
	CBL-22-5	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Cleated conveyor motor B	10m	BG	115136-100	125055
	CBL-31-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-3	25m	BG	109823	125054
	CBL-31-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-4	25m	BG	109823	125054
	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	BG	109823	125054
	CBL-31-6	M12 A-CODE 5-PIN MALE	CBL-31-5	Keyence	Overfull light curtain A2 (tx)	0.3m	BG	106185	124676
	CBL-32-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-3	25m	BG	109823	125054
D	CBL-32-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-4	25m	BG	109823	125054
	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	BG	109823	125054
	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 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-33-3	25m	BG	109823	125054
	CBL-33-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-33-4	25m	BG	109823	125054
	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
	CBL-51-1	Flying 6-C	E-stop pull cord base A1	AS-i Vampire Clamp	Yellow AS-i flat cable	25m	BG	102475	125054
E	CBL-51-2	Flying 6-C	E-stop pull cord base A2	AS-i Vampire Clamp	Yellow AS-i flat cable	25m	BG	102475	125054
	CBL-52-1	Flying 6-C	E-stop pull cord base B1	AS-i Vampire Clamp	Yellow AS-i flat cable	25m	BG	102475	125054
	CBL-52-2	Flying 6-C	E-stop pull cord base B2	AS-i Vampire Clamp	Yellow AS-i flat cable	25m	BG	102475	125054
	CBL-61-1	RJ45	Managed network switch	RJ45	Aisle HMI	25m	BG	125612	125070

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Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit
CBL-61-2	Flying 2-C	Main Cabinet	Flying 2-C	Aisle HMI	25m	BG	118009	125070
CBL-91-1	Flying 3-C	Main Cabinet	Flying 3-C	Conductive rails A	25m	BG	119775	125054
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	BG	119775	125054
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	Aisle stack light	3m	BG	107132-030	
CBL-102-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Aisle stack light	25m	BG	109823	125070
CBL-121-1	RJ45	Managed network switch	RJ45	Axis camera 1	20m	BG	115219-200	124675
CBL-121-2	RJ45	Managed network switch	RJ45	Axis camera 2	20m	BG	115219-200	124675
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	BG	109401	125054
CBL-131-3	Flying 6-C	Main Cabinet	M23 6-PIN FEMALE	Slide motor A	10m	BG	104826	125054
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	BG	109401	125054
CBL-132-3	Flying 6-C	Main Cabinet	M23 6-PIN FEMALE	Slide motor B	10m	BG	104826	125054
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 3-C	Slide motor A	Flying 3-C	Braking resistor A	11ft	BG	120389	124674
CBL-133-2	Flying 2-C	Main Cabinet	Flying 2-C	Braking resistor A	25m	BG	118009	125054
CBL-134-1	Flying 3-C	Slide motor B	Flying 3-C	Braking resistor B	11ft	BG	120389	124674
CBL-134-2	Flying 2-C	Main Cabinet	Flying 2-C	Braking resistor B	25m	BG	118009	125054
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
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-141-6	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-142-6	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

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	1	2	3	4	5	6	7	8		
A	Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit	A
	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-144-7	M12 A-CODE 5-PIN FEMALE	DXMR90-4K	0.91m	BG	122361	124804	
	CBL-144-2	M12 D-CODE 4-PIN MALE	CBL-144-8 (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		
	CBL-145-2	Spade connector 1-C	Shuttle power box A	Flying 1-C	24V collector A	0.4m	Panel Vendor	115781		
	CBL-145-3	Spade connector 1-C	Shuttle power box A	Flying 1-C	72V collector A	0.4m	Panel Vendor	115781		
	CBL-146-1	Spade connector 1-C	Shuttle power box B	Flying 1-C	0V collector B	0.4m	Panel Vendor	115782		
	CBL-146-2	Spade connector 1-C	Shuttle power box B	Flying 1-C	24V collector B	0.4m	Panel Vendor	115781		
B	CBL-146-3	Spade connector 1-C	Shuttle power box B	Flying 1-C	72V collector B	0.4m	Panel Vendor	115781		B
	CBL-151-1	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner A1	20m	BG	124806	125054	
	CBL-151-2	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner A2	20m	BG	124806	125054	
	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	20m	BG	124806	125054	
	CBL-152-2	Flying 12-C	Main Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner B2	20m	BG	124806	125054	
	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	20m	BG	124826	125054	
C	CBL-153-2	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Donor barcode scanner	20m	BG	109474	125055	C
	CBL-153-3	Flying 4-C	Main Cabinet	M8 A-CODE 4-PIN FEMALE	Hardware trigger photo-eye	20m	BG	122945	125054	
	CBL-160-1	L5-15P	Facility 120V service outlet	C13 FEMALE	Managed network switch	15ft	BG	111381	125055	
	CBL-160-2	RJ45	Managed network switch	M12 D-CODE 4-PIN MALE	Unmanaged network switch	10m	BG	115138-100	125054	
	CBL-160-3	RJ45	Managed network switch	RJ45	4-Span control card side A	TBD	4-Span Mfr.	n/a		
	CBL-160-4	RJ45	Managed network switch	RJ45	4-Span control card side B	TBD	4-Span Mfr.	n/a		
	CBL-161-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Unmanaged network switch	3m	BG	118087	125054	
	CBL-161-2	RJ45	Main Cabinet	M12 D-CODE 4-PIN MALE	Unmanaged network switch	1m	Panel Vendor	115138-010		
	CBL-161-3	RJ45	Main Cabinet	M12 D-CODE 4-PIN MALE	Unmanaged network switch	1m	Panel Vendor	115138-010		
	CBL-171-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock A2	25m	BG	109823	125054	
D	CBL-171-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock A1	25m	BG	109823	125054	D
	CBL-172-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock B2	20m	BG	118004	125054	
	CBL-172-2	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock B1	20m	BG	118004	125054	
	CBL-173-1	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	RPS cell door interlock	20m	BG	109473	125056	
	CBL-192-1	M12 A-CODE 5-PIN FEMALE	Decoupled Kicker motor A1	Flying 5-C	ZPD Cabinet	25m	BG	109823	124677	
	CBL-192-2	Flying 3-C	ZPD Cabinet	Flying 3-C	Decoupled Kicker motor A1	30m	BG	124603	124677	

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

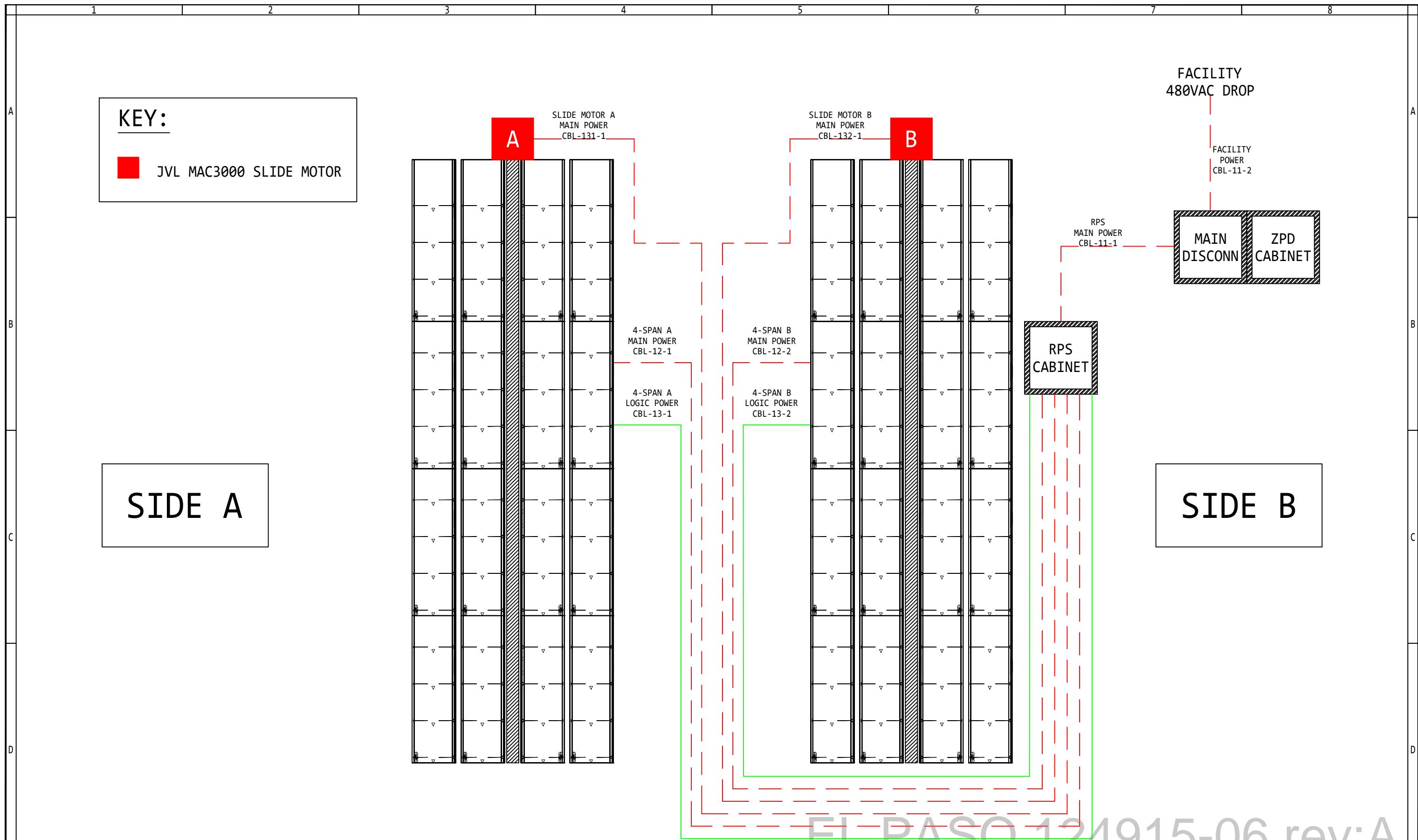
1	2	3	4	5	6	7	8
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Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #	BG Cable Kit
CBL-192-4	M12 D-CODE 4-PIN MALE	Decoupled Kicker motor A1	M12 D-CODE 4-PIN MALE	Decoupled Kicker motor A2	2m	BG	115136-020	124677
CBL-193-1	M12 A-CODE 5-PIN FEMALE	Decoupled Kicker motor A2	Flying 5-C	ZPD Cabinet	25m	BG	109823	124677
CBL-193-2	Flying 3-C	ZPD Cabinet	Flying 3-C	Decoupled Kicker motor A2	30m	BG	124603	124677
CBL-193-3	M12 D-CODE 4-PIN MALE	Unmanaged Network Switch	M12 D-CODE 4-PIN MALE	Decoupled Kicker motor A2	30m	BG	125747	124677
CBL-194-1	M12 A-CODE 5-PIN FEMALE	Decoupled Kicker motor B1	Flying 5-C	ZPD Cabinet	25m	BG	109823	124677
CBL-194-2	Flying 3-C	ZPD Cabinet	Flying 3-C	Decoupled Kicker motor B1	30m	BG	124603	124677
CBL-194-3	M12 D-CODE 4-PIN MALE	Unmanaged Network Switch	M12 D-CODE 4-PIN MALE	Decoupled Kicker motor B1	30m	BG	125747	124677
CBL-194-4	M12 D-CODE 4-PIN MALE	Decoupled Kicker motor B1	M12 D-CODE 4-PIN MALE	Decoupled Kicker motor B2	2m	BG	115136-020	124677
CBL-195-1	M12 A-CODE 5-PIN FEMALE	Decoupled Kicker motor B2	Flying 5-C	ZPD Cabinet	25m	BG	109823	124677
CBL-195-2	Flying 3-C	ZPD Cabinet	Flying 3-C	Decoupled Kicker motor B2	30m	BG	124603	124677
CBL-196-1	Flying 12-C	RPS Cabinet	Flying 12-C	ZPD Cabinet	25m	Panel Vendor	125748	
CBL-198-1	Flying 4-C	ZPD Cabinet	M8 A-CODE 4-PIN FEMALE	SKU Detection Sensor A1	25m	BG	125746	124677
CBL-198-2	Flying 4-C	ZPD Cabinet	M8 A-CODE 4-PIN FEMALE	SKU Detection Sensor A2	25m	BG	125746	124677
CBL-199-1	Flying 4-C	ZPD Cabinet	M8 A-CODE 4-PIN FEMALE	SKU Detection Sensor B1	25m	BG	125746	124677
CBL-199-2	Flying 4-C	ZPD Cabinet	M8 A-CODE 4-PIN FEMALE	SKU Detection Sensor B2	25m	BG	125746	124677
CBL-202-1	Flying 6-C	Load cell summation box	Flying 6-C	ZM301 weight indicator	2m	BG	105598	125056
CBL-202-2	RJ45	ZM301 weight indicator	RJ45	Managed network switch	7.6m	BG	106949-076	125056
CBL-202-3	AS-i Flat Cable 2-C	AS-i splitter to terminal blocks	AS-i Flat Cable 2-C	ZM301 weight indicator	Cut to length	BG	105564	125056
CBL-211-1	M12 A-CODE 12-PIN FEMALE	Cognex camera - side A	Flying 12-C	AS-i splitter to terminal blocks	5m	BG	109791	125056
CBL-211-2	M12 X-CODE 8-PIN MALE	Cognex camera - side A	RJ45	Managed network switch	20m	BG	115139-200	125056
CBL-211-3	M12 A-CODE 12-PIN FEMALE	Cognex camera - side B	Flying 12-C	AS-i splitter to terminal blocks	5m	BG	109791	125056
CBL-211-4	M12 X-CODE 8-PIN MALE	Cognex camera - side B	RJ45	Managed network switch	20m	BG	115139-200	125056
CBL-212-1	M12 X-CODE 8-PIN MALE	Perception module	RJ45	Managed network switch	20m	BG	115139-200	125056
CBL-212-2	M12 X-CODE 8-PIN MALE	Perception module	RJ45	Managed network switch	20m	BG	115139-200	125056
CBL-212-3	Flying 4-C	Main Cabinet	M12 A-CODE 4-PIN FEMALE	Perception module	25m	BG	109857	125056
CBL-213-1	M8 A-CODE 3-PIN MALE	IFM AC2484 I/O module	M8 A-CODE 3-PIN FEMALE	Autoswap cup sensor	0.3m	BG	106616	125056
CBL-213-2	M8 A-CODE 3-PIN MALE	IFM AC2484 I/O module	M8 A-CODE 3-PIN FEMALE	Autoswap cup sensor	0.3m	BG	106616	125056
CBL-213-3	M8 A-CODE 3-PIN MALE	IFM AC2484 I/O module	M8 A-CODE 3-PIN FEMALE	Autoswap cup sensor	0.3m	BG	106616	125056
CBL-213-4	M8 A-CODE 3-PIN MALE	IFM AC2484 I/O module	M8 A-CODE 3-PIN FEMALE	Autoswap cup sensor	0.3m	BG	106616	125056
CBL-213-5	M12 A-CODE 4-PIN FEMALE	IFM AC2484 I/O module	M12 A-CODE 4-PIN MALE	AS-i splitter to M12	5m	BG	105710	125056
CBL-221-1	Flying 3-C	Main Cabinet	Flying 3-C	C90XT robot cabinet	25m	BG	110267	125056
CBL-221-2	Flying 4-C	Main Cabinet	7/8-16UN 4-PIN FEMALE	Pneumatic control module	25m	BG	109746	125056
CBL-221-3	Flying 5-C	Main Cabinet	M12 A-CODE 5-PIN FEMALE	Pneumatic control module	25m	BG	109823	125056
CBL-222-1	M12 A-CODE 12-PIN MALE	C90XT robot cabinet	M12 A-CODE 12-PIN FEMALE	Robot arm	10m	BG	109437-100	125056
CBL-222-2	M12 X-CODE 8-PIN MALE	C90XT robot cabinet	RJ45	Managed network switch	10m	BG	105691	125056

EL PASO 124915-06 rev:A

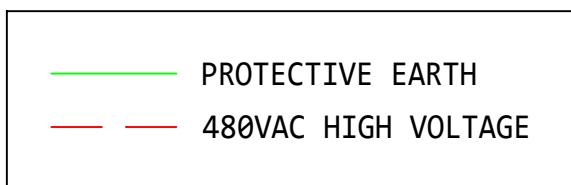
REV	DATE	ENGR.	DESCRIPTION	BERKSHIRE GREY	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-04-30 SCALE N/A DRAWN MPH APPROVED	DOCUMENT PACKAGE OVERVIEW INTERCONNECT DRAWING PACKAGE CABLE REFERENCE	REV A	SECT. PREV. SHEET 5 OVERVIEW 4 NEXT 6	JOB# 125400-01 DWG RPS-05
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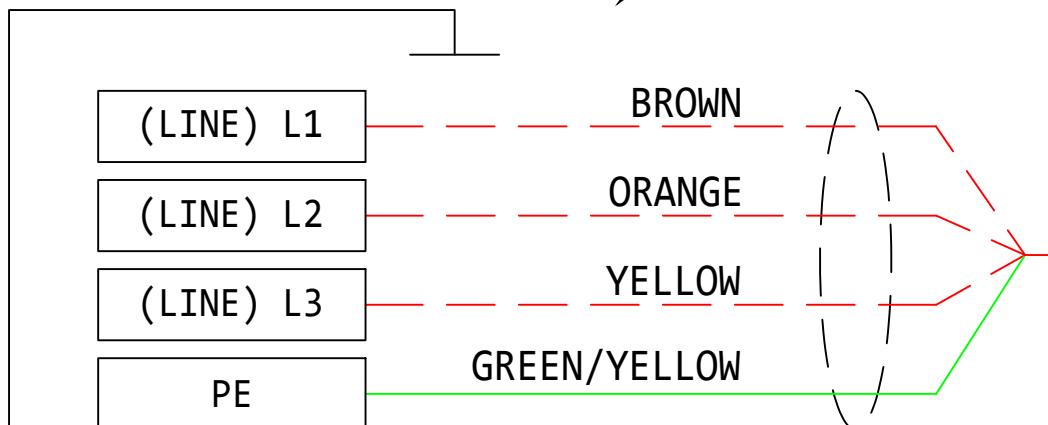


EL PASO 124915-06 rev:A

A



MAIN DISCONNECT  
(MOUNTED TO ZPD CABINET)

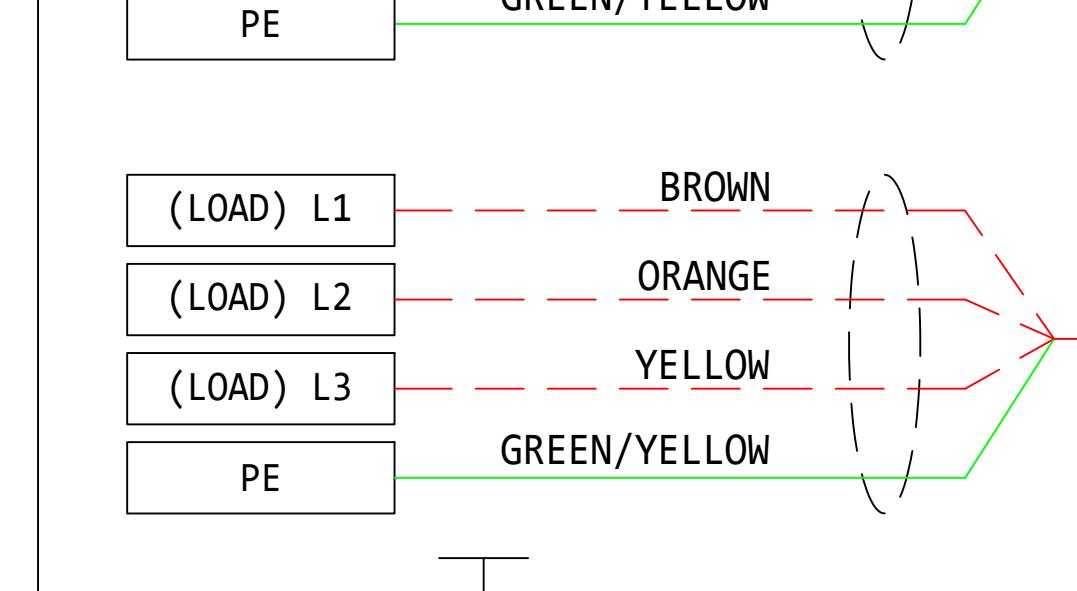


NOTE: Each electrical cabinet has its own disconnect on the door panel, but the Main Disconnect serves as a unified lockout point for the system and should be used for all system lockout operations.

4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-11-2

FACILITY  
480VAC DROP

B



4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-11-1

RPS CABINET



C

SCHNEIDER VH363

D

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



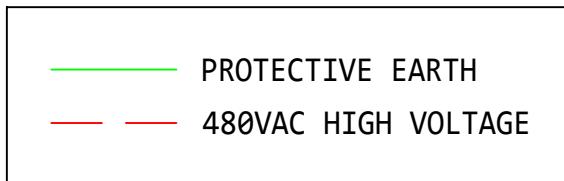
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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

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

REV	SECT.	DETAIL	JOB#
	PREV.	10	BG 125401-02
	SHEET	11	
A	NEXT	12	DWG RPS-11

A

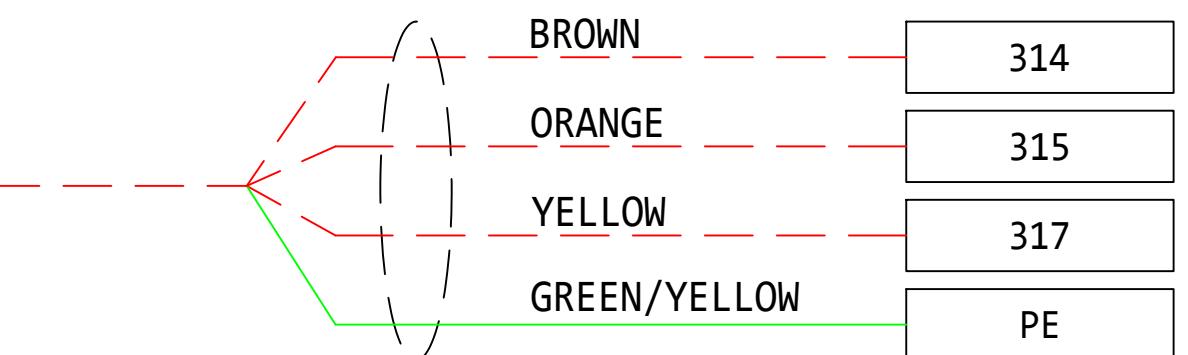


*NOTE: Each 480VAC phase terminal block is fused with a 6A fuse.*

B

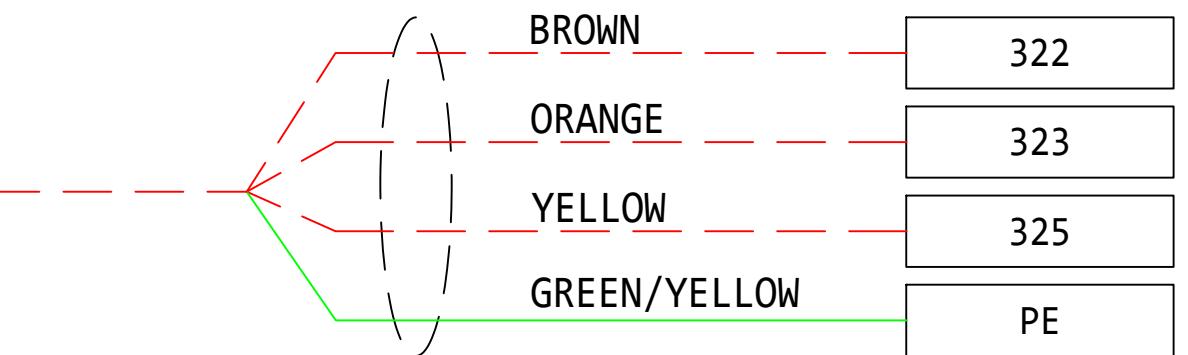
4-SPAN  
SIDE A

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



C

4-SPAN  
SIDE B



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

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



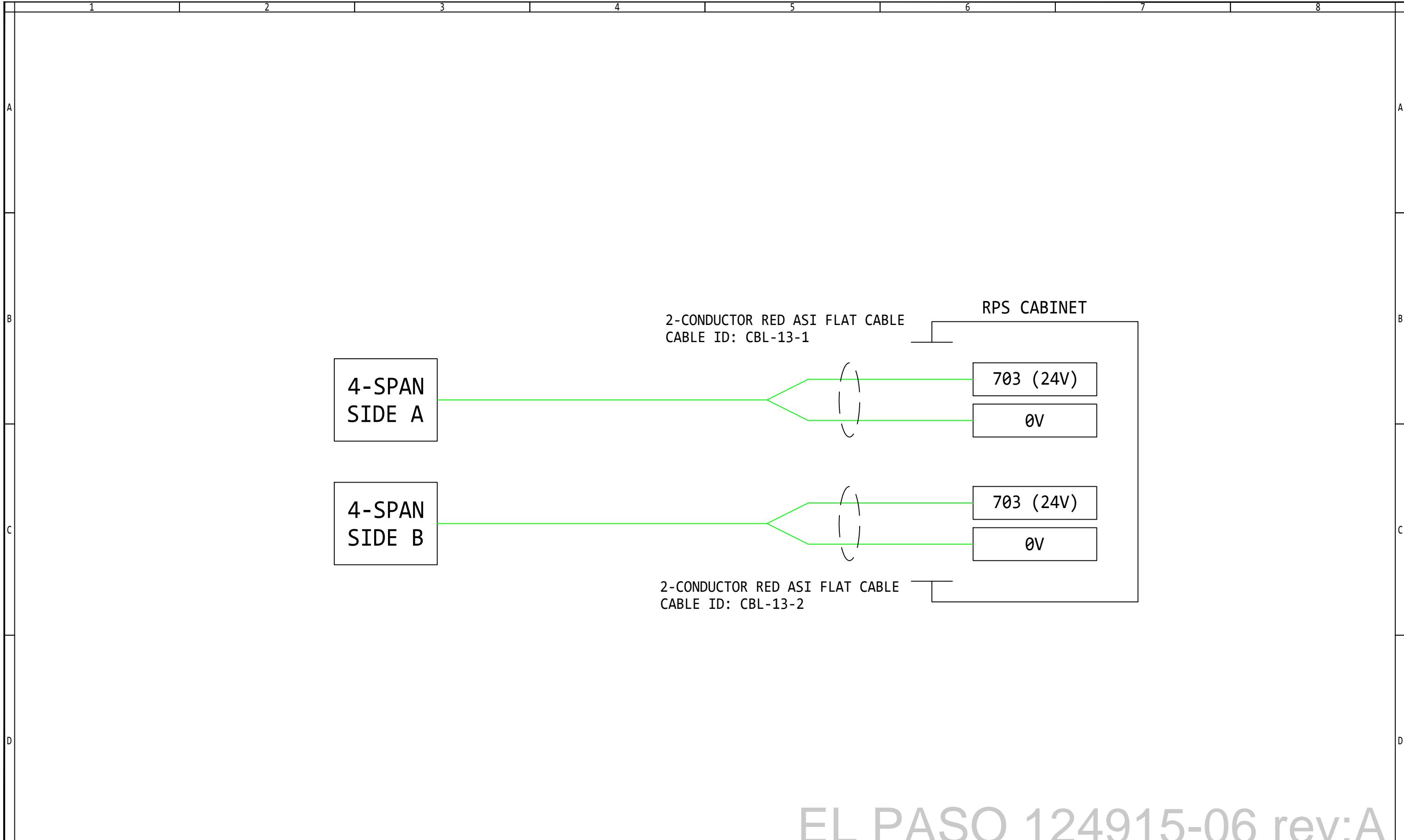
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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

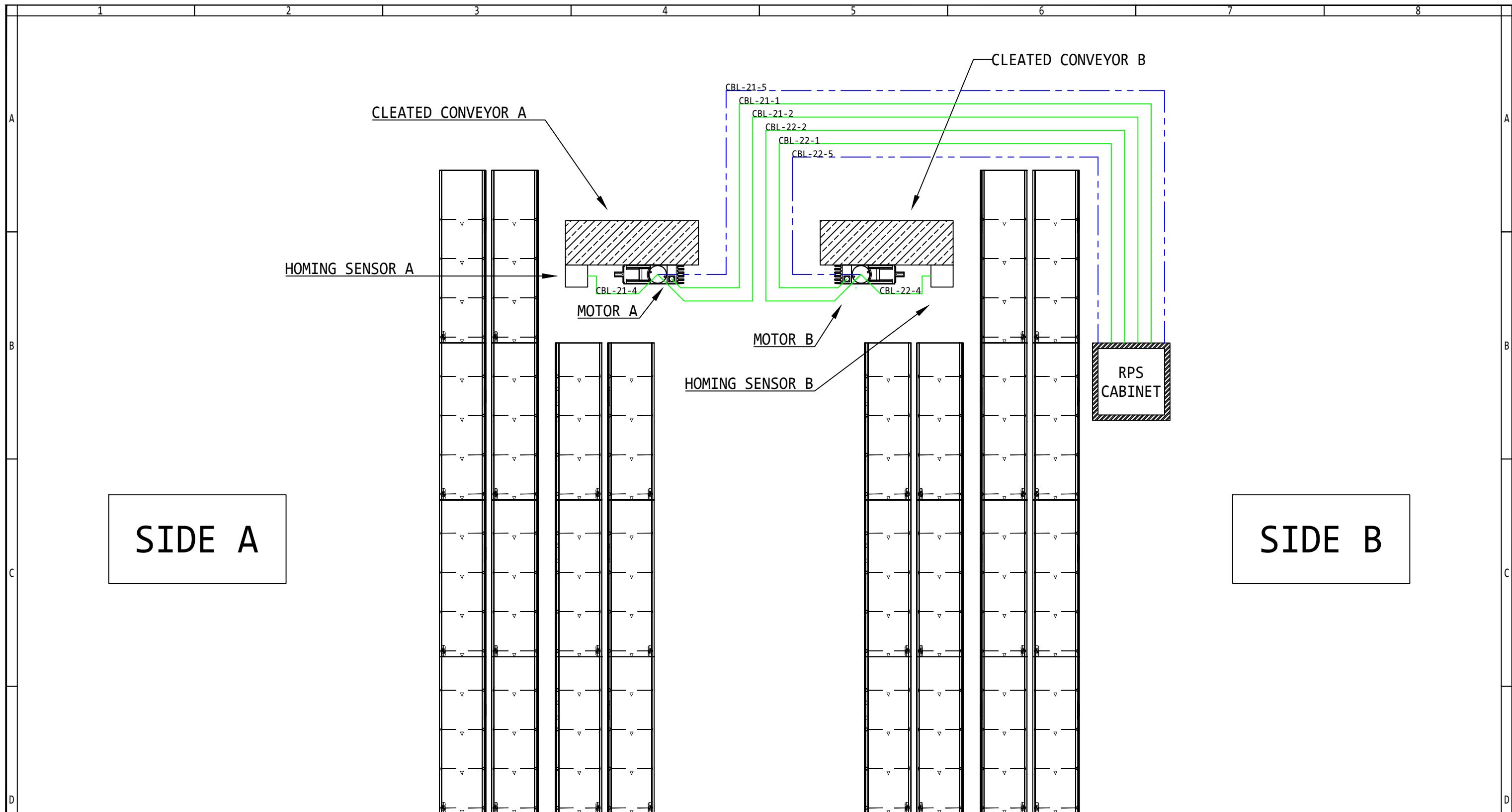
FACILITY WIRING MODULE  
INTERCONNECT DRAWING PACKAGE  
4-SPAN 480VAC POWER - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	11	BG 125401-02
	SHEET	12	
A	NEXT	13	DWG RPS-12

1 2 3 4 5 6 7 8



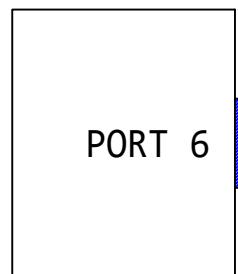
REV	DATE	ENGR.	DESCRIPTION	BERKSHIRE GREY	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-04-30 SCALE N/A DRAWN RBL APPROVED	FACILITY WIRING MODULE INTERCONNECT DRAWING PACKAGE 4-SPAN LOGIC POWER - WIRING	REV A	SECT. PREV. 12 DETAIL SHEET 13	JOB# BG 125401-02 DWG RPS-13
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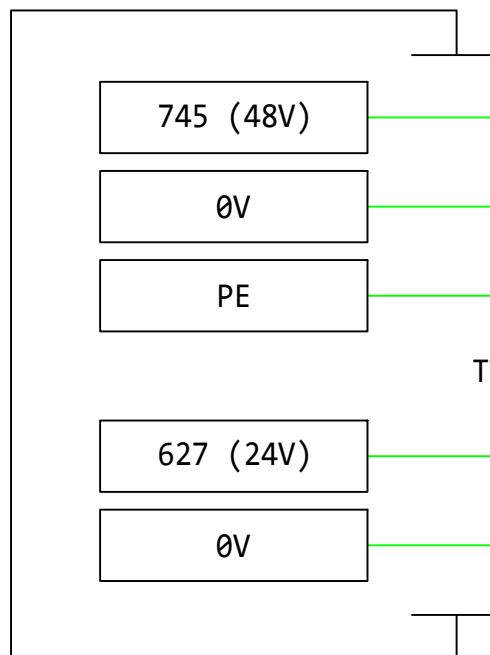
EL PASO 124915-06 rev:A

1 2 3 4 5 6 7 8

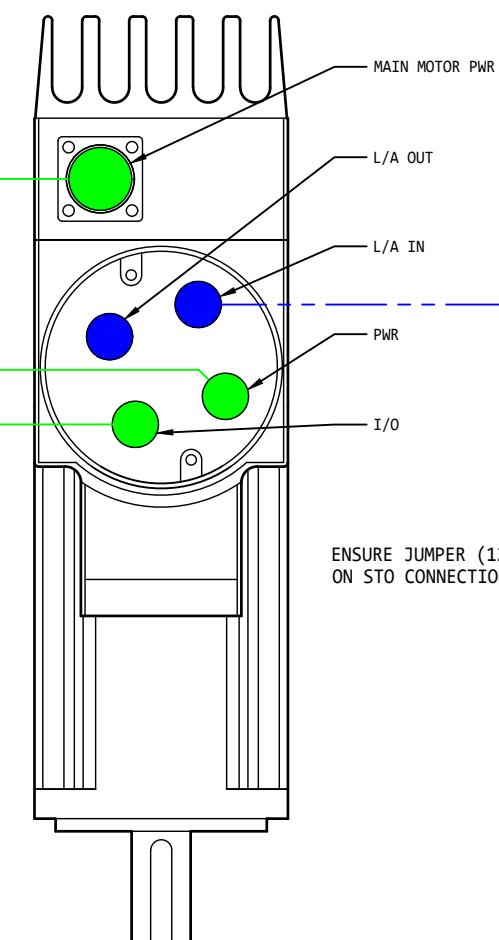
## SIDE A

UNMANAGED  
NETWORK SWITCHM12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-21-5

RPS CABINET



TWIST WIRES TOGETHER AND FERRULE

7-PIN M16 FEMALE to FLYING  
CABLE ID: CBL-21-1RED  
RED  
RED  
BLACK  
BLACK  
BLACK  
GREEN/YELLOWBROWN  
WHITE  
BLUE  
BLACK  
GREYMOTOR A  
JVL MAC4025-PIN M12 FEMALE to FLYING  
CABLE ID: CBL-21-2TO HOMING SENSOR SIDE A  
(See RPS-023 for wiring details)17-PIN M12 MALE to FLYING  
CABLE ID: CBL-21-4

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

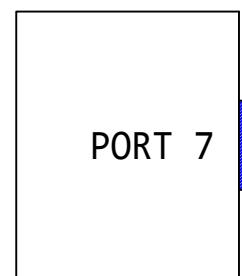
CLEATED CONVEYOR MOTOR MODULE  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTOR WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	20	BG 125402-01
SHEET	21		
NEXT	22		DWG RPS-21

1 2 3 4 5 6 7 8

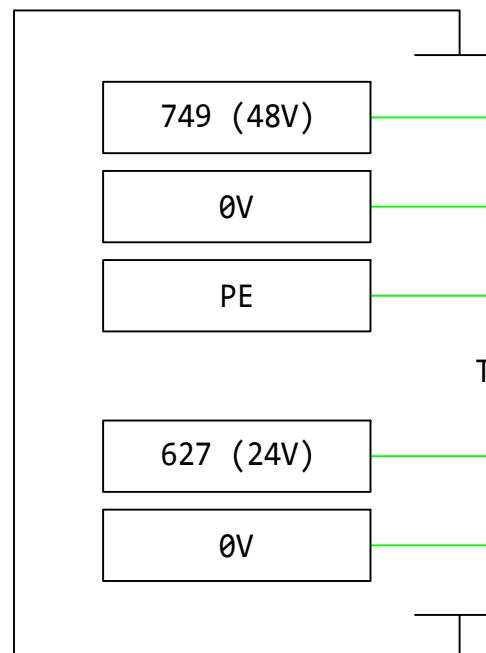
## SIDE B

UNMANAGED  
NETWORK SWITCH



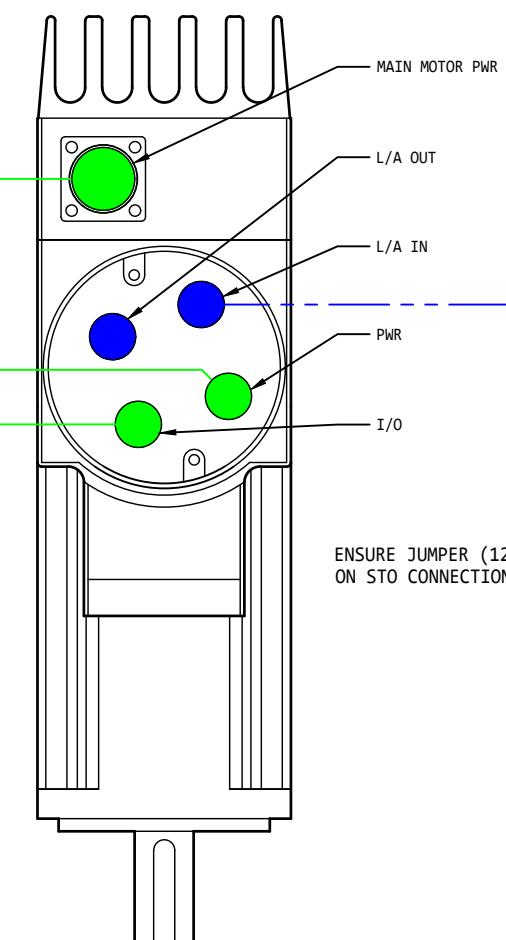
M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-22-5

RPS CABINET



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

MOTOR B  
JVL MAC402



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

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

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

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

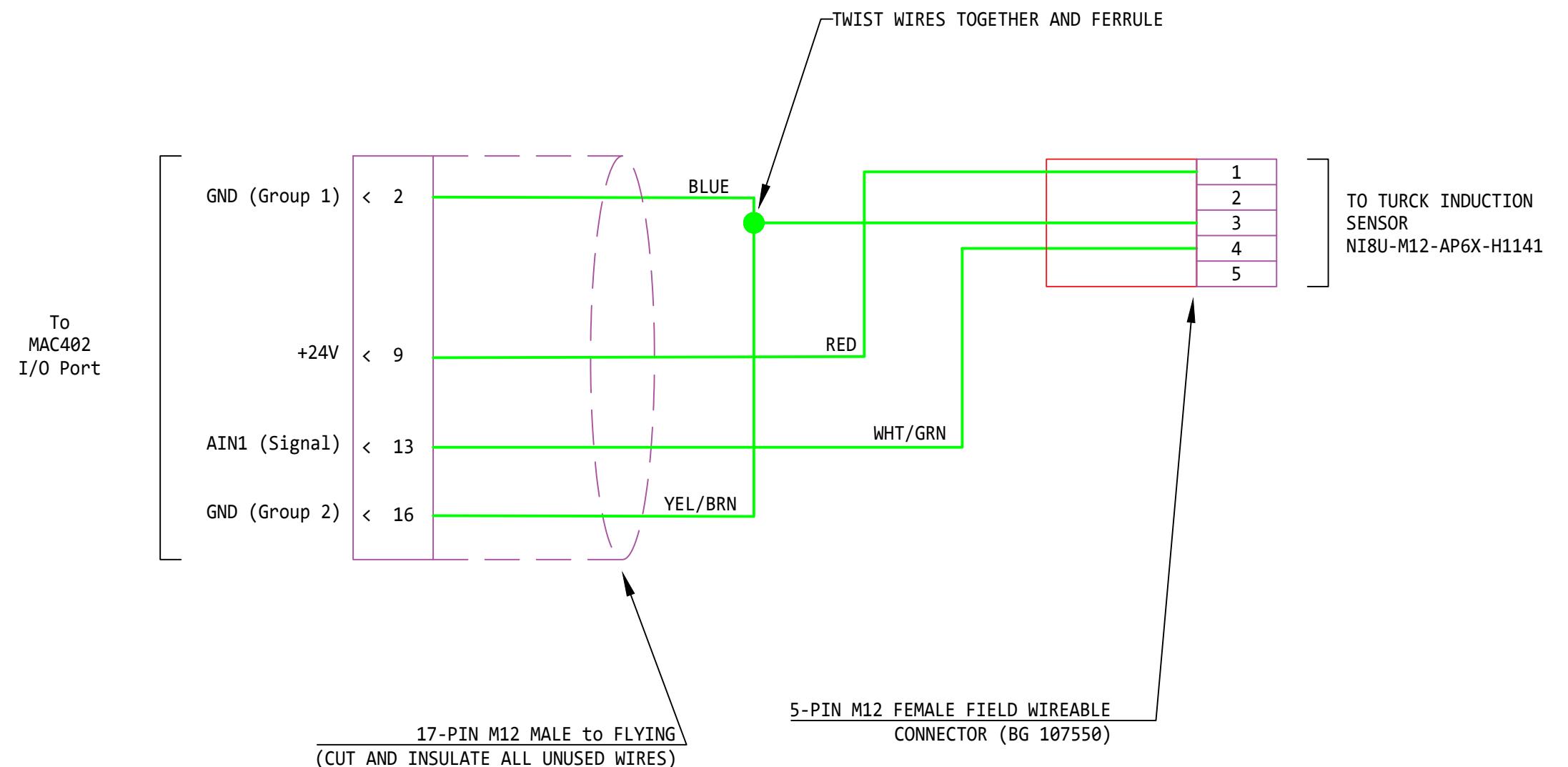
CLEATED CONVEYOR MOTOR MODULE  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTOR WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
	PREV.	21	BG 125402-01
	SHEET	22	
A	NEXT	23	DWG RPS-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



EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

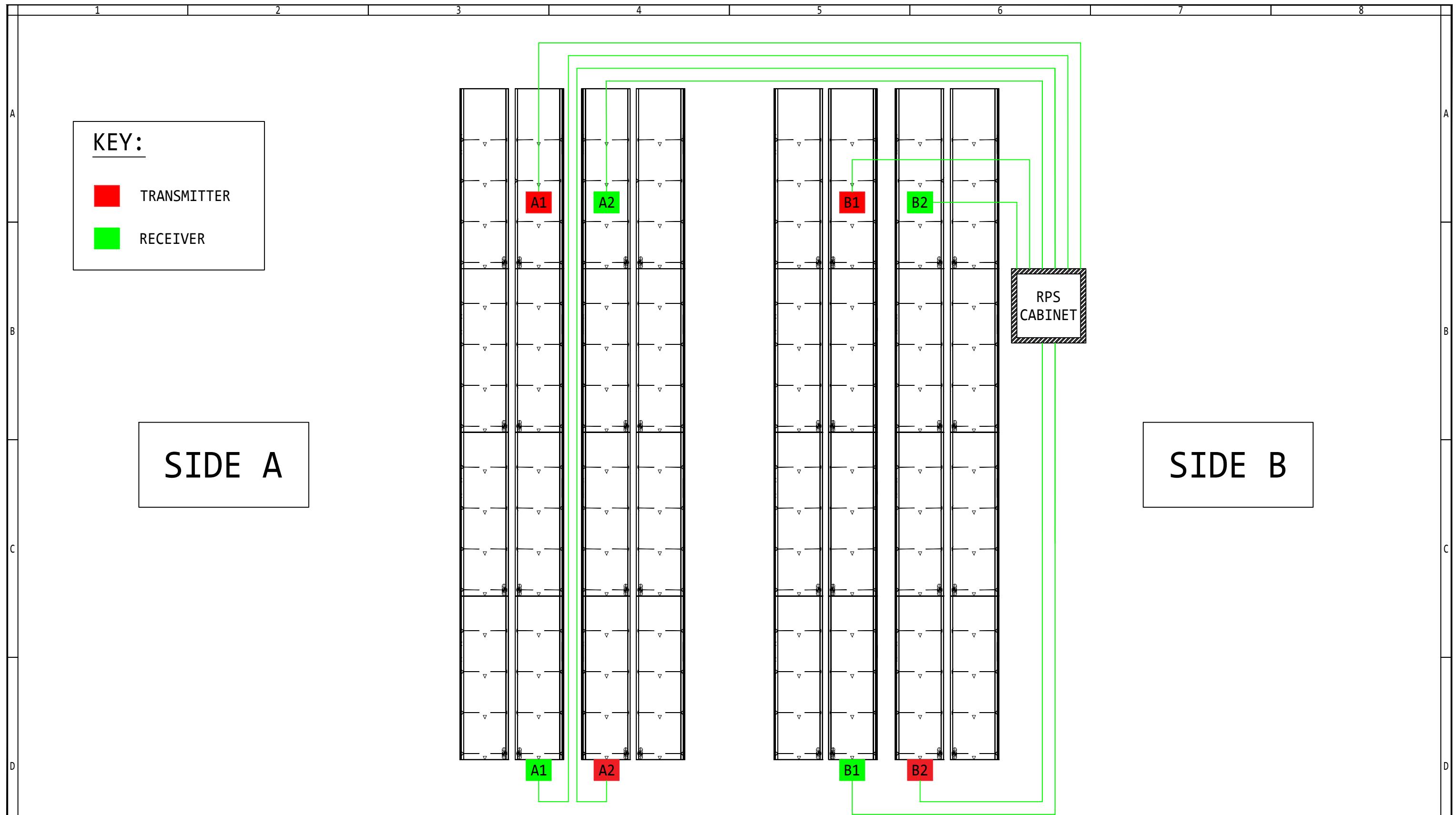


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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

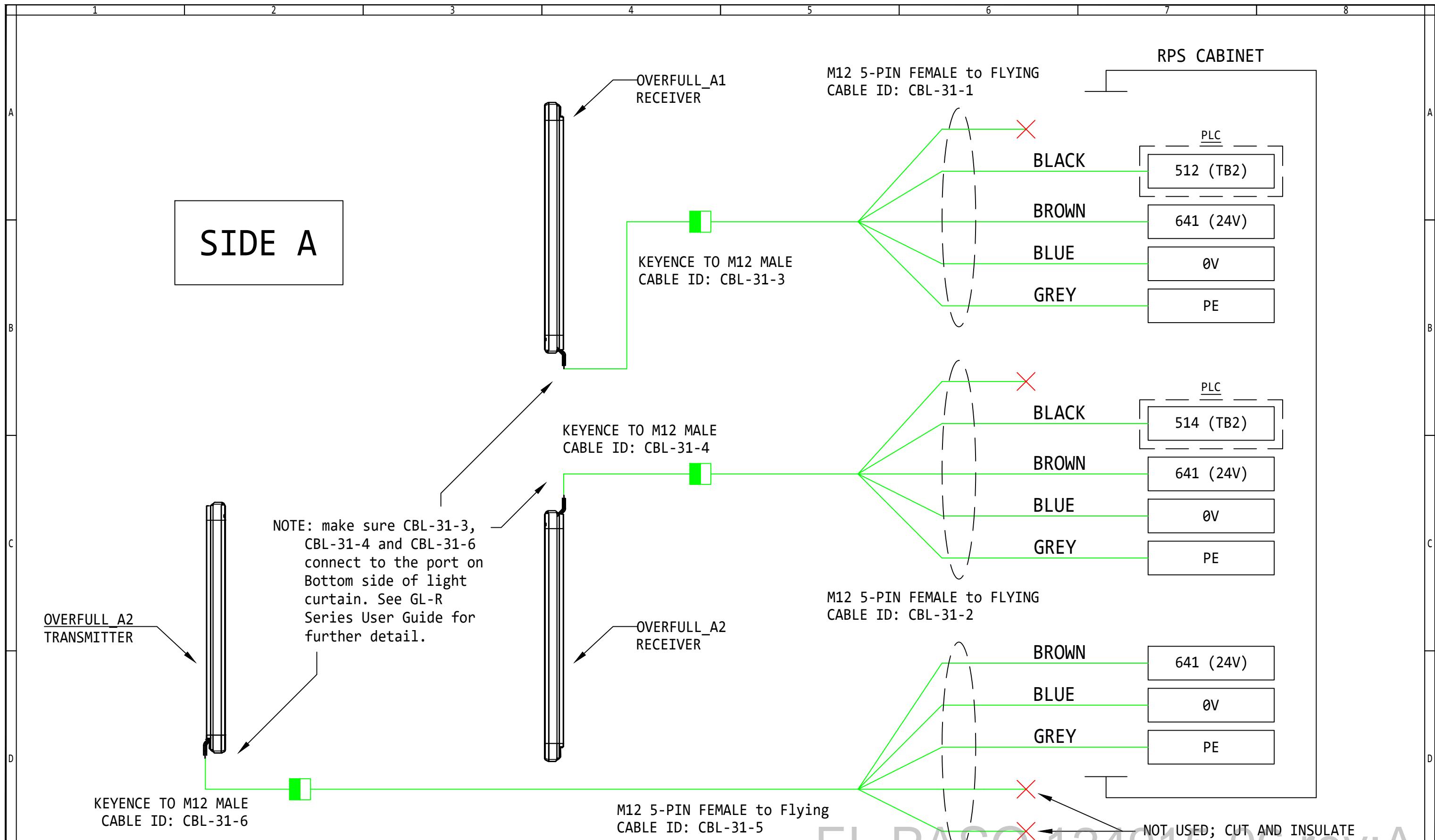
CLEATED CONVEYOR MOTOR MODULE  
INTERCONNECT DRAWING PACKAGE  
HOMING SENSOR WIRING - BOTH SIDES

REV	SECT.	DETAIL	JOB#
	PREV.	22	BG 125402-01
A	SHEET	23	RPS-23
	NEXT		

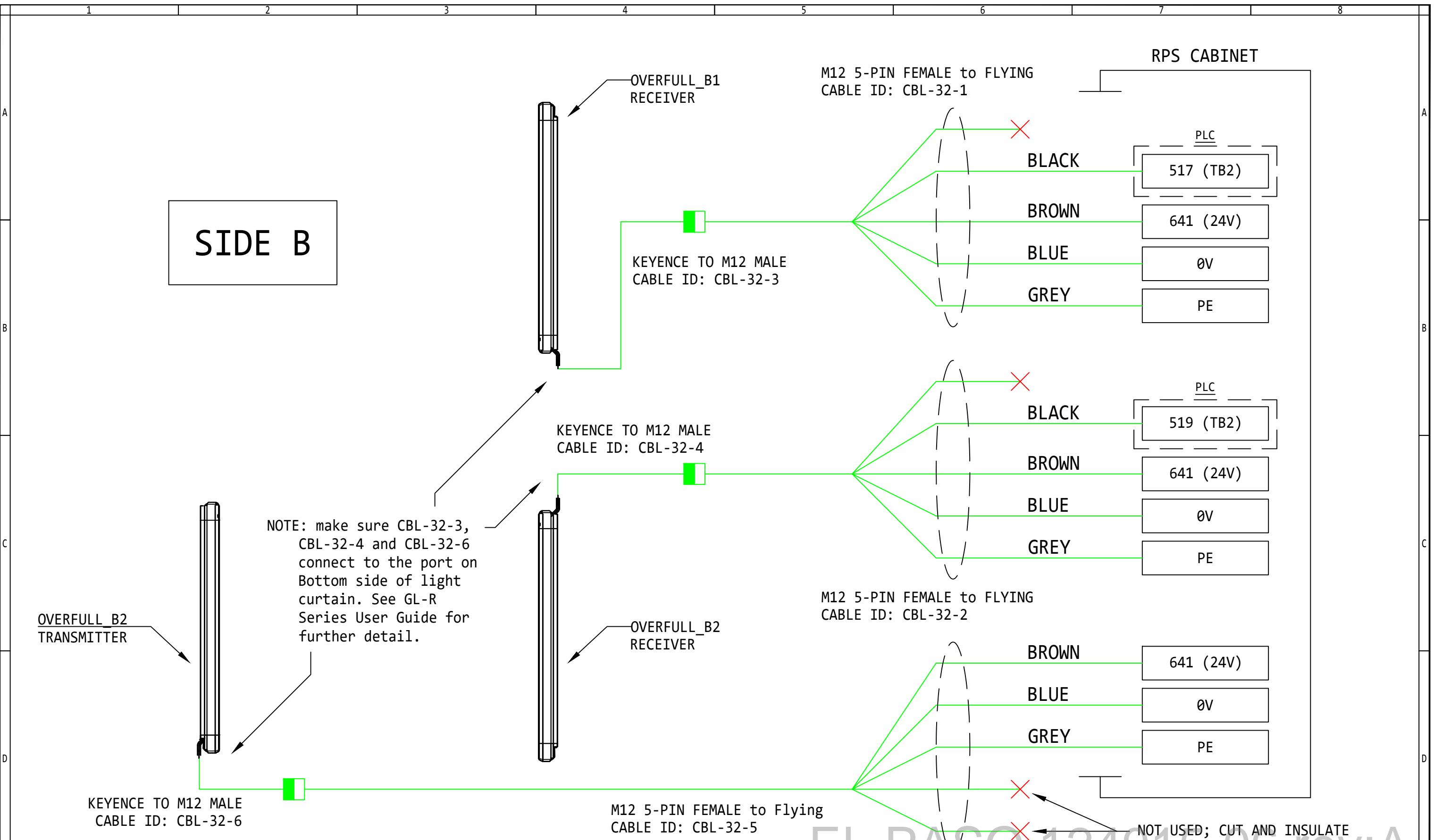


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REV	DATE	ENGR.	DESCRIPTION	BG BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-04-30 SCALE N/A DRAWN RBL APPROVED	OVERFULL LIGHT CURTAIN MODULE INTERCONNECT DRAWING PACKAGE OVERFULL LIGHT CURTAINS - OVERVIEW	REV A	SECT. OVERVIEW PREV. SHEET 30 NEXT 31	JOB# BG 125403-01 DWG RPS-30
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EL PASO 124915-06 rev:A



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

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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

OVERFULL LIGHT CURTAIN MODULE  
INTERCONNECT DRAWING PACKAGE  
OVERFULL LIGHT CURTAIN WIRING - SIDE B

REV	SECT. PREV.	DETAIL	JOB#
A	31	32	BG 125403-01
	32	33	DWG RPS-32

EL PASO 124915-06 rev:A

OVERFULL A1  
TRANSMITTER

KEYENCE TO M12 MALE  
CABLE ID: CBL-33-3

OVERFULL B1  
TRANSMITTER

KEYENCE TO M12 MALE  
CABLE ID: CBL-33-4

NOTE: make sure CBL-33-3 and  
CBL-33-4 connect to the  
port on Bottom side of  
light curtain. See GL-R  
Series User Guide for  
further detail.

M12 5-PIN FEMALE to Flying  
CABLE ID: CBL-33-2

M12 5-PIN FEMALE to Flying  
CABLE ID: CBL-33-1

RPS CABINET

BROWN

BLUE

641 (24V)

0V

BROWN

BLUE

641 (24V)

0V

NOT USED; CUT AND INSULATE

OVERFULL LIGHT CURTAIN MODULE  
INTERCONNECT DRAWING PACKAGE  
OVERFULL LIGHT CURTAIN WIRING - A1/B1 TX

REV A SECT. 32 PREV. 32  
SHEET 33 NEXT DWG RPS-33

REV	DATE	ENGR.	DESCRIPTION



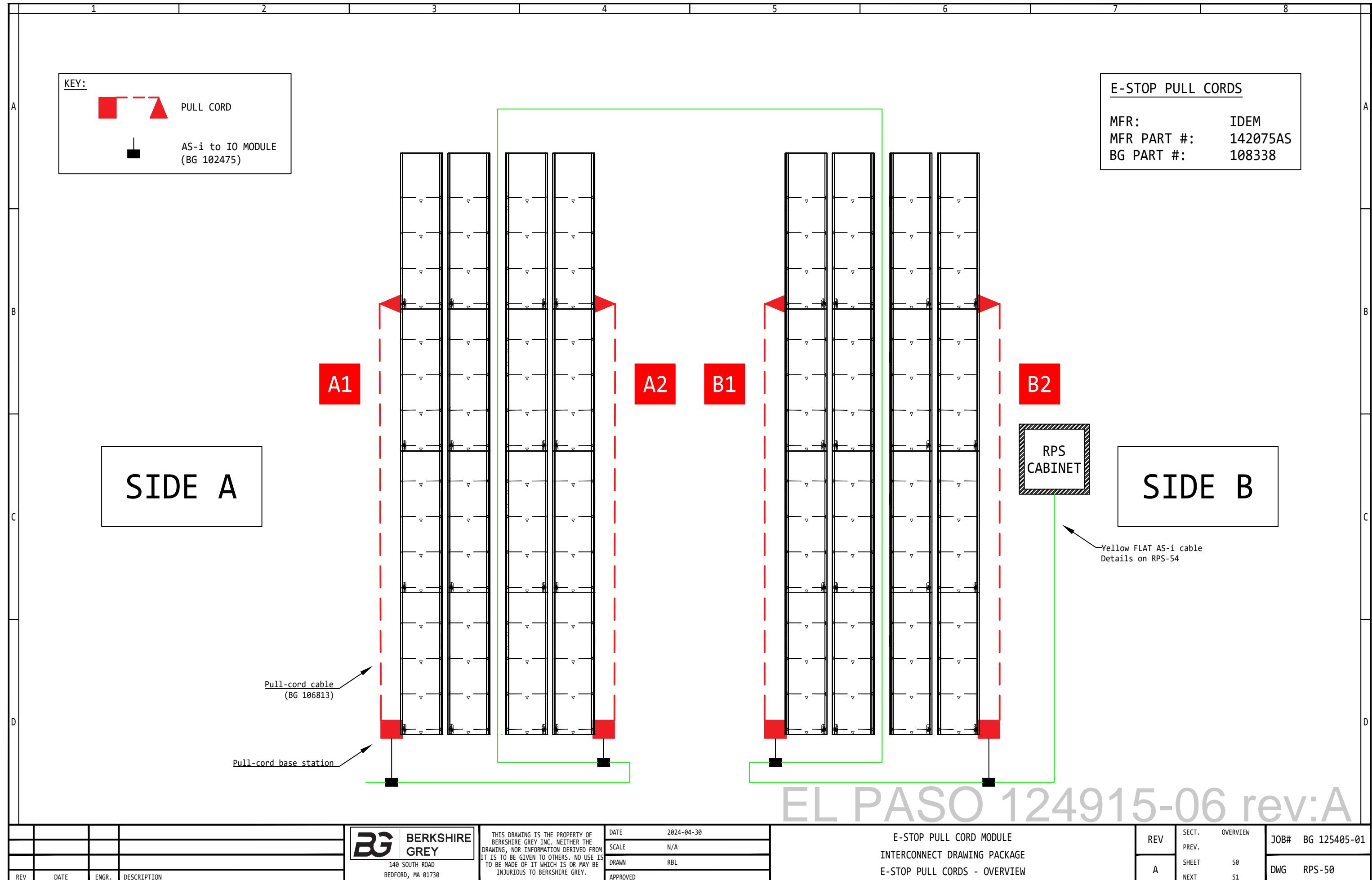
BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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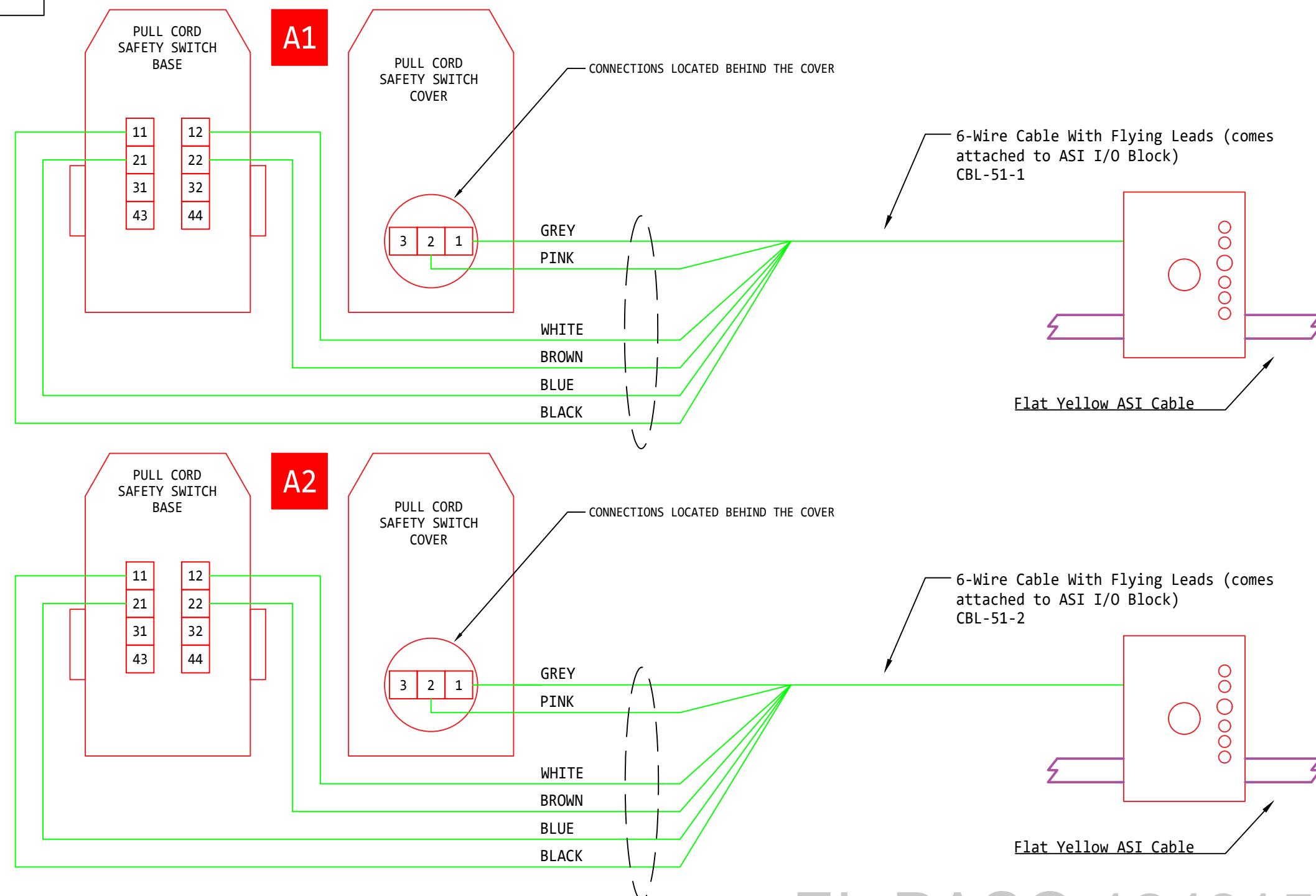
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

EL PASO 124915-06 rev:A

1 2 3 4 5 6 7 8



SIDE A



EL PASO 124915-06 rev:A

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

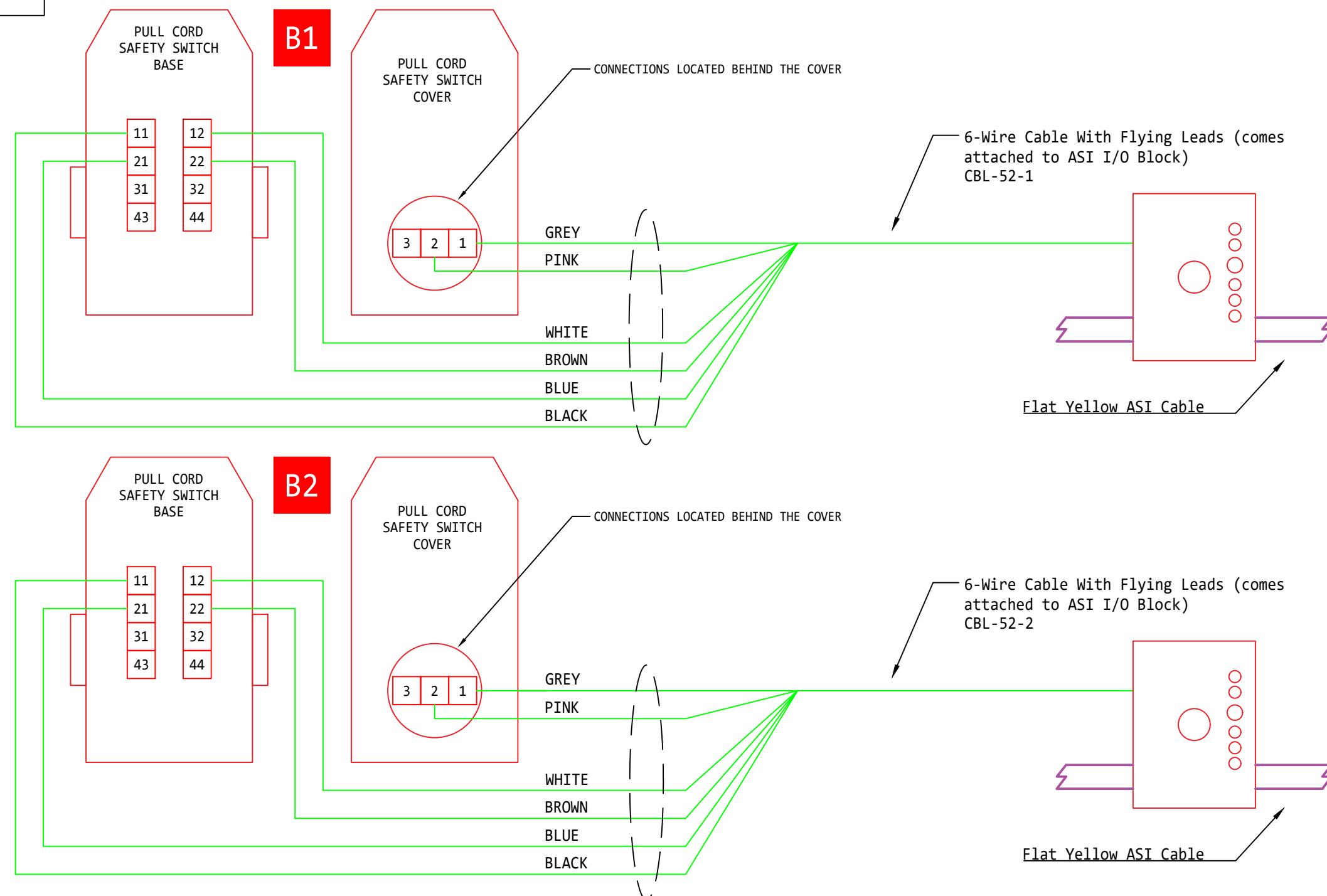
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DATE 2024-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

REV	SECT.	DETAIL	JOB#
PREV.	50		BG 125405-01
SHEET	51		RPS-51
NEXT	52		

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

SIDE B



EL PASO 124915-06 rev:A

				BERKSHIRE GREY	140 SOUTH ROAD BEDFORD, MA 01730
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 SCALE DRAWN APPROVED	2024-04-30 N/A RBL 

DATE SCALE DRAWN APPROVED	REV	SECT. PREV. SHEET NEXT	DETAIL 51 52 53	JOB#
2024-04-30 N/A RBL 	A			BG 125405-01 RPS-52

A

# REFERENCE

B

C

D

A

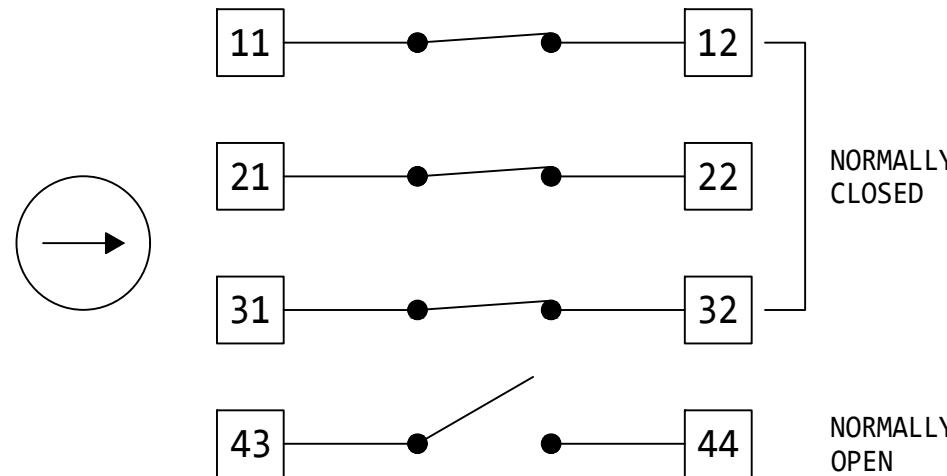
B

C

D

## PULL CORD BASE INTERNAL OPERATION

ESTOP SWITCH



NORMALLY  
CLOSED

NORMALLY  
OPEN

INDICATOR LIGHT

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

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

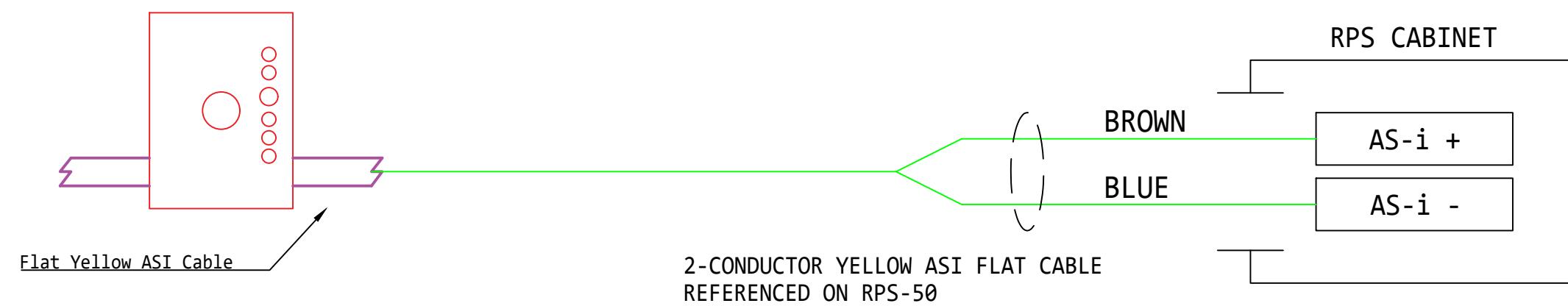
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DATE	2024-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

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

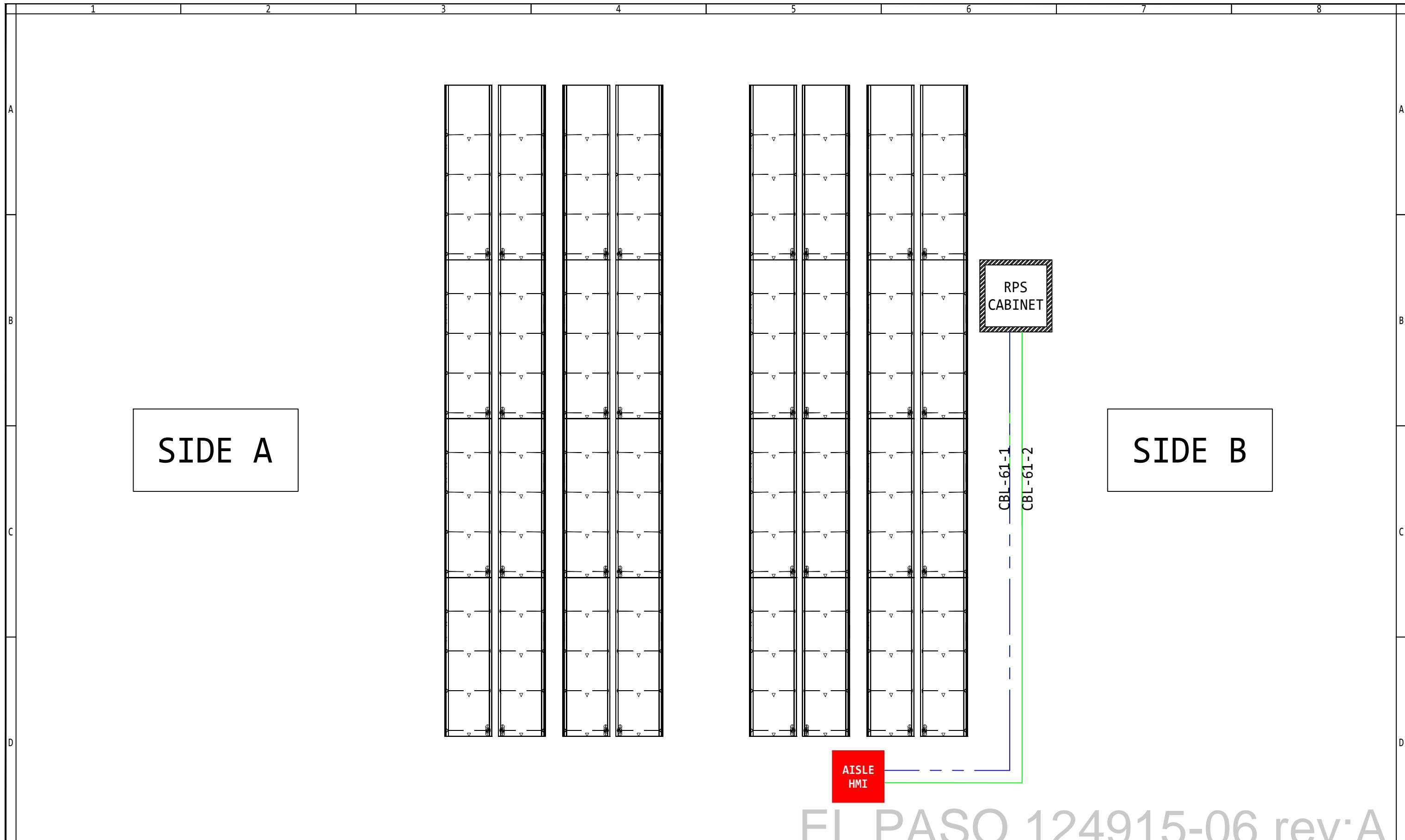
REV	SECT.	REFERENCE	JOB#
PREV.		52	BG 125405-01
SHEET		53	
NEXT		54	RPS-53

# REFERENCE



EL PASO 124915-06 rev:A

1 2 3 4 5 6 7 8



EL PASO 124915-06 rev:A

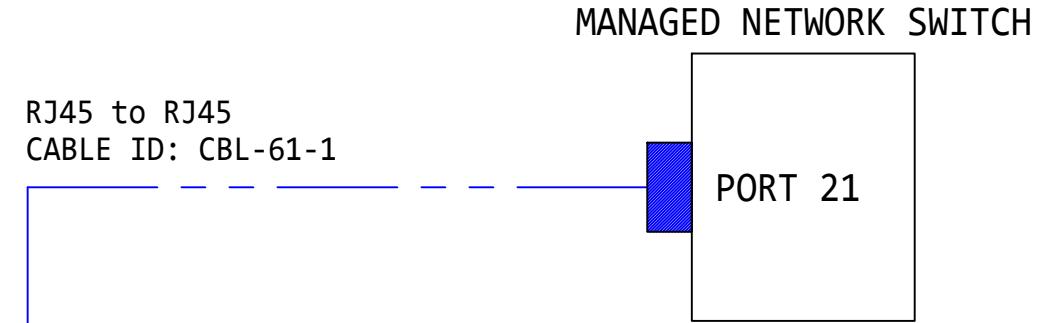
REV	DATE	ENGR.	DESCRIPTION	BERKSHIRE GREY	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-04-30	SCALE N/A	DRAWN RBL	APPROVED	HMI MODULE INTERCONNECT DRAWING PACKAGE HMI - OVERVIEW	REV A	SECT. OVERVIEW PREV. SHEET 60	JOB# BG 125406-01
												NEXT 61	DWG RPS-60



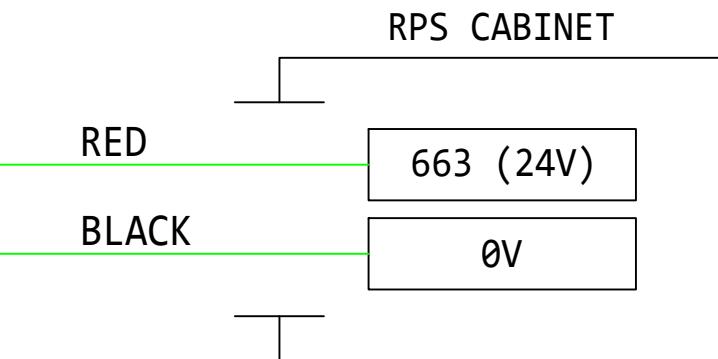
LAN PORT

DC IN 12-24V

GND



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



EL PASO 124915-06 rev:A

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

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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

HMI MODULE  
INTERCONNECT DRAWING PACKAGE  
AISLE HMI - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	60	BG 125406-01
	SHEET	61	RPS-61
	NEXT		DWG

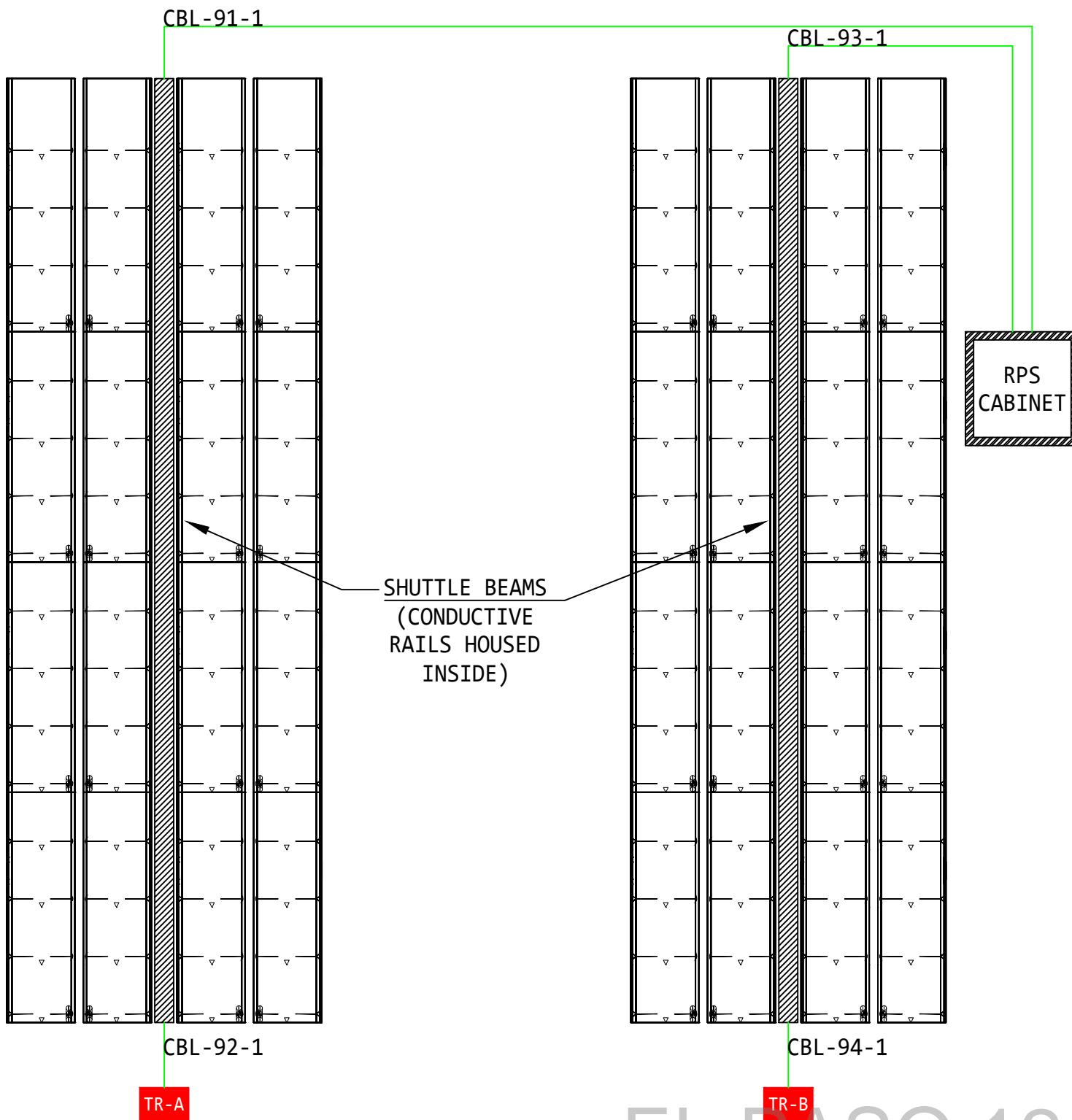
1 2 3 4 5 6 7 8

A

**KEY:**

 TERMINATING RESISTOR

**SIDE A**



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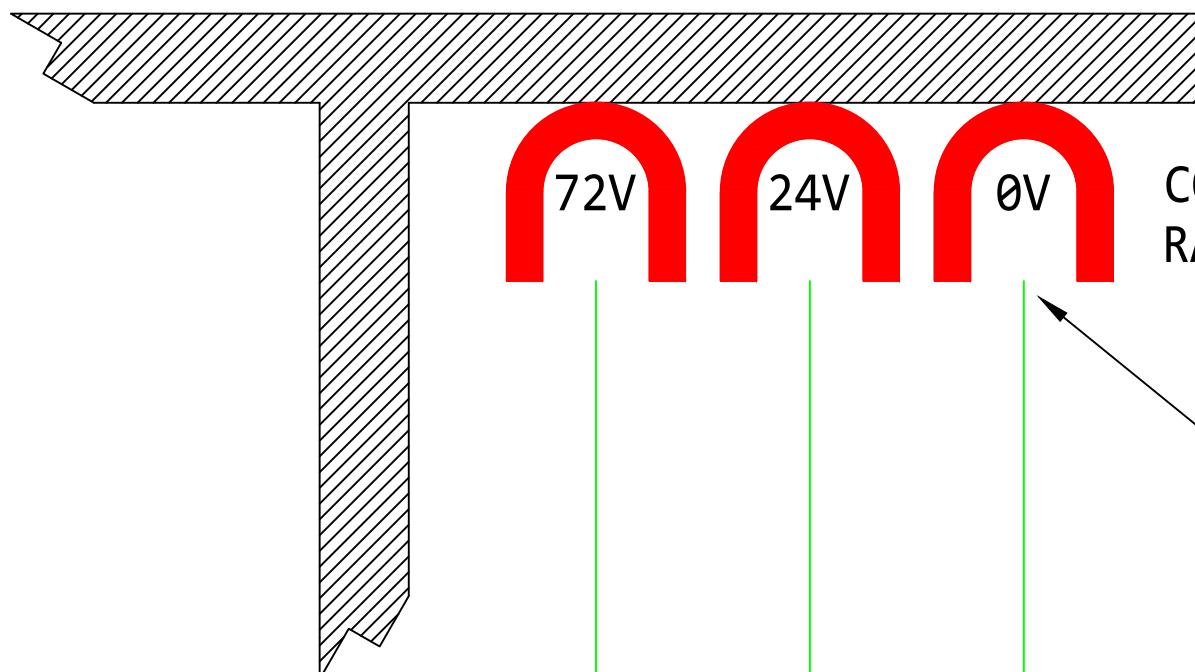
DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

CONDUCTIVE RAILS MODULE  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAILS - OVERVIEW

REV	SECT.	OVERVIEW	JOB#
	PREV.		BG 125409-01
A	SHEET	90	RPS-90
	NEXT	91	

SIDE A

I-BEAM CROSS SECTION: SIDE  
NEAREST OPERATOR STATION



CONDUCTIVE  
RAILS

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

RPS CABINET

GREEN  
BLACK  
WHITE

- FILTERED 0V
- 728  
(FILTERED 24V)
- 760 (72V)

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

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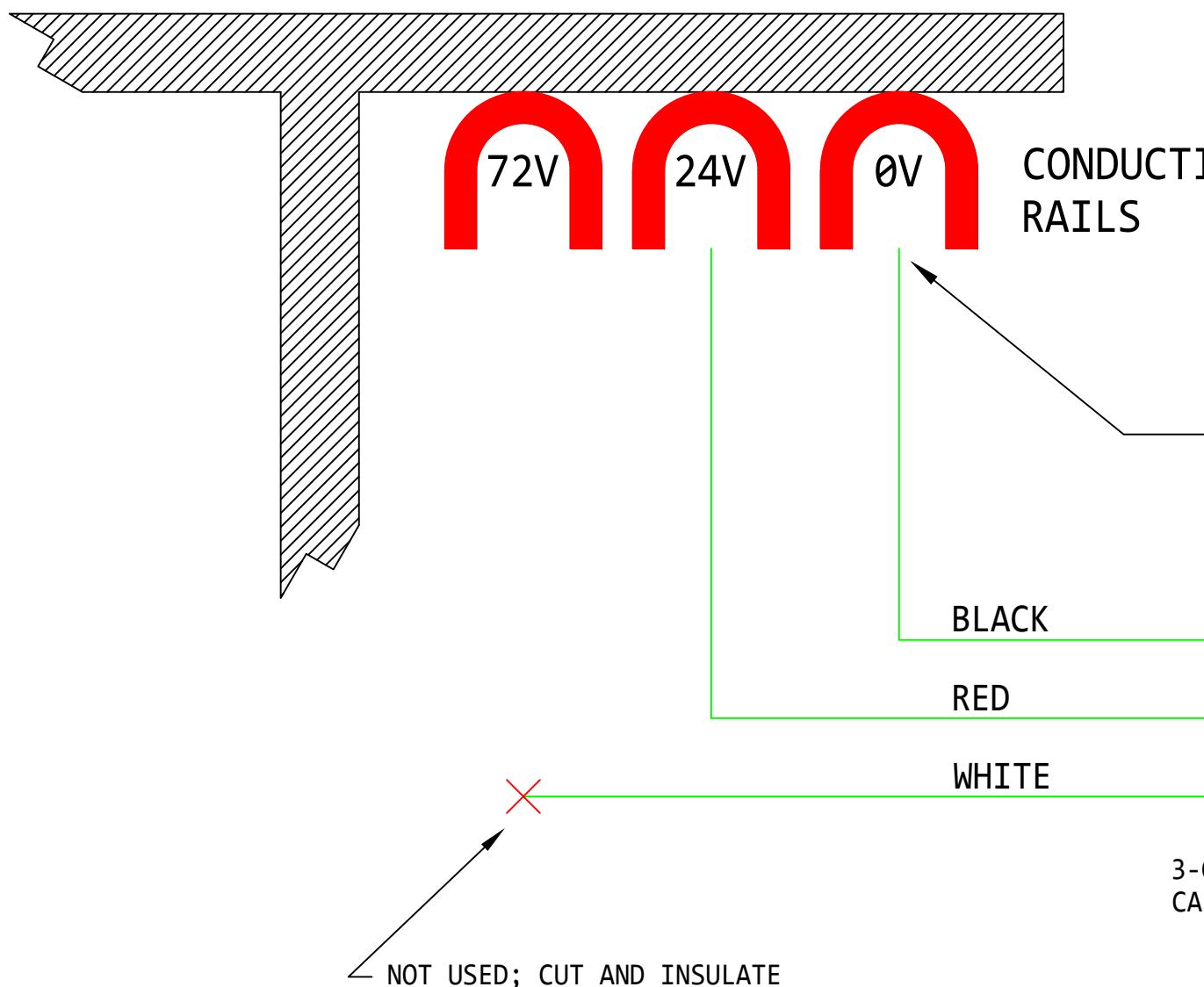
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

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

REV A  
SECT. PREV. 90  
DETAIL SHEET 91  
JOB# BG 125409-01  
NEXT 92  
DWG RPS-91

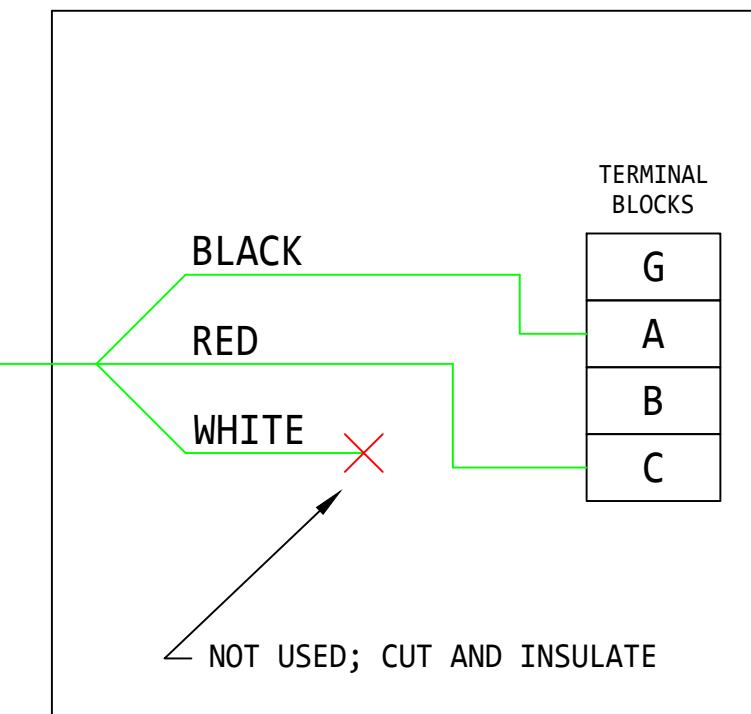
SIDE A

## 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.

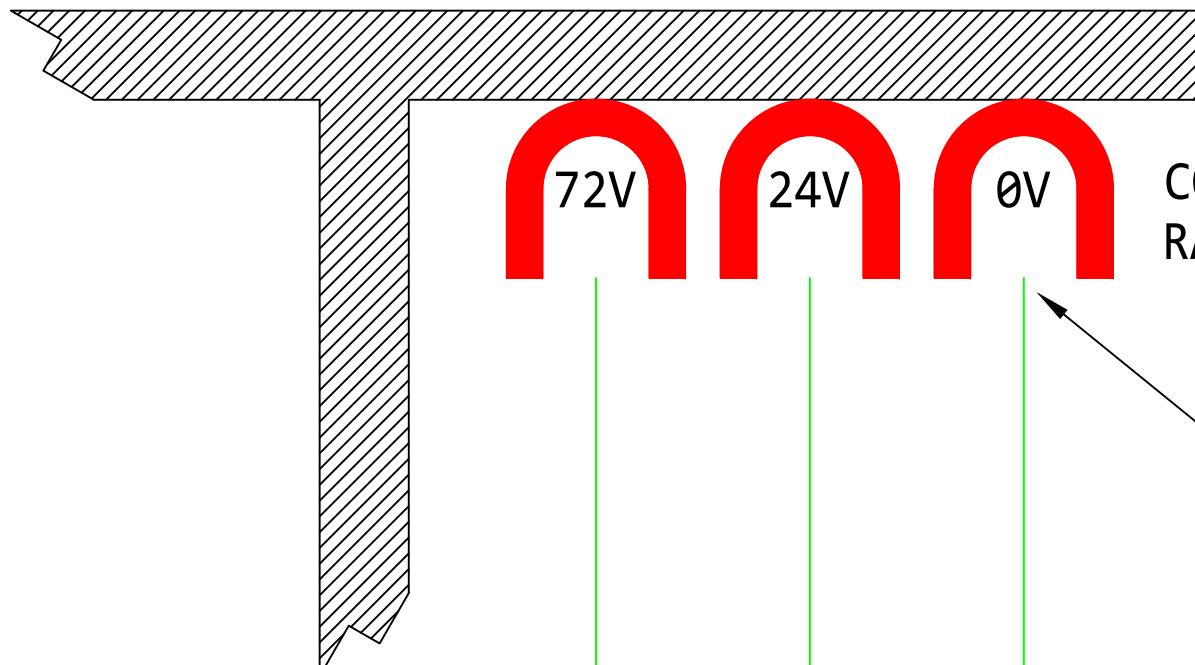
## CONDUCTIX TERMINATING RESISTOR ENCLOSURE



EL PASO 124915-06 rev:A

SIDE B

I-BEAM CROSS SECTION: SIDE  
NEAREST OPERATOR STATION



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

RPS CABINET

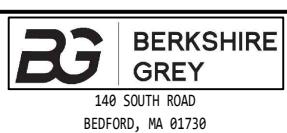
GREEN  
BLACK  
WHITE

- FILTERED 0V
- 728 (FILTERED 24V)
- 762 (72V)

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

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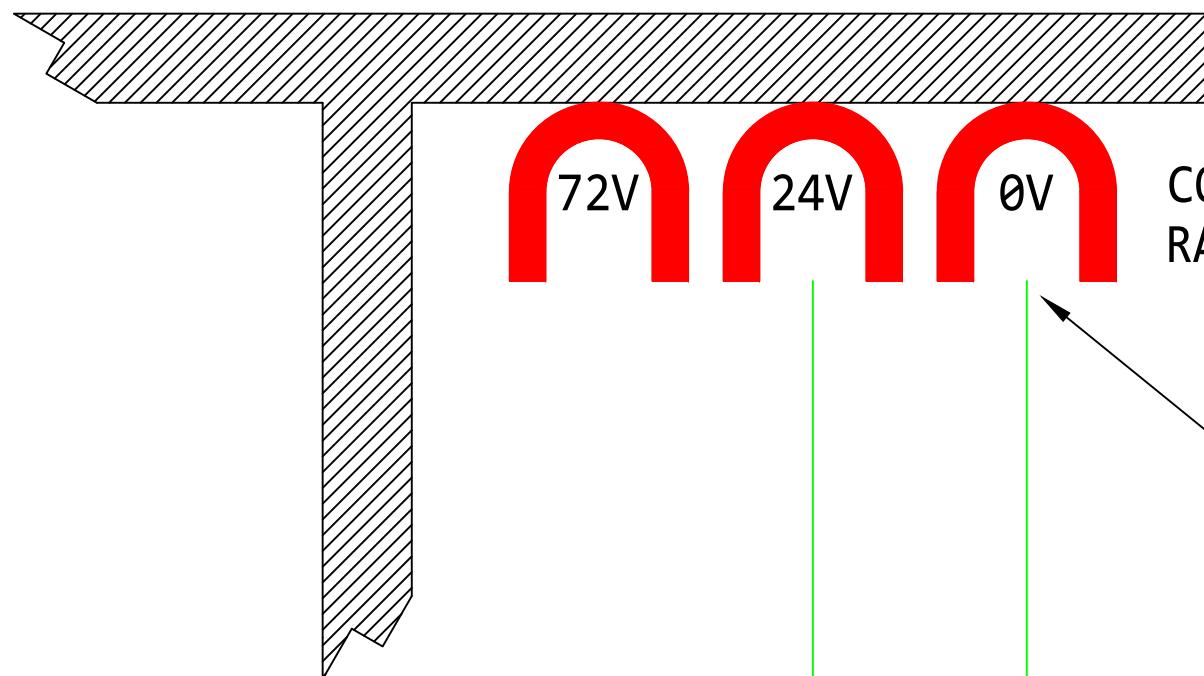
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

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

REV	SECT.	DETAIL	JOB#
A	PREV.	92	BG 125409-01
	SHEET	93	
	NEXT	94	DWG RPS-93

SIDE B

I-BEAM CROSS SECTION: SIDE  
OPPOSITE OPERATOR STATION



CONDUCTIVE  
RAILS

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

BLACK

RED

WHITE

3-CONDUCTOR 12-AWG SOOW CABLE  
CABLE ID: CBL-94-1

NOT USED; CUT AND INSULATE

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

TERMINAL BLOCKS

G
A
B
C

BLACK

RED

WHITE

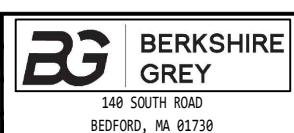
NOT USED; CUT AND INSULATE

EL PASO 124915-06 rev:A

CONDUCTIVE RAILS MODULE  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - TERMINATING RESISTOR - SIDE B

REV	SECT.	DETAIL	JOB#
A	PREV.	93	BG 125409-01
	SHEET	94	
	NEXT		DWG RPS-94

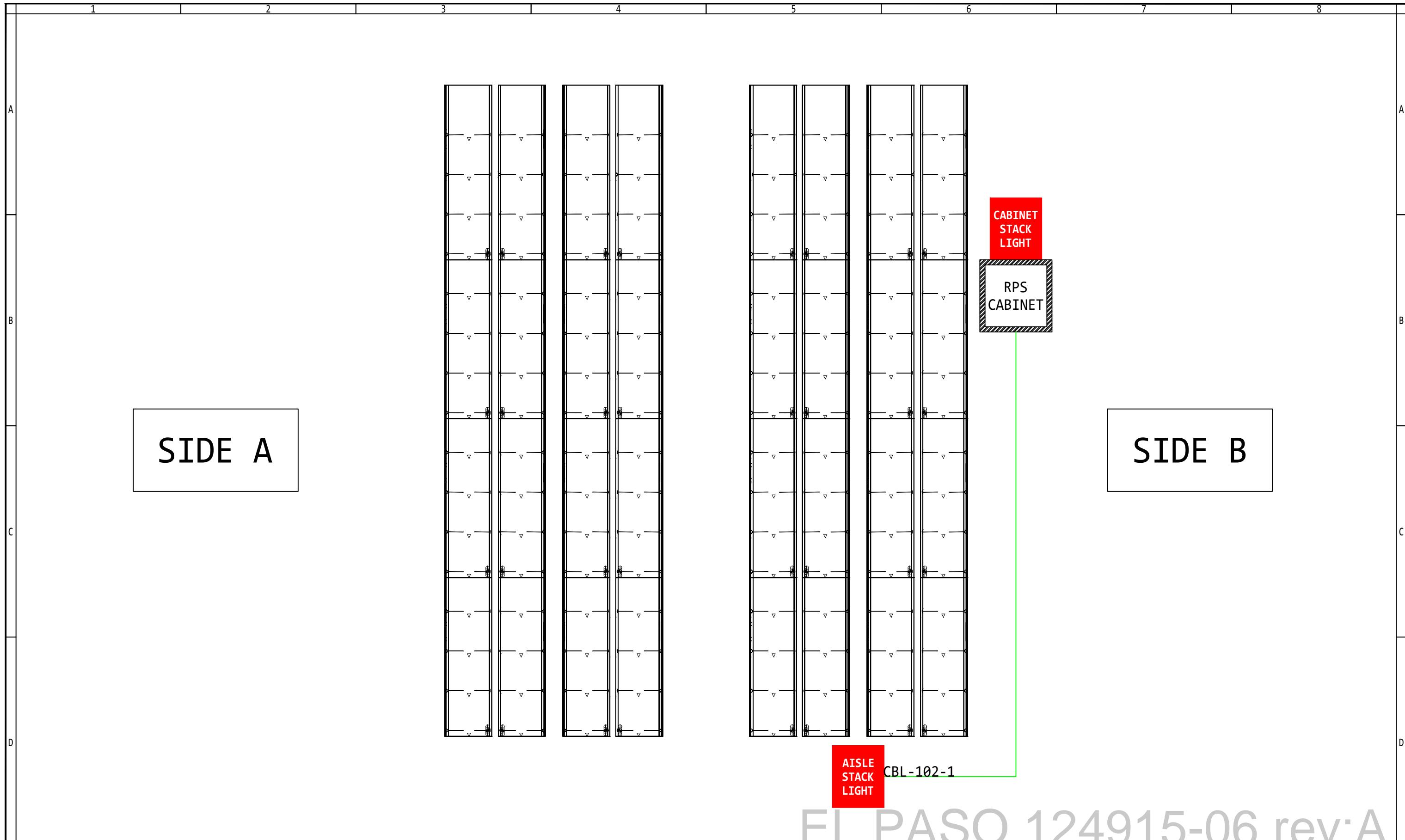
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

1 2 3 4 5 6 7 8



REV	DATE	ENGR.	DESCRIPTION



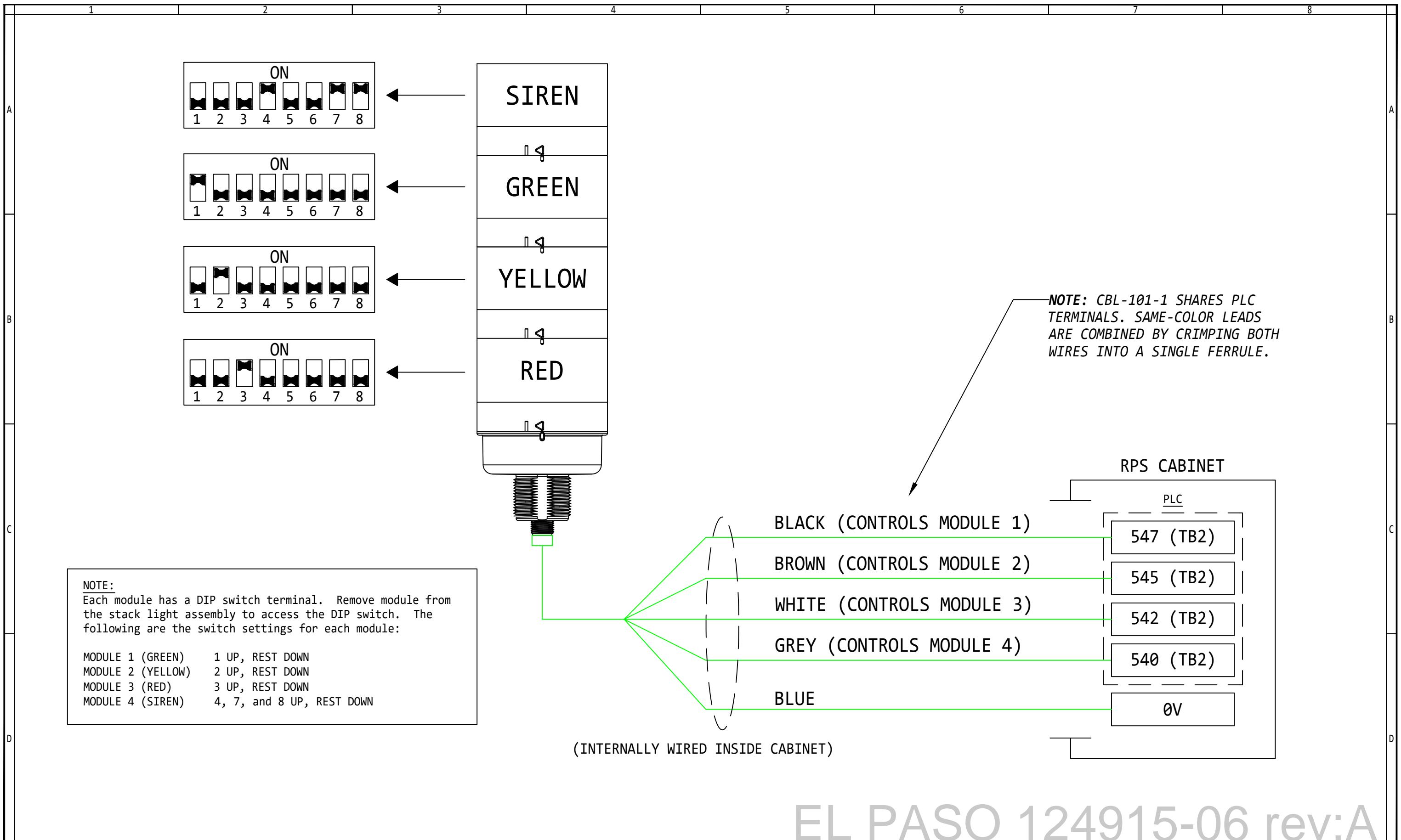
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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

STACK LIGHTS MODULE  
INTERCONNECT DRAWING PACKAGE  
STACK LIGHTS - OVERVIEW

REV	SECT. OVERVIEW	JOB#
A	PREV. SHEET 100 NEXT 101	BG 125410-01
		DWG RPS-100

EL PASO 124915-06 rev:A



REV	DATE	ENGR.	DESCRIPTION

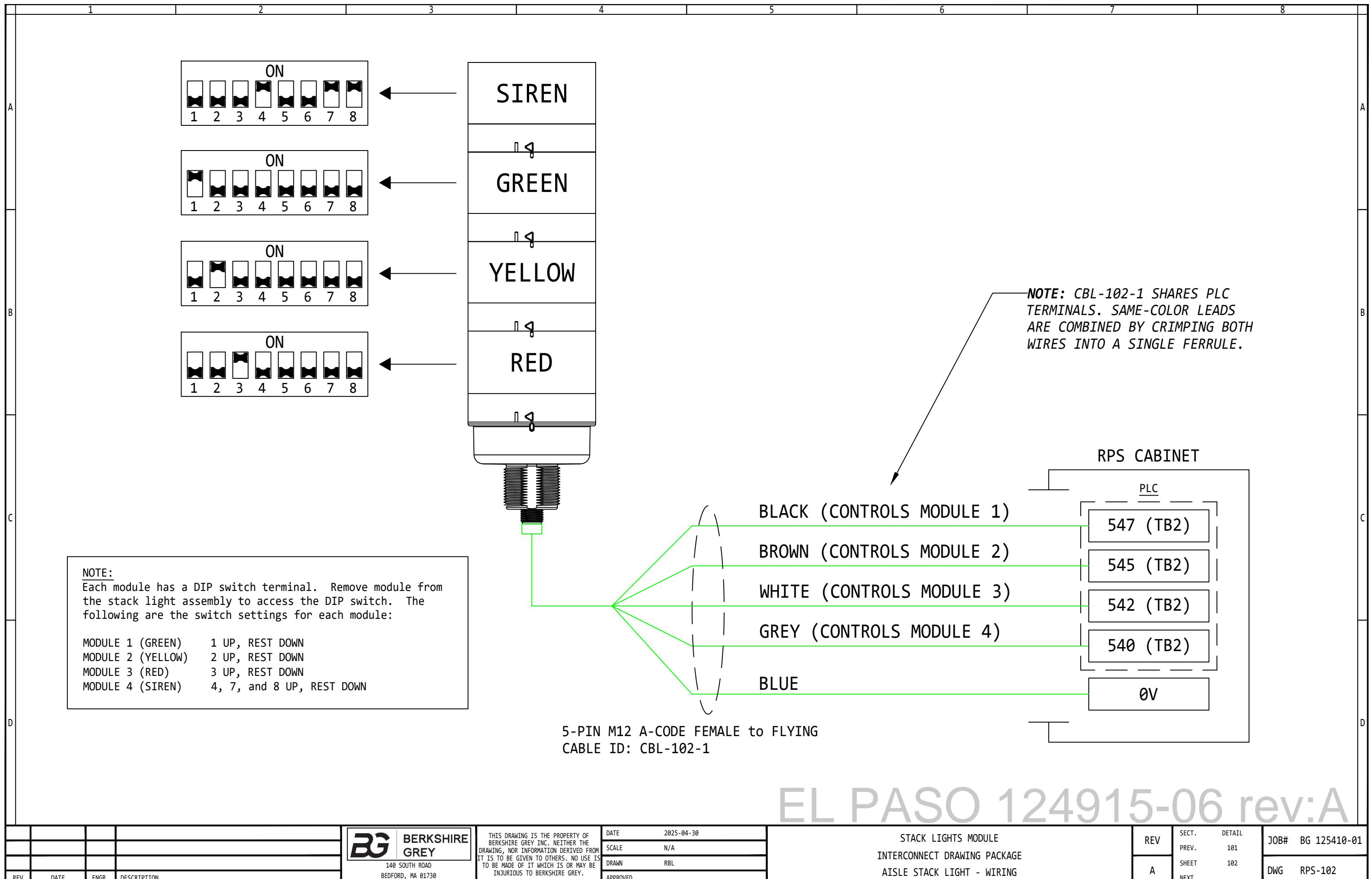
**BERKSHIRE GREY**  
140 SOUTH ROAD  
BEDFORD, MA 01730

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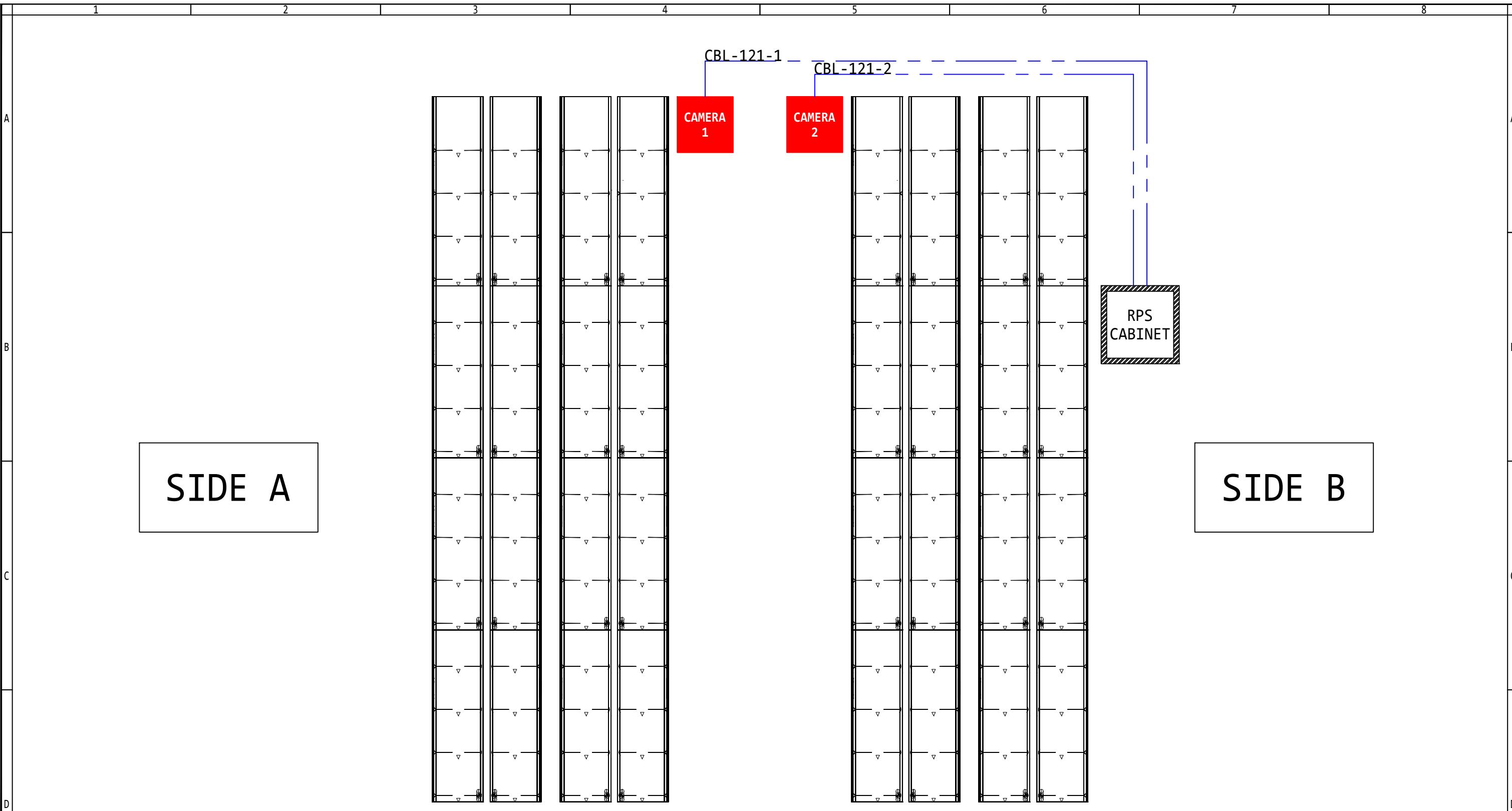
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

STACK LIGHTS MODULE  
INTERCONNECT DRAWING PACKAGE  
CABINET STACK LIGHT - WIRING

REV	SECT. PREV.	DETAIL	JOB#
A	100		BG 125410-01
	101		RPS-101
	102		

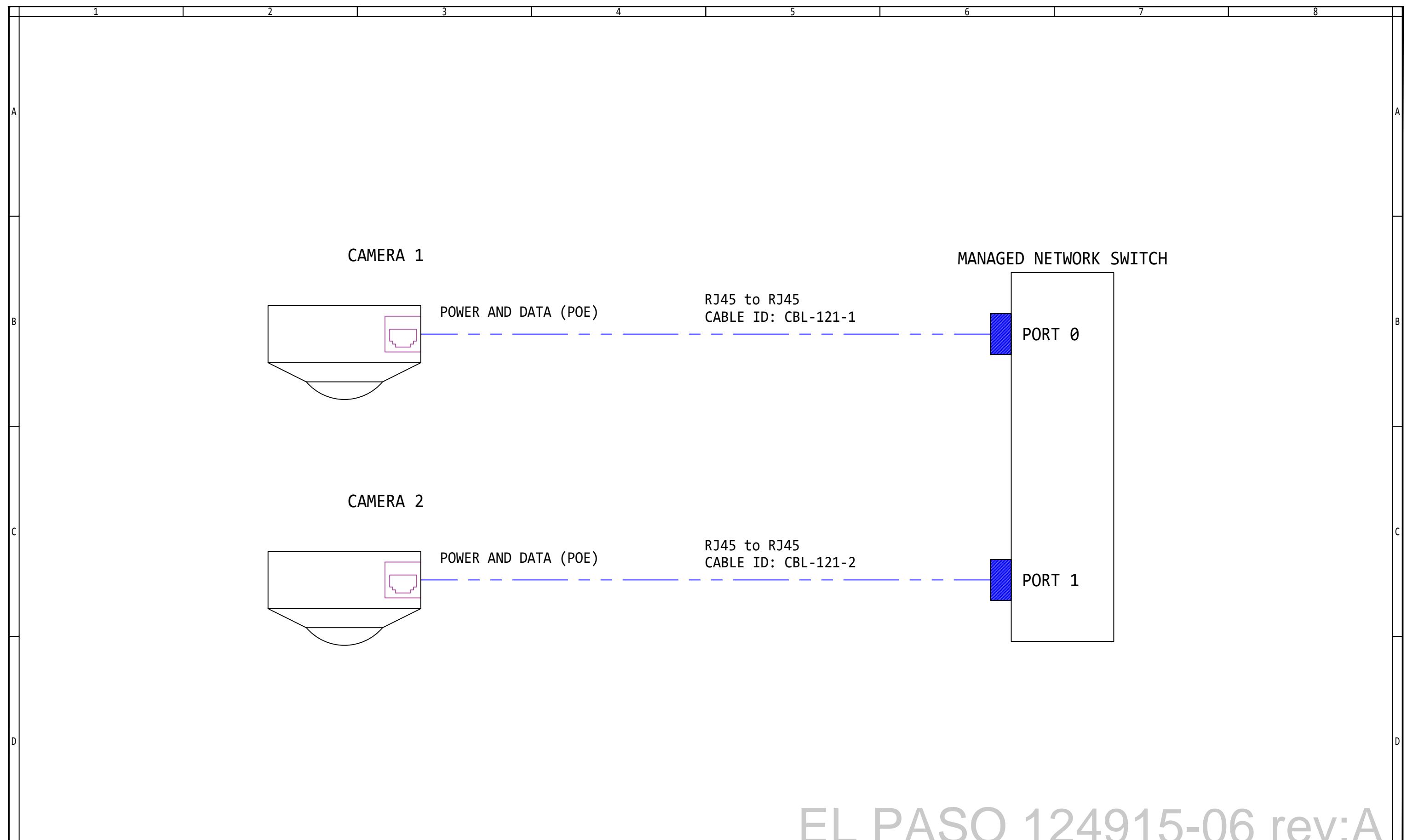


1 2 3 4 5 6 7 8



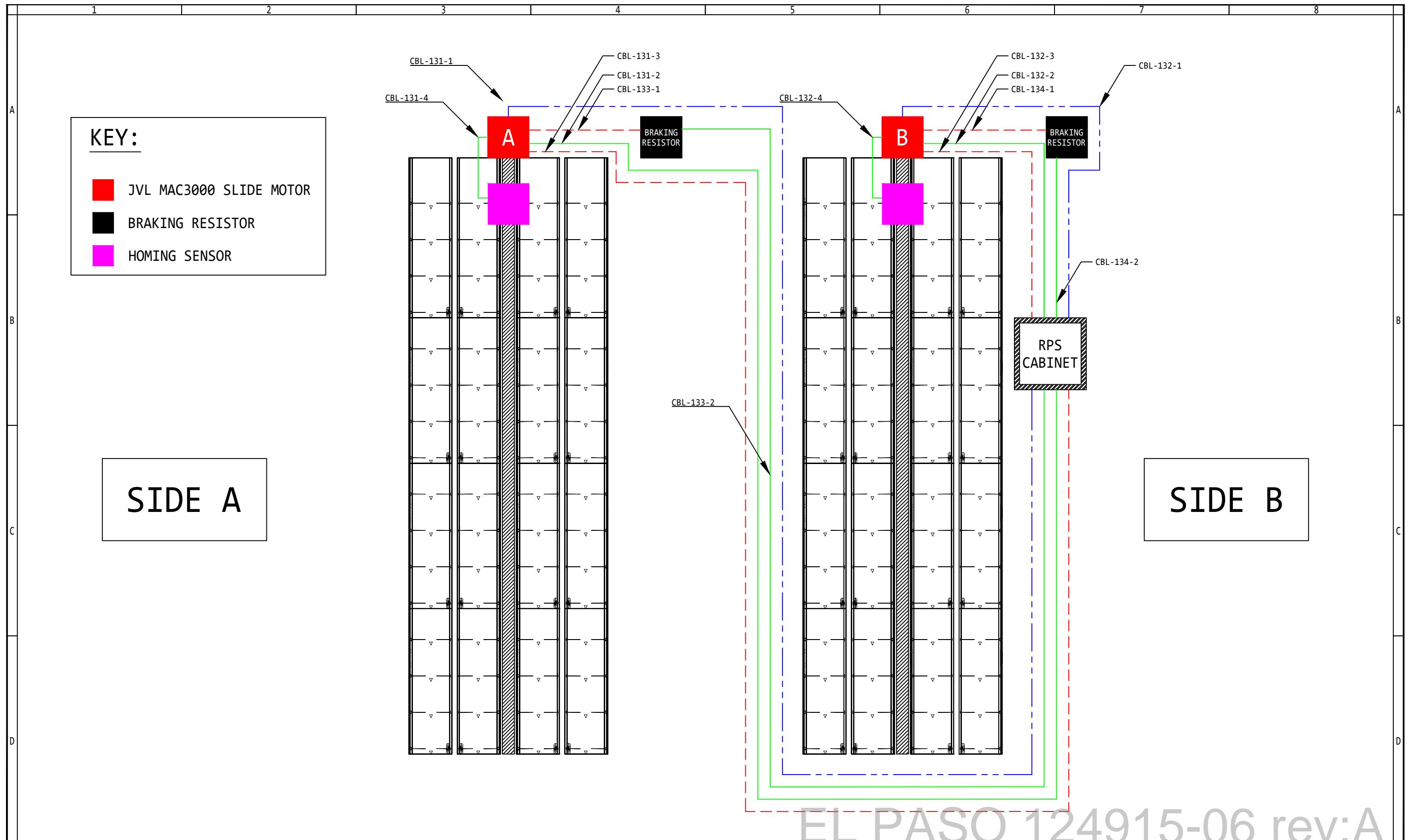
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REV	DATE	ENGR.	DESCRIPTION				PREV.	SHEET	120	BG 125412-01
---				BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730			A	NEXT	121	DWG RPS-120



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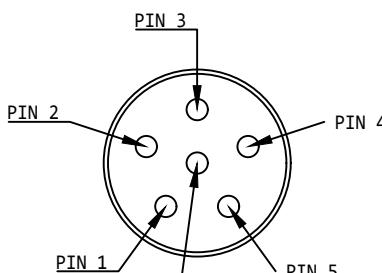


REV	DATE	ENGR.	DESCRIPTION	BERKSHIRE GREY	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-04-30 SCALE N/A DRAWN RBL APPROVED	SLIDE MOTOR MODULE INTERCONNECT DRAWING PACKAGE SLIDE MOTORS - OVERVIEW	REV A	SECT. OVERVIEW PREV. SHEET 130 NEXT 131	JOB# BG 125413-01 DWG RPS-130
-----	------	-------	-------------	-------------------	--	--	---	----------	---	--

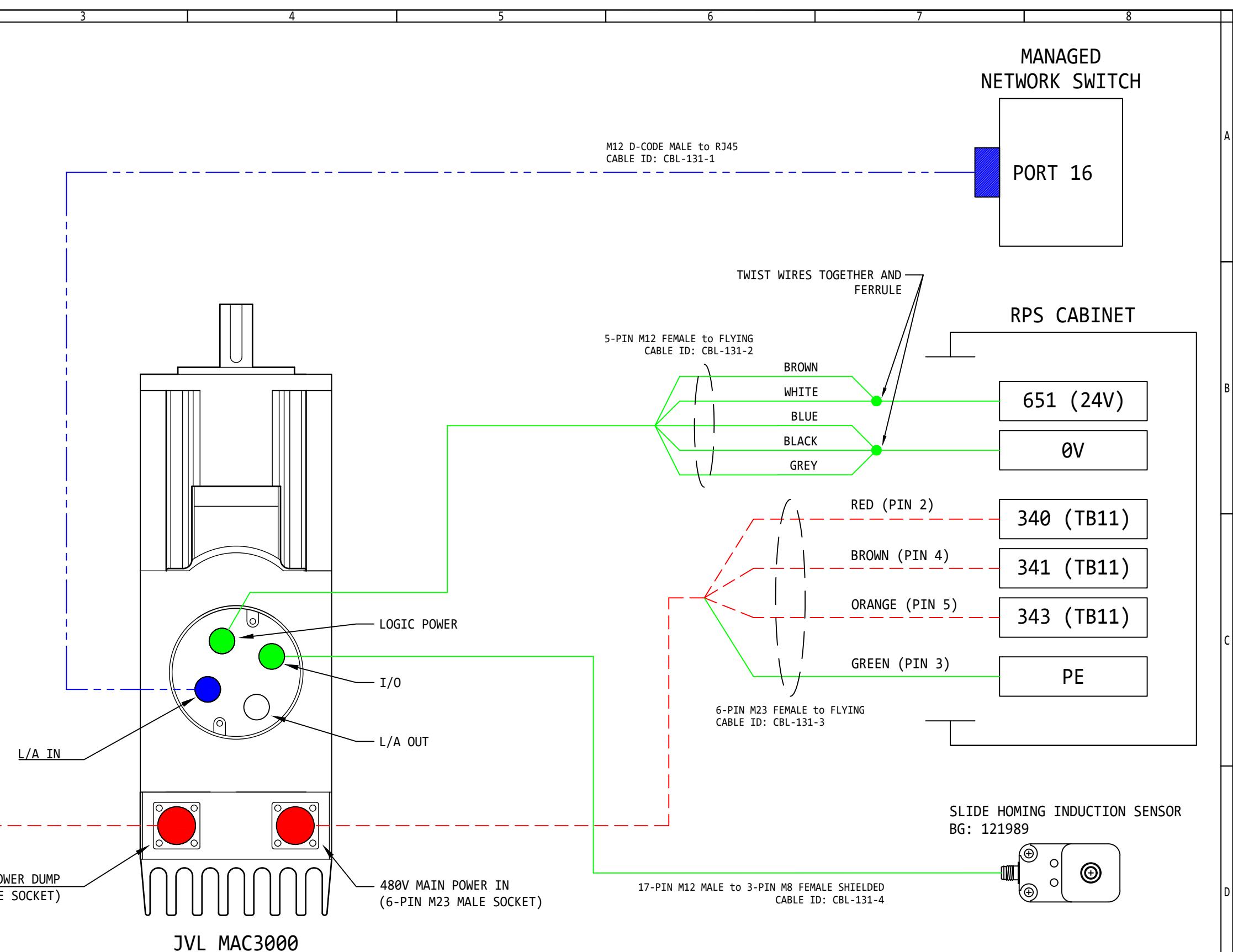
# SIDE A

## IMPORTANT WIRING NOTE

### 6-PIN M23 MALE SOCKET PINOUT



PIN 1: NOT CONNECTED  
PIN 2: L1 (U-PHASE 400-480VAC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: L2 (V-PHASE 400-480VAC)  
PIN 5: L3 (W-PHASE 400-480VAC)  
PIN 6: NOT CONNECTED



REV	DATE	ENGR.	DESCRIPTION



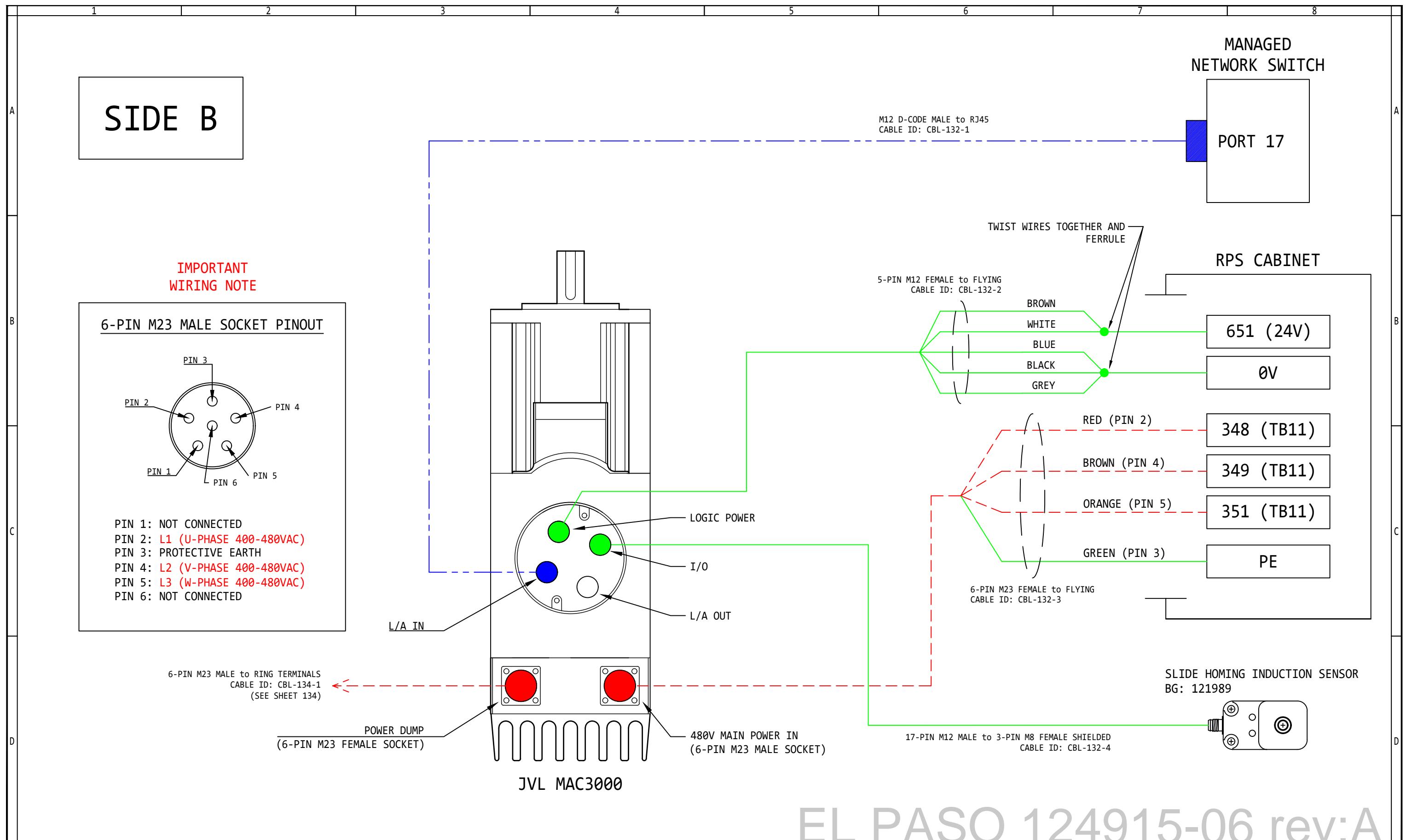
BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

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

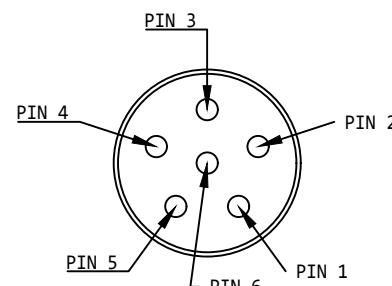
REV	SECT.	DETAIL	JOB#
PREV.	130		BG 125413-01
SHEET	131		RPS-131
NEXT	132		



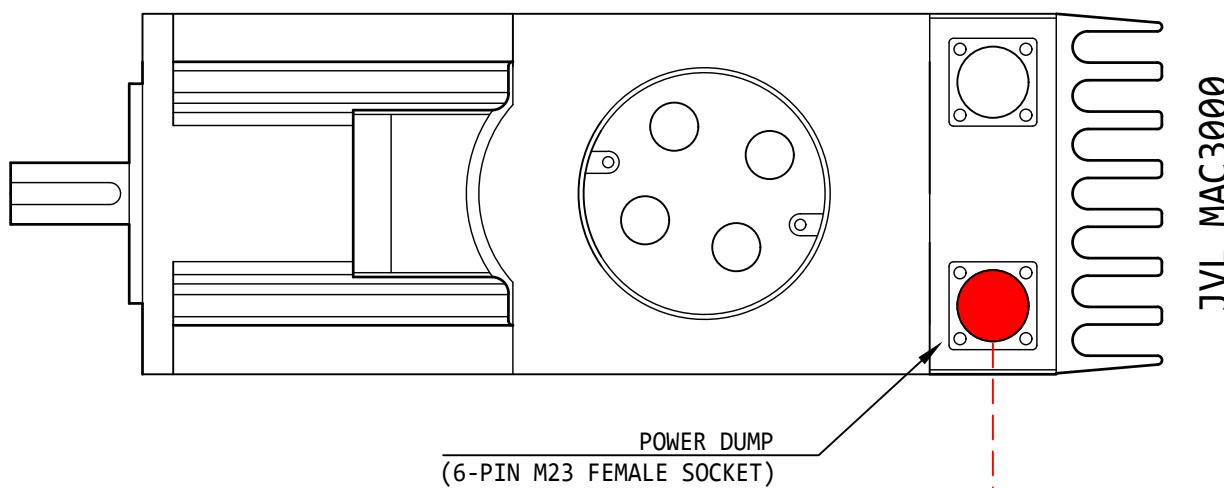
SIDE A

**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)

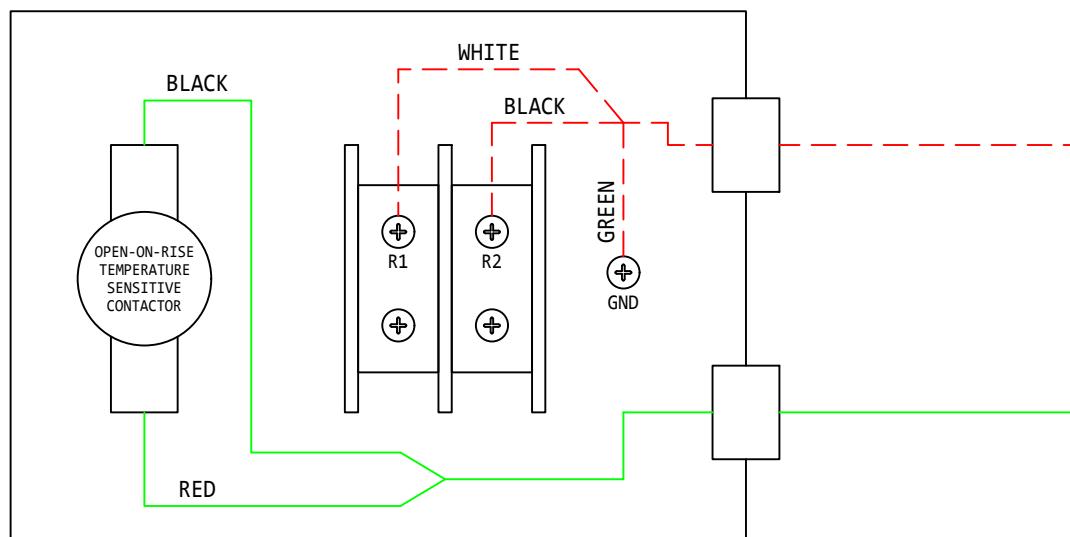


JVL MAC3000

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 120389



BRAKING RESISTOR  
MFR: POWEROHM PF40R1K60

2-CONDUCTOR FLYING to FLYING  
CABLE ID: CBL-133-2

RPS CABINET

651 (24V)

PLC

444 (TB2)

EL PASO 124915-06 rev:A

				SLIDE MOTOR MODULE INTERCONNECT DRAWING PACKAGE BRAKING RESISTOR WIRING - SIDE A	REV A	SECT. PREV. 132	DETAIL 133	JOB# BG 125413-01	
			SCALE N/A			APPROVED	133	134	DWG RPS-133
			DRAWN RBL						
			140 SOUTH ROAD BEDFORD, MA 01730						

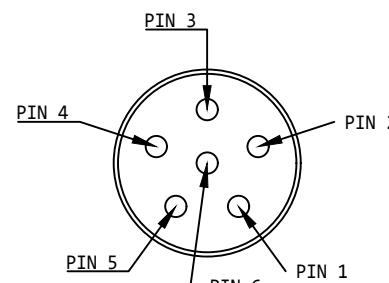
REV	DATE	ENGR.	DESCRIPTION



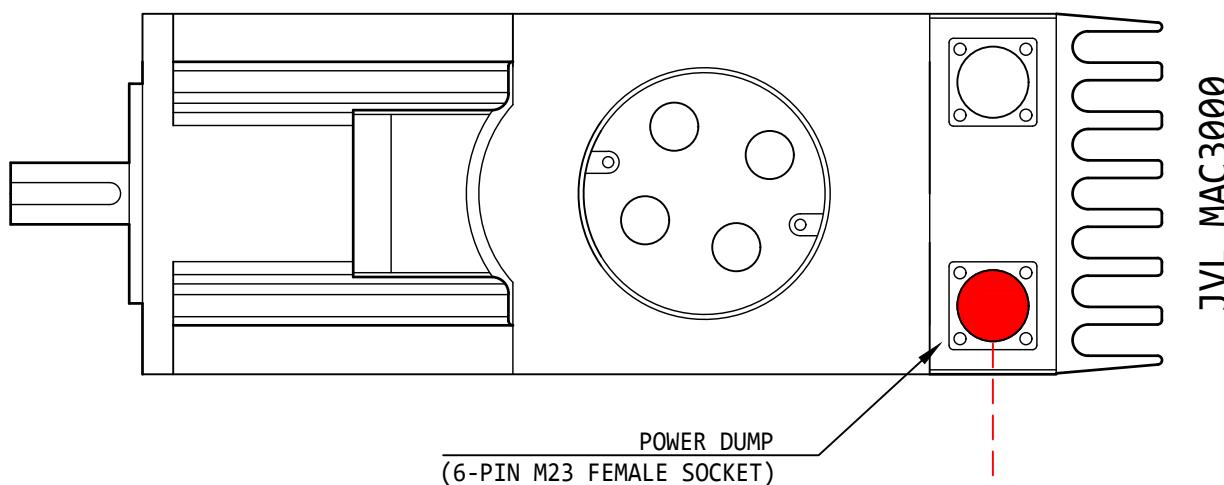
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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

1 2 3 4 5 6 7 8

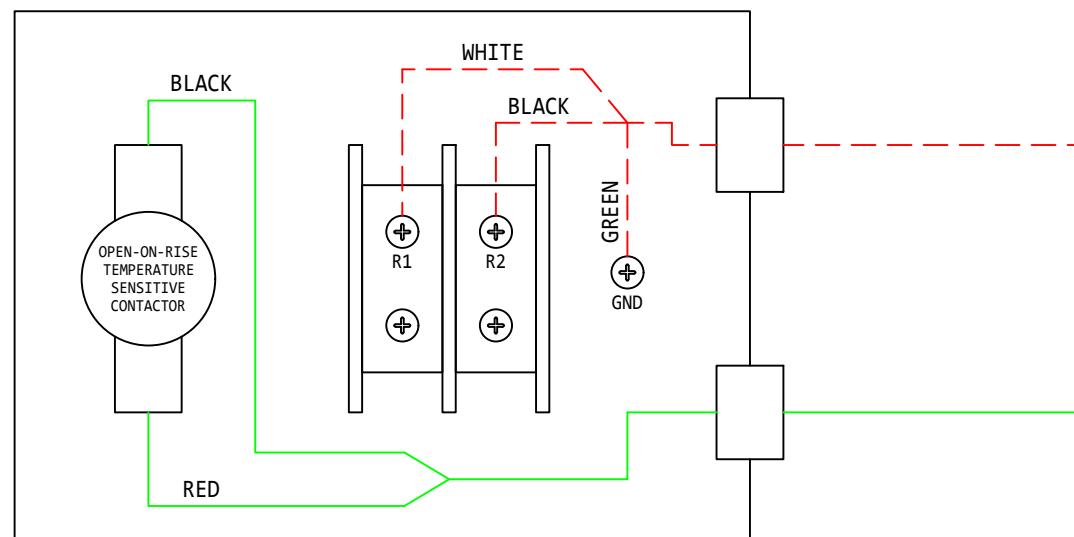
**SIDE B****IMPORTANT  
WIRING NOTE****6-PIN M23 FEMALE SOCKET PINOUT**

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 120389



**BRAKING RESISTOR**  
MFR: POWEROHM PF40R1K60

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

**RPS CABINET****651 (24V)****PLC****446 (TB2)**

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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

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

REV	SECT. PREV.	DETAIL	JOB#
A	133	133	BG 125413-01
	SHEET	134	DWG RPS-134
	NEXT		

1 2 3 4 5 6 7 8

A

B

C

D

A

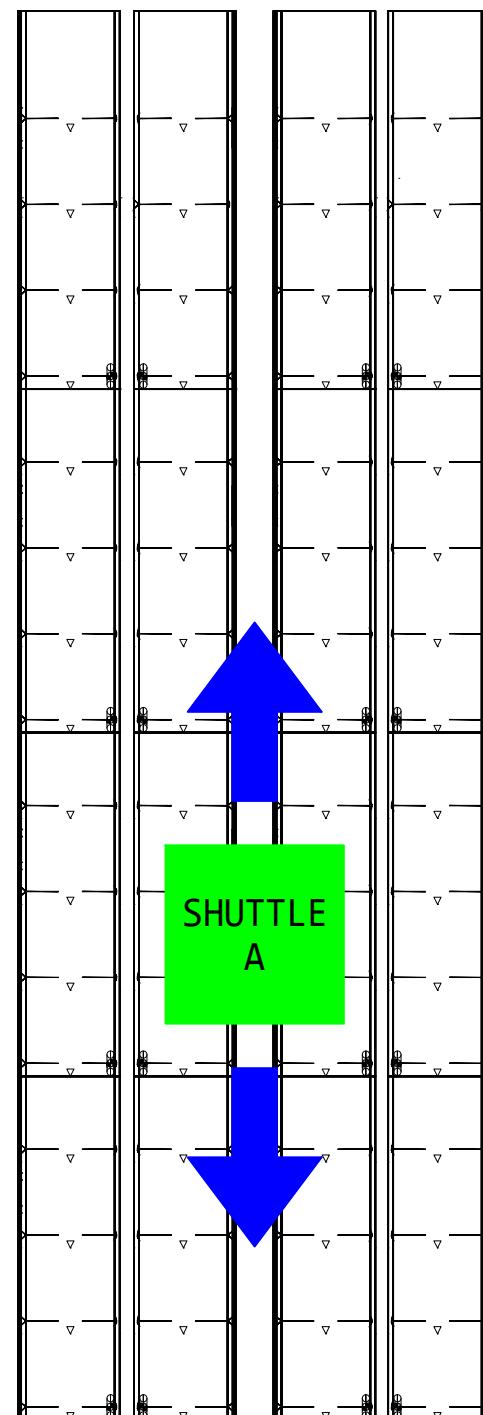
B

C

D

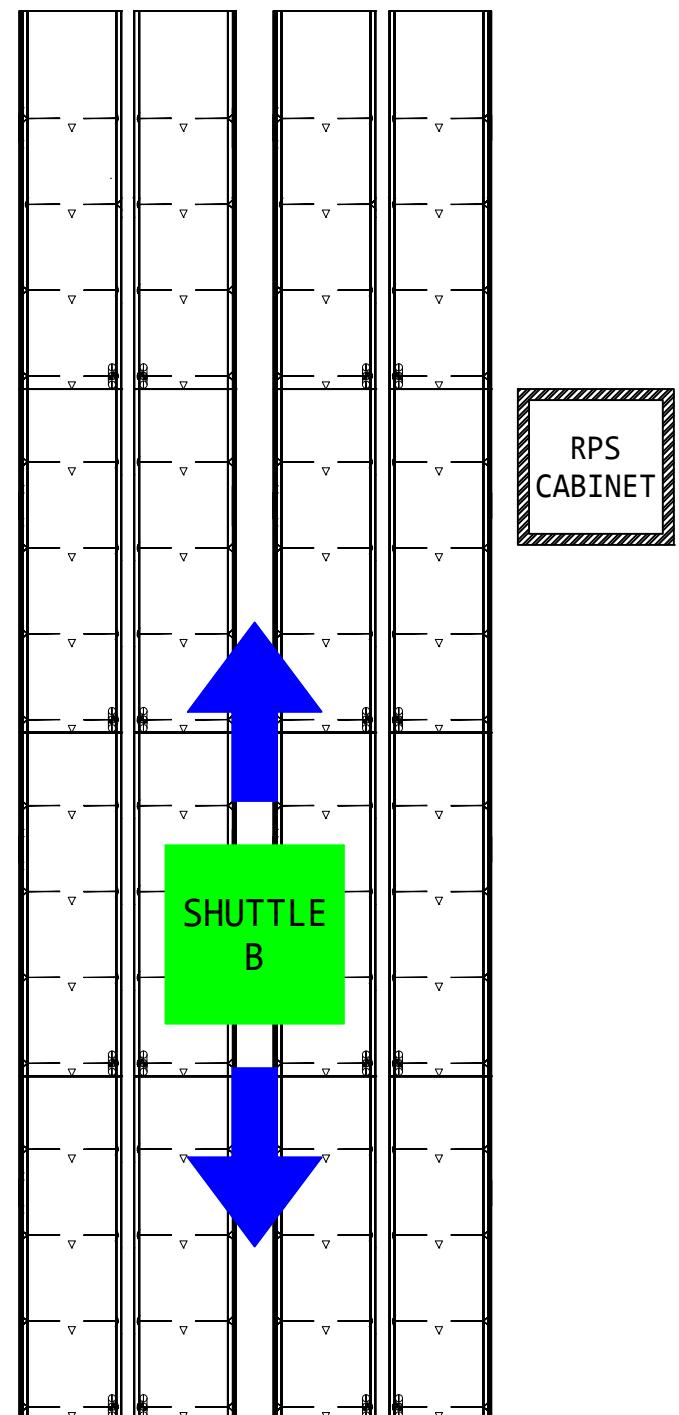
SIDE A

SHUTTLE A



SIDE B

SHUTTLE B



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REV	DATE	ENGR.	DESCRIPTION



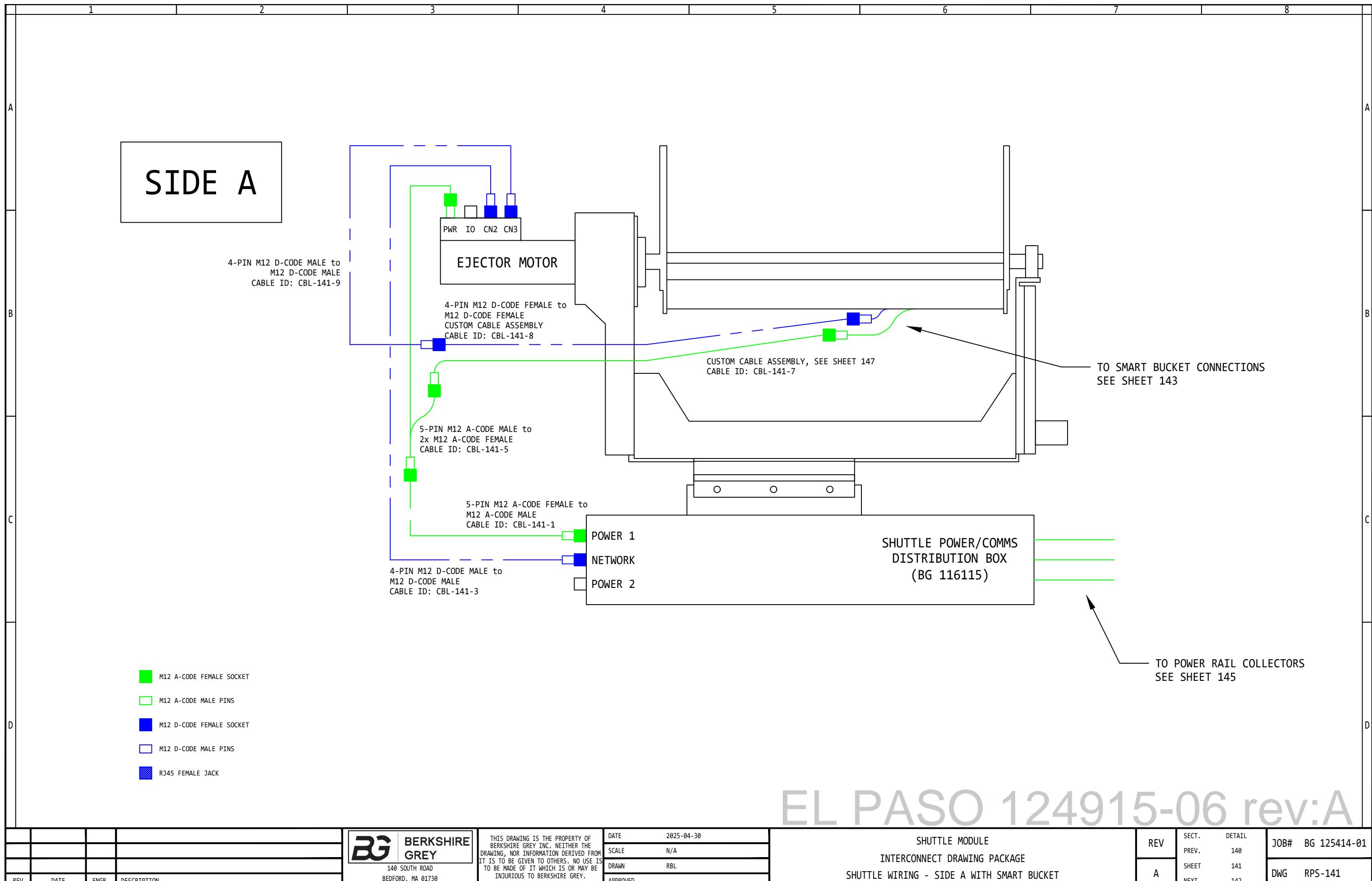
BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

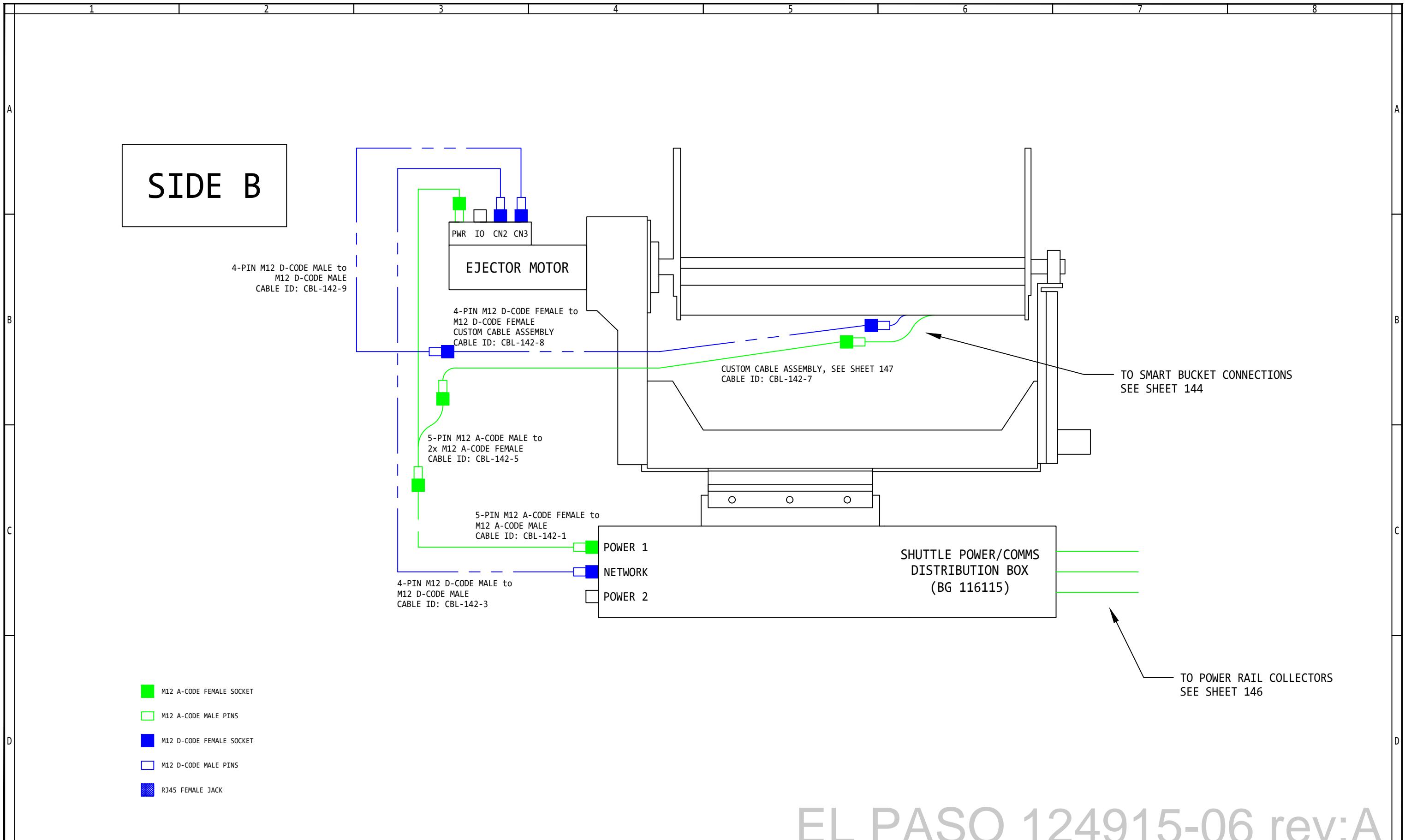
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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

SHUTTLE MODULE  
INTERCONNECT DRAWING PACKAGE  
SHUTTLES - OVERVIEW

REV	SECT.	OVERVIEW	JOB#
A		140 141	BG 125414-01 RPS-140



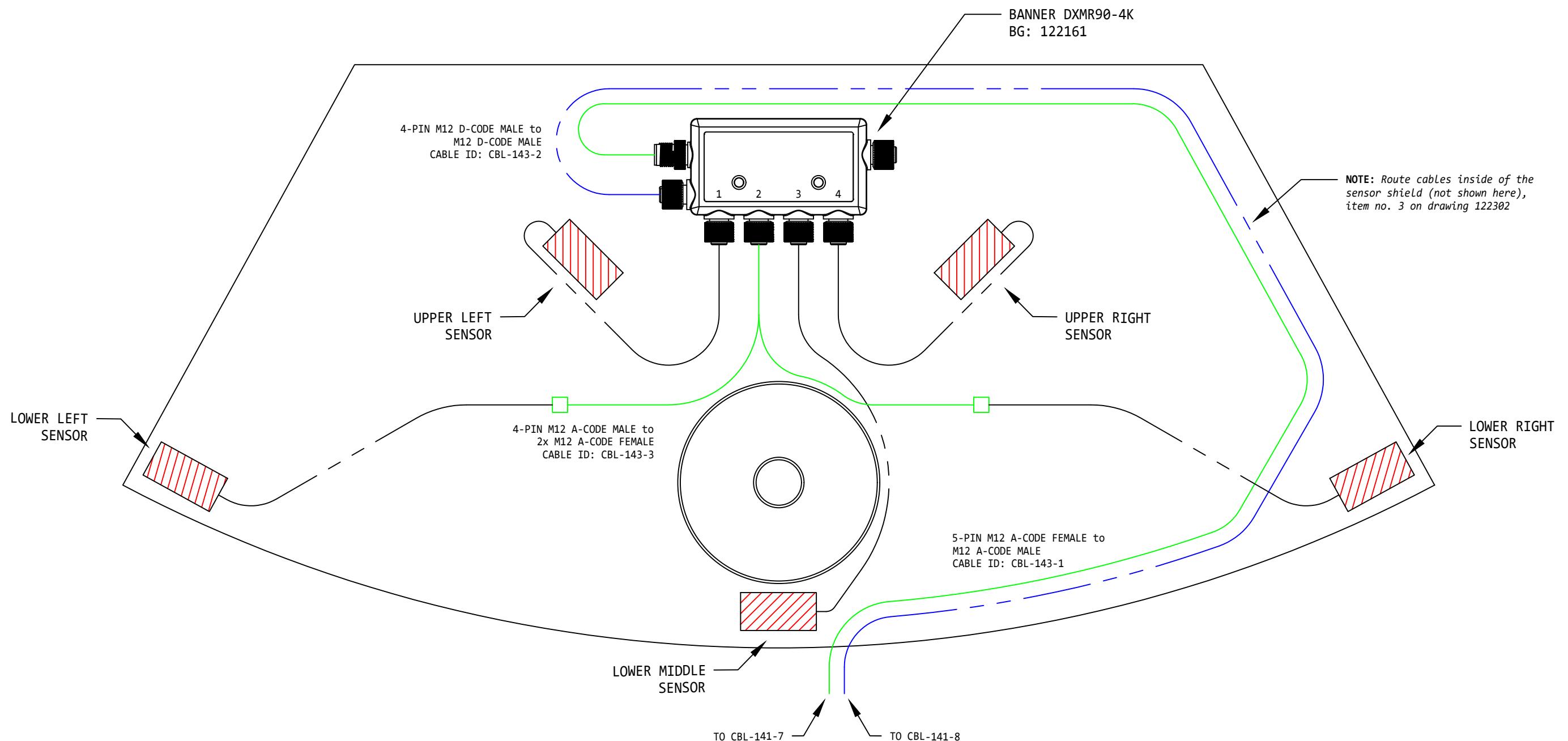


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				<b>BG</b> <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE	2025-04-30	SHUTTLE MODULE INTERCONNECT DRAWING PACKAGE SHUTTLE WIRING - SIDE B WITH SMART BUCKET	REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A			PREV.	141	BG 125414-01
						DRAWN	RBL			SHEET	142	
						APPROVED				NEXT	143	DWG RPS-142

SIDE A

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

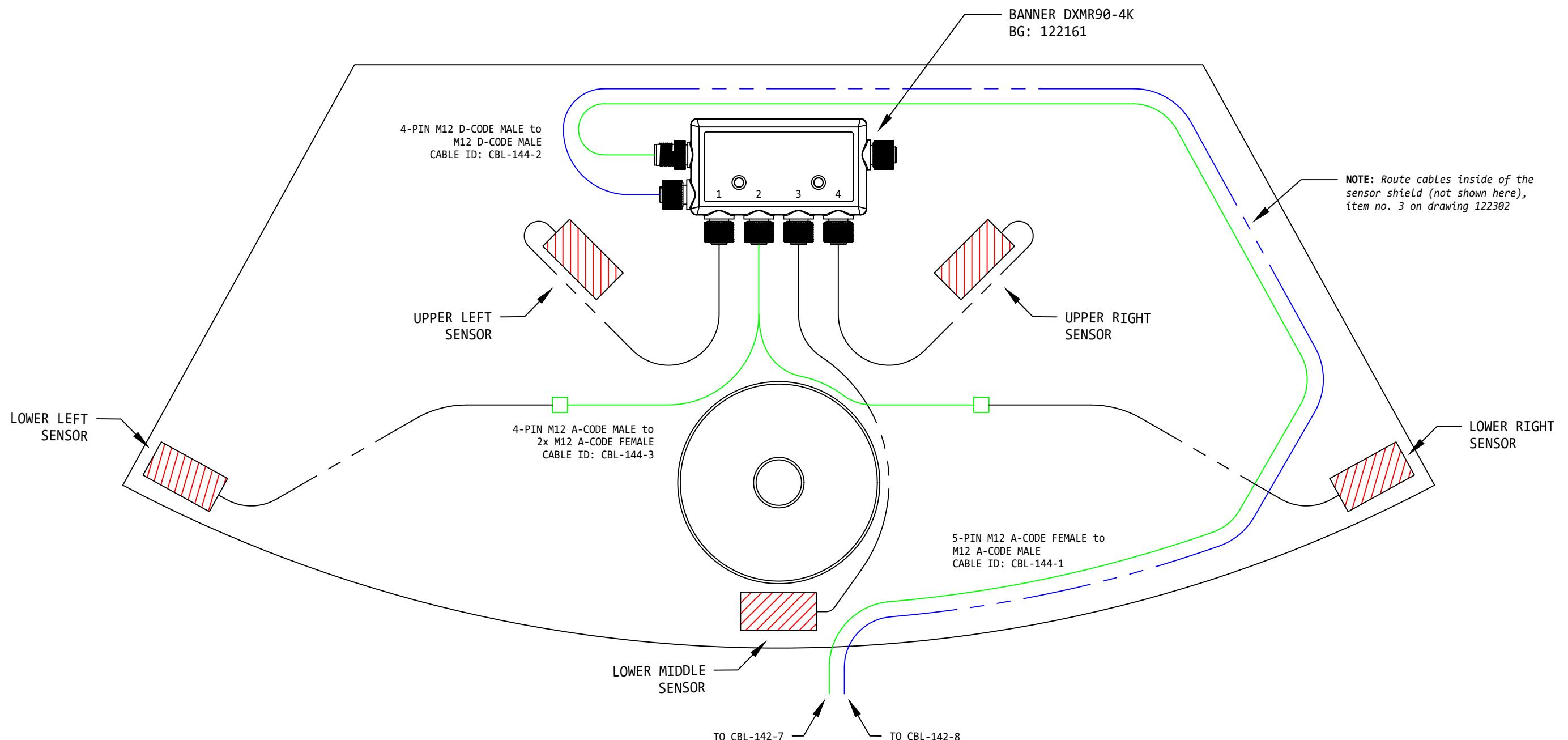


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REV	DATE	ENGR.	DESCRIPTION						
				BG BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730			A		DWG RPS-143

SIDE B

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

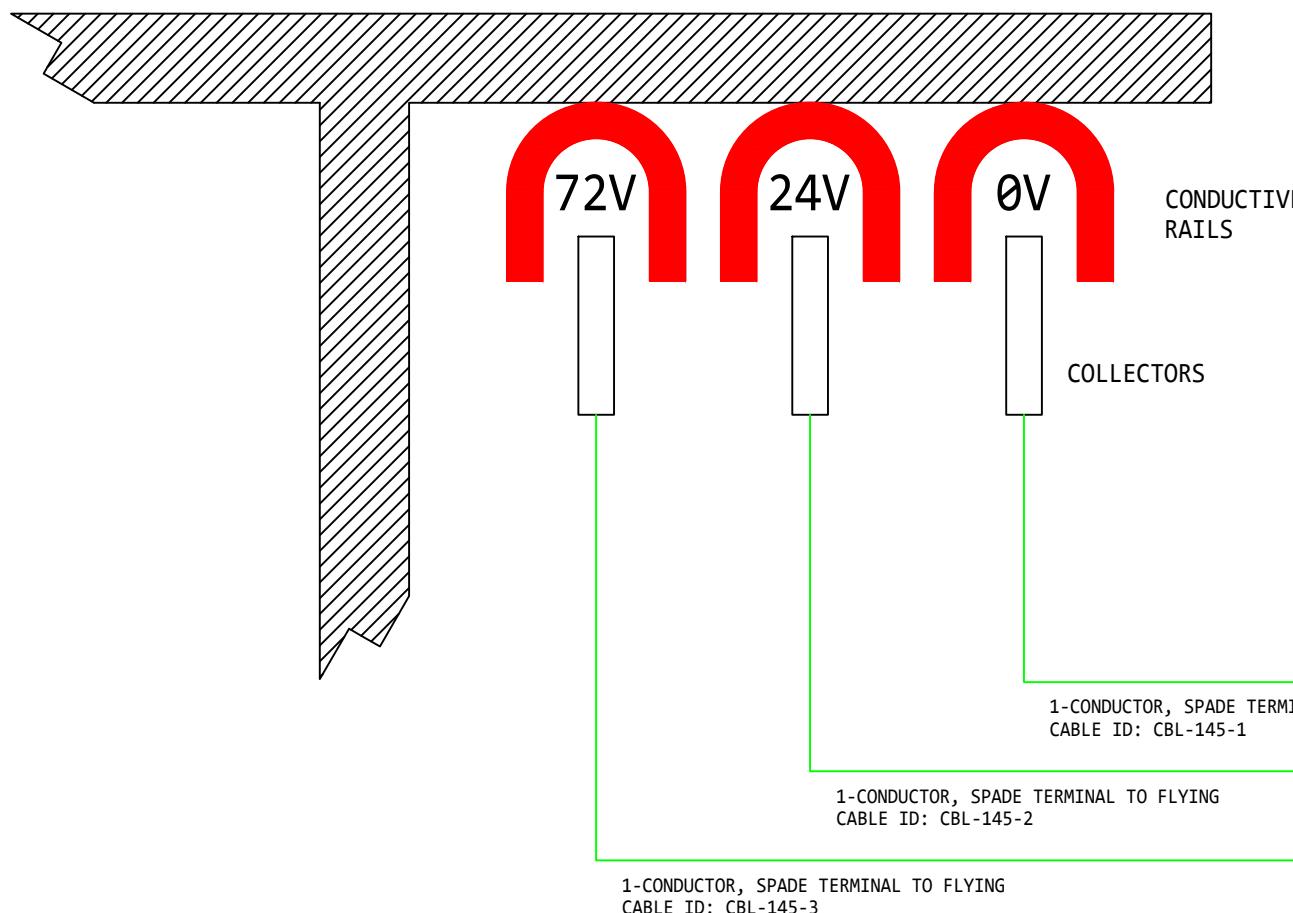


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REV	DATE	ENGR.	DESCRIPTION						INTERCONNECT DRAWING PACKAGE				
				BUCKET SENSOR WIRING - SIDE B						A			DWG RPS-144

## SIDE A

BEAM CROSS SECTION



**NOTE:** Refer to drawing BG 116115 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 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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INJURIOUS TO BERKSHIRE GREY.

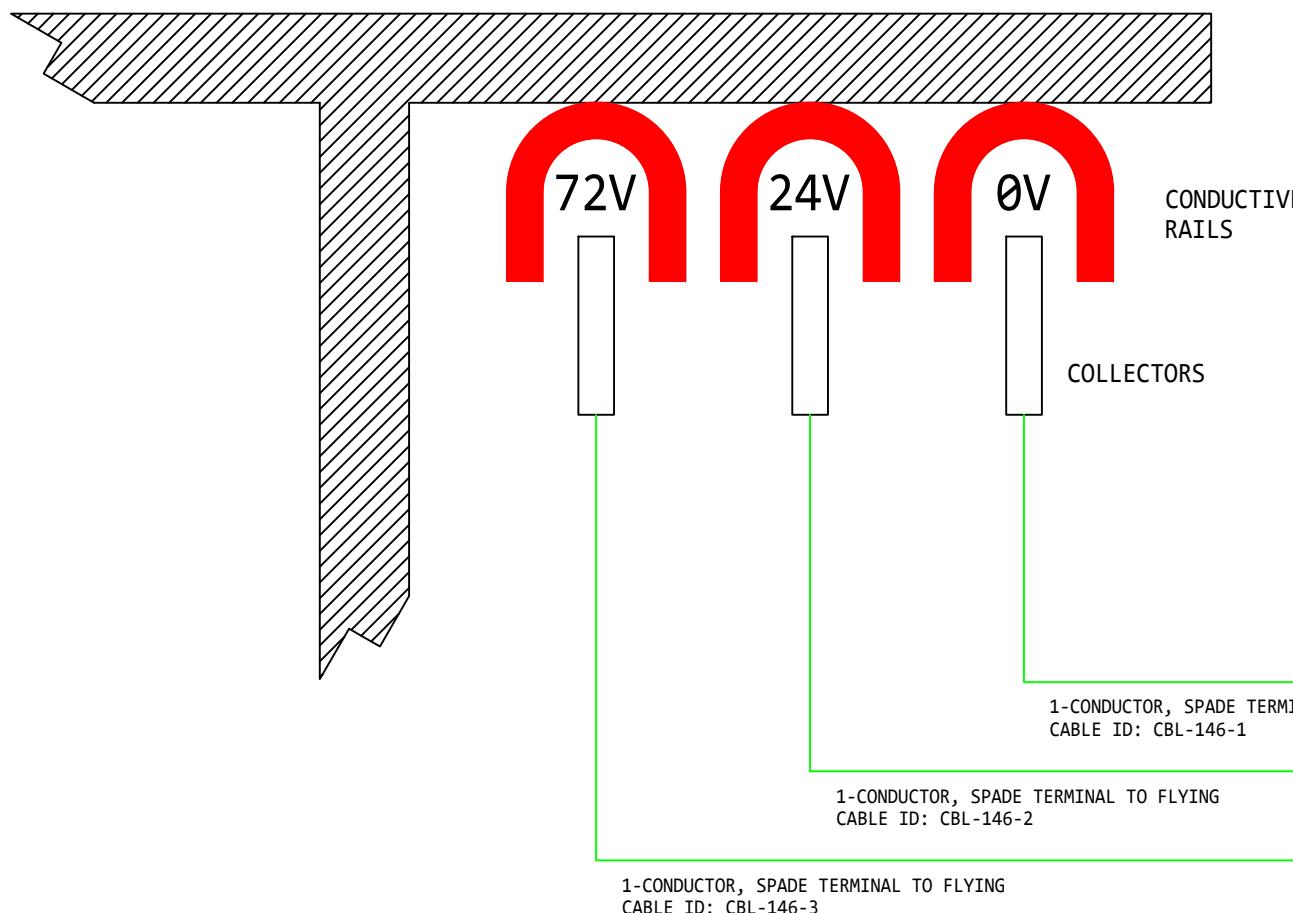
DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

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

REV	SECT.	DETAIL	JOB#
	PREV.	144	BG 125414-01
A	SHEET	145	
	NEXT	146	DWG RPS-145

SIDE B

BEAM CROSS SECTION



**NOTE:** Refer to drawing BG 116115 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 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

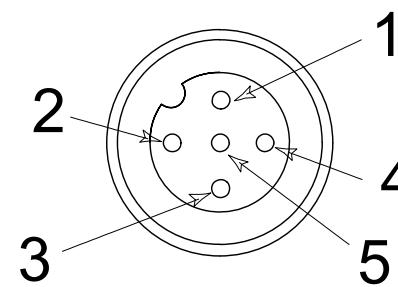
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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

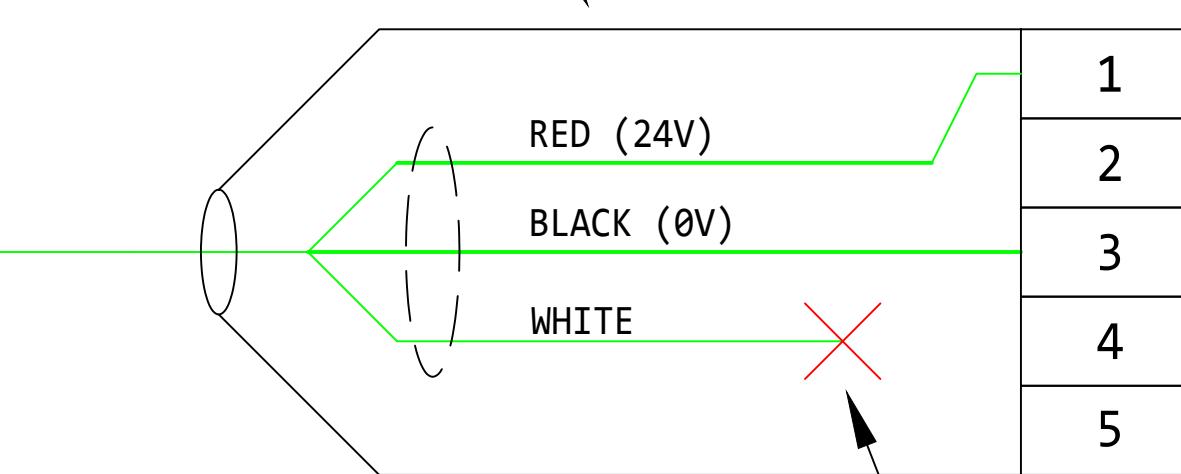
SHUTTLE MODULE  
INTERCONNECT DRAWING PACKAGE  
SHUTTLE POWER BOX WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
PREV.		145	BG 125414-01
SHEET		146	
NEXT		147	DWG RPS-146

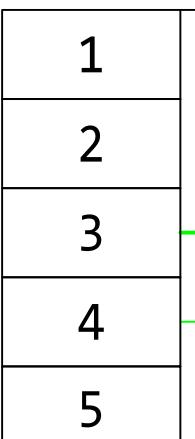
BOTH SIDES



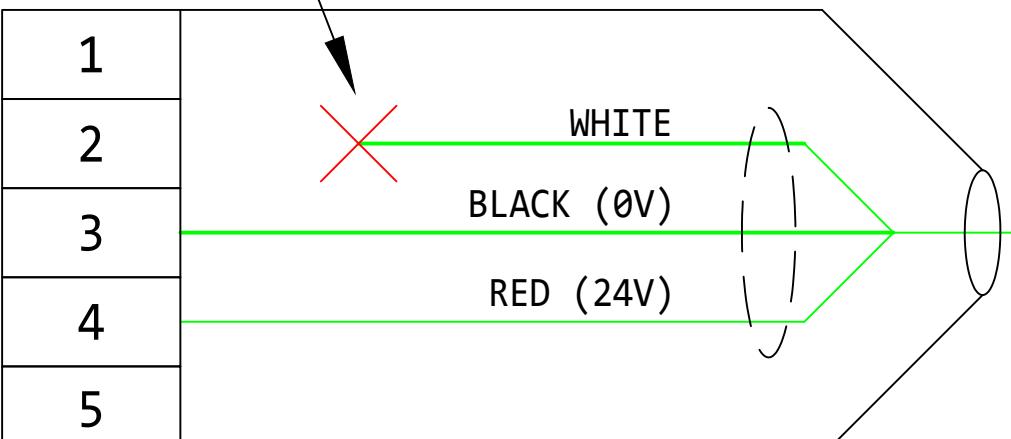
M12 5-PIN A-CODE FEMALE  
FIELD WIREABLE (BG 122363)



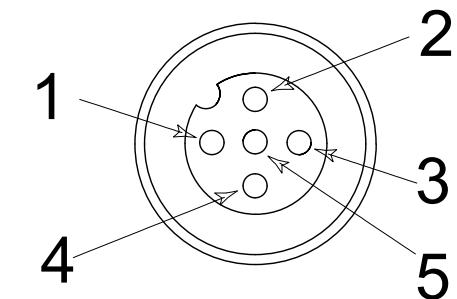
NOT USED; CUT  
AND INSULATE



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



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



EL PASO 124915-06 rev:A

SHUTTLE MODULE  
INTERCONNECT DRAWING PACKAGE  
BUCKET SENSOR WIRING - REFERENCE

REV	SECT.	DETAIL	JOB#
A	PREV.	146	BG 125414-01
	SHEET	147	
	NEXT		DWG RPS-147

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

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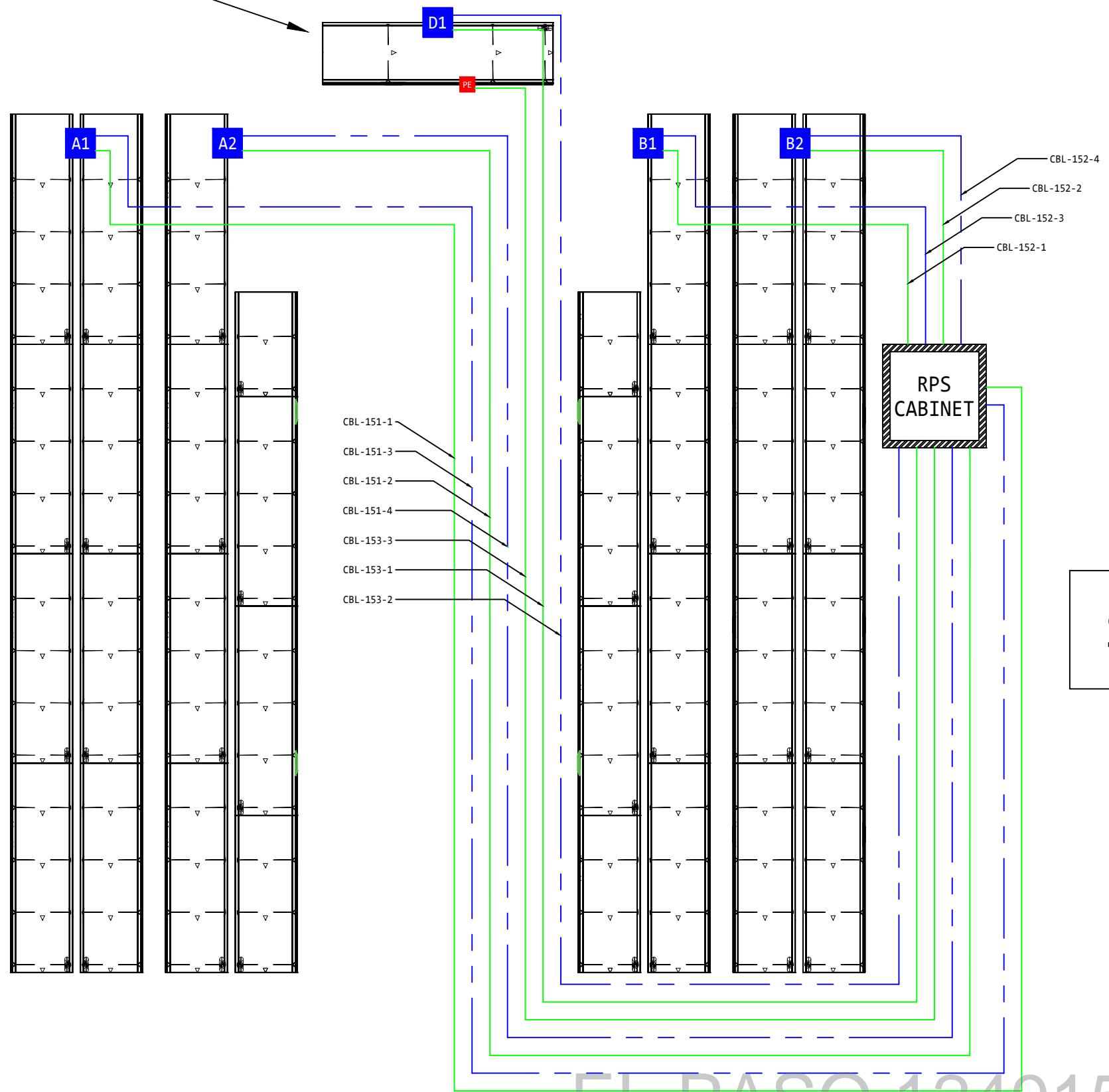
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

1 2 3 4 5 6 7 8

DONOR TOTE CONVEYOR

**KEY:**

- █ BARCODE SCANNER
- █ PHOTO-EYE

**SIDE A****SIDE B**

EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



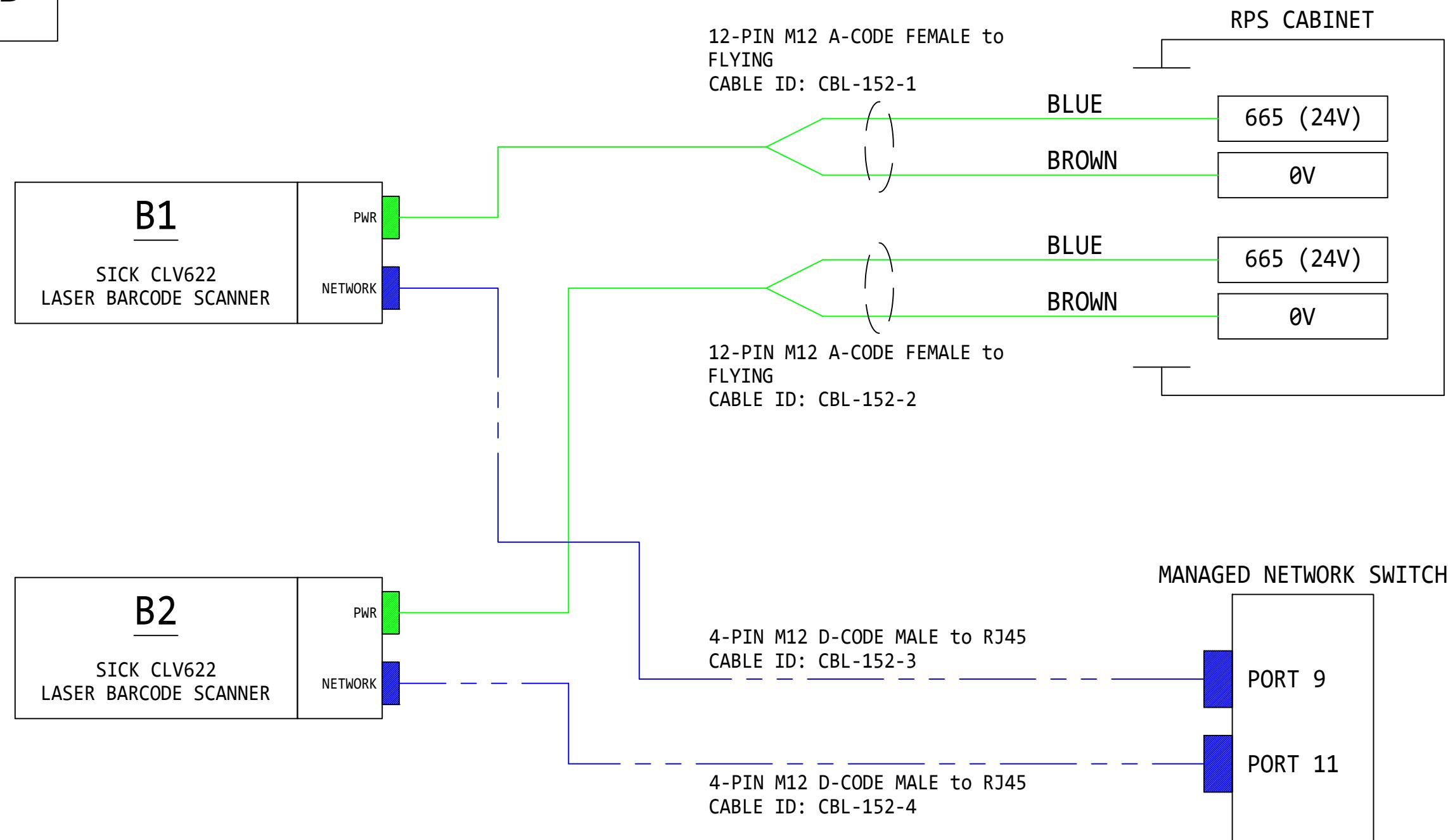
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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

BARCODE SCANNER MODULE  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNERS - OVERVIEW

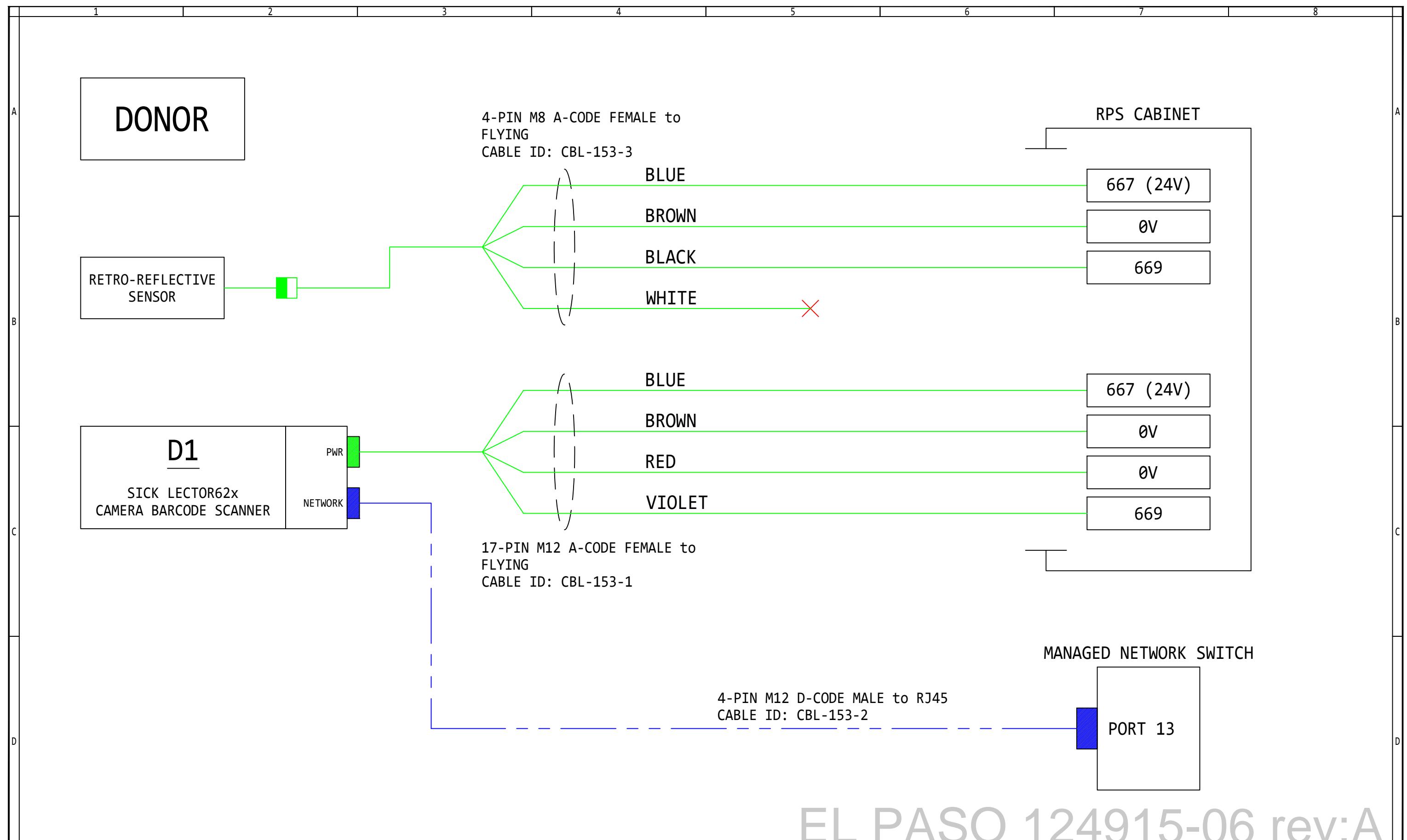
REV	SECT.	OVERVIEW	JOB#
A		150 151	BG 125415-01 RPS-150

SIDE B



EL PASO 124915-06 rev:A

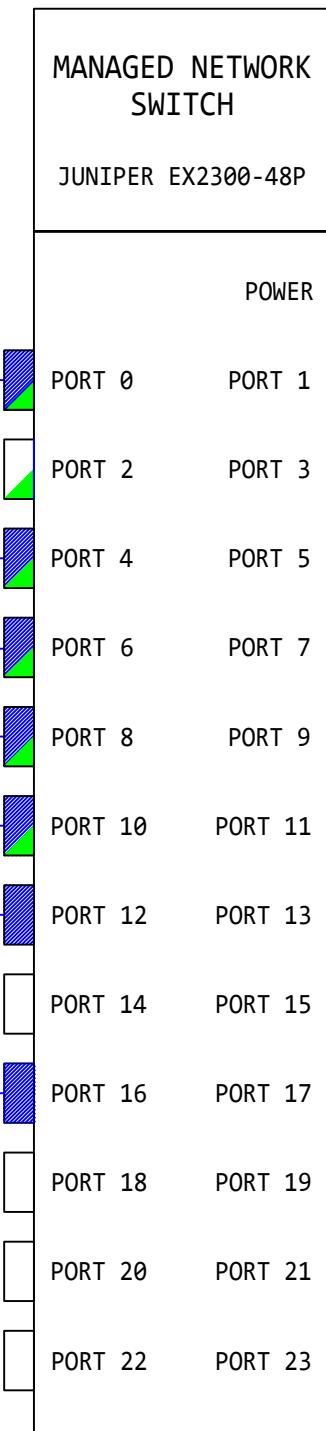
				<b>BG</b> BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-04-30	BARCODE SCANNER MODULE INTERCONNECT DRAWING PACKAGE BARCODE SCANNER WIRING - SIDE B	REV A	SECT. PREV. 151	DETAIL SHEET 152	JOB# RPS-152
REV	DATE	ENGR.	DESCRIPTION			SCALE N/A			APPROVED	NEXT 153	DWG RPS-152



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 2025-04-30	SCALE N/A	DRAWN RBL	APPROVED	BARCODE SCANNER MODULE INTERCONNECT DRAWING PACKAGE BARCODE SCANNER WIRING - DONOR	REV	SECT. PREV. SHEET	DETAIL 152 153	JOB# BG 125415-01
											A			DWG RPS-153

NETWORK SWITCH CONFIGURATION		
CATEGORY	POR	SUBNET MASK (CIDR)
camera	(Ports 0 - 7)	172.19.X.1/17
device	(Ports 8 -41)	172.20.X.1/24
alt-dev	(Ports 42-43)	172.22.X.1/24
HMI	(Ports 44-45)	172.19.[130+X].1/17
debug	(Ports 46-47)	172.18.[130+X].0/17

\*X = Cell Number



C13 FEMALE to L5-15P MALE  
CABLE ID: CBL-160-1

TO 120VAC SERVICE OUTLET

TO AXIS CAMERA 1  
RJ45 to RJ45  
CABLE ID: CBL-121-1

POWER  
PORT 0  
PORT 1  
PORT 2  
PORT 3  
PORT 4  
PORT 5  
PORT 6  
PORT 7  
PORT 8  
PORT 9  
PORT 10  
PORT 11  
PORT 12  
PORT 13  
PORT 14  
PORT 15  
PORT 16  
PORT 17  
PORT 18  
PORT 19  
PORT 20  
PORT 21  
PORT 22  
PORT 23

RJ45 to RJ45  
CABLE ID: CBL-121-2

TO AXIS CAMERA 2

DESTINATION SCANNER A1  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-231-4

DESTINATION SCANNER A2  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-232-4

TO BARCODE SCANNER A1  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-151-3

TO BARCODE SCANNER A2  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-151-4

TO UNMANAGED NETWORK SWITCH  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-160-2

TO SLIDE MOTOR SIDE A  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-131-1

DESTINATION SCANNER B1  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-233-4

DESTINATION SCANNER B2  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-234-4

TO BARCODE SCANNER B1  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-152-3

TO BARCODE SCANNER B2  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-152-4

TO DONOR BARCODE SCANNER  
M12 D-CODE MALE to RJ45  
CABLE ID: CBL-153-2

M12 D-CODE MALE to RJ45  
CABLE ID: CBL-132-1

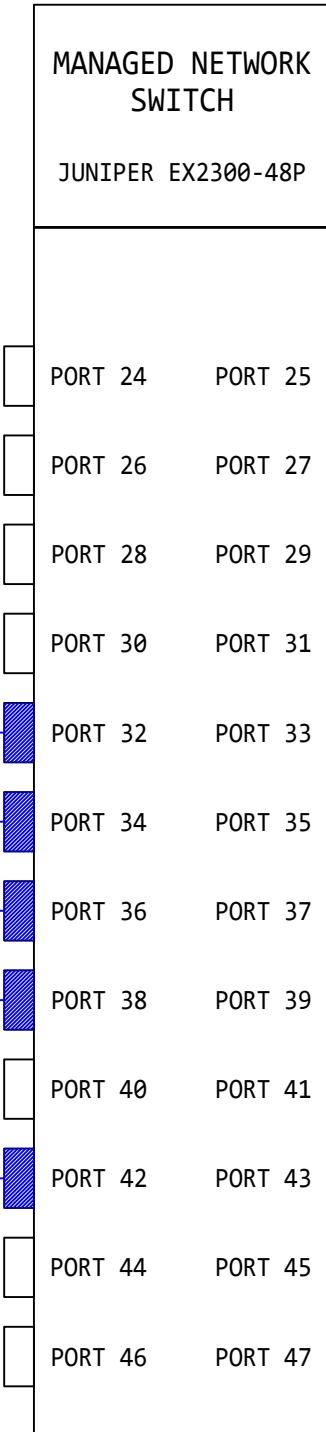
TO SLIDE MOTOR SIDE B

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				<b>BG</b> 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	2025-04-30	NETWORK SWITCH MODULE INTERCONNECT DRAWING PACKAGE JUNIPER NETWORK SWITCH (PORTS 0-23) - WIRING	REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A		A	PREV.	160	BG 125416-04
						DRAWN	RBL			SHEET	161	DWG RPS-160
						APPROVED				NEXT	161	

NETWORK SWITCH CONFIGURATION		
CATEGORY	POR	SUBNET MASK (CIDR)
camera	(Ports 0 - 7)	172.19.X.1/17
device	(Ports 8 -41)	172.20.X.1/24
alt-dev	(Ports 42-43)	172.22.X.1/24
HMI	(Ports 44-45)	172.19.[130+X].1/17
debug	(Ports 46-47)	172.18.[130+X].0/17

\*X = Cell Number



- TO ZM301 WEIGH INDICATOR      RJ45 to RJ45  
CABLE ID: CBL-202-2
- TO COGNEX CAMERA 1      M12 X-CODE MALE to RJ45  
CABLE ID: CBL-211-2
- TO PERCEPTION MODULE NET1      M12 X-CODE MALE to RJ45  
CABLE ID: CBL-212-1
- TO ROBOT CABINET      M12 X-CODE MALE to RJ45  
CABLE ID: CBL-222-2
- TO 4SPAN CONTROL CARD SIDE A      RJ45 to TBD (specified by 4span vendor)  
CABLE ID: CBL-160-3
- TO AISLE HMI      RJ45 to RJ45  
CABLE ID: CBL-61-1
- TO COGNEX CAMERA 2      M12 X-CODE MALE to RJ45  
CABLE ID: CBL-211-4
- TO PERCEPTION MODULE NET2      M12 X-CODE MALE to RJ45  
CABLE ID: CBL-212-2
- TO 4SPAN CONTROL CARD SIDE B      RJ45 to TBD (specified by 4span vendor)  
CABLE ID: CBL-160-4

EL PASO 124915-06 rev:A

REV	SECT.	DETAIL	JOB#
160	PREV.	160	BG 125416-04
161	SHEET	161	
162	NEXT	162	RPS-161

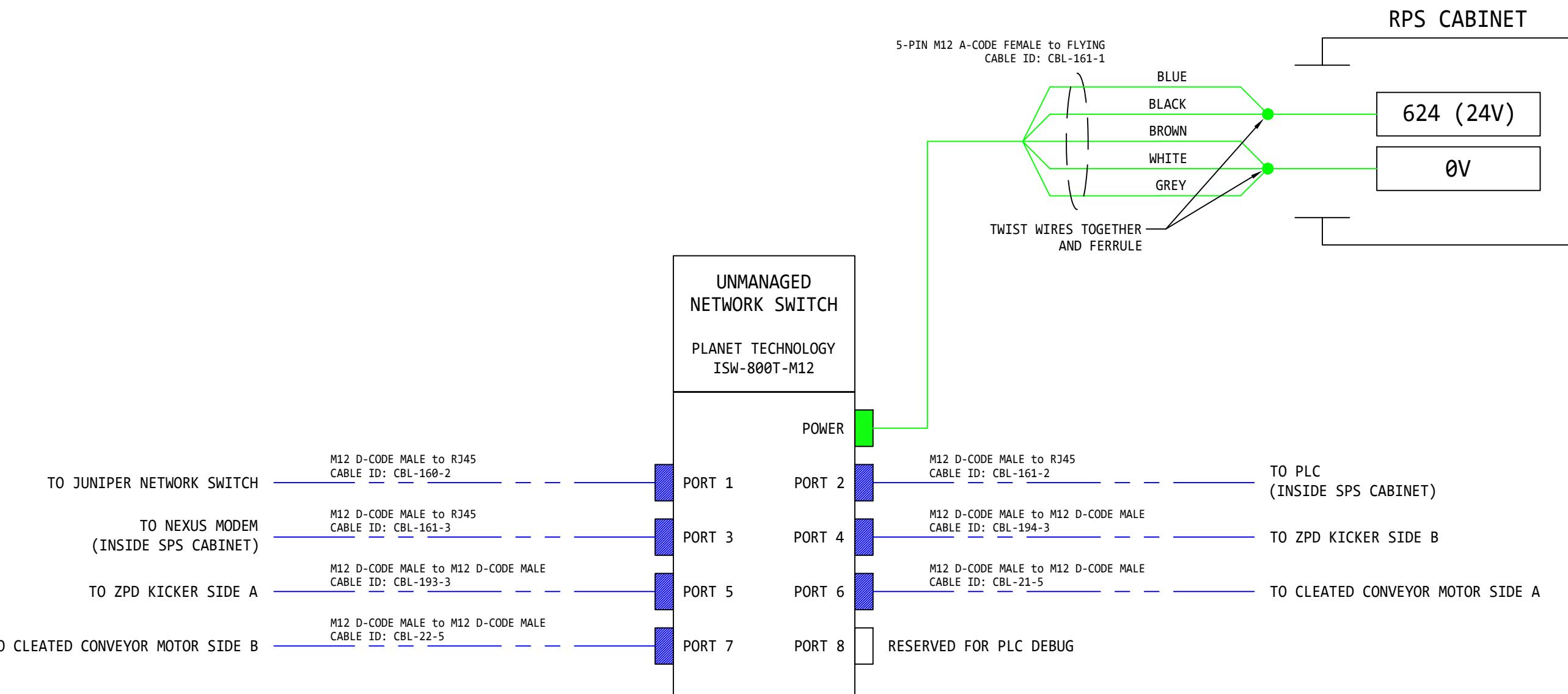
NETWORK SWITCH MODULE  
INTERCONNECT DRAWING PACKAGE  
JUNIPER NETWORK SWITCH (PORTS 24-47) - WIRING

REV	DATE	ENGR.	DESCRIPTION

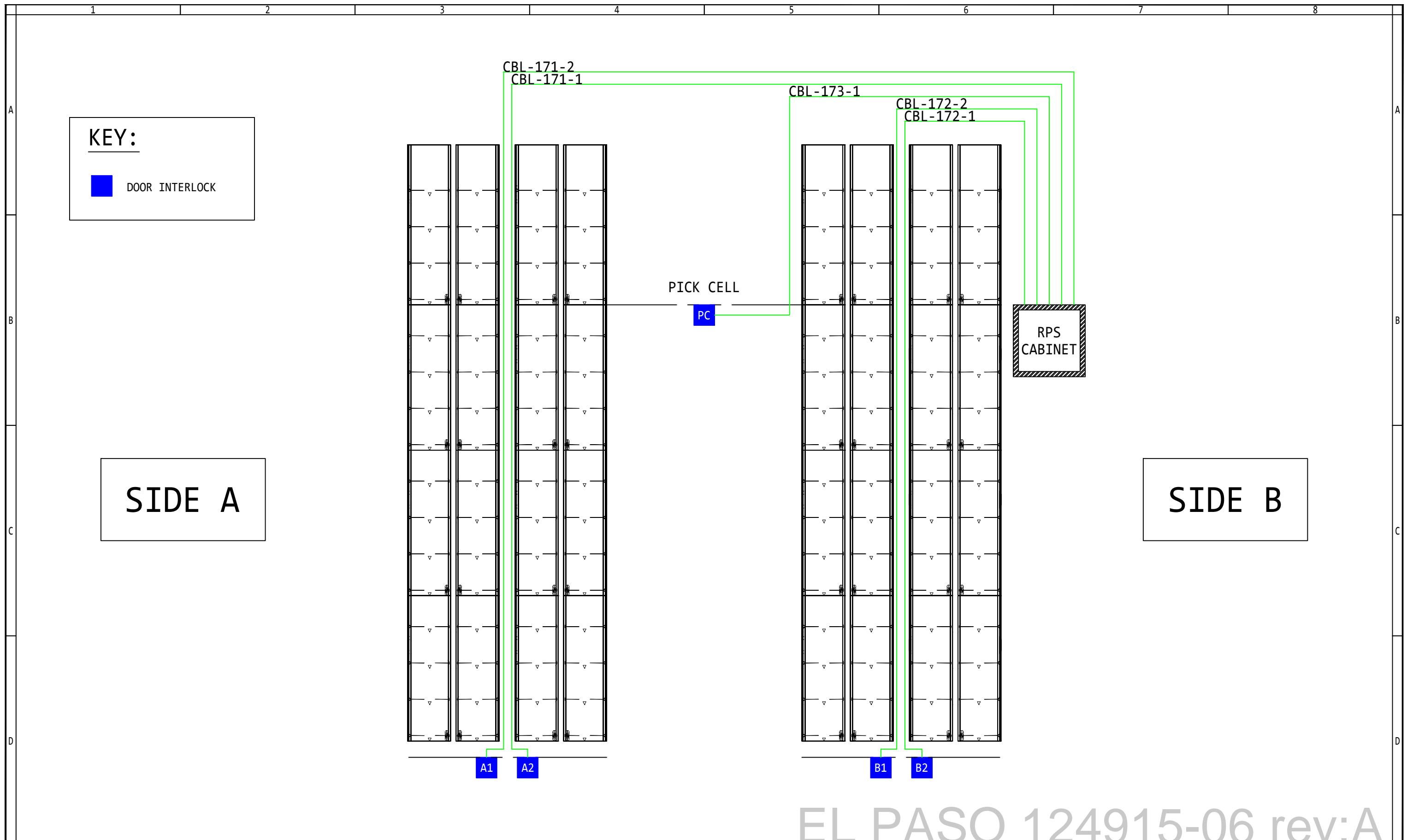
140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED



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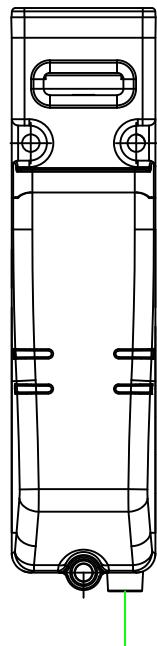
EL PASO 124915-06 rev:A

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REV	DATE	ENGR.	DESCRIPTION				PREV.	SHEET	170	RGS-170
				BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730			A	NEXT	171	DWG RPS-170

SIDE A

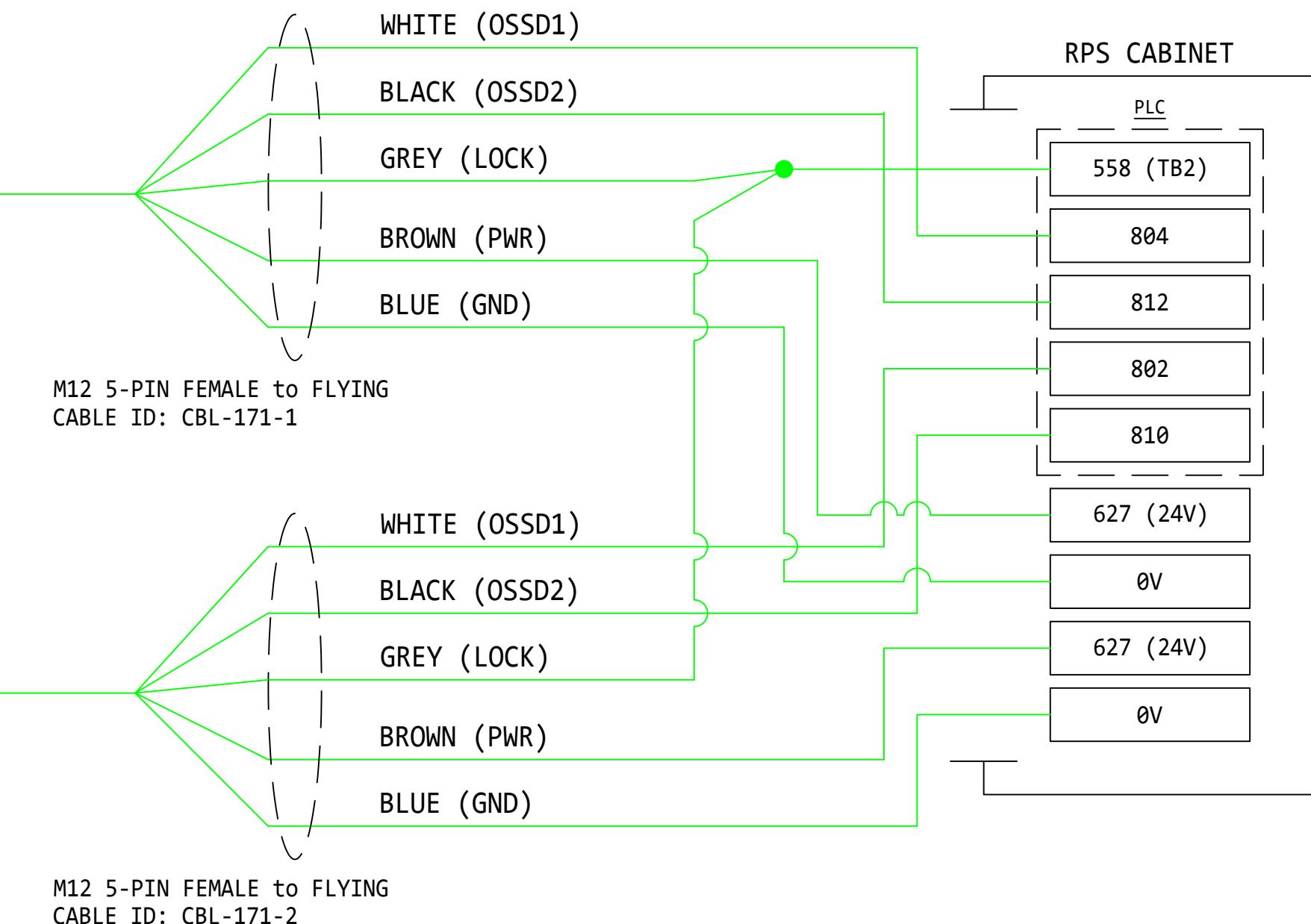
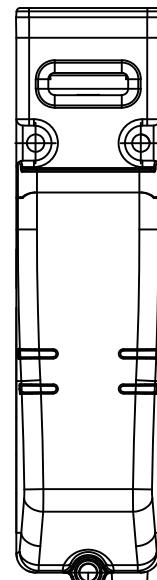
A1

440G-MZS20SNLJ



A2

440G-MZS20SNLJ



EL PASO 124915-06 rev:A

				BERKSHIRE GREY	
REV	DATE	ENGR.	DESCRIPTION	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.

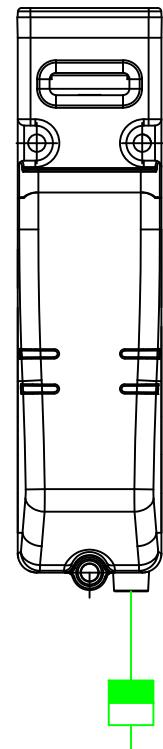
DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

DOOR INTERLOCK MODULE  
INTERCONNECT DRAWING PACKAGE  
DOOR INTERLOCKS - WIRING - SIDE A

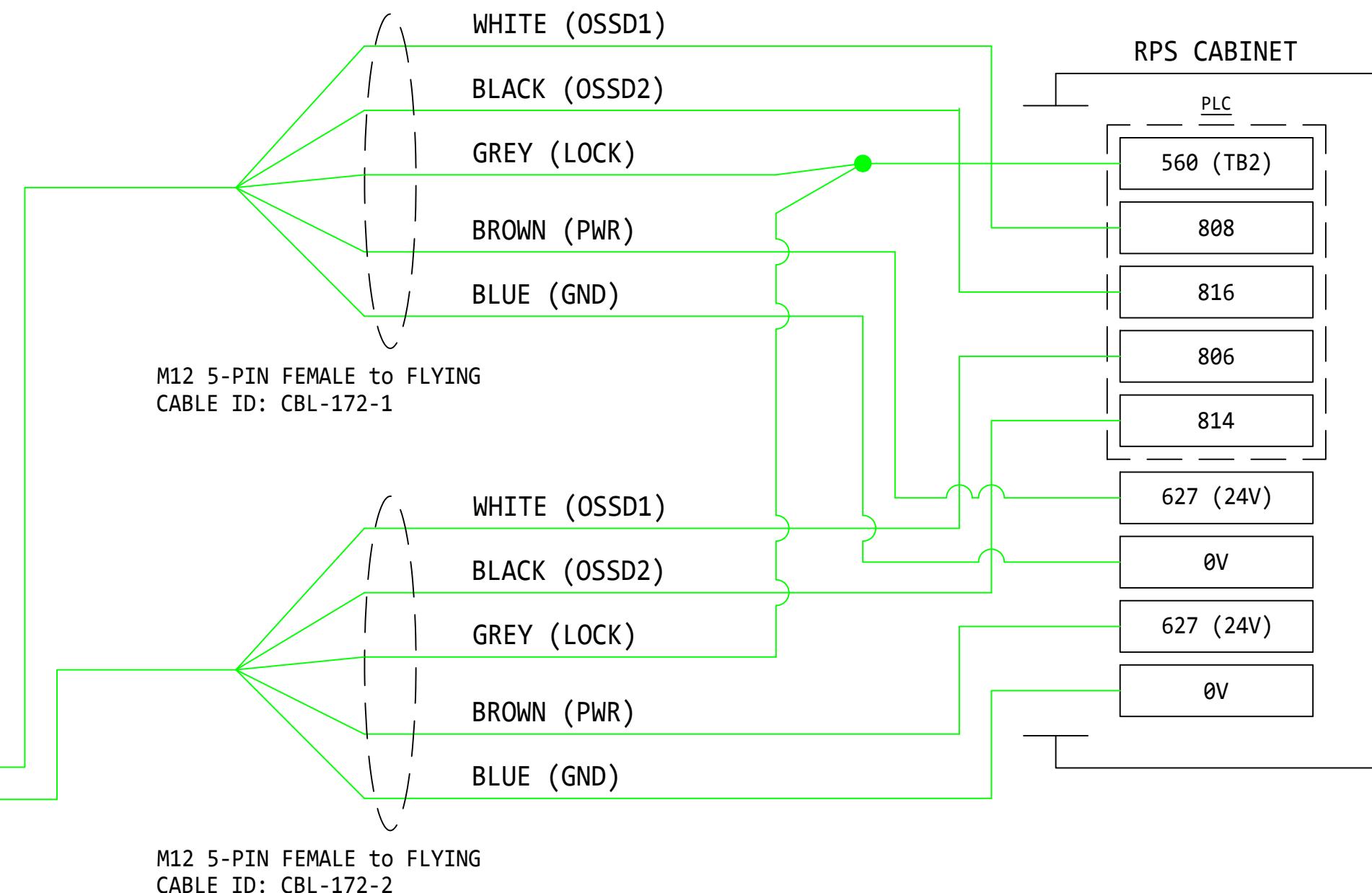
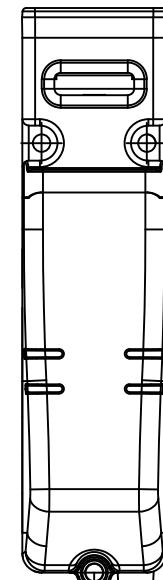
REV	SECT.	DETAIL	JOB#
PREV.	170		BG 125417-01
SHEET	171		
NEXT	172		DWG RPS-171

SIDE B

B1  
440G-MZS20SNLJ



B2  
440G-MZS20SNLJ



EL PASO 124915-06 rev:A

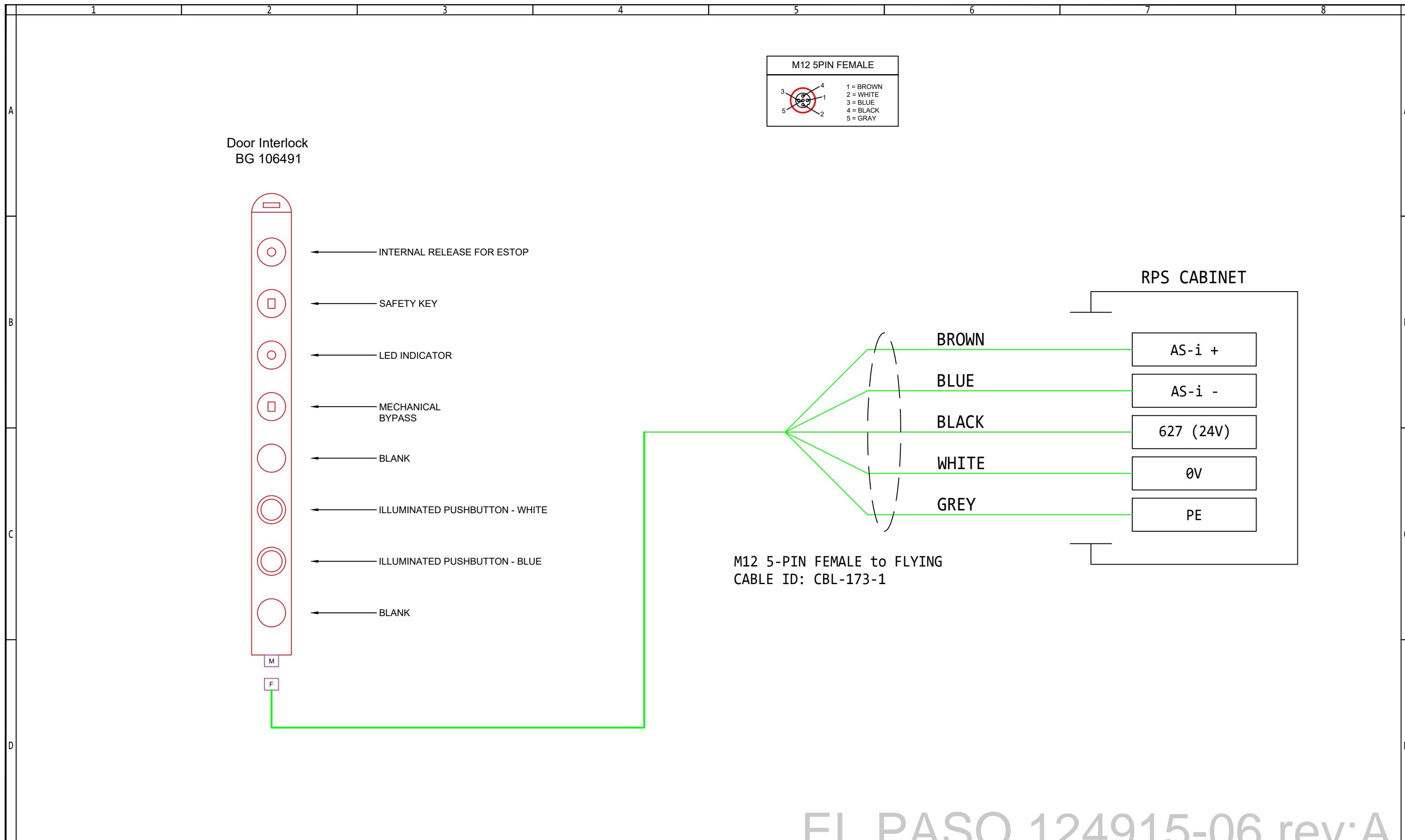
				BERKSHIRE GREY
REV	DATE	ENGR.	DESCRIPTION	140 SOUTH ROAD BEDFORD, MA 01730
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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

DOOR INTERLOCK MODULE  
INTERCONNECT DRAWING PACKAGE  
DOOR INTERLOCKS - WIRING - SIDE B

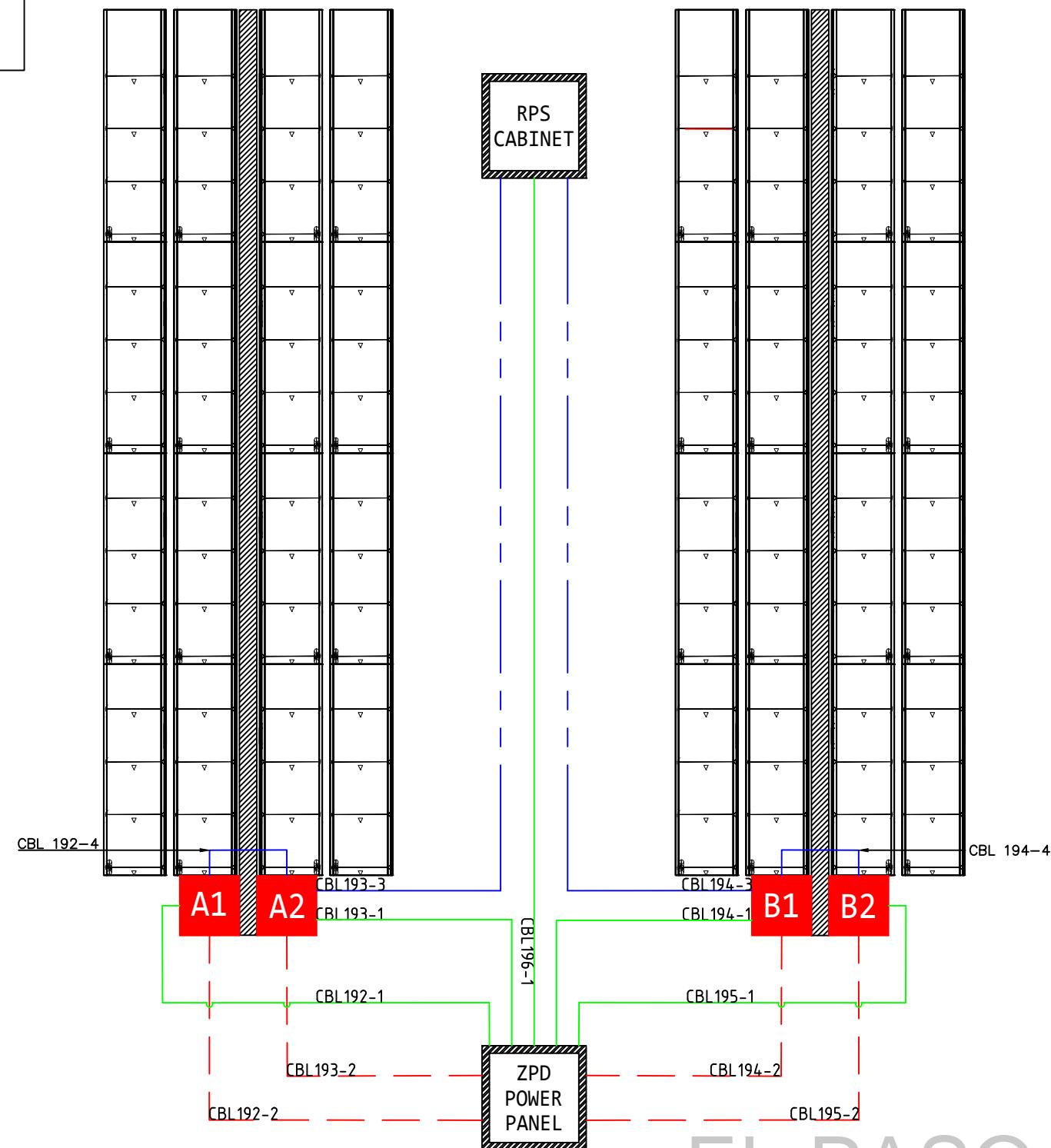
REV	SECT.	DETAIL	JOB#
PREV.	171		BG 125417-01
SHEET	172		RPS-172
NEXT	173		

1 2 3 4 5 6 7 8



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				<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	2025-04-30	DOOR INTERLOCK MODULE INTERCONNECT DRAWING PACKAGE DOOR INTERLOCKS - WIRING - PICK CELL	REV	SECT.	DETAIL	JOB#	
REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A		APPROVED	PREV.	172	173	BG 125417-01
										A			DWG RPS-173

**KEY:**
 JVL MAC800 ZPD MOTOR
**SIDE A****SIDE B**
**EL PASO 124915-06 rev:A**

REV	DATE	ENGR.	DESCRIPTION


 BERKSHIRE  
GREY  
140 SOUTH ROAD  
BEDFORD, MA 01730

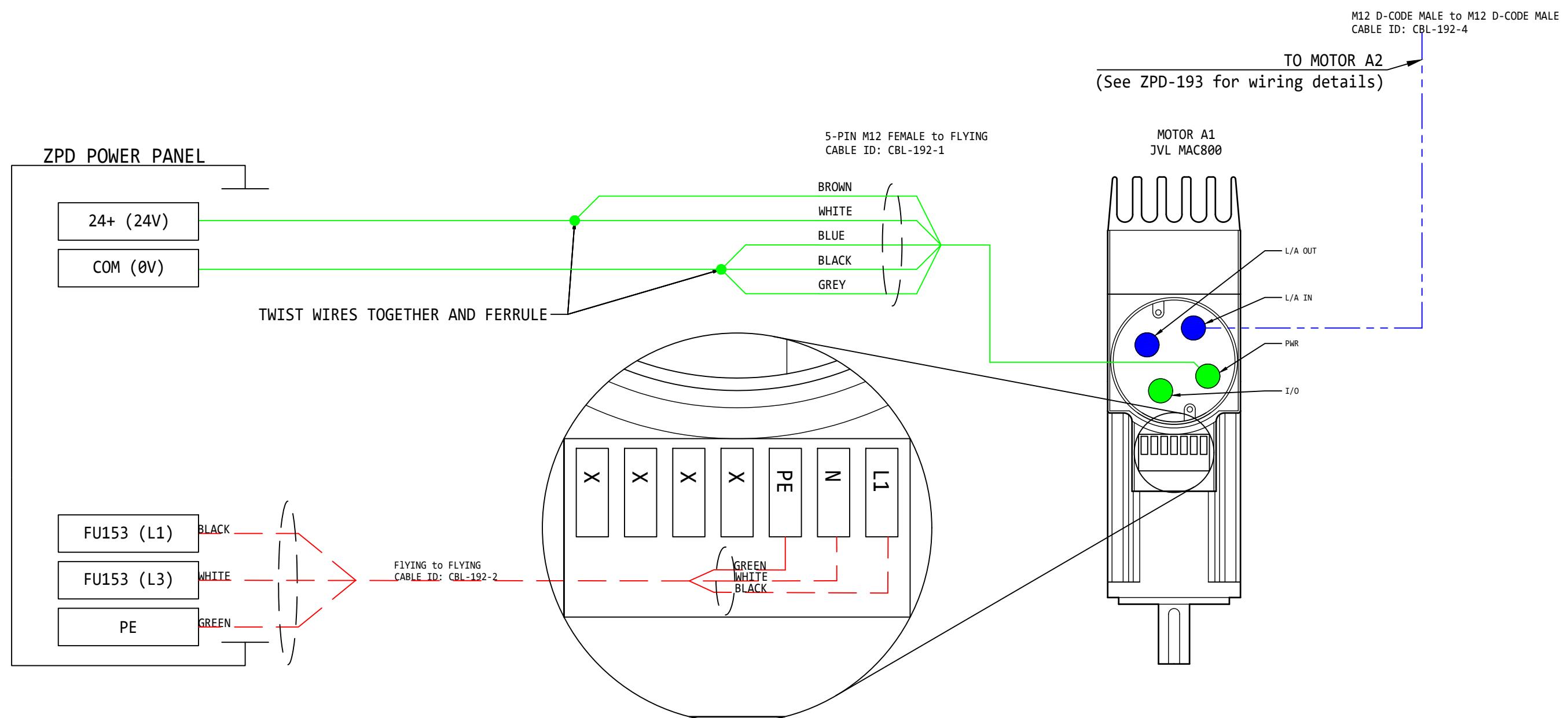
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 DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

 ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
MOTOR CONNECTION OVERVIEW

 REV A SECT. 190  
PREV. 190  
SHEET 192  
NEXT 192  
OVERVIEW  
JOB# BG 125419-01  
DWG RPS-190

## SIDE A



EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

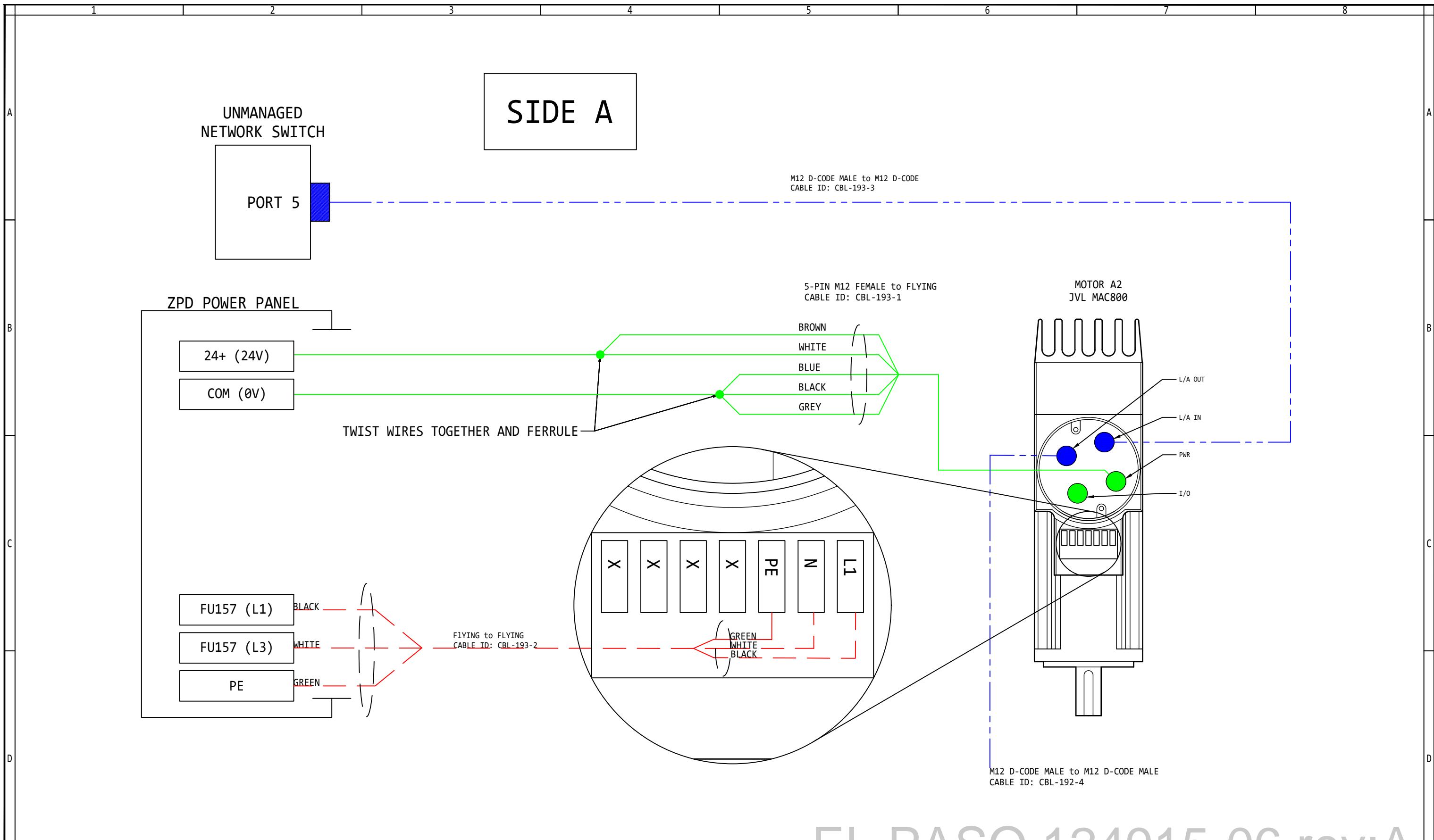


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DATE	2025-04-30
SCALE	N/A
DRAWN	RBL
APPROVED	

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

REV	SECT.	DETAIL	JOB#
	PREV.	190	BG 125419-01
	SHEET	192	
A	NEXT	193	RPS-192

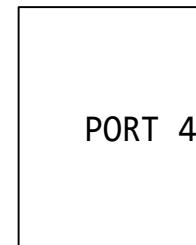


EL PASO 124915-06 rev:A

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 (L1) BLACK

FU161 (L3) WHITE

PE GREEN

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

MOTOR B1  
JVL MAC800

BROWN

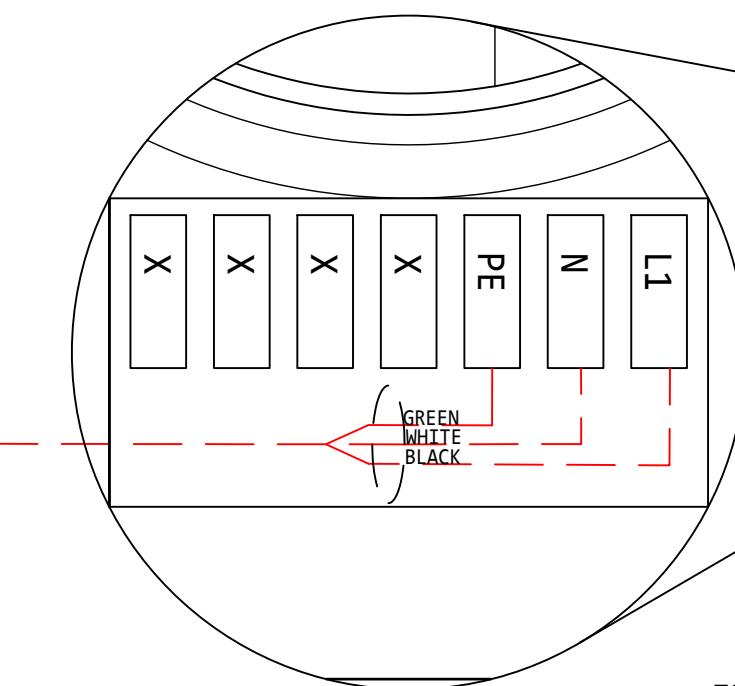
WHITE

BLUE

BLACK

GREY

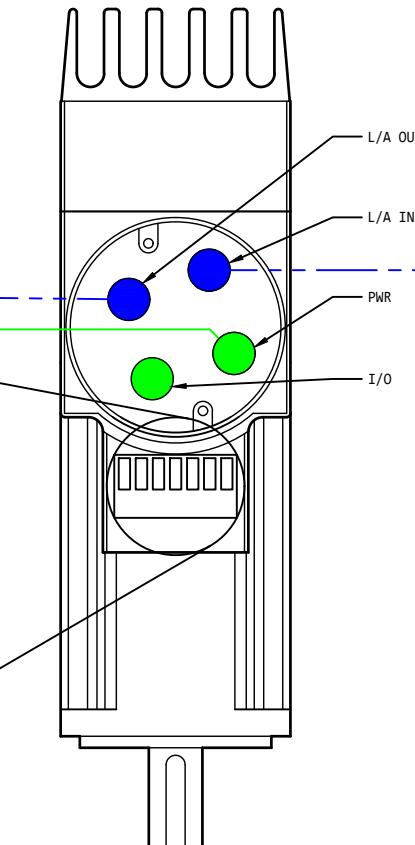
TWIST WIRES TOGETHER AND FERRULE



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



EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION



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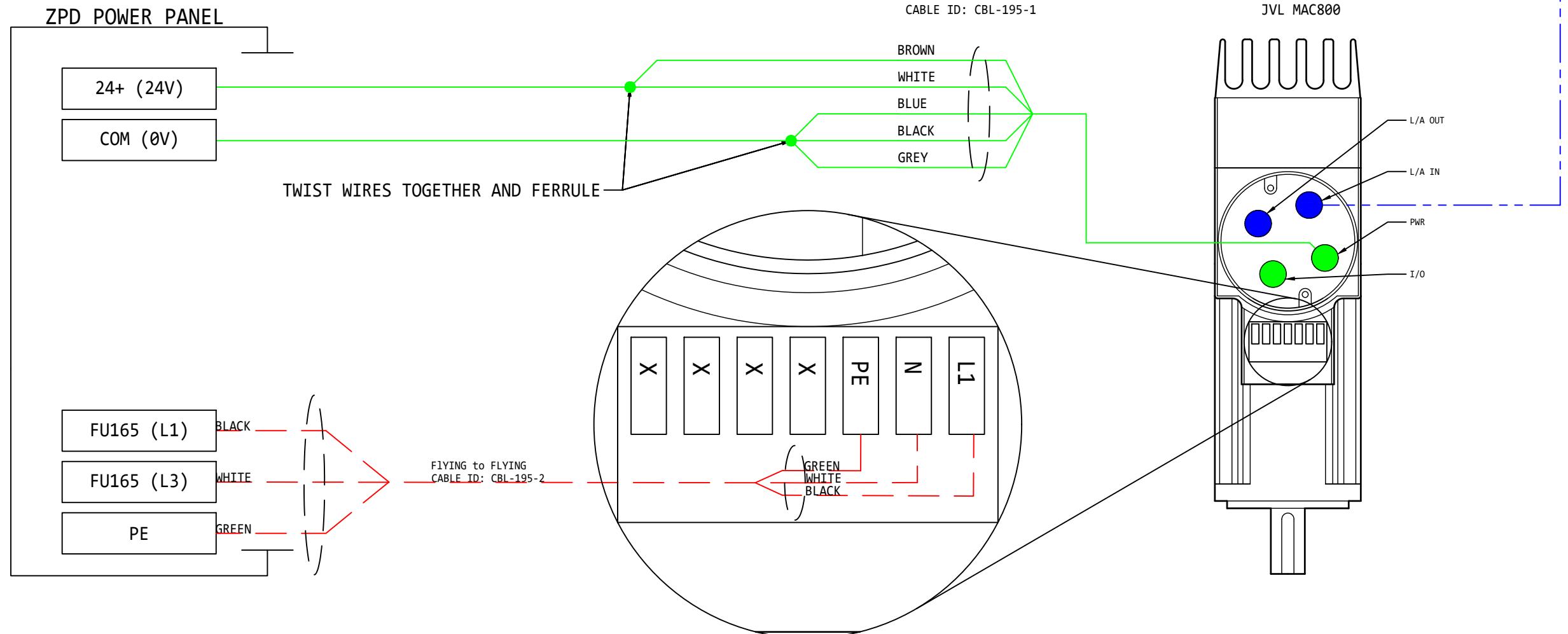
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

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

REV	SECT. PREV. SHEET	DETAIL 193 194	JOB# BG 125419-01
A			
			DWG RPS-194

## SIDE B

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



EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

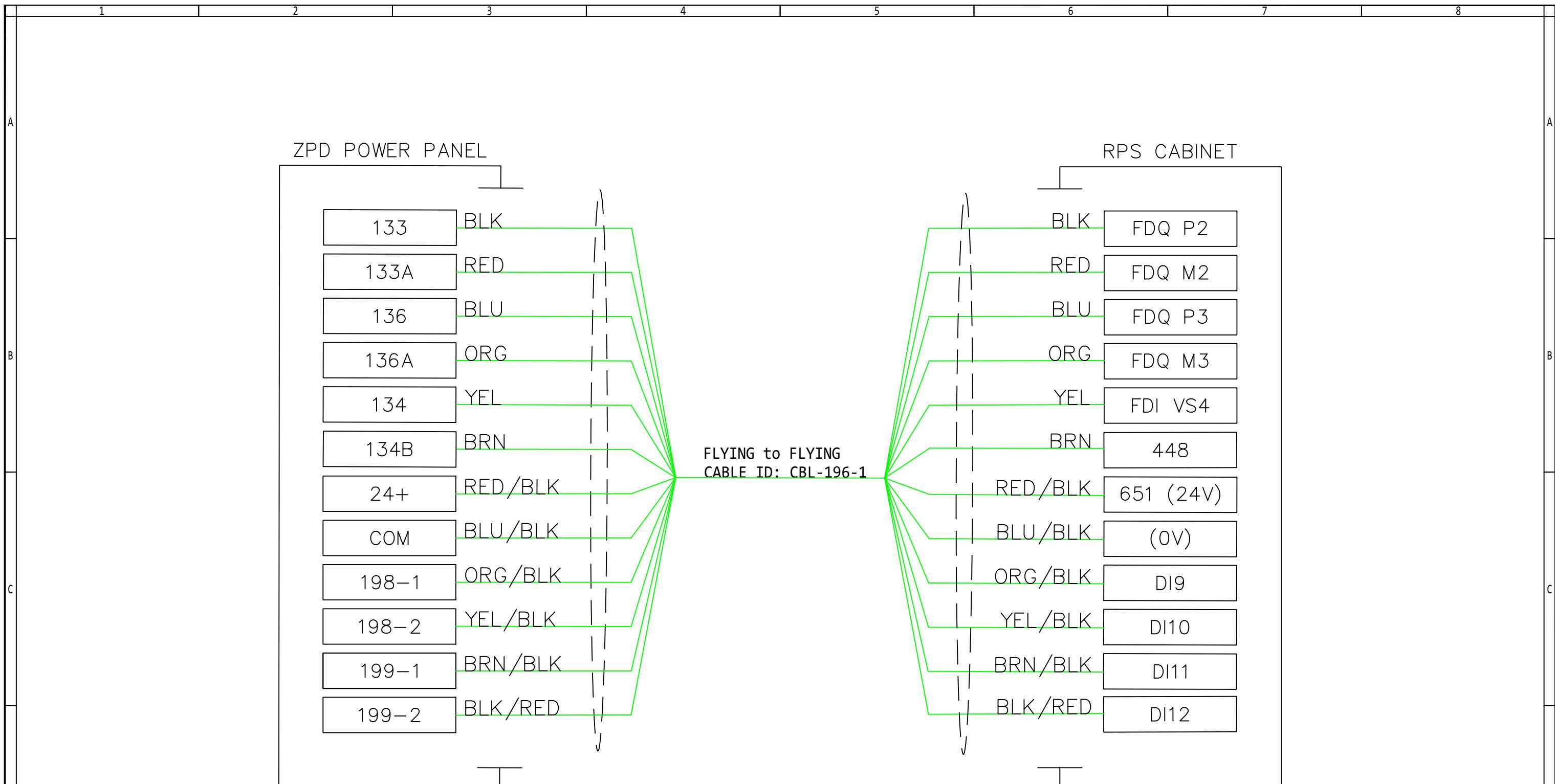


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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

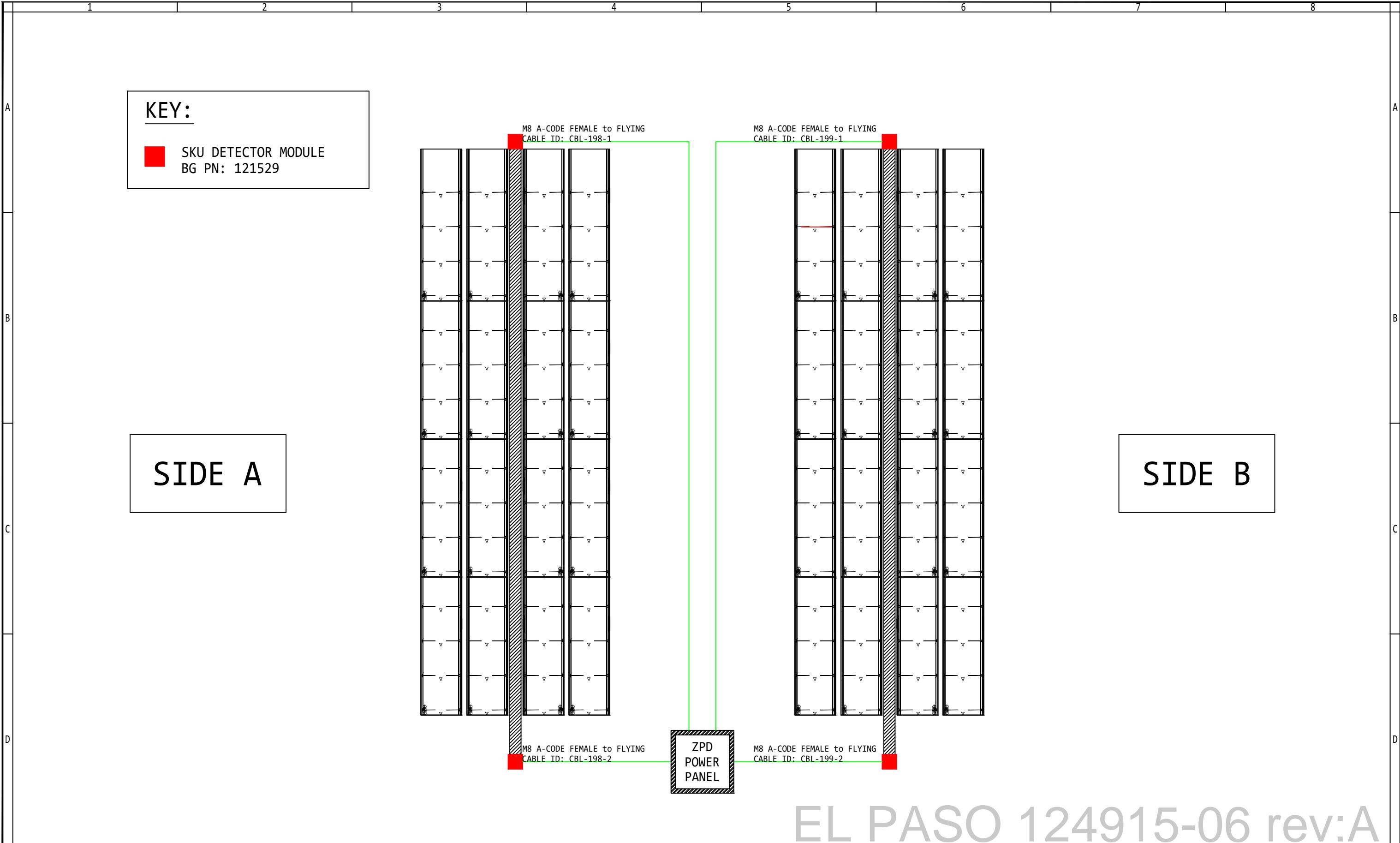
ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
B2 KICKER MOTOR - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	194	BG 125419-01
	SHEET	195	
A	NEXT	196	RPS-195



EL PASO 124915-06 rev:A

1 2 3 4 5 6 7 8



EL PASO 124915-06 rev:A

REV	DATE	ENGR.	DESCRIPTION

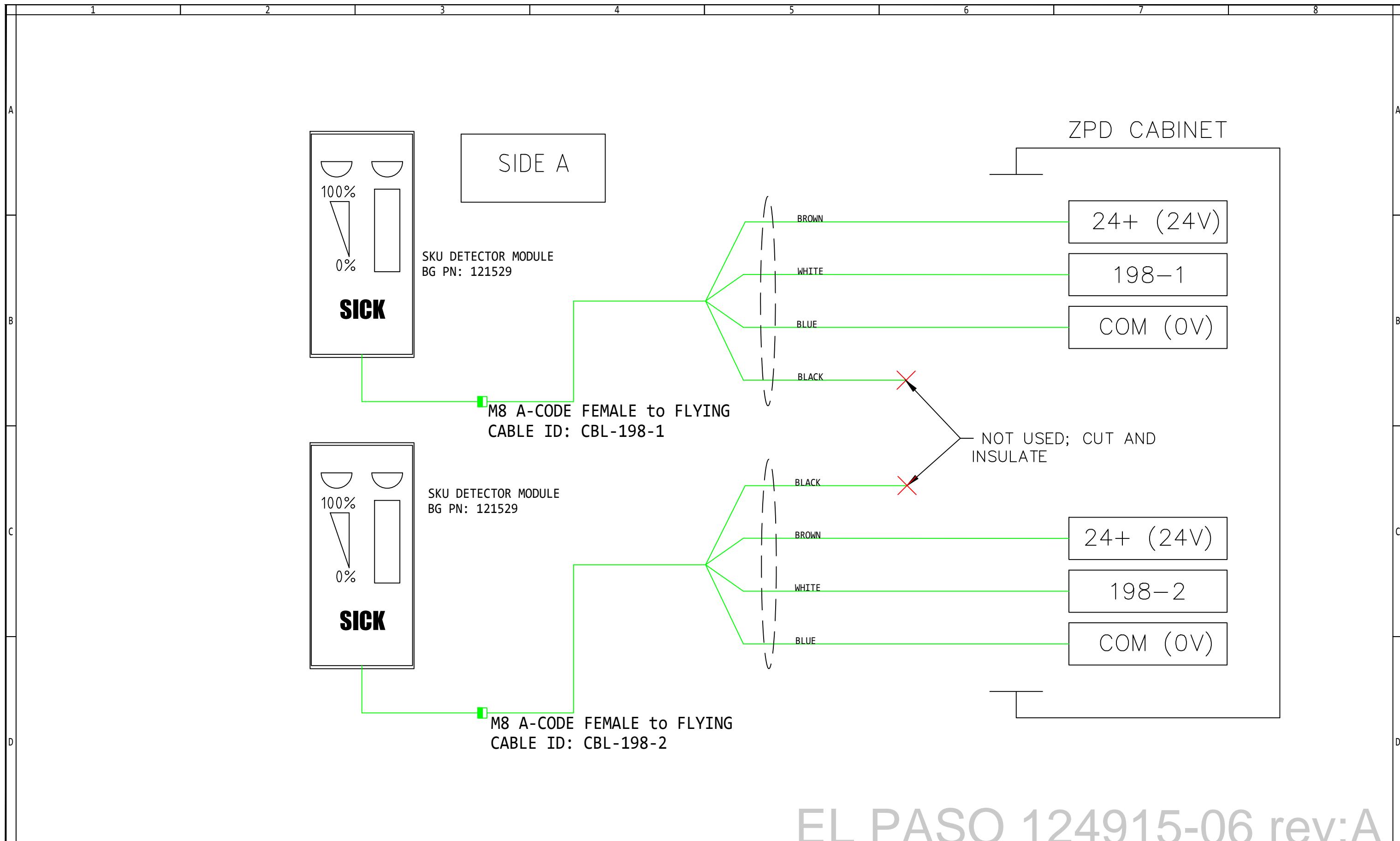


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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

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

REV	SECT.	OVERVIEW	JOB#
	PREV.	196	BG 125419-01
	SHEET	197	
A	NEXT	198	RPS-197



REV	DATE	ENGR.	DESCRIPTION

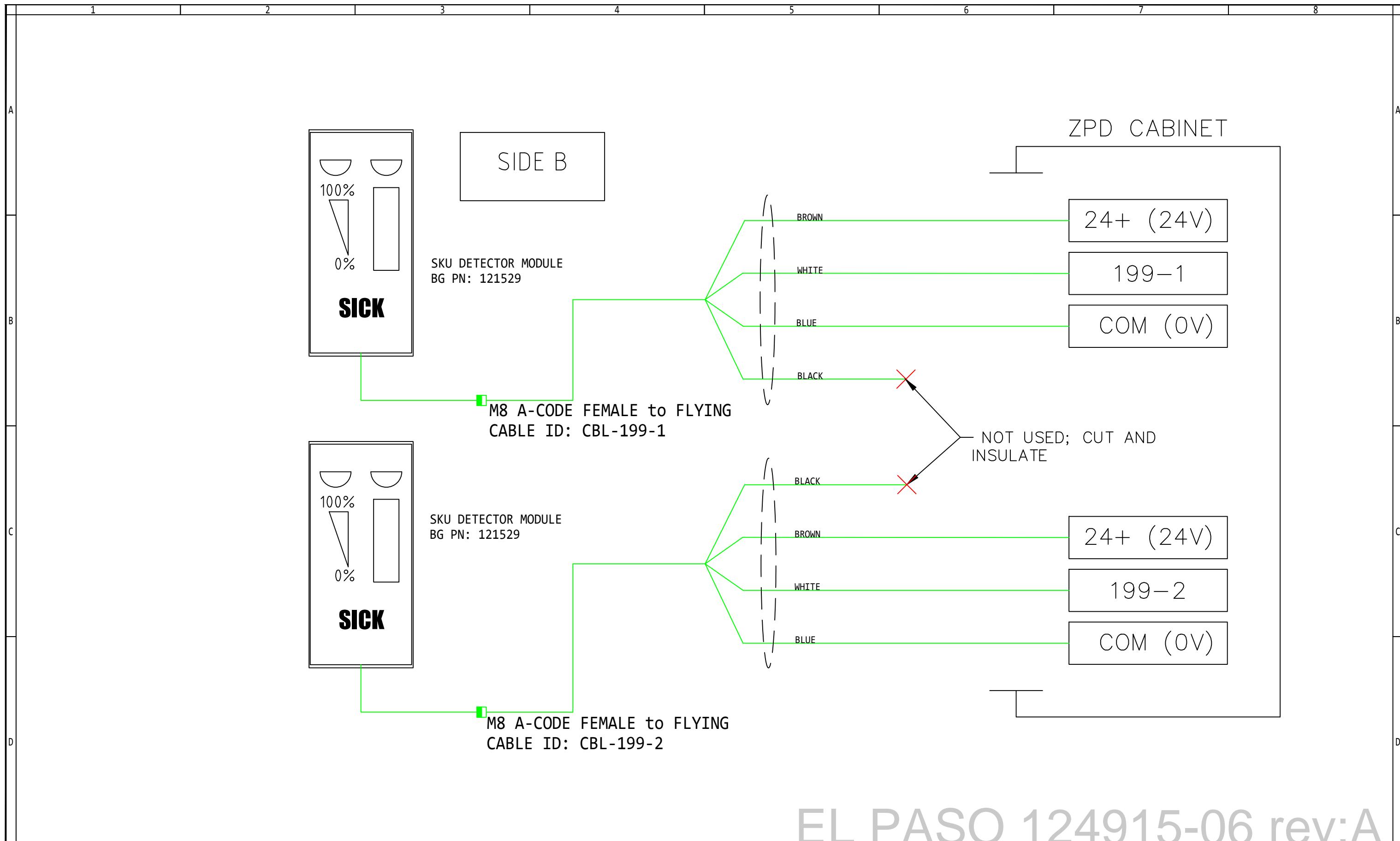


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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

ZERO PENALTY DISCHARGE MODULE  
INTERCONNECT DRAWING PACKAGE  
SKU DETECTION SYSTEM A - WIRING

REV	SECT. PREV.	DETAIL 197	JOB# BG 125419-01
A	SHEET 198	199	DWG RPS-198
	NEXT 199		



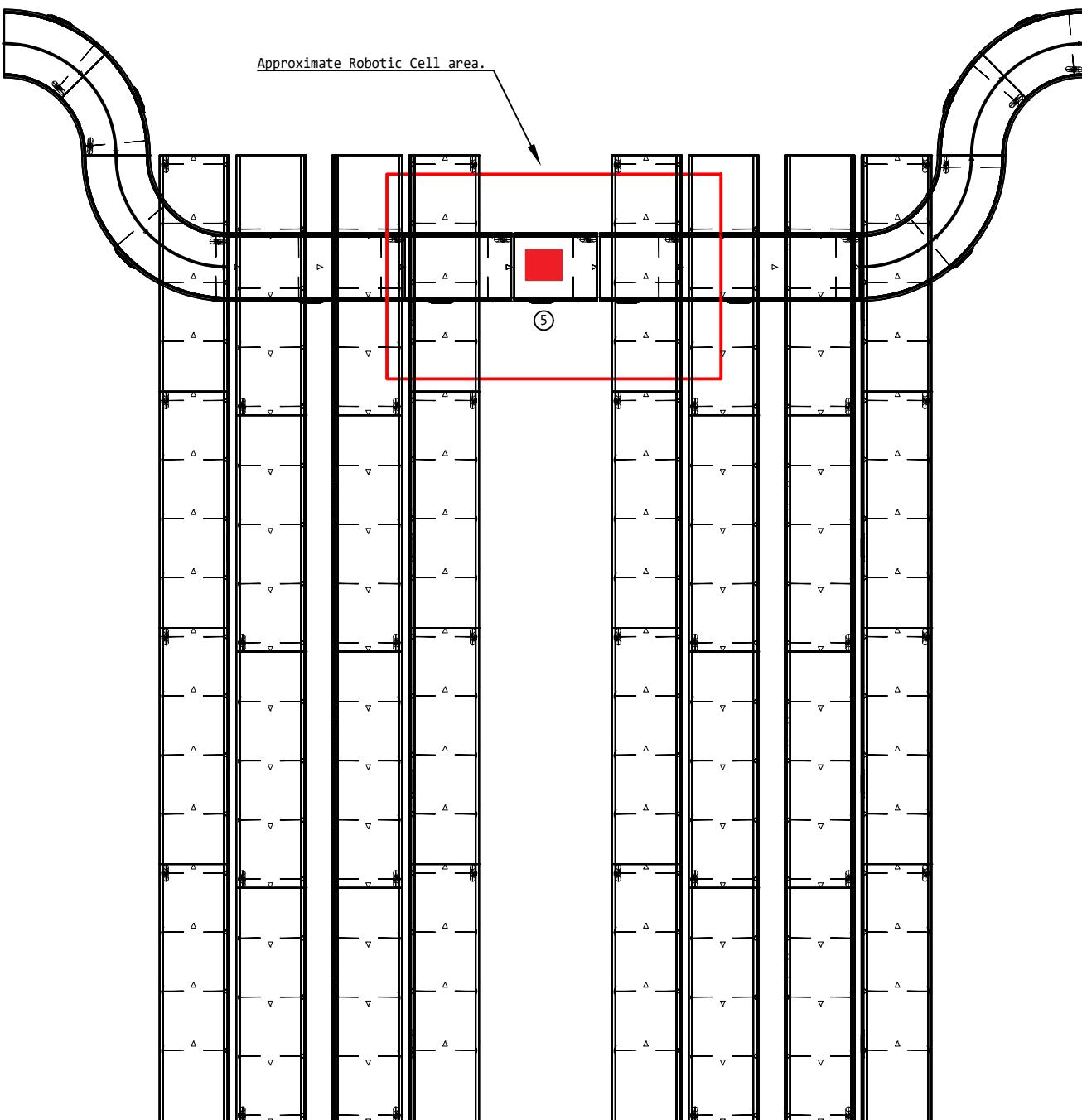
				<b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.  DATE 2025-04-30 SCALE N/A DRAWN RBL APPROVED	ZERO PENALTY DISCHARGE MODULE INTERCONNECT DRAWING PACKAGE SKU DETECTION SYSTEM B - WIRING	REV	SECT.	DETAIL	JOB#
REV	DATE	ENGR.	DESCRIPTION				PREV.	198	199	BG 125419-01
							SHEET	199	A	RPS-199
							NEXT			DWG

USE THE MECHANICAL DRAWINGS FOR PRECISE MOUNTING LOCATIONS AND INSTALLATION DETAILS FOR ALL SUB-SYSTEMS AND COMPONENTS.

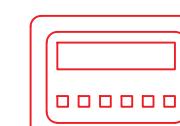
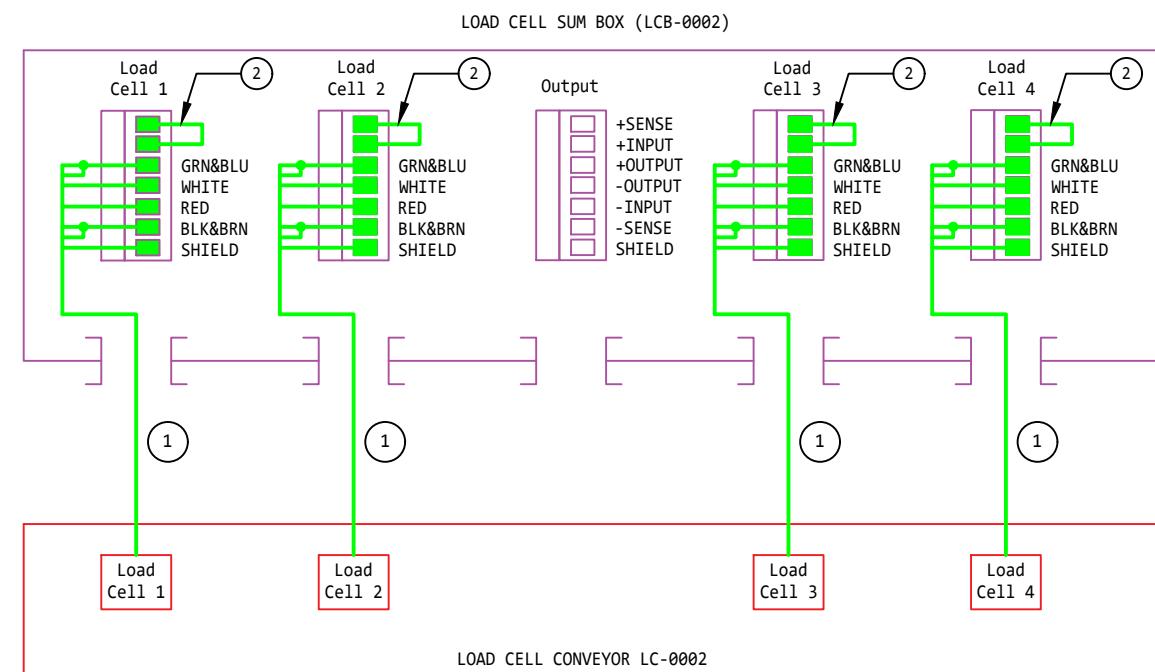
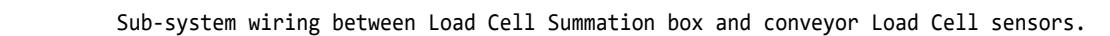
KEY:

NOTE:

1. Verify the 4 conductor load cell cables are the same lengths.
2. Pre-installed shorting connector.
3. Cut and insulate all unused wires.
4. Refer to the mechanical drawings for detailed peripheral, component, and sub-
5. Weigh Scale sub-system - consists of Load Cell sensors, Load Cell Conveyor, L



RPS CABINET  
(P-0002)



# EL PASO 124

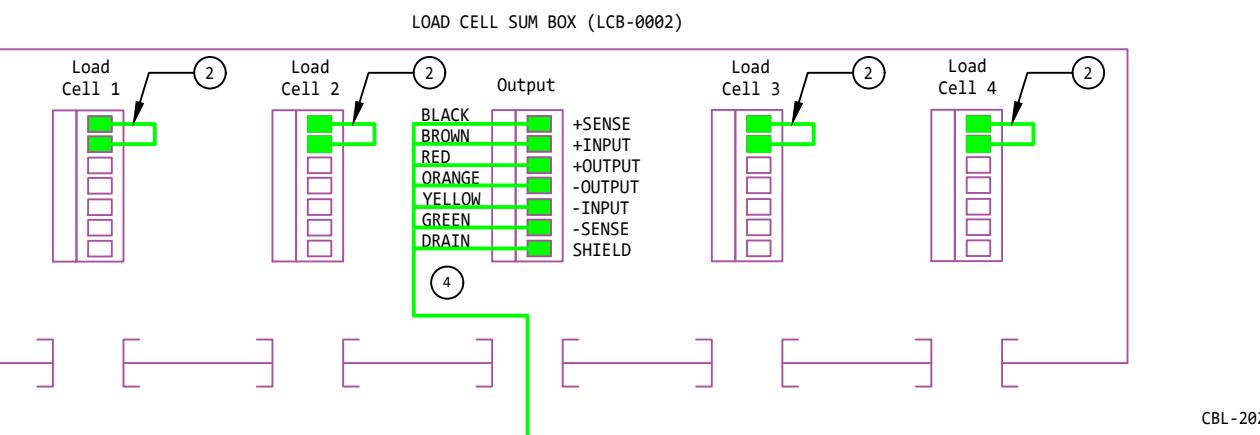
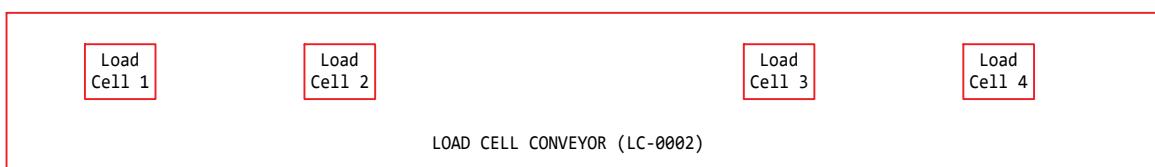
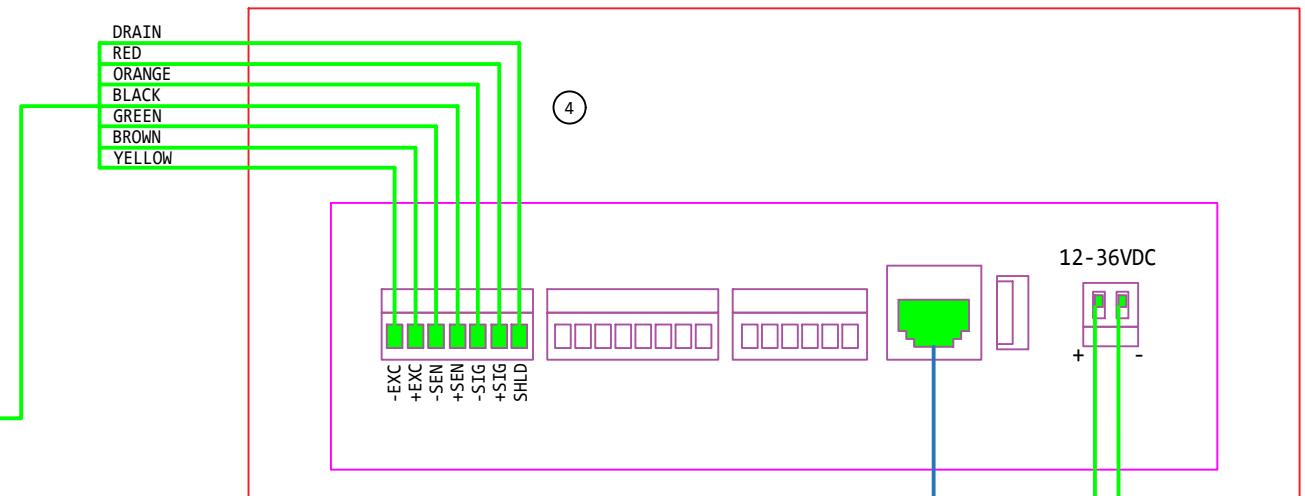
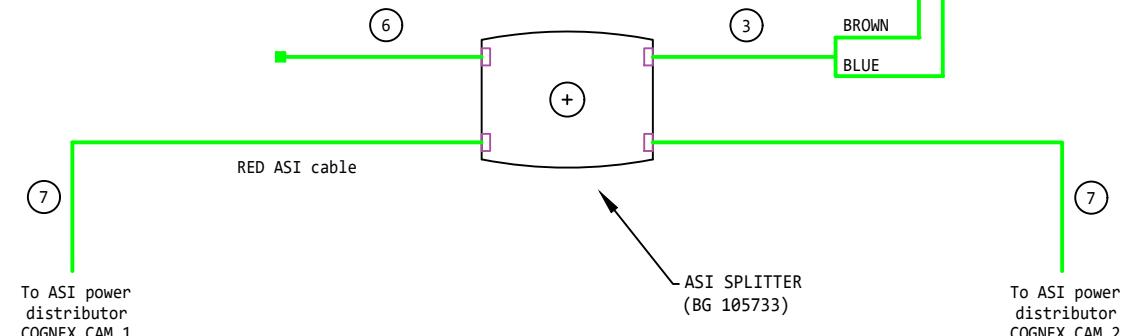
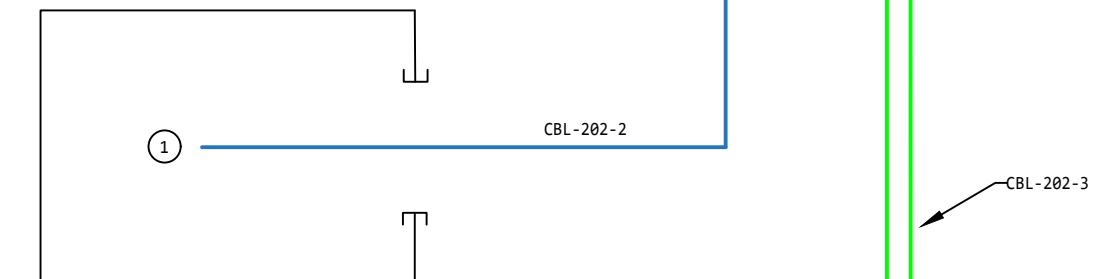
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WEIGHING CONVEYOR MODULE  
INTERCONNECT DRAWING PACKAGE  
WEIGHTING CONVEYOR - LOAD CELLS - WTRNG

**NOTE:**

1. Refer to the DevOps network document for port assignment details..
2. Pre-installed shorting connector.
3. Cut ASI RED flat cable to length.
4. Install heatshrink to shield/drain wires.
5. Refer to the mechanical drawings for detailed peripheral, component, and sub-system locations.
6. Leave approximately 12" of excess RED ASI cable and terminate with ASI end-cap (BG 104830).
7. Goes to ASI power distributor and connects to Cognex cams. Refer to RPS-211

A

**ZM301 WEIGH SCALE INDICATOR (WIT-0002)****MANAGED NETWORK SWITCH (NS-0002)**

**EL PASO 124915-06 rev:A**

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REV	DATE	ENGR.	DESCRIPTION							DWG RPS-202

USE THE MECHANICAL DRAWINGS FOR PRECISE MOUNTING LOCATIONS AND INSTALLATION DETAILS FOR ALL SUB-SYSTEMS AND COMPONENTS.

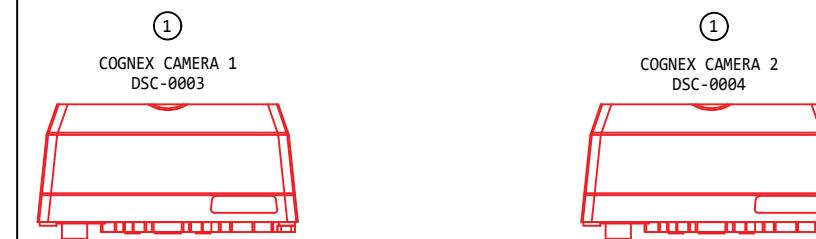
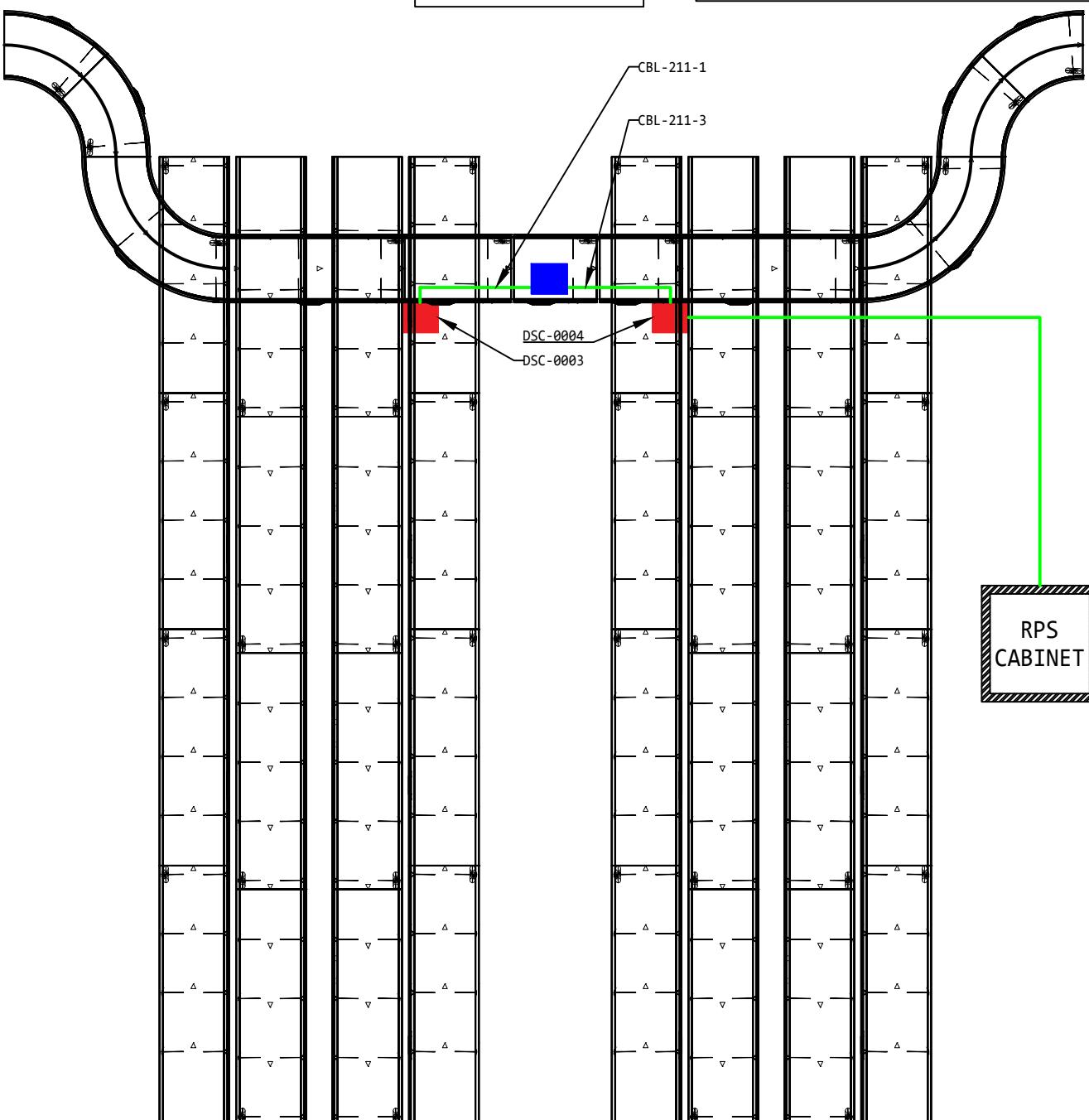
KEY:	
Dimensioning SKU Camera	
Weigh Scale Sub-System	

NOTE:	
1.	SKU Dimensioning Camera (BG 109786).
2.	Refer to mechanical drawings for detailed locations of all peripherals, components, and sub-systems.
3.	Refer to the DevOps network document for port assignment details.
4.	ASI power distributor (Bihl Weidemann BW3348 - BG 109453).
5.	Cut and insulate all unused wires.
6.	ASI splitter that goes to weigh scale. Refer to RPS-202
7.	Leave approximately 12" of excess RED ASI cable and terminate with ASI end-cap (BG 104830).

KEY	
—	LV CONNECTIONS
—	HV CONNECTIONS
—	ETHERNET/COMMS

M12 12PIN FEMALE	
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	

M12 8PIN MALE X-CODE	
1 = WH/OG 2 = OG 3 = WH/GN 4 = GN 5 = WH/BU 6 = BU 7 = WH/BN 8 = BN	



F M

CBL-211-4

CBL-211-2

MANAGED NETWORK SWITCH (NS-0002)

CBL-211-1

CBL-211-3

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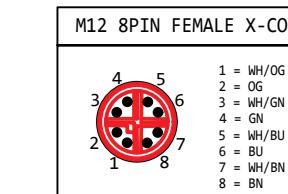
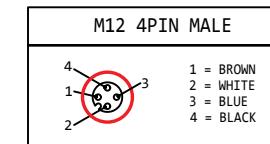
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**NOTE:**

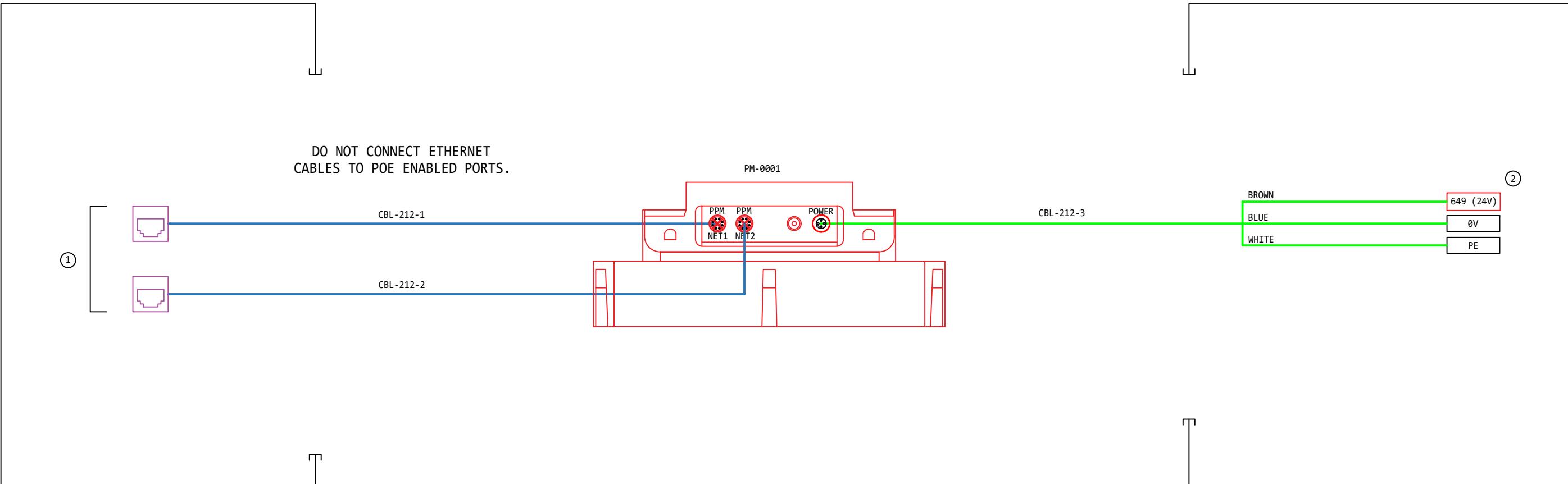
1. Refer to the DevOps network document for port assignment details.
2. Protection diode terminal blocks (reference document BG 107746).
3. Refer to the mechanical drawings for all peripherals, components, and sub-systems locations.
4. Cut and insulate all unused wires.



KEY	
—	LV CONNECTIONS
—	HV CONNECTIONS
—	ETHERNET/COMMS

MANAGED NETWORK SWITCH (NS-0002)

RPS CABINET (P-0002)



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DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

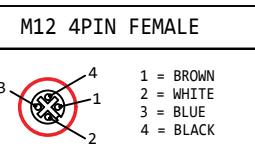
PICK CELL PERIPHERALS  
INTERCONNECT DRAWING PACKAGE  
PERCEPTION MODULE - WIRING

REV	SECT.	DETAIL	JOB#
PREV.	211		BG 125421-01
SHEET	212		
NEXT	213	DWG	RPS-212

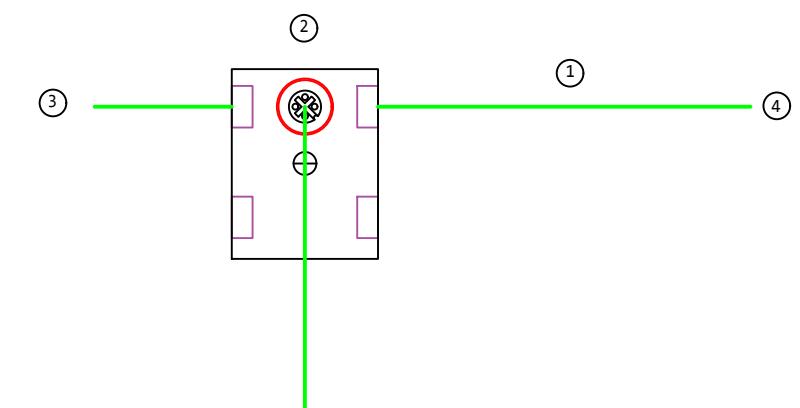
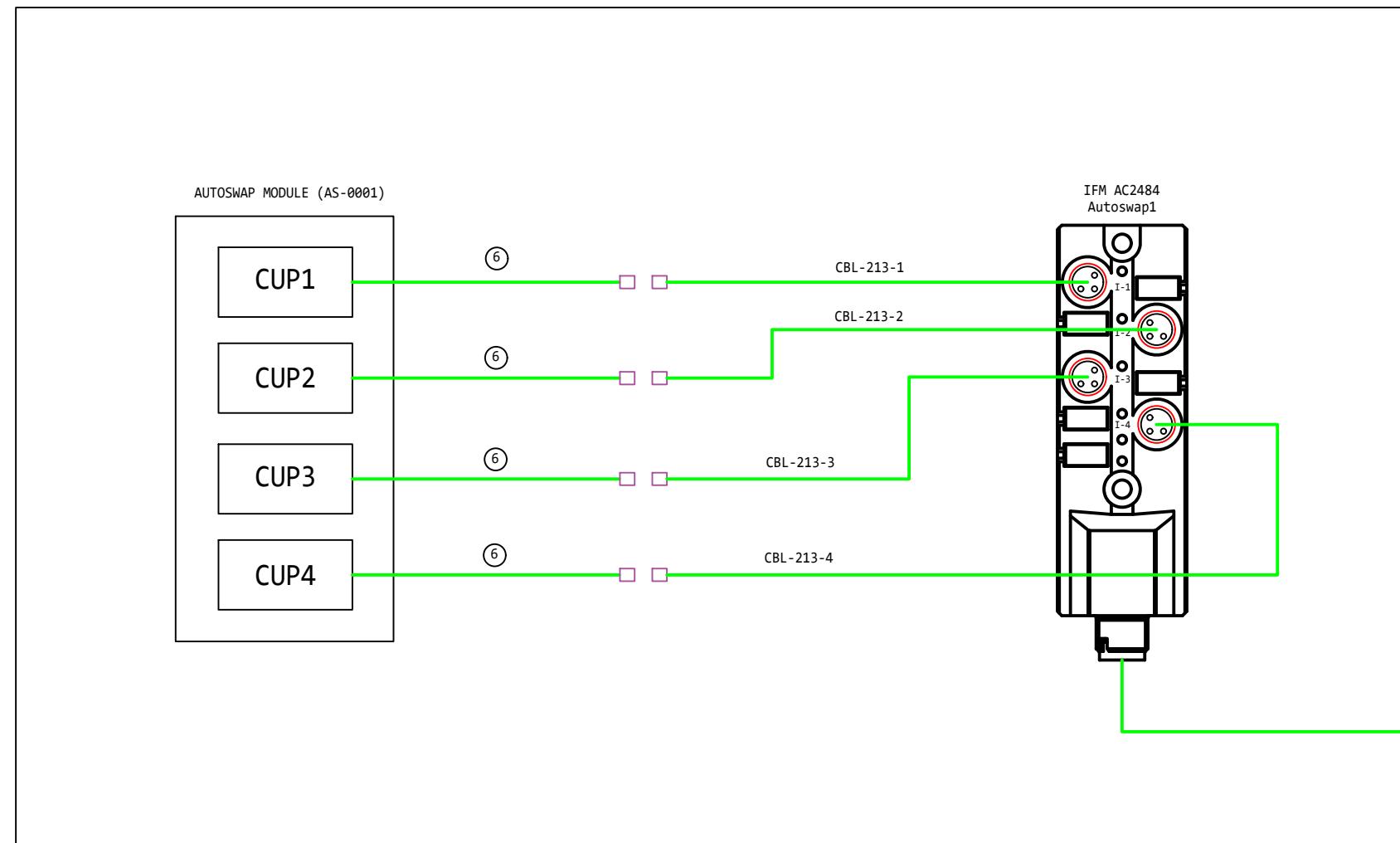
REV	DATE	ENGR.	DESCRIPTION

**NOTE:**

1. Connections to AUTOSWAP via the ASI to M12 converter uses yellow ASI cables with 1.5mm<sup>2</sup> cross-section or 16AWG equivalent (16A max rated).
2. ASI Flat Cable to M12 Converter (BG 105739).
3. Yellow ASI cable continues to other devices and sub-systems, if not, then terminate with ASI end-caps (BG 104830).
4. Yellow ASI cable continued from the main branch of the Electrical Cabinet.
5. Refer to the mechanical drawings for detailed locations of peripherals, components, and sub-systems.
6. Cable with 3PIN M8 male connector comes attached with the device.



RPS-00 ROBOTIC WORKCELL

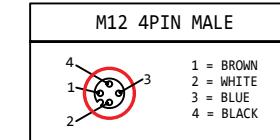
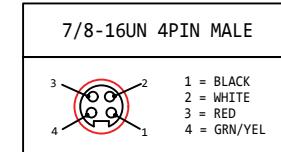


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REV	DATE	ENGR.	DESCRIPTION			SCALE	N/A		PREV.	212	213	BG 125421-01
						DRAWN	RBL		SHEET	213	214	DWG RPS-213
						APPROVED			NEXT	214		

1 2 3 4 5 6 7 8

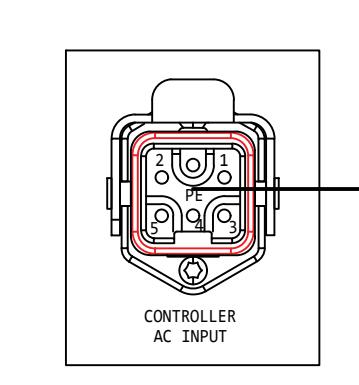
**NOTE:**  
1. Refer to the mechanical drawings for locations of all peripherals, components, and sub-systems.  
2. Cut and insulate all unused wires.



KEY	
—	LV CONNECTIONS
—	HV CONNECTIONS
—	ETHERNET/COMMS

## RSR-00 WORKCELL

ABB OMNICORE C90XT ROBOT CONTROL CABINET (RC-0001)



CBL-221-1

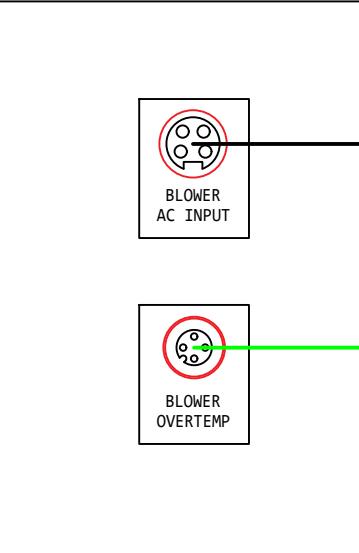
Cable assembly required. Connector is included with the robot controller. See robot controller user manual for instructions.

RPS CABINET (P-0002)

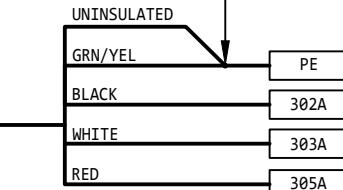


TWIST WIRES TOGETHER AND FERRULE

PNEUMATIC CONTROL MODULE (PCM-0001)



CBL-221-2



CBL-221-3



EL PASO 124915-06 rev:A

ROBOT AND PNEUMATIC CONTROL MODULE  
INTERCONNECT DRAWING PACKAGE  
ROBOT & PCM - MAIN POWER - WIRING

<b>BG</b>	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 2025-04-30
140 SOUTH ROAD BEDFORD, MA 01730		SCALE N/A	DRAWN RBL

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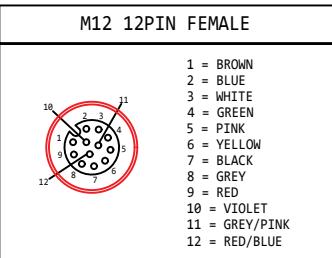
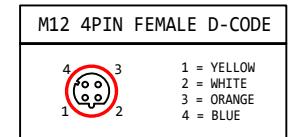
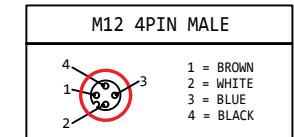
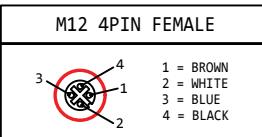
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

ROBOT AND PNEUMATIC CONTROL MODULE  
INTERCONNECT DRAWING PACKAGE  
ROBOT & PCM - MAIN POWER - WIRING

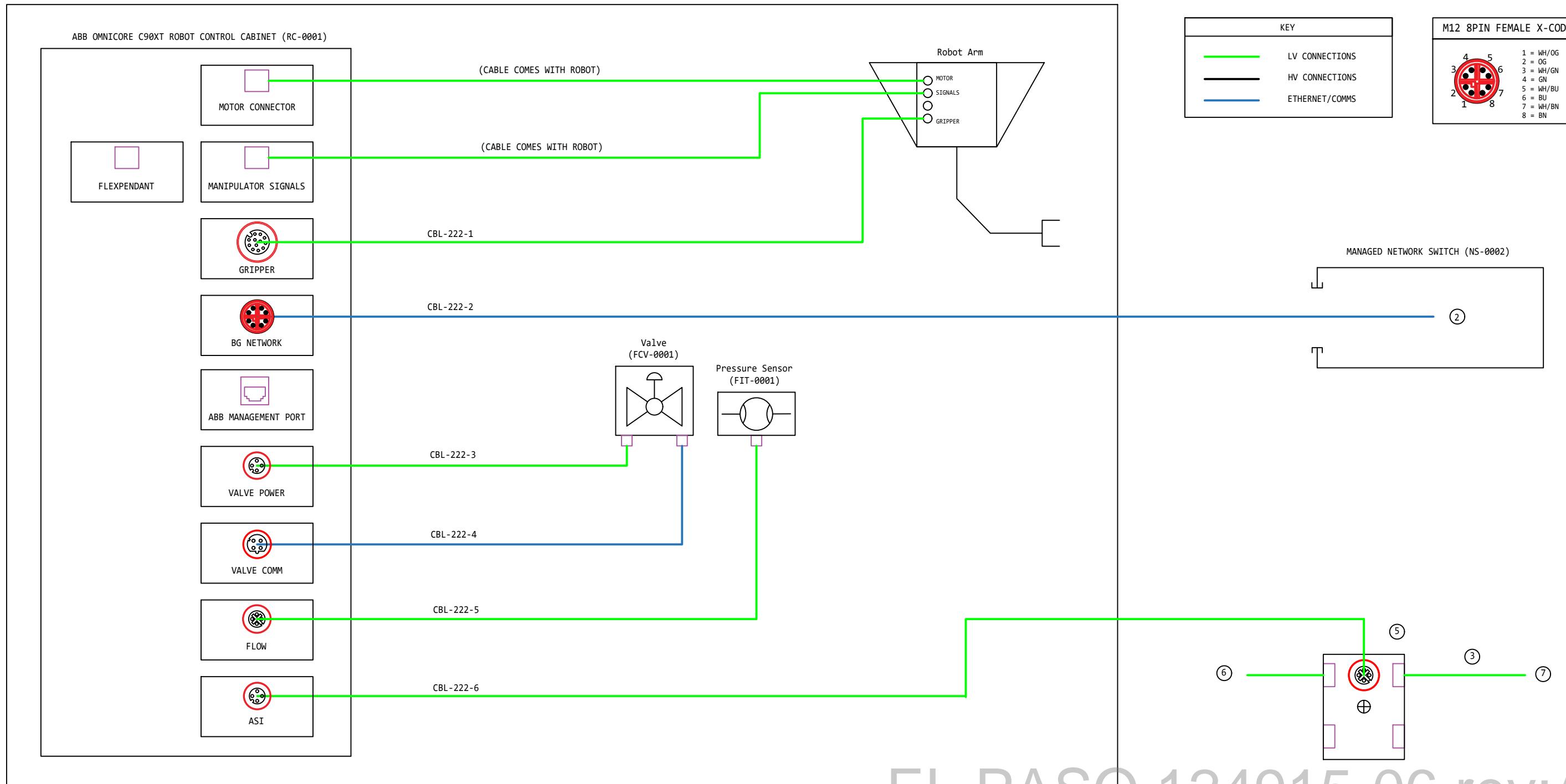
REV	SECT. PREV.	DETAIL	JOB#
A	221		BG 125422-01
	222		RPS-221

**NOTE:**

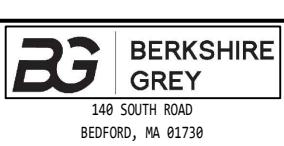
- Refer to the mechanical drawings for detailed locations of all peripherals, components, and sub-systems.
- Refer to the DevOps network document for port assignment details.
- Connection to the ABB Cabinet via the ASI to M12 converter uses yellow ASI cable with 1.5mm<sup>2</sup> cross-section or 16AWG equivalent (16A max rated).
- Cut and insulate all unused wires.
- ASI to M12 converter (BG 105739).
- Yellow ASI cable continues to other devices and sub-systems, if not, then terminate with ASI end-caps (BG 104830).
- Yellow ASI cable continued from the main branch of the Electrical Cabinet.
- Refer to drawing BG 109344 for detailed wiring inside the controller.



RSR-00 WORKCELL



REV	DATE	ENGR.	DESCRIPTION



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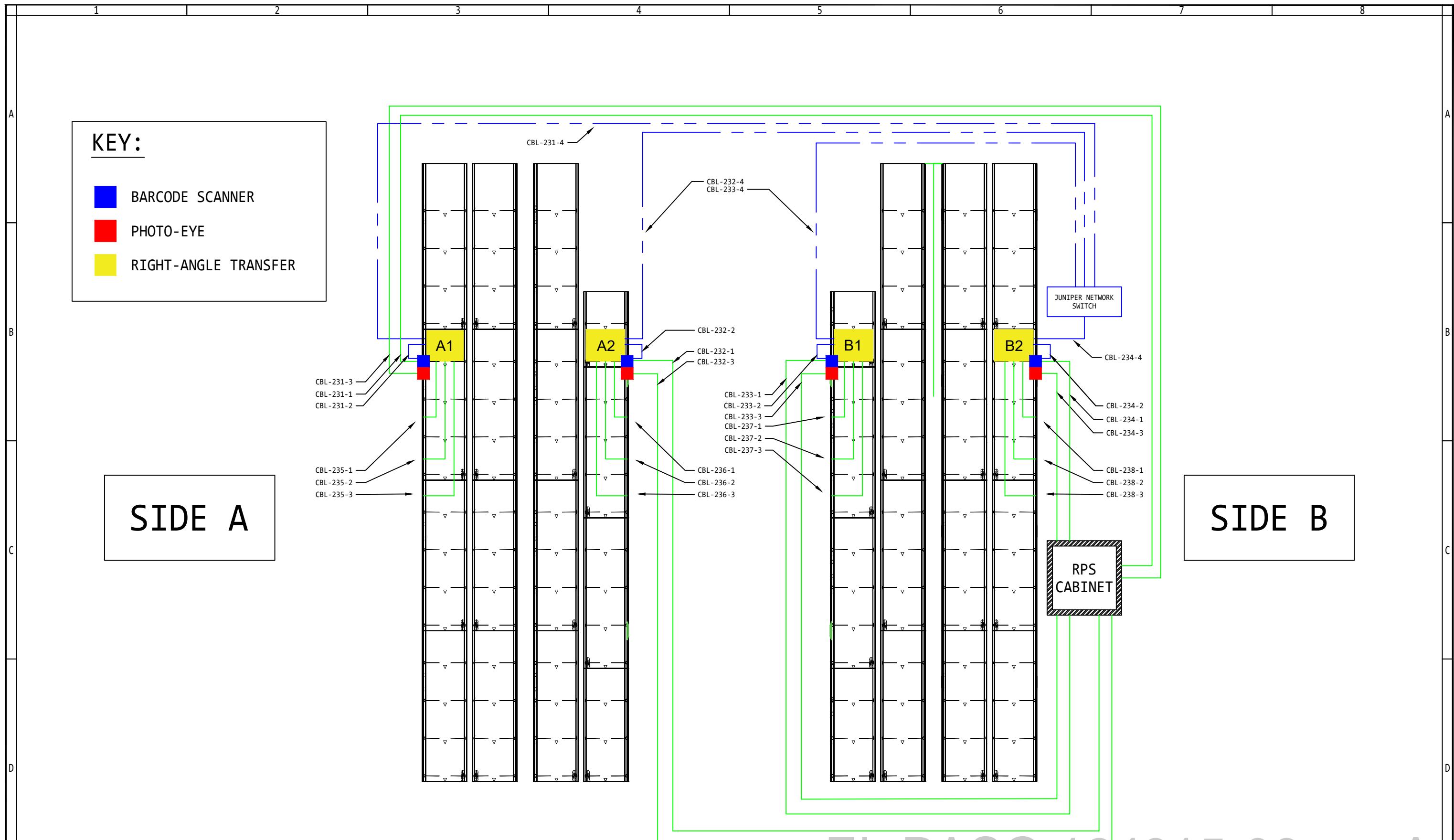
DATE 2025-04-30  
SCALE N/A  
DRAWN RBL  
APPROVED

ROBOT AND PNEUMATIC CONTROL MODULE  
INTERCONNECT DRAWING PACKAGE  
ROBOT & PCM - SIGNAL CONNECTIONS - WIRING

REV	SECT. PREV.	DETAIL	JOB#
	221		BG 125422-01
	222		
A	NEXT	DWG	RPS-222

EL PASO 124915-06 rev:A

1 2 3 4 5 6 7 8



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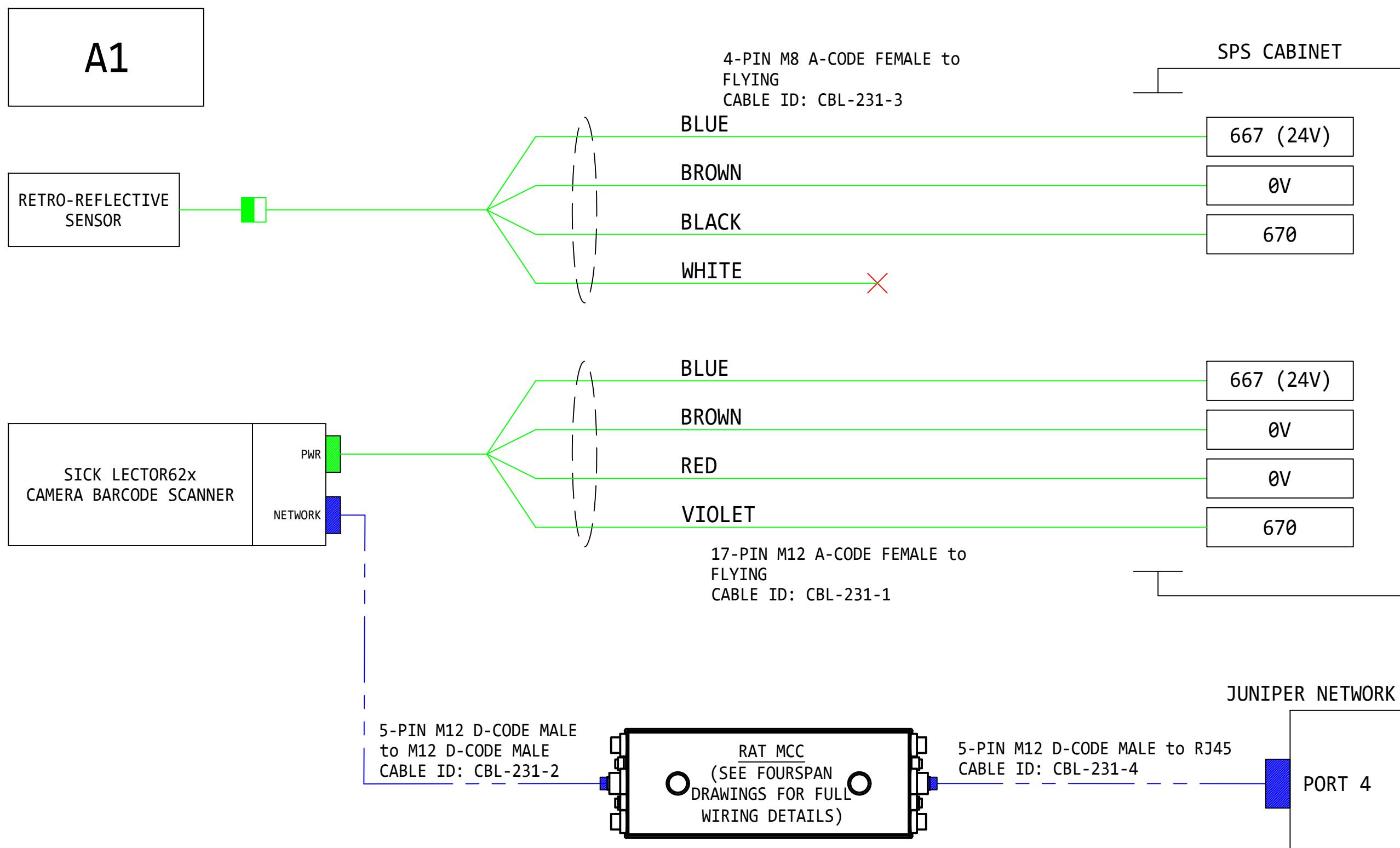


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DATE	2025-04-30
SCALE	N/A
DRAWN	DMK
APPROVED	

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
DESTINATION STAGING OVERVIEW

REV	SECT.	OVERVIEW	JOB#
PREV.			125423-01
SHEET	230		RPS-230
NEXT	231		
DWG			



EL PASO 124915-06 rev:A

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

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DATE 2025-04-30  
SCALE N/A  
DRAWN DMK  
APPROVED

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - A1

REV	SECT.	OVERVIEW	JOB#
PREV.	230	125423-01	
SHEET	231		
NEXT	232		
DWG	RPS-231		

A2

RETRO-REFLECTIVE  
SENSOR

SICK LECTOR62x  
CAMERA BARCODE SCANNER

4-PIN M8 A-CODE FEMALE to  
FLYING  
CABLE ID: CBL-232-3

SPS CABINET

667 (24V)

0V

671

BLUE

BROWN

BLACK

WHITE



BLUE

BROWN

RED

VIOLET

667 (24V)

0V

0V

671

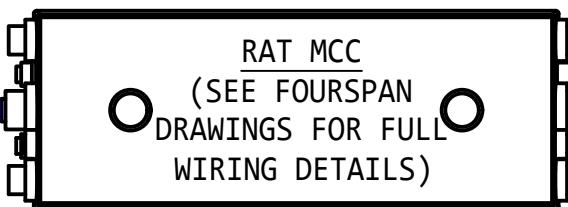
17-PIN M12 A-CODE FEMALE to  
FLYING  
CABLE ID: CBL-232-1

JUNIPER NETWORK SWITCH

PORT 6

5-PIN M12 D-CODE MALE  
to M12 D-CODE MALE  
CABLE ID: CBL-232-2

5-PIN M12 D-CODE MALE to RJ45  
CABLE ID: CBL-232-4



EL PASO 124915-06 rev:A

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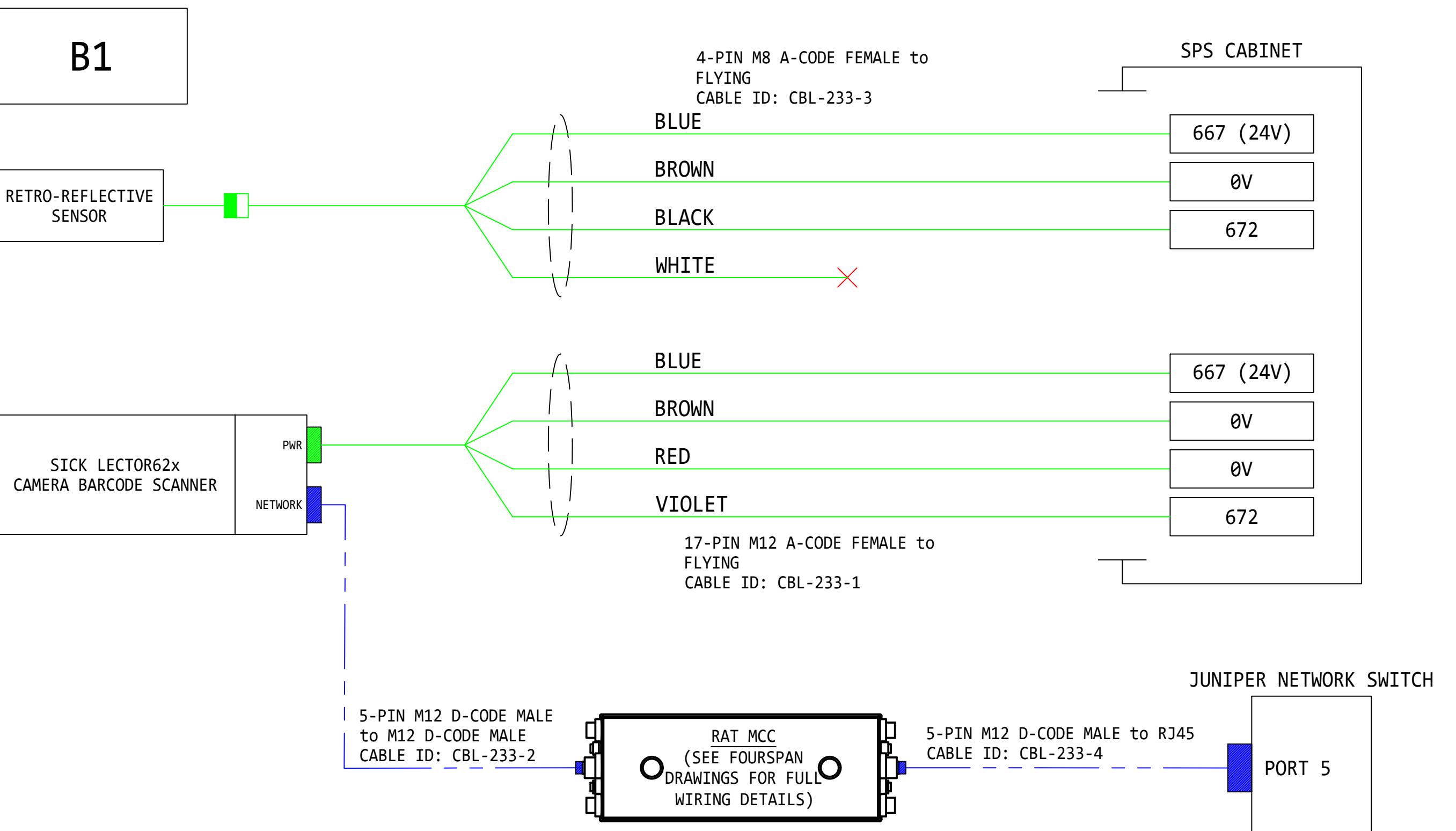


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DATE 2025-04-30  
SCALE N/A  
DRAWN DMK  
APPROVED

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - A2

REV	SECT.	OVERVIEW	JOB#
PREV.	231		125423-01
SHEET	232		
NEXT	233	DWG	RPS-232



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REV	DATE	ENGR.	DESCRIPTION

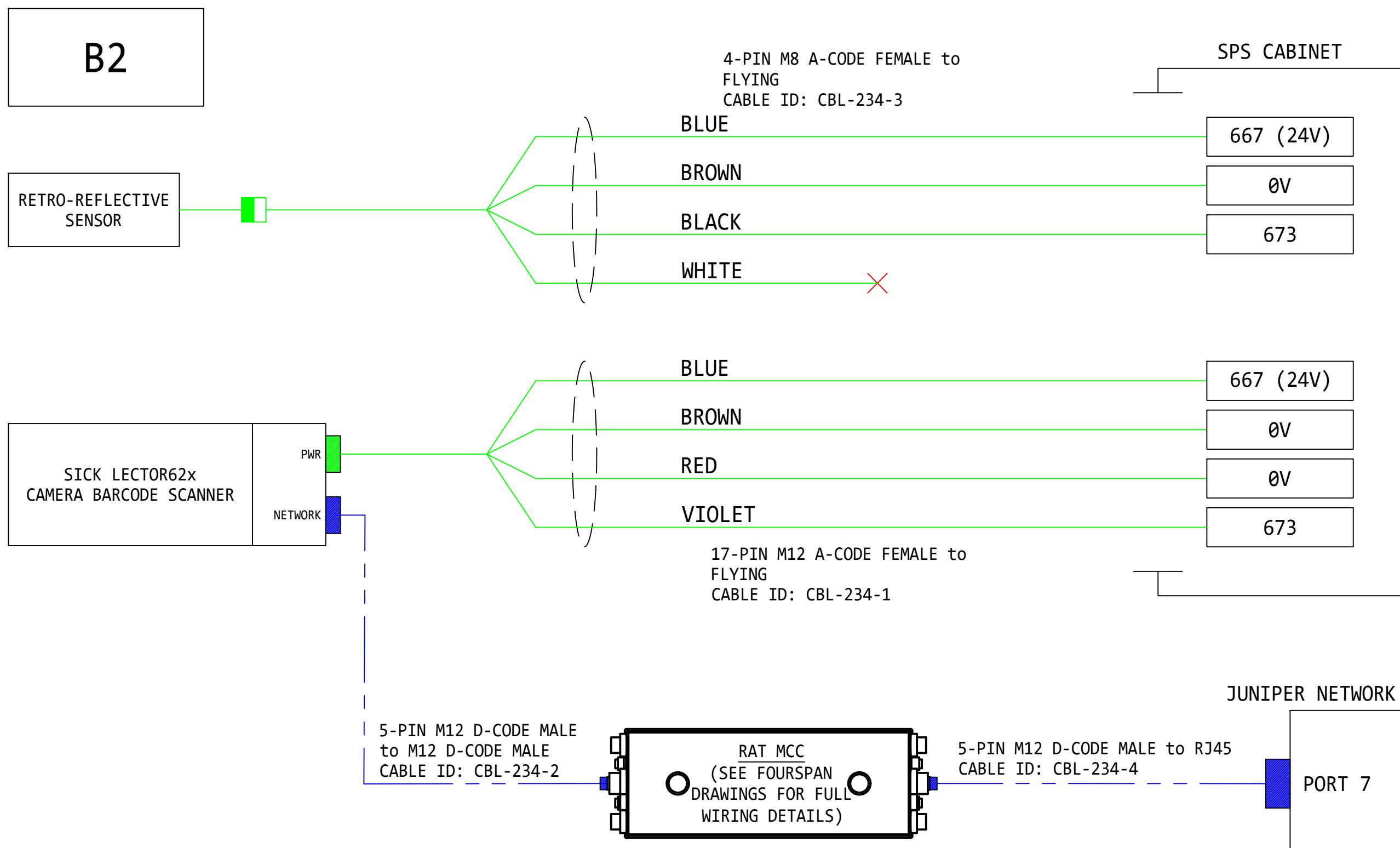


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DATE 2025-04-30  
SCALE N/A  
DRAWN DMK  
APPROVED

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - B1

REV	SECT.	OVERVIEW	JOB#
PREV.	232	125423-01	
SHEET	233		
NEXT	234		DWG RPS-233



EL PASO 124915-06 rev:A

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

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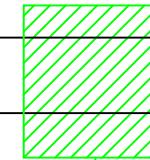
DATE 2025-04-30  
SCALE N/A  
DRAWN DMK  
APPROVED

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - B2

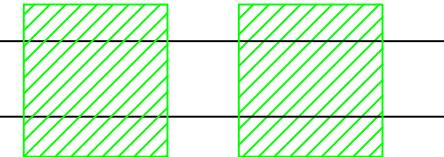
REV	SECT.	OVERVIEW	JOB#
PREV.	233		125423-01
SHEET	234		
NEXT	235		
DWG	RPS-234		

A1

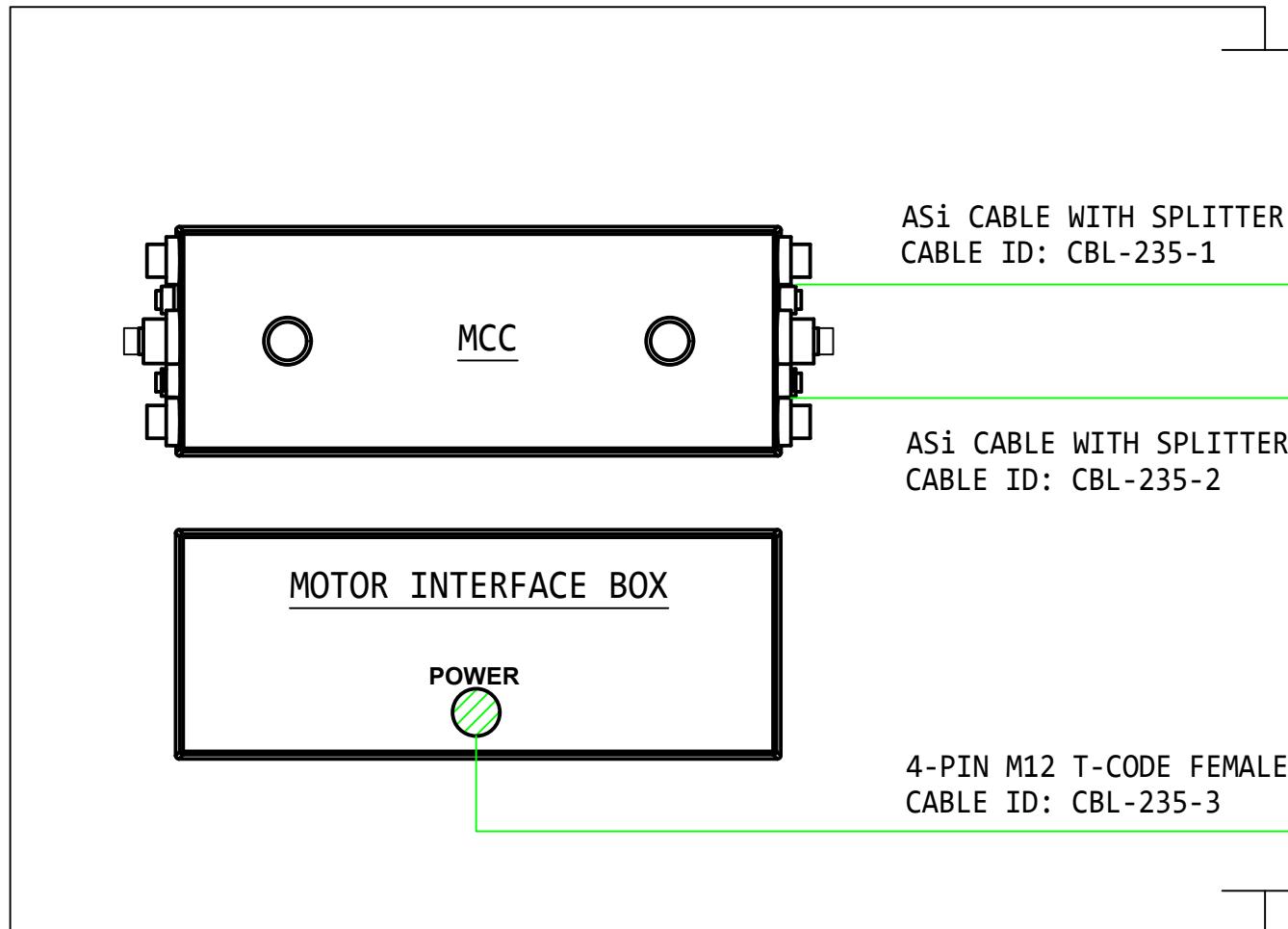
UNINTERRUPTED 24V (VIA RED ASI CABLE FROM FOURSPAN)



INTERRUPTED 24V (VIA BLACK ASI CABLE FROM FOURSPAN)



RAT ENCLOSURE



**NOTE:** CBL-235-1 AND  
CBL-235-2 COME  
PRE-INSTALLED AS A  
LENGTH OF ASI CABLE  
CLAMPED TO THE BACK OF  
THE RAT MCC WITH AN ASI  
SPLITTER ON THE FAR END.  
CLAMP BOTH CABLES TO  
EXISTING FOURSPAN  
CABLED SHOWN ABOVE.

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140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE	2025-04-30
SCALE	N/A
DRAWN	DMK
APPROVED	

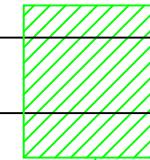
DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
RAT INTERFACE WIRING - A1

REV	SECT.	OVERVIEW	JOB#
PREV.	234		125423-01
SHEET	235		RPS-235

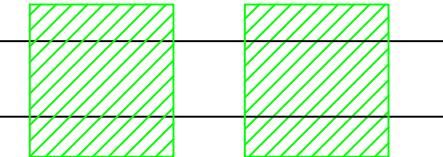
EL PASO 124915-06 rev:A

A2

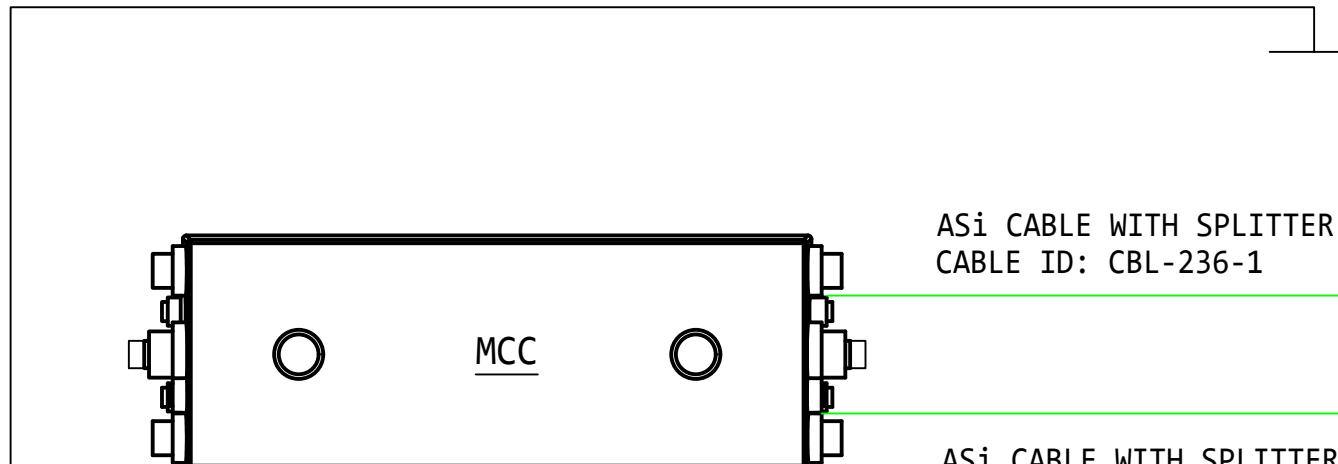
UNINTERRUPTED 24V (VIA RED ASI CABLE FROM FOURSPAN)



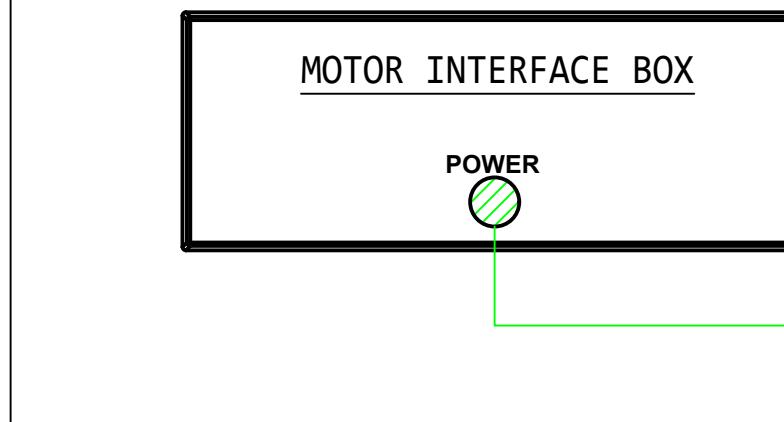
INTERRUPTED 24V (VIA BLACK ASI CABLE FROM FOURSPAN)



RAT ENCLOSURE



**NOTE:** CBL-236-1 AND  
CBL-236-2 COME  
PRE-INSTALLED AS A  
LENGTH OF ASI CABLE  
CLAMPED TO THE BACK OF  
THE RAT MCC WITH AN ASI  
SPLITTER ON THE FAR END.  
CLAMP BOTH CABLES TO  
EXISTING FOURSPAN  
CABLED SHOWN ABOVE.



4-PIN M12 T-CODE FEMALE to ASI CLAMP  
CABLE ID: CBL-236-3

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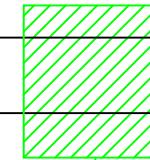
DATE	2025-04-30
SCALE	N/A
DRAWN	DMK
APPROVED	

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
RAT INTERFACE WIRING - A2

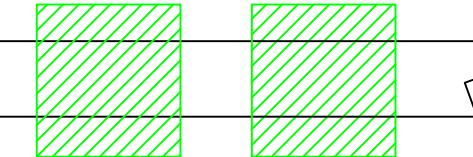
REV	SECT.	OVERVIEW	JOB#
PREV.	235		125423-01
SHEET	236		
NEXT	237	DWG	RPS-236

B1

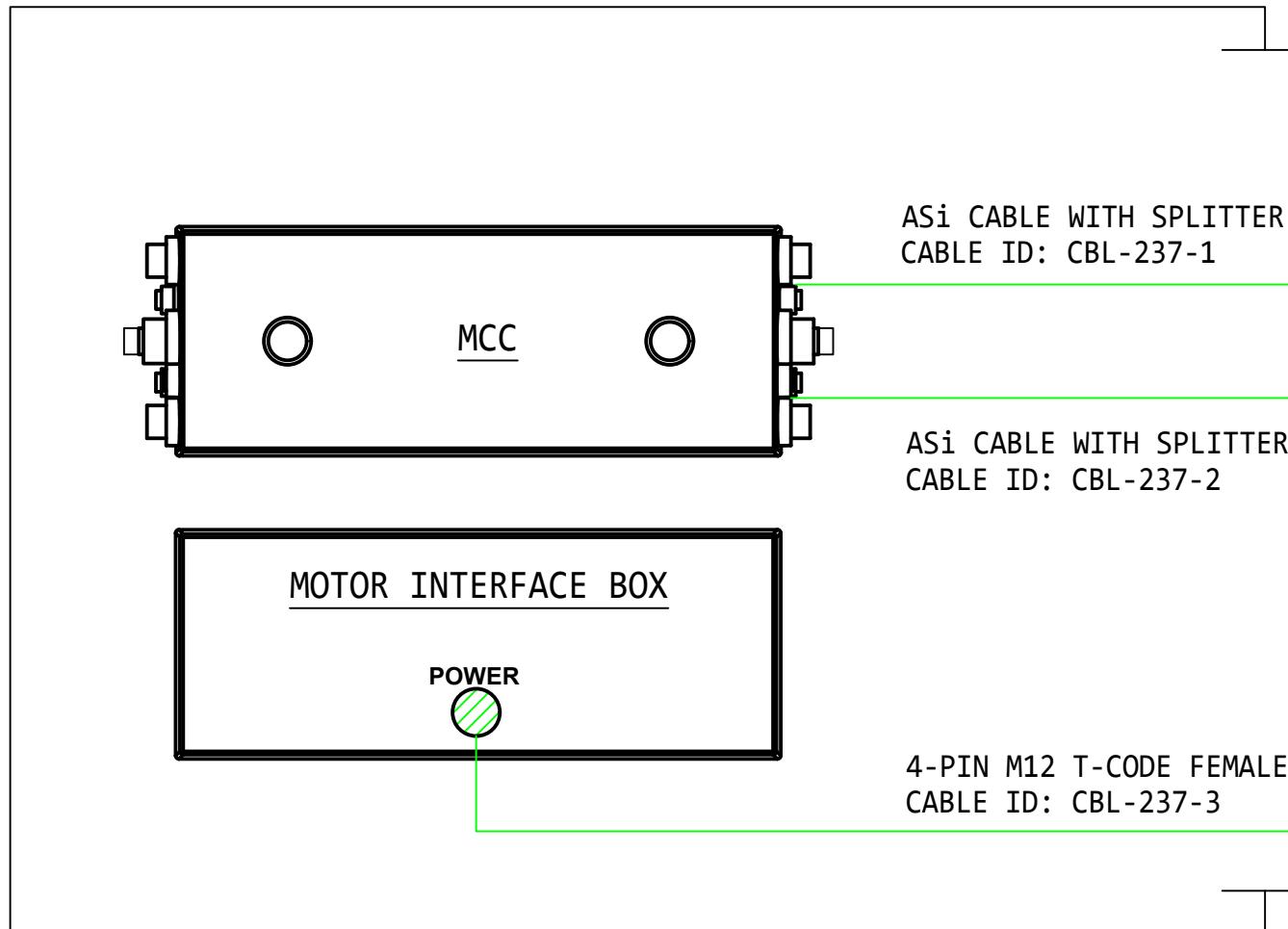
UNINTERRUPTED 24V (VIA RED ASI CABLE FROM FOURSPAN)



INTERRUPTED 24V (VIA BLACK ASI CABLE FROM FOURSPAN)



RAT ENCLOSURE



**NOTE:** CBL-237-1 AND  
CBL-237-2 COME  
PRE-INSTALLED AS A  
LENGTH OF ASi CABLE  
CLAMPED TO THE BACK OF  
THE RAT MCC WITH AN ASi  
SPLITTER ON THE FAR END.  
CLAMP BOTH CABLES TO  
EXISTING FOURSPAN  
CABLED SHOWN ABOVE.

4-PIN M12 T-CODE FEMALE to ASi CLAMP  
CABLE ID: CBL-237-3

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REV DATE ENGR. DESCRIPTION



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BEDFORD, MA 01730

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DATE	2025-04-30
SCALE	N/A
DRAWN	DMK
APPROVED	

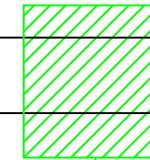
DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
RAT INTERFACE WIRING - B1

REV	SECT.	OVERVIEW	JOB#
PREV.	236		125423-01
SHEET	237		RPS-237
NEXT	238		
DWG			

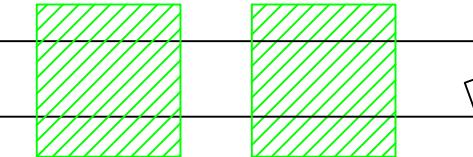
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B2

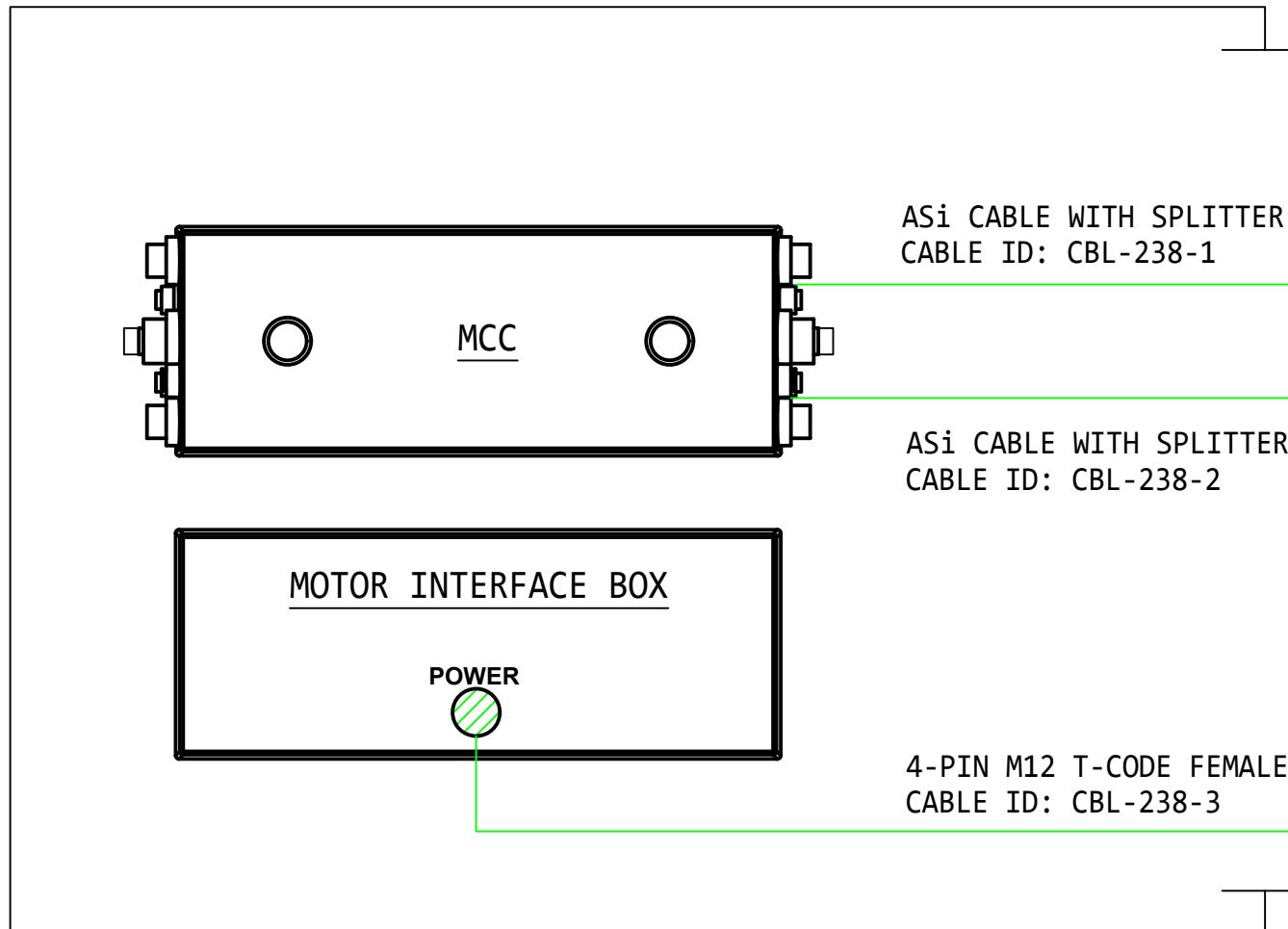
UNINTERRUPTED 24V (VIA RED ASI CABLE FROM FOURSPAN)



INTERRUPTED 24V (VIA BLACK ASI CABLE FROM FOURSPAN)



RAT ENCLOSURE



**NOTE:** CBL-238-1 AND  
CBL-238-2 COME  
PRE-INSTALLED AS A  
LENGTH OF ASi CABLE  
CLAMPED TO THE BACK OF  
THE RAT MCC WITH AN ASi  
SPLITTER ON THE FAR END.  
CLAMP BOTH CABLES TO  
EXISTING FOURSPAN  
CABLED SHOWN ABOVE.

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REV DATE ENGR. DESCRIPTION



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DATE 2025-04-30  
SCALE N/A  
DRAWN DMK  
APPROVED

DESTINATION STAGING MODULE  
INTERCONNECT DRAWING PACKAGE  
RAT INTERFACE WIRING - B2

REV SECT. OVERVIEW JOB#  
PREV. 237 125423-01  
SHEET 238  
NEXT ---- DWG RPS-238

EL PASO 124915-06 rev:A