HF CONTROLS

100 ALBERT DRIVE
GLASGOW G41 2SJ
TEL: +44 141 429 2277
EMAIL: hfcontrols.co.uk

PROJECT: RSGT
PROJECT LOCATION: LIVERPOOL
PROJECT REFERENCE NUMBER: 291926

CLIENT: PEEL PORTS
CLIENT ADDRESS: MARITIME CENTRE PORT OF LIVERPOOL
CLIENT ORDER NUMBER: ????

CONTROL SYSTEM DETAILS & SPECIFICATION

SYSTEM TYPE:	SAFE AREA
ENCLOSURE MATERIAL:	MILD STEEL
RATED VOLTAGE:	400V AC
RATED FREQUENCY:	50 Hz
RATED AMPERE:	???A
CONTROL VOLTAGE:	24V DC
DEGREE OF PROTECTION:	IP 55
PAINT FINISH:	POWDER COATED RAL7035
YEAR OF MANUFACTURE:	2022

DRAWING STATUS

FIRST DRAFT ☒
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REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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DRG. No.: 284595 / 1001 / 01

CURRENT CIRCUIT	CONDUCTOR	WIRING COLOUR	MINIMUM CROSS-SECTION
3-PHASE POWER	L1	BROWN	2.5mm2
3-PHASE POWER	L2	BLACK	2.5mm2
3-PHASE POWER	L3	GREY	2.5mm2
3-PHASE NEUTRAL	N	LIGHT BLUE	2.5mm2
1-PHASE POWER	L1	BROWN	1.5mm2
1-PHASE POWER	N	LIGHT BLUE	1.5mm2
24VDC	+	DARK BLUE	0.75mm2
24VDC	-	DARK BLUE	0.75mm2
MEASURING	+/-	GREY	0.5mm2
EXTERNAL VOLTAGE		ORANGE	1.5mm2
PROTECTIVE EARTH CONDUCTOR	PE	GREEN/YELLOW	1.5mm2

MEASURING LINES:

- [x] SINGLE CONDUCTOR
- [ ] TWISTED PAIRS
- [x] ANALOGUE SIGNAL IN SHIELDED PAIRS

TYPE OF CONNECTION:

- [x] WIRE END BOOTLACE CRIMP
- [ ] WIRE END PIN CRIMP
- [ ] FORK TYPE CRIMP
- [ ] ISOLATED
- [ ] NO CRIMP

WIRE MARKING:

- [ ] NONE
- [ ] WIRE DESIGNATION, SEMI OPEN
- [ ] WIRE TARGET DESTINATION
- [x] CURRENT PATH DESIGNATION

SPECIFICS:

- [ ] HALOGEN FREE
- [x] IP20 FOR INFEED TERMINALS
- [x] BUS-BAR PE

CONSTRUCTION NOTES:

1. TERMINALS:
   POWER WDU4
   INSTRUMENT WDU2.5

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

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DATE 12/02/25

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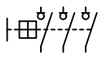
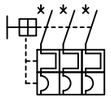
DRG. No.: 284595 / 1001 / 02

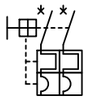
CODE OF ELECTRICAL SYMBOLS



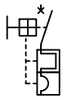
Q = MAIN ISOLATING SWITCH



QFM = ISOLATING CIRCUIT BREAKER (3 POLE)



QFM = ISOLATING CIRCUIT BREAKER (2 POLE)



QFM = ISOLATING CIRCUIT BREAKER (1 POLE)

CONTACT (POWER) NORMALLY OPENED

CONTACT-THERMOSTAT NORMALLY CLOSED

FU = OVERLOAD PROTECTIVE DEVICE (3 POLE)

SF = SELECTOR SWITCH 2 POSITION / STAY PUT

SF = PUSH BUTTON / SPRING RETURN NORMALLY OPEN

SF = PUSH BUTTON / SPRING RETURN NORMALLY CLOSED

Kx = CONTROL COIL

PLC INPUT

PLC OUTPUT

INDICATION LED

HEATER

RESISTOR

PSU = AC TO DC POWER CONVERSION

DRAWING STATUS						
FIRST DRAFT ☒	REV	DATE	DETAIL	CLIENT	PEEL PORT	ENGRD. M.WRIGHT
FOR MANUFACTURE ☐	00	05/07/22	FIRST ISSUE			DRAWN. M.WRIGHT
SIGNED..... DATED.....	01	12/02/25	MC2 DUST PLANT FAN ADDED			
	02			INSTALL	RSGT LIVERPOOL	CHECK B.DUFFY
	03					
	04					DATE 12/02/25
HF CONTROLS LTD.	05			TITLE	MCC2A WIRING SCHEMATICS	DRG. No.: 284595 / 1001 / 03
	06					
	07					

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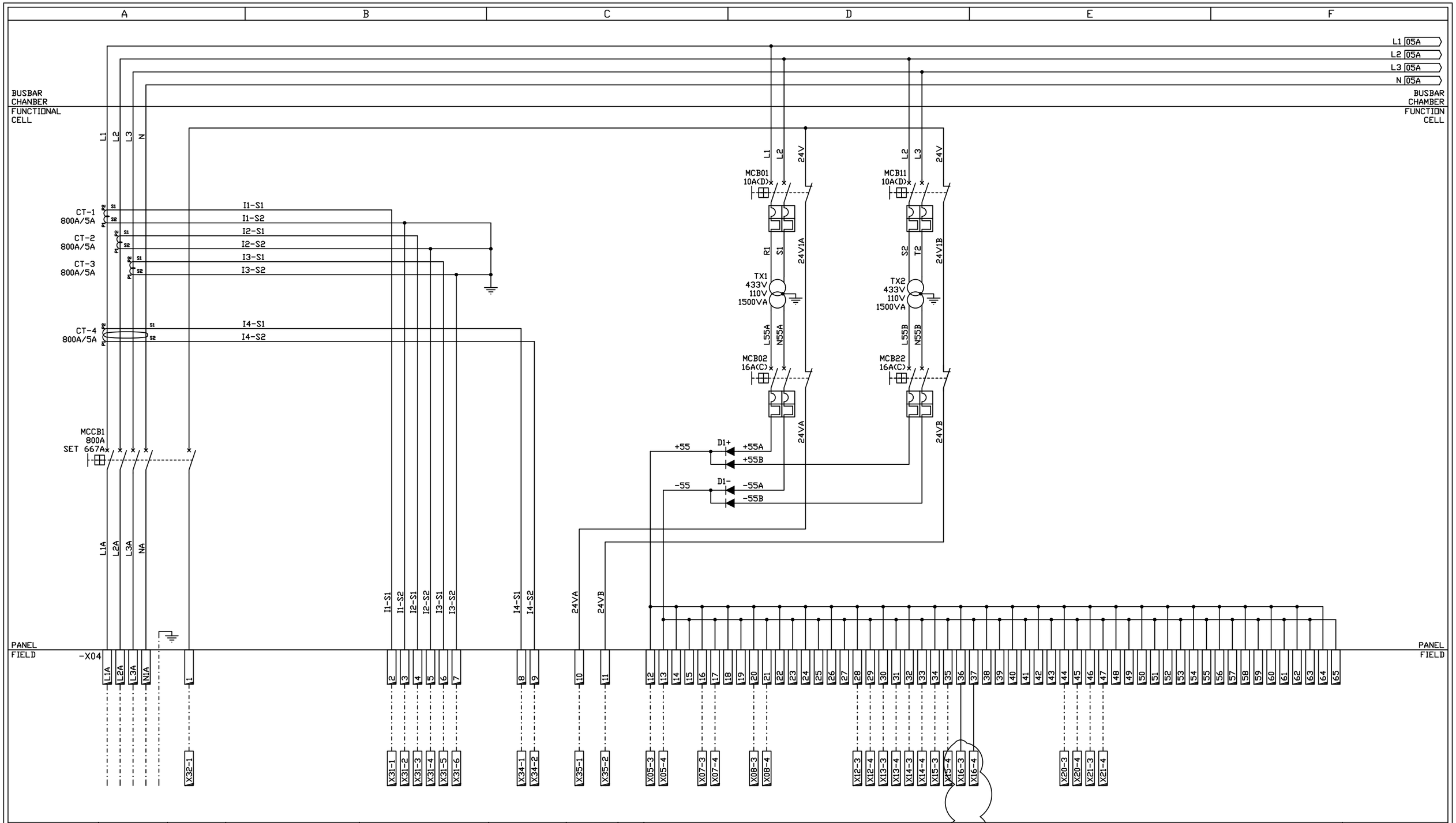

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CELL A1
MAIN INCOMER

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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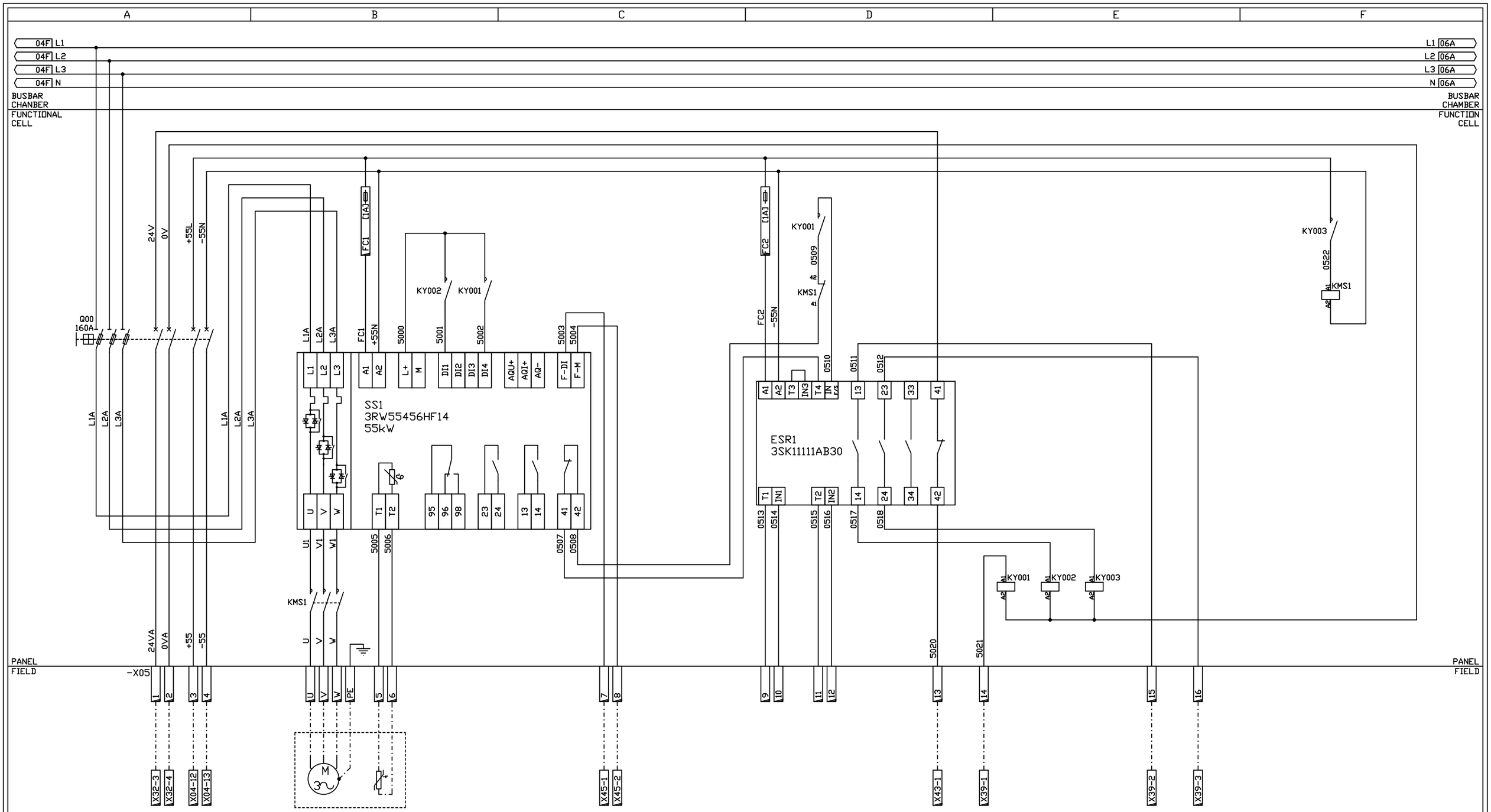

MAIN SUPPLY ISOLATOR			CONVEYOR MC1		CONVEYOR MC1 EMERGENCE STOP CONTROL						CONVEYOR MC1 COMMANDS		
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR 55KW FLC=xxxA	MOTOR THERMISTOR	FAIL SAFE ENABLE		ESTOP CHANNEL 1	ESTOP CHANNEL 2		ESTOP FEEDBACK TO PLC	RESET	START MOTOR	SAFETY CONTACTOR	SAFETY CONTACTOR START COMMAND

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CELL A2
MILL FEED CONVEYOR MC1

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00	05/07/22	FIRST ISSUE
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07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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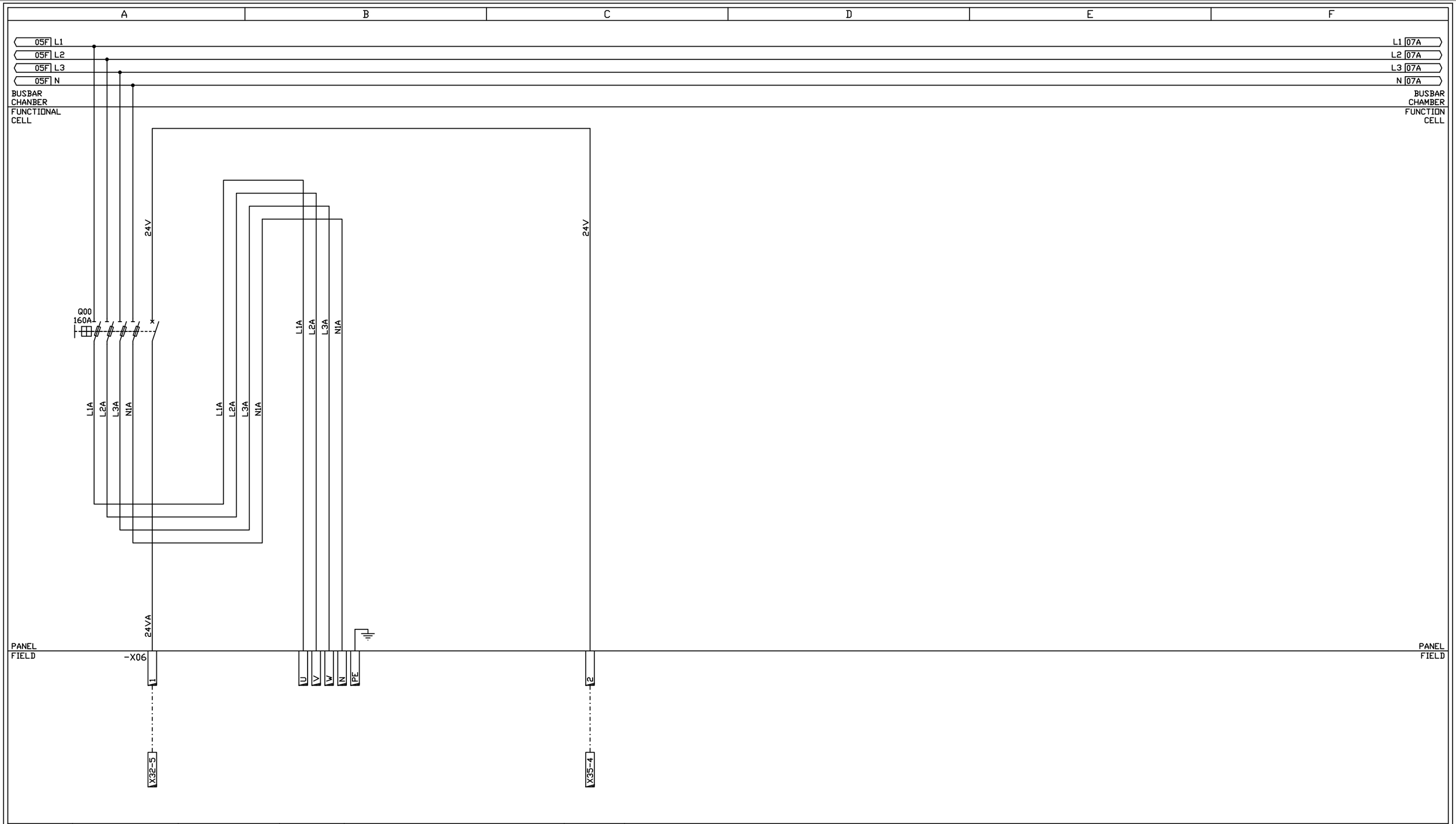

MAIN SUPPLY ISOLATOR					
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2		LORRY LOADING SCALE ROOM FEEDER		ISOLATOR STATUS FEEDBACK

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CELL A3
LORRY LOADING SCALE ROOM FEEDER

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00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

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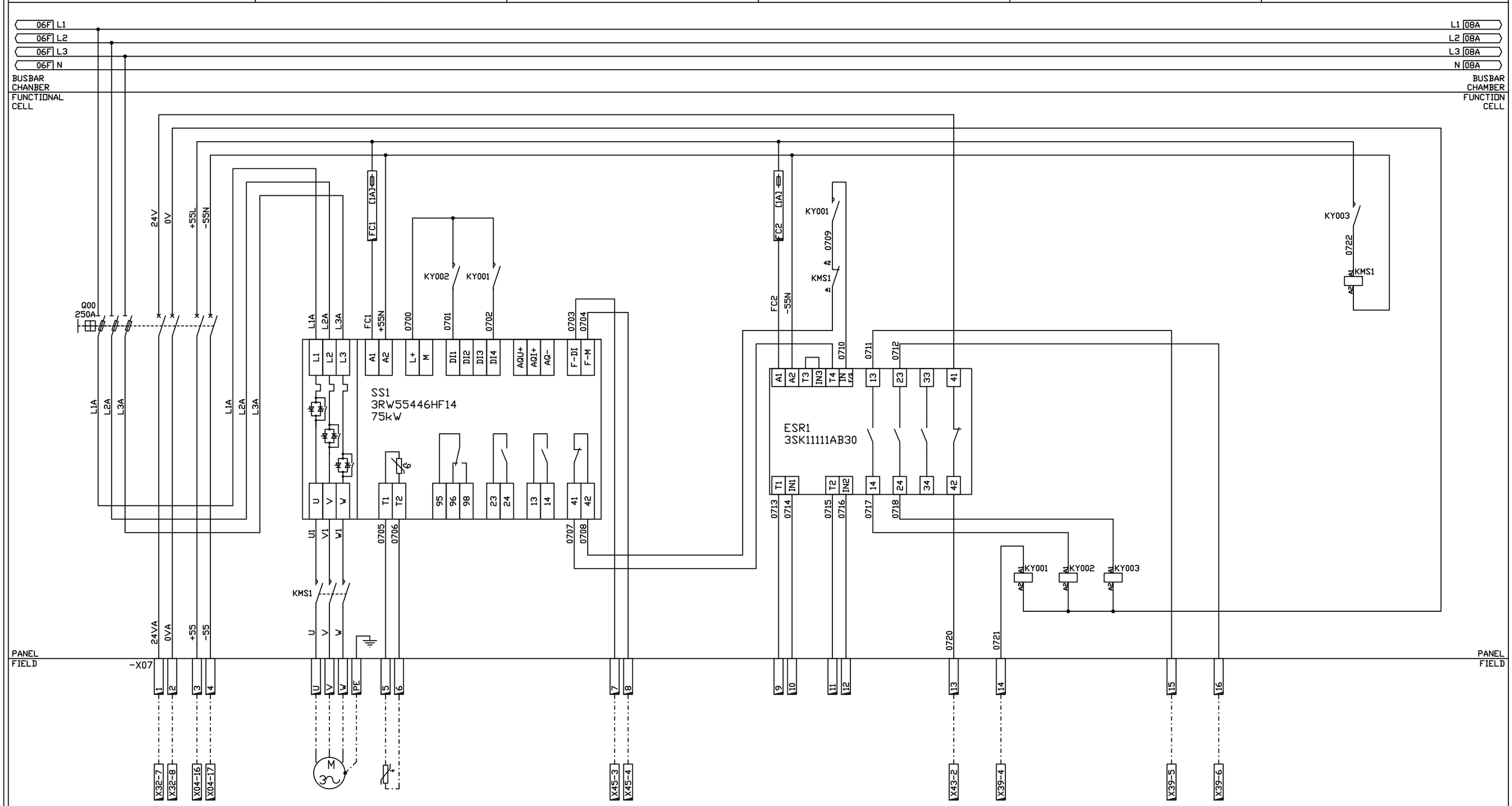

MAIN SUPPLY ISOLATOR			CONVEYOR BB1		CONVEYOR BB1 EMERGENCE STOP CONTROL						CONVEYOR BB1 COMMANDS		
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR 75KW FLC=xxxA	MOTOR THERMISTOR	FAIL SAFE ENABLE		ESTOP CHANNEL 1	ESTOP CHANNEL 2		ESTOP FEEDBACK TO PLC	RESET	START MOTOR	SAFETY CONTACTOR	SAFETY CONTACTOR START COMMAND

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CELL B1
BASEMENT BELT CONVEYOR BB1

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
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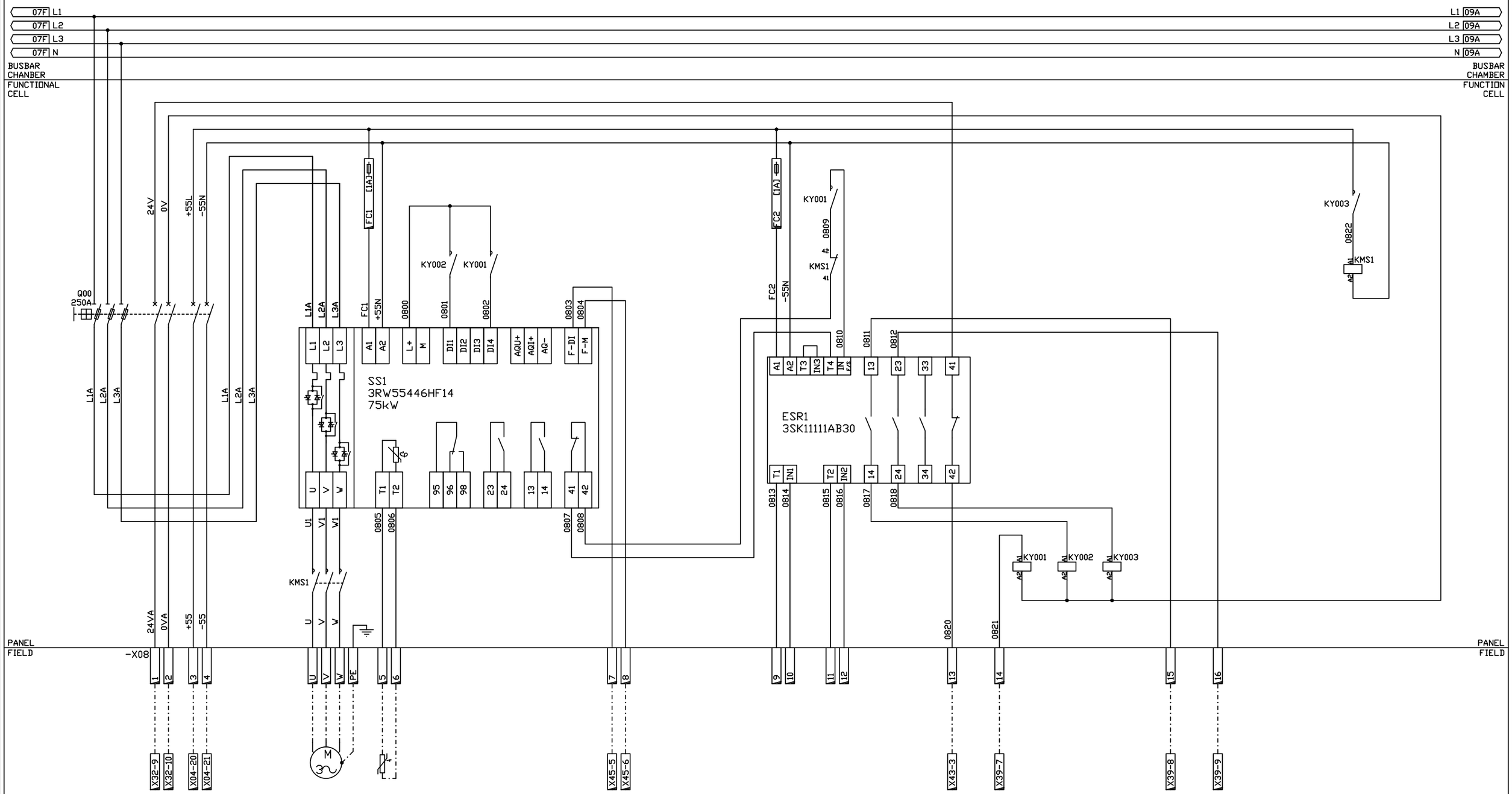

MAIN SUPPLY ISOLATOR			CONVEYOR BB2		CONVEYOR BB2 EMERGENCY STOP CONTROL						CONVEYOR MC3 COMMANDS		
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR 75KW FLC=xxxA	MOTOR THERMISTOR	FAIL SAFE ENABLE		ESTOP CHANNEL 1	ESTOP CHANNEL 2		ESTOP FEEDBACK TO PLC	RESET	START MOTOR	SAFETY CONTACTOR	SAFETY CONTACTOR START COMMAND

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CELL C1
BASEMENT BELT CONVEYOR BB2

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

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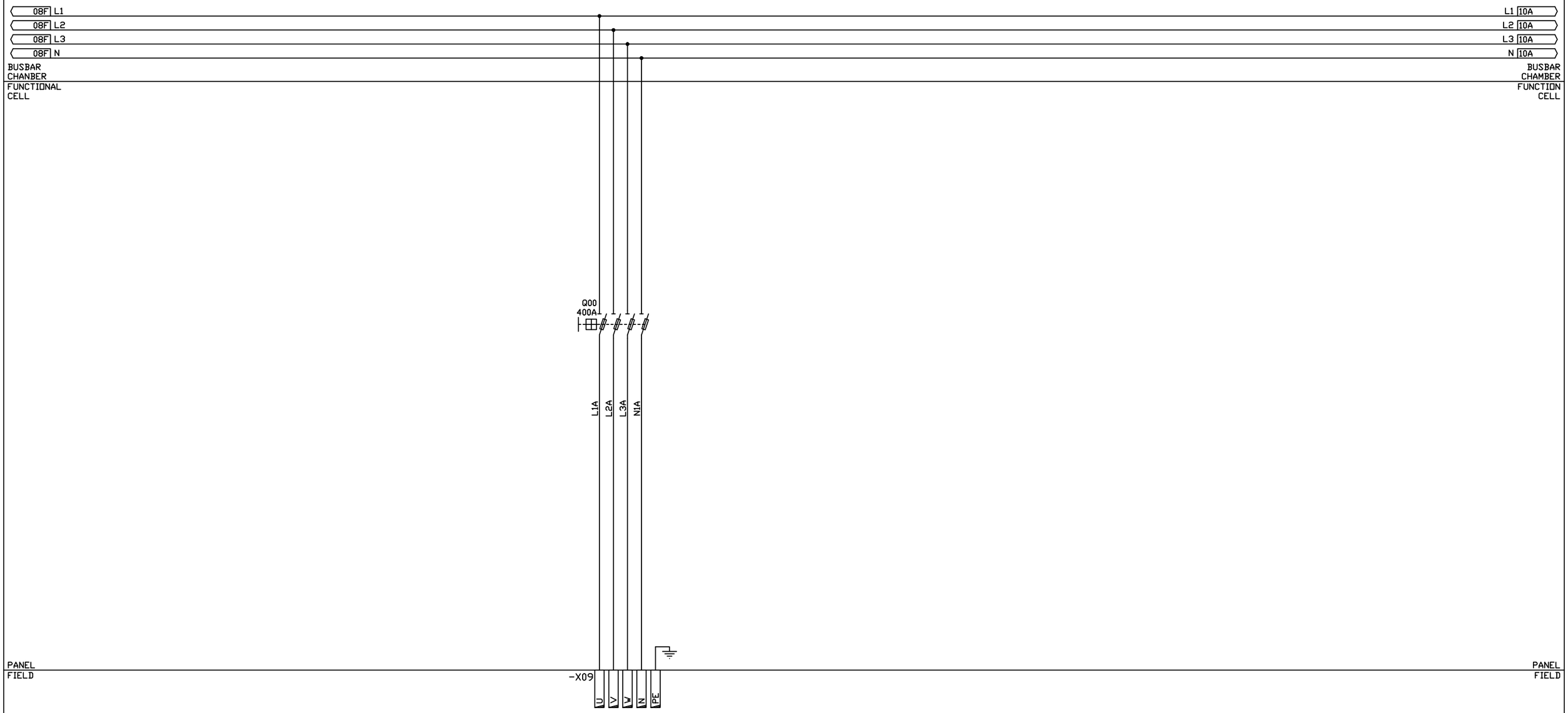

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CELL C2
FEEDER TO EXISTING MCC2A

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
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02		
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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DRG. No.: 284595 / 1001 / 09

A	B	C	D	E	F

09F L1 — L1 11A
09F L2 — L2 11A
09F L3 — L3 11A
09F N — N 11A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL C3
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL C3
SPARE - NO EQUIPMENT

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CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
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DRG. No.: 284595 / 1001 / 10

A	B	C	D	E	F

10F L1 — L1 12A
10F L2 — L2 12A
10F L3 — L3 12A
10F N — N 12A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL C4
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL C4
SPARE - NO EQUIPMENT

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00	05/07/22	FIRST ISSUE
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ENGRD. M.WRIGHT
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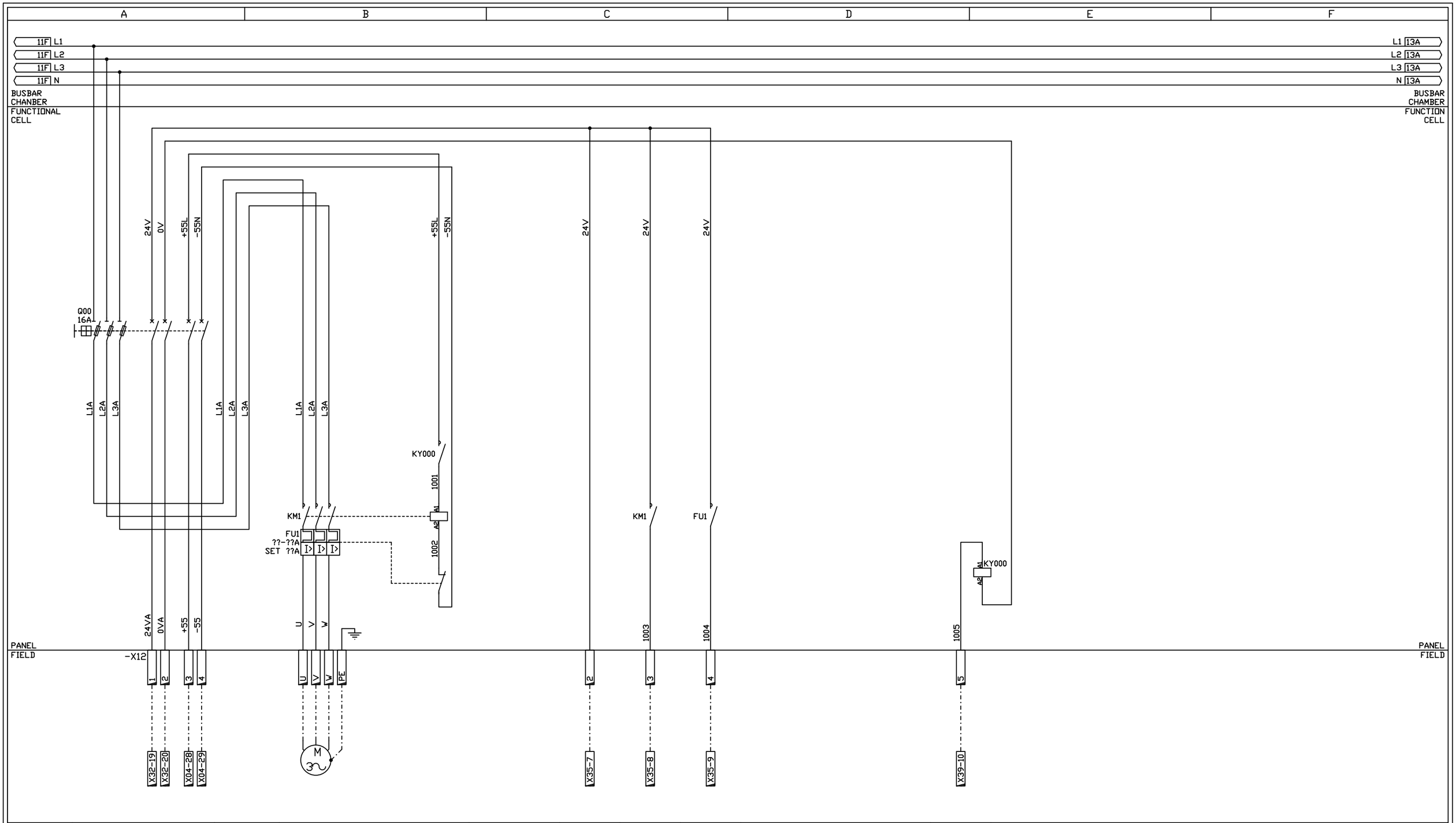

MAIN SUPPLY ISOLATOR			LORRY WEIGHBACK PONY MOTOR							
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR 55KW FLC=xxxA		CONTACTOR RUN COMMAND		ISOLATOR STATUS FEEDBACK	MOTOR RUNNING STATUS FEEDBACK	MOTOR OVERLOAD STATUS FEEDBACK	CONVEYOR RUN RELAY

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CELL D1
LORRY WEIGHBACK PONY MOTOR FEEDER

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

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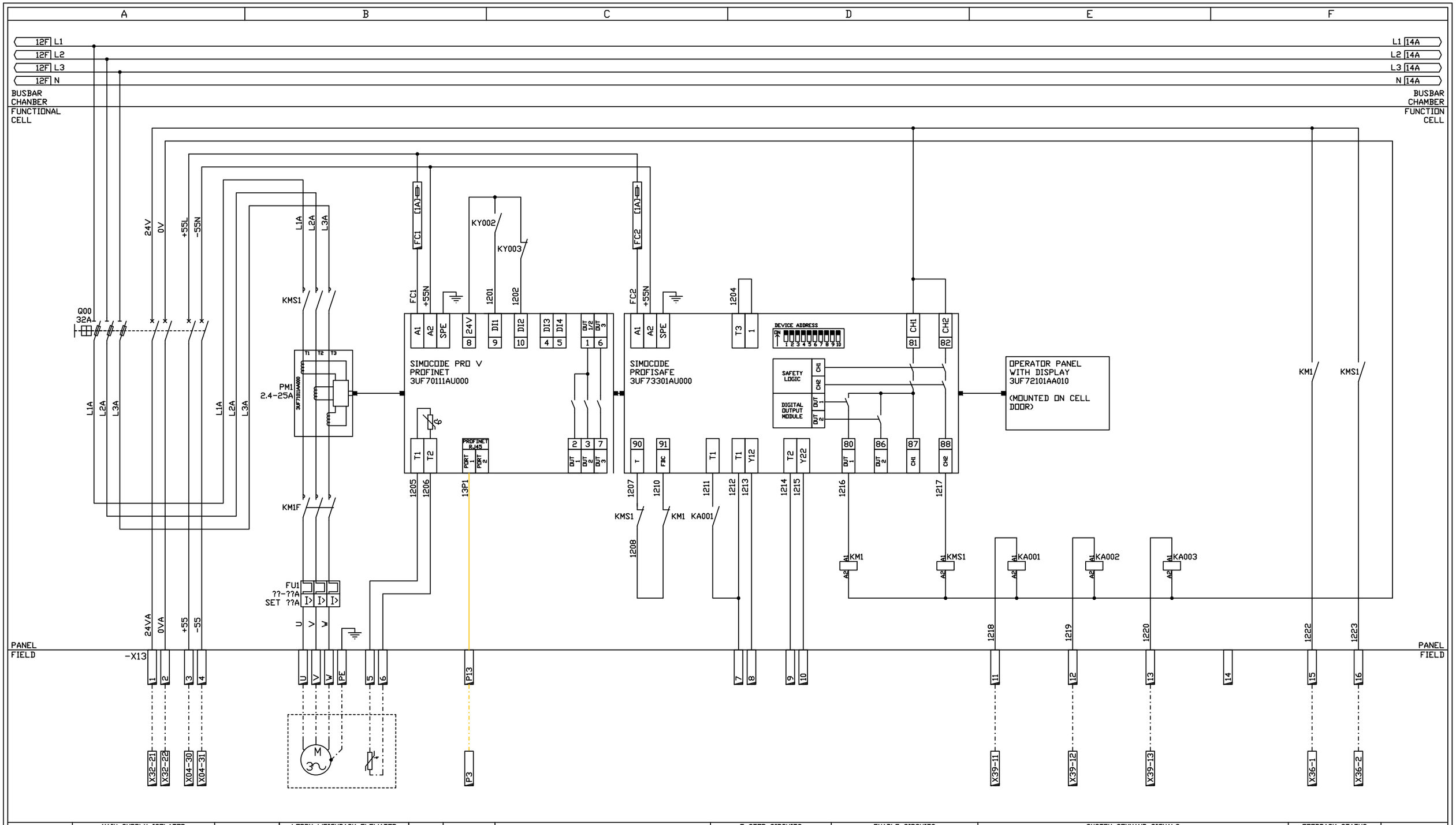

MAIN SUPPLY ISOLATOR			LORRY WEIGHBACK ELEVATOR			E-STOP CIRCUITS		ENABLE CIRCUITS				SYSTEM COMMAND SIGNALS				FEEDBACK STATUS	
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR xxKW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45	EMERGENCY STOP CHANNEL 1	EMERGENCY STOP CHANNEL 2	MOTOR FWD COIL			SAFETY CONTACTOR COIL	SYSTEM RESET RELAY	CONVEYOR FWD COMMAND	CONVEYOR STOP COMMAND		CONVEYOR RUNNING	SAFETY CONTACTOR ENABLED

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CELL D2
LORRY WEIGHBACK ELEVATOR

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
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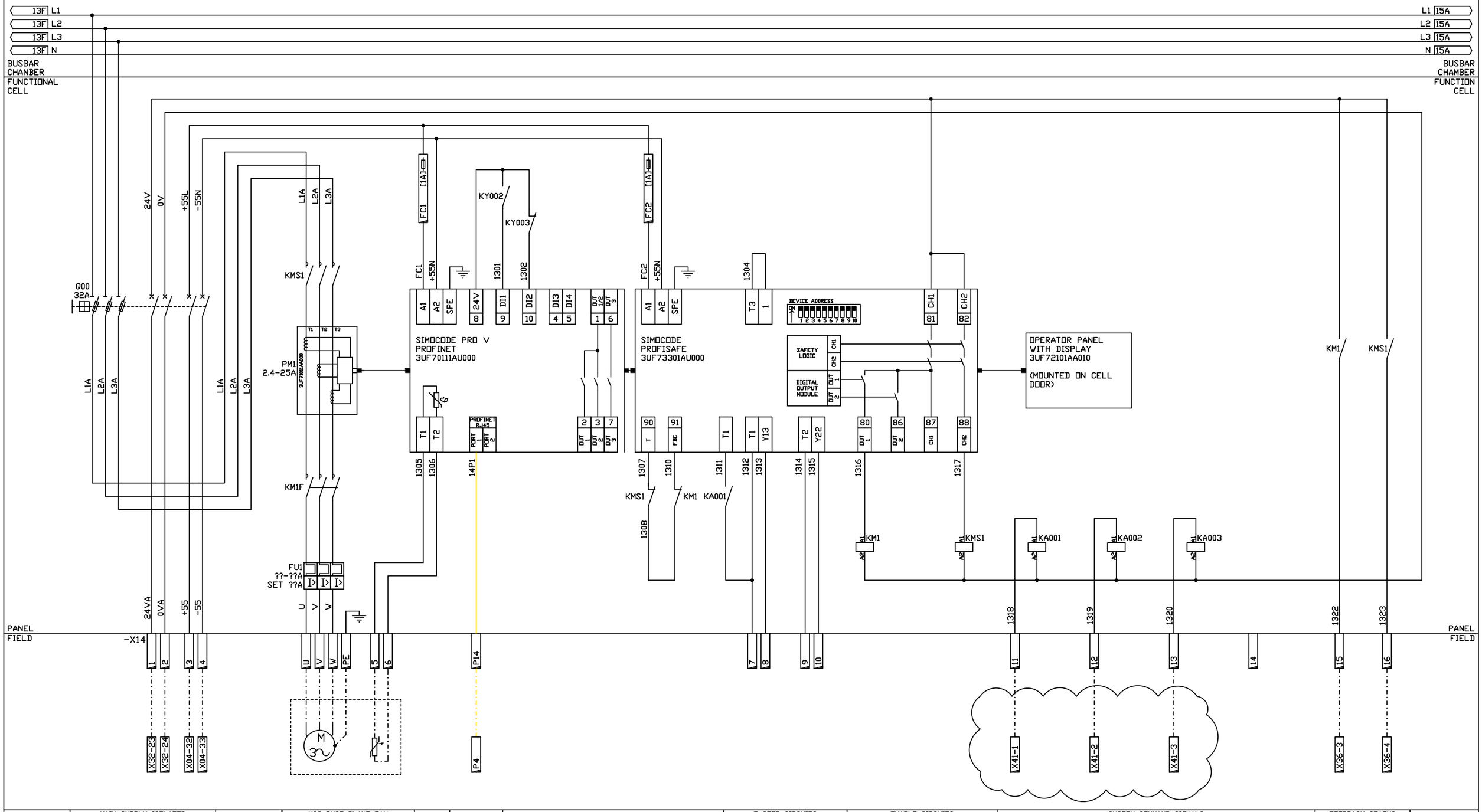

MAIN SUPPLY ISOLATOR			MC2 DUST PLANT FAN			E-STOP CIRCUITS		ENABLE CIRCUITS				SYSTEM COMMAND SIGNALS				FEEDBACK STATUS	
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR xxKW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45	EMERGENCY STOP CHANNEL 1	EMERGENCY STOP CHANNEL 2	MOTOR RUN COIL			SAFETY CONTACTOR COIL	SYSTEM RESET RELAY	FAN RUN COMMAND	FAN STOP COMMAND		FAN RUNNING	SAFETY CONTACTOR ENABLED

DRAWING STATUS

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CELL D3
MC2 DUST PLANT FAN

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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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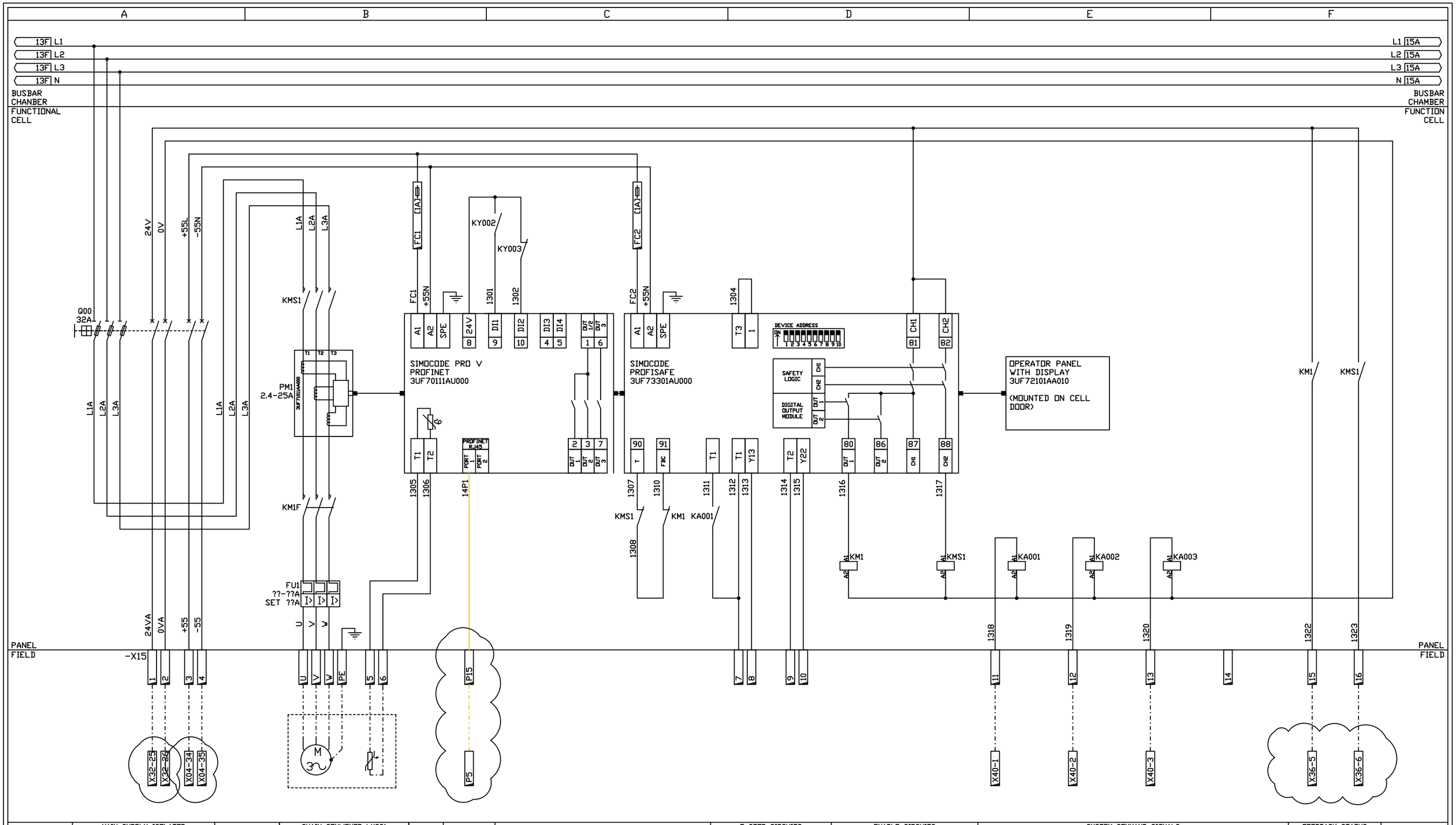
DRG. No.: 284595 / 1001 / 14



MAIN SUPPLY ISOLATOR			CHAIN CONVEYOR LXCC1			E-STOP CIRCUITS		ENABLE CIRCUITS				SYSTEM COMMAND SIGNALS				FEEDBACK STATUS	
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR xxKW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45	EMERGENCY STOP CHANNEL 1	EMERGENCY STOP CHANNEL 2	MOTOR FWD COIL	MOTOR REV COIL		SAFETY CONTACTOR COIL	SYSTEM RESET RELAY	CONVEYOR FWD COMMAND	CONVEYOR STOP COMMAND		CONVEYOR RUNNING	SAFETY CONTACTOR ENABLED

DRAWING STATUS

FIRST DRAFT ☒

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CELL D4
LORRY WEIGHBACK CHAIN CONVEYOR LWCC1

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

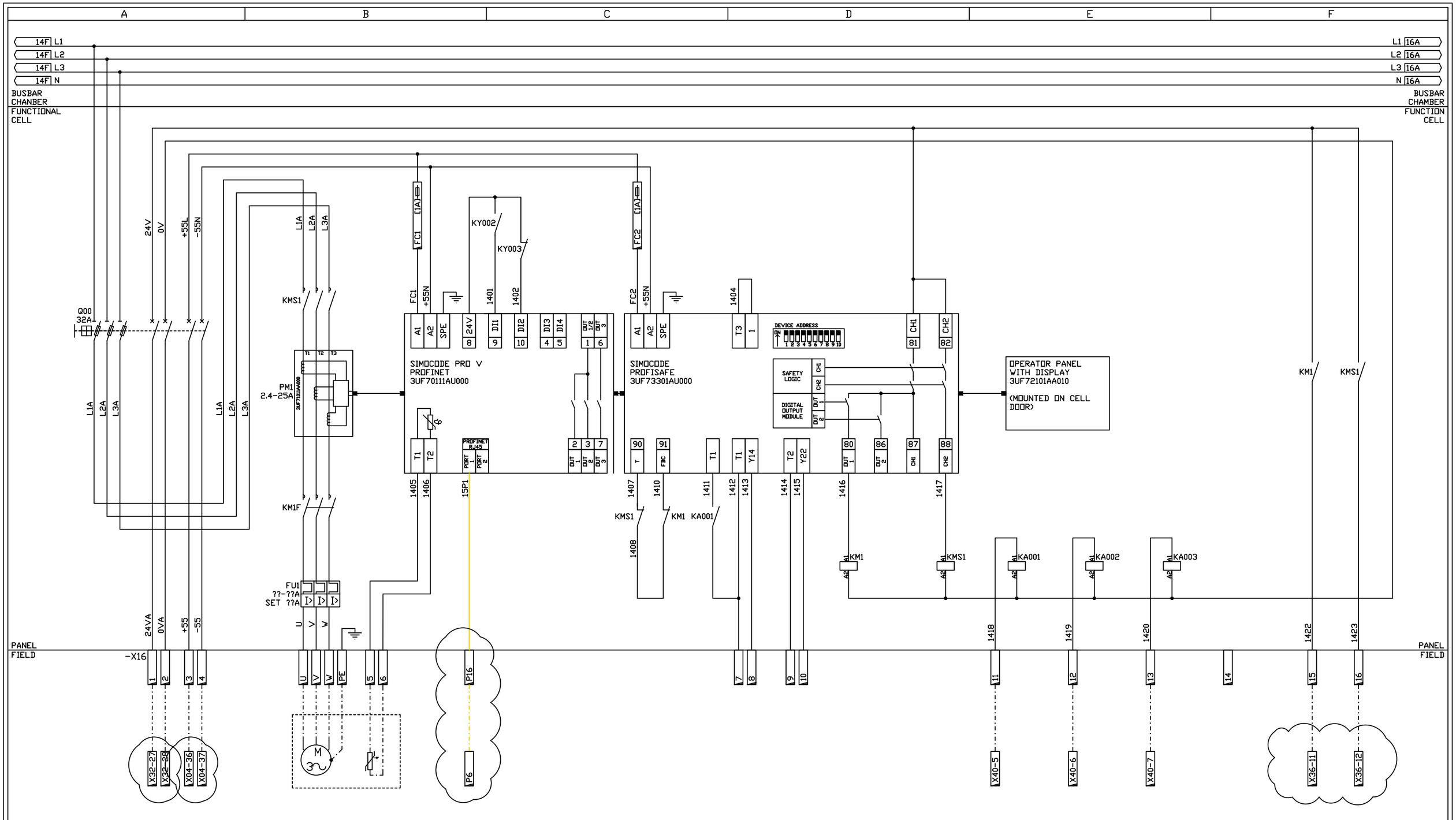
INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

HF Controls Ltd
100 Albert Drive, Glasgow G41 2SJ
Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 14



MAIN SUPPLY ISOLATOR			CONVEYOR MC3			E-STOP CIRCUITS		ENABLE CIRCUITS				SYSTEM COMMAND SIGNALS				FEEDBACK STATUS	
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR xxKW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45	EMERGENCY STOP CHANNEL 1	EMERGENCY STOP CHANNEL 2	MOTOR FWD COIL	MOTOR REV COIL		SAFETY CONTACTOR COIL	SYSTEM RESET RELAY	CONVEYOR FWD COMMAND	CONVEYOR STOP COMMAND		CONVEYOR RUNNING	SAFETY CONTACTOR ENABLED

DRAWING STATUS

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CELL D5
LORRY WEIGHBACK CHAIN CONVEYOR LWCC2

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

HF Controls Ltd
100 Albert Drive, Glasgow G41 2SJ
Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 15

A	B	C	D	E	F

16F L1 — L1 18A
16F L2 — L2 18A
16F L3 — L3 18A
16F N — N 18A

BUSBAR CHANBER — BUSBAR CHAMBER
FUNCTIONAL CELL — FUNCTION CELL

CELL D6
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL D6
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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DRG. No.: 284595 / 1001 / 17

A	B	C	D	E	F

17F L1 — L1 19A
17F L2 — L2 19A
17F L3 — L3 19A
17F N — N 19A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL D7
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL D7
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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DRG. No.: 284595 / 1001 / 18

A	B	C	D	E	F

18F L1 — L1 13A
18F L2 — L2 13A
18F L3 — L3 13A
18F N — N 13A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL D8
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL D8
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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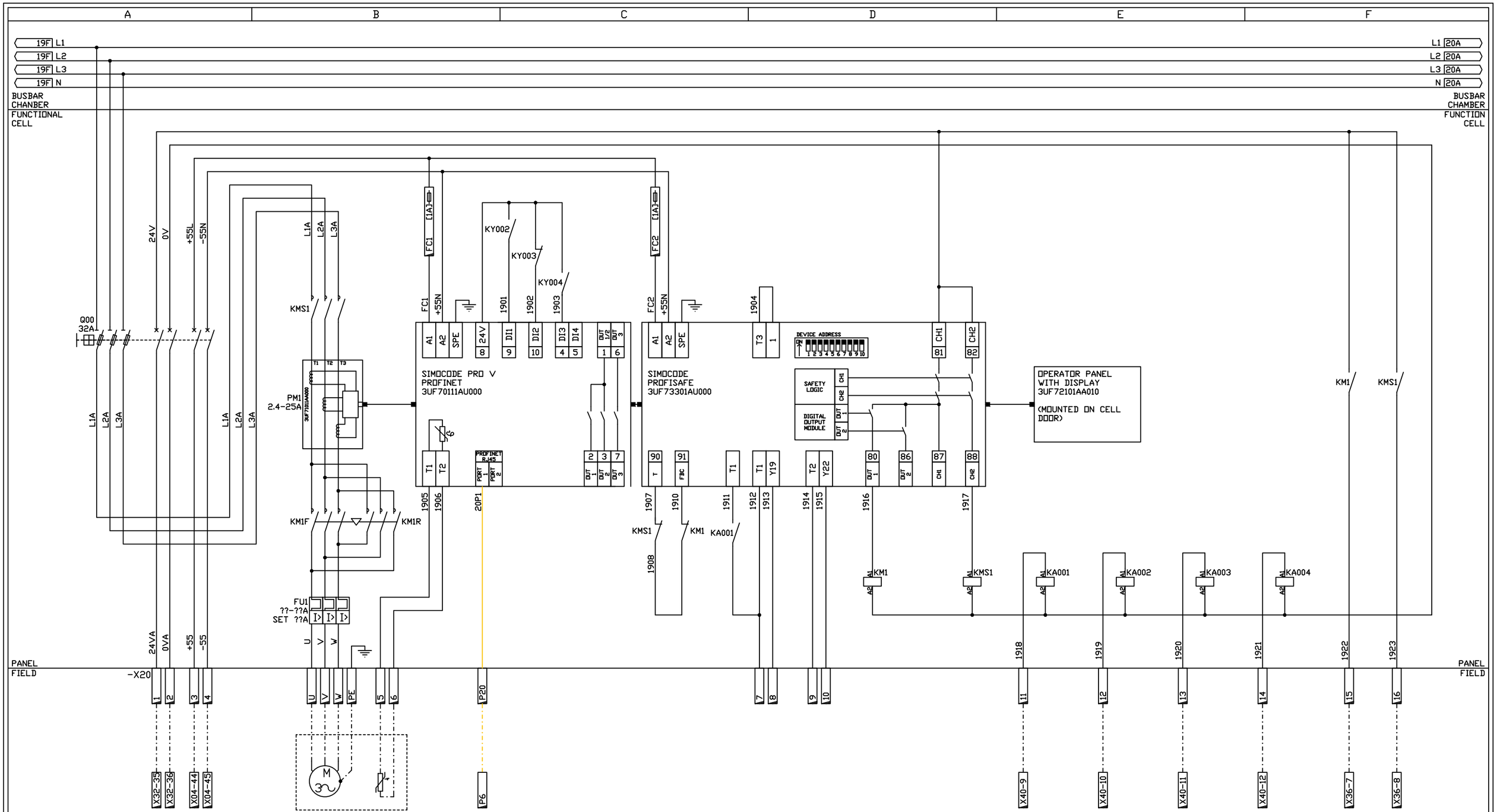
email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 19



MAIN SUPPLY ISOLATOR			SURGE & BASEMENT STARTERS			E-STOP CIRCUITS		ENABLE CIRCUITS				SYSTEM COMMAND SIGNALS				FEEDBACK STATUS	
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR xxKW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45	EMERGENCY STOP CHANNEL 1	EMERGENCY STOP CHANNEL 2	MOTOR FWD COIL	MOTOR REV COIL		SAFETY CONTACTOR COIL	SYSTEM RESET RELAY	CONVEYOR FWD COMMAND	CONVEYOR STOP COMMAND	CONVEYOR REV COMMAND	CONVEYOR RUNNING	SAFETY CONTACTOR ENABLED

DRAWING STATUS

FIRST DRAFT ☒

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CELL E1
SURGE & BASEMENT BELT - VALVE STARTERS

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

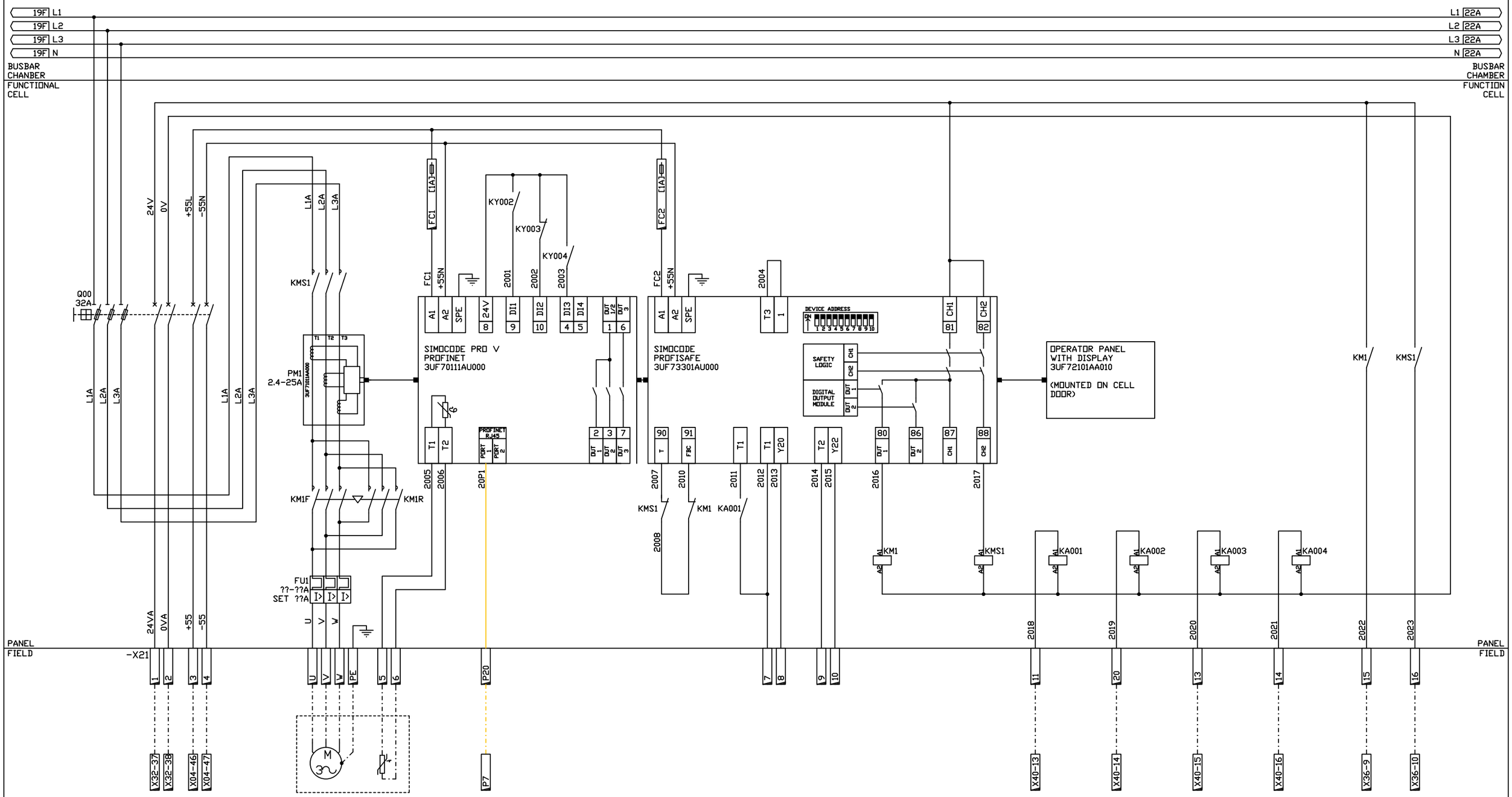
INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

HF Controls Ltd
100 Albert Drive, Glasgow G41 2SJ
Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 20



MAIN SUPPLY ISOLATOR			MILL BIN 1 STARTERS			E-STOP CIRCUITS		ENABLE CIRCUITS				SYSTEM COMMAND SIGNALS				FEEDBACK STATUS	
3-PHASE SUPPLY FROM BUSBAR	24VDC SUPPLY FROM CELL B2	110VAC SUPPLY FROM CELL A1	MILL FEED MOTOR xxKW FLC=xxxA	MOTOR THERMISTOR	PROFINET CONNECTION RJ45	EMERGENCY STOP CHANNEL 1	EMERGENCY STOP CHANNEL 2	MOTOR FWD COIL	MOTOR REV COIL		SAFETY CONTACTOR COIL	SYSTEM RESET RELAY	CONVEYOR FWD COMMAND	CONVEYOR STOP COMMAND	CONVEYOR REV COMMAND	CONVEYOR RUNNING	SAFETY CONTACTOR ENABLED

DRAWING STATUS

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CELL E2
MILL BIN 1 - VALVE STARTERS

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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DRG. No.: 284595 / 1001 / 21

A	B	C	D	E	F

21F L1 — L1 23A
21F L2 — L2 23A
21F L3 — L3 23A
21F N — N 23A

BUSBAR CHANBER — BUSBAR CHAMBER
FUNCTIONAL CELL — FUNCTION CELL

CELL E3
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL E3
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 22

A	B	C	D	E	F

22F L1 — L1 24A
22F L2 — L2 24A
22F L3 — L3 24A
22F N — N 24A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F1
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F1
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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DRG. No.: 284595 / 1001 / 23

A	B	C	D	E	F

23F L1 — L1 25A
23F L2 — L2 25A
23F L3 — L3 25A
23F N — N 25A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F2
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F2
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
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CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 24

A	B	C	D	E	F

24F L1 — L1 11A
24F L2 — L2 11A
24F L3 — L3 11A
24F N — N 11A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F3
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F3
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
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CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 25

A	B	C	D	E	F

25F L1 — L1 27A
25F L2 — L2 27A
25F L3 — L3 27A
25F N — N 27A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F4
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F4
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
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DRG. No.: 284595 / 1001 / 26

A	B	C	D	E	F

26F L1 — L1 28A
26F L2 — L2 28A
26F L3 — L3 28A
26F N — N 28A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F5
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

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CELL F5
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
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CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
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DRG. No.: 284595 / 1001 / 27

A	B	C	D	E	F

27F L1 — L1 29A
27F L2 — L2 29A
27F L3 — L3 29A
27F N — N 29A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F6
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL F6
SPARE - NO EQUIPMENT

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

HF Controls Ltd
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email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 28

A	B	C	D	E	F

28F L1 — L1 30A
28F L2 — L2 30A
28F L3 — L3 30A
28F N — N 30A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F7
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL F7
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REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 29

A	B	C	D	E	F

29F L1 — L1 31A
29F L2 — L2 31A
29F L3 — L3 31A
29F N — N 31A

BUSBAR CHANBER FUNCTIONAL CELL — BUSBAR CHAMBER FUNCTION CELL

CELL F8
SPARE

NO EQUIPMENT

PANEL FIELD — PANEL FIELD

DRAWING STATUS

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CELL F8
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REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT
INSTALL: RSGT LIVERPOOL
TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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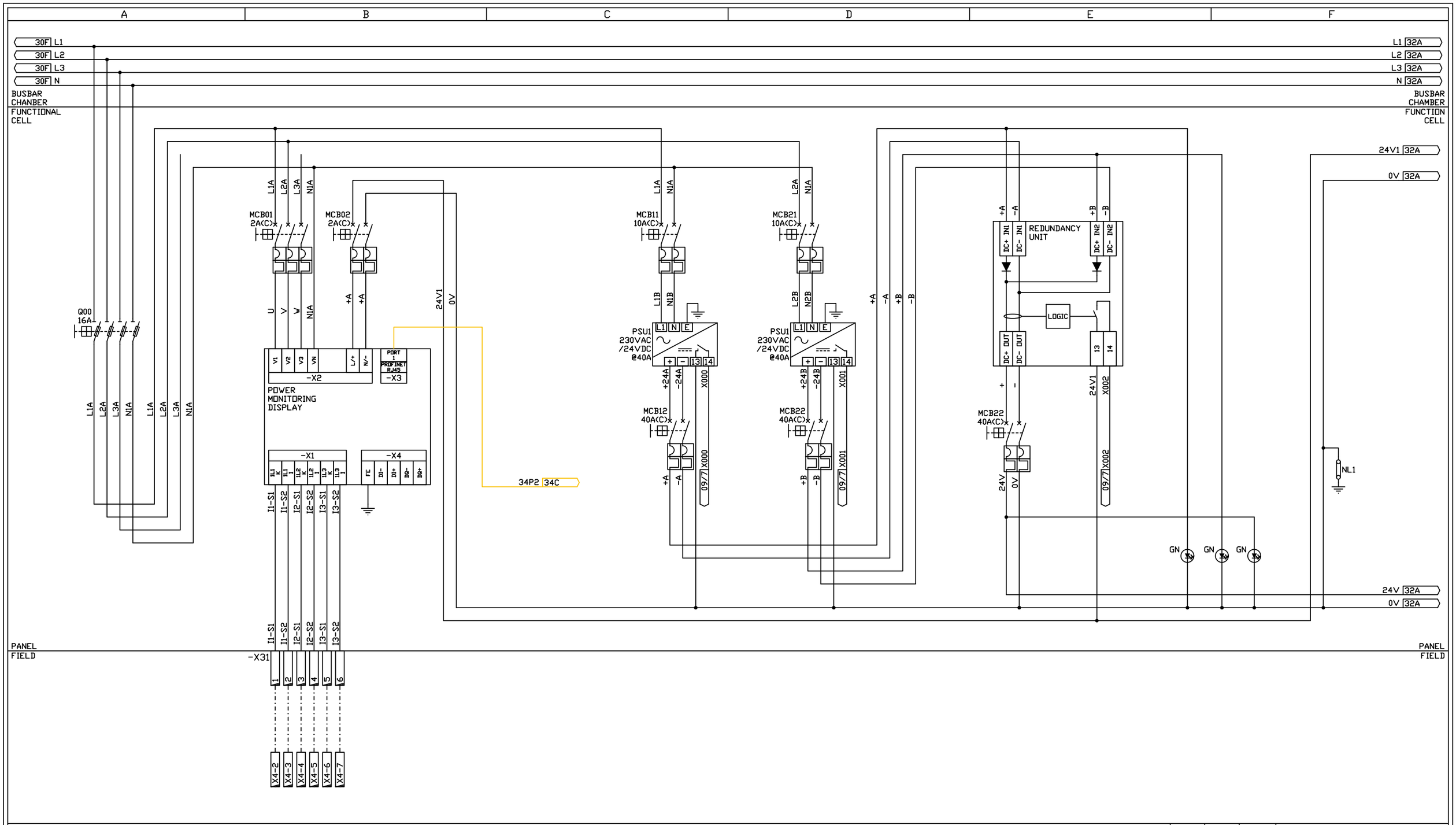
100 Albert Drive, Glasgow G41 2SJ
Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 30



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CELL B2
PLC CONTROL SECTION - POWER SUPPLY AND MONITORING

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

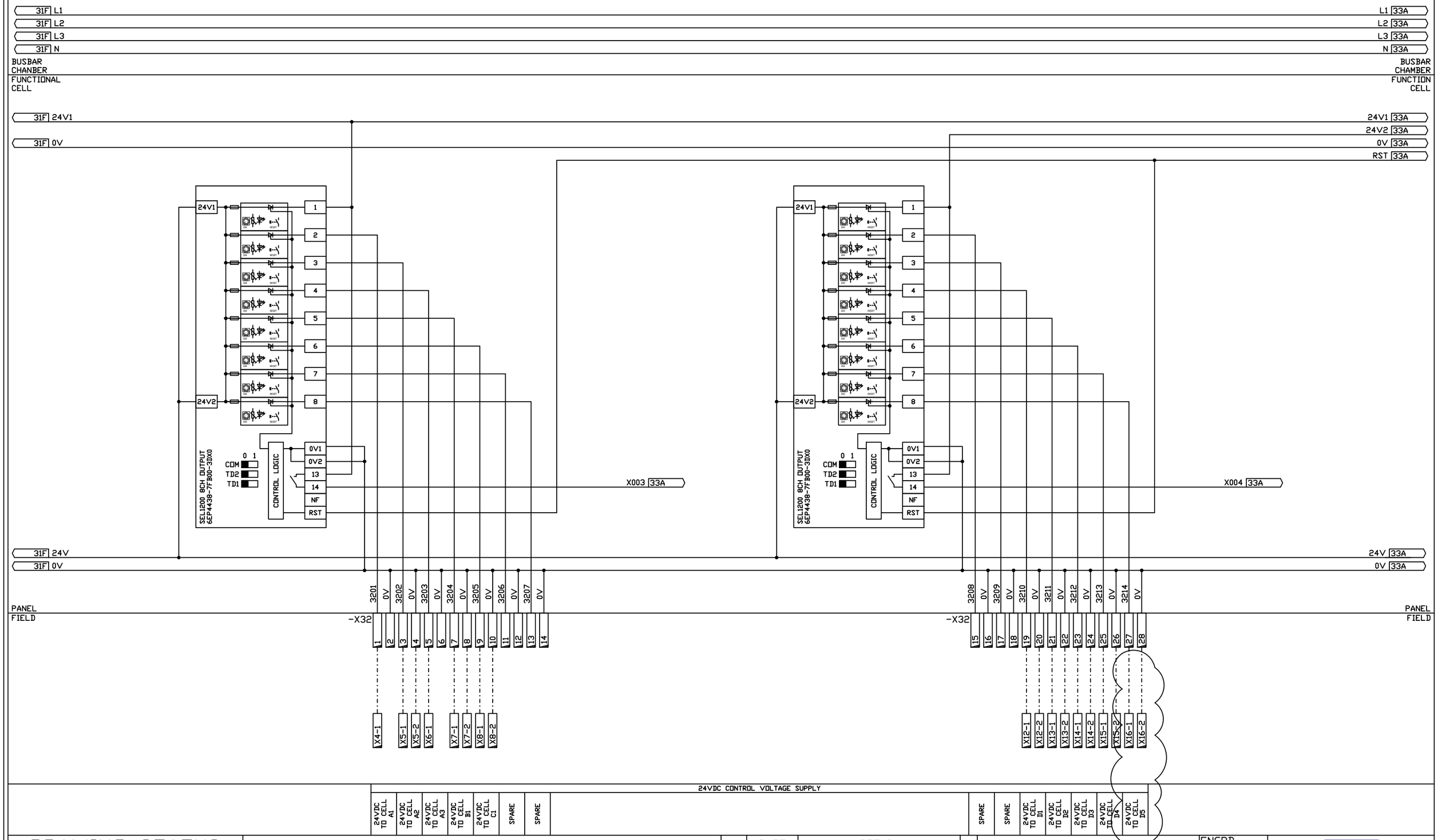
INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

HF Controls Ltd
100 Albert Drive, Glasgow G41 2SJ
Tel: +44 (0)141 429 5575 Fax: +44 (0)141 420 1054
email: hf@hfcontrols.co.uk www.hf-group.co.uk

DRG. No.: 284595 / 1001 / 31



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CELL B2
PLC CONTROL SECTION - 24VDC DISTRIBUTION

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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email: hf@hfcontrols.co.uk www.hf-group.co.uk

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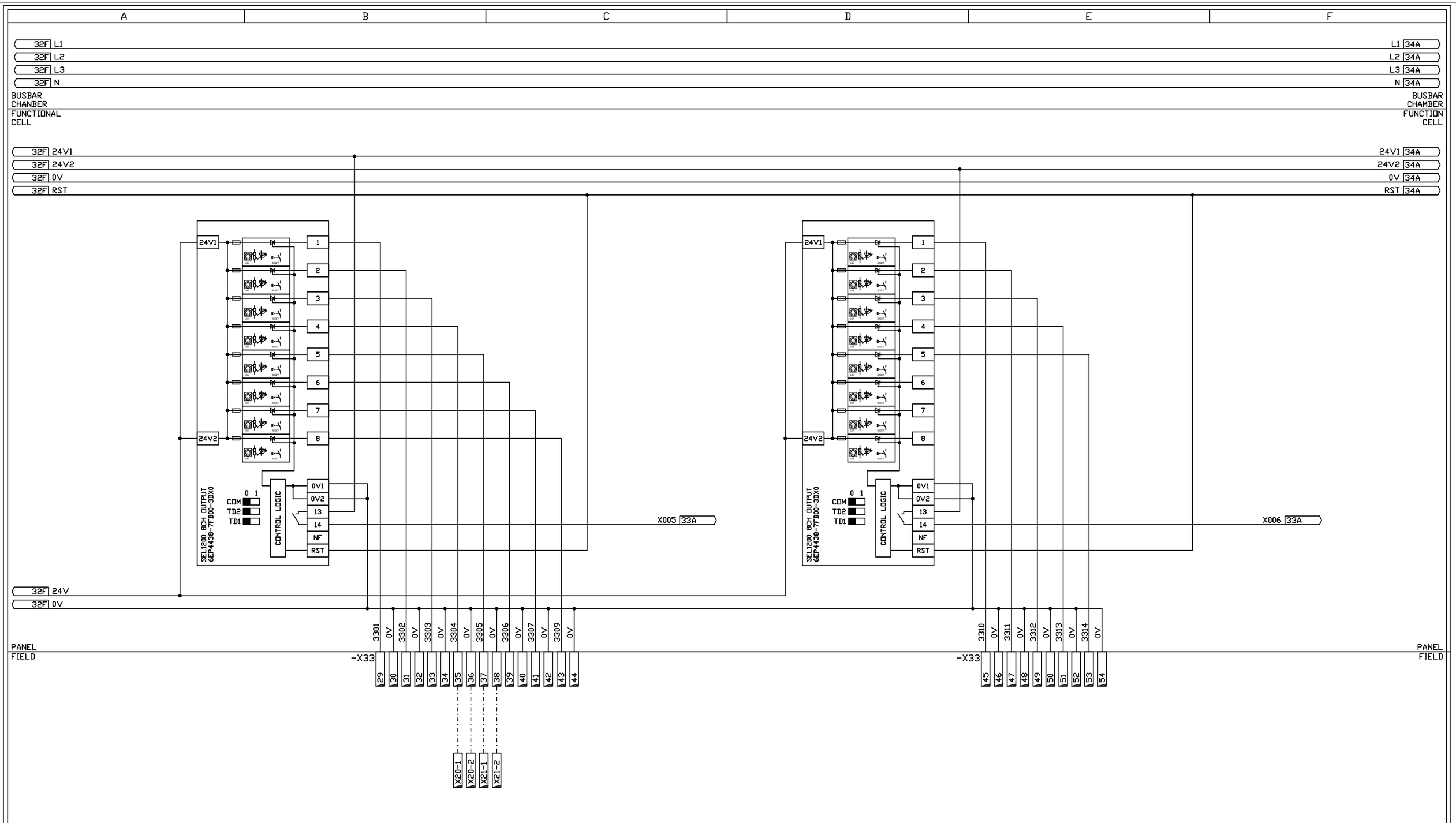

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CELL B2
PLC CONTROL SECTION - 24VDC DISTRIBUTION

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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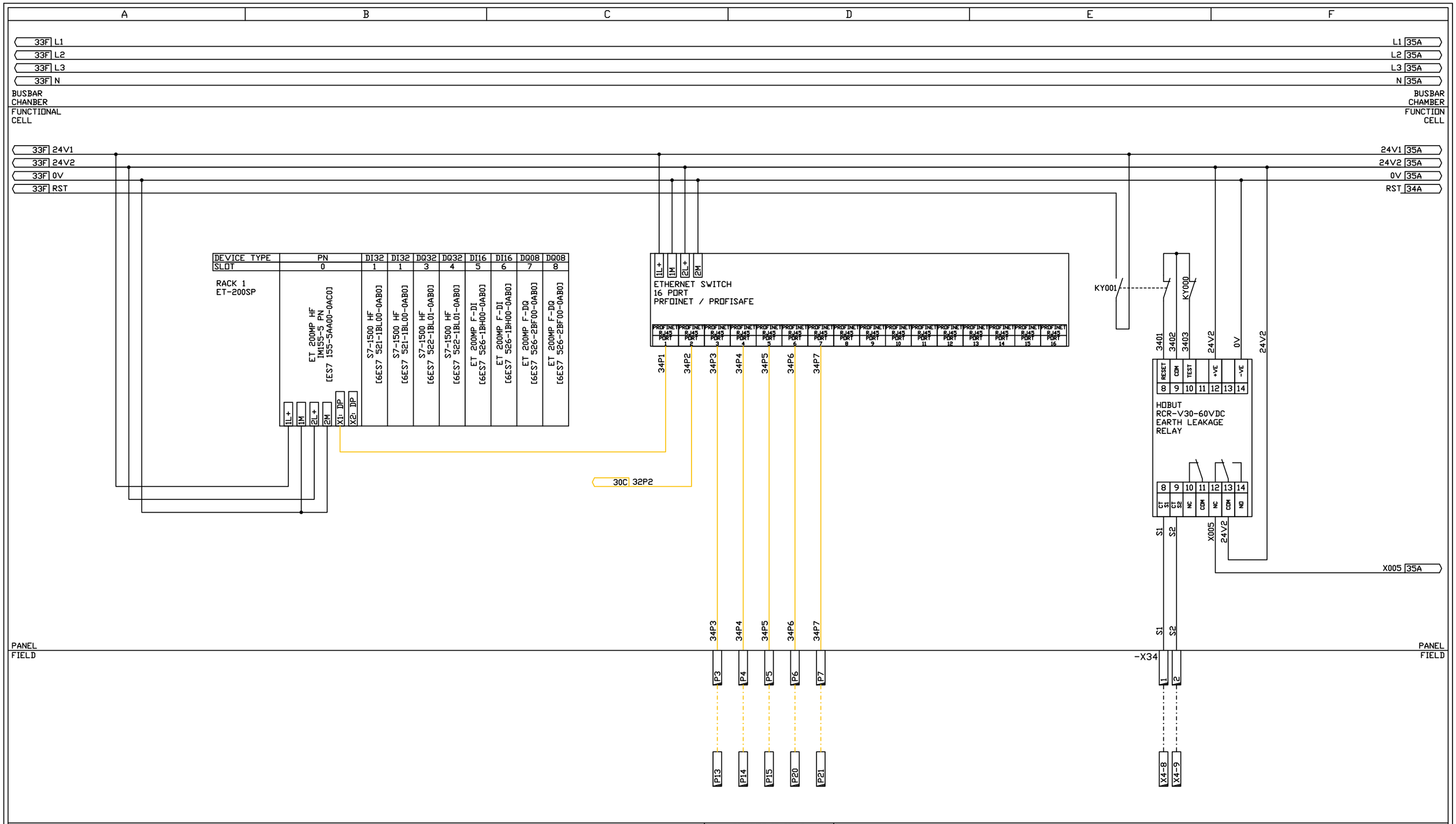

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CELL B2
PLC CONTROL SECTION - PLC CONTROLLER AND COMMS

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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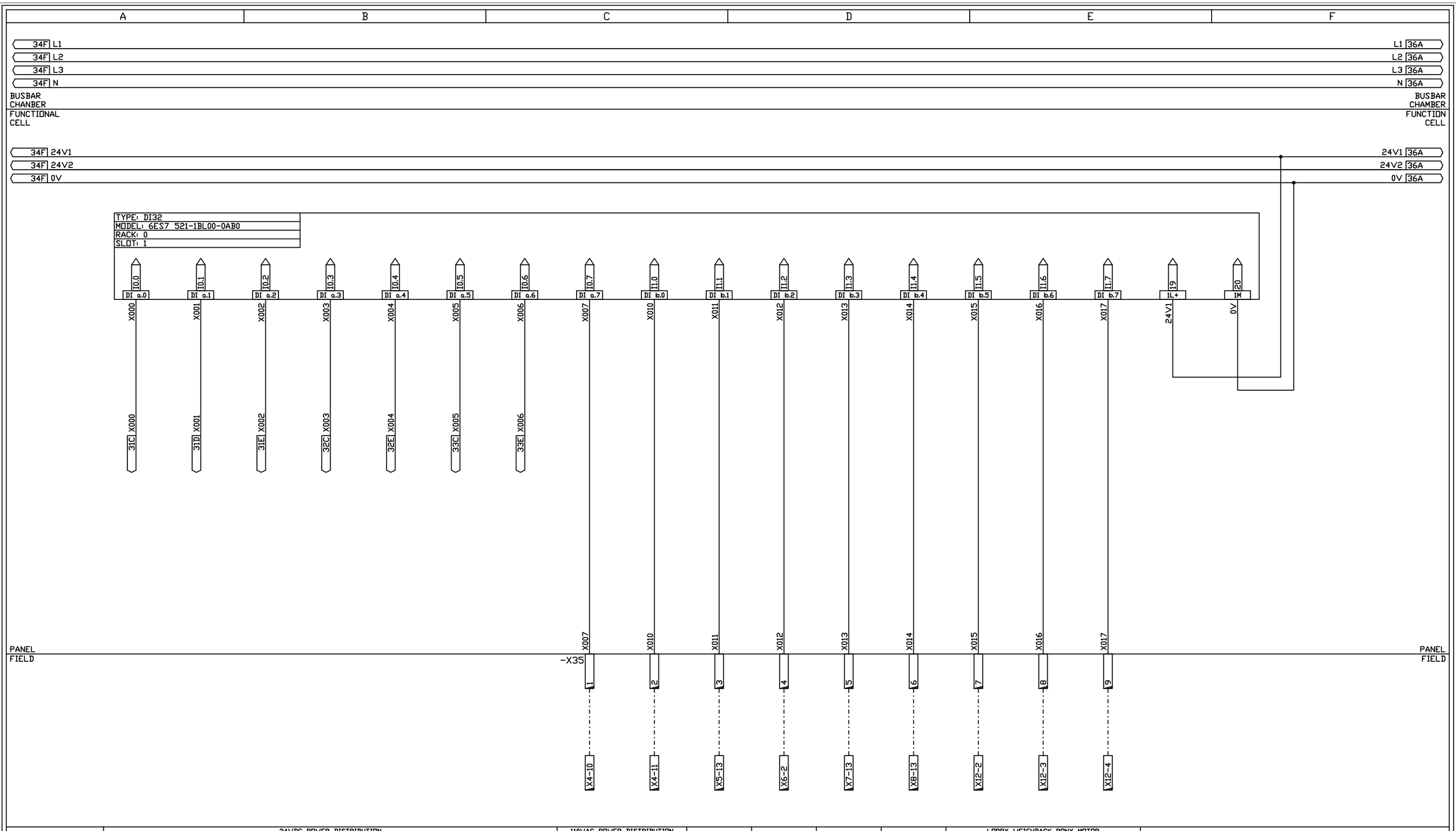

24VDC POWER DISTRIBUTION							110VAC POWER DISTRIBUTION							LORRY WEIGHBACK PONY MOTOR		
POWER SUPPLY #1 HEALTHY	POWER SUPPLY #2 HEALTHY	DIODE DECOUPLER HEALTHY	DIGITAL FUSE CONTROLLER #1 HEALTHY	DIGITAL FUSE CONTROLLER #2 HEALTHY	DIGITAL FUSE CONTROLLER #3 HEALTHY	DIGITAL FUSE CONTROLLER #4 HEALTHY	TX1 SUPPLY HEALTHY	TX2 SUPPLY HEALTHY	EMERGENCY STOP RELAY HEALTHY CELL A2	LORRY LOADING SCALE ISOLATOR STATUS CELL A3	EMERGENCY STOP RELAY HEALTHY CELL B1	EMERGENCY STOP RELAY HEALTHY CELL C1	MOTOR ISOLATOR STATUS CELL D1	MOTOR RUNNING STATUS CELL D1	MOTOR OVERLOAD STATUS CELL D1

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CELL B2
PLC CONTROL SECTION - DIGITAL INPUTS SLOT 1

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
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DATE 12/02/25

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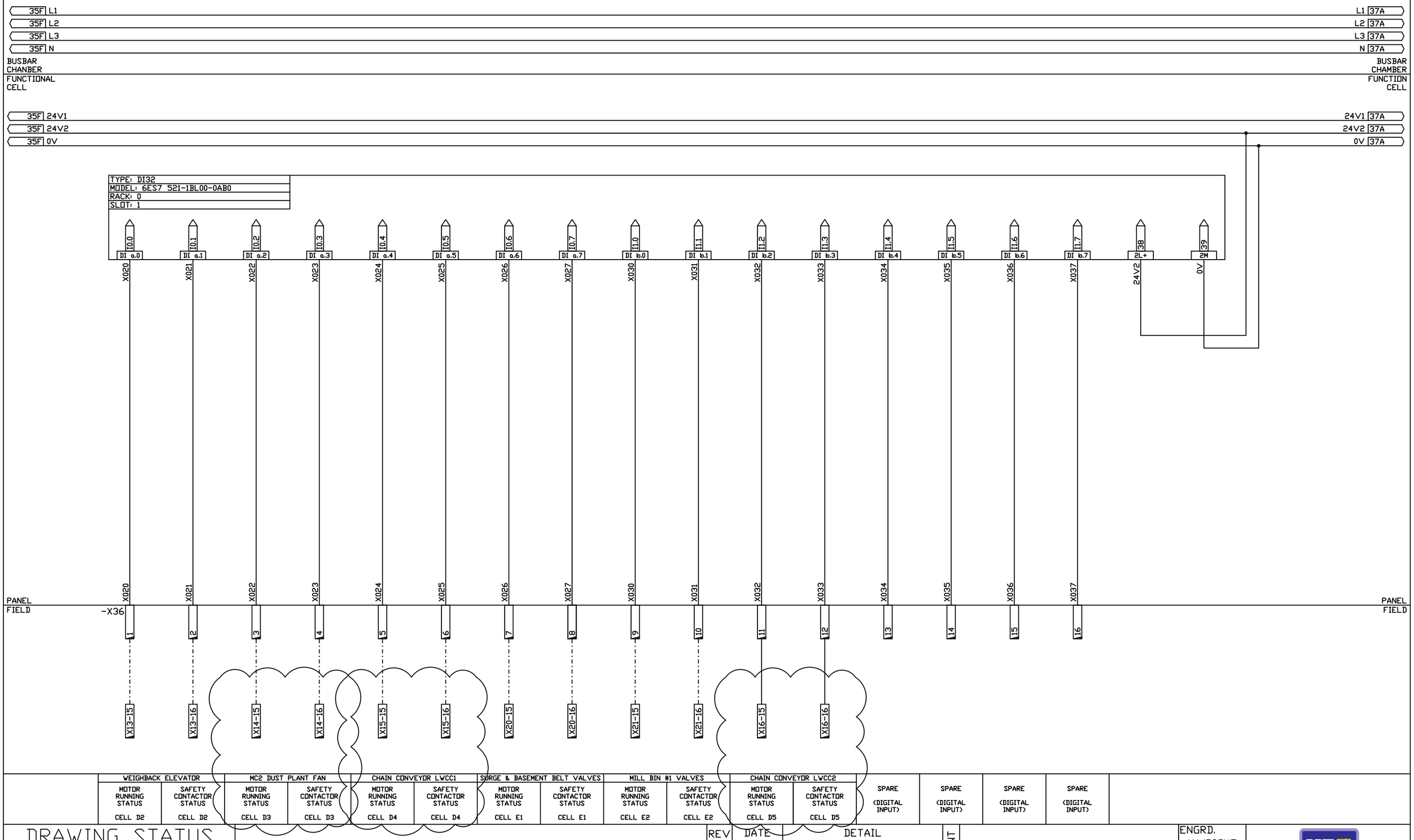

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CELL B2
PLC CONTROL SECTION - DIGITAL INPUTS SLOT 1

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

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DATE 12/02/25

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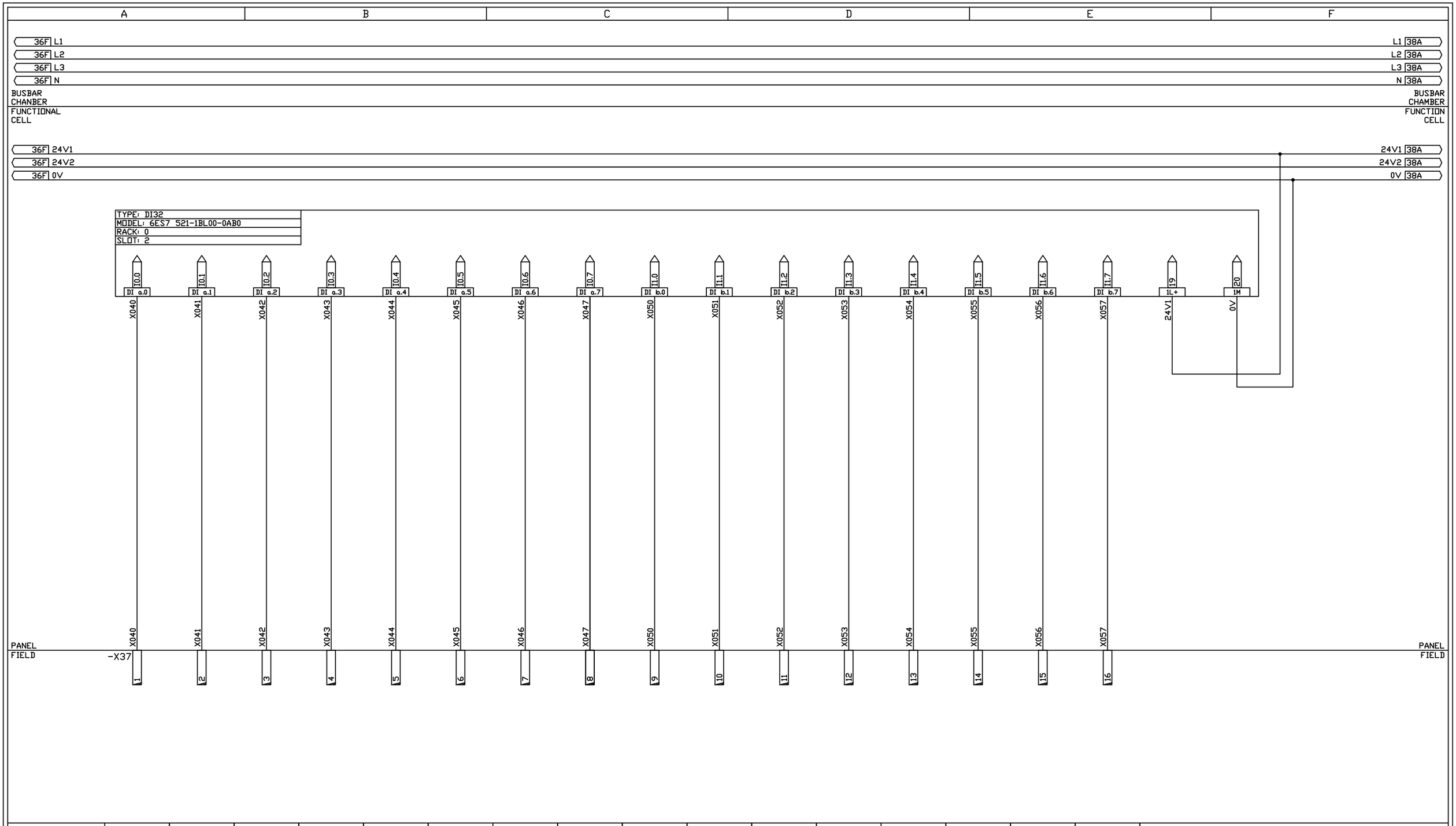

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CELL B2
PLC CONTROL SECTION - DIGITAL INPUTS SLOT 2

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT
DRAWN. M.WRIGHT
CHECK B.DUFFY
DATE 12/02/25

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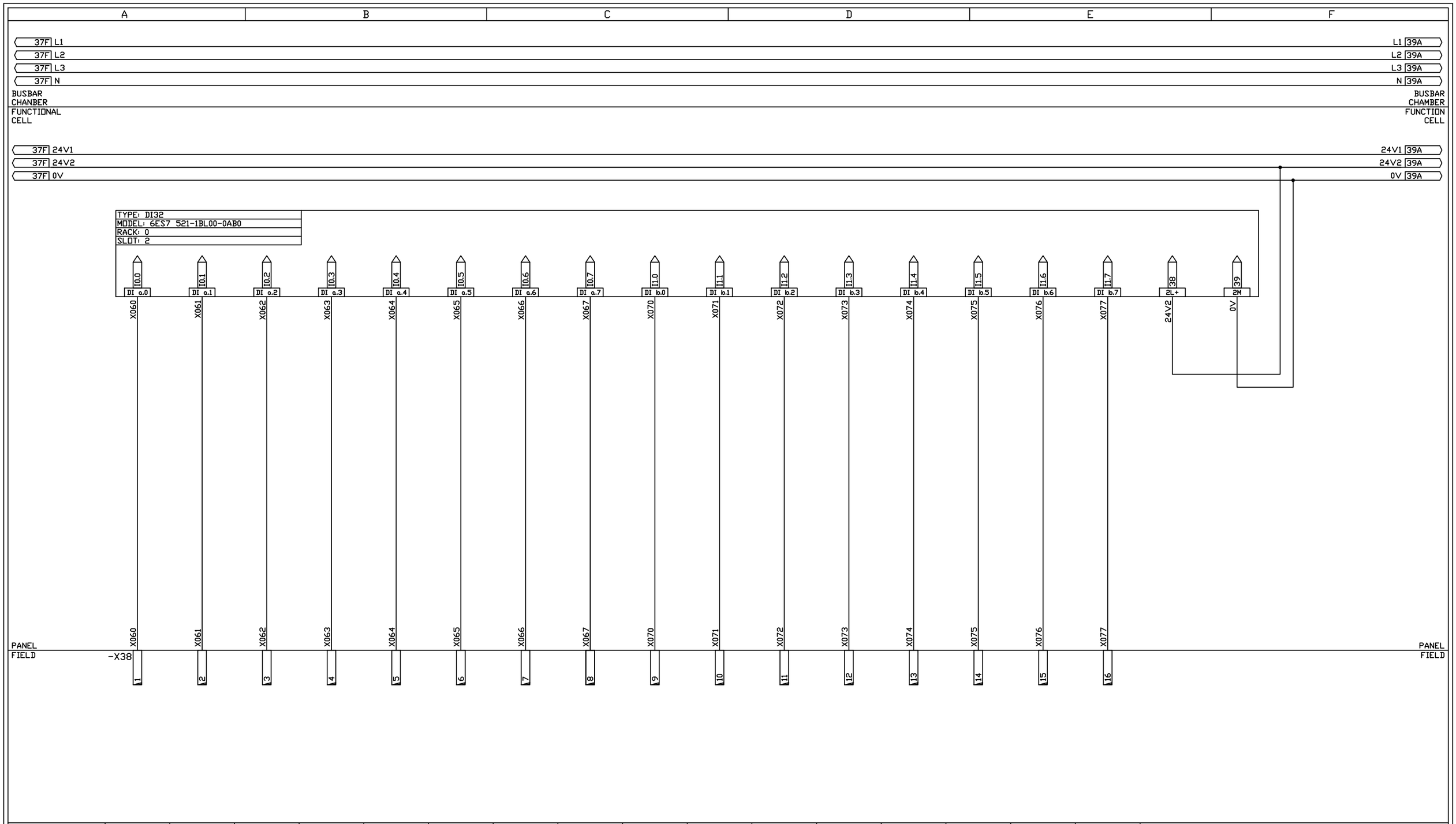

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CELL B2
PLC CONTROL SECTION - DIGITAL INPUTS SLOT 2

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

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DATE 12/02/25

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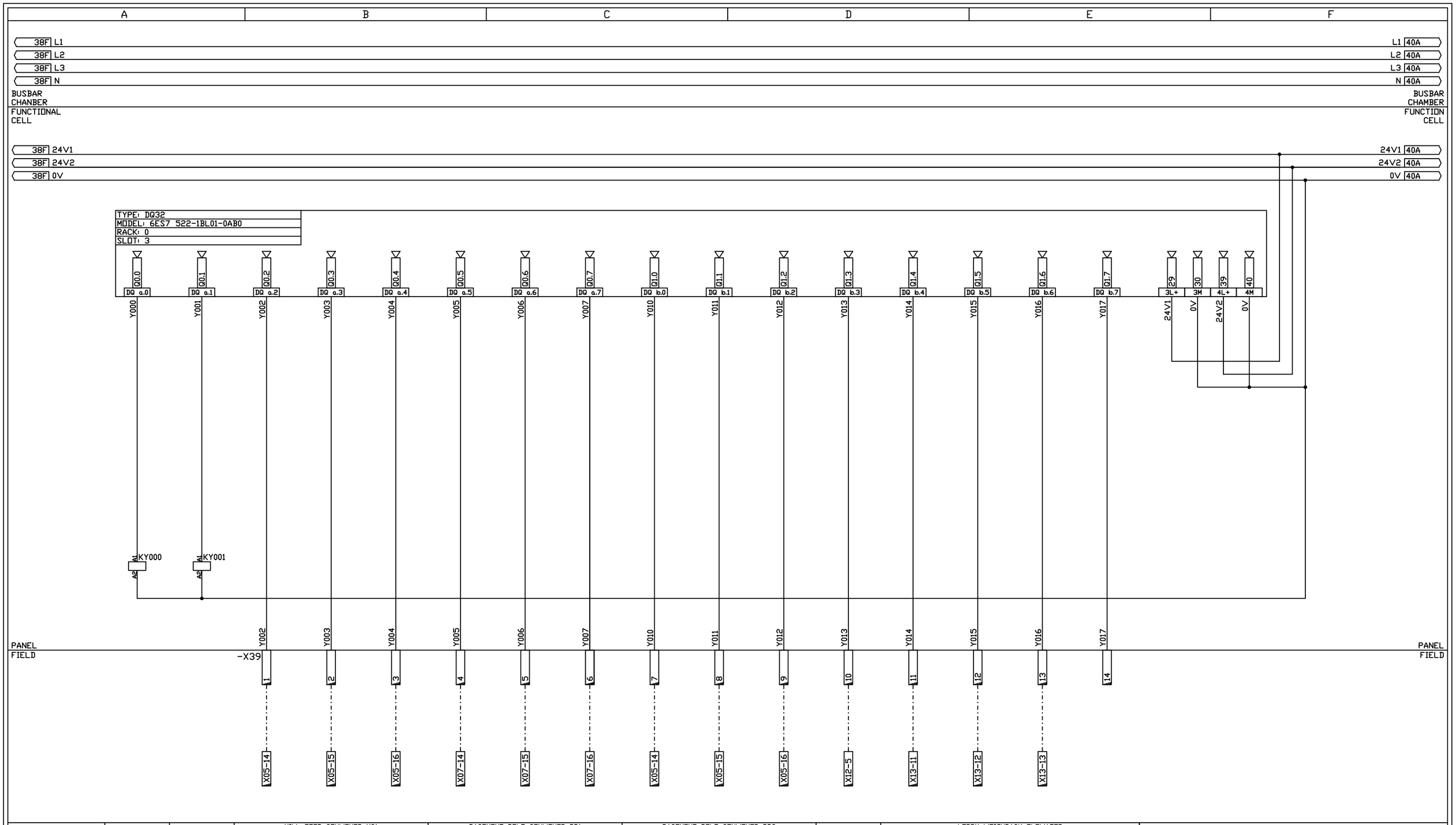

	SYSTEM TEST RELAY	FAULT RESET RELAY	MILL FEED CONVEYOR MC1			BASEMENT BELT CONVEYOR BB1			BASEMENT BELT CONVEYOR BB2			LORRY WEIGHBACK PONY MOTOR START	LORRY WEIGHBACK ELEVATOR			
			FAULT RESET CELL A2	START MOTOR CELL A2	ENABLE SAFETY COTACTOR CELL A2	FAULT RESET CELL B1	START MOTOR CELL B1	ENABLE SAFETY COTACTOR CELL B1	FAULT RESET CELL C1	START MOTOR CELL C1	ENABLE SAFETY COTACTOR CELL C1	CELL D1	FAULT RESET CELL D2	START MOTOR CELL D2	MOTOR STOP CELL D2	SPARE DIGITAL OUTPUT

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CELL B2
PLC CONTROL SECTION - DIGITAL OUTPUTS SLOT 3

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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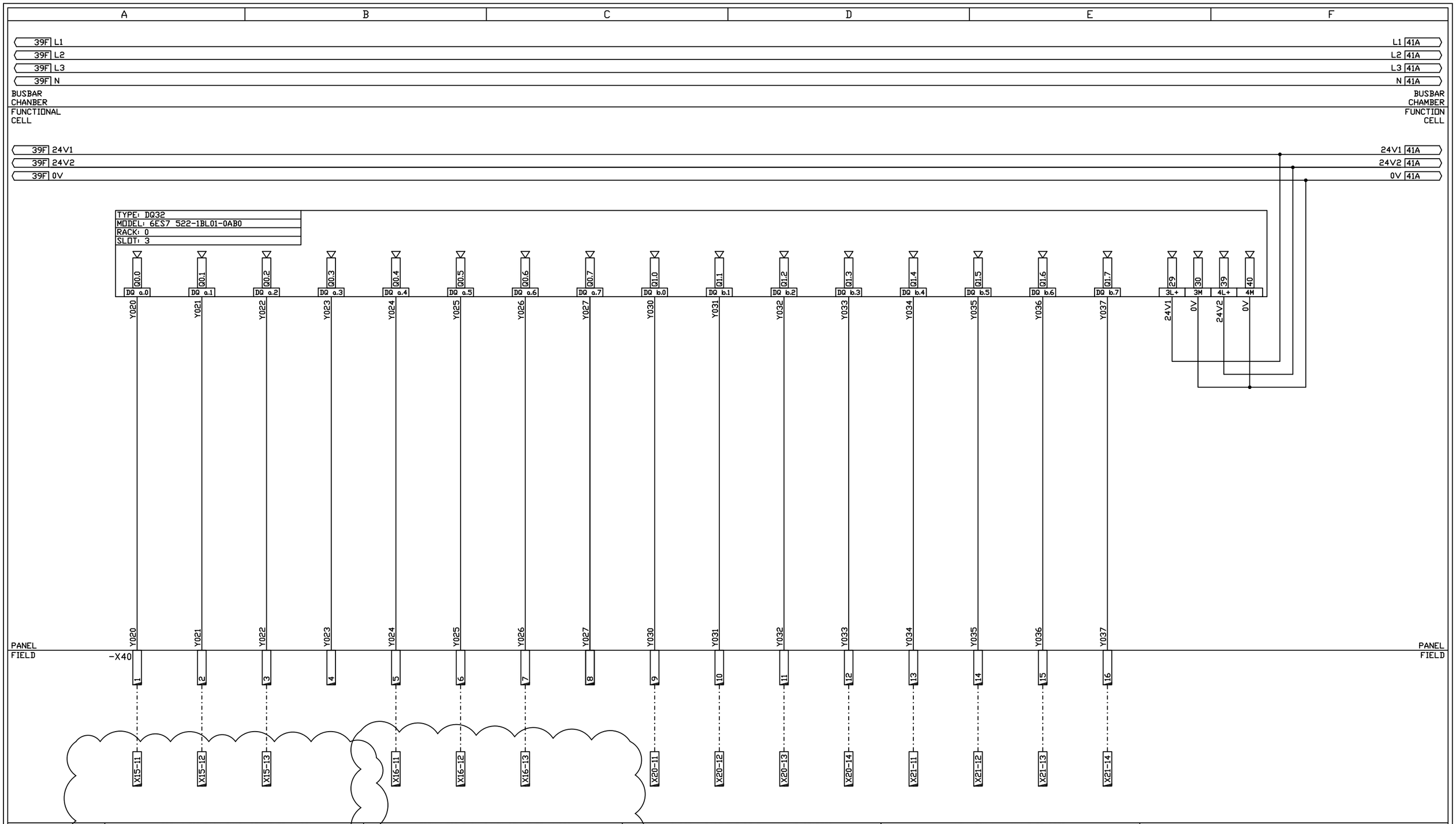

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CELL B2
PLC CONTROL SECTION - DIGITAL OUTPUTS SLOT 3

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

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DATE 12/02/25

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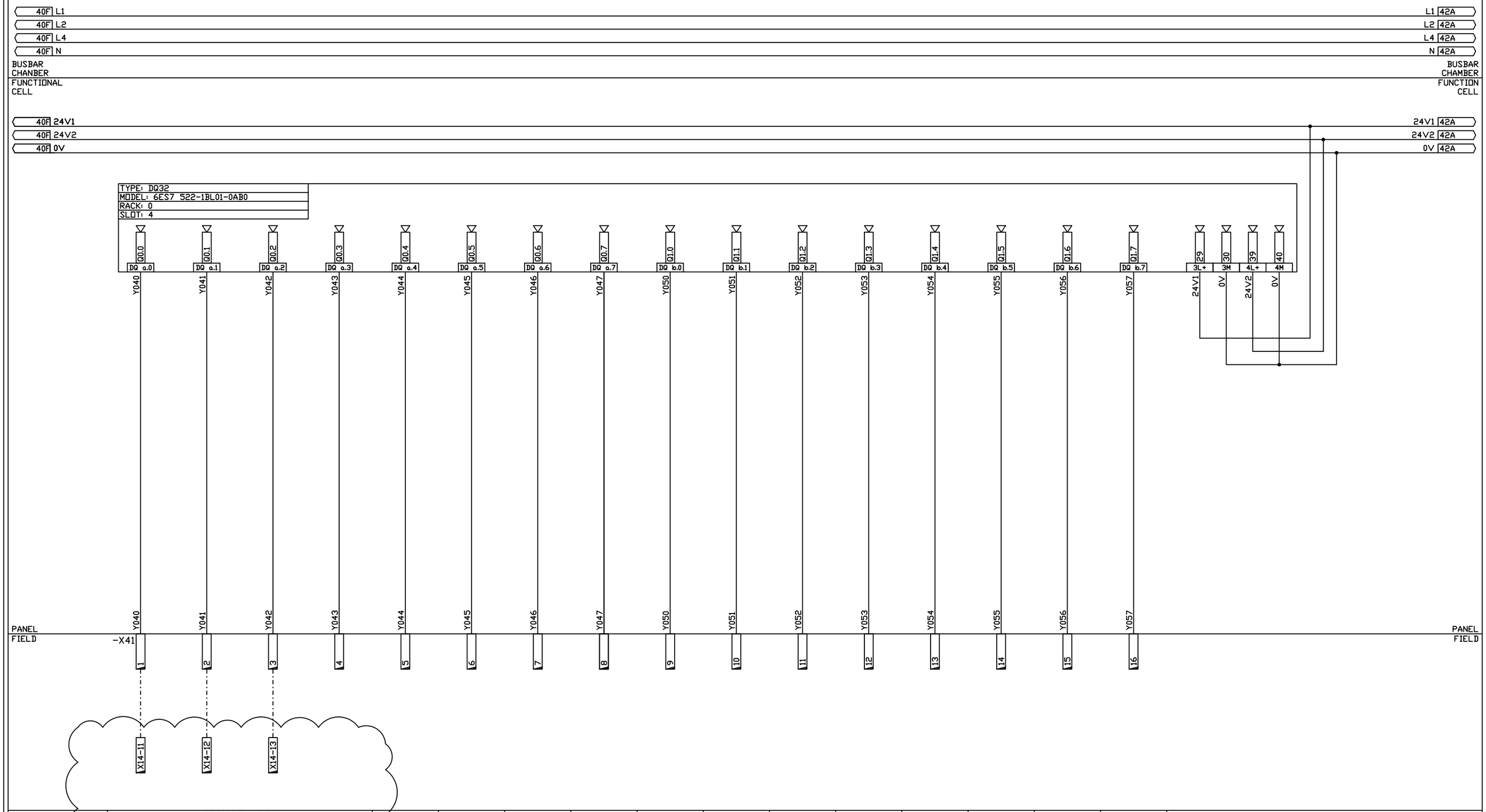

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CELL B2
PLC CONTROL SECTION - DIGITAL OUTPUTS SLOT 4

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
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07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

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DATE 12/02/25

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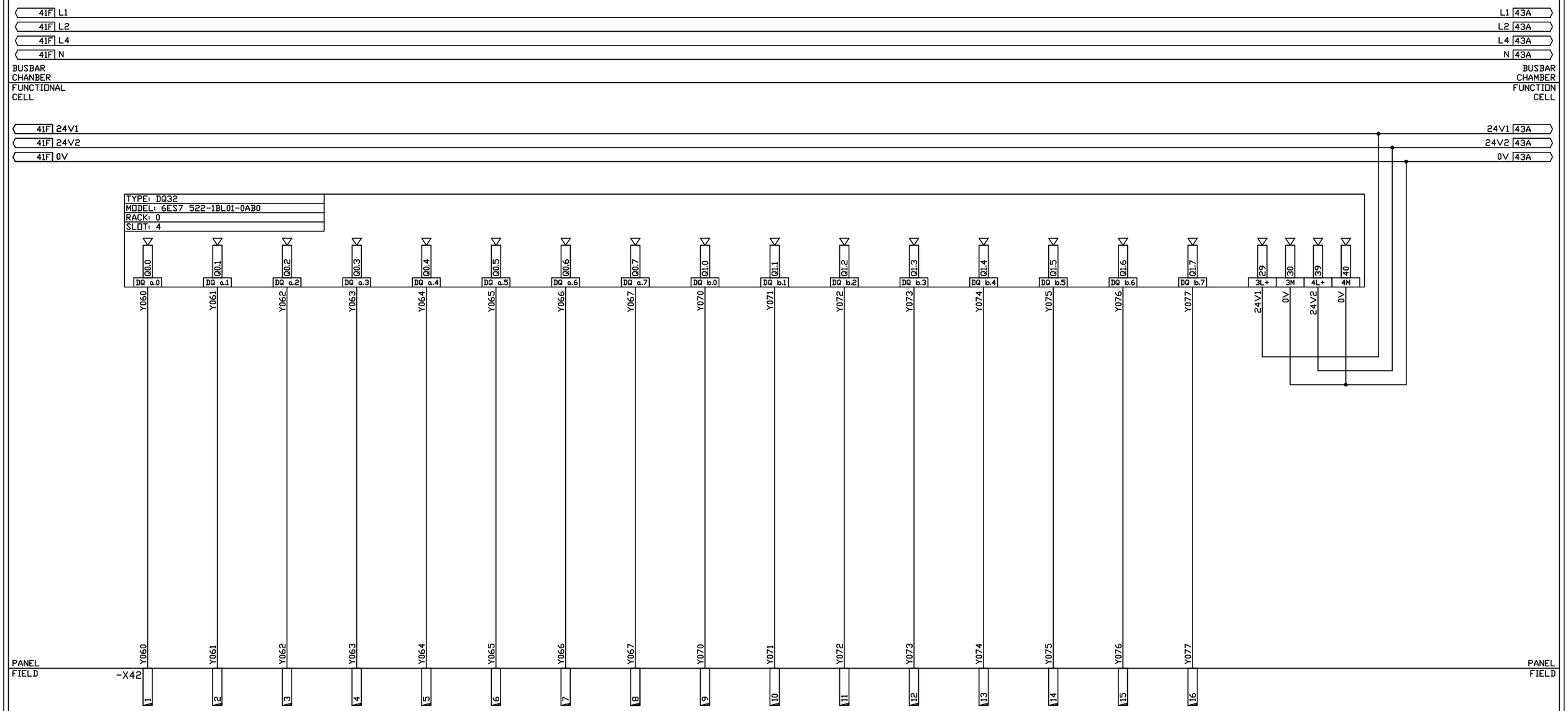

SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT	SPARE DIGITAL OUTPUT

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CELL B2
PLC CONTROL SECTION - DIGITAL OUTPUTS SLOT 4

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
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06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

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DATE 12/02/25

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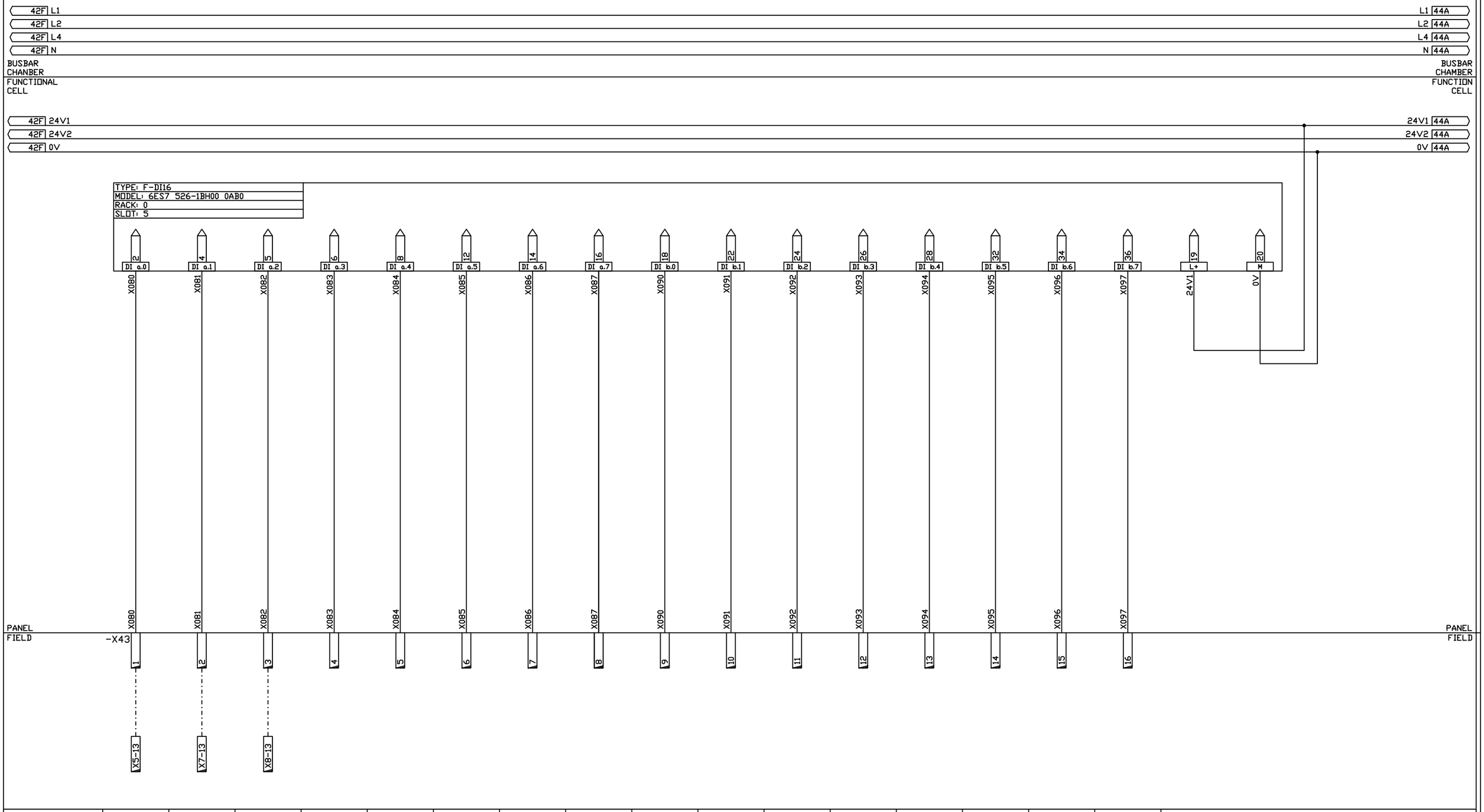

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CELL B2
PLC CONTROL SECTION - SAFETY INPUTS SLOT 5

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
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CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

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DATE 12/02/25

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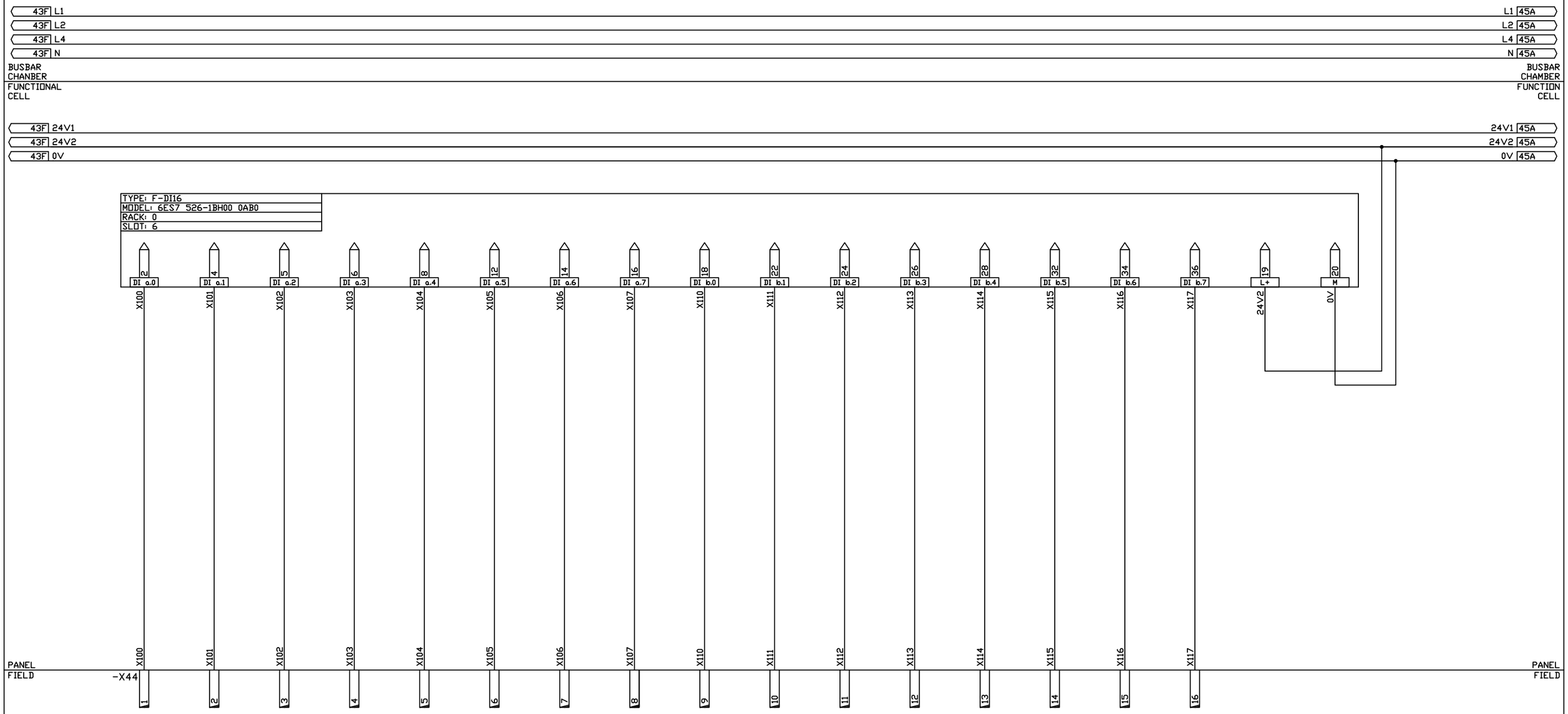

	SPARE DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT	SPARE SAFETY DIGITAL INPUT

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CELL B2
PLC CONTROL SECTION - SAFETY INPUTS SLOT 6

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
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07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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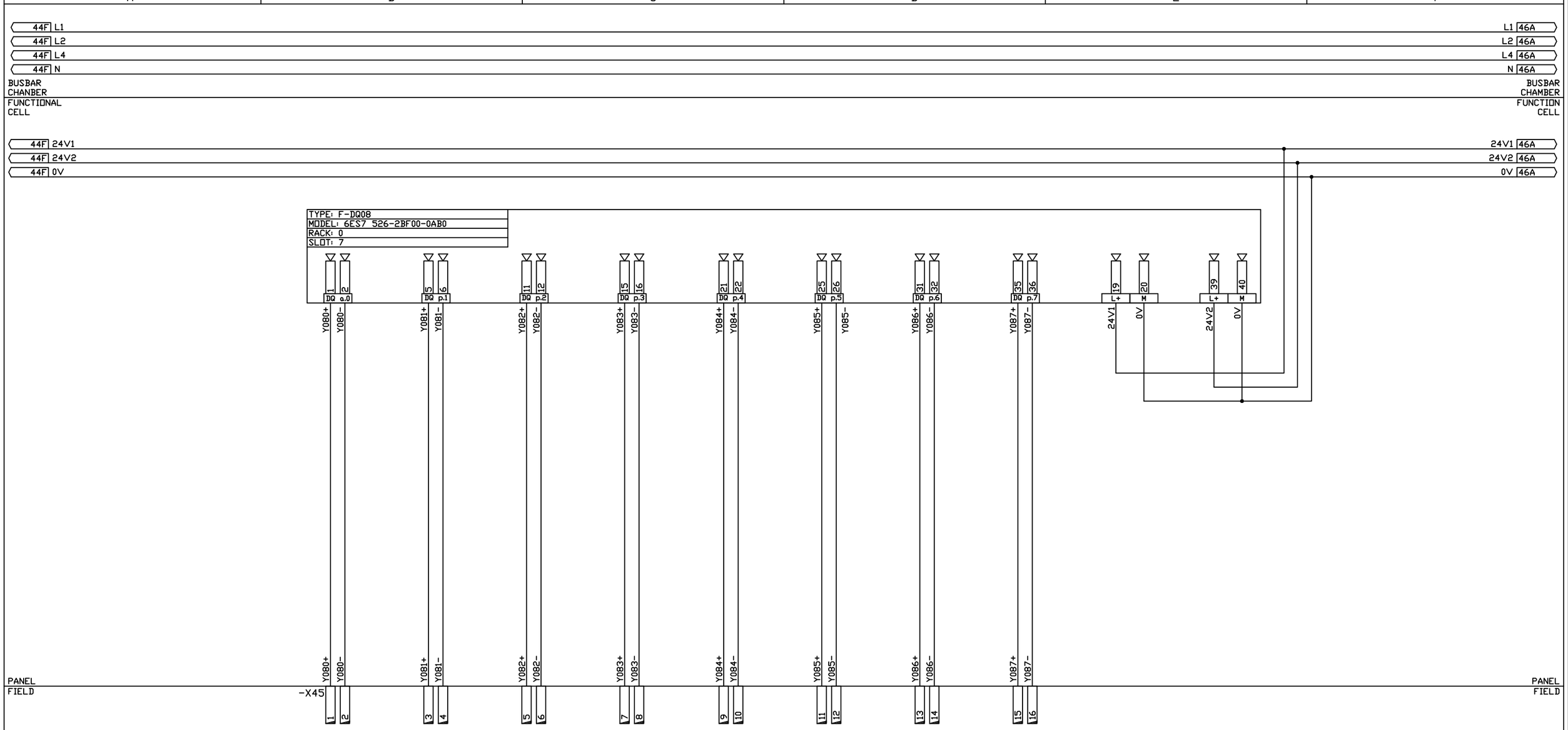
DRG. No.: 284595 / 1001 / 44



MILL FEED CONVEYOR MC1 SOFTSTART SAFETY ENABLE SIGNAL CELL A2	BASEMENT BELT CONVEYOR BB1 SOFTSTART SAFETY ENABLE SIGNAL CELL B1	BASEMENT BELT CONVEYOR BB2 SOFTSTART SAFETY ENABLE SIGNAL CELL C1	SPARE SAFETY DIGITAL OUTPUT	SPARE SAFETY DIGITAL OUTPUT	SPARE SAFETY DIGITAL OUTPUT	SPARE SAFETY DIGITAL OUTPUT	SPARE SAFETY DIGITAL OUTPUT

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CELL B2
PLC CONTROL SECTION - SAFETY OUTPUTS SLOT 7

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
04		
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07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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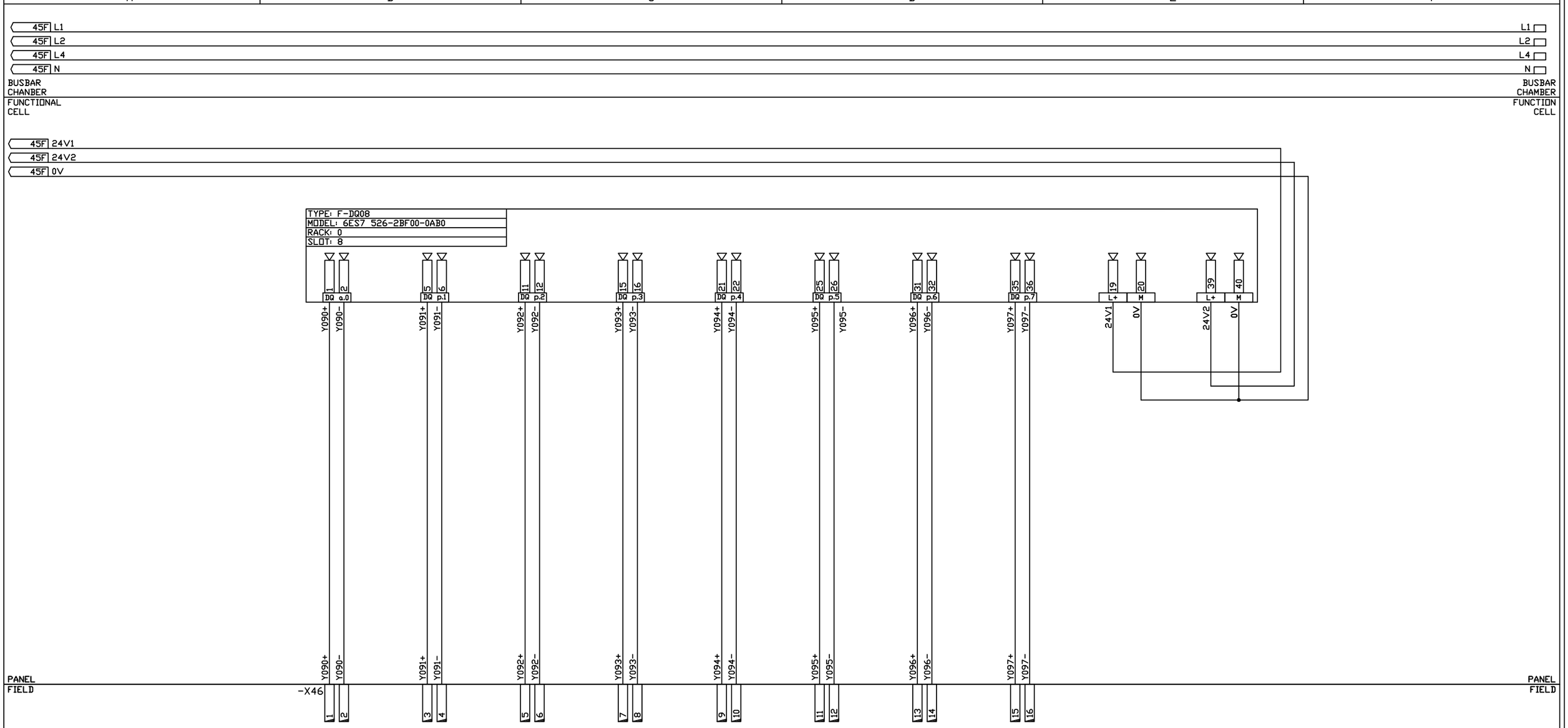

SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE
SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT	SAFETY DIGITAL OUTPUT

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CELL B2
PLC CONTROL SECTION - SAFETY OUTPUTS SLOT 8

REV	DATE	DETAIL
00	05/07/22	FIRST ISSUE
01	12/02/25	MC2 DUST PLANT FAN ADDED
02		
03		
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05		
06		
07		

CLIENT: PEEL PORT

INSTALL: RSGT LIVERPOOL

TITLE: MCC2A WIRING SCHEMATICS

ENGRD. M.WRIGHT

DRAWN. M.WRIGHT

CHECK B.DUFFY

DATE 12/02/25

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