

WILL GUY ELECTRICAL PRINCES LONG SUTTON CONVEYOR CONTROL PANEL

2333



Will Guy Electrical
Unit 39 Mereview Ind Est
Yaxley
Peterborough
PE7 3HS

MAIN PANEL
Cover page

				REVISION
				0
0	08/07/2024	TW		SCHEME
REV.	DATE	NAME	CHANGES	01
User data 1			User data 2	

CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1

Main Control Panel

1-MAIN PANEL

Drawing	Description	Function	Location	Revision	Date	Created by
01	Cover page	=F1	+L1	0	08/07/2024	TW
02	Drawings list	=F1	+L1	0	08/07/2024	TW
04	WIRE COLOUR SCHEDULE	=F1	+L1	0	10/07/2024	TW
05	POWER DISTRIBUTION	=F1	+L1	0	08/07/2024	TW
06	CONTROL DISTRIBUTION	=F1	+L1	0	10/07/2024	TW
07	EMERGENCY STOP CIRCUIT	=F1	+L1	0	10/07/2024	TW
08	INVERTER 1	=F1	+L1	0	10/07/2024	TW
09	INVERTER 2	=F1	+L1	0	10/07/2024	TW
10	INVERTER 3	=F1	+L1	0	10/07/2024	TW
11	INVERTER 4	=F1	+L1	0	10/07/2024	TW
12	INVERTER 5	=F1	+L1	0	10/07/2024	TW
13	PLC LAYOUT AND HMI	=F1	+L1	0	10/07/2024	TW
14	CPU INPUTS	=F1	+L1	0	10/07/2024	TW
15	CPU OUTPUTS	=F1	+L1	0	10/07/2024	TW
16	DIO1 - DIGITAL INPUTS a	=F1	+L1	0	10/07/2024	TW
17	DIO1 - DIGITAL INPUTS b	=F1	+L1	0	10/07/2024	TW
18	DIO1 - DIGITAL OUTPUTS a	=F1	+L1	0	10/07/2024	TW
19	DIO1 - DIGITAL OUTPUTS b	=F1	+L1	0	10/07/2024	TW
20	GA	=F1	+L1	0	12/07/2024	TW

 AAC Technical Services Ltd Unit 2, Brunel Business Court Brunel Way, Thetford, Norfolk IP24 1HP	MAIN PANEL Drawings list	0 08/07/2024 TW	REVISION 0	
		REV. DATE NAME CHANGES		SCHEME 02
		CONTRACT: WGE - PRINCES - LINE 10 - 2333 LOCATION: +L1 Main Control Panel		

WIRE COLOURS

PHASE CABLES - BLACK

NEUTRAL - BLUE

AC - RED

DC - DARK BLUE

0V - WHITE

INTERLOCK - ORANGE

PE - GREEN/ YELLOW



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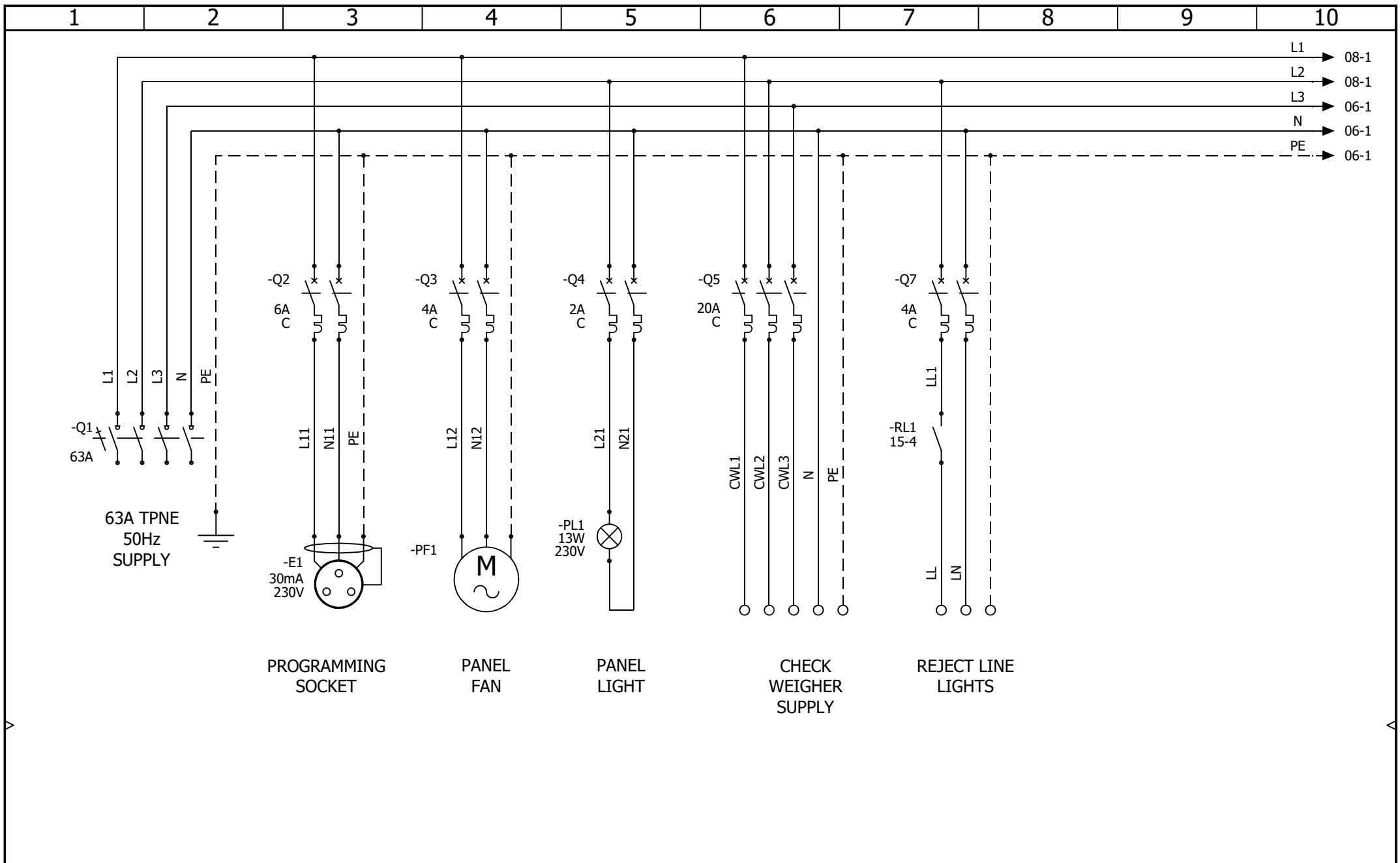
MAIN PANEL WIRE COLOUR SCHEDULE

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REV.	DATE	NAME	CHANGES	SCHEME
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CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1

Main Control Panel



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MAIN PANEL POWER DISTRIBUTION

CONTRACT: WGE - PRINCES - LINE 10 - 2333

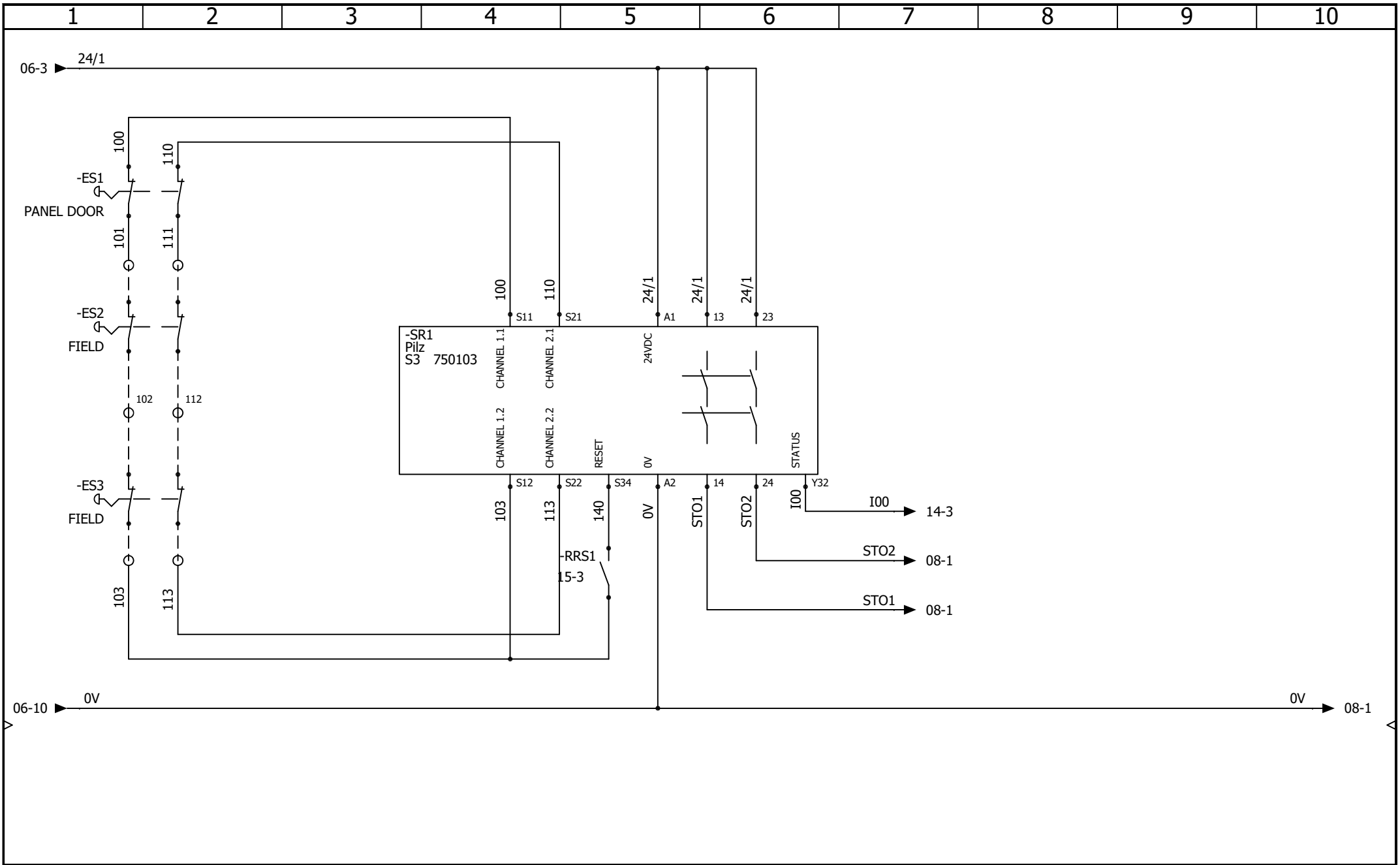
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Main Control Panel

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0	08/07/2024	TW		
REV.	DATE	NAME	CHANGES	SCHEME
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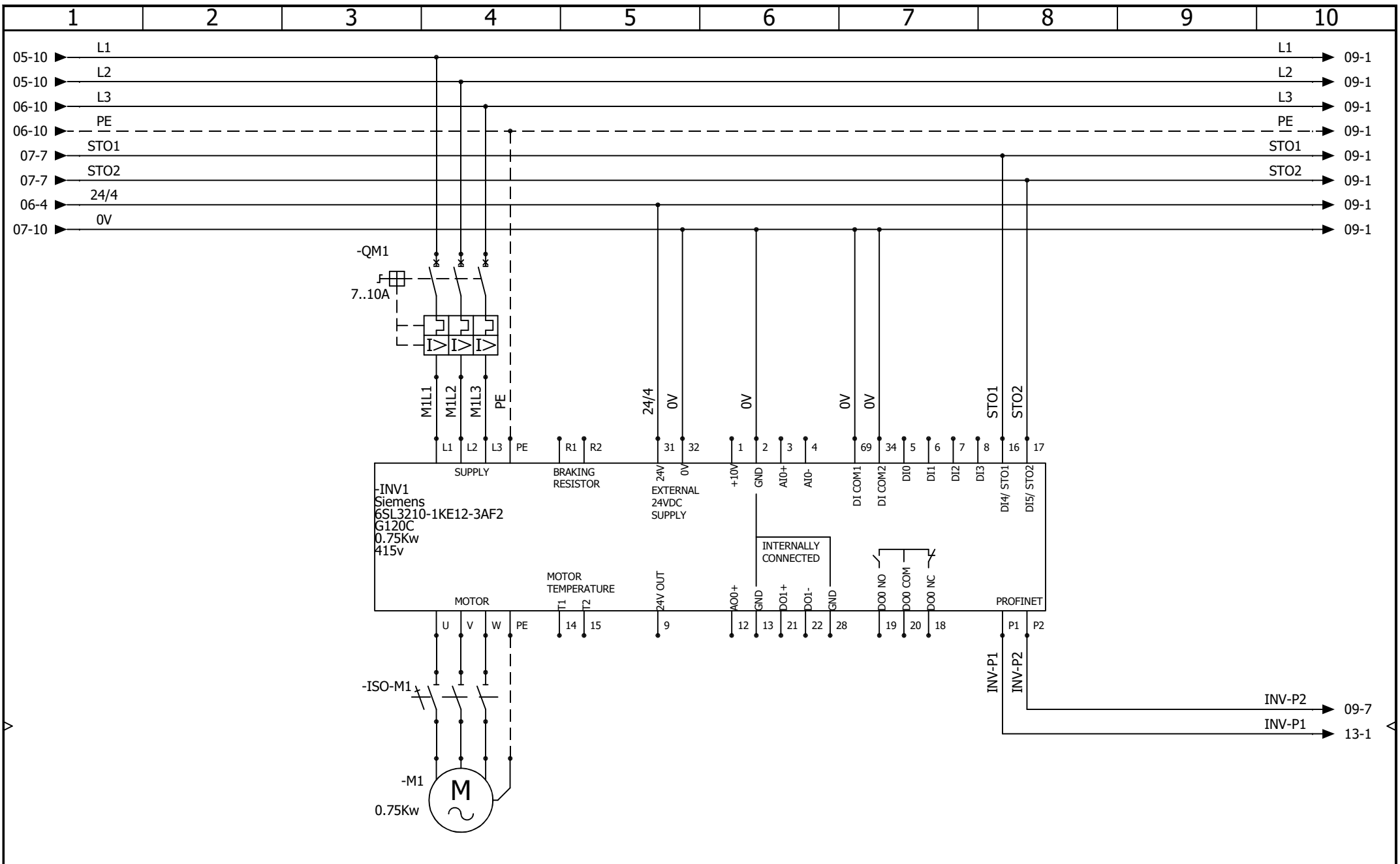
MAIN PANEL EMERGENCY STOP CIRCUIT

CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1

Main Control Panel

REV.	DATE	NAME	CHANGES	REVISION
0	10/07/2024	TW		0
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User data 2				07



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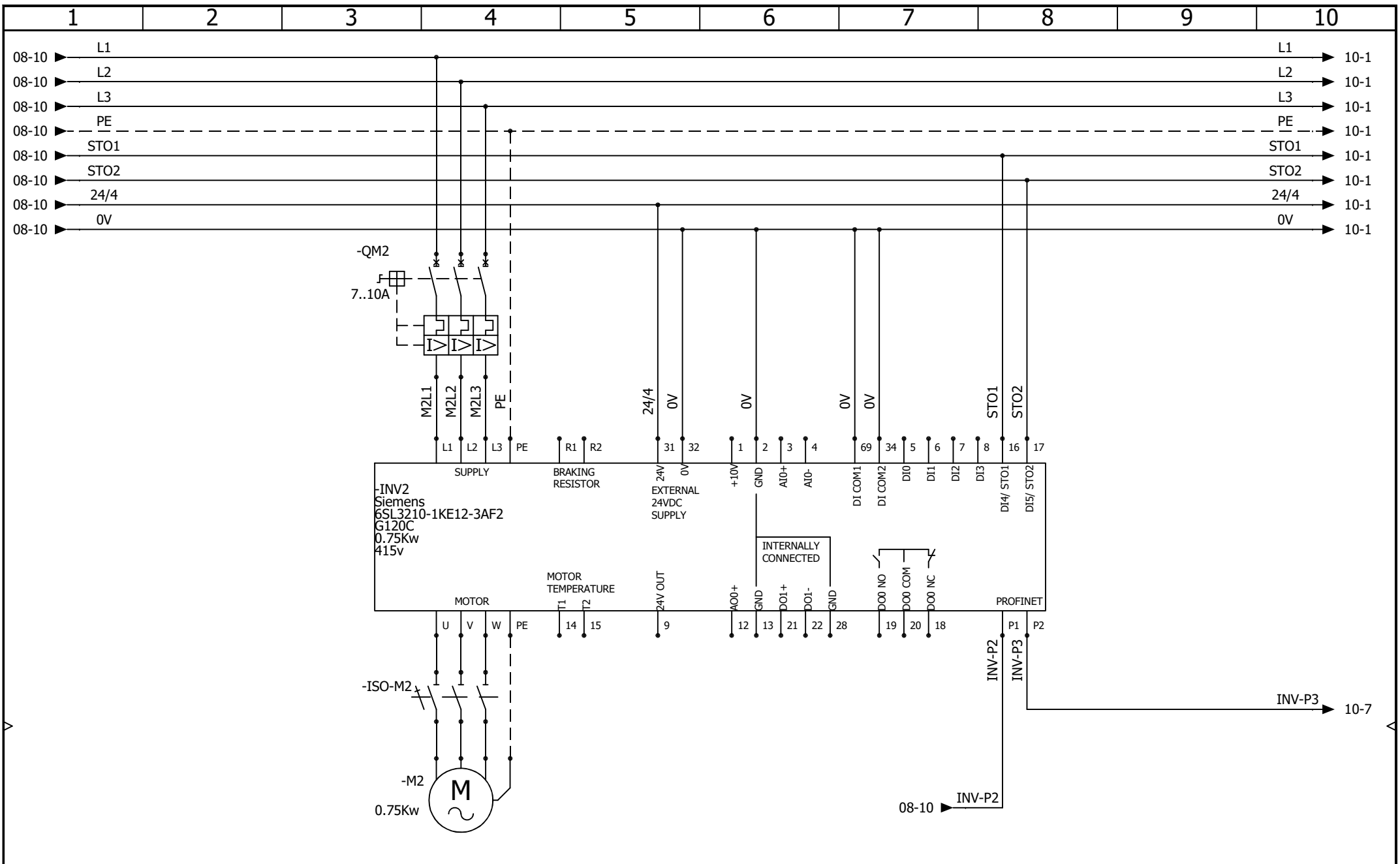
MAIN PANEL INVERTER 1


CONTRACT: WGE - PRINCES - LINE 10 - 2333

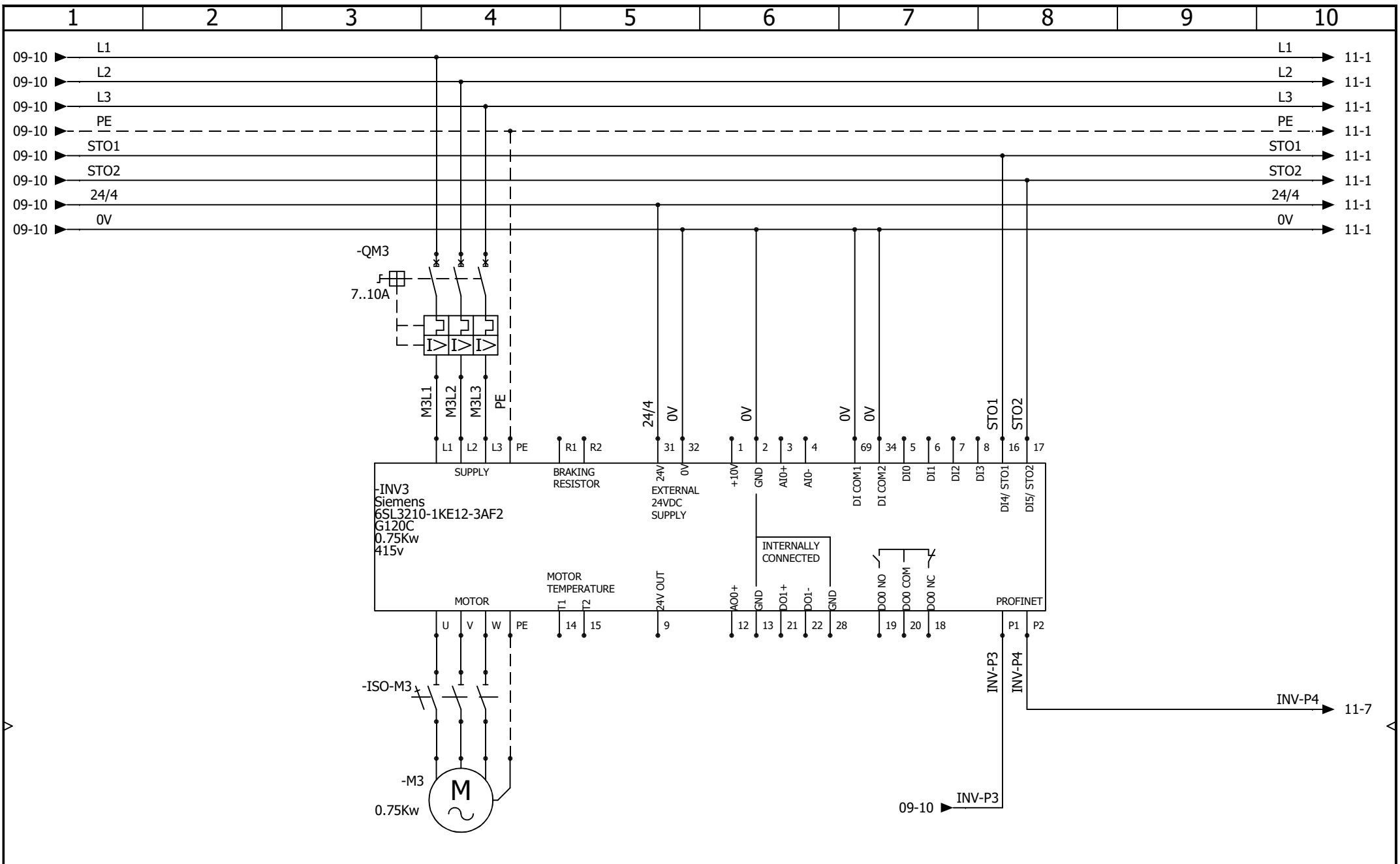
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Main Control Panel

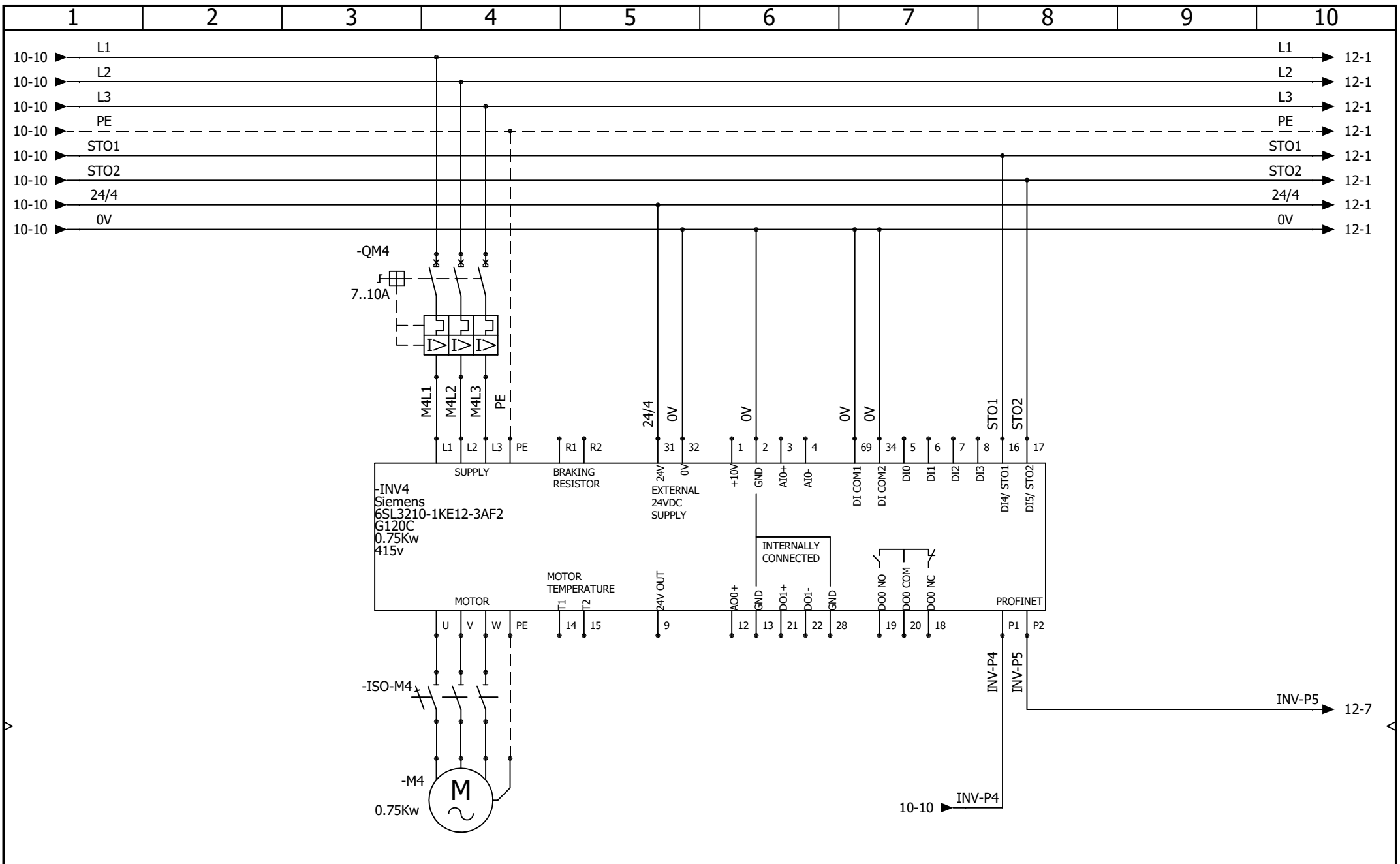
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		REV. DATE NAME CHANGES	SCHEME 09
CONTRACT: WGE - PRINCES - LINE 10 - 2333	LOCATION: +L1 Main Control Panel	User data 1	User data 2



 WILL GUY ELECTRICAL LTD Will Guy Electrical Unit 39 Mereview Ind Est Yaxley Peterborough PE7 3HS	MAIN PANEL INVERTER 3 LOCATION: +L1 Main Control Panel		REV.	DATE	NAME	CHANGES	REVISION	
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Will Guy Electrical
 Unit 39 Mereview Ind Est
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 PE7 3HS

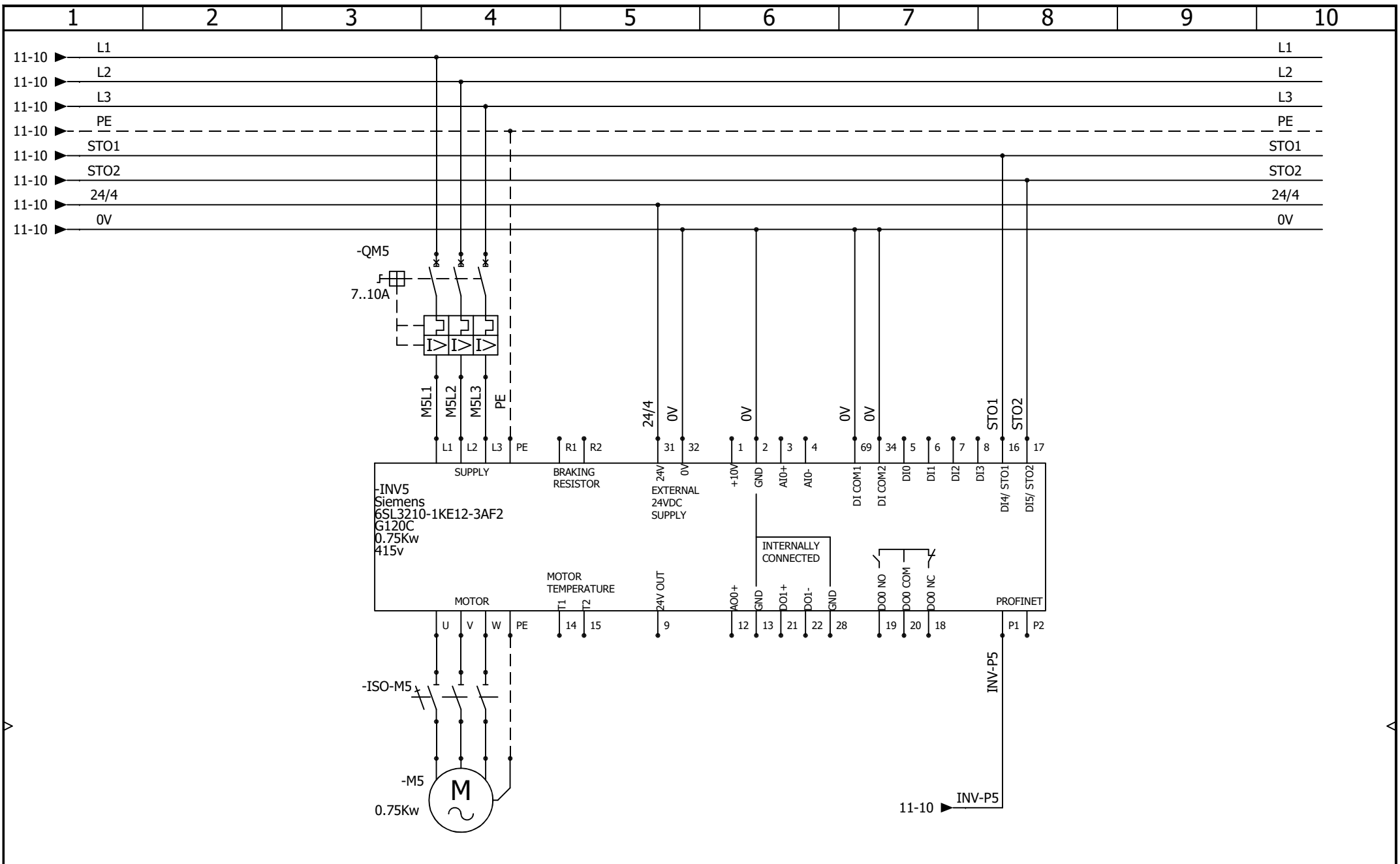
MAIN PANEL INVERTER 4


CONTRACT: WGE - PRINCES - LINE 10 - 2333

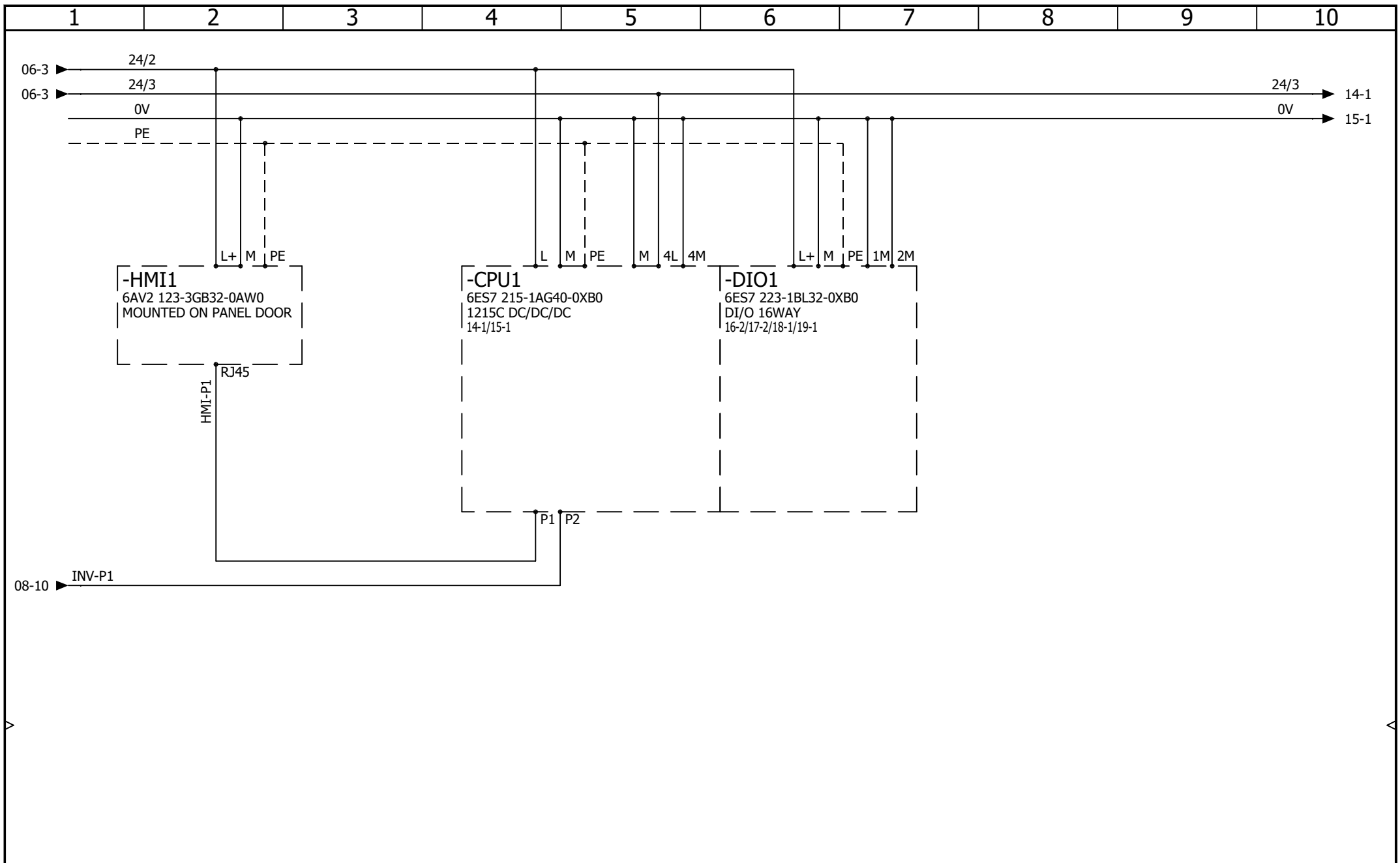
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0	10/07/2024	TW		
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				11



 WILL GUY ELECTRICAL LTD Will Guy Electrical Unit 39 Mereview Ind Est Yaxley Peterborough PE7 3HS	MAIN PANEL INVERTER 5	0 10/07/2024 TW	REVISION 0
		REV. DATE NAME CHANGES	SCHEME 12
CONTRACT: WGE - PRINCES - LINE 10 - 2333	LOCATION: +L1	Main Control Panel	User data 1 User data 2



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MAIN PANEL PLC LAYOUT AND HMI

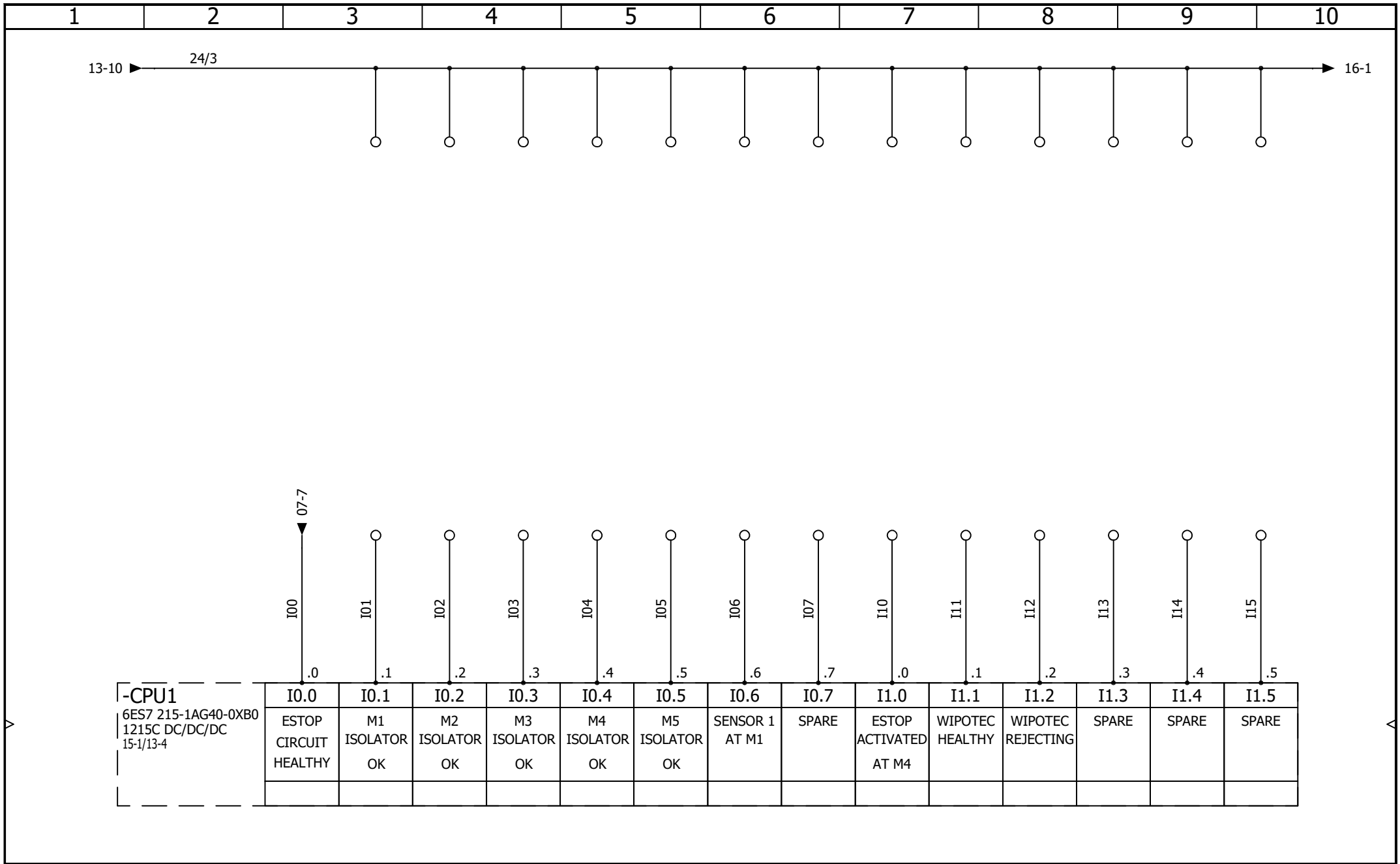
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LOCATION: +L1


Main Control Panel

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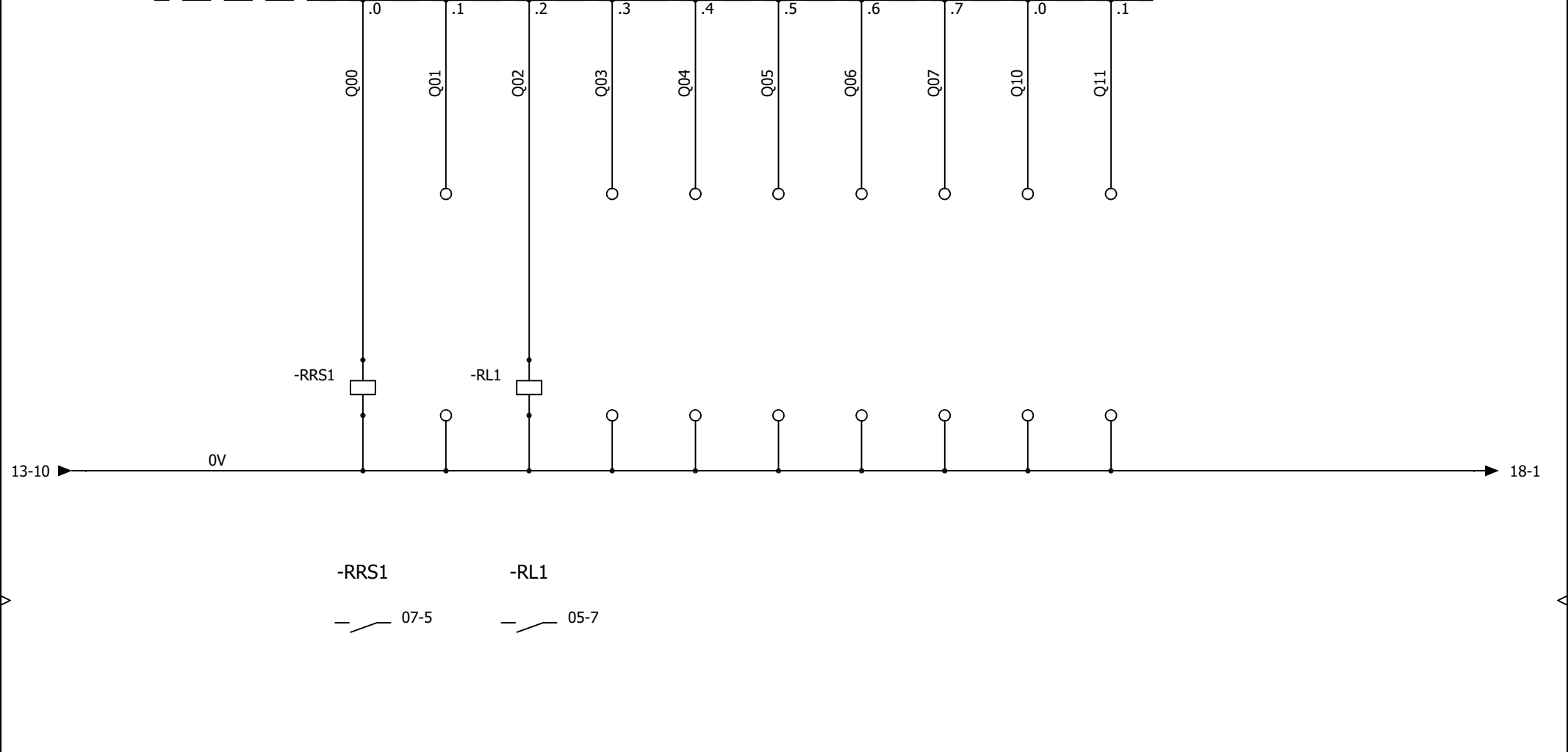
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-CPU1 6ES7 215-1AG40-0XB0 1215C DC/DC/DC 15-1/13-4	I0.0	I0.1	I0.2	I0.3	I0.4	I0.5	I0.6	I0.7	I1.0	I1.1	I1.2	I1.3	I1.4	I1.5
	ESTOP CIRCUIT HEALTHY	M1 ISOLATOR OK	M2 ISOLATOR OK	M3 ISOLATOR OK	M4 ISOLATOR OK	M5 ISOLATOR OK	SENSOR 1 AT M1	SPARE	ESTOP ACTIVATED AT M4	WIPOTEC HEALTHY	WIPOTEC REJECTING	SPARE	SPARE	SPARE

 WILL GUY ELECTRICAL LTD Will Guy Electrical Unit 39 Mereview Ind Est Yaxley Peterborough PE7 3HS	MAIN PANEL CPU INPUTS								REVISION
									0
	CONTRACT: WGE - PRINCES - LINE 10 - 2333	LOCATION: +L1	Main Control Panel	REV. 0 DATE 10/07/2024 NAME TW	CHANGES User data 1 User data 2	SCHEME 14			

-CPU1 6ES7 215-1AG40-0XB0 1215C DC/DC/DC 14-1/13-4	ESTOP RESET	SPARE	LIGHTS ON	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE
	Q0.0	Q0.1	Q0.2	Q0.3	Q0.4	Q0.5	Q0.6	Q0.7	Q1.0	Q1.1
	.0	.1	.2	.3	.4	.5	.6	.7	.0	.1



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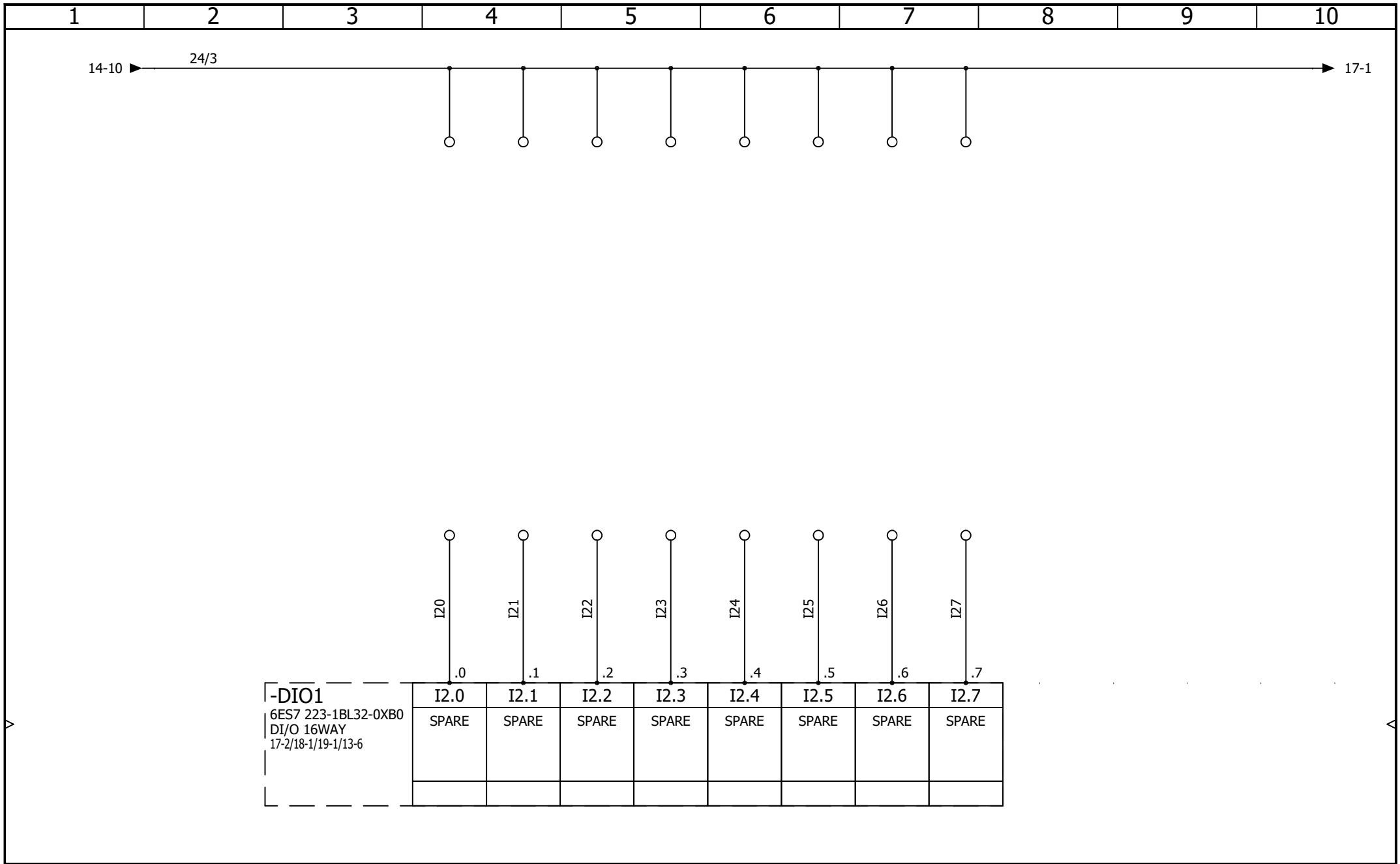
MAIN PANEL
CPU OUTPUTS

				REVISION
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0	10/07/2024	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	15

CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1

Main Control Panel



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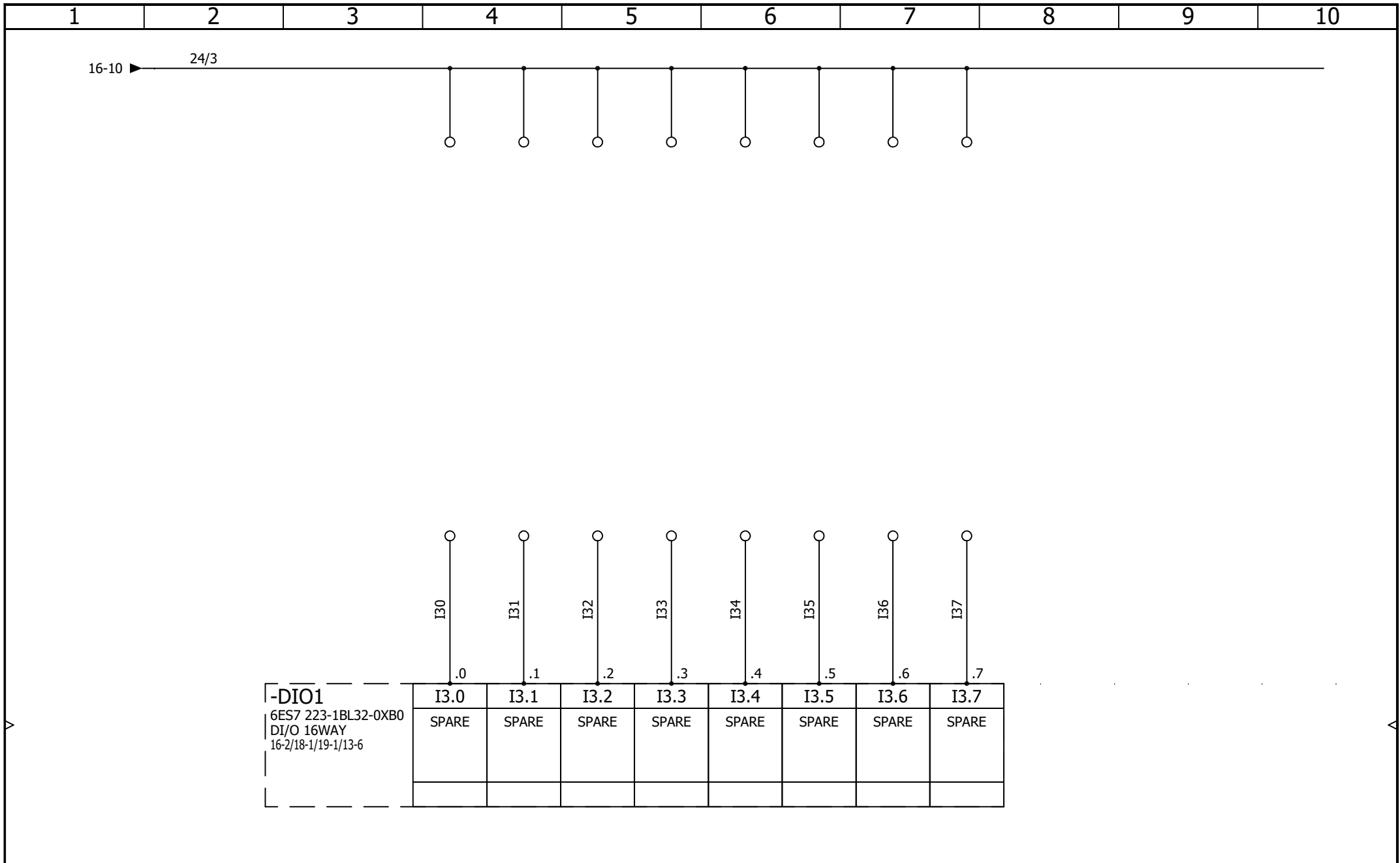
MAIN PANEL
DIO1 - DIGITAL INPUTS a


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0	10/07/2024	TW		SCHEME
REV.	DATE	NAME	CHANGES	
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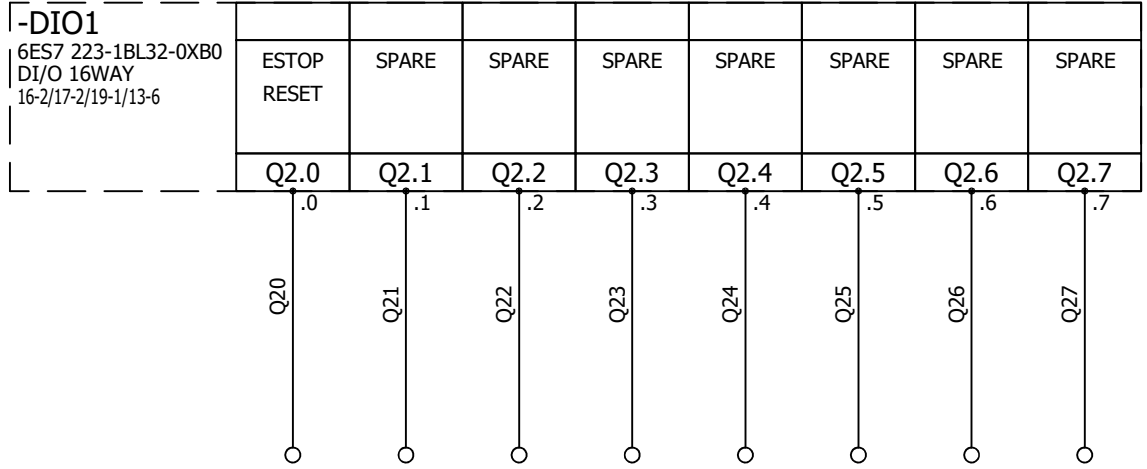
CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1

Main Control Panel



 WILL GUY ELECTRICAL LTD Will Guy Electrical Unit 39 Mereview Ind Est Yaxley Peterborough PE7 3HS	MAIN PANEL DIO1 - DIGITAL INPUTS b			REVISION		0			
				REV.		DATE	NAME	CHANGES	SCHEME
				0		10/07/2024	TW		17
CONTRACT: WGE - PRINCES - LINE 10 - 2333	LOCATION: +L1	Main Control Panel			User data 1	User data 2			



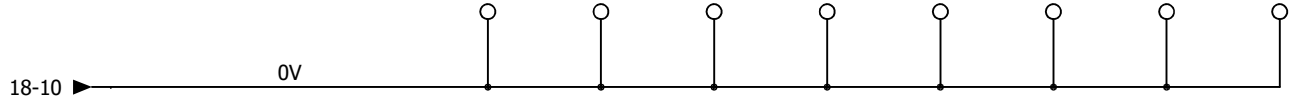
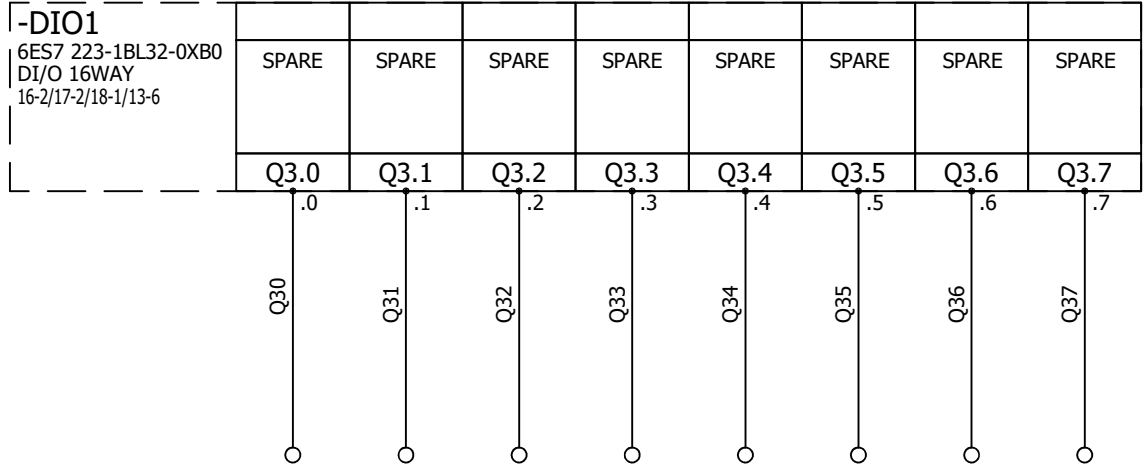
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MAIN PANEL
DIO1 - DIGITAL OUTPUTS a

				REVISION
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0	10/07/2024	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	18

CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1 Main Control Panel



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MAIN PANEL
DIO1 - DIGITAL OUTPUTS b

				REVISION
				0
0	10/07/2024	TW		SCHEME
REV.	DATE	NAME	CHANGES	19
User data 1			User data 2	

CONTRACT: WGE - PRINCES - LINE 10 - 2333

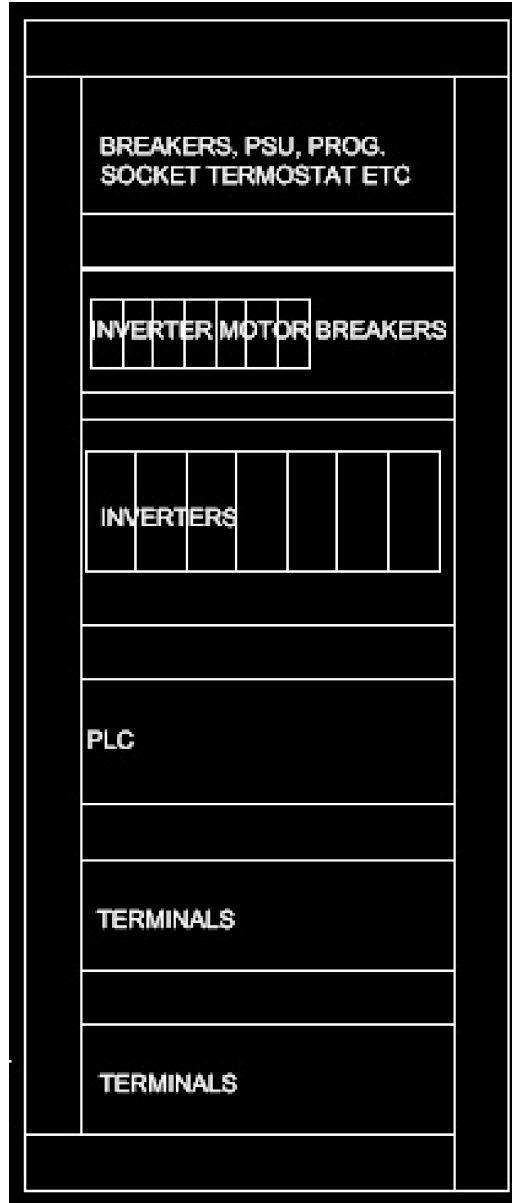
LOCATION: +L1

Main Control Panel

Stainless Steel

Panel Dimensions
800w X 1800h x 500d

With Plinth
800w X 2000h x 500d



Will Guy Electrical
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MAIN PANEL
GA

				REVISION
				0
0	12/07/2024	TW		SCHEME
REV.	DATE	NAME	CHANGES	20
User data 1			User data 2	

CONTRACT: WGE - PRINCES - LINE 10 - 2333

LOCATION: +L1

Main Control Panel