

1

2

3

4

5

6

7

8

9

10

PALACE

NIKE

CONTROL PANEL 4

2395



AAC Theatre Systems
Unit 2, Brunel Business Court
Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
Cover Page

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	01

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3

Control Panel 3

5-Control Panel 4

Drawing	Description	Function	Location	Revision	Date	Created by
01	Cover Page	=F1	+L3	0	27/05/2025	TW
02	Drawings list	=F1	+L3	0	27/05/2025	TW
03	Drawings list	=F1	+L3	0	27/05/2025	TW
04	POWER DISTRIBUTION	=F1	+L4	0	27/05/2025	TW
05	ACTUATOR SUPPLIES	=F1	+L4	0	27/05/2025	TW
06	ACTUATOR CONTROL	=F1	+L4	0	27/05/2025	TW
07	MOTOR 7 AND BRAKE CONTROL	=F1	+L4	0	27/05/2025	TW
08	MOTOR 8 AND BRAKE CONTROL	=F1	+L4	0	27/05/2025	TW
09	PANEL NETWORK	=F1	+L4	0	27/05/2025	TW
10	REMOTE IO LAYOUT	=F1	+L4	0	27/05/2025	TW
11	FAILSAFE DIGITAL INPUTS 1	=F1	+L4	0	27/05/2025	TW
12	FAILSAFE DIGITAL INPUTS 2	=F1	+L4	0	27/05/2025	TW
13	FAILSAFE DIGITAL INPUTS 3	=F1	+L4	0	27/05/2025	TW
14	FAILSAFE DIGITAL OUTPUTS 1.1	=F1	+L4	0	27/05/2025	TW
15	DIGITAL INPUTS 1.1	=F1	+L4	0	27/05/2025	TW
16	DIGITAL INPUTS 1.2	=F1	+L4	0	27/05/2025	TW
17	DIGITAL INPUTS 2.1	=F1	+L4	0	10/06/2025	TW
18	DIGITAL INPUTS 2.2	=F1	+L4	0	10/06/2025	TW
19	DIGITAL OUTPUTS 1.1	=F1	+L4	0	27/05/2025	TW
20	DIGITAL OUTPUTS 1.2	=F1	+L4	0	27/05/2025	TW



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

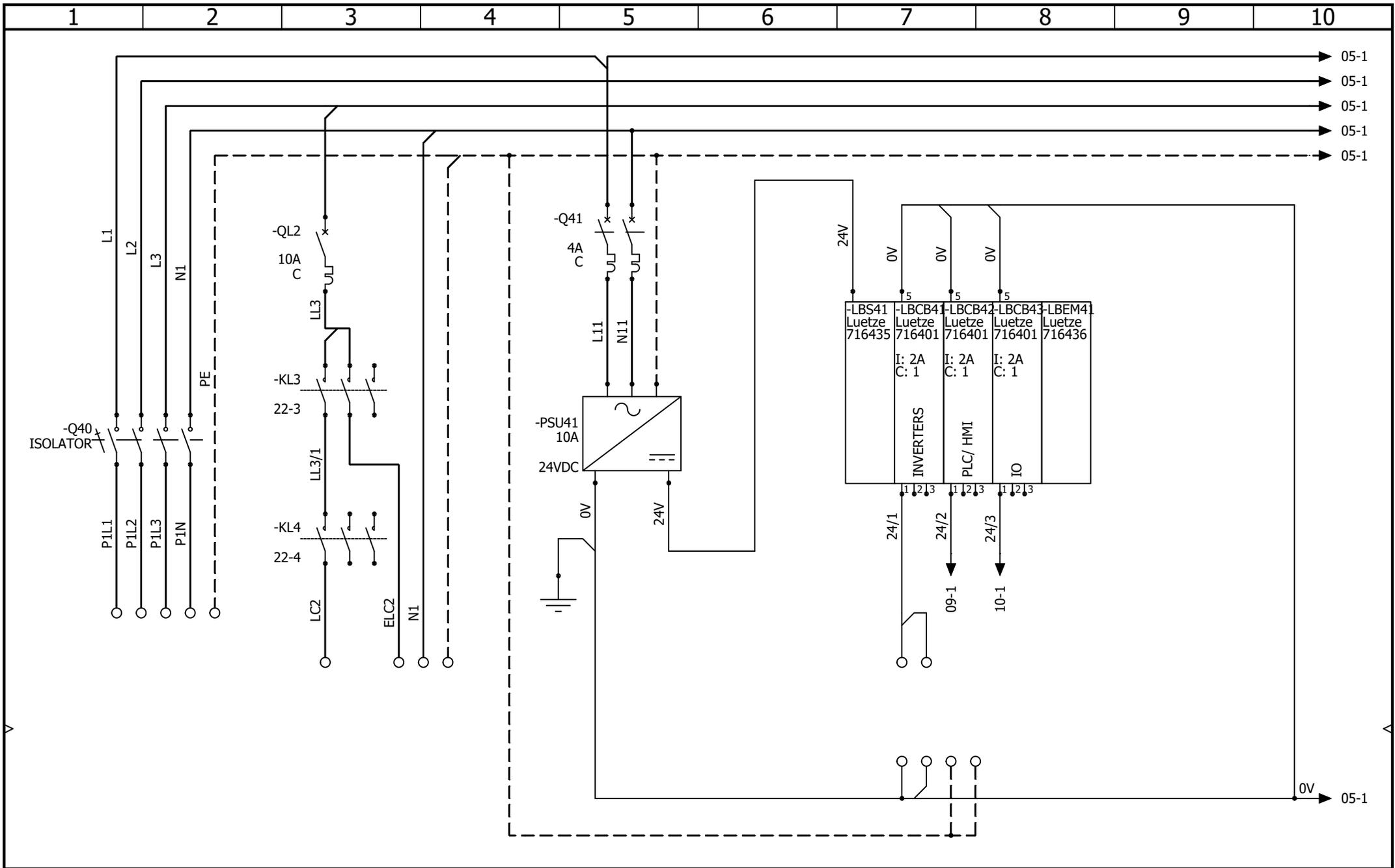
Control Panel 4
 Drawings list

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	02

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3

Control Panel 3



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

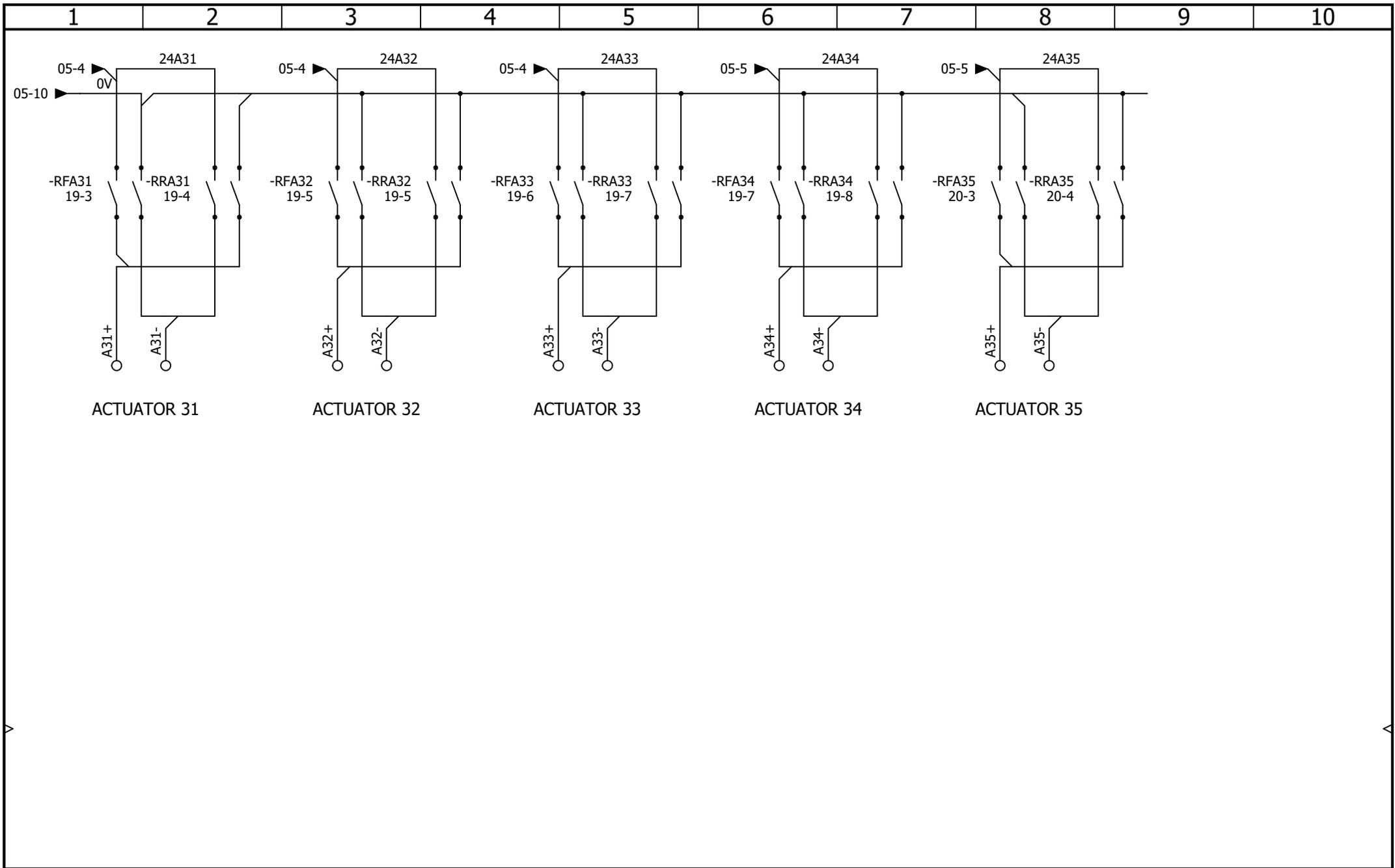
CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4 POWER DISTRIBUTION

Control Panel 4

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	04
User data 1			User data 2	



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

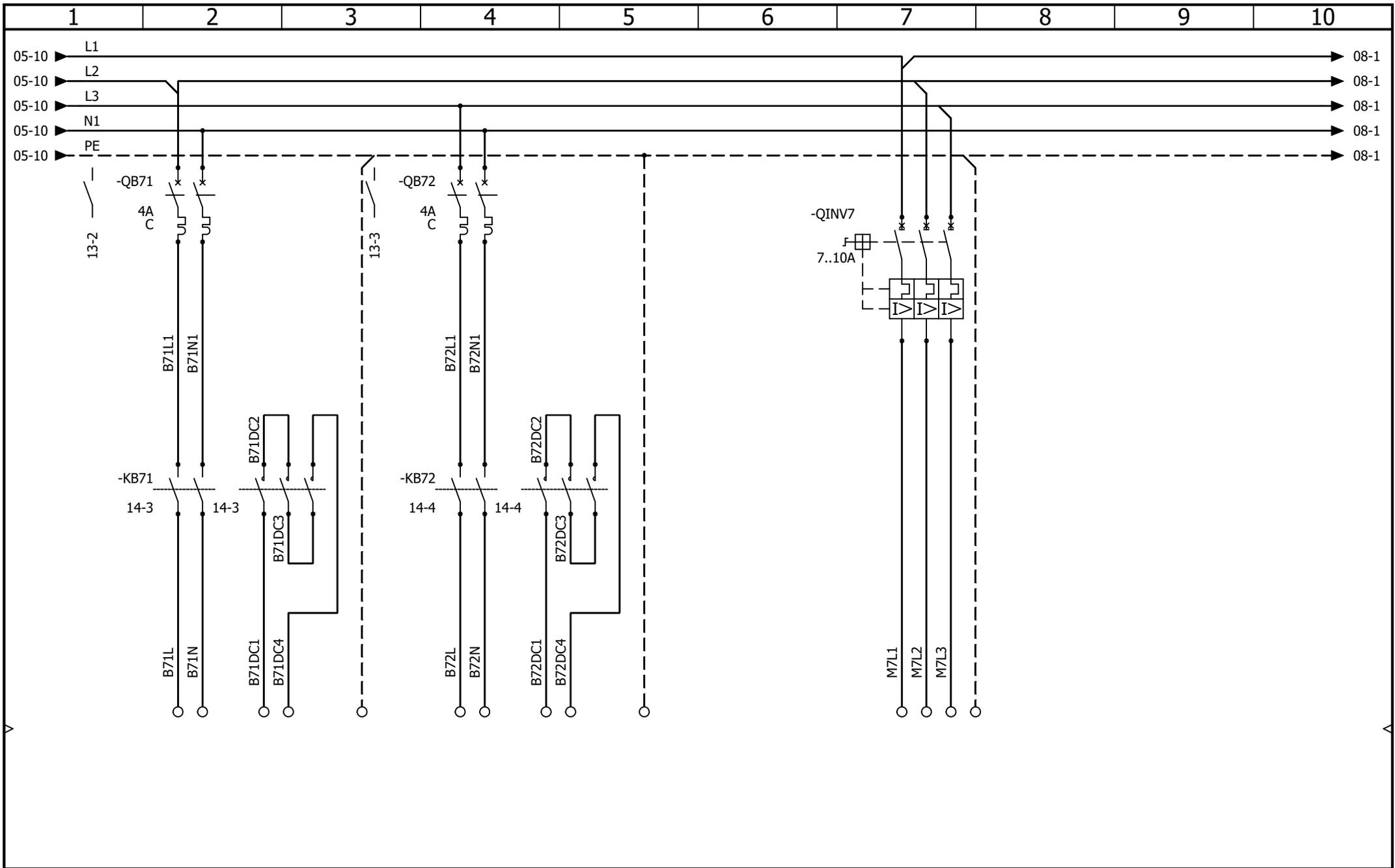
Control Panel 4
ACTUATOR CONTROL

CONTRACT: 2395 - PALACE - NIKE

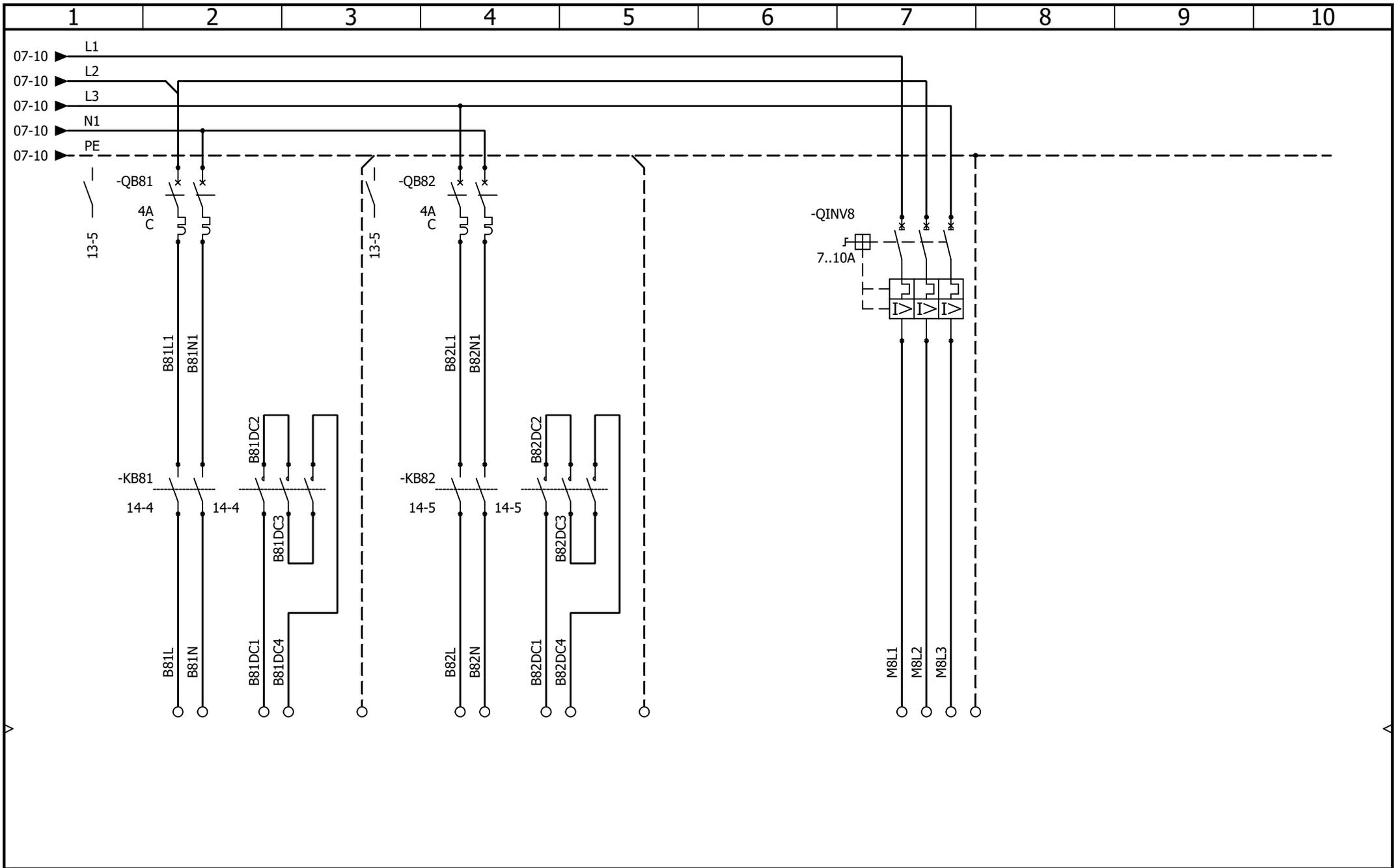
LOCATION: +L4

Control Panel 4

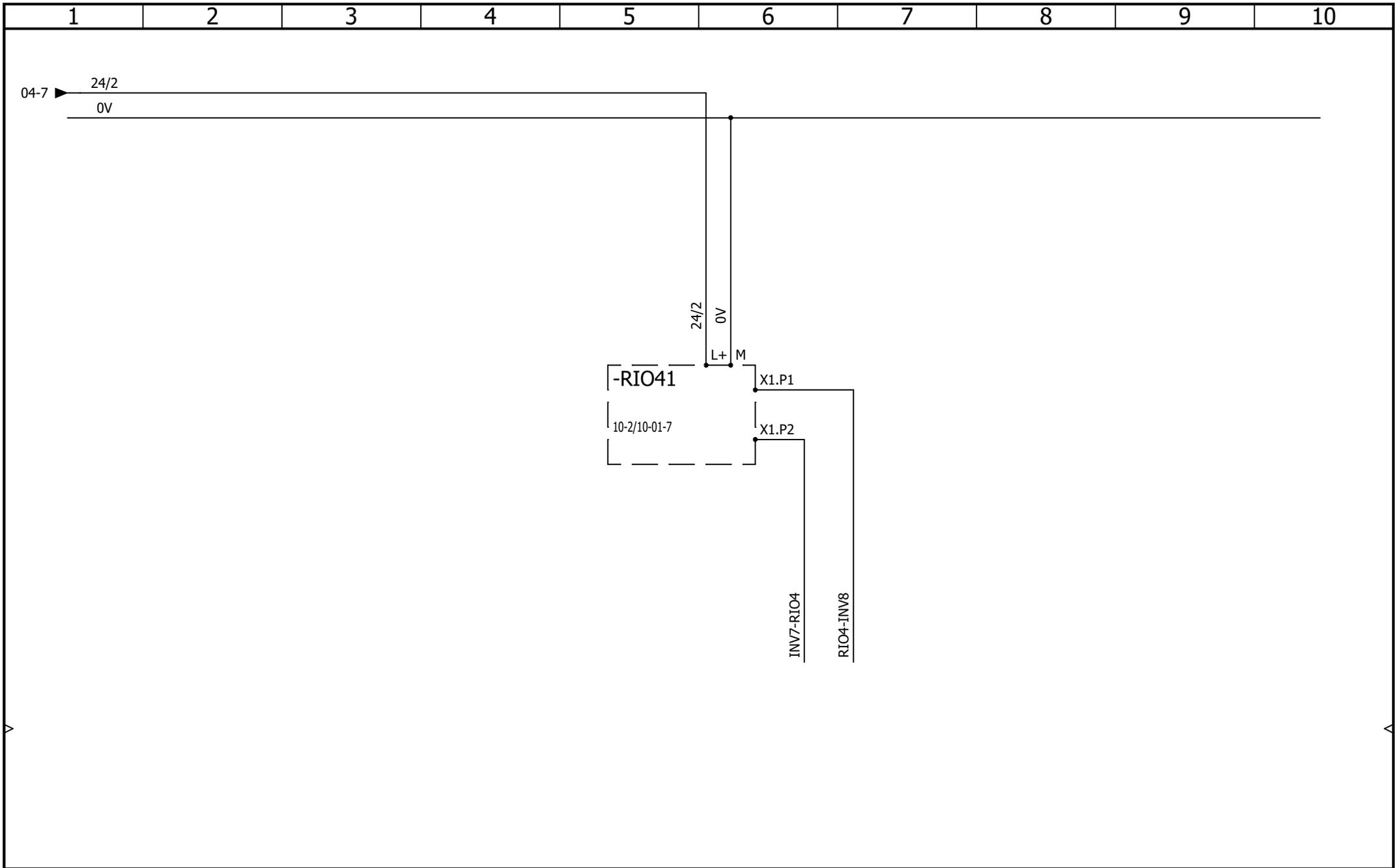
				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				06
User data 1			User data 2	



 AAC Technical Services Ltd Unit 2, Brunel Business Court Brunel Way, Thetford, Norfolk IP24 1HP	Control Panel 4 MOTOR 7 AND BRAKE CONTROL					REVISION	
						0	
			0	27/05/2025	TW		
CONTRACT: 2395 - PALACE - NIKE	LOCATION: +L4	Control Panel 4	REV.	DATE	NAME	CHANGES	SCHEME
			User data 1			User data 2	07



 AAC Technical Services Ltd Unit 2, Brunel Business Court Brunel Way, Thetford, Norfolk IP24 1HP	Control Panel 4 MOTOR 8 AND BRAKE CONTROL			REVISION			
	CONTRACT: 2395 - PALACE - NIKE	LOCATION: +L4	Control Panel 4	0			
				08			
		REV.	DATE	NAME	CHANGES	User data 1	User data 2
		0	27/05/2025	TW			



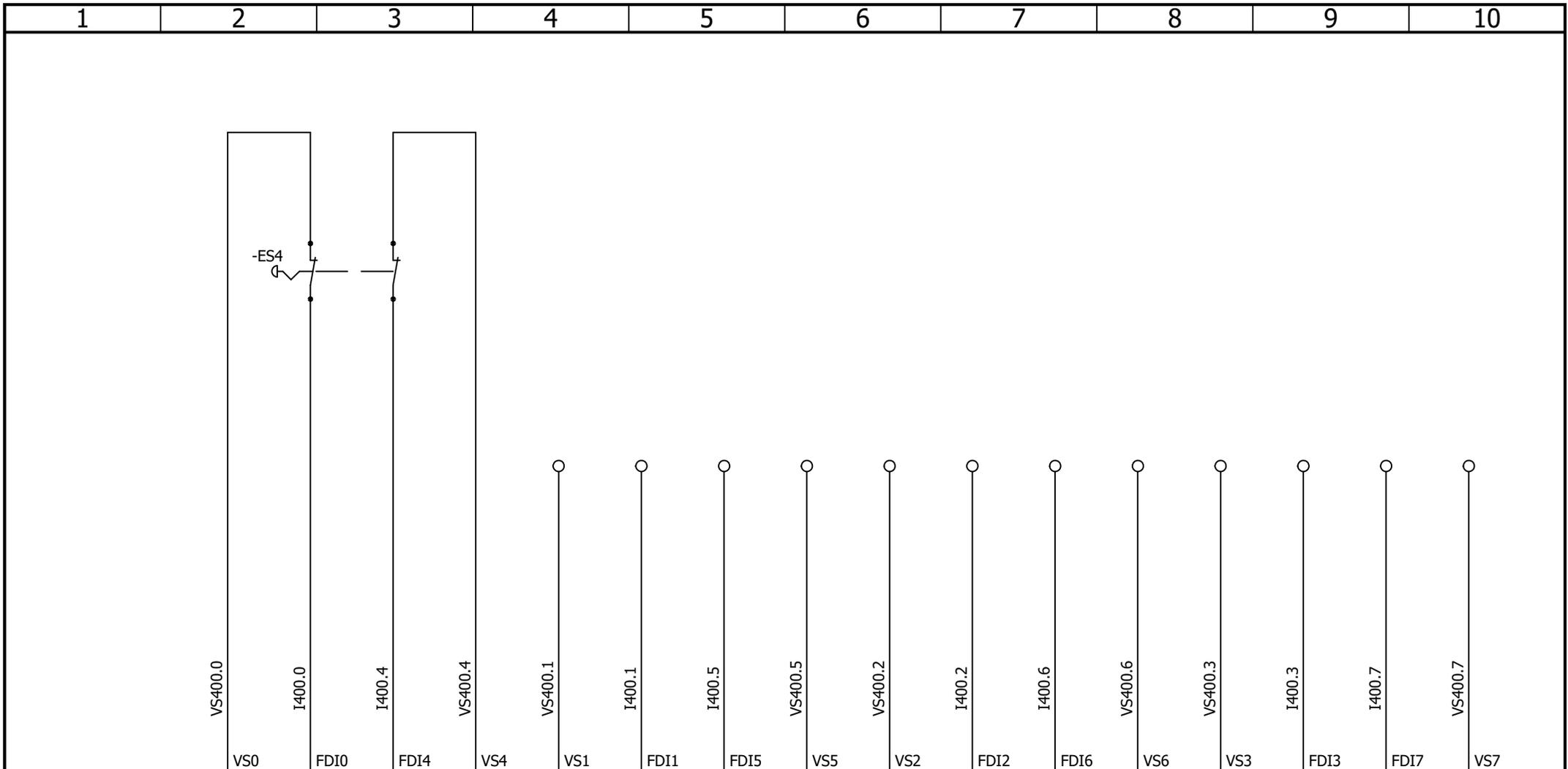
AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
PANEL NETWORK

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4 Control Panel 4

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	09



-FDI41 6ES7 136-6BA01-0CA0 8WAY 10-3	VS0	I400.0	I400.4	VS4	VS1	I400.1	I400.5	VS5	VS2	I400.2	I400.6	VS6	VS3	I400.3	I400.7	VS7
		PANEL EMERGENCY STOP CHANNEL 1	PANEL EMERGENCY STOP CHANNEL 2			CONTROL STATION EMERGENCY STOP CHANNEL 1	CONTROL STATION EMERGENCY STOP CHANNEL 2				SPARE CHANNEL 1	SPARE CHANNEL 2			SPARE CHANNEL 1	SPARE CHANNEL 2



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

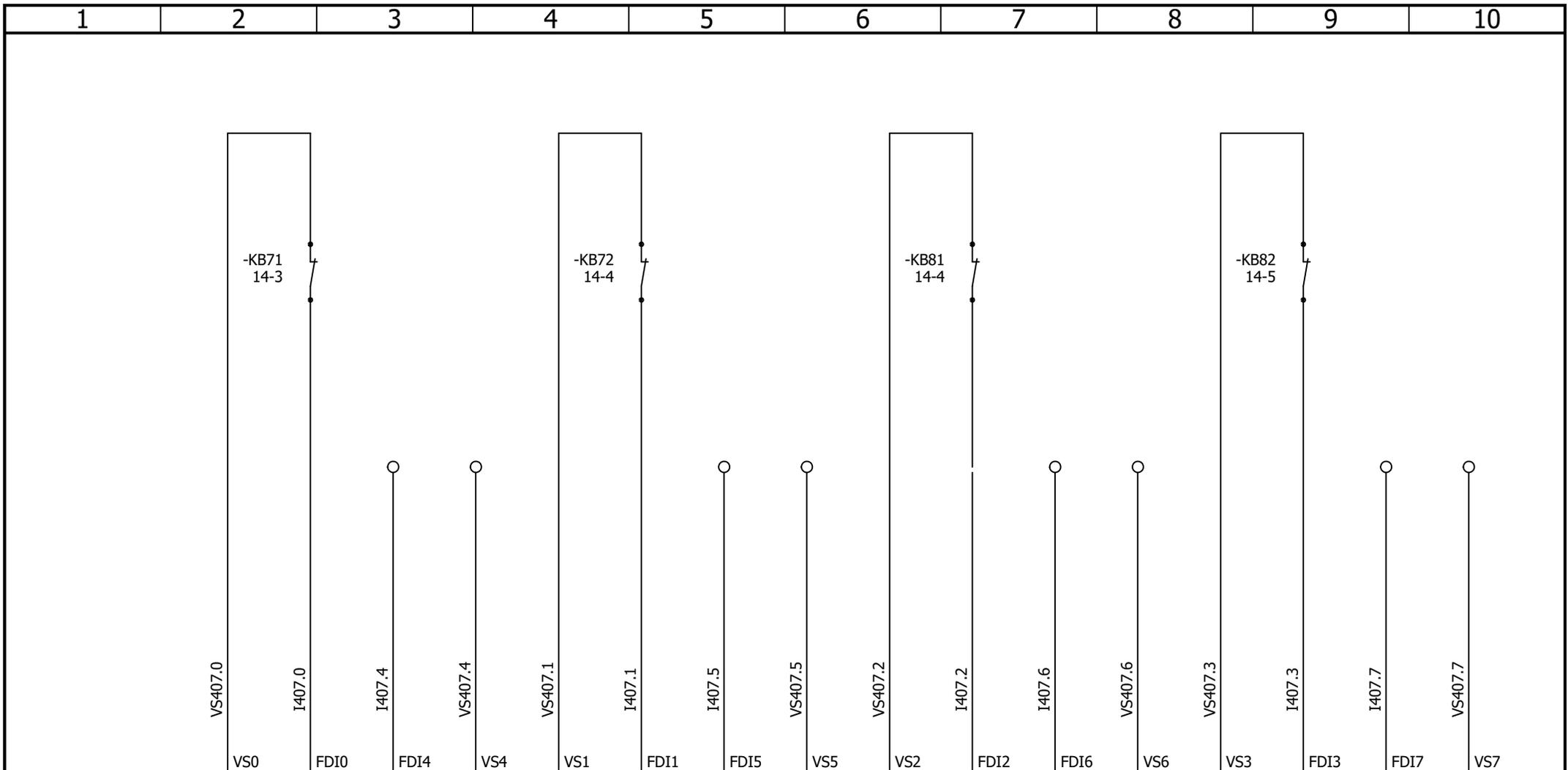
Control Panel 4
FAILSAFE DIGITAL INPUTS 1

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	11



-FDI42 6ES7 136-6BA01-0CA0 8WAY 10-4	VS0	I407.0	I407.4	VS4	VS1	I407.1	I407.5	VS5	VS2	I407.2	I407.6	VS6	VS3	I407.3	I407.7	VS7
		MOTOR 7 BRAKE 1 CONTACTOR FEEDBACK	MOTOR 7 BRAKE 1 FEEDBACK			MOTOR 7 BRAKE 2 CONTACTOR FEEDBACK	MOTOR 7 BRAKE 2 FEEDBACK			MOTOR 8 BRAKE 1 CONTACTOR FEEDBACK	MOTOR 8 BRAKE 1 FEEDBACK			MOTOR 8 BRAKE 2 CONTACTOR FEEDBACK	MOTOR 8 BRAKE 2 FEEDBACK	



AAC Theatre Systems
Unit 2, Brunel Business Court
Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
FAILSAFE DIGITAL INPUTS 2

CONTRACT: 2395 - PALACE - NIKE

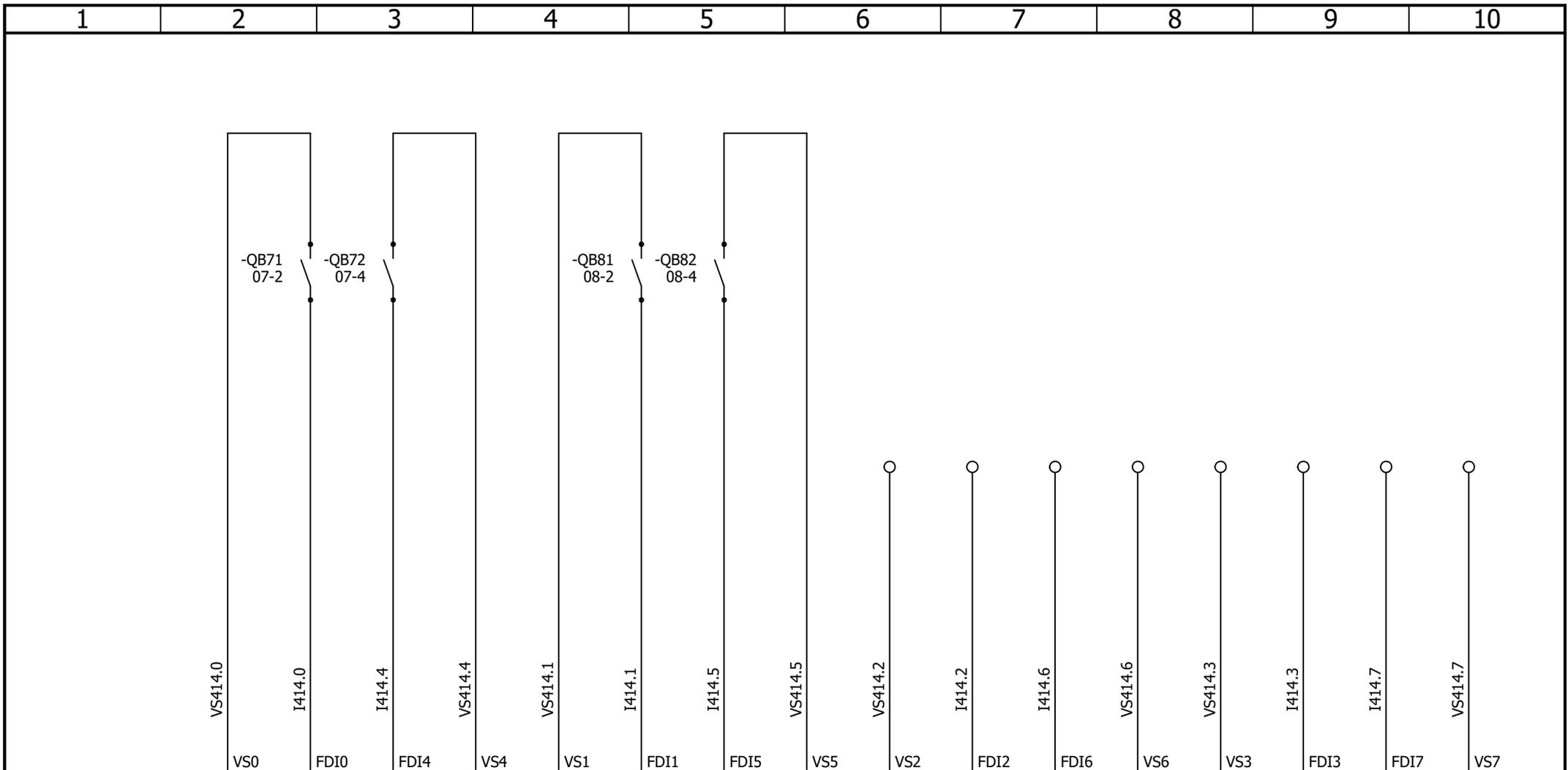
LOCATION: +L4

Control Panel 4

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				12

User data 1

User data 2



-FDI43 6ES7 136-6BA01-0CA0 8WAY 10-4	VS0	I414.0	I414.4	VS4	VS1	I414.1	I414.5	VS5	VS2	I414.2	I414.6	VS6	VS3	I414.3	I414.7	VS7
		MOTOR 7 BRAKE 1 CIRCUIT BREAKER AUX	MOTOR 7 BRAKE 2 CIRCUIT BREAKER AUX			MOTOR 8 BRAKE 1 CIRCUIT BREAKER AUX	MOTOR 8 BRAKE 2 CIRCUIT BREAKER AUX			SERAPID 7 ULTIMATE BOTTOM LIMIT	SERAPID 7 ULTIMATE TOP LIMIT			SERAPID 8 ULTIMATE BOTTOM LIMIT	SERAPID 8 ULTIMATE TOP LIMIT	



AAC Theatre Systems
Unit 2, Brunel Business Court
Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
FAILSAFE DIGITAL INPUTS 3

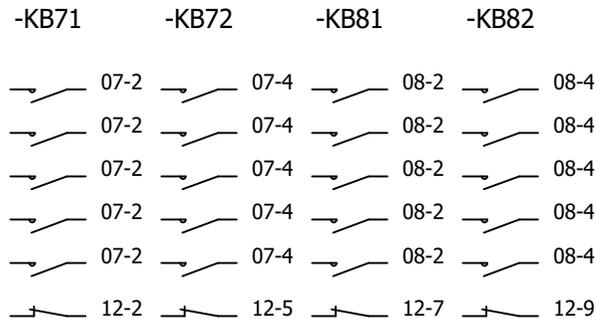
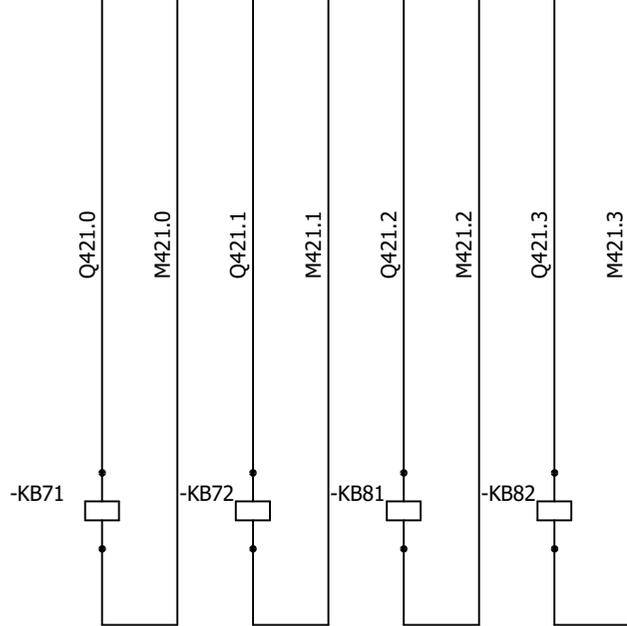
CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	13

-FDQ41 6ES7 136-6BA01-0CA0 4WAY 10-5	MOTOR 7 BRAKE 1 CONTACTOR	MOTOR 7 BRAKE 2 CONTACTOR	MOTOR 8 BRAKE 1 CONTACTOR	MOTOR 8 BRAKE 2 CONTACTOR
	Q421.0	Q421.1	Q421.2	Q421.3



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

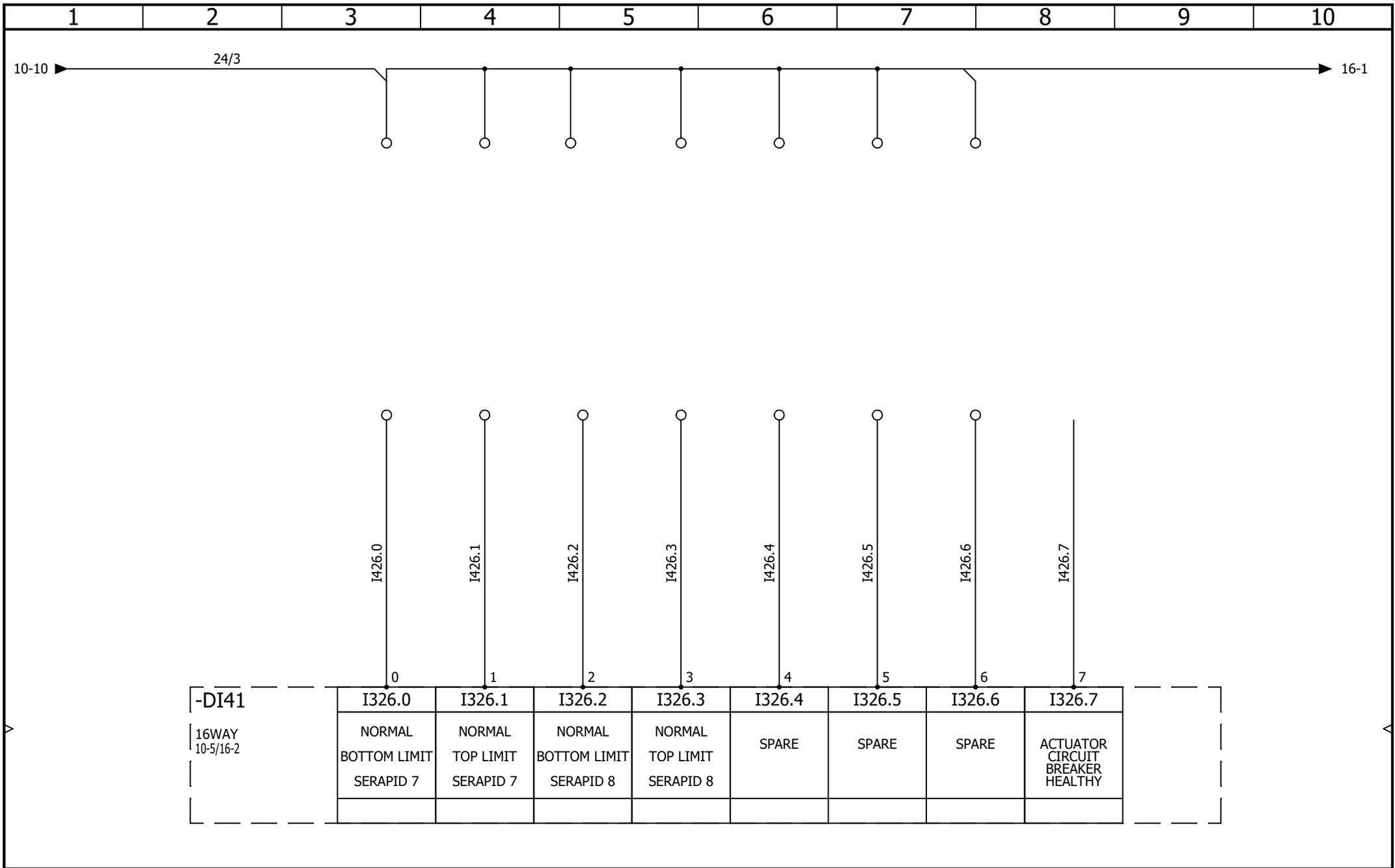
Control Panel 4
FAILSAFE DIGITAL OUTPUTS 1.1

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	14



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

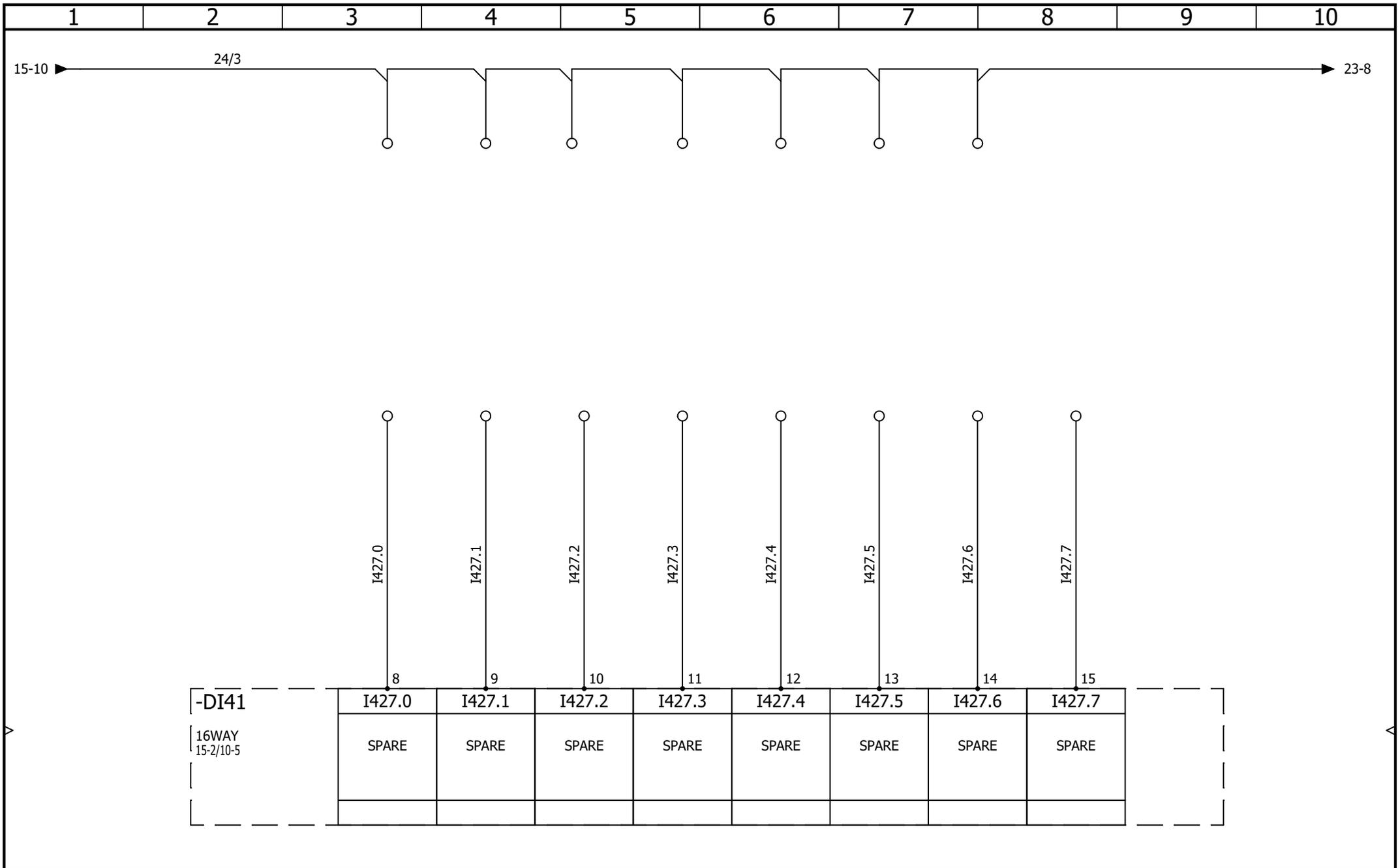
Control Panel 4
DIGITAL INPUTS 1.1

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	
				SCHEME
				15



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

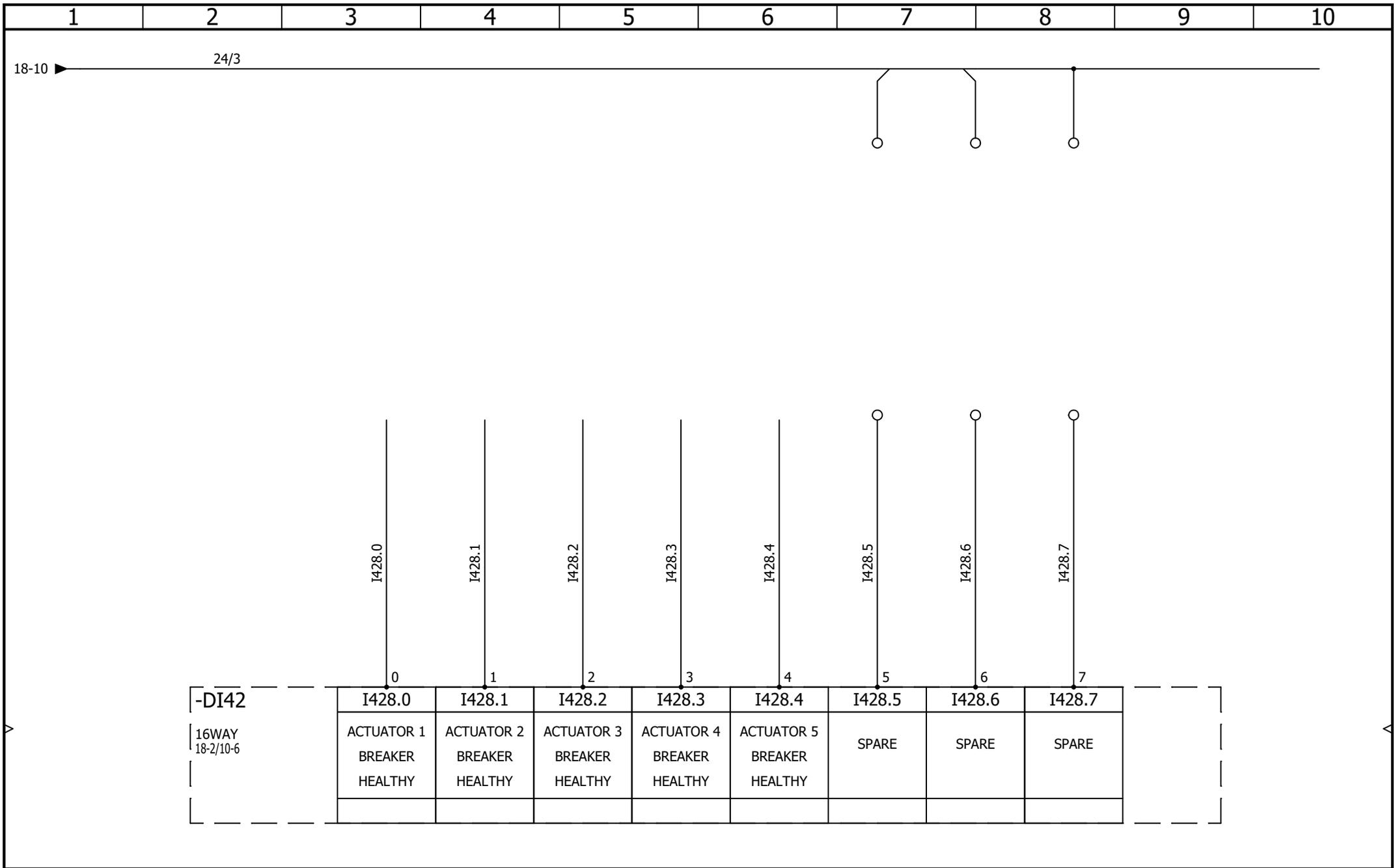
Control Panel 4
DIGITAL INPUTS 1.2

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	16

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

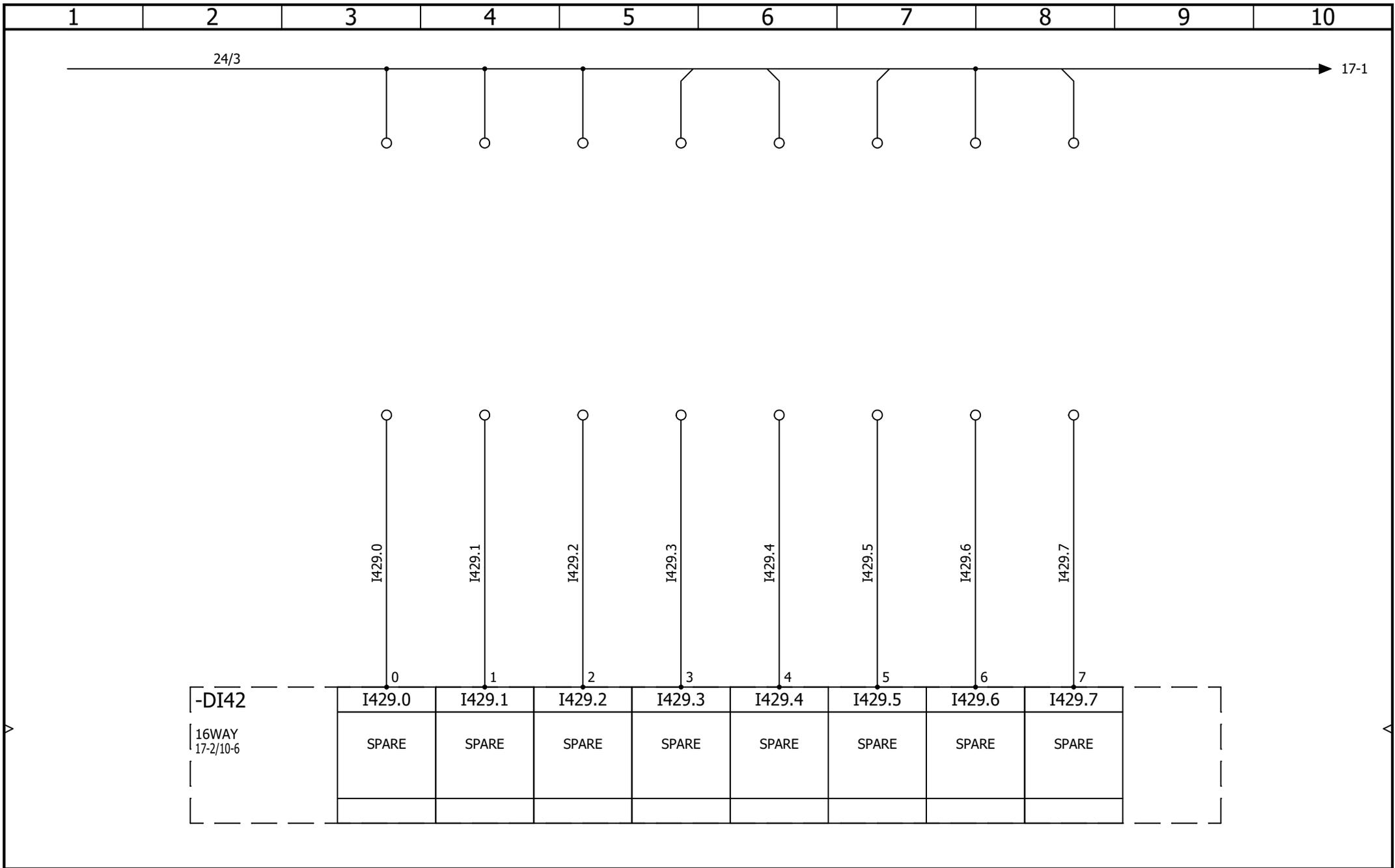
Control Panel 4
DIGITAL INPUTS 2.1

				REVISION
				0
0	10/06/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
User data 1			User data 2	17

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
DIGITAL INPUTS 2.2

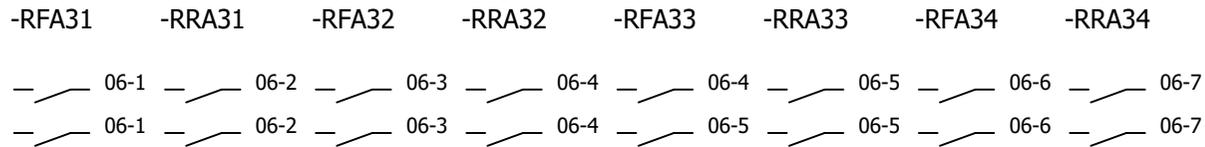
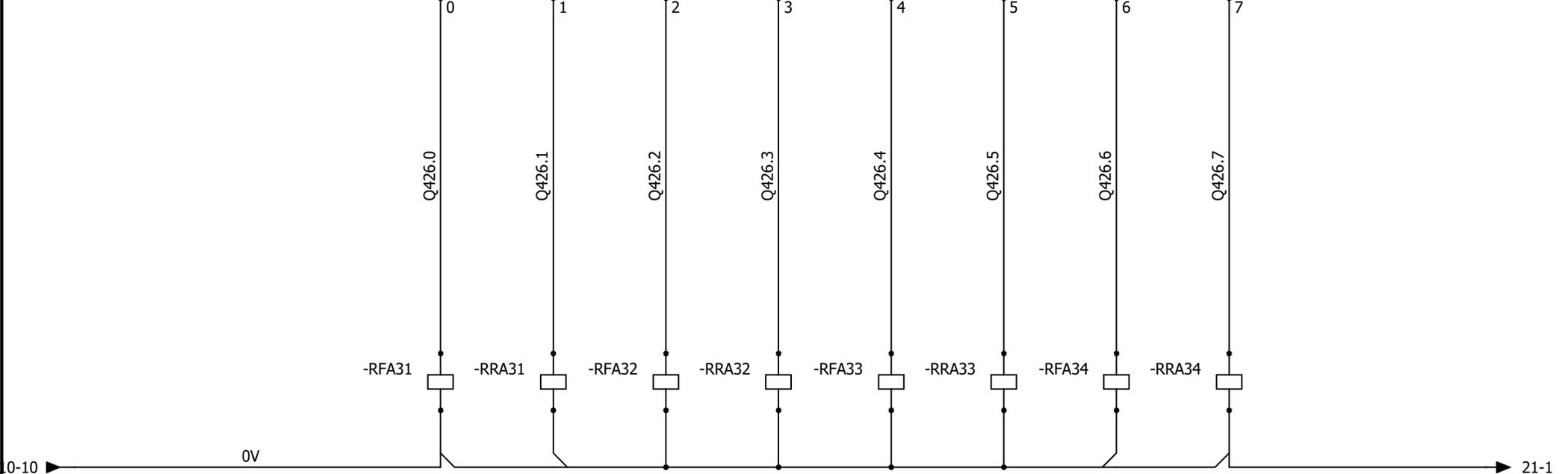
				REVISION
				0
0	10/06/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				18
User data 1			User data 2	

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4

-DQ41							
16WAY 10-6/20-2							
ACTUATOR 31 FORWARD	ACTUATOR 31 REVERSE	ACTUATOR 32 FORWARD	ACTUATOR 32 REVERSE	ACTUATOR 33 FORWARD	ACTUATOR 33 REVERSE	ACTUATOR 34 FORWARD	ACTUATOR 34 REVERSE
Q426.0	Q426.1	Q426.2	Q426.3	Q426.4	Q426.5	Q426.6	Q426.7



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
DIGITAL OUTPUTS 1.1

CONTRACT: 2395 - PALACE - NIKE

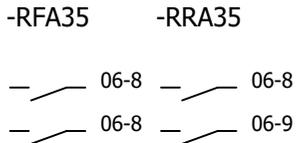
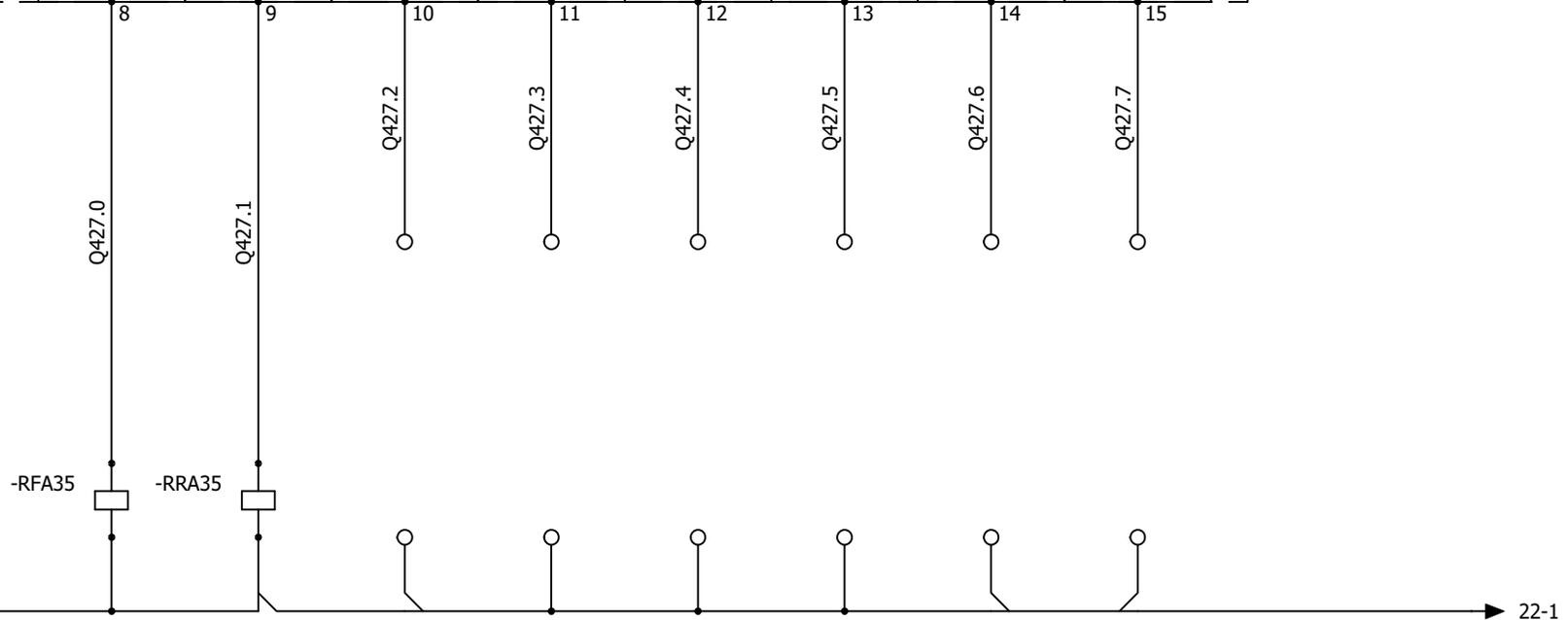
LOCATION: +L4

Control Panel 4

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	
User data 1			User data 2

REVISION
0
 SCHEME
19

-DQ41									
16WAY 10-6/19-2		ACTUATOR 35 FORWARD	ACTUATOR 35 REVERSE	SPARE	SPARE	SPARE	SPARE	SPARE	
		Q427.0	Q427.1	Q427.2	Q427.3	Q427.4	Q427.5	Q427.6	Q427.7



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

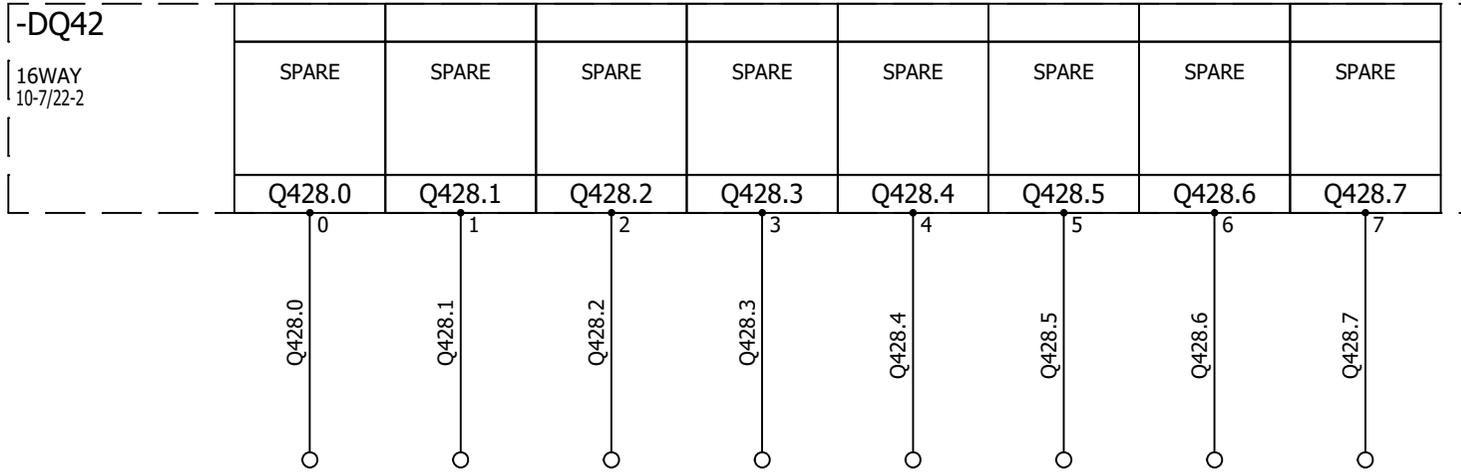
Control Panel 4
DIGITAL OUTPUTS 1.2

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	20

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4



9-10 0V 23-8



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

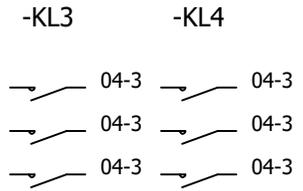
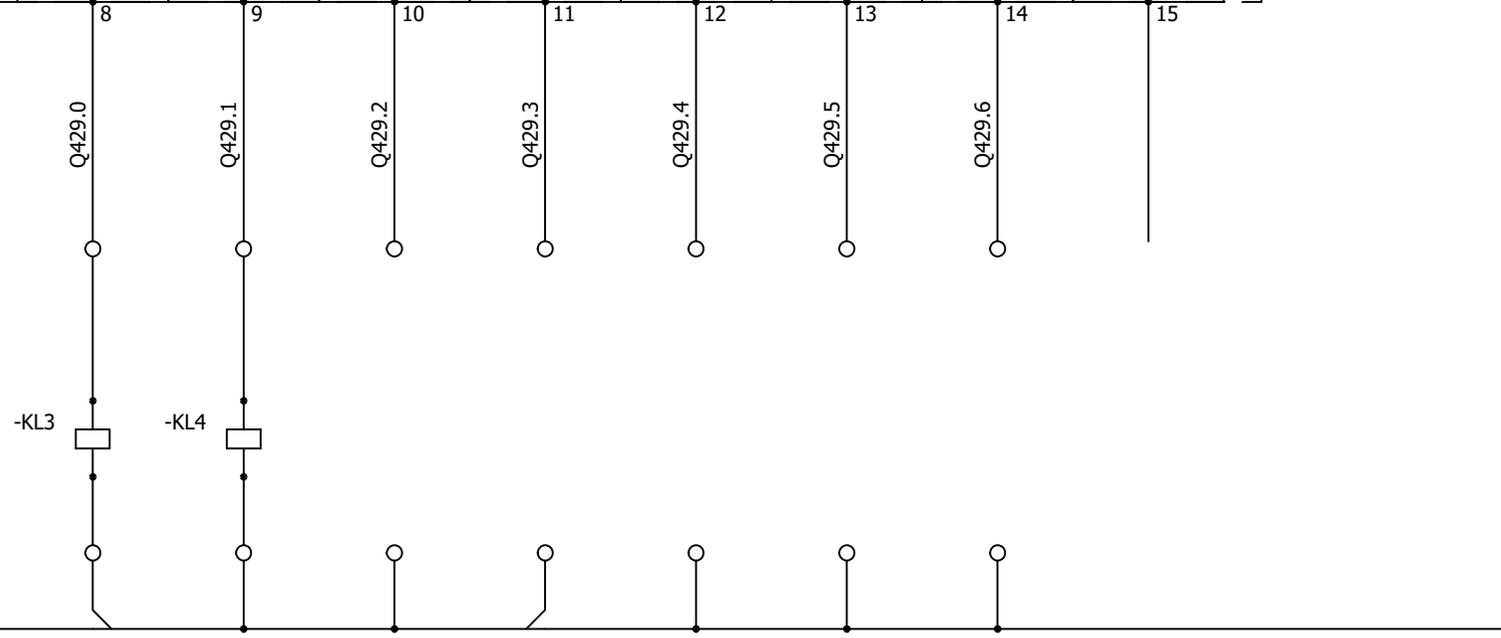
Control Panel 4
DIGITAL OUTPUTS 2.1

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	21

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4 Control Panel 4

-DQ42 16WAY 10-7/21-2	LIGHTING FEED CONTACTOR	LIGHTS ON/ OFF CONTACTOR	SPARE	SPARE	SPARE	SPARE	SPARE	ACTUATOR CIRCUIT BREAKER RESET
	Q429.0	Q429.1	Q429.2	Q429.3	Q429.4	Q429.5	Q429.6	Q429.7
	8	9	10	11	12	13	14	15



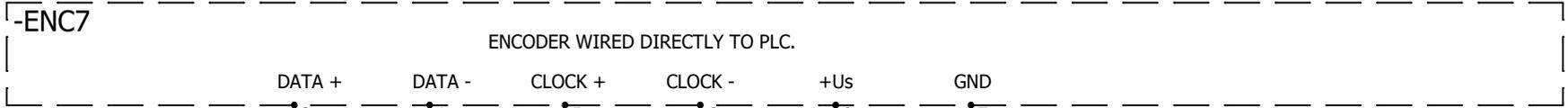
AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
DIGITAL OUTPUTS 2.2

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4 Control Panel 4

				REVISION
				0
0	27/05/2025	TW		SCHEME
REV.	DATE	NAME	CHANGES	
User data 1			User data 2	22



SSI
 SINGLE TURN: 12 BIT (4096)
 MULTI TURN: 18 BIT (262144)

INC
 2048 PPR

MOTOR: ? RPM
 GEARBOX RATIO: ?
 BEVEL GEAR: ?
 LINKLIFT 50: ?MM PER ROTATION

TIA
 LOADGEAR
 MOTOR REVS: ?
 LOAD REVS: ?
 LEADSCREW PITCH: ?MM/ROTATION

ENCODER GEAR
 MOUNTING: ON MOTOR SHAFT
 MOTOR REVS: 1
 ENCODER REVS: 1

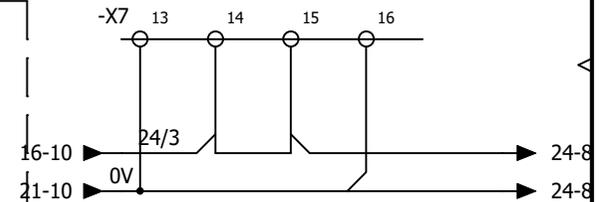
MAX SPEED: ?MM/S

DATA + 2 DATA - 1 CLOCK + 5 CLOCK - 6 +Us 8 GND 7

WHITE BROWN YELLOW PURPLE RED BLUE

-TM41

10-7	D+	D-	C+	C-	24VDC	M
	DATA +	DATA -	CLOCK +	CLOCK -	24VDC	M



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
ENCODER INPUT 7

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				23

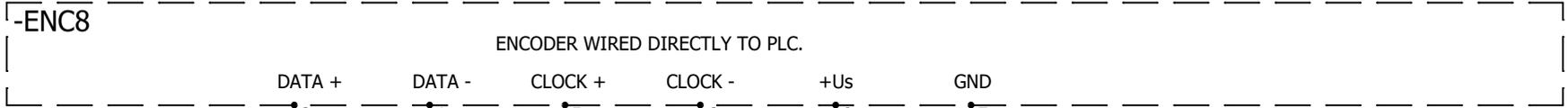
CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4

User data 1

User data 2



SSI
 SINGLE TURN: 12 BIT (4096)
 MULTI TURN: 18 BIT (262144)

INC
 2048 PPR

MOTOR: ? RPM
 GEARBOX RATIO: ?
 BEVEL GEAR: ?
 LINKLIFT 50: ?MM PER ROTATION

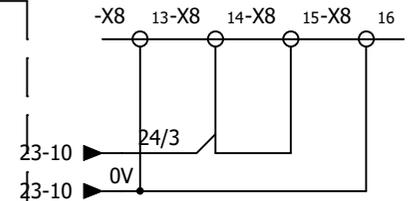
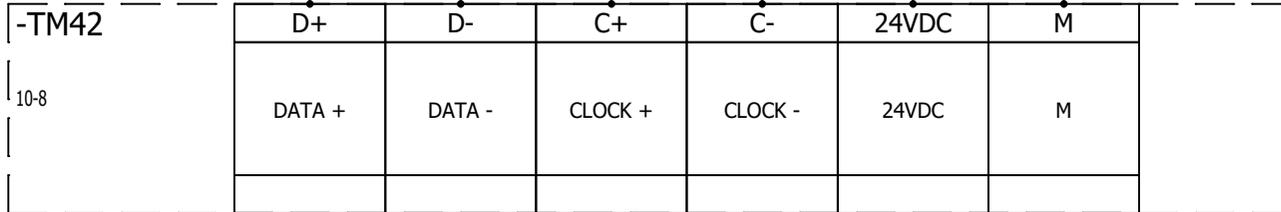
TIA
 LOADGEAR
 MOTOR REVS: ?
 LOAD REVS: ?
 LEADSCREW PITCH: ?MM/ROTATION

ENCODER GEAR
 MOUNTING: ON MOTOR SHAFT
 MOTOR REVS: 1
 ENCODER REVS: 1

MAX SPEED: ?MM/S

DATA + 2 DATA - 1 CLOCK + 5 CLOCK - 6 +Us 8 GND 7

WHITE BROWN YELLOW PURPLE RED BLUE



AAC Theatre Systems
 Unit 2, Brunel Business Court
 Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 4
ENCODER INPUT 8

				REVISION
				0
0	27/05/2025	TW		
REV.	DATE	NAME	CHANGES	SCHEME
				24
User data 1			User data 2	

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L4

Control Panel 4