1	2	3	4	5	6	7	8	9	10

PALACE

NIKE

CONTROL PANEL 3

2395

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

Control Panel 3
Cover Page

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

REVISION 0

SCHEME 01

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3

User data 1

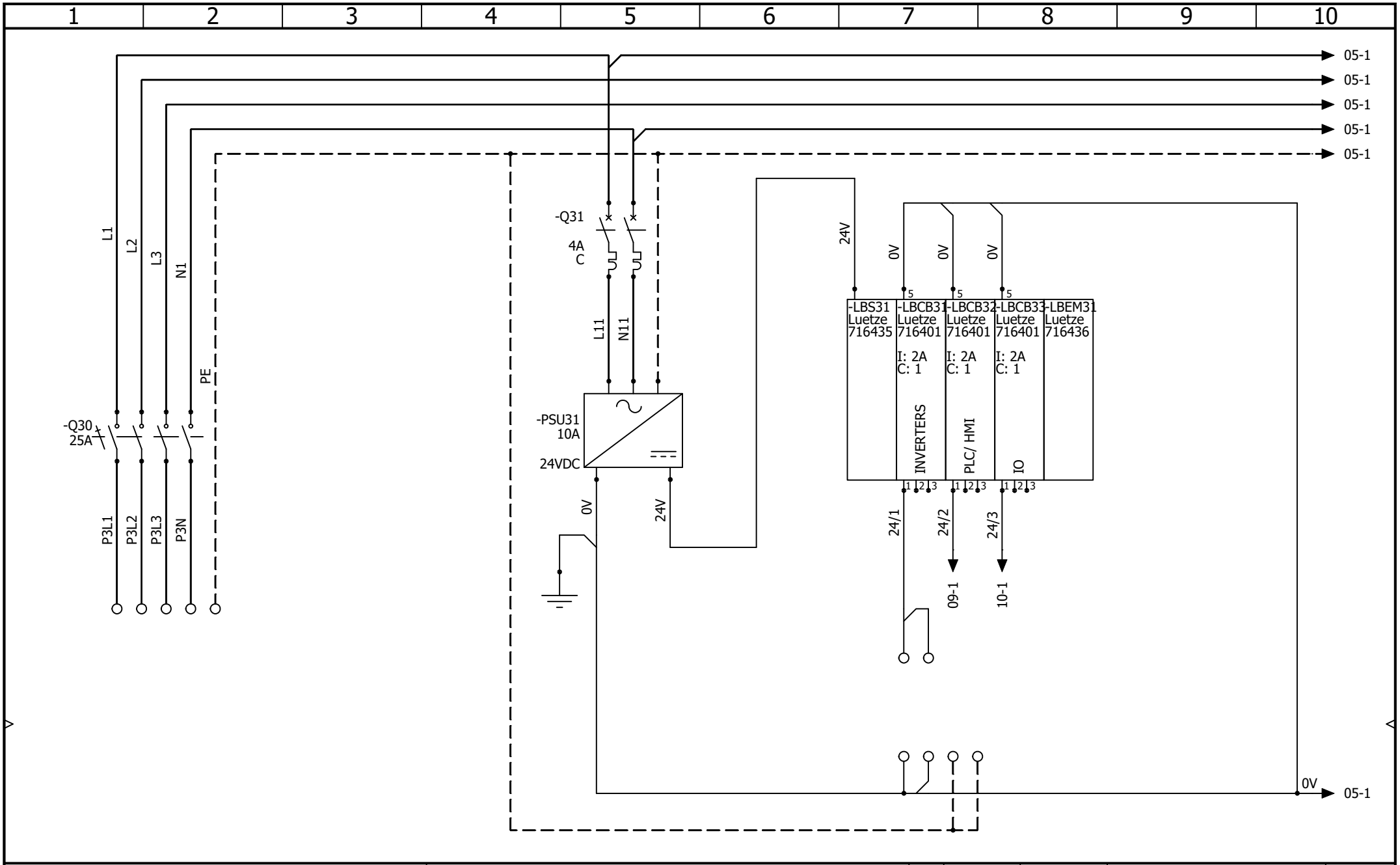
User data 2

4-Control Panel 3

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	+L3	0	27/05/2025	TW
05	ACTUATOR SUPPLIES	=F1	+L3	0	27/05/2025	TW
06	ACTUATOR CONTROL	=F1	+L3	0	27/05/2025	TW
07	MOTOR 5 AND BRAKE CONTROL	=F1	+L3	0	27/05/2025	TW
08	MOTOR 6 AND BRAKE CONTROL	=F1	+L3	0	27/05/2025	TW
09	PANEL NETWORK	=F1	+L3	0	27/05/2025	TW
10	REMOTE IO LAYOUT	=F1	+L3	0	27/05/2025	TW
11	FAILSAFE DIGITAL INPUTS 1	=F1	+L3	0	27/05/2025	TW
12	FAILSAFE DIGITAL INPUTS 2	=F1	+L3	0	27/05/2025	TW
13	FAILSAFE DIGITAL INPUTS 3	=F1	+L3	0	27/05/2025	TW
14	FAILSAFE DIGTIAL OUTPUTS 1.1	=F1	+L3	0	27/05/2025	TW
15	DIGITAL INPUTS 1.1	=F1	+L3	0	27/05/2025	TW
16	DIGITAL INPUTS 1.2	=F1	+L3	0	27/05/2025	TW
17	DIGITAL INPUTS 2.1	=F1	+L3	0	10/06/2025	TW
18	DIGITAL INPUTS 2.2	=F1	+L3	0	10/06/2025	TW
19	DIGTIAL OUTPUTS 1.1	=F1	+L3	0	27/05/2025	TW
20	DIGTIAL OUTPUTS 1.2	=F1	+L3	0	27/05/2025	TW

-> 4-Control Panel 3

Drawing	Description	Function	Location	Revision	Date	Created by
21	DIGTIAL OUTPUTS 2.1	=F1	+L3	0	27/05/2025	TW
22	DIGTIAL OUTPUTS 2.2	=F1	+L3	0	27/05/2025	TW
23	ENCODER INPUT 5	=F1	+L3	0	27/05/2025	TW
24	ENCODER INPUT 6	=F1	+L3	0	27/05/2025	TW



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

Control Panel 3

POWER DISTRIBUTION

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

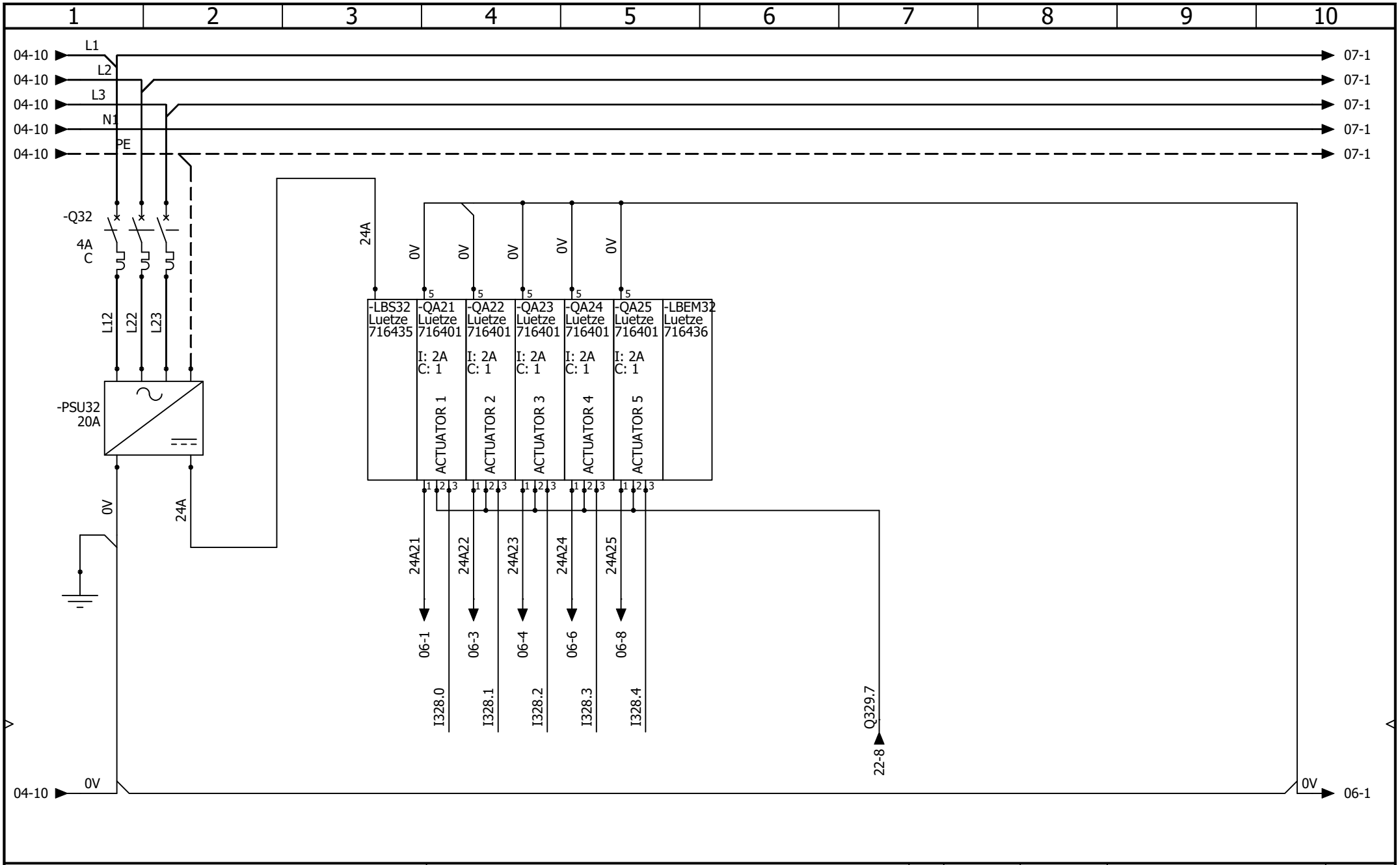
User data 2

REVISION 0

SCHEME 04

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3



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

Control Panel 3

ACTUATOR SUPPLIES

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

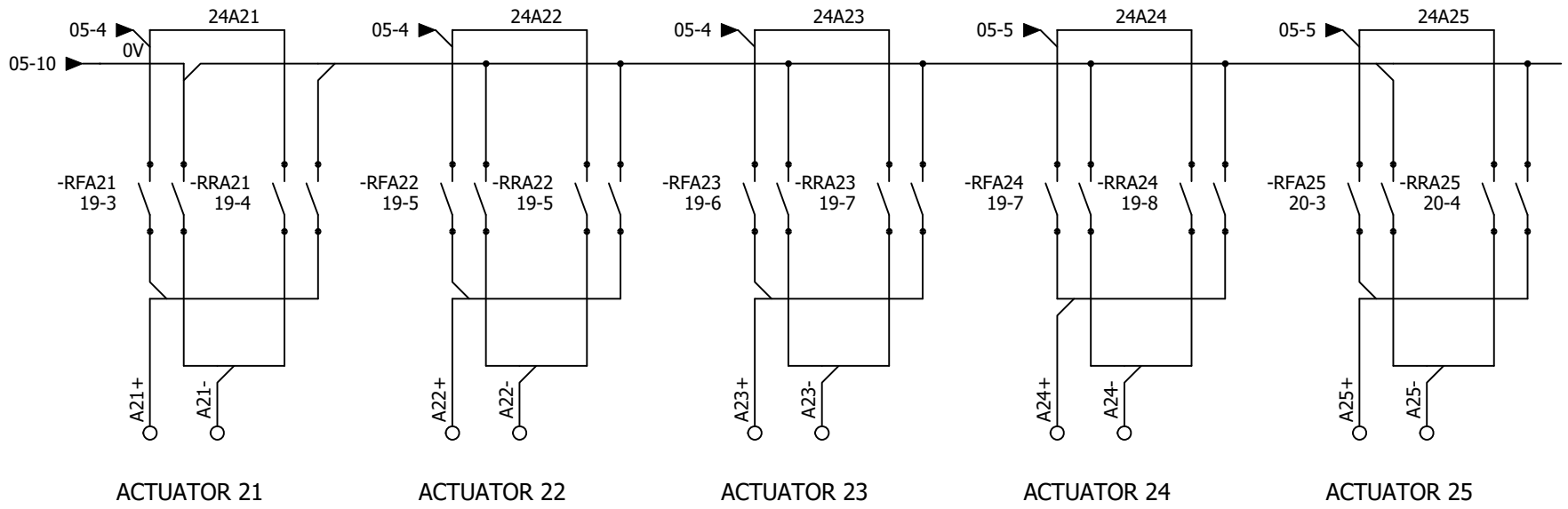
User data 2

REVISION 0

SCHEME 05

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

Control Panel 3

ACTUATOR CONTROL

LOCATION: +L3 Control Panel 3

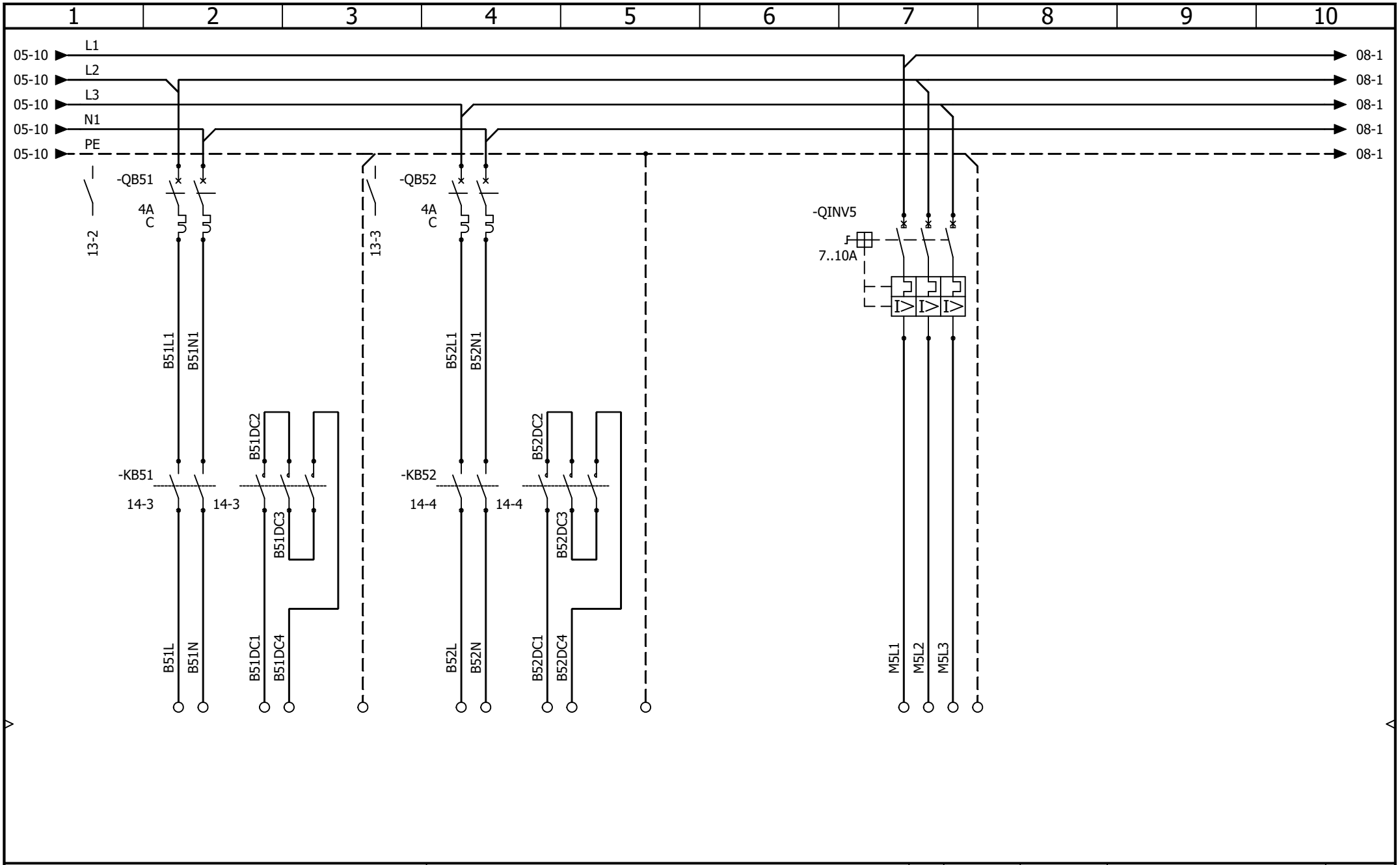
REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

REVISION 0

SCHEME 06



AAC Technical Services Ltd
Unit 2, Brunel Business Court
Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 3

MOTOR 5 AND BRAKE CONTROL

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

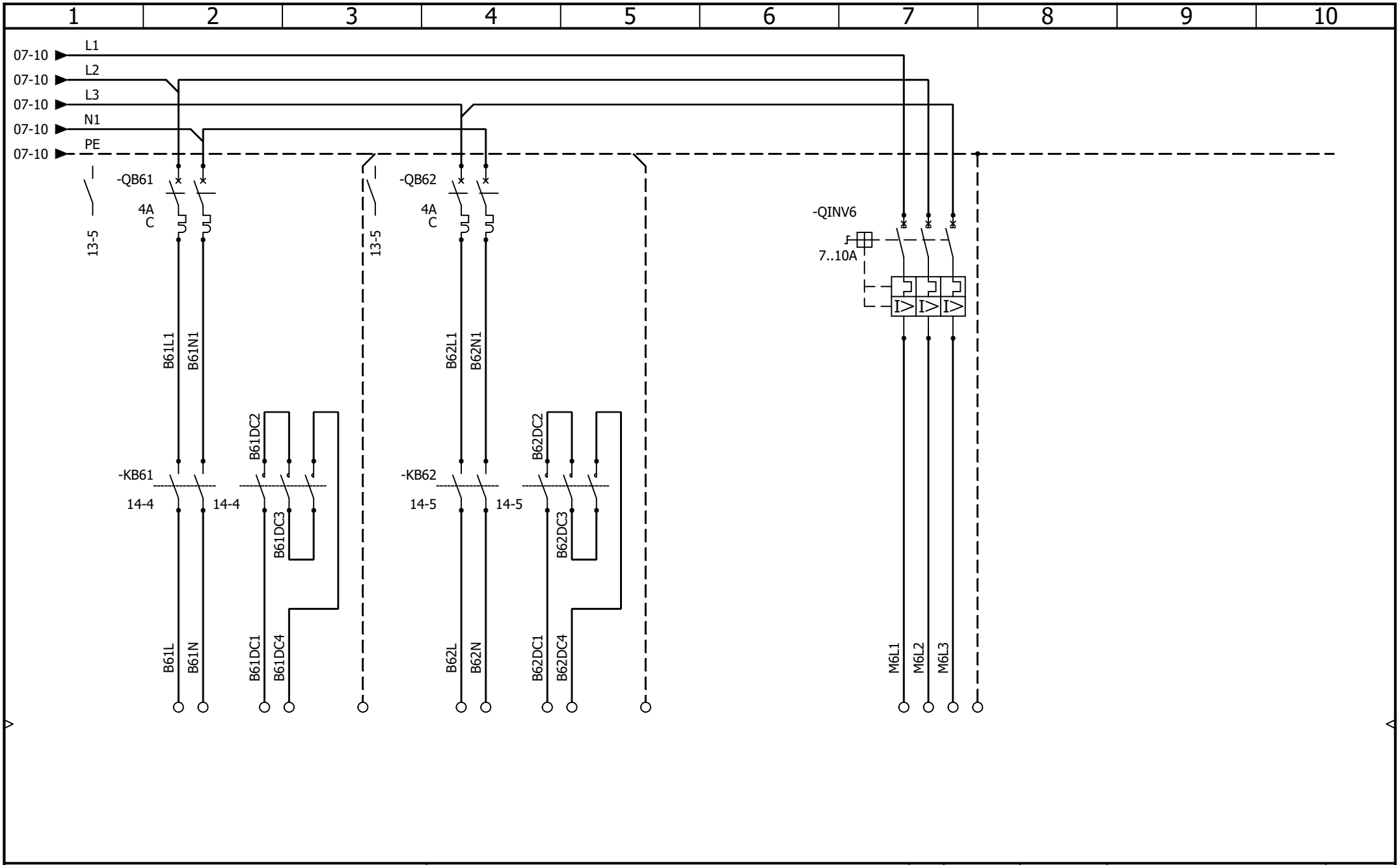
User data 2

REVISION 0

SCHEME 07

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3



AAC Technical Services Ltd
Unit 2, Brunel Business Court
Brunel Way, Thetford, Norfolk IP24 1HP

Control Panel 3

MOTOR 6 AND BRAKE CONTROL

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

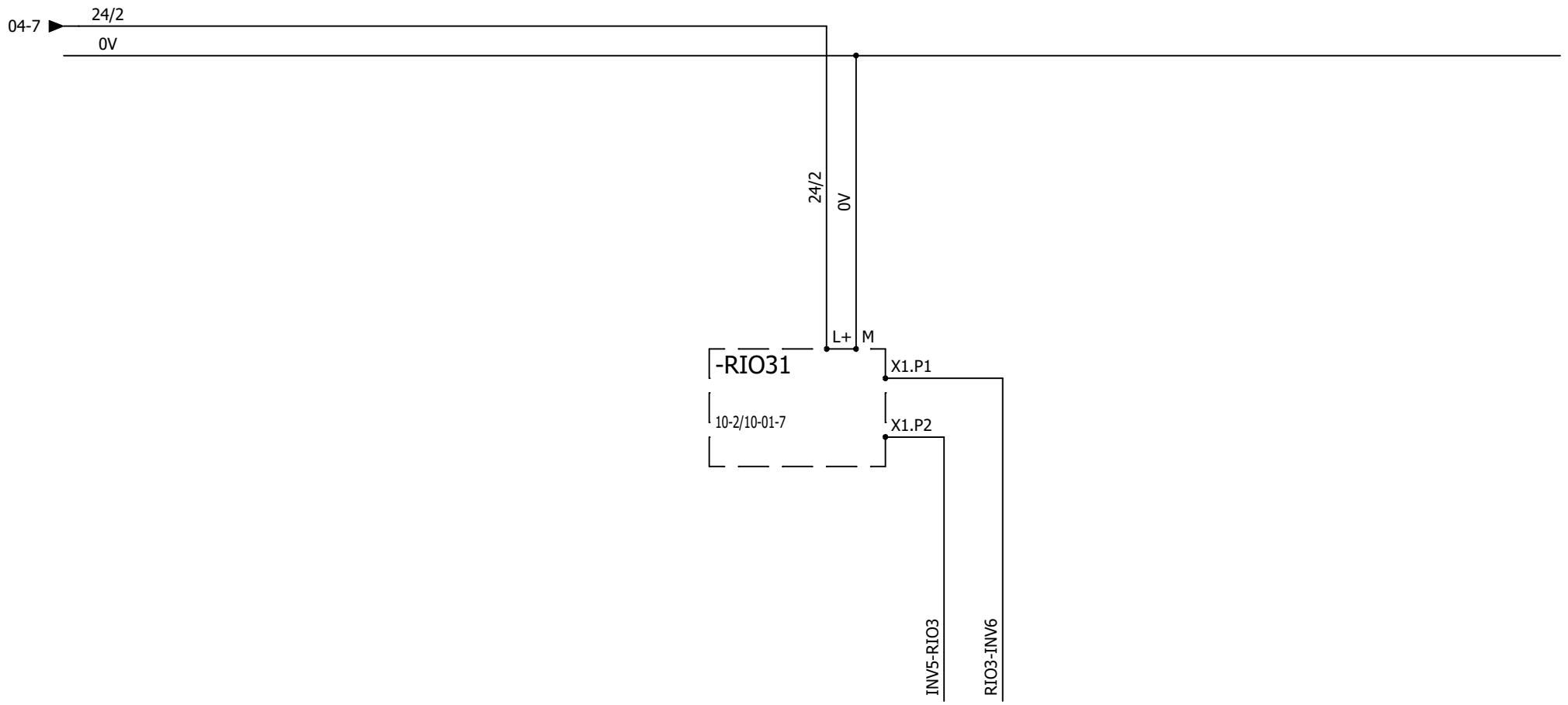
User data 2

REVISION 0

SCHEME 08

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

Control Panel 3

PANEL NETWORK

LOCATION: +L3 Control Panel 3

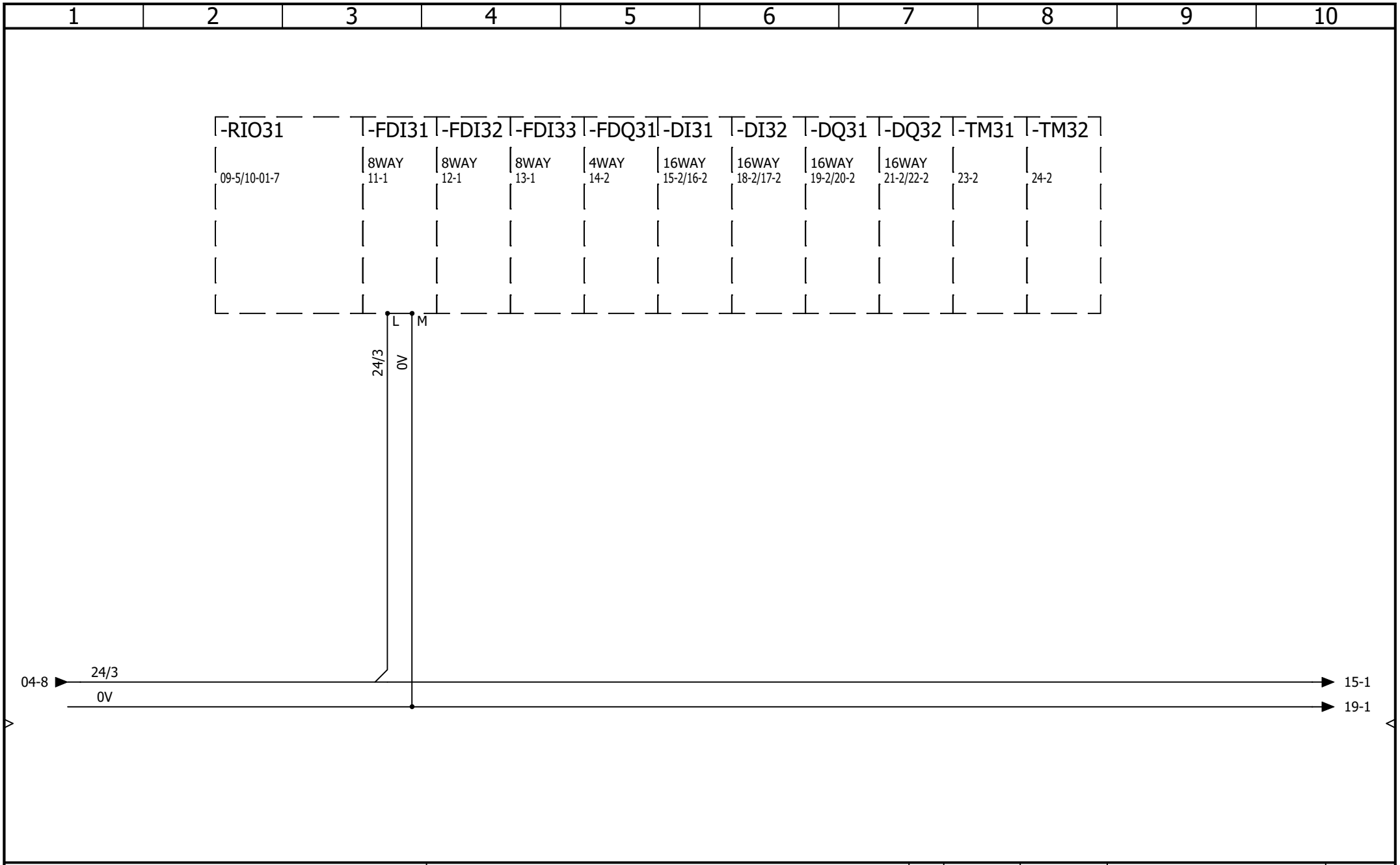
REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

REVISION 0

SCHEME 09



AAC Theatre Systems
Unit 2, Brunel Business Court
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CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

REMOTE IO LAYOUT

LOCATION: +L3 Control Panel 3

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

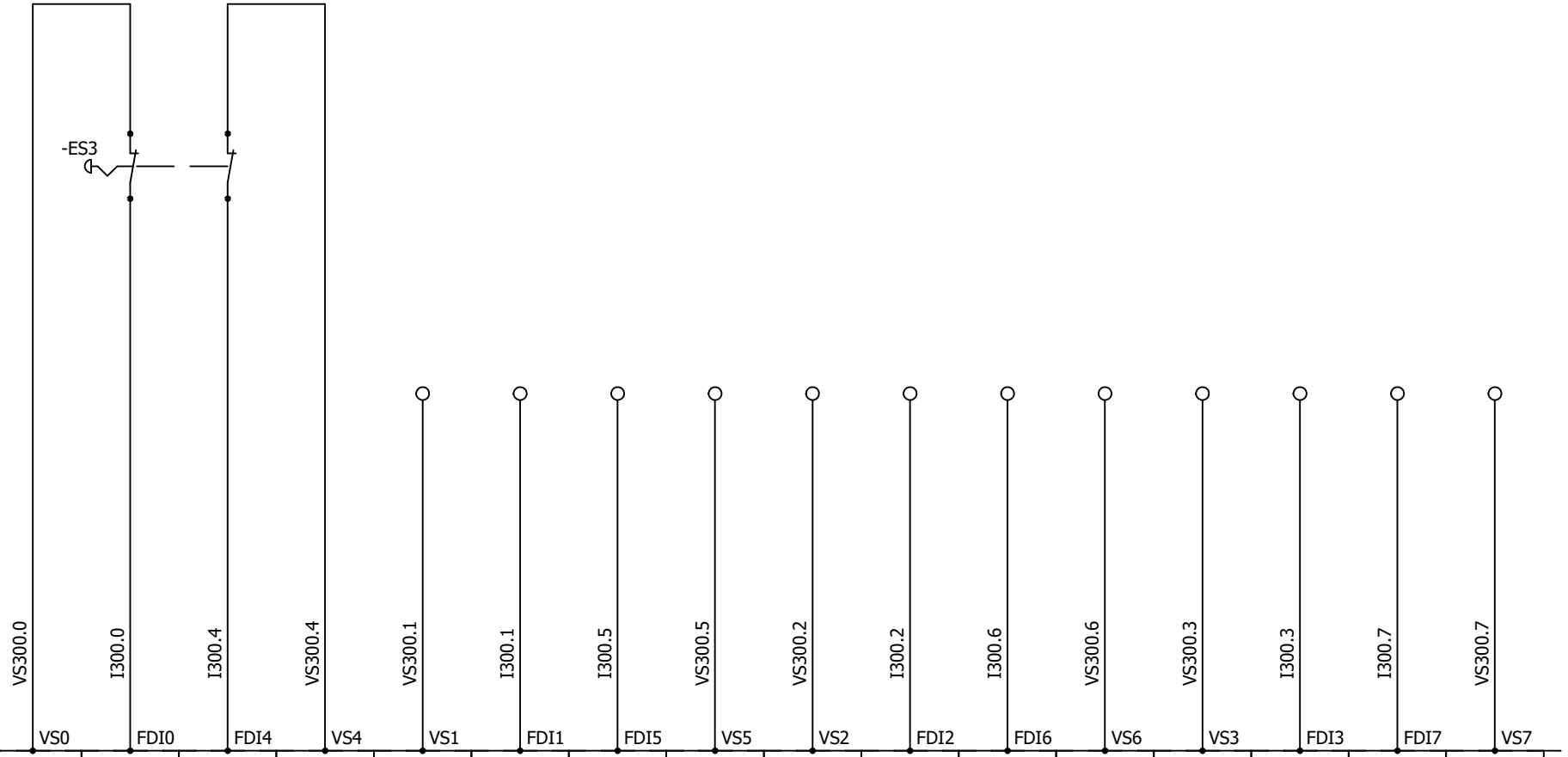
User data 1

User data 2

REVISION 0

SCHEME 10

1	2	3	4	5	6	7	8	9	10



-FDI31	VS0	I300.0	I300.4	VS4	VS1	I300.1	I300.5	VS5	VS2	I300.2	I300.6	VS6	VS3	I300.3	I300.7	VS7
6ES7 136-6BA01-0CA0 8WAY 10-3		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
A A C Theatre Systems

Control Panel 3

FAILSAFE DIGITAL INPUTS 1

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

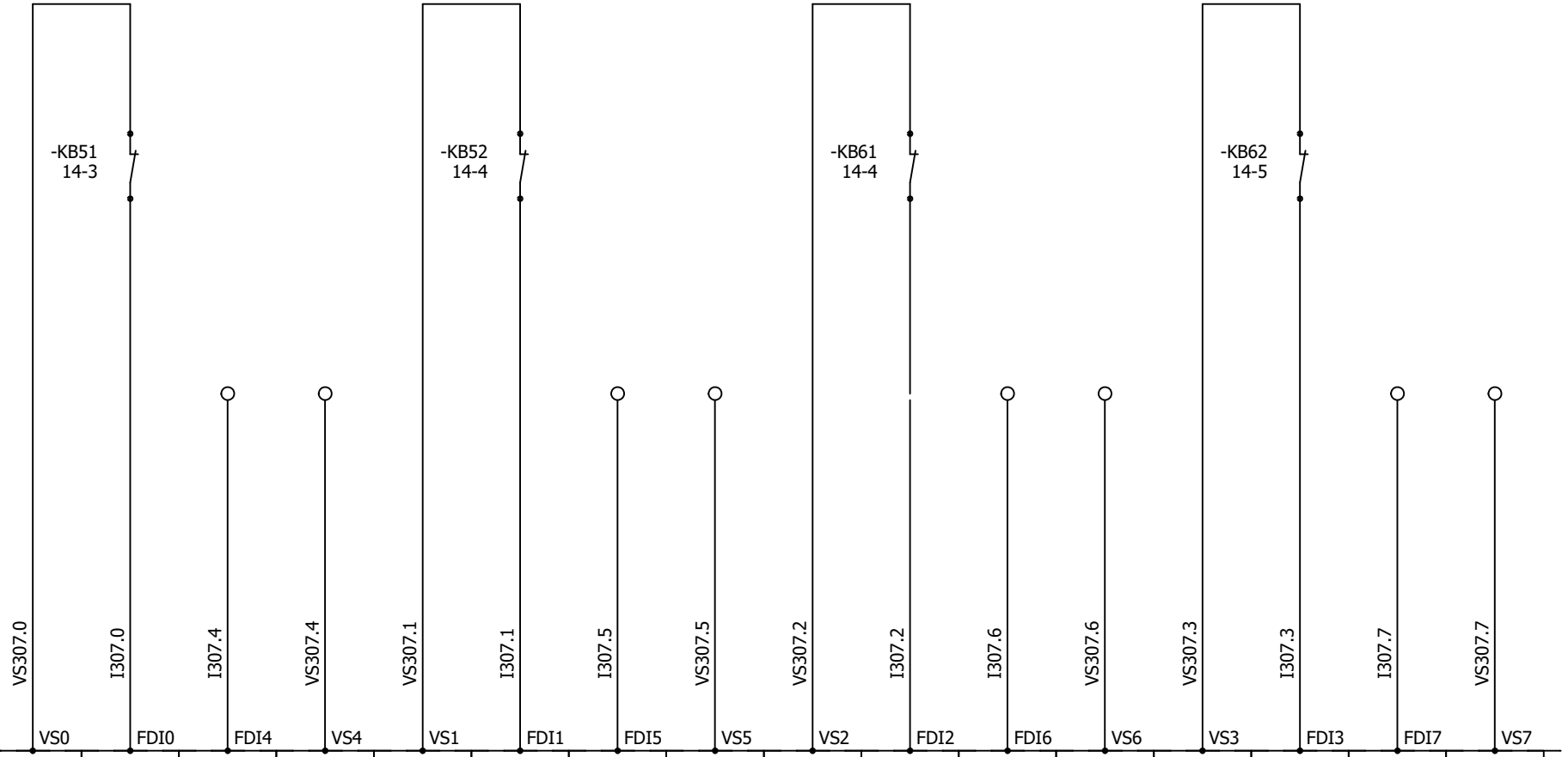
REVISION 0

SCHEME 11

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3

1	2	3	4	5	6	7	8	9	10



-FDI32	VS0	I307.0	I307.4	VS4	VS1	I307.1	I307.5	VS5	VS2	I307.2	I307.6	VS6	VS3	I307.3	I307.7	VS7
6ES7 136-6BA01-0CA0 8WAY 10-4		MOTOR 5 BRAKE 1 CONTACTOR FEEDBACK	MOTOR 5 BRAKE 1 FEEDBACK			MOTOR 5 BRAKE 2 CONTACTOR FEEDBACK	MOTOR 5 BRAKE 2 FEEDBACK			MOTOR 6 BRAKE 1 CONTACTOR FEEDBACK	MOTOR 6 BRAKE 1 FEEDBACK			MOTOR 6 BRAKE 2 CONTACTOR FEEDBACK	MOTOR 6 BRAKE 2 FEEDBACK	

AAC Theatre Systems
Unit 2, Brunel Business Court
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Control Panel 3

FAILSAFE DIGITAL INPUTS 2

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

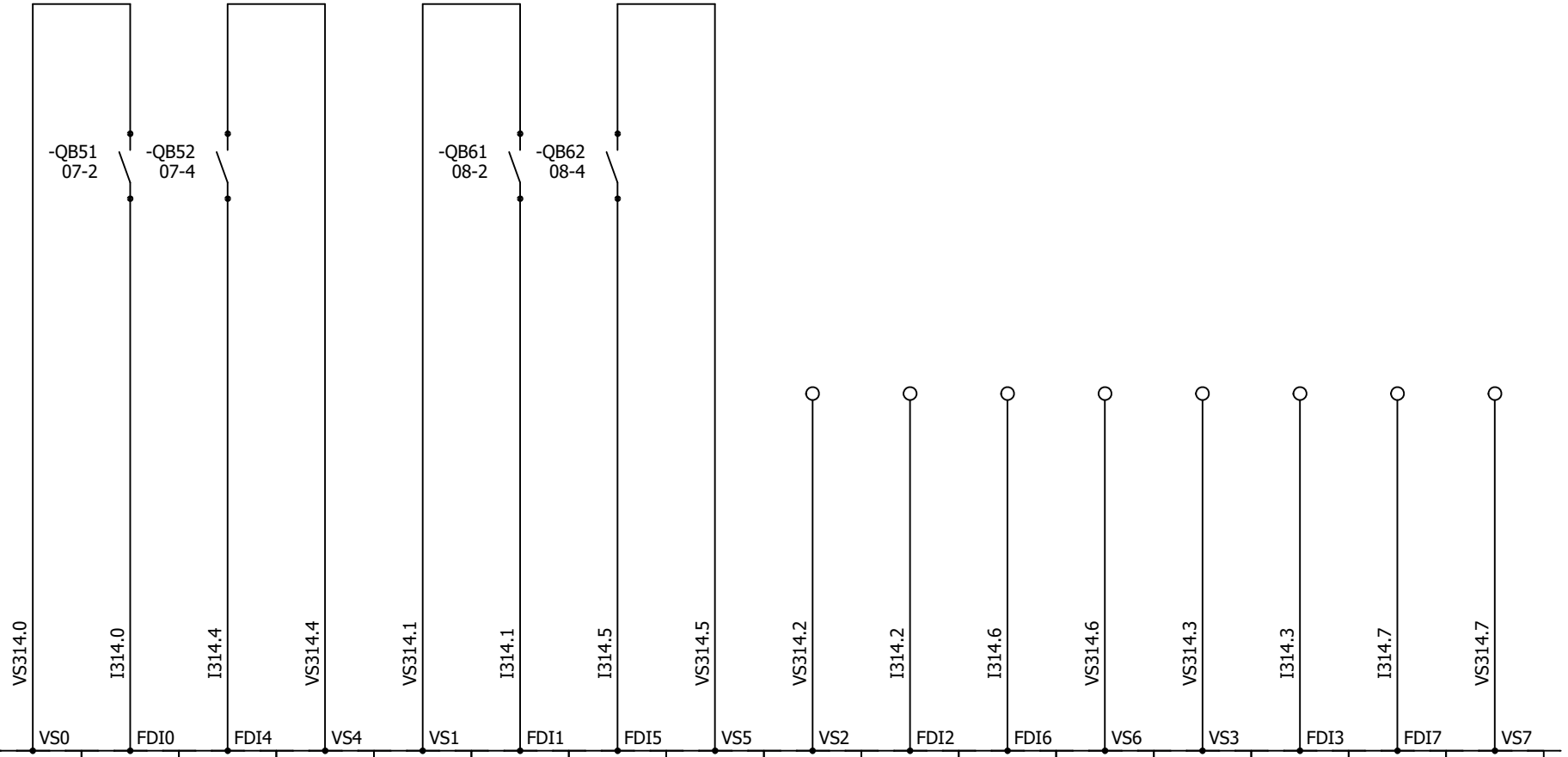
User data 2

REVISION 0

SCHEME 12

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3



-FDI33 6ES7 136-6BA01-0CA0 8WAY 10-4	VS0	I314.0	I314.4	VS4	VS1	I314.1	I314.5	VS5	VS2	I314.2	I314.6	VS6	VS3	I314.3	I314.7	VS7
		MOTOR 5 BRAKE 1 CIRCUIT BREAKER AUX	MOTOR 5 BRAKE 2 CIRCUIT BREAKER AUX			MOTOR 6 BRAKE 1 CIRCUIT BREAKER AUX	MOTOR 6 BRAKE 2 CIRCUIT BREAKER AUX			SERAPID 5 ULTIMATE BOTTOM LIMIT	SERAPID 5 ULTIMATE TOP LIMIT			SERAPID 6 ULTIMATE BOTTOM LIMIT	SERAPID 6 ULTIMATE TOP LIMIT	

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

Control Panel 3

FAILSAFE DIGITAL INPUTS 3

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

REVISION 0

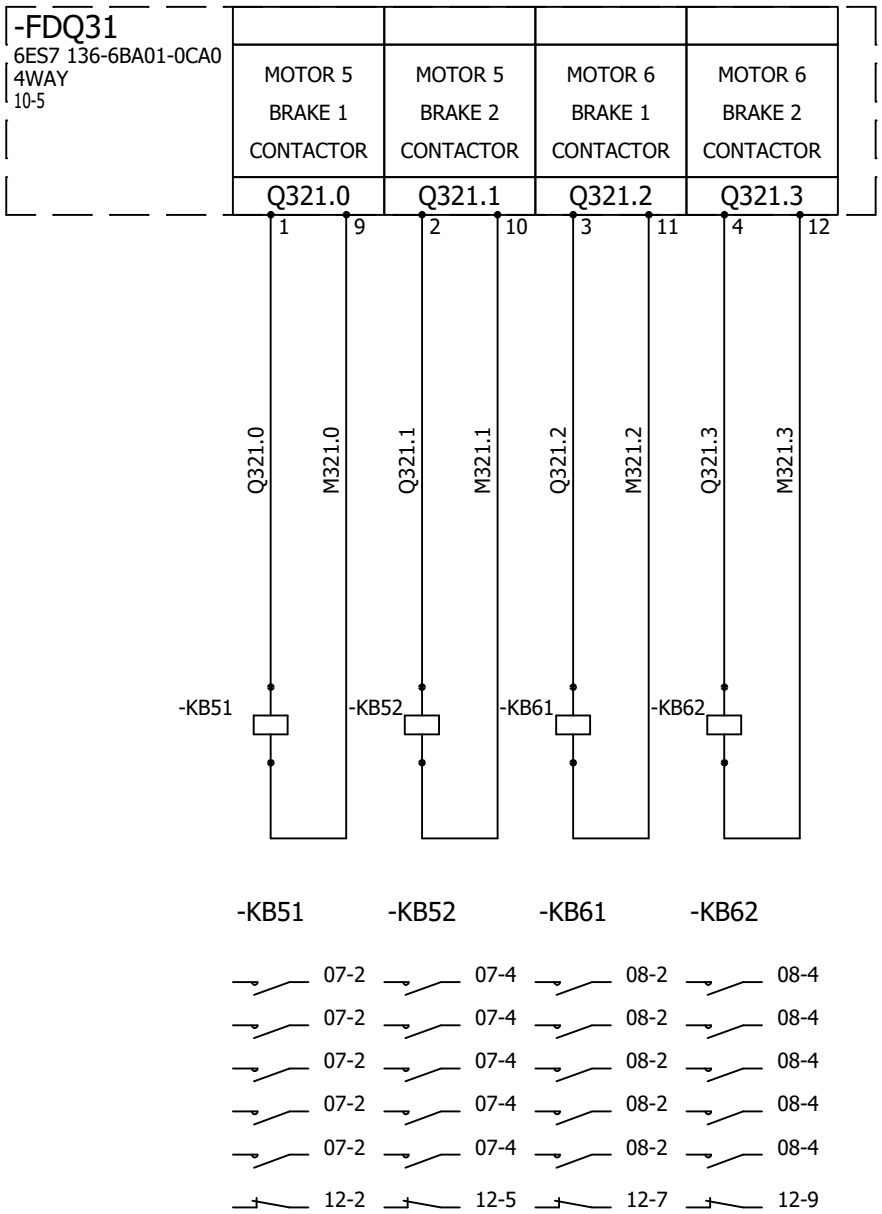
SCHEME 13

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3

User data 1

User data 2



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

Control Panel 3

FAILSAFE DIGTIAL OUTPUTS 1.1

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

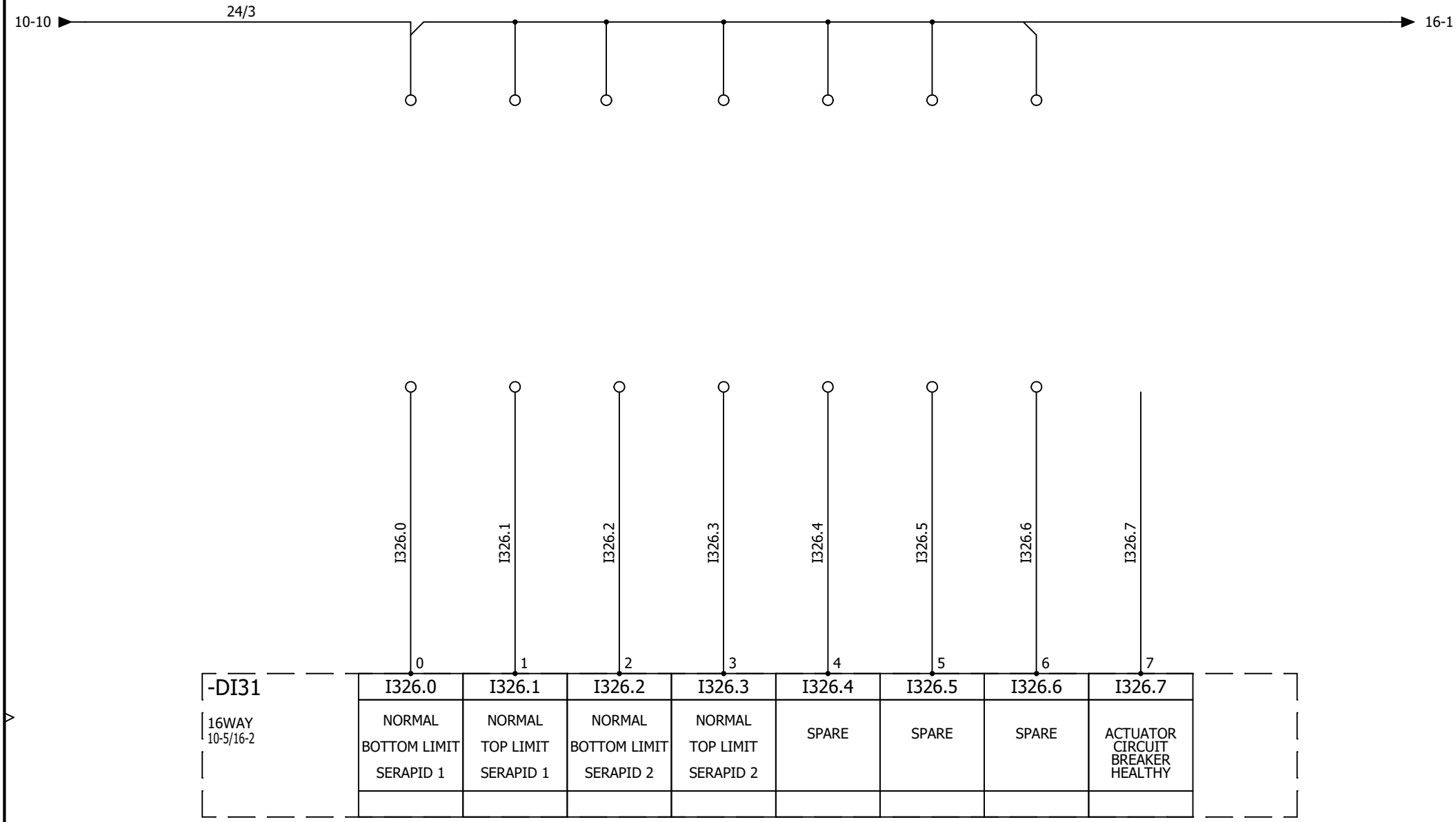
REVISION 0

SCHEME 14

CONTRACT: 2395 - PALACE - NIKE

LOCATION: +L3 Control Panel 3

1	2	3	4	5	6	7	8	9	10



A A C Theatre Systems

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

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGITAL INPUTS 1.1

LOCATION: +L3 Control Panel 3

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

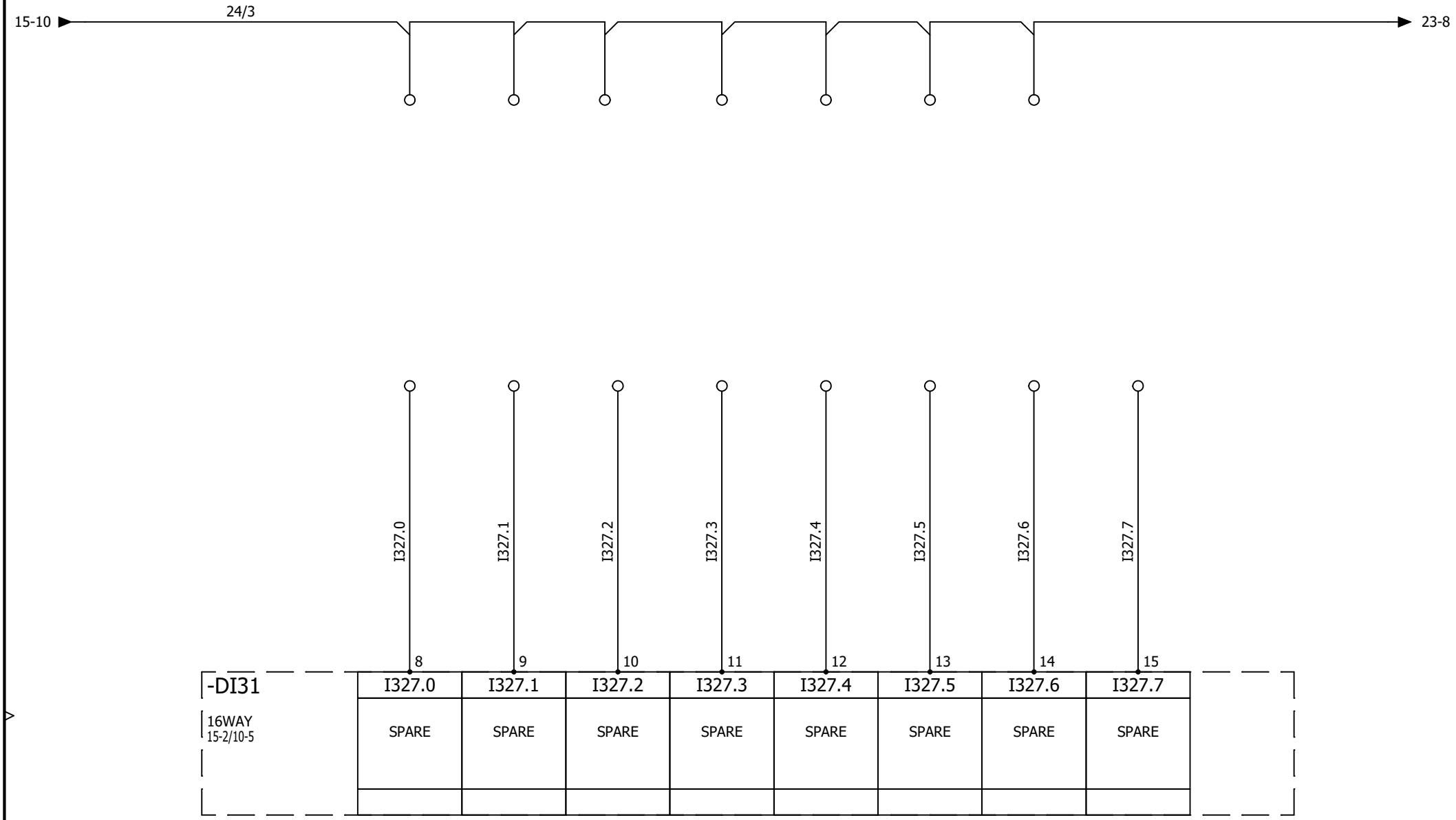
User data 1

User data 2

REVISION 0

SCHEME 15

1	2	3	4	5	6	7	8	9	10



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

A A C Theatre Systems

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGITAL INPUTS 1.2

LOCATION: +L3 Control Panel 3

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

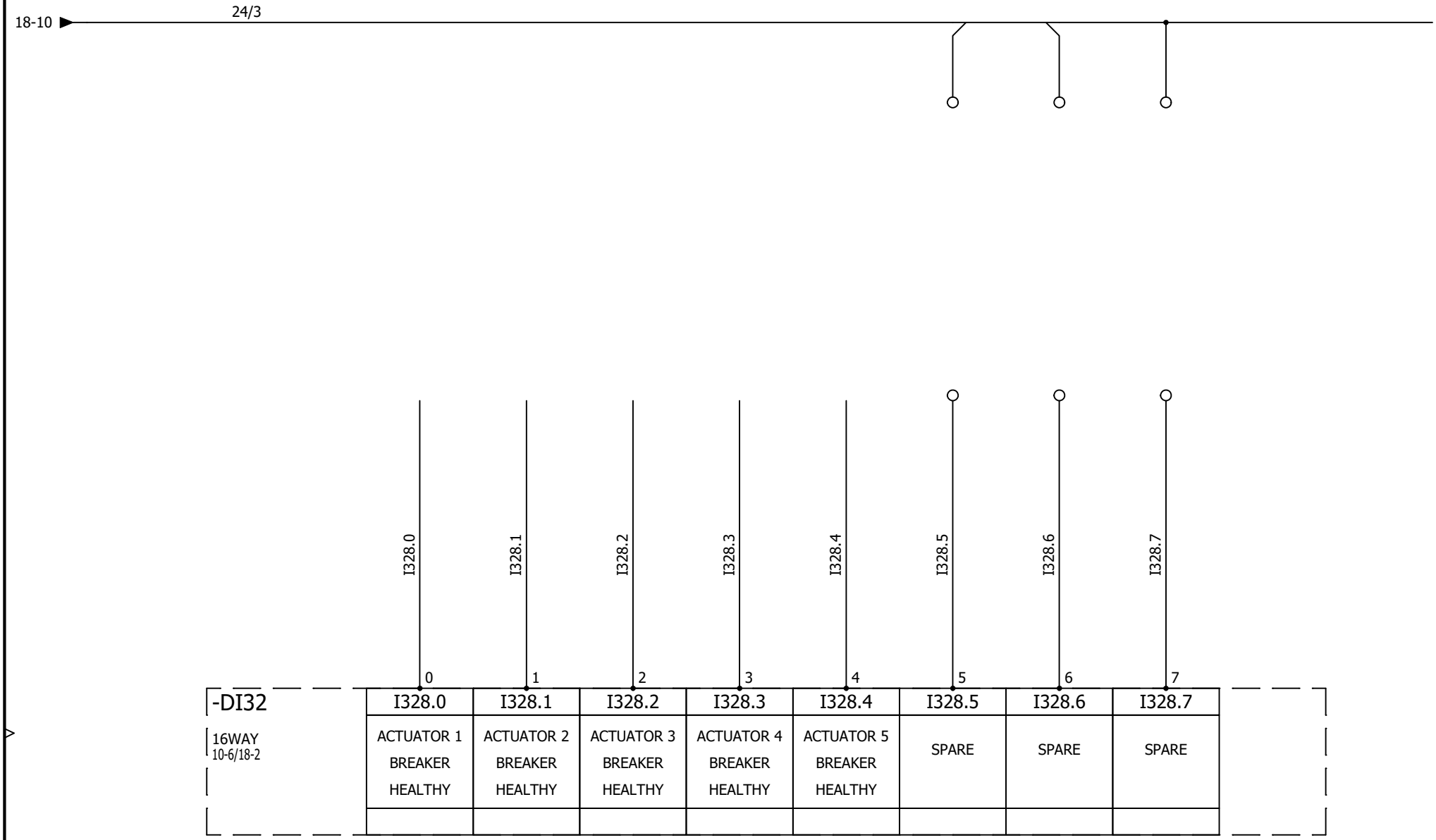
User data 1

User data 2

REVISION 0

SCHEME 16

1	2	3	4	5	6	7	8	9	10



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

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGITAL INPUTS 2.1

LOCATION: +L3 Control Panel 3

REV.	DATE	NAME	CHANGES
0	10/06/2025	TW	

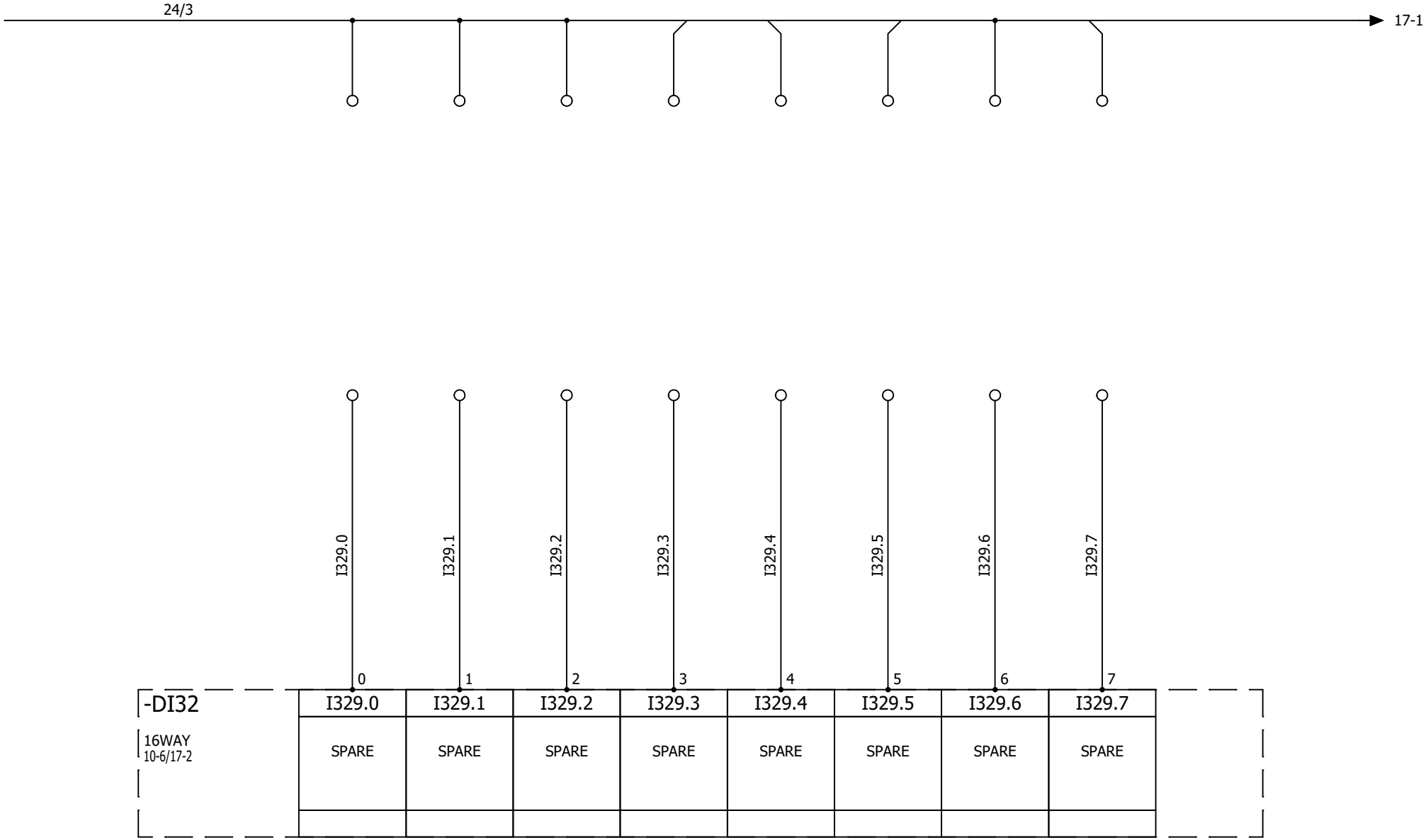
User data 1

User data 2

REVISION 0

SCHEME 17

1	2	3	4	5	6	7	8	9	10



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

A A C Theatre Systems

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGITAL INPUTS 2.2

LOCATION: +L3 Control Panel 3

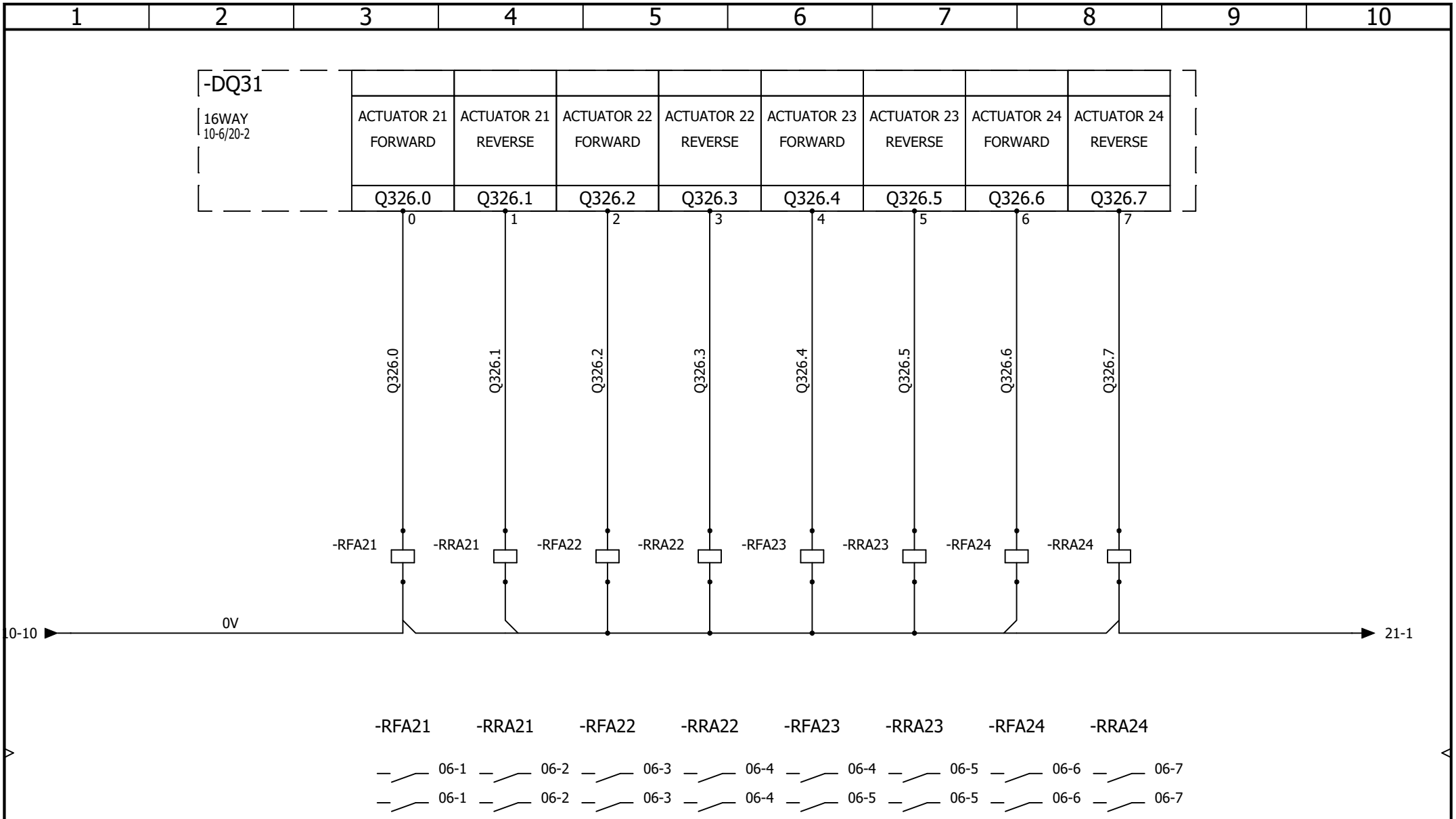
REV.	DATE	NAME	CHANGES
0	10/06/2025	TW	

User data 1

User data 2

REVISION 0

SCHEME 18



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

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGTIAL OUTPUTS 1.1

LOCATION: +L3 Control Panel 3

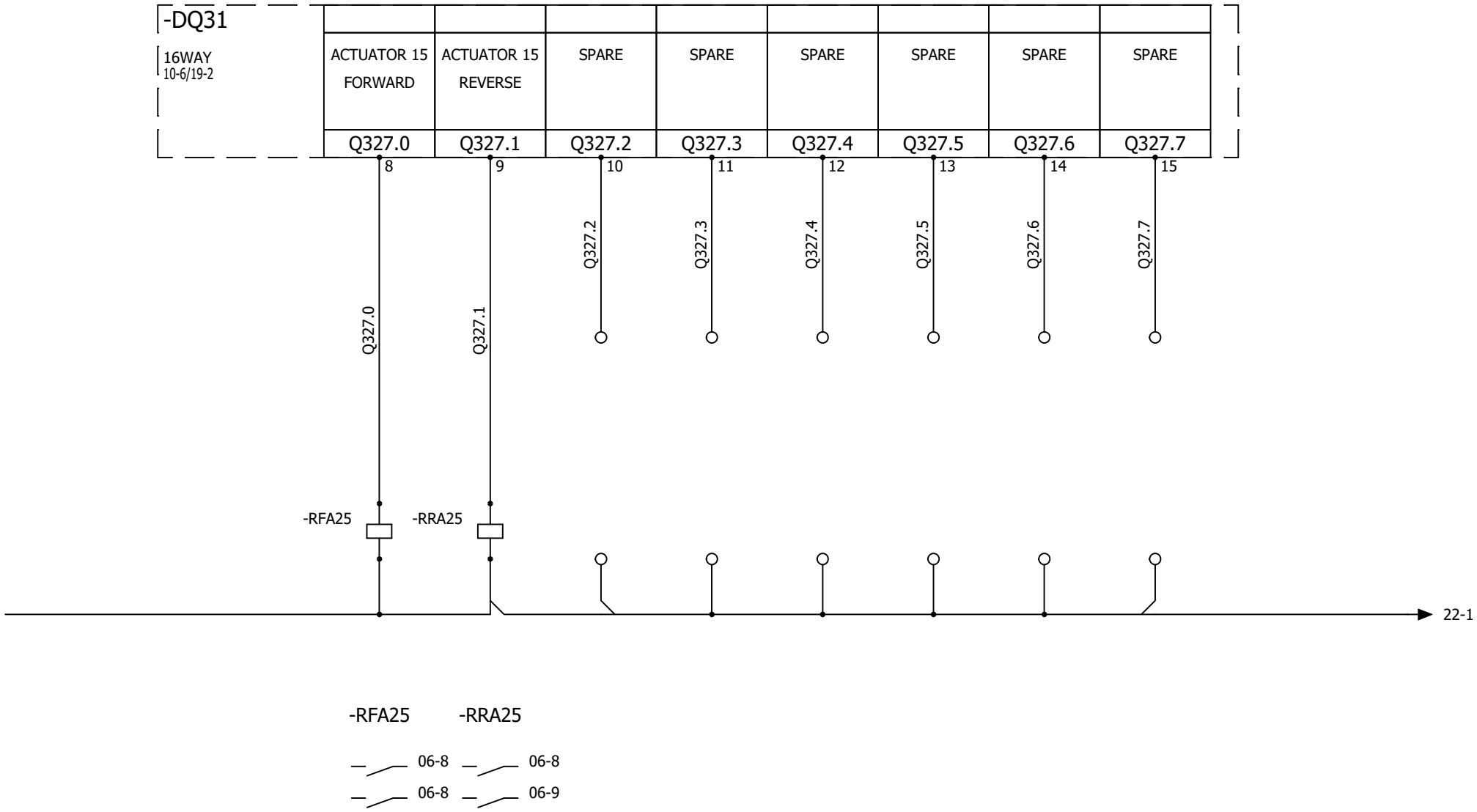
REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

REVISION 0

SCHEME 19



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

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGTIAL OUTPUTS 1.2

LOCATION: +L3 Control Panel 3

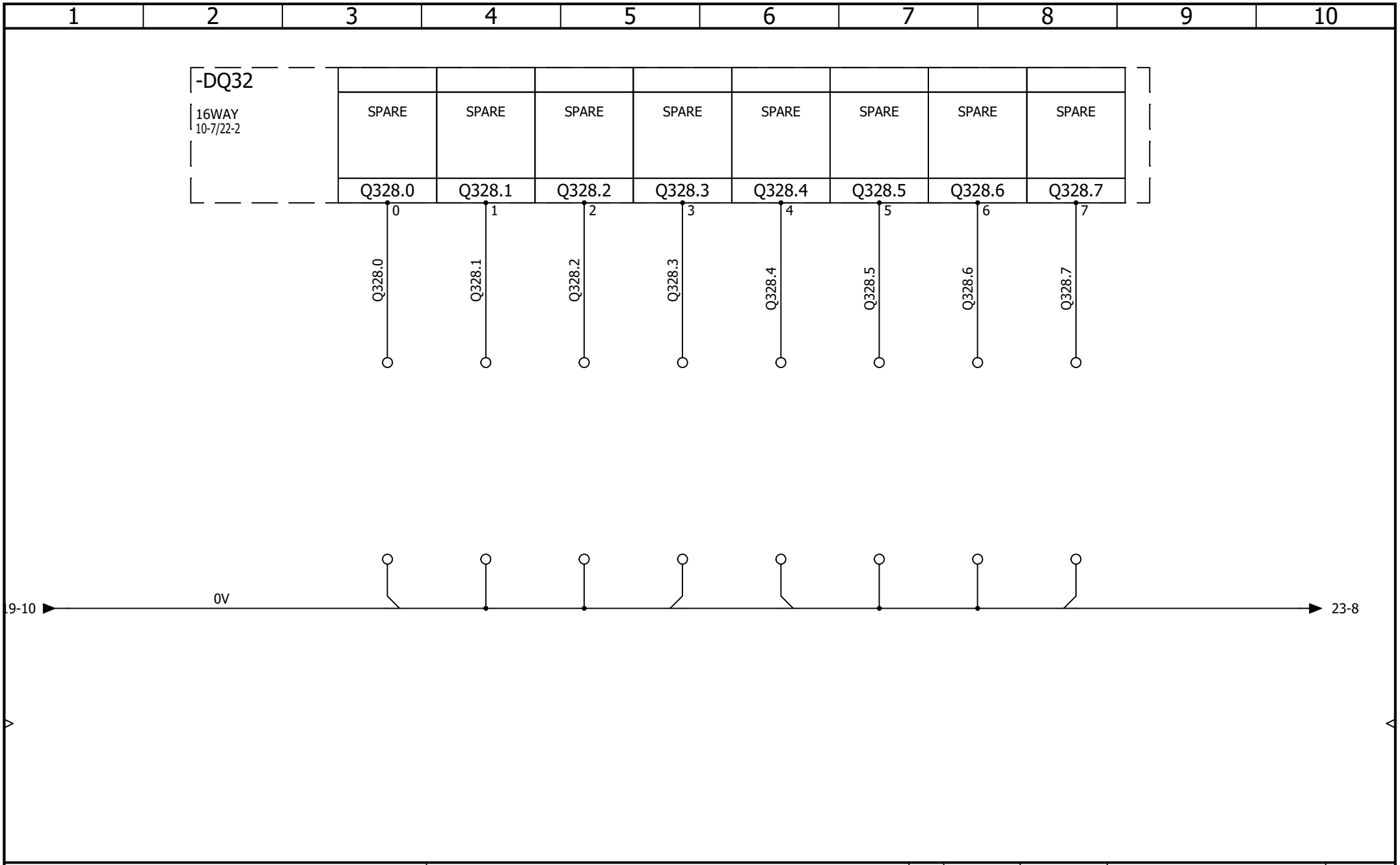
REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

REVISION 0

SCHEME 20



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

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGTIAL OUTPUTS 2.1

LOCATION: +L3 Control Panel 3

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

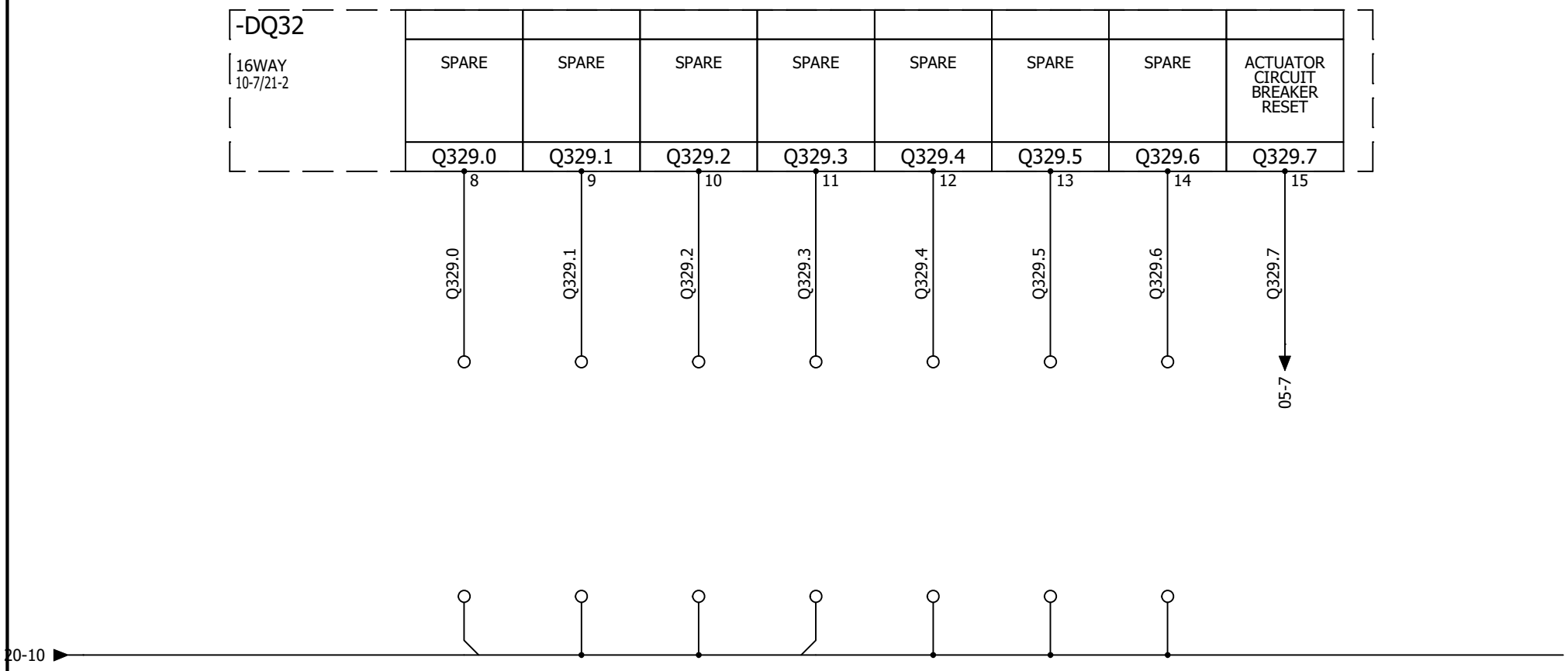
User data 1

User data 2

REVISION 0

SCHEME 21

1	2	3	4	5	6	7	8	9	10



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

A A C Theatre Systems

CONTRACT: 2395 - PALACE - NIKE

Control Panel 3

DIGTIAL OUTPUTS 2.2

LOCATION: +L3 Control Panel 3

REV.	DATE	NAME	CHANGES
0	27/05/2025	TW	

User data 1

User data 2

REVISION 0

SCHEME 22

1	2	3	4	5	6	7	8	9	10

-ENC5

ENCODER WIRED DIRECTLY TO PLC.

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

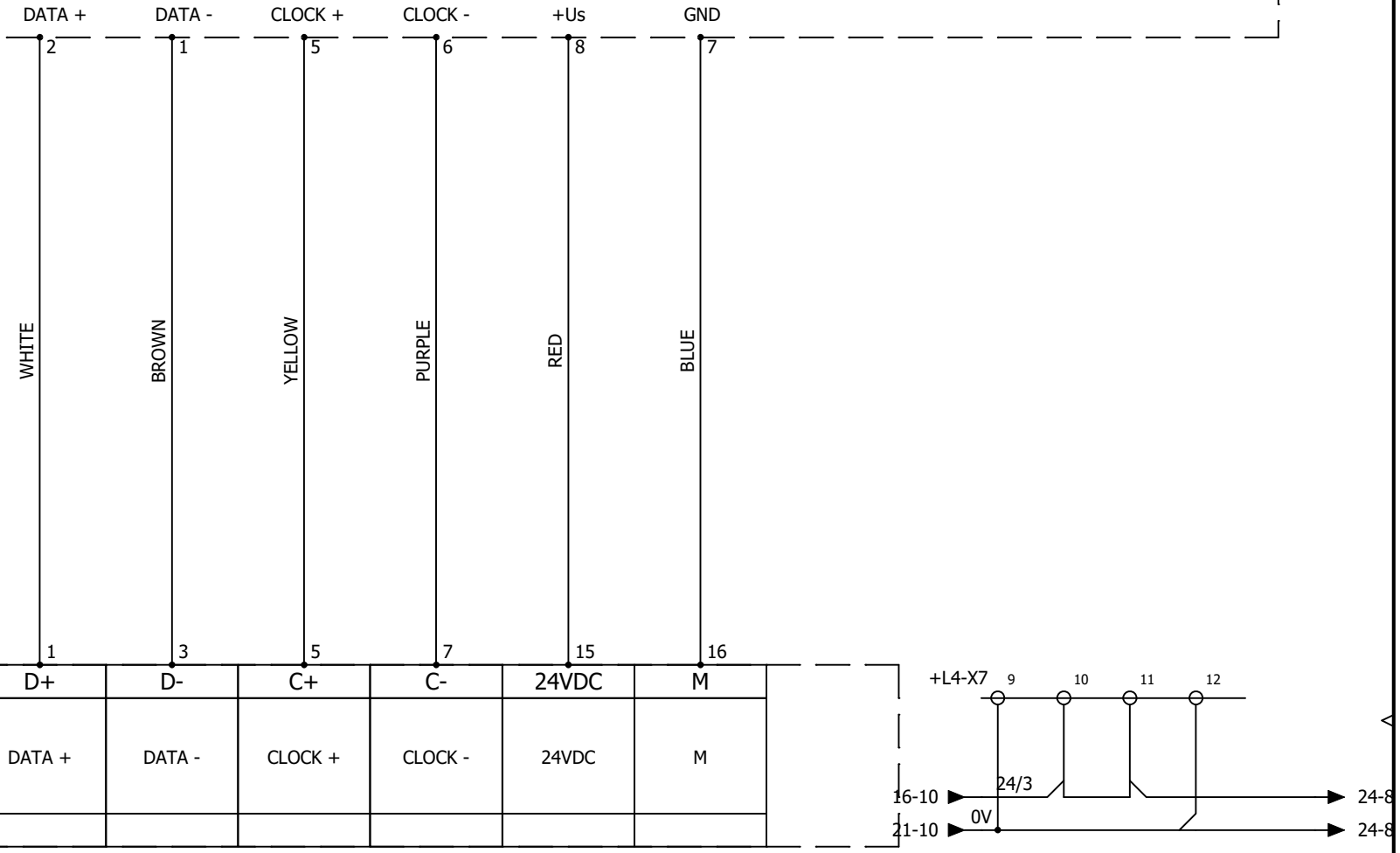
INC
2048 PPR

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

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

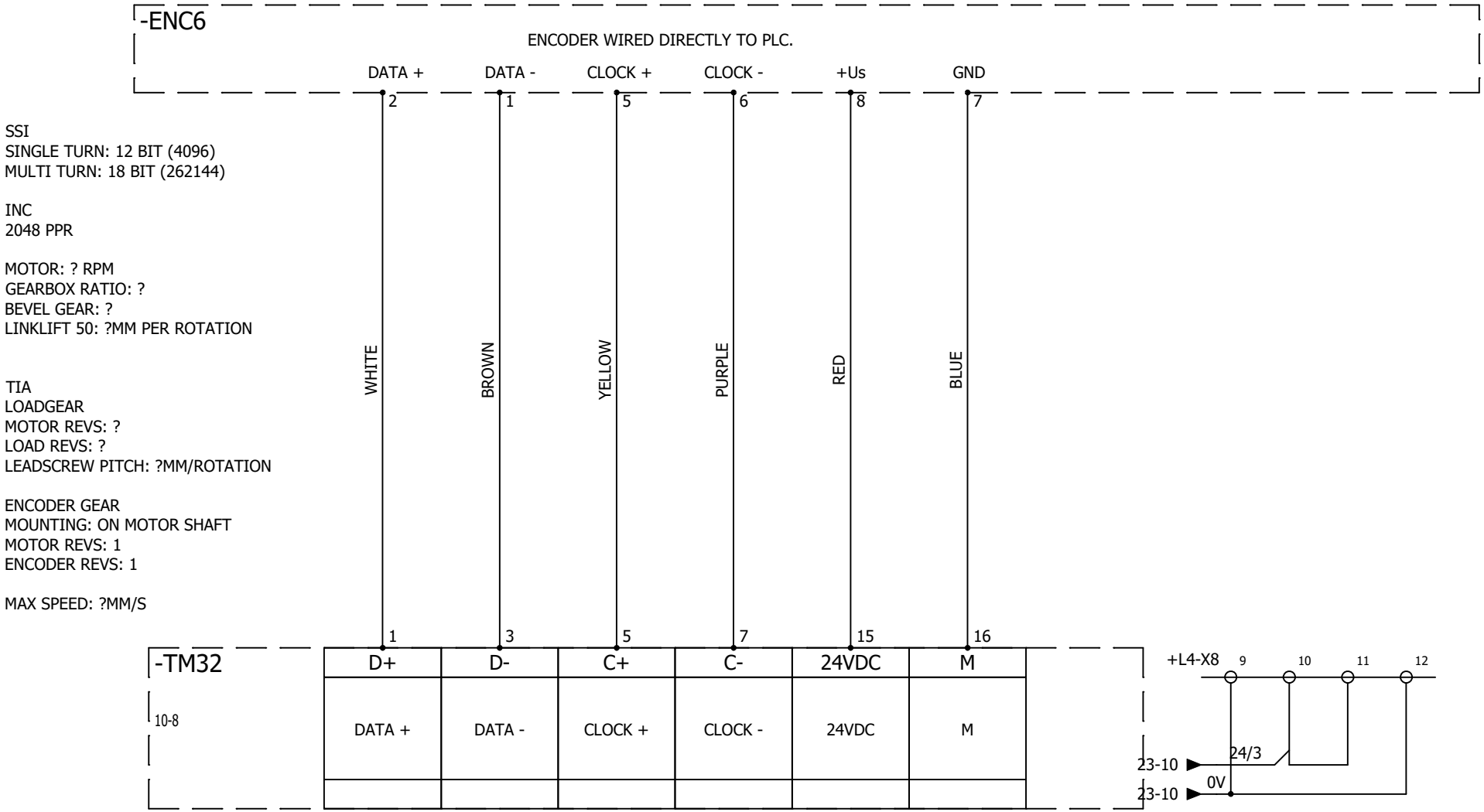
ENCODER GEAR
MOUNTING: ON MOTOR SHAFT
MOTOR REVS: 1
ENCODER REVS: 1

MAX SPEED: ?MM/S



AAC Theatre Systems Unit 2, Brunel Business Court Brunel Way, Thetford, Norfolk IP24 1HP	Control Panel 3 ENCODER INPUT 5					REVISION 0
		0	27/05/2025	TW		
		REV.	DATE	NAME	CHANGES	SCHEME 23
CONTRACT: 2395 - PALACE - NIKE	LOCATION: +L3 Control Panel 3	User data 1			User data 2	

1	2	3	4	5	6	7	8	9	10



AAC Theatre Systems Unit 2, Brunel Business Court Brunel Way, Thetford, Norfolk IP24 1HP	Control Panel 3 ENCODER INPUT 6					REVISION 0
		0	27/05/2025	TW		
		REV.	DATE	NAME	CHANGES	SCHEME 24
CONTRACT: 2395 - PALACE - NIKE	LOCATION: +L3 Control Panel 3	User data 1			User data 2	