

A	B	C	D	E	F	G	H	J	K
ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED DRG. PRACTICE TO B.S. 8888:2008, THIRD ANGLE PROJECTION TOLERANCES UNLESS OTHERWISE STATED TO BS EN 2768-1:1993 m									
STORAGE RING CELL 15 FE15I INSTRUMENTATION & CONTROL HOOK-UP DRAWING									
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A		FIRST ISSUE				THIS REVISION DRN NMP DATE 24/02/21		TITLE STORAGE RING CELL 15 FRONT END 15I CONTROL SYSTEMS HOOK-UP DRAWING	
diamond		CHK DATE		APPD DATE		ORIGINATOR DATE NMP 24/02/21		DRG STATUS WIP	
DIAMOND LIGHT SOURCE LTD DIAMOND HOUSE HARWELL SCIENCE AND INNOVATION CAMPUS DIDCOT, OXFORDSHIRE OX11 0DE		AUTOCAD DRG No. 1166408		SHEET 1 OF 18		REV. A			

STORAGE RING CELL 15

FE15I INSTRUMENTATION & CONTROL

HOOK-UP DRAWING

HOOK-UP DRAWING DRAWINGS

SHEET	DESCRIPTION
1	HOOK-UP DRAWING INDEX
2	FE15I-CS-RACK-01 230VAC POWER DISTRIBUTION.
3	FE15I-CS-RACK-01 24VDC POWER DISTRIBUTION.
4	FE15I-CS-RACK-01 NETWORK / COMMS (SERIAL)
5	FE15I-RS-ABSB-01 AND FE15I-VA-VALVE-01 CONTROL
6	FE15I-PS-SHTR-01 CONTROL & MPS DETAIL
7	FE15I-PS-SHTR-02 AND FE15I-VA-VALVE-02 CONTROL
8	FE15I-VA-IMG-01/02, FE15I-VA-PIRG-01/02, FE15I-VA-RGA-01, CONTROL.
9	FE15I-VA-FCTLR-01 FAST FLAP VALVE CONTROLLER 01
10	FE15I-VA-IONP-01/02/03/04/05 CONTROL.
11	FE15I-VA-IMG-03/05, FE15I-VA-PIRG-03/05, CONTROL.
12	FE15I-VA-IMG-04/06, FE15I-VA-PIRG-04/06, CONTROL.
13	FE15I-AL-APTR-03 MOTION CONTROL (TABLE 01)
14	REMOTE I/O INPUTS: FAN, PSU FAILURE ALARM AND OUTPUT: RGA RESET
15	FE15I MODULE ASSEMBLY 01 TEMPERATURE TRIPS
16	FE15I MODULE ASSEMBLY 01 WATER FLOWS & SWITCHES
17	FE15I MODULE ASSEMBLY 02 TEMPERATURE INDICATION
18	FE15I MODULE ASSEMBLY 02 WATER FLOWS & SWITCHES
19	
20	
21	
22	
23	
24	
25	

BECKHOFF ETHERCAT MODULE					
MODULE	PART No.	FUNCTION	SEE SHEET No.	POWER REQ.	ACC. POWER
BUS COUPLER	EK 1100	24VDC SUPPLY	/08.06	70mA	
01	ES 3702	2 X ANALOGUE 0-10V I/P	/08.F6	200mA	200mA
02	ES 3702	2 X ANALOGUE 0-10V I/P	/10.F6	200mA	400mA
03	ES 3702	2 X ANALOGUE 0-10V I/P	/12.F6	200mA	600mA

REFERENCE	TITLE
1010498	BLOCK CABLE DIAGRAM (BCD)
1166407	GENERAL ARRANGEMENT (GA)
1008741/ 1008742	6 VALVE CONTROL CRATE
1013463	SR15C VACUUM CONTROL
1019678	SR15C MPS CONTROL
1008690	SERIAL COMMS CABLES
1058899	FAST FLAP VALVE CONTROLLER
1004628	CIA 15 POWER DISTRIBUTION
1008560	POWER SUPPLY UNIT (DUPLEX)
1166409	STORAGE RING CELL 15 FRONT END 15I CONTROL SYSTEMS LABELS
1025895	STEPPER DRIVE CRATE

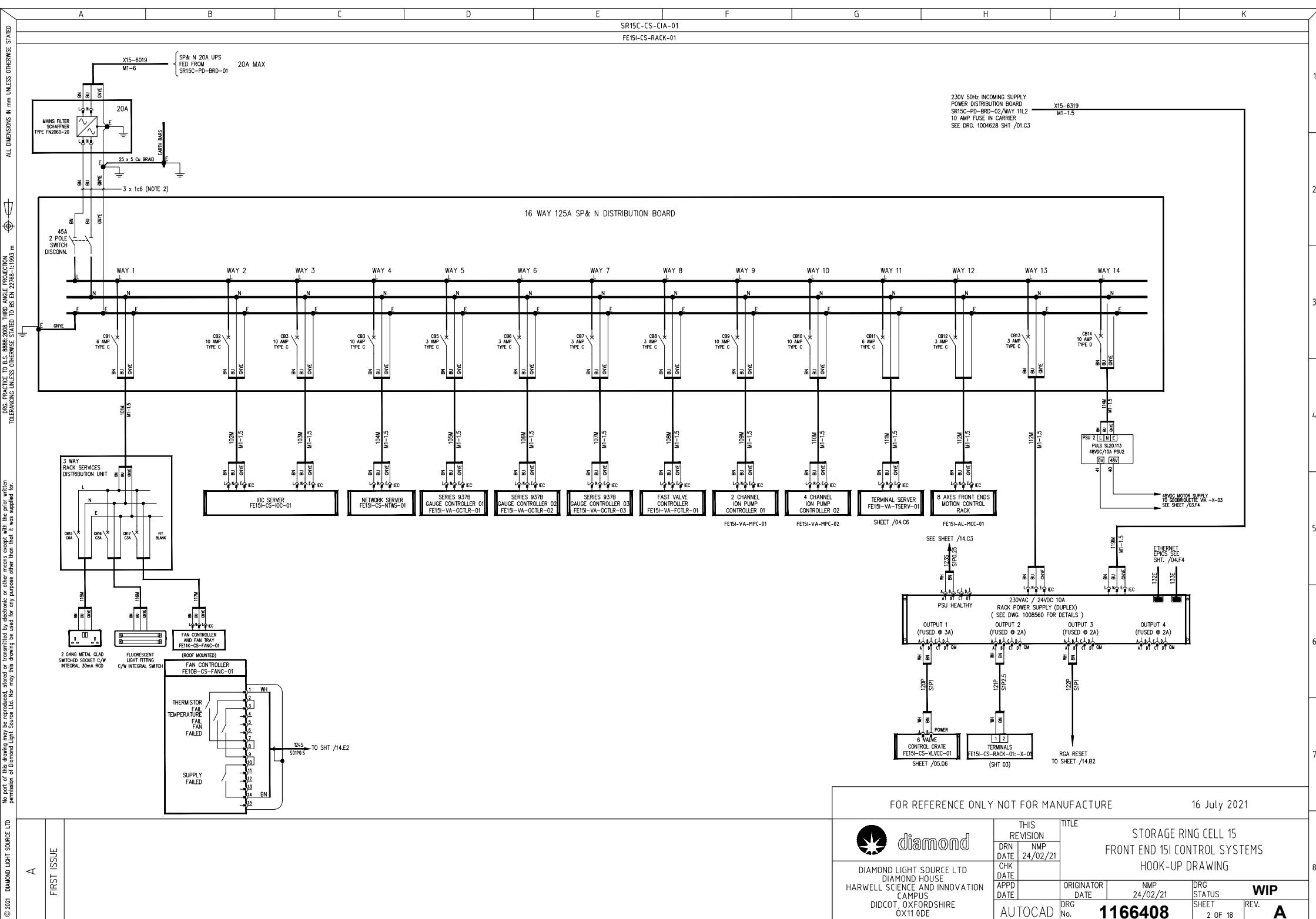
PROFINET REMOTE I/O TERMINALS			
MODULE	PART NUMBER	FUNCTION	SEE SHEET N°
PROFINET COMMUNICATIONS	NX-PNC020	PROFINET COMMUNICATIONS UNIT	14
1	NX-EC0212	COUNTER MODULE	16 AND 18
2 TO 5	NX-TS3201	P100 TEMPERATURE INPUT MODULE	15 AND 17
6	NX-ID5442	16 X DIGITAL INPUT MODULE (PNP)	16 AND 18
7	NX-PD1000	POWER DISTRIBUTION MODULE	14
8	NX-AD4604	ANALOGUE INPUT MODULE	6, 10 AND 12
9	NX-OC4633	4 X RELAY OUTPUT MODULE	14
10	NX-END01	END UNIT	

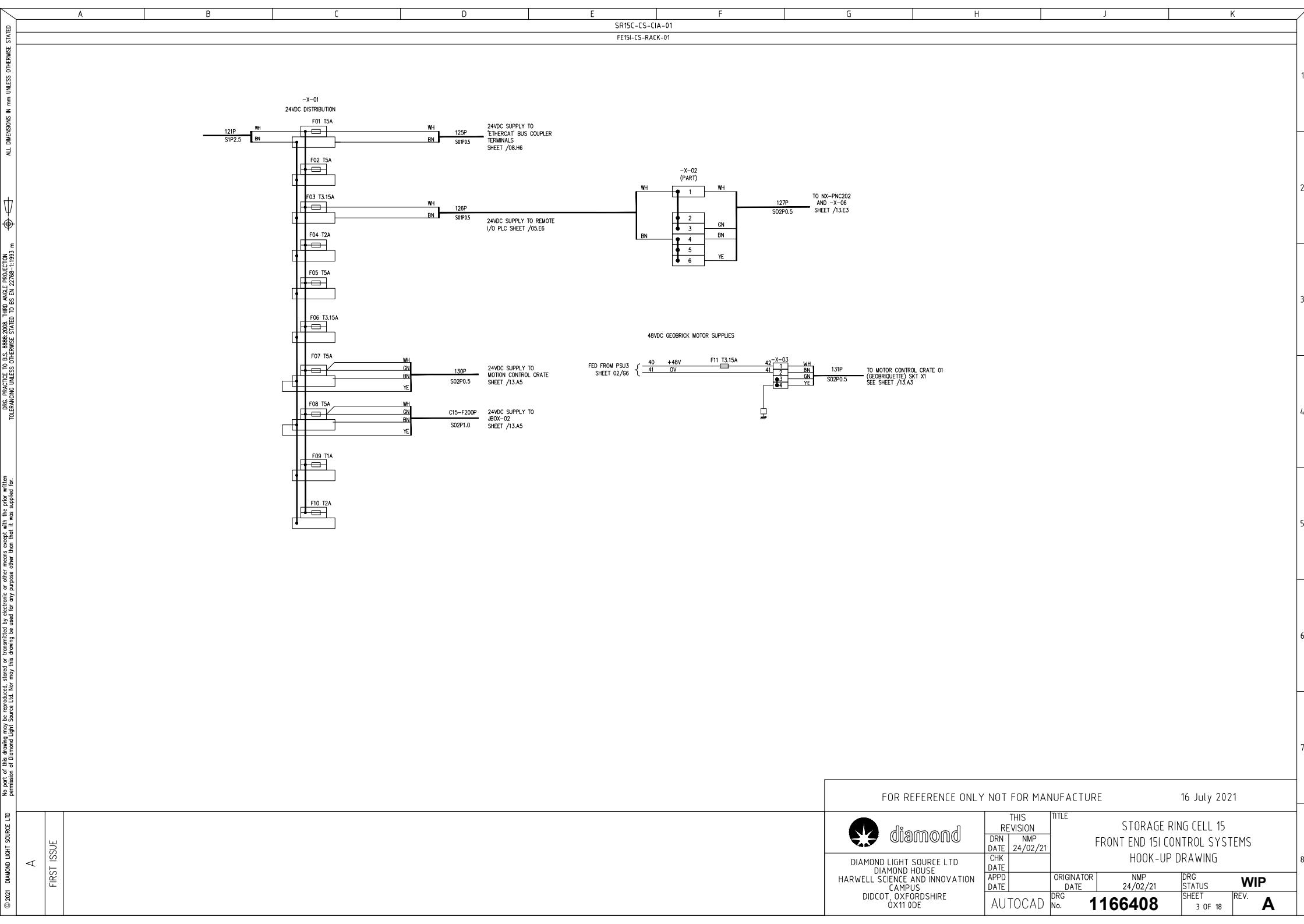
CABLE INTERFACE UNITS			
REF.	TYPE No.	DESCRIPTION	SEE SHEET Nos.
CIU 01	2315188	25 WAY FEMALE	6 AND 7
CIU 02	2315133	25 WAY MALE	6
CIU 03	2315188	25 WAY FEMALE	9
CIU 04	2315188	37 WAY FEMALE	08
CIU 05	2315188	37 WAY FEMALE	11
CIU 06	2315188	37 WAY FEMALE	12

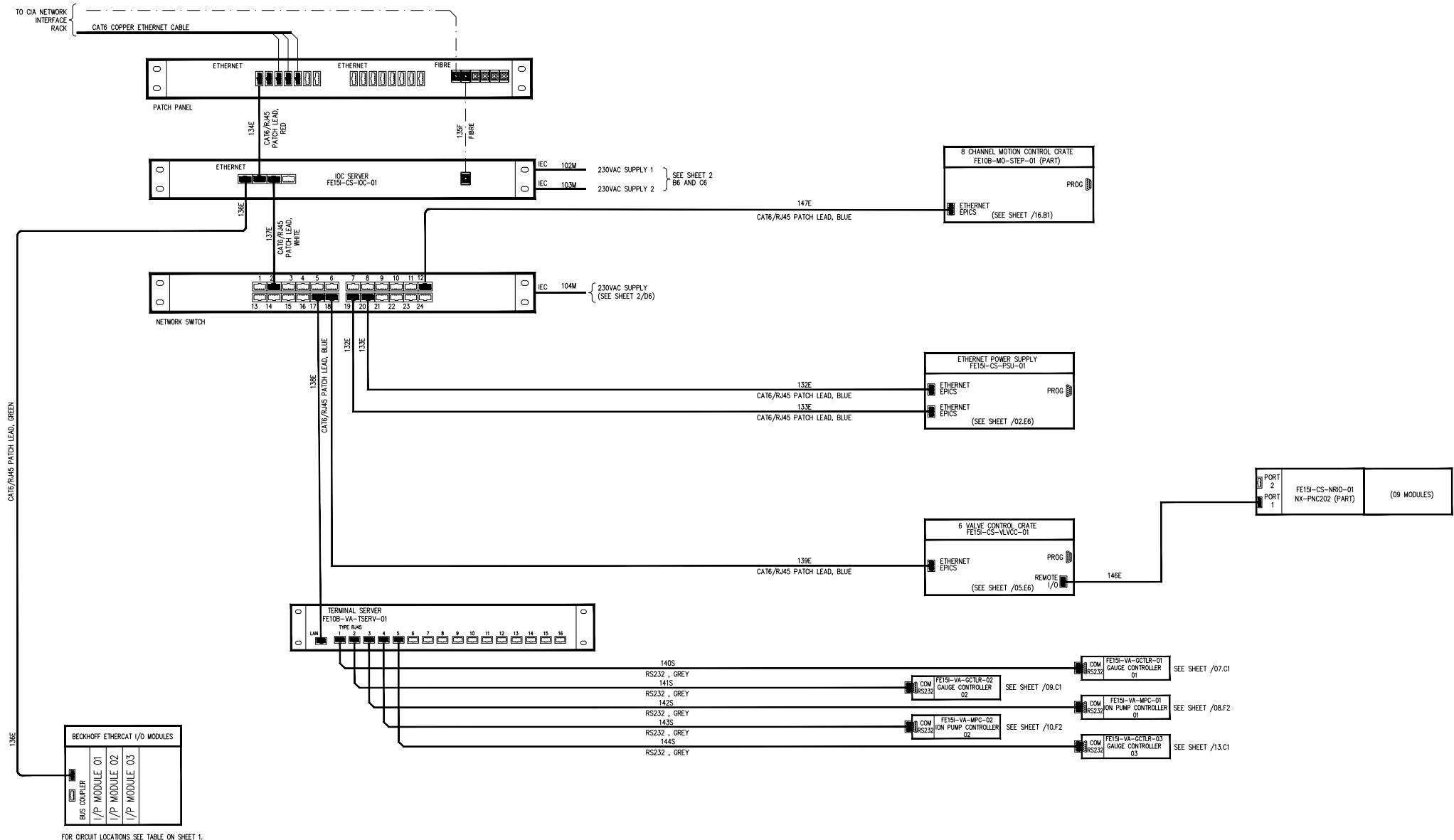
TERMINAL BLOCKS			
REF.	TYPE No.	DESCRIPTION	SEE SHT Nos.
-X-01 TO -X-10	9802730000	2 TIER TERMINAL WOK 2.5	03
-X-02	(A2C 2.5) 1521850000	1 TIER TERMINAL A2C 2.5	03
-X-03	1521850000	1 TIER TERMINAL WDU 2.5	03
-X-04	1521850000	1 TIER TERMINAL WDU 2.5	03
-X-05	1608540000	1 TIER TERMINAL WDU 2.5	06
-X-06	1608540000	2 TIER TERMINAL ZDU 2.5	14, 16 AND 18

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ORIGINATOR DATE NMP 24/02/21	DRG STATUS WIP	DRG No. 1166408
AUTOCAD	SHEET 1 OF 18	REV. A







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STORAGE RING CELL 15
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DIAMOND HOUSE
HARWELL SCIENCE AND INNOVATION
CAMPUS
DIDCOT, OXFORDSHIRE
OX11 0DECHK
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DATE 24/02/21NMP
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No.SHEET
4 OF 18

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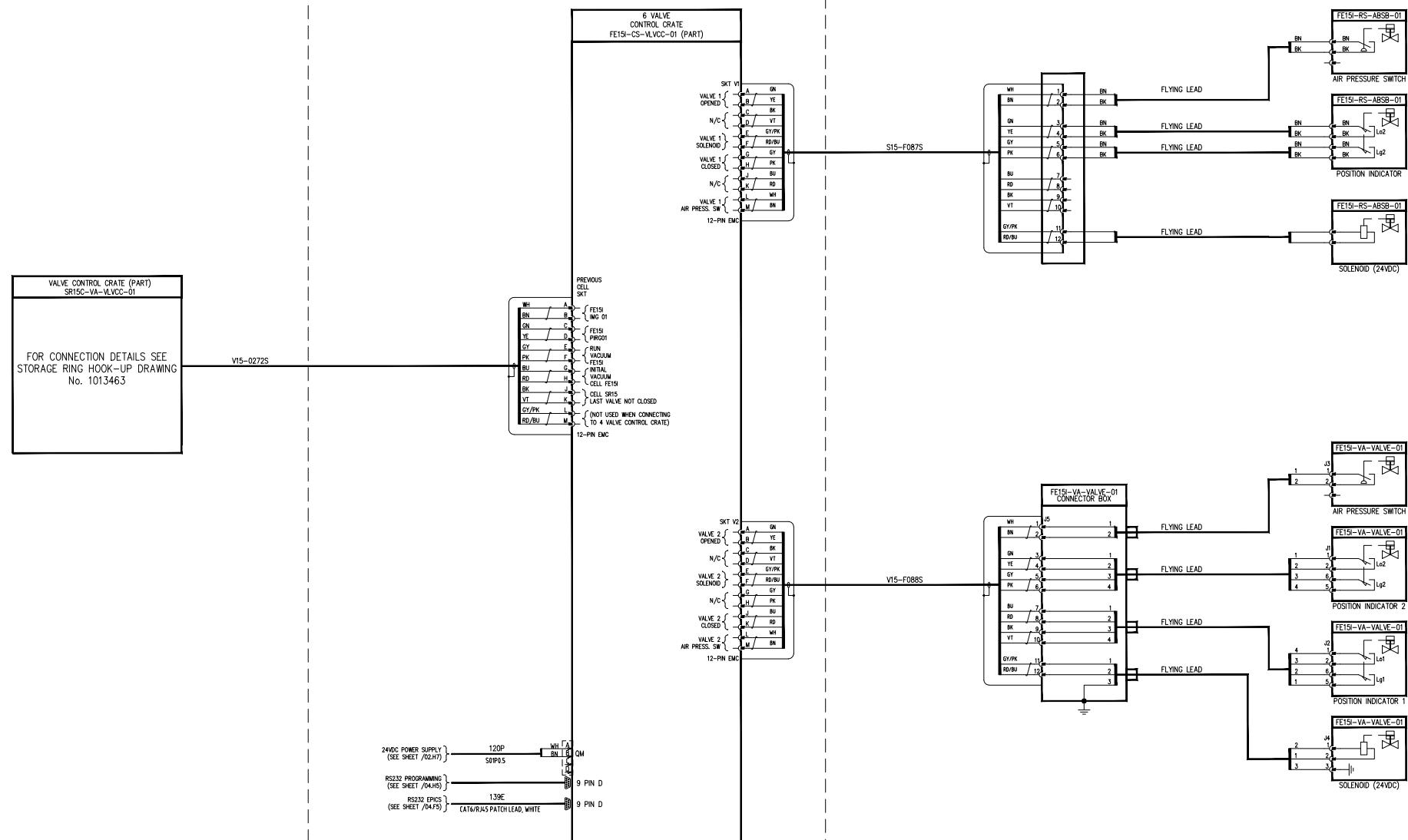
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SECTION 68-1:1993

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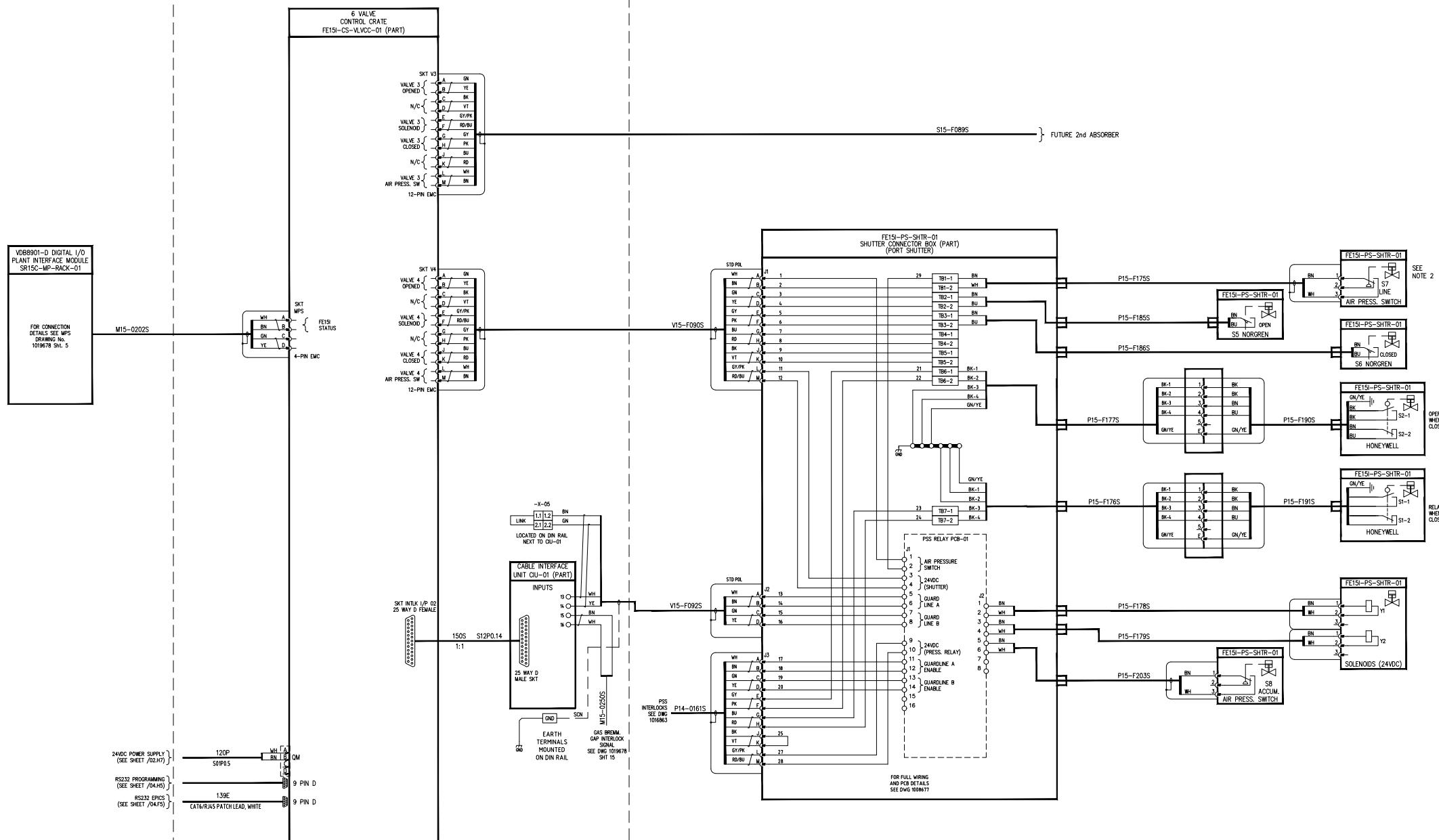
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	APPD DATE	AUTOCAD No.	DRG No.	1166408	SHEET 5 OF 18	REV.	A



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		AUTOCAD	DRG No.	1166408	SHEET 6 OF 18	REV.	A

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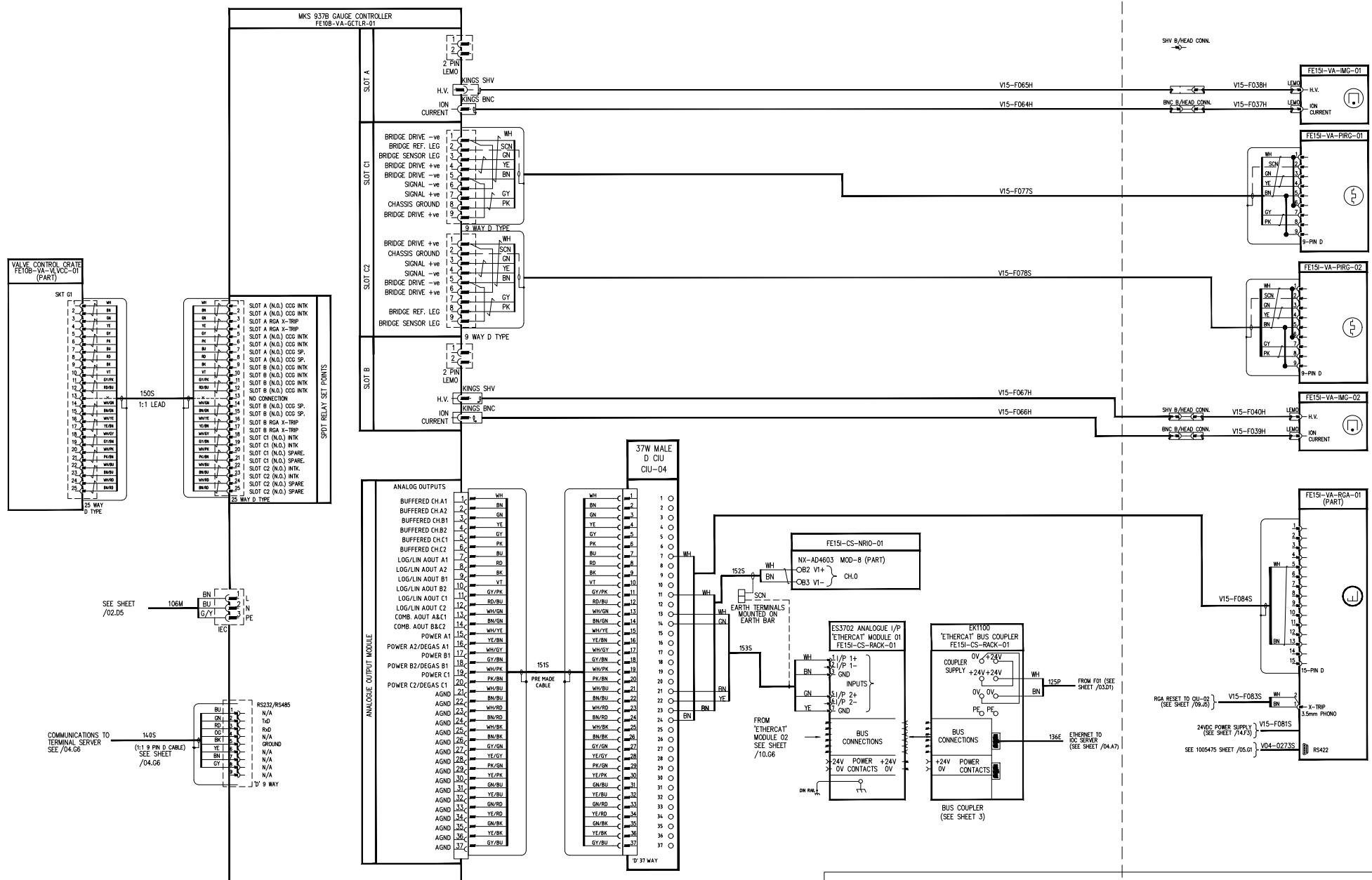
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ALL DIMENSIONS IN mm UNLESS OTHERWISE :

DRG. PRACTICE TO B.S. 8888: 2008. THIRD ANGLE PROJECTION
IN BRANING UNLESS OTHERWISE STATED TO BS EN 22768-1:1993 m

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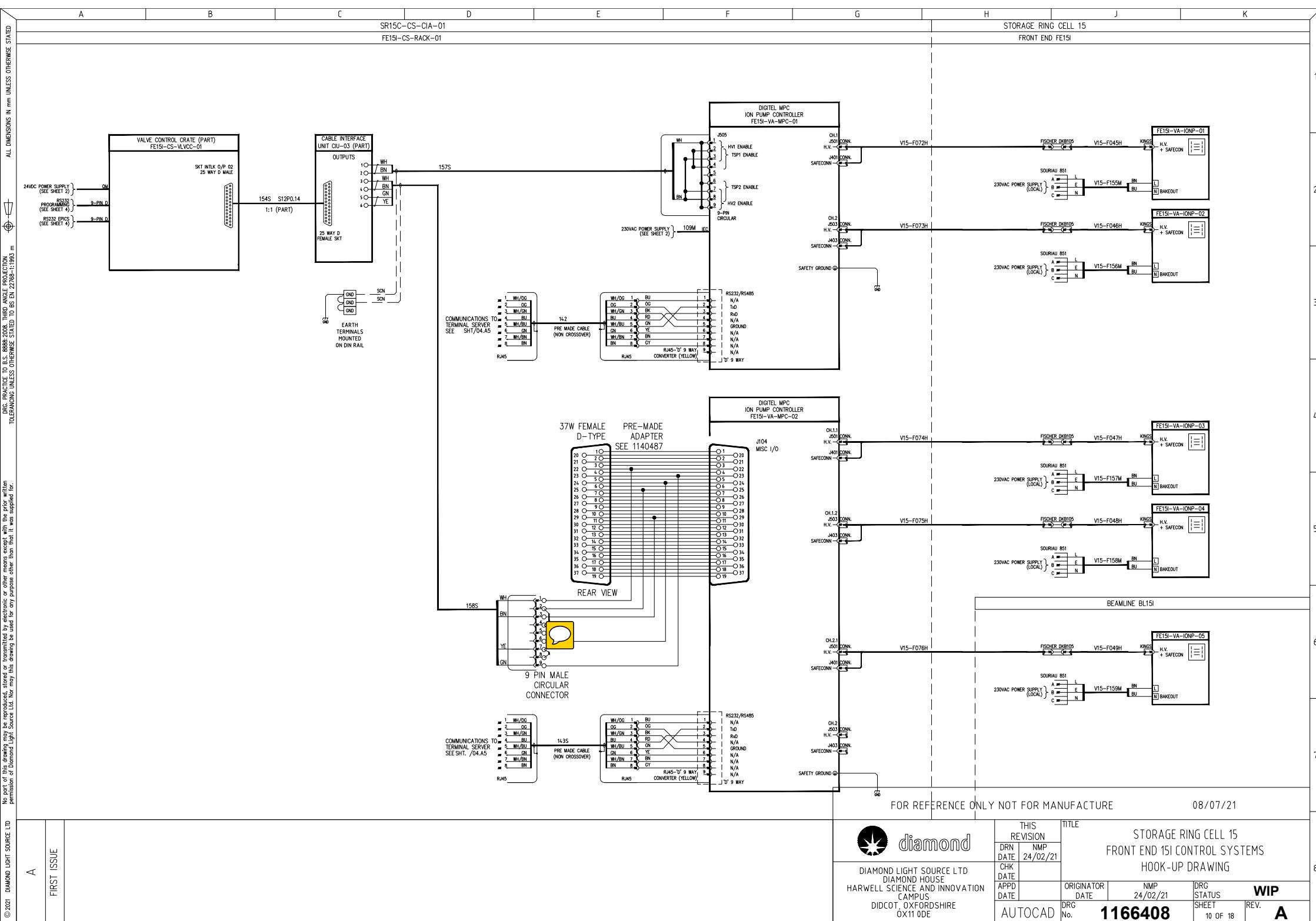
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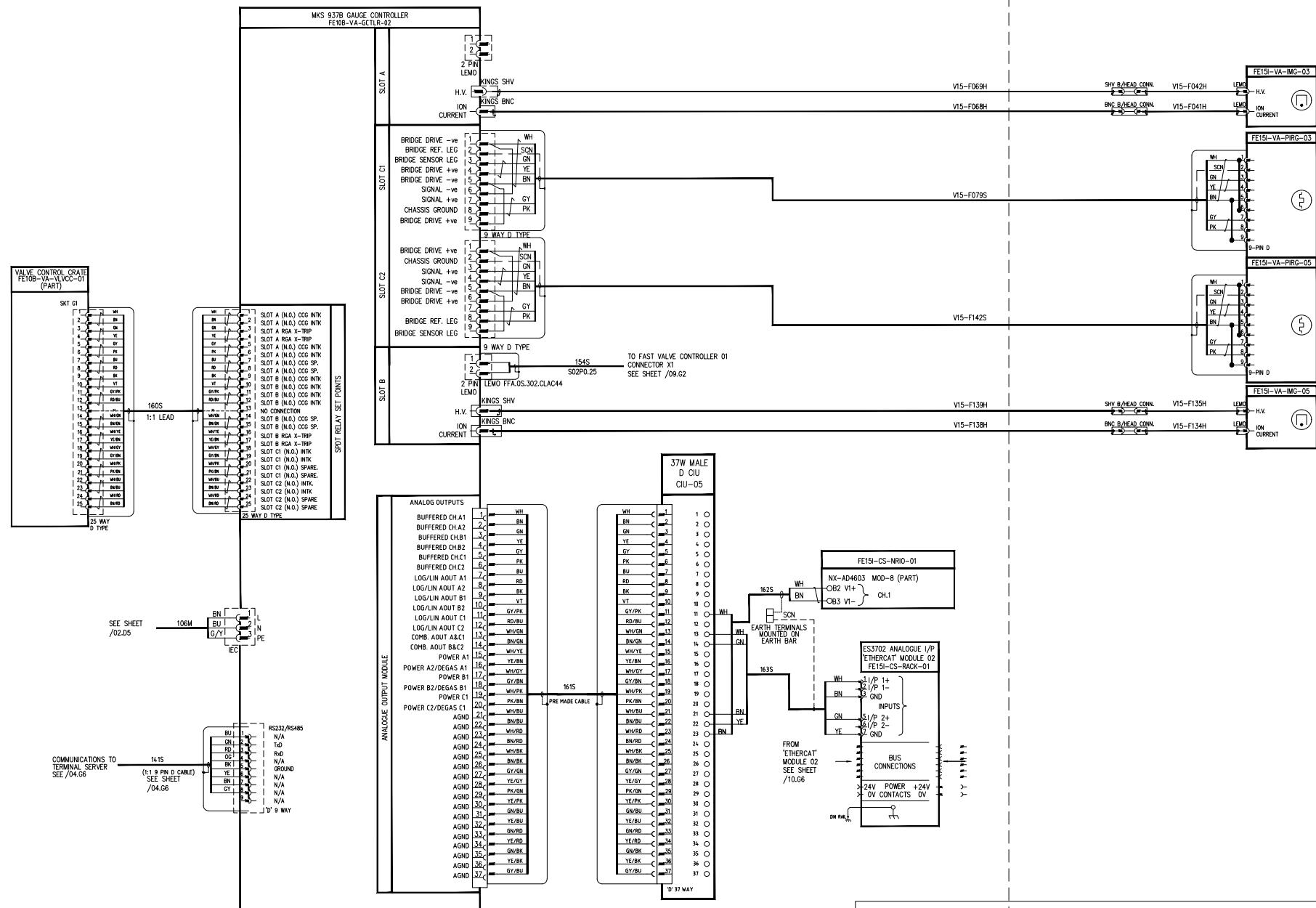
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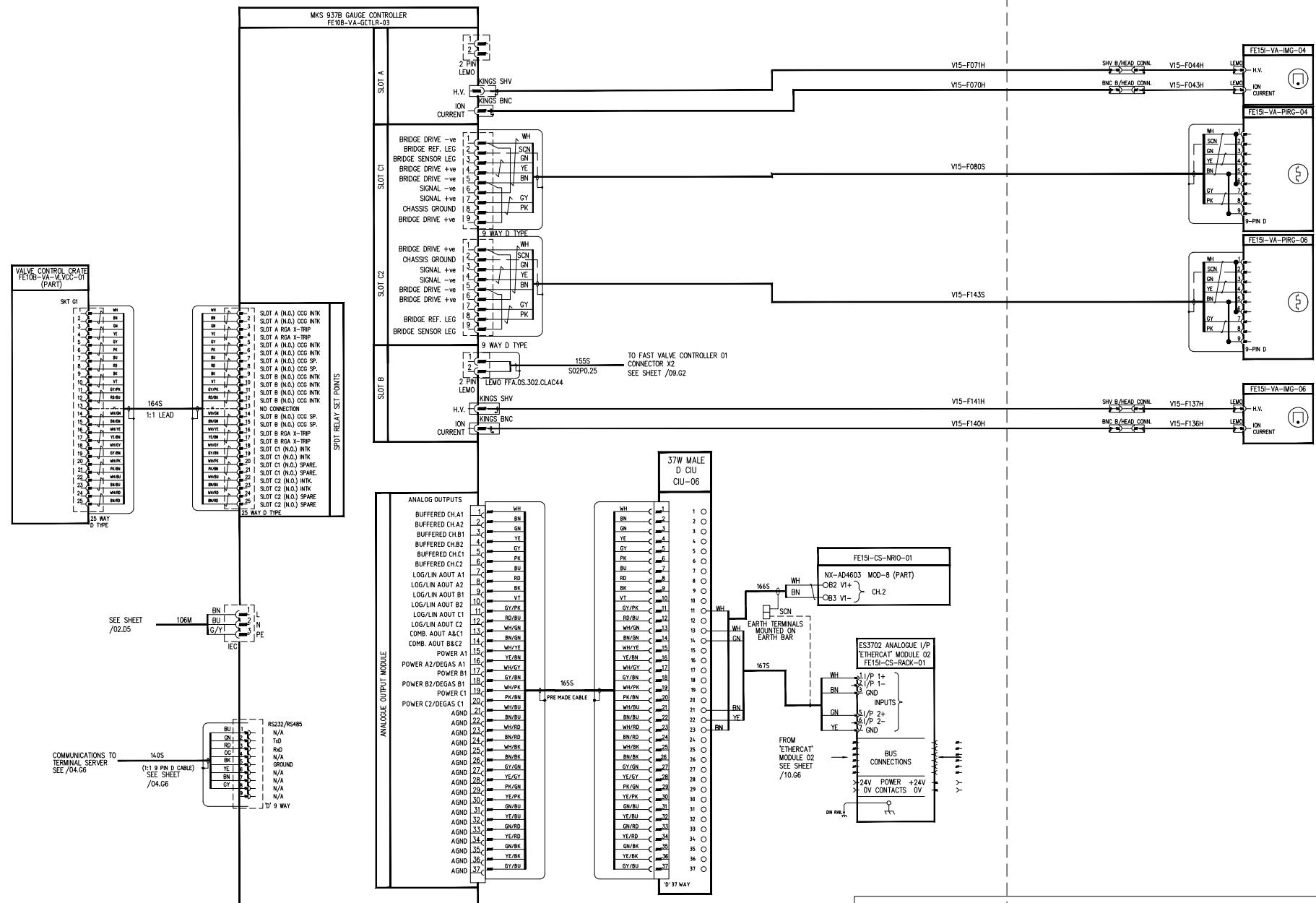
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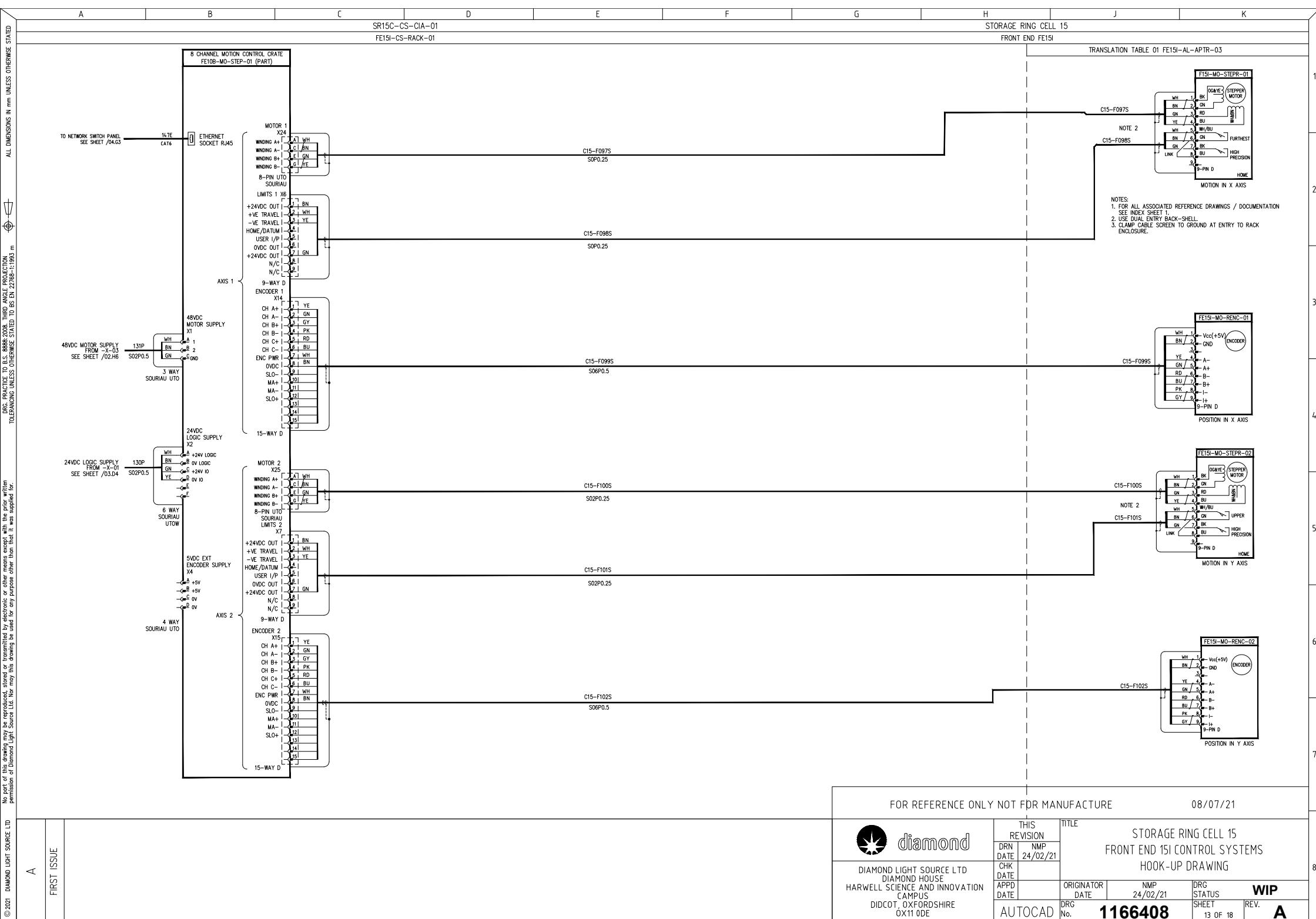
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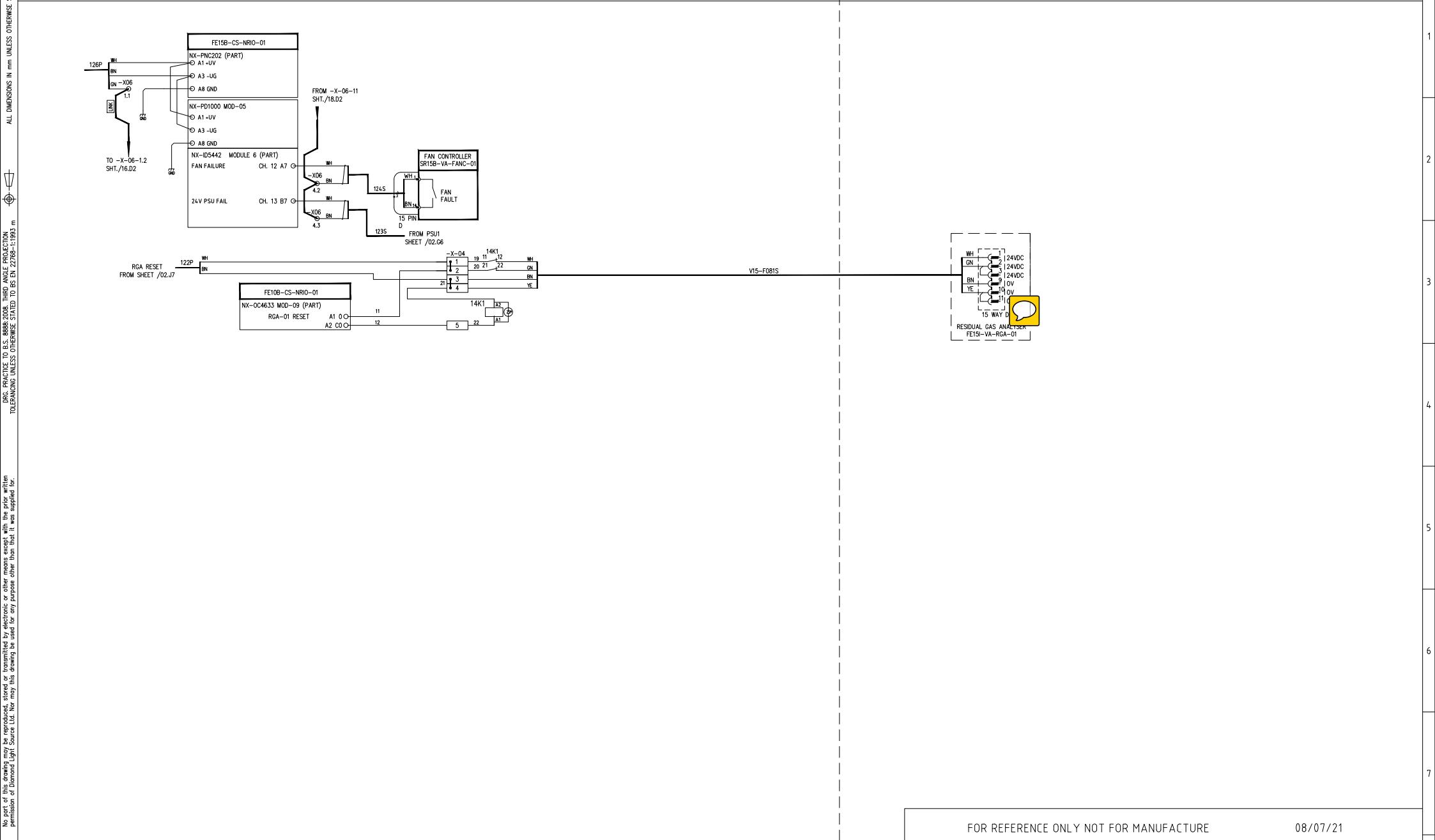
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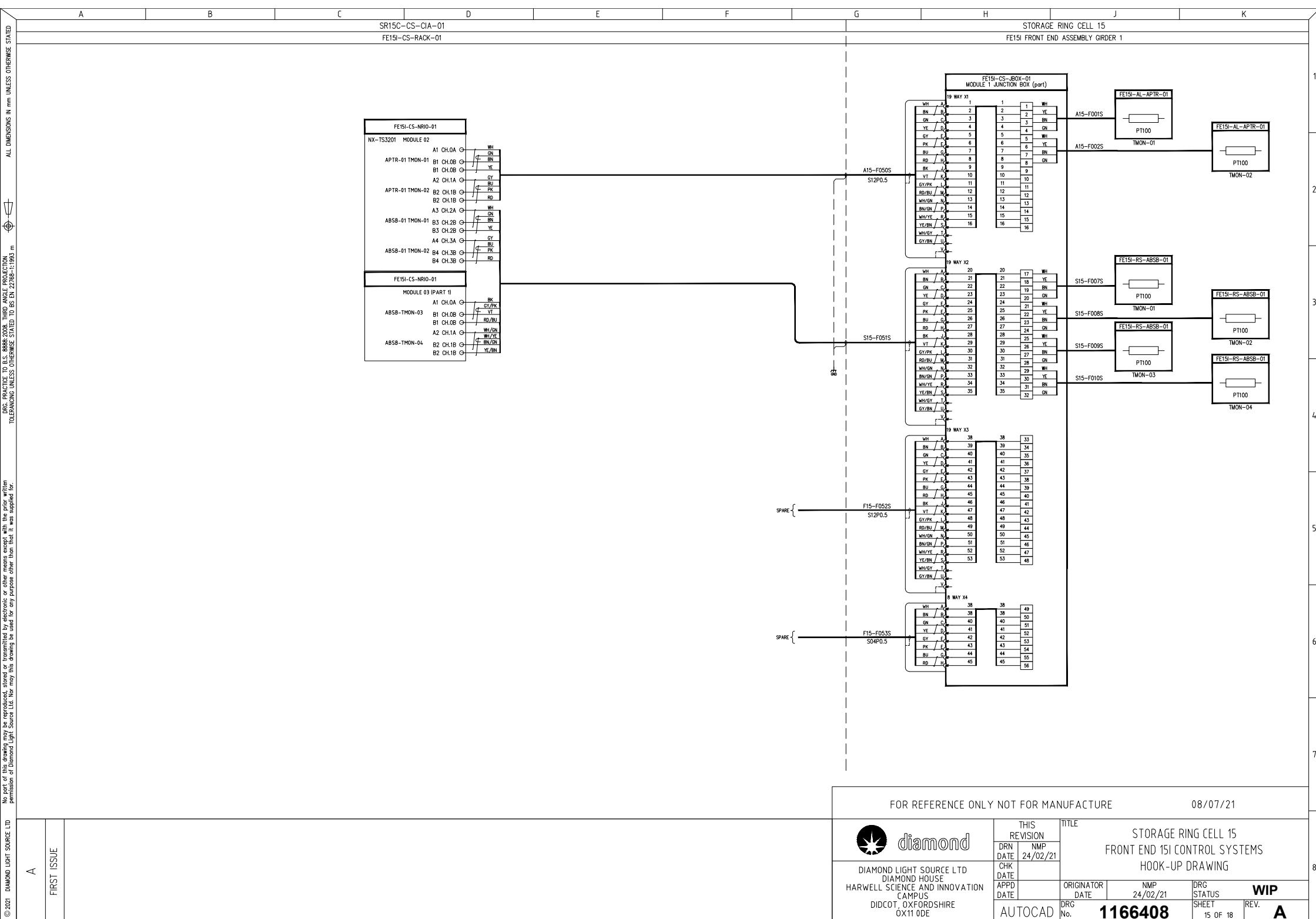
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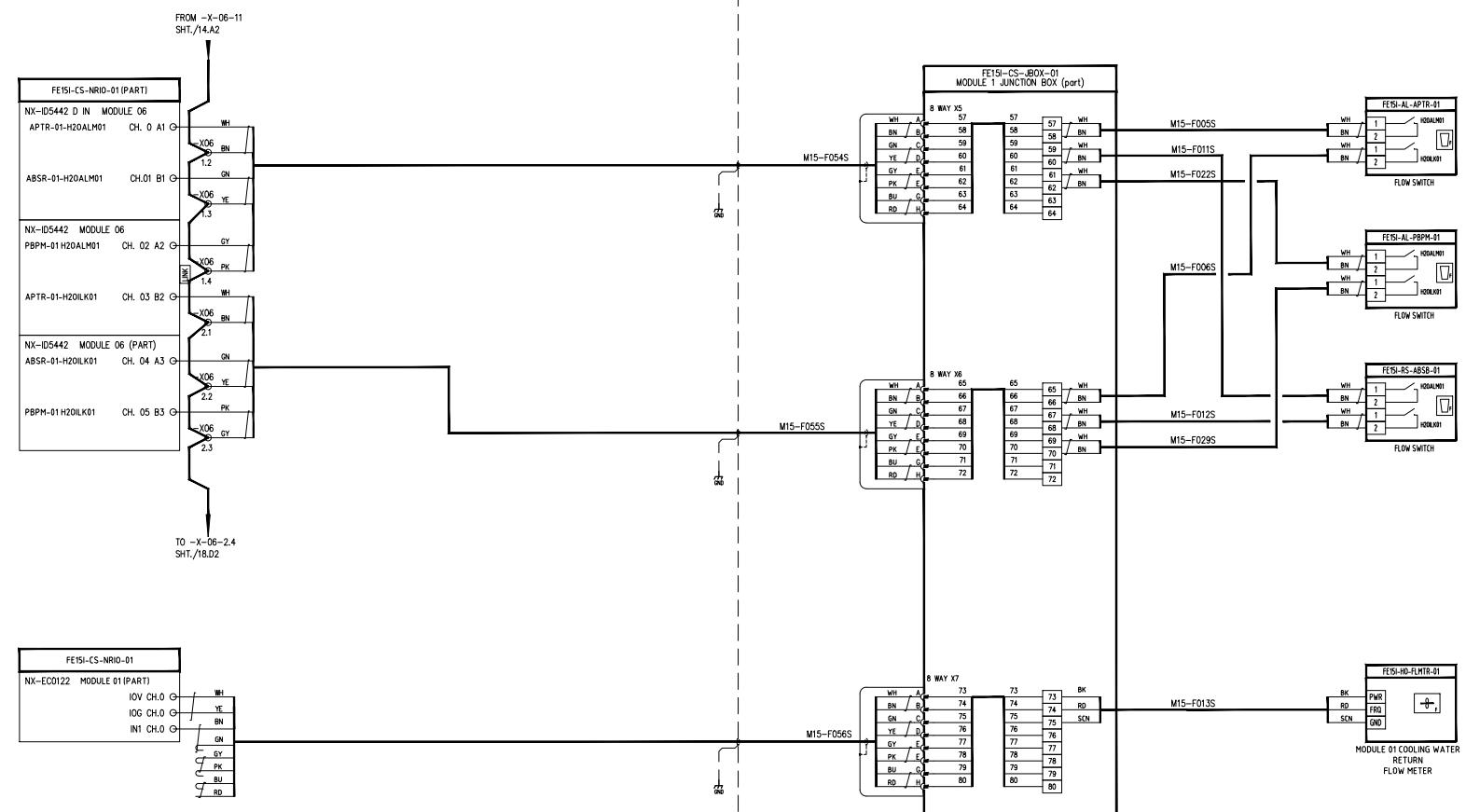
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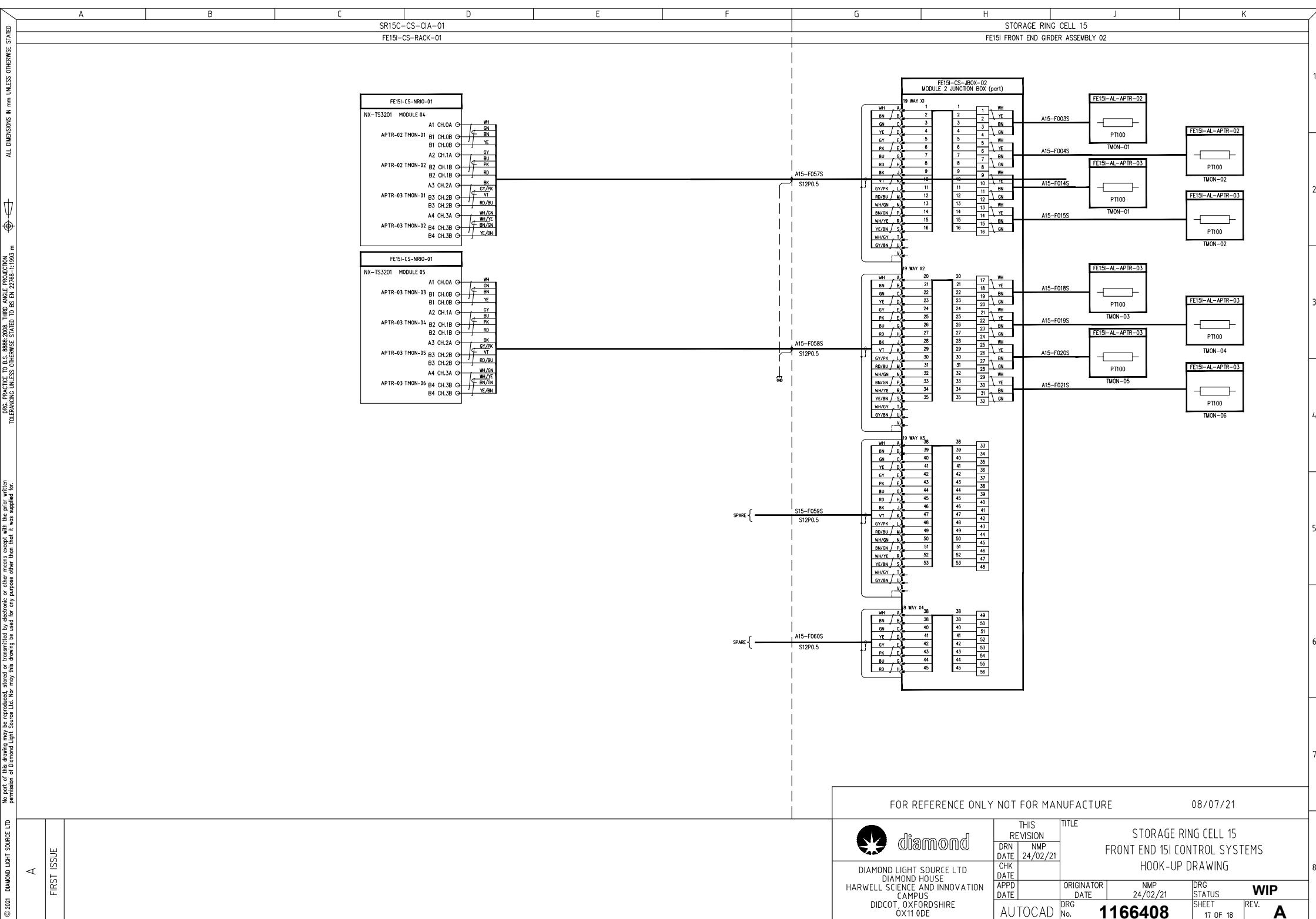
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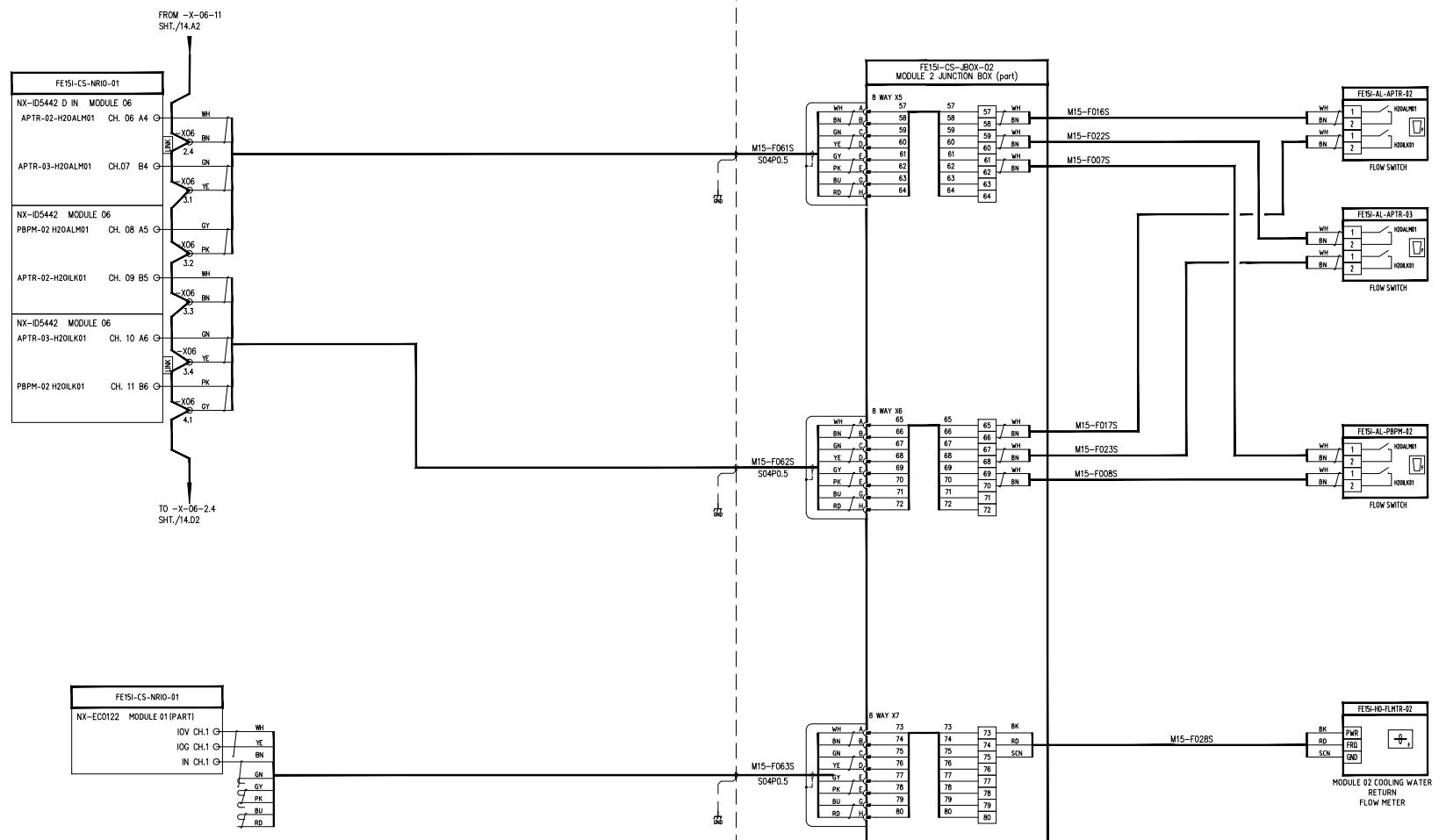
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