

ELECTRIC WIRING DIAGRAM

for the

CNC PRECISION LATHE 

HiT - 15S

ENGLISH VERSION

 **HYUNDAI**
PRECISION & IND.CO.,LTD



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M-CODE LIST			
M-CODE	COMMENT	HT-15/18S	NOTE
48	PARTS CATCHER FORWARD	△	PLC MD 8000.4
49	PARTS CATCHER REVERSE	△	
50			
51			
52			
53			
54			
55	PIECE COUNT		
56	FRONT DOOR OPEN	△	PLC MD 8001.3
57	FRONT DOOR CLOSE	△	
58	AIR BLAST	△	PLC MD 8001.2
59			
60			
61			
62			
63			
64			
65			
66			
67			
68	BAR CHANGE ON	△	
69	BAR CHANGE OFF	△	
70	SPINDLE JOG WITH LOADING NEW BAR ON	△	PLC MD 8002.3
71	SPINDLE JOG WITH LOADING NEW BAR OFF	△	
72	M72 OPTION M-CODE	△	
73	M73 OPTION M-CODE	△	
74	M74 OPTION M-CODE	△	
75	M75 OPTION M-CODE	△	
76	M76 OPTION M-CODE	△	
77	M77 OPTION M-CODE	△	
78	M78 OPTION M-CODE	△	
79	M79 OPTION M-CODE	△	
80			
81	WORK MEASURE AIR BLAST ON		
82	WORK MEASURE AIR BLAST OFF		
83	TOOL EYE ARM FORWARD	○	
84	TOOL EYE ARM REVERSE	○	
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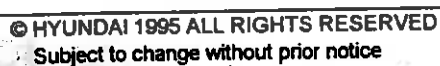
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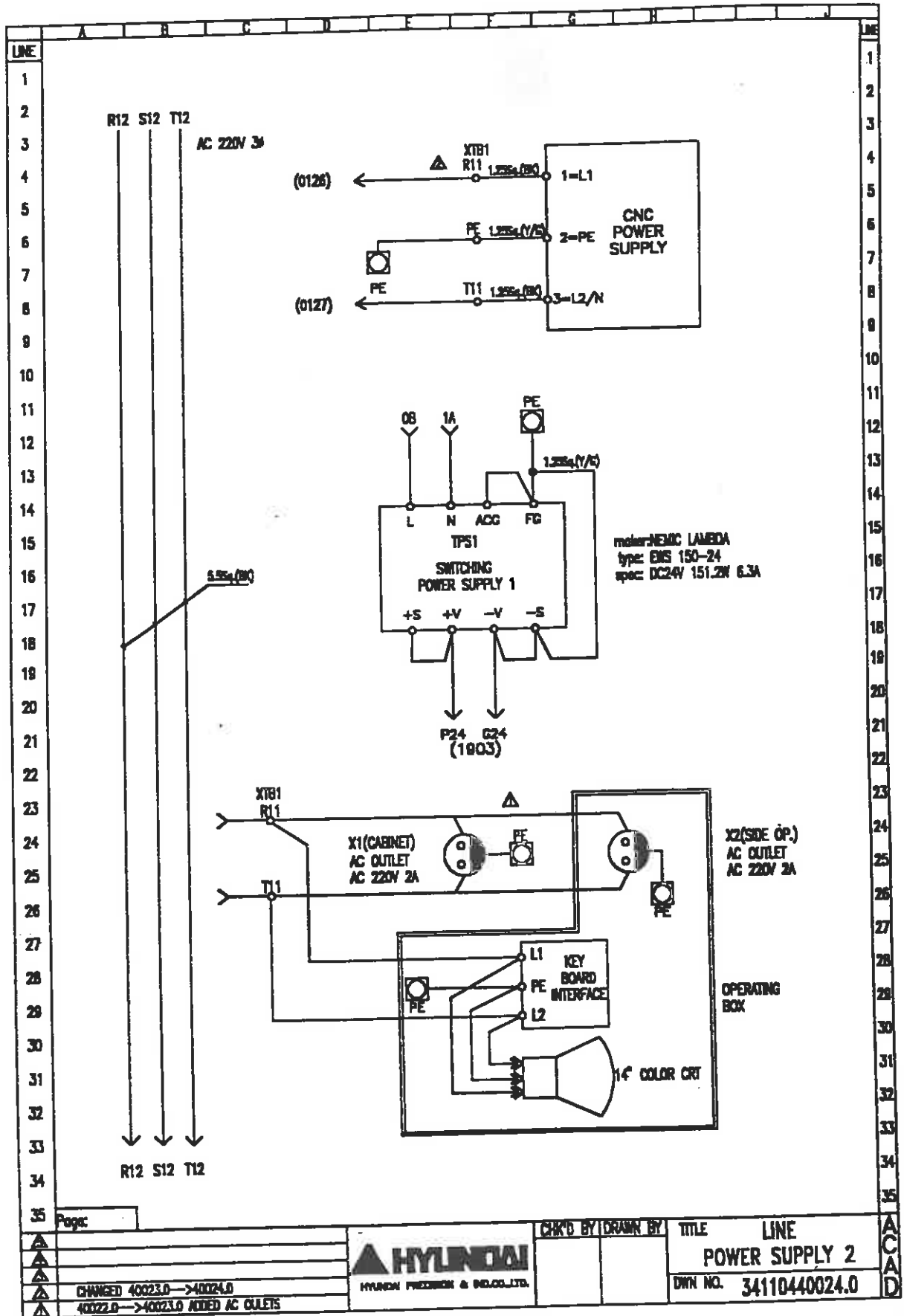
SHEET	TITLE
4001	LINE POWER SUPPLY 1
4002	LINE POWER SUPPLY 2
4003	3 ϕ MOTOR CONNECTION 1
4004	3 ϕ MOTOR CONNECTION 2
4005	INFED/REGENERATIVE MODULE CIRCUIT
4006	SPINDLE MODULE CONNECTION
4007	CNC $\longleftrightarrow$ I/R MODULE CONNECTION
4008	I/R, SPINDLE MODULE SIGNAL CIRCUIT
4009	SPINDLE POSITION CODER
4010	X-AXIS MOTOR CONNECTION
4011	Z-AXIS MOTOR CONNECTION
4012	AC 110V LINE CIRCUIT -1
4013	AC 110V LINE CIRCUIT 2
4014	AC 110V LINE CIRCUIT 3
4015	AC 110V LINE CIRCUIT 4
4016	AC 110V LINE CIRCUIT 5
4017	AC 110V LINE CIRCUIT 6
4018	AC 110V LINE CIRCUIT 7
4019	DC LINE CIRCUIT 1
4020	DC LINE CIRCUIT 2
4021	DC LINE CIRCUIT 3
4022	DC LINE CIRCUIT 4
4023	DMP DC POWER SUPPLY
4024	DMP INPUT 1(I00.0)
4025	DMP INPUT 2(I01.0)
4026	DMP INPUT 3(TURRET)
4027	DMP INPUT 4(I03.0)
4028	DMP INPUT 5(I04.0)
4029	DMP INPUT 6(I05.0)
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4033	DMP OUTPUT 2(Q01.0)
4034	DMP OUTPUT 3(Q02.0)
4035	DMP OUTPUT 4(Q03.0)
4036	DMP OUTPUT 5(OPTION)
4037	DMP OUTPUT 6(OPTION)
4038	OPTION RELAY OUTPUT(P.C.B.)
4039	DMP COMPACT MODULE LAY-OUT
4040	PLC 135WD CONNECTION
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4042	C.S.B. CONNECTION
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4045	CABINET EARTH LINE CONNECTION

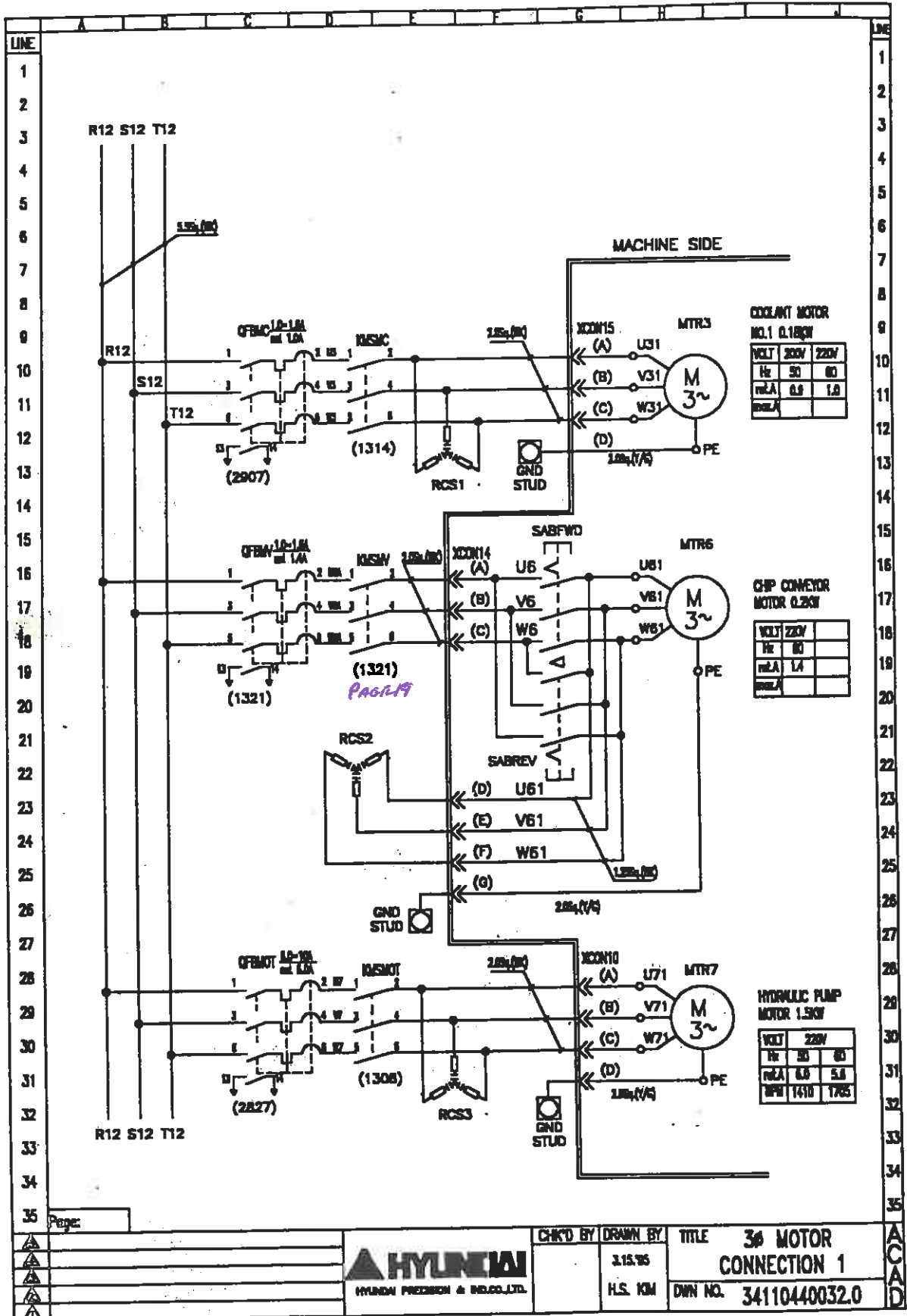
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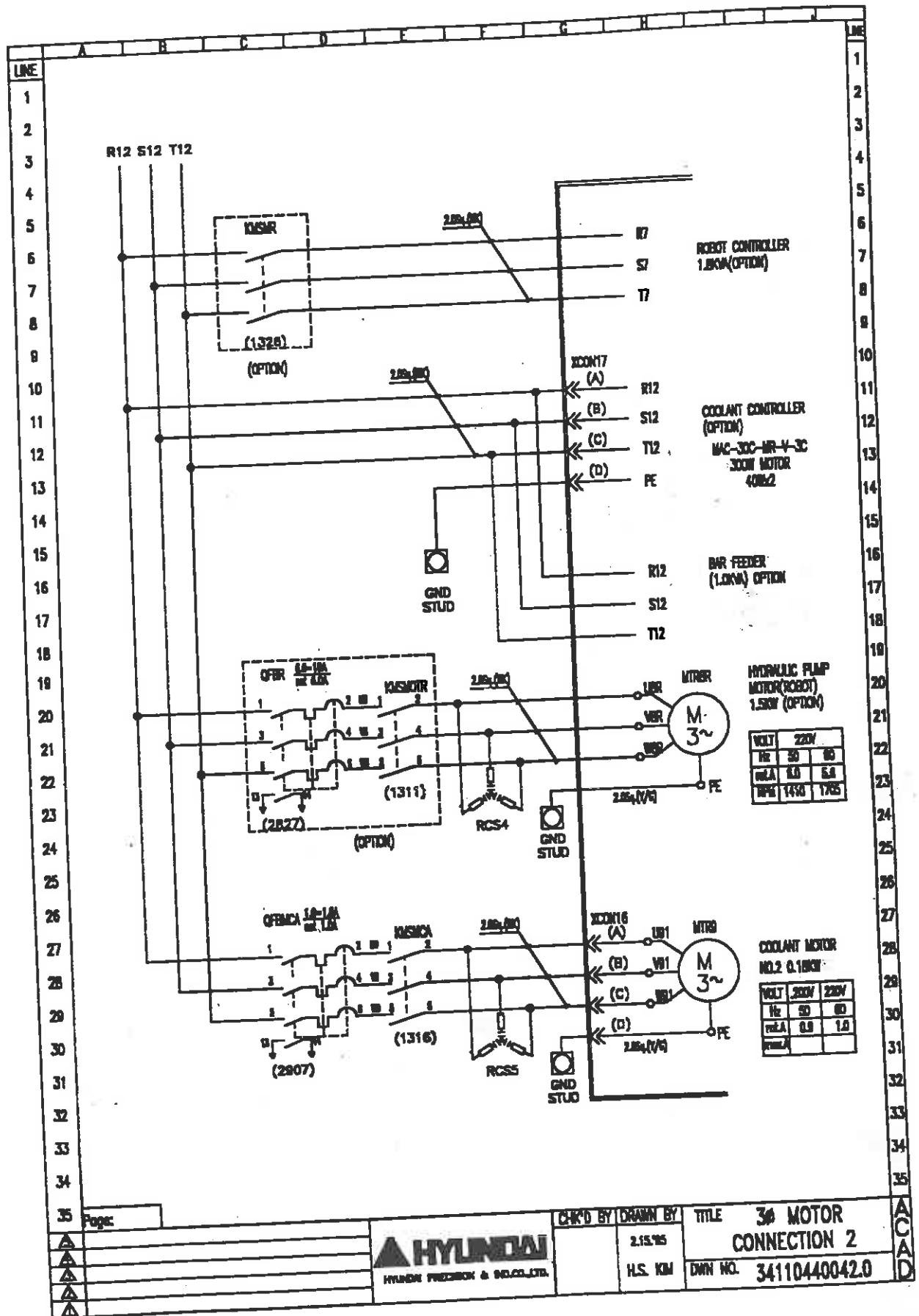
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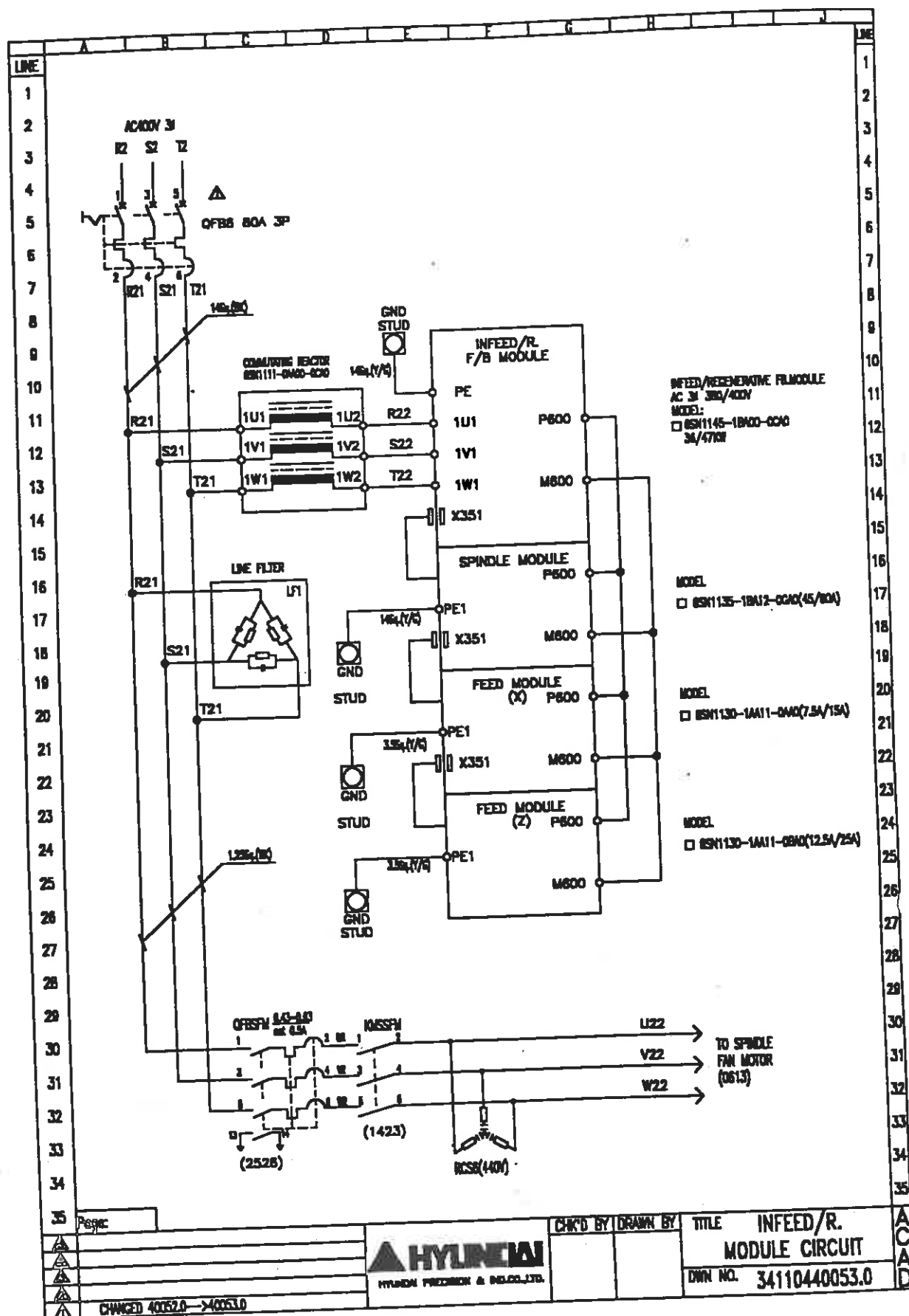


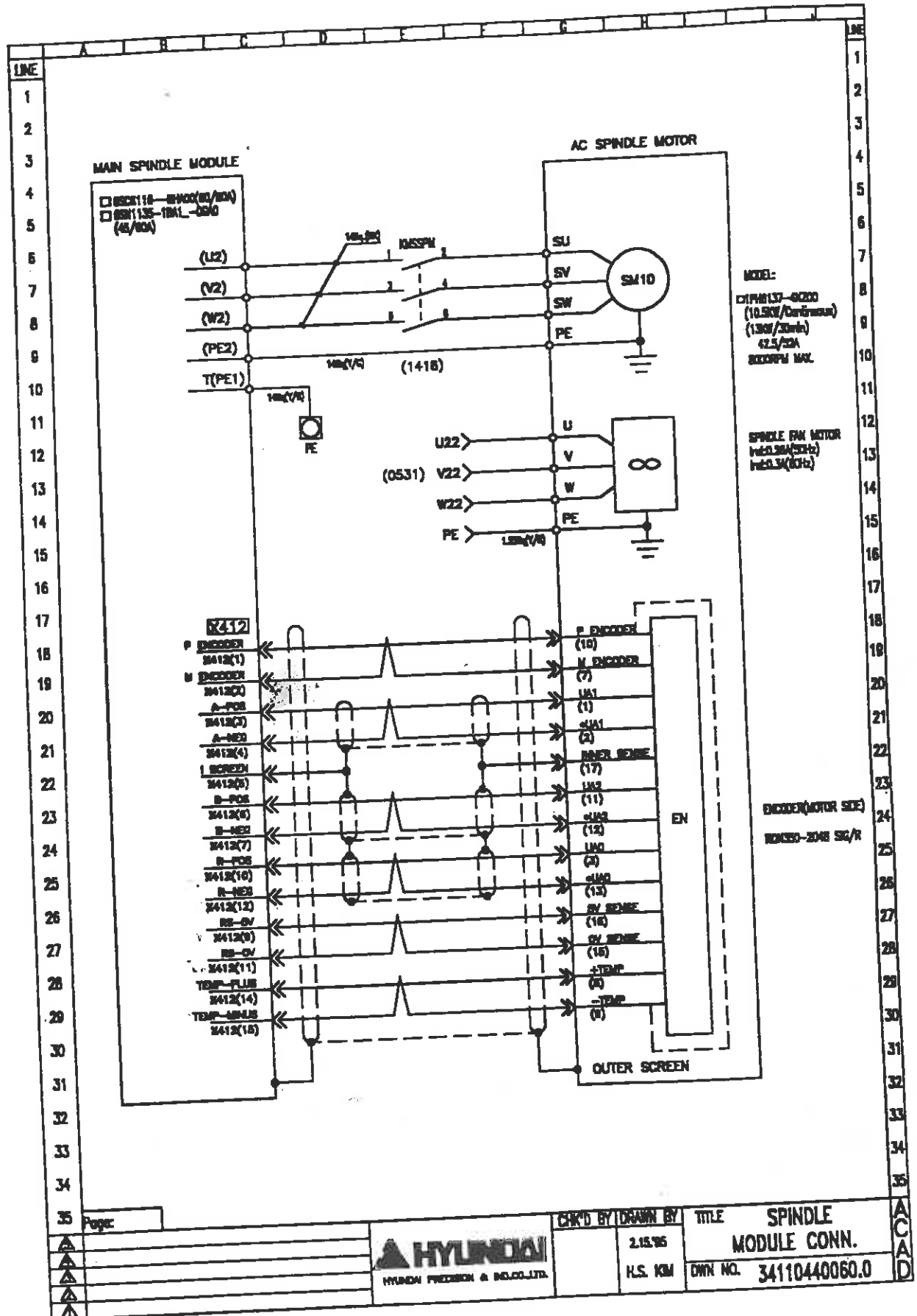


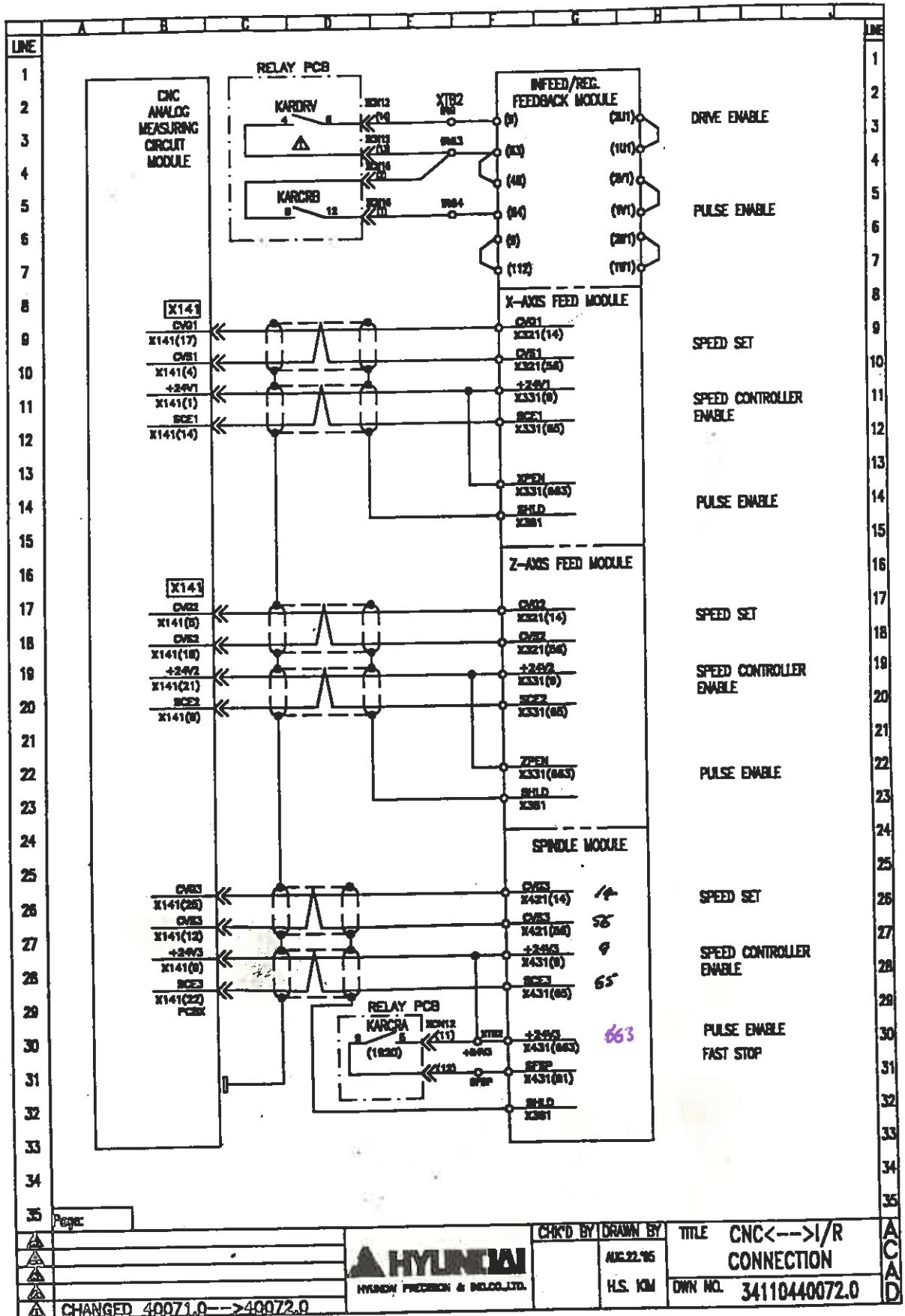


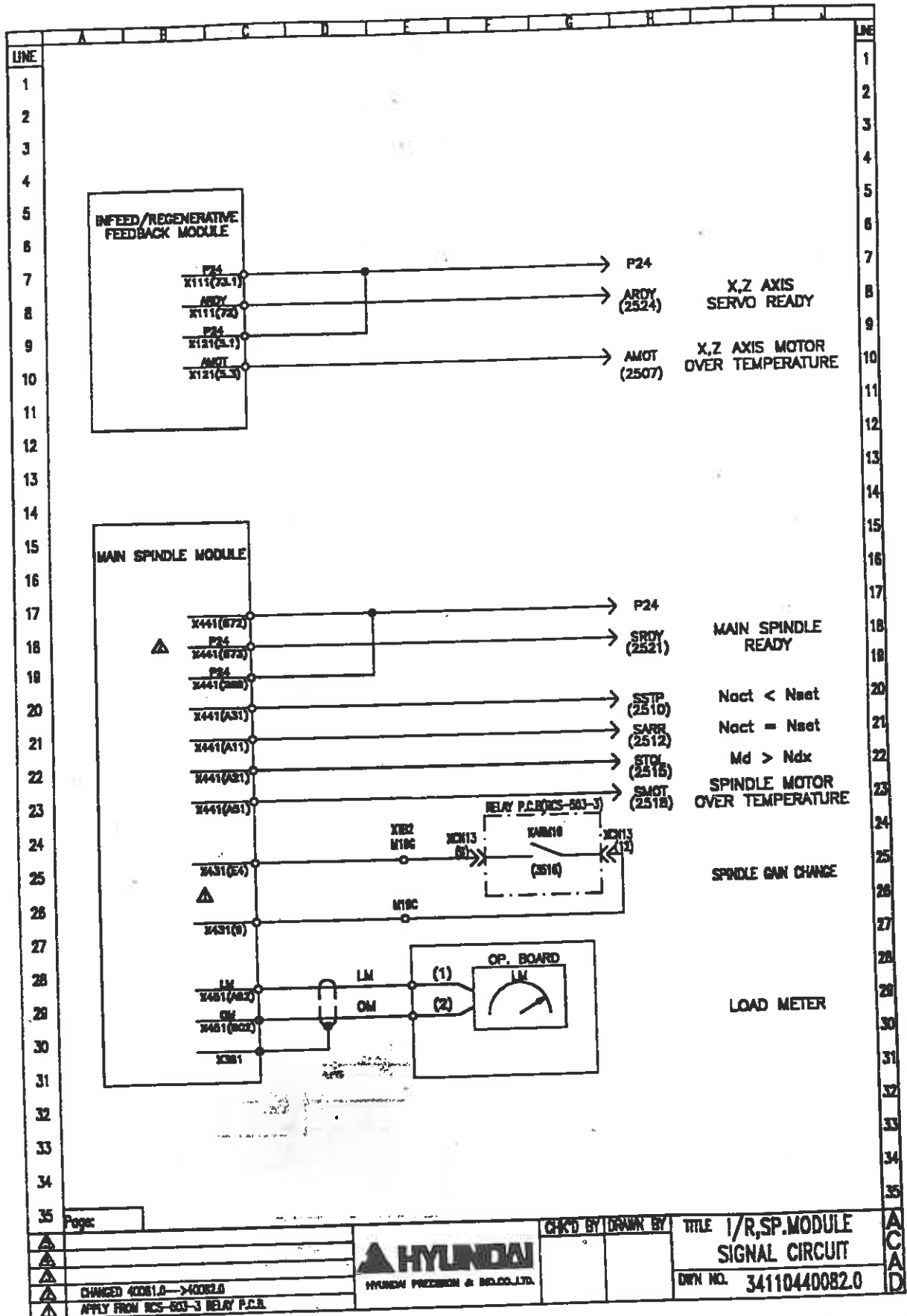
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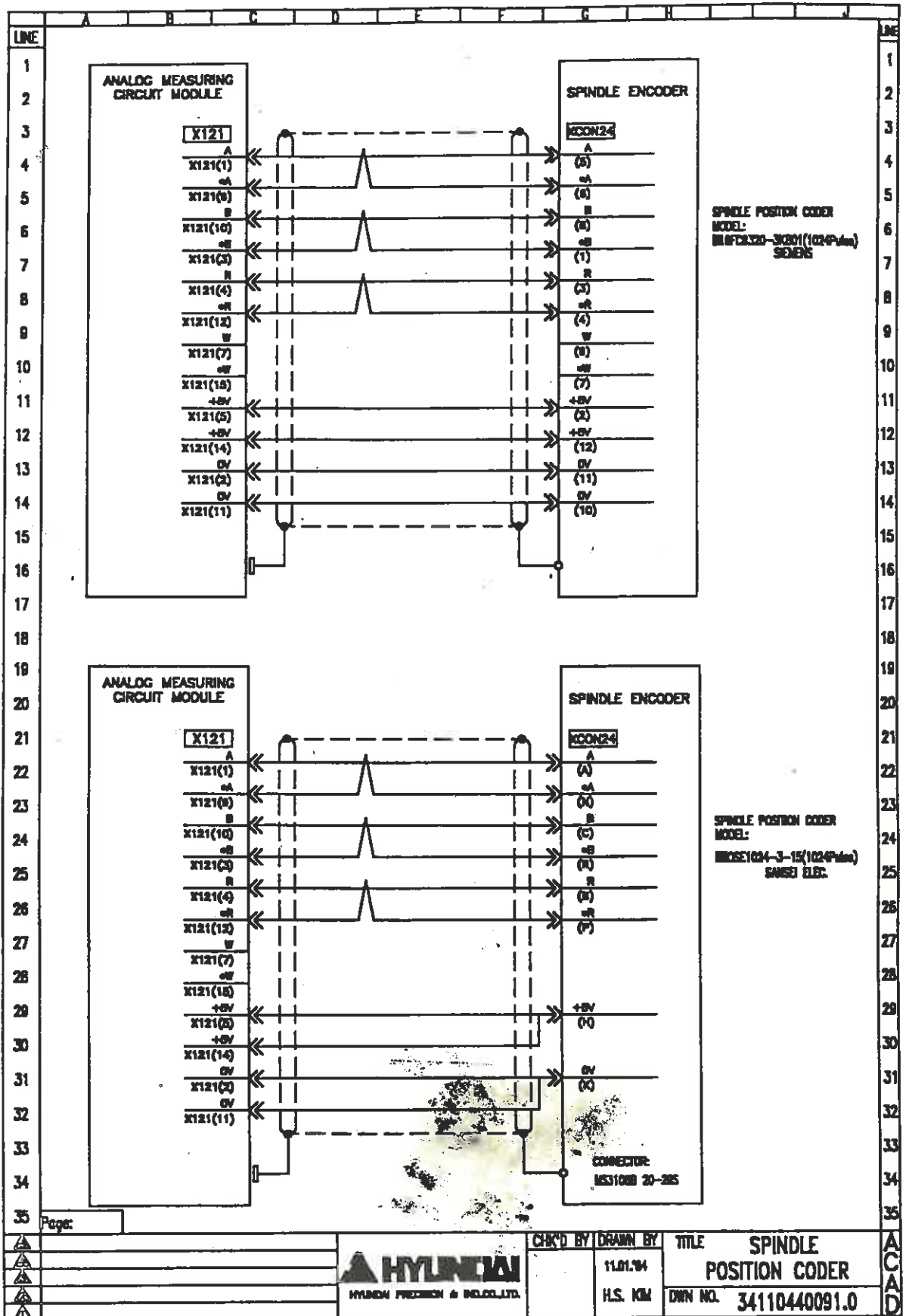


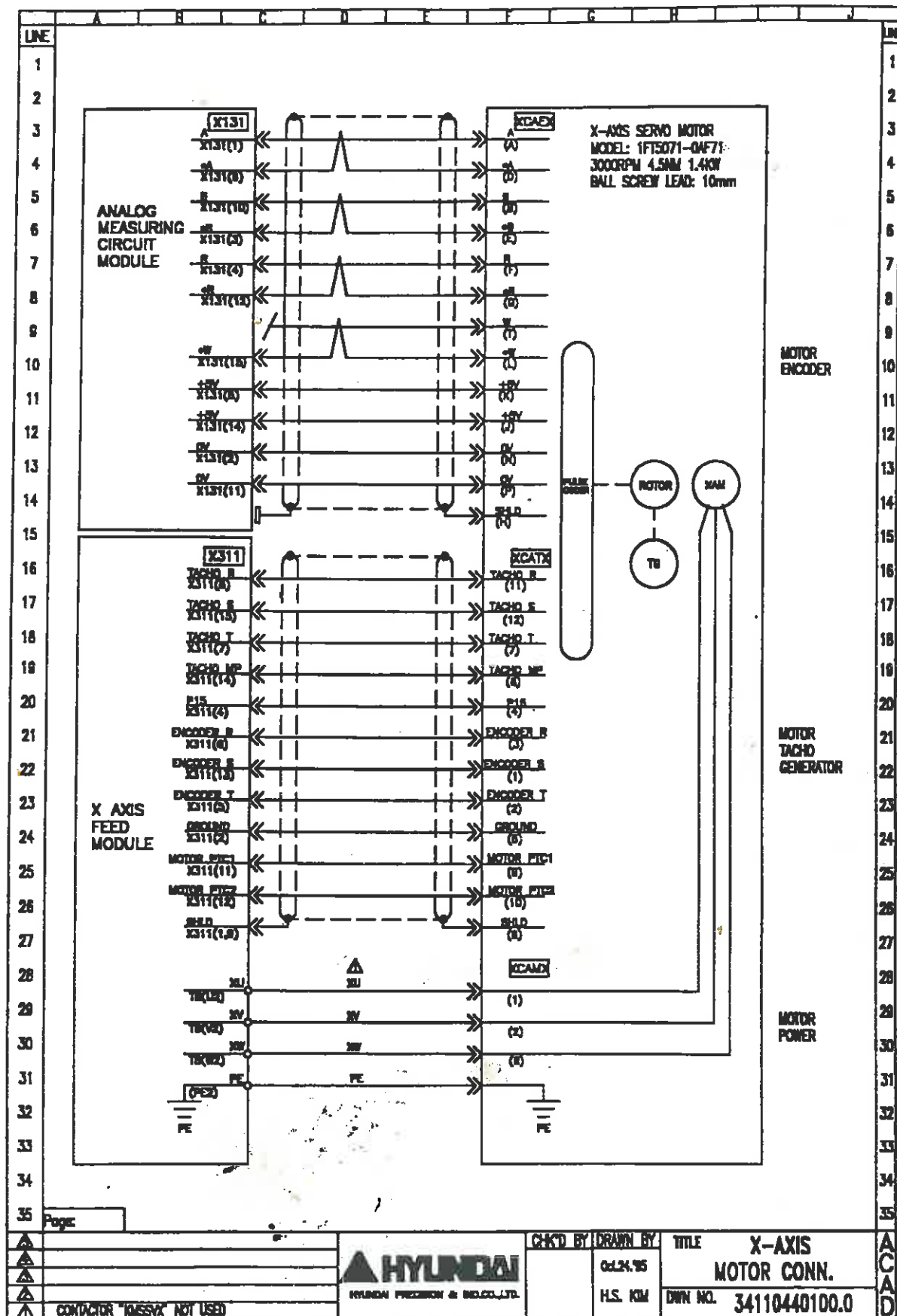


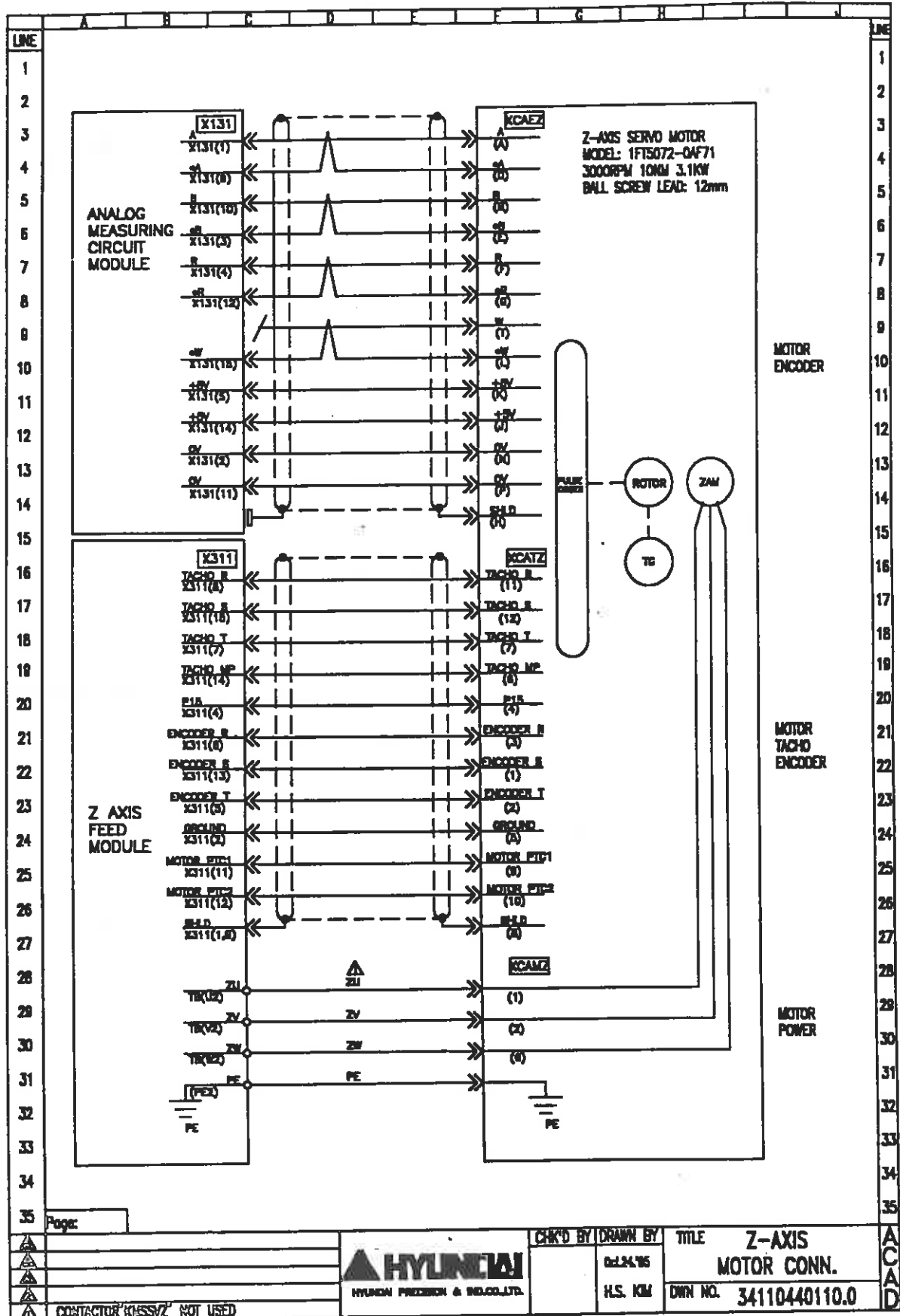


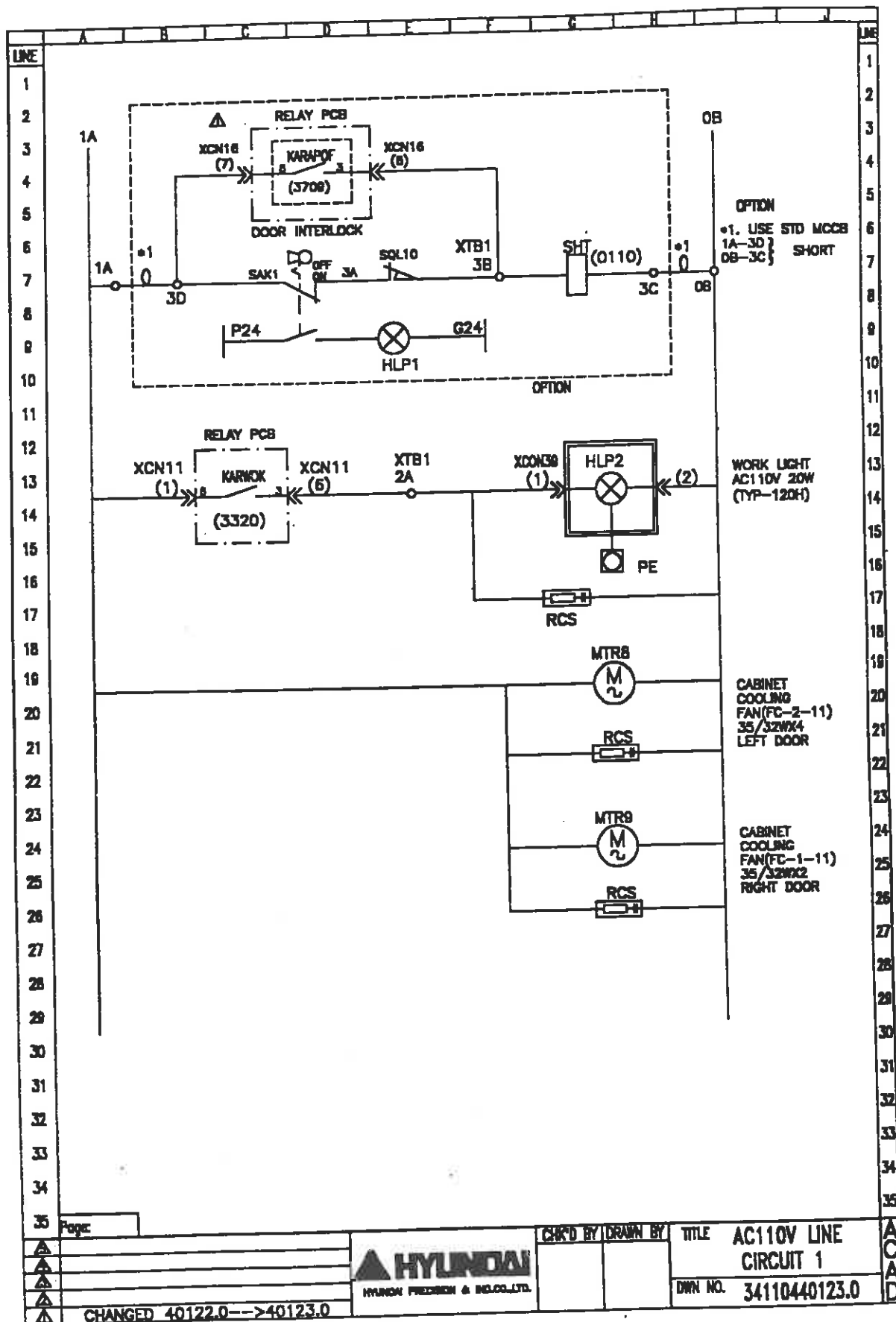


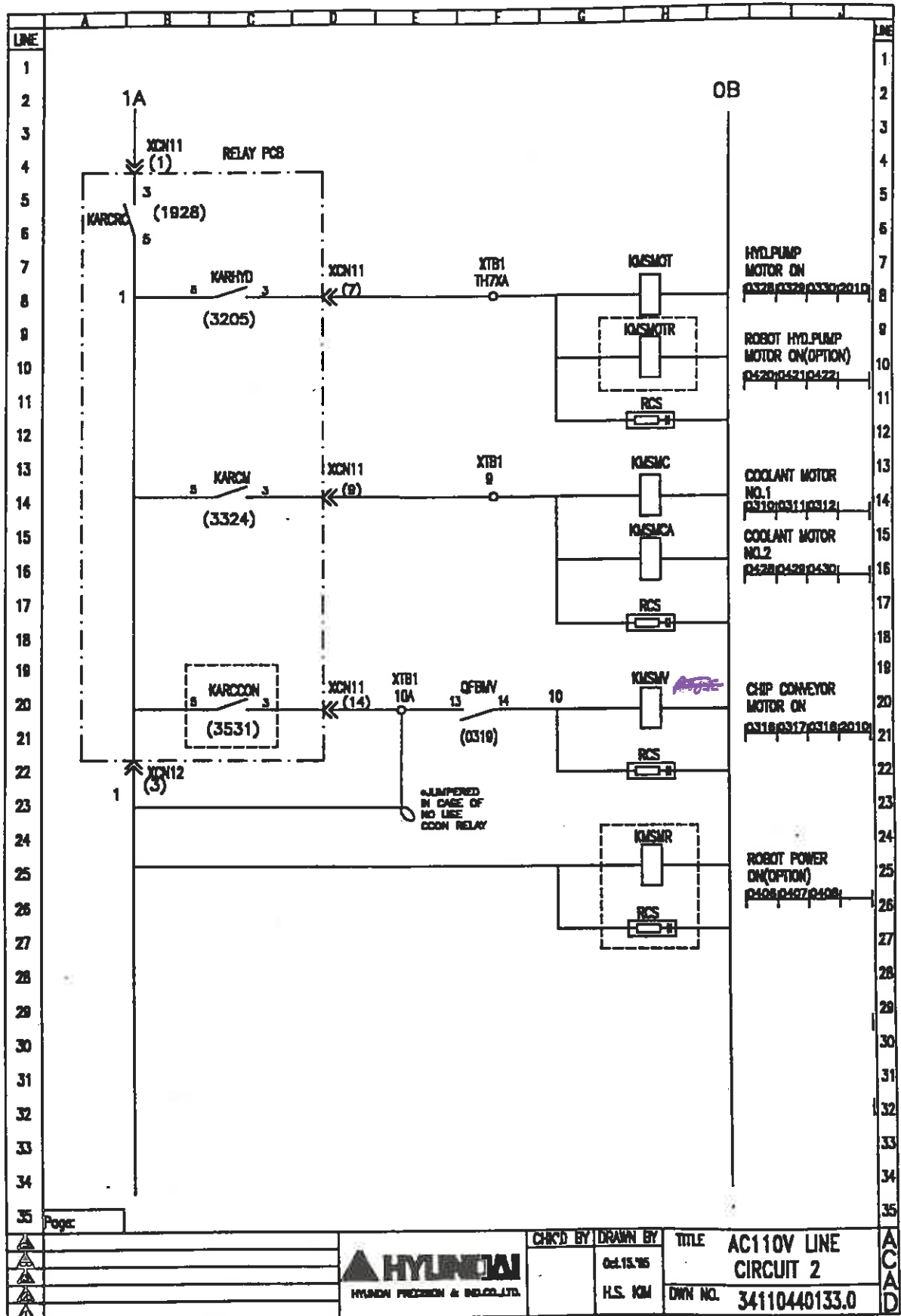


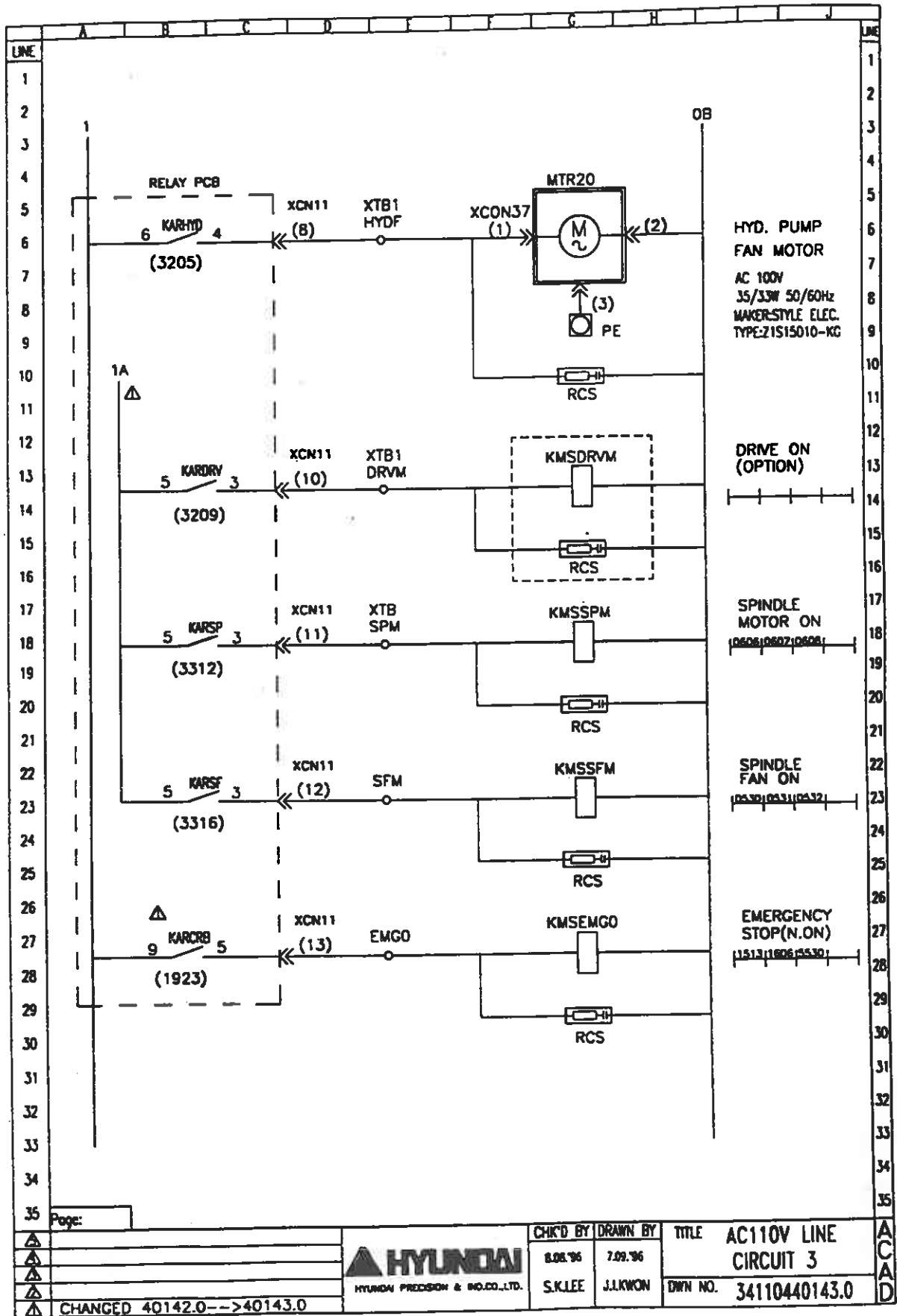


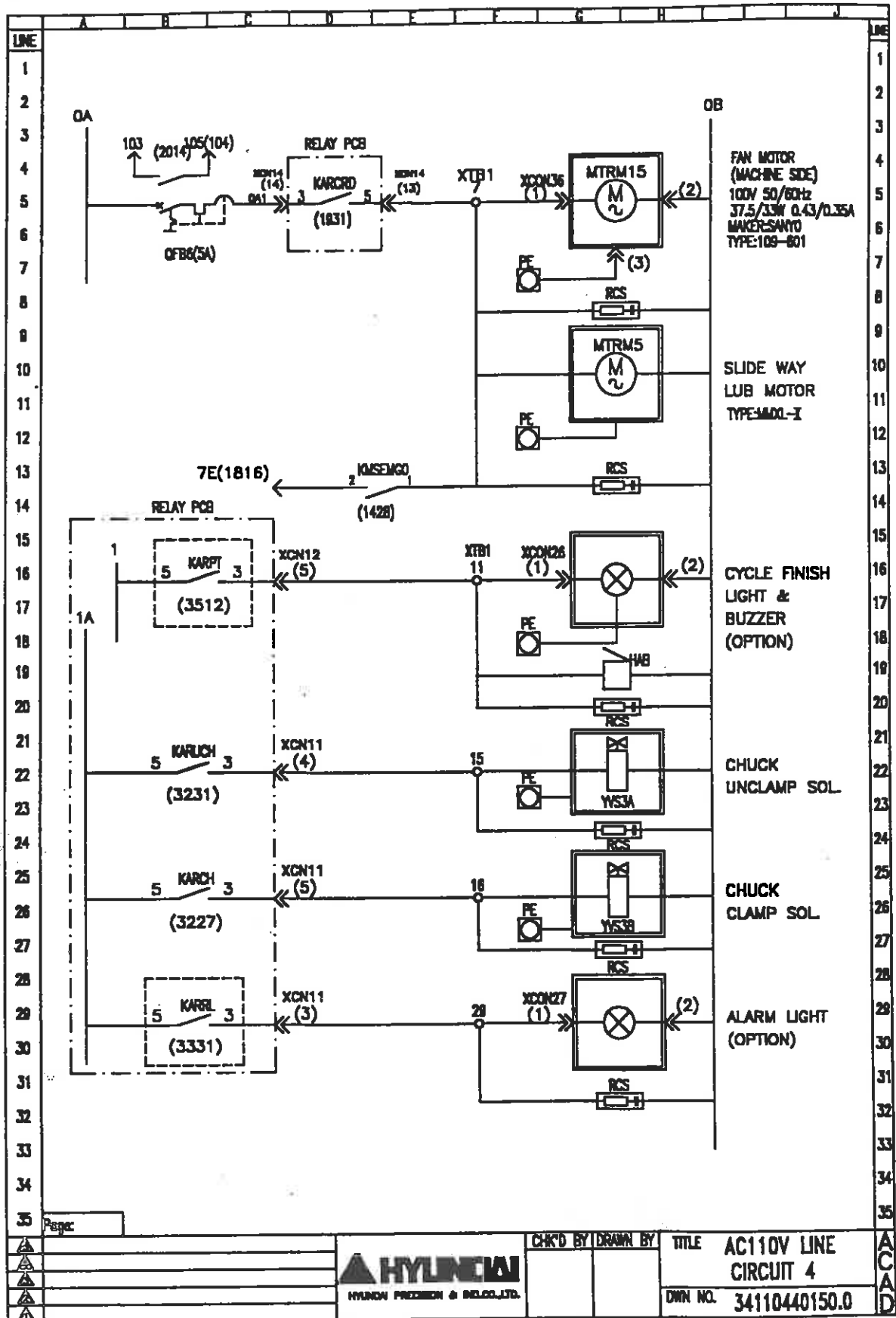


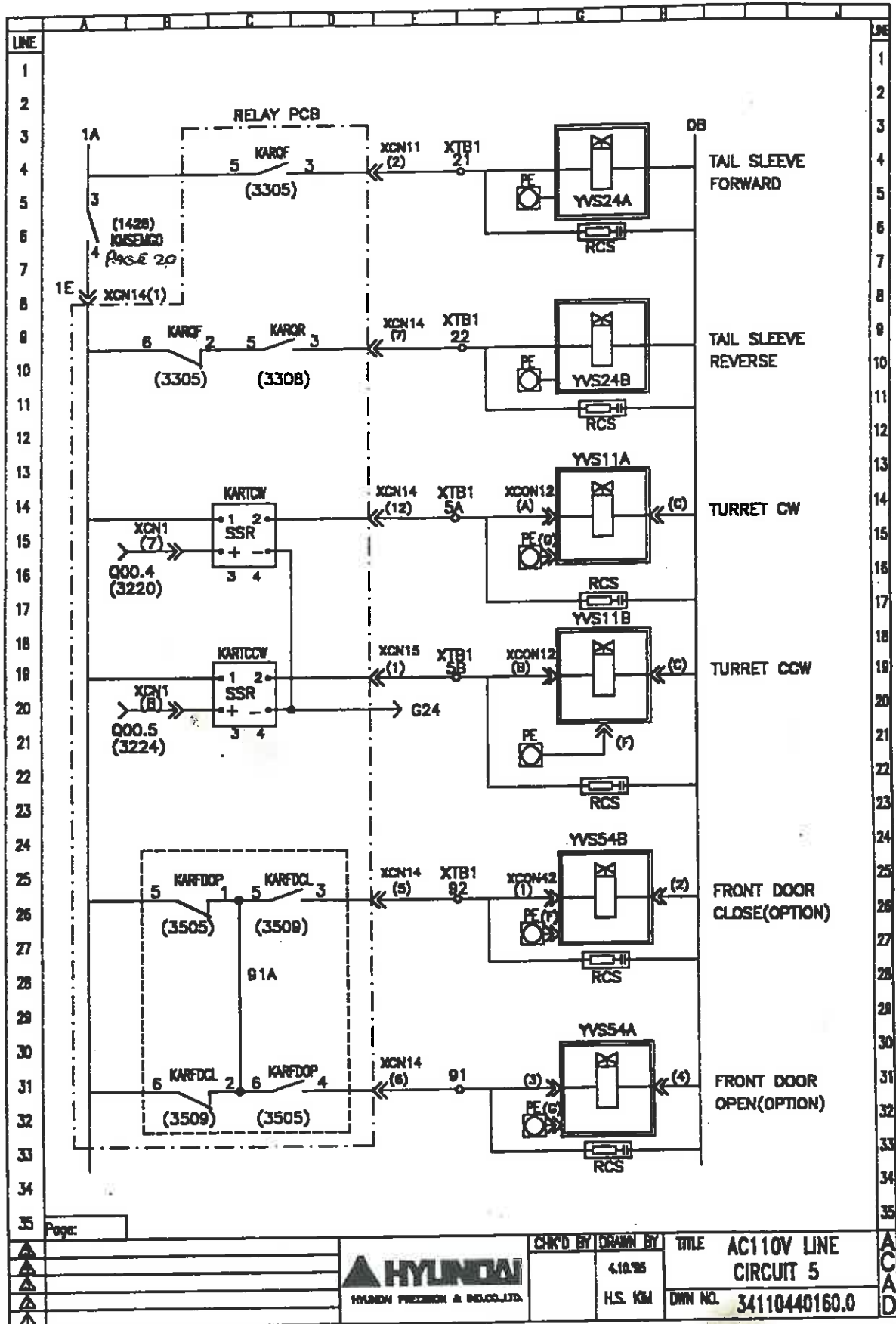


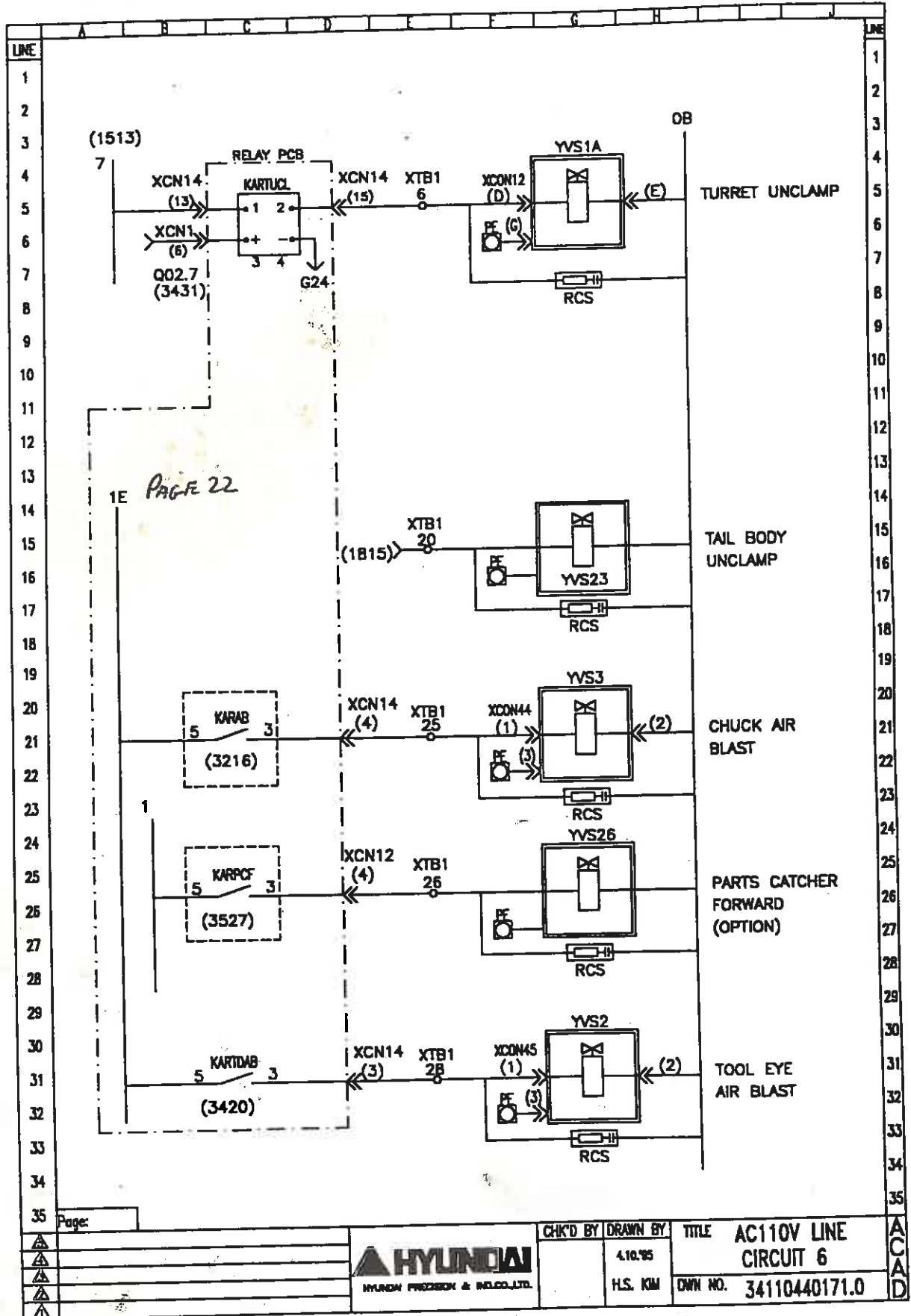


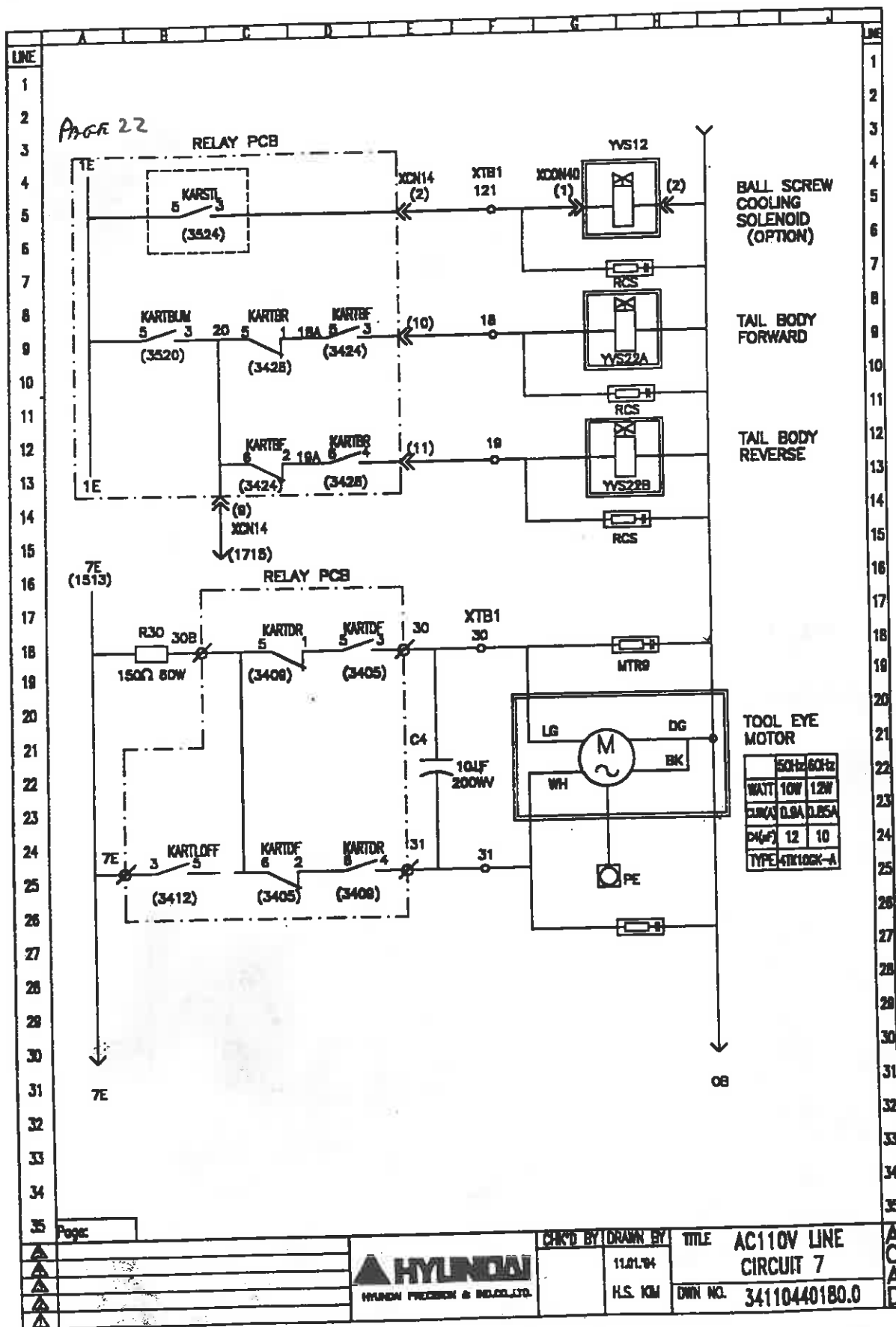


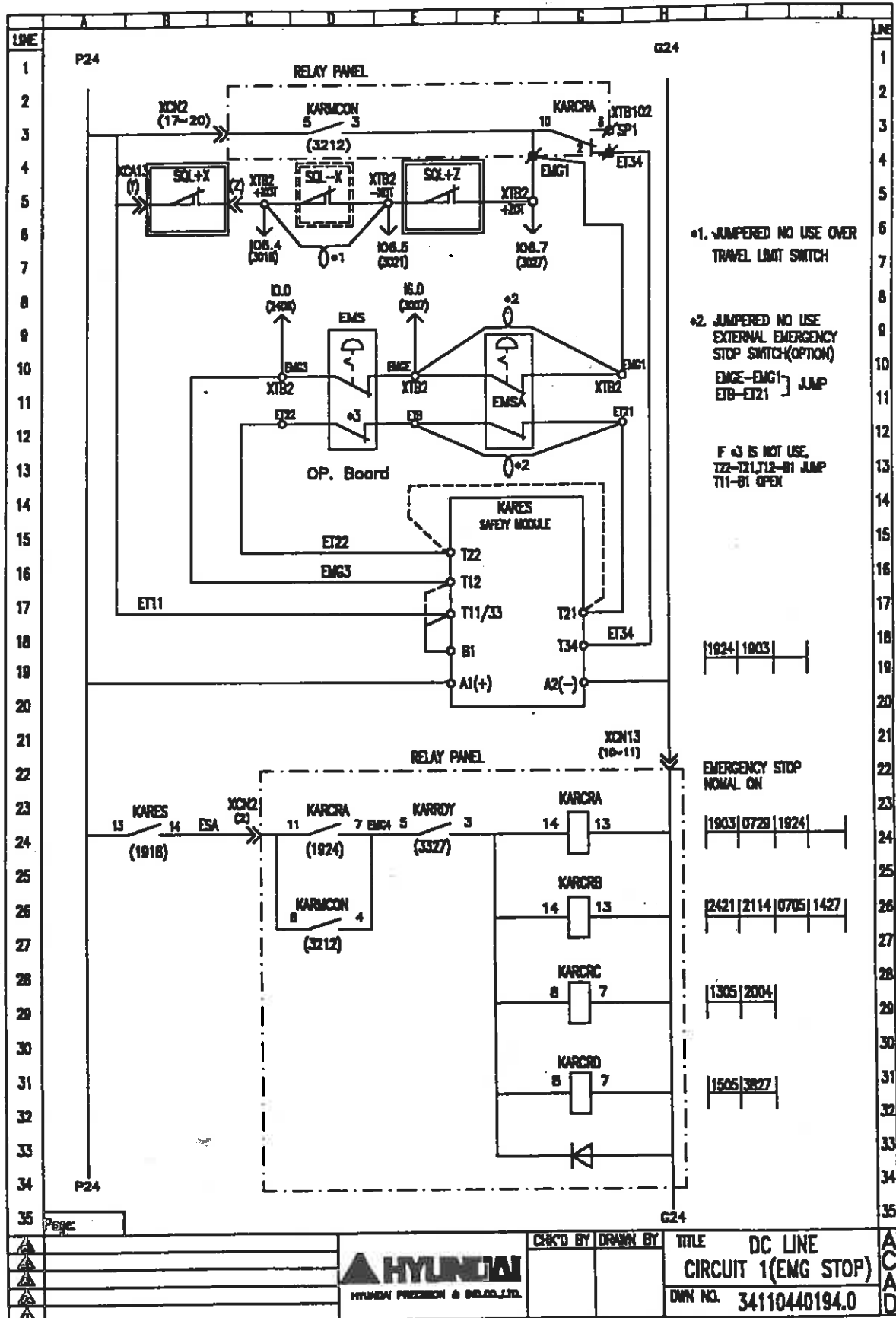


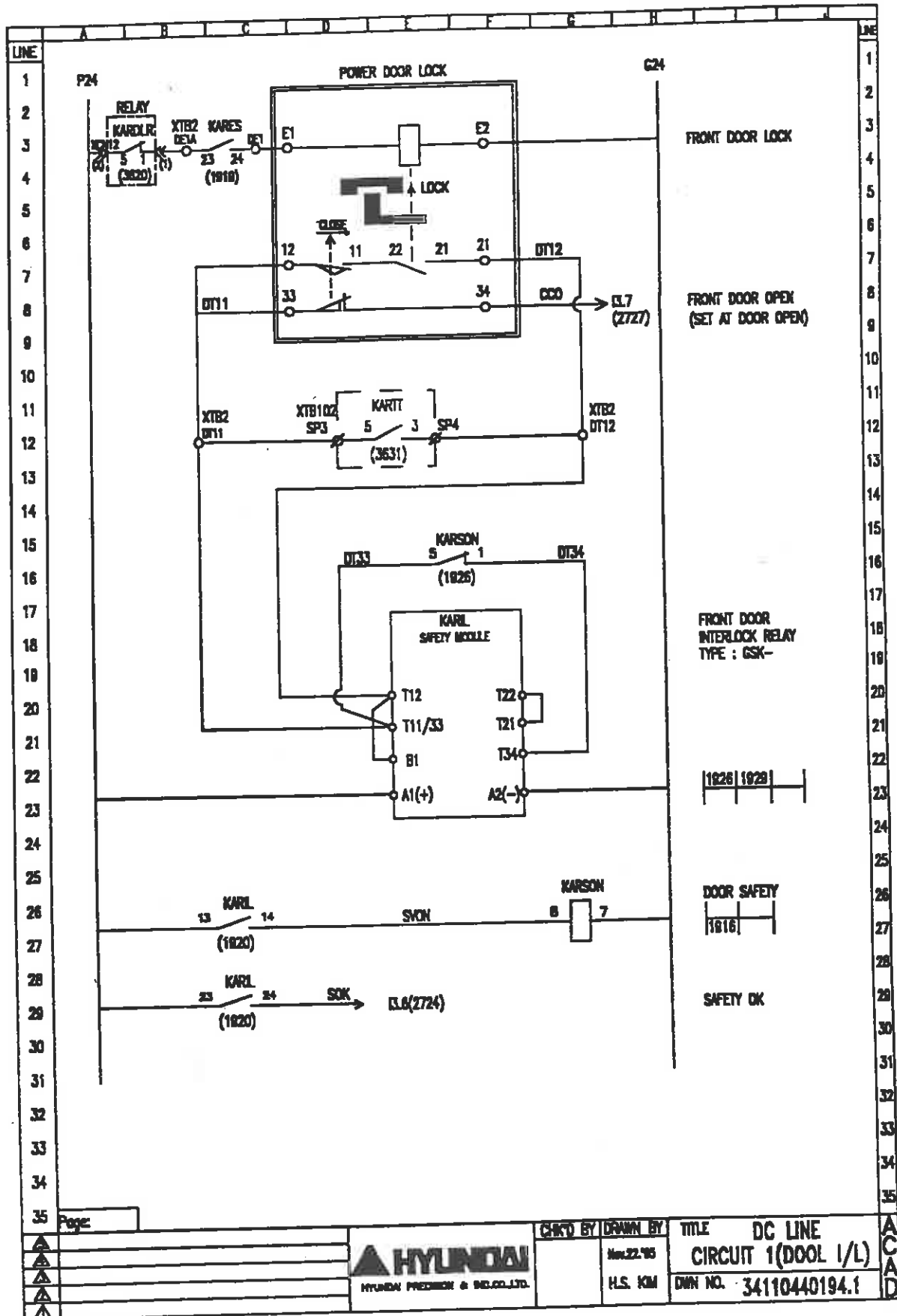


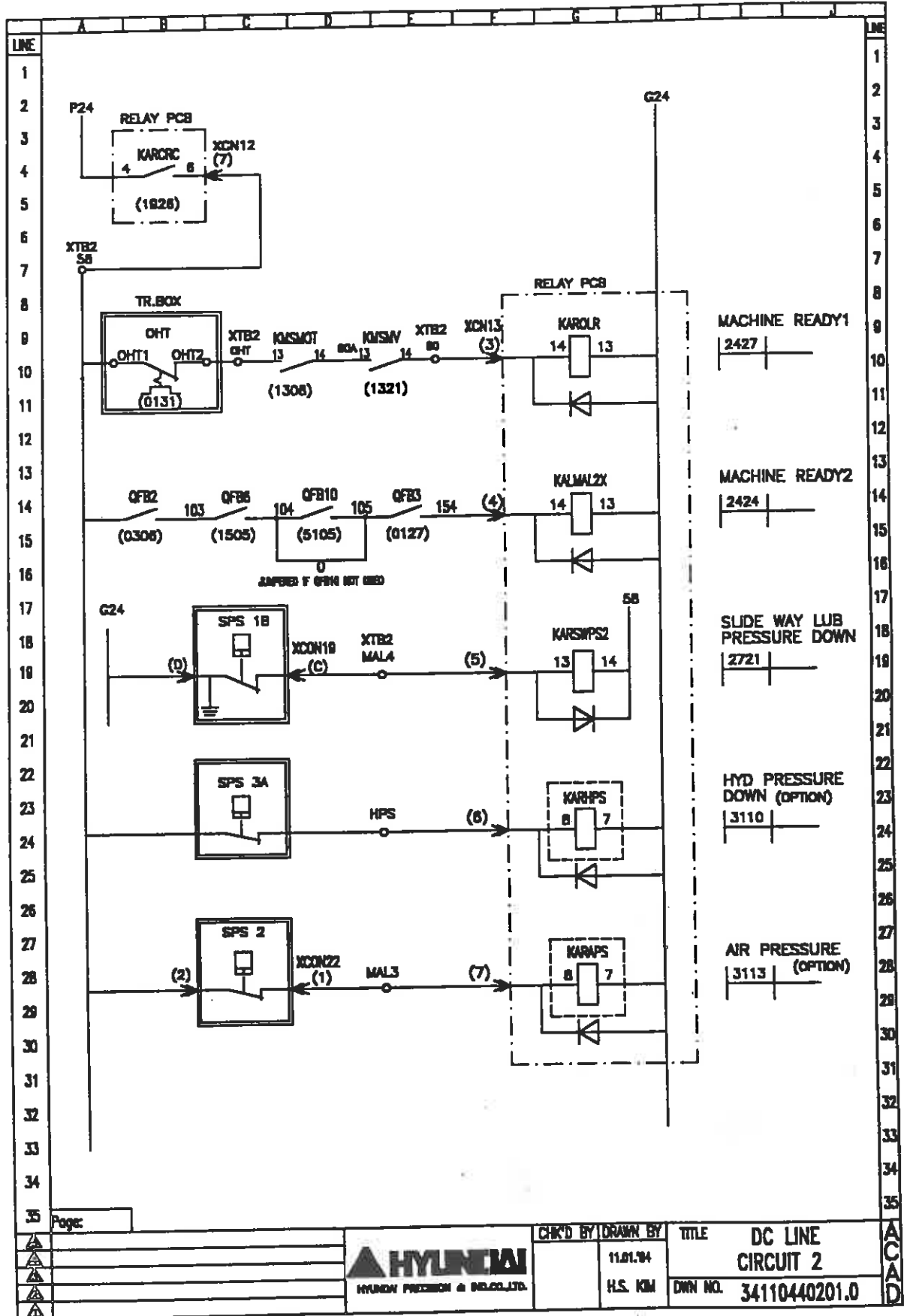


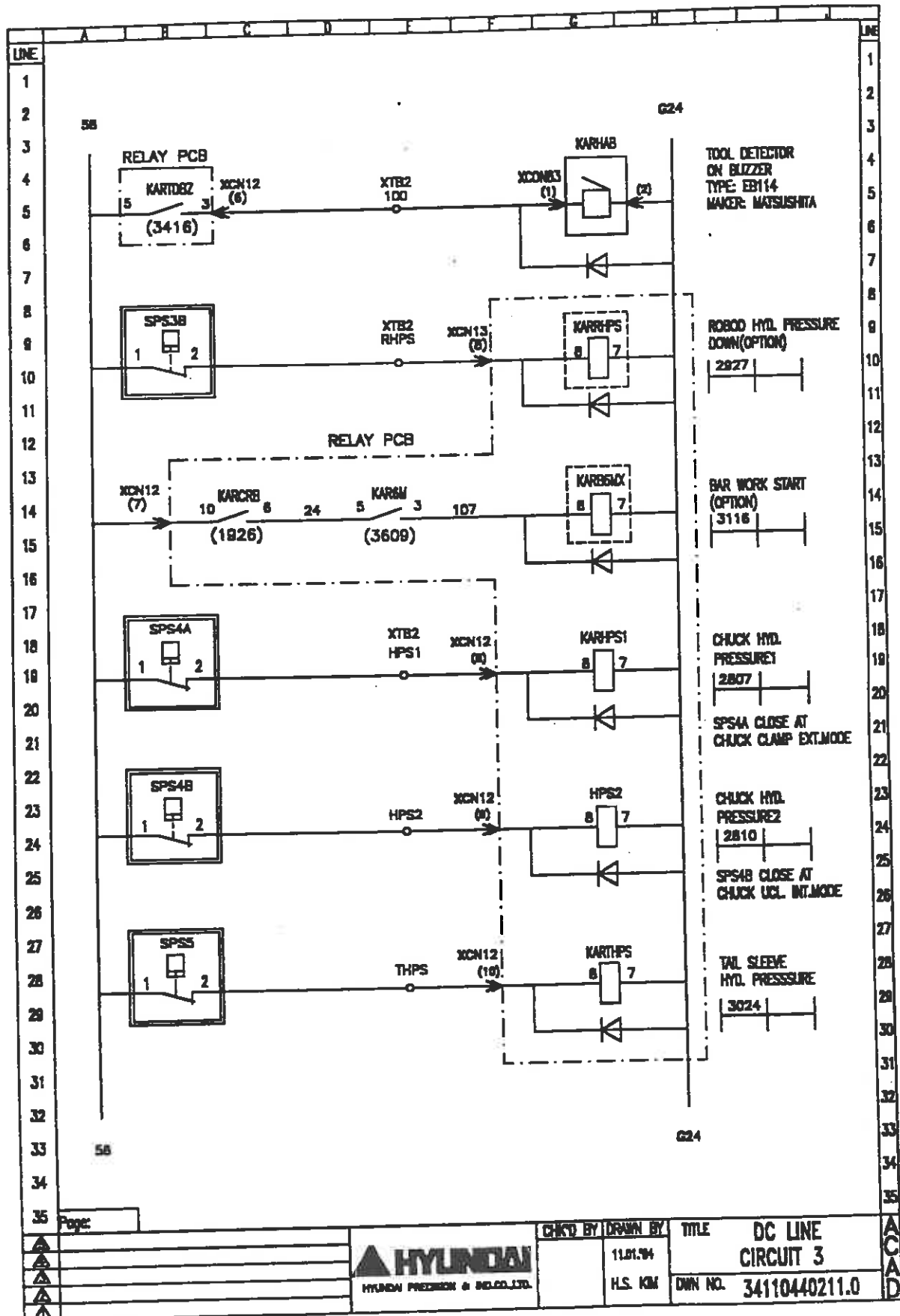


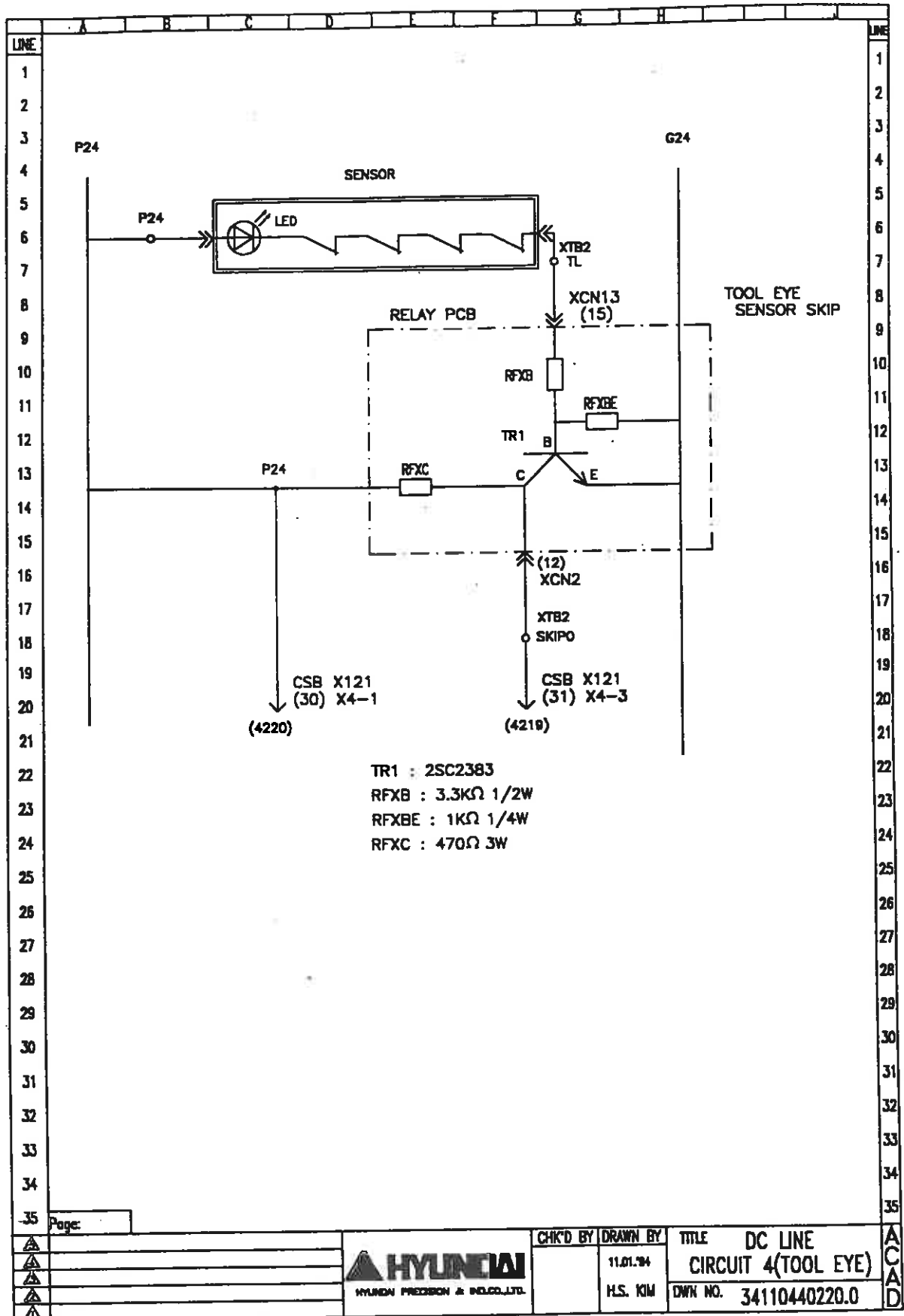


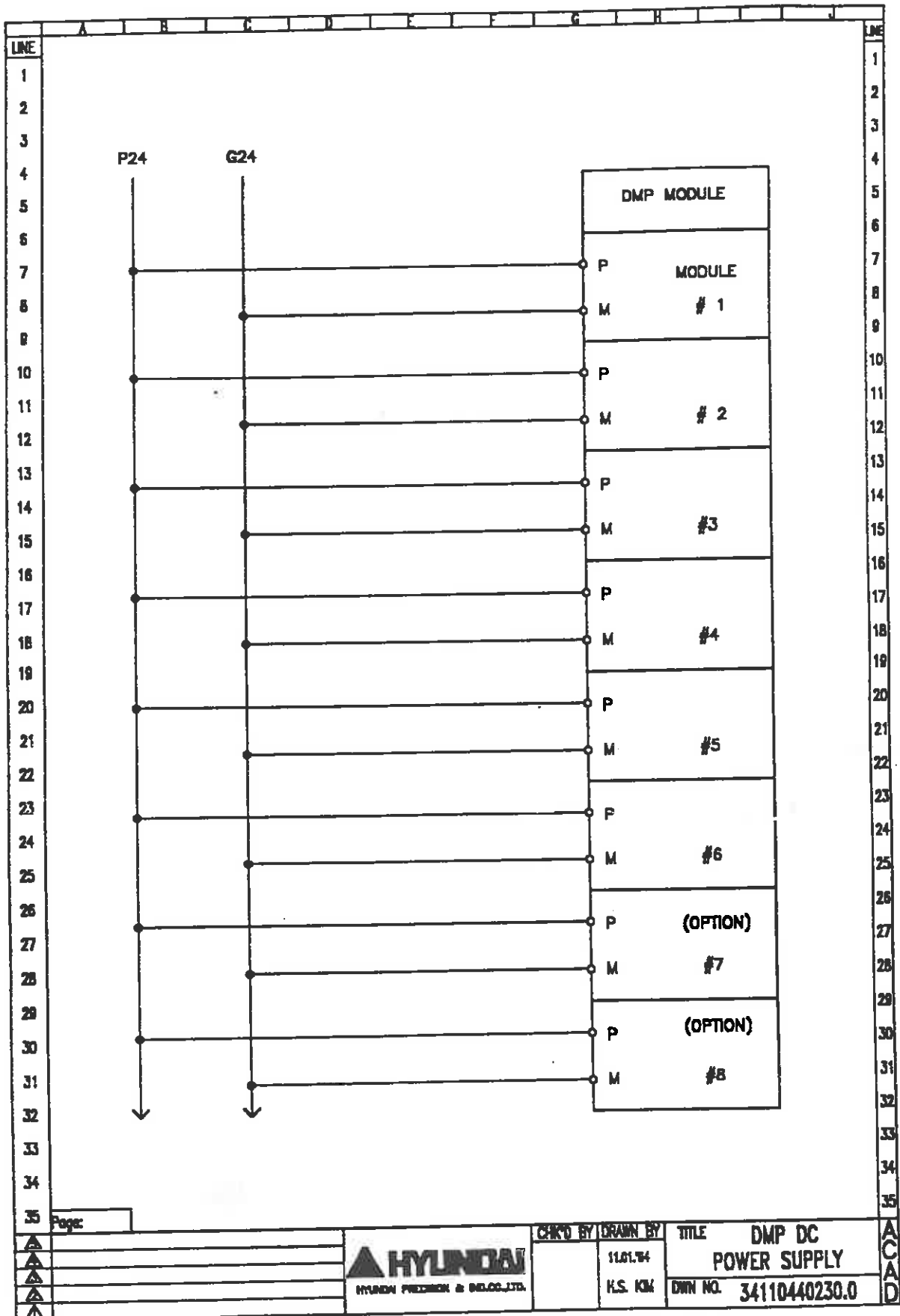


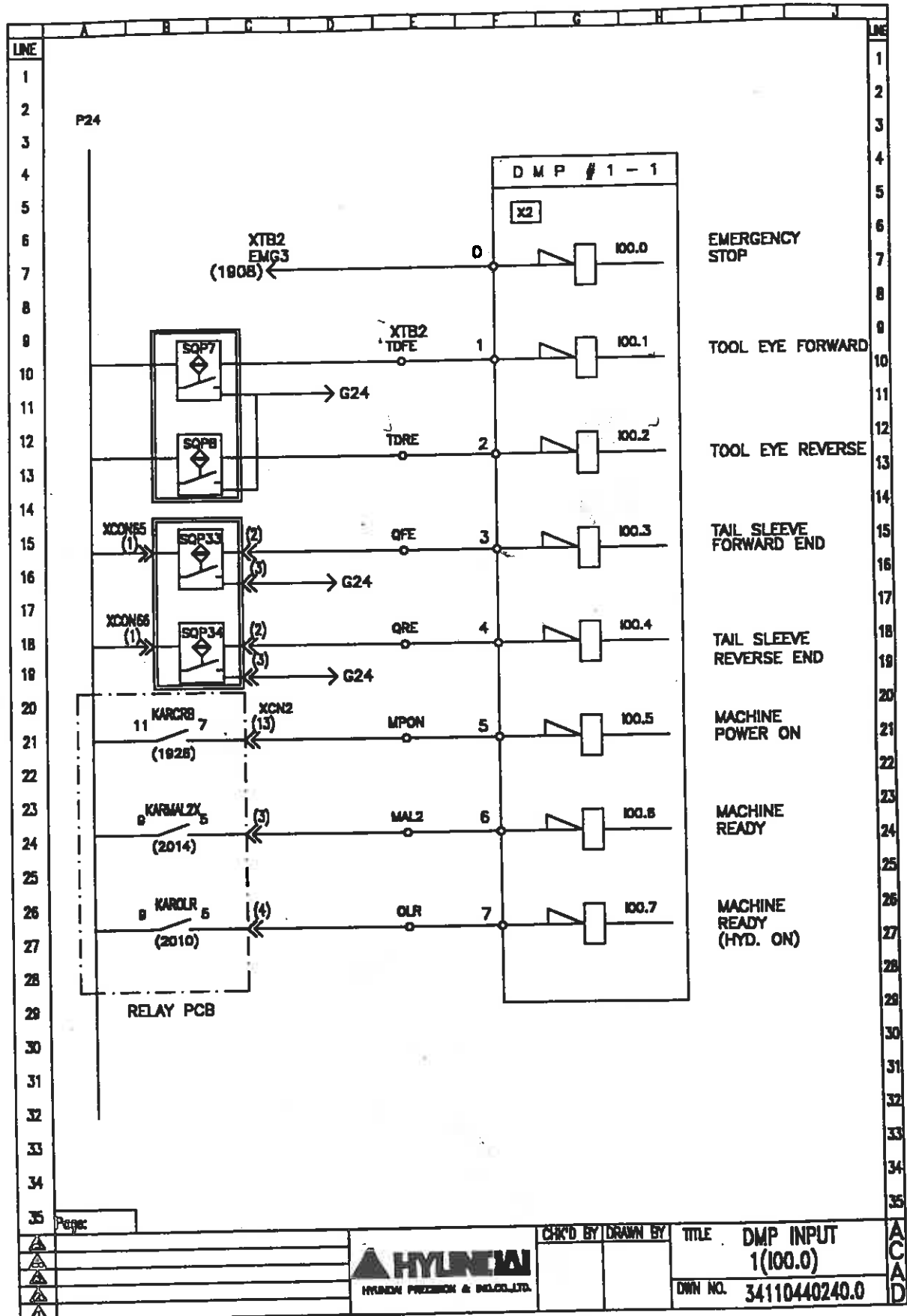


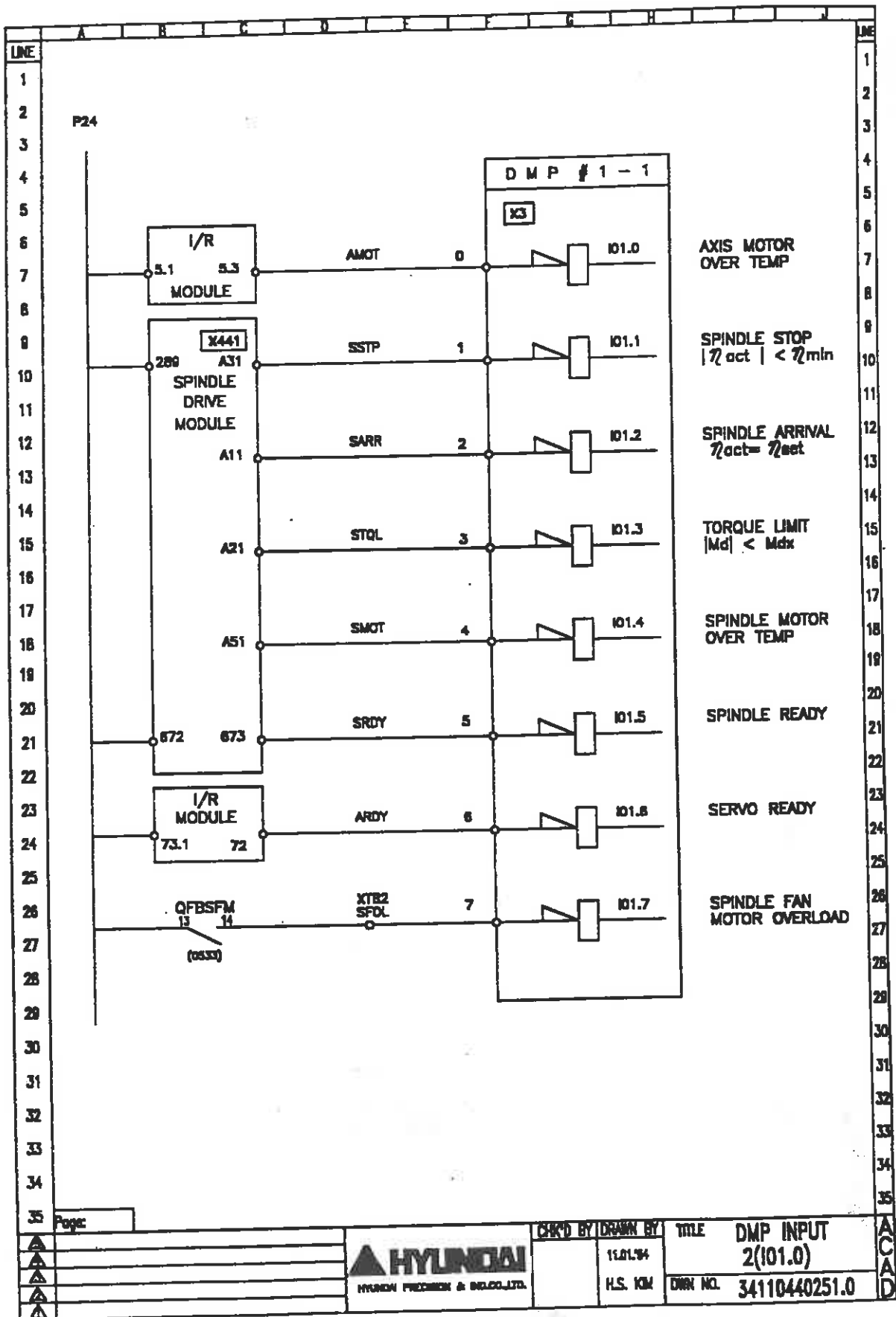


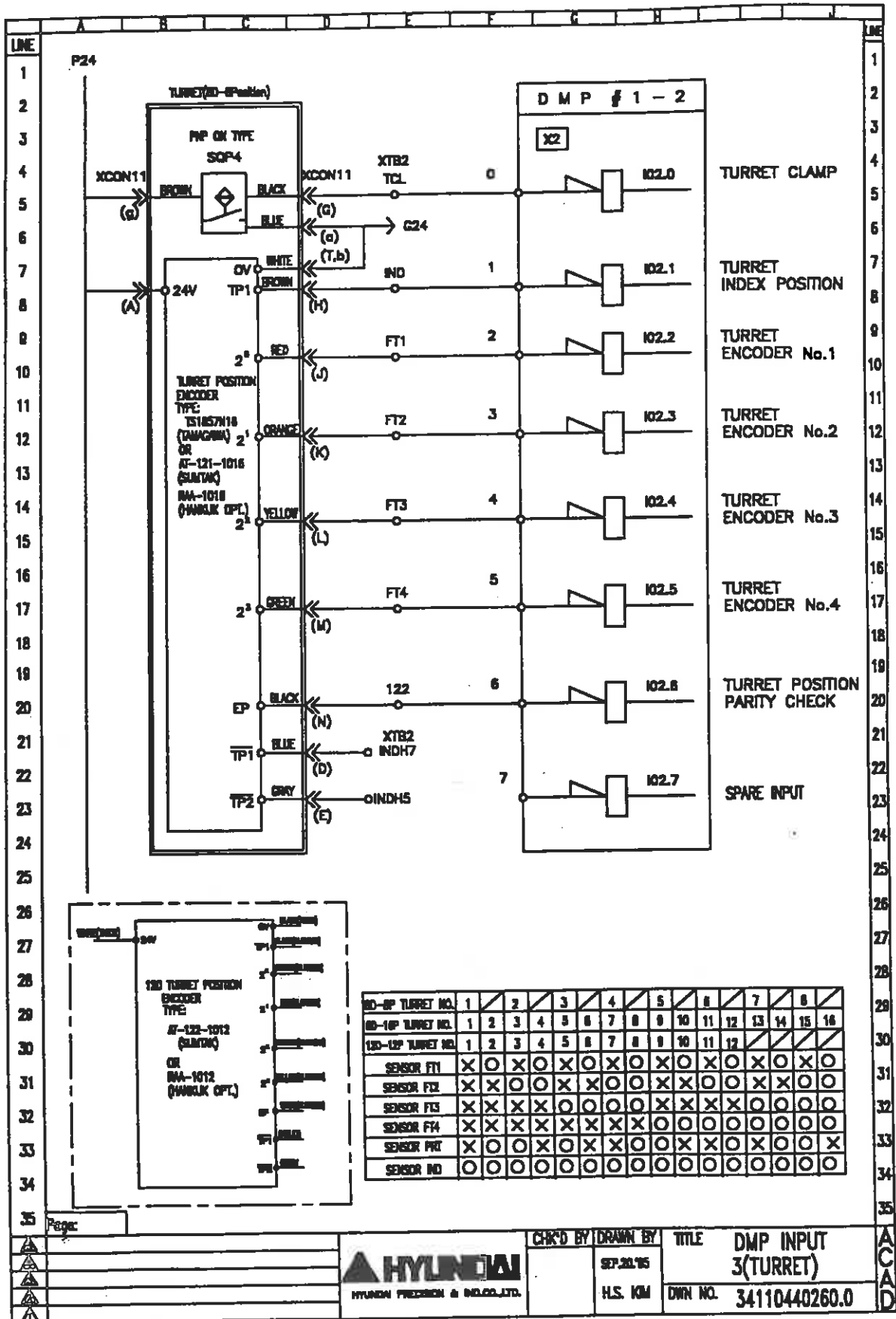


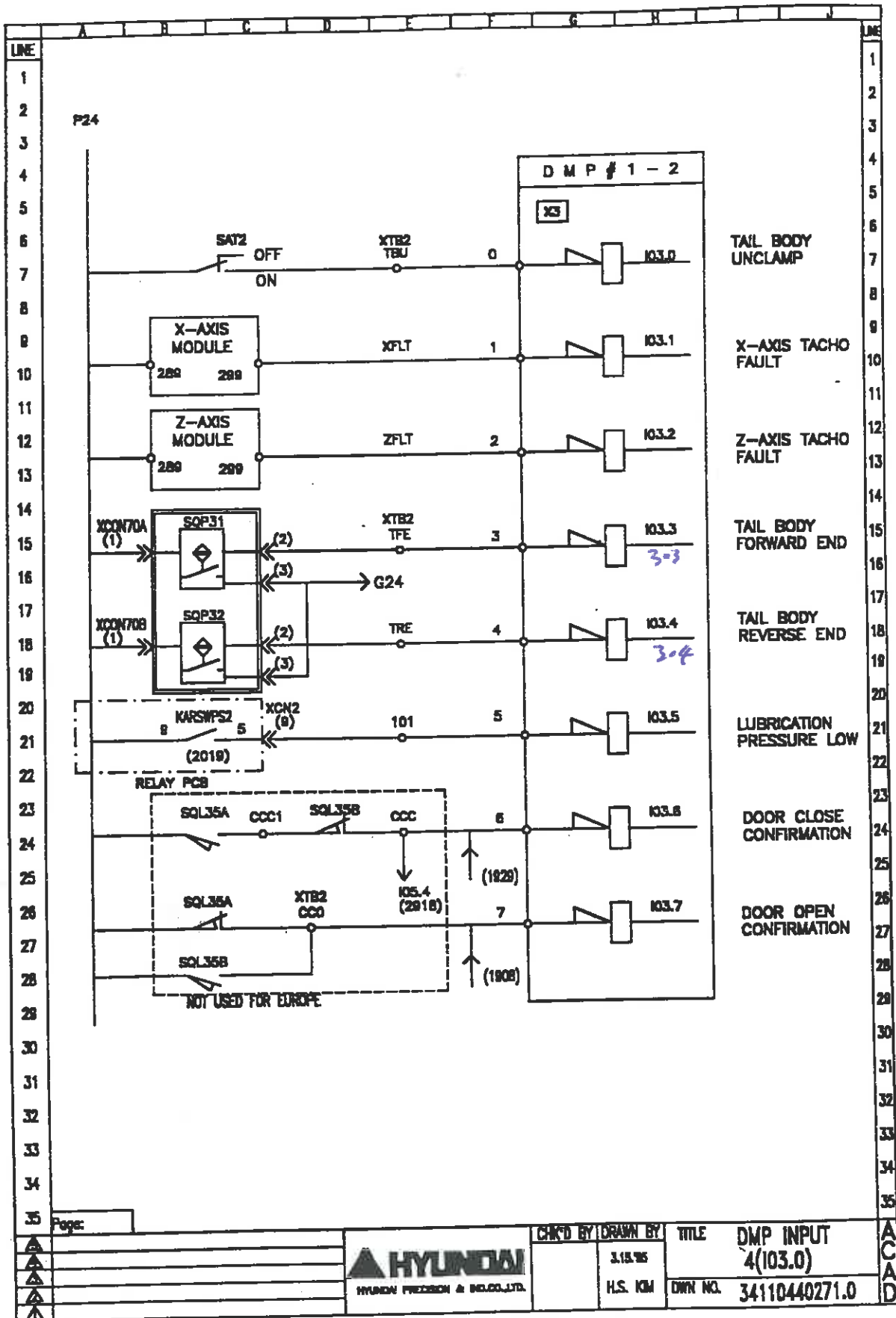


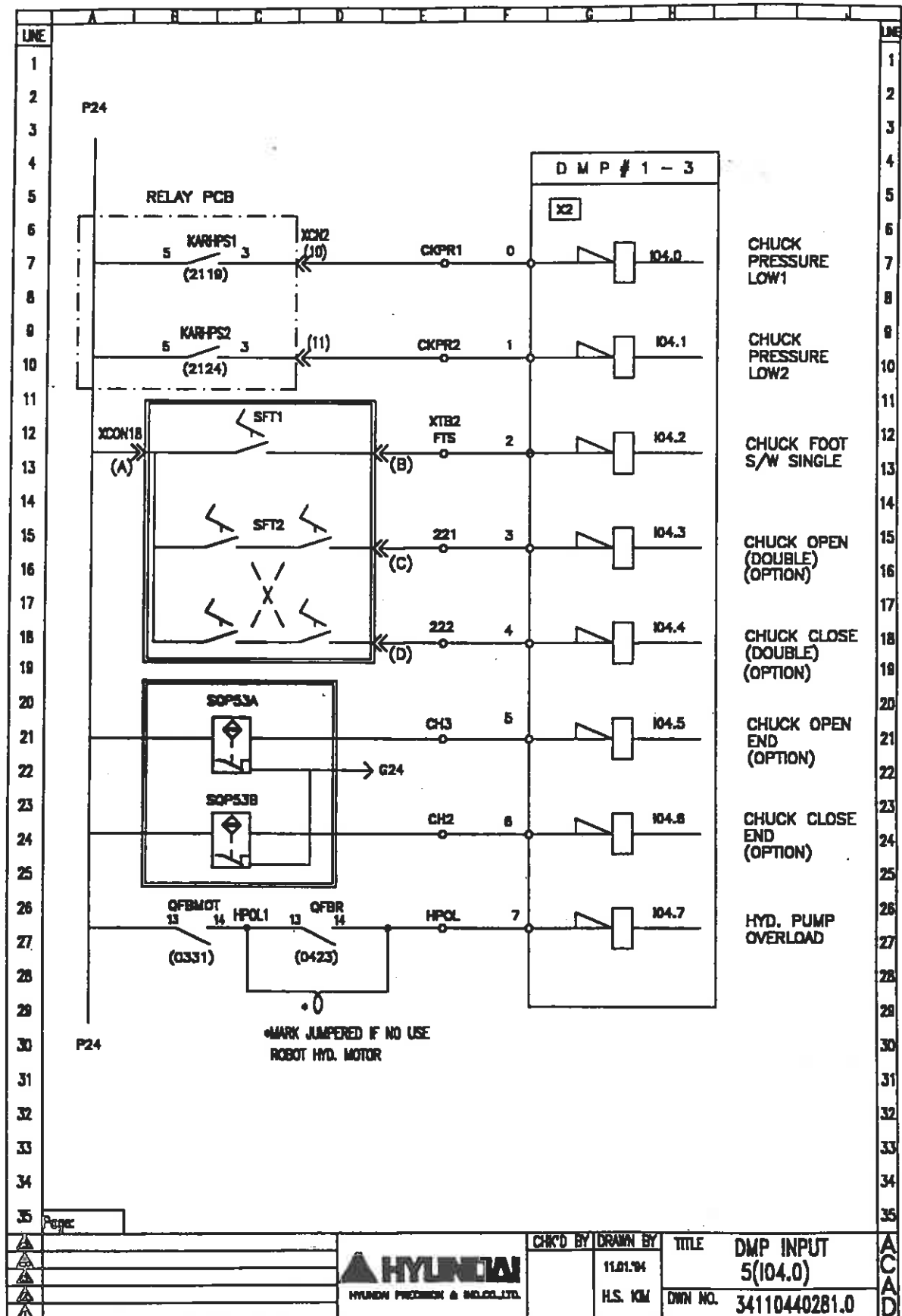


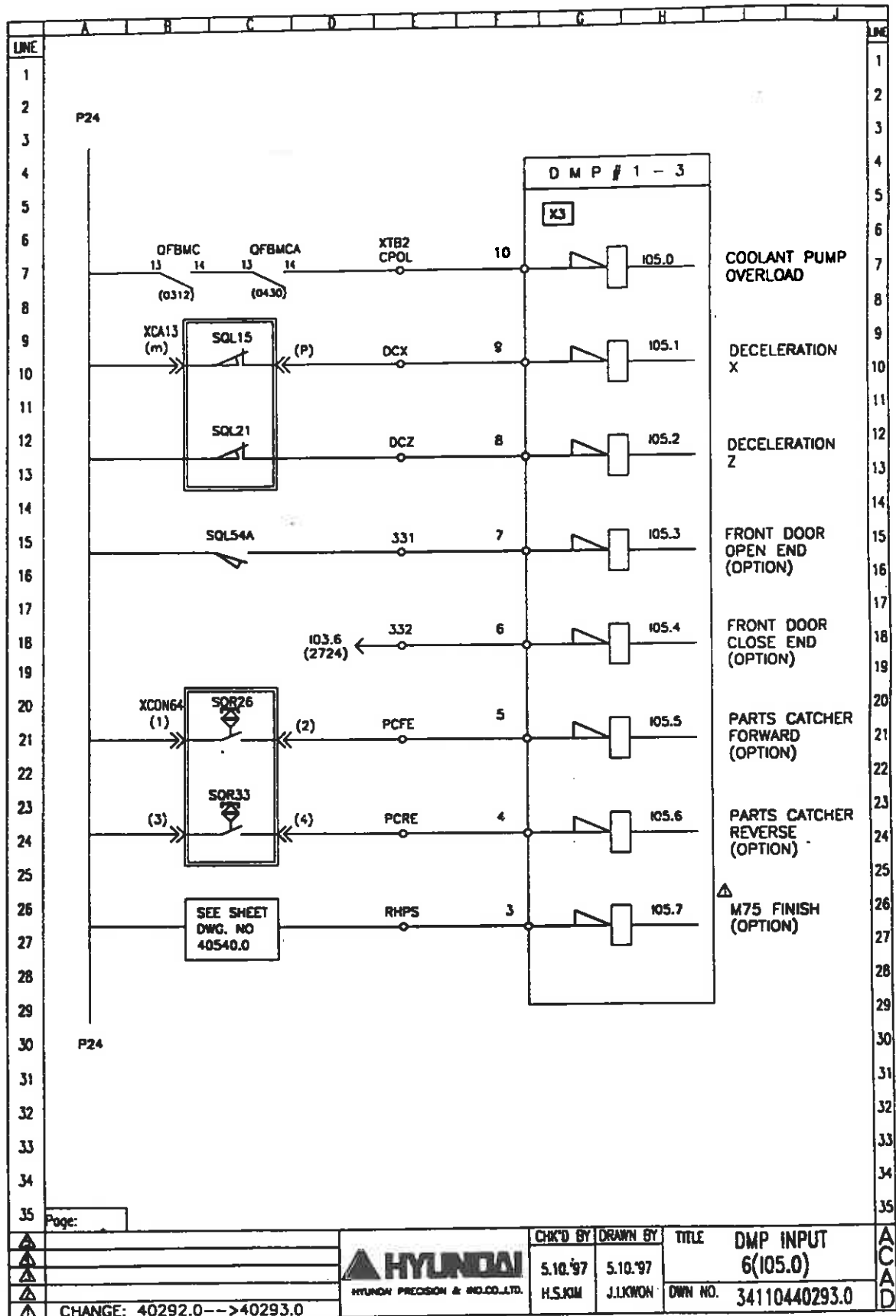


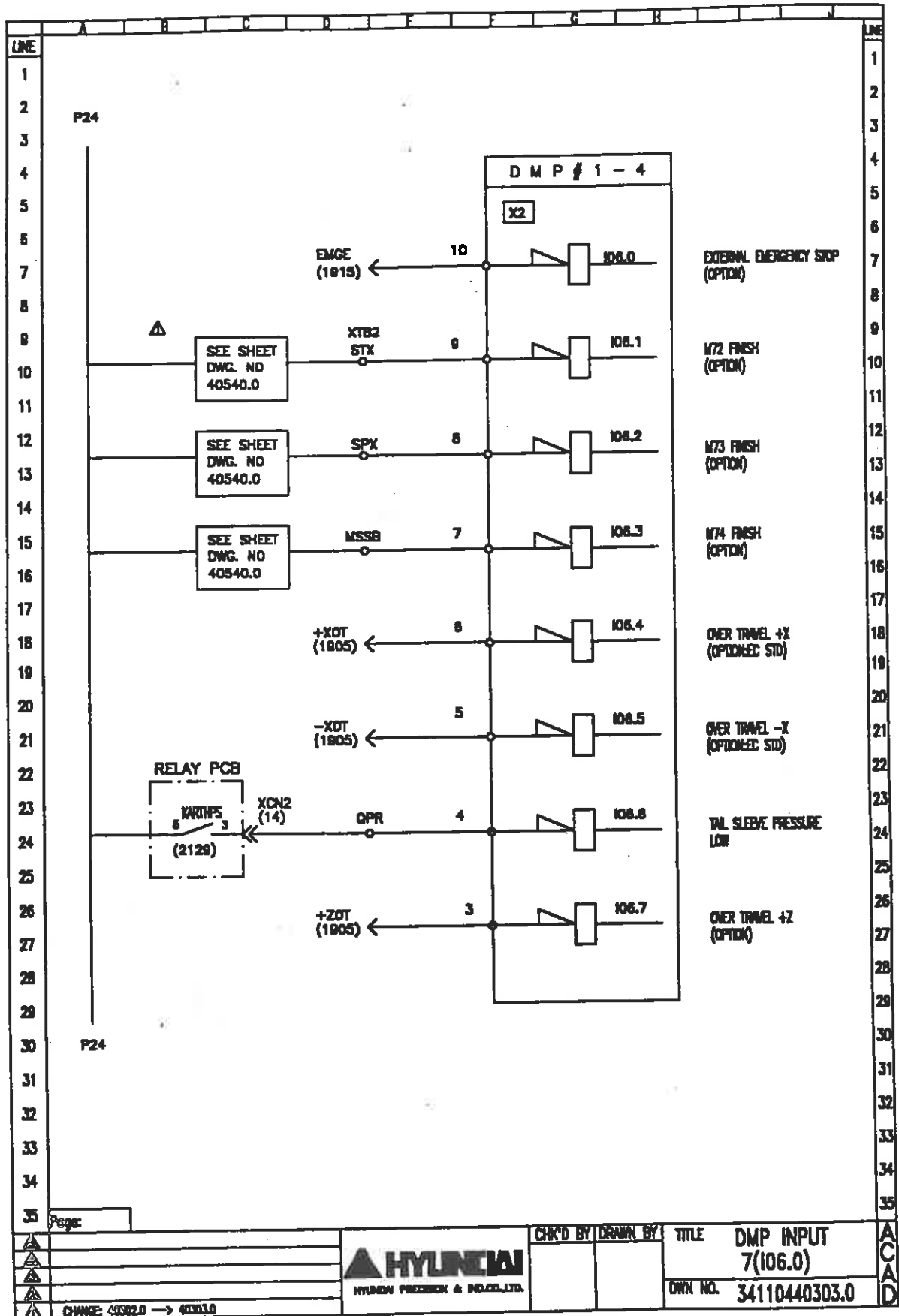


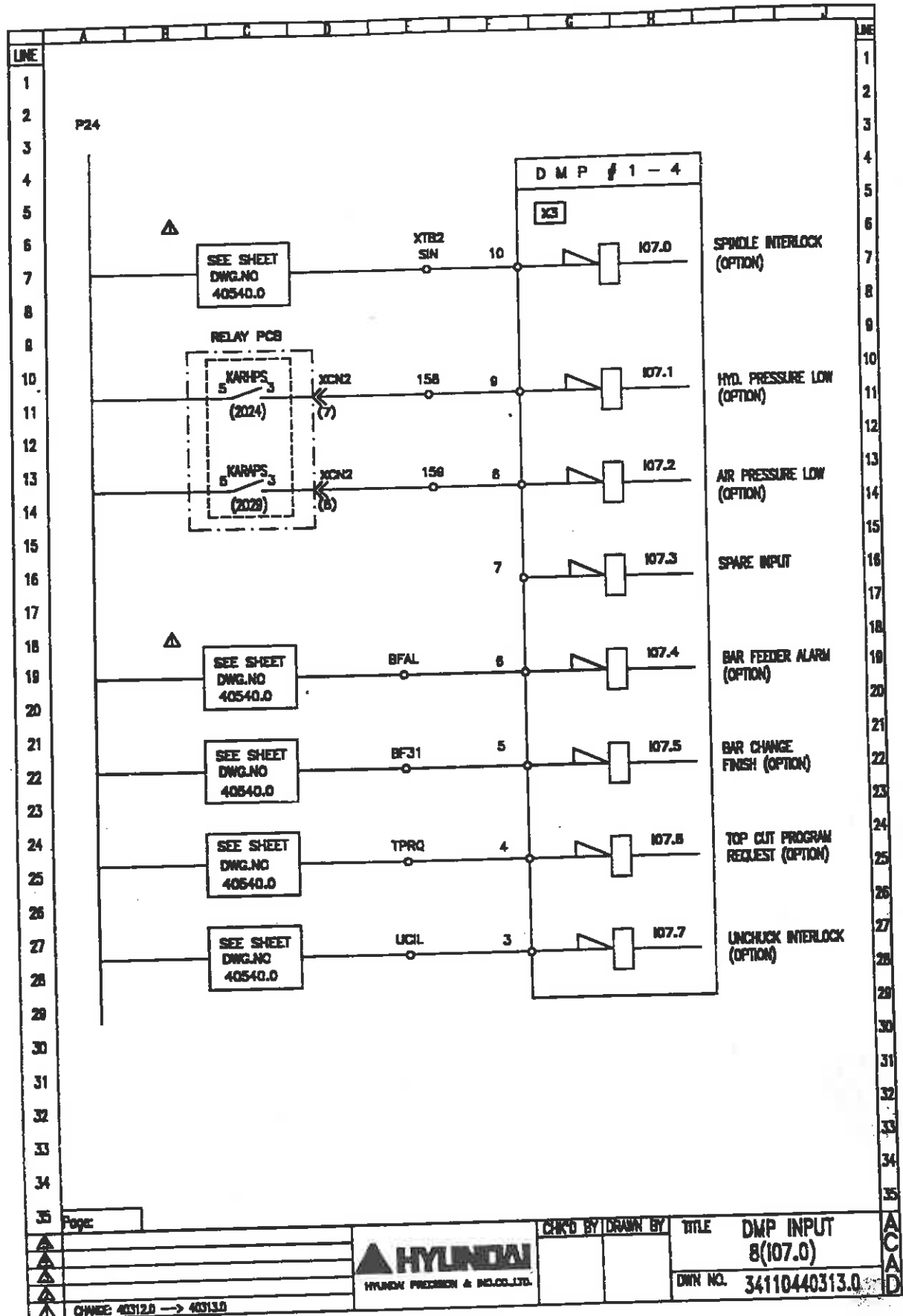


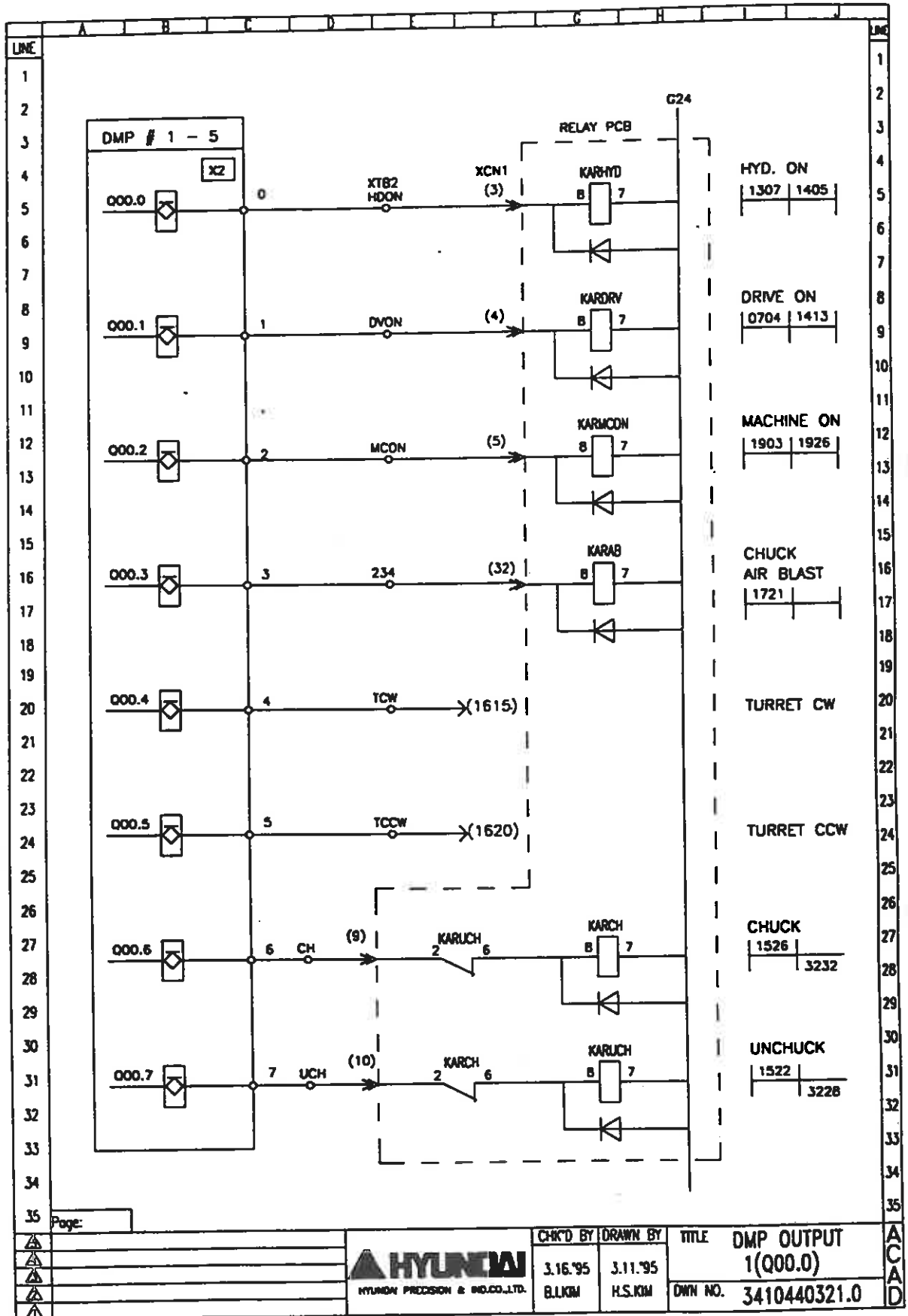


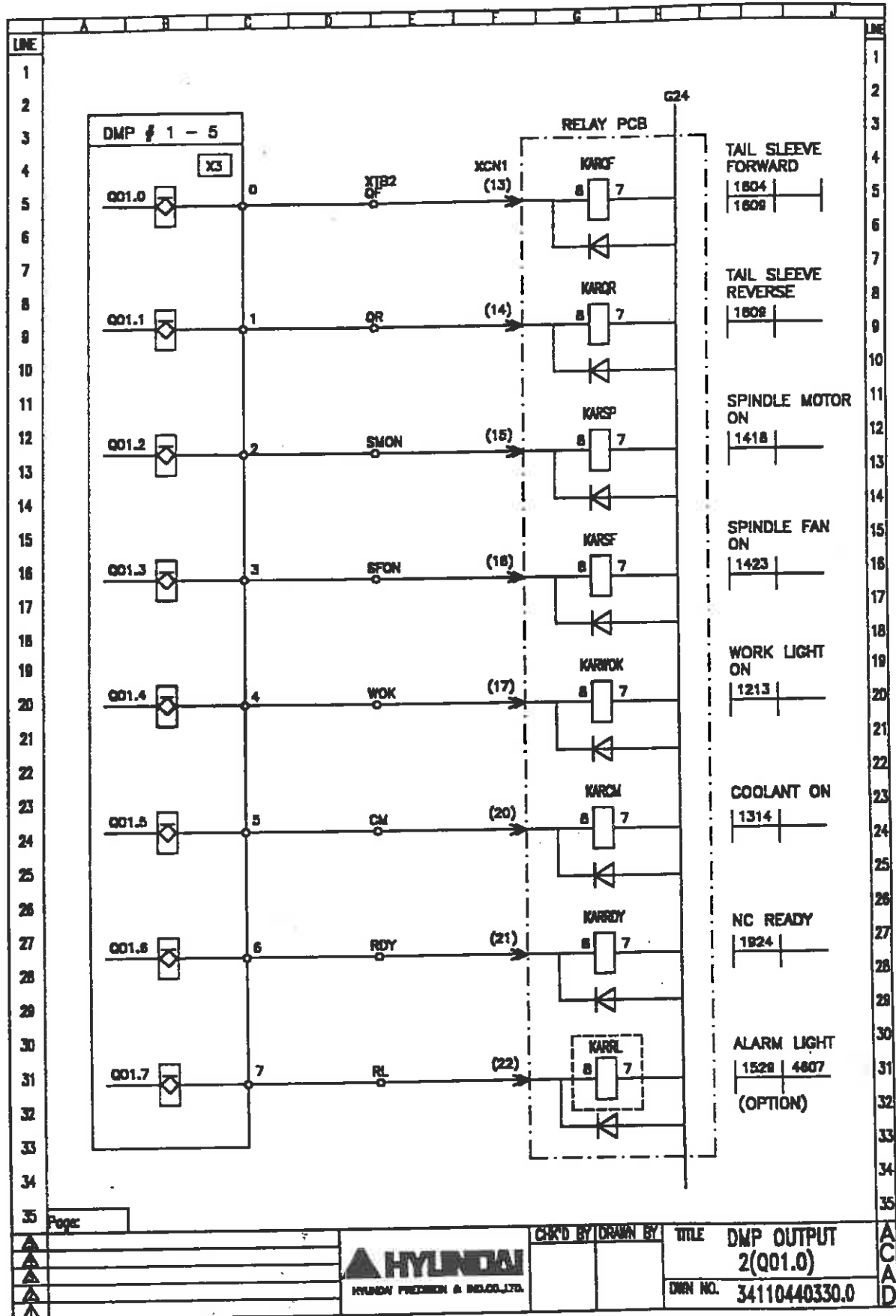


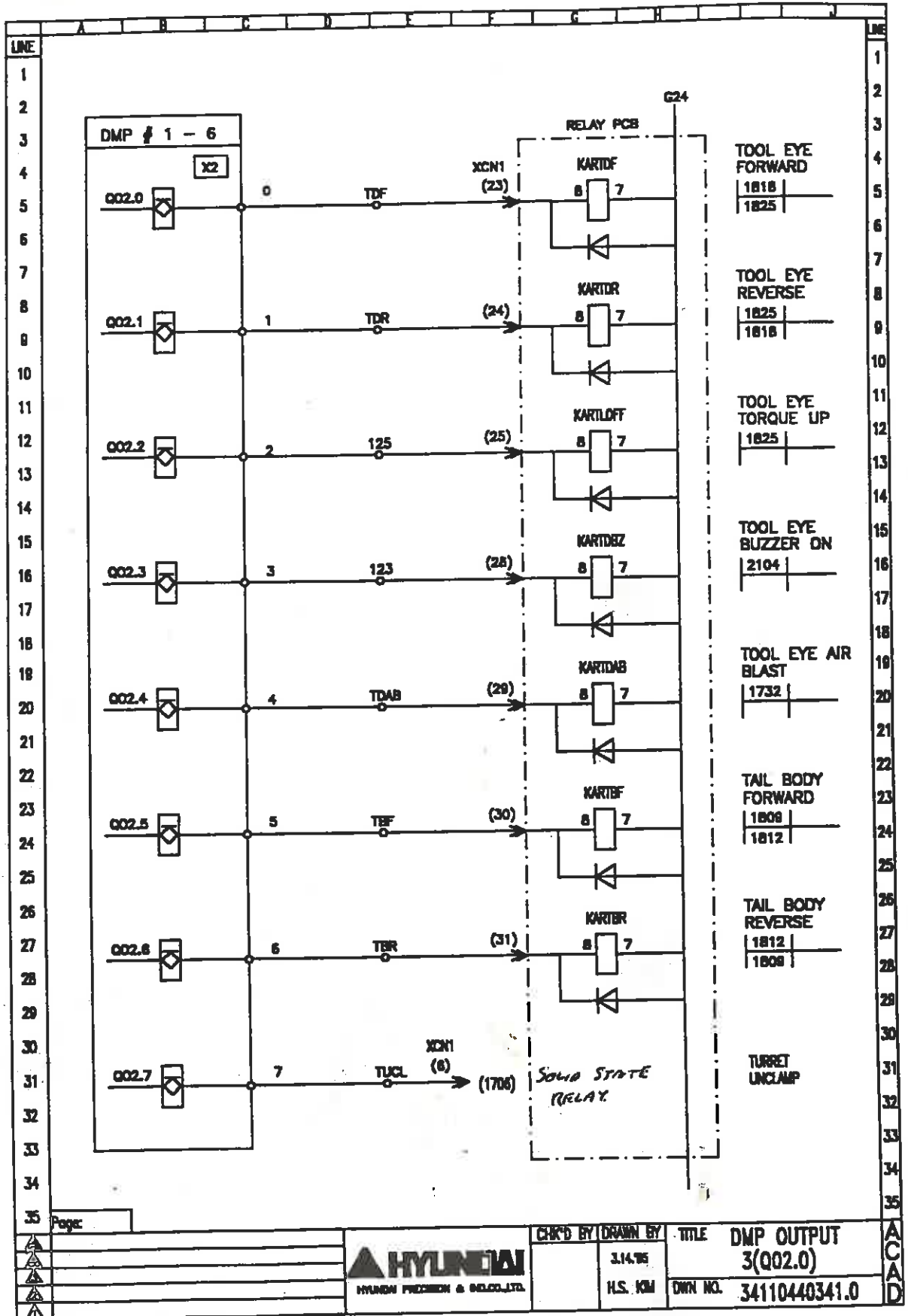


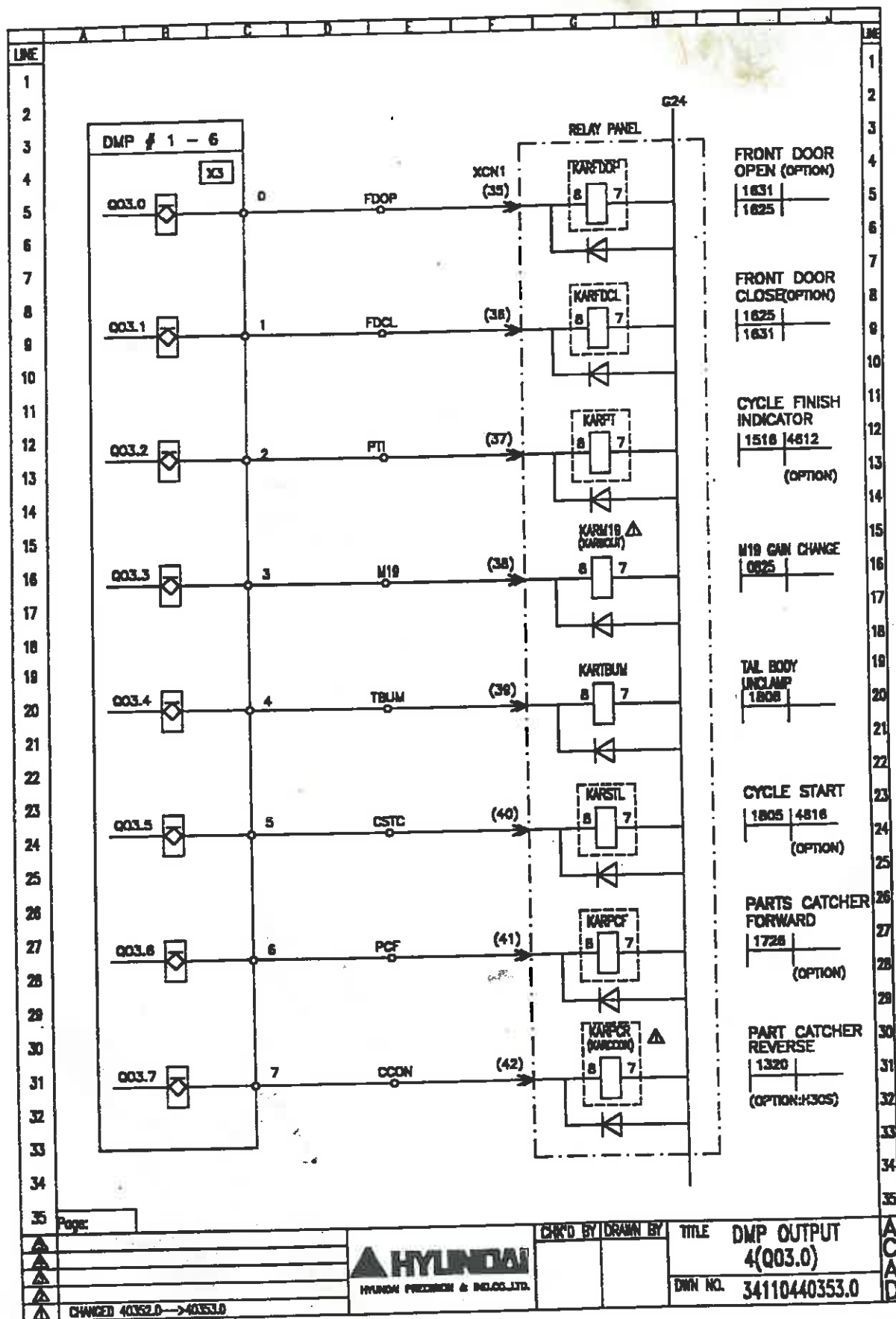


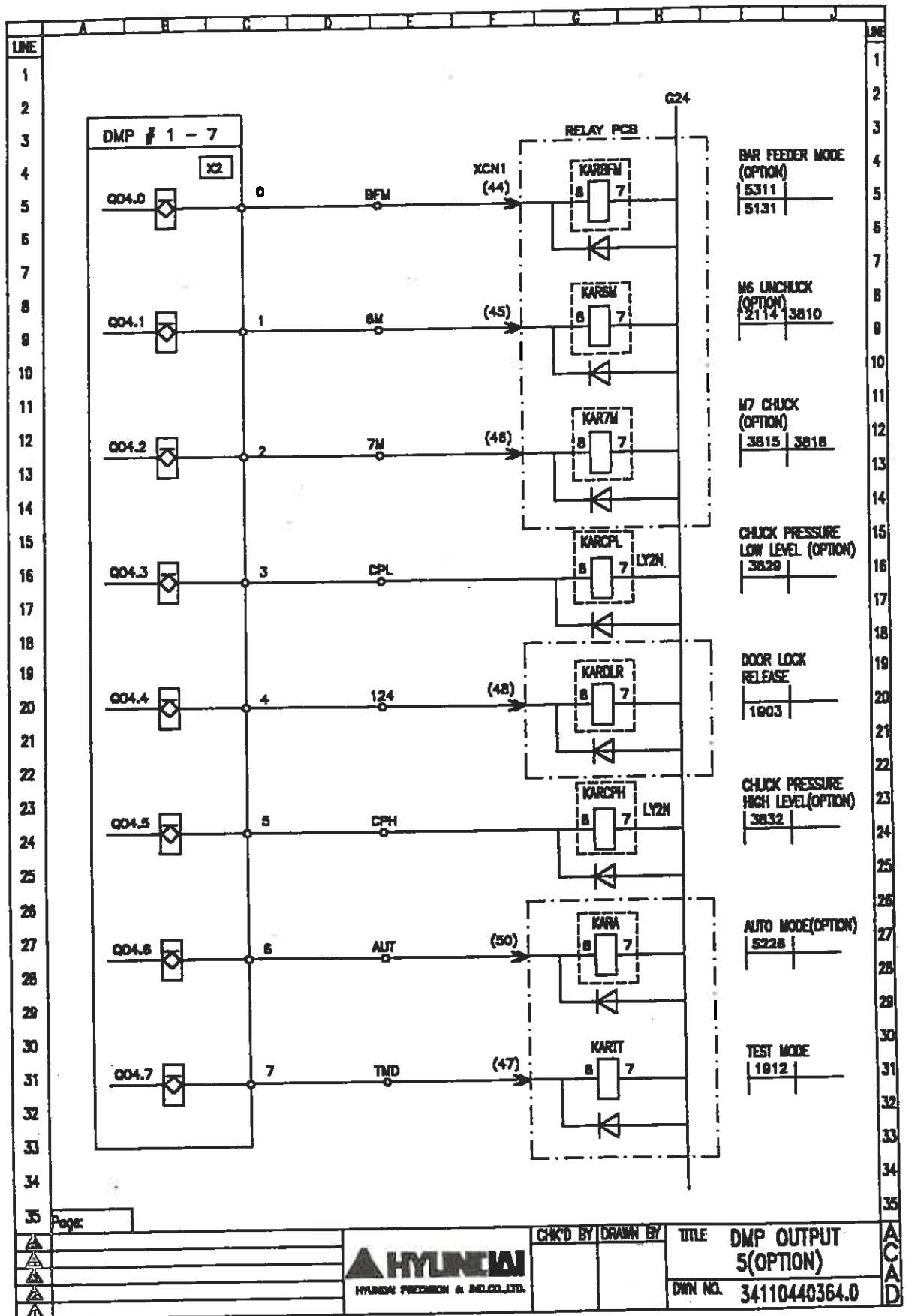


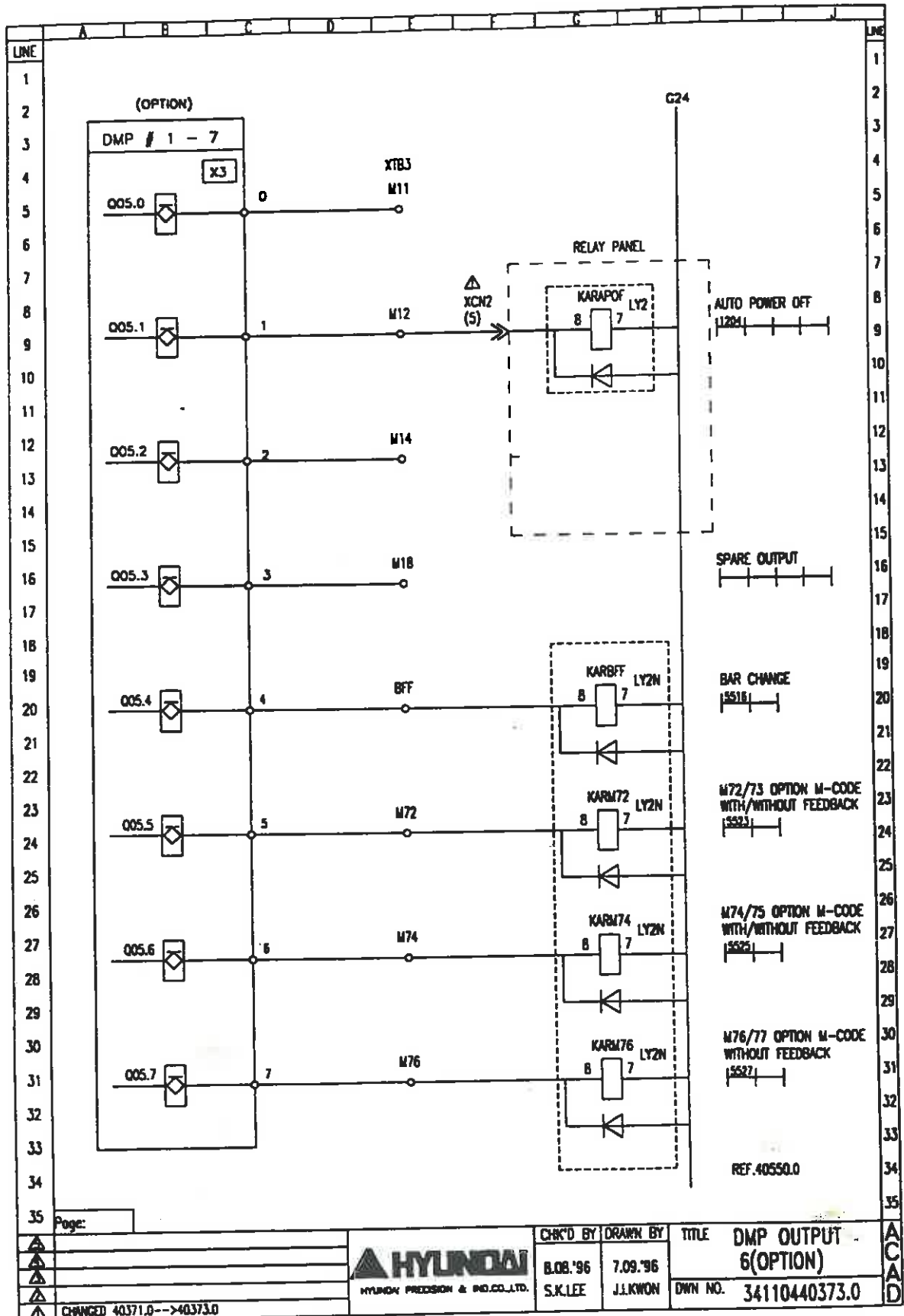


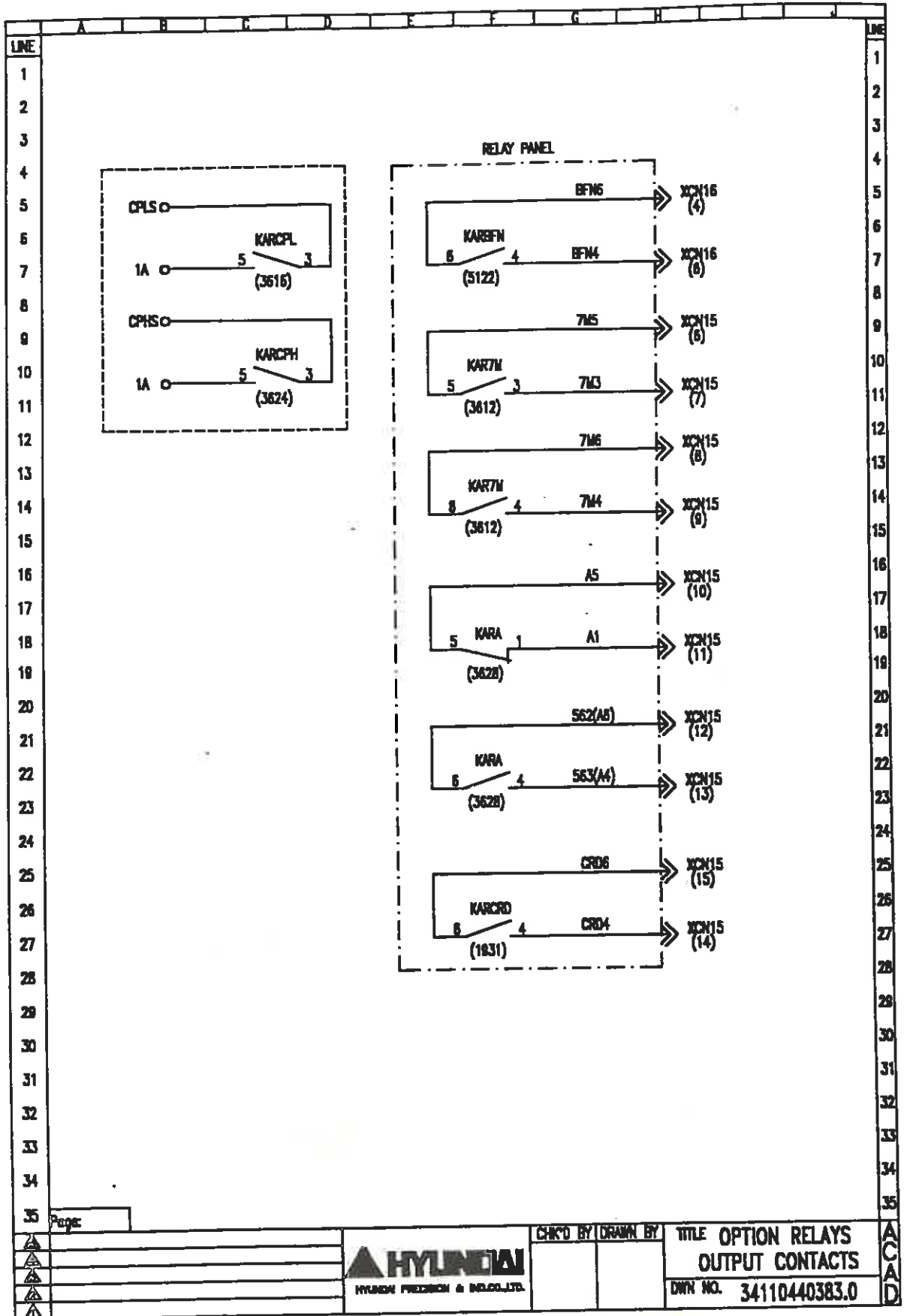


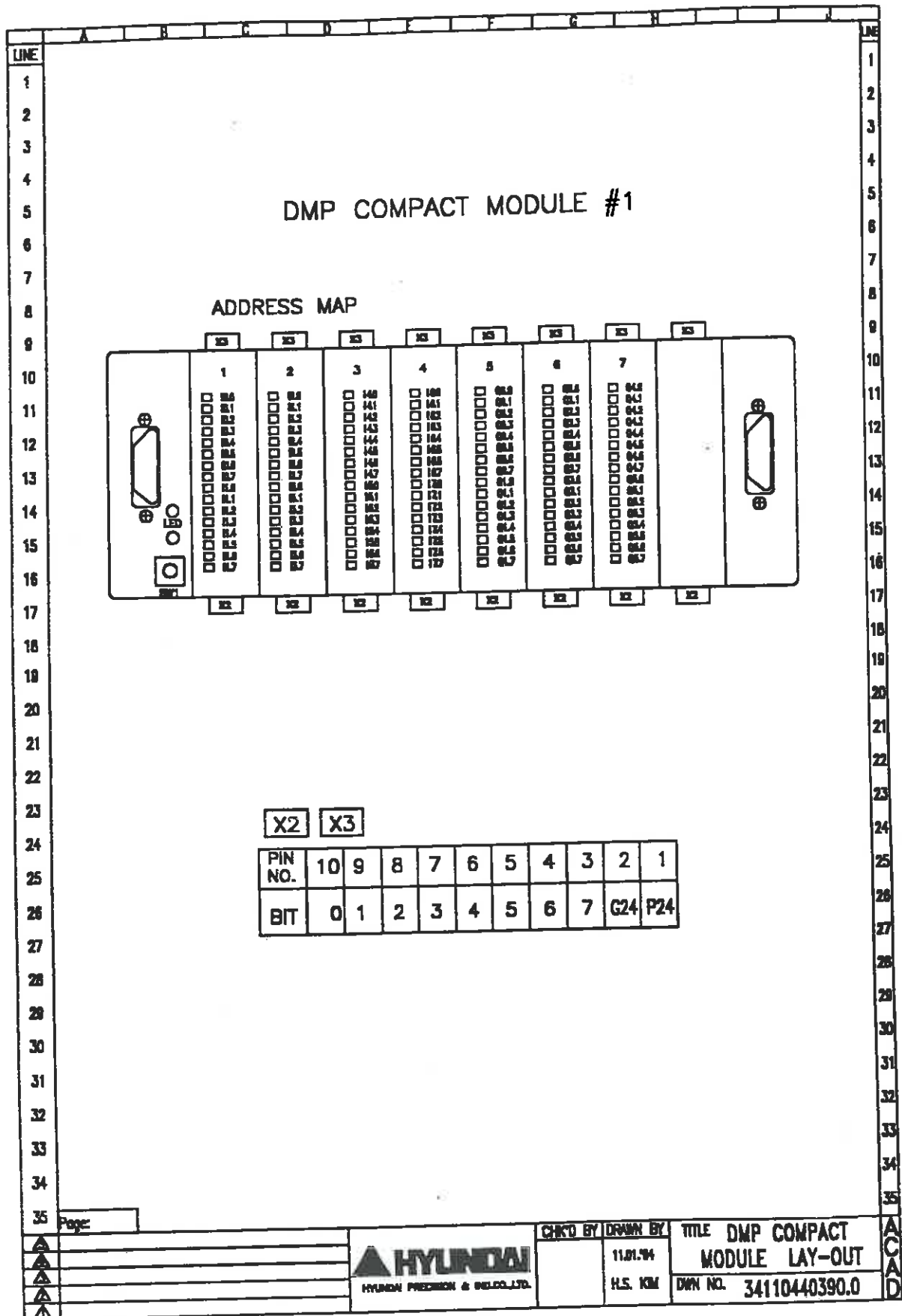


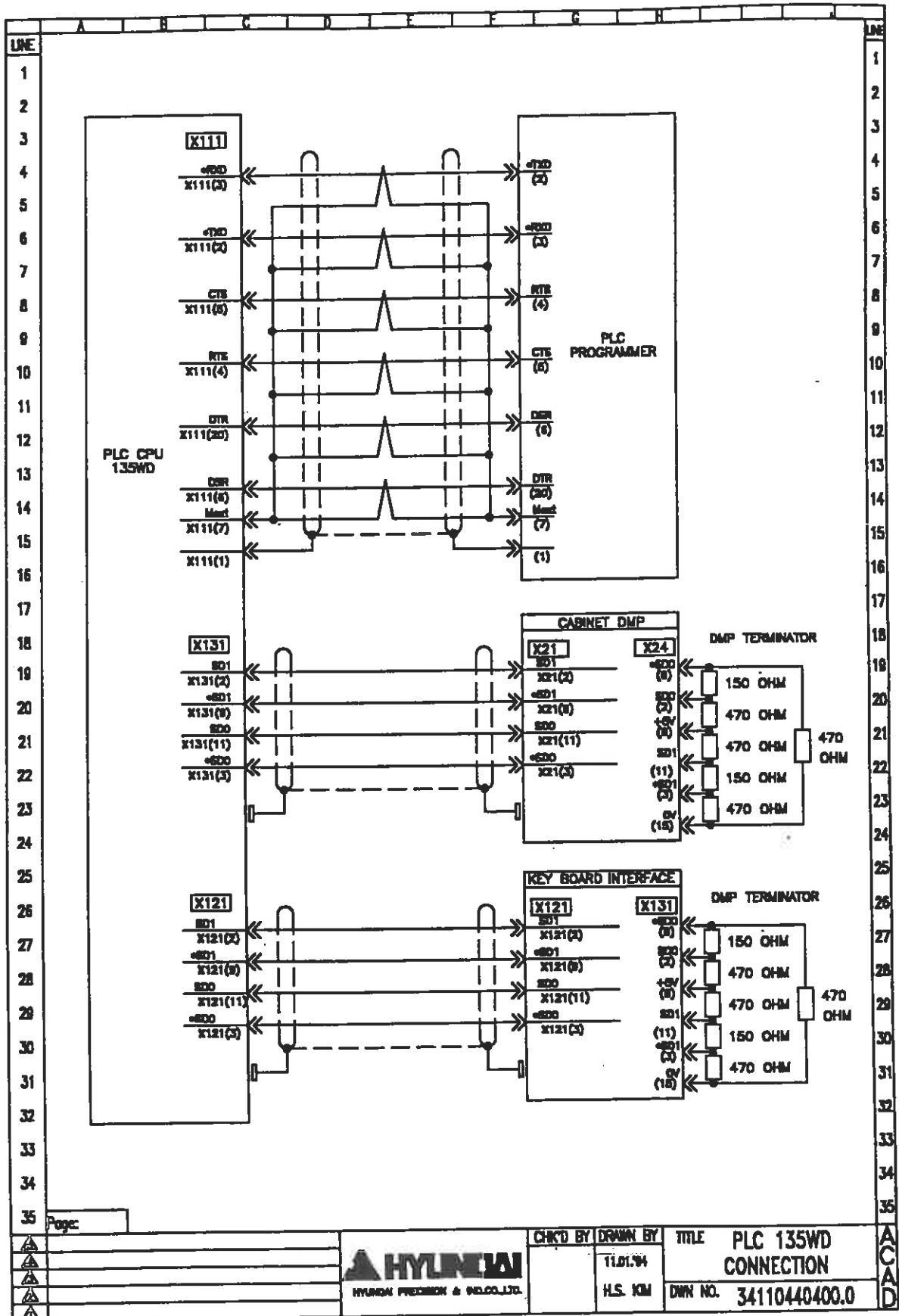


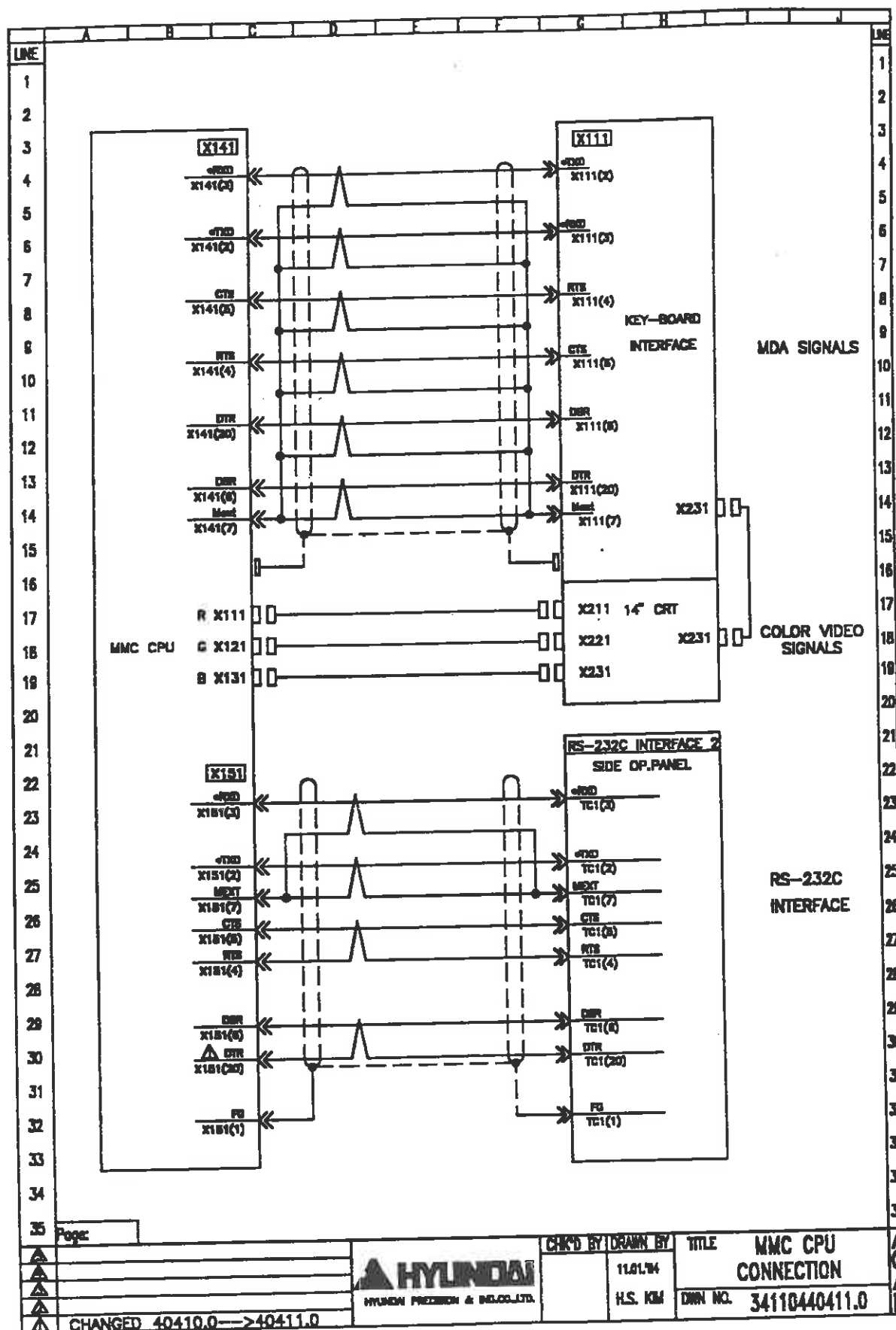


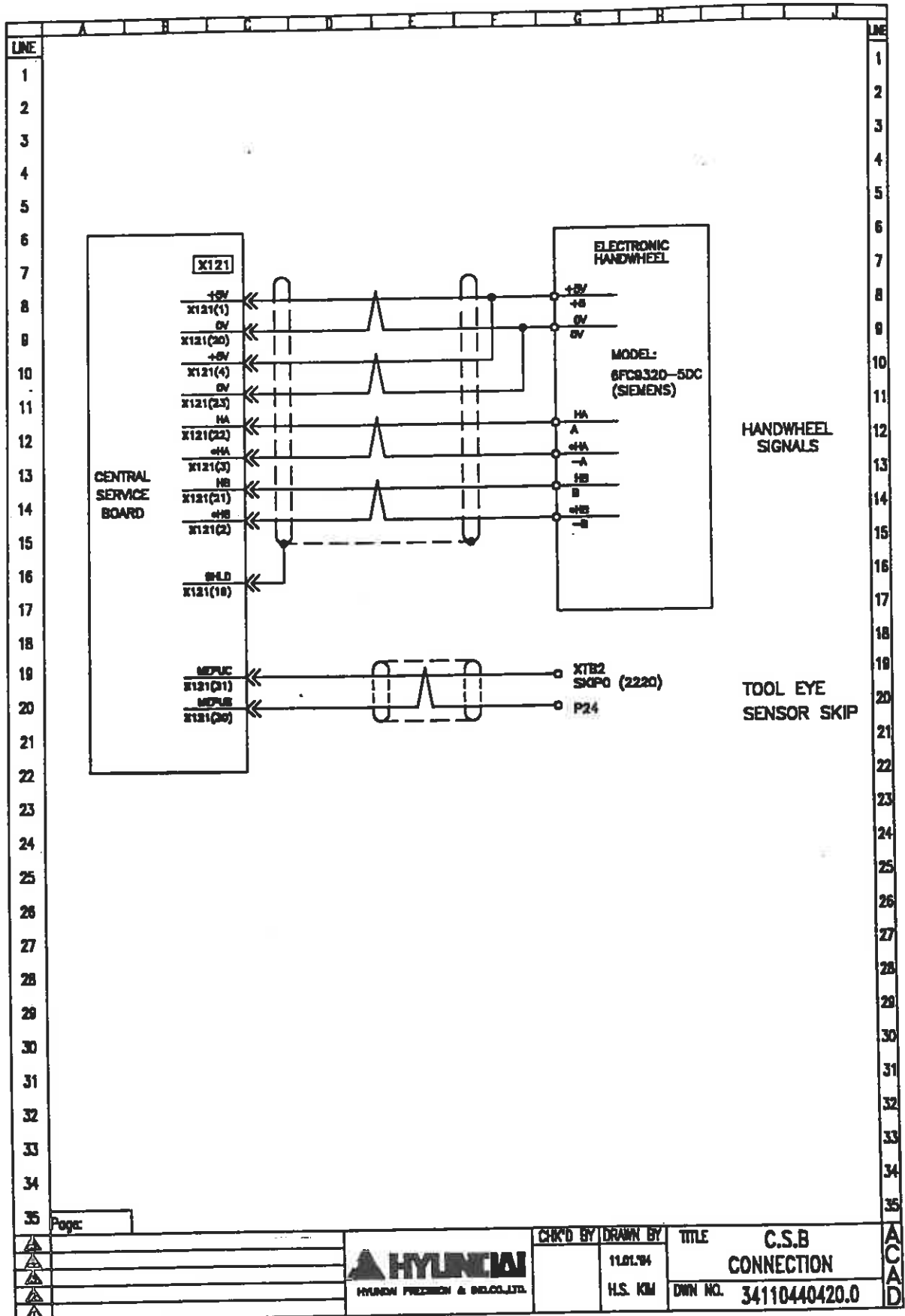


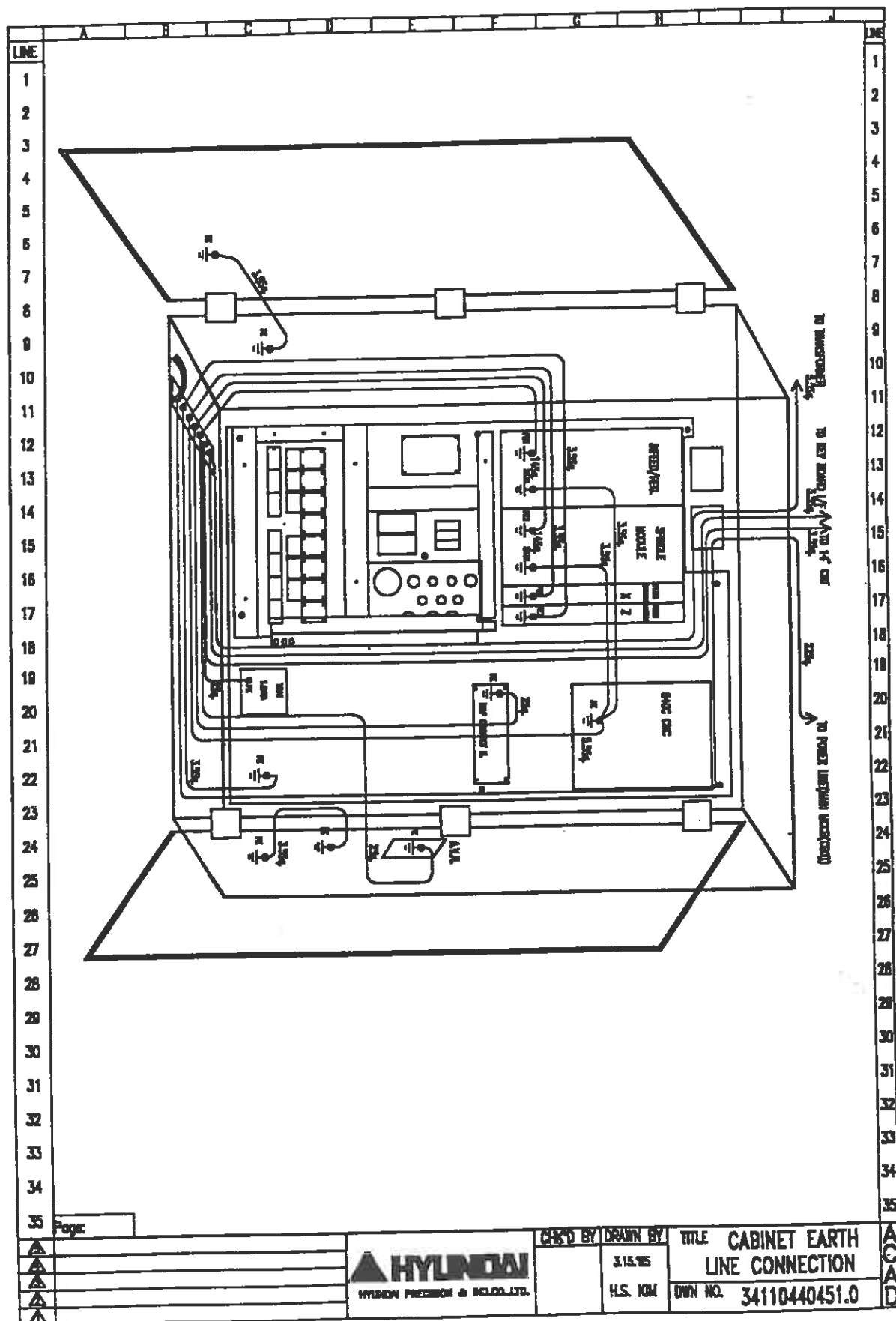


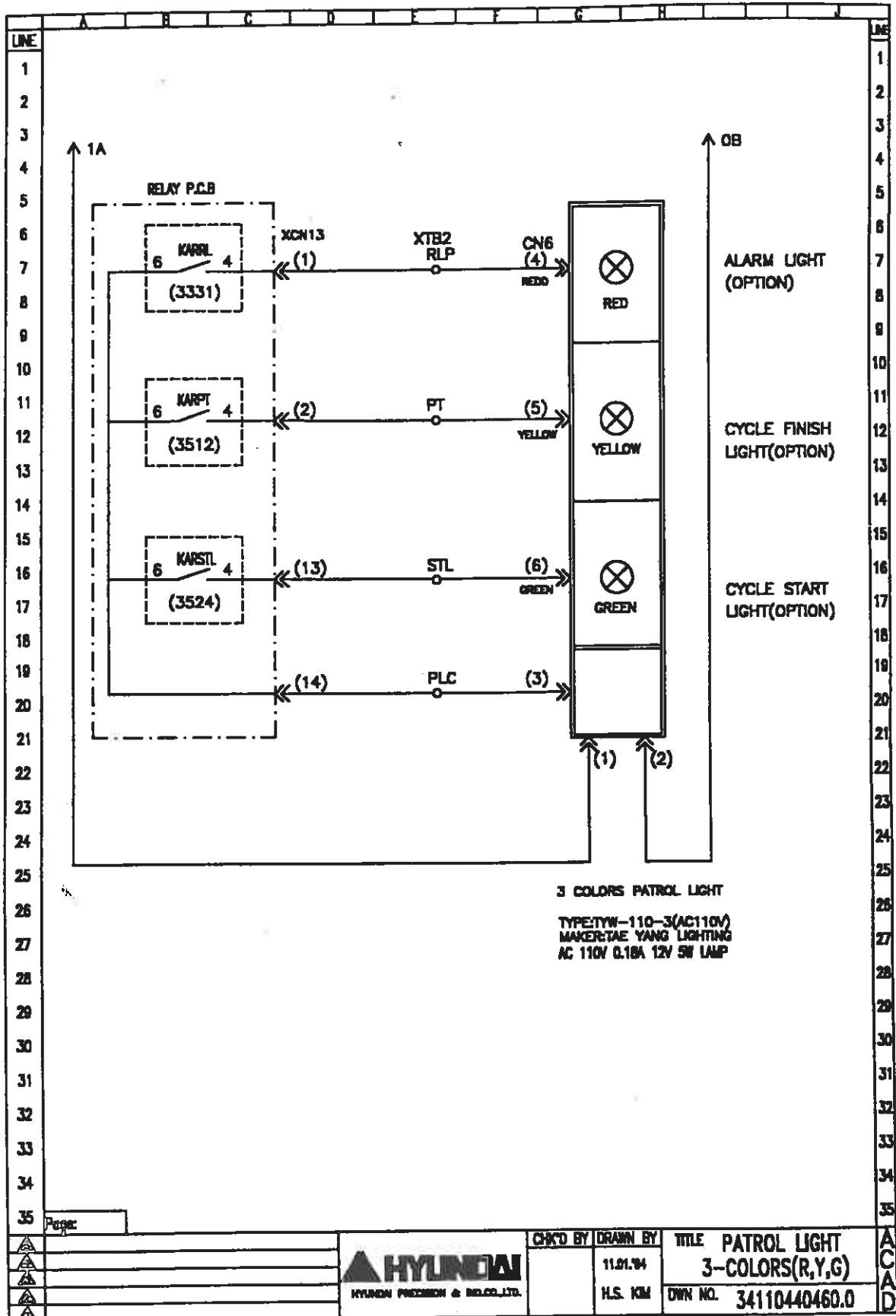


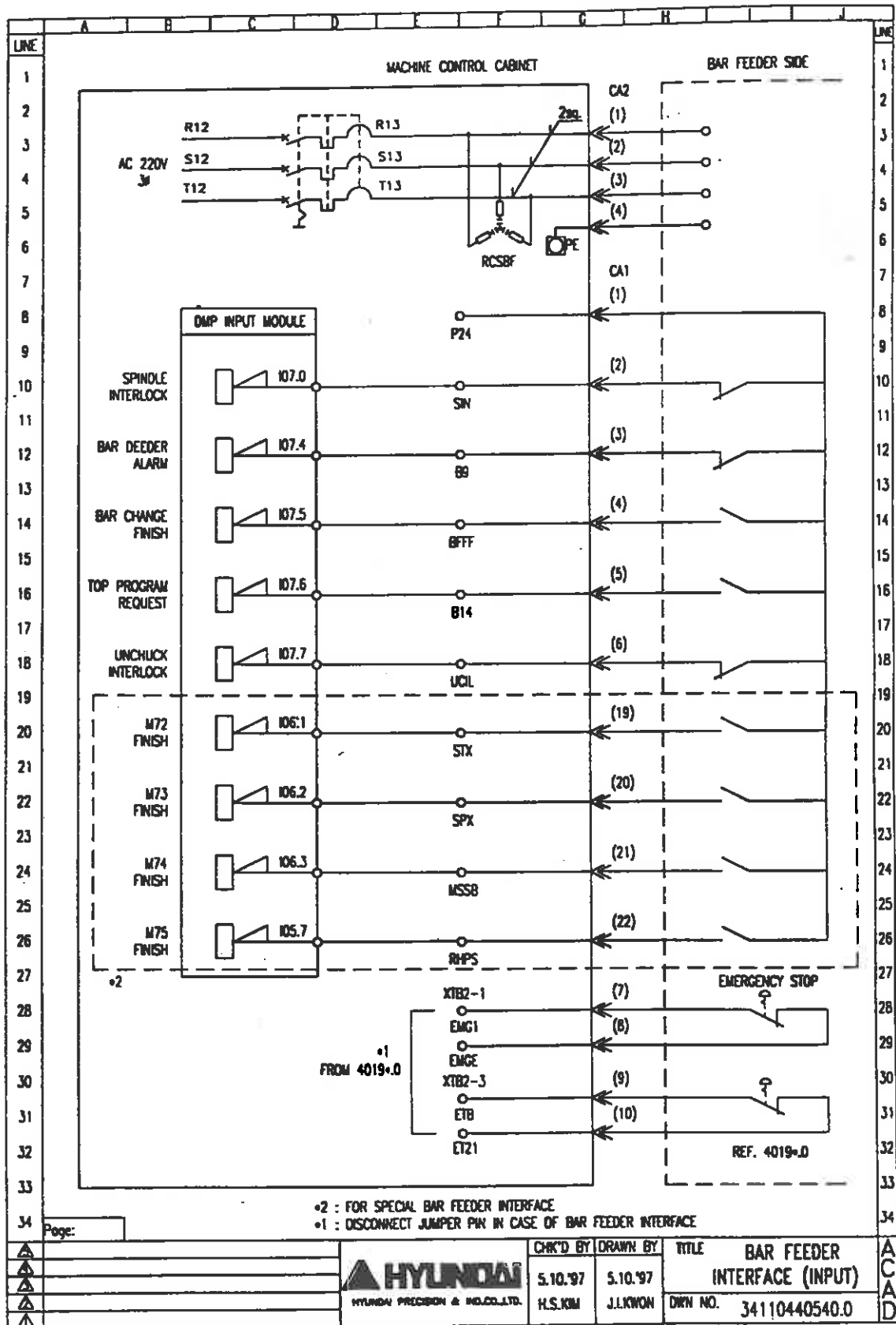


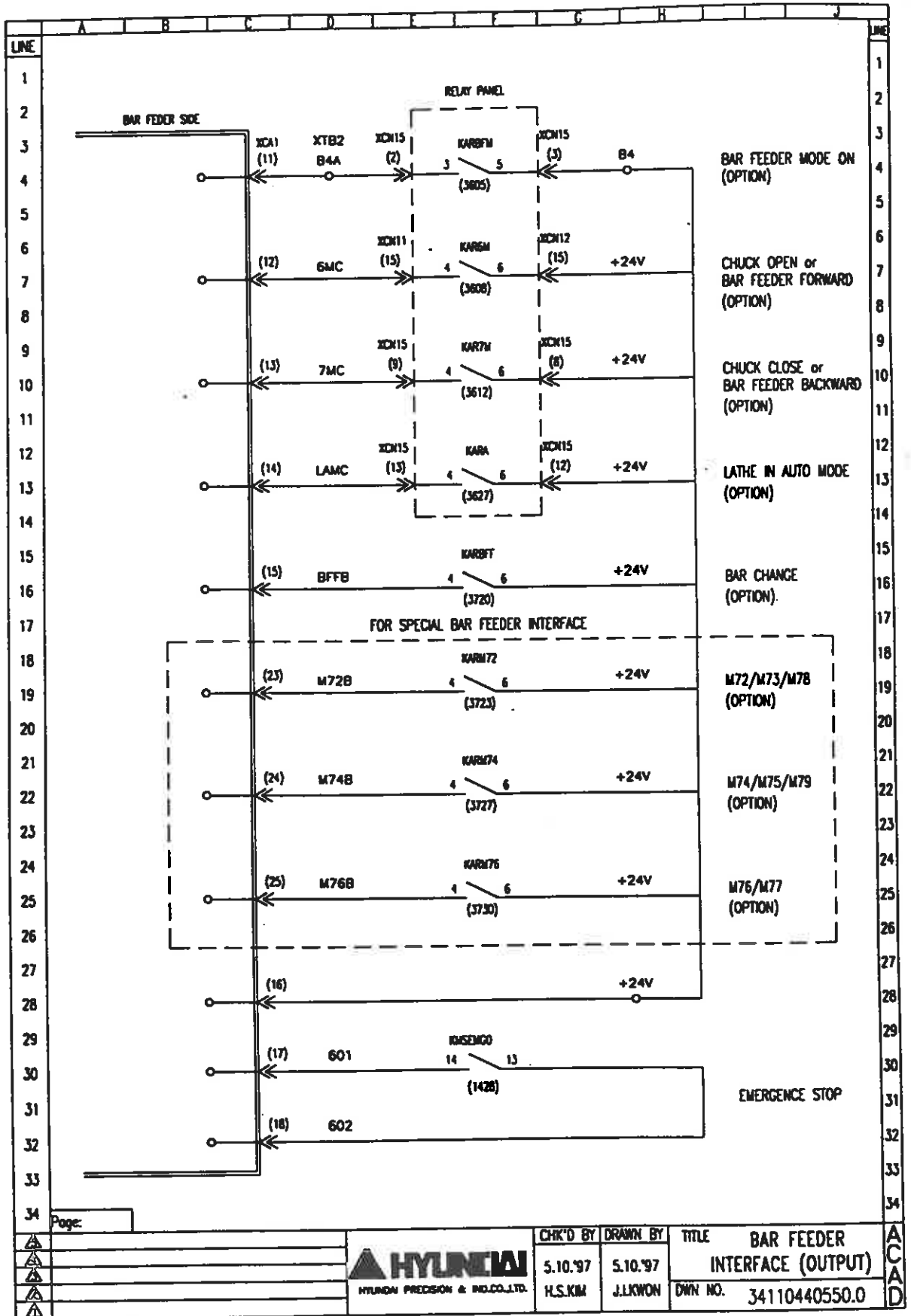


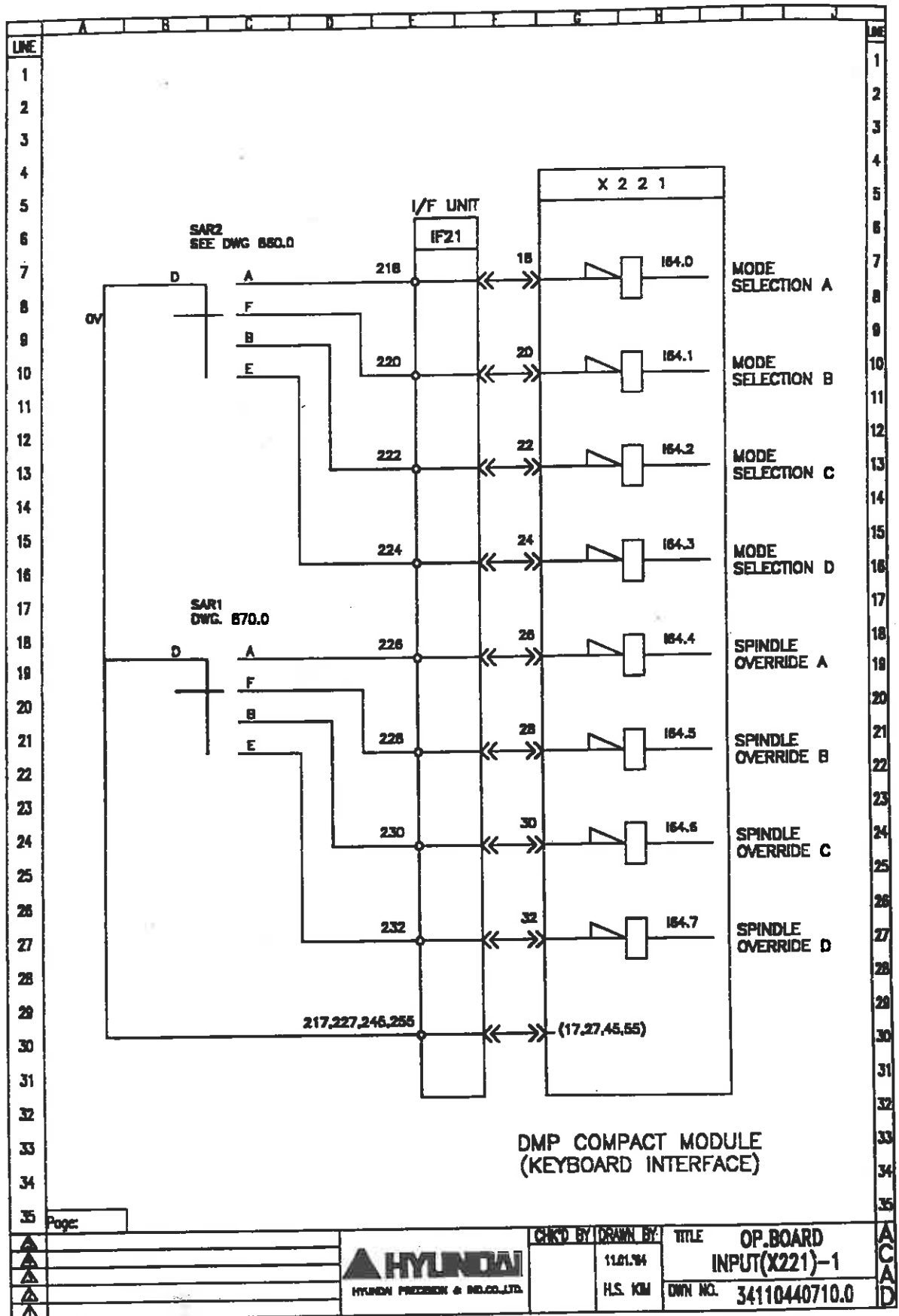


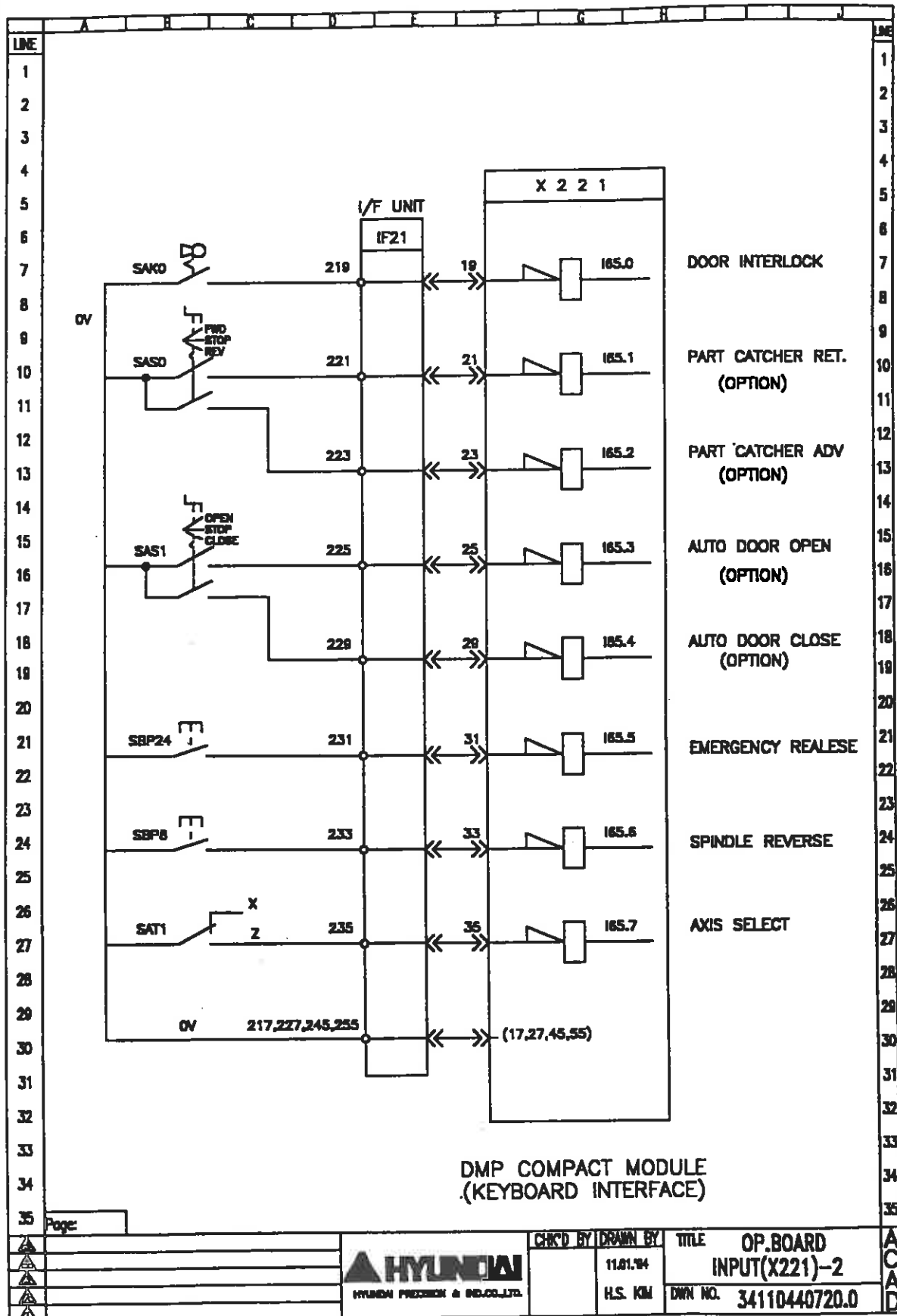


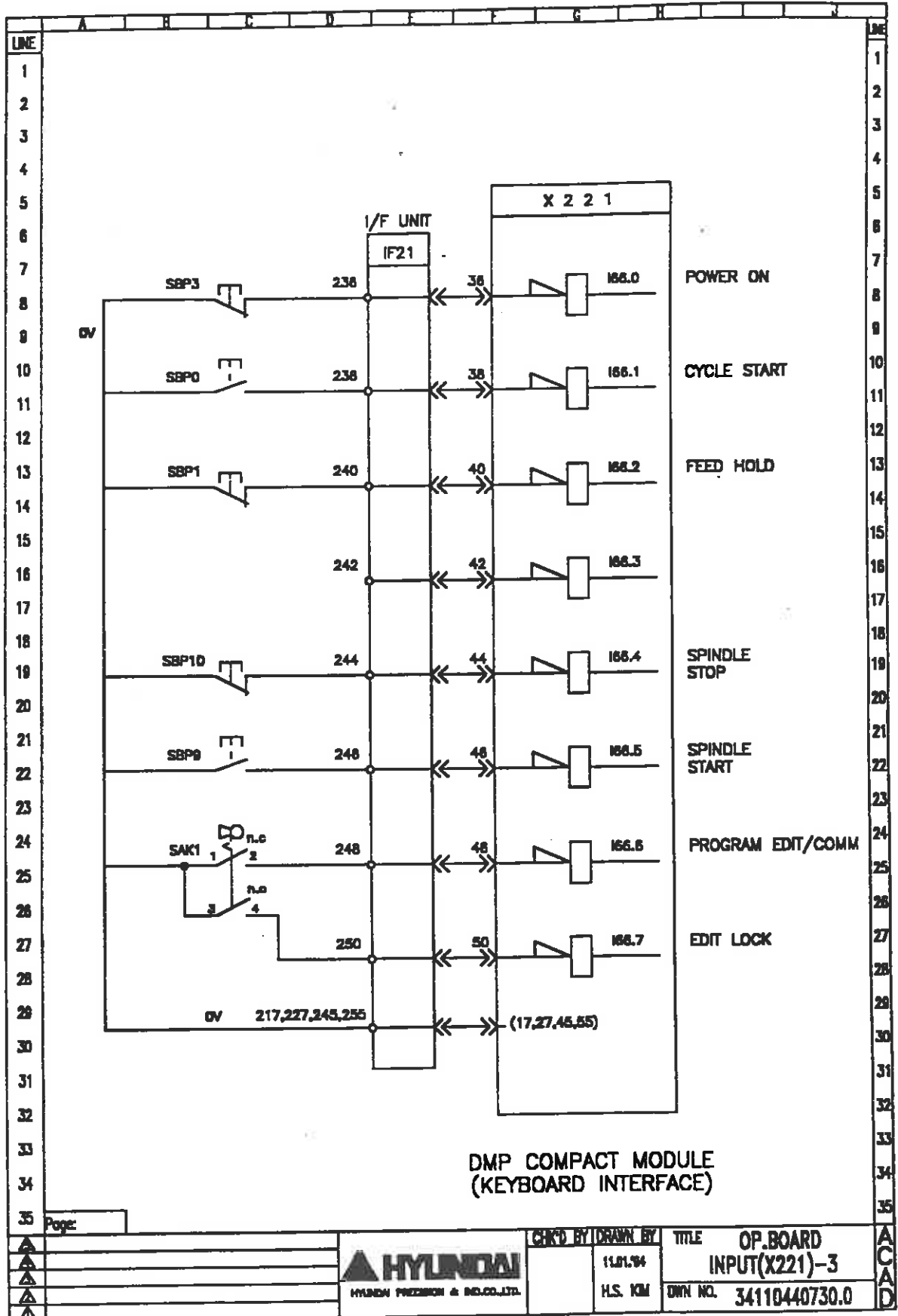


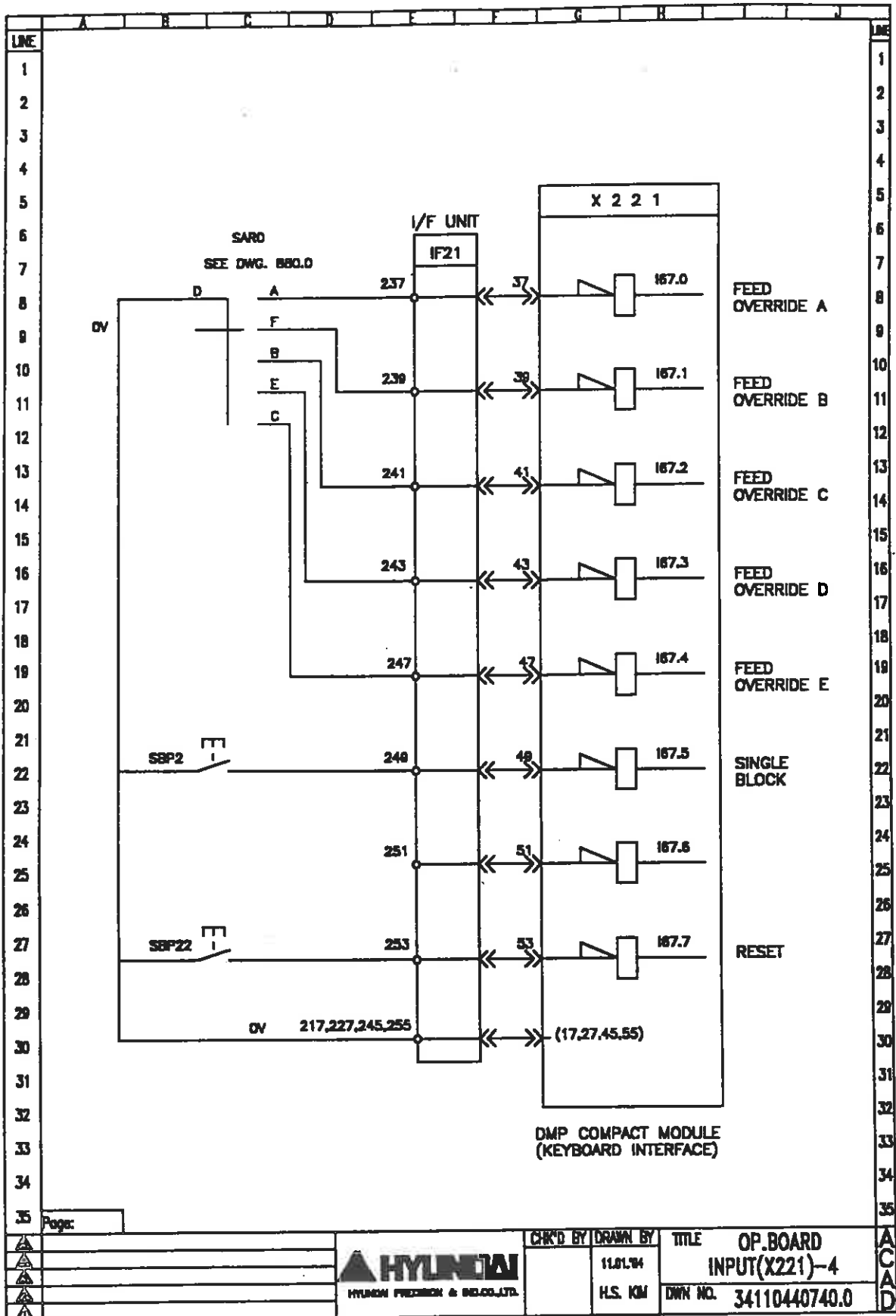


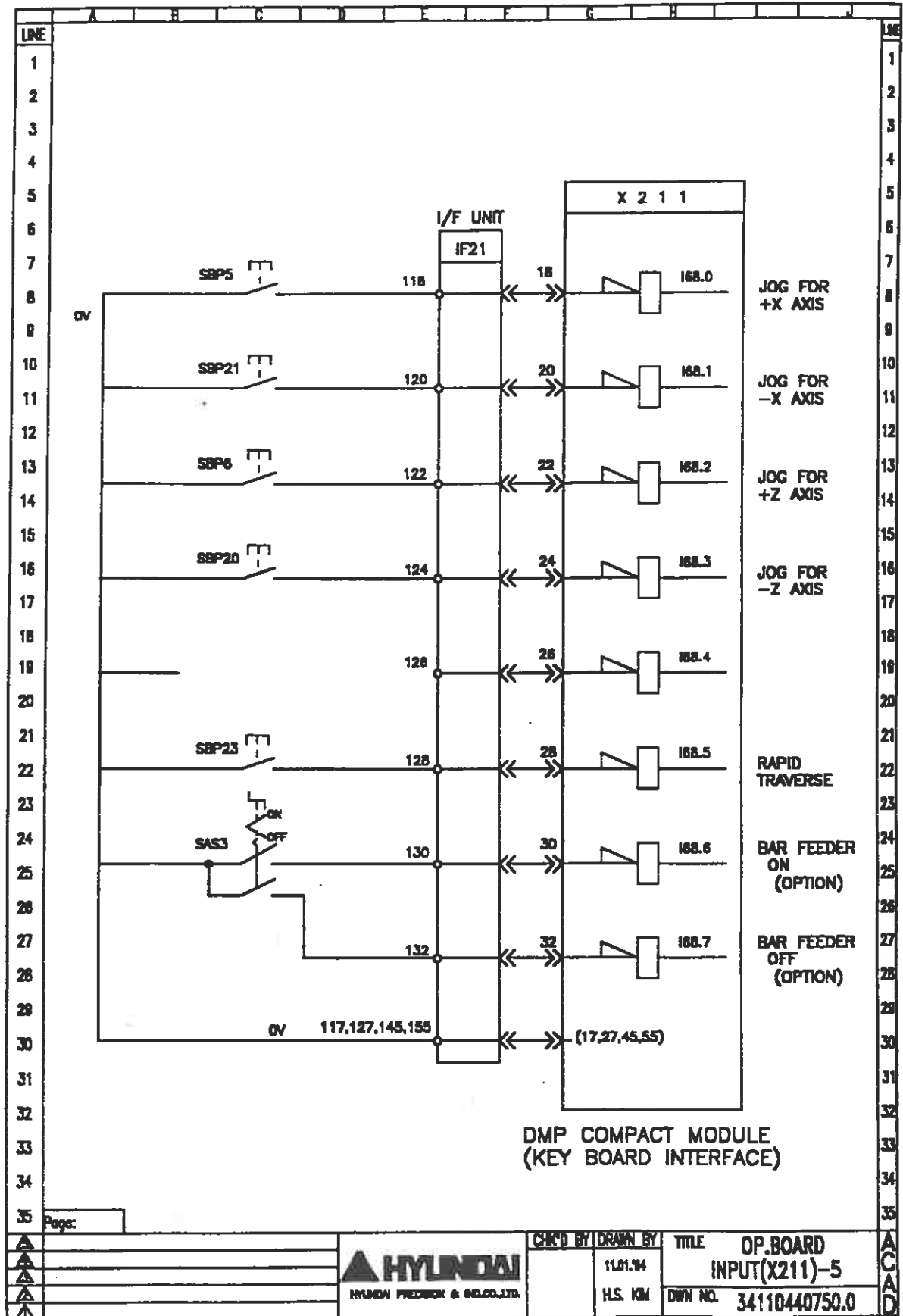


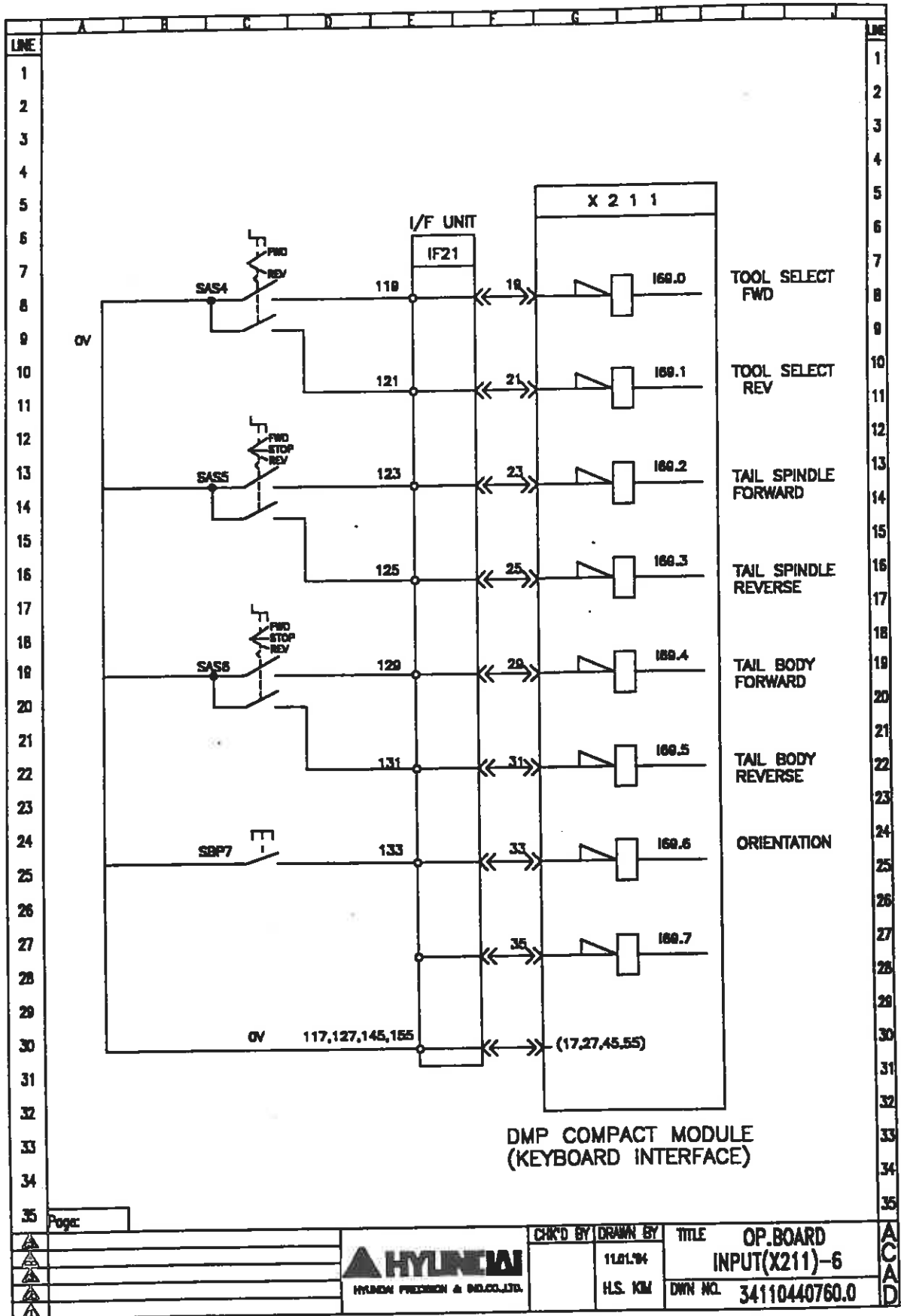


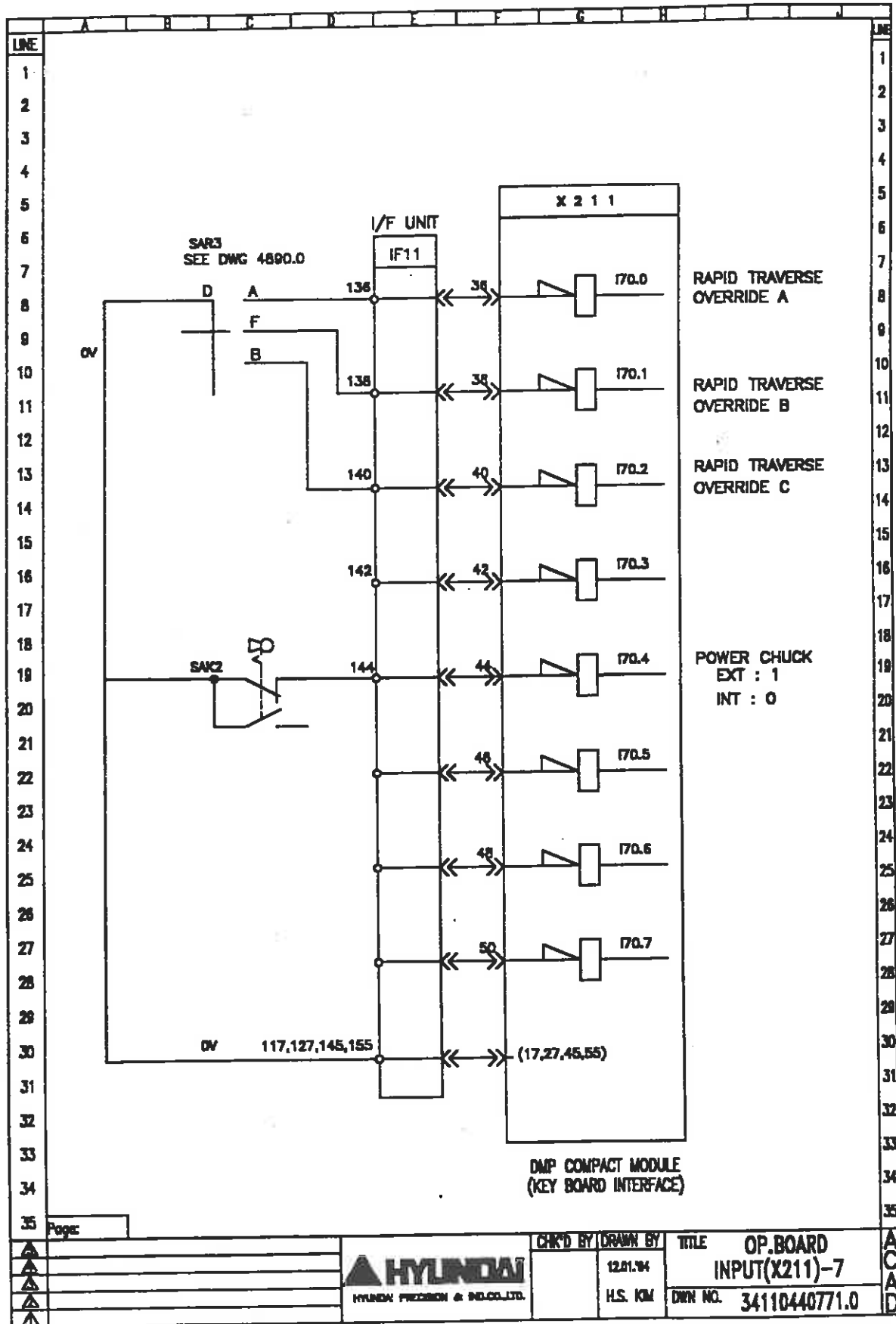


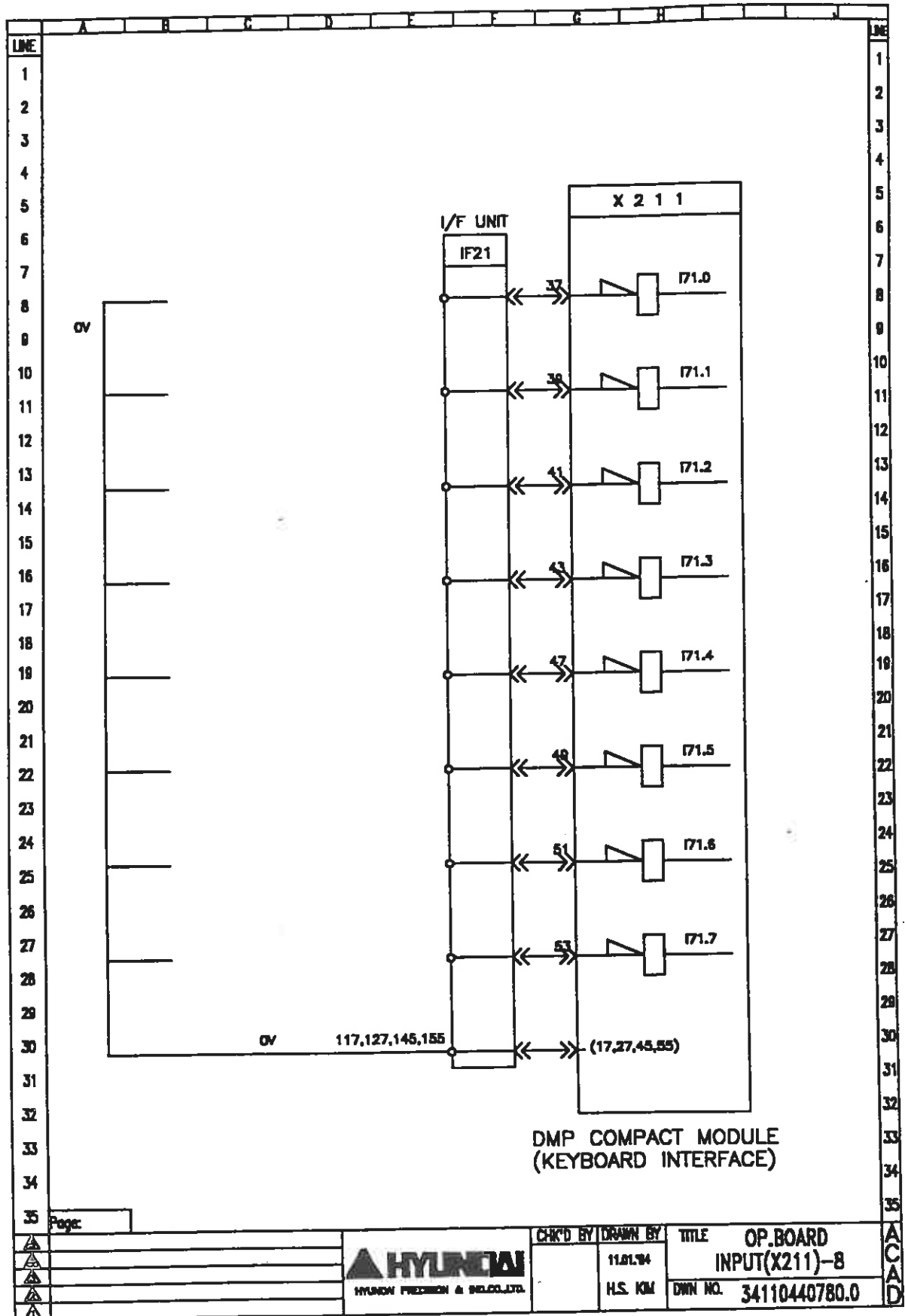


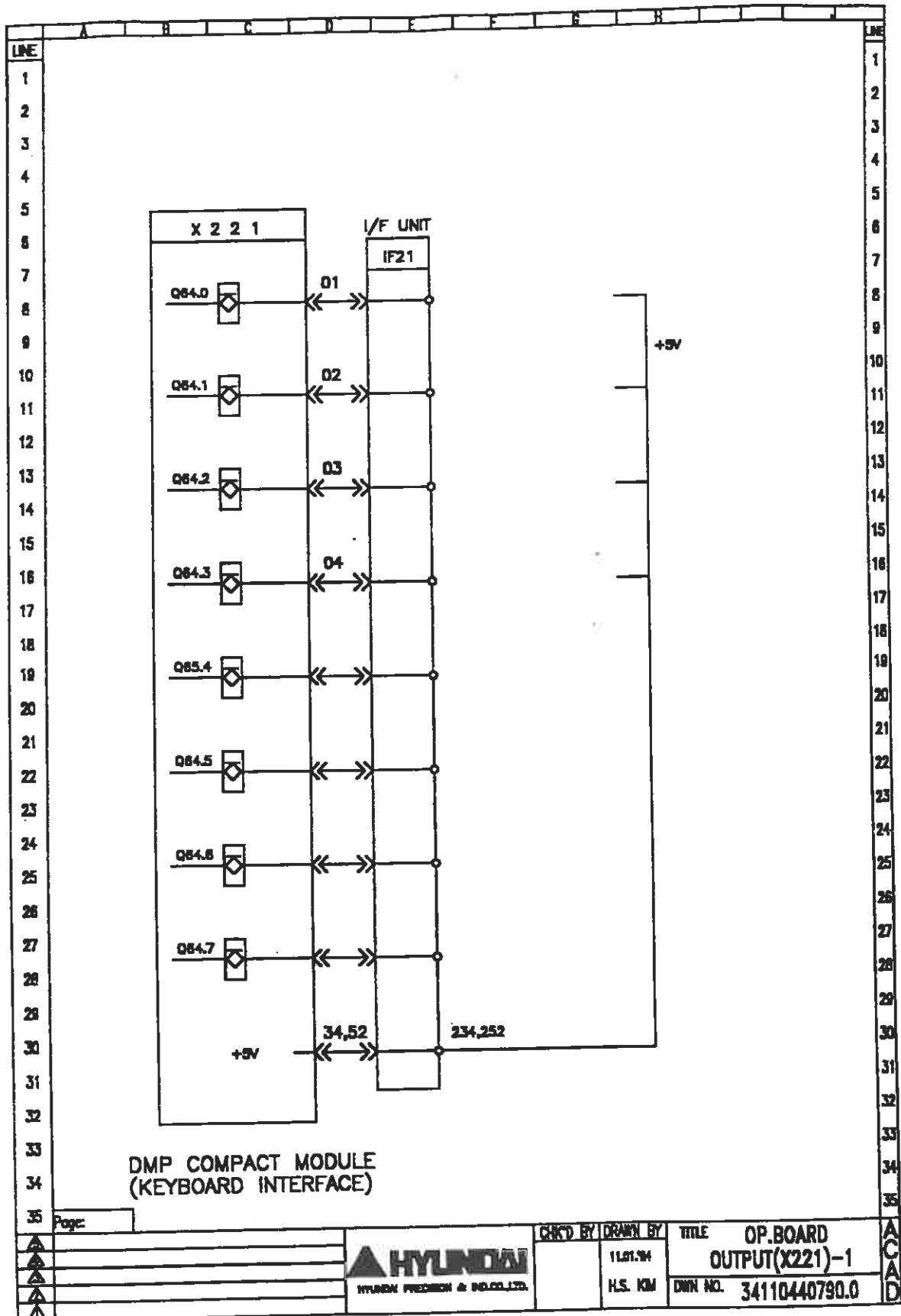


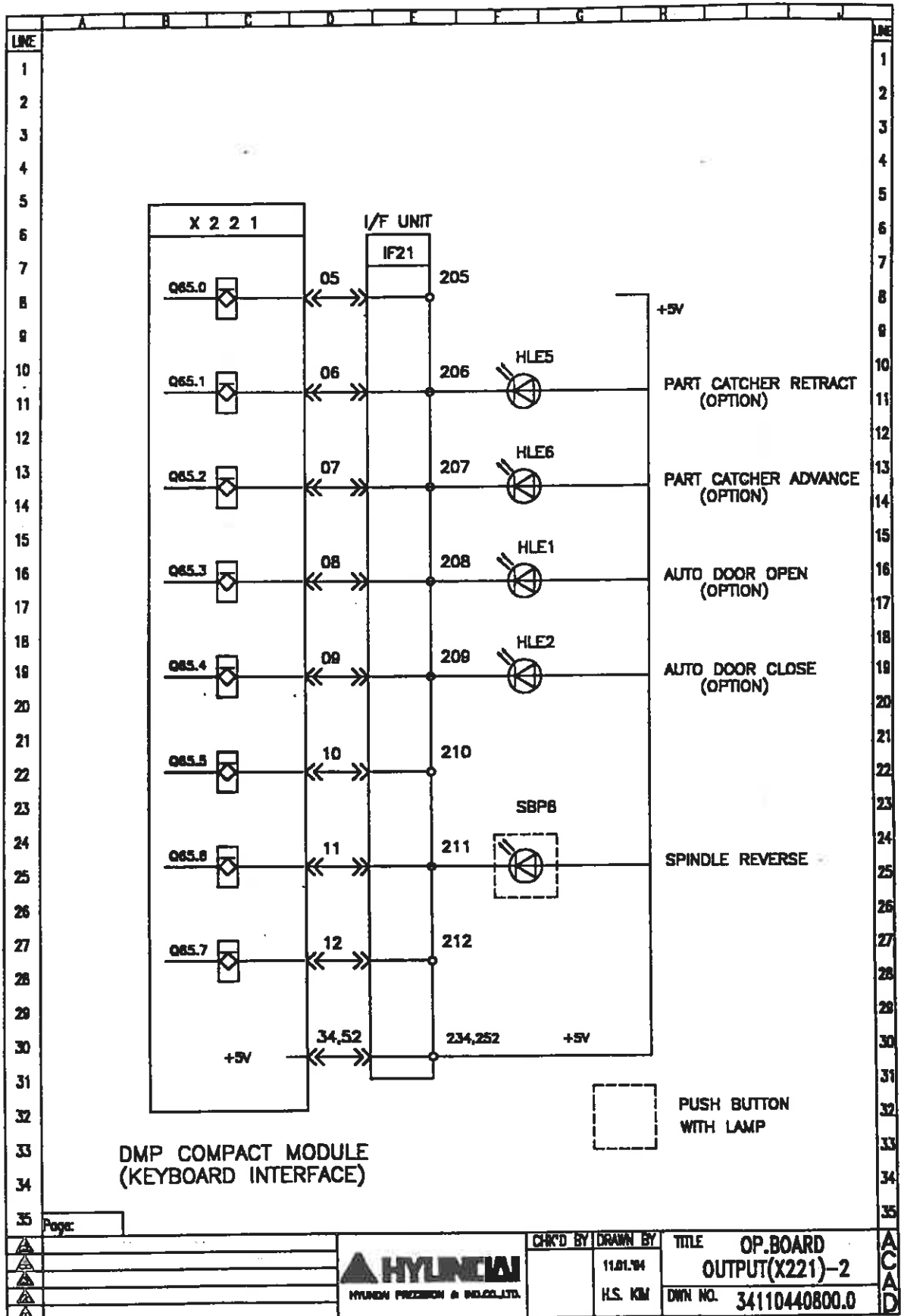




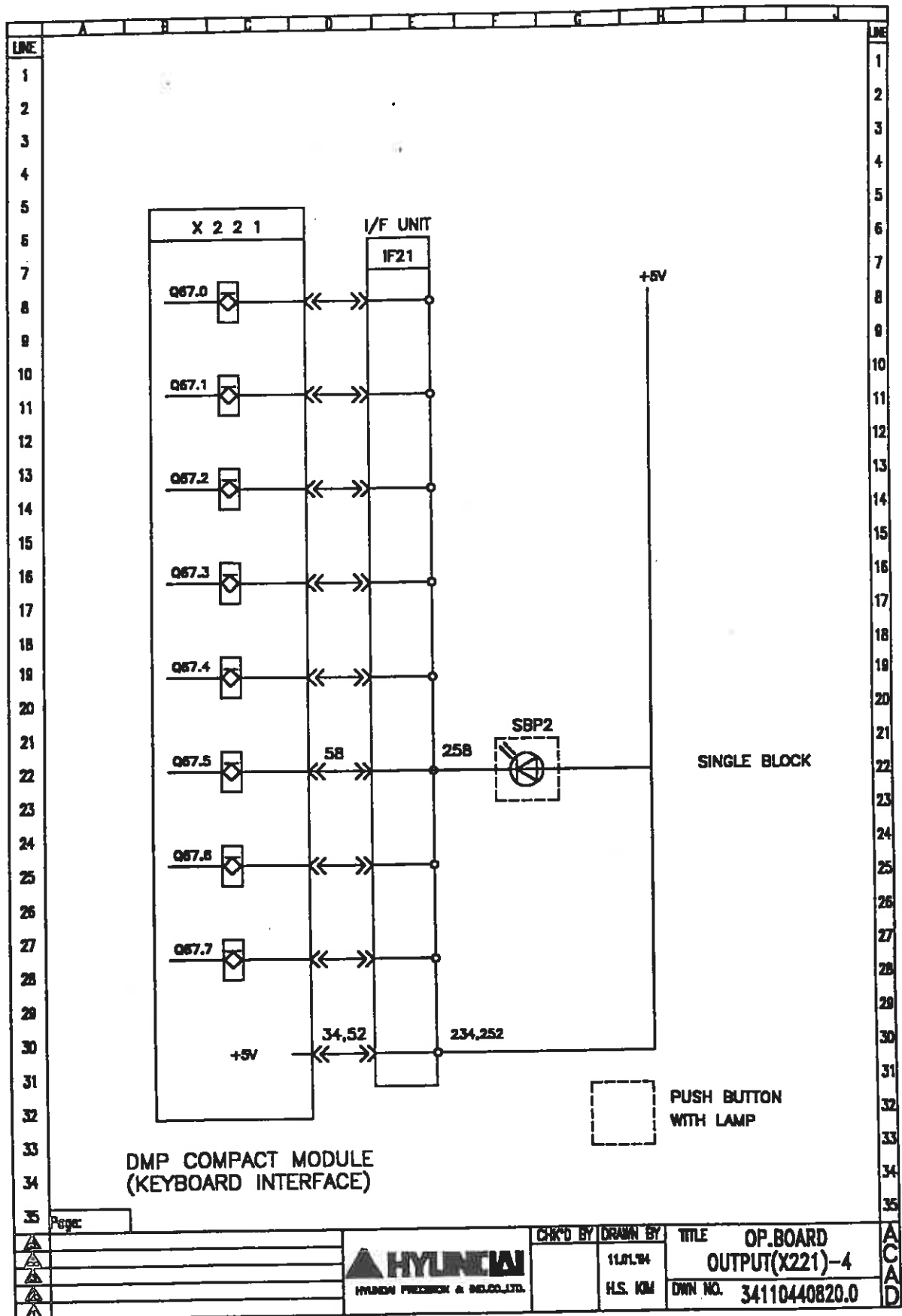


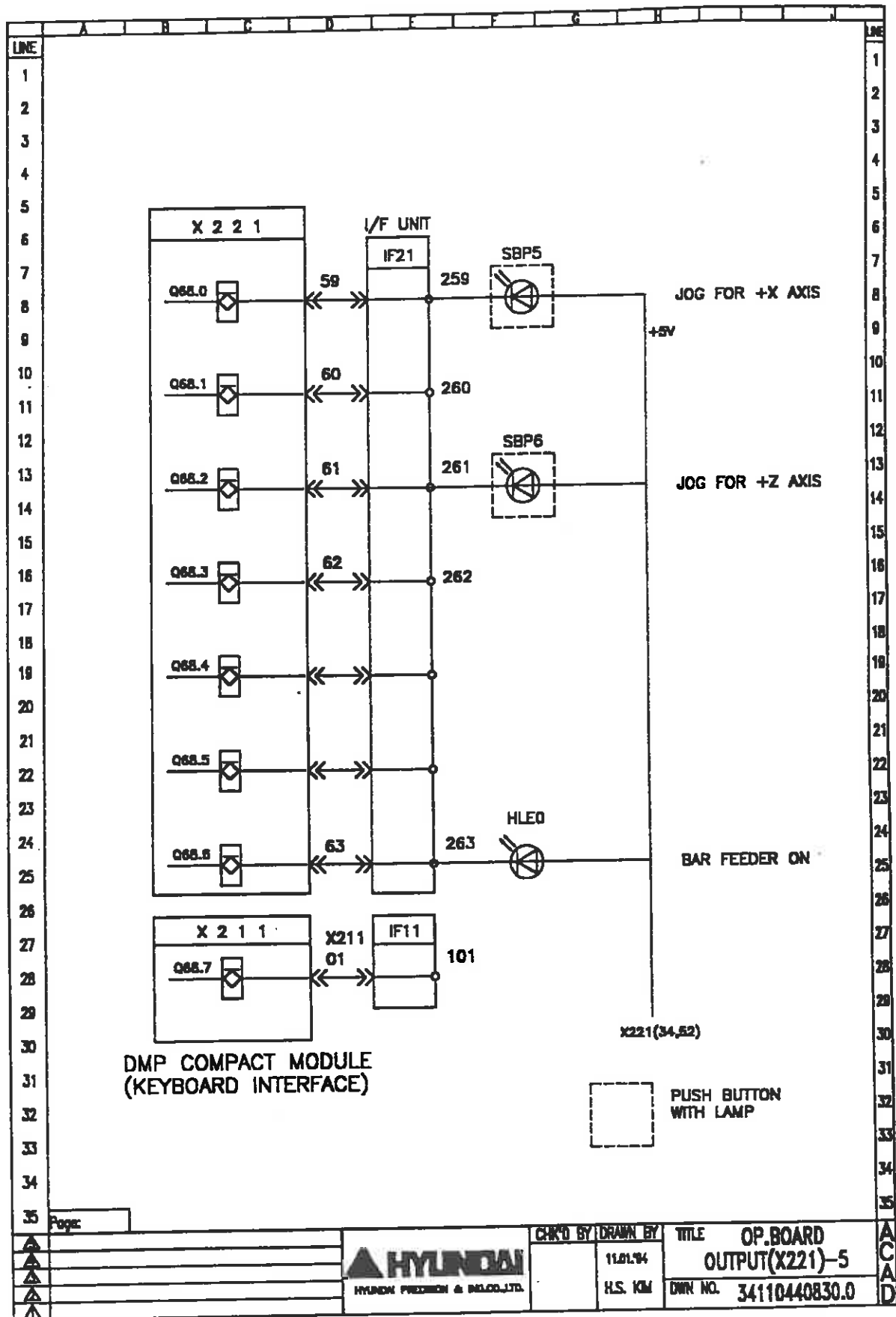


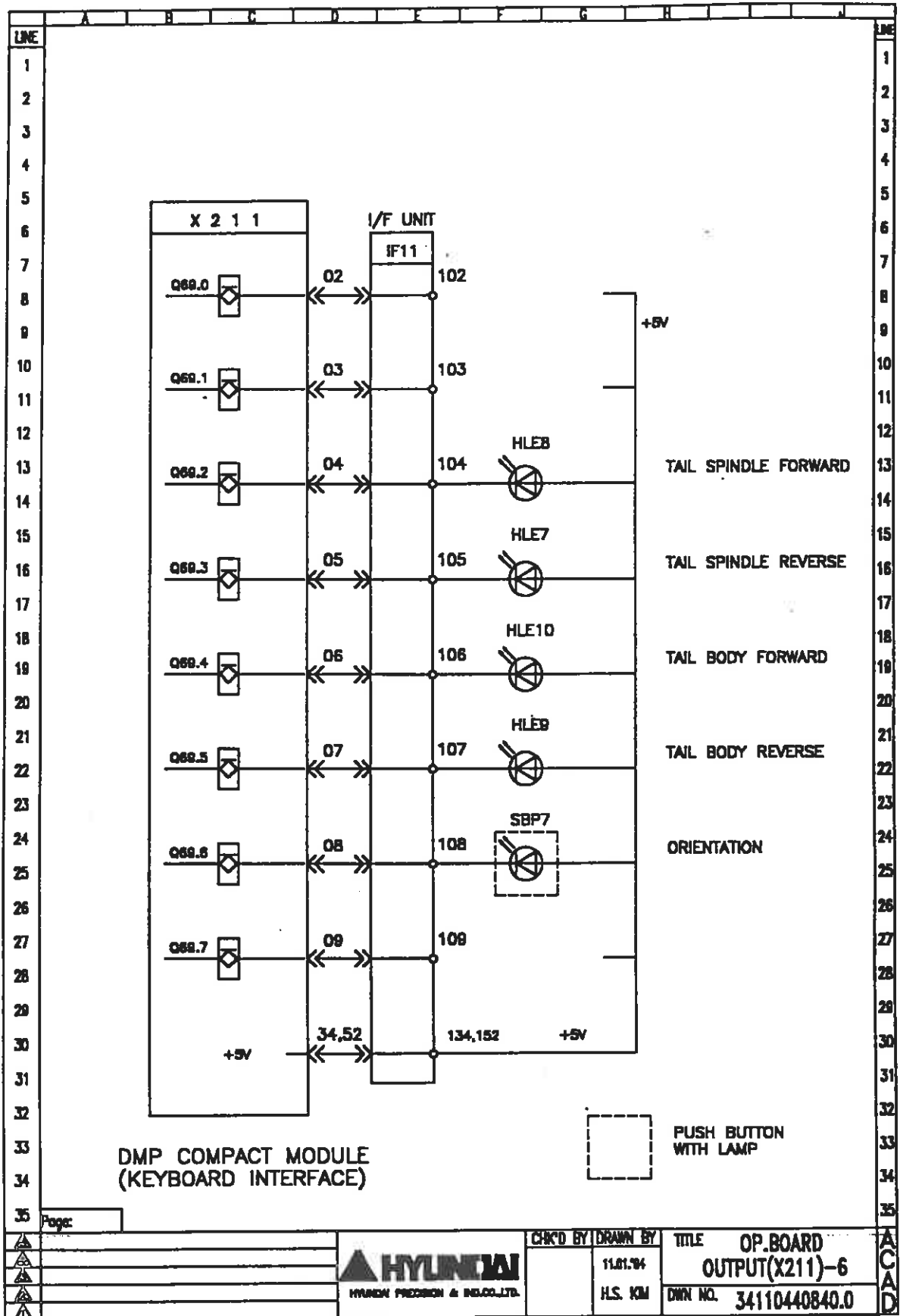


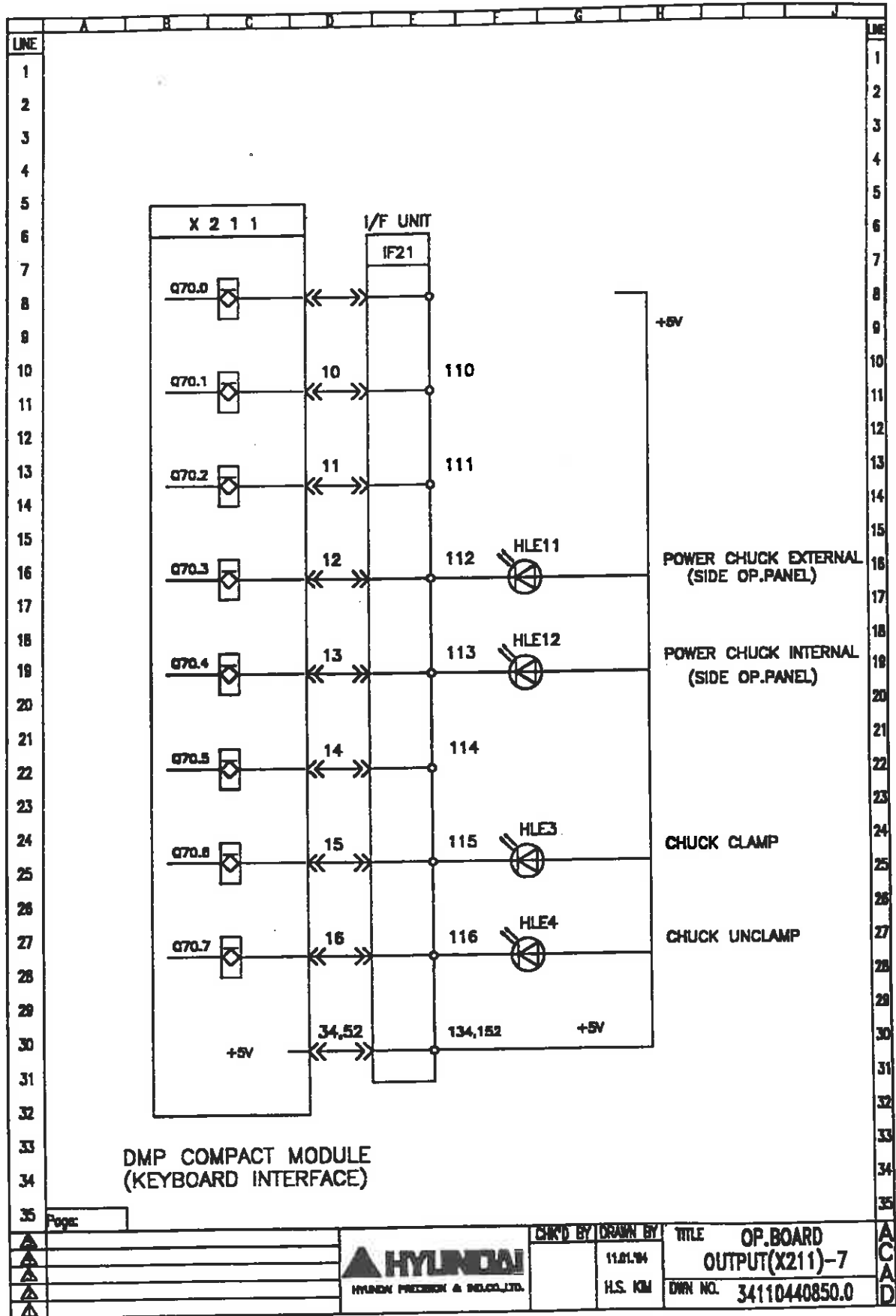












MODE SELECT(SAR2)
SPEC : AC09GX(30°) - FUJI

POSITION	I64.0 MODE A	I64.1 MODE B	I64.2 MODE C	I64.3 MODE D
1	○			
2	○	○		
3		○		
4		○	○	
5	○	○	○	
6	○		○	
7			○	
8			○	○
9	○		○	○
10	○	○	○	○

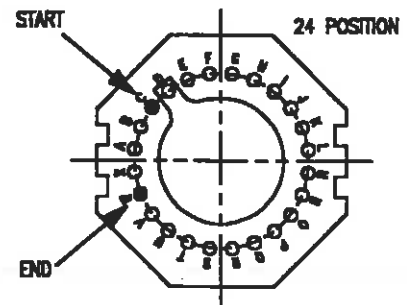
REF
MDA
TEACH IN
REPOS
[.]
1
10
100
JOG
AUTO

STOPPER • START POSITION : "C"
POSITION • END POSITION : "W"

IN CASE OF GX TYPE(GRAY CODE)

0	1	2	3	4	5	6	7	8	9	10	11
A	G	R	E	I	K	M	O	R	S	U	W

START ↑ ↑ END



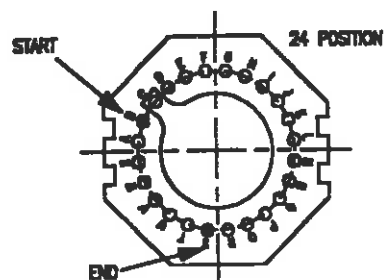
Page:		 HYUNDAI PRECISION & INDUSTRY LTD.	CHK'D BY	DRAWN BY	TITLE
				11.01.94	SAR2 ROTARY SWITCH DRAWING
				H.S. KW	DWN NO. 34110440860.0

SPINDLE OVERRIDE(SAR1) SPEC : AC09-GY(15°) - FUJI

POSITION	I64.4 MODE A	I64.5 MODE B	I64.6 MODE C	I64.7 MODE D	
1	○				50%
2	○	○			55%
3		○			60%
4		○	○		65%
5	○	○	○		70%
6	○		○		75%
7			○		80%
8			○	○	85%
9	○		○	○	90%
10	○	○	○	○	95%
11		○	○	○	100%
12		○		○	105%
13	○	○		○	110%
14	○			○	115%
15				○	120%
16				○	120%

○ : CONTACT ON

STOPPER • START POSITION : "B"
POSITION • END POSITION : "S"



Page:

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H.S. KIM

TITLE SAR1 ROTARY
SWITCH DRAWING

DWN NO. 34110440870.0

LINE	A	B	C	D	E	F	G	H	I	J	LINE
1											1
2											2
3											3
4											4
5											5
6											6
7											7
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29											29
30											30
31											31
32											32
33											33
34											34
35											35

POSITION	167.0 FEED OVR A	167.1 FEED OVR B	167.2 FEED OVR C	167.3 FEED OVR D	167.4 FEED OVR E	
1	○					0%
2	○	○				1%
3		○				2%
4		○	○			4%
5	○	○	○			6%
6	○		○			8%
7			○			10%
8			○	○		20%
9	○		○	○		30%
10	○	○	○	○		40%
11		○	○	○		50%
12		○		○		60%
13	○	○		○		70%
14	○			○		75%
15				○		80%
16				○	○	85%
17	○			○	○	90%
18	○	○		○	○	95%
19		○		○	○	100%
20		○	○	○	○	105%
21	○	○	○	○	○	110%
22	○		○	○	○	115%
23			○	○	○	120%

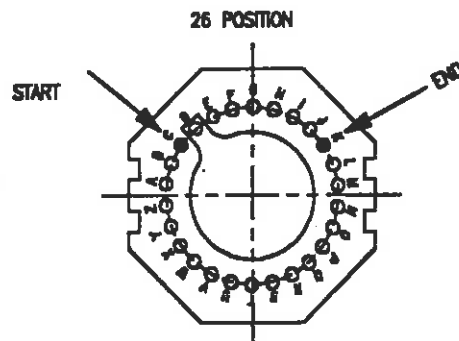
STOPPER • START POSITION : "B"
 POSITION • END POSITION : "Z"

RAPID OVERRIDE(SAR3)
SPEC :AC09-GW(27.7°) - FUJI

POSITION \	I70.0 FEED OVR A	I70.1 FEED OVR B	I70.2 FEED OVR C
1	○		
2	○	○	
3		○	
4		○	○

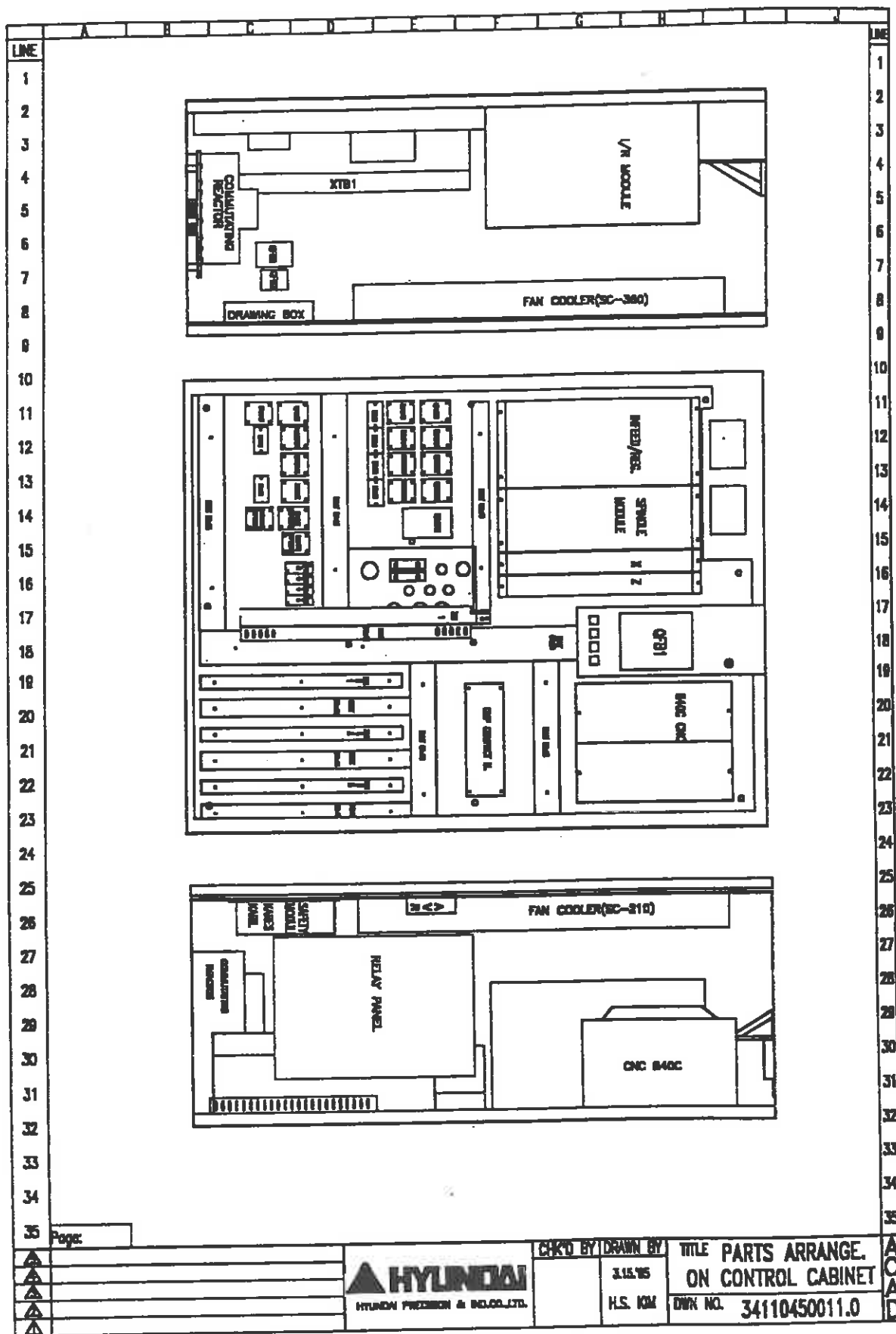
0%
10%
50%
100%

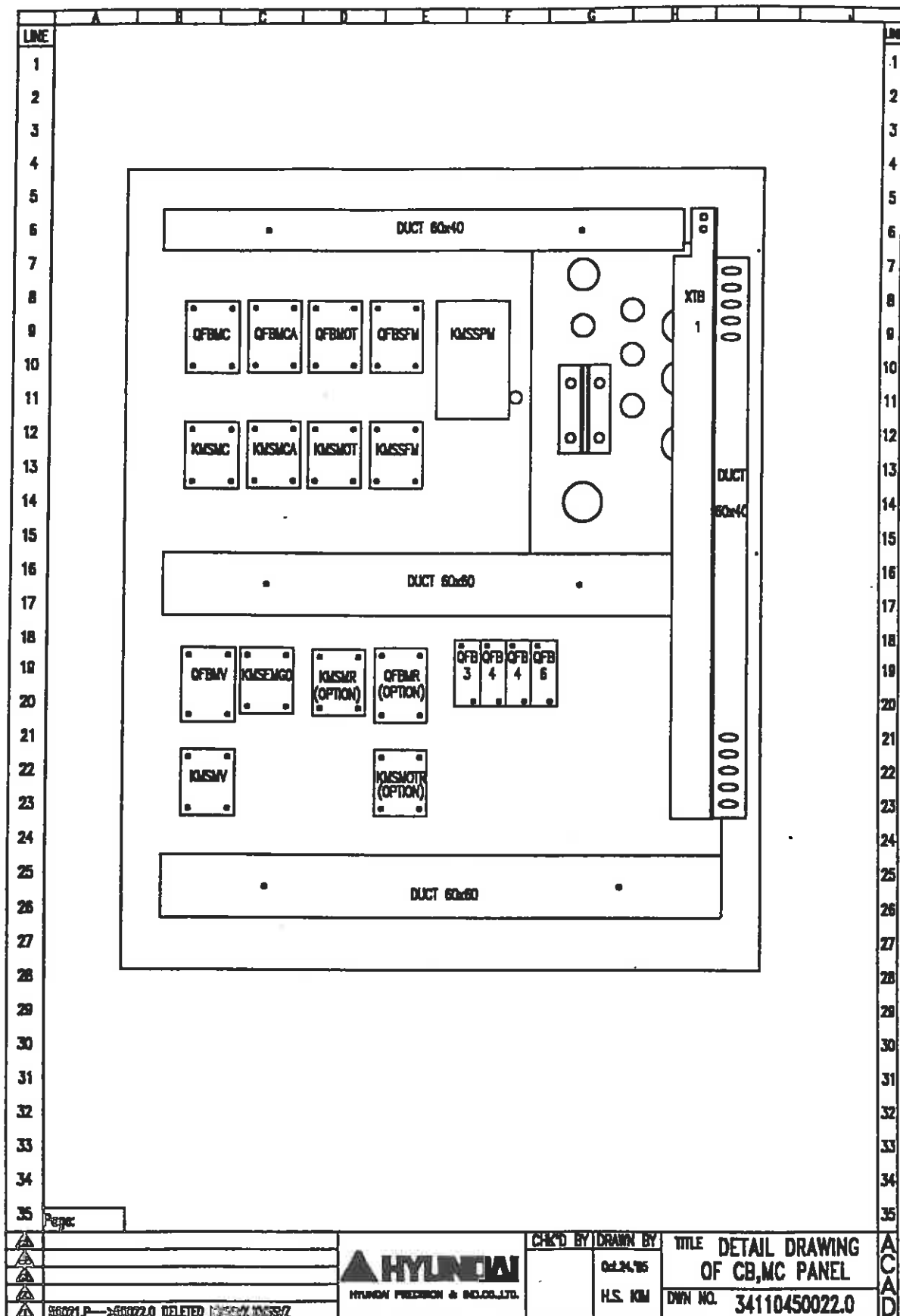
STOPPER • START POSITION : "C"
POSITION • END POSITION : "K"



Page:		 HYUNDAI PRECISION & INDUSTRY LTD.	CHK'D BY	DRAWN BY	TITLE
				12.01.94	SAR3 ROTARY SWITCH DRAWING
			H.S. KIM	DWN NO.	34110440890.0

LINE	A	B	C	D	E	F	G	H	I	J	LINE
1	ELEMENTARY DIAGRAM LIST										1
2											2
3	SHEET		TITLE								3
4	5001		PARTS ARRANGEMENT ON CONTROL CABINET								4
5	5002		DEETAIL DRAWING OF CB,MC PANEL								5
6	5003		PARTS LIST 1,2(CABINET)								6
7	5004										7
8	5005		TERMINAL BLOCK LAY-OUT1(XTB1/2)								8
9	5006		TERMINAL BLOCK LAY-OUT2(XTB2)								9
10	5007										10
11	5008										11
12	5009		CONNECTOR TABLE 1								12
13	5010		CONNECTOR TABLE 2								13
14											14
15											15
16											16
17	5021		EXTERNAL CABLE CONNECTION 1								17
18	5022		EXTERNAL CABLE CONNECTION 2								18
19	5023		EXTERNAL CABLE CONNECTION 3								19
20											20
21											21
22											22
23											23
24	5030		TOTAL CONNECTION								24
25											25
26											26
27											27
28											28
29											29
30											30
31											31
32											32
33											33
34											34
35	Page:										35
	 HYUNDAI PRECISION & IND.CO.,LTD.		CHK'D BY		DRAWN BY		TITLE		ELEMENTARY DIAGRAM LIST DWN NO. 34110450002.0		A C A D





PARTS LIST(CABINET)-1

LINE	INDEX No.	SYMBOL	PARTS No.	PARTS NAME	SPECIFICATION	MARK	QTY	CERTIFICATE No.	REMARK
1	Q7B1	DS11P000050		LOAD BREAK SWITCH	VS-V12(18-420V/125A)	TELEMECANIQUE	1		
2	Q7B2	DS11P000010		CIRCUIT BREAKER(MCB)	GC3-6700(60A)	TELEMECANIQUE	1		
3	Q7B2	DS11P000010		CIRCUIT BREAKER(MCB)	GC2-1522(25A)	TELEMECANIQUE	1		
4	Q7BAC(MCB)	DS11P000040		CIRCUIT BREAKER(MCB)	GC2-RS04(1.0-1.8A)	TELEMECANIQUE	3		
5	Q7B-	DS11P000040		AUX. CONTACTOR	GC2-AM11	TELEMECANIQUE	8		
6	Q7B7M	DS11P000010		CIRCUIT BREAKER(MCB)	GC2-RS04(0.43-0.63A)	TELEMECANIQUE	1		
7	Q7BAC	DS11P000010		CIRCUIT BREAKER(MCB)	GC2-RS14(0.0-1.0A)	TELEMECANIQUE	1		
8	Q7B3	DS11P010040		CIRCUIT PROTECTOR	GC2-C020(2A) With AX	TELEMECANIQUE	1		
9	Q7B4	DS11P010050		CIRCUIT PROTECTOR	GC2-C014(0.4A) With AX	TELEMECANIQUE	2		
10	Q7B4	DS11P010020		CIRCUIT PROTECTOR	GC2-C010(5A) With AX	TELEMECANIQUE	1		
11	SM51	DS50M000000		SWITCHING POWER SUPPLY	ENS150-24(180W)	MEAG LAMEDA	1		
12	WAB1(MCB)	DS11P001000		SAFETY MODULE	GSX-3182(400C)	TELEMECANIQUE	2		
13	KASAC, etc.	DS11P000010		MAGNETIC CONTACTOR	LC1-D08107(4-4A) D4CU	TELEMECANIQUE	8		
14	KASNYZ	DS11P000020		MAGNETIC CONTACTOR	LC1-D18117(4-4A) D4CU	TELEMECANIQUE	0		
15	KASNYZ	DS11P000020		MAGNETIC CONTACTOR	LC1-D06117(4-4A) D4CU	TELEMECANIQUE	0		
16	KASNYZ	DS11P000070		MAGNETIC CONTACTOR	LC1-D08117(4-4A) D4CU	TELEMECANIQUE	1		
17	RCS1-5	DS3P4001360		SPARK KILLER(19A3)	KE1201(0.1uF 1200Vmm 250V/25)	OKAYA	5		
18	RCS	DS3P4001360		SPARK KILLER(19A)	KE1201(0.1uF 1200Vmm 250V)	OKAYA	26		
19	LM18	DS78ID4000102		FAN COOLER	FC-2-11 AC110V	DNE YANG	1		
20	LM18	DS78ID4000101		FAN COOLER	FC-1-11 AC110V	DNE YANG	1		
21	R30	DS30Z001810		RESISTOR	1500hm 60W		1		
22	CA	DS44B002100		CONDENSER	10uF+2uF 220VAC	ORIENTAL	1		
23	TCOM, etc.	DS27C0000200		S.S.R.	CSW-20GB DC 24V	DAIHON	3		
24		DS41C000120		RELAY SOCKET	PT08	DAIHON	43		
25		DS41C0000800		RELAY SOCKET	PT14	DAIHON	5		
26		DS41C000050		RELAY HOLDER	PTC-F(L)22	DAIHON	27		
27		DS41C000080		RELAY HOLDER	PTC-3(G2A)	DAIHON	5		
28	WAB08, etc.	DS41C000010		CONTROL RELAY	GC2-432A DC24V	DAIHON	5		
29	WAB08, etc.	DS41C000100		POWER RELAY	L72 DC24V	DAIHON	27		
30	R7B8	DS30Z001870		RESISTOR	3.3kOhm 1/2W		1		
31	R7B8	DS30Z001330		RESISTOR	1kOhm 1/4W		1		
32	R7B8	DS30Z001740		RESISTOR	470hm 3W		1		
33	TR1	DS41E000330		TRANSFORMER	30 100VA 400/220V	JEL TR.	1		
34	TR1	DS41E000310		TRANSFORMER	10 150VA 220/110V	JEL TR.	1		

Page:



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02.10.95

H.S. KIM

TITLE

 PARTS LIST 1
(CABINET)

DWN NO.

34110450034.1

CHANGED COMPONENTS 50033.1-50034.1

LINE	INDEX No.	SYMBOL	PARTS No.	PARTS NAME	SPECIFICATION	MATERIAL	QTY	CERTIFICATE No.	REMARK
1	36	TR	D621000430	TRANSISTOR	2SC-2833		1		
2	37		D642001000	CABLE GLAND	PC28(WHITE)		1		
3	38	XCN1	D6410007860	CONNECTOR	MR-50RAD	HONDA	1		
4	39	XCN2	D6410007860	CONNECTOR	MR-20RAD	HONDA	1		
5	40	XCN1,4tc	D6410000010	CONNECTOR	MR2002Z(15P)	KEI	8		
6	41	XTR101	D632001010	TERMINAL BLOCK	8P		1		
7	42	HAB1	D6540000110	BULB	EB-1114 DC 24V	WATSHITA	1		
8	43	SNT1	D1740002860	TOGGLE SWITCH	WJ-22155	WOO JIN	1		
9	44	QTB1	D6170001010	SWITCH HANDLE	KCH-2T	TELEMECHANIQUE	1		
10	45	ST12	D164000176	FOOT SWITCH	RF-202P	KCH	1		
11	46	XTR1, XTR2	D630001000	TERMINAL BLOCK	DSTB-155	DONG SEO	180		
12	47	XTR1, XTR2	D630002000	END PLATE	DSTC-155	DONG SEO	8		
13	48	XTR1, XTR2	D630003000	NAME PLATE	DSN-155	DONG SEO	2		
14	49	XTR1, XTR2	D630004000	STOPPER	DSS-15	DONG SEO	8		
15	50	XTR1, XTR2	D630005000	COVER(TERMINAL BLOCK)	DSC-30	DONG SEO	2m		
16	51	XTR1, XTR2	D630006000	RAIL(4)	20mm	DONG SEO	2m		
17	52		D630007000	RAIL	35mm	TELEMECHANIQUE	2m		
18	53		D630008000	DUCT	80x80	KIM CHANG	m		
19	54		D630009000	DUCT	40x60	KIM CHANG	m		
20	55		D63001000	DUCT	80x80	KIM CHANG	m		
21	56		D63001100	DUCT	30x60	KIM CHANG	m		
22	57		D63001200	DUCT	25x55	KIM CHANG	m		
23	58	PE	D6460001510	EARTH BAR	25x25x6		1		
24	59	LF1	D632002000	LINE FILTER	450V 3P		1		
25	60	XCN1	D6410002860	CONNECTOR	MR-50M	HONDA	1		
26	61	XCN2	D6410002860	CONNECTOR	MR-20M	HONDA	1		
27	62	XCN1	D6410002860	CONNECTOR	MR-50T01	HONDA	1		
28	63	XCN2	D6410002860	CONNECTOR	MR-20T01	HONDA	1		
29	64	XCN1	D6410002860	CONNECTOR	MRP-5102	HONDA	70		
30	65		D6460001030	WRE	CO-RV 0.7554 BLUE	GOLD STAR	m		
31	66		D6460001130	WRE	CO-RV 1.2554 RED	GOLD STAR	m		
32	67								
33	68								
34	69								
35	70								

LINE	INDEX No.	SYMBOL	PARTS No.	PARTS NAME	SPECIFICATION	WAGER	QTY	CERTIFICATE No.	REMARK
1									
2									
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34									
35									

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TITLE

PARTS LIST 3 (CABINET)

OWN NO.

34110450033.3

LINE	A	B	C	D	E	F	G	H	I	J	LINE
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
11											11
12											12
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28											28
29											29
30											30
31											31
32											32
33											33
34											34
35											35

XTB1 (AC LINE)		XTB-1 (DC LINE)	
1	1A	41	5A
	1A		5B
	1A		OB
	1A		OB
5	3F	45	82
	3D		81
	3C		8
	OB		84
	OB		20
10	3B	50	25
	2A		28
	OB		28
	TH7XA		OB
	8		OB
15	10A	55	121
	1		18
	1		19
	OB		30
	HYDF		31
20	DRVM	60	RLP
	SPM		PT
	SFM		STL
	EMGO		PLC
	7		3A
25	7	65	OA
	OB		R11
	OB		T11
	7E		PE
	7E		PE
30	11	70	PE
	1		PE
	15		PE
	18		PE
	OB		PE
35	OB		PE
	20		PE
	21		PE
	1E	75	R13
	1E	76	T13
40	22		

1	P24	31	P24
	P24		P24
	G24		P24
	G24		CCC1
5	G24	35	CCC
	P24		CCO
	EMG1		FTS
	EMGE		221
	EMG3		222
10	88	40	P24
	88		P24
	88		CH3
	CHT		CH2
	80		HPOL
15	MAL4	45	CPOL
	HPS		DCX
	MAL3		DCZ
	G24		P24
	G24		P24
20	100	50	331
	RHPS		332
	HPS1		PCFE
	HPS2		PCRE
	THPS		P24
25	88	55	P24
	88		SPX
	P24		STX
	TL		MSSB
	SKPO		P24
30	SPDL	60	P24

[illegible]

LINE	A	B	C	D	E	F	G	H	I	J	LINE
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
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35											35

LINE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z																																																																																																																																																										
1	CONTROL BOX				CONTROL BOX				CONTROL BOX				CONTROL BOX																																																																																																																																																																							
2	TURNEY BASE				CHP CONVEYOR				FOOT SWITCH				SIDEWAY MOTOR & PSW																																																																																																																																																																							
3	XCON12				XCON14				XCON18				XCON18																																																																																																																																																																							
4	MS3101A20-18P				MS3101A20-15P				MS3102A146-6S				MS3102A18-10S																																																																																																																																																																							
5	MS3108B20-18P				MS3108B20-15S				MS3108B148-6P				MS3108B18-10P																																																																																																																																																																							
6	<table><tr><th>Pin NO.</th><th>Line NO.</th></tr><tr><td>A</td><td>SA</td></tr><tr><td>B</td><td>SB</td></tr><tr><td>C</td><td>SC</td></tr><tr><td>D</td><td>S</td></tr><tr><td>E</td><td>OB</td></tr><tr><td>F</td><td>PE</td></tr><tr><td>G</td><td>PE</td></tr></table>				Pin NO.	Line NO.	A	SA	B	SB	C	SC	D	S	E	OB	F	PE	G	PE	<table><tr><th>Pin NO.</th><th>Line NO.</th></tr><tr><td>A</td><td>U6</td></tr><tr><td>B</td><td>V6</td></tr><tr><td>C</td><td>W6</td></tr><tr><td>D</td><td>U61</td></tr><tr><td>E</td><td>V61</td></tr><tr><td>F</td><td>W61</td></tr><tr><td>G</td><td>PE</td></tr></table>				Pin NO.	Line NO.	A	U6	B	V6	C	W6	D	U61	E	V61	F	W61	G	PE	<table><tr><th>Pin NO.</th><th>Line NO.</th></tr><tr><td>A</td><td>BL</td></tr><tr><td>B</td><td>FTS</td></tr><tr><td>C</td><td>221</td></tr><tr><td>D</td><td>222</td></tr><tr><td>E</td><td></td></tr><tr><td>F</td><td>PE</td></tr></table>				Pin NO.	Line NO.	A	BL	B	FTS	C	221	D	222	E		F	PE	<table><tr><th>Pin NO.</th><th>Line NO.</th></tr><tr><td>A</td><td>7</td></tr><tr><td>B</td><td>OB</td></tr><tr><td>C</td><td>KAL4</td></tr><tr><td>D</td><td>PE</td></tr></table>				Pin NO.	Line NO.	A	7	B	OB	C	KAL4	D	PE																																																																																																												
Pin NO.	Line NO.																																																																																																																																																																																			
A	SA																																																																																																																																																																																			
B	SB																																																																																																																																																																																			
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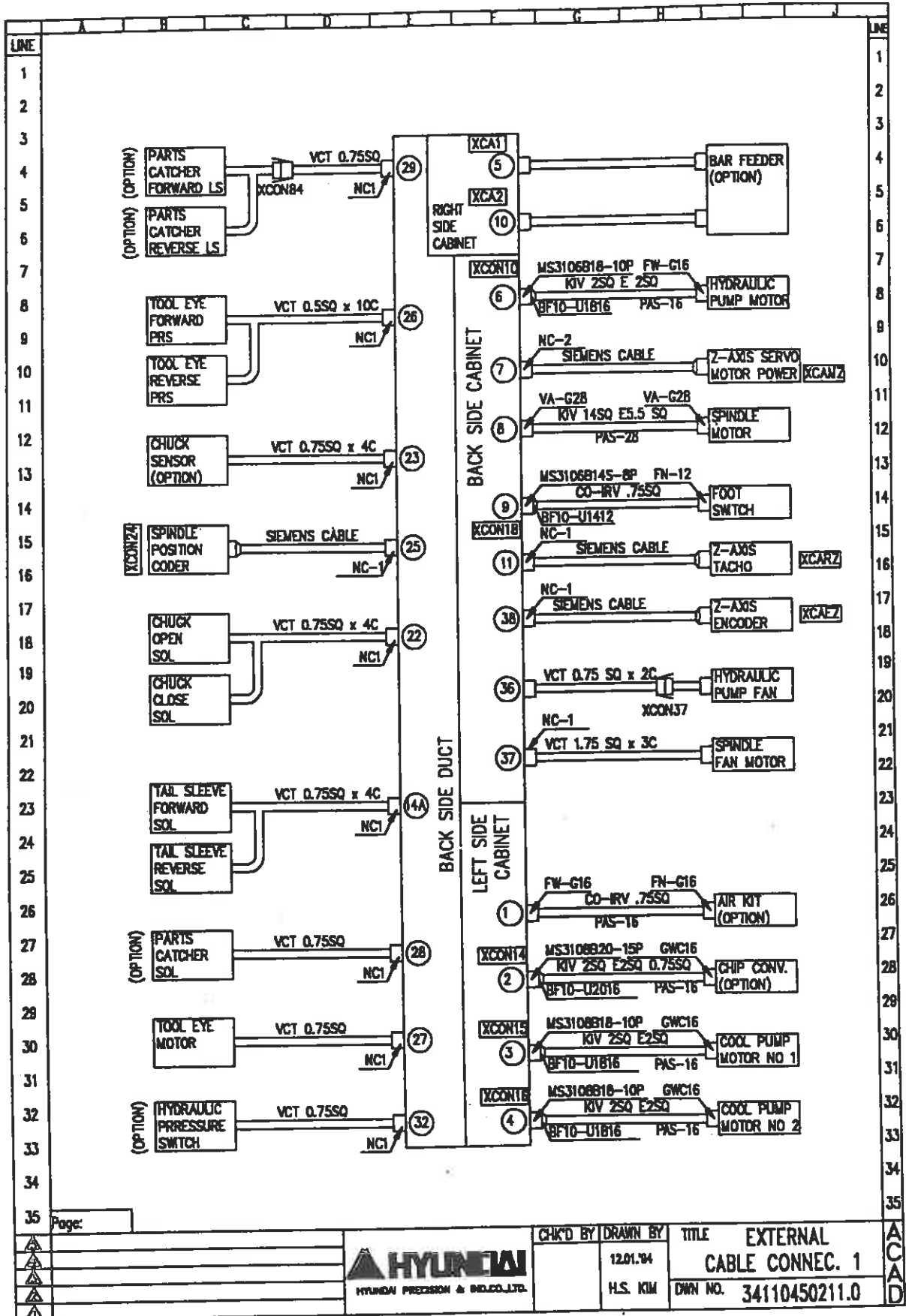
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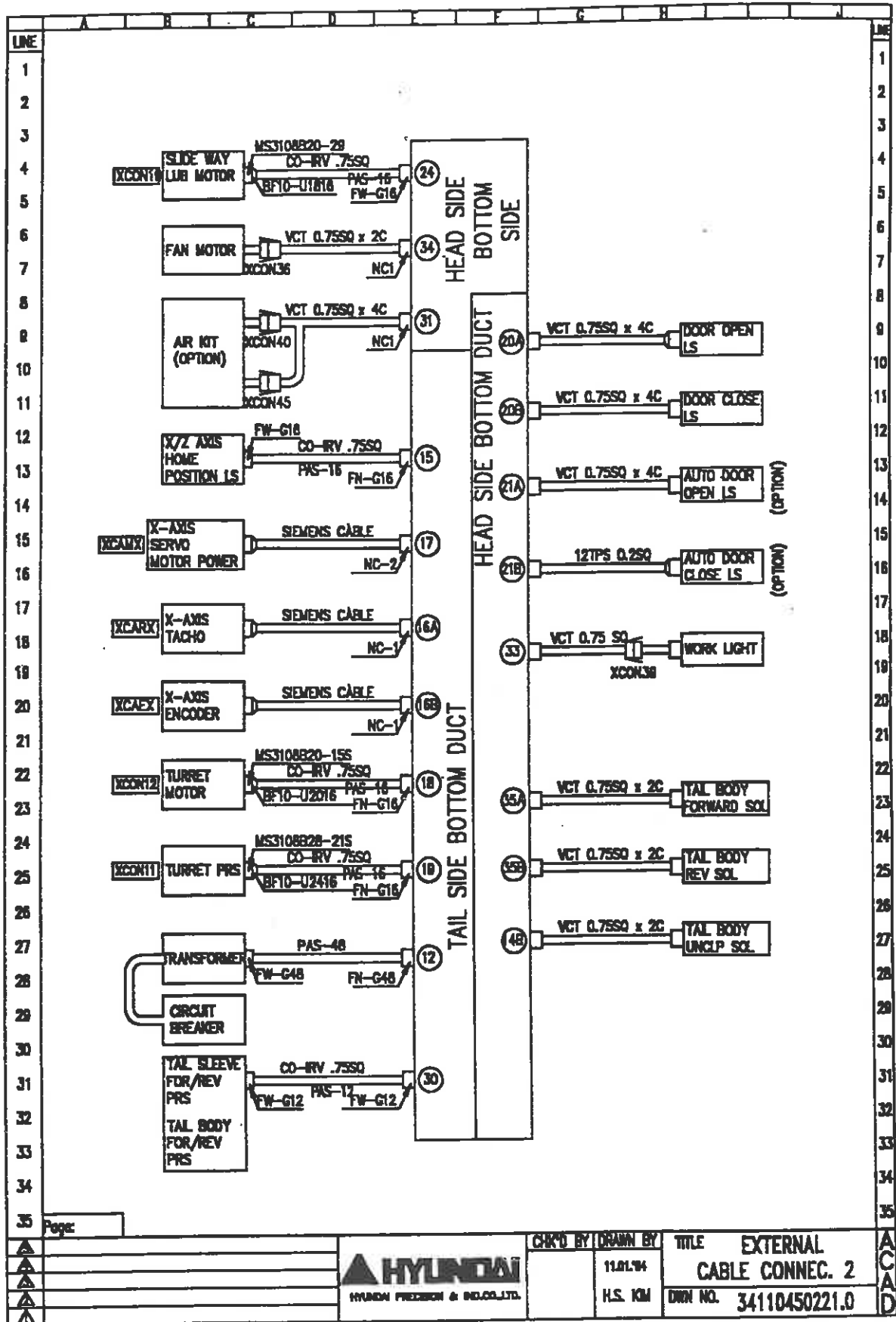
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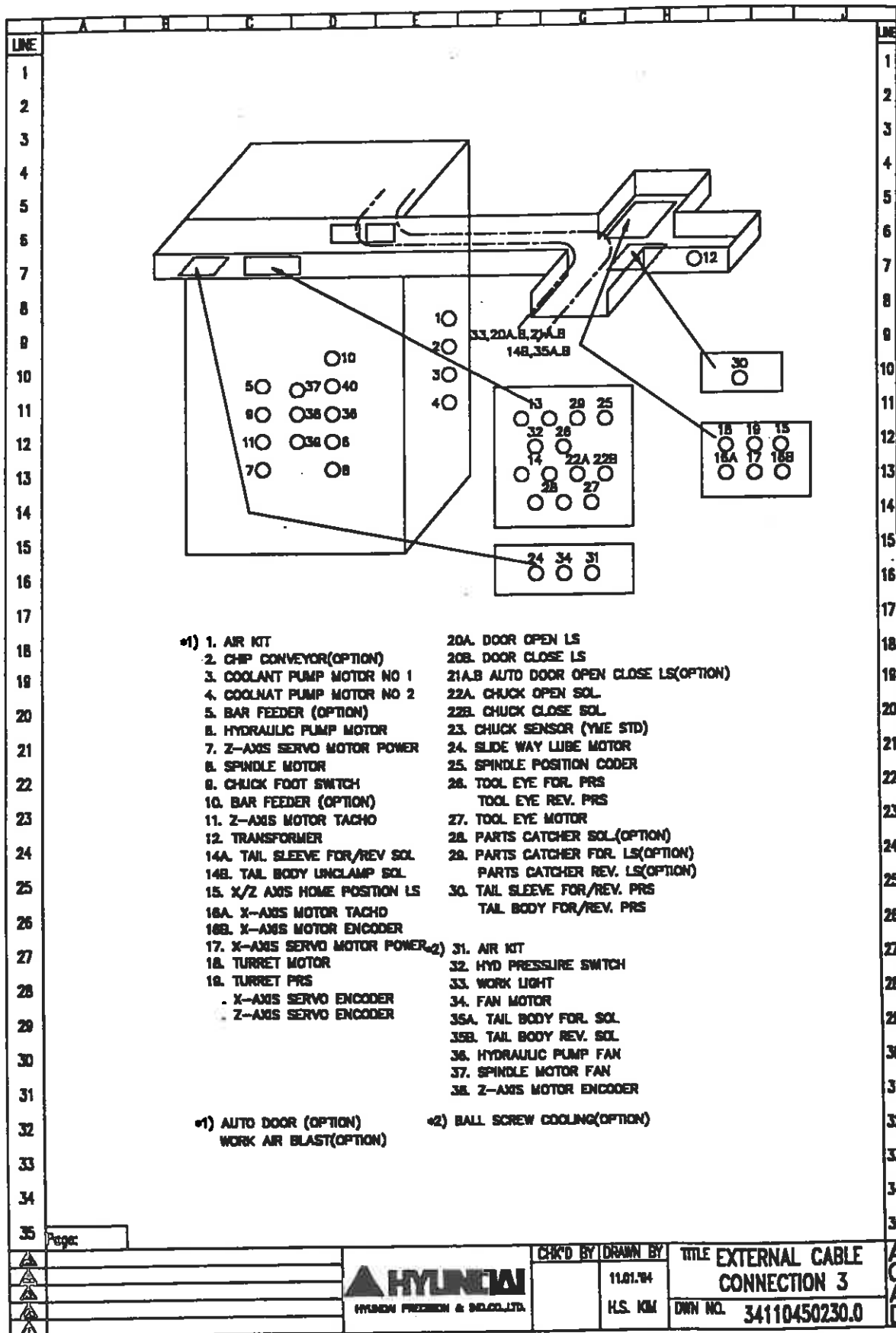
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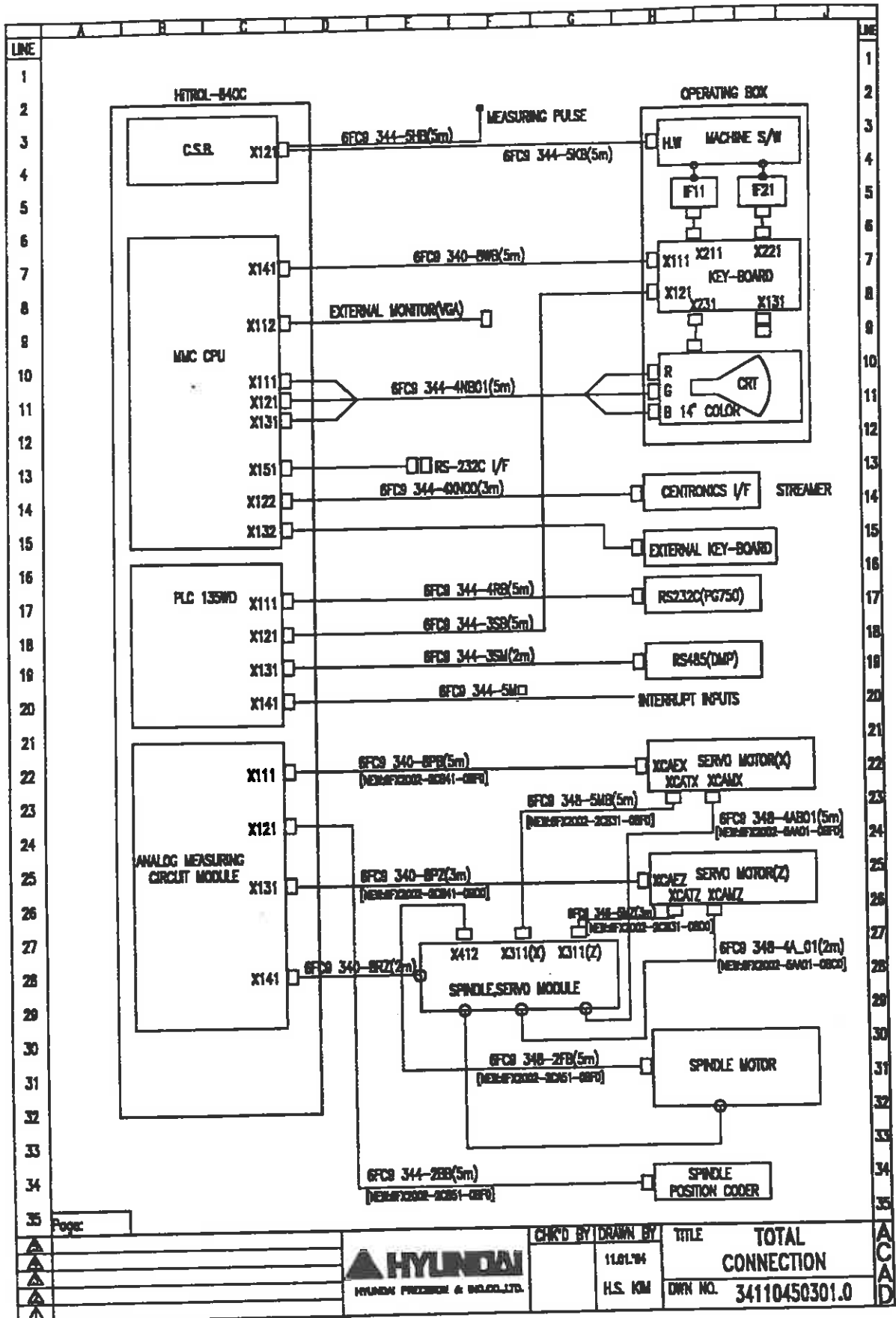
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HYUNDAI PRECISION & INSTRUMENTS CO., LTD.

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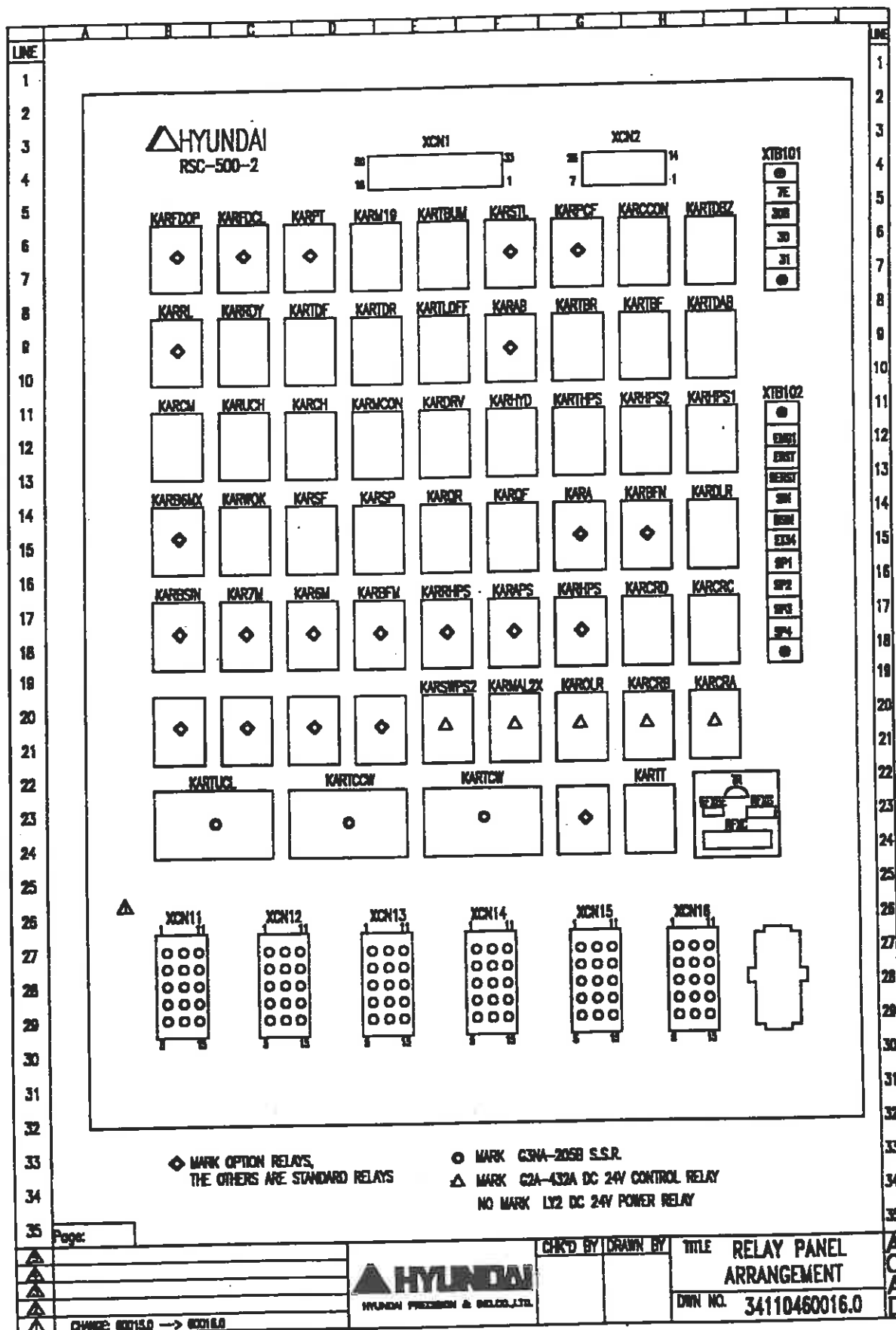
DRAWN BY: 11.01.74

H.S. KM

TITLE: **ELEMENTARY
DIAGRAM LIST**

DWN NO. **34110460000.0**

ACAD



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XCN1		18-30P																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
GN	GN	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON
		19	20	21	22	23	24	25	26	27	28	29	30	31	32				
		GN	GN	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON			
		33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
		GN	GN	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON	NOON

XCN2		18-30P						
		1	2	3	4	5	6	7
		GN	GN	NOON	NOON	NOON	NOON	NOON
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		NOON	NOON	NOON	NOON	NOON	NOON	
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		NOON	NOON	NOON	NOON	NOON	NOON	NOON

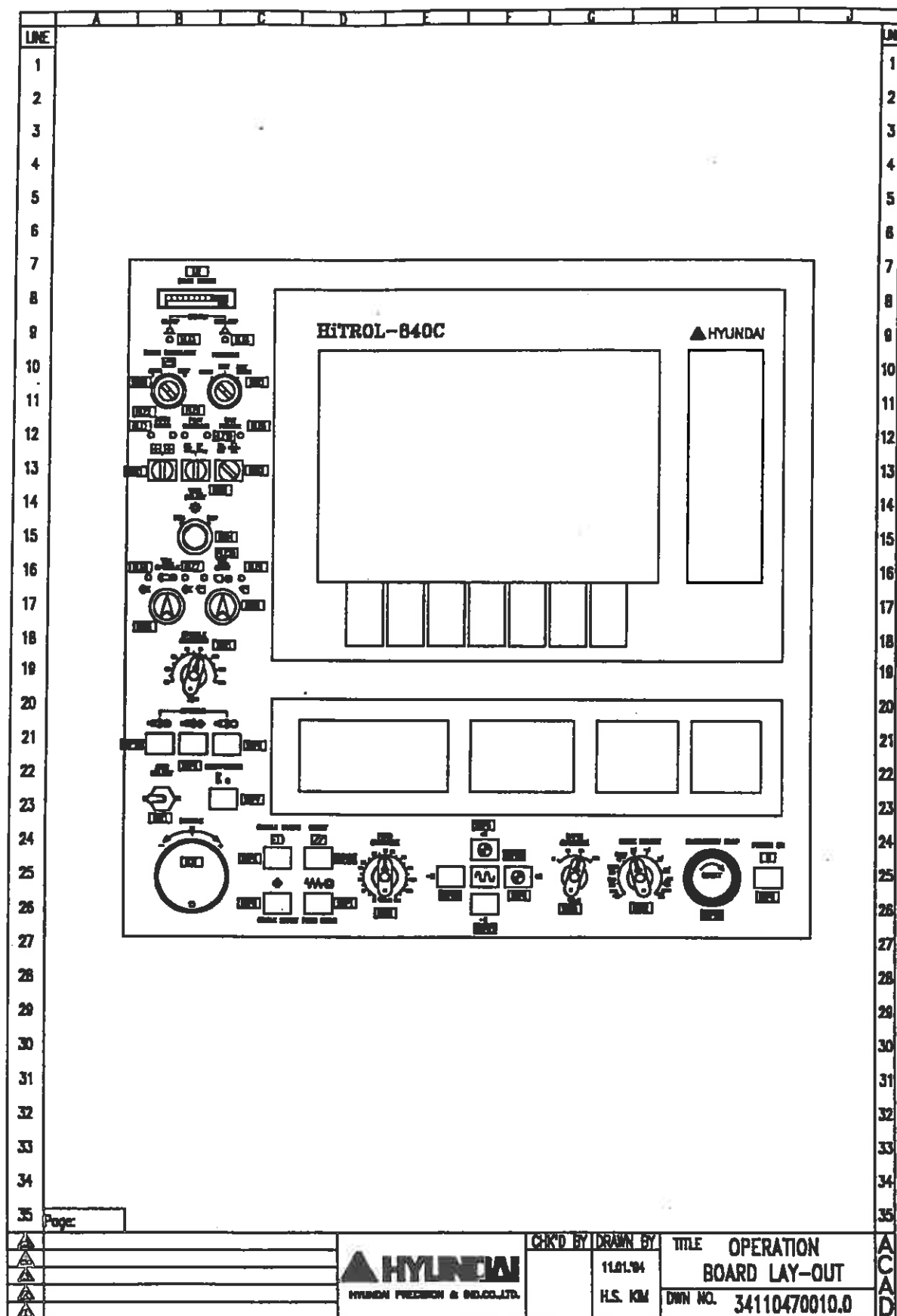
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2	7	12	2	7	12	2	7	12	2	7	12	2	7	12
GN	GN	NOON	GN	GN	NOON	GN	GN	NOON	GN	GN	NOON	GN	GN	NOON
3	8	13	3	8	13	3	8	13	3	8	13	3	8	13
GN	GN	NOON	GN	GN	NOON	GN	GN	NOON	GN	GN	NOON	GN	GN	NOON
4	9	14	4	9	14	4	9	14	4	9	14	4	9	14
GN	GN	NOON	GN	GN	NOON	GN	GN	NOON	GN	GN	NOON	GN	GN	NOON
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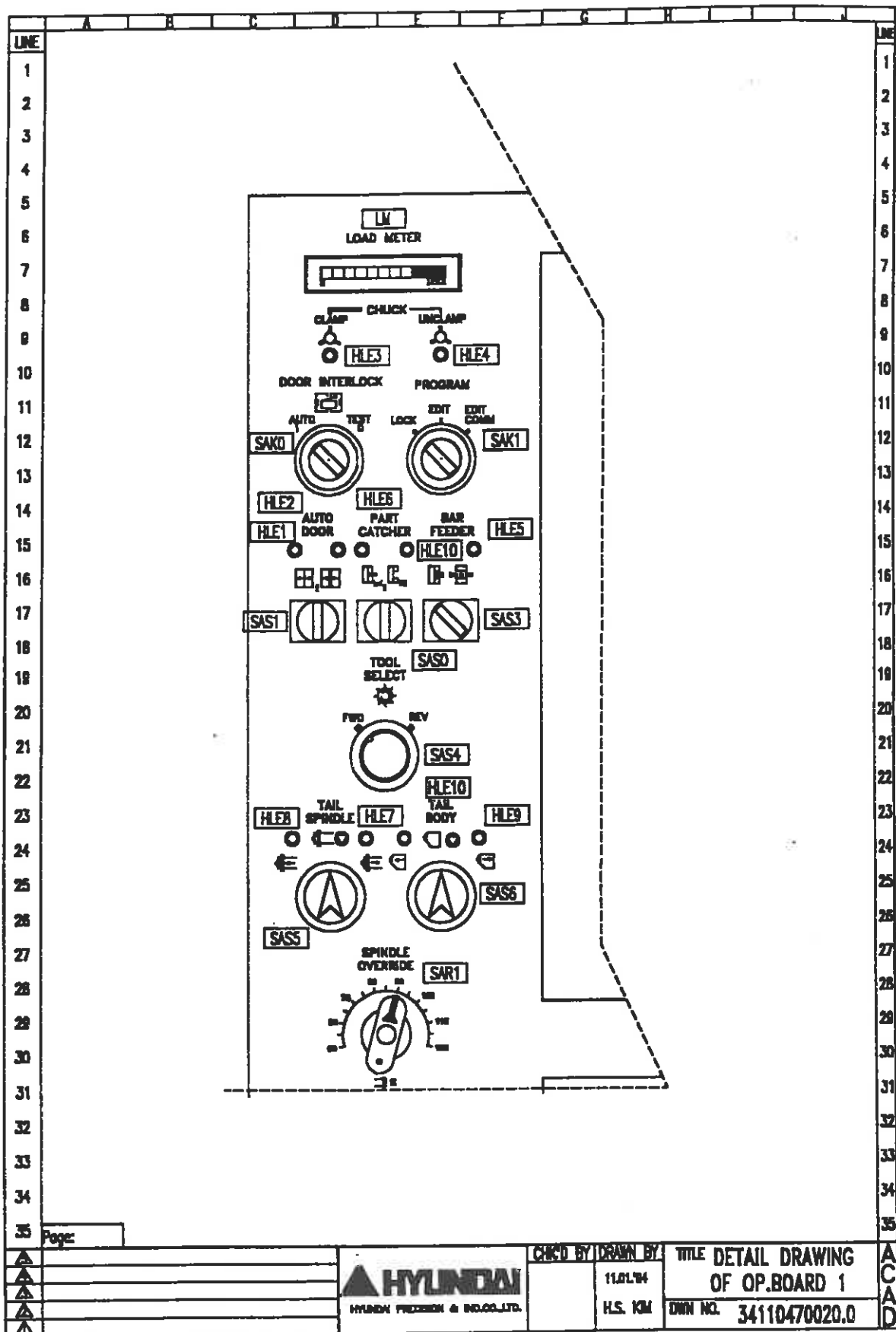
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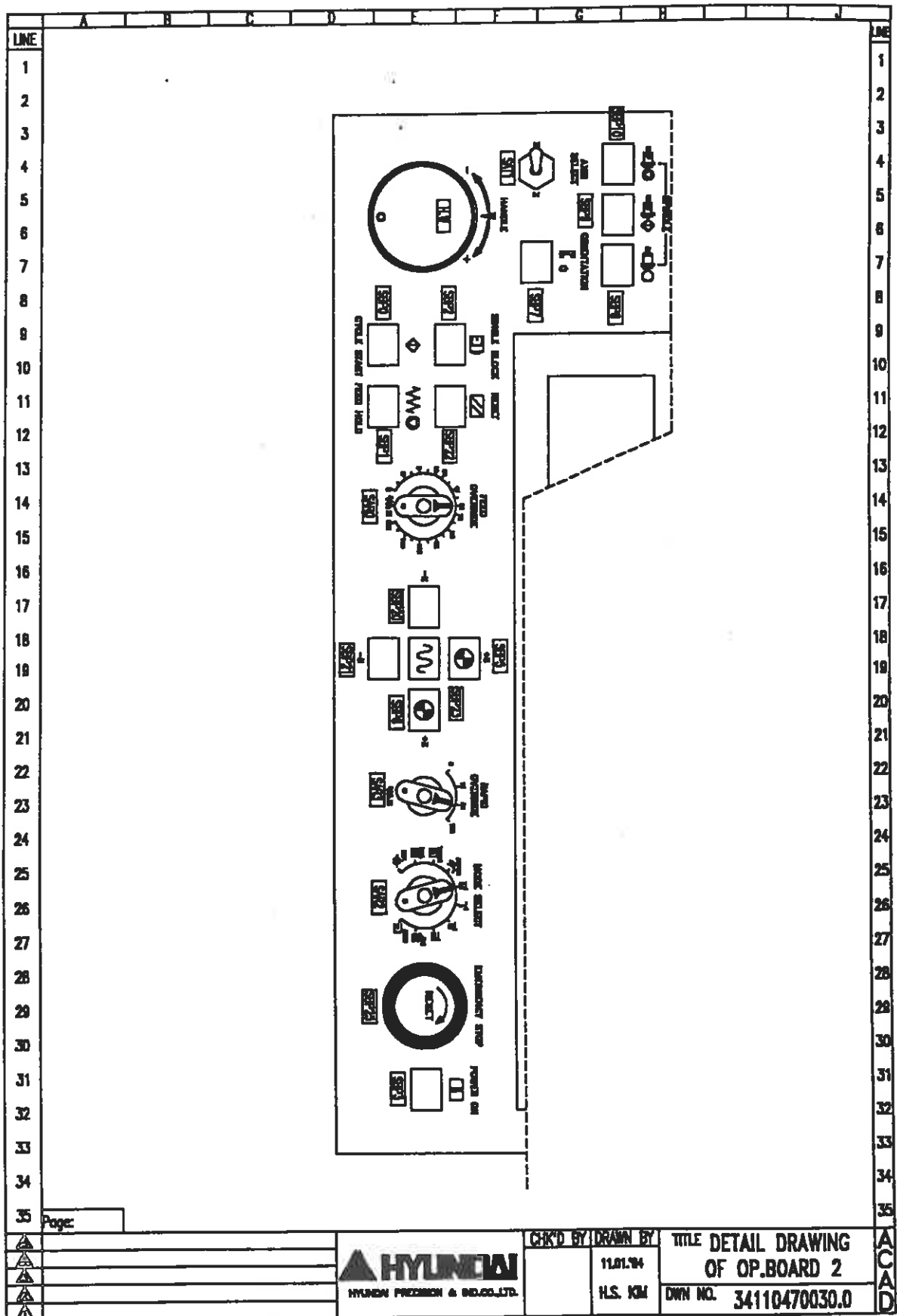
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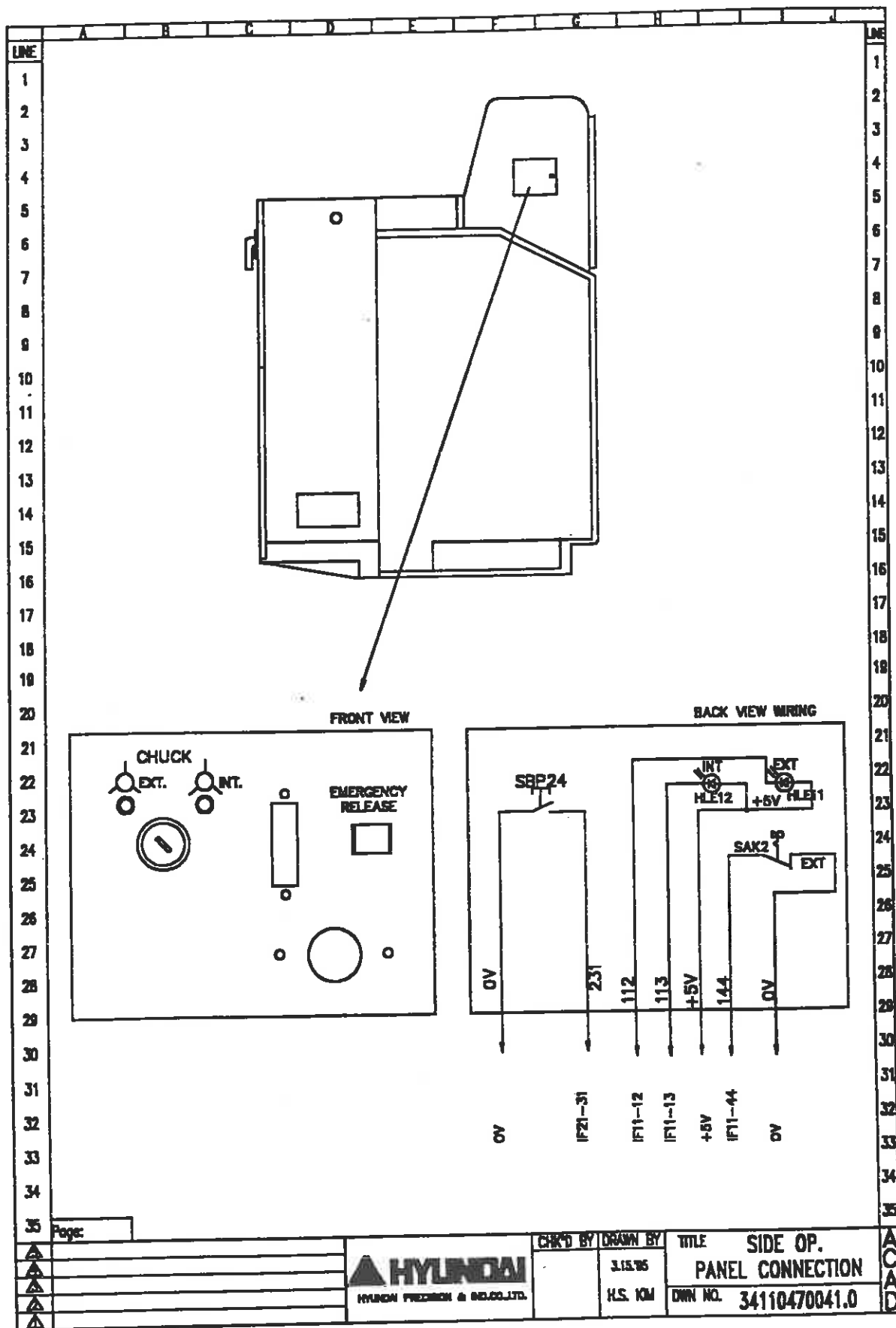
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PARTS LIST(OP. BOARD)-1

LINE	No.	SYMBOL	PARTS No.	PARTS NAME	SPECIFICATION	QTY	MAKER	REMARK	LINE
1	1	HL2A3-10	D21KY000210	LED	KL-06D3G(GREEN)	6	KEM		1
2	2	LM	D22ZZ000250	LOAD METER	TEM-65E	1	KUWANO		2
3	3	SBP0,3	D15FA002380	PUSH BUTTON SW.	AH165-TGFG11	2	FUJI		3
4	4	SBP1,10	D15FA002370	PUSH BUTTON SW.	AH165-TFR11	2	FUJI		4
5	5	SBP2,5,7,AA,20,21	D15FA002360	PUSH BUTTON SW.	AH165-TGFW11	8	FUJI		5
6	6	SBP22,23	D15FA002500	PUSH BUTTON SW.	AH165-TGFW11	2	FUJI		6
7	7	HL1,1,2,5,4	D21KY000210	LED	KL-06D3G(GREEN)	5	KEM	OPTION	7
8	8	SAT2,3	D17WA000130	TOGGLE SWITCH	WJT-3315M	2	WOO JIN	OPTION	8
9	9	SAT4	D17WA000280	TOGGLE SWITCH	WJT-2215	1	WOO JIN	OPTION	9
10	10	SAS4	D14FA000200	SELECT P/B SW.	AH25-S2B22	1	FUJI		10
11	11	SAS5 SAS6	D13FA000301	SELECT SWITCH	AH25-P3B11	2	FUJI		11
12	12	SAK0	D26FA000510	KEY SELECT SW.	AH22-J2A11A	1	FUJI		12
13	13	SAK1	D26FA000520	KEY SELECT SW.	AH22-J3A11A	1	FUJI		13
14	14	SAR0	D18FA003100	ROTARY SWITCH	AC09-GZ(13.85°)	1	FUJI		14
15	15	SAR1	D18FA003110	ROTARY SWITCH	AC09-GY(15°)	1	FUJI		15
16	16	SAR2	D18FA003120	ROTARY SWITCH	AC09-GX(30°)	1	FUJI		16
17	17	SAR3	D18ZZ000750	ROTARY SWITCH	KR111AA	1	KEM		17
18	18	SAT1	D17WA000280	TOGGLE SWITCH	WJT-2215	1	WOO JIN		18
19	19	SBP25	D15YS000040	PUSH-LOCK SWITCH	YSSEP334-11RD	1	YONG SUNG		19
20	20	H.W	D72SK002010	HANDWHEEL	6FC9320-5DC	1	SIEMENS	CNC PARTS	20
21	21		034160H1091	PANEL(OP.BOARD)	HIT-18S	1			21
22	22	IF11,21	D53WM000010	I/F UNIT	RS-F64/GSED	2	WEDMULLER		22
23	23			RAIL(AL)	35mm	0.4m			23
24	24	SAR		KNOB(FOR ROTARY S/W)	RANTR60A	4	FUJITSU		24
25	25	HL24,25	D21KY000240	LED	KL-06D3Y(YELLOW)	2	KEM		25
26	26	HL21-30	D21KY000210	LED	KL-06D3G(GREEN)	8	KEM		26
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CHKD BY	DRAWN BY	TITLE
	DELIN'94	PARTS LIST 1 (OP. BOARD)
	H.S. KIM	DWN NO. 34110470051.0

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LINE	INDEX NO.	SYMBOL	PARTS No.	PARTS NAME	SPECIFICATION	UNITS	QTY	CERTIFICATE No.	REMARK
1	1	HE114E12	DE11000000	LED	KL-08030	PCS	2		
2	2	SNZ	DE57000270	KEY SELECT SWITCH	AK23-J2B11A	FLU	1		
3	3	SEP24	0157A00200	PUSH BUTTON SWITCH	AK105-107Y11	FLU	1		
4	4		3341001100	PANEL(SIDE OP.)	HT-15/185		1		

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 **HYUNDAI**
HYUNDAI PRECISION & IND.CO.,LTD.

CHKD BY:
DRAWN BY:
3.15.95
H.S. KIM

TITLE PARTS LIST 1
(SIDE OP.PANEL)
OWN NO. 34110470061.0

