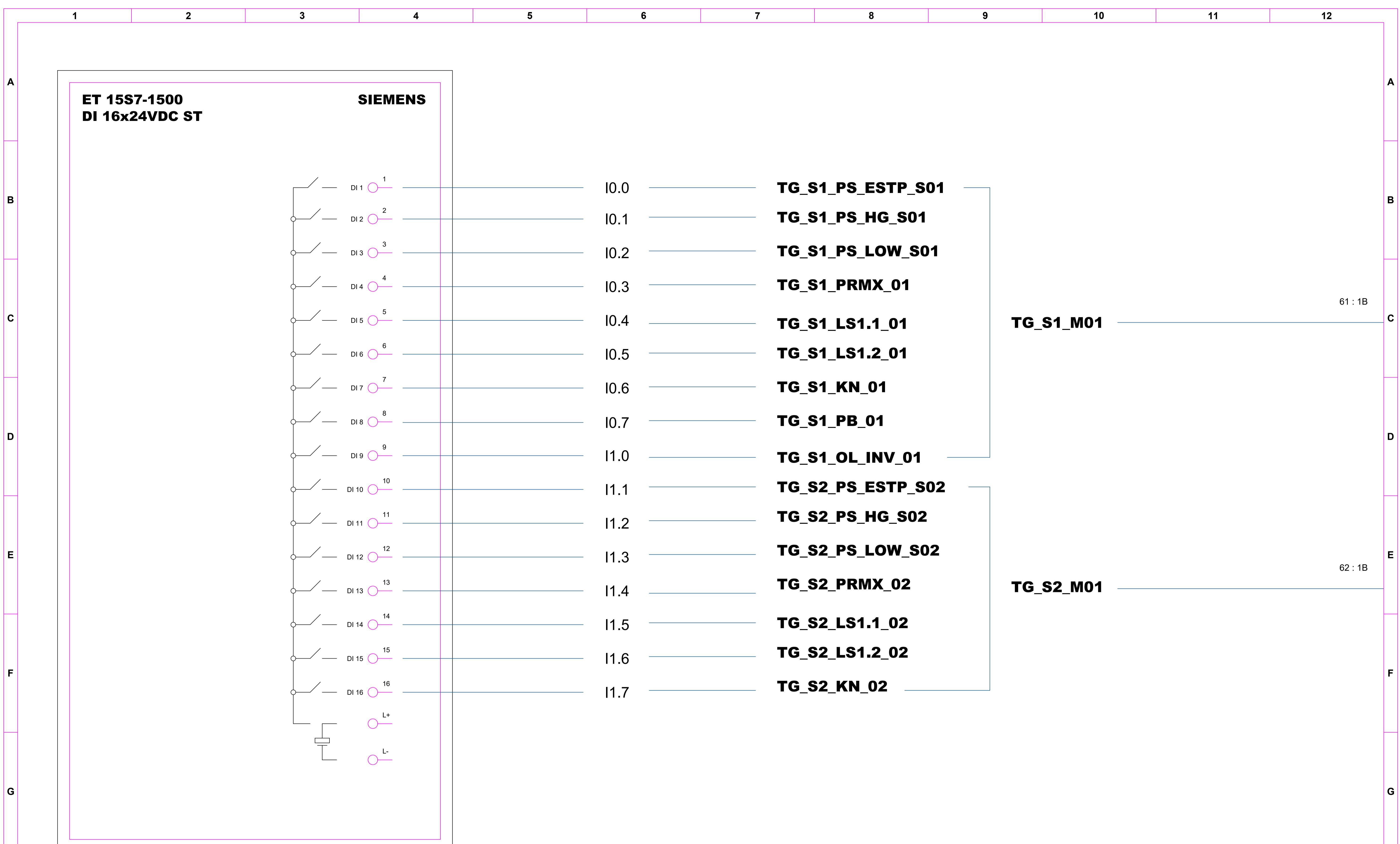
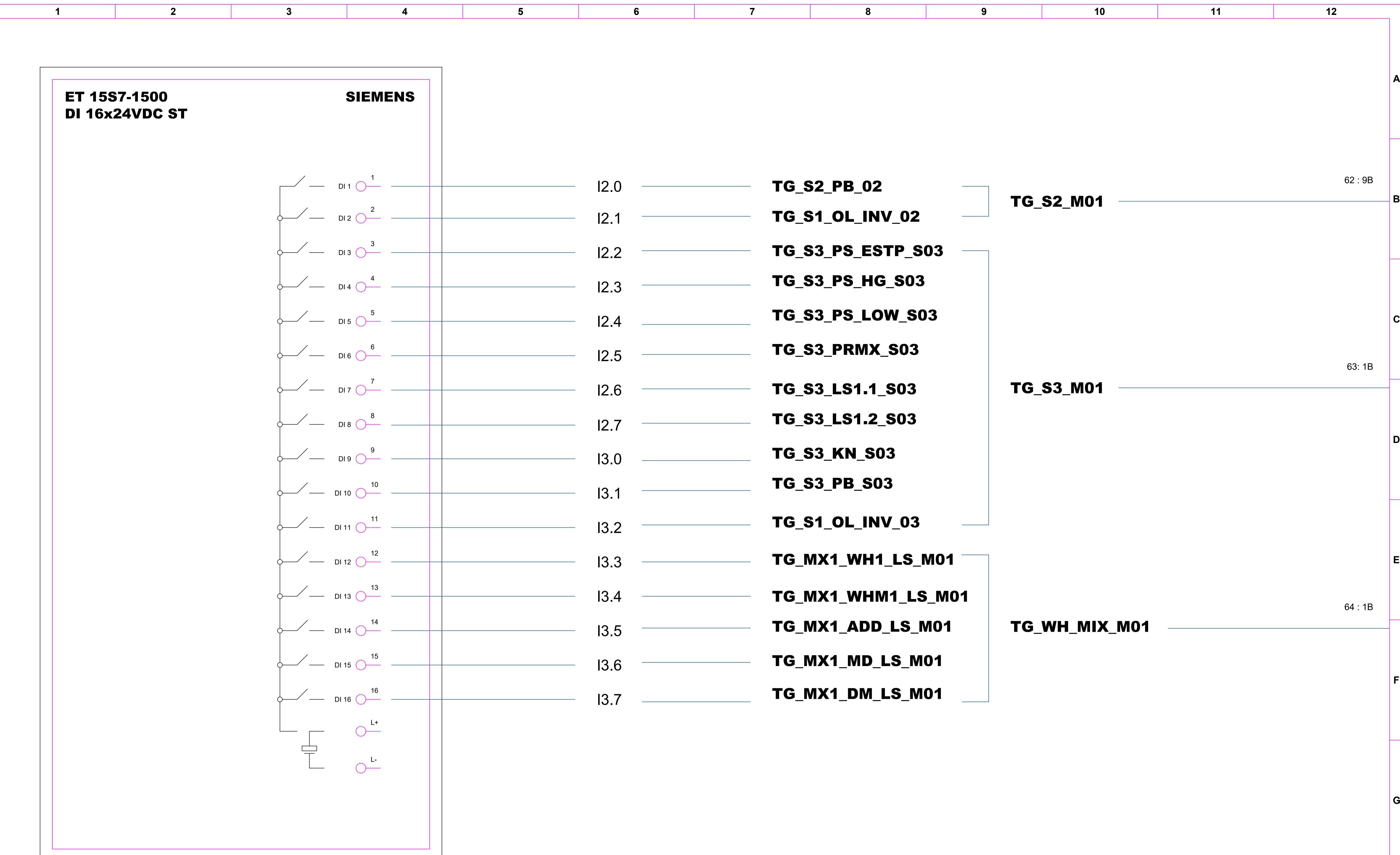


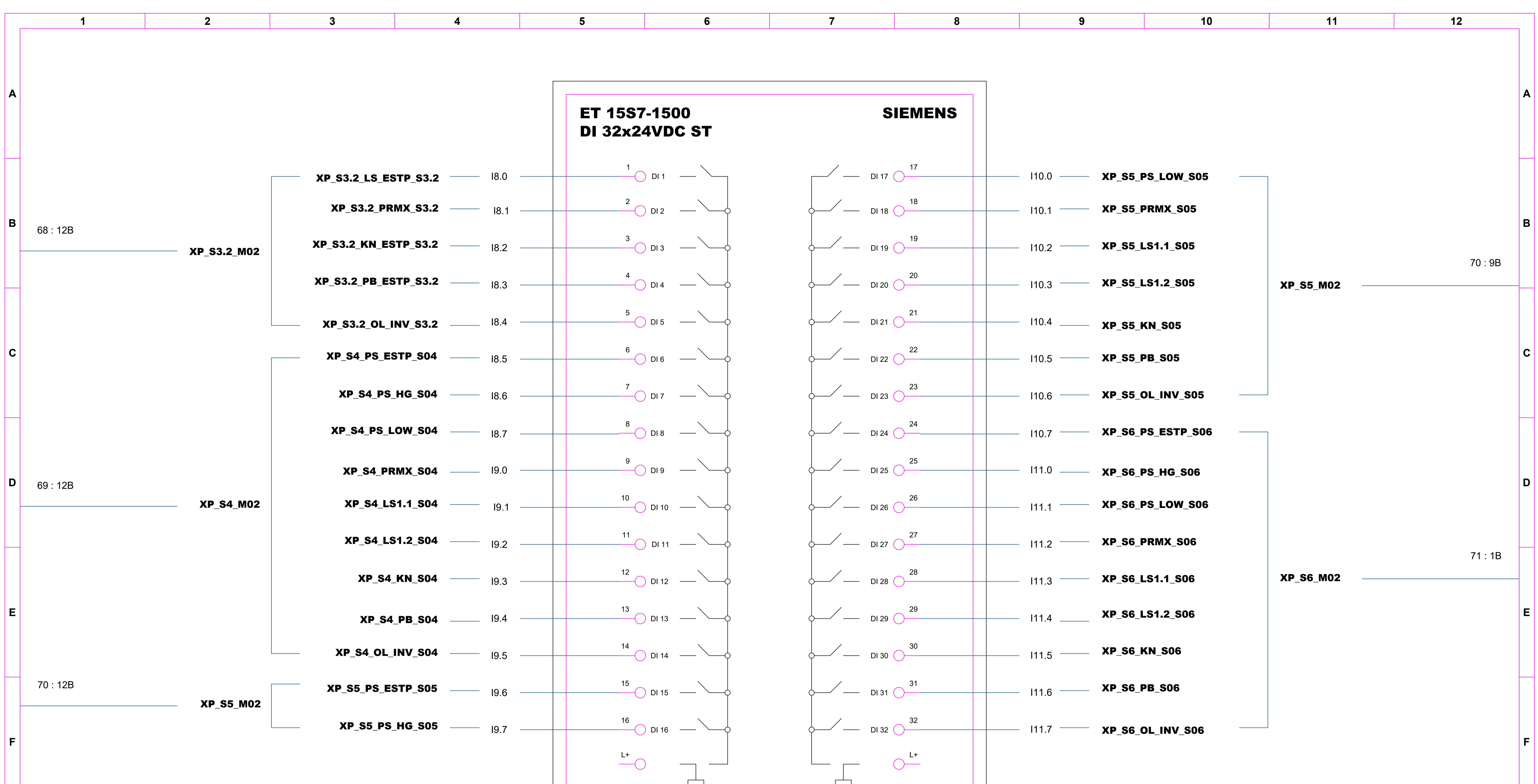
1 2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr.	SAINT-GOBAIN	Title Digital Input 1	Project Address Tile Grouting		H
	4	21-05-2025		Drawn RAFLI						+	
				Norm						Sheet No.43	
						WAMGROUP				122 Sheet	

2 3 4 5 6 7 8 9 10 11 12





H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title Digital Input 1 Pro-X Batching Wiring Control Panel	Project WAMGROUP® + Sheet No.46 122 Sheet	H
4	21-05-2025			Drawn	RAFLI				
				Appr.					
				Norm					

1 2 3 4 5 6 7 8 9 10 11 12

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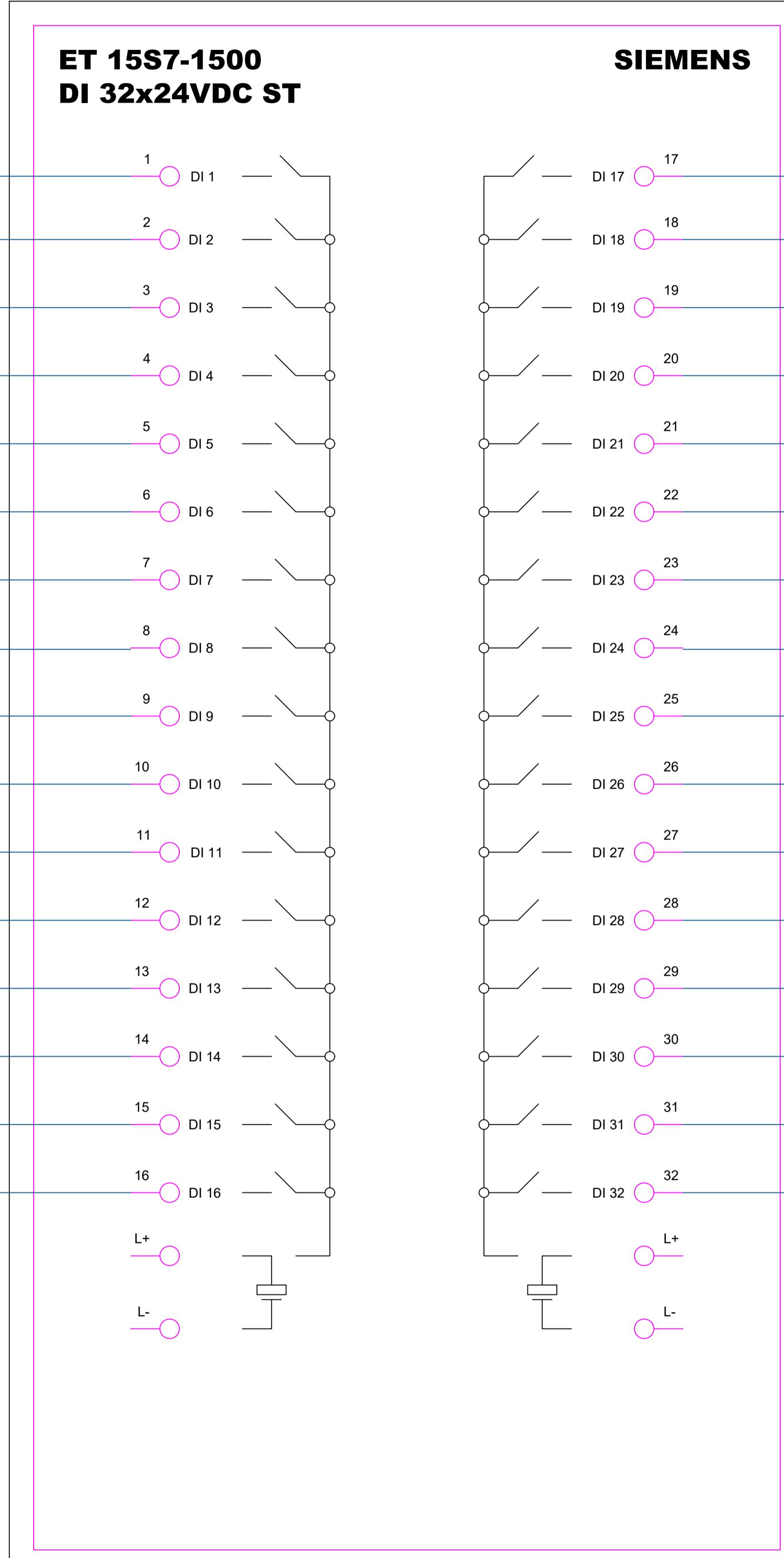
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**XP_JB01_M02****XP_JB02_M02****XP_WH_MIX_M02**

Wiring Control Panel



Title

Digital Input 2

Project

Pro-X Batching

 +

Sheet No.47

122 Sheet

Rev.	Date	Remarks	Date	17-10-2024	Drawn	RAFLI
4	21-05-2025					

P.T. CIPTA MORTAR UTAMA

Appr.

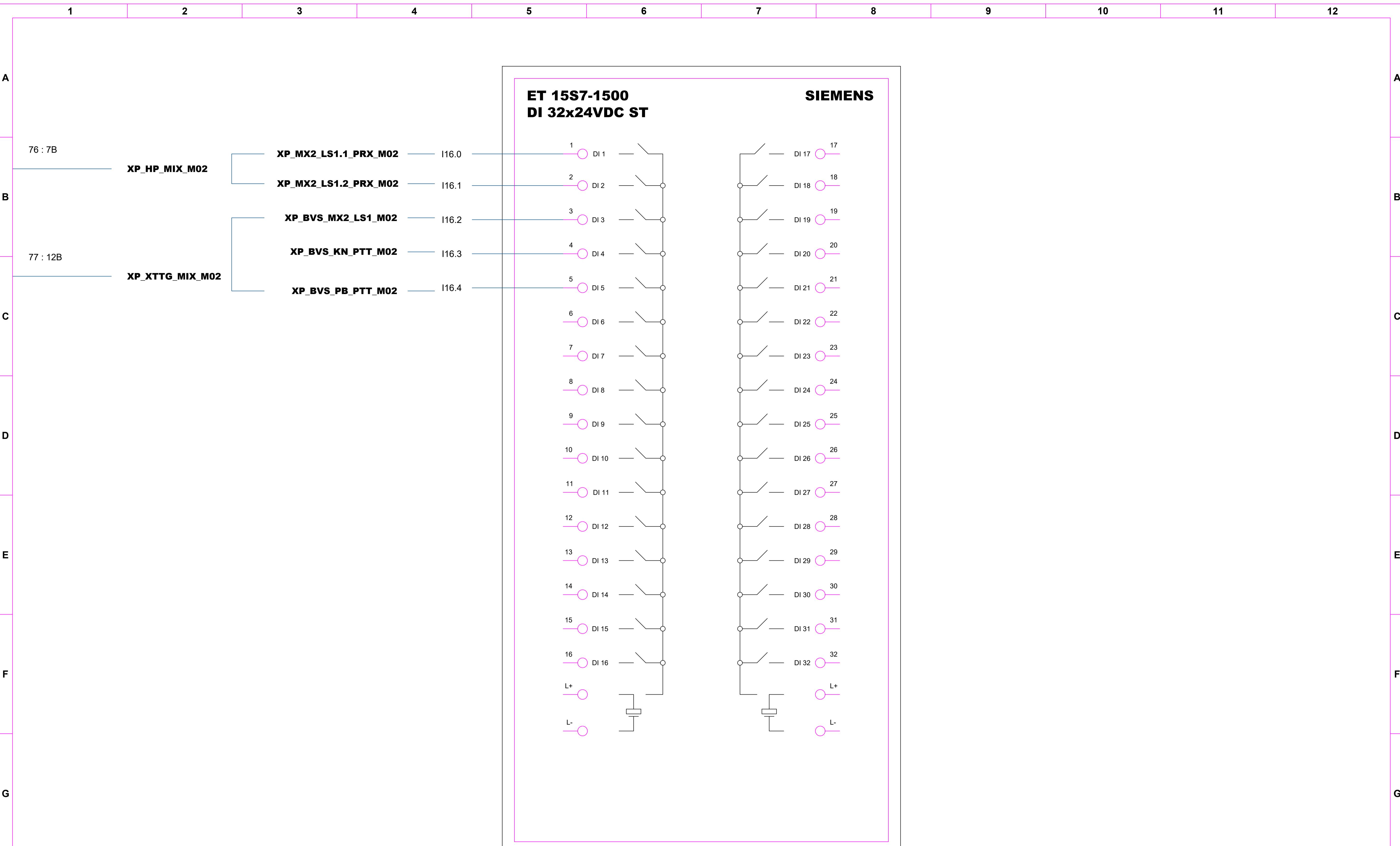
Norm

Wiring Control Panel

74 : 8B

75 : 1B

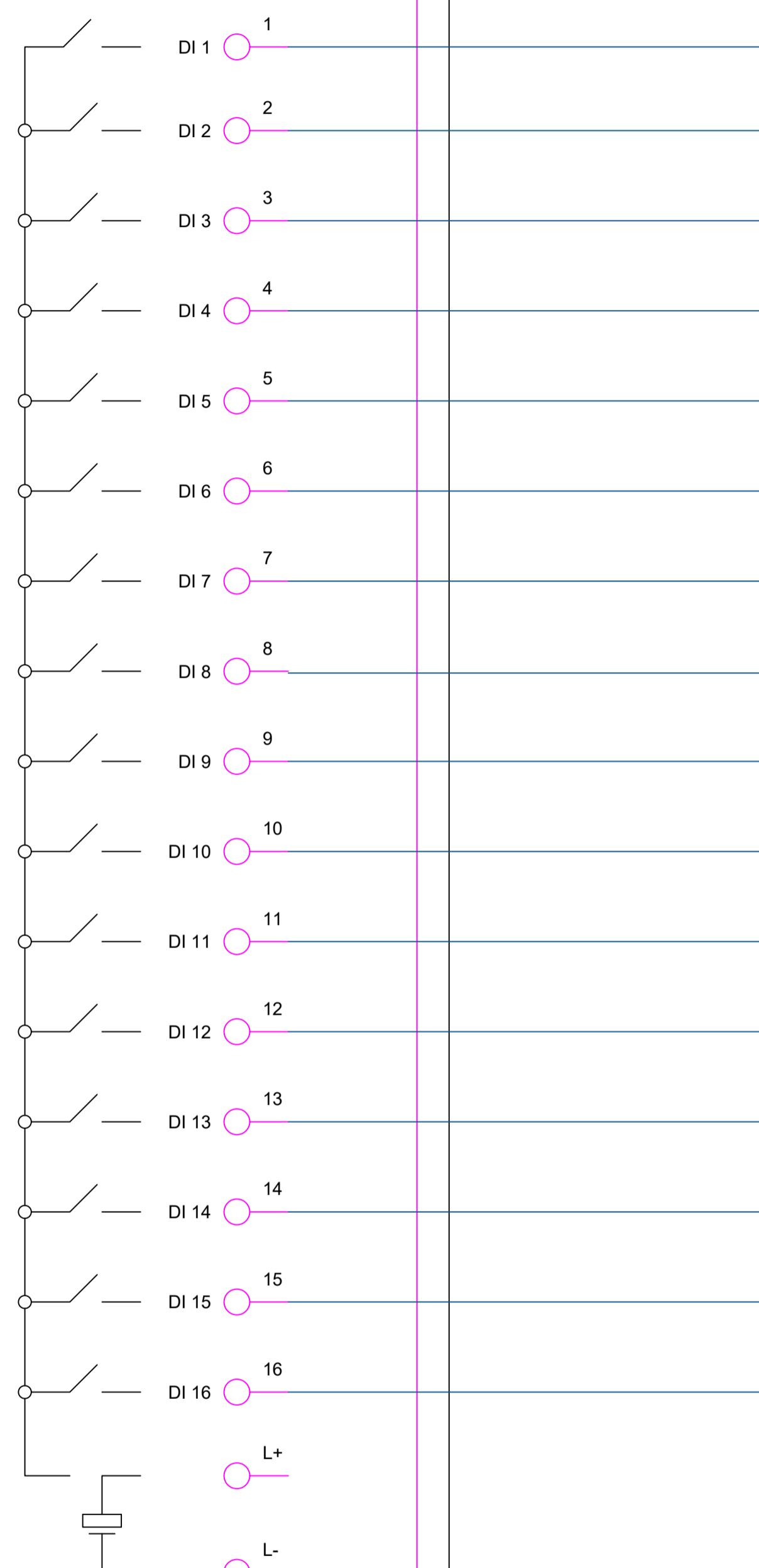
76 : 1B



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	Project		
	4	21-05-2025			Drawn	RAFLI					
					Appr.						
				Norm		Wiring Control Panel				+ Sheet No.48	122 Sheet

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SIEMENS

**ET 15S7-1500
DI 16x24VDC ST**

I20.0	NS_S7_PS_ESTP_S07
I20.1	NS_S7_PS_HG_S07
I20.2	NS_S7_PS_LOW_S07
I20.3	NS_S7_PRMX_S07
I20.4	NS_S7_LS1.1_S07
I20.5	NS_S7_LS1.2_S07
I20.6	NS_S7_KN_S07
I20.7	NS_S7_PB_S07
I21.0	NS_S7_OL_INV_S07
I21.1	NS_S8_PS_ESTP_S08
I21.2	NS_S8_PS_HG_S08
I21.3	NS_S8_PS_LOW_S08
I21.4	NS_S8_PRMX_S08
I21.5	NS_S8_LS1.1_S08
I21.6	NS_S8_LS1.2_S08
I21.7	NS_S8_KN_S08

NS_S07_M03

78 : 1B

NS_S08_M03

79 : 1B

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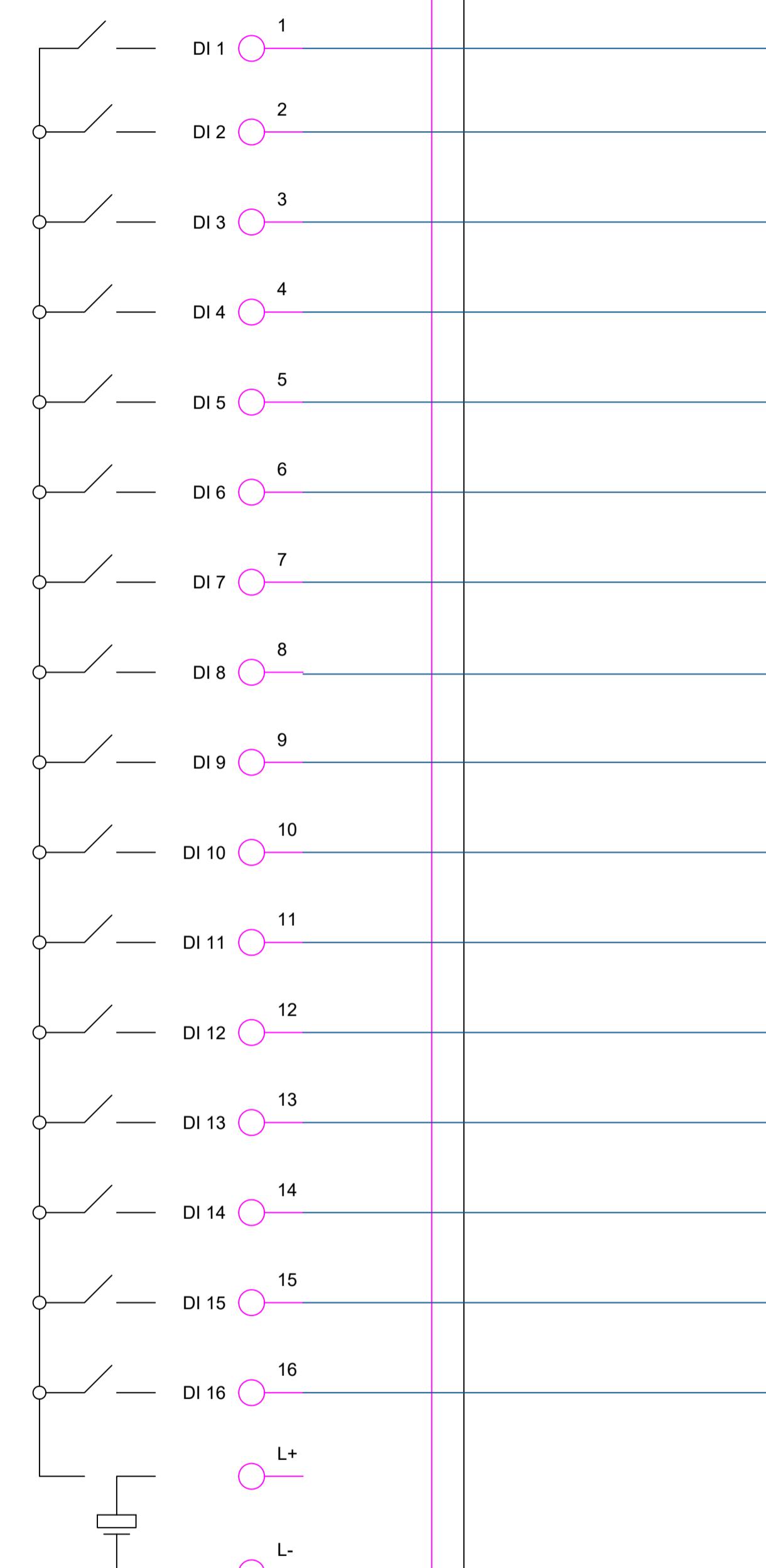
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Digital Input 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm		Wiring Control Panel				+ Sheet No.49 122 Sheet

1 2 3 4 5 6 7 8 9 10 11 12

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**ET 15S7-1500
DI 16x24VDC ST**

SIEMENS



- | | |
|-------|---------------------------|
| I22.0 | NS_S8_PB_S08 |
| I22.1 | NS_S7_OL_INV_S08 |
| I22.2 | NS_S9_PS_ESTP_S09 |
| I22.3 | NS_S9_PS_HG_S09 |
| I22.4 | NS_S9_PS_LOW_S09 |
| I22.5 | NS_S9_PRMX_S09 |
| I22.6 | NS_S9_LS1.1_S09 |
| I22.7 | NS_S9_LS1.2_S09 |
| I23.0 | NS_S9_KN_S09 |
| I23.1 | NS_S9_PB_S09 |
| I23.2 | NS_S7_OL_INV_S09 |
| I23.3 | NS_S10_PS_ESTP_S10 |
| I23.4 | NS_S10_PS_HG_S10 |
| I23.5 | NS_S10_PS_LOW_S10 |
| I23.6 | NS_S10_PRMX_S10 |
| I23.7 | NS_S10_LS1.1_S10 |

NS_S08_M03

79 : 9B

NS_S09_M03

80 : 1B

NS_S10_M03

81 : 1B

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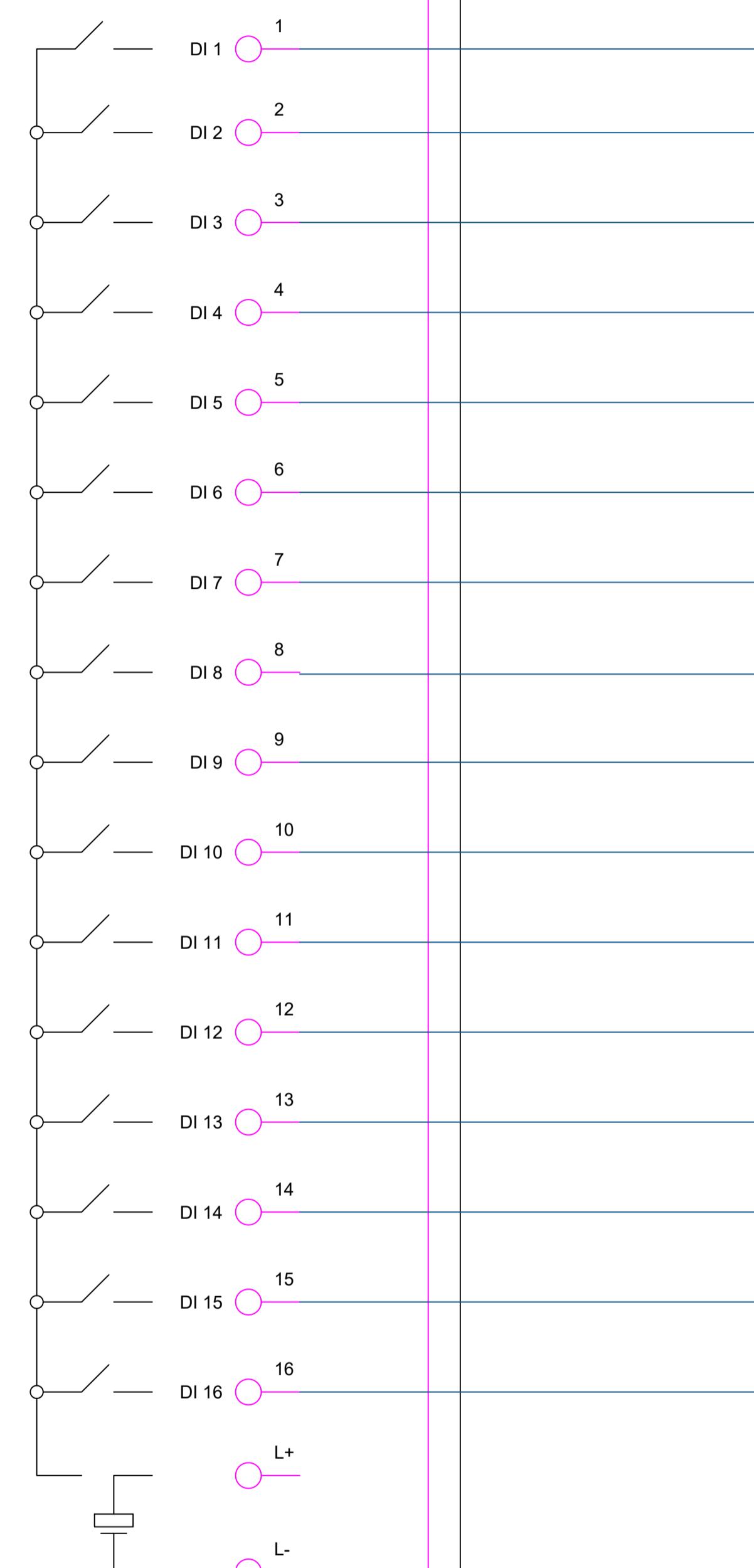
F

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	WAMGROUP	Title Digital Input 2	Project Non Sanded Batching	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.50
				Norm		Wiring Control Panel				122 Sheet

1 2 3 4 5 6 7 8 9 10 11 12

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**ET 15S7-1500
DI 16x24VDC ST****SIEMENS**

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I24.0 _____ **NS_S10_LS1.2_S10**I24.1 _____ **NS_S10_KN_S10**I24.2 _____ **NS_S10_PB_S10**I24.3 _____ **NS_S7_OL_INV_S10**I24.4 _____ **NS_MX3_WH3_LS_M03**I24.5 _____ **NS_MX3_WHM3_LS_M03**I24.6 _____ **NS_MX3_ADD_LS_M03**I24.7 _____ **NS_MX3_MD_LS_M03**I25.0 _____ **NS_MX3_DM_LS_M03**I25.1 _____ **NS_MX3_MH_LS_M03**I25.2 _____ **NS_MX3_ESTP_PB_M03**I25.3 _____ **NS_MX3_OD_PRX_M03**I25.4 _____ **NS_MX3_CD_PRX_M03**I25.5 _____ **NS_MX3_SP_PB_M03**I25.6 _____ **NS_MX3_CA_PB_M03**I25.7 _____ **NS_MX3_OC1_KC_M03****NS_S10_M03**

81 : 7B

NS_WH_MIX_M03

82 : 1B

NS_MIX_M03

83 : 1B

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Rev.	Date	Remarks	Date	Drawn	Appr.	P.T. CIPTA MORTAR UTAMA	Title	Project	
4	21-05-2025			RAFLI			Digital Input 3	Non Sanded Batching	+
									Sheet No.51
									122 Sheet

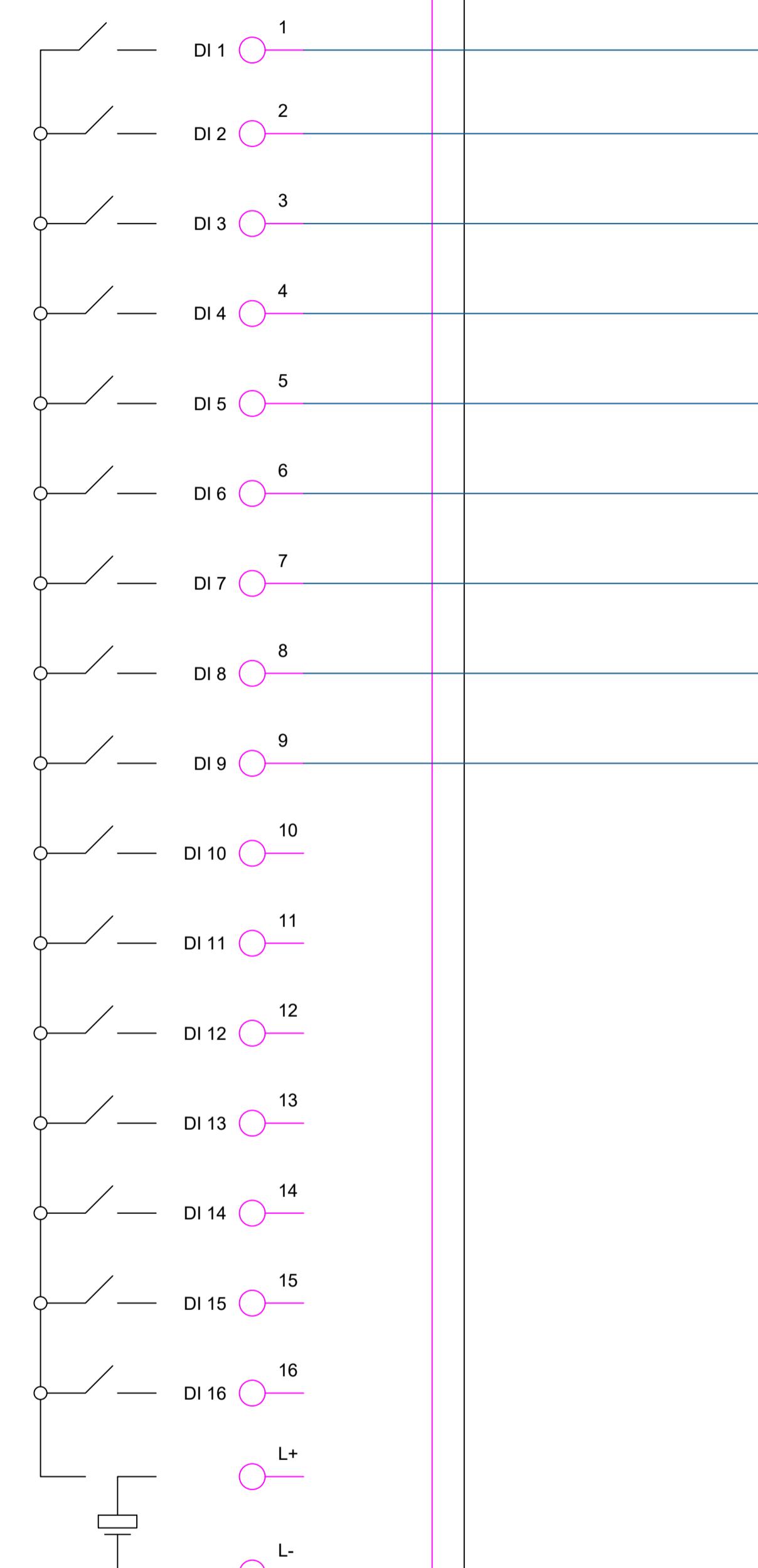


1 2 3 4 5 6 7 8 9 10 11 12

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**ET 15S7-1500
DI 16x24VDC ST**

SIEMENS



I26.0 I26.1 I26.2 I26.3 I26.4 I26.5 I26.6 I26.7 I27.0

**NS_MX3_OC2_KC_M03
NS_MX3_OC3_KC_M03
NS_MX3_DM_KN_M03
NS_MX3_RM_PB_M03
NS_MX3_OI_INV_M03
NS_MX3_SHHP_PS_M03
NS_MX3_SLHP_PS_M03
NS_MX3_BVUP1.1_PS_M03
NS_MX3_SBVUP1.2_PS_M03**

NS_MIX_M03

NS_HP_MIX_M03

83 : 8B

85 : 1B

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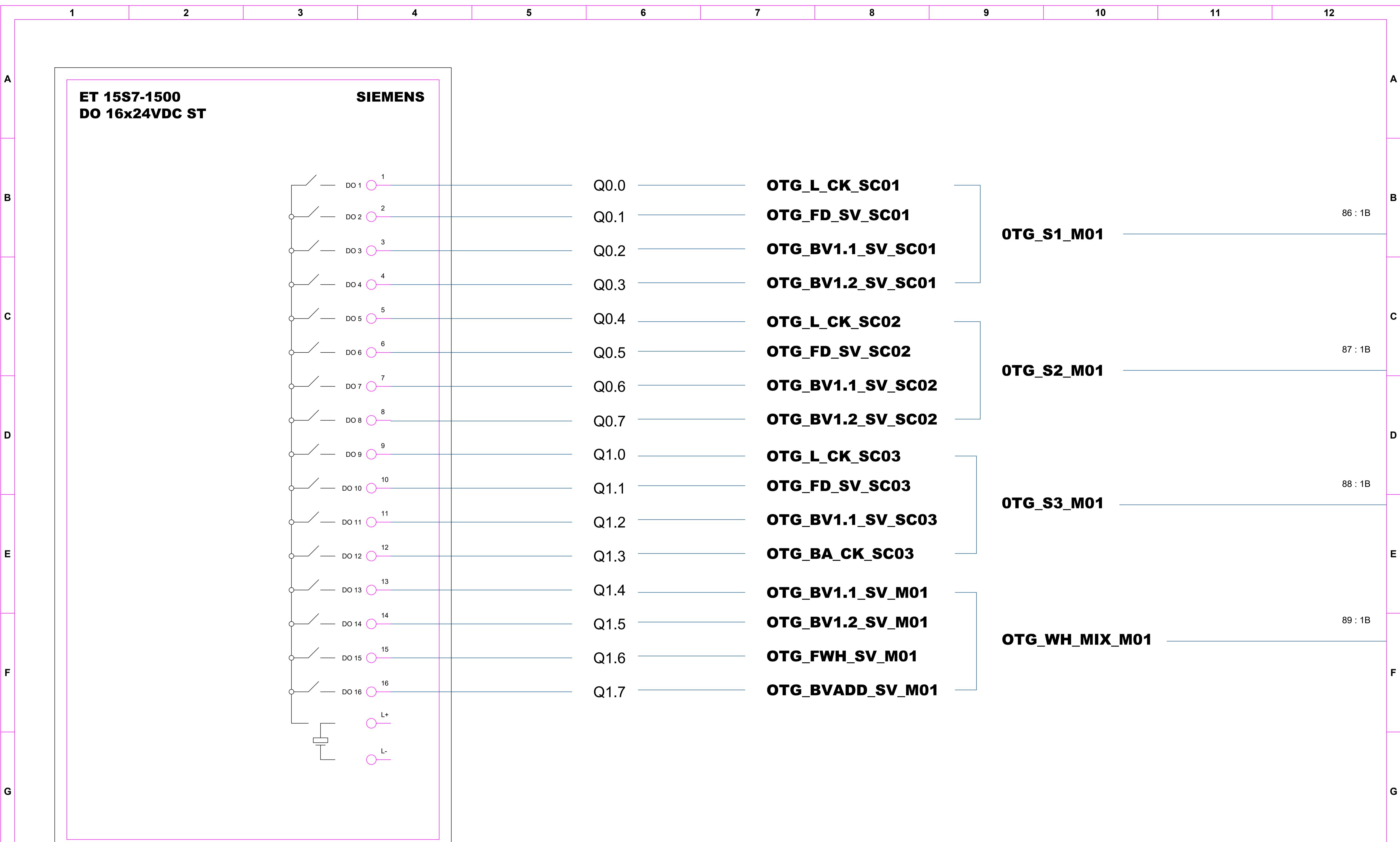
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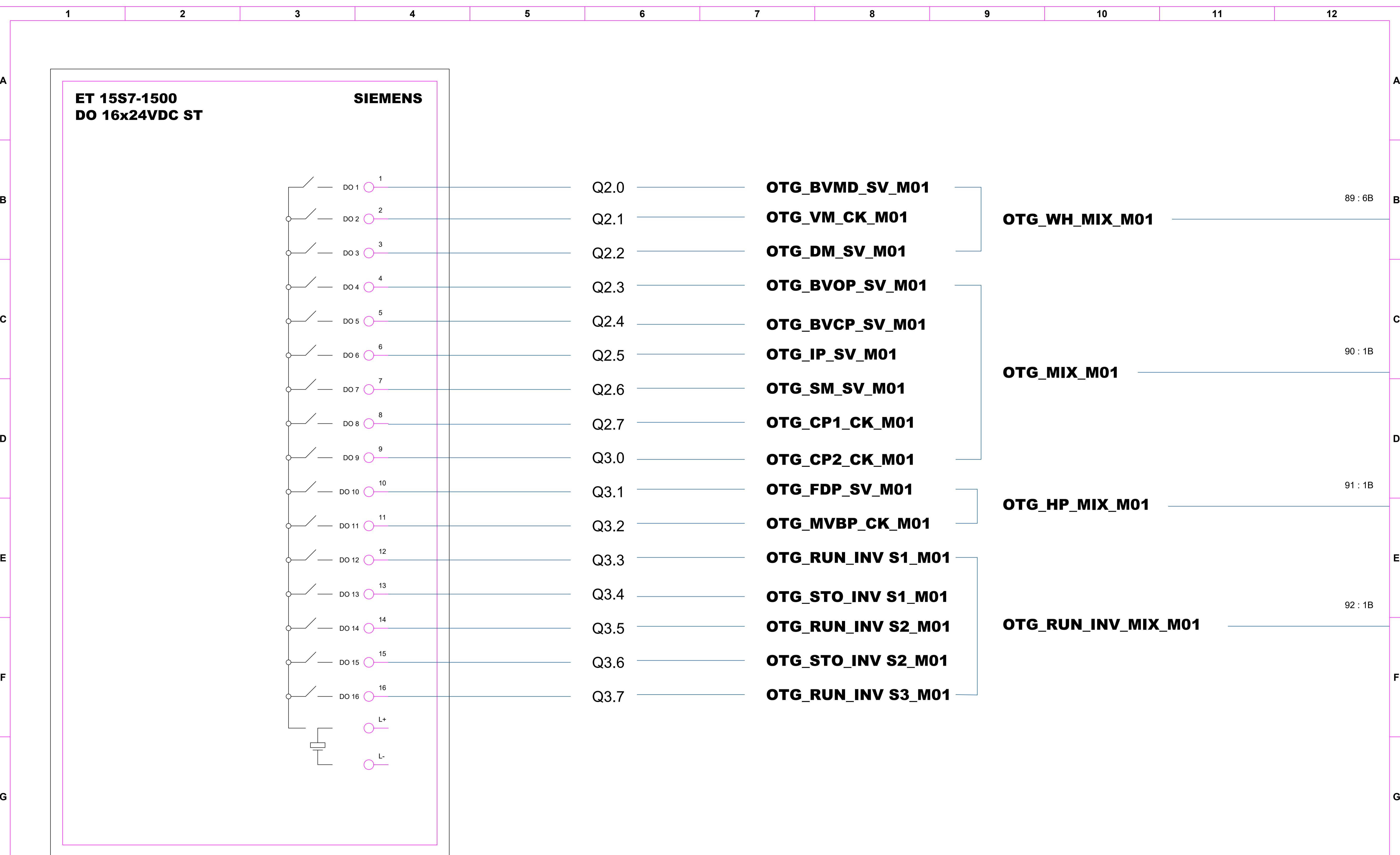
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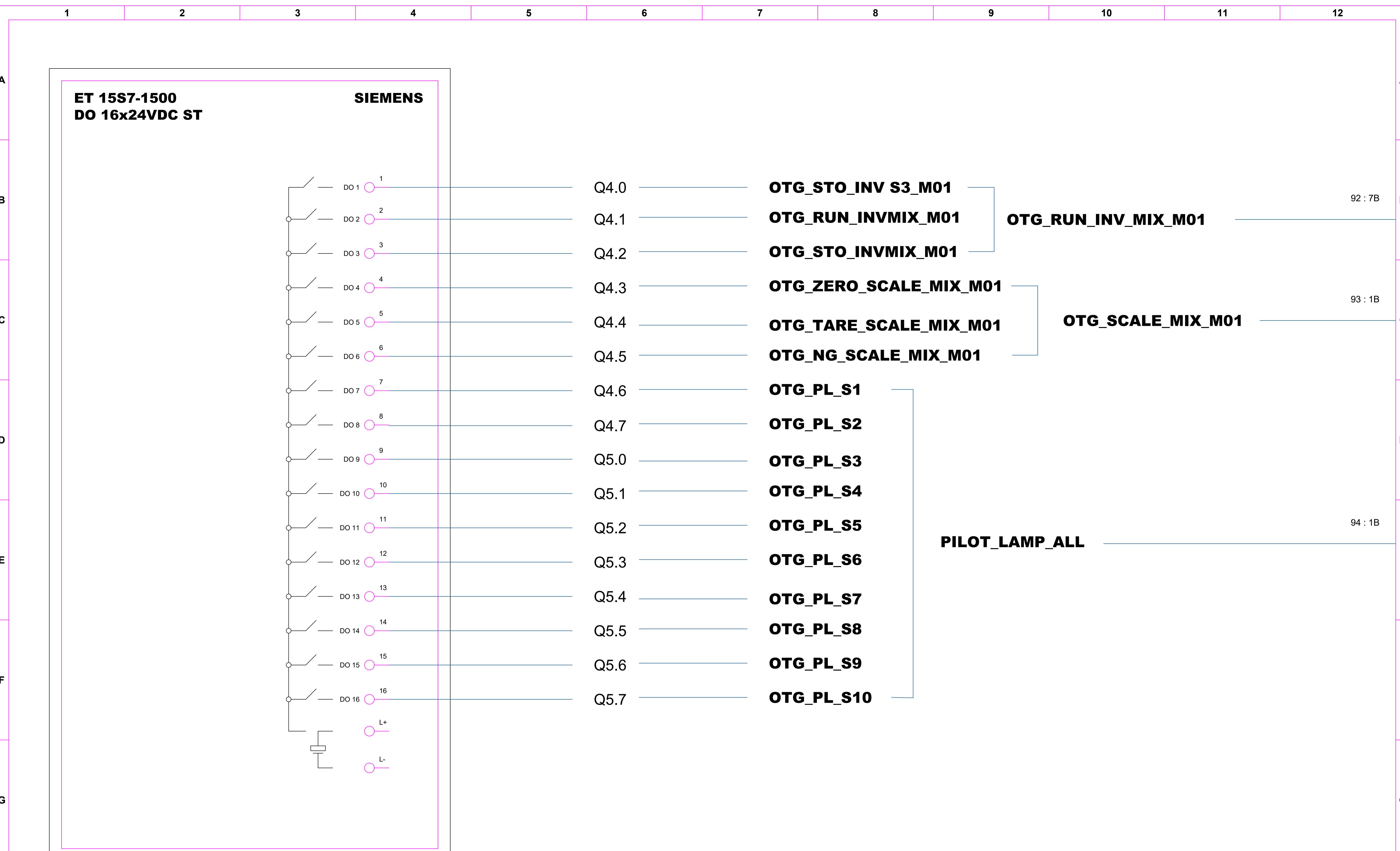
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Digital Input 4	Project Non Sanded Batching		H
4	21-05-2025		Drawn	RAFLI						
			Appr.							
			Norm		Wiring Control Panel				+ Sheet No.52 122 Sheet	

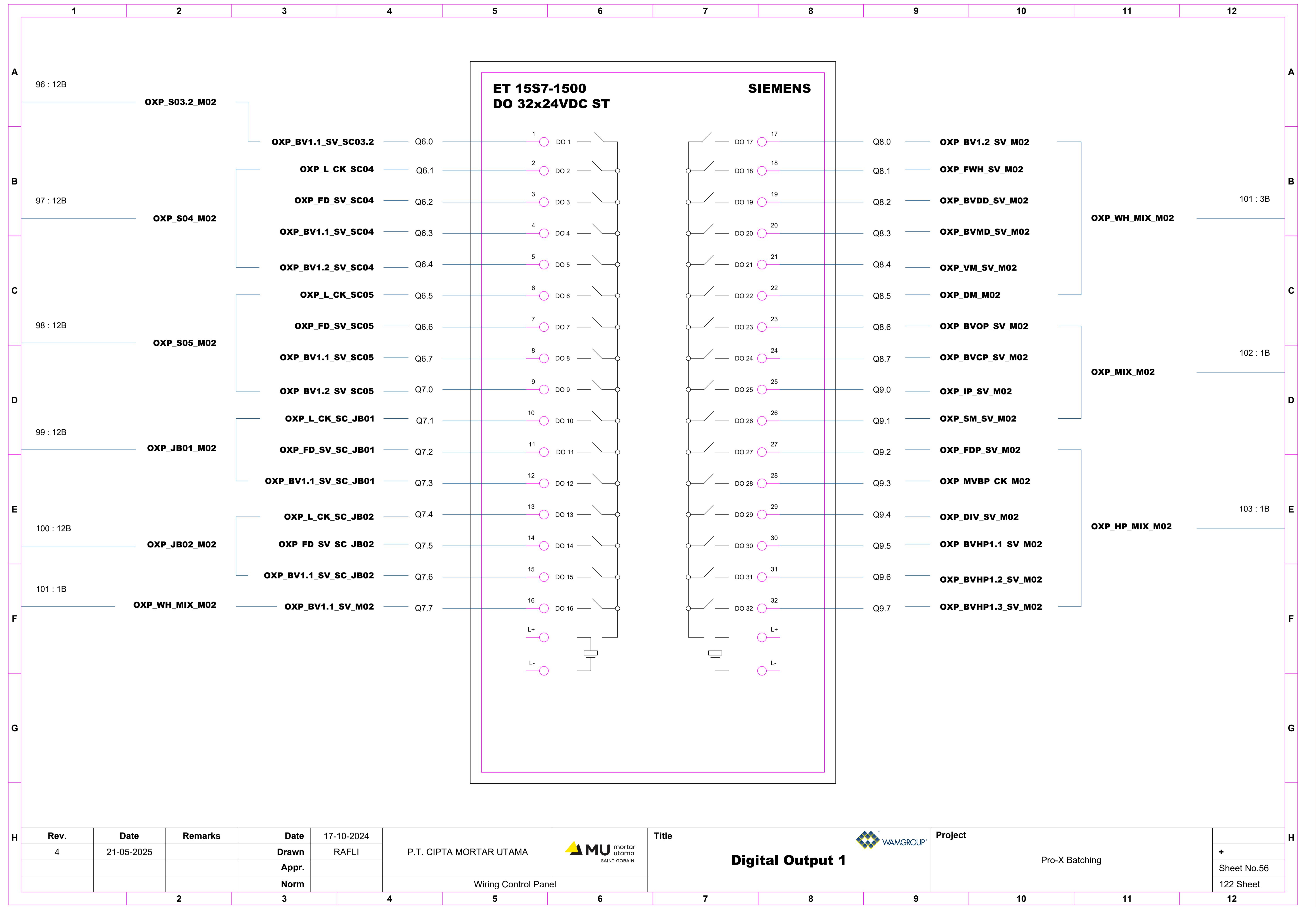
2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title	Project										
	4	21-05-2025		Drawn	RAFLI							+							
				Appr.					Address Tile Grouting			Sheet No.53							
				Norm					Wiring Control Panel			122 Sheet							
									2	3	4	5	6	7	8	9	10	11	12









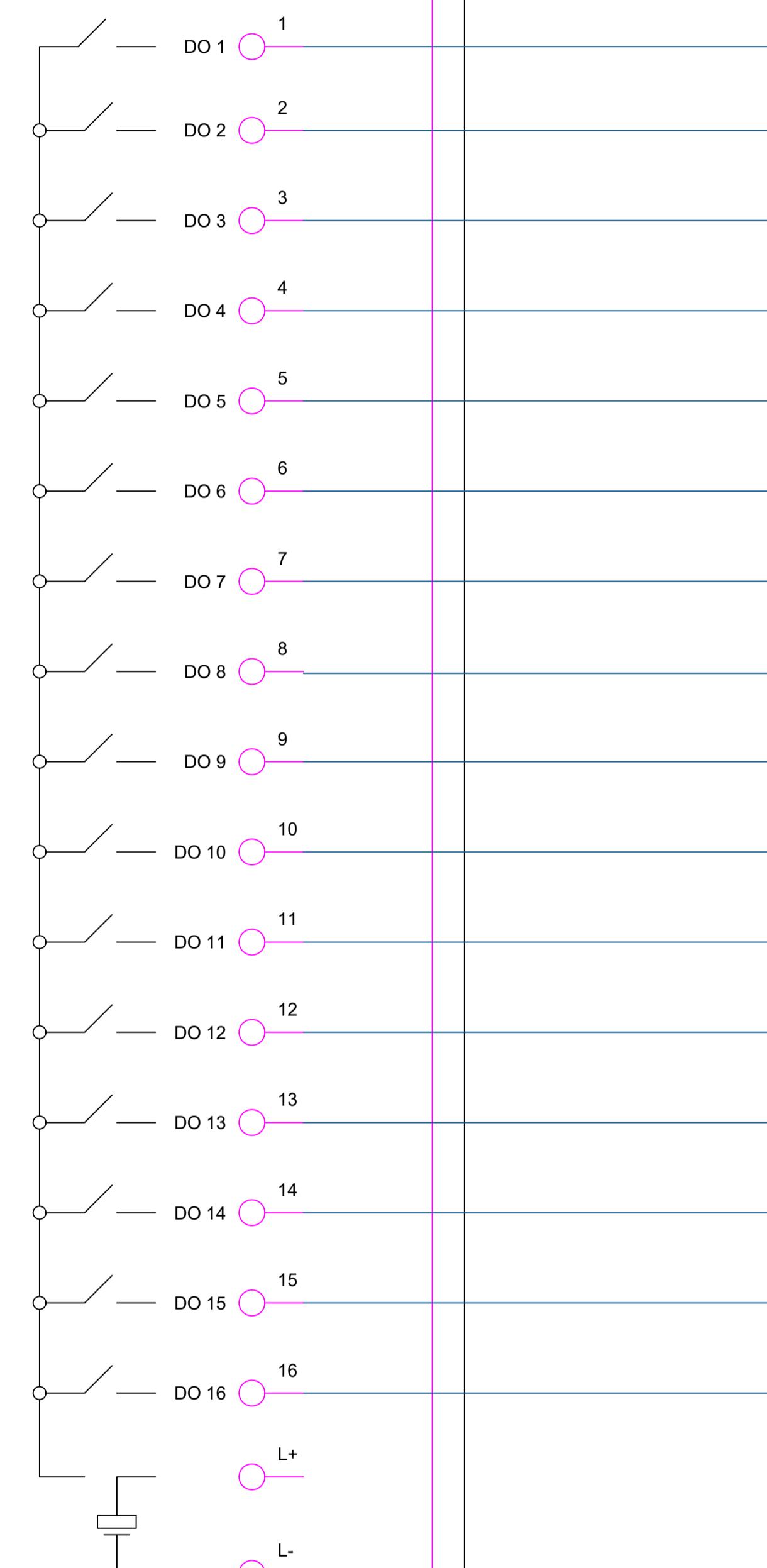
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title Digital Output 2	Project Pro-X Batching	H
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.57
				Norm						122 Sheet
						Wiring Control Panel				

1 2 3 4 5 6 7 8 9 10 11 12

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SIEMENS

**ET 15S7-1500
DO 16x24VDC ST**



Q14.0 Q14.1 Q14.2 Q14.3 Q14.4 Q14.5 Q14.6 Q14.7 Q15.0 Q15.1 Q15.2 Q15.3 Q15.4 Q15.5 Q15.6 Q15.7

ONS_L_CK_SC07
ONS_FD_SV_SC07
ONS_BV1.1_SV_SC07
ONS_BV1.2_SV_SC07
ONS_L_CK_SC08
ONS_BV_VM_SC08
ONS_BV1.1_SV_SC08
ONS_BV1.2_SV_SC08
ONS_L_CK_SC09
ONS_FD_SV_SC09
ONS_BV1.1_SV_SC09
ONS_BV1.2_SV_SC09
ONS_L_CK_SC10
ONS_FD_SV_SC10
ONS_BV1.1_SV_SC10
ONS_BV1.2_SV_SC10

ONS_S07_M03

109 : 1B

ONS_S08_M03

110 : 1B

ONS_S09_M03

111 : 1B

ONS_S10_M03

112 : 1B

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Digital Output 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					
			Appr.						
			Norm		Wiring Control Panel				+ Sheet No.58 122 Sheet

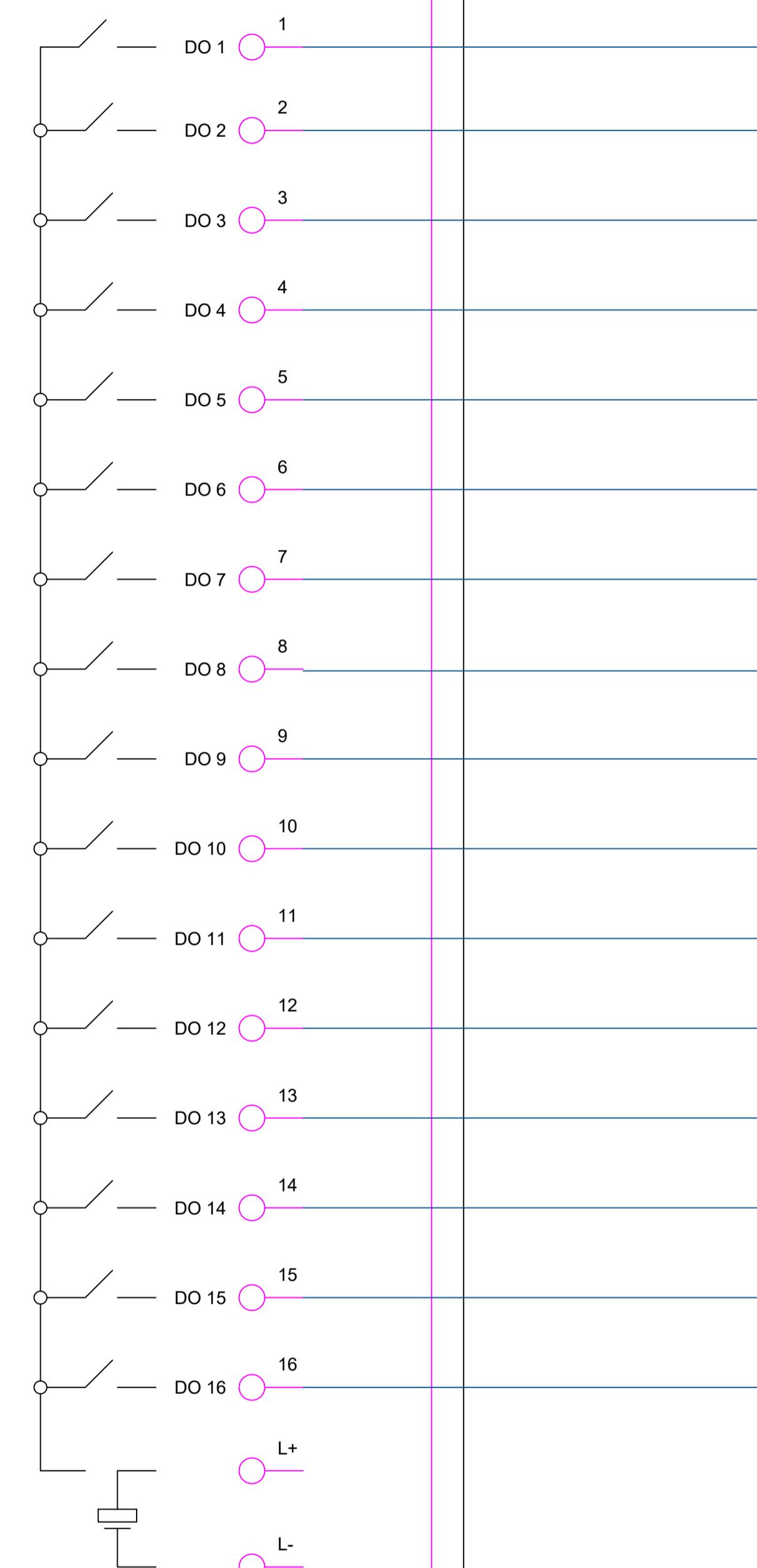
2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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**ET 15S7-1500
DO 16x24VDC ST**

SIEMENS



Q16.0 Q16.1 Q16.2 Q16.3 Q16.4 Q16.5 Q16.6 Q16.7 Q17.0 Q17.1 Q17.2 Q17.3 Q17.4 Q17.5 Q17.6 Q17.7

ONS_BV1.1_SV_M03
ONS_BV1.2_SV_M03
ONS_FWH_SV_M03
ONS_BVDD_SV_M03
ONS_BVMD_SV_M03
ONS_VM1.1_SV_M03
ONS_VM1.2_SV_M03
ONS_DM_M03
ONS_BVOP_SV_M03
ONS_BVCP_SV_M03
ONS_IP_SV_M03
ONS_SM_SV_M03
ONS_MX3_OC1_KC_M03
ONS_MX3_OC2_KC_M03
ONS_MX3_OC3_KC_M03
ONS_FUH_SV_M03

ONS_WH_MIX_M03

113 : 1B

ONS_MIX_M03

114 : 1B

ONS_HP_MIX_M03

115 : 1B

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	Digital Output 2	Project			
4	21-05-2025		Drawn	RAFLI								
			Appr.									
			Norm		Wiring Control Panel					Non Sanded Batching		
										+		
										Sheet No.59		
										122 Sheet		

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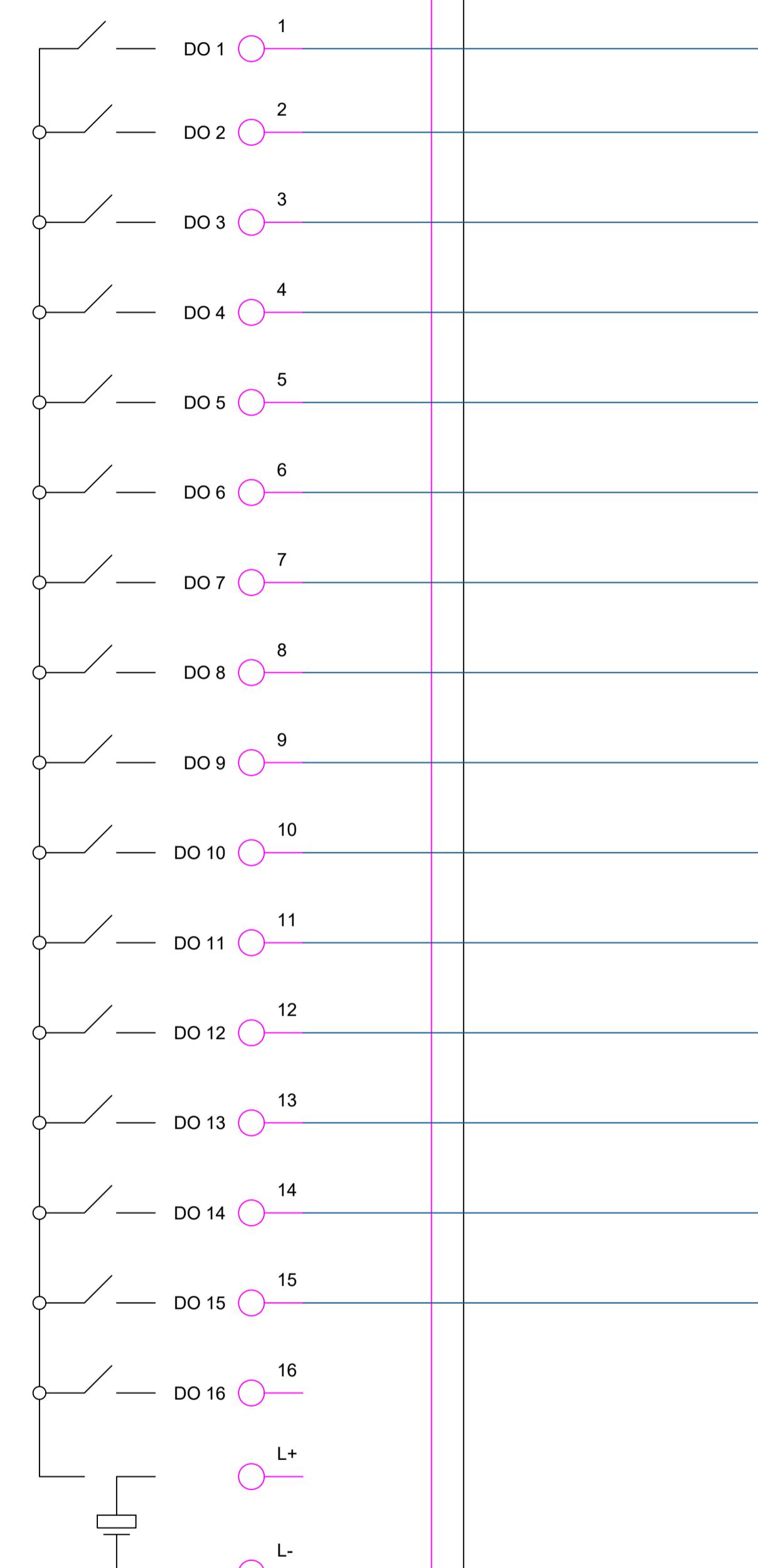
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**ET 15S7-1500
DO 16x24VDC ST****SIEMENS**

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Q18.0
Q18.1
Q18.2
Q18.3
Q18.4
Q18.5
Q18.6
Q18.7
Q19.0
Q19.1
Q19.2
Q19.3
Q19.4
Q19.5
Q19.6

ONS_MX3_VM1.1_SV_M03
ONS_MX3_VM1.2_SV_M03
OTG_RUN_INV S7_M03
OTG_STO_INV S7_M03
OTG_RUN_INV S8_M03
OTG_STO_INV S8_M03
OTG_RUN_INV S9_M03
OTG_STO_INV S9_M03
OTG_RUN_INV S10_M03
OTG_STO_INV S10_M03
OTG_RUN_INV MIX_M03
OTG_STO_INV MIX_M03
OTG_ZERO_SCALE_MIX_M02
OTG_TARE_SCALE_MIX_M02
OTG_NG_SCALE_MIX_M02

ONS_HP_MIX_M03

115 : 8B

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Title

Digital Output 4

Project

Non Sanded Batching

Rev.	Date	Remarks	Date	Drawn	17-10-2024
4	21-05-2025			RAFLI	
				Appr.	
			Norm		

P.T. CIPTA MORTAR UTAMA

Wiring Control Panel

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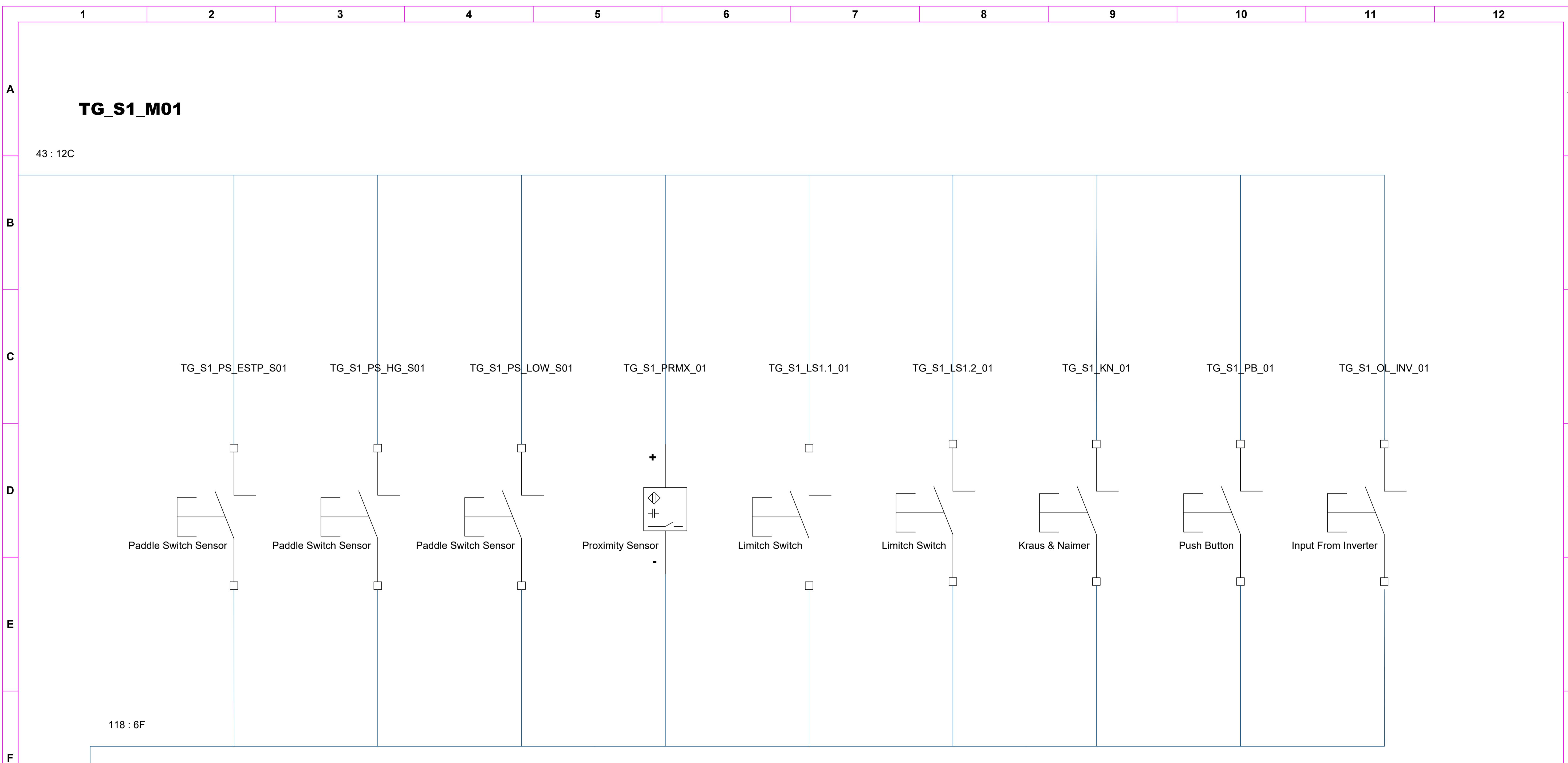
9

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Sheet No.60
122 Sheet

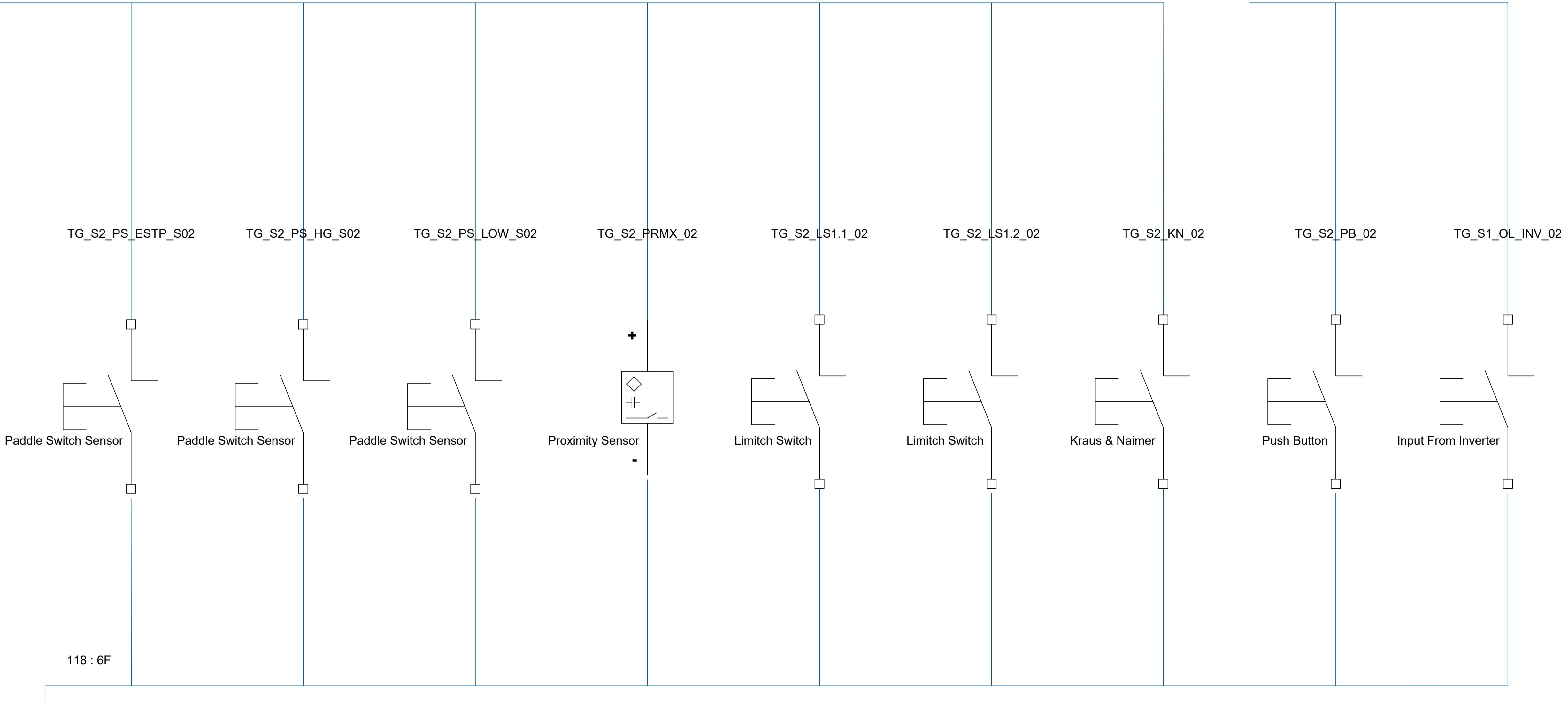


H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title	Project			
	4	21-05-2025		Drawn	RAFLI				+			
				Appr.					Sheet No.61			
				Norm	Wiring Control Panel				122 Sheet			
		2	3	4	5	6	7	8	9	10	11	12

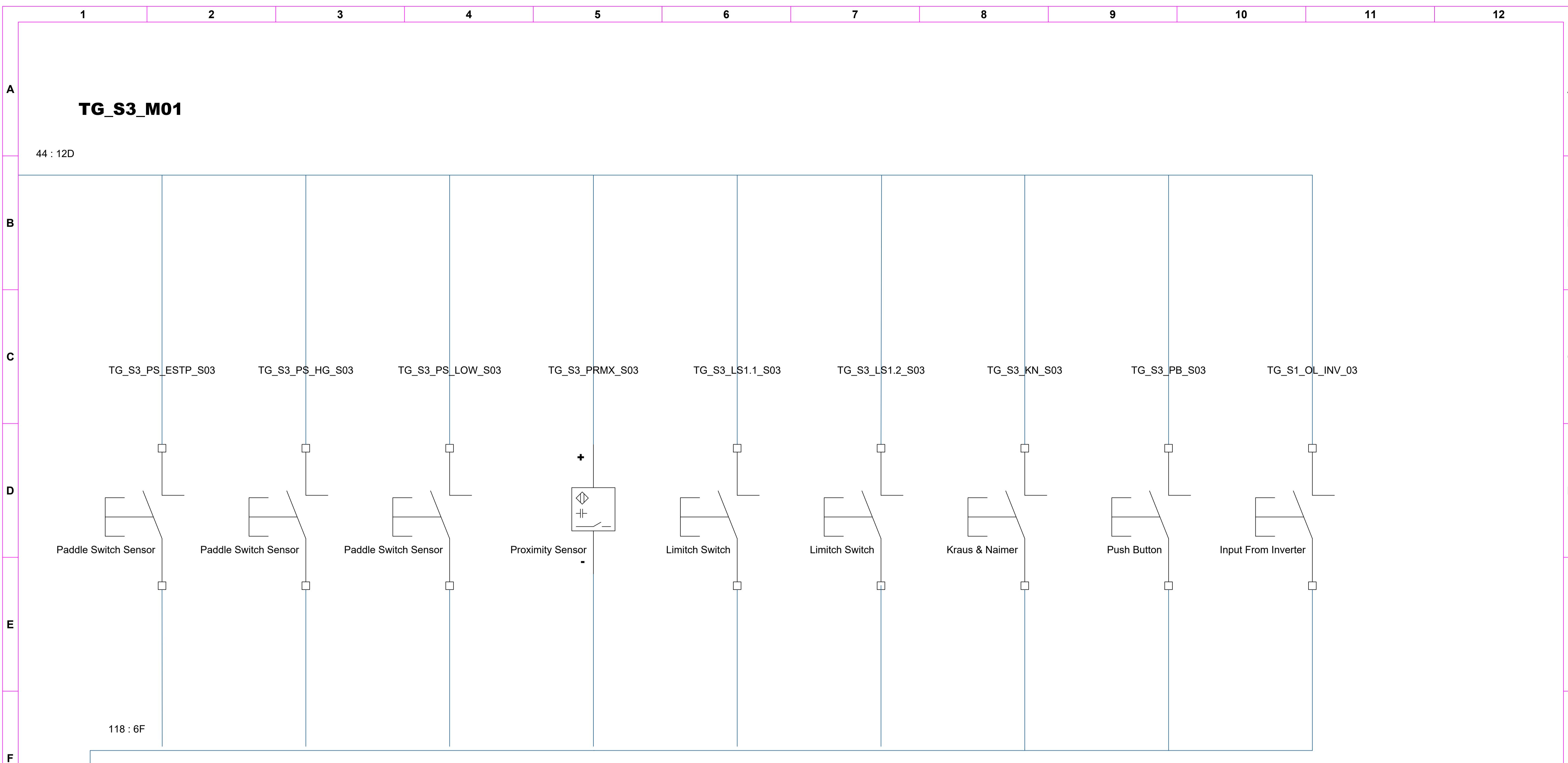
TG_S2_M01

43 : 12E

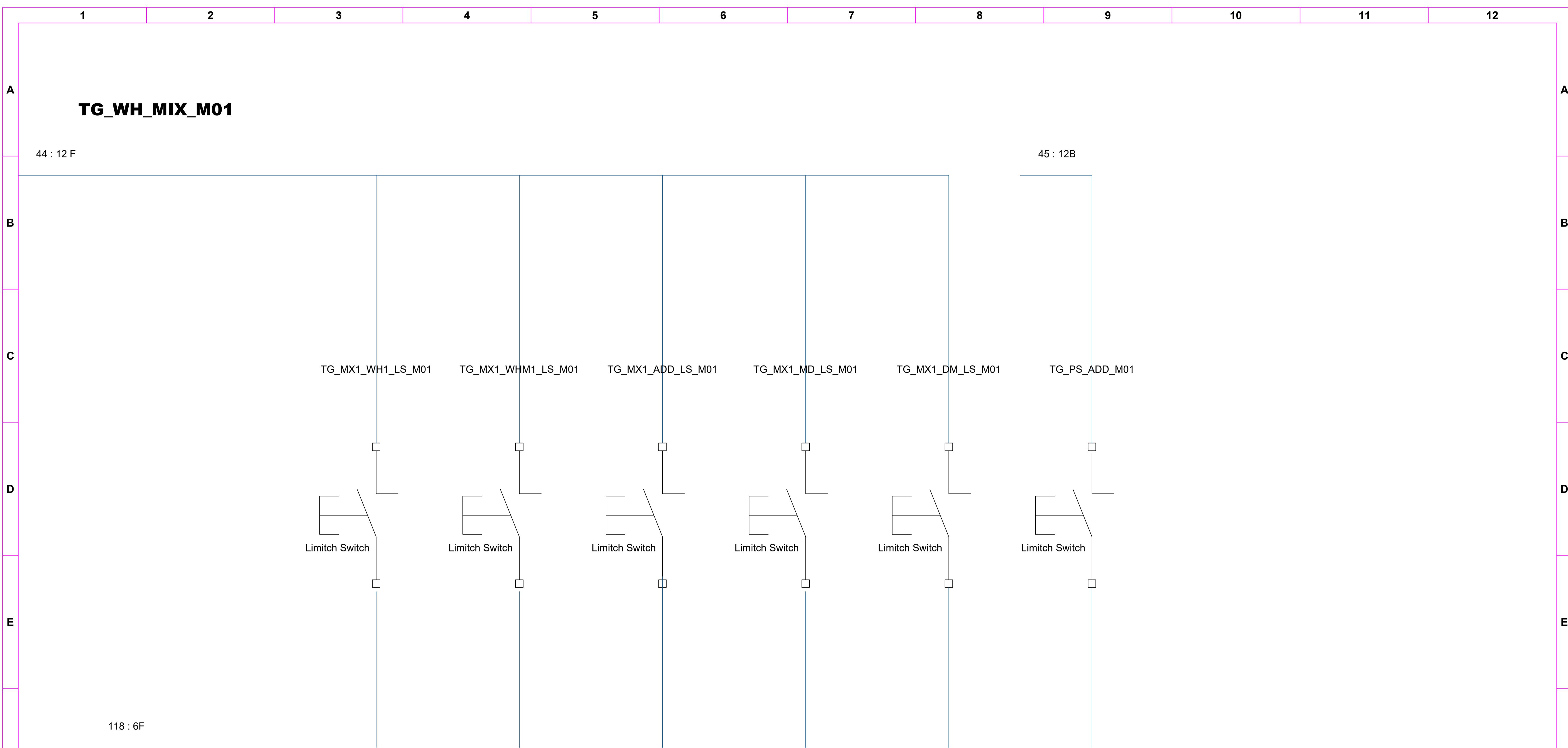
44 : 12B

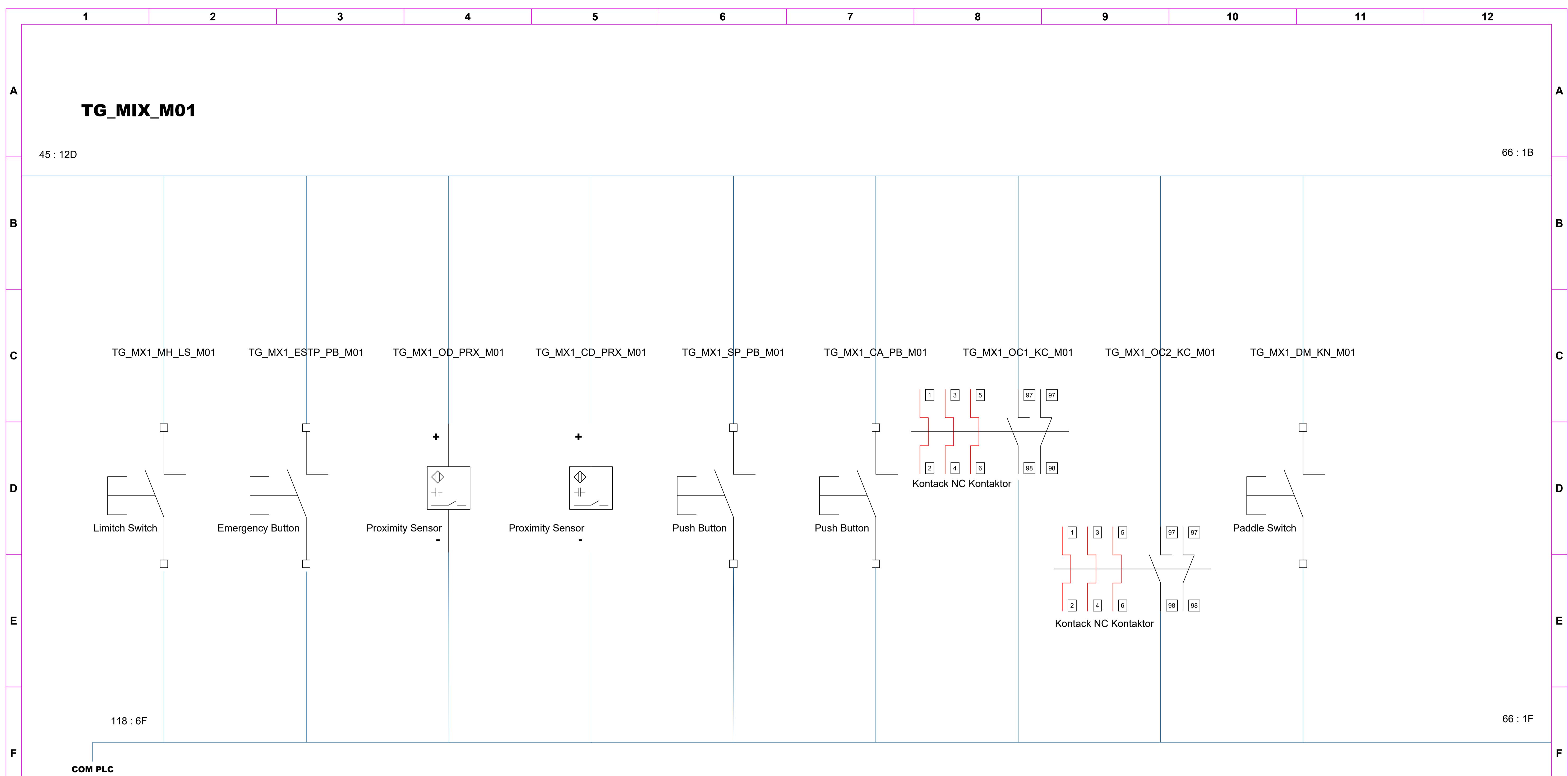


Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	MU mortar utama SAINT-GOBAIN	Title Group TG_S2_M01 Digital Input 1	Project Address Tile Grouting	H
4	21-05-2025		Drawn	RAFLI					+ Sheet No.62
			Appr.						122 Sheet
			Norm		Wiring Control Panel				12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title	Project			
	4	21-05-2025		Drawn	RAFLI						+	
				Appr.							Sheet No.63	
				Norm	Wiring Control Panel						122 Sheet	
	1	2	3	4	5	6	7	8	9	10	11	12





H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title Group TG_MIX_M01 Address Tile Grouting Digital Input 3 Wiring Control Panel	Project + Sheet No.66 122 Sheet	H		
	4	21-05-2025		Drawn	RAFLI						
				Appr.							
				Norm							
1	2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

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TG_HP_MIX_M01

45 : 12E

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TG_MX1_SHHP_PS_M01 TG_MX1_SLHP_PS_M01



118 : 6F

D D

E E

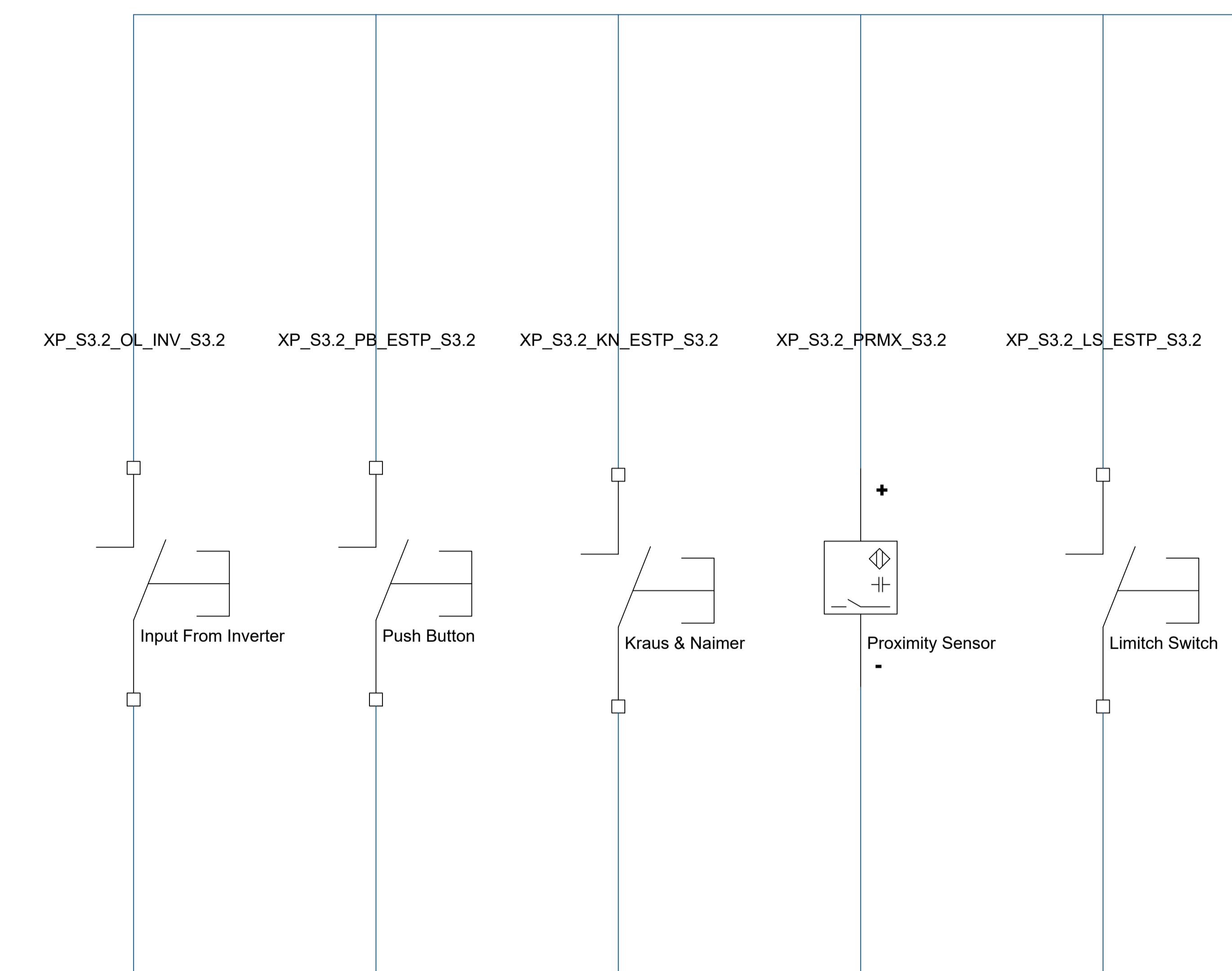
F F

COM PLC

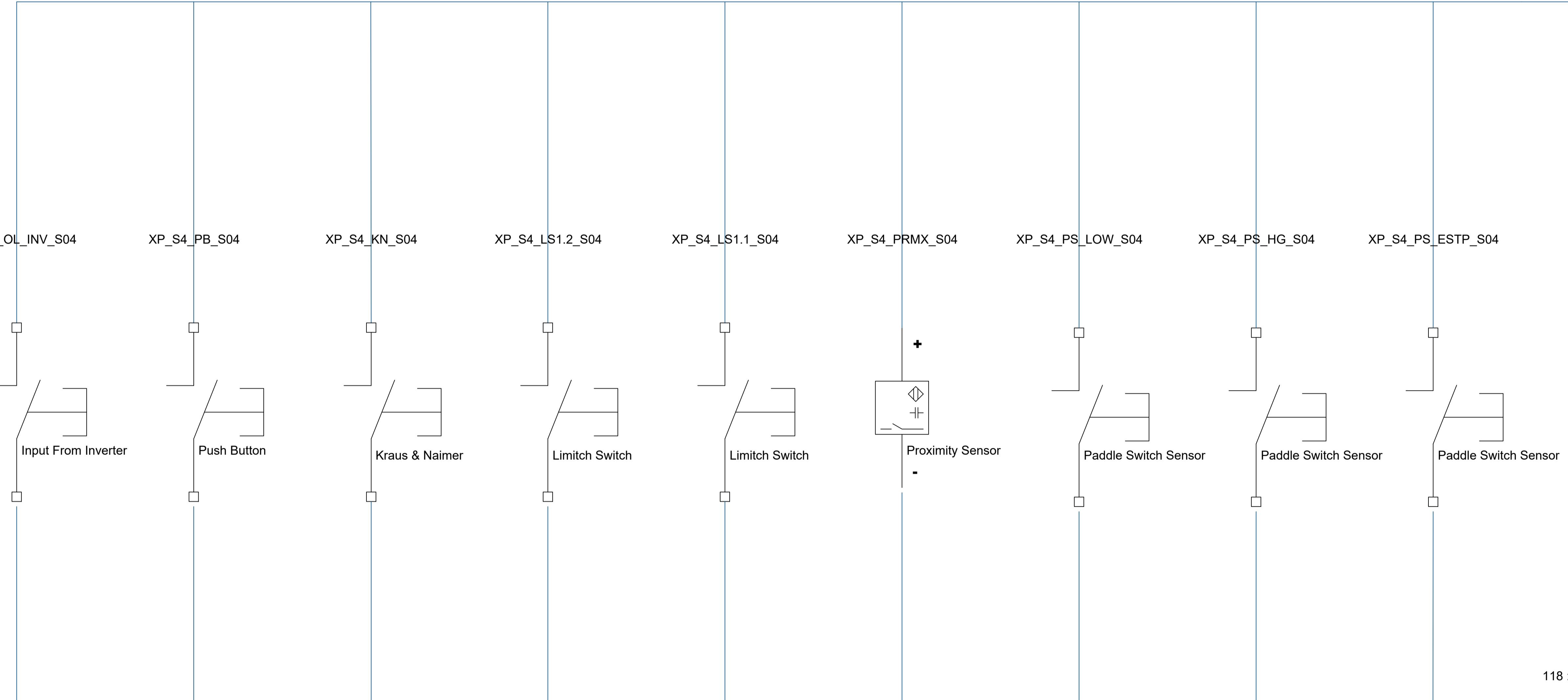
G G

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group TG_HP_MIX_M01 Digital Input 3	Project Address Tile Grouting					
4	21-05-2025		Drawn	RAFLI					+ Sheet No.67				
			Appr.						122 Sheet				
			Norm		Wiring Control Panel								
			2	3	4	5	6	7	8	9	10	11	12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 Group XP_S3.2_M02 Digital Input 1	Title Project WAMGROUP®	
	4	21-05-2025		Drawn	RAFLI				+
				Appr.					Sheet No.68
				Norm	Wiring Control Panel				122 Sheet



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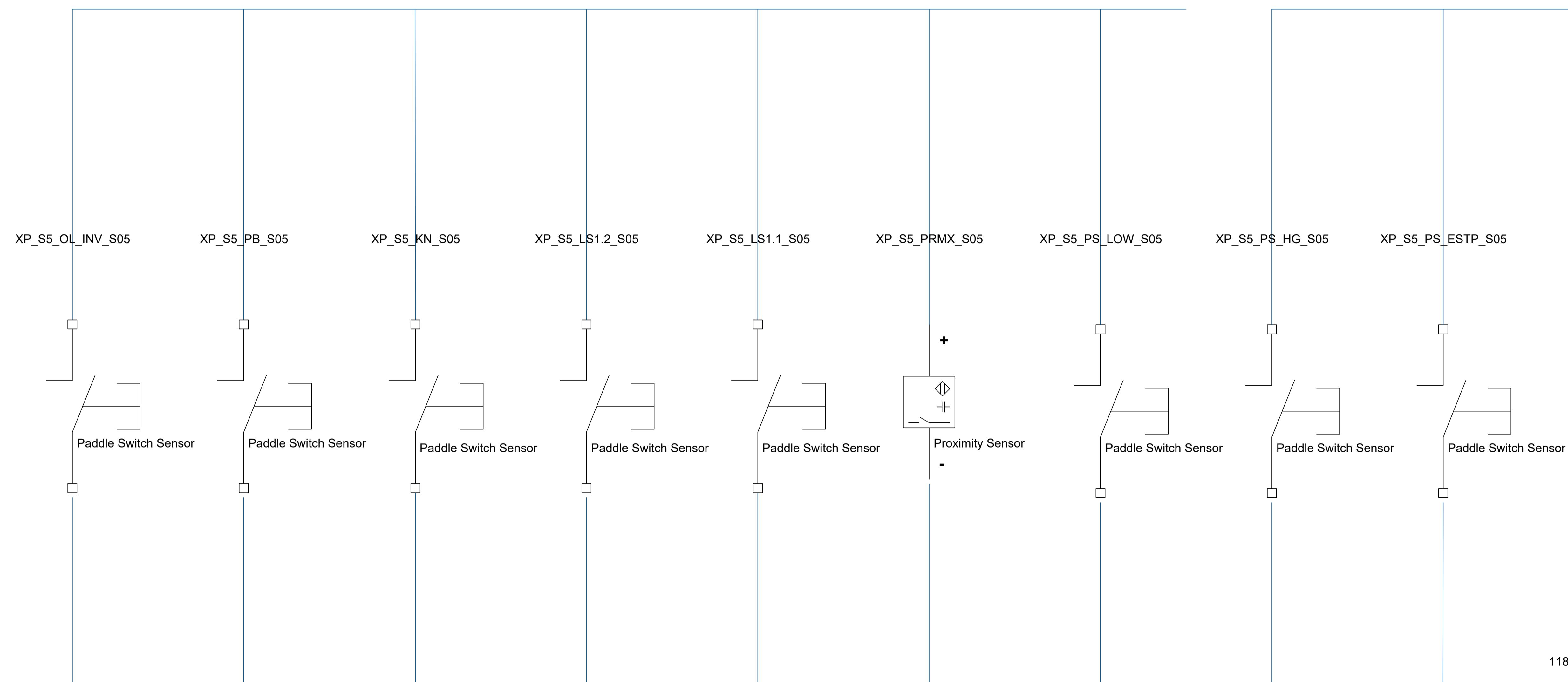
H

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XP_S5_M02

46 : 1F

46 : 12B



118 : 6F

COM PLC



Group XP_S5_M02

Digital Input 1

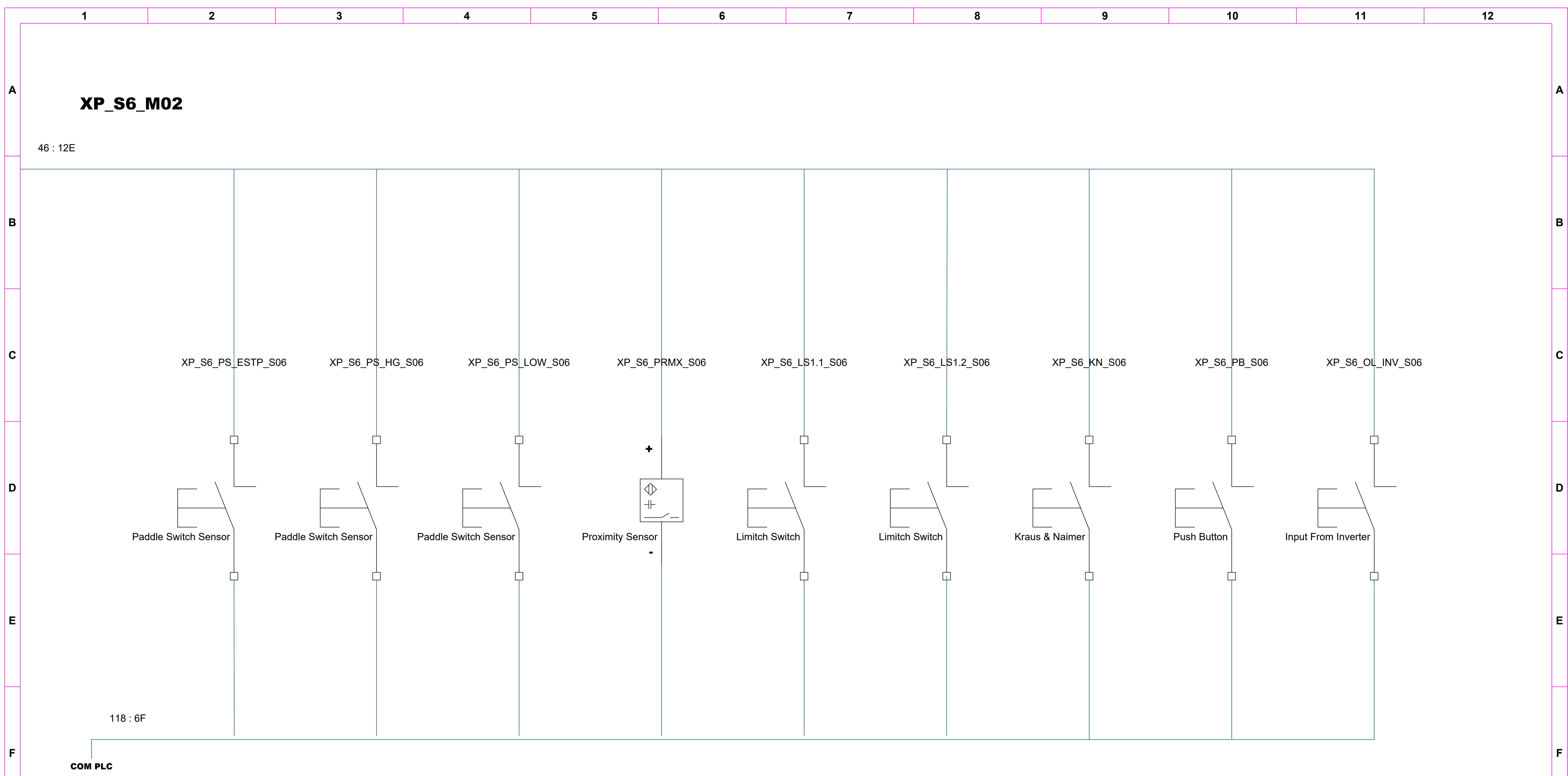
Project

Pro-X Batching

+
Sheet No.70
122 Sheet

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA		Title	Group XP_S5_M02 Digital Input 1	Project	Pro-X Batching	
4	21-05-2025		Drawn	RAFLI							+
			Appr.								Sheet No.70
			Norm		Wiring Control Panel						122 Sheet

2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title WAMGROUP® Group XP_S6_M02 Pro-X Batching Digital Input 1 Wiring Control Panel	Project H
	4	21-05-2025		Drawn	RAFLI			
				Appr.				
				Norm				

1 2 3 4 5 6 7 8 9 10 11 12

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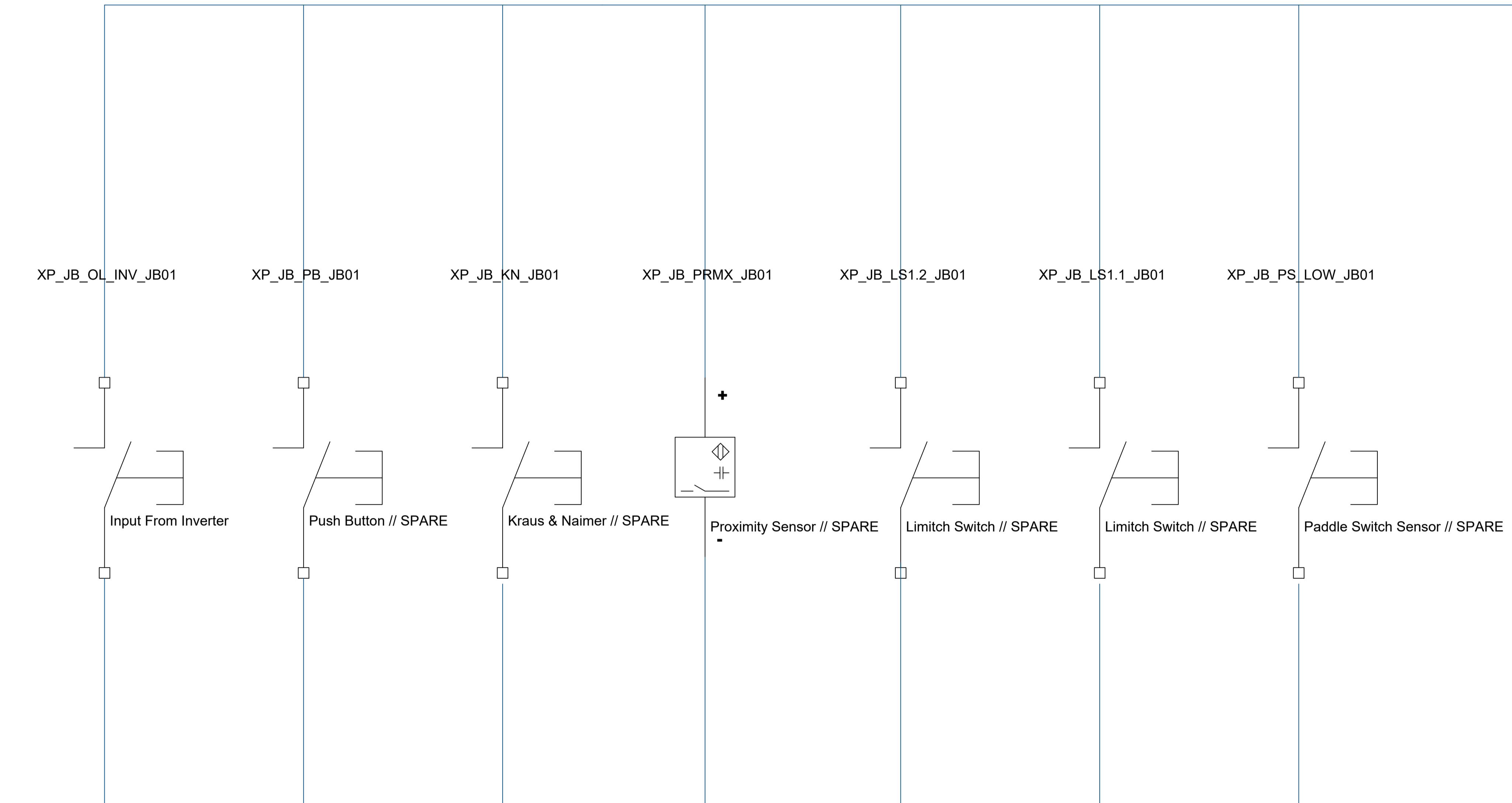
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XP_JB01_M02

47 : 1B



118 : 6F

COM PLC



Group XP_JB01_M02
Digital Input 2

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	Title	Project	Pro-X Batching	Sheet No.72	122 Sheet
4	21-05-2025		Drawn	RAFLI						
			Appr.							
			Norm		Wiring Control Panel					

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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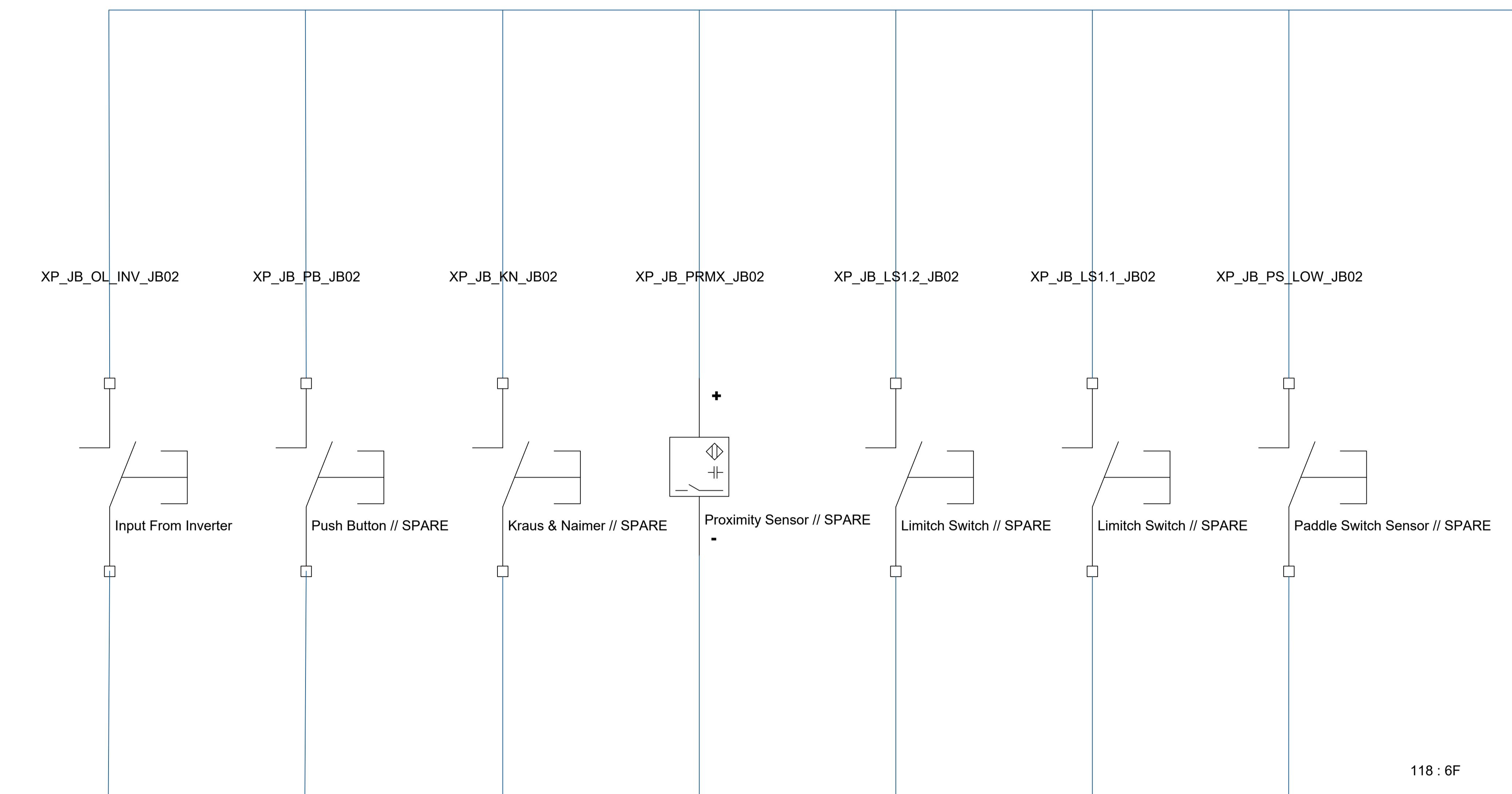
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XP_JB02_M02

47 : 1D



Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group XP_JB02_M02 Digital Input 2	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.73
			Appr.						122 Sheet
			Norm		Wiring Control Panel				

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1 2 3 4 5 6 7 8 9 10 11 12

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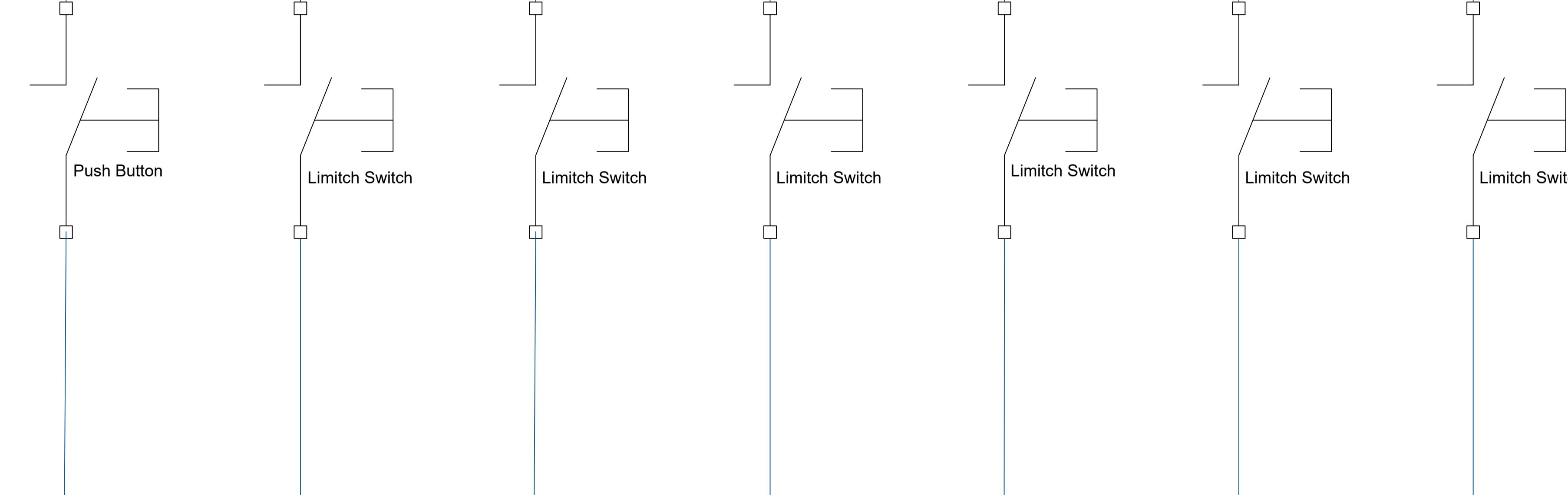
H

47 : 12B

XP_WH_MIX_M02

47 : 1F

XP_MX2_ESTP_PB_M02 XP_MX2_MH_LS_M02 XP_MX2_DM_LS_M02 XP_MX2_MD_LS_M02 XP_MX2_ADD_LS_M02 XP_MX2_WHM2_LS_M02 XP_MX2_WH2_LS_M02



118 : 6F

COM PLC



Title

Group XP_WH_MIX_M02
Digital Input 2



Project

Pro-X Batching

+
Sheet No.74
122 Sheet

Rev.	Date	Remarks	Date	17-10-2024
4	21-05-2025		Drawn	RAFLI
			Appr.	
			Norm	

P.T. CIPTA MORTAR UTAMA

Wiring Control Panel

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

XP_MIX_M02

47 : 12D

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XP_MX2_OD_PRX_M02 XP_MX2_CD_PRX_M02 XP_MX2_SP_PRX_M02 XP_MX2_CA_PRX_M02 XP_MX2_DM_KN_M02 XP_MX2_RM_PB_M02 XP_MX2_DL_INV_M02

Limitch Switch

Limitch Switch

Push Button

Push Button

Kraus & Naimer

Push Button

Push Button

Input From Inverter

118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group XP_MIX_M02 Digital Input 2	Project Pro-X Batching	
4	21-05-2025		Drawn	RAFLI					+
			Appr.						Sheet No.75
			Norm		Wiring Control Panel				122 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

XP_HP_MIX_M02

47 : 12E

48 : 1B

B

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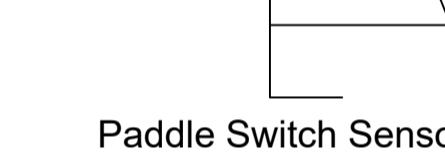
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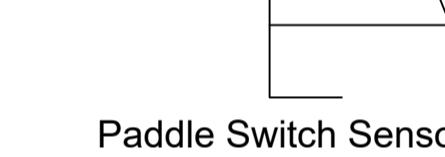
XP_MX2_SHIP_PS_M02 XP_MX2_SLHP_PS_M02 XP_MX2_SRD1_PRX_M02 XP_MX2_SRD2_PRX_M02 XP_MX2_LS1.1_PRX_M02 XP_MX2_LS1.2_PRX_M02

D

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Paddle Switch Sensor



Paddle Switch Sensor



Proximity Sensor



Proximity Sensor



Proximity Sensor



Proximity Sensor

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118 : 6F

COM PLC



Title

Group **XP_HP_MIX_M02**
Digital Input 2



Project

Pro-X Batching

+
Sheet No.76
122 Sheet

Rev.	Date	Remarks	Date	17-10-2024	Drawn	RAFLI
4	21-05-2025		Appr.			
			Norm			

P.T. CIPTA MORTAR UTAMA

Wiring Control Panel

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1 2 3 4 5 6 7 8 9 10 11 12

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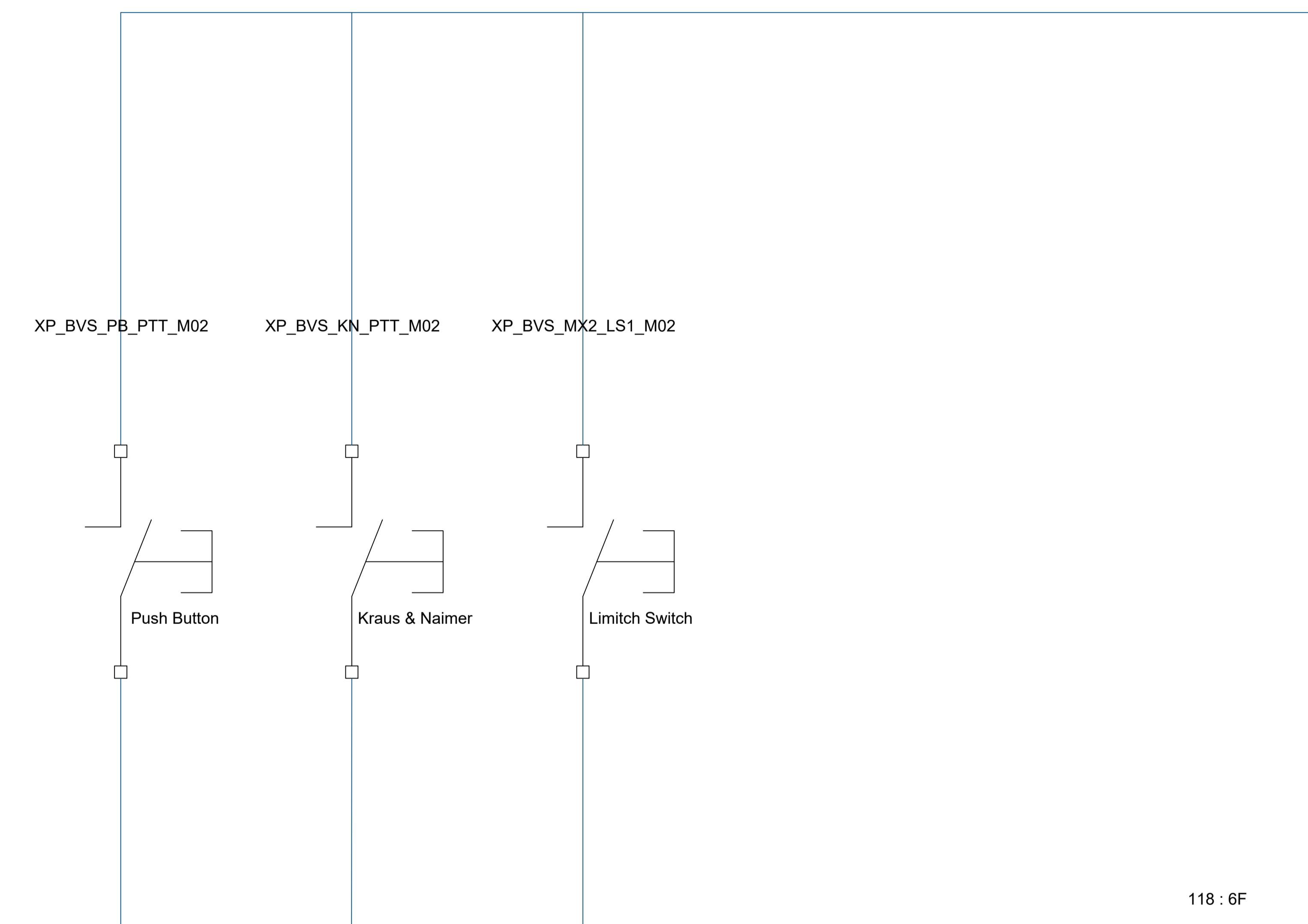
G

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XP_XTTG_MIX_M02

48 : 1C



AMU
mortar
utama
SAINT-GOBAIN

Title

Group XP_XTTG_MIX_M02

Digital Input 3



WAMGROUP



WAMGROUP

WAMGROUP

Project

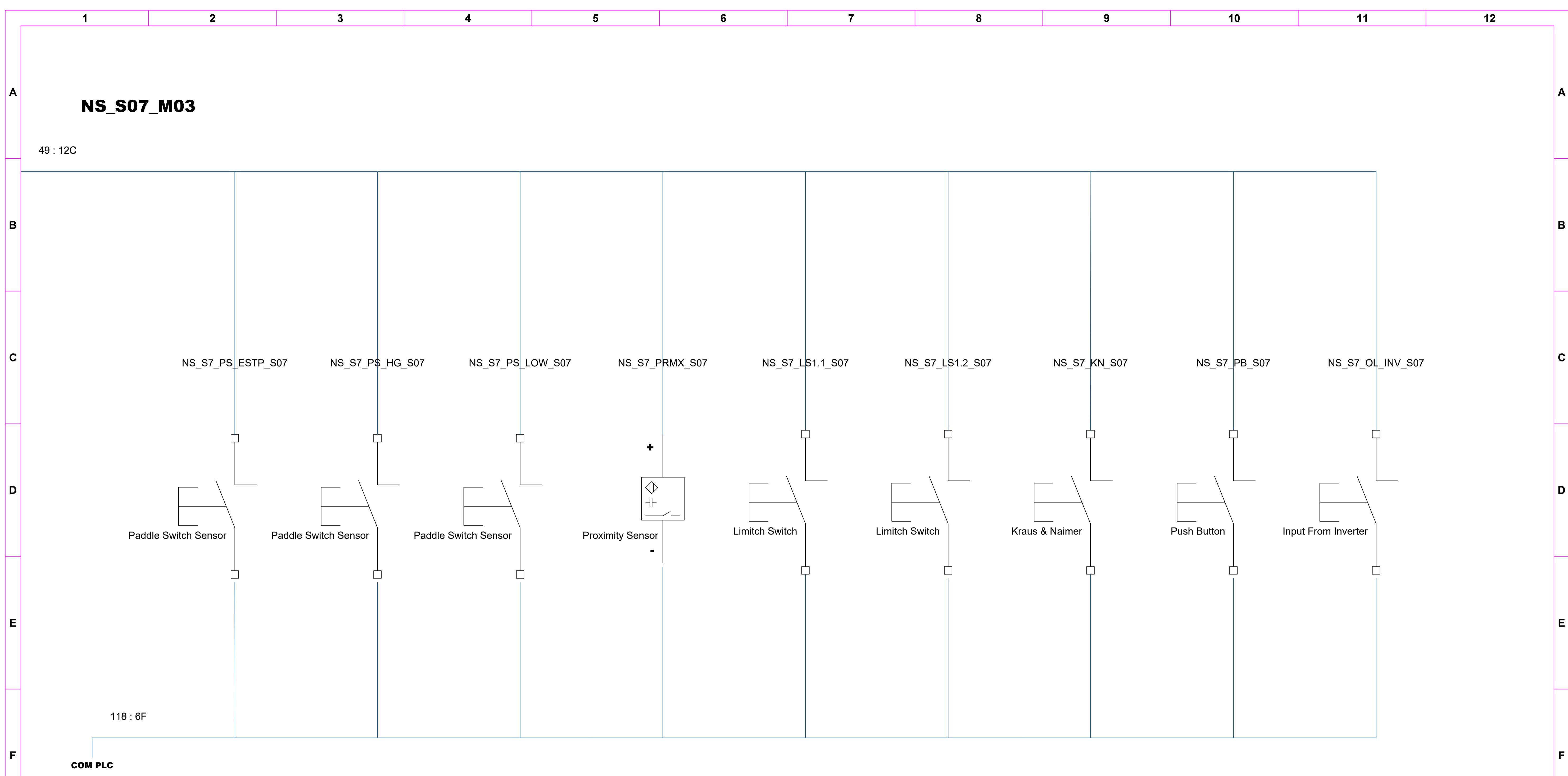
Pro-X Batching

+

Sheet No.77

122 Sheet

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 AMU mortar utama SAINT-GOBAIN	Title Group XP_XTTG_MIX_M02 Digital Input 3	Project Pro-X Batching							
4	21-05-2025		Drawn	RAFLI											
			Appr.												
			Norm		Wiring Control Panel										
					2	3	4	5	6	7	8	9	10	11	12



1 2 3 4 5 6 7 8 9 10 11 12

NS_S08_M03

49 : 12E

50 : 12B

NS_S8_PS_ESTP_S08 NS_S8_PS_HG_S08 NS_S8_PS_LOW_S08 NS_S8_PRMX_S08 NS_S8_LS1.1_S08 NS_S8_LS1.2_S08 NS_S8_KN_S08 NS_S8_PB_S08 NS_S7_OI_INV_S08

Paddle Switch Sensor Paddle Switch Sensor Paddle Switch Sensor

Proximity Sensor

Limits Switch

Limits Switch

Kraus & Naimer

Push Button

Input From Inverter

118 : 6F

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group NS_S08_M03 Digital Input 1	Project Non Sanded Batching			
	4	21-05-2025			Drawn							
					Appr.							
				Norm		Wiring Control Panel						
		2		3		4	5	6	7	8		
									9	10		
									11	12		

+
Sheet No.79
122 Sheet

1 2 3 4 5 6 7 8 9 10 11 12

NS_S09_M03

50 : 12B

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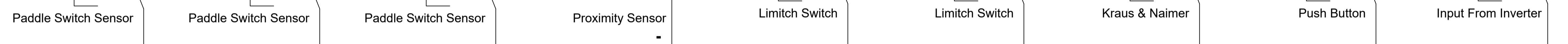
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NS_S9_PS_ESTP_S09 NS_S9_PS_HG_S09 NS_S9_PS_LOW_S09 NS_S9_PRMX_S09 NS_S9_LS1.1_S09 NS_S9_LS1.2_S09 NS_S9_KN_S09 NS_S9_PB_S09 NS_S7_OI_INV_S09



118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group NS_S09_M03 Digital Input 2	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.80
			Appr.						122 Sheet
			Norm		Wiring Control Panel				

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

NS_S10_M03

50 : 12F

51 : 12B

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NS_S10_PS_ESTP_S10 NS_S10_PS_HG_S10 NS_S10_PS_LOW_S10 NS_S10_PRMX_S10 NS_S10_LS1.1_S10 NS_S10_LS1.2_S10 NS_S10_KN_S10 NS_S10_PB_S10 NS_S7_OI_INV_S10

D

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Paddle Switch Sensor Paddle Switch Sensor Paddle Switch Sensor

Proximity Sensor

Limitch Switch

Limitch Switch

Kraus & Naimer

Push Button

Input From Inverter

E

D

118 : 6F

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COM PLC

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Group NS_S10_M03
Digital Input 2

Project
Non Sanded Batching
+
Sheet No.81
122 Sheet

H

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	Title	Group NS_S10_M03 Digital Input 2	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+
			Appr.						Sheet No.81
			Norm		Wiring Control Panel				122 Sheet

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

NS_WH_MIX_M03

51 : 12D

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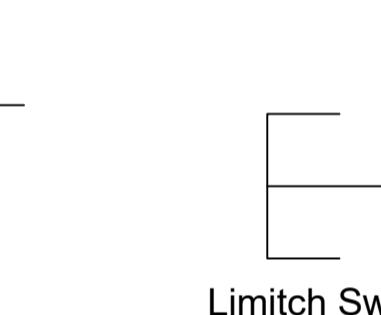
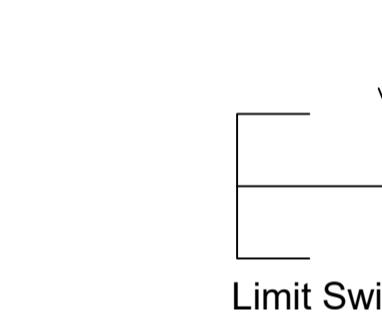
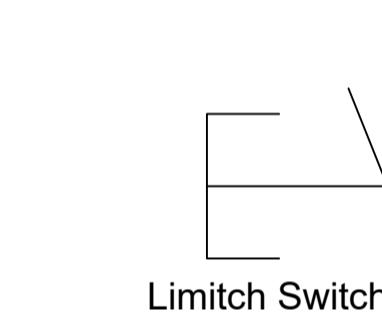
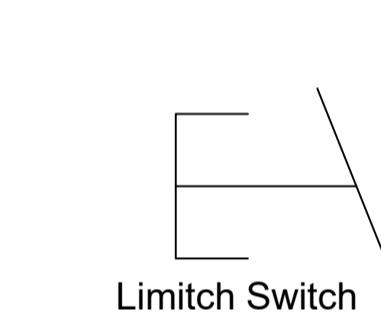
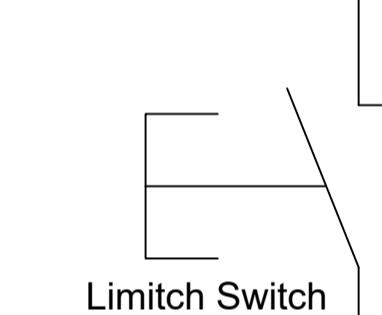
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NS_MX3_WH3_LS_M03 NS_MX3_WHM3_LS_M03 NS_MX3_ADD_LS_M03 NS_MX3_MD_LS_M03 NS_MX3_DM_LS_M03



118 : 6F

COM PLC

Rev.	Date	Remarks	Date	Drawn	Appr.	Norm	P.T. CIPTA MORTAR UTAMA	AMU mortar utama SAINT-GOBAIN	Title	Project	
4	21-05-2025			RAFLI					Group NS_WH_MIX_M03 Digital Input 3	Non Sanded Batching	+
											Sheet No.82
											122 Sheet

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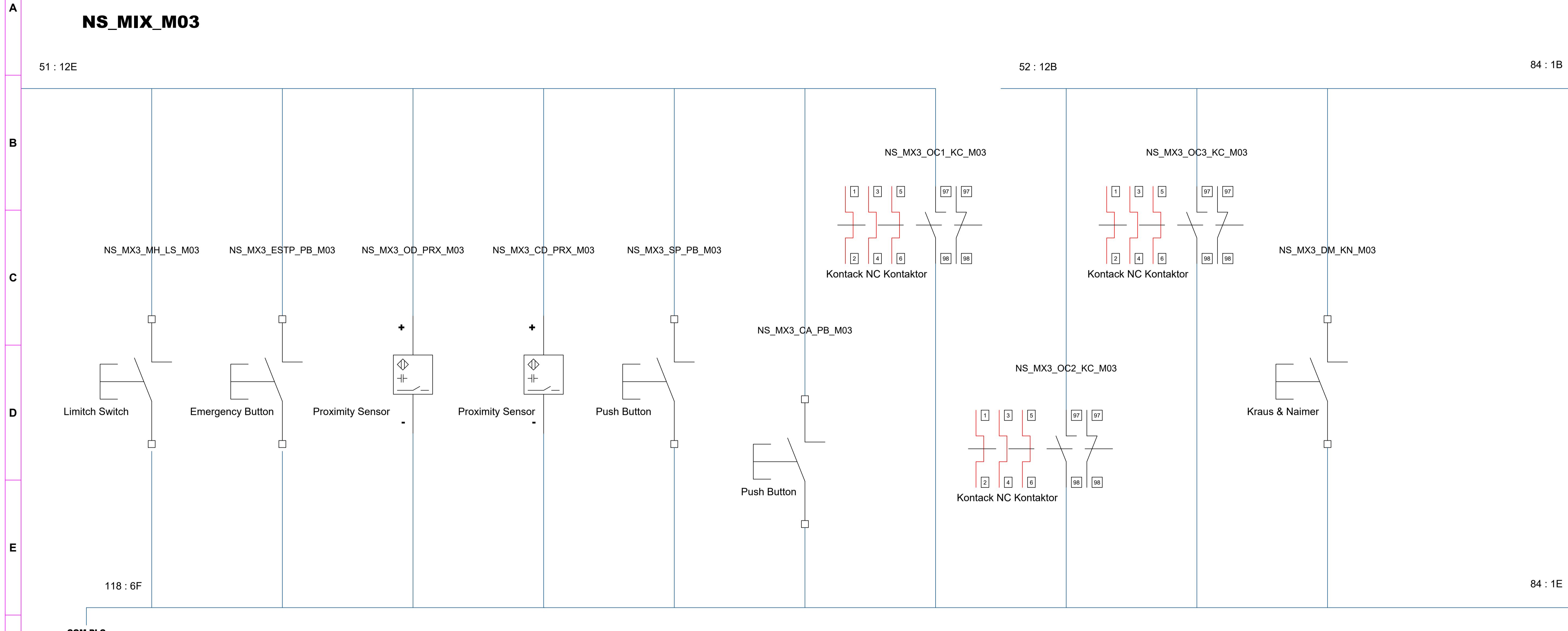
1 2 3 4 5 6 7 8 9 10 11 12

NS_MIX_M03

51 : 12E

52 : 12B

84 : 1B



COM PLC 118 : 6F 84 : 1E

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr. Norm	WAMGROUP SAINT-GOBAIN Wiring Control Panel	Title Group NS_MIX_M03 Digital Input 3	Project Non Sanded Batching	
2	4	21-05-2025			RAFLI					
3										
4									+ Sheet No.83 122 Sheet	
5										
6										
7										
8										
9										
10										
11										
12										

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	MU mortar utama SAINT-GOBAIN	Title	Project Group NS_MIX_M03 Digital Input 3 Non Sanded Batching Wiring Control Panel	H
4	21-05-2025		Drawn	RAFLI						+
			Appr.							Sheet No.84
			Norm							122 Sheet
2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

NS_HP_MIX_M03

52 : 12D

B

NS_MX3_SLHP_PS_M03 NS_MX3_SBVUP1.2_PS_M03

NS_MX3_SHHP_PS_M03

NS_MX3_BVUP1.1_PS_M03

Paddle Switch

Paddle Switch

Proximity Sensor

Proximity Sensor

118 : 6F

COM PLC

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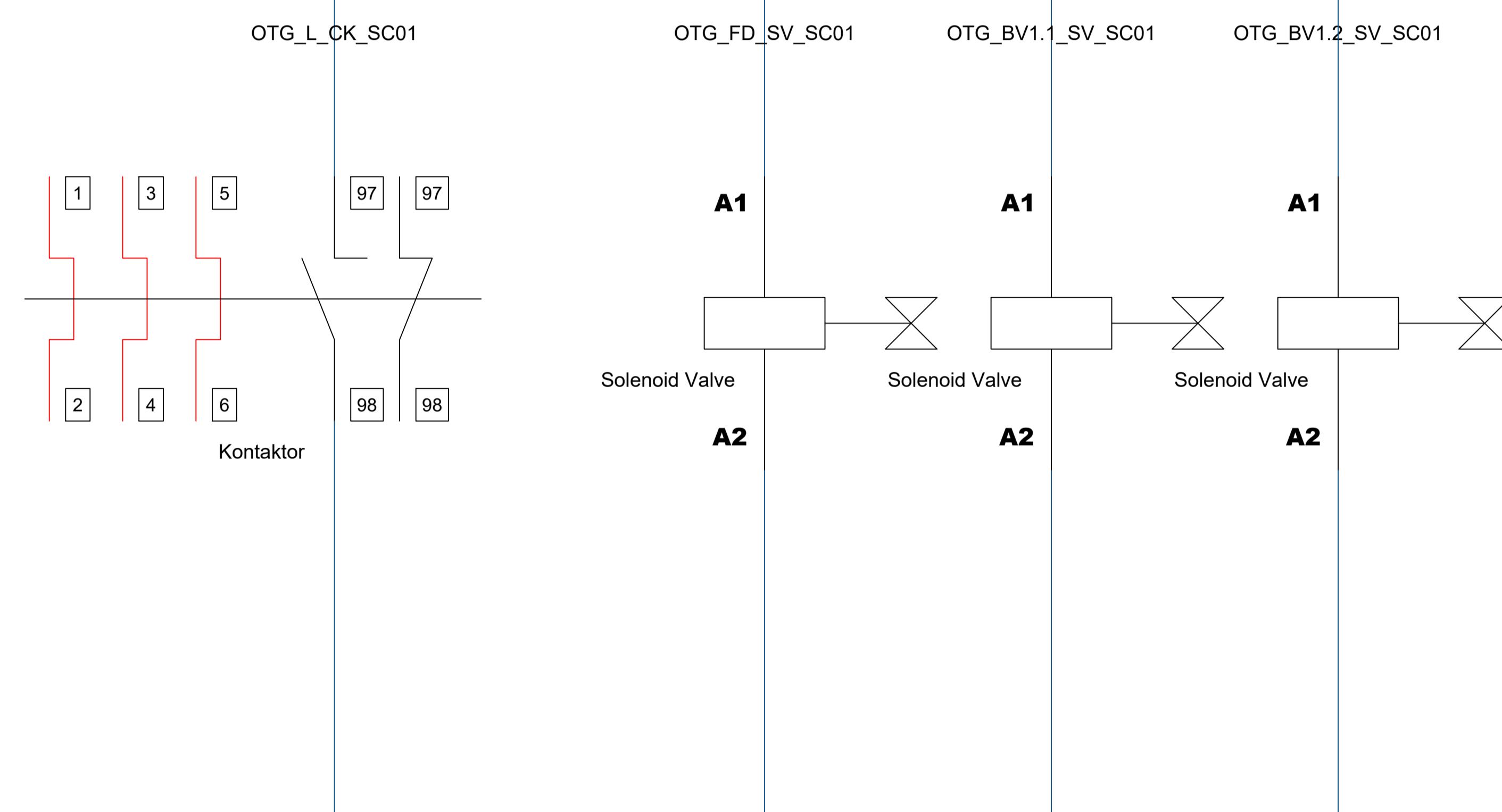
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group NS_HP_MIX_M03 Digital Input 3	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.85
			Appr.						
			Norm		Wiring Control Panel				122 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

OTG_S1_M01

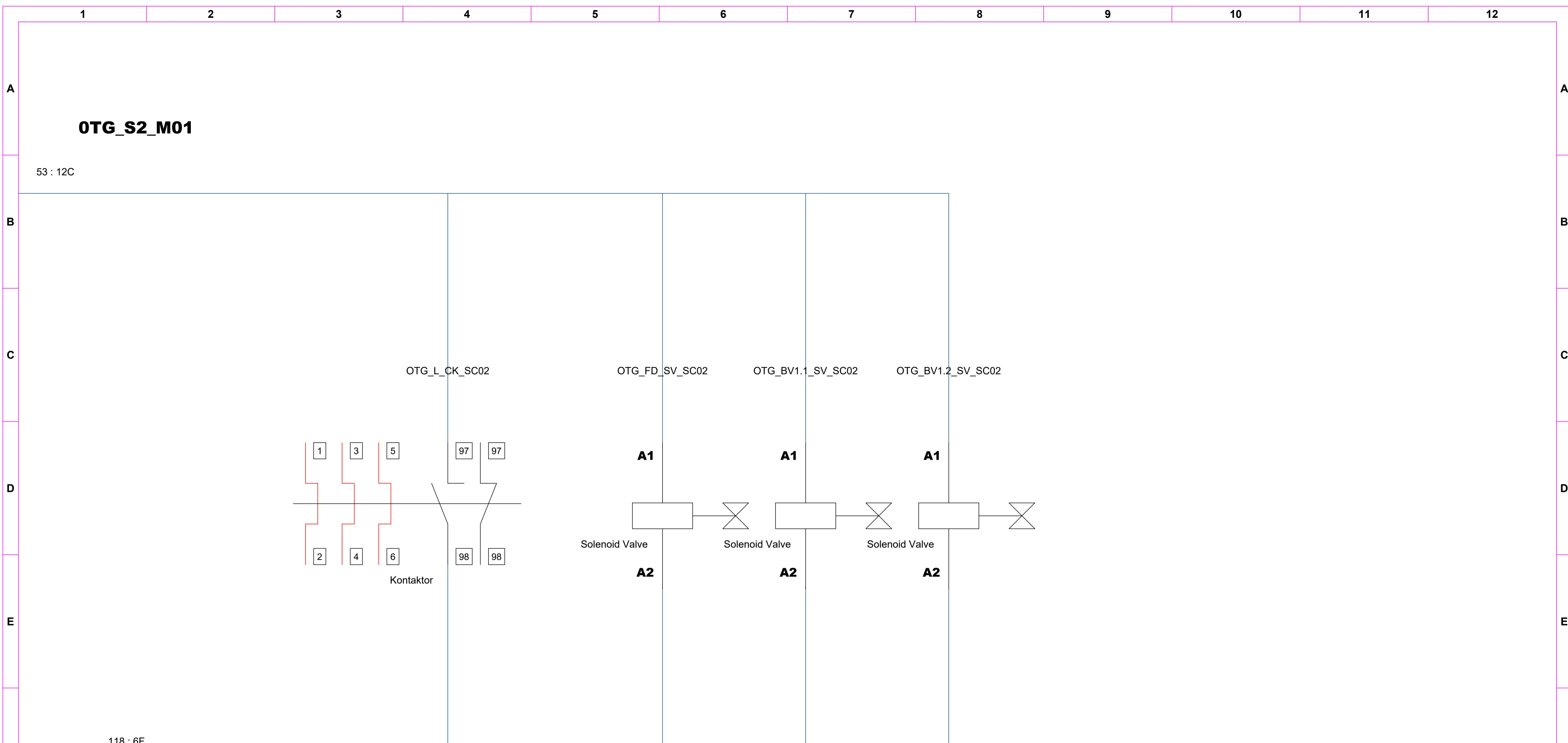
53 : 12 B

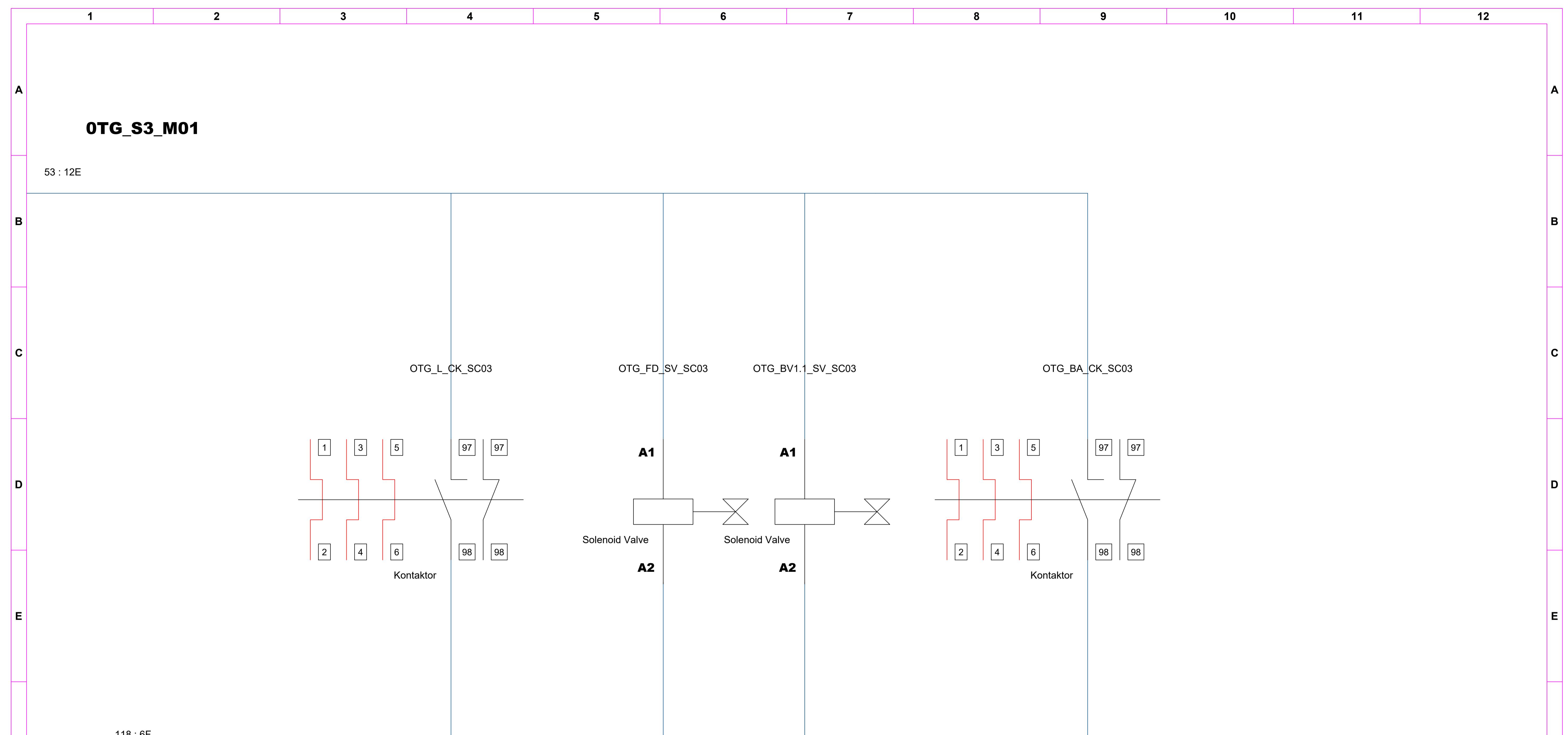


COM PLC

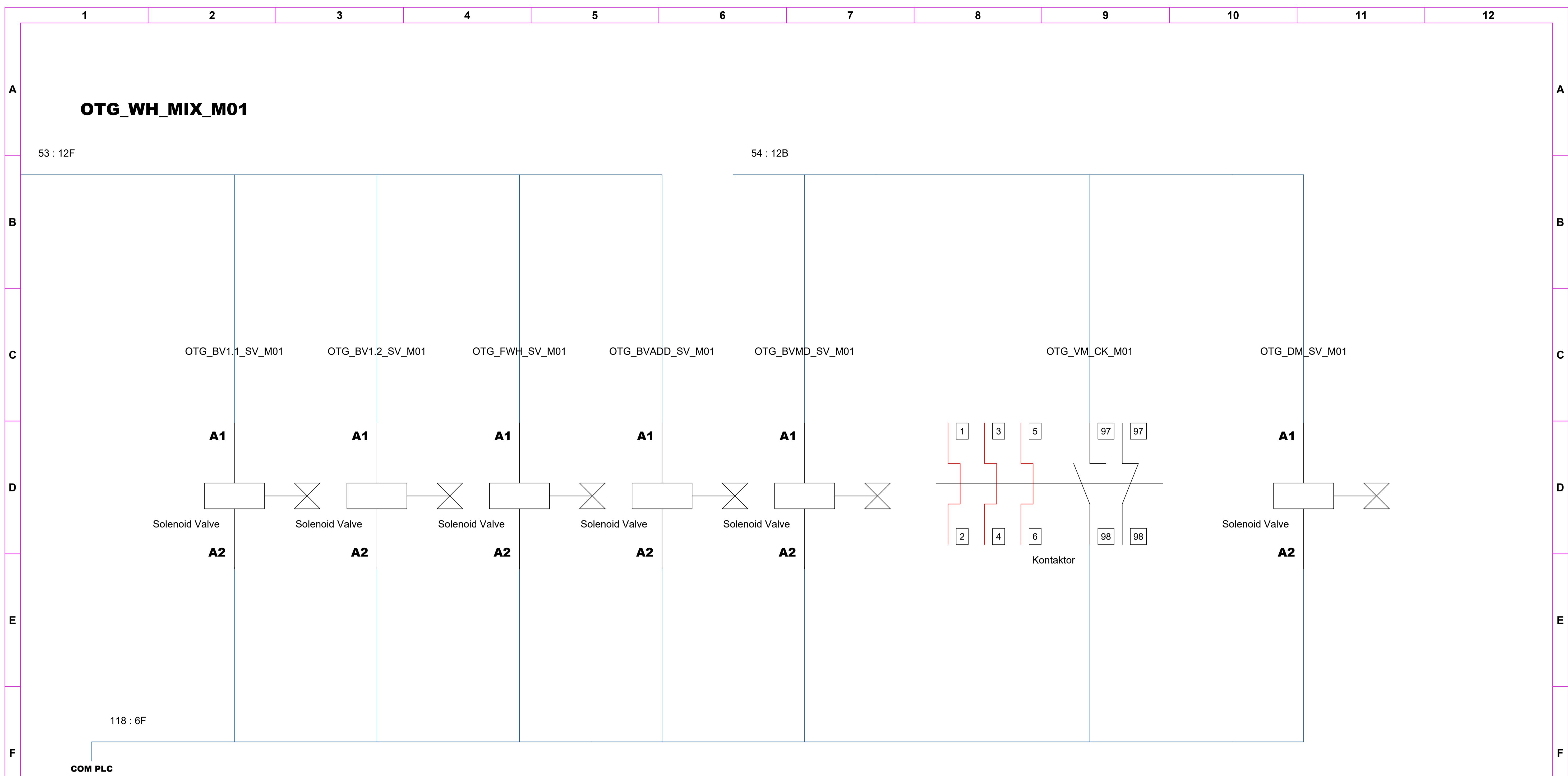
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr. Norm	WAMGROUP Saint-Gobain WAMGROUP Digital Output 1	Project Address Tile Grouting Sheet No.86 122 Sheet	H
	4	21-05-2025		Drawn	RAFLI				+
				Appr.					Sheet No.86
				Norm					122 Sheet

1 2 3 4 5 6 7 8 9 10 11 12

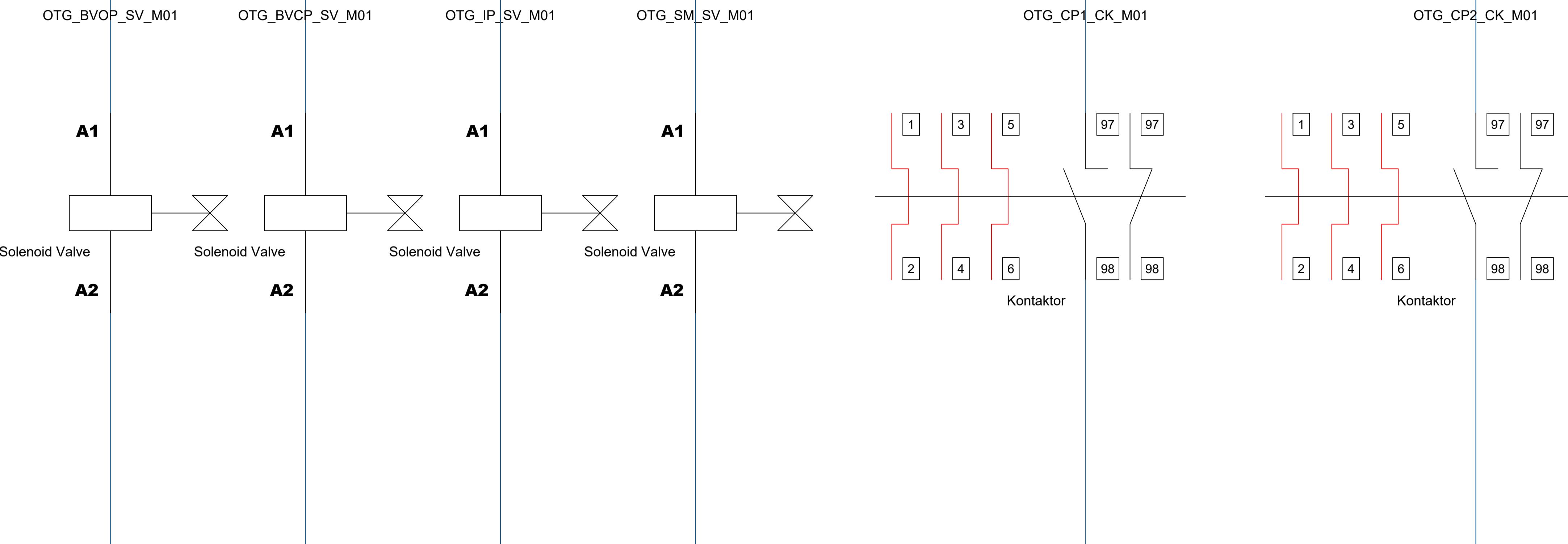


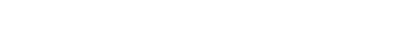


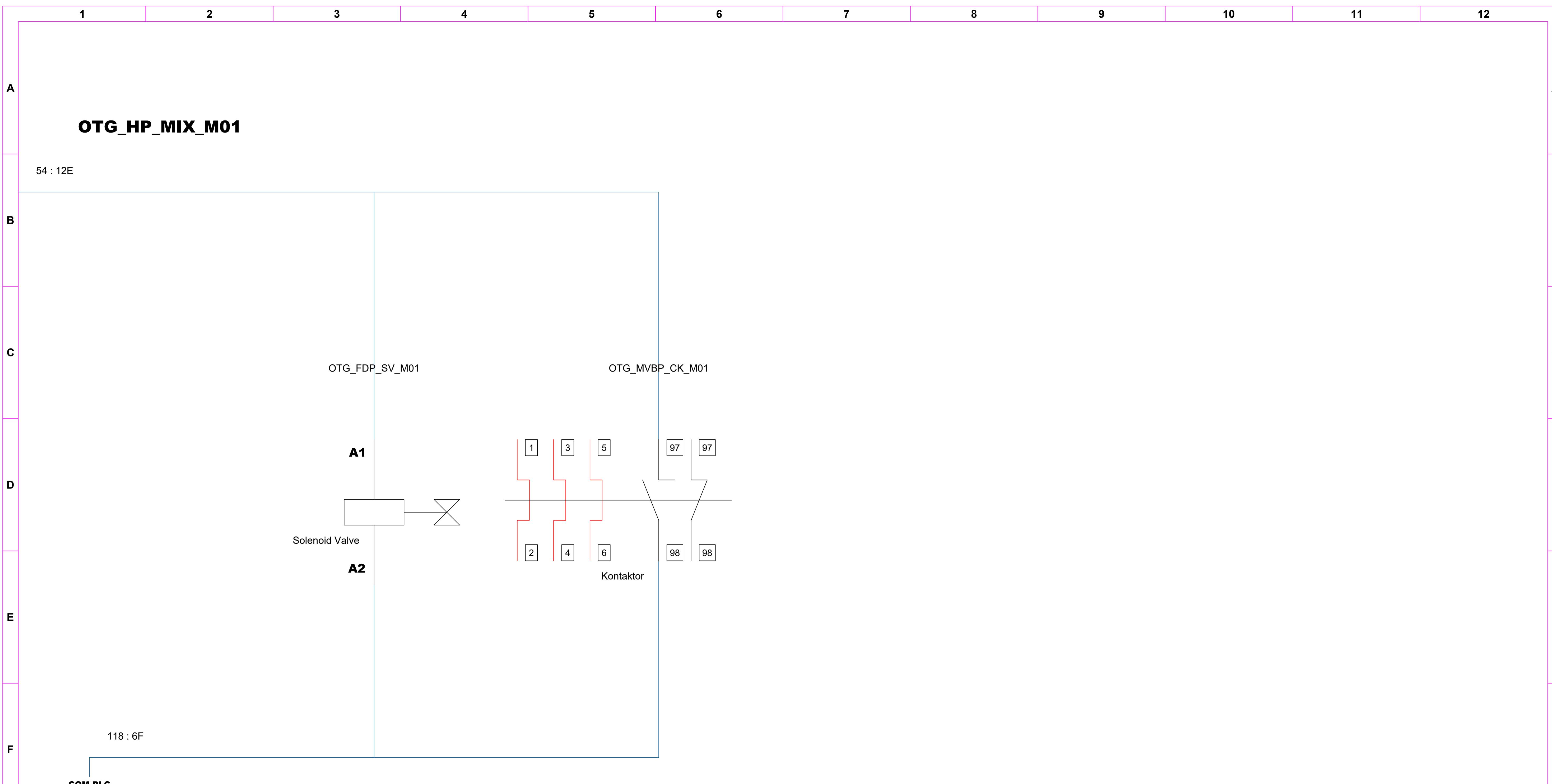
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title	Project		
	4	21-05-2025		Drawn	RAFLI				Group 0TG_S3_M01		
				Appr.					Address Tile Grouting		
				Norm					Digital Output 1		
Wiring Control Panel			122 Sheet								
	2	3	4	5	6	7	8	9	10	11	12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 MU mortar utama SAINT-GOBAIN	Title	Project		H			
4	21-05-2025			Drawn	RAFLI					+				
				Appr.						Sheet No.89				
				Norm						122 Sheet				
						Wiring Control Panel								
						Group OTG_WH_MIX_M01								
						Address Tile Grouting								
						Digital Output 2								



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	  Group OTG_MIX_M01 Digital Output 2	Title	Project	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.90
				Norm	Wiring Control Panel					122 Sheet



H	Rev.	Date	Remarks	Date	17-10-2
	4	21-05-2025		Drawn	RAFL
				Appr.	
				Norm	

P.T. CIPTA MORTAR UTAM



T

Group OTG_HP_MIX_M01

Digital Output 2

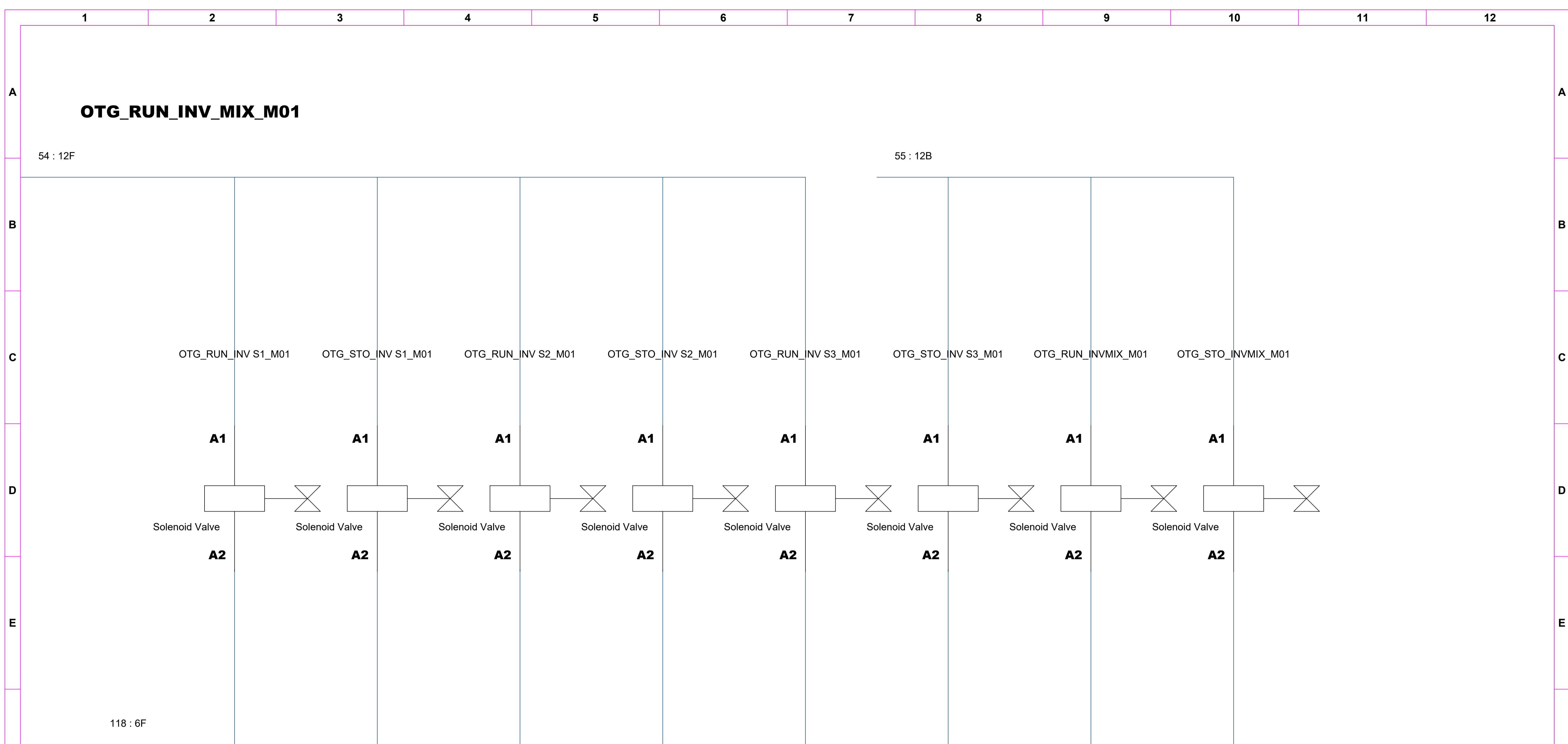


WAMGRO

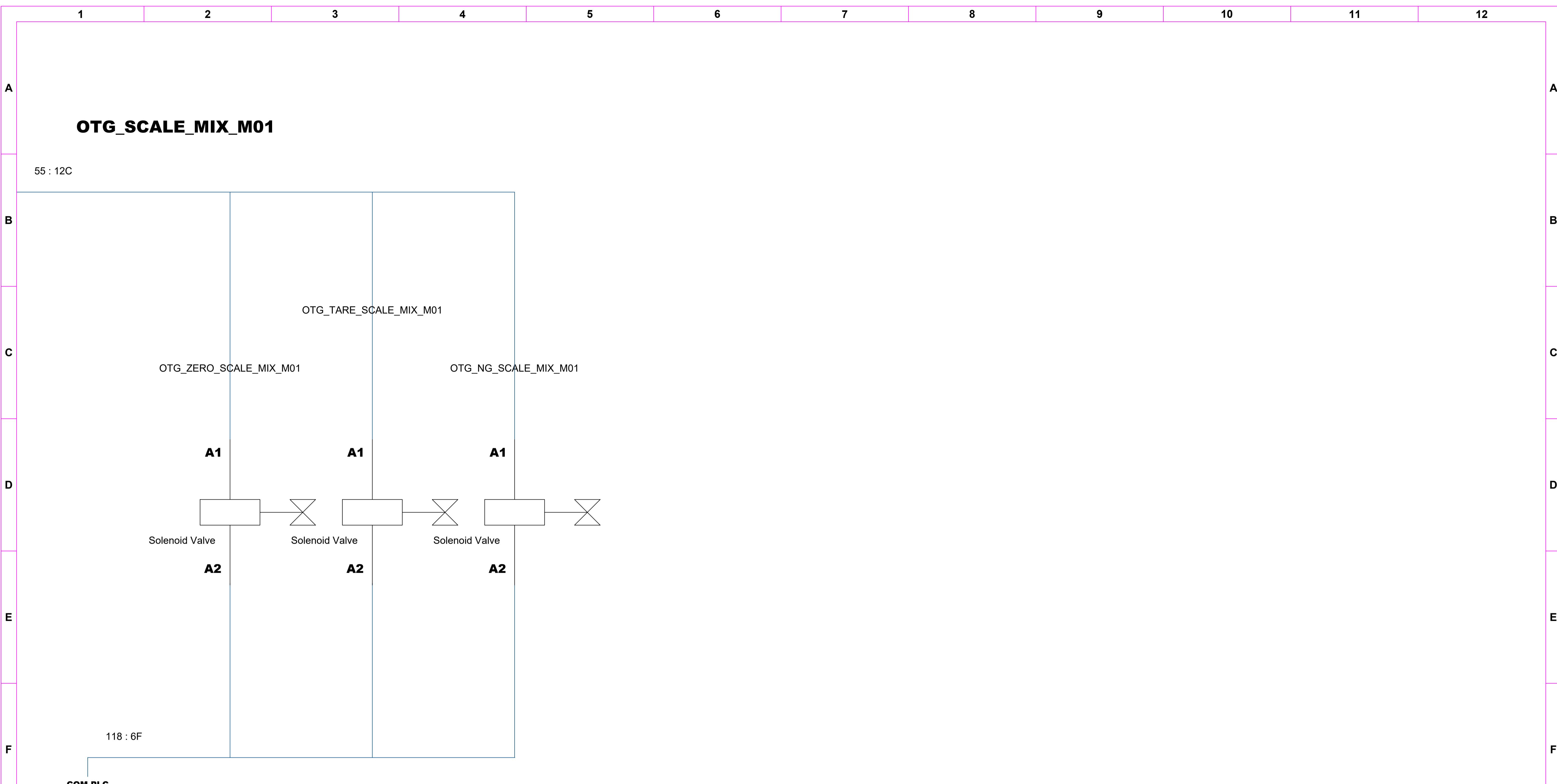
Project

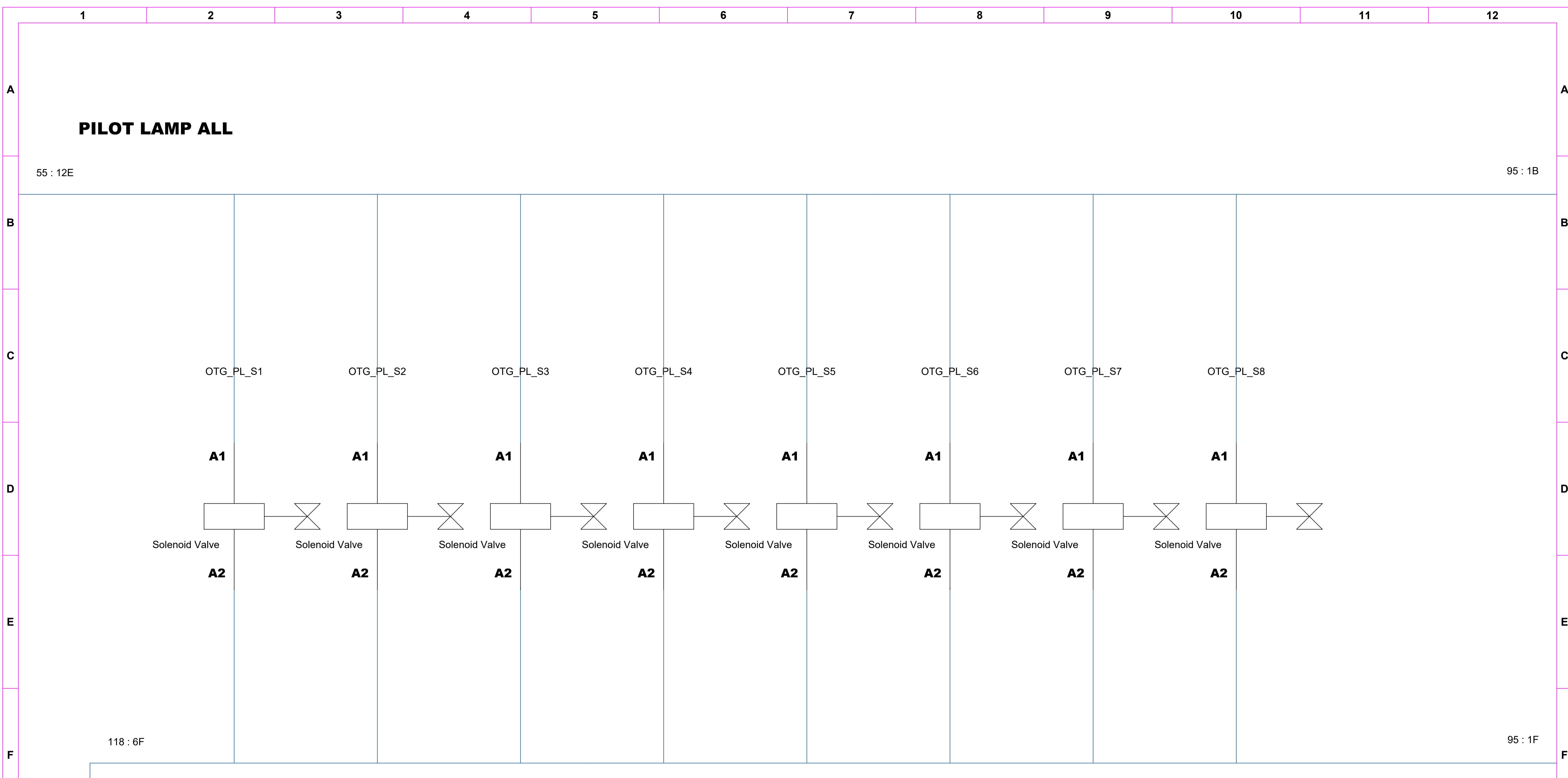
Address Tile Grouting

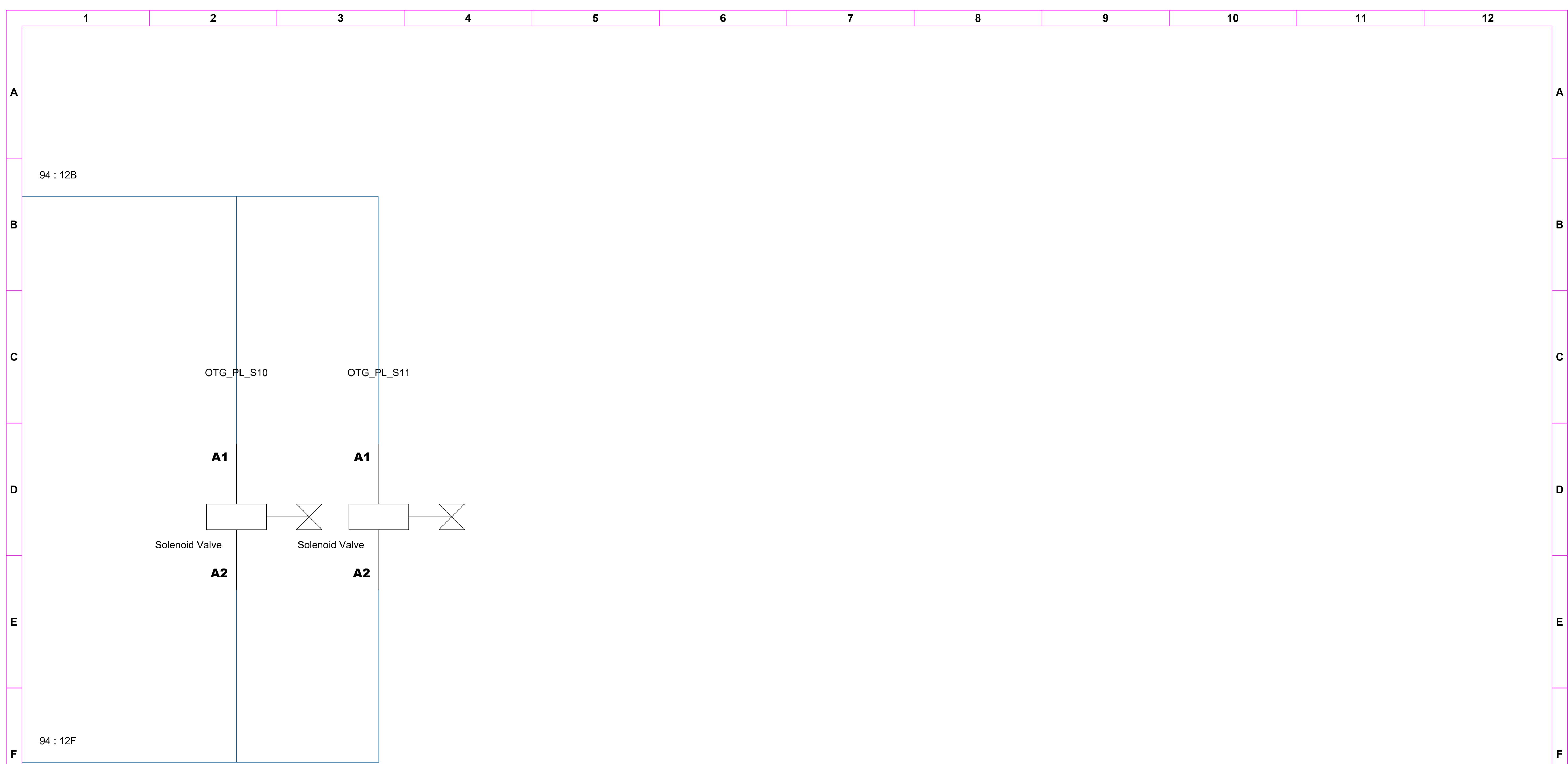
Sheet No.91



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title WAMGROUP® Group OTG_RUN_INV_MIX_M01 Address Tile Grouting Digital Output 3 Wiring Control Panel	Project + Sheet No.92 122 Sheet	H
4	21-05-2025			Drawn	RAFLI				
				Appr.					
				Norm					







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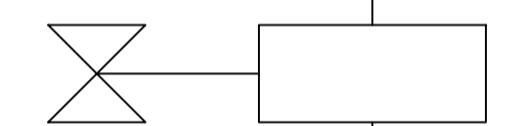
Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 MU mortar utama SAINT-GOBAIN	Title	WAMGROUP	Project	
4	21-05-2025		Drawn	RAFLI			Group OXP_S03.2_M02	Digital Output 1	Pro-X Batching	+
			Appr.							Sheet No.96
			Norm		Wiring Control Panel					122 Sheet

OXP_S03.2_M02

56 : 1A

OXP_BV1.1_SV_SC03.2

A1



Solenoid Valve

A2

118 : 6F

COM PLC

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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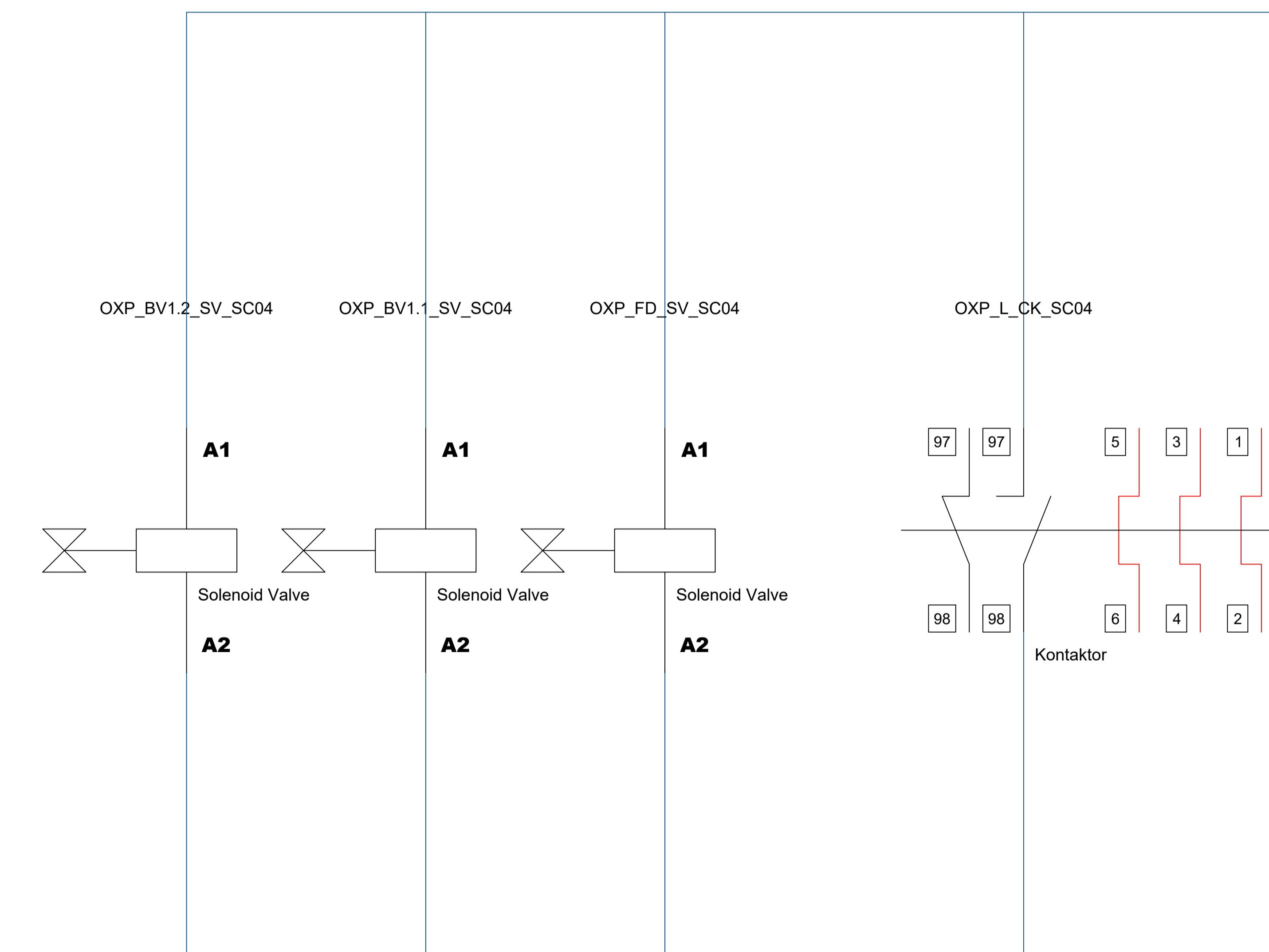
F

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OXP_S04_M02

56 : 1B

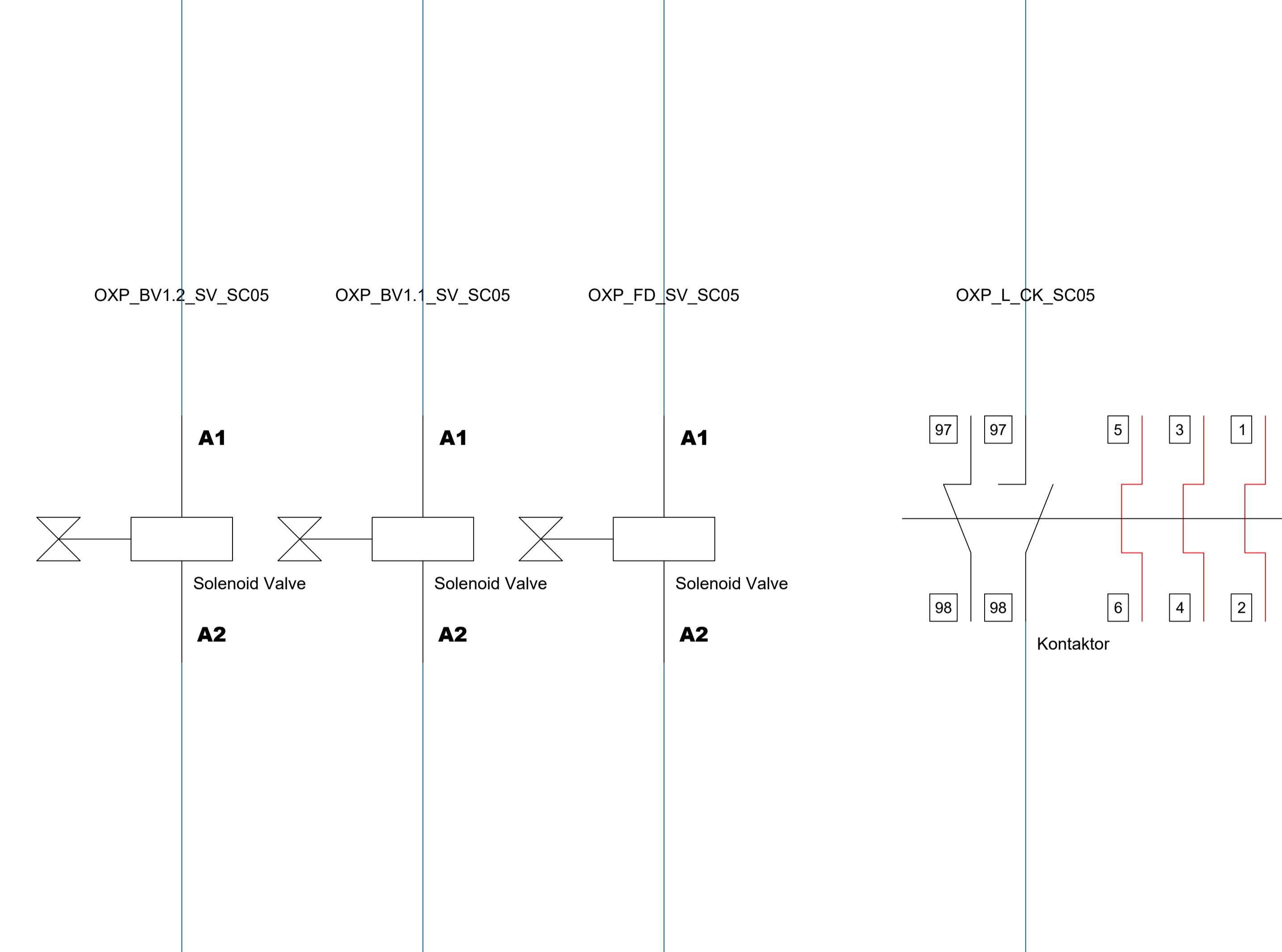


118 : 6F

COM PLC

Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr.	MU mortar utama SAINT-GOBAIN	Title Group OXP_S04_M02 Digital Output 1	Project Pro-X Batching	
4	21-05-2025			Drawn RAFLI					
				Norm					
									+ Sheet No.97 122 Sheet

2 3 4 5 6 7 8 9 10 11 12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title Group OXP_S05_M02 Digital Output 1	Project Pro-X Batching							
	4	21-05-2025		Drawn	RAFLI					+						
				Appr.						Sheet No.98						
				Norm						122 Sheet						
						Wiring Control Panel										
						2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

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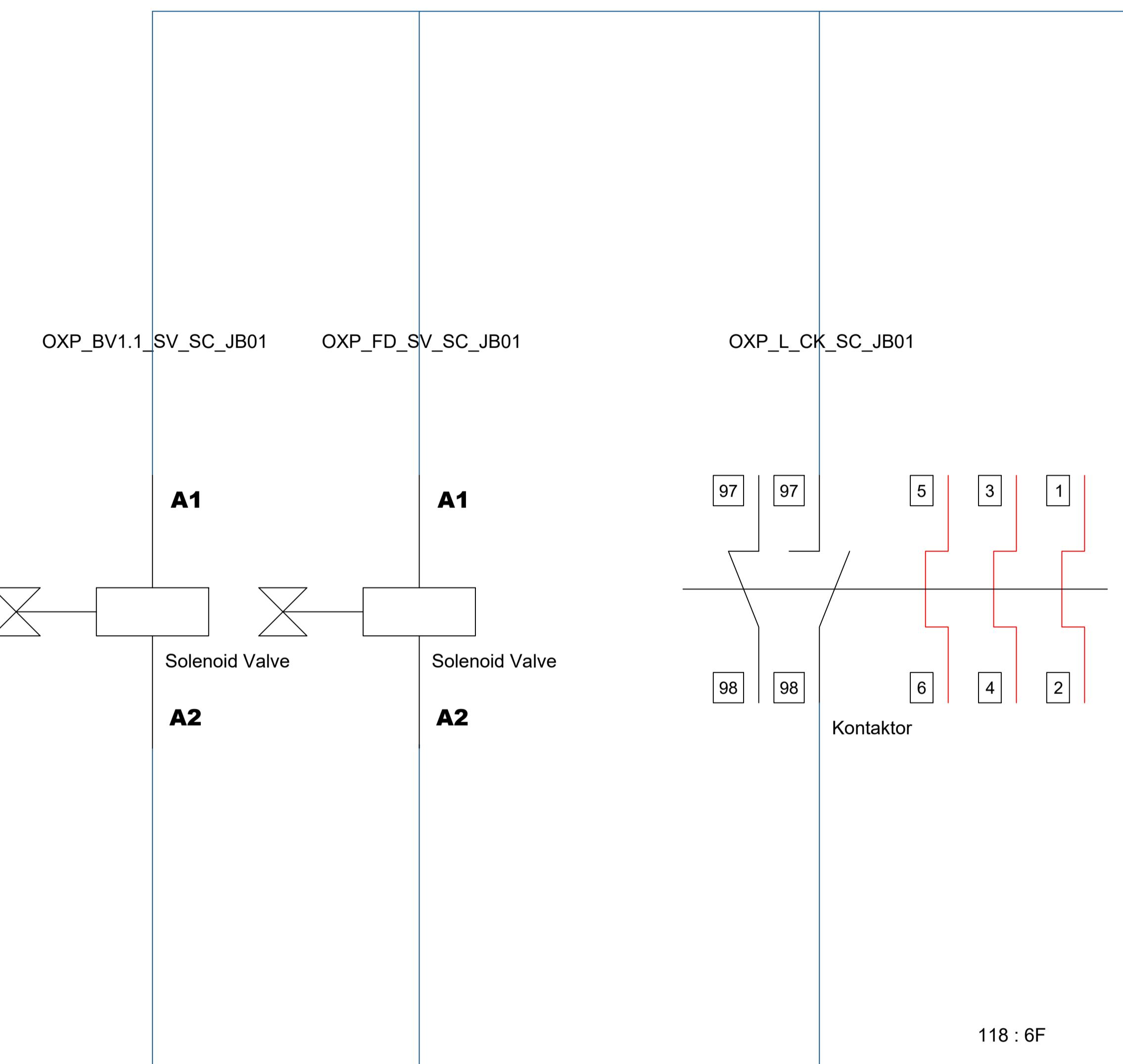
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OXP_JB01_M02

56 : 1D



OXP_BV1.1_SV_SC_JB01 OXP_FD_SV_SC_JB01

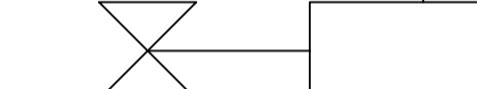
OXP_L_CK_SC_JB01

A1

A2

A1

A2



Solenoid Valve

Solenoid Valve

118 : 6F

COM PLC

Rev.	Date	Remarks	Date	Drawn	RAFLI	P.T. CIPTA MORTAR UTAMA	WAMGROUP	Project	
4	21-05-2025			Appr.				Pro-X Batching	+
				Norm		Wiring Control Panel			Sheet No.99
									122 Sheet

Group OXP_JB01_M02

Digital Output 1

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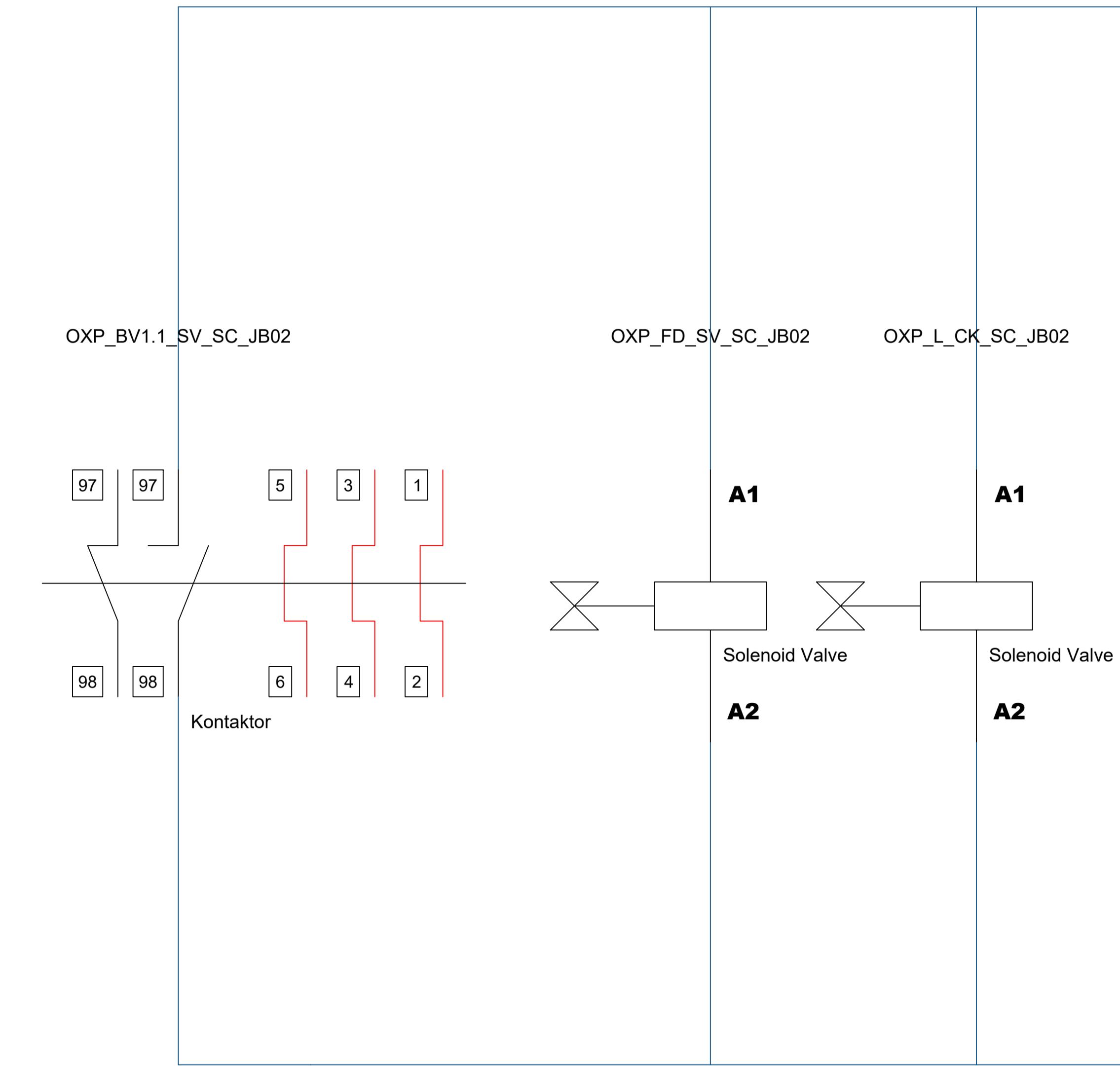
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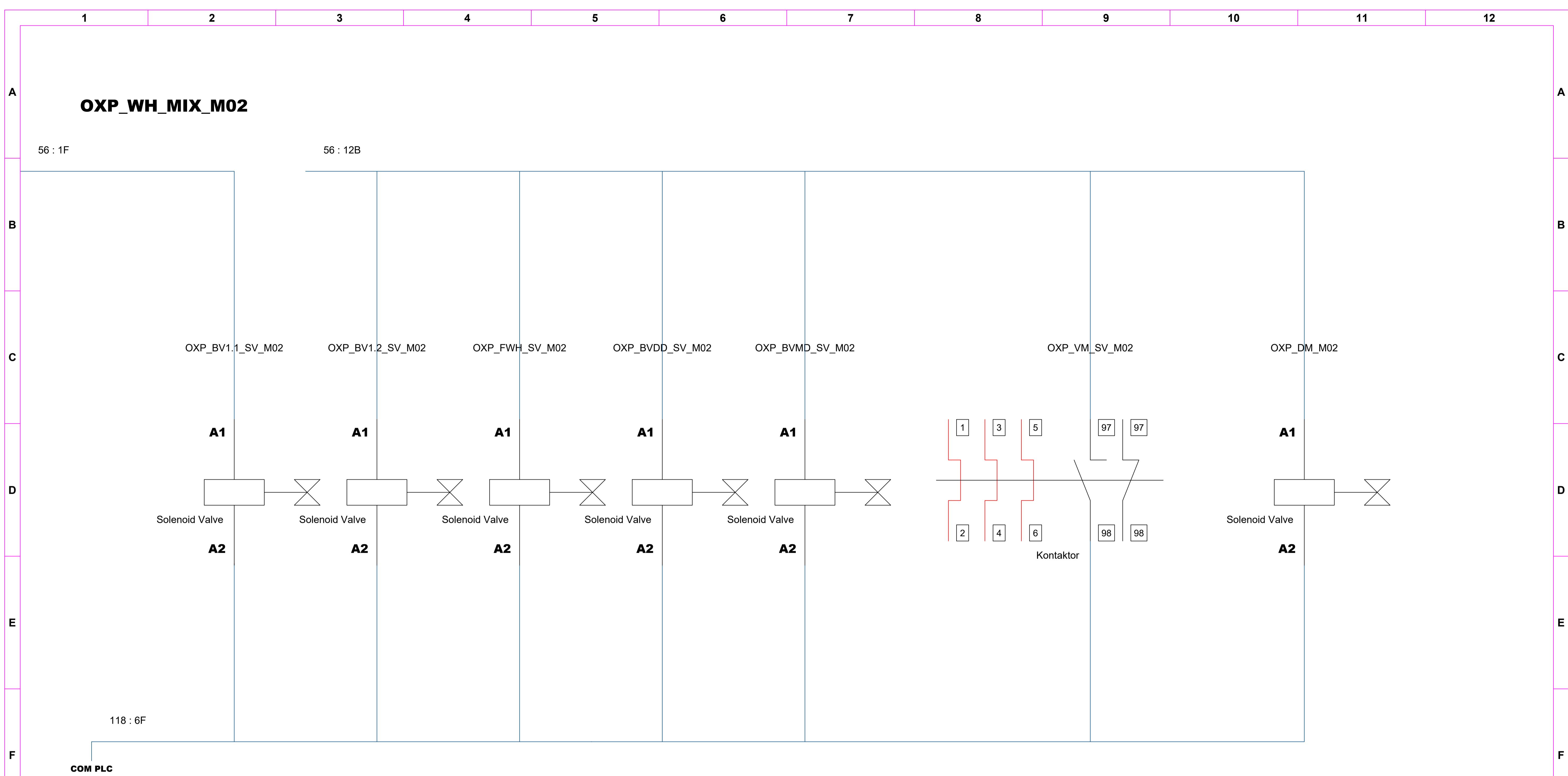
4

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN			Title Group OXP_JB02_M02 Digital Output 1	Project Pro-X Batching		
	4	21-05-2025		Drawn	RAFLI						+	
				Appr.							Sheet No.100	
				Norm	Wiring Control Panel						122 Sheet	
	1	2	3	4	5	6	7	8	9	10	11	12



1 2 3 4 5 6 7 8 9 10 11 12

OXP_MIX_M02

56 : 12D

B

OXP_BVOP_SV_M02 OXP_BVCP_SV_M02 OXP_IP_SV_M02 OXP_SM_SV_M02

A1

A1

A1

A1

Solenoid Valve Solenoid Valve Solenoid Valve Solenoid Valve

A2

A2

A2

A2

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118 : 6F

COM PLC

G

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP [®]	Title Group OXP_MIX_M02 Digital Output 1	Project Pro-X Batching	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.102
				Norm		Wiring Control Panel				122 Sheet

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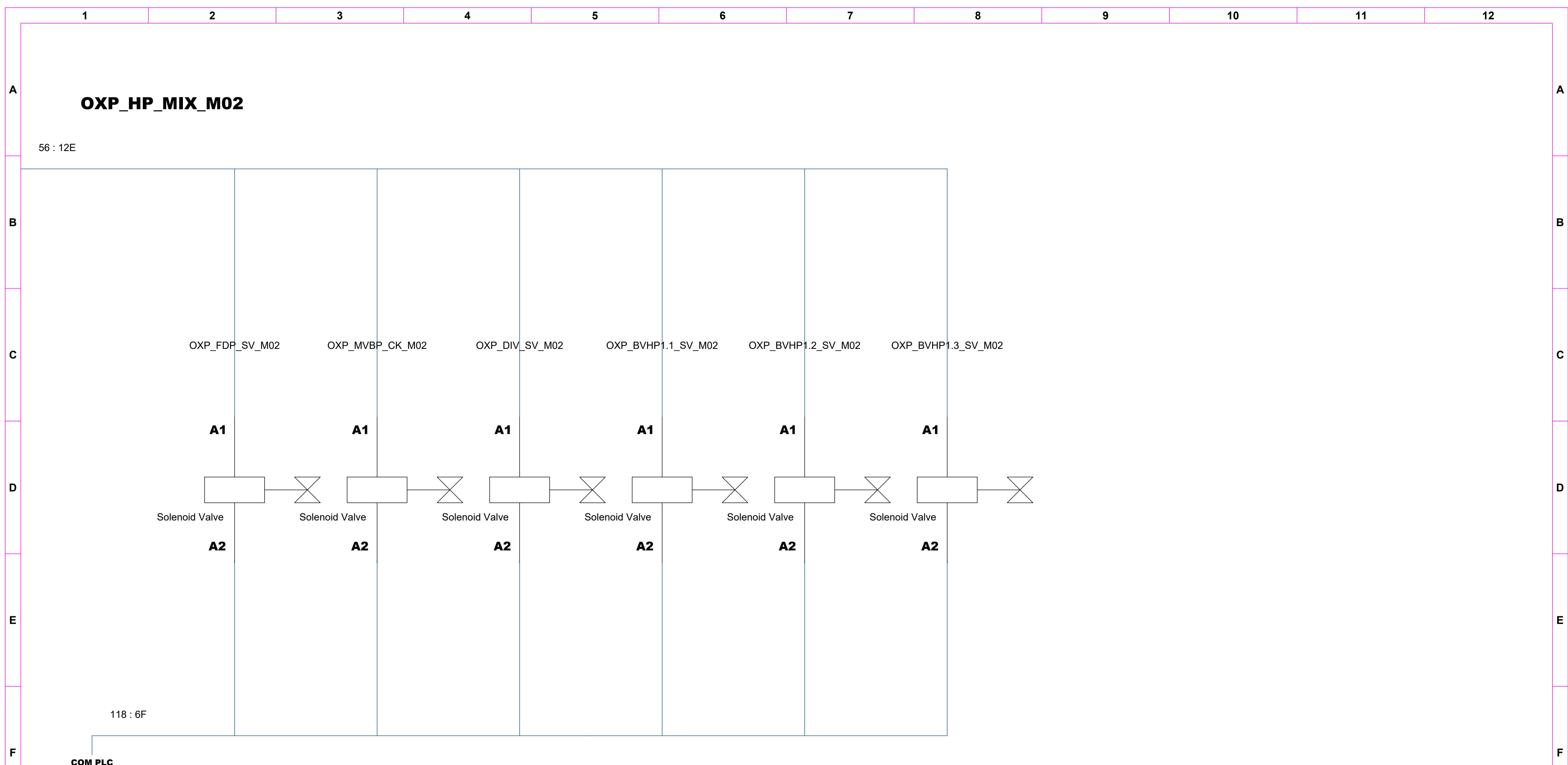
D

E

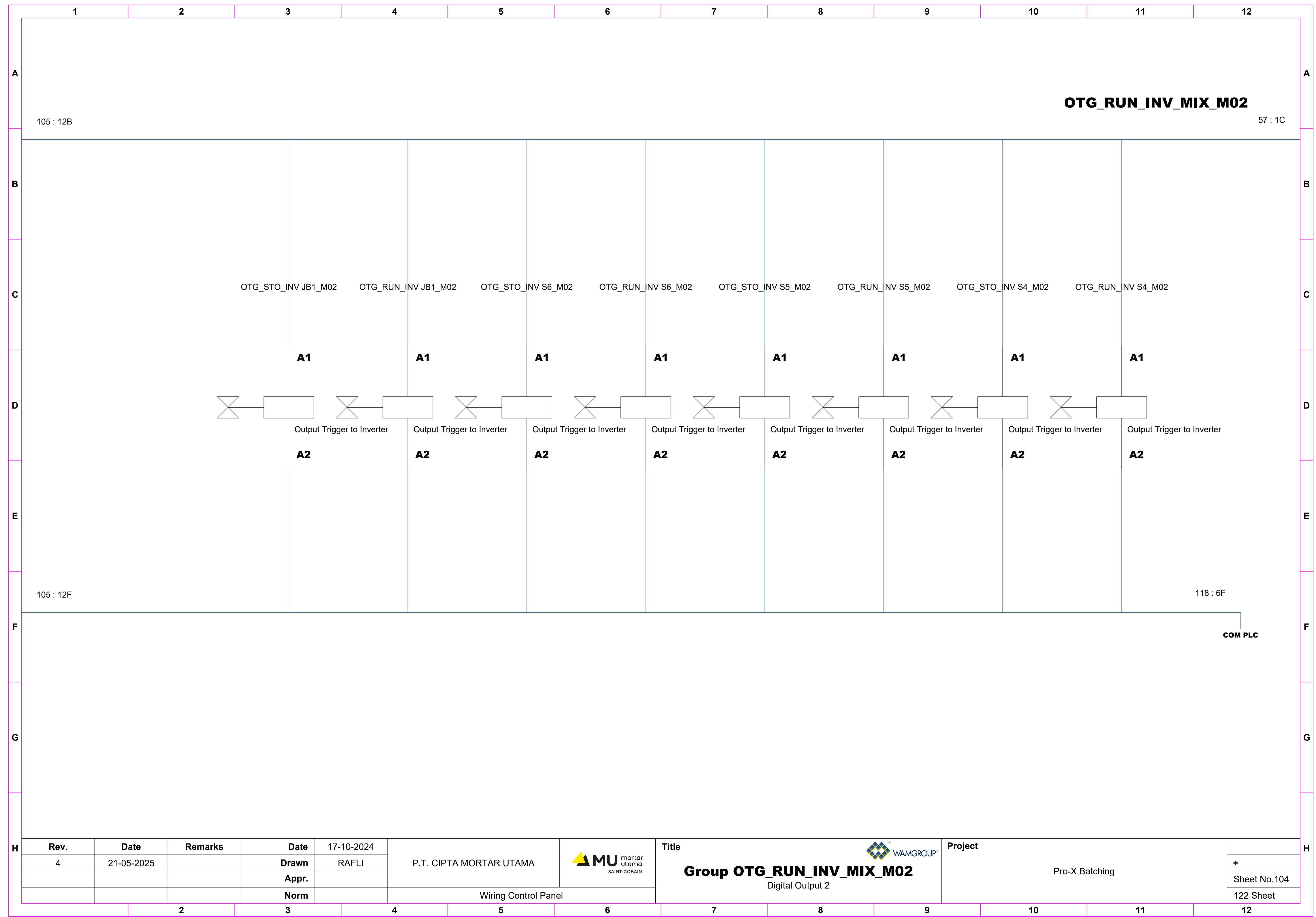
F

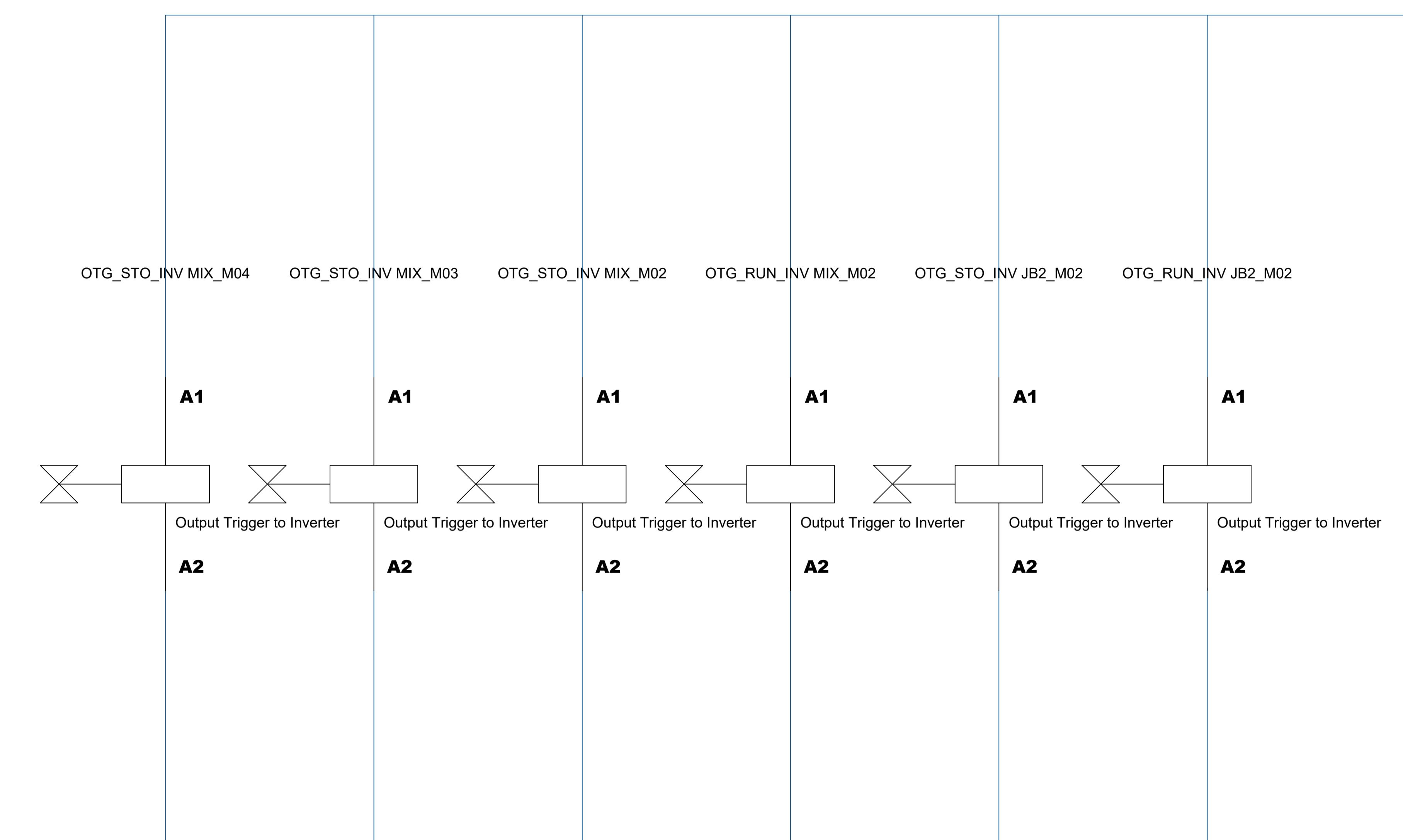
G

H



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title	Project		H	
	4	21-05-2025		Drawn	RAFLI				+		
				Appr.					Sheet No.103		
				Norm					122 Sheet		
1	2	3	4	5	6	7	8	9	10	11	12





H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	AMU <small>mortar utama SAINT-GOBAIN</small>	Title Group OTG_RUN_INV_MIX_M02 Digital Output 2	Project Pro-X Batching	
	4	21-05-2025	Drawn	RAFLI						
			Appr.							
			Norm			Wiring Control Panel				+ Sheet No.105 122 Sheet

OTG_SCALE_MIX_M02

57 : 1B

57 : 12B

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OTG_ZERO_SCALE_MIX_M02

OTG_TARE_SCALE_MIX_M02

OTG_NG_SCALE_MIX_M02_DIV_SV_M02

A1

A1

A1

Zero Indikator

Tare Indikator

Net Gross Indikator

A2

A2

A2

118 : 6F

COM PLC

118 : 6F

COM PLC

118 : 6F

COM PLC

COM PLC

COM PLC

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COM PLC

COM PLC

Rev.	Date	Remarks	Date	Drawn	Appr.	P.T. CIPTA MORTAR UTAMA	Title	Project	
4	21-05-2025			RAFLI			AMU mortar SAINT-GOBAIN	WAMGROUP	+ Sheet No.106
							Group OTG_SCALE_MIX_M02	Digital Output 2	122 Sheet
				Norm		Wiring Control Panel		Pro-X Batching	

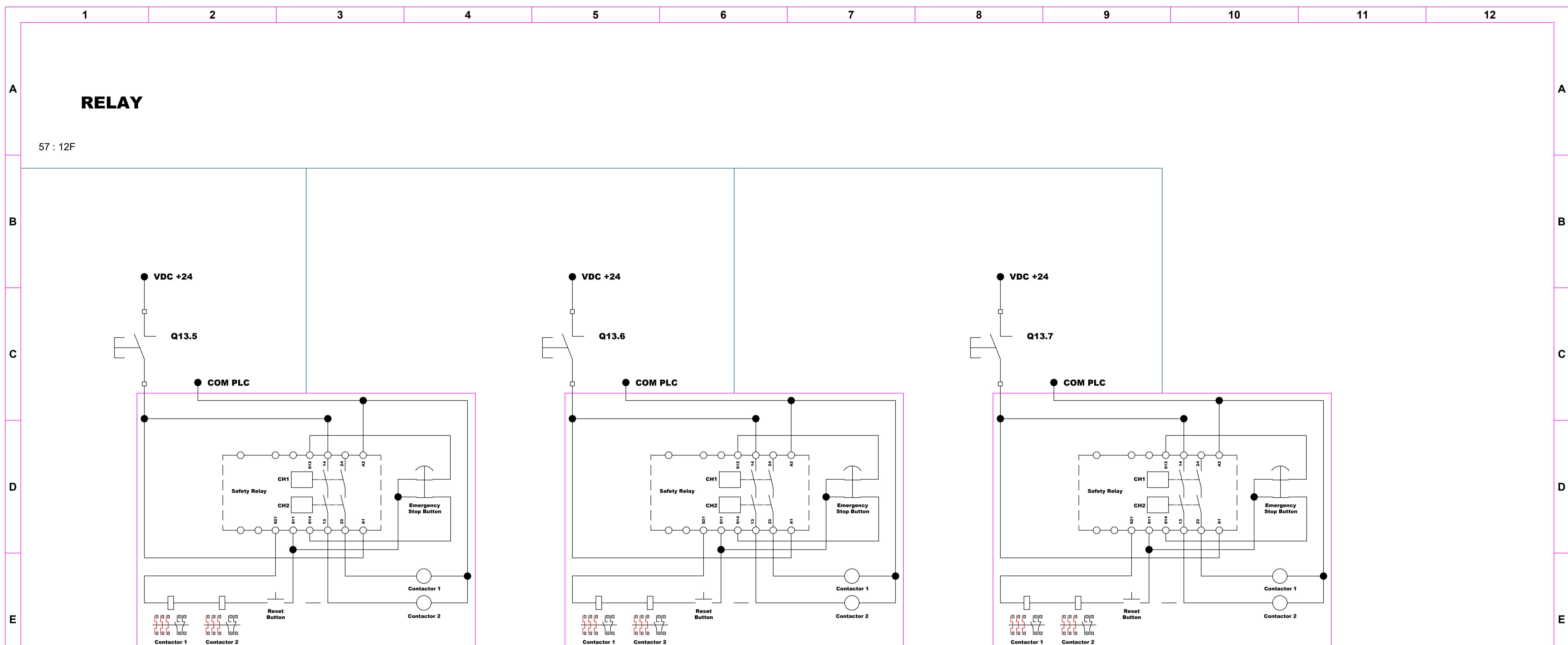
OTG_BV_PINCH_S1 OTG_BV_PINCH_S2 OTG_BV_PINCH_S3 OTG_BV_PINCH_S4 OTG_BV_PINCH_S5 OTG_BV_PINCH_S6 OTG_BV_PINCH_S7 OTG_BV_PINCH_S8 OTG_BV_PINCH_S9

Solenoid Valve Solenoid Valve

118 : 6F

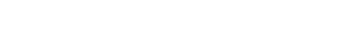
COM PLC

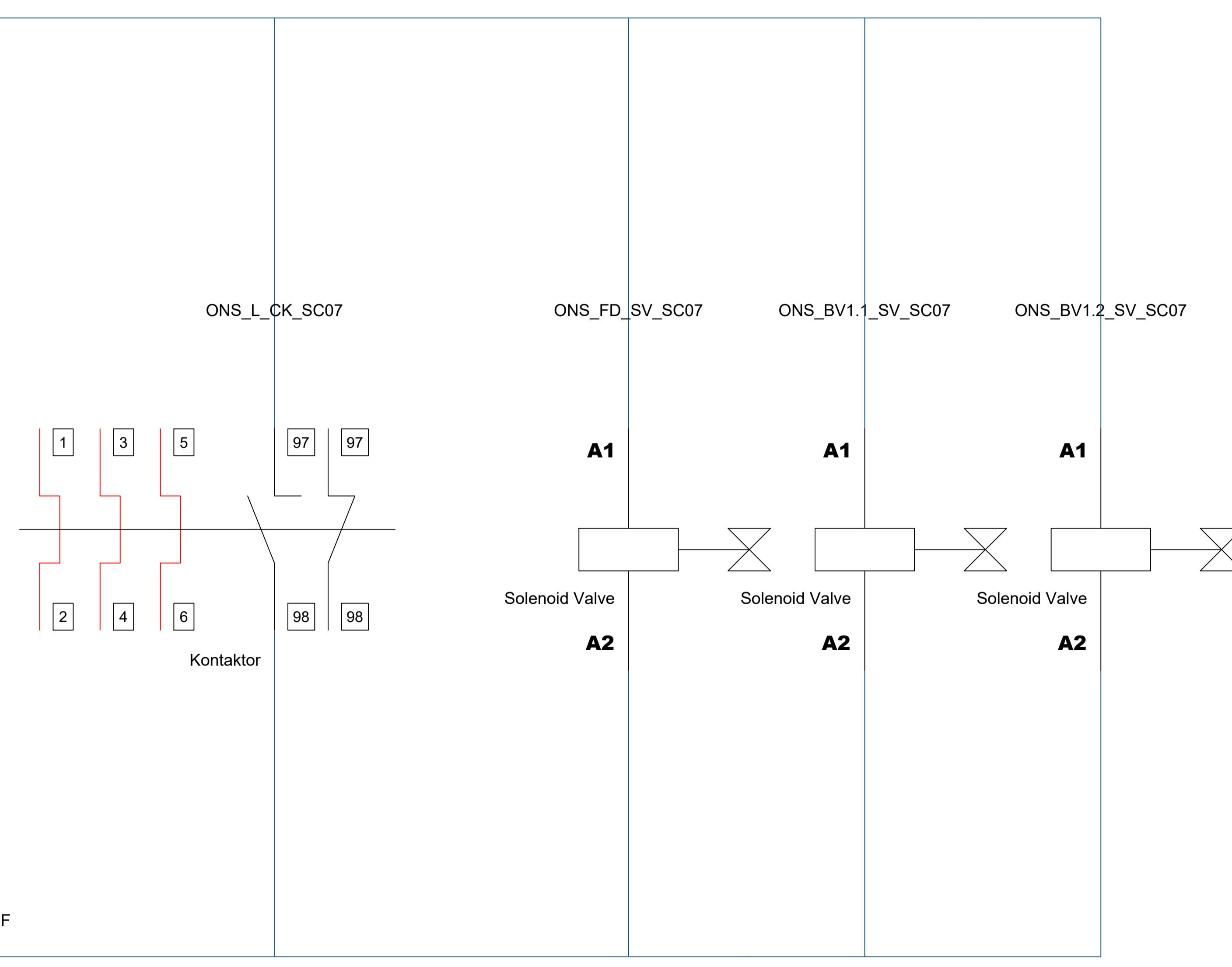
H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group OTG_PINCH_SILO Digital Output 2	Project Pro-X Batching		H
	4	21-05-2025		Drawn	RAFLI						
			Appr.								
			Norm			Wiring Control Panel				+ Sheet No.107 122 Sheet	



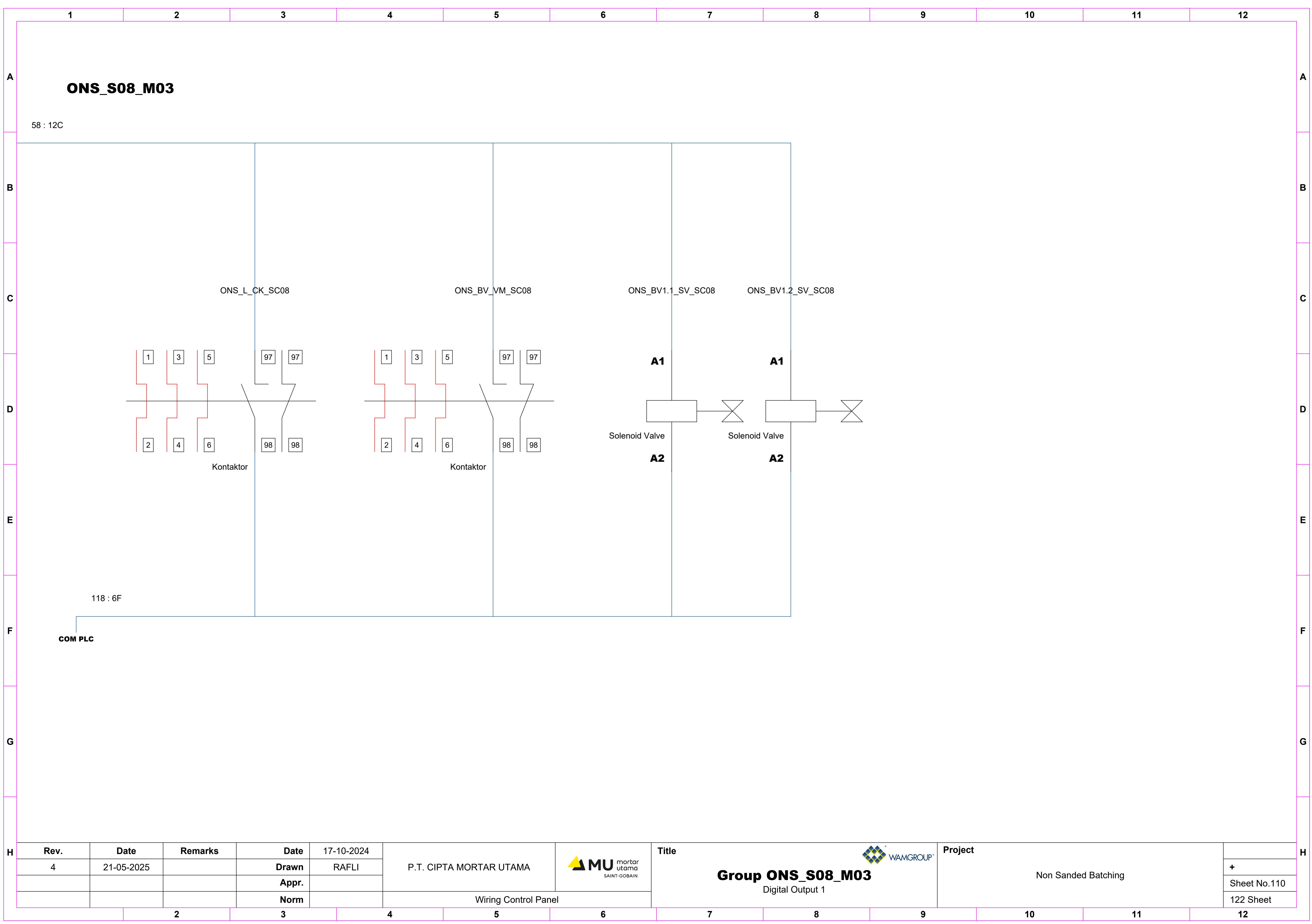
118 : 6

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 MU mortar utama SAINT-GOBAIN	Title	 WAMGROUP	Project	H
4	21-05-2025			Drawn	RAFLI						+
				Appr.							Sheet No.108
				Norm							122 Sheet
						Wiring Control Panel					
1	2	3	4	5	6	7	8	9	10	11	12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 WAMGROUP® Group ONS_S07_M03 Non Sanded Batching Digital Output 1	Title	Project	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.109
				Norm	Wiring Control Panel					122 Sheet

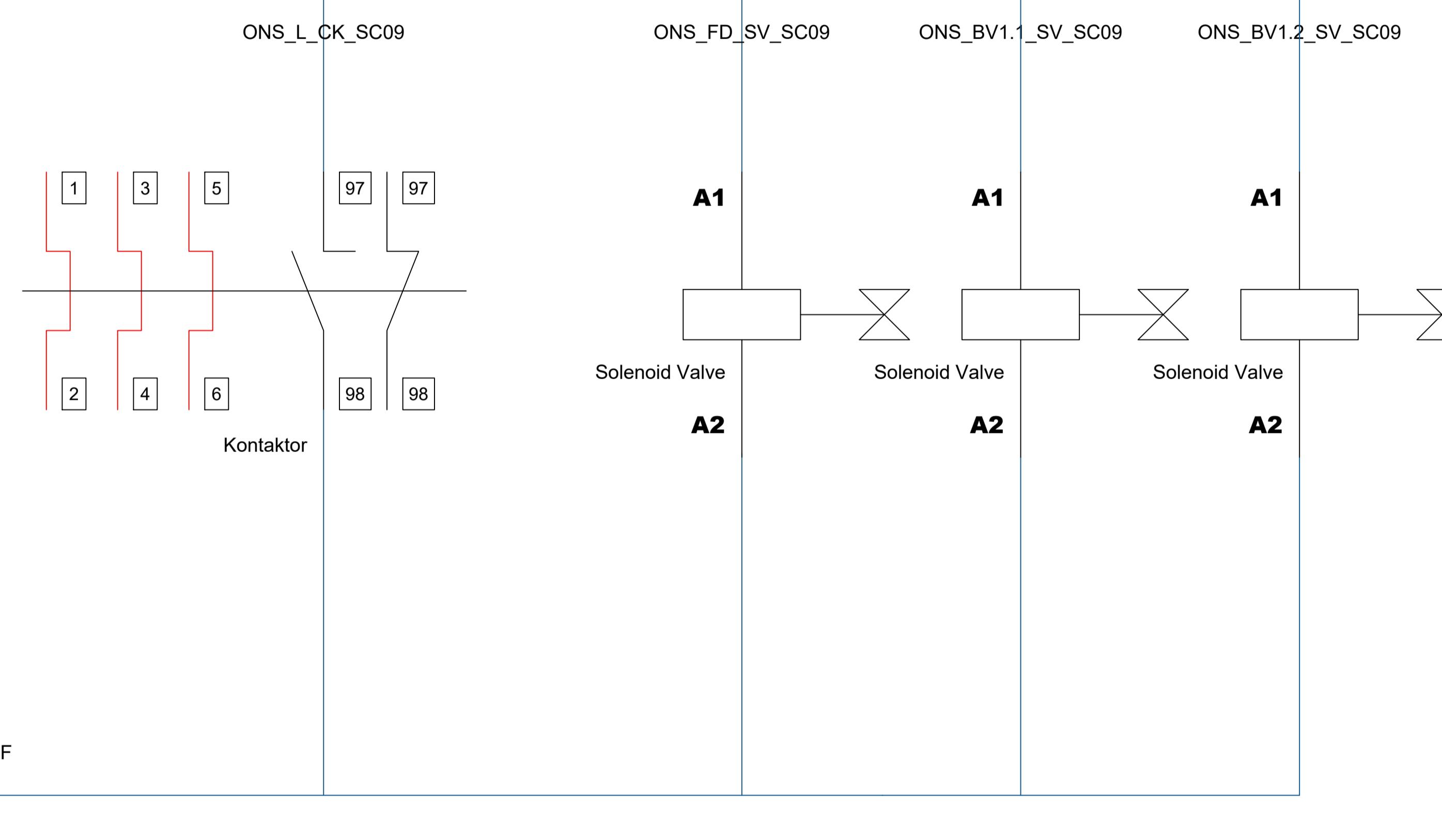


1 2 3 4 5 6 7 8 9 10 11 12

ONS_S09_M03

58 : 12E

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group ONS_S09_M03 Digital Output 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+
			Appr.						Sheet No.111
			Norm		Wiring Control Panel				122 Sheet

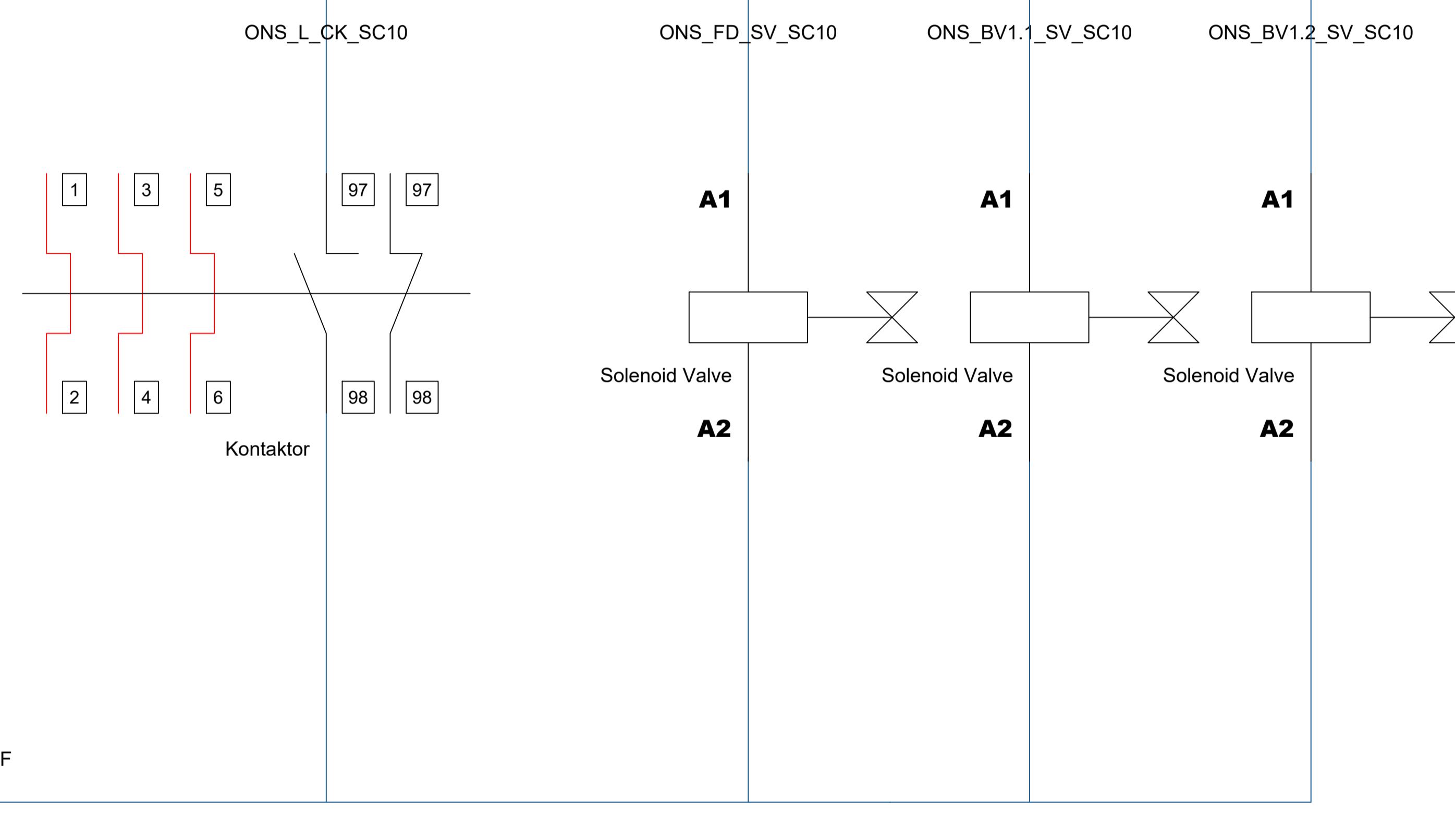
1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

ONS_S10_M03

58 : 12F

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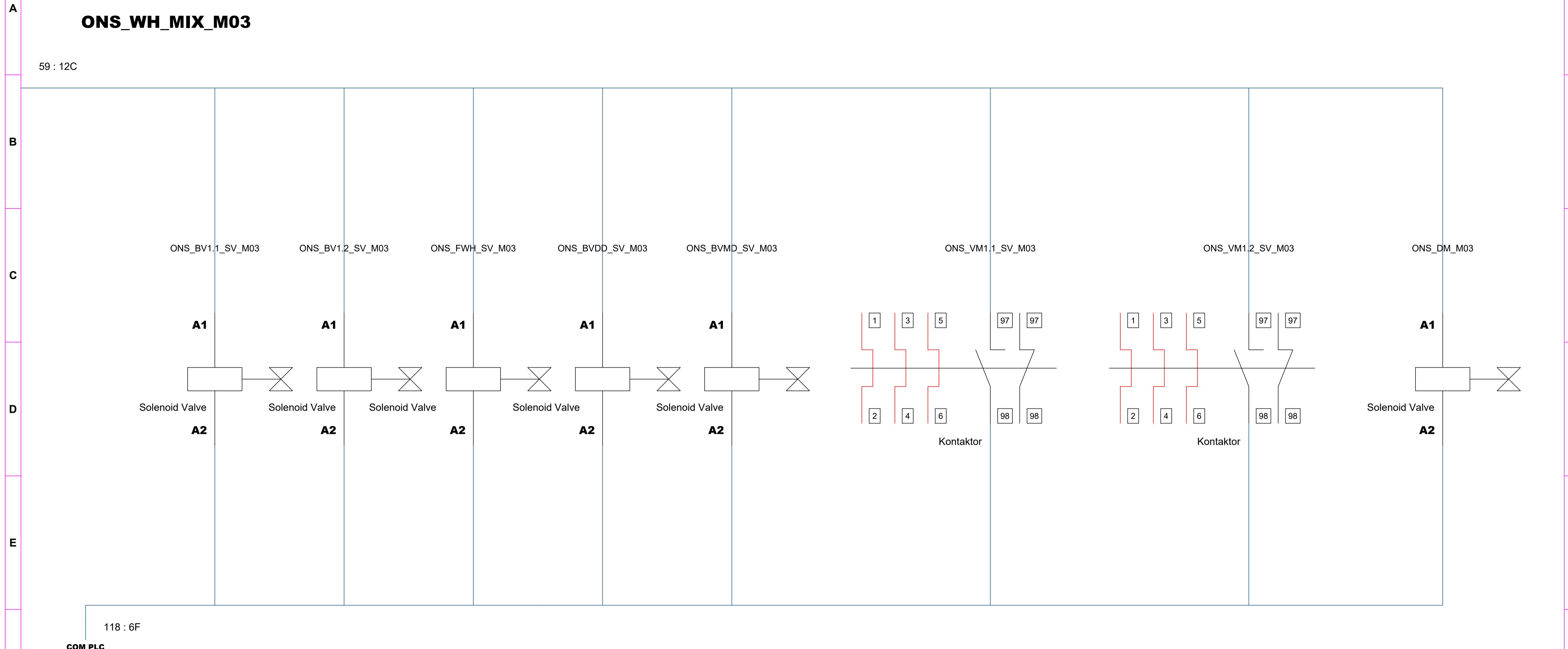
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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group ONS_S10_M03 Digital Output 1	Project Non Sanded Batching	
4	21-05-2025		Drawn	RAFLI					+ Sheet No.112
			Appr.						122 Sheet
			Norm		Wiring Control Panel				

1 2 3 4 5 6 7 8 9 10 11 12

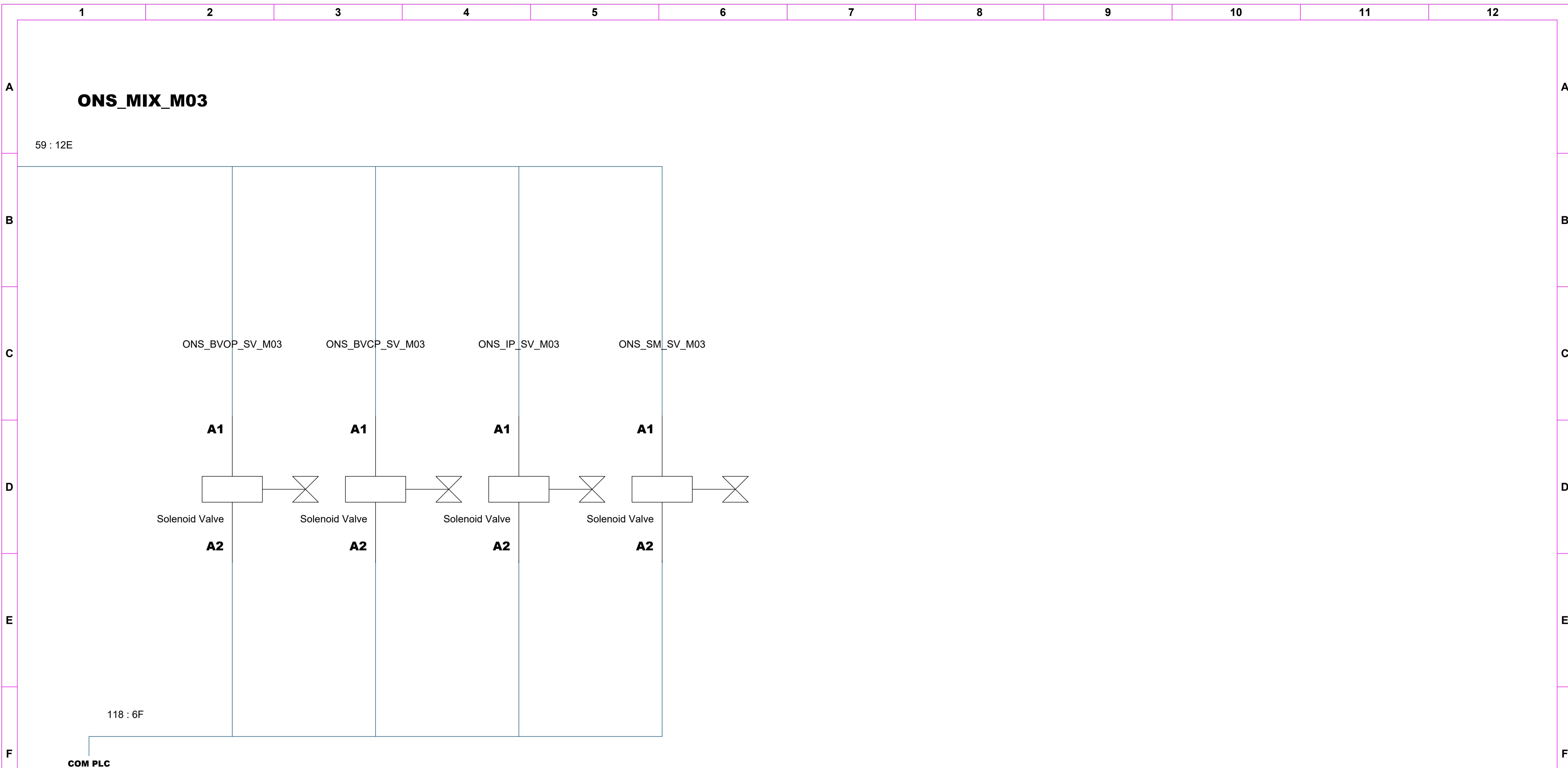
1 2 3 4 5 6 7 8 9 10 11 12



118 : 6F

COM PLC

H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title Group ONS_WH_MIX_M03 Digital Output 2	Project Non Sanded Batching	H	
4	21-05-2025		Drawn	RAFLI	+						
			Appr.		Sheet No.113						
			Norm		Wiring Control Panel					122 Sheet	
	2	3	4	5	6	7	8	9	10	11	12



H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA SAINT-GOBAIN	 	Title	Project		
	4	21-05-2025		Drawn	RAFLI					+	
				Appr.						Sheet No.114	
				Norm						122 Sheet	
Wiring Control Panel						Group ONS_MIX_M03 Digital Output 2					
	2	3	4	5	6	7	8	9	10	11	12

1 2 3 4 5 6 7 8 9 10 11 12

ONS_HP_MIX_M03

59 : 12F

60 : 12B

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ONS_MX3_OC1_KC_M03

ONS_MX3_OC2_KC_M03

ONS_MX3_OC3_KC_M03

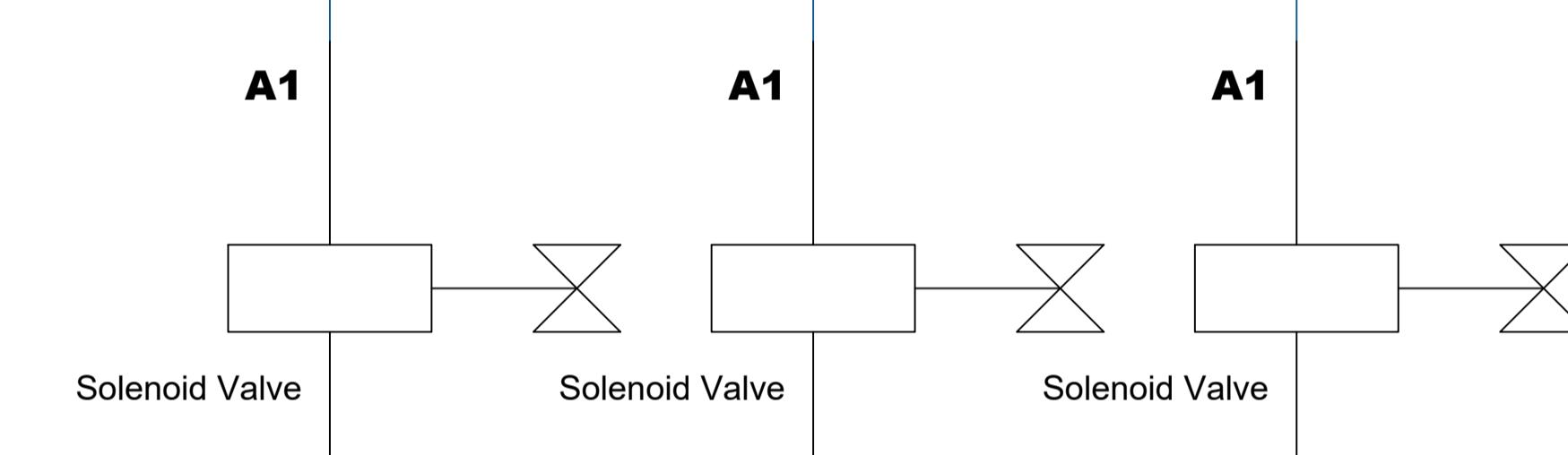
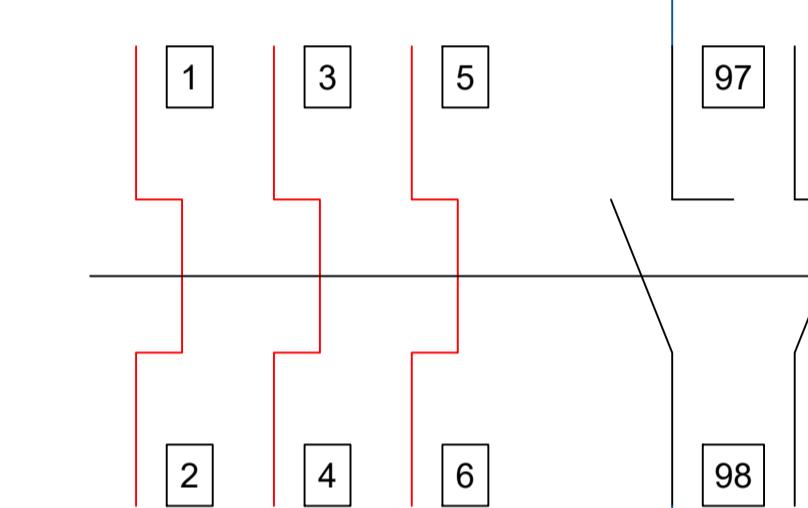
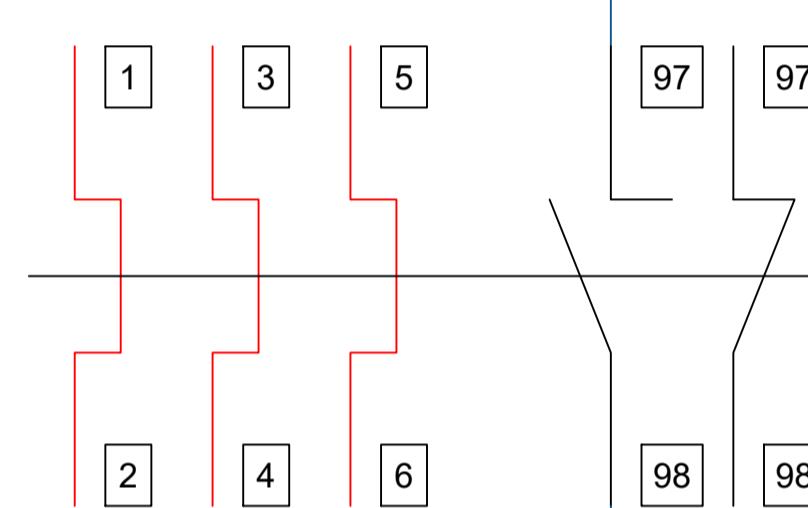
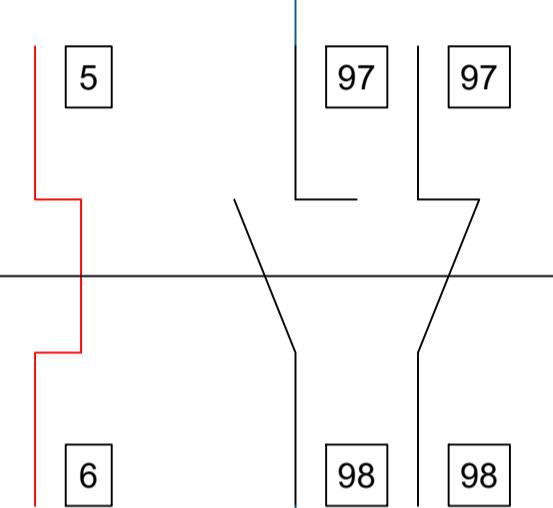
ONS_FUH_SV_M03

ONS_MX3_VM1.1_SV_M03

ONS_MX3_VM1.2_SV_M03

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118 : 6F

COM PLC

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Rev.	Date	Remarks	Date	Drawn	Appr.	Title	Project	
4	21-05-2025			RAFLI		P.T. CIPTA MORTAR UTAMA	WAMGROUP	+ Sheet No.115 122 Sheet
						SAINT-GOBAIN		
			Norm			Wiring Control Panel	Non Sanded Batching	

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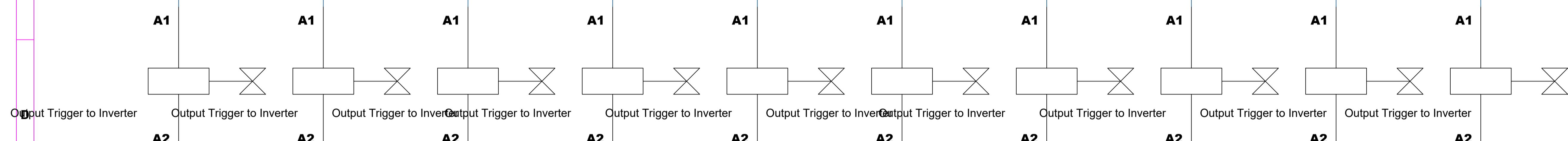
A OTG_RUN_INV_MIX_M02 A

60 :12D

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C OTG_RUN_INV S7_M03 OTG_STO_INV S7_M03 OTG_RUN_INV S8_M03 OTG_STO_INV S8_M03 OTG_RUN_INV S9_M03 OTG_STO_INV S9_M03 OTG_RUN_INV S10_M03 OTG_STO_INV S10_M03 OTG_RUN_INV MIX_M03 OTG_STO_INV MIX_M03

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118 : 6F

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	 WAMGROUP	Title	Project Non Sanded Batching
	4	21-05-2025		Drawn	RAFLI				
				Appr.					
				Norm		Wiring Control Panel		Group OTG_RUN_INV_MIX_M02 Digital Output 3	
									+ Sheet No.116 122 Sheet

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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OTG_SCALE_MIX_M02

60 : 12F

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OTG_TARE_SCALE_MIX_M02

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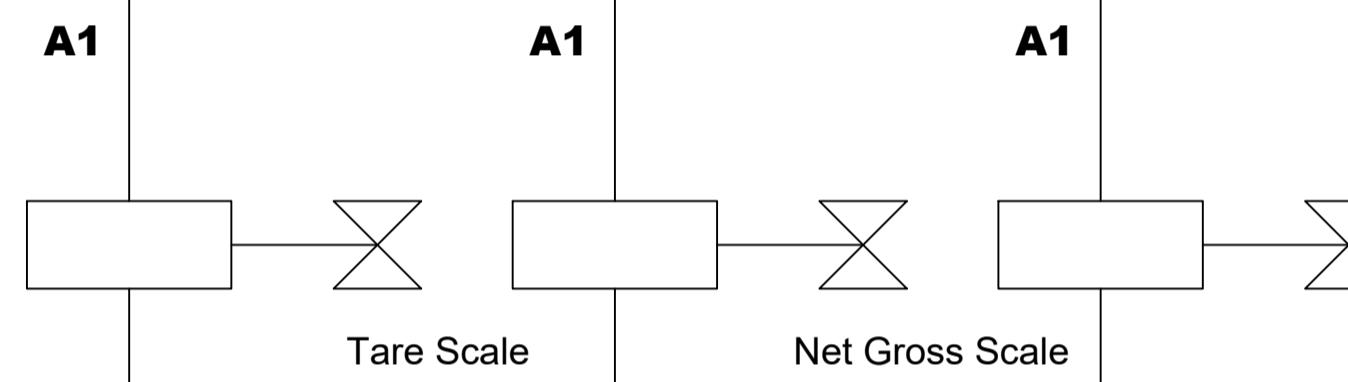
C

OTG_ZERO_SCALE_MIX_M02

OTG_NG_SCALE_MIX_M02

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118 : 6F

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COM PLC

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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA	MU mortar SAINT-GOBAIN	Title	WAMGROUP	Project			
4	21-05-2025		Drawn	RAFLI			Group OTG_SCALE_MIX_M02			Non Sanded Batching		
			Appr.				Digital Output 3			Sheet No.117		
			Norm		Wiring Control Panel					122 Sheet		

2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

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C C

D D

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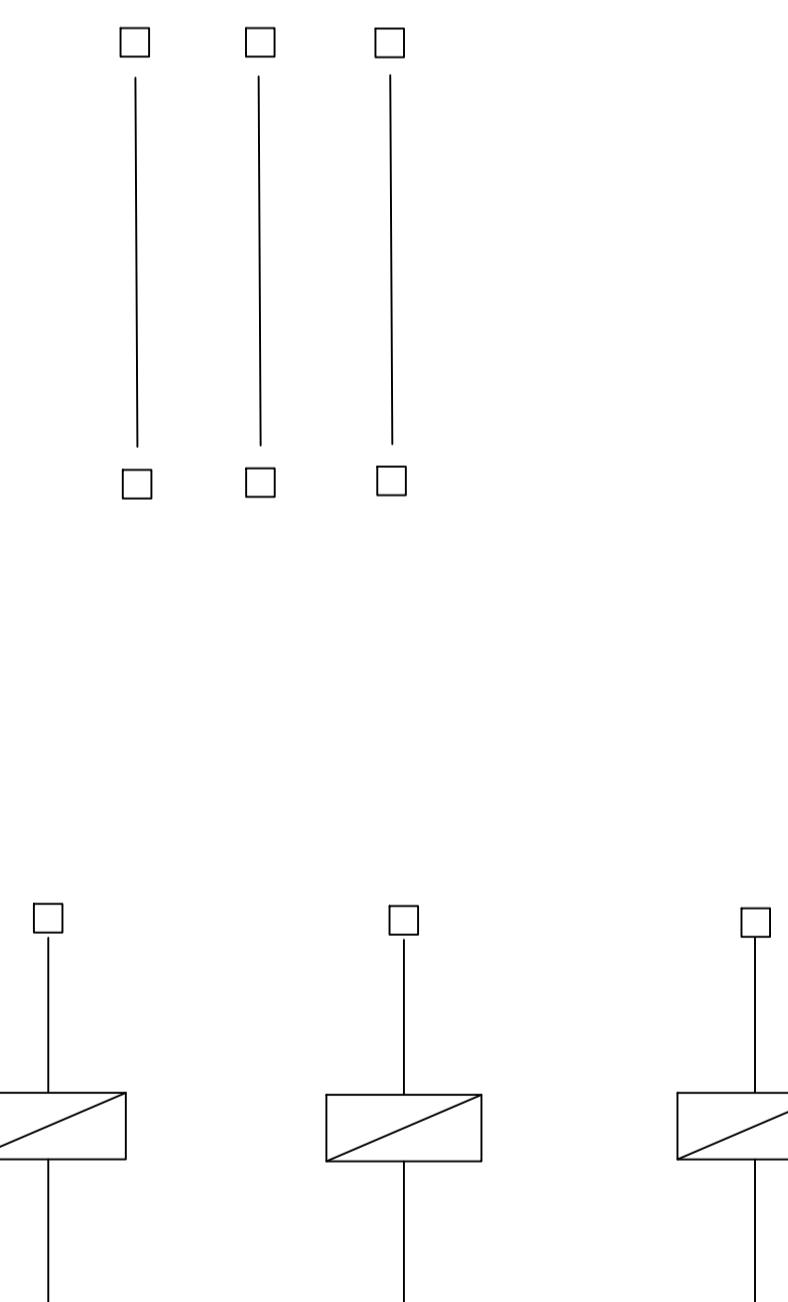
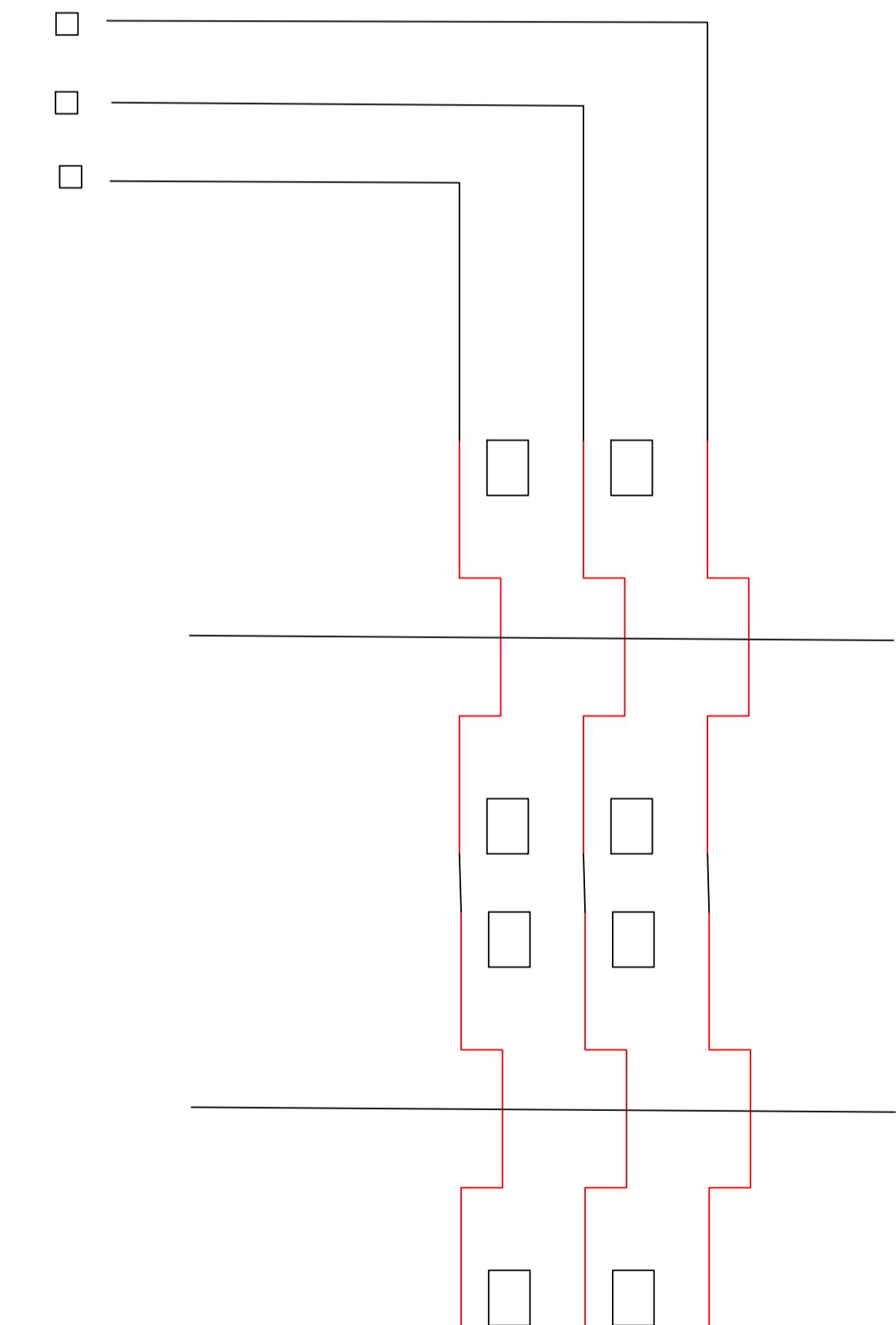
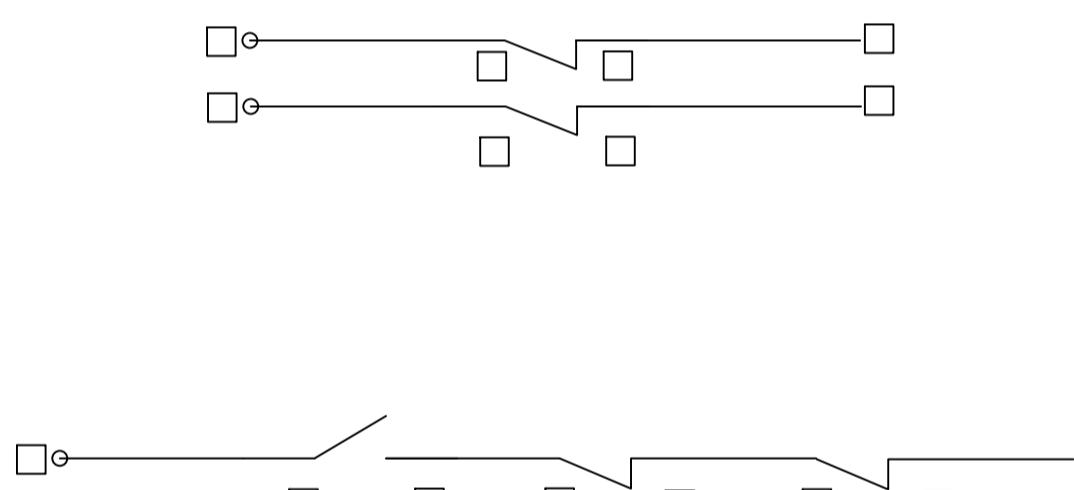
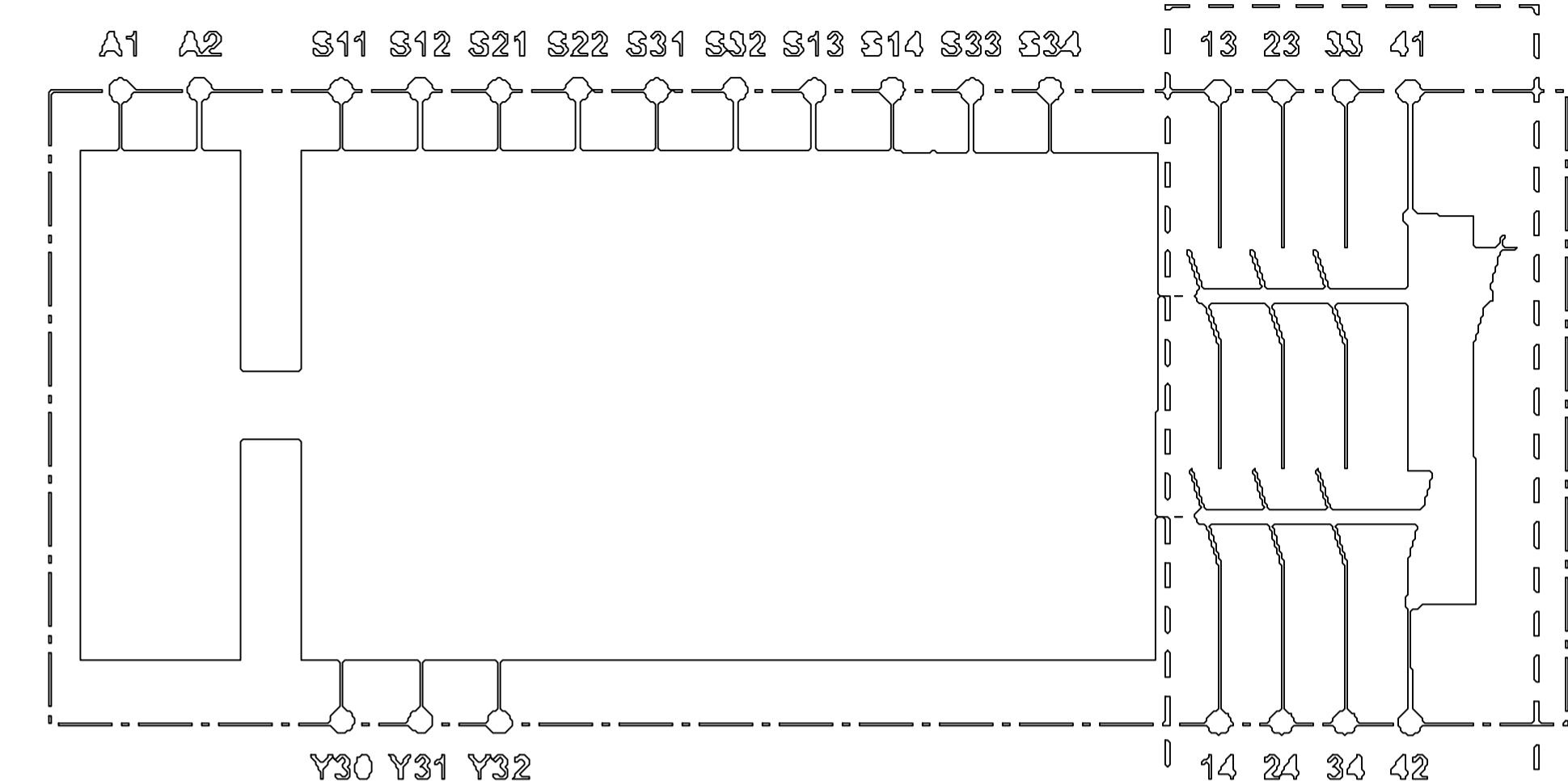
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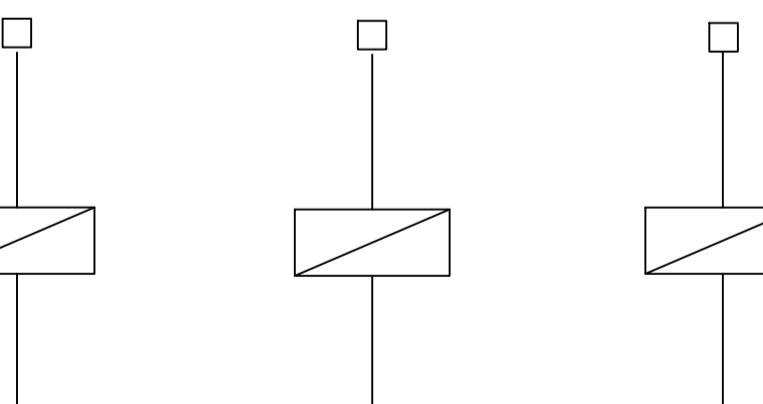
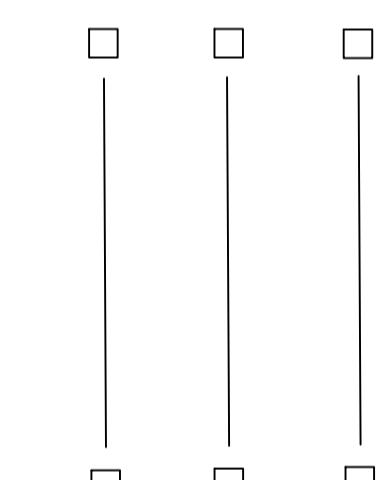
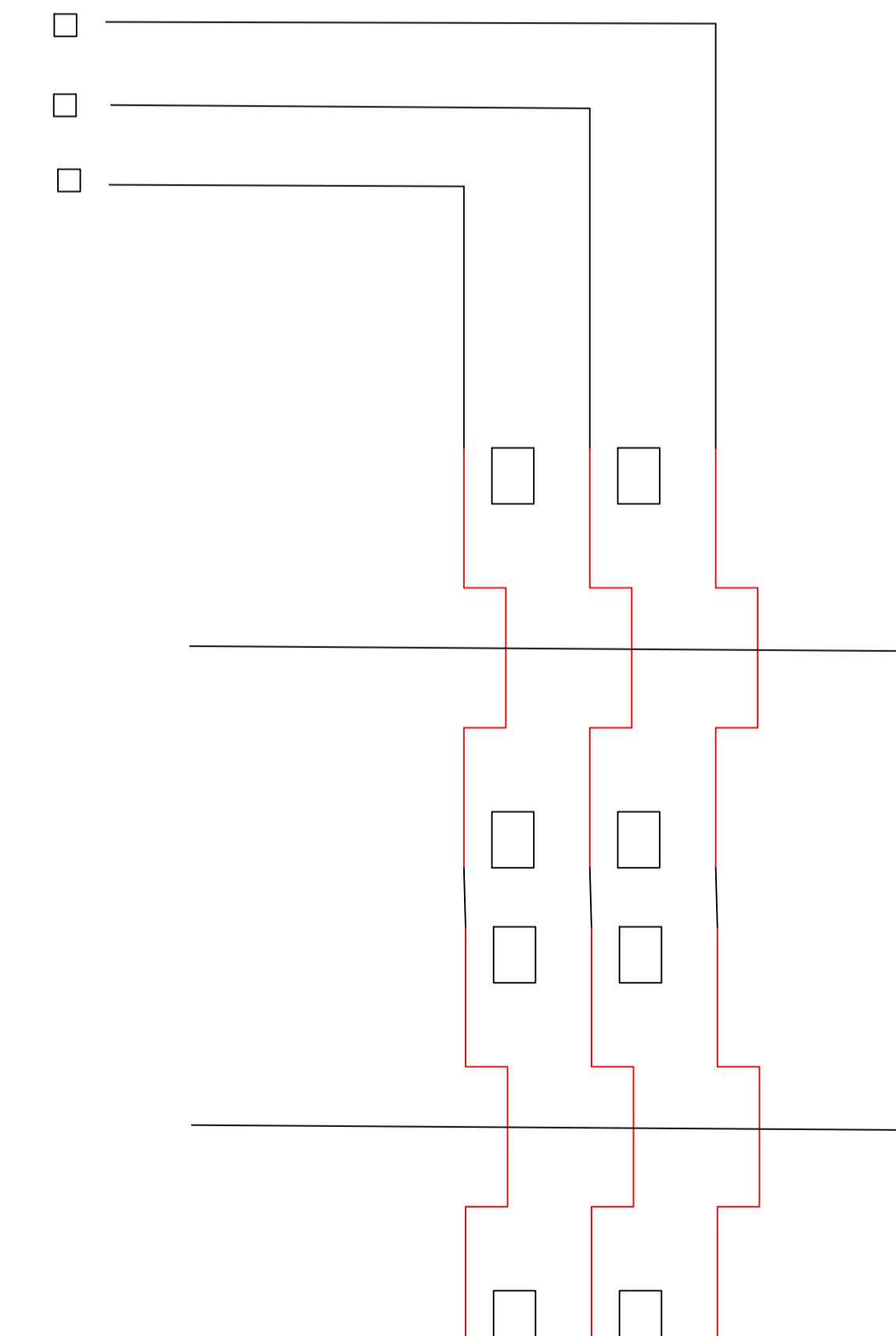
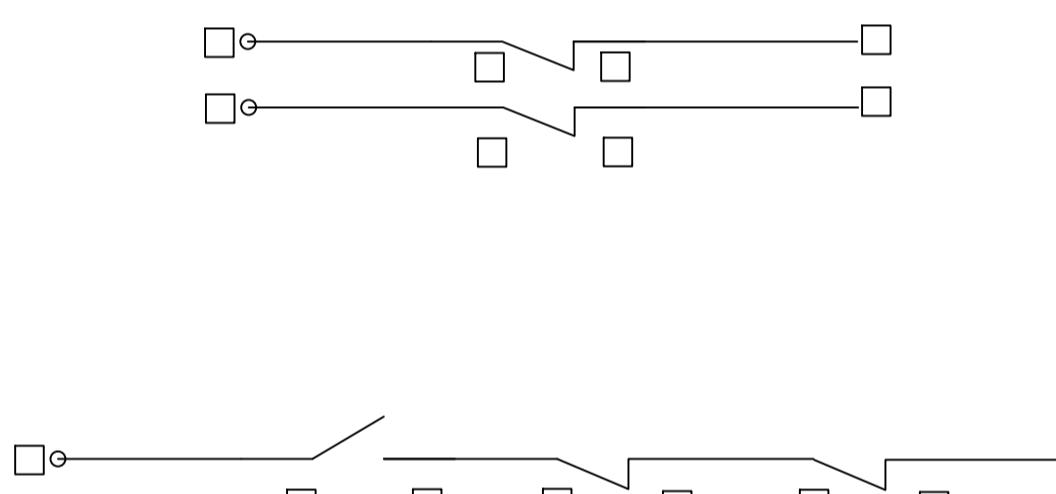
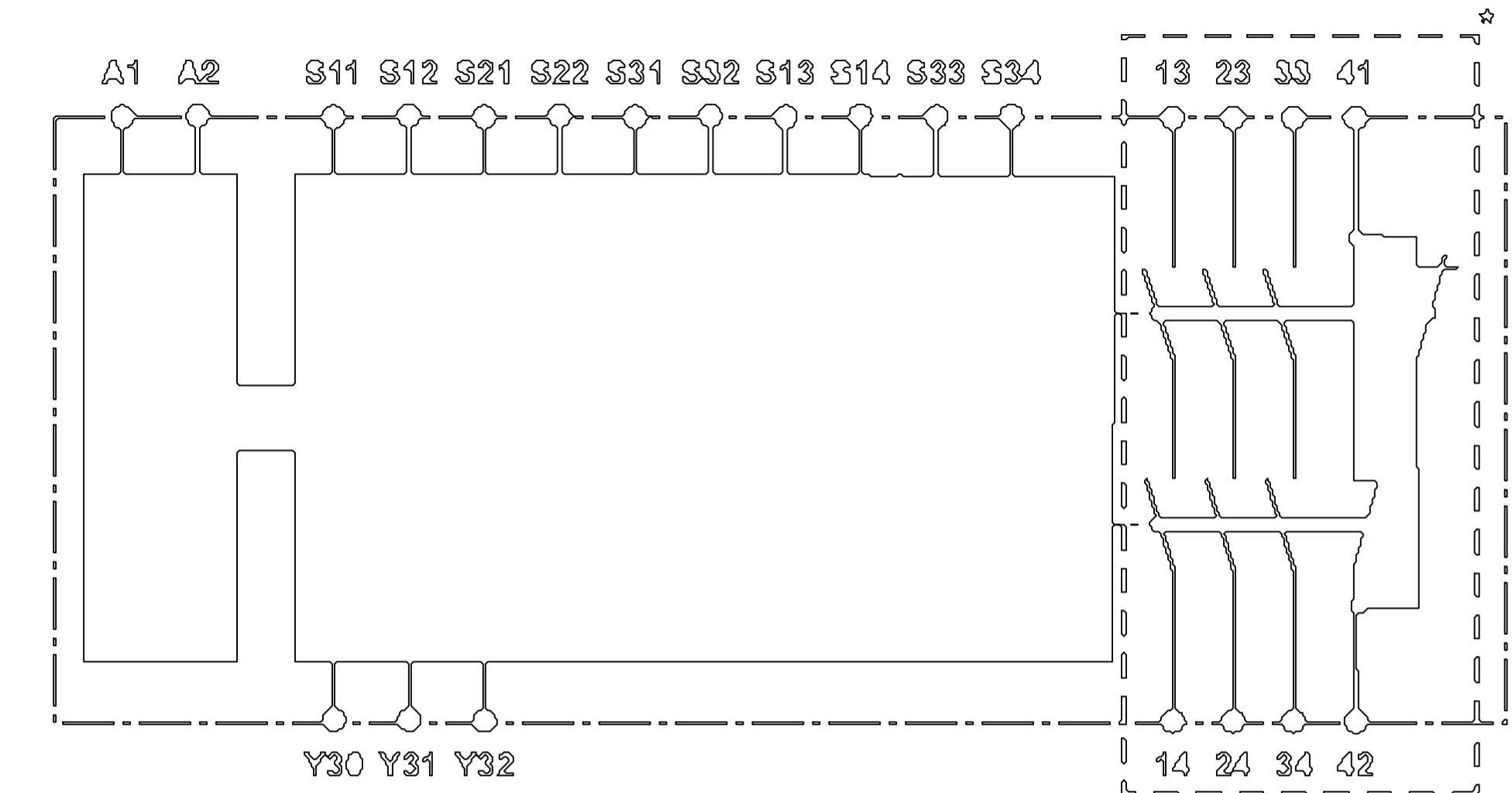
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Rev.	Date	Remarks	Date	Drawn	Appr.	Title	Project	
4	21-05-2025		17-10-2024	RAFLI		P.T. CIPTA MORTAR UTAMA	WAMGROUP	Address Tile Grouting, Pro-X Batching, Non Sanded Batching
						MU mortar utama SAINT-GOBAIN	Power Supply	
			Norm			Wiring Control Panel		
								+
								Sheet No.118
								122 Sheet

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H	Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA MU mortar utama SAINT-GOBAIN	Title SAFETY RELAY PNOZ X3P WIRING SAFETY RELAY PLANT 2	 WAMGROUP	Project	
	4	21-05-2025		Drawn	RAFLI					+
				Appr.						Sheet No.120
				Norm	Wiring Control Panel					122 Sheet

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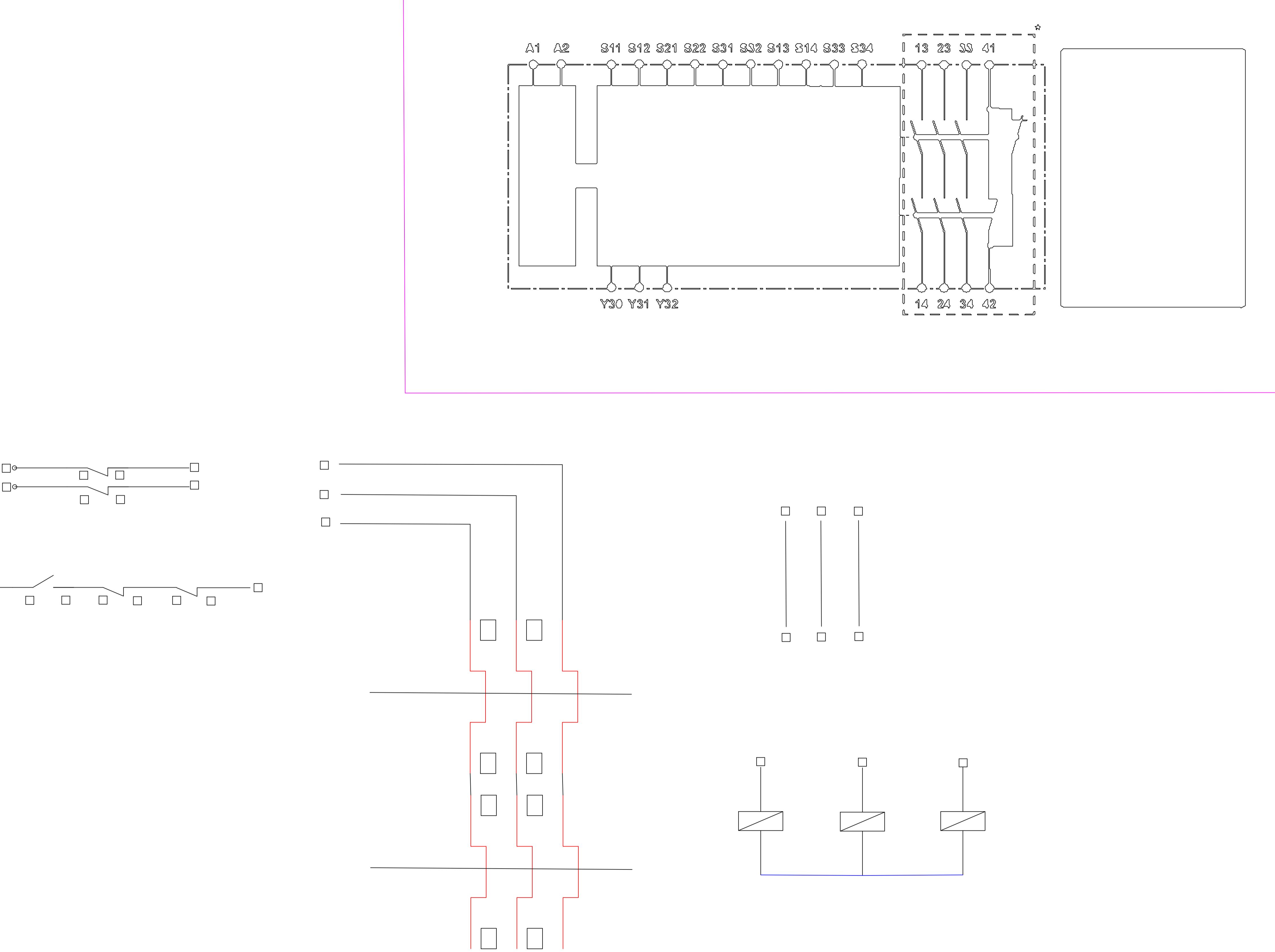
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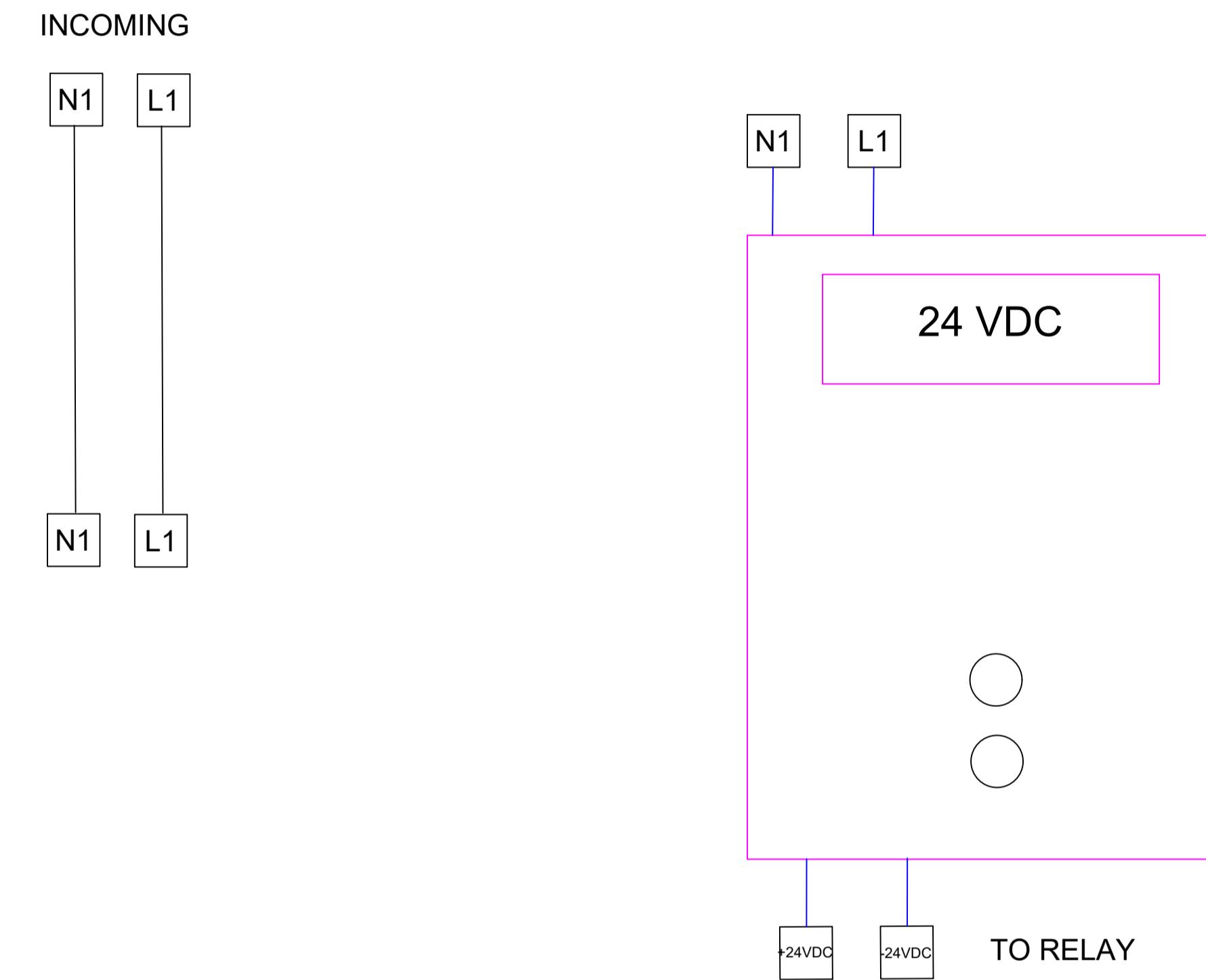
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Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr.	WAMGROUP SAINT-GOBAIN	Title SAFETY RELAY PNOZ X3P	Project WIRING SAFETY RELAY PLANT 3	+ Sheet No.121 122 Sheet
4	21-05-2025		Drawn	RAFLI					
			Norm						





Rev.	Date	Remarks	Date	17-10-2024	P.T. CIPTA MORTAR UTAMA Appr. Norm	Wiring Control Panel	Title	Project WIRING UPS BACKUP PLANT Sheet No.122 122 Sheet	H									
4	21-05-2025		Drawn	RAFLI			UPS BACKUP CONTROL		2									
			Appr.															
			Norm						3	4	5	6	7	8	9	10	11	12