

中华人民共和国第一届职业技能大赛

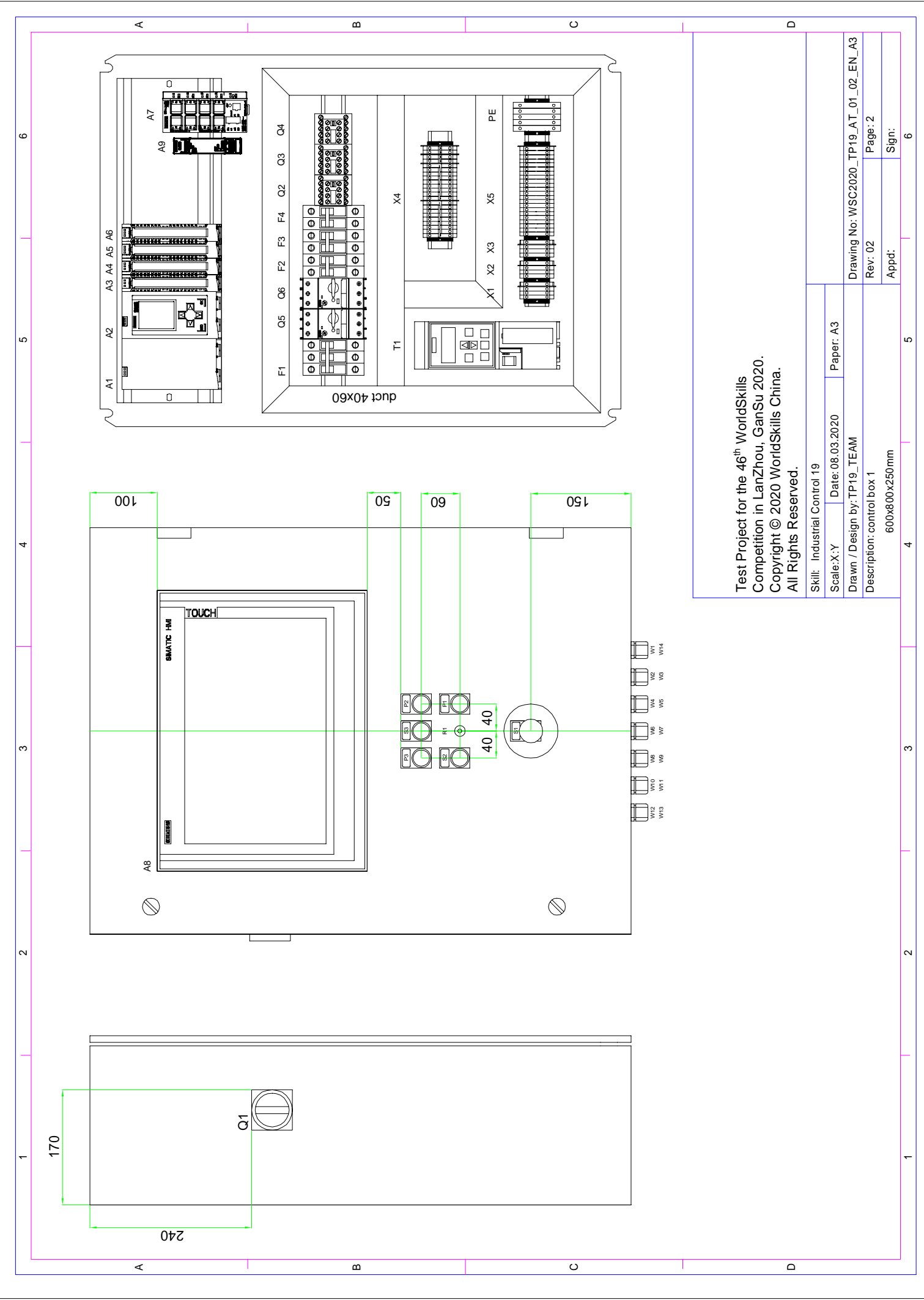
甘肃选拔赛

工业控制项目

样卷-模块C-主项目安装

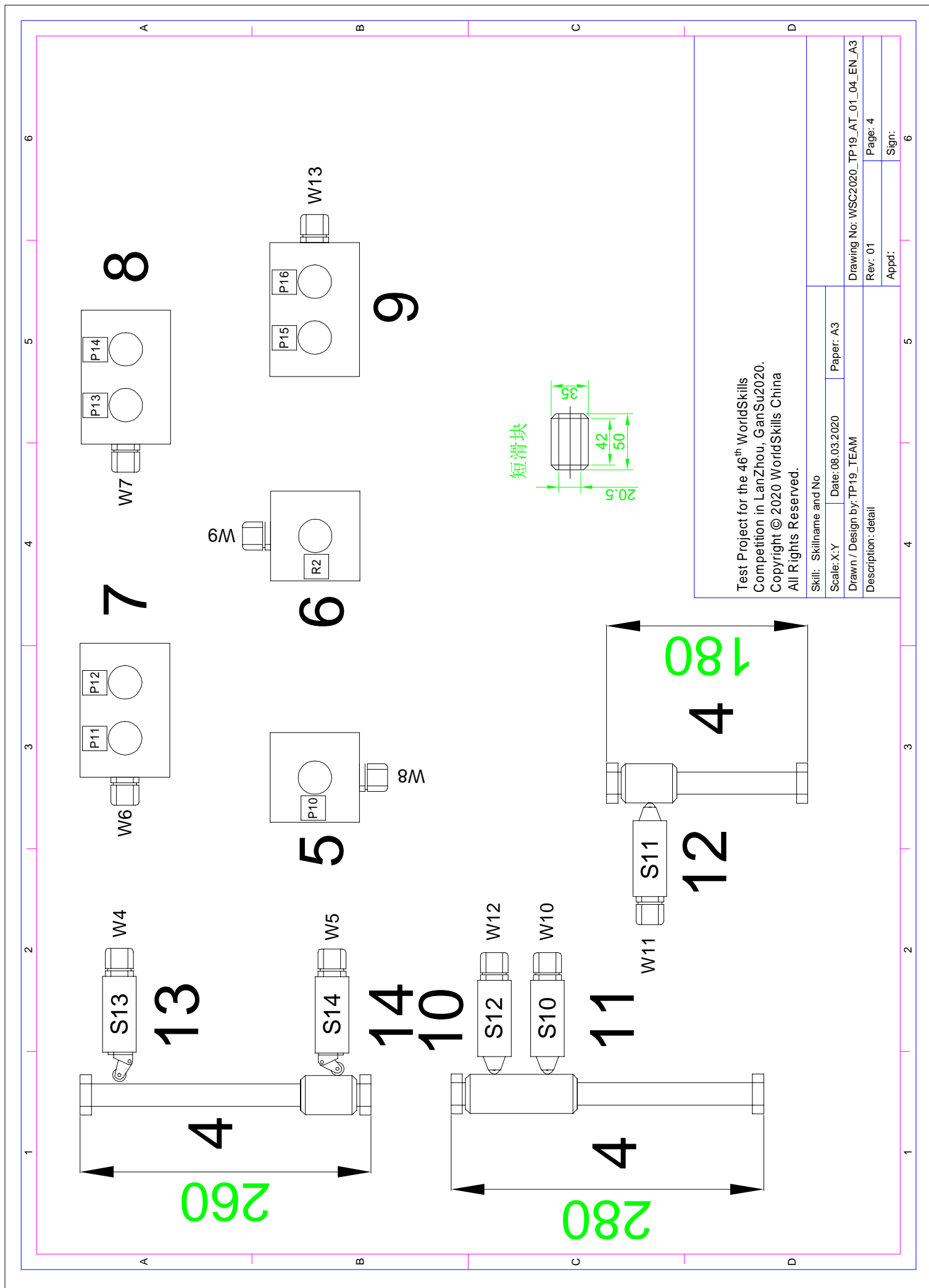
工位编号：_____

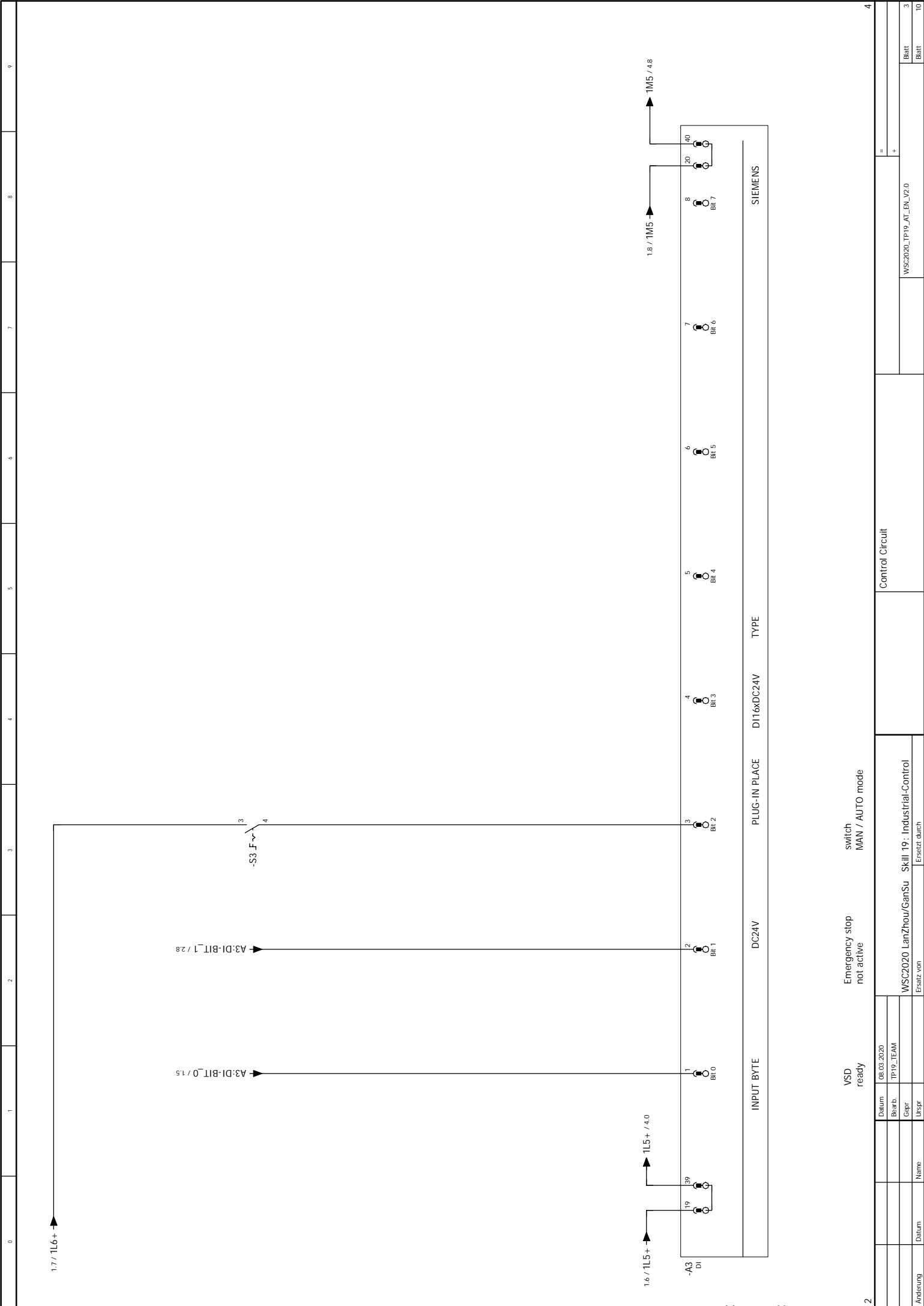
参赛编号：_____



Test Project for the 46th WorldSkills
Competition in LanZhou, GanSu 2020.
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Skill: Industrial Control 19		Paper: A3	
Scale: X:Y	Date: 08.03.2020	Drawing No: WSC2020_TP19_AT_01_02_EN_A3	
Drawn / Design by: TP19_TEAM		Rev: 02	Page: 2
Description: control box 1		Appd:	Sign:
600x800x250mm		5	6





2

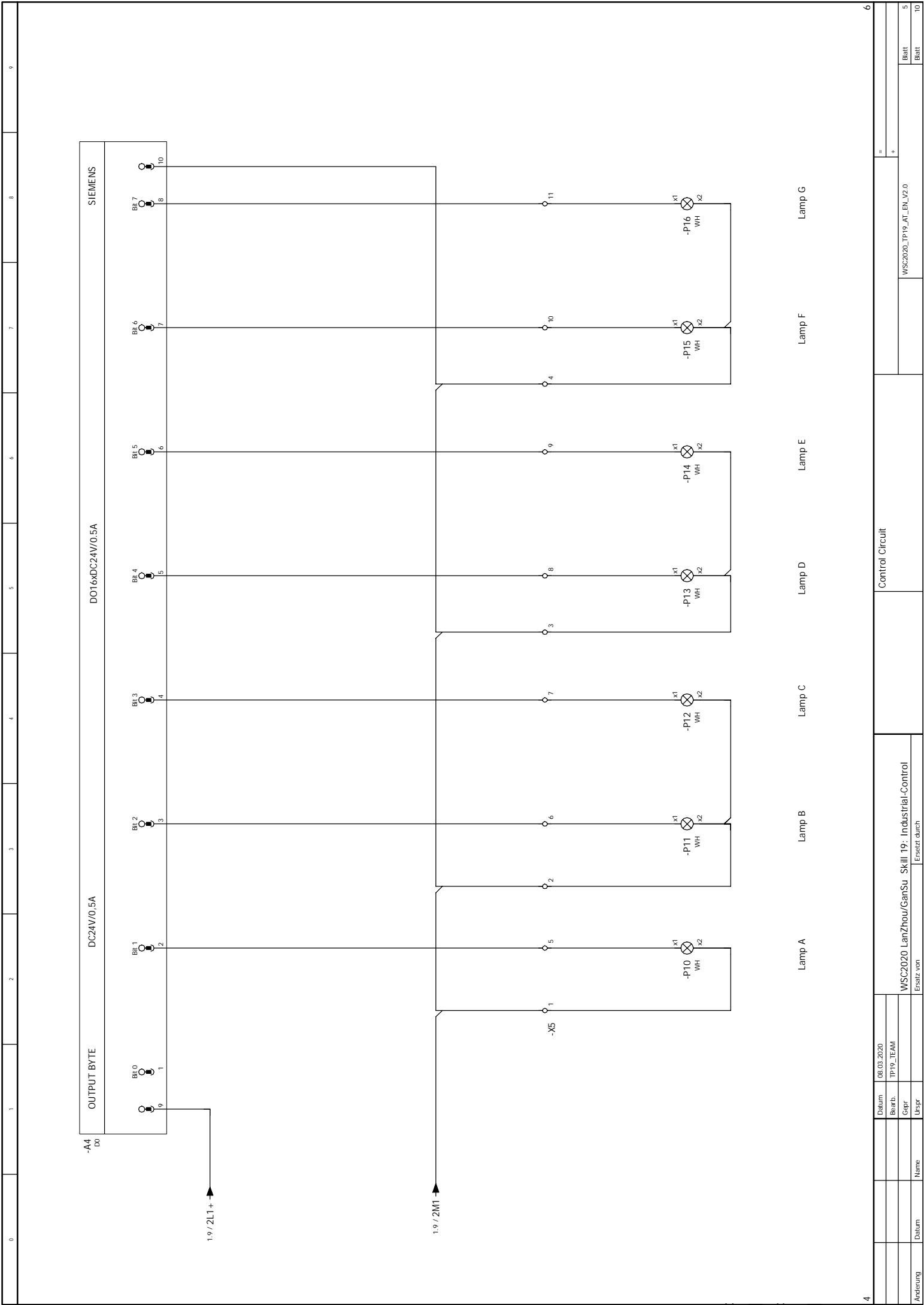
VSD ready

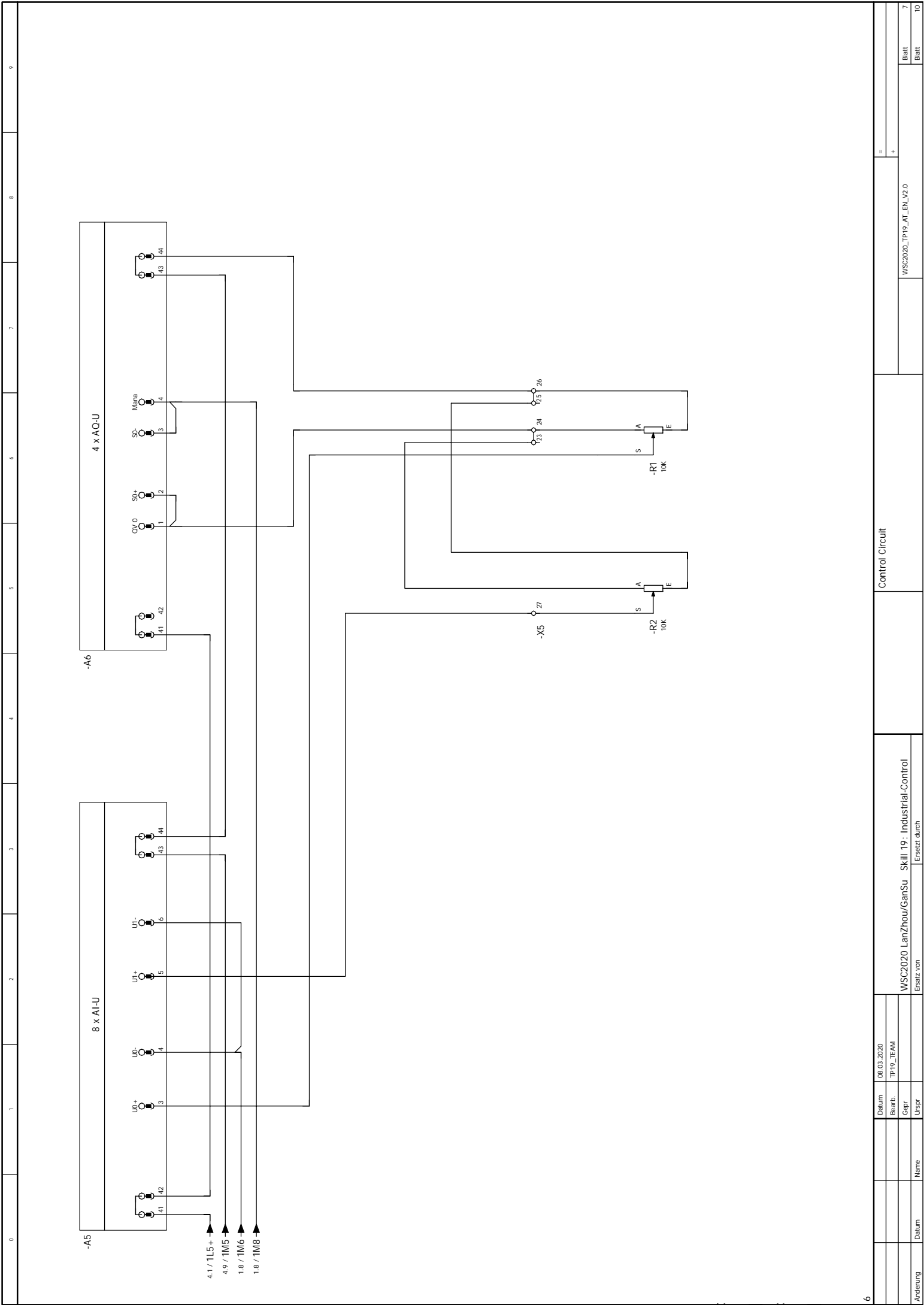
Emergency stop not active

switch MAN / AUTO mode

Control Circuit

4





6		9	
=		+	
WSC2020_TP19_AT_EN_V2.0		7	
Blatt		10	
Blatt		7	
Blatt		10	
Control Circuit		WSC2020_TP19_AT_EN_V2.0	
WSC2020 LanZhou/Gansu Skill 19: Industrial-Control		Ersatz durch	
Ersatz von		Ersatz durch	
Datum		08.03.2020	
Bearb.		TP19_TEAM	
Gepr.			
Uspr.			
Name			
Datum			
Änderung			



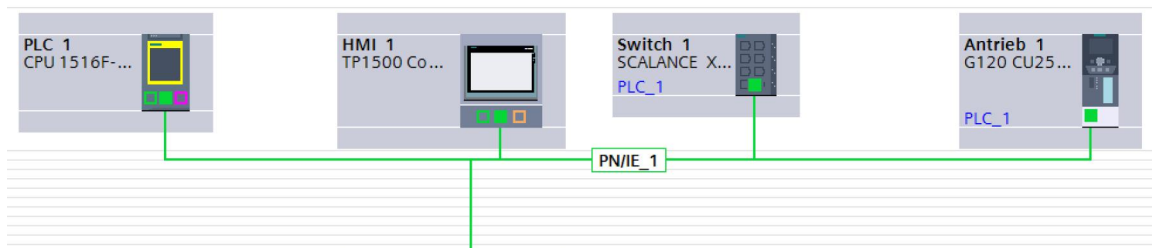
电缆列表

编号	电缆类型	接出		连入
W1	H07VV-F 5G2,5	X1	----->	X0
W2	LIYCY 4G1,5	X2	----->	X6
W3	LIYCY 4G1,5	X3	----->	X7
W4	H05VV-F 3G0,75	A3	----->	S13
W5	H05VV-F 3G0,75	A3	----->	S14
W6	H05VV-F 4G0,75	A4	----->	P11, P12
W7	H05VV-F 4G0,75	A4	----->	P13,P14
W8	H05VV-F 3G0,75	A5/A6	----->	P10
W9	H05VV-F 4G0,75	A4	----->	R2
W10	H05VV-F 3G0,75	A3	----->	S10
W11	H05VV-F 3G0,75	A3	----->	S11
W12	H05VV-F 3G0,75	A3	----->	S12
W13	H05VV-F 4G0,75	A4	----->	P15,P16
W14	H07V-K 6	PE	----->	X8

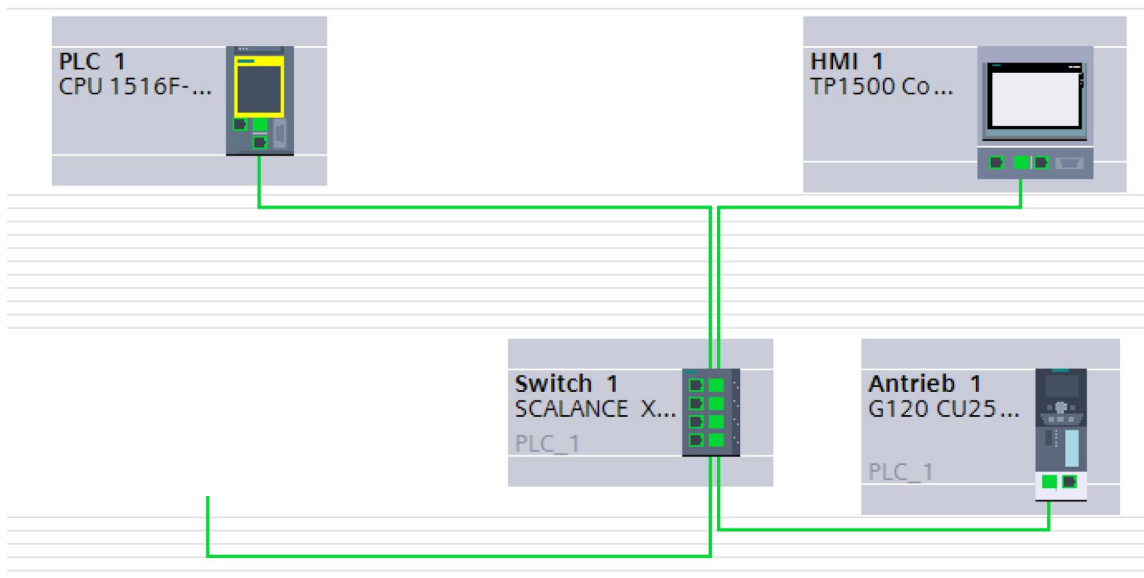


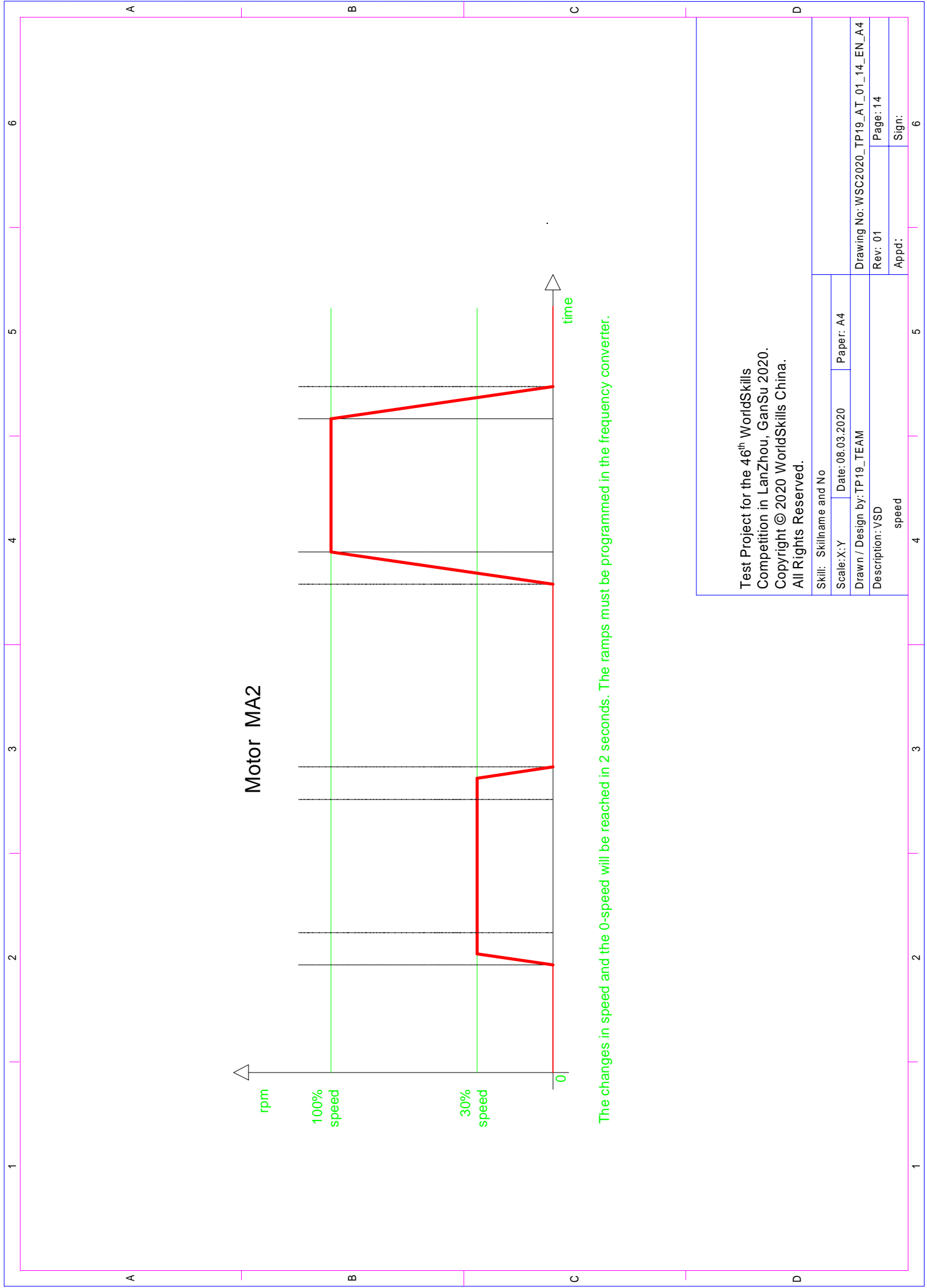
网络连接

网络视图



拓扑视图





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Skill: Skillname and No		Paper: A4	
Scale: X:Y	Date: 08.03.2020		
Drawn / Design by: TP19_TEAM			
Description: VSD			
		Page: 14	
		Appd:	Sign:



SAFETY REPORT – COMMISSIONING

Competitor

Name, City code /

Booth No.:

1. VISUAL INSPECTION:

The visual inspection includes:

☐ Control box 1 ☐ Protective earth terminal ☐ Plant installation

2. MEASUREMENT:

2.1 LOW IMPEDANCE TESTING:

Control box :

CEE- plug	---	X1/PE	..... Ω
CEE- plug	---	PE	..... Ω
CEE- plug	---	panel	..... Ω
CEE- plug	---	side wall	..... Ω
CEE- plug	---	door	..... Ω
CEE- plug	---	S7-rack	..... Ω
CEE- plug	---	T1/PE (VSD)	..... Ω
CEE- plug	---	A8/PE (HMI)	..... Ω
CEE- plug	---	X8	..... Ω

Wall Installation:

CEE- plug	---	vertical ladder	..... Ω
CEE- plug	---	cable tray right side	..... Ω
CEE- plug	---	cable tray left side	..... Ω
CEE- plug	---	cable tray corner	..... Ω
CEE- plug	---	X6/PE (CEE socket)	..... Ω
CEE- plug	---	X7/PE (CEE socket)	..... Ω



2.2. ISOLATION MEASUREMENT:

Main circuit X1 – Power supply:

X1/PE	---	L1, L2, L3	..... MΩ
X1/L1, L2, L3,	---	L1, L2, L3	..... MΩ

Main circuit X2 – CEE socket X6:

X2/PE	---	X2/ L1, L2, L3	..... MΩ
X2/L1, L2, L3	---	X2/ L1, L2, L3	..... MΩ

Main circuit X3 – CEE socket X7:

X3/PE	---	X3/ L1, L2, L3	..... MΩ
X3/L1, L2, L3	---	X3/ L1, L2, L3	..... MΩ



SAFETY REPORT – COMMISSIONING

Allowed only in the presence of an expert !!!

2.3. TESTING: RESIDUAL CURRENT DEVICE (RCD):

☐ function OK

☐ function not OK

2.4. VOLTAGE MEASUREMENT:

L1-X1	---	PE-X1	..... V
L2-X1	---	PE-X1	..... V
L3-X1	---	PE-X1	..... V
L1-X1	---	L2-X1	..... V
L1-X1	---	L3-X1	..... V
L2-X1	---	L3-X1	..... V

2.5. ROTATIONAL FIELD MEASUREMENT – X1:

☐ Rotating field is left-handed (CCW)

☐ Rotating field is right-handed (CW)

2.6. EMERGENCY STOP FUNCTION:

☐ OK

☐ not OK

For the accuracy

Signature by Competitor

Signature by Expert

C.C.

Signature by Expert

C.C.

Date: _____

Signature by Expert

C.C.