

VENDOR DOC. NO. ES09-A2202-HW-Layout-Wiring-PLC  
 TOTAL 202 SHEETS

SERVICE : SCADA SYSTEM

DOCUMENT TITLE : OUTLINE DIMENSION DRAWING AND WIRING DIAGRAM (CONTROL CABINET)

1ST BLACK PELLET COMMERCIAL PLANT (BINH DINH 1ST FACTORY) CONSTRUCTION PROJECT	
IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY HOAI NHON DISTRICT, BINH DINH PROVINCE	
 CÔNG TY TNHH TTCL VIỆT NAM TTCL VIETNAM CORPORATION LIMITED Ho Chi Minh City - Vietnam	
TVC JOB NO. VD - 174	
P/O No. : VD174-2000-0000-019	
Item No. : SCADA SYSTEM	
Project Doc. No.: SCADA-08-001	Rev: 4

4	08/09/2023	For Final	Man.TP	Hoang.Le	Phuong.TV	
3	02/12/2022	For Approval	Man.TP	Hoang.Le	Phuong.TV	
2	22/11/2022	For Approval	Man.TP	Hoang.Le	Phuong.TV	
1	19/10/2022	For Approval	Man.TP	Hoang.Le	Phuong.TV	
0	16/09/2022	For Approval	Man.TP	Hoang.Le	Phuong.TV	
REV.	DATE	DESCRIPTION	PREP' D	CHECKED	APPROVED	AUTH' D

VENDOR NAME : ESTEC CO., LTD

## REVISION HISTORY

# PROJECT: 1ST BLACK PELLET COMERCIAL PLANT

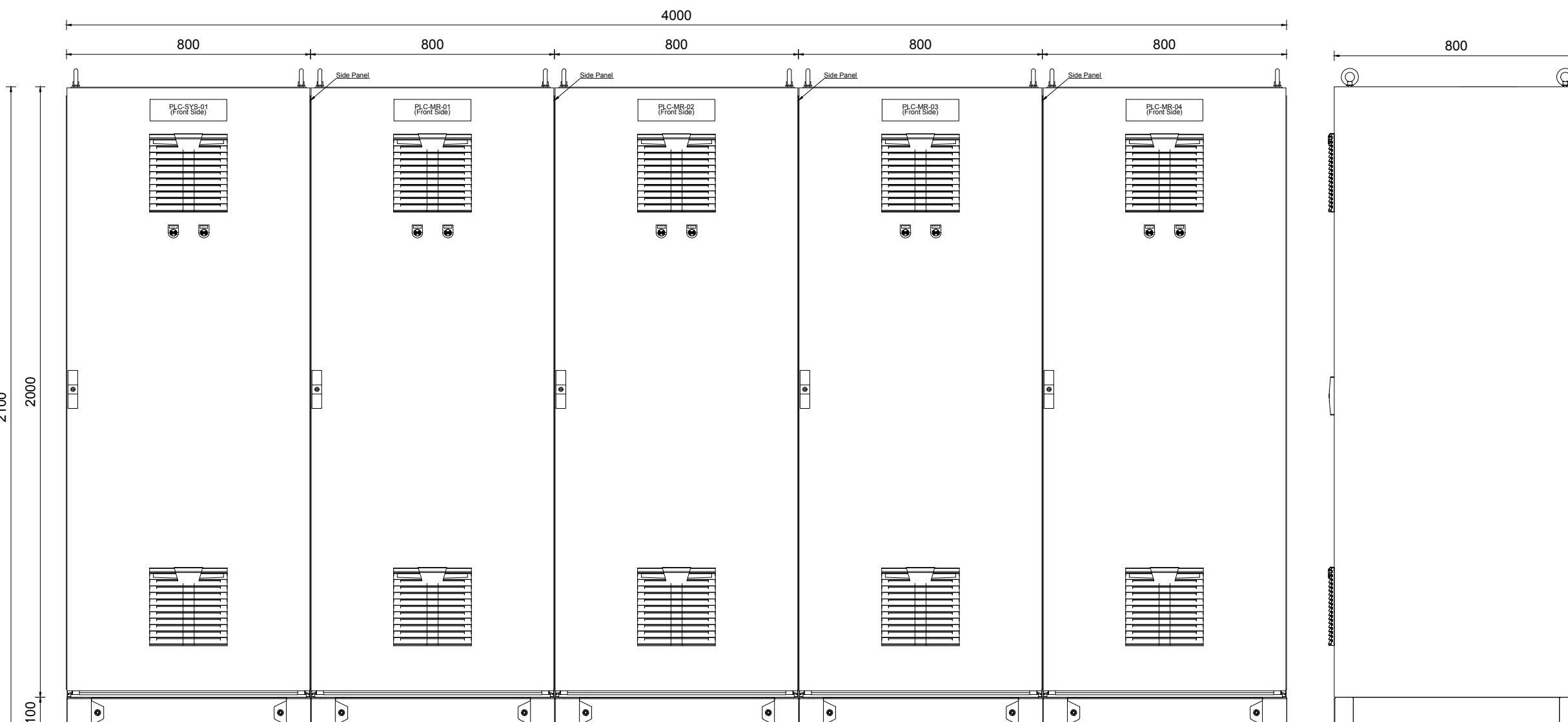
DOCUMENT TITLE: LAYOUT DRAWING FOR PLC PANEL

 IDEMITSU	
IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY (IGEV)	
Hoai Nhon Town, Binh Dinh Province, Viet Nam	
 ESTEC	
EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD	
61 Le Duc Tho Street, Ward 7, Go Vap District, HCMC, Vietnam Block A14, Road No. 7, Hightech Park, Hoa Lien, Hoa Vang, Da Nang, Vietnam	
Project Co. : ES09-A2202	
P/O No. : VD174-2000-0000-019	
Item No. :	
Doc. No. : SCADA-08-001	Rev. : 4

Total Pages: 20

## INDEX

No.	Description	Page number
1	Revision History	1
2	Cover Sheet	2
3	Index Sheet	3
4	Overview for PLC Panel	4,5,6
5	Cutout View for PLC Panel	7,8
6	Inside View for PLC Panel	9,10
7	Equipment List for PLC-SYS-01	11
8	Inside View for PLC-SYS-01	12
9	Equipment List for PLC-MR-01	13
10	Inside View for PLC-MR-01	14
11	Equipment List for PLC-MR-02	15
12	Inside View for PLC-MR-02	16
13	Equipment List for PLC-MR-03	17
14	Inside View for PLC-MR-03	18
15	Equipment List for PLC-MR-04	19
16	Inside View for PLC-MR-04	20



FRONT VIEW

SIDE VIEW

# PLANT CONSTRUCTION PROJECT

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IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY

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CORPORATION LIMITED

ACCOUNT CUSTOMER'S ORDER

No. \_\_\_\_\_

SEA TECHNOLOGY ENGINEERING

ELCTRICAL AUTOMATION CO.,LTD

Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Bld No. 7, Da Nang Hightech Park, Hoa Lien, Hoa Vang, Da Nang

Address: No. 7, Da Nang Hi-Tech Park, Hoa Lien, Hoa Vang, Da Nang

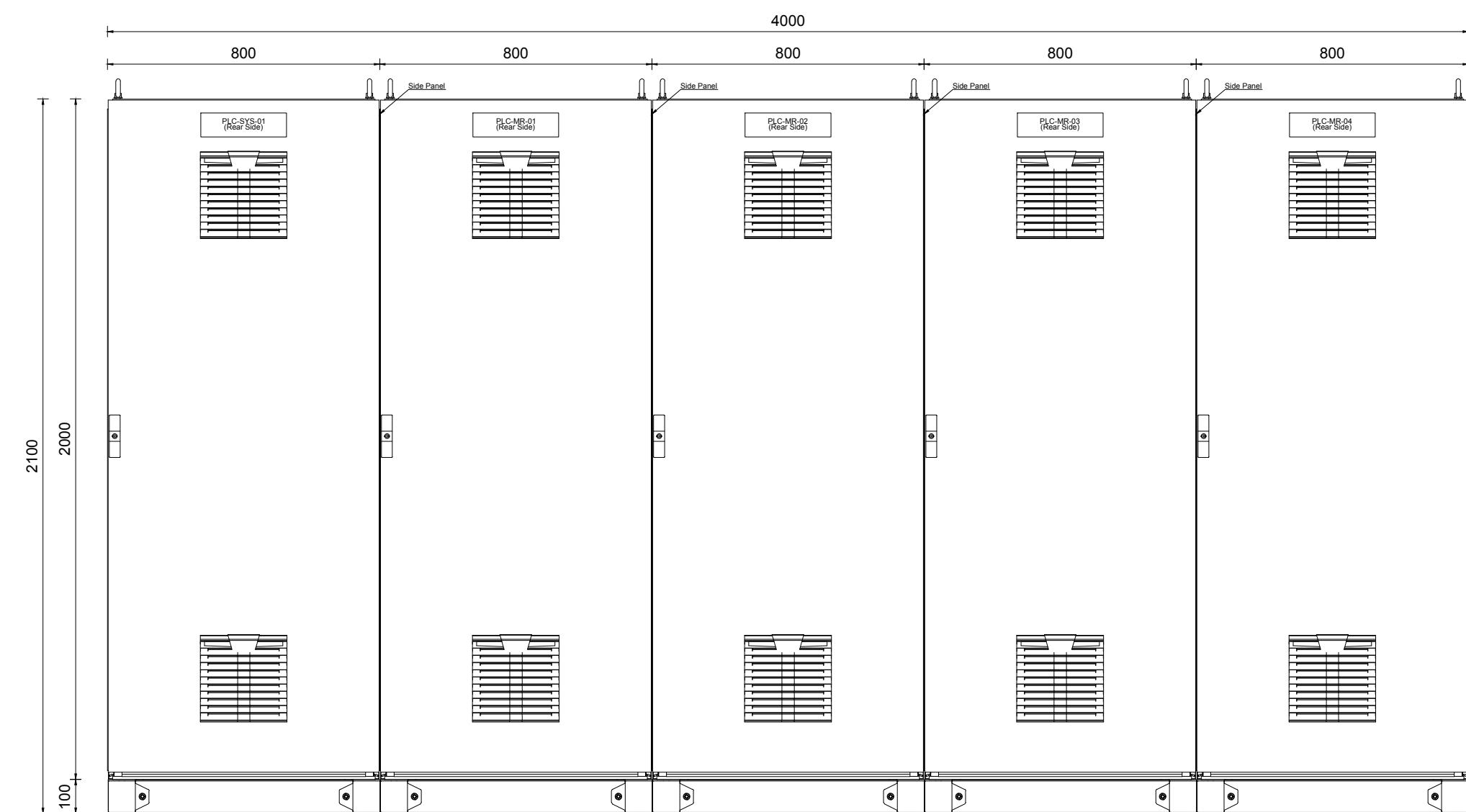
## OUT DRAWING

View for PLC Panel

Page 1

. NO. SCADA-08-001

Scale Plot 1:16 J File Name : SCADA-08-001



5 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F V 09/05/2023  
 4 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F V 15/12/2022  
 2 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F V 25/11/2022  
 1 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F V 17/10/2022  
 0 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F V 15/09/2022

REV. DESCRIPTION DWN. CHKD A/E CHEIF MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT:  
1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER:  
**IDEMITSU**  
IDEMITSU GREEN ENERGY VIETNAM  
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Hoai Nhon District, Binh Dinh Province

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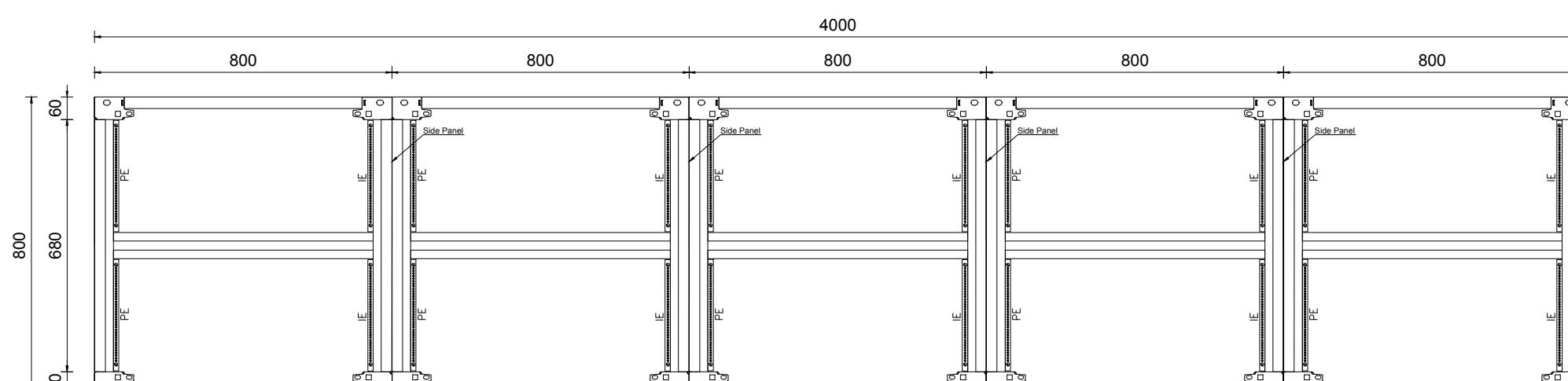
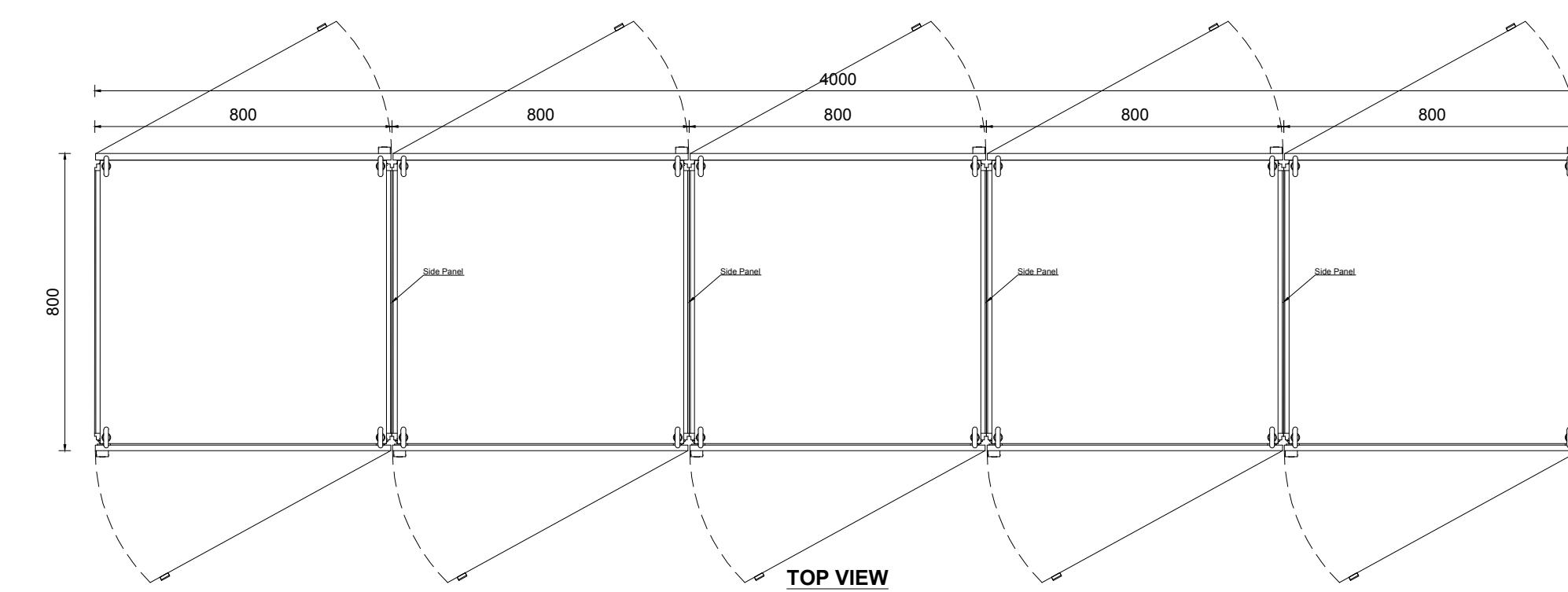
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LAYOUT DRAWING  
Overview for PLC Panel

SCALE N/A DWG. NO. SCADA-08-001

**BOTTOM VIEW**

5	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	V	09/05/2023
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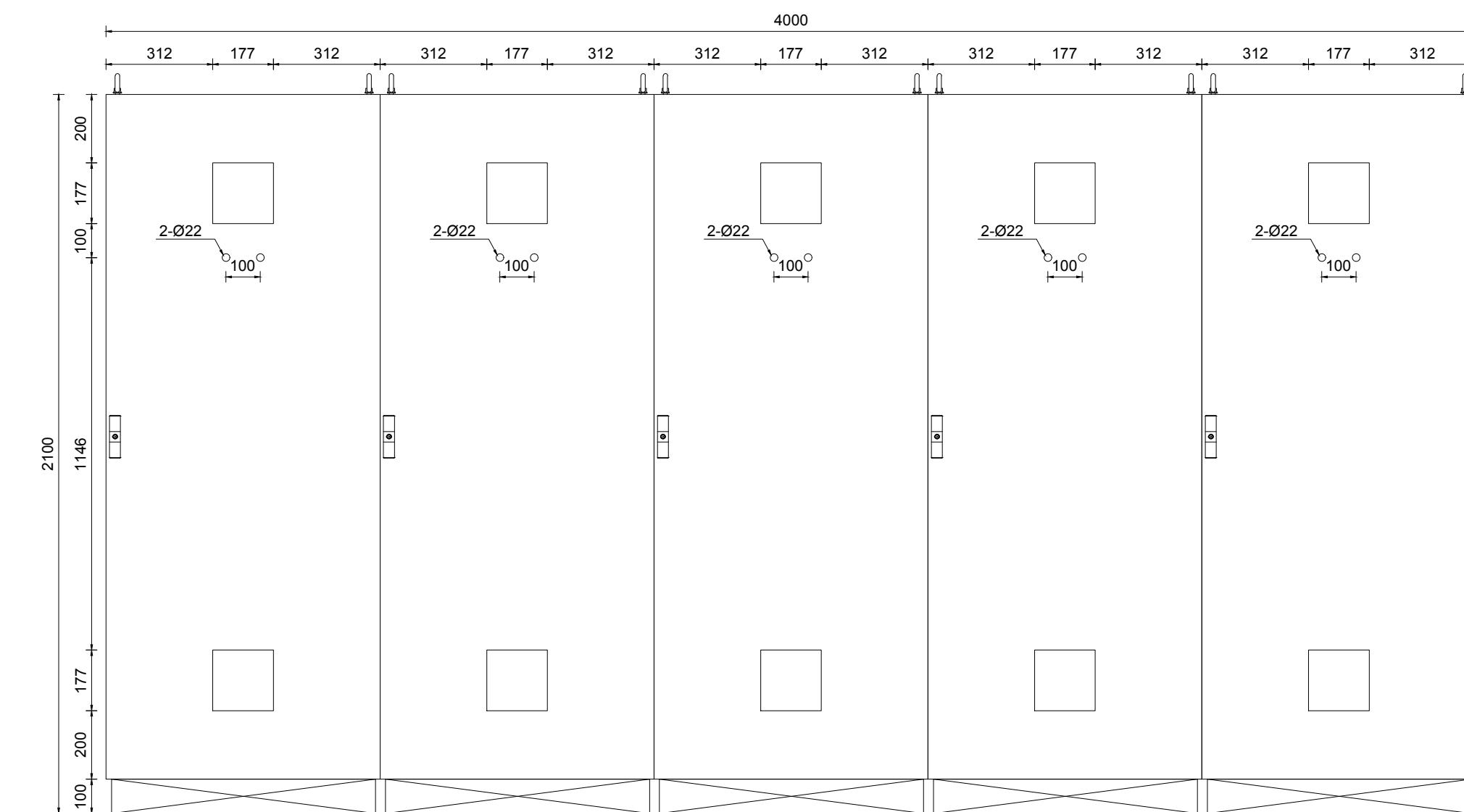
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LAYOUT DRAWING  
Overview for PLC Panel

SCALE N/A DWG. NO. SCADA-08-001



CUTOUT FRONT VIEW

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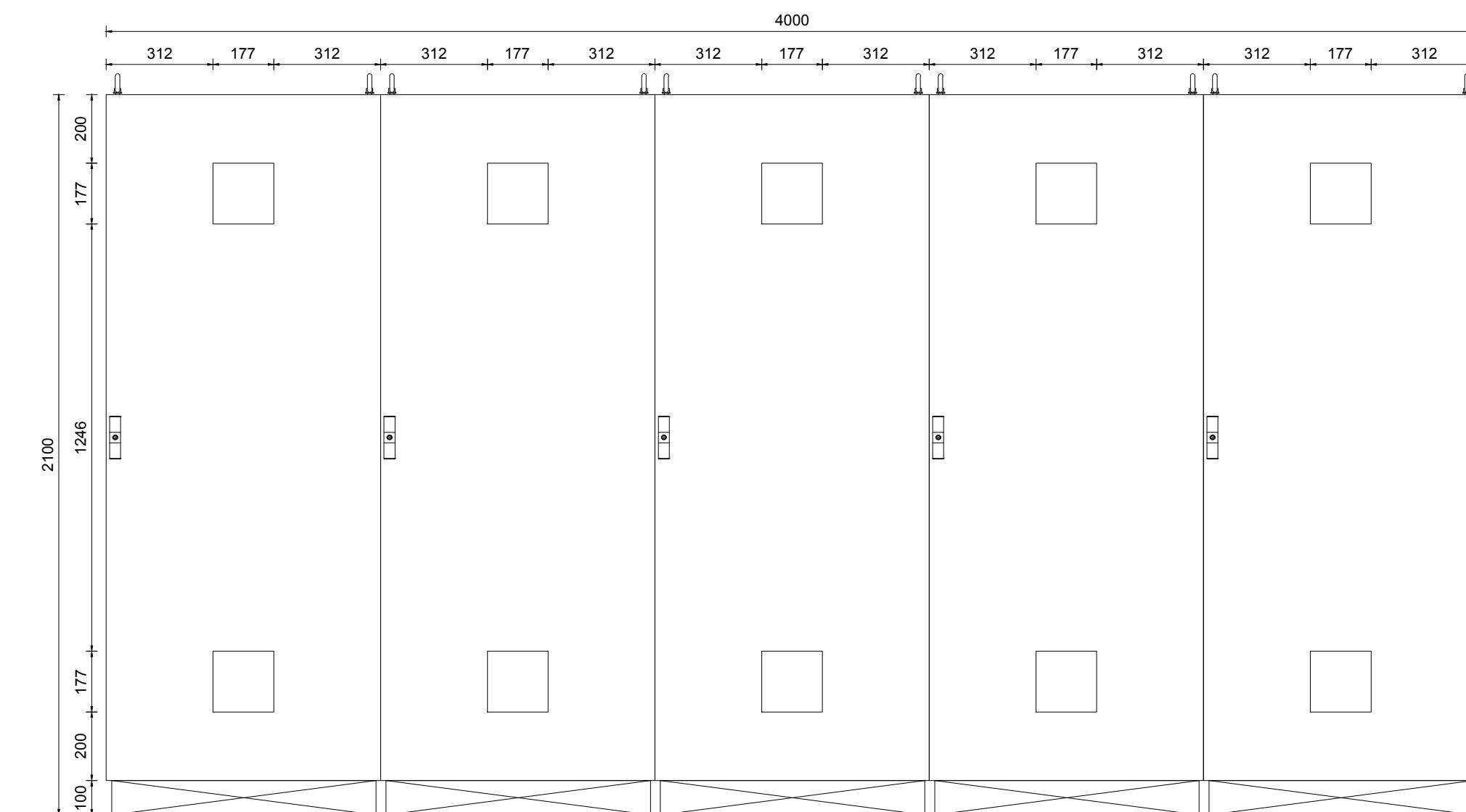
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LAYOUT DRAWING  
Cutout View for PLC Panel

SCALE	N/A	DWG. NO.	SCADA-08-001
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CUTOUT REAR VIEW

5	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.			C L	09/05/2023
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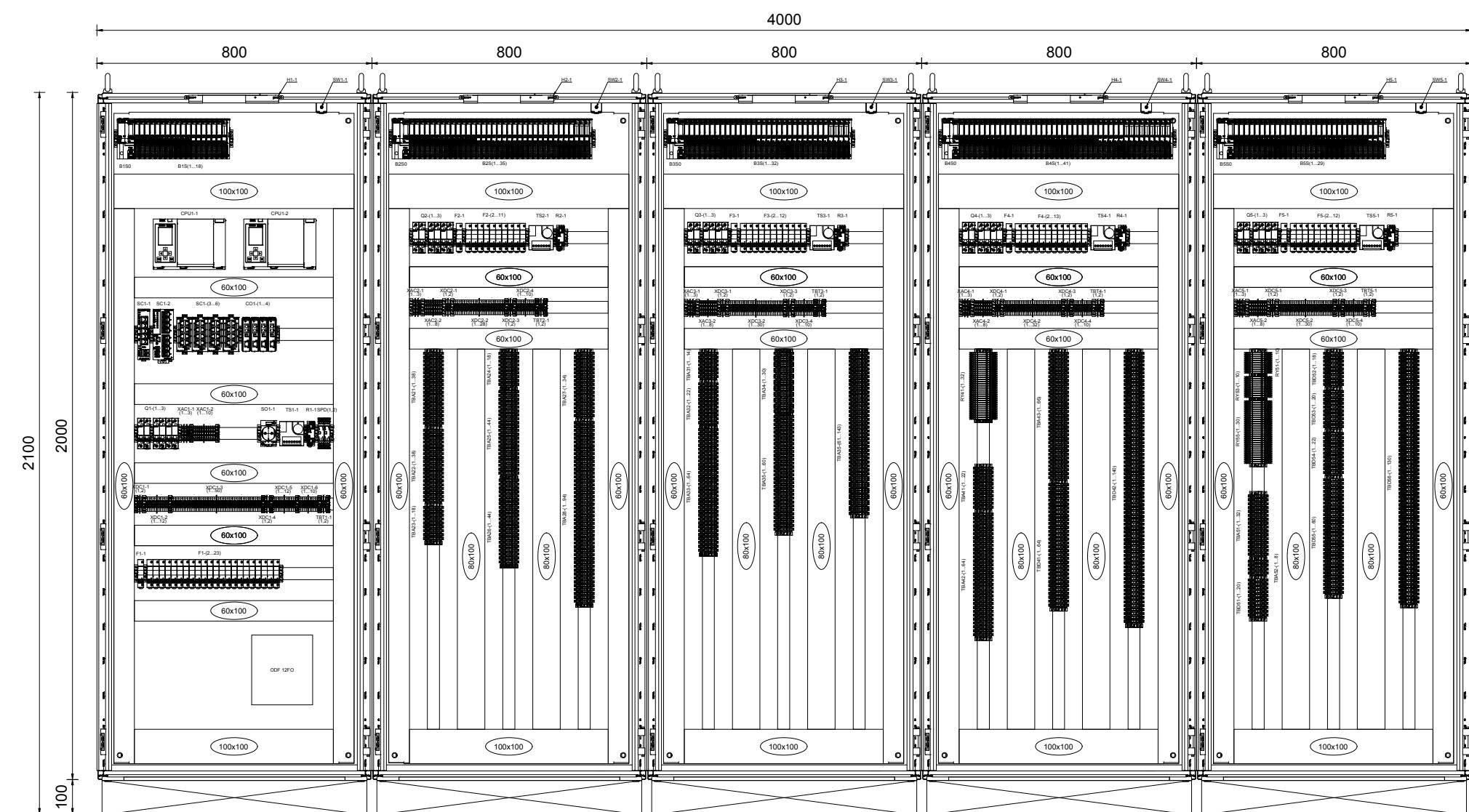
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang City

EAST SEA TECHNOLOGY ENGINEERING  
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Layout Drawing

Cutout View for PLC Panel

SCALE N/A DWG. NO. SCADA-08-001



INSIDE FRONT VIEW

## 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

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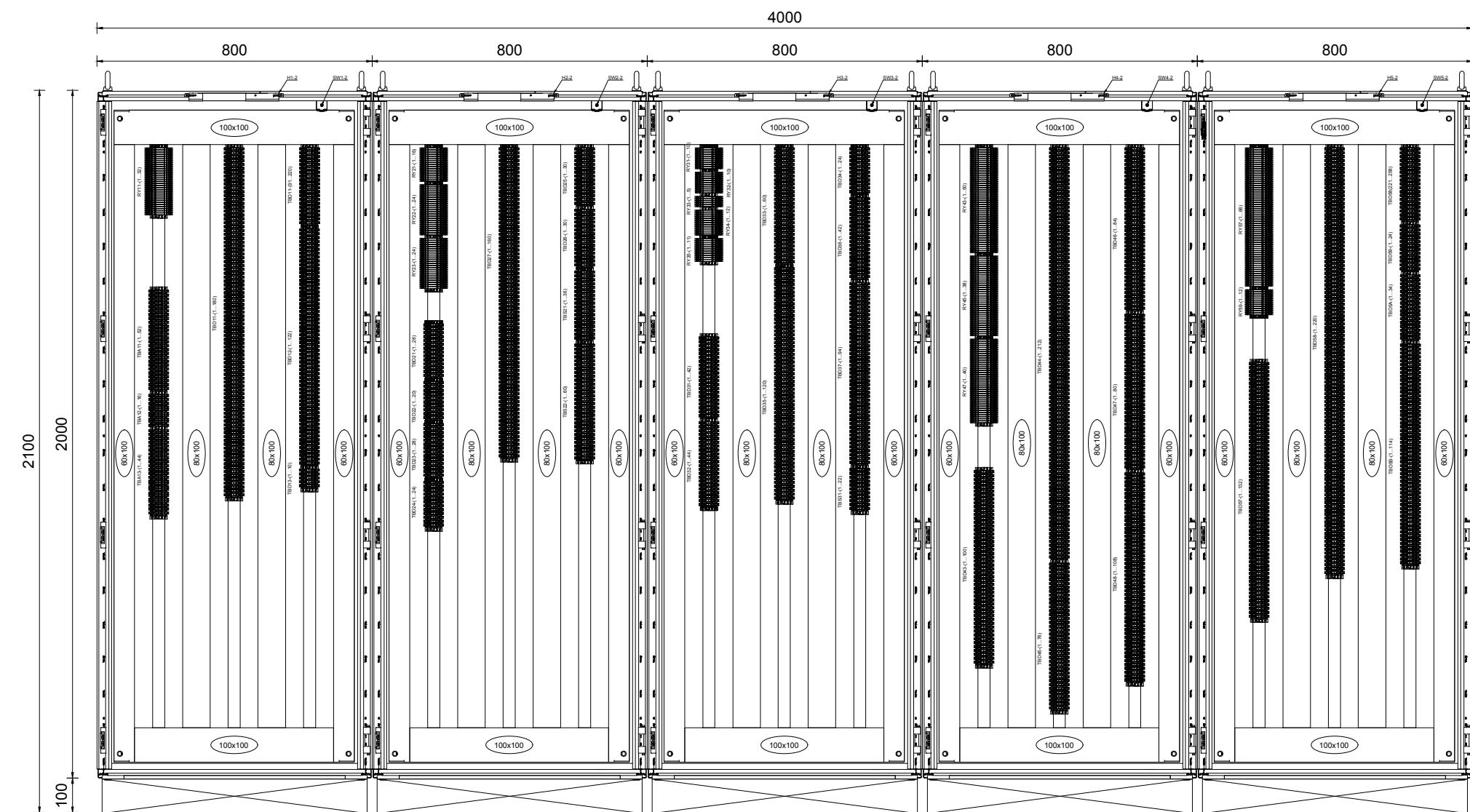
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Factory: Block A14, Pond No. 7, Da Nang Hi-tech Park, Hiep Lieu, Da Nang City

LAYOUT DRAWING

Inside View for PLC Panel



#### **INSIDE REAR VIEW**

— 1 —

Figure 1. The relationship between the number of days of hospitalization and the number of days of hospitalization for all patients.

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For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4000 or email at [mhwang@uiowa.edu](mailto:mhwang@uiowa.edu).

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For more information about the study, please contact Dr. Michael J. Koenig at (314) 747-2146 or via email at [koenig@dfci.harvard.edu](mailto:koenig@dfci.harvard.edu).

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For more information about the study, please contact Dr. Michael J. Hwang at (310) 794-3000 or via email at [mhwang@ucla.edu](mailto:mhwang@ucla.edu).

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ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V			C L F V	15/12/2010
ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V			C L F V	29/11/2010
ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V			C L F V	17/11/2010
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	TTCL JOB	ACCOUNT	CUSTOMER'S ORDER
VC	No. VD-174	_____	No. _____

**CONSTRUCTOR:** EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO.,LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang

LAYOUT DRAWING

Inside View for PLC Panel

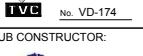
No	Tagname	Equipment description	Order code	Q'ty	Unit	Manufacturer
1	PLC-SYS-01	PS SMART WHD 800x2000x800, RAL7035, 02 MTL, front&rear door	7187753	1	set	Rittal
2	H1-1, H1-2 SW1-1, SW1-2 TS1-1	Side panel 2200H800D (pk of 2) SO2848 100MM PLINTH WD 800x800 SZ2514 A4 Wiring Plan pocket SZ Enclosure Light LED 400, 100-240V SZ Power supply 2 pole SK Door - operated switch SK Thermostat SK Filter fan 105m³/h 230V 50/60Hz SK Outlet filter for SK 3239.1xx	7187226 2848200 2514000 2500100 2500420 2500460 3110000 3239100 3239200	1	set	Rittal
3		S7-1500, mounting rail 245 mm (9.6")	6ES7590-1AC40-0AA0	2	pcs	Siemens
4	CPU1-1 CPU1-2	SIMATIC S7-1500H, CPU 1517H system bundle consisting of 2 x CPU 1517H-3 PN, 4 sync modules up to 10 m. 2 x sync cables 1 m without memory card	6ES7517-3HP00-0AB0	2	pcs	Siemens
5		SIMATIC S7 Memory Card, 24 MB	6ES7954-8LF03-0AA0	2	pcs	Siemens
6		SIMATIC S7-1500H synchronization module for patch cable to 10 m	6ES7960-1CB00-0AA5	4	pcs	Siemens
7		SIMATIC S7-1500H sync connecting cable fiber-optic cable 1 m	6ES7960-1BB00-5AA5	2	pcs	Siemens
8		SIMATIC Modbus/TCP Red for S7-1200/S7-1500, single license	6AV6676-6MB40-0AX0	1	pcs	Siemens
9	B1S0	ET 200SP, IM155-6PN/2 HF	6ES7155-6AU01-0CNO	1	pcs	Siemens
10		ET 200SP, Busadapter BA 2xRJ45	6ES7193-6AR00-0AA0	1	pcs	Siemens
11	B1S(1...9)	ET 200SP, DI 16x 24V DC ST, PU 1	6ES7131-6BH01-0BA0	9	pcs	Siemens
12	B1S(10,11)	ET 200SP, DQ 16x 24V DC/0,5A ST, PU 1	6ES7132-6BH01-0BA0	2	pcs	Siemens
13	B1S(12...17)	ET 200SP, AI 8x 2-/4-Wire Basic	6ES7134-6GF00-0AA1	6	pcs	Siemens
14	B1S18	ET 200SP, AQ 4xU/I ST	6ES7135-6HD00-0BA1	1	pcs	Siemens
15	B1S(1,6,10,12,15,18)	BaseUnit Type A0, BU15-P16+A0+2D	6ES7193-6BP00-0DA0	6	pcs	Siemens
16	B1S(2...5,7...9,11,13,14,16,17)	BaseUnit Type A0, BU15-P16+A0+2B	6ES7193-6BP00-0BA0	12	pcs	Siemens
17	TBA(11,12,13) TBD(11,12,13)	Knife disconnect terminal block	3046171	196	pcs	Phoenix Contact
18	TBA(12,13) TBD(11,12)	Fuse modular terminal block	3046090	40	pcs	Phoenix Contact
19	TBA(11...13) TBD(11,12)	Feed-through terminal block - UT 2,5	3044076	228	pcs	Phoenix Contact
20	RY11	Relay Module - PLC-RSC- 24DC/21	2966171	32	pcs	Phoenix Contact
21	SC1-1	SCALANCE S615 LAN router; for protection of devices/networks in automation technology and for protection of industrial communication by means of VPN and firewall; Further functions: address conversion (NAT/NAPT), connection to SINEMA RC, 5-port switch, 1x dig. input, 1x digital output.	6GK5615-0AA00-2AA2	1	pcs	Siemens
22	SC1-2	SCALANCE XC208 manageable Layer 2 Ethernet switch; IEC 62443-4-2 certified; 8x 10/100 Mbit/s RJ45 ports; 1x console port; diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant C-plug slot;	6GK5208-0BA00-2AC2	1	pcs	Siemens
23	SC1-(3...6)	SCALANCE XB008G unmanaged Industrial Ethernet Switch for 10/100/1000 Mbit/s; for setting up small star and line topologies; LED diagnostics, IP20, 24 V DC power supply, with 8x 10/100/1000 Mbit/s RJ45 ports electrical Manual available as a download .	6GK5008-0GA10-1AB2	4	pcs	Siemens
24	CO1-(1...4)	Industrial 10/100BaseT(X) to 100BaseFX media converter, single-mode, SC connector	IMC-21-S-SC	4	pcs	MOXA
25	SPD(1,2)	Type 3 low-voltage surge arrester consisting of protective plug and base element for integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 24 V AC/DC	2907916	2	pcs	Phoenix Contact
26	SO1-1	Socket - EO-CF/PT/LED/GN	804041	1	pcs	Phoenix Contact
27	XAC1-1 XDC1-(1,4)	Feed-through terminal block - Uk 5	3004016	7	pcs	Phoenix Contact
28	XAC1-2 XDC1-(2,3,5,6) TBT1-1	Feed-through terminal block - Uk 3	3002018	96	pcs	Phoenix Contact
29	Q1-1	MCB 2P, 6A	A9F74206	1	pcs	Schneider
30	Q1-3	MCB 2P, 10A	A9F74210	1	pcs	Schneider
31	Q1-2	MCB 2P, 20A	A9F74220	1	pcs	Schneider
32	F1-(1,3)	Fuse 0.5A	DF2CA005	2	pcs	Schneider
33	F1-(4...18,20...22)	Fuse 2A	DF2CA02	18	pcs	Schneider
34	F1-19	Fuse 10A	DF2CA10	1	pcs	Schneider
35	F1-(2,23)	Fuse 32A	DF2CA32	2	pcs	Schneider
36		Fuse holder	A9N15636	23	pcs	Schneider
37	R1-1	Relay 220V 8 Pin	MY2N-GS-AC220/240	1	pcs	Omron
38		Relay base 220V 8 Pin	PYFZ-08-E	1	pcs	Omron

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 IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

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 ABBR. FOR ISSUE  
 C = CUSTOMER  
 L = LICENSOR  
 F = FIELD  
 V = VENDOR

MAIN CONSULTANT:  
 TTCL VIETNAM CORPORATION LIMITED  
 TVC JOB ACCOUNT CUSTOMERS ORDER  
 No. VD-174 No.

SUB CONSTRUCTOR:  
 EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
 Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang City

LAYOUT DRAWING  
 Equipment List for PLC-SYS-01  
 SCALE N/A DWG. NO. SCADA-08-001  
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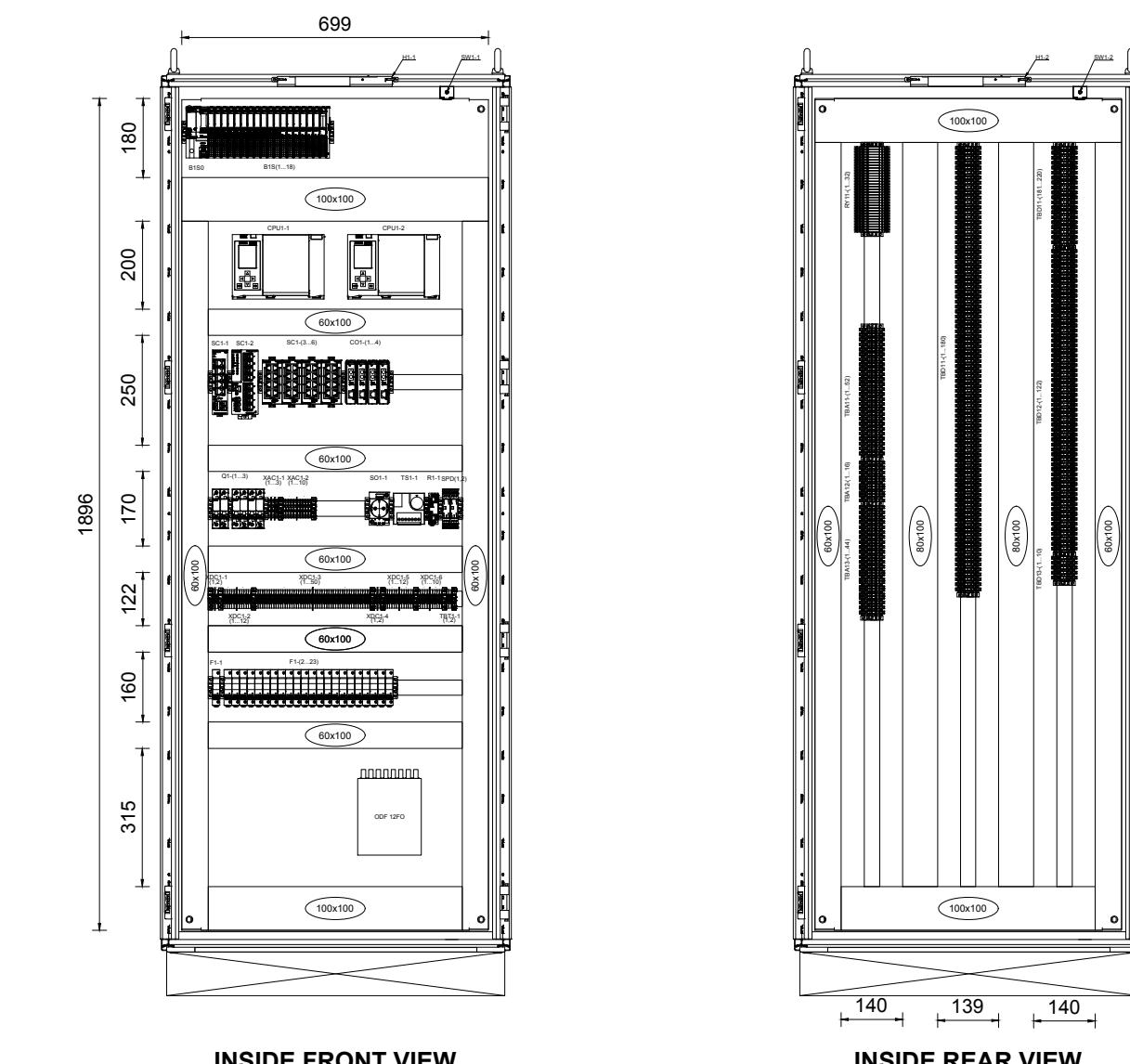
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5	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	09/05/2023
4	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	15/12/2022
2	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	25/11/2022
1	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		F V	17/10/2022
0	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN. CHKD A/E CHEIF MGR. APPR. ISSUE DATE DD/MM/YY  
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province

THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, EMBODIES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

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L = LICENSOR  
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MAIN CONSULTANT: TTCL VIETNAM CORPORATION LIMITED  
TVC JOB ACCOUNT CUSTOMER'S ORDER  
No. VD-174 No.

SUB CONSTRUCTOR: EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
ESTEC Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Hoa Lien, Hoa Vang, Da Nang City

LAYOUT DRAWING  
Inside View for PLC-SYS-01  
SCALE N/A DWG. NO. SCADA-08-001  
12/20

No	Tagname	Equipment description	Order code	Q'ty	Unit	Manufacturer
1	PLC-MR-01	PS SMART WHD 800x2000x800, RAL7035, 02 MTL, front&rear door	7187753	1	set	Rittal
2	H2-1, H2-2 SW2-1, SW2-2 TS2-1	Side panel 2200H800D (pk of 2) SO2848 100MM PLINTH WD 800x800 SZ2514 A4 Wiring Plan pocket SZ Enclosure Light LED 400, 100-240V SZ Power supply 2 pole SZ Door - operated switch SK Thermostat SK Filter fan 105m³/h 230V 50/60Hz SK Outlet filter for SK 3239.1xx	7187226 2848200 2514000 2500100 2500420 2500460 3110000 3239100 3239200	1	set	Rittal
3	B2S0	ET 200SP, IM155-6PN/2 HF	6ES7155-6AU01-0CN0	1	pcs	Siemens
4		ET 200SP, Busadapter BA 2xRJ45	6ES7193-6AR00-0AA0	1	pcs	Siemens
5	B2S(1...9)	ET 200SP, DI 16x 24V DC ST, PU 1	6ES7131-6BH01-0BA0	9	pcs	Siemens
6	B2S(10...13)	ET 200SP, DQ 16x 24V DC/0,5A ST, PU 1	6ES7132-6BH01-0BA0	4	pcs	Siemens
7	B2S(14...32)	ET 200SP, AI 8xI 2-/4-Wire Basic	6ES7134-6GF00-0AA1	19	pcs	Siemens
8	B2S(33...35)	ET 200SP, AQ 4xU/I ST	6ES7135-6HD00-0BA1	3	pcs	Siemens
9	B2S(1,6,10,14, 19,24,29,33)	BaseUnit Type A0, BU15-P16+A0+2D	6ES7193-6BP00-0DA0	8	pcs	Siemens
10	B2S(2...5,7...9, 11...13,15...18, 20...23,25...28, 30...32)	BaseUnit Type A0, BU15-P16+A0+2B	6ES7193-6BP00-0BA0	27	pcs	Siemens
11	TBA(21...28) TBD(21...27)	Knife disconnect terminal block	3046171	308	pcs	Phoenix Contact
12	TBD27 TBS(21,22)	Fuse modular terminal block	3046090	64	pcs	Phoenix Contact
13	TBA(21...28) TBD(21...27) TBS(21,22)	Feed-through terminal block - UT 2,5	3044076	372	pcs	Phoenix Contact
14	RY(21,22,23)	Relay Module - PLC-RSC- 24DC/21	2966171	64	pcs	Phoenix Contact
15	XAC2-1 XDC2-(1,3)	Feed-through terminal block - Ux 5	3004016	7	pcs	Phoenix Contact
16	XAC2-2 XDC2-(2,4) TBT2-1	Feed-through terminal block - Ux 3	3002018	48	pcs	Phoenix Contact
17	Q2-1	MCB 2P, 6A	A9F74206	1	pcs	Schneider
18	Q2-3	MCB 2P, 10A	A9F74210	1	pcs	Schneider
19	Q2-2	MCB 2P, 20A	A9F74220	1	pcs	Schneider
20	F2-(1,2)	Fuse 0.5A	DF2CA005	2	pcs	Schneider
21	F2-(3...5,7...10)	Fuse 2A	DF2CA02	7	pcs	Schneider
22	F2-(6,11)	Fuse 10A	DF2CA10	2	pcs	Schneider
23		Fuse holder	A9N15636	11	pcs	Schneider
24	R2-1	Relay 220V 8 Pin	MY2N-GS-AC220/240	1	pcs	Omron
25		Relay base 220V 8 Pin	PYFZ-08-E	1	pcs	Omron

5	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	09/05/2023
4	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	15/12/2022
2	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	25/11/2022
1	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	17/10/2022
0	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	15/09/2022

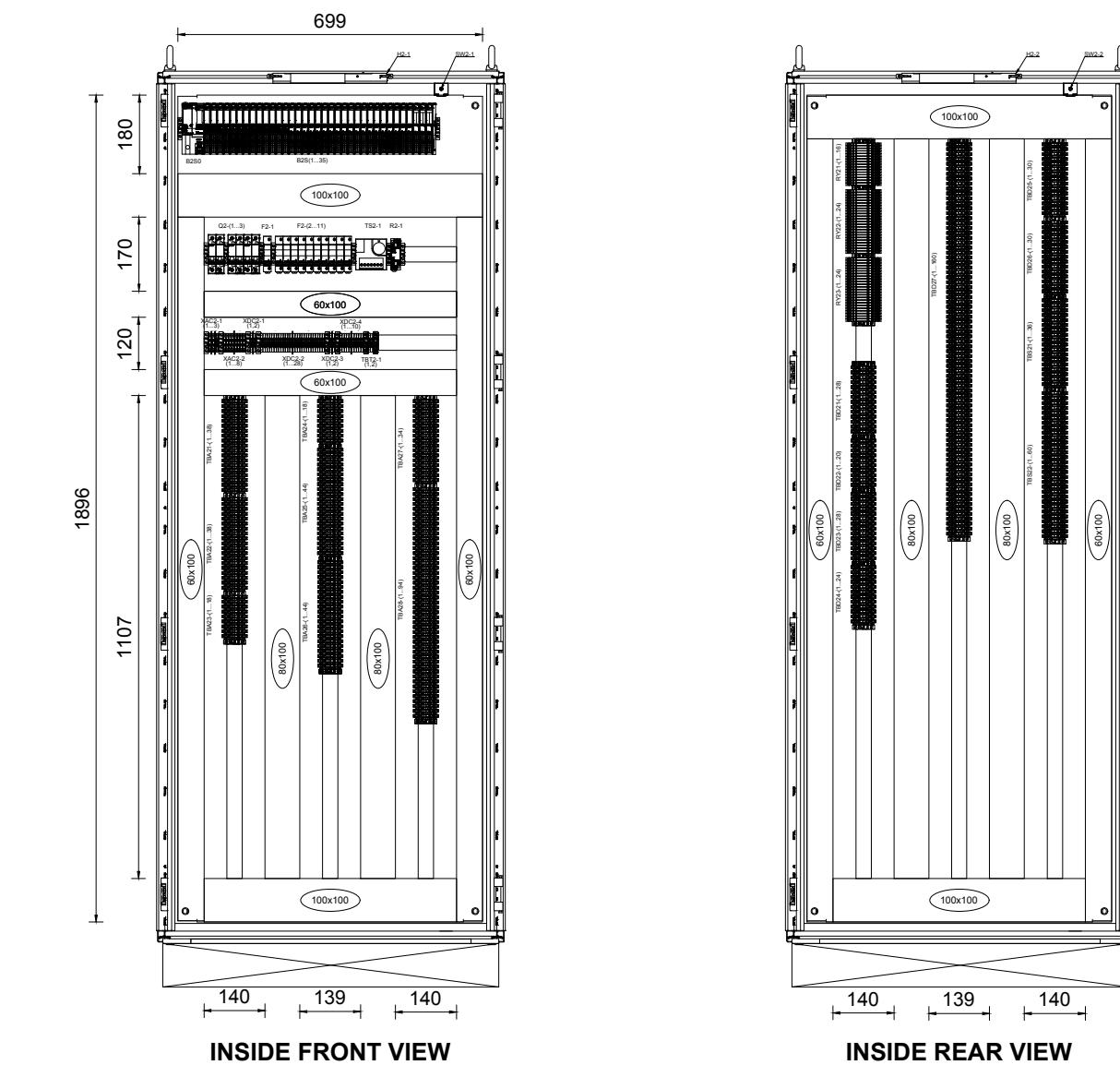
REV. DESCRIPTION DWN. CHKD A/E CHEIF MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT:  
**1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT**OWNER:  
**IDEMITSU**  
IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENBODYES CONFIDENTIAL  
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F = FIELD  
V = VENDORMAIN CONSULTANT:  
**TTCL VIETNAM CORPORATION LIMITED**  
TVC JOB ACCOUNT CUSTOMERS ORDER  
No. VD-174 No.SUB CONSTRUCTOR:  
**ESTEC**  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang City

LAYOUT DRAWING

Equipment List for PLC-MR-01

SCALE N/A DWG. NO. SCADA-08-001



**INSIDE FRONT VIEW**

**INSIDE REAR VIEW**

	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L F V	09/05/2022	
A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L F V	15/12/2022	
A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L F V	25/11/2022	
A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L F V	17/10/2022	
A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L F V	15/09/2022	
IV.	DESCRIPTION	DWN.	CHKD	A/E	CHIEF	MGR.	APPR.	ISSUE DATE DD/MM/YY

1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

WNER:  
 IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY  
Hai Phong District, Da Nang Province

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C = CUSTOMER  
L = LICENSEE  
F = FIELD  
V = VENDOR

**AIN CONSULTANT:** **TTCL VIETNAM CORPORATION LIMITED** **ISSUE MARK:**  
 **TTC JOB** **ACCOUNT** **CUSTOMER'S ORDER**  
**IWC** **No. WD-174** **\_\_\_\_\_** **\_\_\_\_\_**  
**UB CONSTRUCTOR:** **EAST SEA TECHNOLOGY ENGINEERING**  
 **ESTEC** **ELECTRICAL AUTOMATION CO.,LTD**  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City

LAYOUT DRAWING

Inside View for PLC-MR-01

SCALE N/A DWG. NO. SCADA-08-001

No	Tagname	Equipment description	Order code	Q'ty	Unit	Manufacturer
1	PLC-MR-02	PS SMART WHD 800x2000x800, RAL7035, 02 MTL, front&rear door	7187753	1	set	Rittal
2	H3-1, H3-2 SW3-1, SW3-2 TS3-1	Side panel 2200H800D (pk of 2) SO2848 100MM PLINTH WD 800x800 SZ2514 A4 Wiring Plan pocket SZ Enclosure Light LED 400, 100-240V SZ Power supply 2 pole SZ Door - operated switch SK Thermostat SK Filter fan 105m³/h 230V 50/60Hz SK Outlet filter for SK 3239.1xx	7187226 2848200 2514000 2500100 2500420 2500460 3110000 3239100 3239200	1	set	Rittal
3	B3S0	ET 200SP, IM155-6PN/2 HF	6ES7155-6AU01-0CN0	1	pcs	Siemens
4		ET 200SP, Busadapter BA 2xRJ45	6ES7193-6AR00-0AA0	1	pcs	Siemens
5	B3S(1...11)	ET 200SP, DI 16x 24V DC ST, PU 1	6ES7131-6BH01-0BA0	11	pcs	Siemens
6	B3S(12...14)	ET 200SP, DQ 16x 24V DC/0,5A ST, PU 1	6ES7132-6BH01-0BA0	3	pcs	Siemens
7	B3S(15...28)	ET 200SP, AI 8xI 2-/4-Wire Basic	6ES7134-6GF00-0AA1	14	pcs	Siemens
8	B3S(29...32)	ET 200SP, AQ 4xU/I ST	6ES7135-6HD00-0BA1	4	pcs	Siemens
9	B3S(1,5,9,12,15, 20,25,29)	BaseUnit Type A0, BU15-P16+A0+2D	6ES7193-6BP00-0DA0	8	pcs	Siemens
10	B3S(2...4,6...8,10, 11,13,14,16...19, 21...24,26...28 30...32)	BaseUnit Type A0, BU15-P16+A0+2B	6ES7193-6BP00-0BA0	24	pcs	Siemens
11	TBA(31...35) TBD(31...37)	Knife disconnect terminal block	3046171	304	pcs	Phoenix Contact
12	TBD(31,32,33,35, 37) TBS31	Fuse modular terminal block	3046090	65	pcs	Phoenix Contact
13	TBA(31...35) TBD(31...37) TBS31	Feed-through terminal block - UT 2,5	3044076	352	pcs	Phoenix Contact
14	RY(31...35)	Relay Module - PLC-RSC- 24DC/21	2966171	48	pcs	Phoenix Contact
15	XAC3-1 XDC3(1,3)	Feed-through terminal block - UK 5	3004016	7	pcs	Phoenix Contact
16	XAC3-2 XDC3(2,4) TBT3-1	Feed-through terminal block - UK 3	3002018	50	pcs	Phoenix Contact
17	Q3-1	MCB 2P, 6A	A9F74206	1	pcs	Schneider
18	Q3-3	MCB 2P, 10A	A9F74210	1	pcs	Schneider
19	Q3-2	MCB 2P, 20A	A9F74220	1	pcs	Schneider
20	F3-(1,2)	Fuse 0.5A	DF2CA005	2	pcs	Schneider
21	F3-(3..6,8...10)	Fuse 2A	DF2CA02	7	pcs	Schneider
22	F3-(7,11,12)	Fuse 10A	DF2CA10	3	pcs	Schneider
23		Fuse holder	A9N15636	12	pcs	Schneider
24	R3-1	Relay 220V 8 Pin	MY2N-GS-AC220/240	1	pcs	Omron
25		Relay base 220V 8 Pin	PYFZ-08-E	1	pcs	Omron

5	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	09/05/2023
4	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	15/12/2022
2	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	25/11/2022
1	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	17/10/2022
0	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	15/09/2022

REV. DESCRIPTION DWN. CHKD A/E CHEIF MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT:  
**1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT**

OWNER:  
**IDEMITSU**  
IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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V = VENDOR

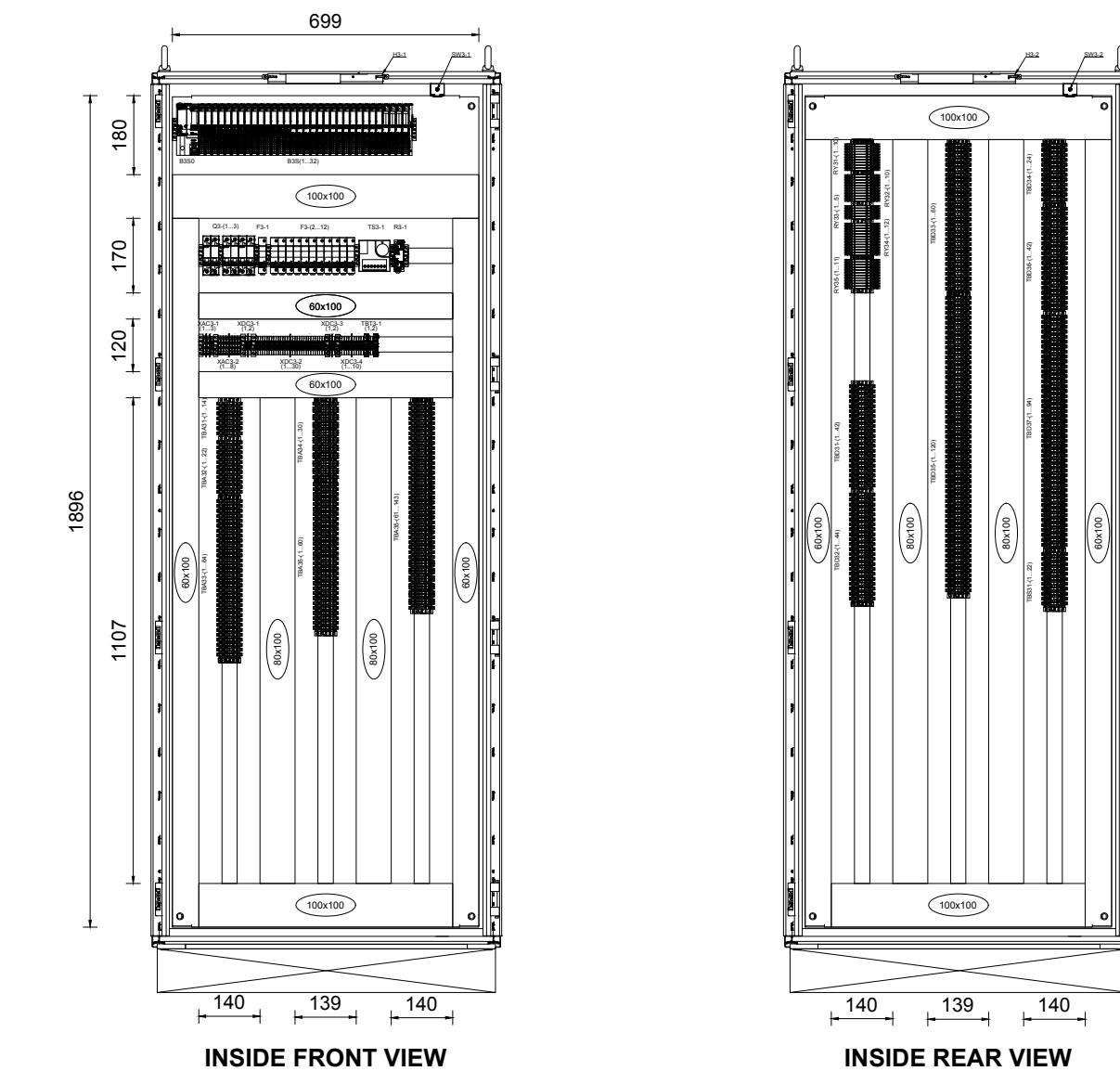
MAIN CONSULTANT:  
**TTCL VIETNAM CORPORATION LIMITED**  
TVC JOB ACCOUNT CUSTOMERS ORDER  
No. No.

SUB CONSTRUCTOR:  
**ESTEC**  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang City

LAYOUT DRAWING  
Equipment List for PLC-MR-02

SCALE N/A DWG. NO. SCADA-08-001

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A	ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V		C L F V	09/05/2022
A	ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V		C L F V	15/12/2022
A	ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V		C L F V	25/11/2022
A	ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V		C L F V	17/10/2022
A	ISSUED FOR APPROVAL	L.V.P	H.L.	P.T.V		C L F V	15/09/2022
REV.	DESCRIPTION				DWN. CHKD A/E CHIEF MGR APPR.	ISSUE DATE DD/MM/YY	

## 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY  
Hai Nhieu District, Binh Dinh Province

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**MAIN CONSULTANT:** **TTCL VIETNAM CORPORATION LIMITED** **ISSUE MARK A**  
 **TTCL** **JOB** **ACCOUNT** **CUSTOMER'S ORDER**  
**TVC** **No. VD-174** \_\_\_\_\_ **No.** \_\_\_\_\_

**SUB CONTRACTOR:** **EAST SEA TECHNOLOGY ENGINEERING**  
 **ESTEC** **ELECTRICAL AUTOMATION CO.,LTD**  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
 Factory: Block A14, Prod No. 1, Nguen Hiep Street, Hoa Binh, Hoa Vang, Da Nang

# LAYOUT DRAWING

## Inside View for PLC-MR-02

SCALE N/A DWG. NO. SCADA-08-001

No	Tagname	Equipment description	Order code	Q'ty	Unit	Manufacturer
1	PLC-MR-03	PS SMART WHD 800x2000x800, RAL7035, 02 MTL, front&rear door	7187753	1	set	Rittal
2	H4-1, H4-2 SW4-1, SW4-2 TS4-1	Side panel 2200H800D (pk of 2) SC2848 100MM PLINTH WD 800x800 SZ2514 A4 Wiring Plan pocket SZ Enclosure Light LED 400, 100-240V SZ Power supply 2 pole SZ Door - operated switch SK Thermostat SK Filter fan 105m³/h 230V 50/60Hz SK Outlet filter for SK 3239.1xx	7187226 2848200 2514000 2500100 2500420 2500460 3110000 3239100 3239200	1	set	Rittal
3	B4S0	ET 200SP, IM155-6PN/2 HF	6ES7155-6AU01-0CN0	1	pcs	Siemens
4		ET 200SP, Busadapter BA 2xRJ45	6ES7193-6AR00-0AA0	1	pcs	Siemens
5	B4S(1...17)	ET 200SP, DI 16x 24V DC ST, PU 1	6ES7131-6BH01-0BA0	17	pcs	Siemens
6	B4S(18...27)	ET 200SP, DQ 16x 24V DC/0,5A ST, PU 1	6ES7132-6BH01-0BA0	10	pcs	Siemens
7	B4S(28...32)	ET 200SP, AI 8xI 2-/4-Wire Basic	6ES7134-6GF00-0AA1	5	pcs	Siemens
8	B4S(33...41)	ET 200SP, AQ 4xU/I ST	6ES7135-6HD00-0BA1	9	pcs	Siemens
9	B4S(1,6,11,16,18, 22,25,28,33,38)	BaseUnit Type A0, BU15-P16+A0+2D	6ES7193-6BP00-0DA0	10	pcs	Siemens
10	B4S(2...5,7...10, 12...15,17,19...21, 23,24,26,27, 29...31,32...37)	BaseUnit Type A0, BU15-P16+A0+2B	6ES7193-6BP00-0BA0	31	pcs	Siemens
11	TBA(41,42,43)	Knife disconnect terminal block	3046171	76	pcs	Phoenix Contact
12	TBD(41...48)	Fuse modular terminal block	3046090	432	pcs	Phoenix Contact
13	TBA(41...43) TBD(41...48)	Feed-through terminal block - UT 2,5	3044076	508	pcs	Phoenix Contact
14	RY(41,43,45,47)	Relay Module - PLC-RSC- 24DC/21	2966171	160	pcs	Phoenix Contact
15	XAC4-1 XDC4(1,3)	Feed-through terminal block - Uk 5	3004016	7	pcs	Phoenix Contact
16	XAC4-2 XDC4(2,4) TBT4-1	Feed-through terminal block - Uk 3	3002018	52	pcs	Phoenix Contact
17	Q4-1	MCB 2P, 6A	A9F74206	1	pcs	Schneider
18	Q4-3	MCB 2P, 10A	A9F74210	1	pcs	Schneider
19	Q4-2	MCB 2P, 20A	A9F74220	1	pcs	Schneider
20	F4-(1,2)	Fuse 0.5A	DF2CA005	2	pcs	Schneider
21	F4-(3...7,11,12)	Fuse 2A	DF2CA02	7	pcs	Schneider
22	F4-(8,9,10,13)	Fuse 10A	DF2CA10	4	pcs	Schneider
23		Fuse holder	A9N15636	13	pcs	Schneider
24	R4-1	Relay 220V 8 Pin	MY2N-GS-AC220/240	1	pcs	Omron
25		Relay base 220V 8 Pin	PYFZ-08-E	1	pcs	Omron

5	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	09/05/2023
4	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	15/12/2022
2	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	25/11/2022
1	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	17/10/2022
0	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	V	15/09/2022

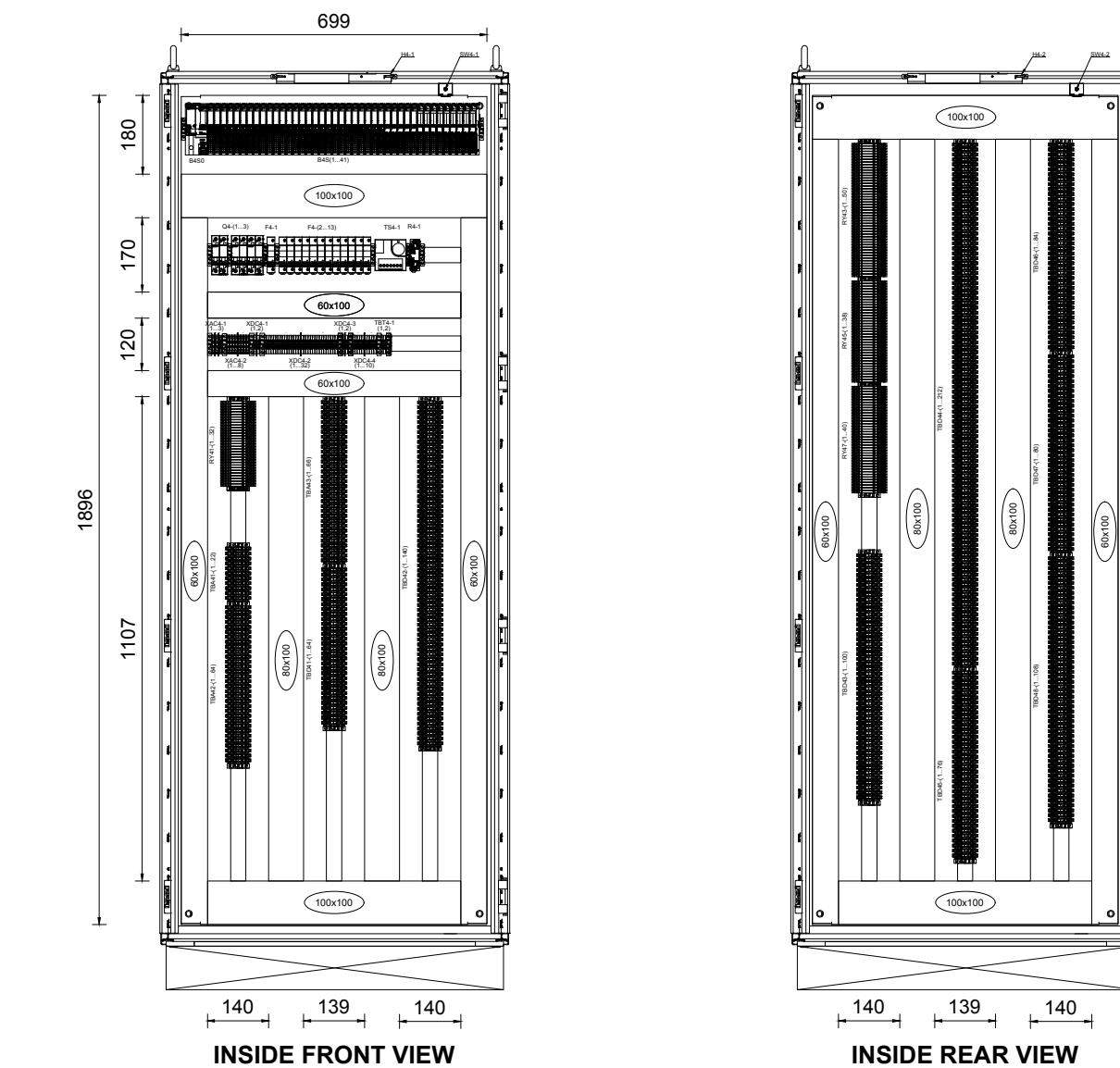
REV. DESCRIPTION DWN. CHKD A/E CHEEF MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT:  
**1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT**OWNER:  
**IDEMITSU**  
IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSULTANT:  
**TTCL VIETNAM CORPORATION LIMITED**  
TVC JOB ACCOUNT CUSTOMERS ORDER  
No. No.SUB CONSTRUCTOR:  
**ESTEC**  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang CityLAYOUT DRAWING  
Equipment List for PLC-MR-03

SCALE N/A DWG. NO. SCADA-08-001



5	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	09/05/2023
4	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	15/12/2022
2	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	25/11/2022
1	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		F V	17/10/2022
0	A	ISSUED FOR APPROVAL	L.V.P.	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN. CHKD A/E CIEFL MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT:  
1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER:  
**IDEMITSU**  
IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSULTANT:  
**TTCL VIETNAM CORPORATION LIMITED**  
TVC JOB ACCOUNT CUSTOMER'S ORDER  
No. VD-174 No.

SUB CONSTRUCTOR:  
**ESTEC**  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang City

LAYOUT DRAWING

Inside View for PLC-MR-03

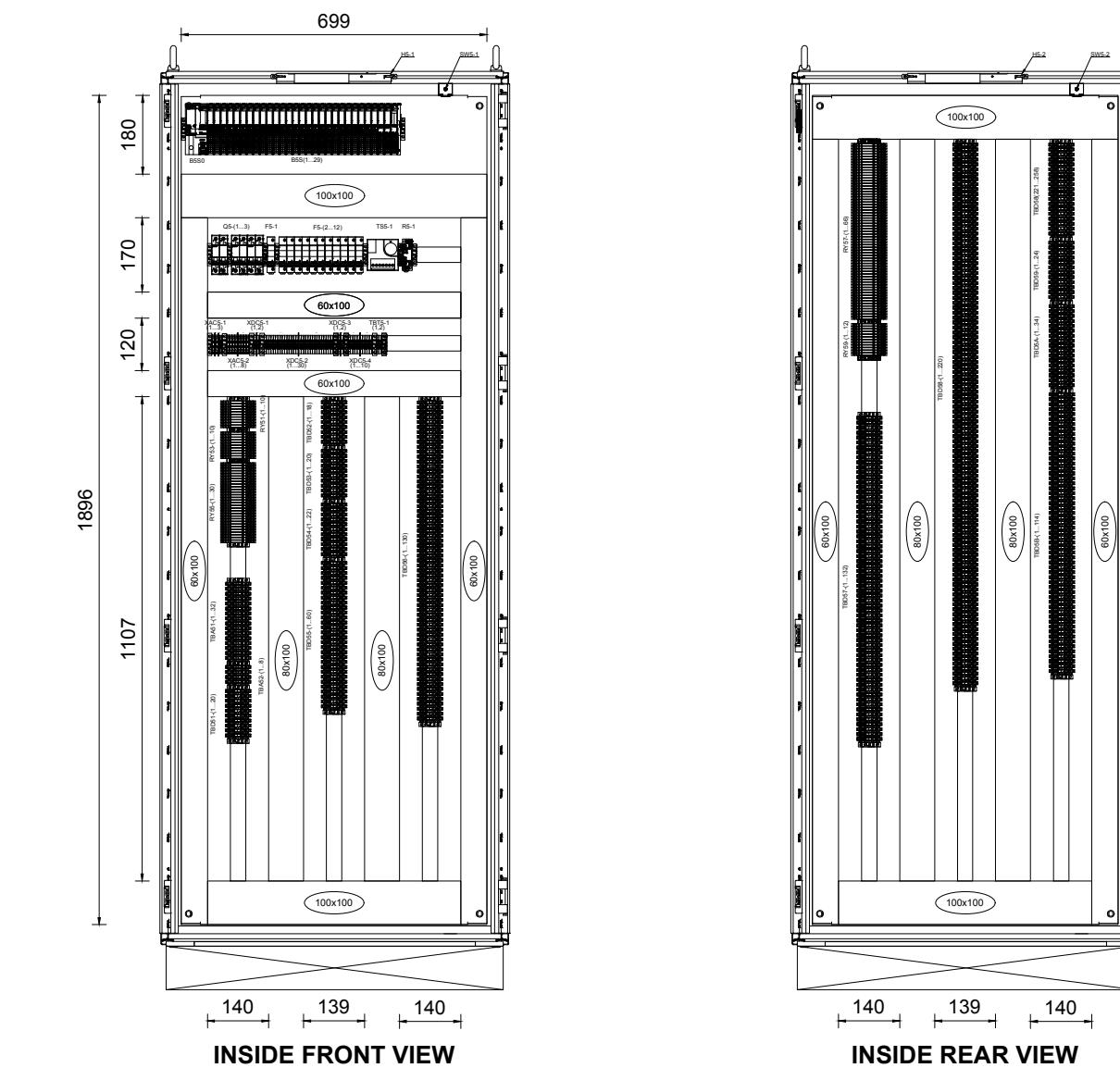
SCALE	N/A	DWG. NO.	SCADA-08-001
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No	Tagname	Equipment description	Order code	Q'ty	Unit	Manufacturer
1	PLC-MR-04	PS SMART WHD 800x2000x800, RAL7035, 02 MTL, front&rear door	7187753	1	set	Rittal
2	H5-1, H5-2 SW5-1, SW5-2 TS5-1	Side panel 2200H800D (pk of 2) SC2848 100MM PLINTH WD 800x800 SZ2514 A4 Wiring Plan pocket SZ Enclosure Light LED 400, 100-240V SZ Power supply 2 pole SZ Door - operated switch SK Thermostat SK Filter fan 105m³/h 230V 50/60Hz SK Outlet filter for SK 3239.1xx	7187226 2848200 2514000 2500100 2500420 2500460 3110000 3239100 3239200	1	set	Rittal
3	B5S0	ET 200SP, IM155-6PN/2 HF	6ES7155-6AU01-0CN0	1	pcs	Siemens
4		ET 200SP, Busadapter BA 2xRJ45	6ES7193-6AR00-0AA0	1	pcs	Siemens
5	B5S(1...18)	ET 200SP, DI 16x 24V DC ST, PU 1	6ES7131-6BH01-0BA0	18	pcs	Siemens
6	B5S(19...26)	ET 200SP, DQ 16x 24V DC/0.5A ST, PU 1	6ES7132-6BH01-0BA0	8	pcs	Siemens
7	B5S(27,28)	ET 200SP, AI 8xI 2-/4-Wire Basic	6ES7134-6GF00-0AA1	2	pcs	Siemens
8	B5S29	ET 200SP, AQ 4xU/I ST	6ES7135-6HD00-0BA1	1	pcs	Siemens
9	B5S(1,6,11,16,19, 23,27,29)	BaseUnit Type A0, BU15-P16+A0+2D	6ES7193-6BP00-0DA0	8	pcs	Siemens
10	B5S(1...5,...10, 12...15,17,18, 20...22,24...26,28)	BaseUnit Type A0, BU15-P16+A0+2B	6ES7193-6BP00-0BA0	21	pcs	Siemens
11	TBA(51,52)	Knife disconnect terminal block	3046171	20	pcs	Phoenix Contact
12	TBD(51...59, 5A,5B)	Fuse modular terminal block	3046090	416	pcs	Phoenix Contact
13	TBA(51,52) TBD(51...59, 5A,5B)	Feed-through terminal block - UT 2,5	3044076	436	pcs	Phoenix Contact
14	RY(51,53,55, 57,59)	Relay Module - PLC-RSC- 24DC/21	2966171	128	pcs	Phoenix Contact
15	XAC5-1 XDC5-(1,3)	Feed-through terminal block - Uk 5	3004016	7	pcs	Phoenix Contact
16	XAC5-2 XDC5-(2,4) TB5-1	Feed-through terminal block - Uk 3	3002018	50	pcs	Phoenix Contact
17	Q5-1	MCB 2P, 6A	A9F74206	1	pcs	Schneider
18	Q5-3	MCB 2P, 10A	A9F74210	1	pcs	Schneider
19	Q5-2	MCB 2P, 20A	A9F74220	1	pcs	Schneider
20	F5-(1,2)	Fuse 0.5A	DF2CA005	2	pcs	Schneider
21	F5-(3...7,10,11)	Fuse 2A	DF2CA02	7	pcs	Schneider
22	F5-(8,9,12)	Fuse 10A	DF2CA10	3	pcs	Schneider
23		Fuse holder	A9N15636	12	pcs	Schneider
24	R5-1	Relay 220V 8 Pin	MY2N-GS-AC220/240	1	pcs	Omron
25		Relay base 220V 8 Pin	PYFZ-08-E	1	pcs	Omron

5	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	09/05/2023
4	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	15/12/2022
2	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	25/11/2022
1	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	17/10/2022
0	A	ISSUED FOR APPROVAL	L.VP	H.L.	P.TV		C L	15/09/2022

REV. DESCRIPTION DWN. CHKD A/E CHEIF MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT:  
1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER:  
 IDEMITSU GREEN ENERGY VIETNAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENBODYES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.  
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TVC JOB No. VD-174 ACCOUNT Customer's Order No.SUB CONSTRUCTOR:  
 EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO.,LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang CityLAYOUT DRAWING  
Equipment List for PLC-MR-04  
SCALE N/A DWG. NO. SCADA-08-001



5 A ISSUED FOR APPROVAL L.VP H.L P.TV C L V 09/05/2023  
 4 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F 15/12/2022  
 2 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F 25/11/2022  
 1 A ISSUED FOR APPROVAL L.VP H.L P.TV F V 17/10/2022  
 0 A ISSUED FOR APPROVAL L.VP H.L P.TV C L F 15/09/2022

REV. DESCRIPTION DWN. CHKD A/E CHEIF MGR. APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province

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MAIN CONSULTANT: TTCL VIETNAM CORPORATION LIMITED ISSUE MARK A  
 TVC JOB ACCOUNT CUSTOMERS ORDER  
 No. VD-174 No.

SUB CONSTRUCTOR: EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, Ho Chi Minh City  
 Factory: Block A14, Road No. 7, Da Nang HighTech Park, Hoa Lien, Hoa Vang, Da Nang City

## LAYOUT DRAWING

Inside View for PLC-MR-04

SCALE N/A DWG. NO. SCADA-08-001

# PROJECT: 1 ST BLACK PELLET COMMERCIAL PLANT

DOCUMENT TITLE: WIRING DIAGRAM FOR PLC CABINET

 IDEMITSU GREEN ENERGY VIETNAM LIMITED COMPANY (IGEV)			
Hoai Nhon Town, Binh Dinh Province, Viet Nam			
 EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD			
61 Le Duc Tho Street, Ward 7, Go Vap District, HCMC, Viet Nam Block A14, Road No. 7, Hightech Park, Hoa Lien, Hoa Vang, Da Nang, Viet Nam			
Project Co.	: ES09-A2202 BLACK PELLET PLANT		
P/O No.	: VD174-2000-0000-019		
Item No.	:		
Doc. No.	: SCADA-08-001	Rev.:	4

Pages: 182

## INDEX

## LEGEND AND SYMBOLS

SYMBOL		LEGEND	DESCRIPTION
SINGLE-LINE	MULTI-LINE		
		MCB	2 Poles Circuit breaker
		F	1 Pole Fuse
		SWD	Switch
		TS	Thermostat
		LAMP	Enclosure Light LED
		SO	Socket
		SPD	2 poles and PE Surge Arrester For DC Supply

SYMBOL		LEGEND	DESCRIPTION
SINGLE-LINE	MULTI-LINE		
		FAN	
		Indicator	
		XAC, XDC, TB	Terminal block
		TB	Fuse Modular Terminal Block
		TB	Knife Disconnect Terminal Block
		PE	Protective Ground

4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE	DATE
									DD/MM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT									
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY									
Hoai Nhon District, Binh Dinh Province									

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
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SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Legend and symbol

3  
182

SCALE 1/1 DWG. NO. SCADA-08-003

**SPECIFICATION**

Color Coding of Cable			
Type	Cable Color		
Power Cable	220VAC	L	Blue
		N	Brown
	24VDC	L+	Red
		M	Black
Control Circuit	24VDC	Digital Signal	White
	4-20 mA	Analog Signal	Yellow
Protective Earth	PE	Green Yellow cable	
Core diameter of Cable			
Power Cable	220VAC	1.5-2.5 sqmm	
	24 VDC	2.5-4 sqmm	
Control Cable	24 VDC	0.75/1.5 sqmm	

4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	23/11/2022
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0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V				C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
0/A ISSUED FOR APPROVAL TLM H.L. P.T.V. 15/09/2022

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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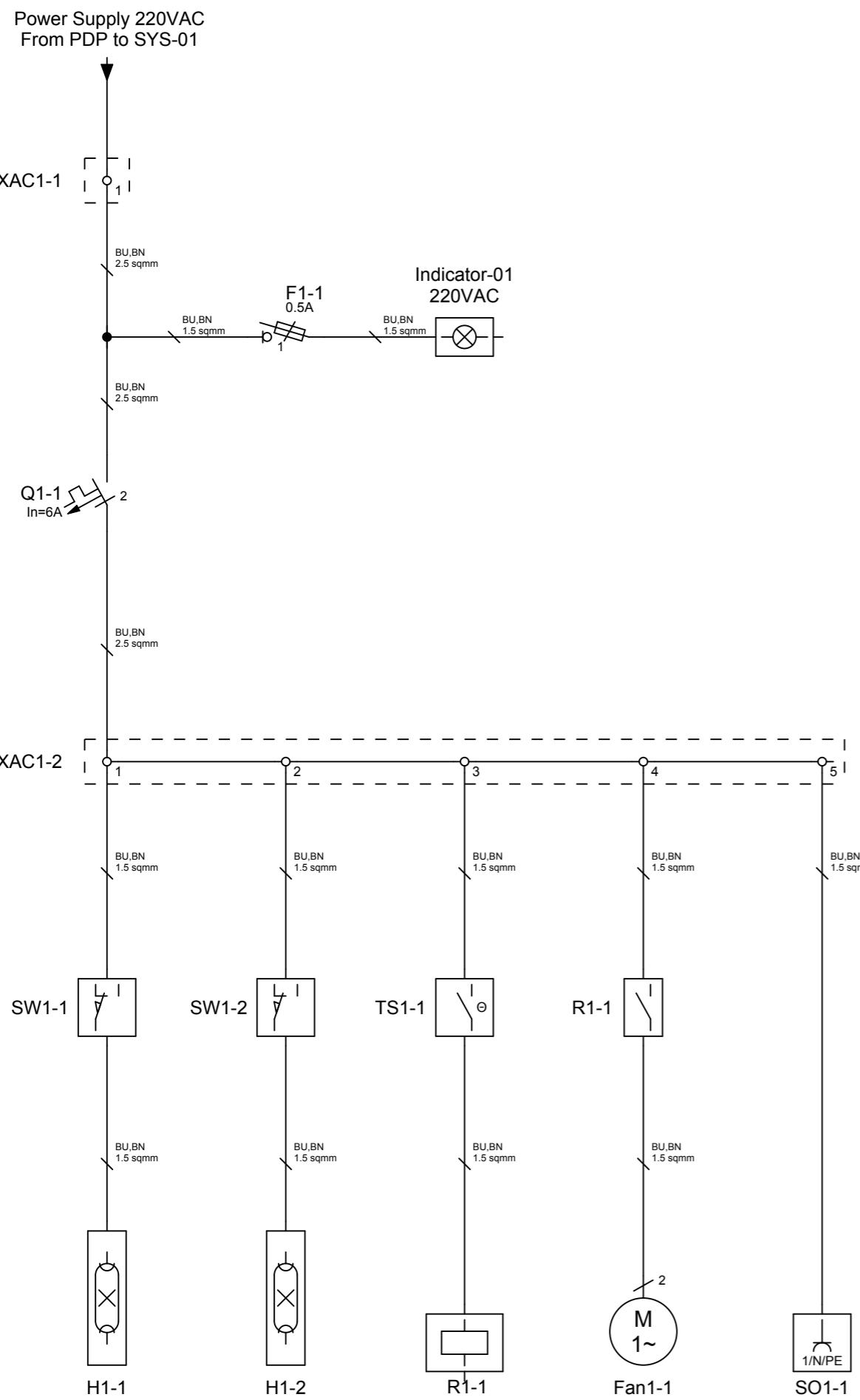
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Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

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A

4  
182

Specification

SCALE 1/1 DWG. NO. SCADA-08-003



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
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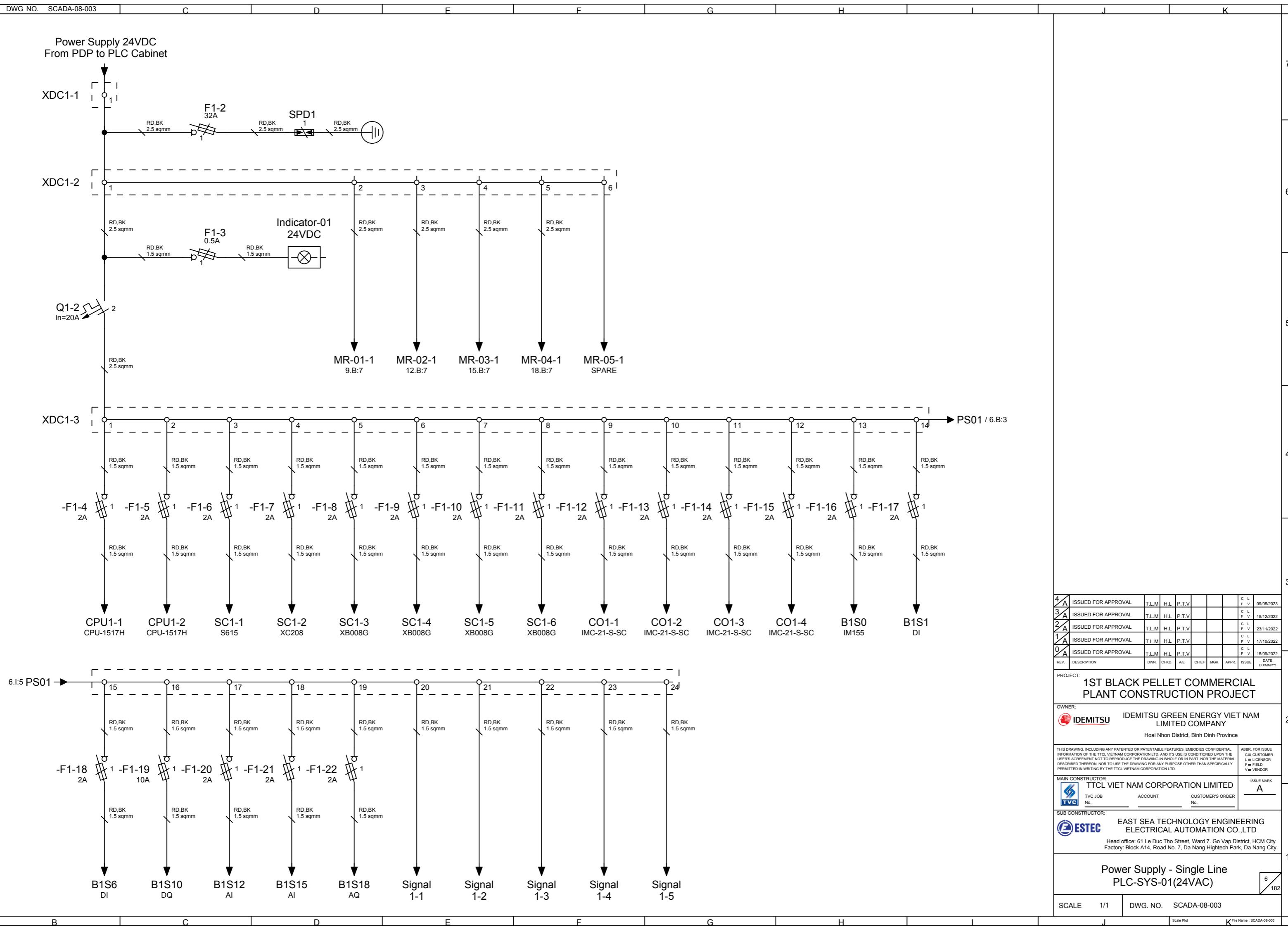
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PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
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ISSUE MARK A

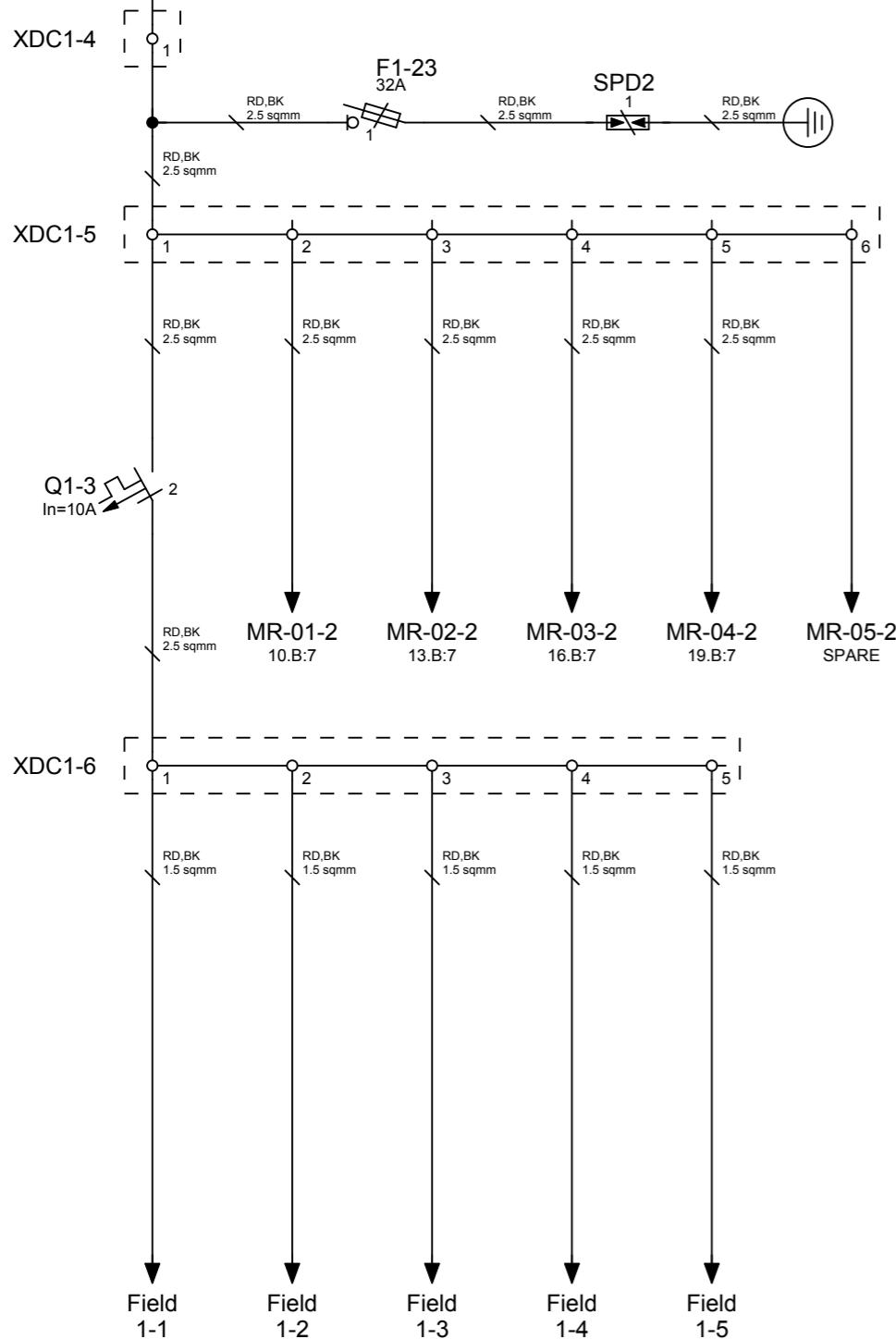
POWER SUPPLY - SINGLE LINE  
PLC-SYS-01 (220VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

5 182



Power Supply 24VDC  
From PDP to SOLENOID



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OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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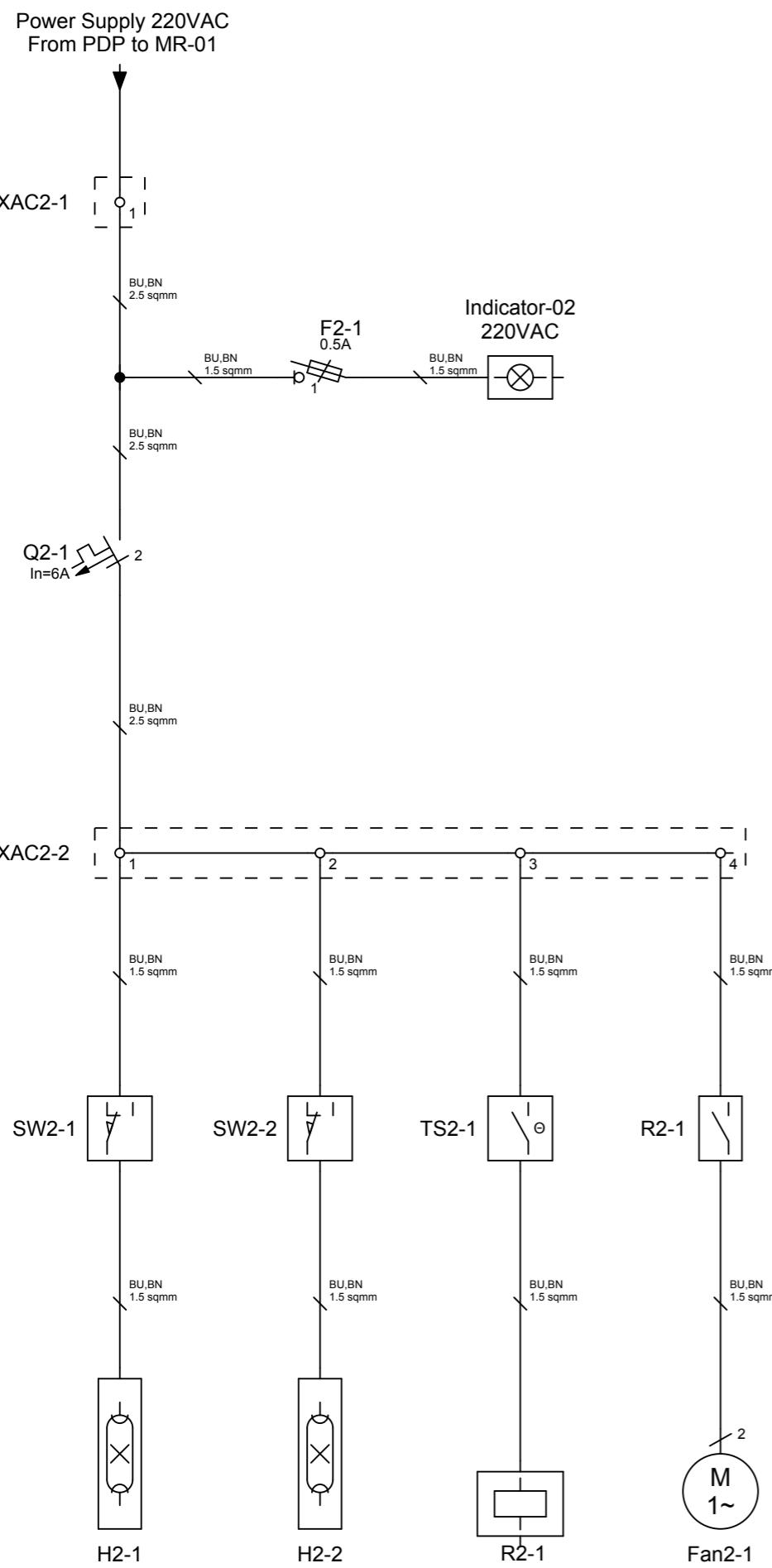
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Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Single Line  
PLC-SYS-01(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

7  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
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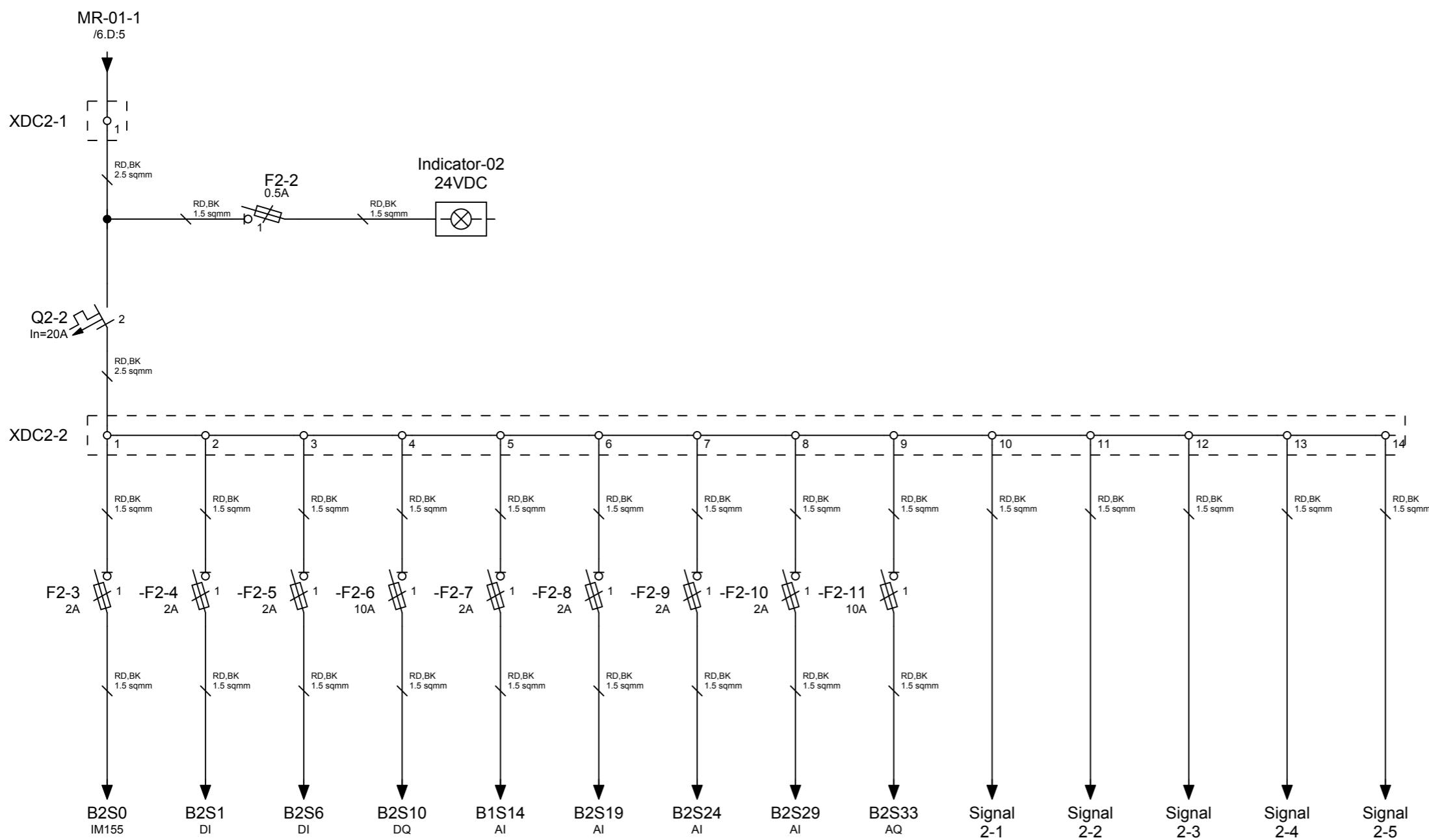
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING

ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.Power Supply - Single Line  
PLC-MR-01 (220VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

8  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
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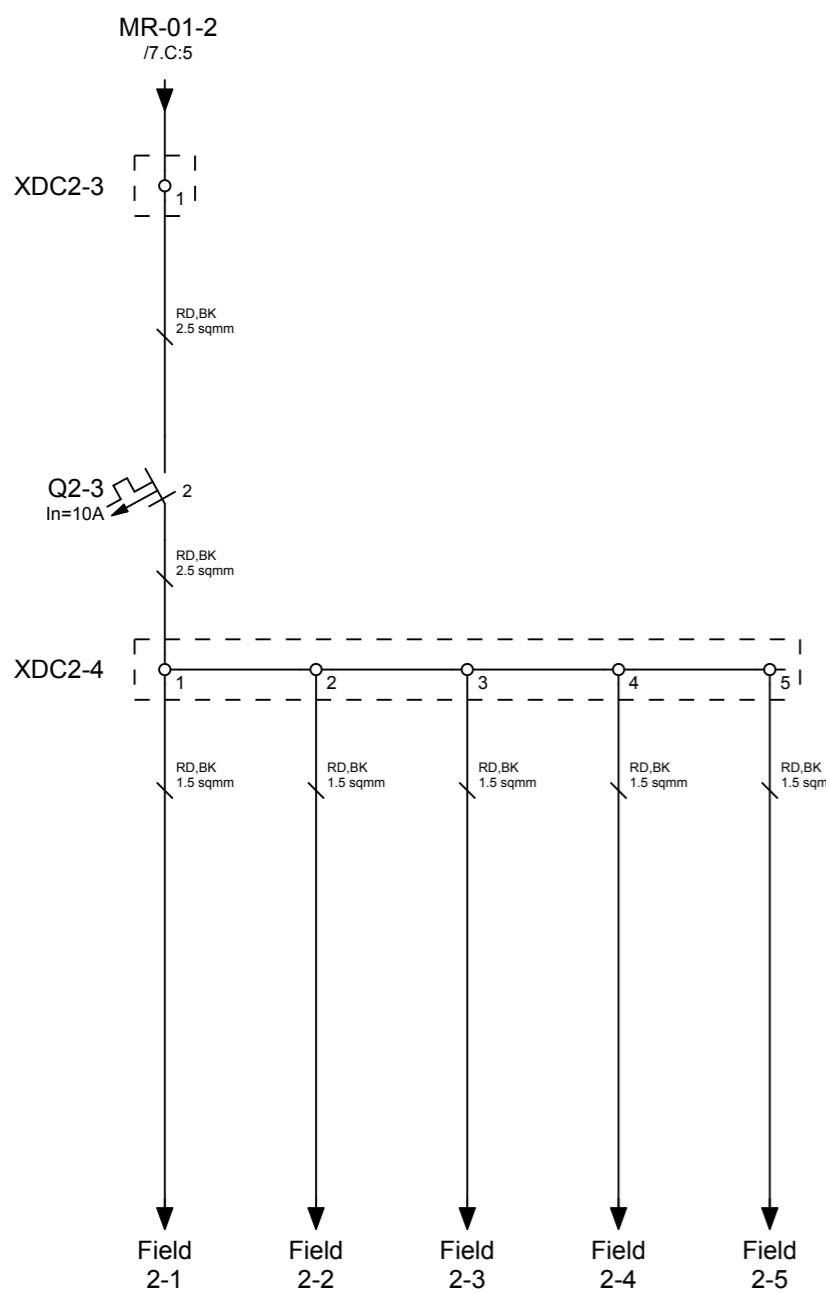
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Power Supply - Single Line  
PLC-MR-01(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

9  
182



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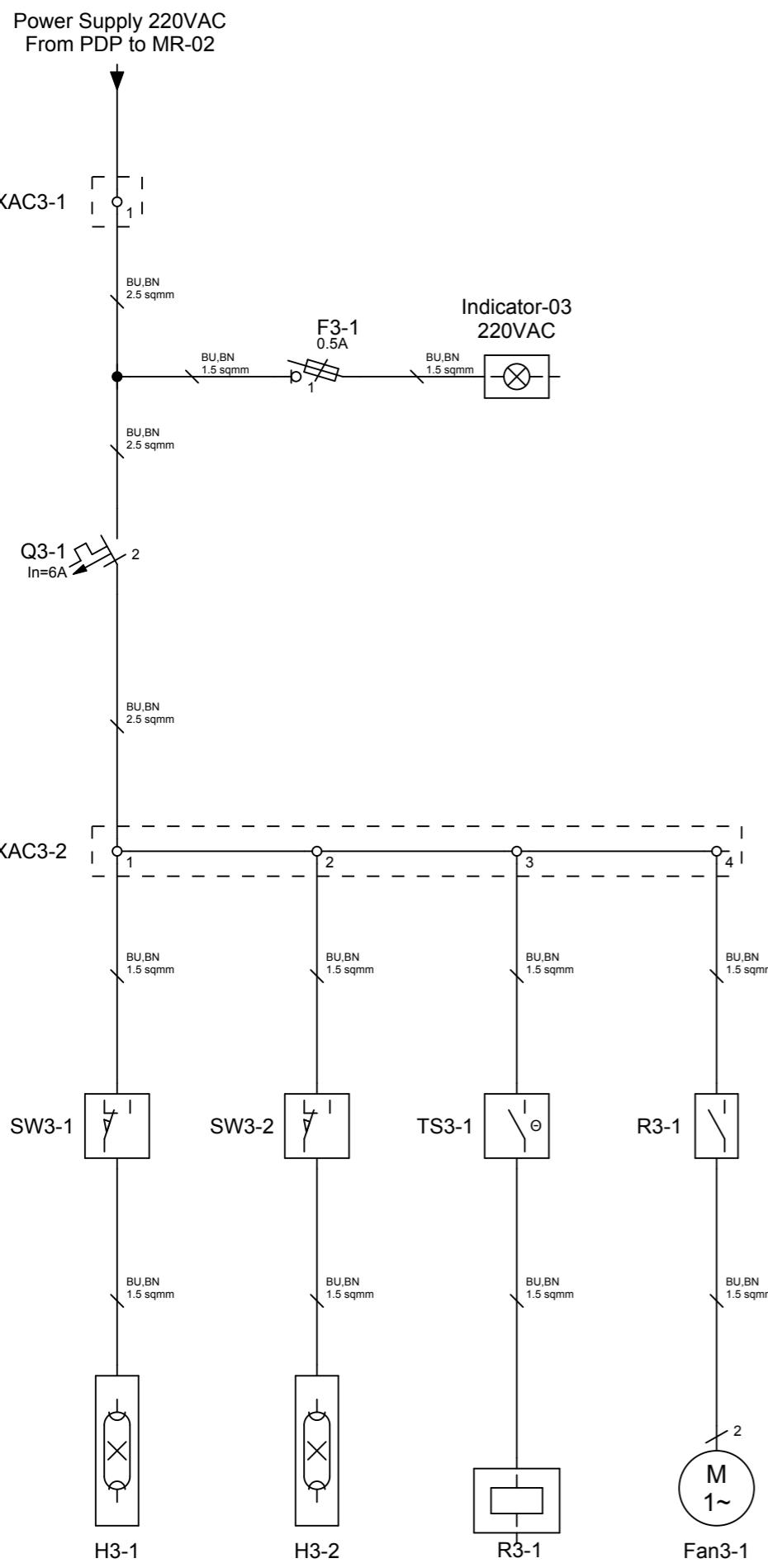
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Single Line  
PLC-MR-01(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

10  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

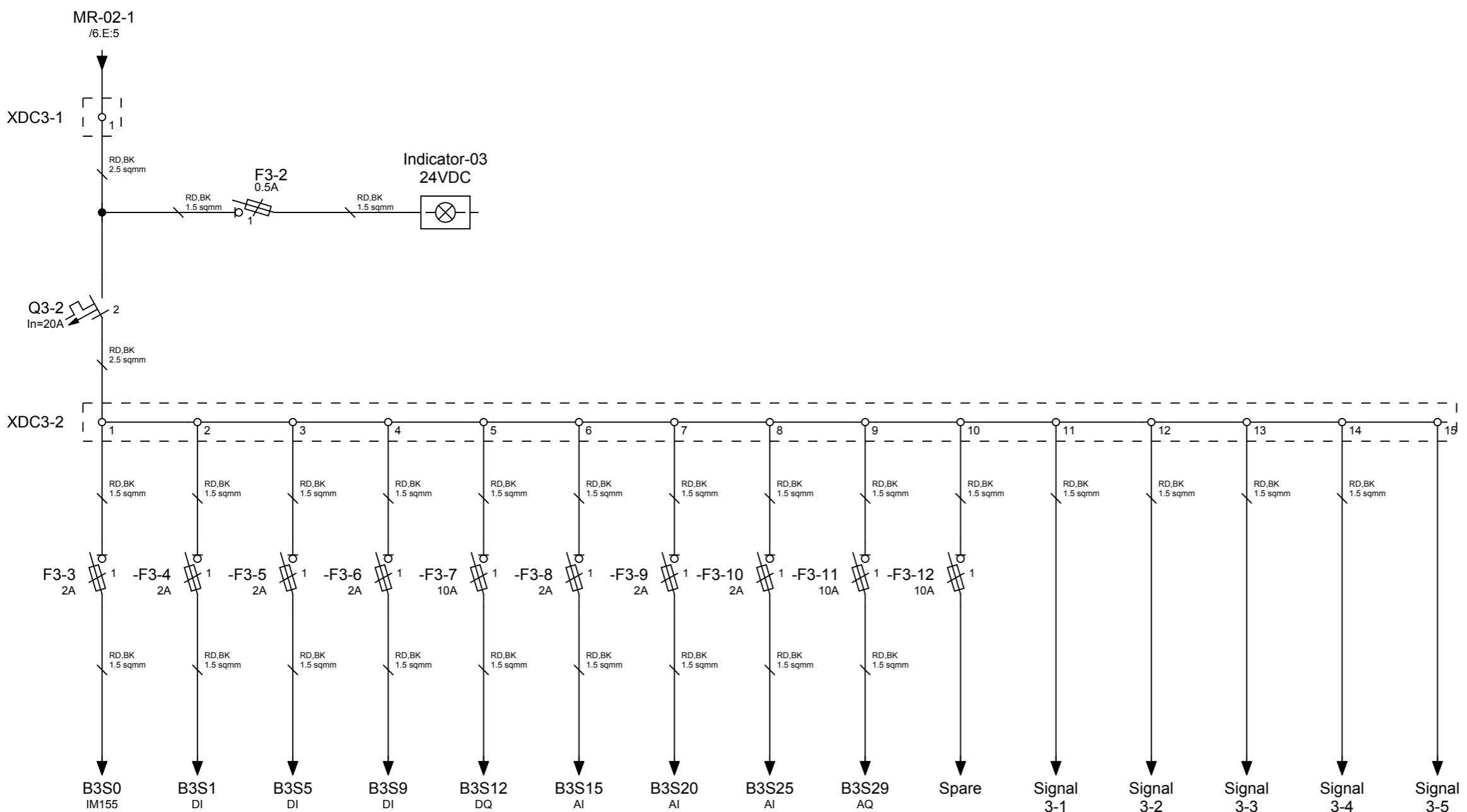
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

ISSUE MARK A

Power Supply - Single Line  
PLC-MR-02 (220VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

11  
182



4/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

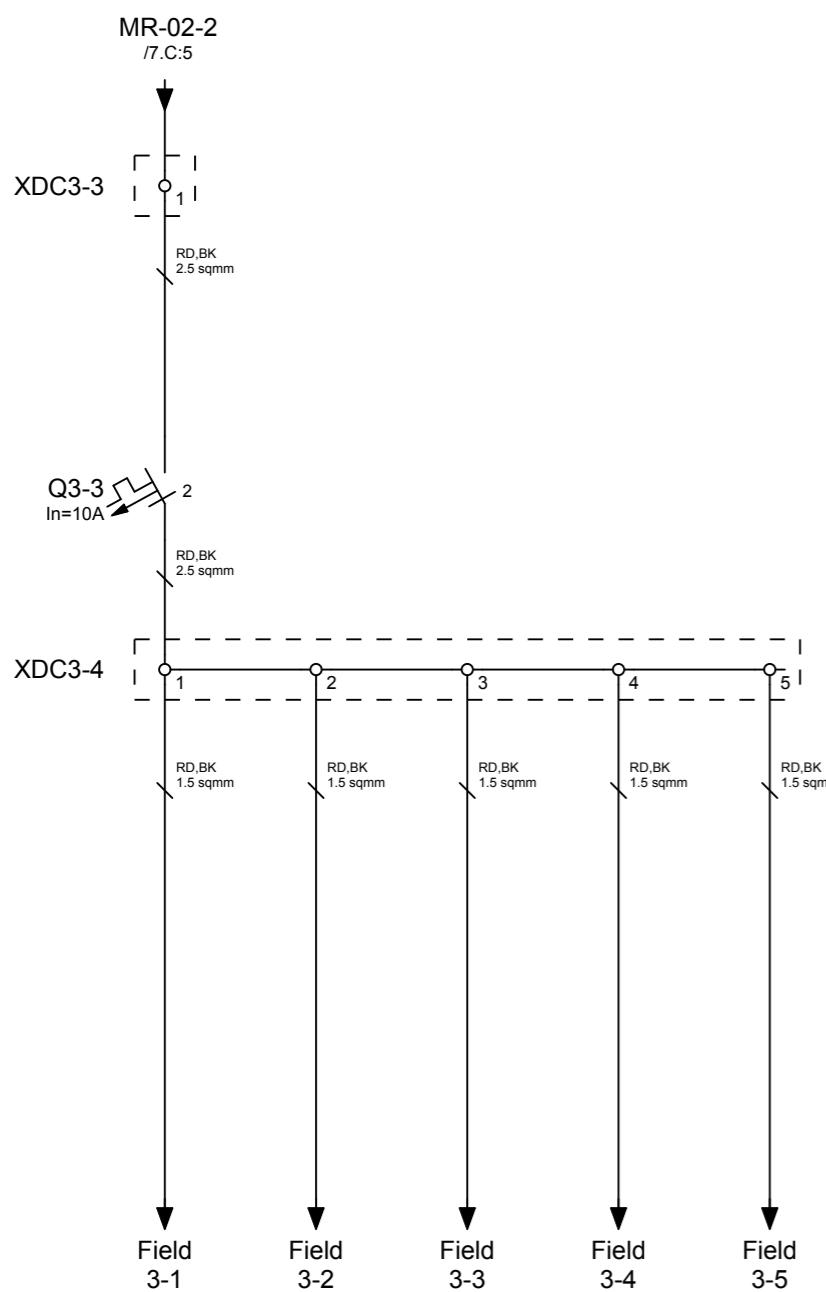
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Single Line  
PLC-MR-02(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

12  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

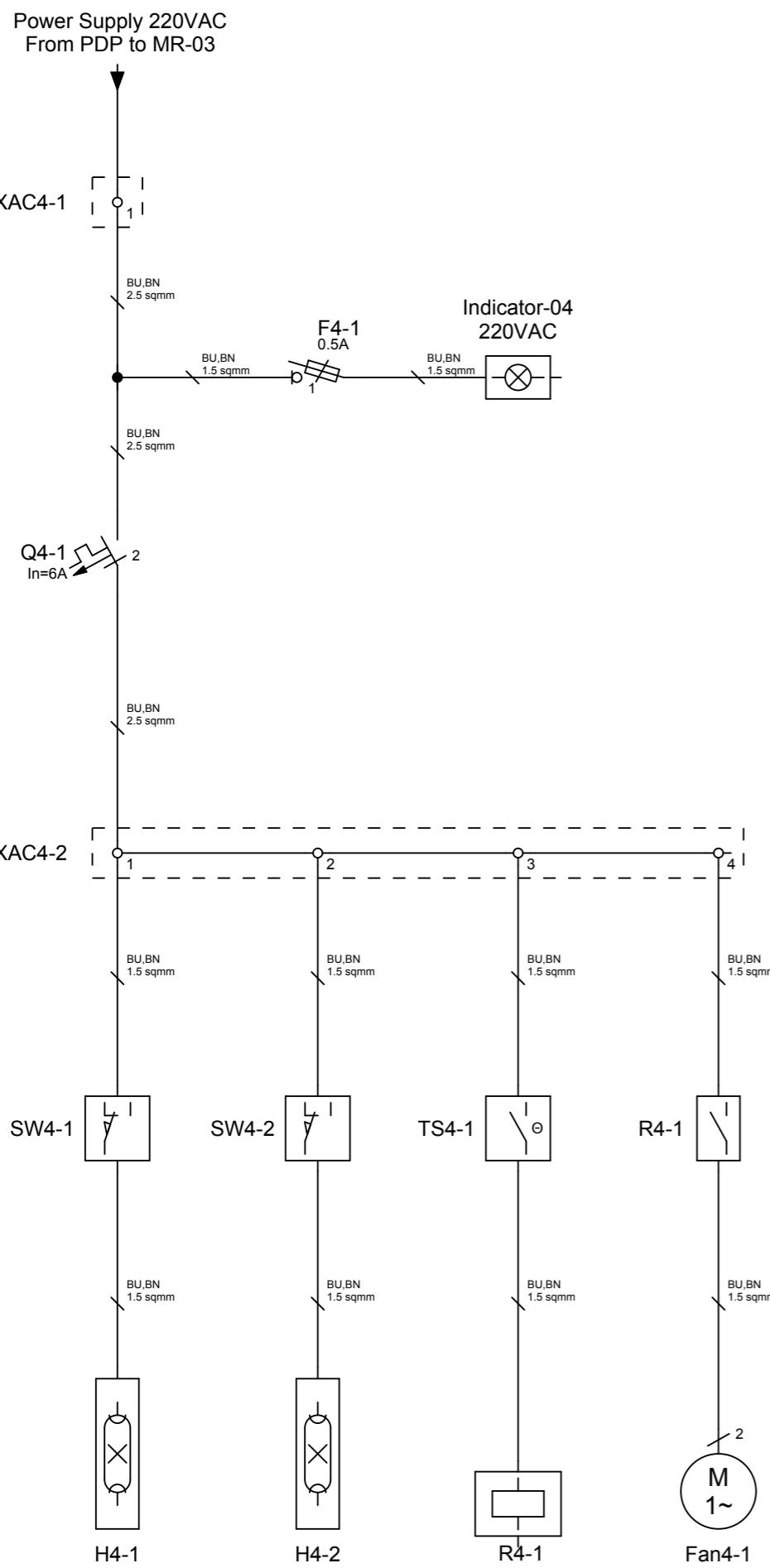
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Single Line  
PLC-MR-02(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

13  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

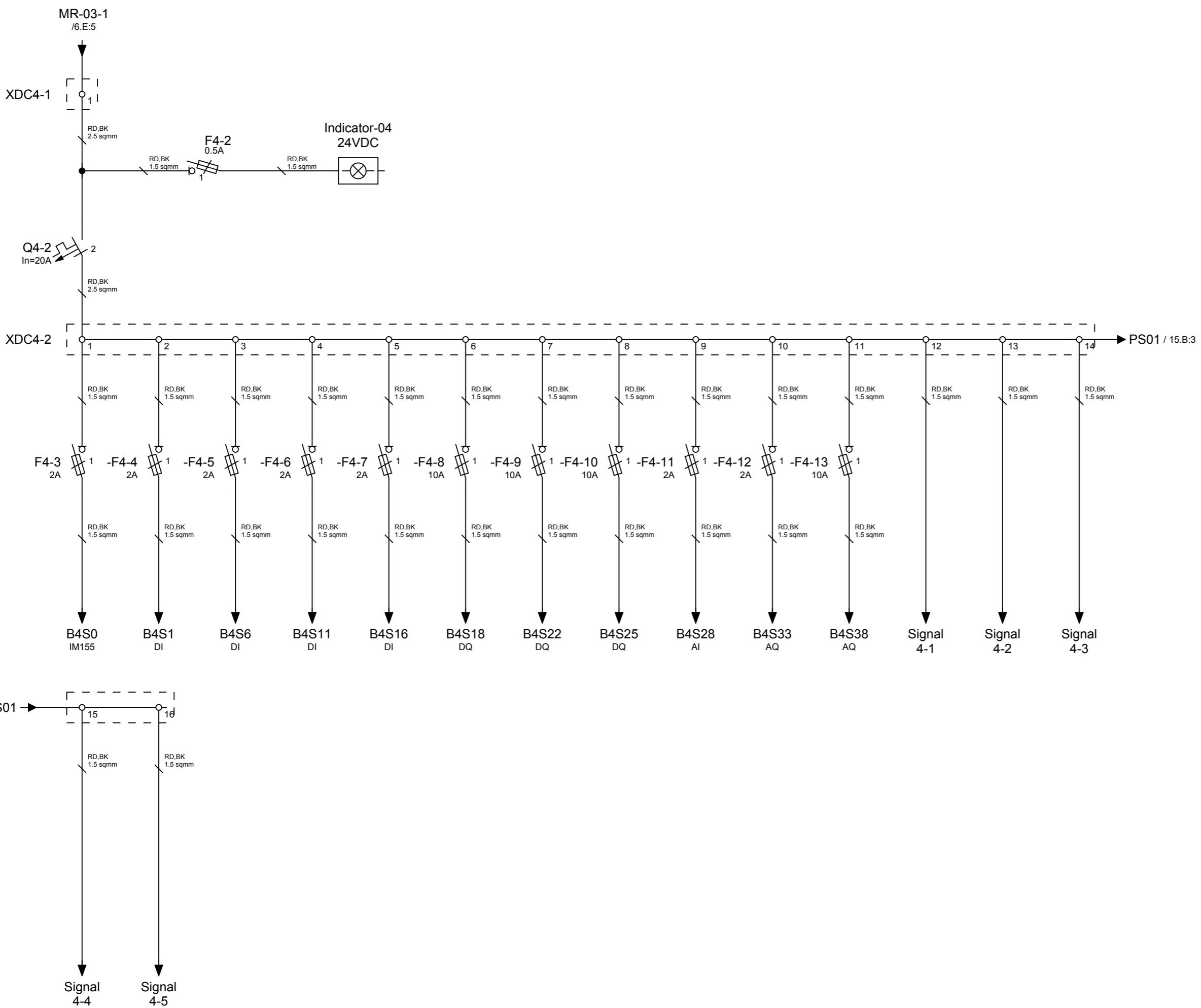
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

ISSUE MARK A

Power Supply - Single Line  
PLC-MR-03 (220VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

14  
182



4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/09/2022

# PLANT CONSTRUCTION PROJECT

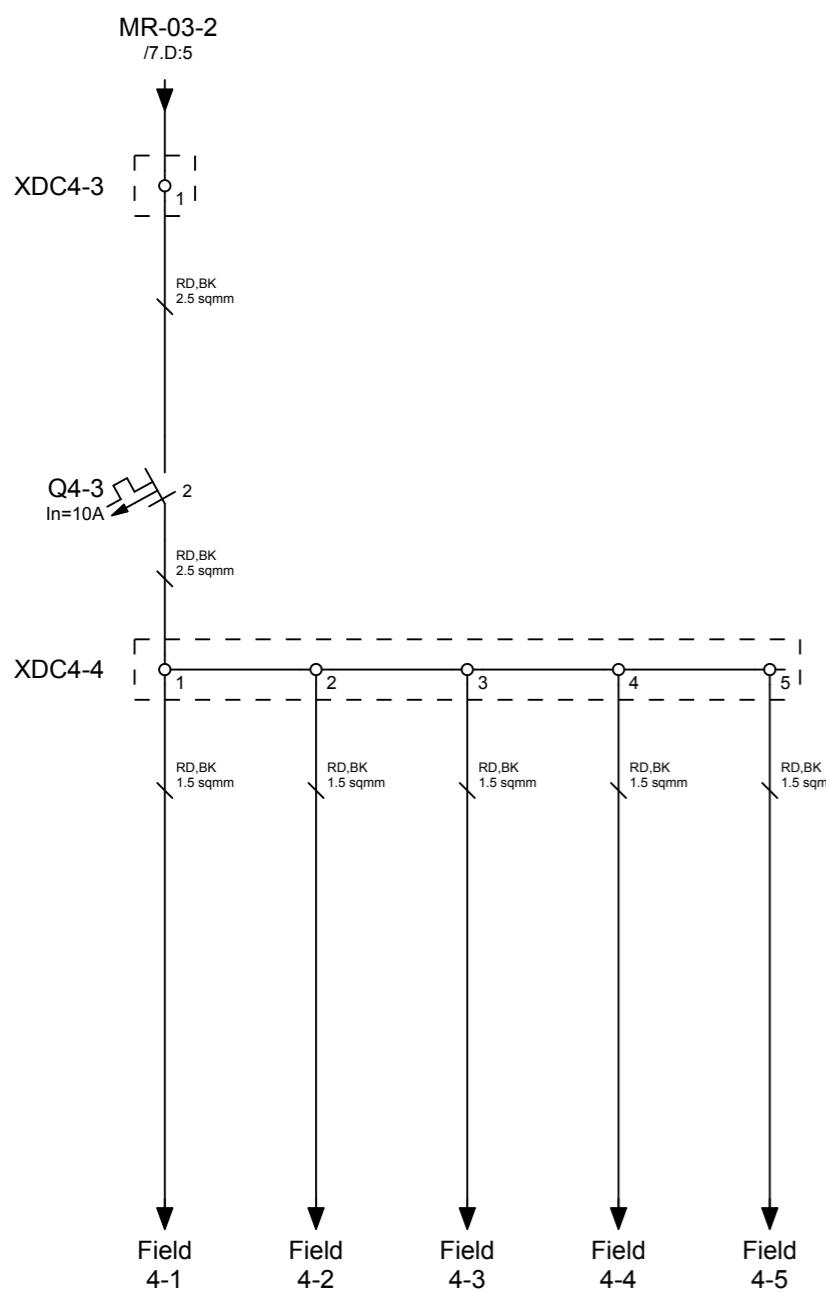
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Hoai Nhon District, Binh Dinh Province

MAIN CONSTRUCTOR:			TCL VIET NAM CORPORATION LIMITED		ISSUE MARK <b>A</b>
	TCL JOB No.	ACCOUNT	CUSTOMER'S ORDER No.		VENDOR
SUB CONSTRUCTOR:			EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD		
					

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

PLC-MR-03(24VAC) 15  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

DOMM/YY

PROJECT: **1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT**

OWNER: **IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY**

Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE: C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: **TTCL VIET NAM CORPORATION LIMITED**  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.

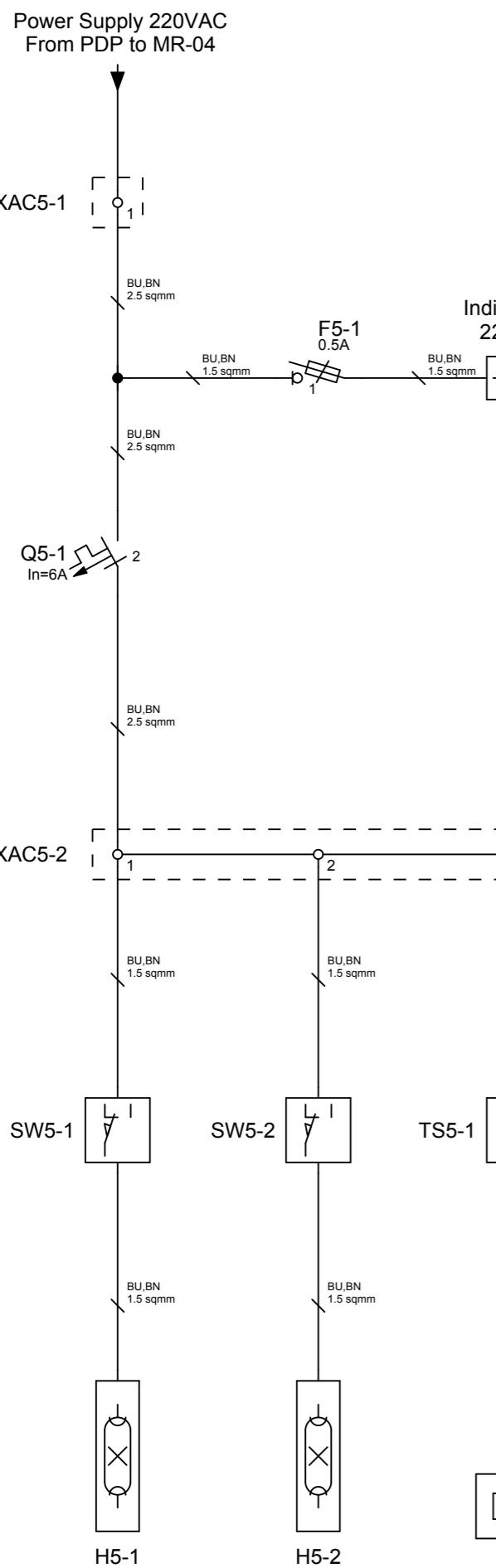
ISSUE MARK: **A**

SUB CONSTRUCTOR: **EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD**  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Single Line  
PLC-MR-03(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

16  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

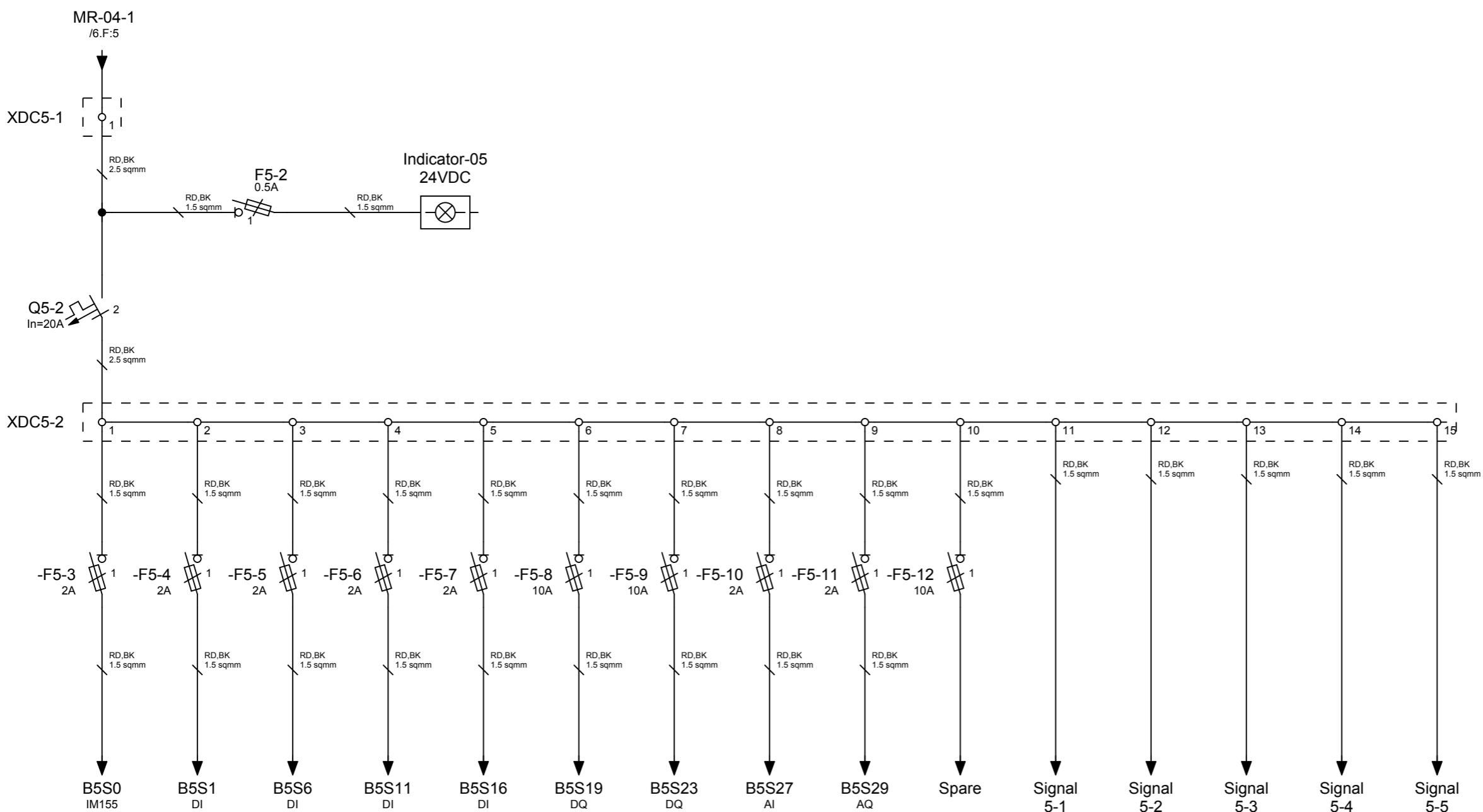
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCOMBSES CONFIDENTIAL  
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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

ISSUE MARK A

Power Supply - Single Line  
PLC-MR-04 (220VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

17  
182



4/A	ISSUED FOR APPROVAL	T.L.M	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	T.L.M	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	T.L.M	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	T.L.M	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	T.L.M	H.L.	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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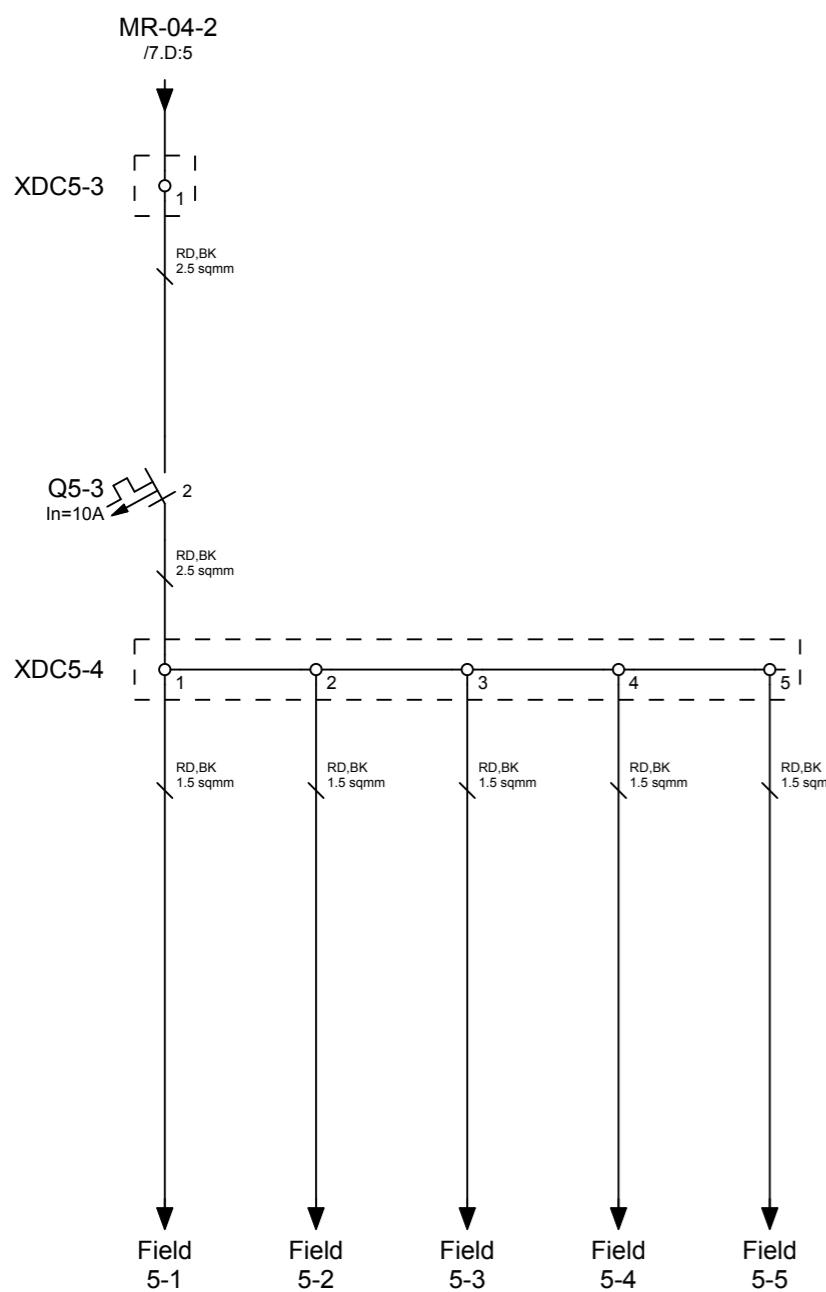
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

ISSUE MARK  
A

Power Supply - Single Line  
PLC-MR-04(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

18  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE: C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

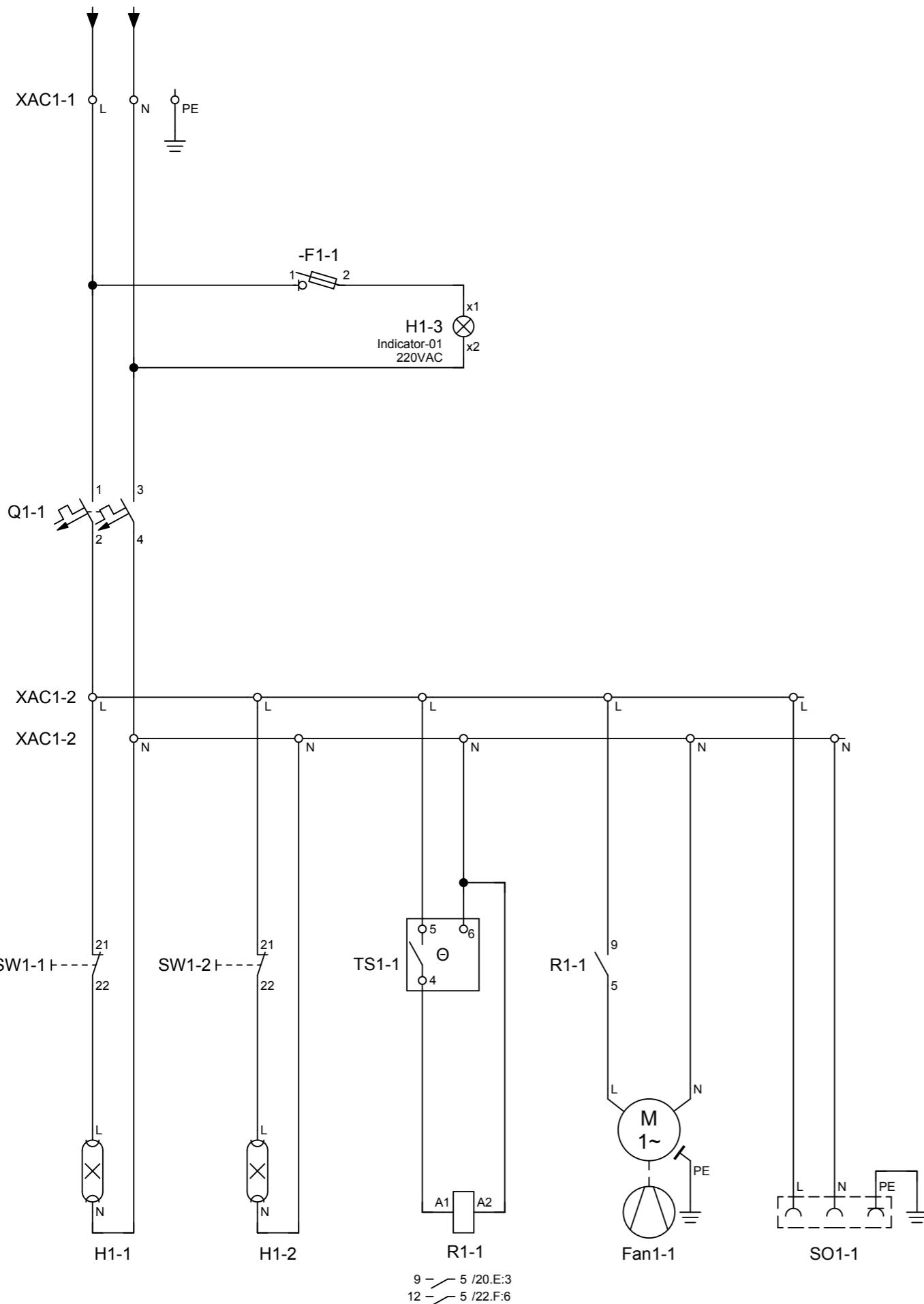
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Single Line  
PLC-MR-04(24VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

19  
182

Power Supply 220VAC  
From PDP to SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

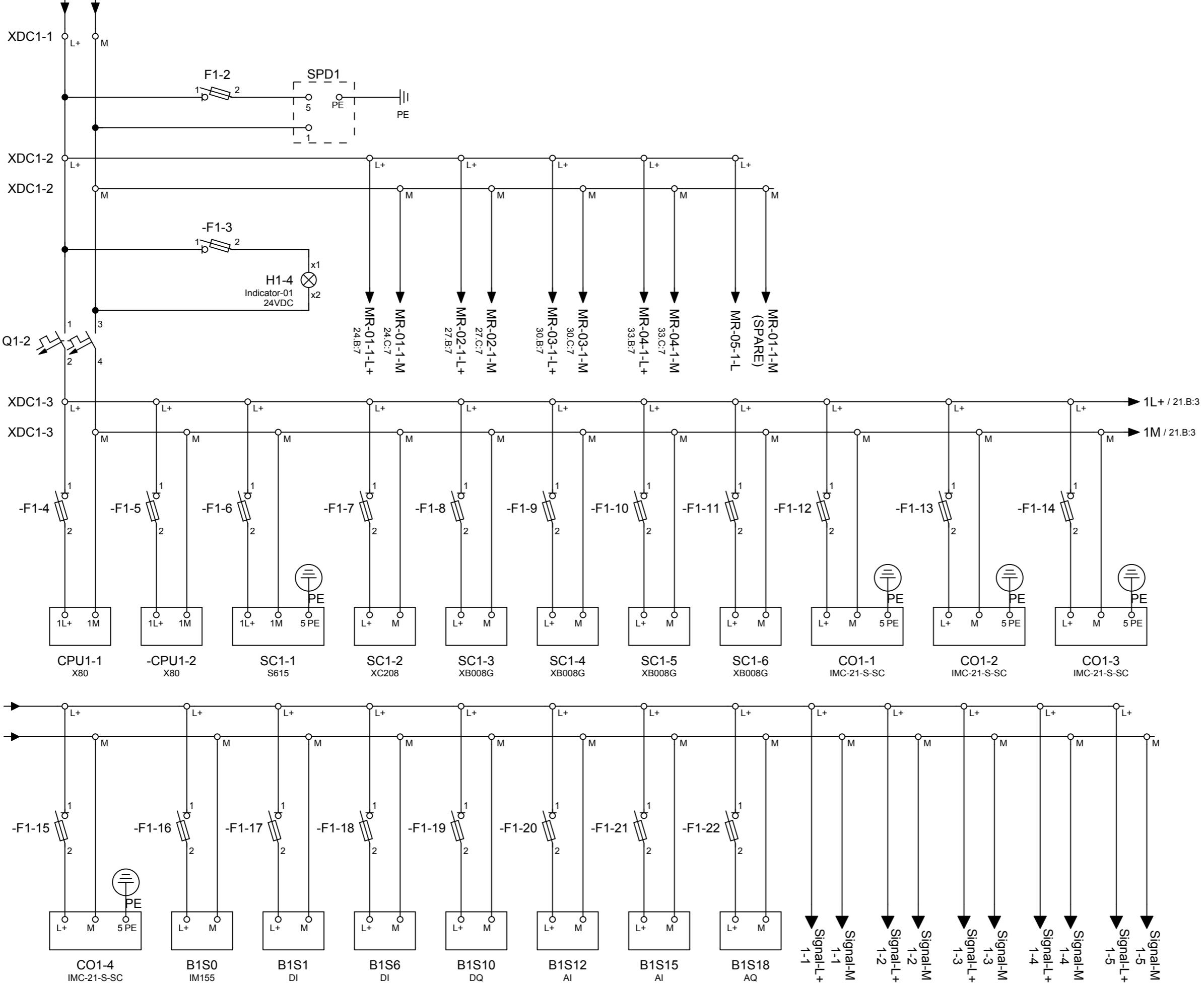
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Multi Line PLC-SYS-01 (220VAC)  
SCALE 1/1 DWG. NO. SCADA-08-003

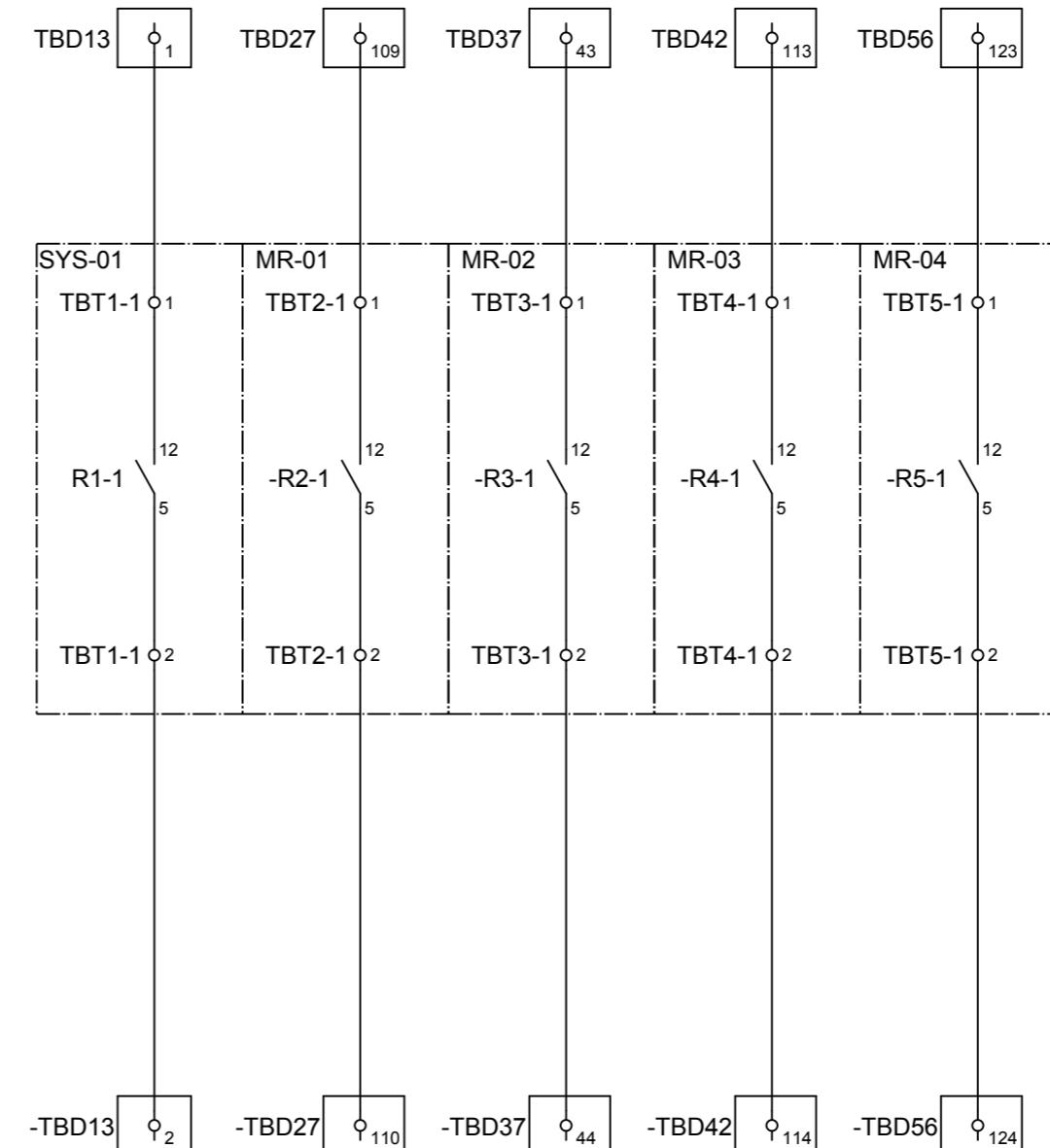
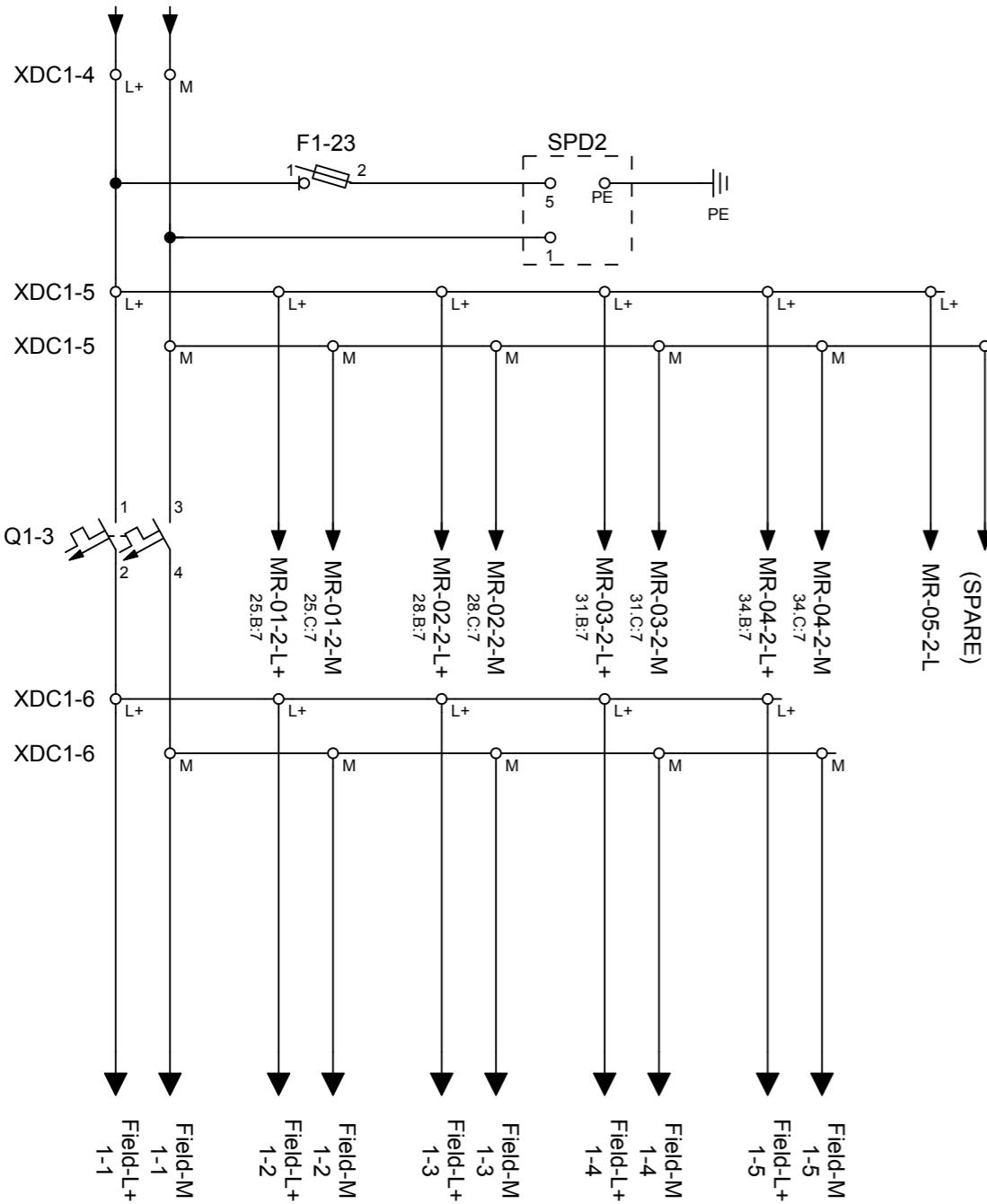
20  
182

Power Supply 24VDC  
From PDP to PLC Cabinet



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIETNAM CORPORATION LIMITED								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.								
Power Supply - Multi Line PLC-SYS-01 (24VDC)								
SCALE	1/1	DWG. NO.		SCADA-08-003				

Power Supply 24VDC  
From PDP to PLC Cabinet



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023	
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022	
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022	
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022	
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022	
REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

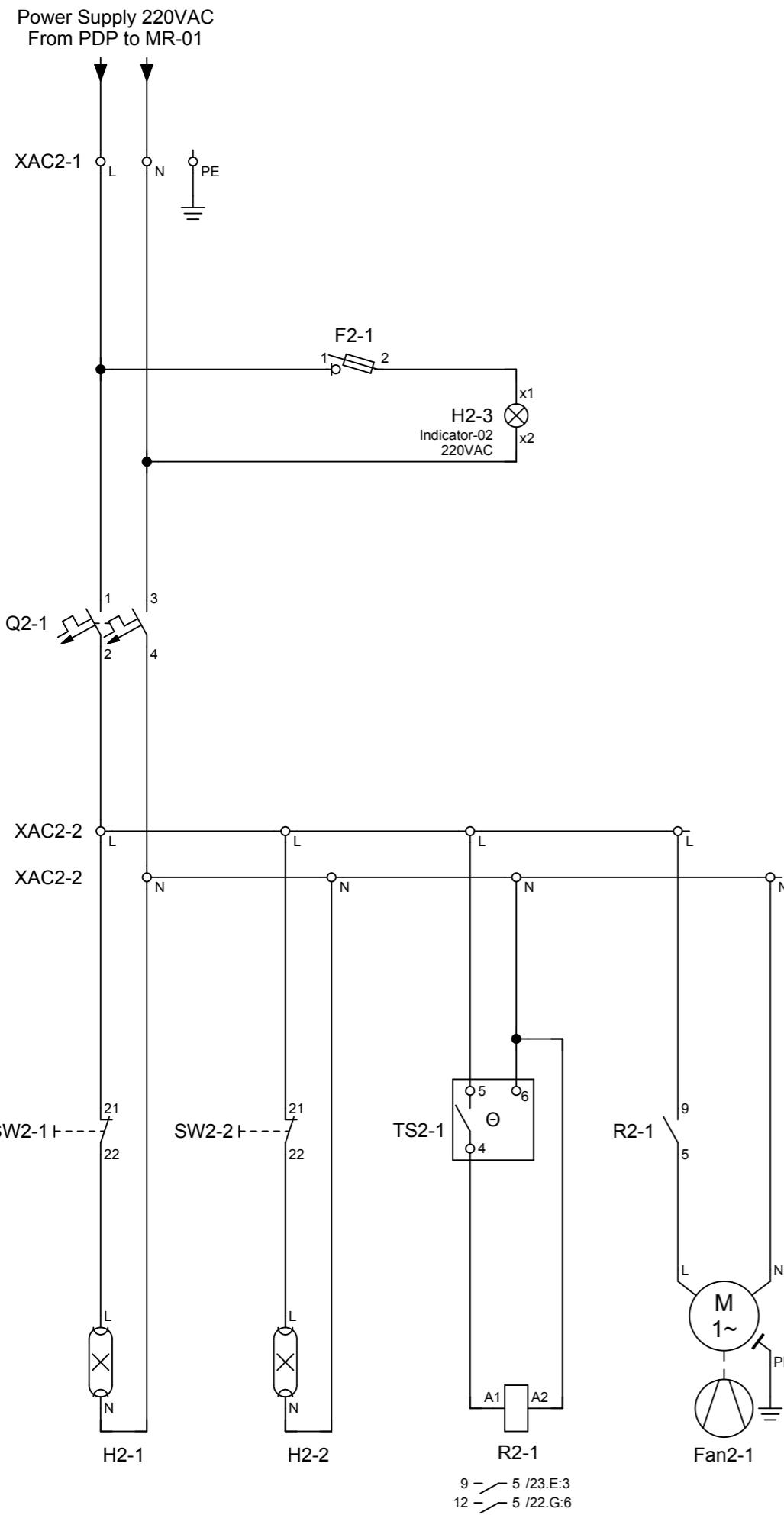
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Multi Line  
PLC-SYS-01 (24VDC)

SCALE 1/1 DWG. NO. SCADA-08-003

22  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY  
PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

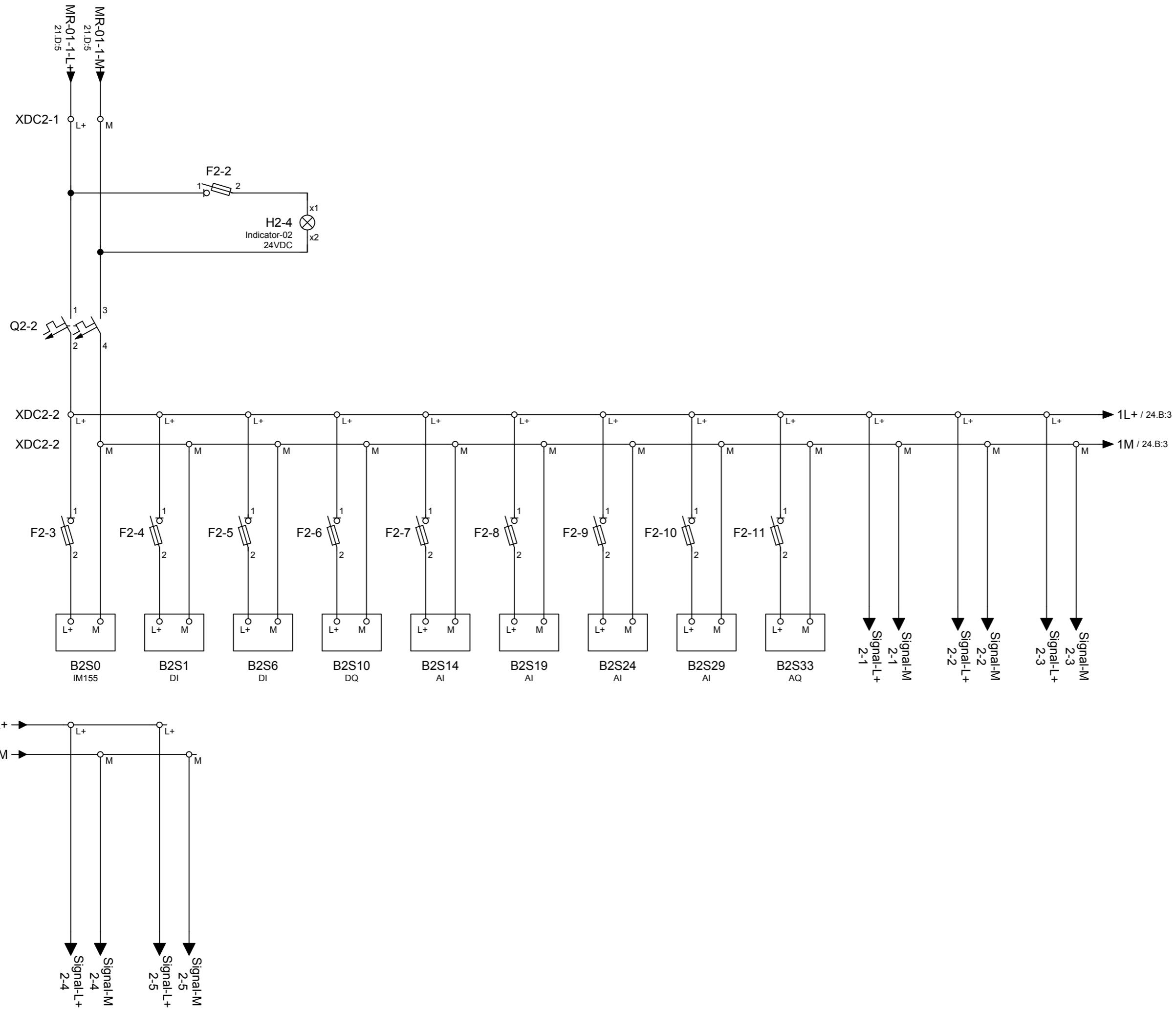
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Multi Line  
PLC-MR-01 (220VAC)

SCALE 1/1 DWG. NO. SCADA-08-003

23  
182



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY  
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

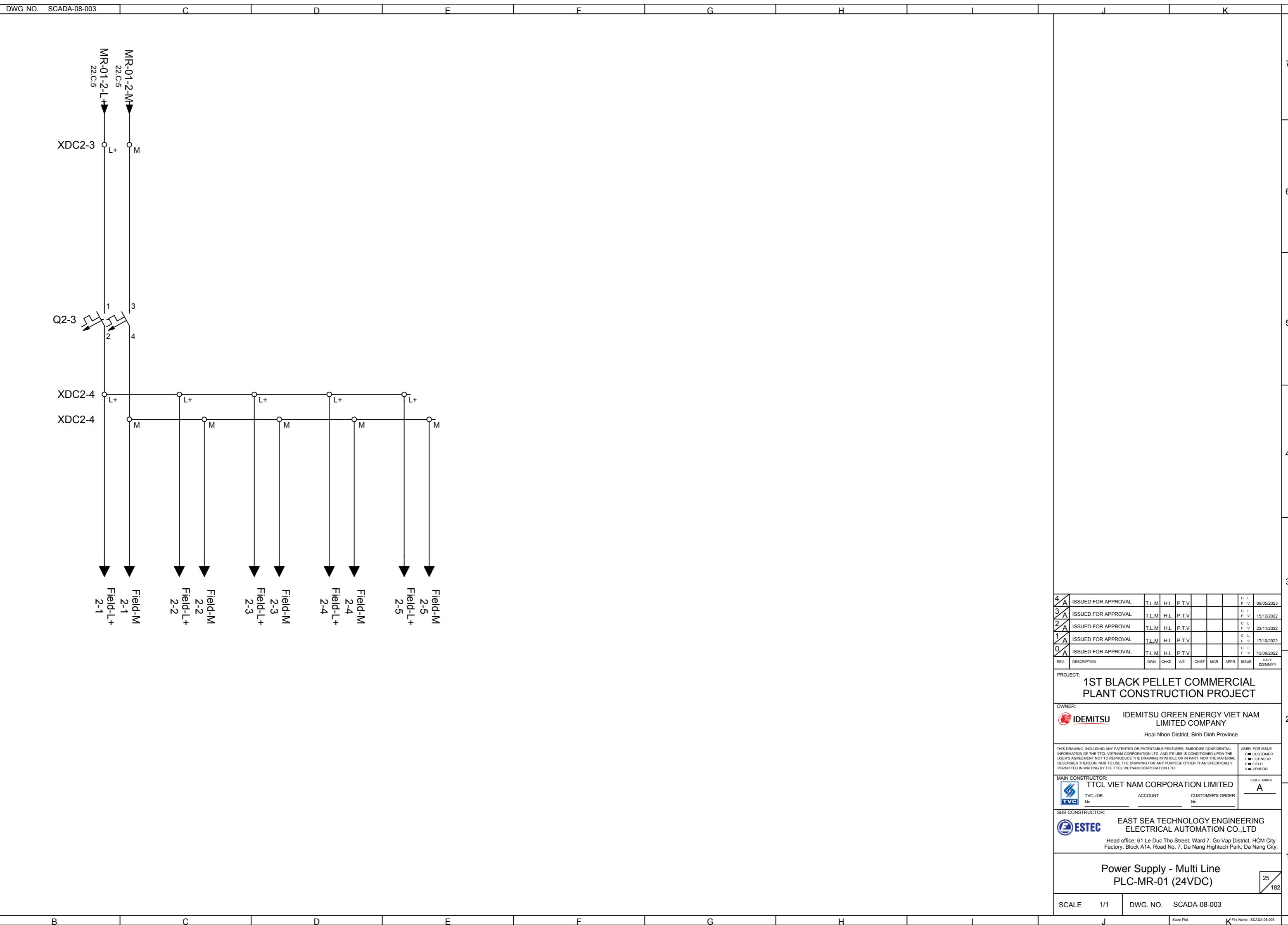
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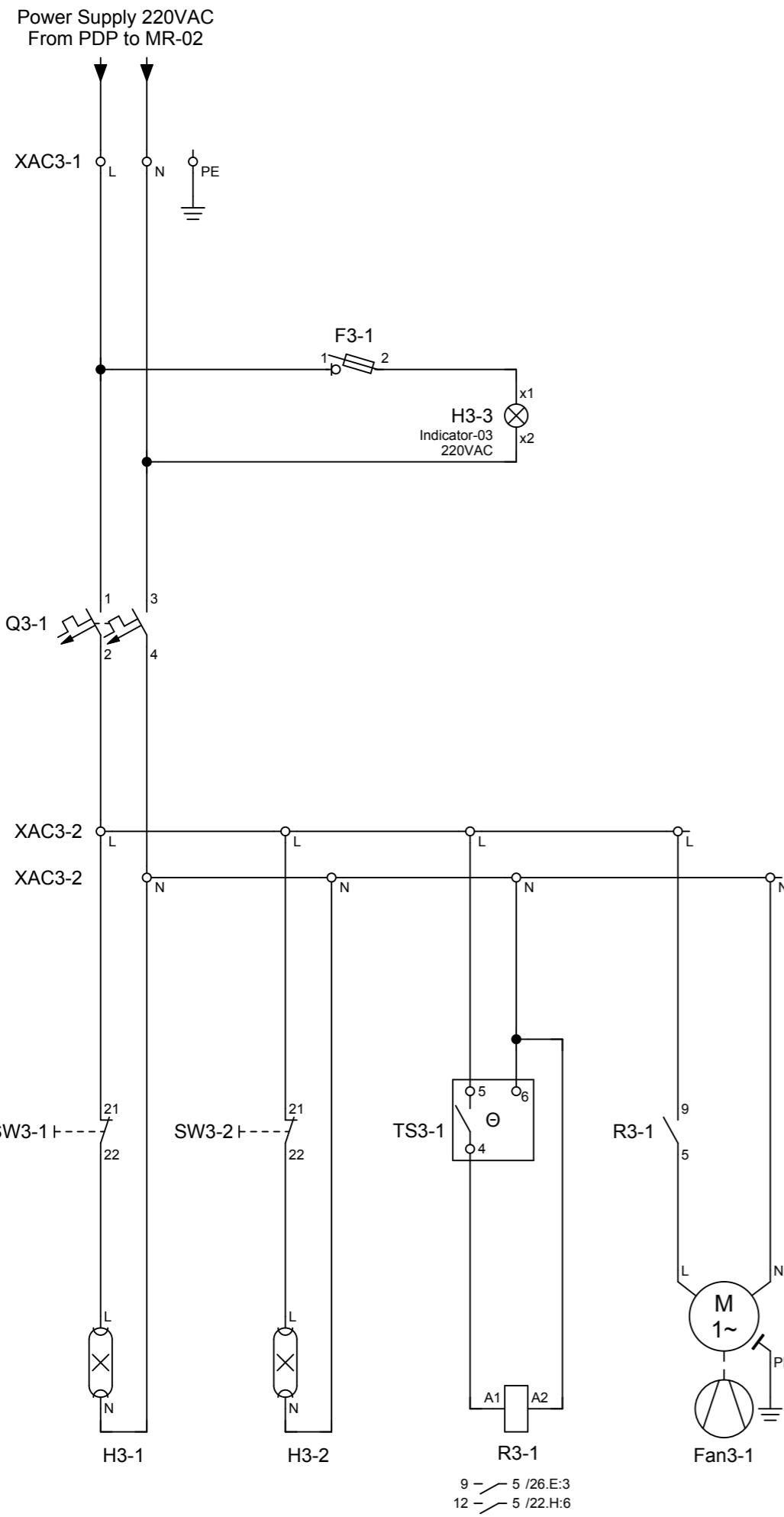
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Multi Line  
PLC-MR-01 (24VDC)

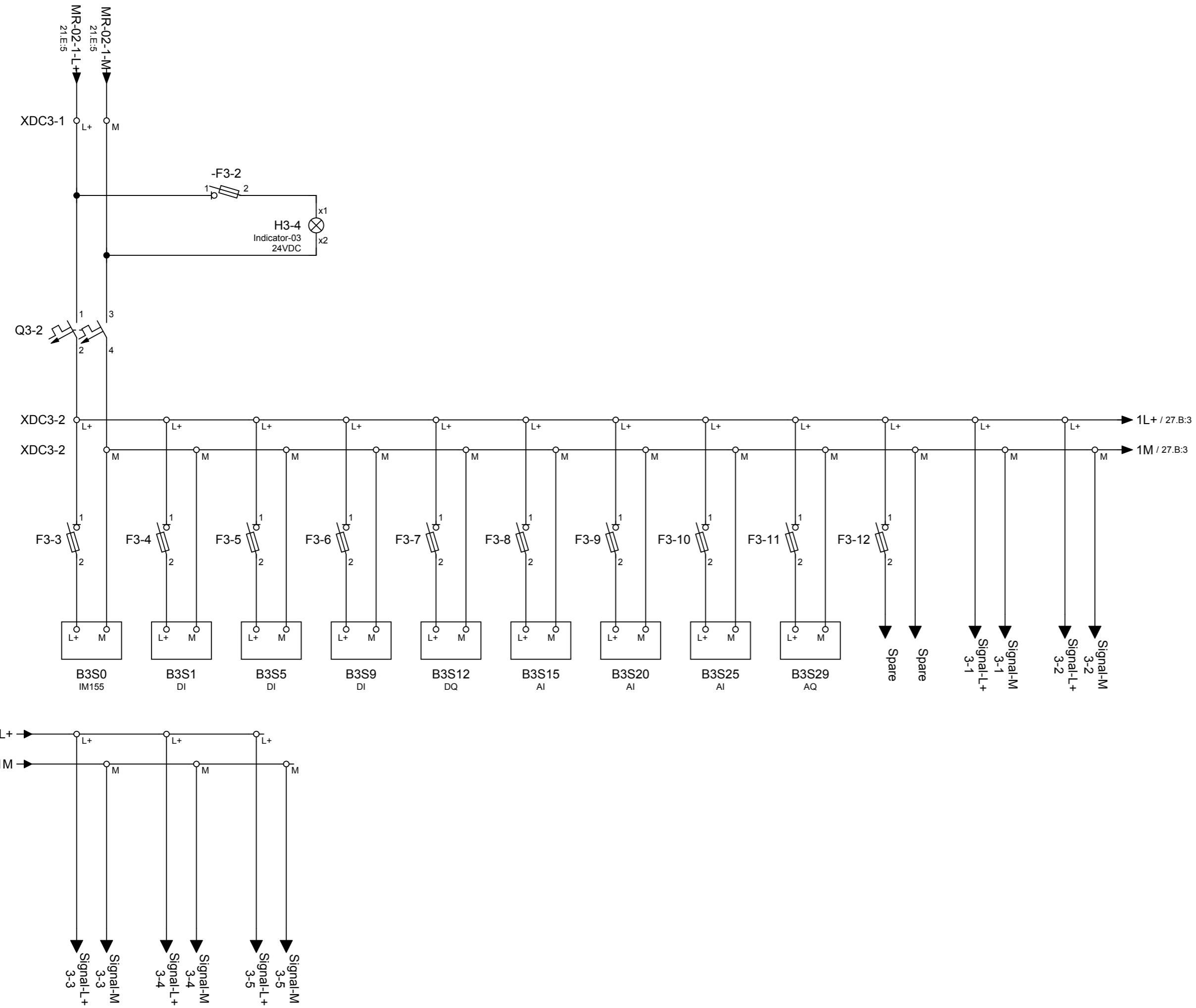
SCALE 1/1 DWG. NO. SCADA-08-003

24  
182





4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DD/MM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province								
THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, EMBOIDES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR TO USE THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.								
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED ISSUE MARK A TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Power Supply - Multi Line PLC-MR-02 (220VAC)								
SCALE	1/1	DWG. NO. SCADA-08-003						



4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/09/2022
REV.	DESCRIPTION	DWN.	CHKD	A/E	CHIEF	MGR.	APPR.	ISSUE	DATE DD/MM/YY

**PLANT CONSTRUCTION PROJECT**

OWNER: **IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY**

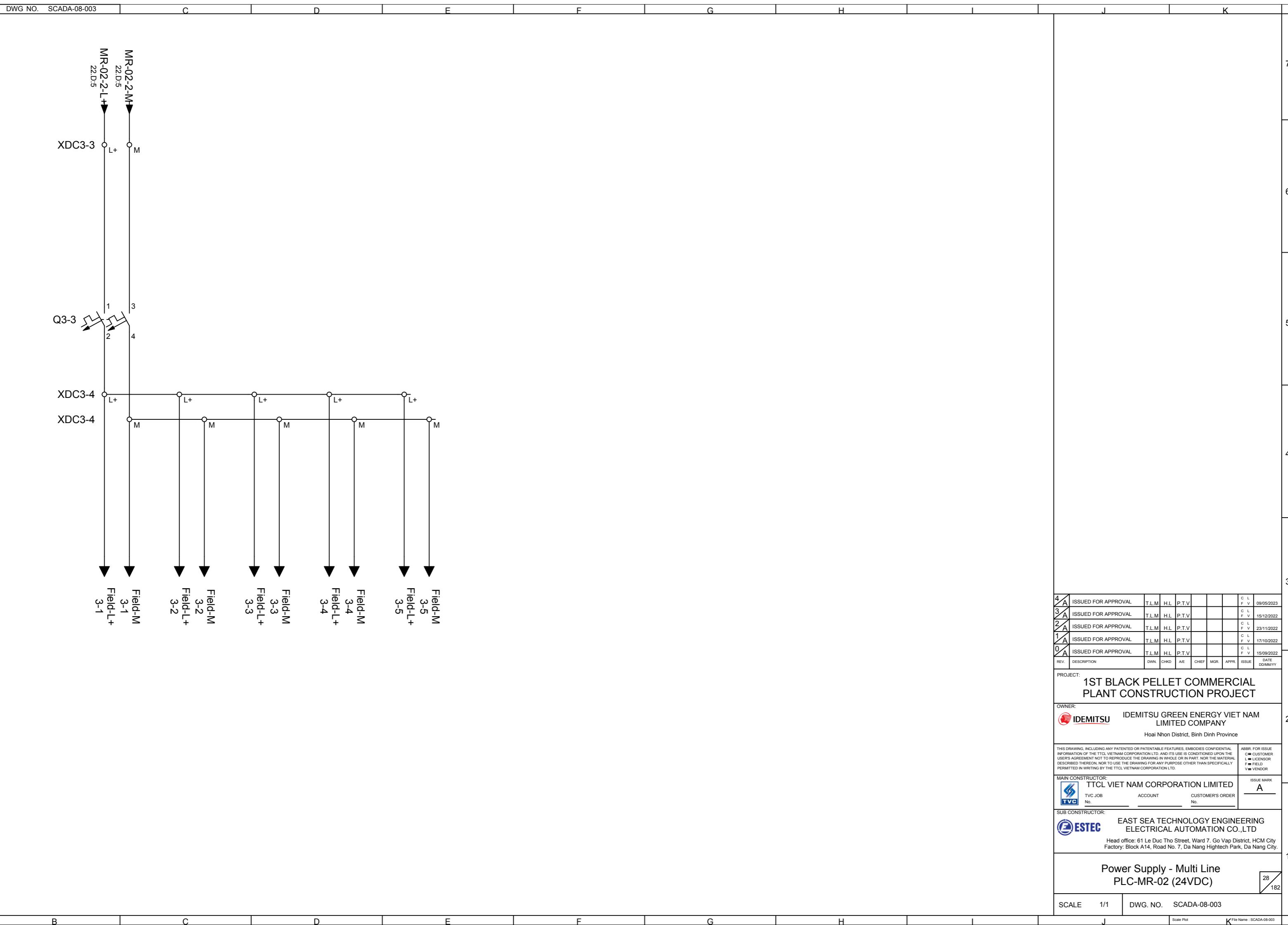
Hoai Nhon District, Binh Dinh Province

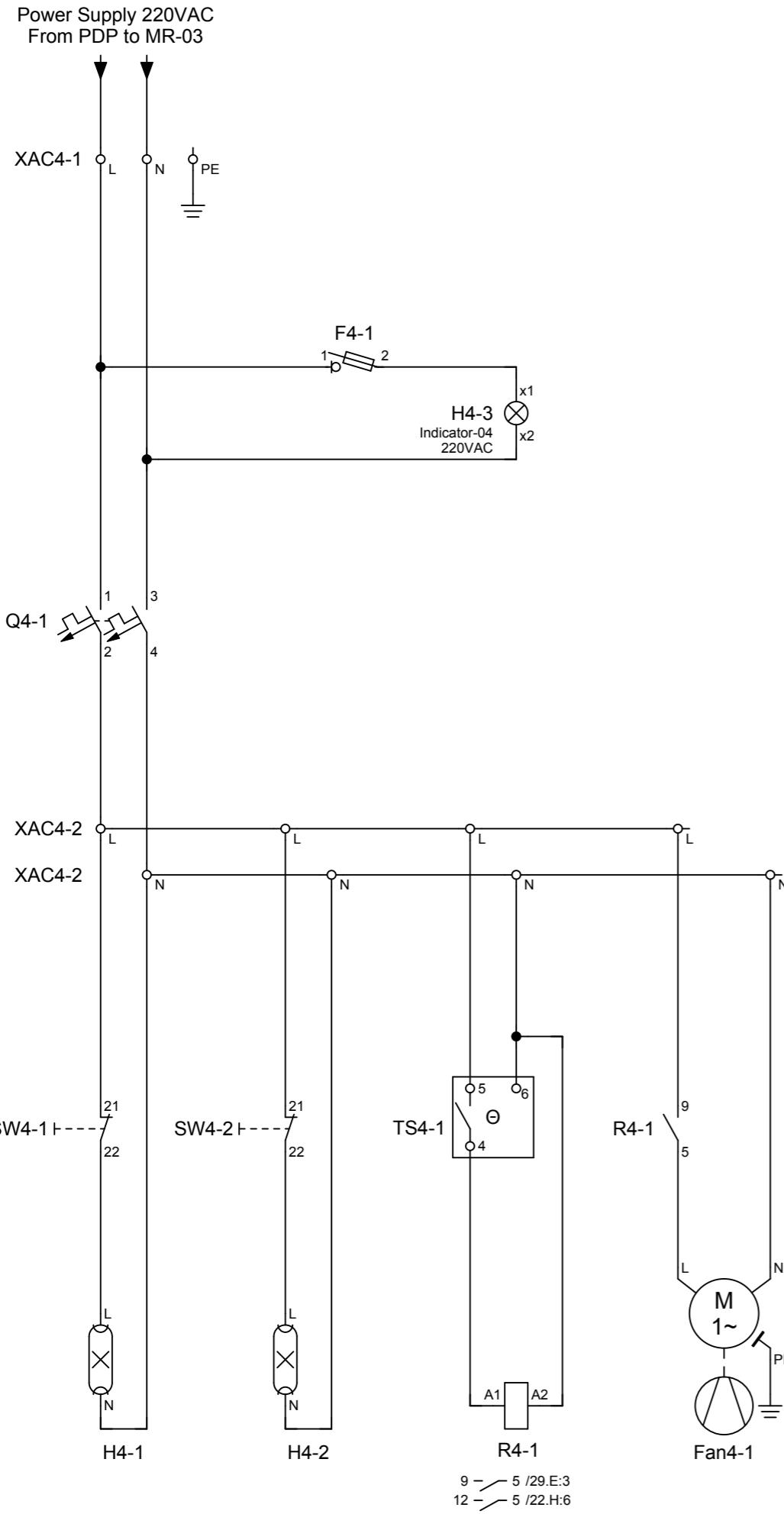
PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.			V = VENDOR
<b>MAIN CONSTRUCTOR:</b> <b>TTCI VIET NAM CORPORATION LIMITED</b>		<b>ISSUE MARK</b>	
 <b>TTCI</b>	TVC JOB No. _____	ACCOUNT No. _____	CUSTOMER'S ORDER No. _____
<b>SUB CONSTRUCTOR:</b>		<b>EAST SEA TECHNOLOGY ENGINEERING</b> <b>ELECTRICAL AUTOMATION CO. LTD</b>	
 <b>ESTEC</b>			

Head office: 61 Le Duc Tho Street, Ward 7. Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Multi Line  
PLC-MR-02 (24VDC)

SCALE	1/1	DWG. NO.	SCADA-08-003
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4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

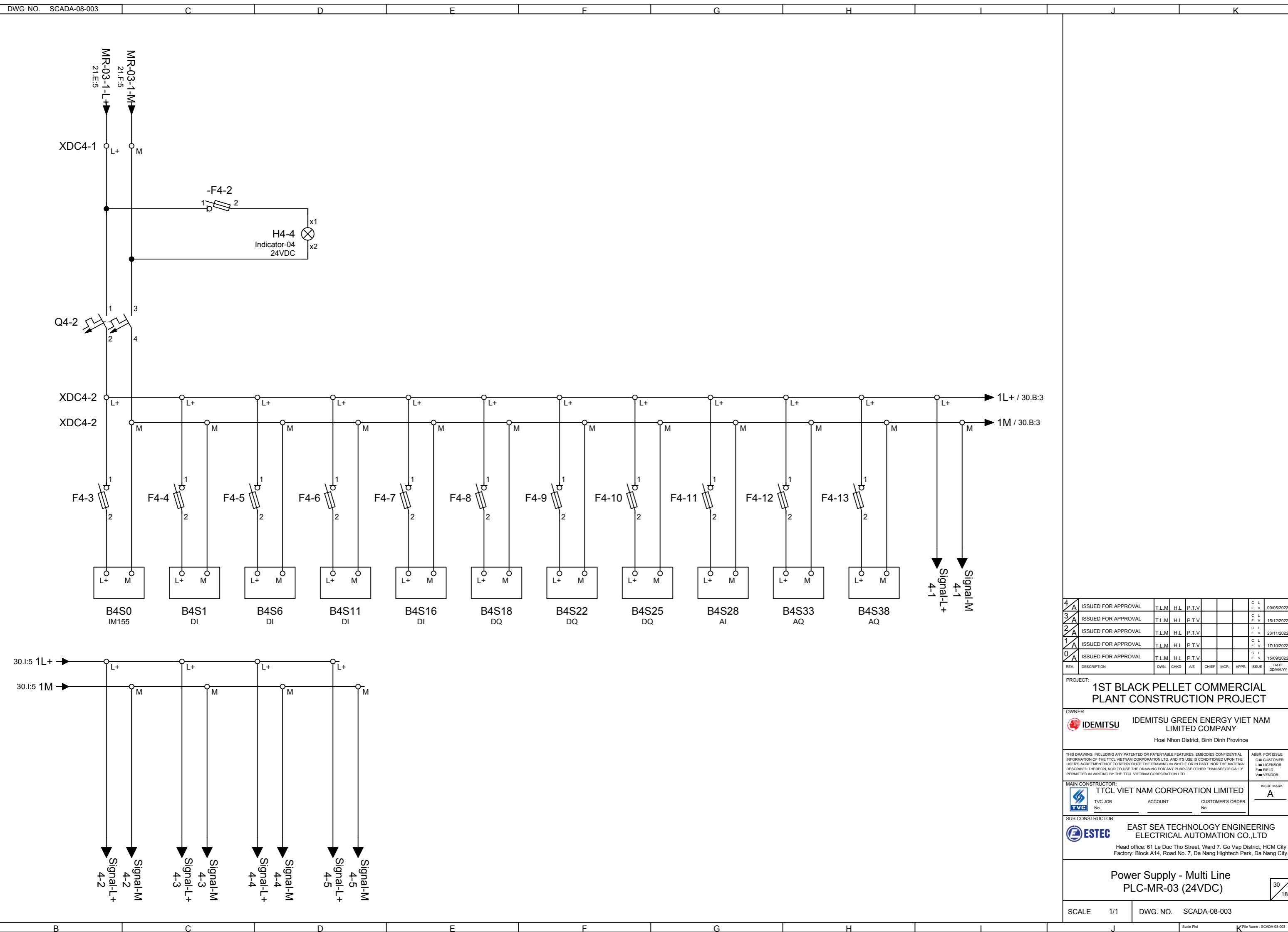
OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

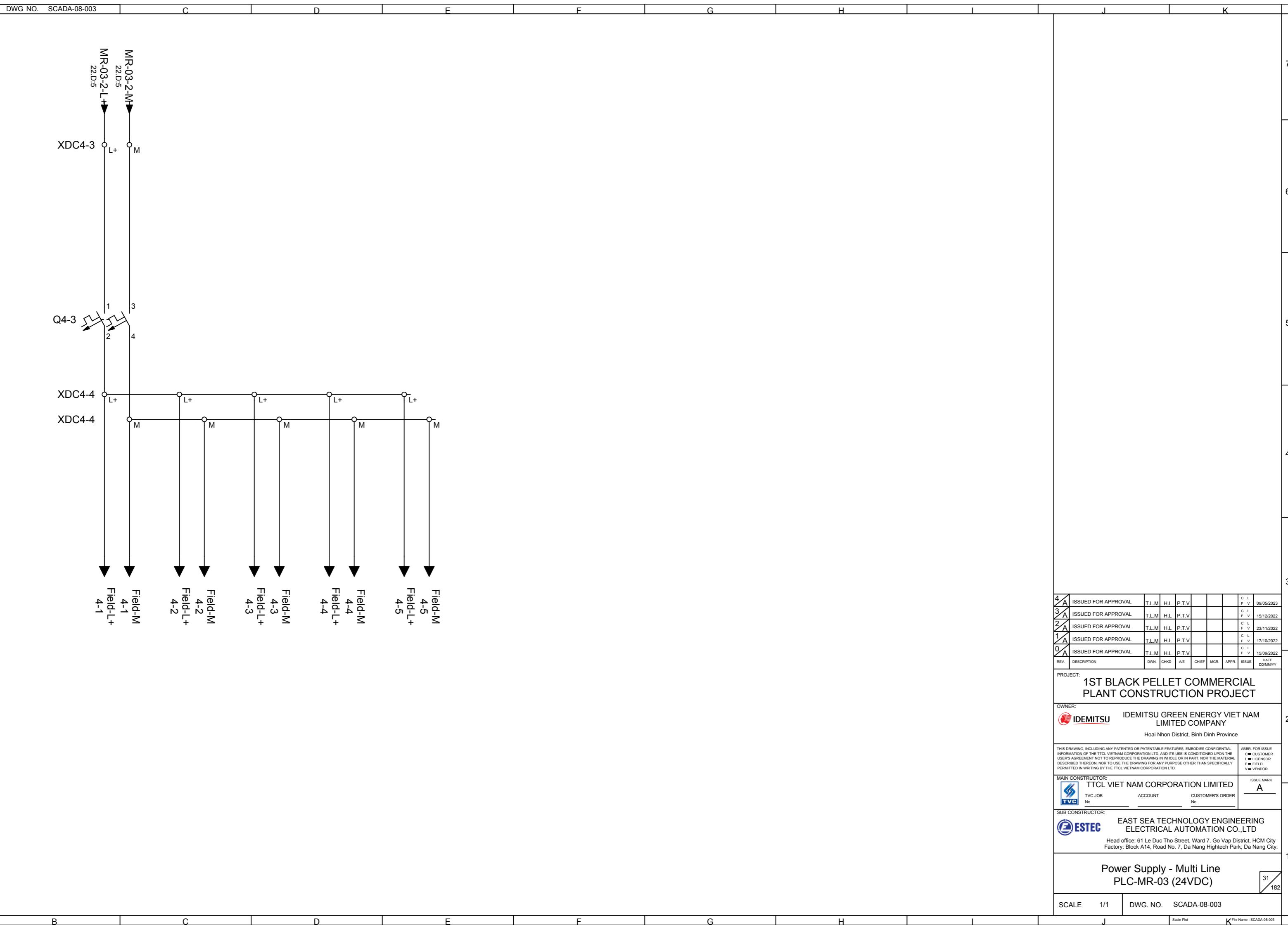
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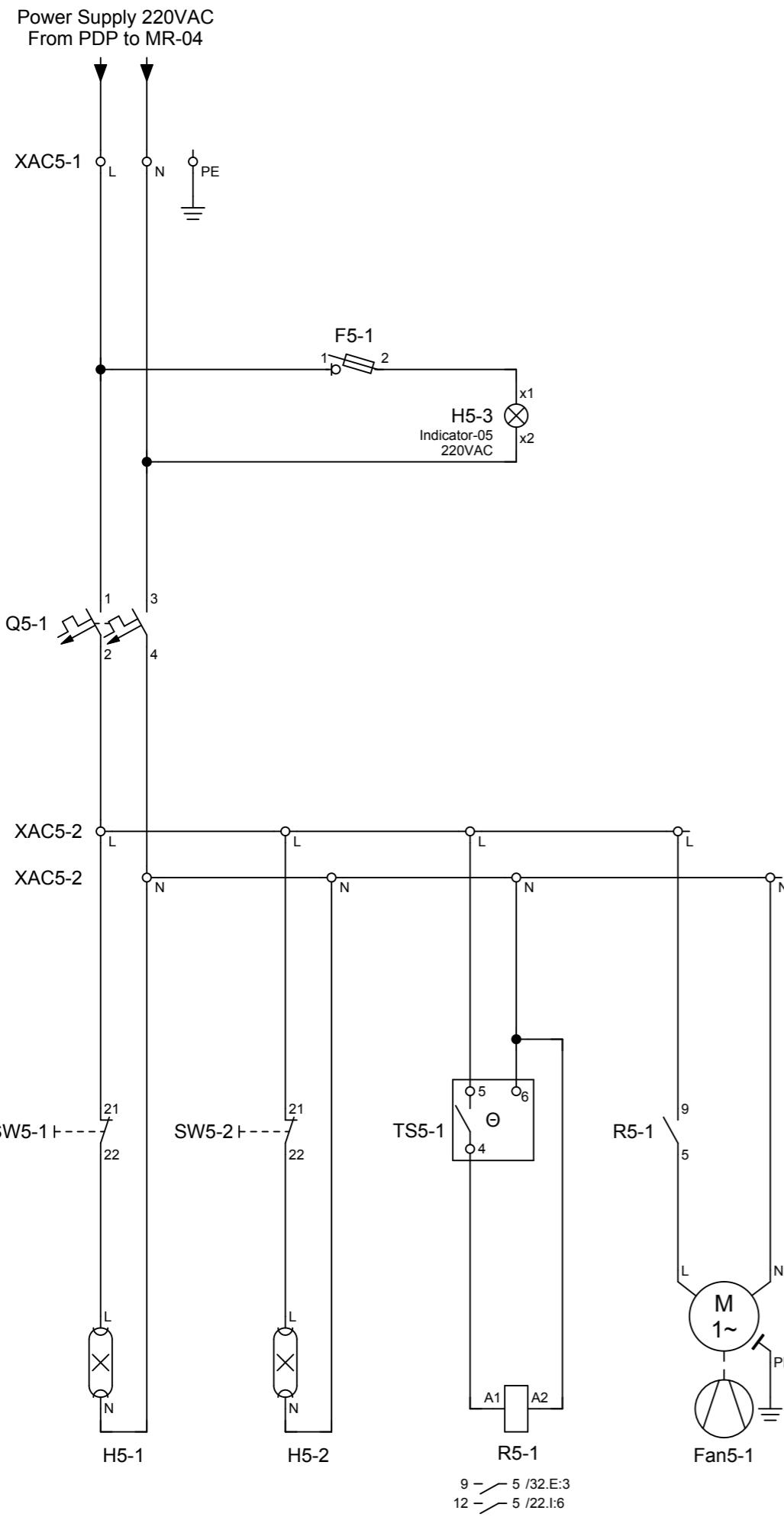
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Power Supply - Multi Line  
PLC-MR-03 (220VAC)

SCALE	1/1	DWG. NO.	SCADA-08-003
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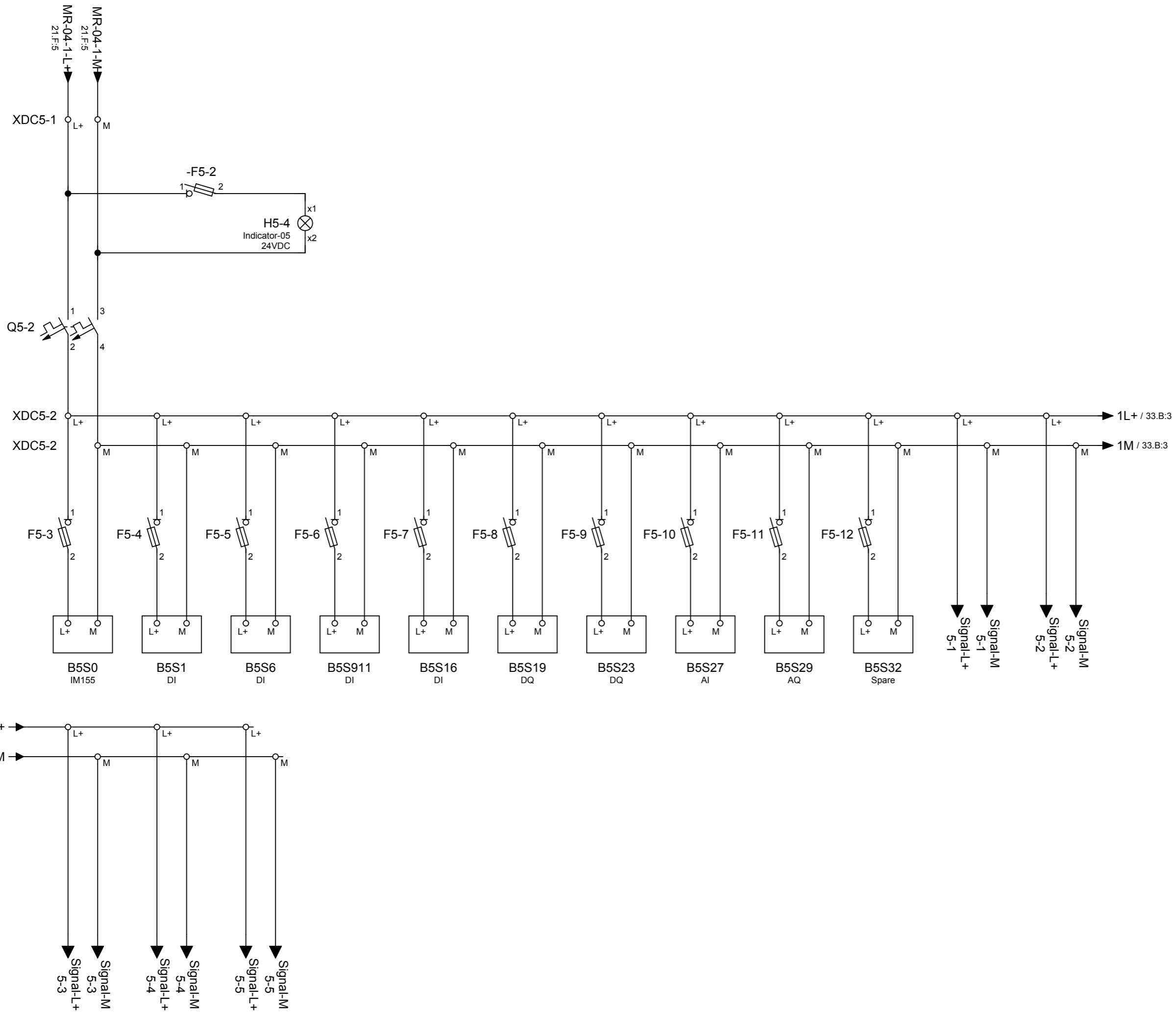
4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Multi Line PLC-MR-04 (220VAC)  
SCALE 1/1 DWG. NO. SCADA-08-003



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY  
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province

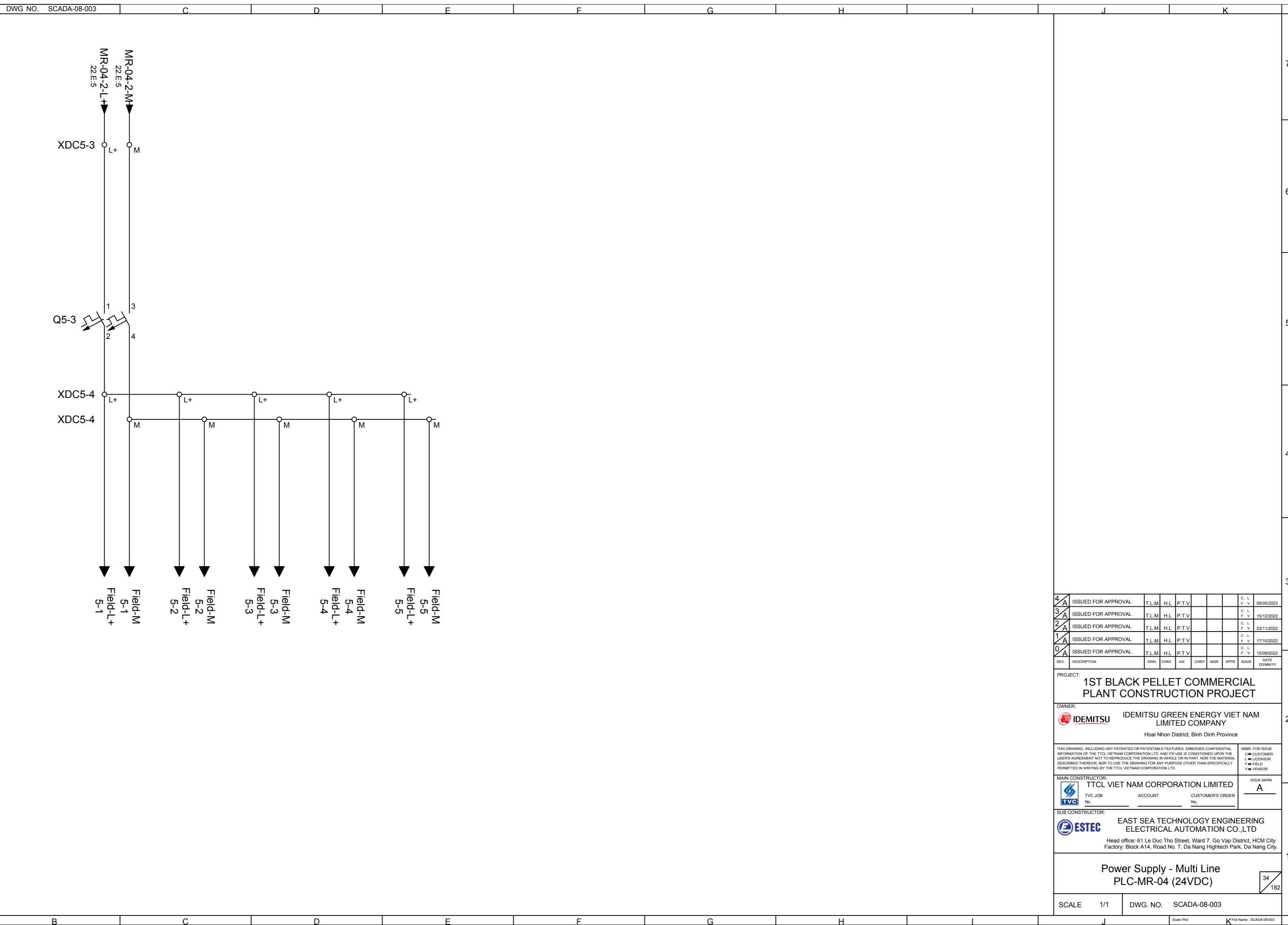
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Power Supply - Multi Line  
PLC-MR-04 (24VDC)

SCALE 1/1 DWG. NO. SCADA-08-003

33  
182



## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
DOMM/YY								

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S1

SCALE 1/1 DWG. NO. SCADA-08-003

35  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

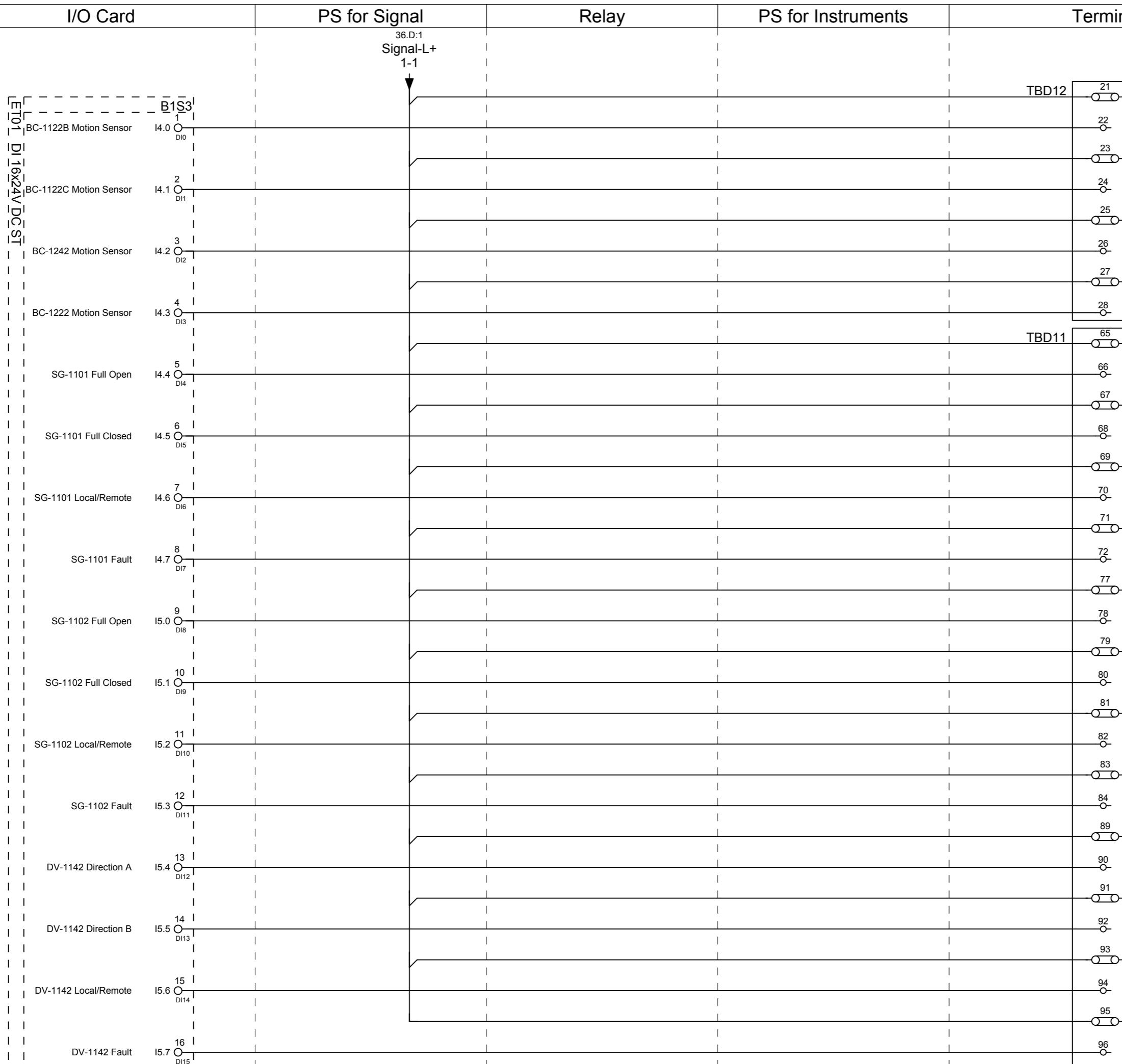
ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S2  
36  
182  
SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
 OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

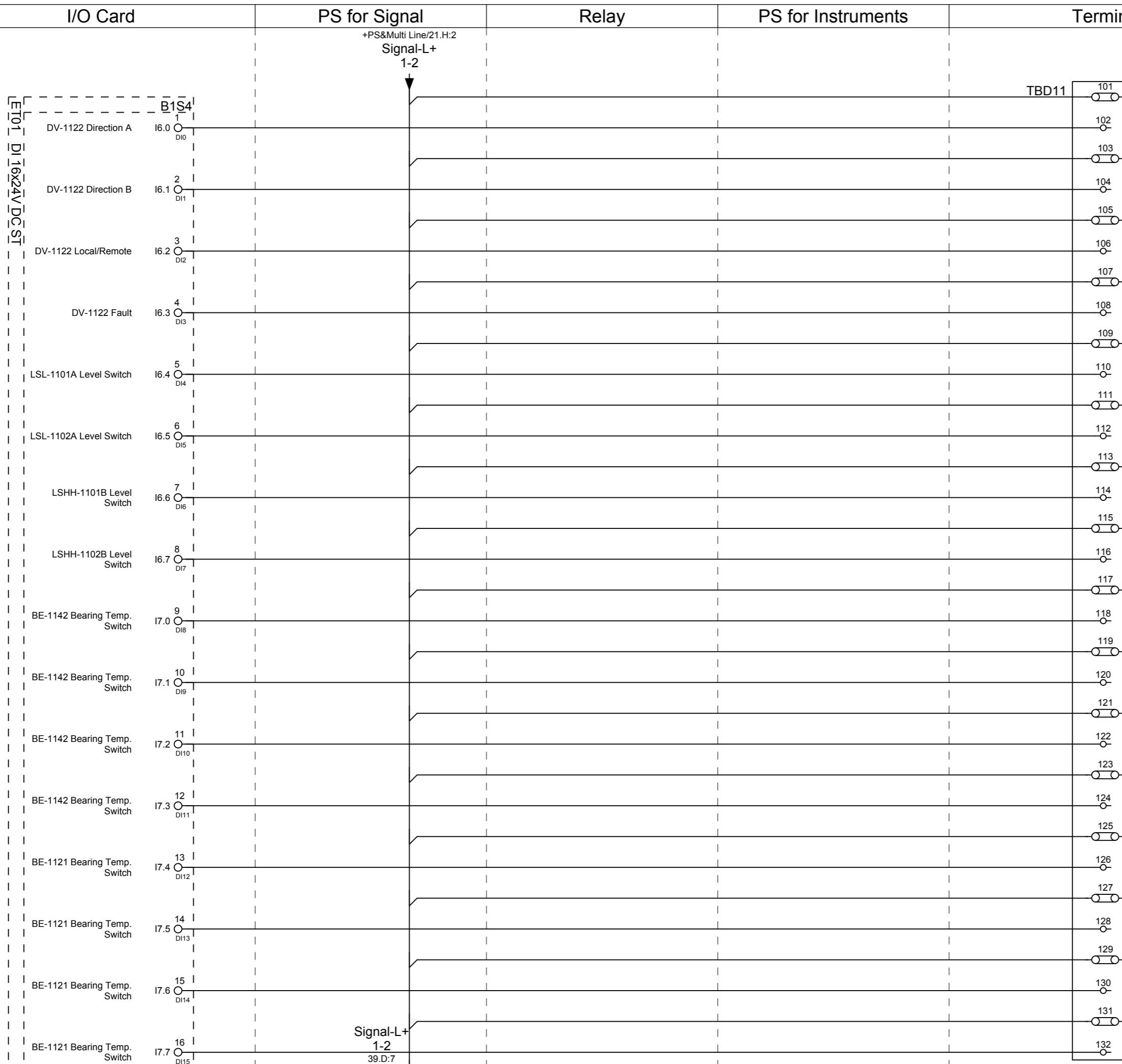
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
 B1S3  
 37  
 182  
 SCALE 1/1 DWG. NO. SCADA-08-003  
 K File Name: SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	08/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: **1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT**  
OWNER: **IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY**  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: **TTCL VIET NAM CORPORATION LIMITED**  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK **A**

SUB CONSTRUCTOR: **EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD**  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
**B1S4**

SCALE 1/1 DWG. NO. SCADA-08-003

38  
182

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	08/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
08/09/2022

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S5

SCALE 1/1 DWG. NO. SCADA-08-003

39  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City  
Internal Wiring for PLC-SYS-01  
B1S6

SCALE 1/1 DWG. NO. SCADA-08-003

40  
182

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-SYS-01  
B1S7

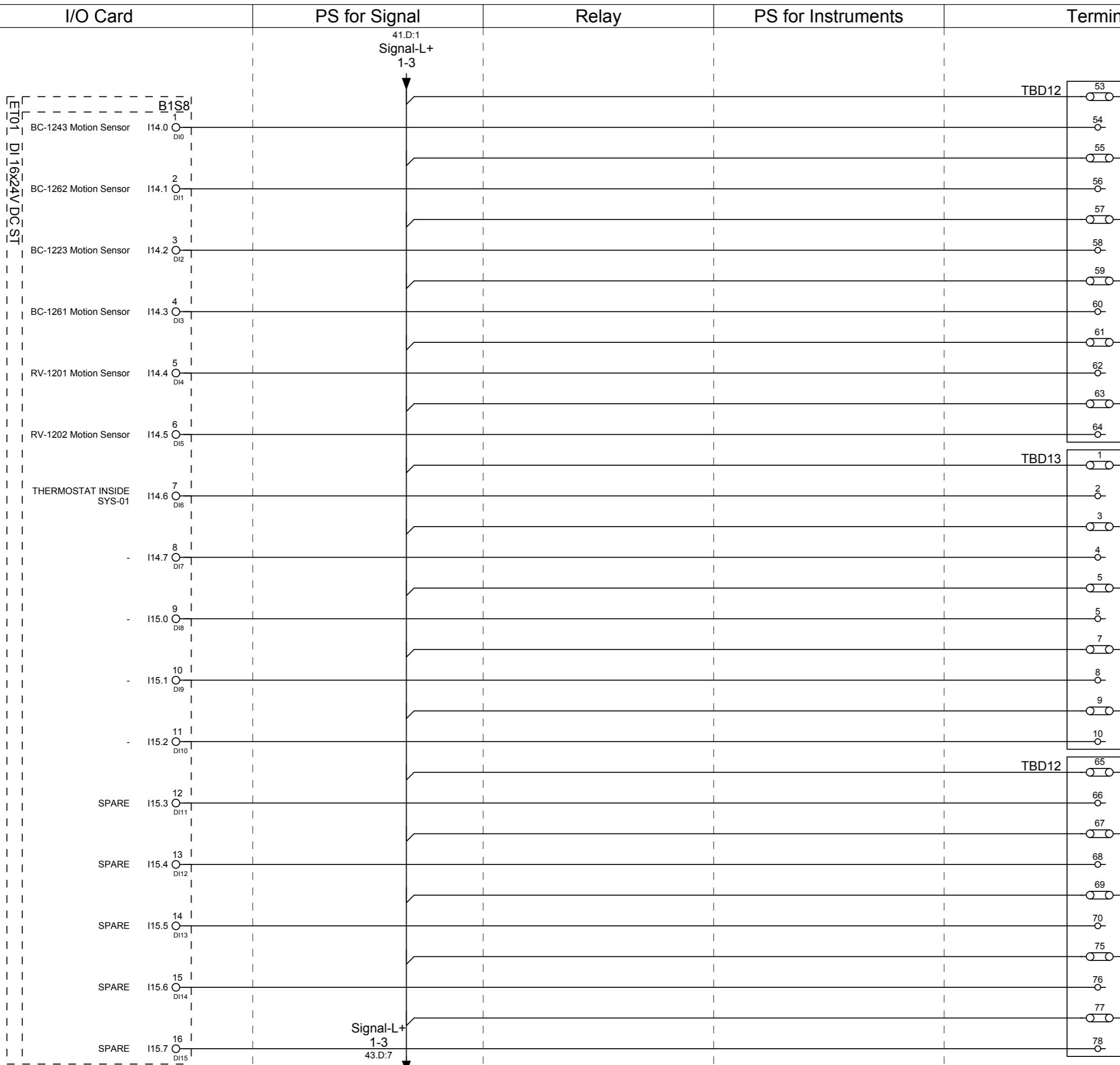
SCALE 1/1 DWG. NO. SCADA-08-003

41  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR:

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S8

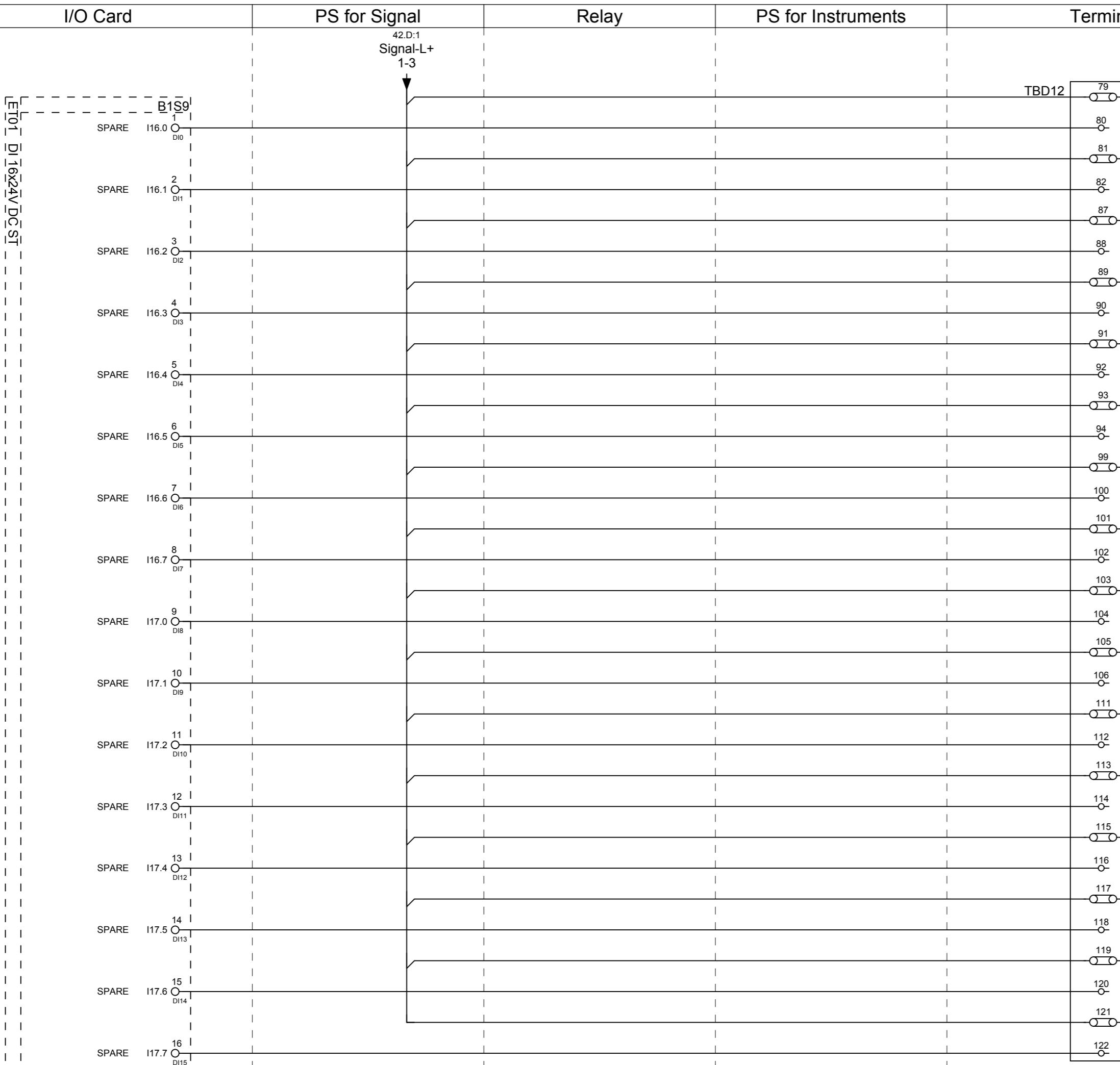
SCALE 1/1 DWG. NO. SCADA-08-003

42  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

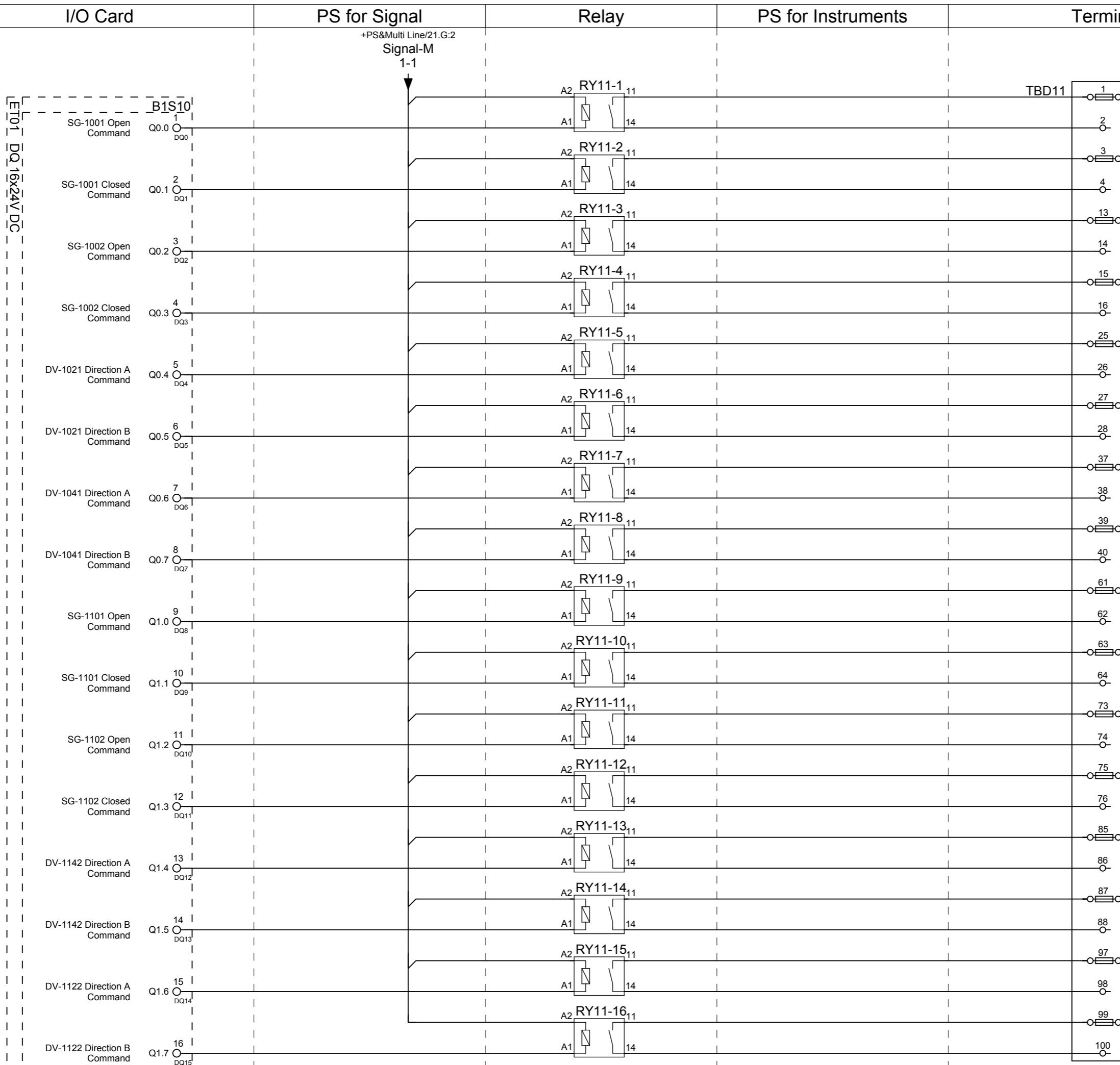
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-SYS-01  
B1S9

SCALE 1/1 DWG. NO. SCADA-08-003

43  
182

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

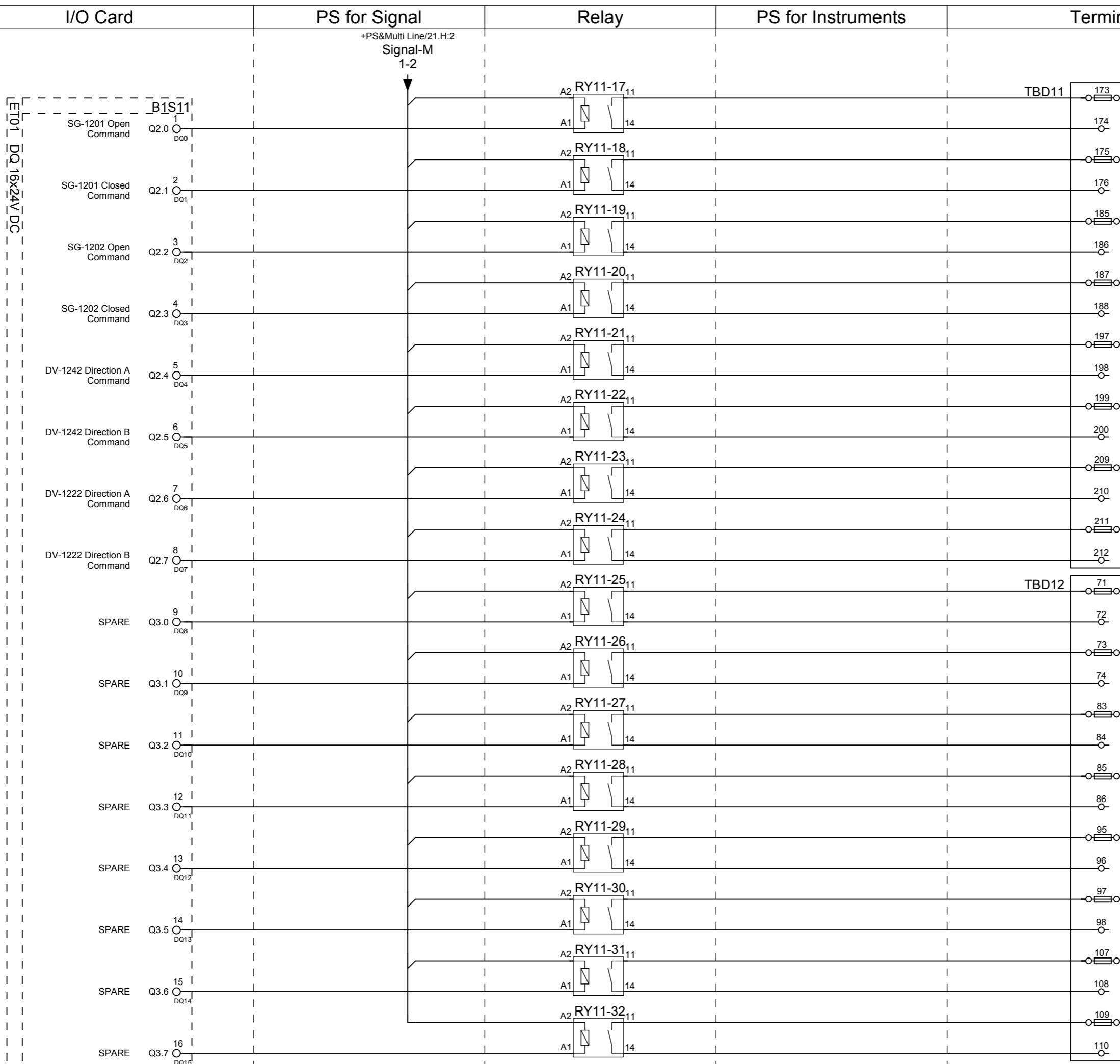
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S10  
44 182

SCALE 1/1 DWG. NO. SCADA-08-003

Scale Plot K File Name: SCADA-08-003

## PLC-SYS-01



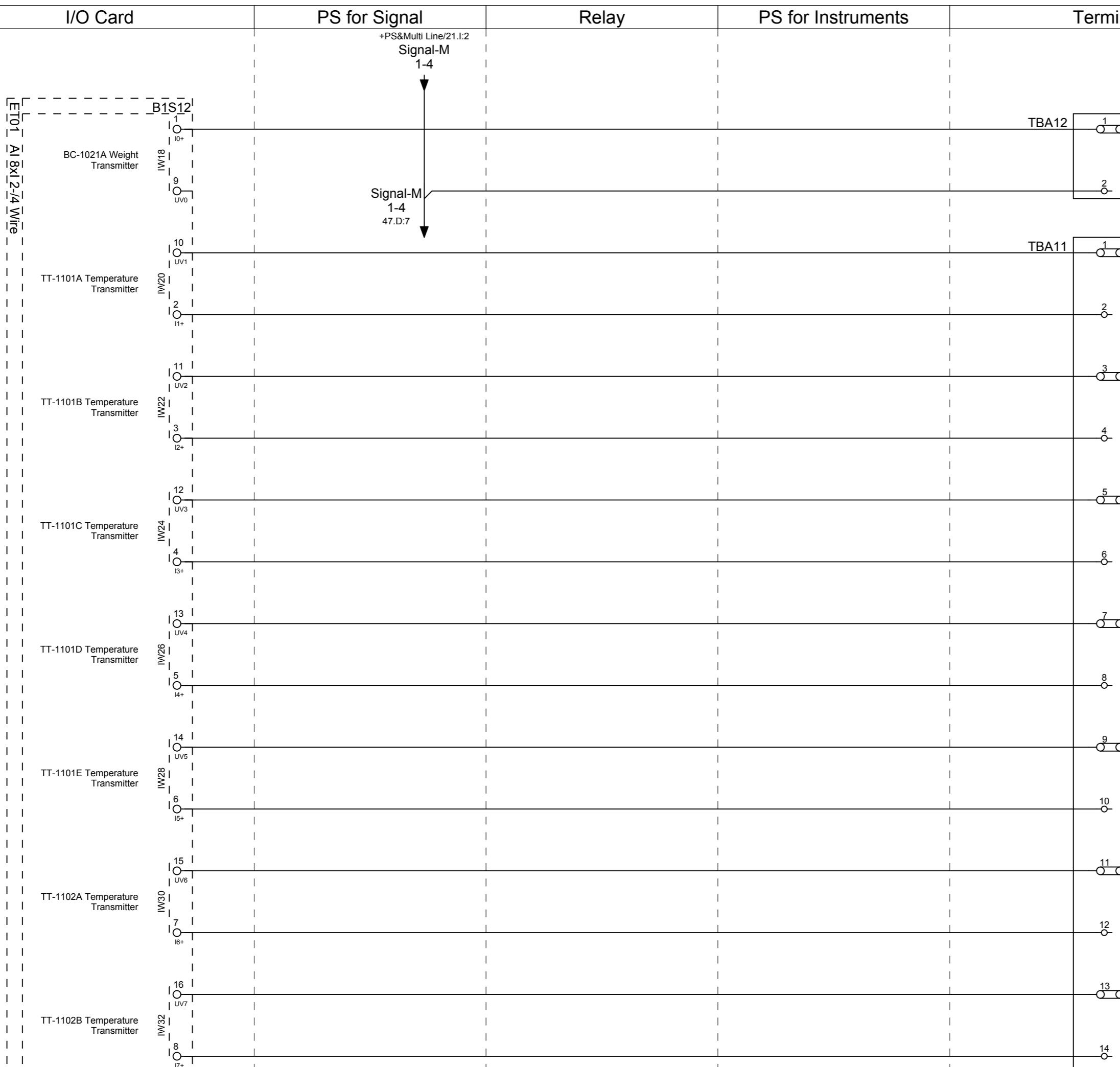
4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
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SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.Internal Wiring for PLC-SYS-01  
B1S11  
45 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

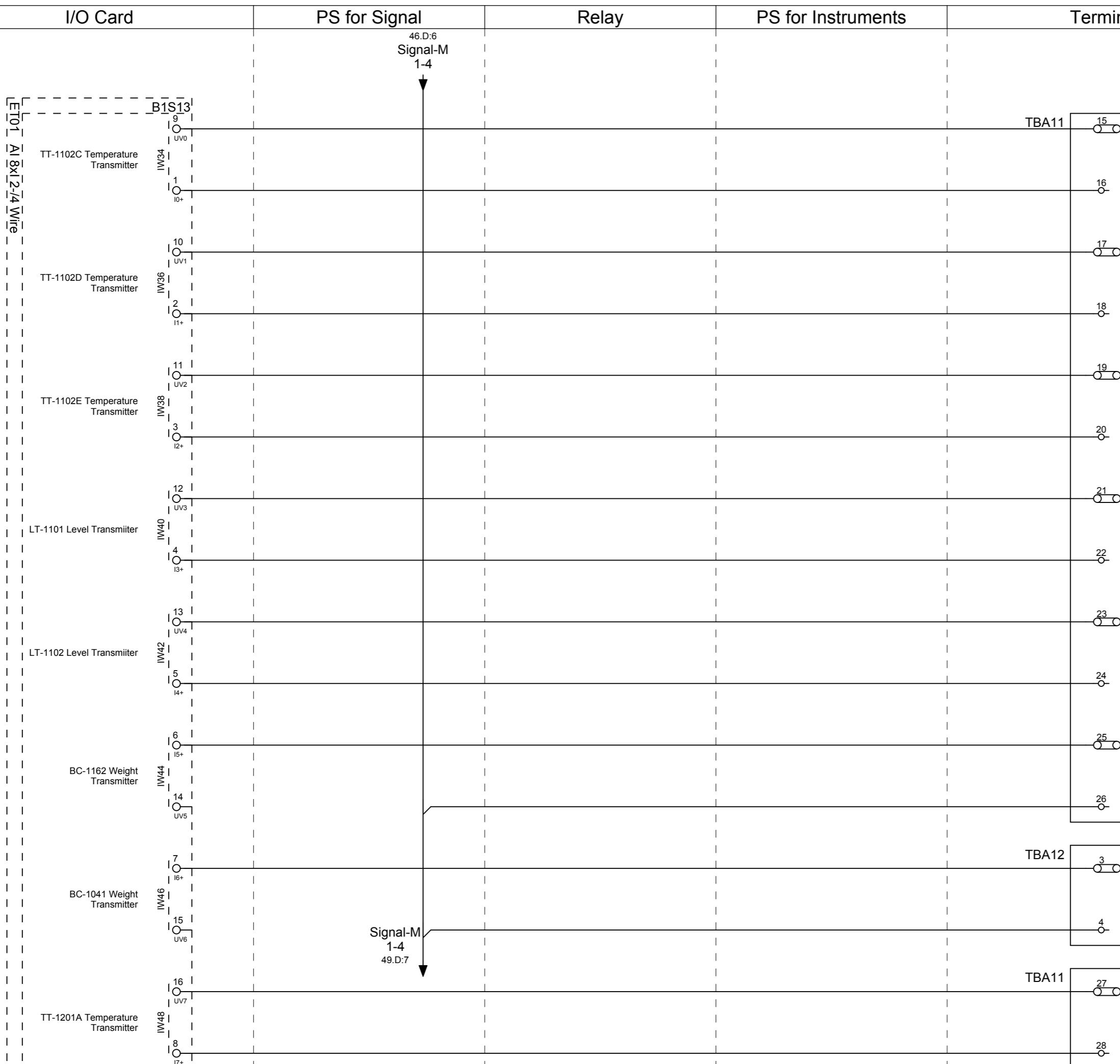
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S12  
46  
182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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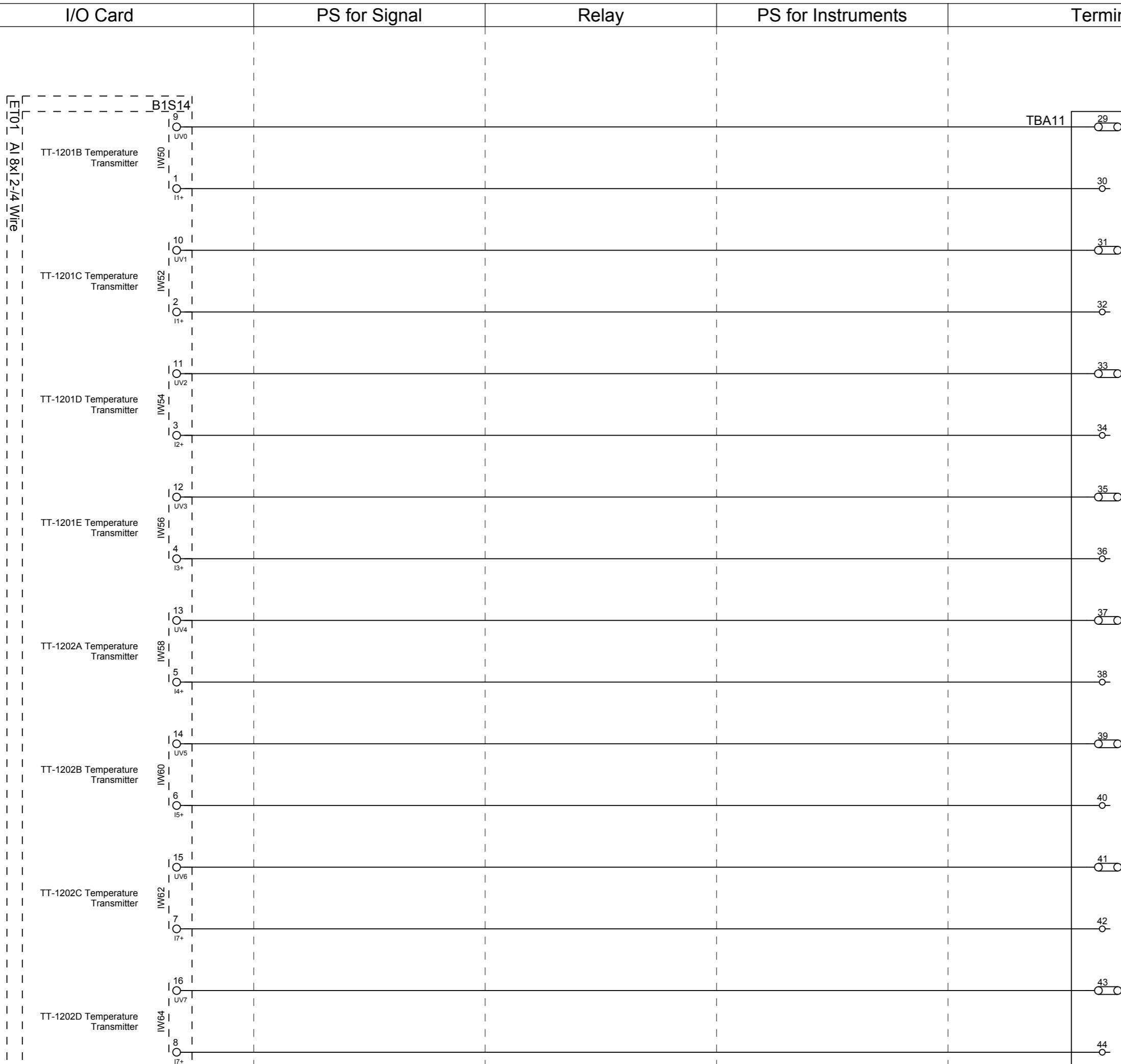
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-SYS-01  
B1S13

SCALE 1/1 DWG. NO. SCADA-08-003

47  
182

## PLC-SYS-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.Internal Wiring for PLC-SYS-01  
B1S14  
48 182

SCALE 1/1 DWG. NO. SCADA-08-003

ABBR. FOR ISSUE

C ■ CUSTOMER

L ■ LICENSOR

F ■ FIELD

V ■ VENDOR

ISSUE MARK

A

TVC

No.

ACCOUNT

CUSTOMER'S ORDER

No.

SUB CONSTRUCTOR:

ESTEC

EAST SEA TECHNOLOGY ENGINEERING

ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City

Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-SYS-01

B1S14

48 182

Scale Plot

K File Name: SCADA-08-003

PLC-SYS-01

I/O Card	PS for Signal	Relay	PS for Instruments	Termin
	+PS&Multi Line/21.H:2 Signal-L+ 1-4	47.D:2 Signal-M 1-4		
B1S15				
TT-1202E Temperature Transmitter	9 UV0 MW66 1 I0+ 10 UV1 MW88 2 I1+ 11 UV2 MW70 3 I2+ 4 I3+ 12 UV3 MW72 5 I4+ 13 UV4 MW74 6 I5+ 14 UV5 MW76 7 I6+ 15 UV6 MW78 8 I7+ 16 UV7 MW80			TBA11 45 46 47 48 49 50 51 52 TBA12 5 6 7 0.5 A 8 9 10 0.5 A 11 12 13 0.5 A 14 15 16 0.5 A
AI 8x12-/4 Wire				
LT-1201 Level Transmitter				
LT-1202 Level Transmitter				
BC-1262 Weight Transmitter				
AX-1101 CO Gas Analyzer				
AX-1102 CO Gas Analyzer				
AX-1201 CO Gas Analyzer				
AX-1202 CO Gas Analyzer				

4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C G L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/09/2022

REV.	DESCRIPTION	DWN	CHRD	AE	CHIEF	MSR	APLK	ISSUE	DD/MM/YY
PROJECT: <b>1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT</b>									
OWNER: <b>IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY</b>									

Hoai Nhon District, Binh Dinh Province

PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.		VEND	VENDOR
<b>MAIN CONSTRUCTOR:</b>		<b>TTCL VIET NAM CORPORATION LIMITED</b>	
 <b>TTC</b>	<b>TVC JOB</b> No. _____	<b>ACCOUNT</b>	<b>CUSTOMER'S ORDER</b> No. _____
<b>SUB CONSTRUCTOR:</b>		<b>EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD</b>	
 <b>ESTEC</b>	<b>ISSUE MARK</b> <b>A</b>		

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

49  
18

PLC-SYS-01

**I/O Card**

**PS for Signal**

**Relay**

**PS for Instruments**

**Termin**

+PS&Multi Line/21.I:2  
Signal-M  
1-5

B1S16  
9  
I O  
UV0

SPARE  
MW82  
1  
I O  
10+  
10  
I O  
UV1

SPARE  
MW48  
2  
I O  
11+  
11  
I O  
UV2

SPARE  
MW81  
3  
I O  
12+  
12  
I O  
UV3

SPARE  
MW88  
4  
I O  
13+  
13  
I O  
UV4

SPARE  
MW60  
5  
I O  
14+  
14  
I O  
UV5

SPARE  
MW91  
6  
I O  
15+  
15  
I O  
UV6

SPARE  
MW92  
7  
I O  
16+  
16  
I O  
UV7

SPARE  
MW64  
8  
I O  
17+  
17  
I O  
18

TBA13  
1  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

Signal-M  
1-5  
51.D:7

4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C G L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/09/2022

REV.	DESCRIPTION	DWN	CHRD	AE	CHIEF	MSR	APLK	ISSUE	DD/MM/YY
PROJECT: <b>1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT</b>									
OWNER: <b>IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY</b>									

Hoai Nhieu District, Binh Dinh Province

PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD. V= VENDOR  
**MAIN CONSTRUCTOR:** ISSUE MARK  
 **TTCL VIET NAM CORPORATION LIMITED** **A**  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
  
**SUB CONSTRUCTOR:** ESTEC  
 **EAST SEA TECHNOLOGY ENGINEERING**  
**ELECTRICAL AUTOMATION CO.,LTD**

Internal Wiring for PLC-SYS-01  
P1616

SCALE 1/1 DWG. NO. SCADA-08-003

PLC-SYS-0

I/O Card	PS for Signal	Relay	PS for Instruments	Termin
	+PS&Multi Line/21.i:2 Signal-L+ 1-5	50.D:2 Signal-M 1-5		
EI01 AI 8x1/2-1/4 Wire	B1S17 9 UV0 IW89 1 I0+			-TBA13 17 18
SPARE	10 UV1 IW100 2 I1+			19 20
SPARE	3 I2+ IW101 11 UV2			21 22
SPARE	4 I3+ IW101 12 UV3			23 24
SPARE	5 I4+ IW101 13 UV4			25 26
SPARE	6 I5+ IW108 14 UV5			27 0.5 A 28 29
SPARE	7 I6+ IW101 15 UV6			30 0.5 A 31 32
SPARE	8 I7+ IW101 16 UV7			33 0.5 A 34 35 36 0.5 A

The diagram illustrates the connection of an I/O card (EI01) to a power supply (PS), relay, and instrument processing stages, leading to terminal blocks. Key components include:

- I/O Card:** EI01, AI 8x1/2-1/4 Wire.
- Power Supply (PS) for Signal:** +PS&Multi Line/21.i:2, Signal-L+, 1-5.
- Relay:** 50.D:2, Signal-M, 1-5.
- Power Supply (PS) for Instruments:** -TBA13.
- Terminal Block:** -TBA13, featuring 36 numbered terminals (1-36).
- Intermediate Signals:** IW89, IW100, IW101, IW108.
- Relay Contacts:** B1S17, UV0-UV7.

4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/09/2022

REV.	DESCRIPTION	DWN	CHRD	NE	CHRD	MKT	APR	ISSUE	DD/MM/YY
<b>PROJECT:</b>									
<b>1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT</b>									
<b>OWNER:</b>									
	<b>IDEMITSU</b>	IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY							

Hoai Nhon District, Binh Dinh Province

PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.		V = VENDOR
<b>MAIN CONSTRUCTOR:</b>		
 <b>TTCL VIET NAM CORPORATION LIMITED</b>	ISSUE MARK	
TVC JOB No. _____	ACCOUNT No. _____	CUSTOMER'S ORDER No. _____
<b>SUB CONSTRUCTOR:</b>		
 <b>EAST SEA TECHNOLOGY ENGINEERING</b>	<b>ELECTRICAL AUTOMATION CO., LTD</b>	

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

# Internal Wiring for PLC-SYS-01

## B1S17

## PLC-SYS-01

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
----------	---------------	-------	--------------------	----------



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-SYS-01  
B1S18  
SCALE 1/1 DWG. NO. SCADA-08-003

52  
182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S1

SCALE 1/1 DWG. NO. SCADA-08-003

53  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S2

SCALE 1/1 DWG. NO. SCADA-08-003

54  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOM/MY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

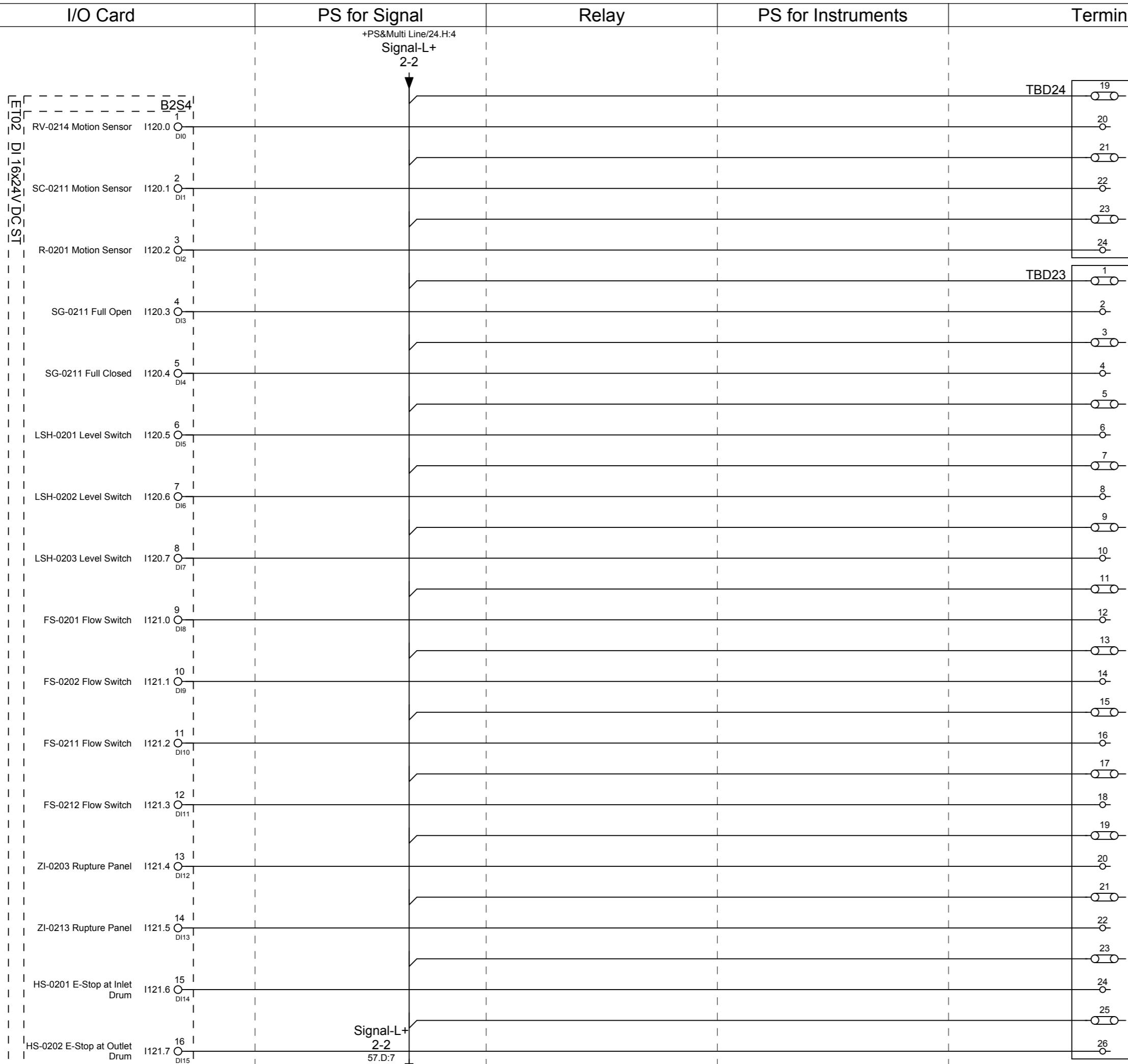
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S3  
55 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-01

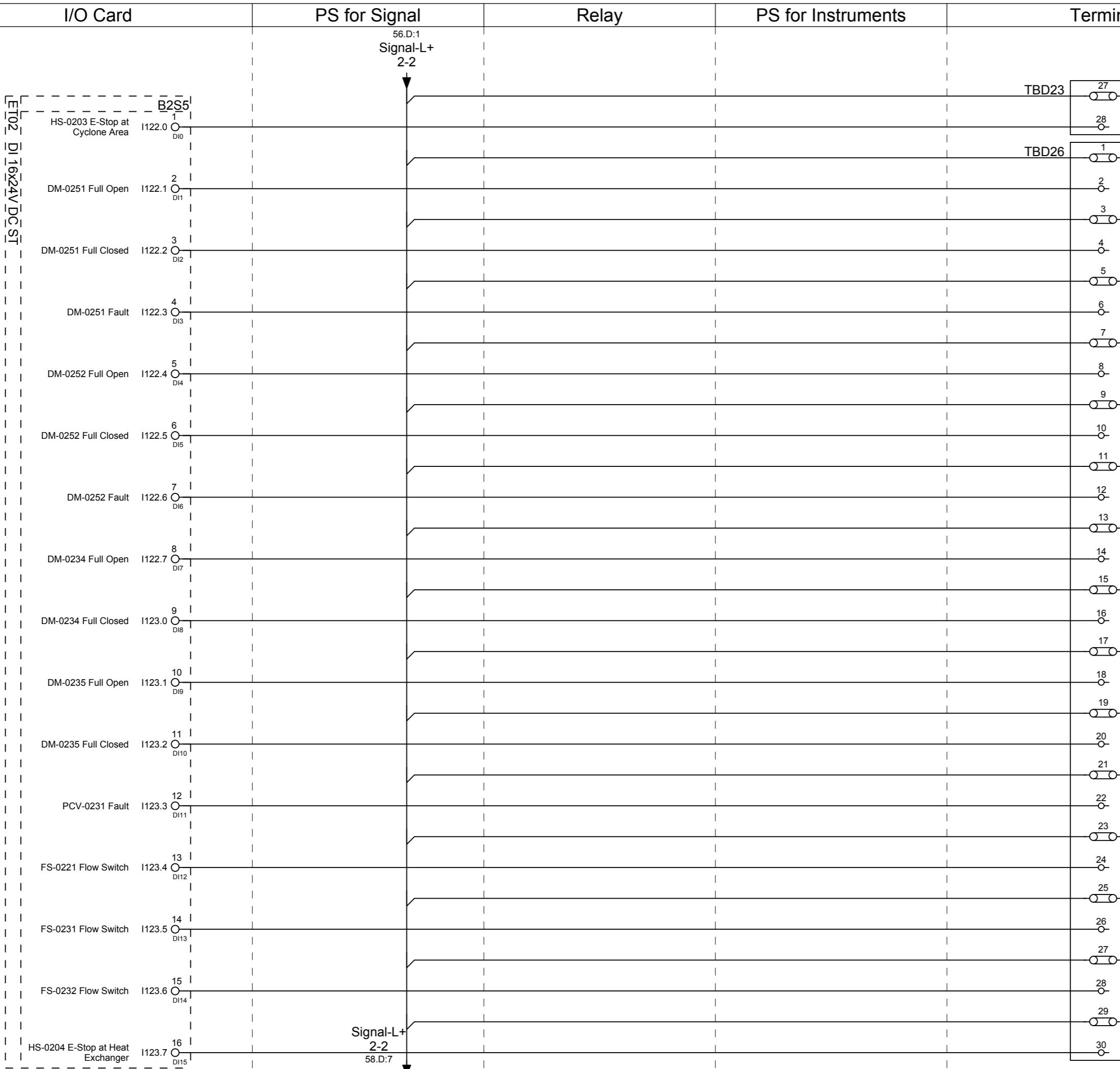


4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	08/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCODES CONFIDENTIAL  
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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ASUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang CityInternal Wiring for PLC-MR-01  
B2S4  
SCALE 1/1 DWG. NO. SCADA-08-003  
56 182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
 C ■ CUSTOMER  
 L ■ LICENSOR  
 F ■ FIELD  
 V ■ VENDOR

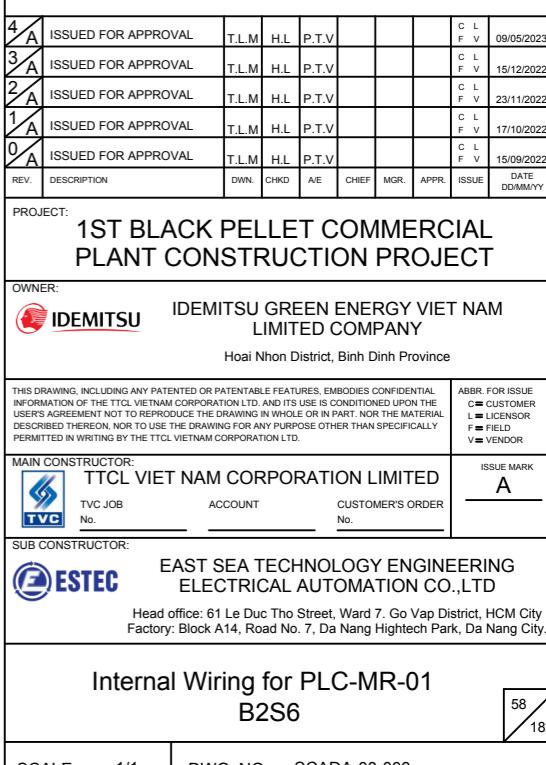
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

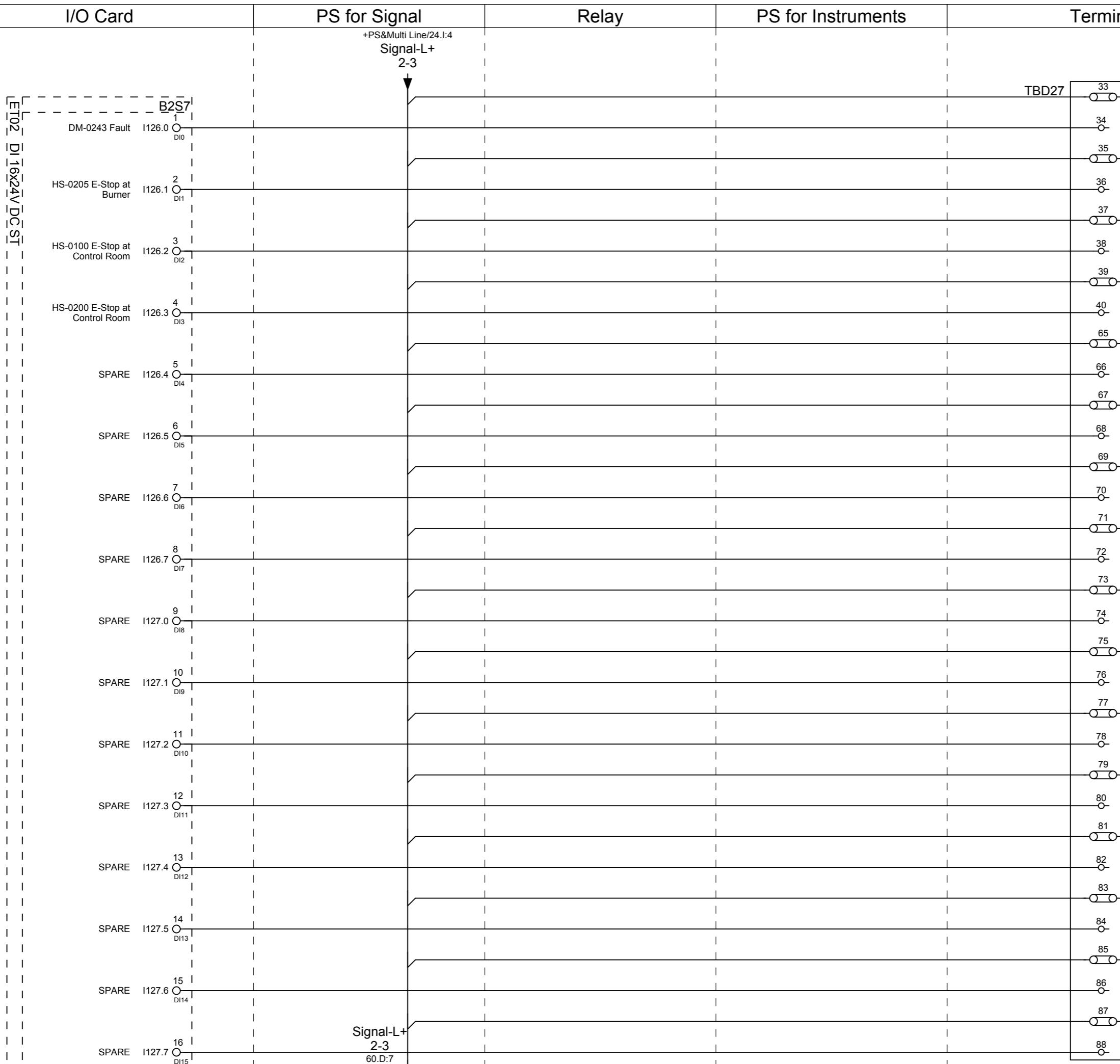
Internal Wiring for PLC-MR-01  
B2S5  
57  
182  
SCALE 1/1 DWG. NO. SCADA-08-003

PLC-MR-01

I/O Card	PS for Signal	Relay	PS for Instruments	Termina
		57.D:1 Signal-L+ 2-2		
B2S6				TBD27
DM-0132 Full Open I124.0 Di0				1
DM-0132 Full Closed I124.1 Di1				2
DM-0132 Fault I124.2 Di2				3
DM-0137 Full Open I124.3 Di3				4
DM-0137 Full Closed I124.4 Di4				5
DM-0143 Full Open I124.5 Di5				6
DM-0143 Full Closed I124.6 Di6				7
DM-0143 Fault I124.7 Di7				8
HS-0105 E-Stop at Burner I125.0 Di8				9
DM-0232 Full Open I125.1 Di9				10
DM-0232 Full Closed I125.2 Di10				11
DM-0232 Fault I125.3 Di11				12
DM-0237 Full Open I125.4 Di12				13
DM-0237 Full Closed I125.5 Di13				14
DM-0243 Full Open I125.6 Di14				15
DM-0243 Full Closed I125.7 Di15				16



## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DOM/MY

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
 OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
 B2S7

SCALE 1/1 DWG. NO. SCADA-08-003

59  
182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

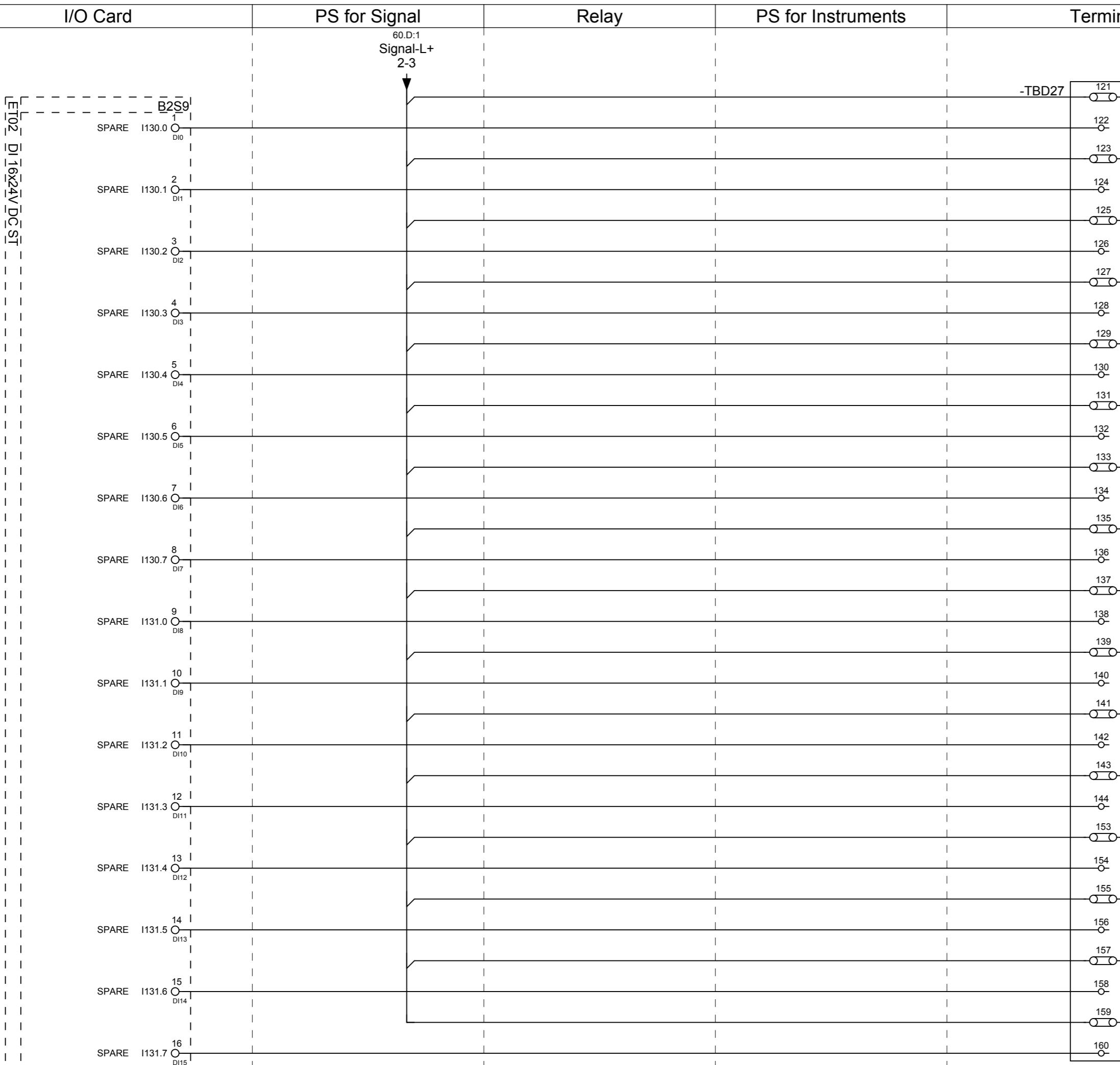
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK ASUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.Internal Wiring for PLC-MR-01  
B2S8  
SCALE 1/1 DWG. NO. SCADA-08-00360  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

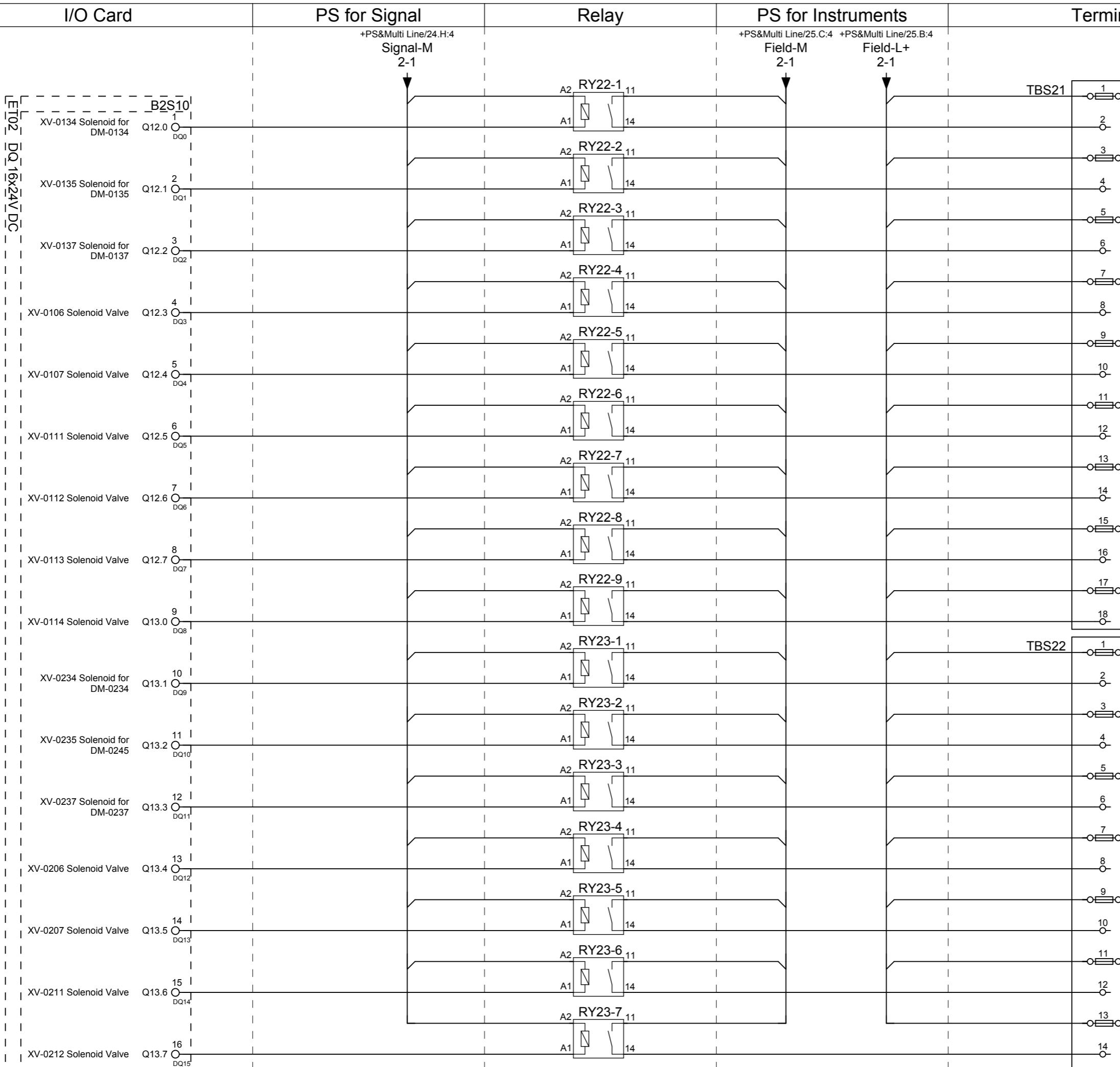
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S9

SCALE 1/1 DWG. NO. SCADA-08-003

61  
182

PLC-MR-01



4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/09/2022

OWNER: IDEMITSU GREEN ENERGY VIET NAM

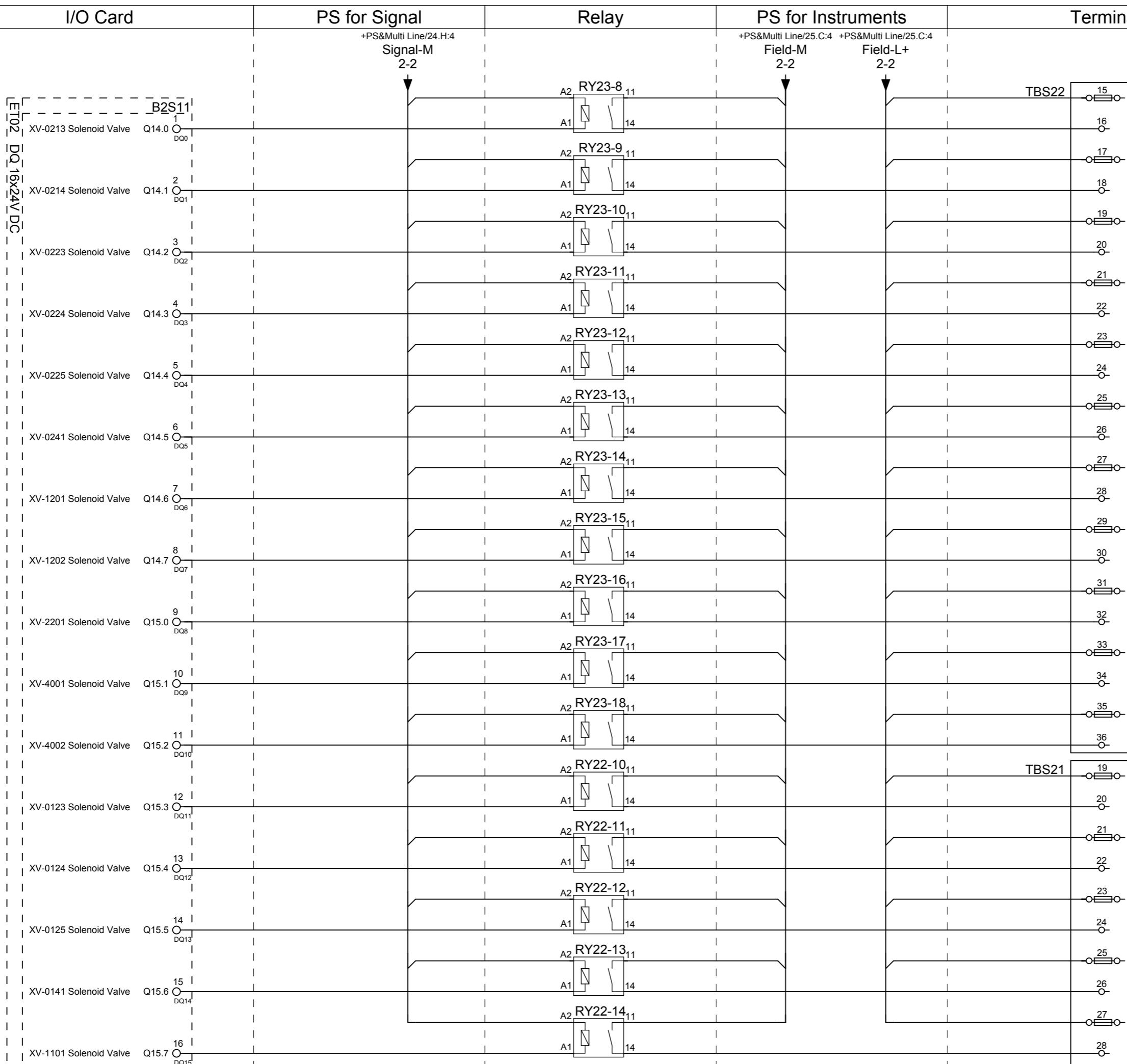
Hoai Nhon District, Binh Dinh Province

DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.			F = FIELD V = VENDOR	
<b>MAIN CONSTRUCTOR:</b>   <b>TTCL VIET NAM CORPORATION LIMITED</b> TVC JOB No. _____		<b>ACCOUNT</b> _____	<b>CUSTOMER'S ORDER No.</b> _____	<b>ISSUE MARK</b> <b>A</b> _____
<b>SUB CONSTRUCTOR:</b>   <b>EESTEC</b> EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD				

Head office: 61 Le Duc Tho Street, Ward 7. Go Vap District  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang

SCALE 1/1 DWG. NO. SCADA-08-003

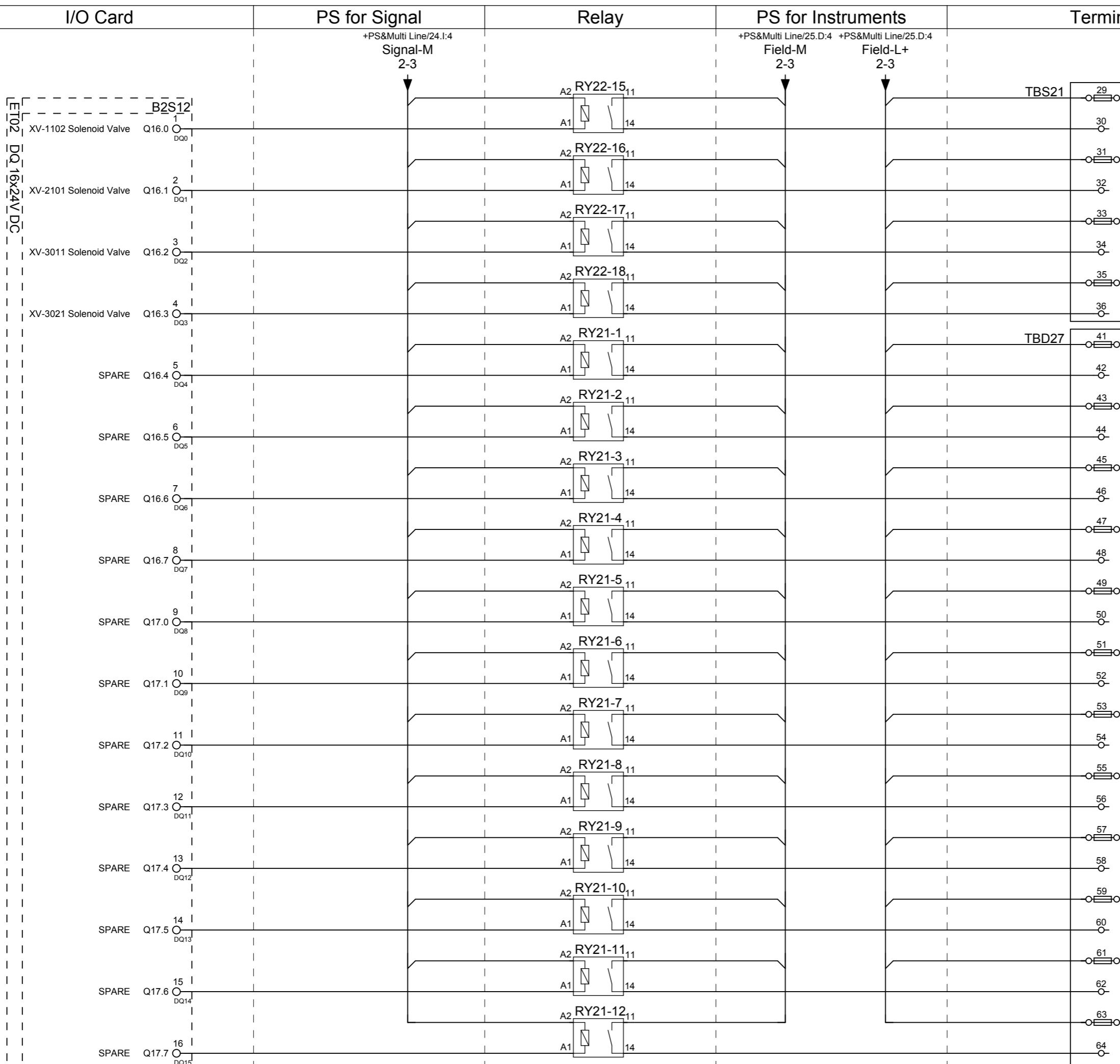
## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023	
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022	
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022	
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022	
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022	
REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED ISSUE MARK A								
TVC TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-01 B2S11								
SCALE	1/1	DWG. NO.	SCADA-08-003					

63  
182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S12

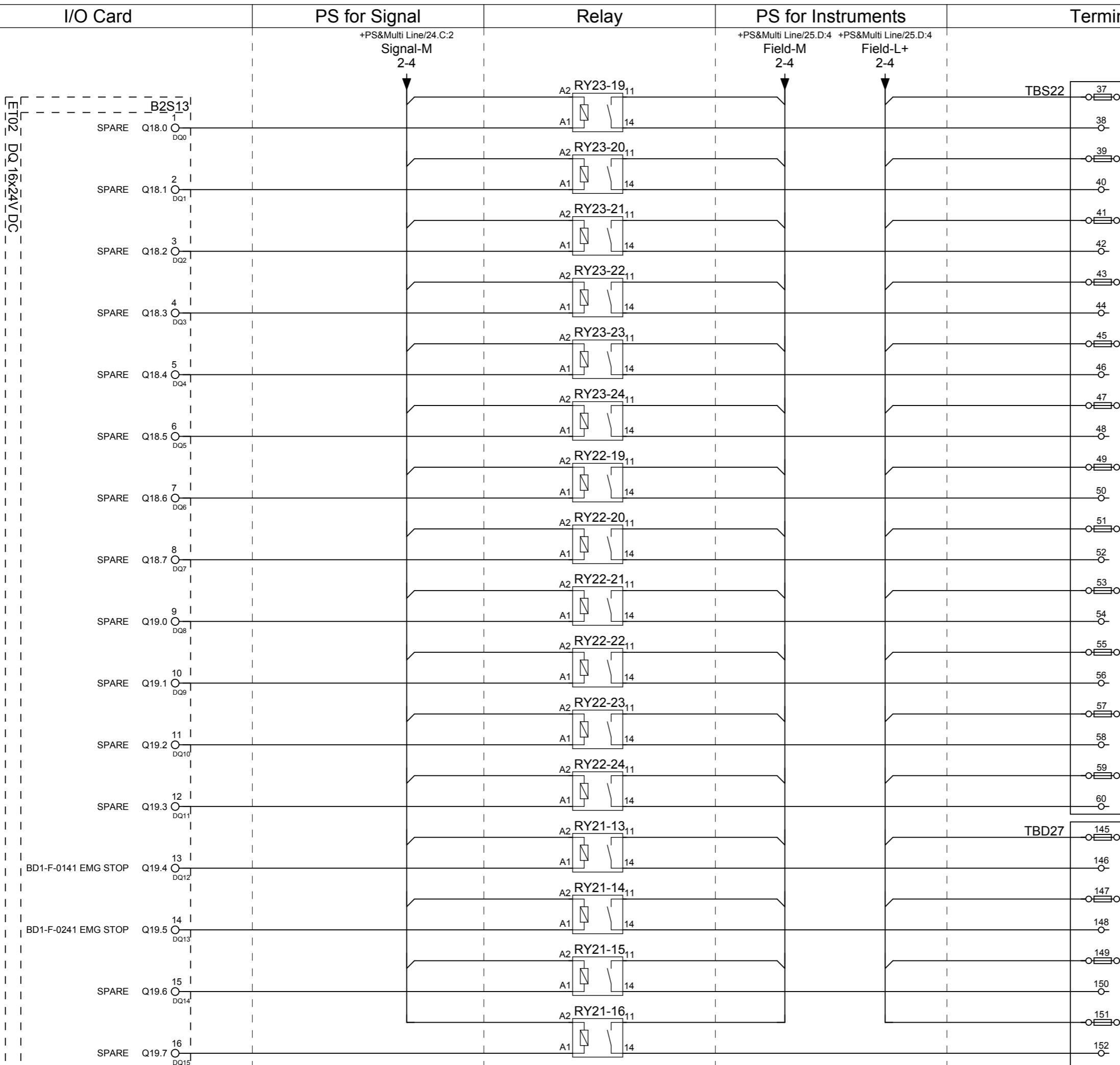
SCALE 1/1 DWG. NO. SCADA-08-003

64  
182

Scale Plot

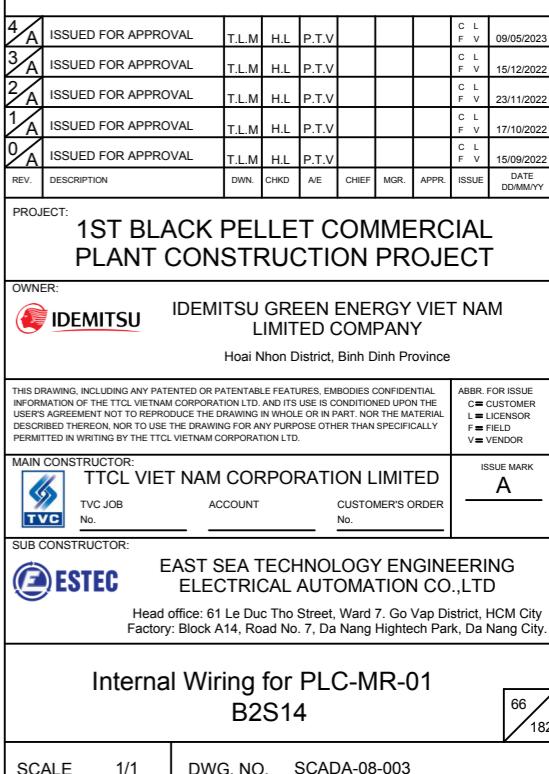
K File Name: SCADA-08-003

## PLC-MR-01



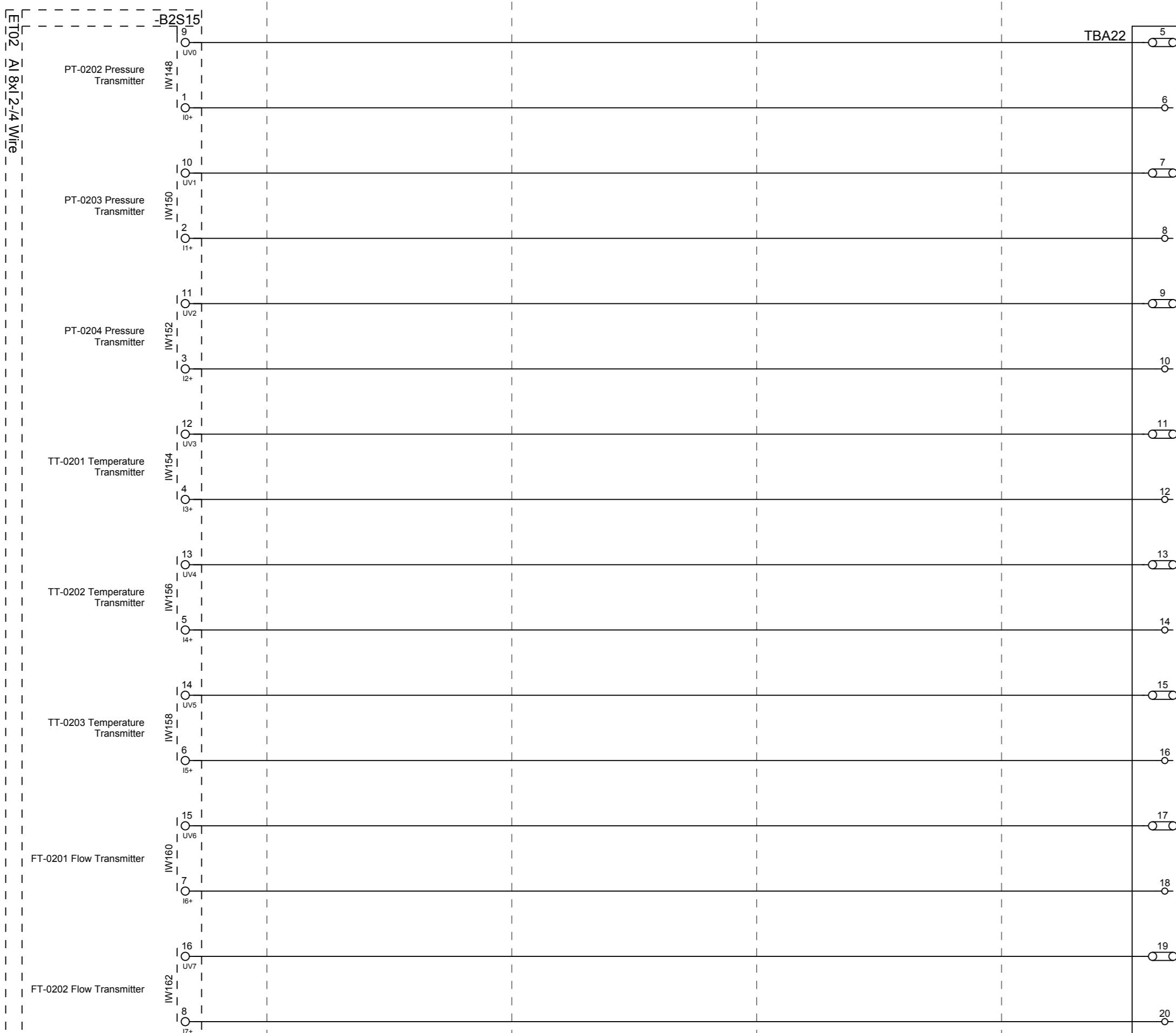
PLC-MR-01

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
PT-0100 Pressure Transmitter	B2S14 9 UV0 IW132 1 I0+			TBA21 1 2
PT-0101 Pressure Transmitter	10 UV1 IW134 2 I1+			3 4
PT-0102 Pressure Transmitter	11 UV2 IW136 3 I2+			5 6
PT-0103 Pressure Transmitter	12 UV3 IW138 4 I3+			7 8
PT-0104 Pressure Transmitter	13 UV4 IW140 5 I4+			9 10
TT-0101 Temperature Transmitter	14 UV5 IW142 6 I5+			11 12
PT-0200 Pressure Transmitter	15 UV6 IW144 7 I6+			TBA22 1 2
PT-0201 Pressure Transmitter	16 UV7 IW146 8 I7+			3 4



## PLC-MR-01

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
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4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

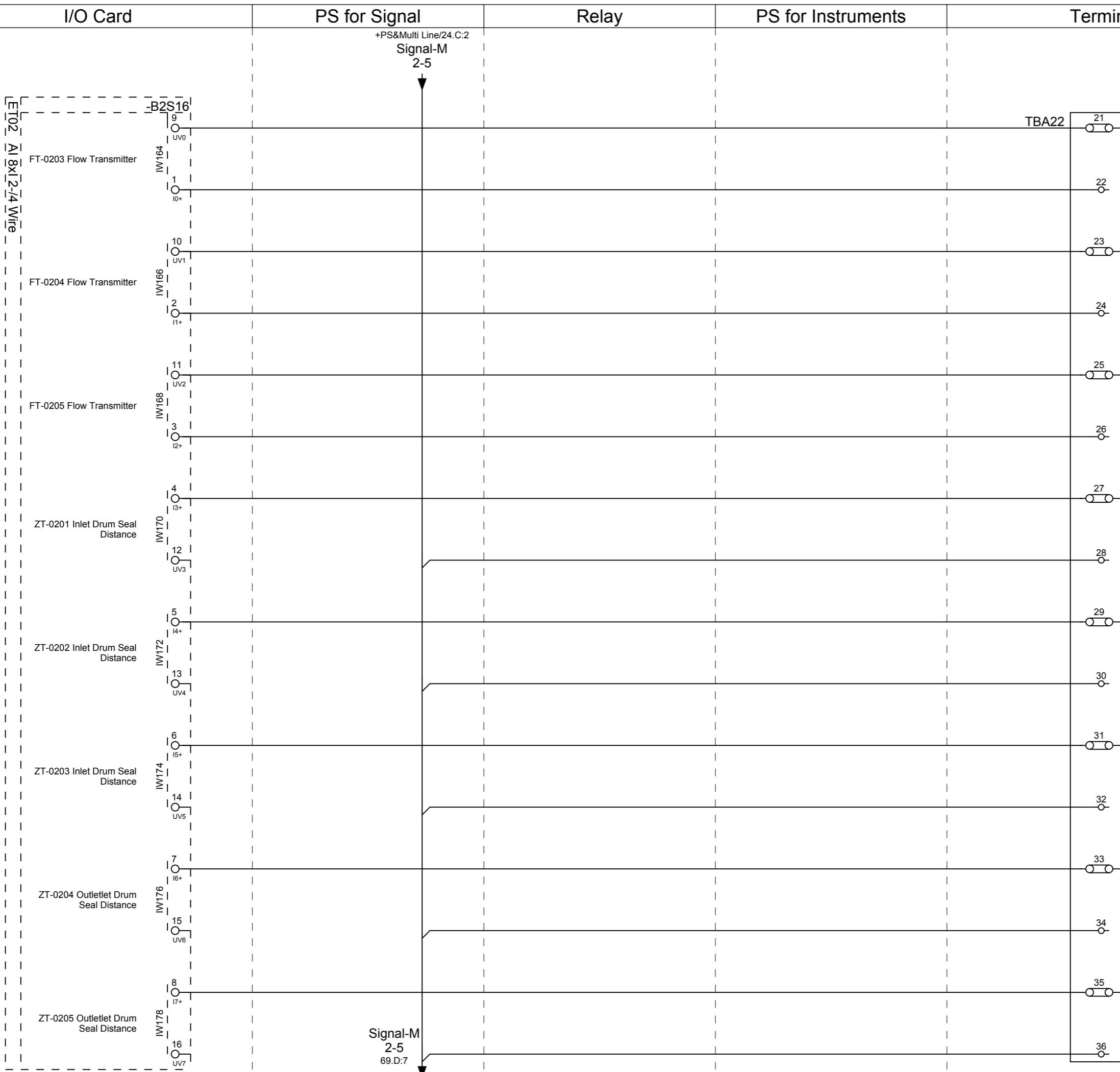
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S15

SCALE 1/1 DWG. NO. SCADA-08-003



## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
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F = FIELD  
V = VENDOR

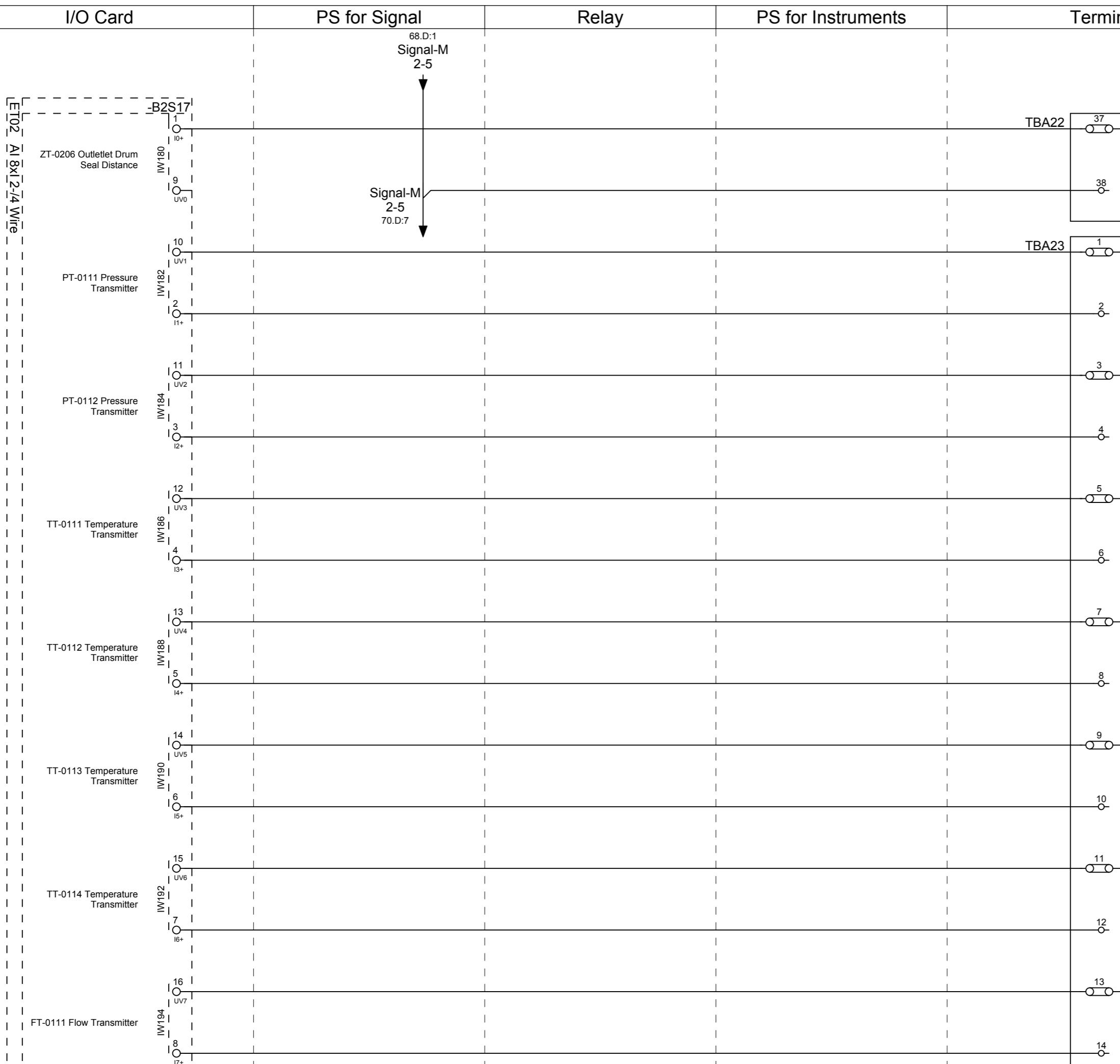
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S16  
68 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceABB.R. FOR ISSUE  
C CUSTOMER  
L LICENSOR  
F FIELD  
V VENDORMAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang CityInternal Wiring for PLC-MR-01  
B2S17  
69 182

SCALE 1/1 DWG. NO. SCADA-08-003

Scale Plot

K File Name: SCADA-08-003

PLC-MR-01

4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V		C L F V	15/09/2022

REV.	DESCRIPTION	DWN	CIRK	AE	CHEM	MSK.	AFCR	ISSUE	DD/MM/YY
<b>PROJECT:</b> <b>1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT</b>									
<b>OWNER:</b>									
	IDEMITSU	IDEMITSU GREEN ENERGY VIET NAM							

Hoai Nhon District, Binh Dinh Province

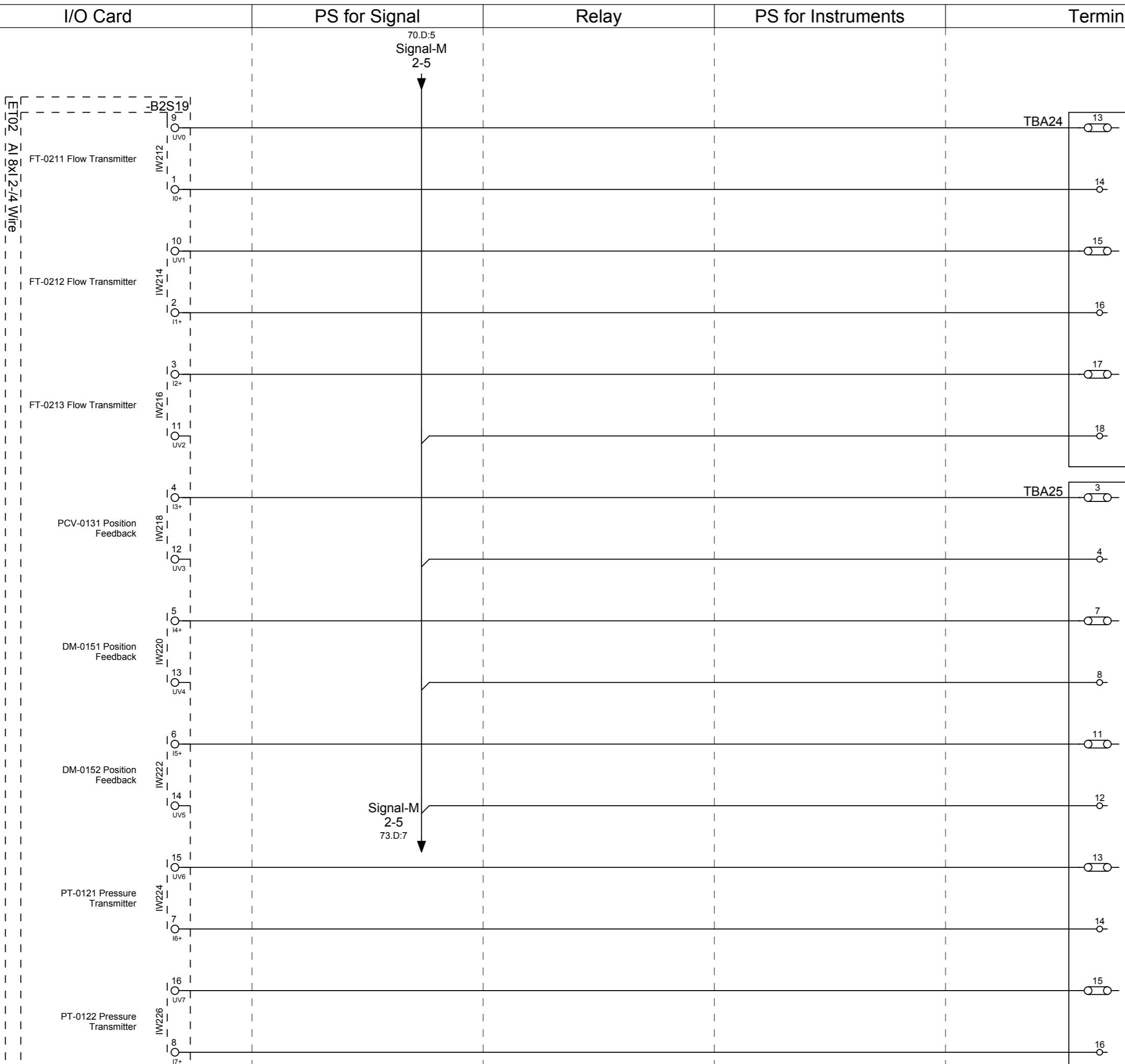
MAIN CONSTRUCTOR: <b>TTCI VIET NAM CORPORATION LIMITED</b>			ISSUE MARK <b>A</b>
 TTCI No.	TVCA JOB No.	ACCOUNT	CUSTOMER'S ORDER No.
SUB CONSTRUCTOR: <b>ESTEC</b> EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD			

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at [john.smith@researchinstitute.org](mailto:john.smith@researchinstitute.org).

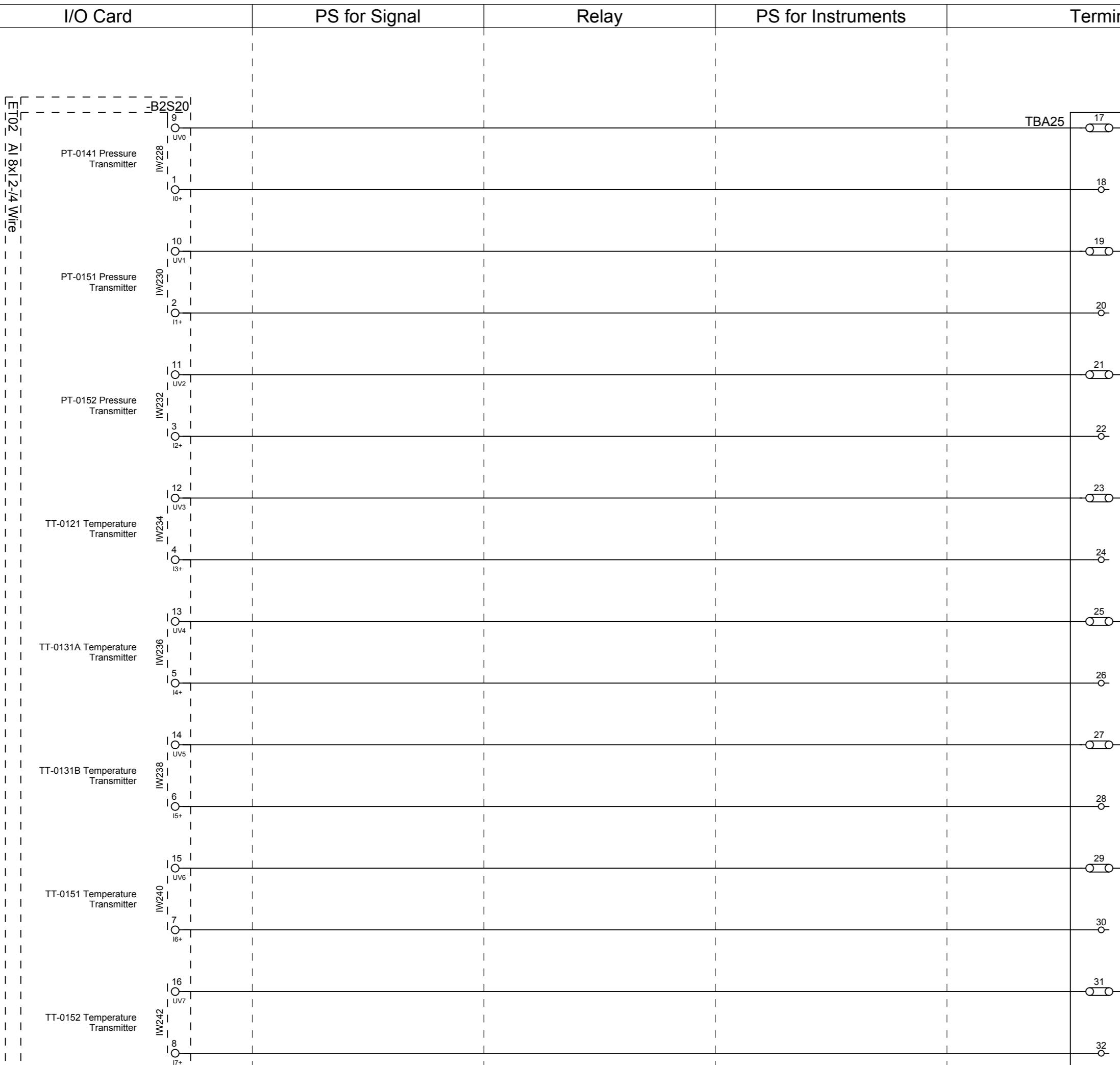
Internal Wiring for PLC-MR-01  
B2S18

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
TVC		TVC JOB No.	ACCOUNT	CUSTOMER'S ORDER No.				
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-01								
B2S19								
SCALE	1/1	DWG. NO.	SCADA-08-003					
71 182								

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

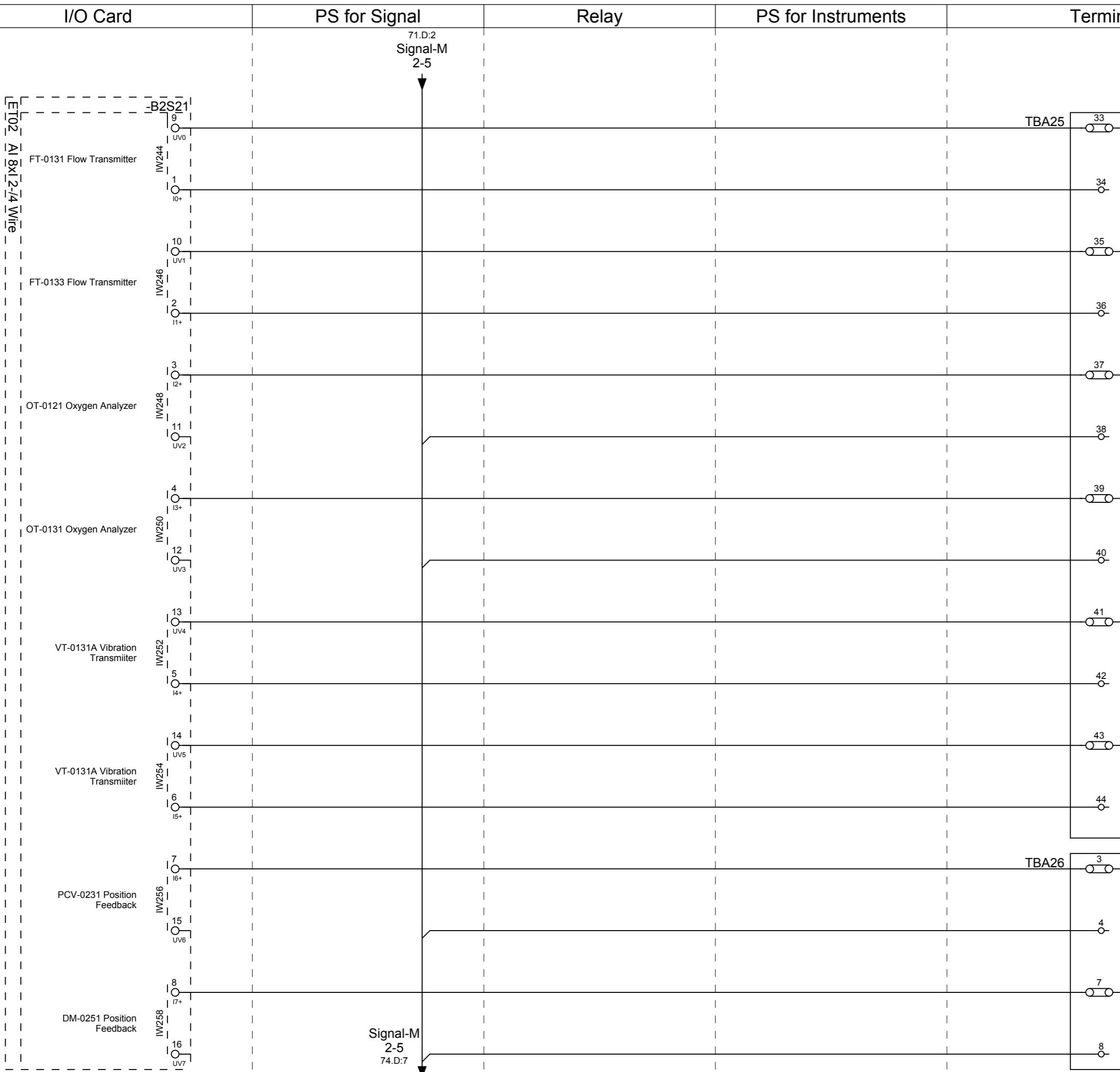
Internal Wiring for PLC-MR-01  
B2S20

SCALE 1/1 DWG. NO. SCADA-08-003

72  
182

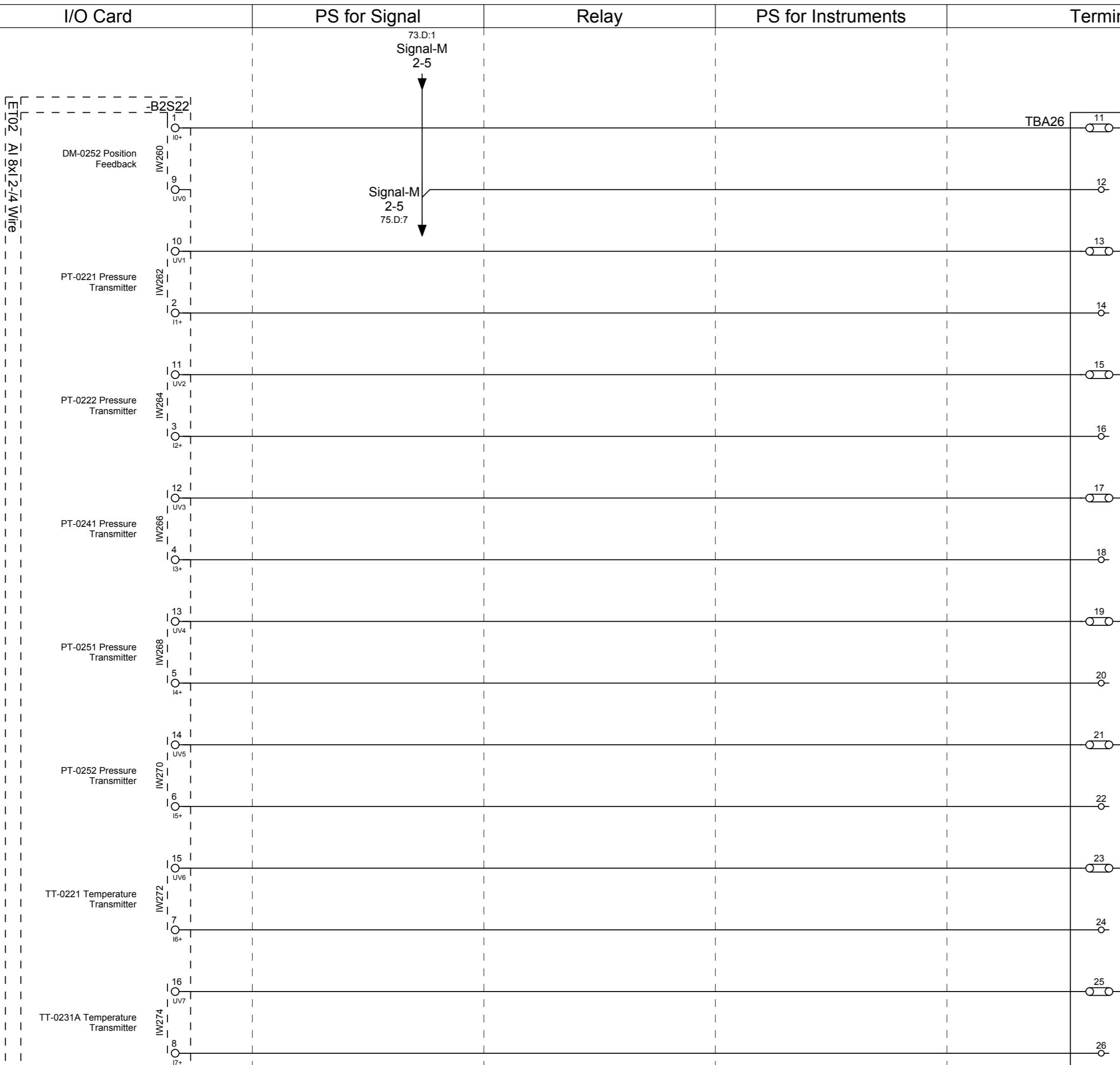
K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DDMM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
TVC		TVC JOB No.	ACCOUNT	CUSTOMER'S ORDER No.				
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City								
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-01								
B2S21								
SCALE	1/1	DWG. NO.	SCADA-08-003					

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
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0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
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V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

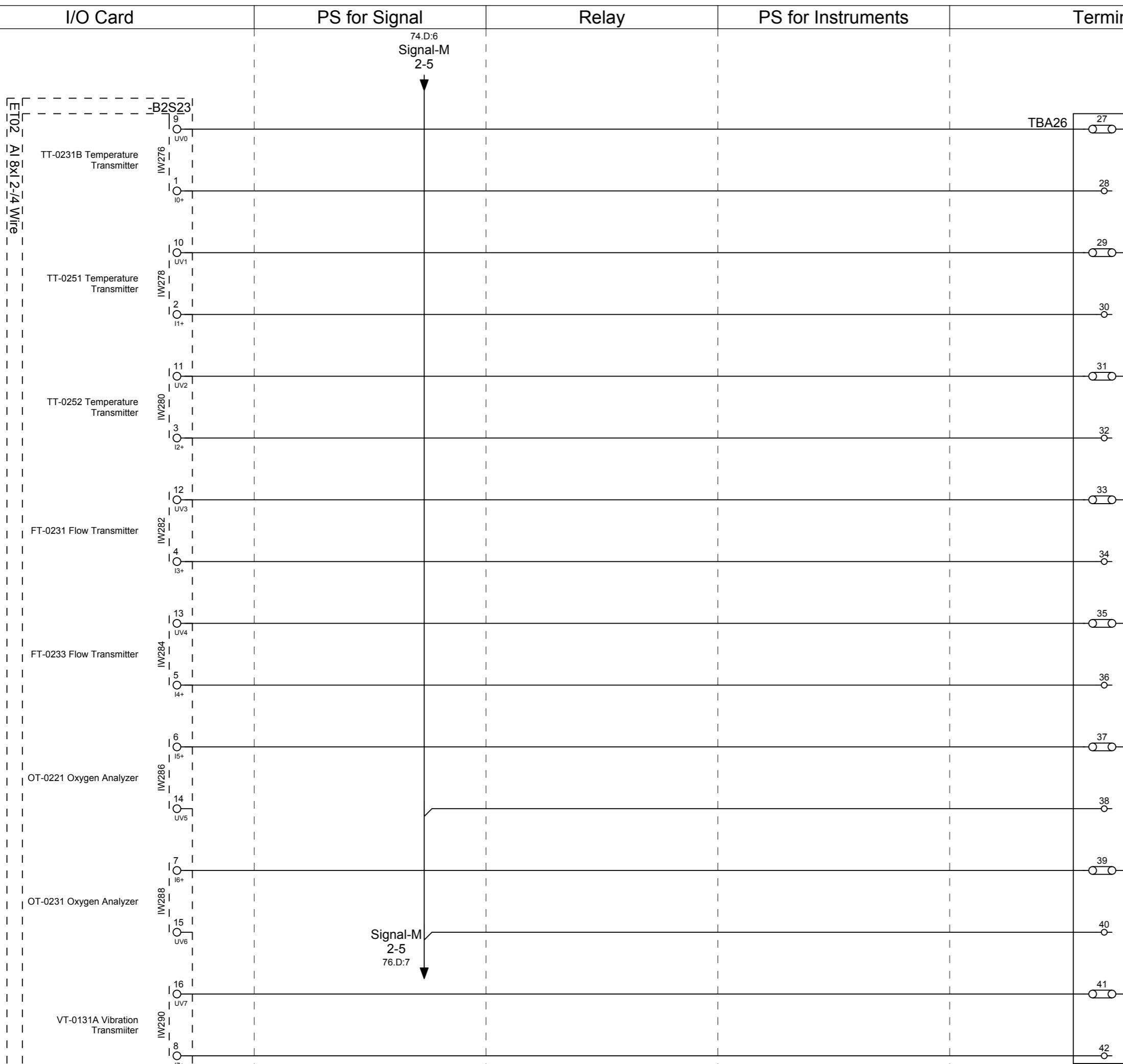
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S22

SCALE 1/1 DWG. NO. SCADA-08-003

74  
182

## PLC-MR-01



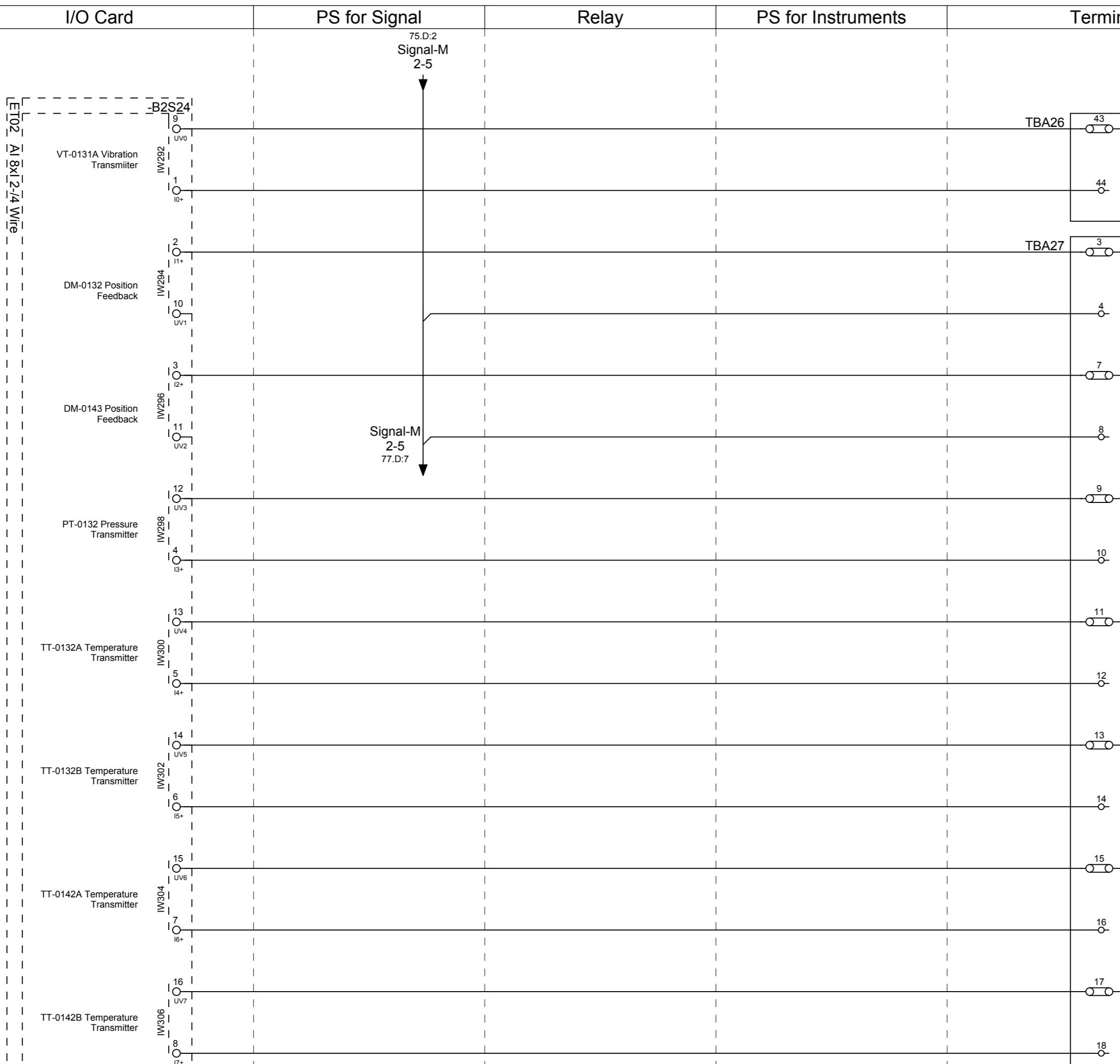
4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
TVC		TVC JOB No.	ACCOUNT	CUSTOMER'S ORDER No.				
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Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-01								
B2S23								
SCALE	1/1	DWG. NO.	SCADA-08-003					

75  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
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REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
00MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR  
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

ISSUE MARK A  
TVC

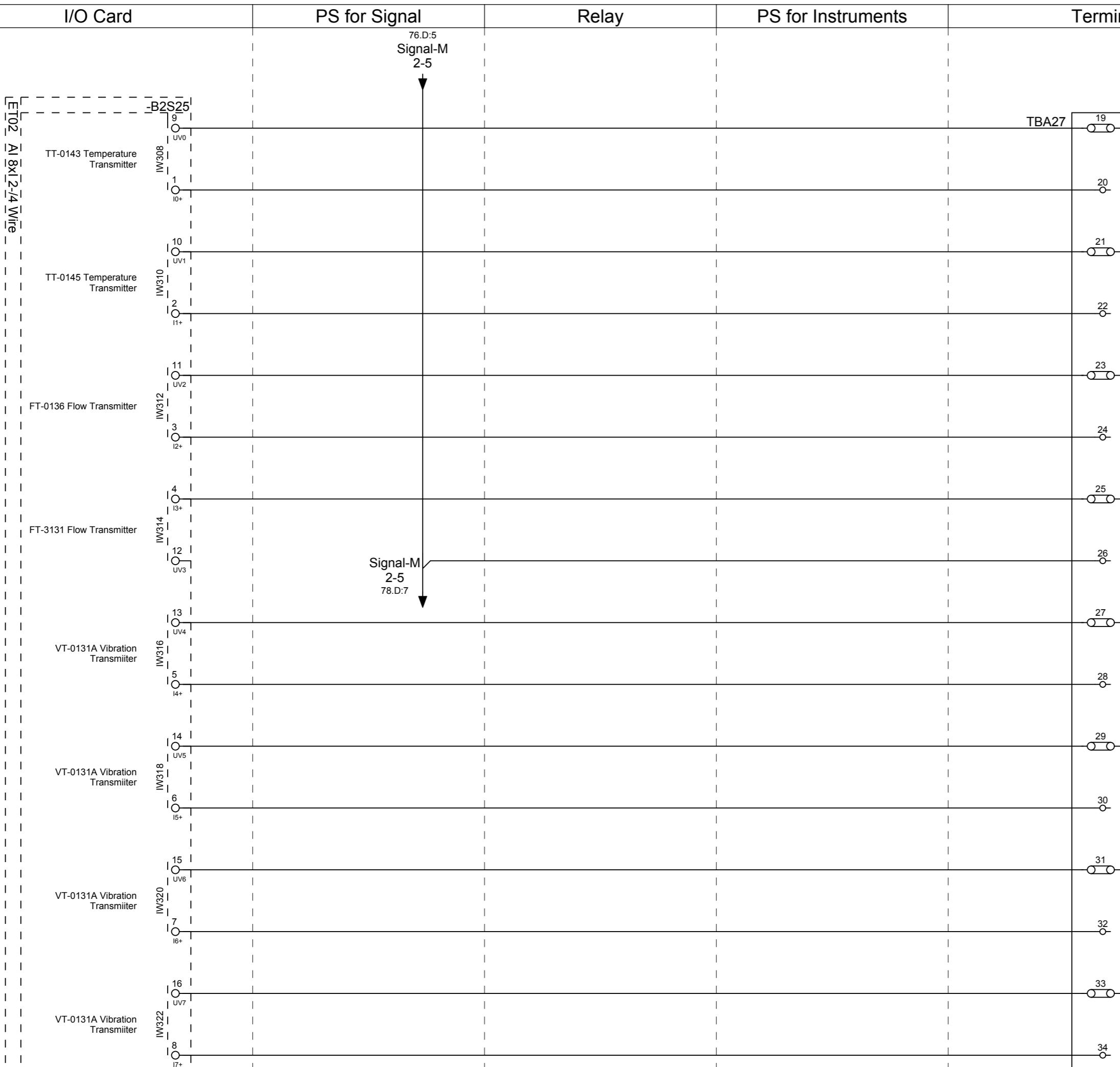
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-01  
B2S24  
76 182

SCALE 1/1 DWG. NO. SCADA-08-003  
76 182

B C D E F G H I J K  
Scale Plot K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
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REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
DOMM/YY								

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
 OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
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 L = LICENSOR  
 F = FIELD  
 V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
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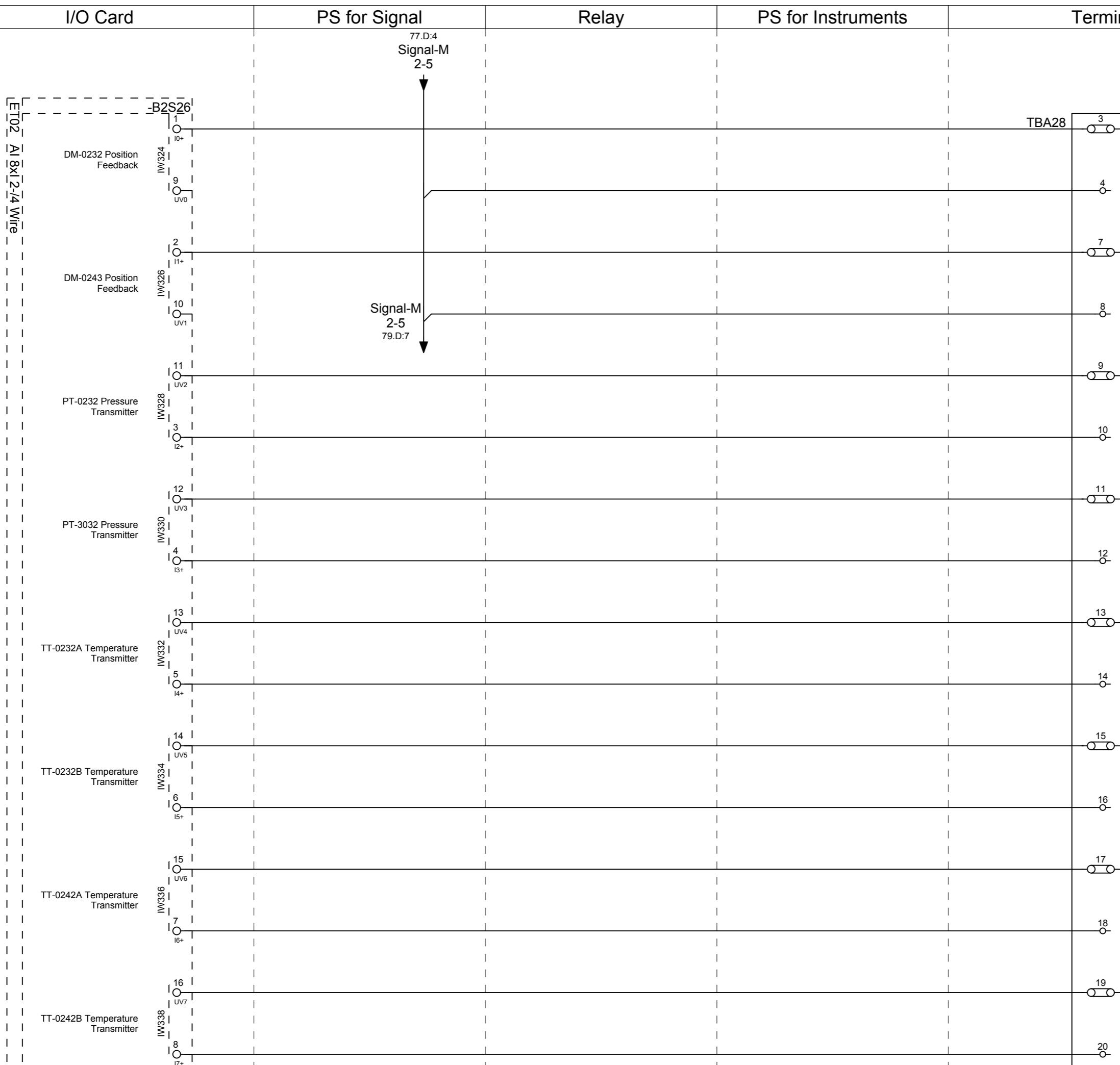
Internal Wiring for PLC-MR-01  
 B2S25

SCALE 1/1 DWG. NO. SCADA-08-003

77  
182

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
 C ■ CUSTOMER  
 L ■ LICENSOR  
 F ■ FIELD  
 V ■ VENDOR

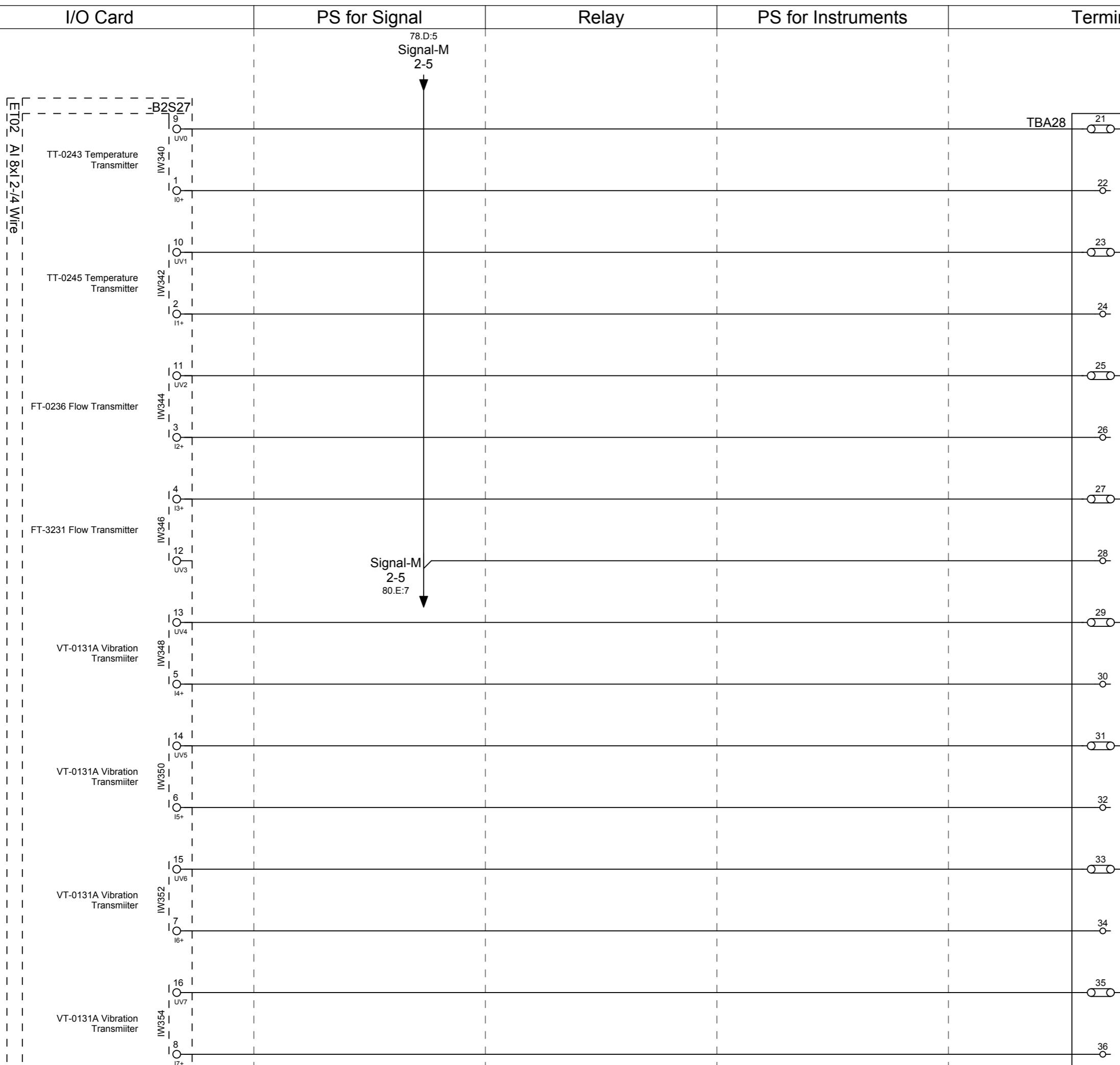
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
 ELECTRICAL AUTOMATION CO., LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
 B2S26  
 78 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: **1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT**  
 OWNER: **IDEMITSU** IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
 C = CUSTOMER  
 L = LICENSOR  
 F = FIELD  
 V = VENDOR

MAIN CONSTRUCTOR: **TTCL VIET NAM CORPORATION LIMITED**  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK **A**

SUB CONSTRUCTOR: **EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD**  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
**B2S27**

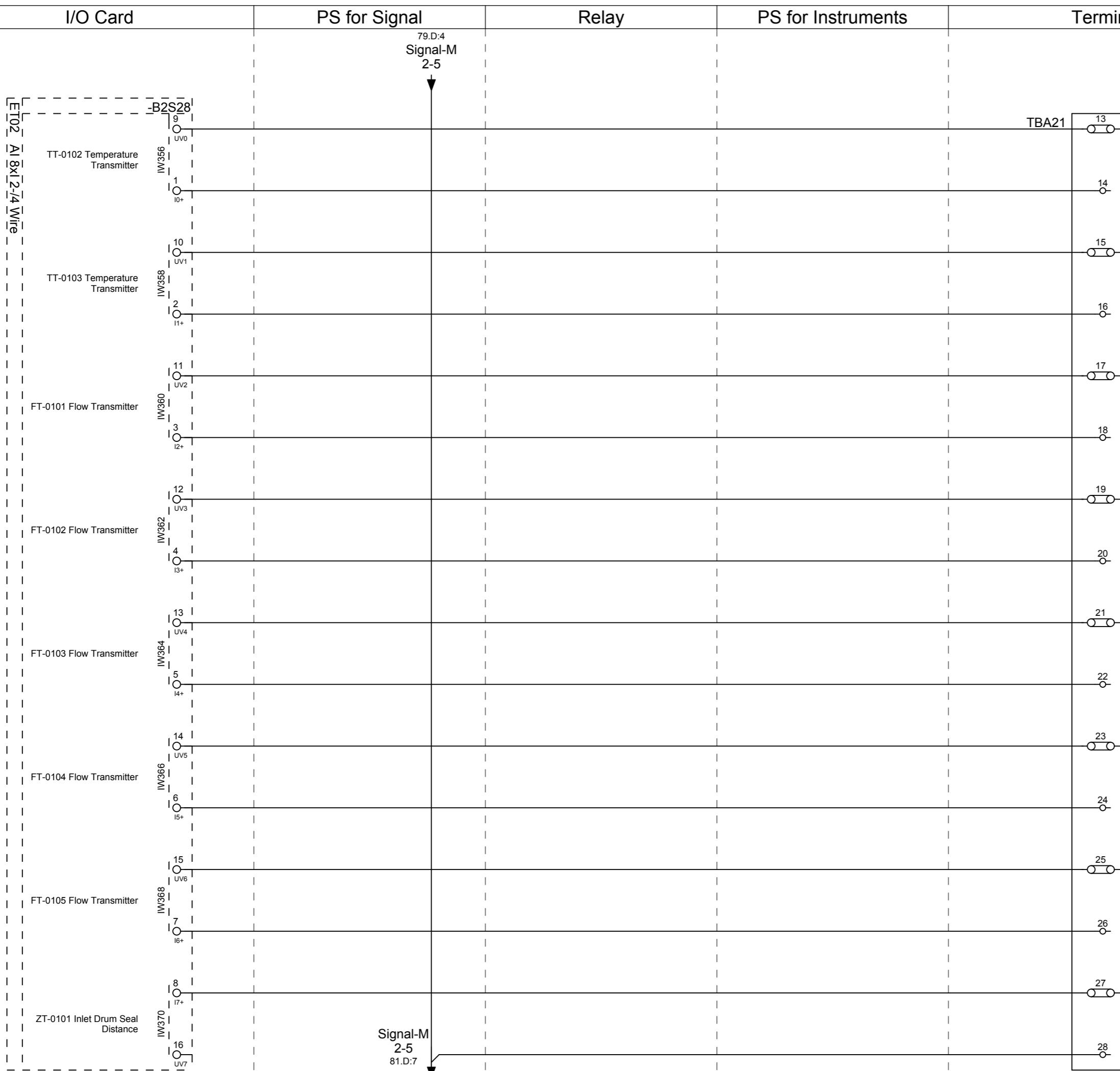
SCALE 1/1 DWG. NO. SCADA-08-003

79  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED

TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD

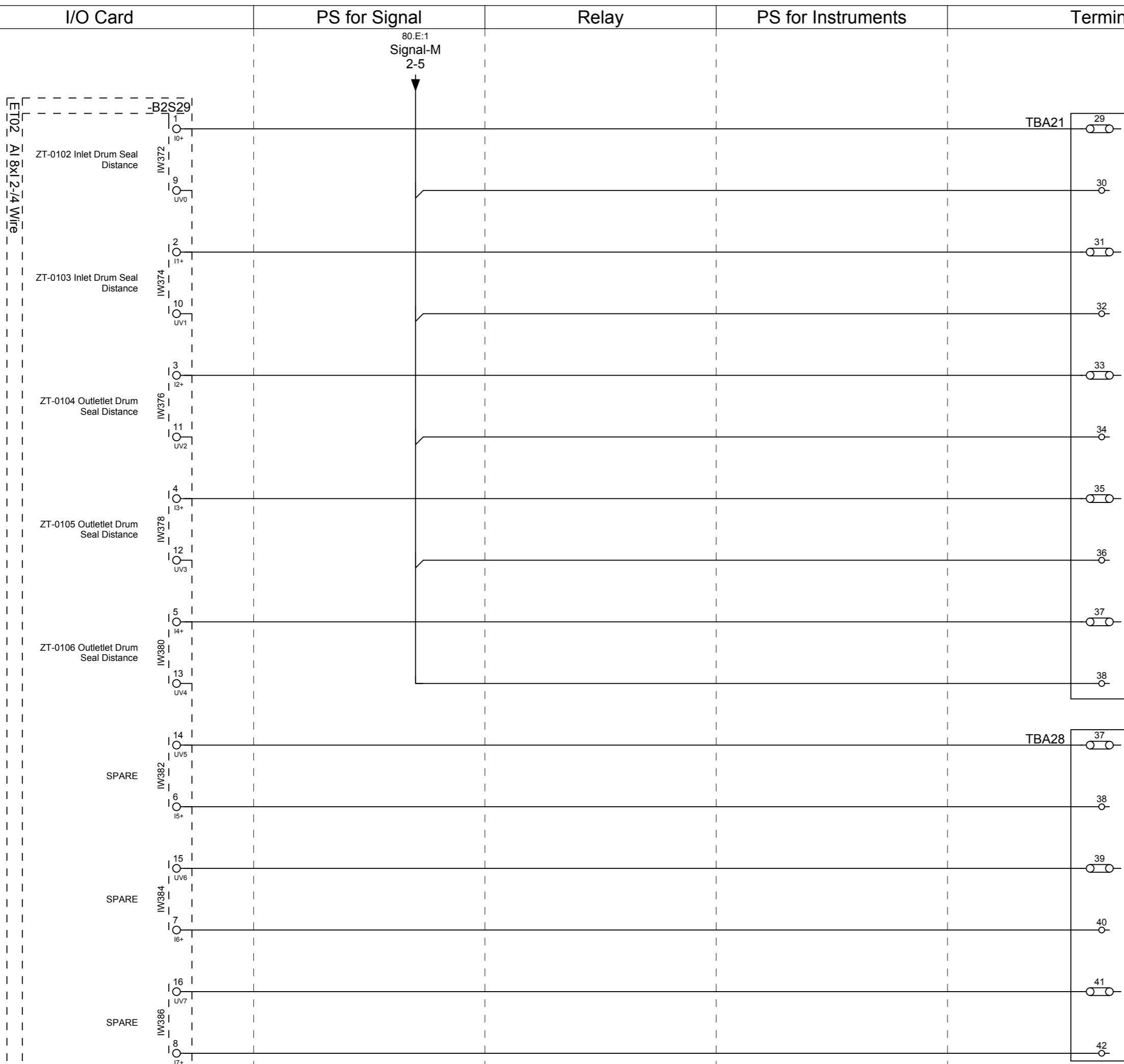
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S28

SCALE 1/1 DWG. NO. SCADA-08-003



## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S29

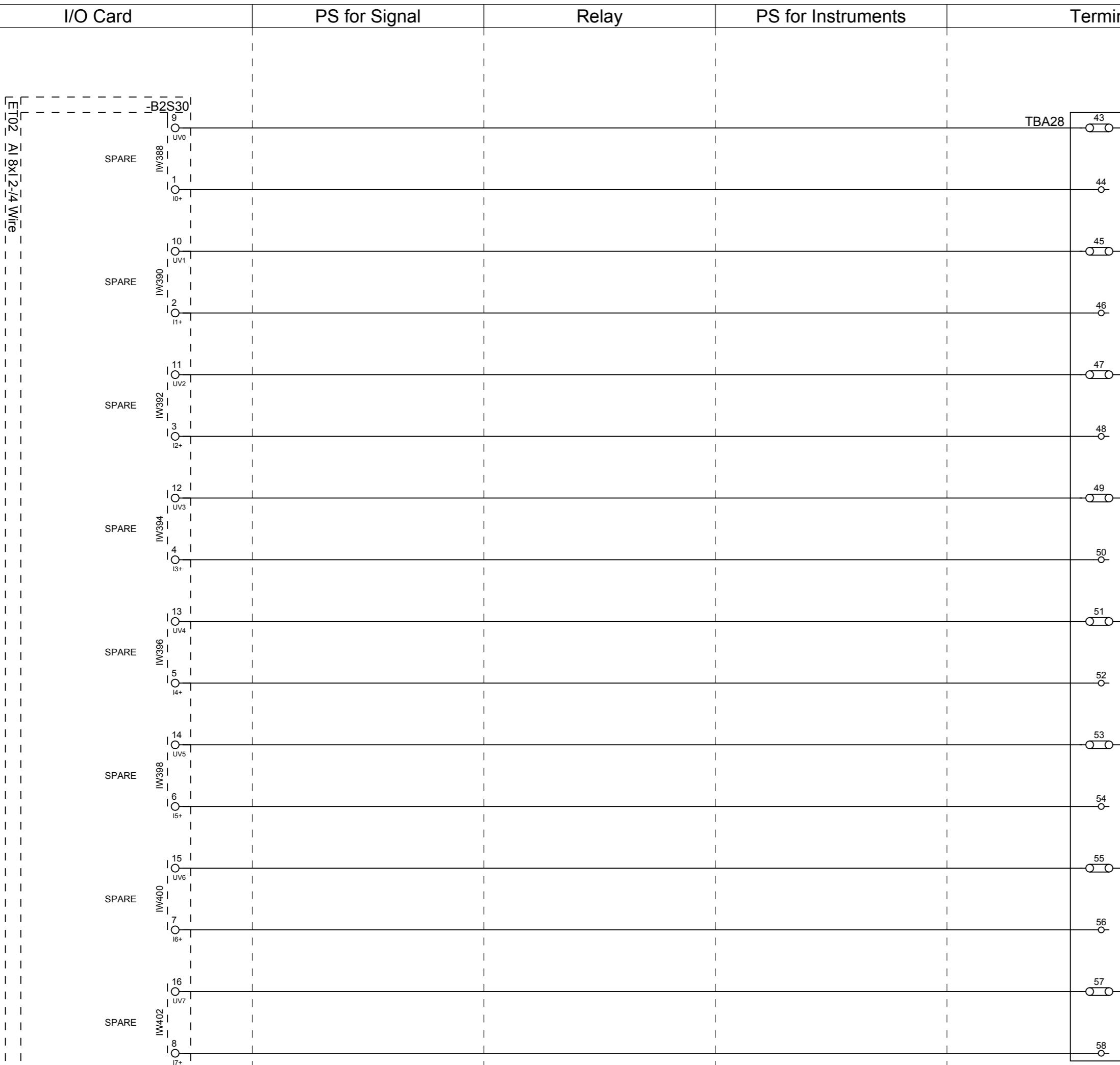
SCALE 1/1 DWG. NO. SCADA-08-003

81  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

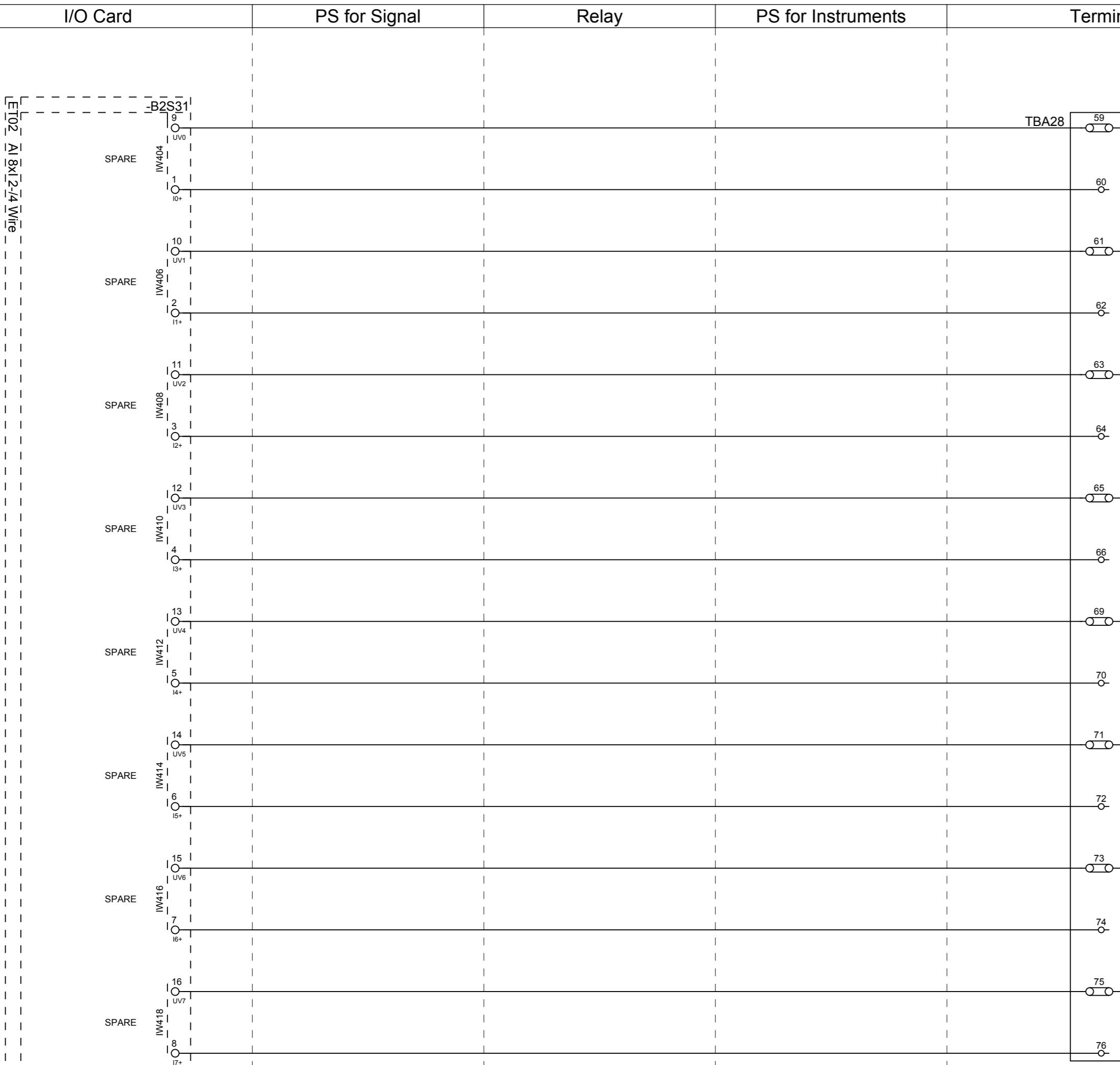
ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-01  
B2S30

SCALE 1/1 DWG. NO. SCADA-08-003  
82 182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
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F = FIELD  
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

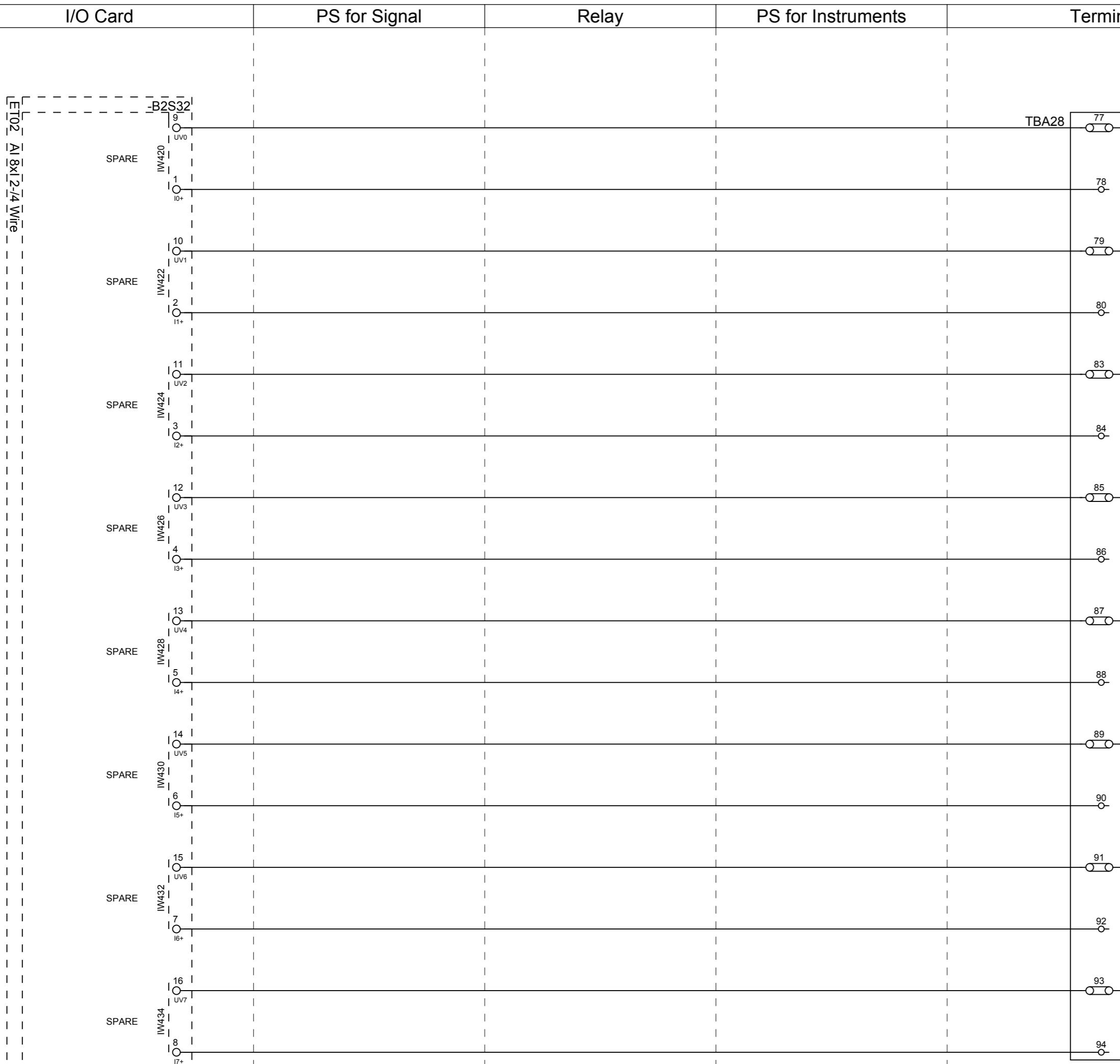
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S31

SCALE 1/1 DWG. NO. SCADA-08-003

83  
182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

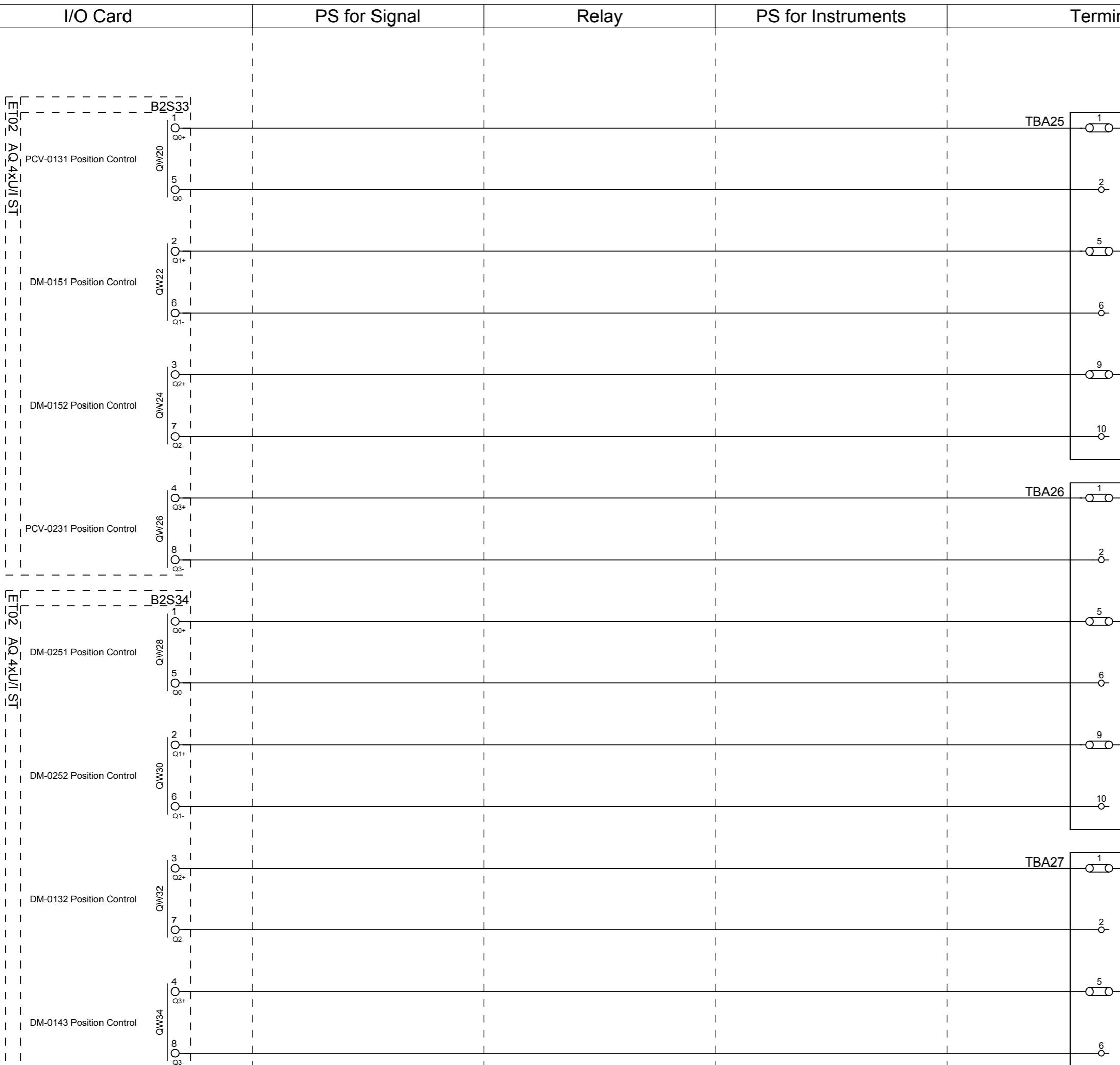
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S32

SCALE 1/1 DWG. NO. SCADA-08-003

84  
182

## PLC-MR-01



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE	MMYY
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PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
 OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

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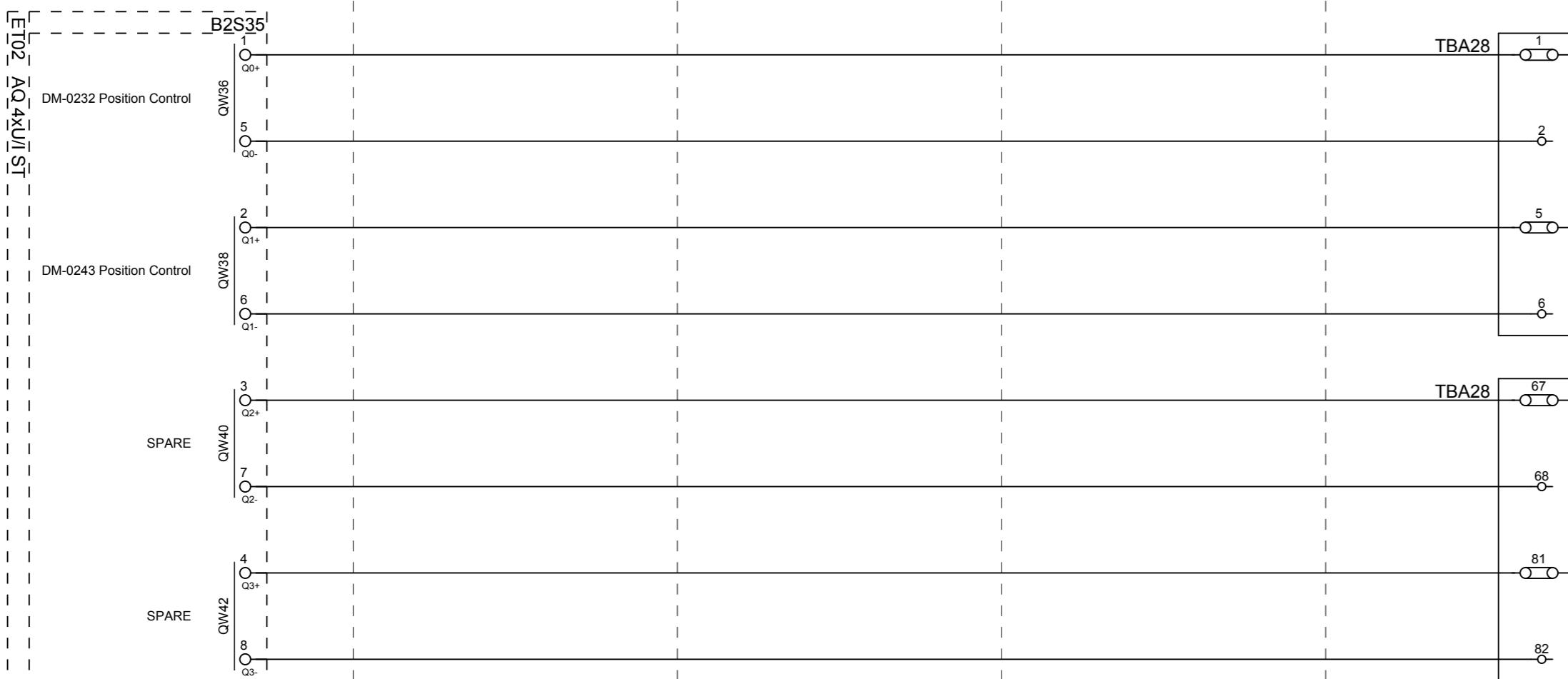
MAIN CONSTRUCTOR: TTCL VIETNAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
 B2S33, B2S34  
 SCALE 1/1 DWG. NO. SCADA-08-003  
 85 182

## PLC-MR-01

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
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4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/09/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
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L = LICENSOR  
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-01  
B2S35

86  
182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-MR-02  
B3S1

SCALE 1/1 DWG. NO. SCADA-08-003

87  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DOM/MY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S2

SCALE 1/1 DWG. NO. SCADA-08-003

88  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOM/MY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-02  
B3S3  
SCALE 1/1 DWG. NO. SCADA-08-003  
89 182  
K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S4

SCALE 1/1 DWG. NO. SCADA-08-003

90 182

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

DOMM/YY

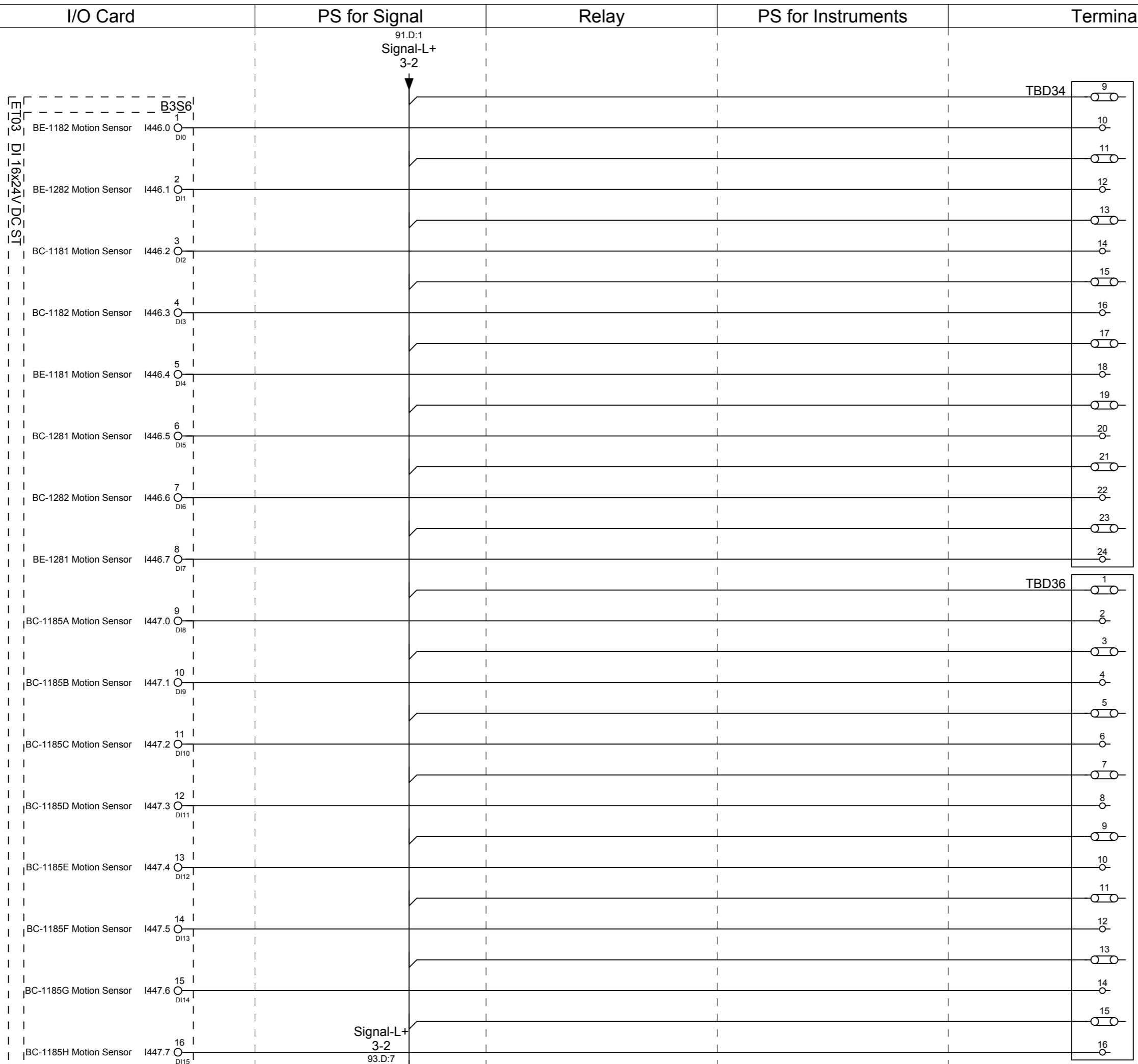
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCODES CONFIDENTIAL  
INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE  
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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang CityInternal Wiring for PLC-MR-02  
B3S5

SCALE 1/1 DWG. NO. SCADA-08-003

91 182

Scale Plot K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR:

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S6

SCALE 1/1 DWG. NO. SCADA-08-003

92  
182

Scale Plot

K File Name: SCADA-08-003



## PLC-MR-02



ABBR. FOR ISSUE	C CUSTOMER	L LICENSOR	F FIELD	V VENDOR
4/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 09/05/2023				
3/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 15/12/2022				
2/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 23/11/2022				
1/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 17/10/2022				
0/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 15/09/2022				
REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY				
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT				
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY				
Hoai Nhon District, Binh Dinh Province				
THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCOMBRES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR TO USE THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.				
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED ISSUE MARK A				
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.				
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD				
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City				
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.				
Internal Wiring for PLC-MR-02 B3S8				
SCALE 1/1 DWG. NO. SCADA-08-003				

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO.,LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S9

95 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DNW	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DOM/MY

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S10

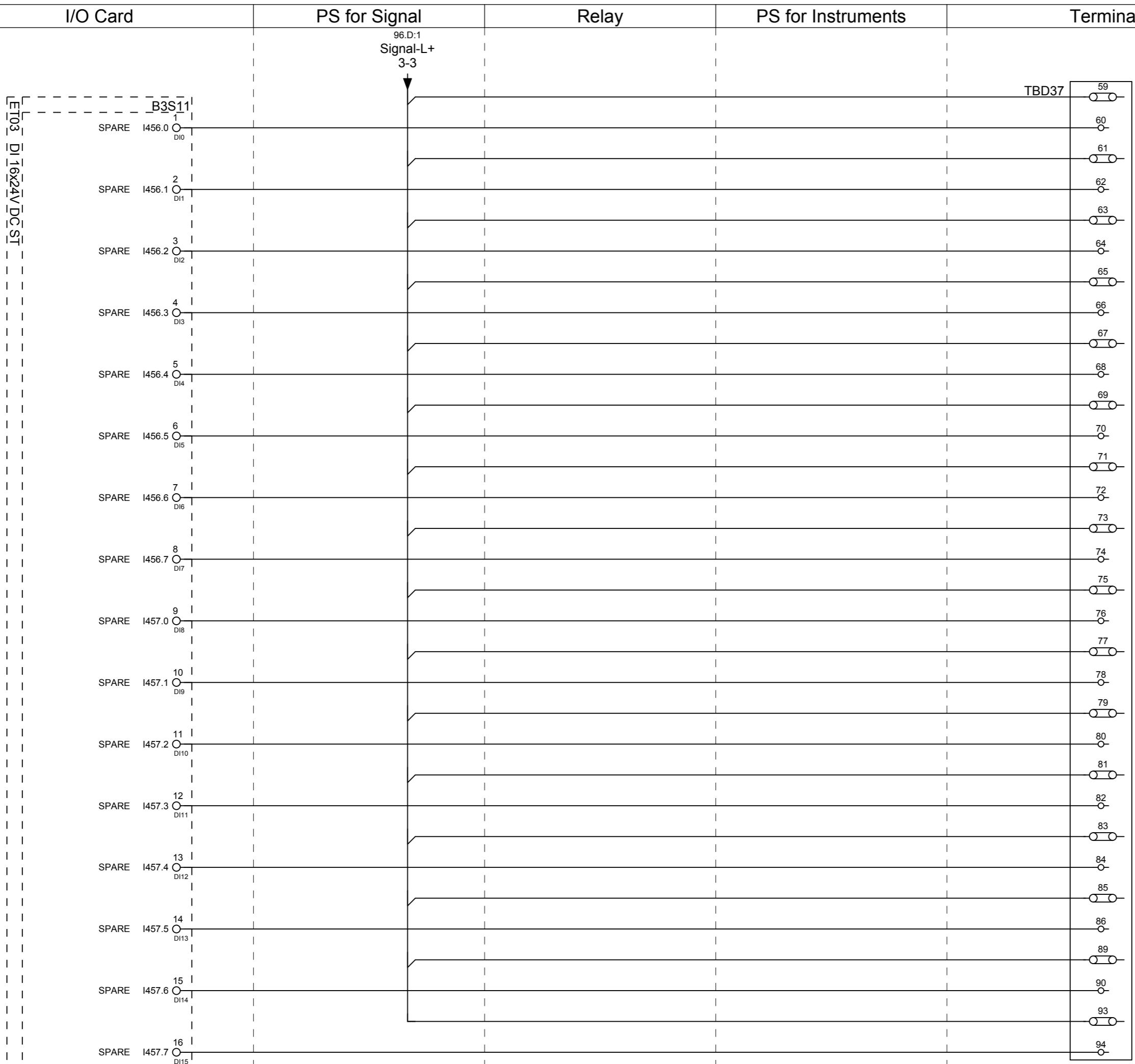
SCALE 1/1 DWG. NO. SCADA-08-003

96  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

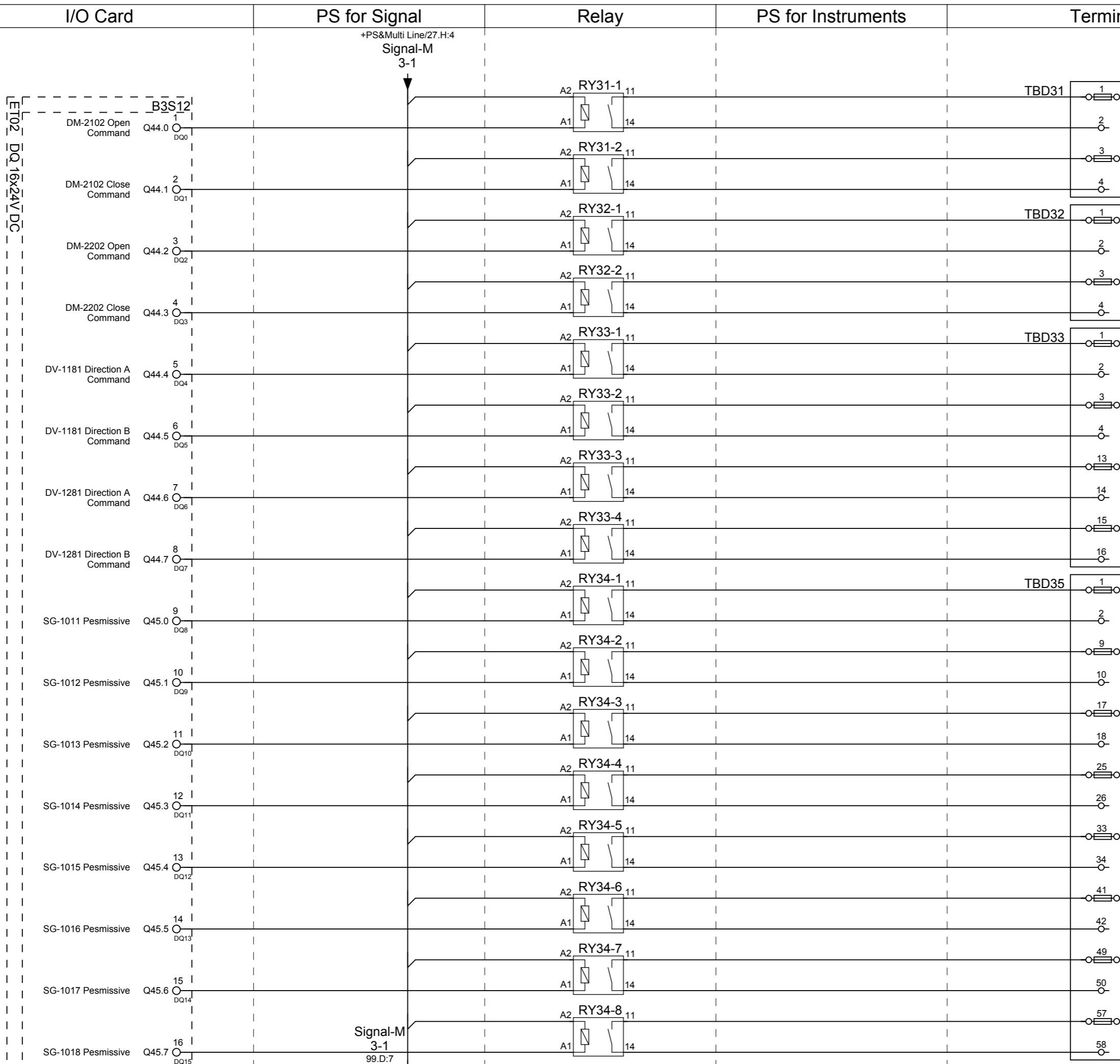
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

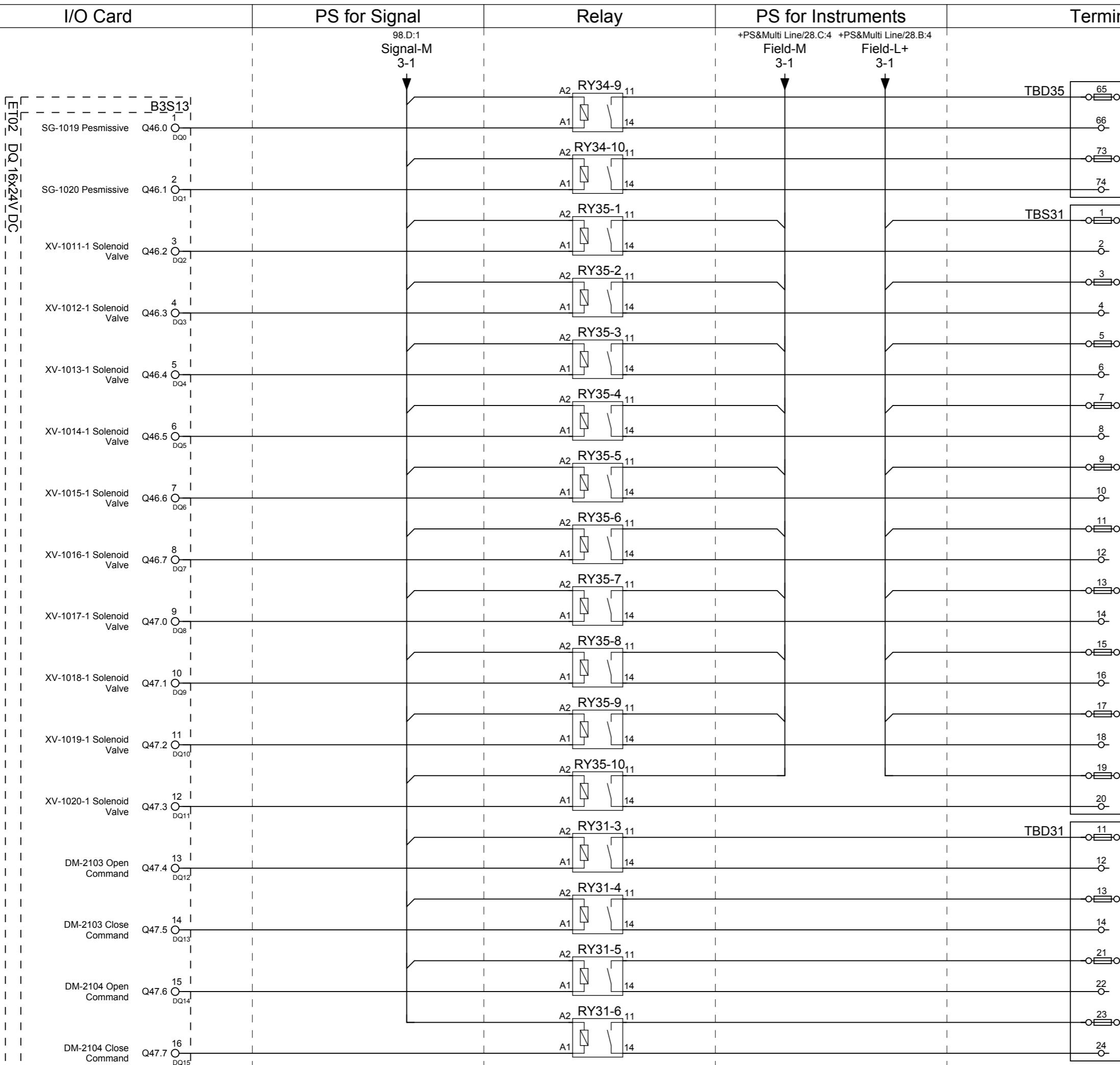
Internal Wiring for PLC-MR-02  
B3S11  
97 182  
SCALE 1/1 DWG. NO. SCADA-08-003  
K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023	
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022	
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022	
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022	
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022	
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCOMBRES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.								
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
TVC JOB No.				ACCOUNT		CUSTOMER'S ORDER No.		
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-02 B3S12								
SCALE	1/1	DWG. NO.		SCADA-08-003				
98	182							
Scale Plot								
K File Name: SCADA-08-003								

## PLC-MR-02



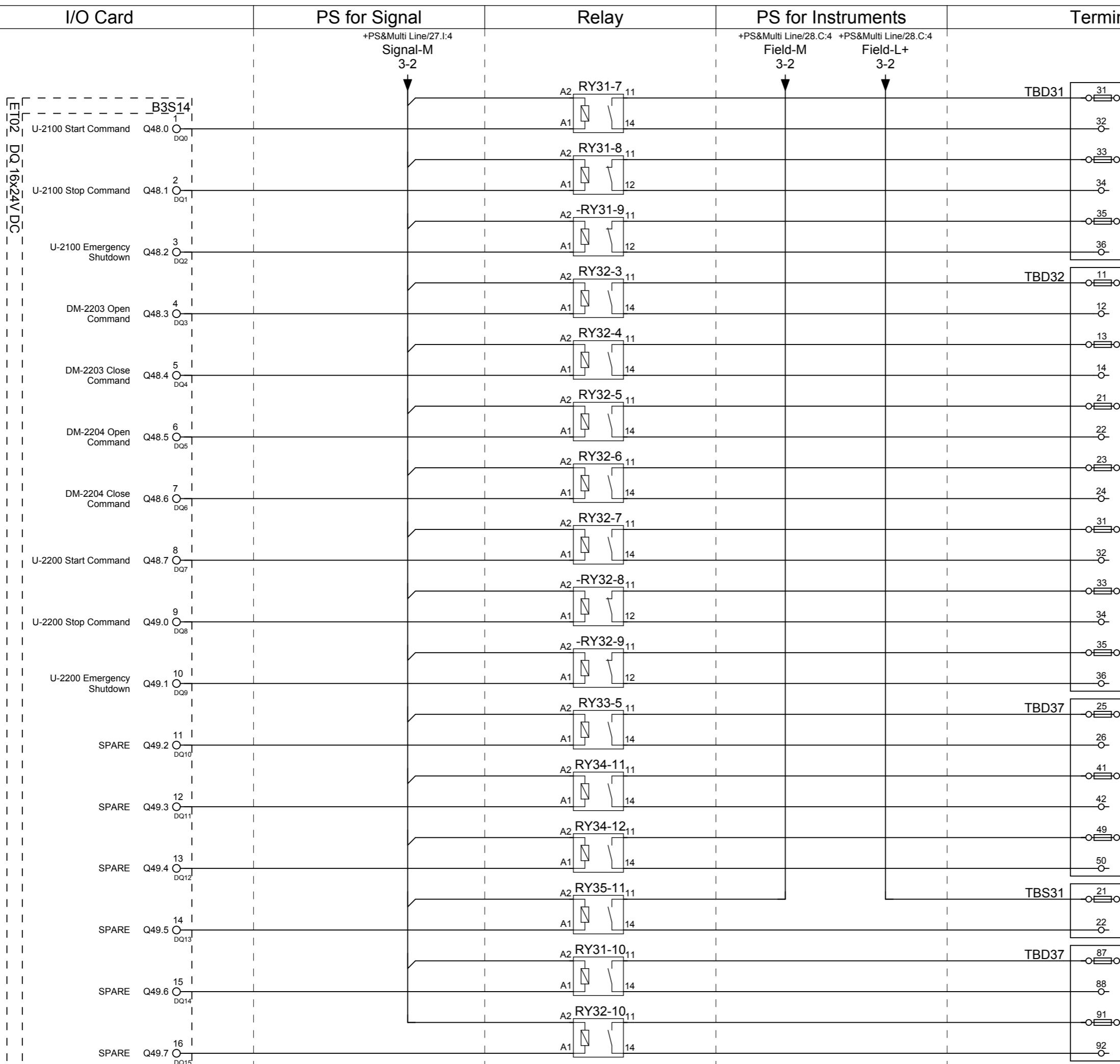
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3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022	
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022	
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022	
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022	
REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DD/MM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-02								
B3S13								
SCALE	1/1	DWG. NO.		SCADA-08-003				

99  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY  
 PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
 OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

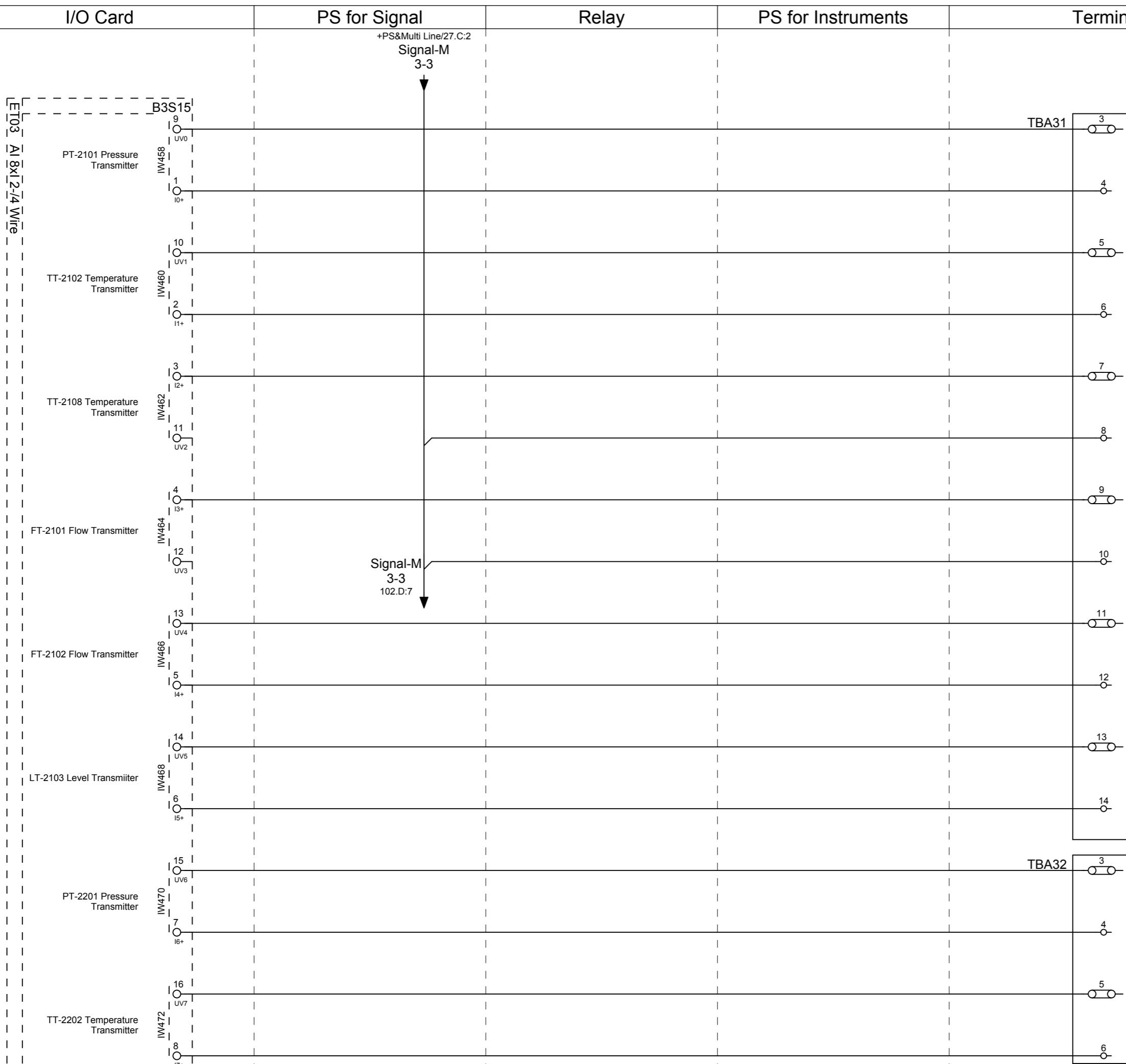
Internal Wiring for PLC-MR-02  
 B3S14

SCALE 1/1 DWG. NO. SCADA-08-003

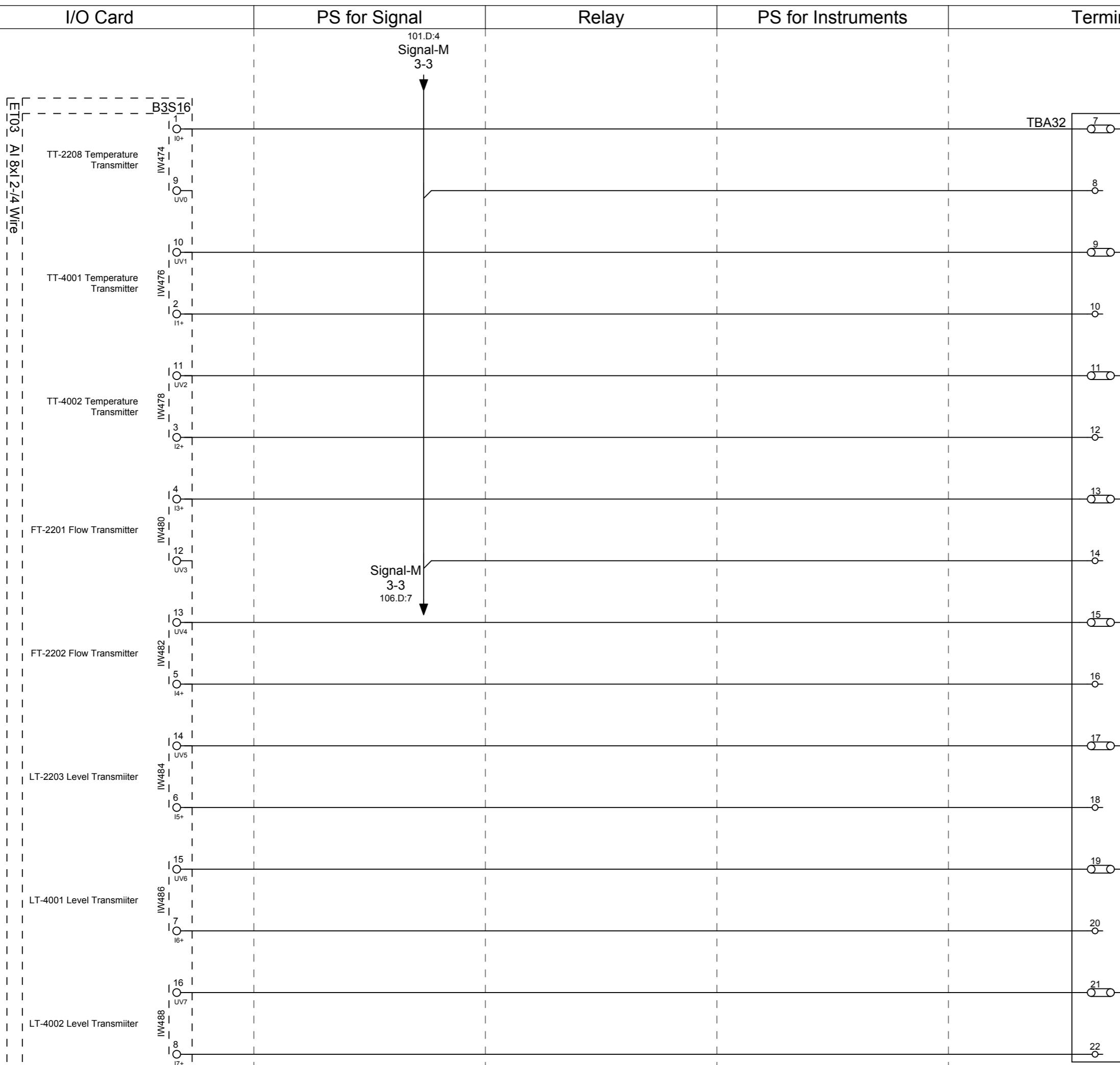
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K File Name: SCADA-08-003

## PLC-MR-02

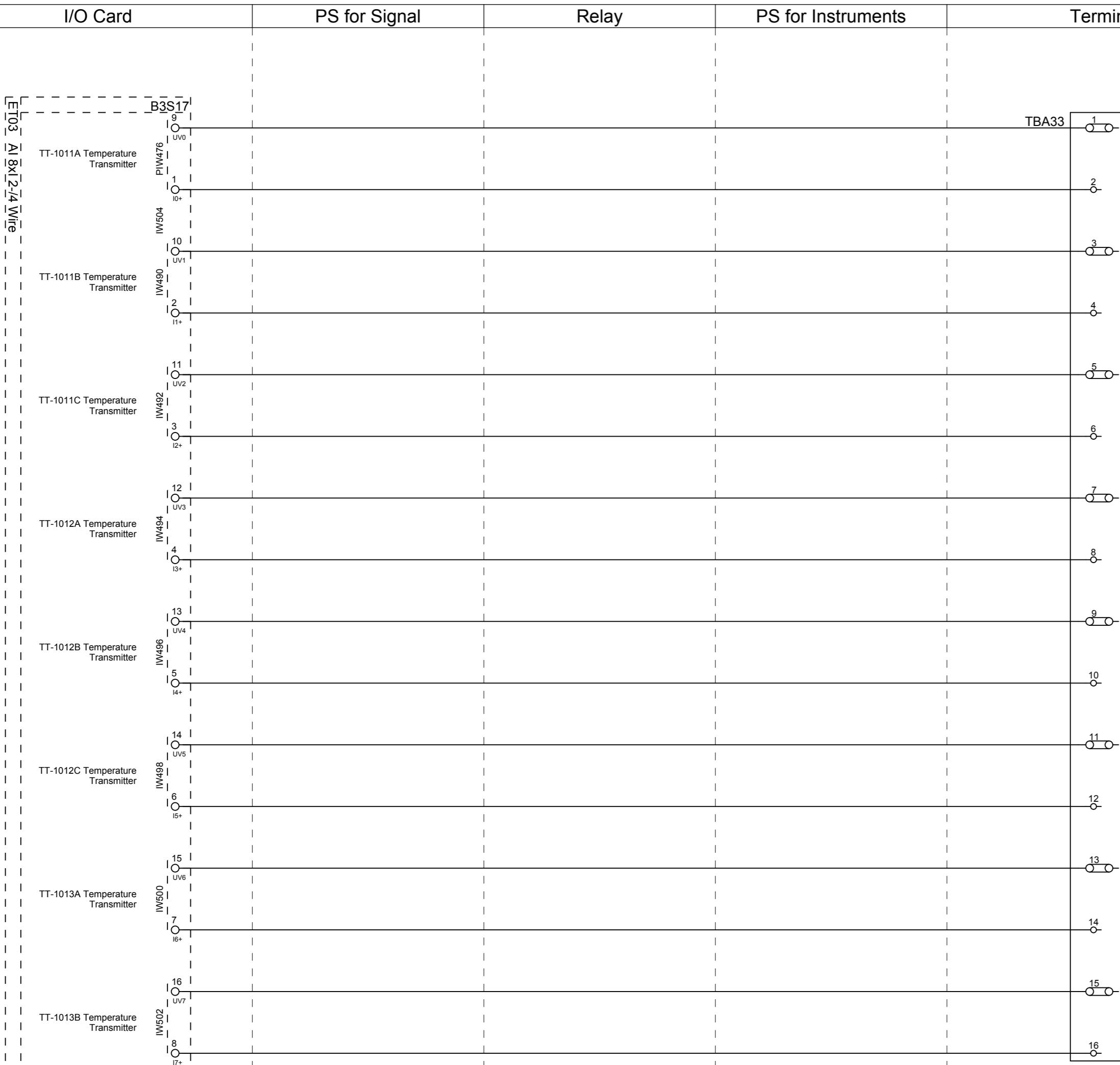


## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DD/MM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province								
ABBR. FOR ISSUE: C = CUSTOMER L = LICENSOR F = FIELD V = VENDOR								
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED ISSUE MARK A TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-02 B3S16								
SCALE	1/1	DWG. NO.		SCADA-08-003				

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DOMM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City								
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-02								
B3S17								
SCALE	1/1	DWG. NO. SCADA-08-003						
		Scale Plot						
K File Name: SCADA-08-003								

## PLC-MR-02

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
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4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

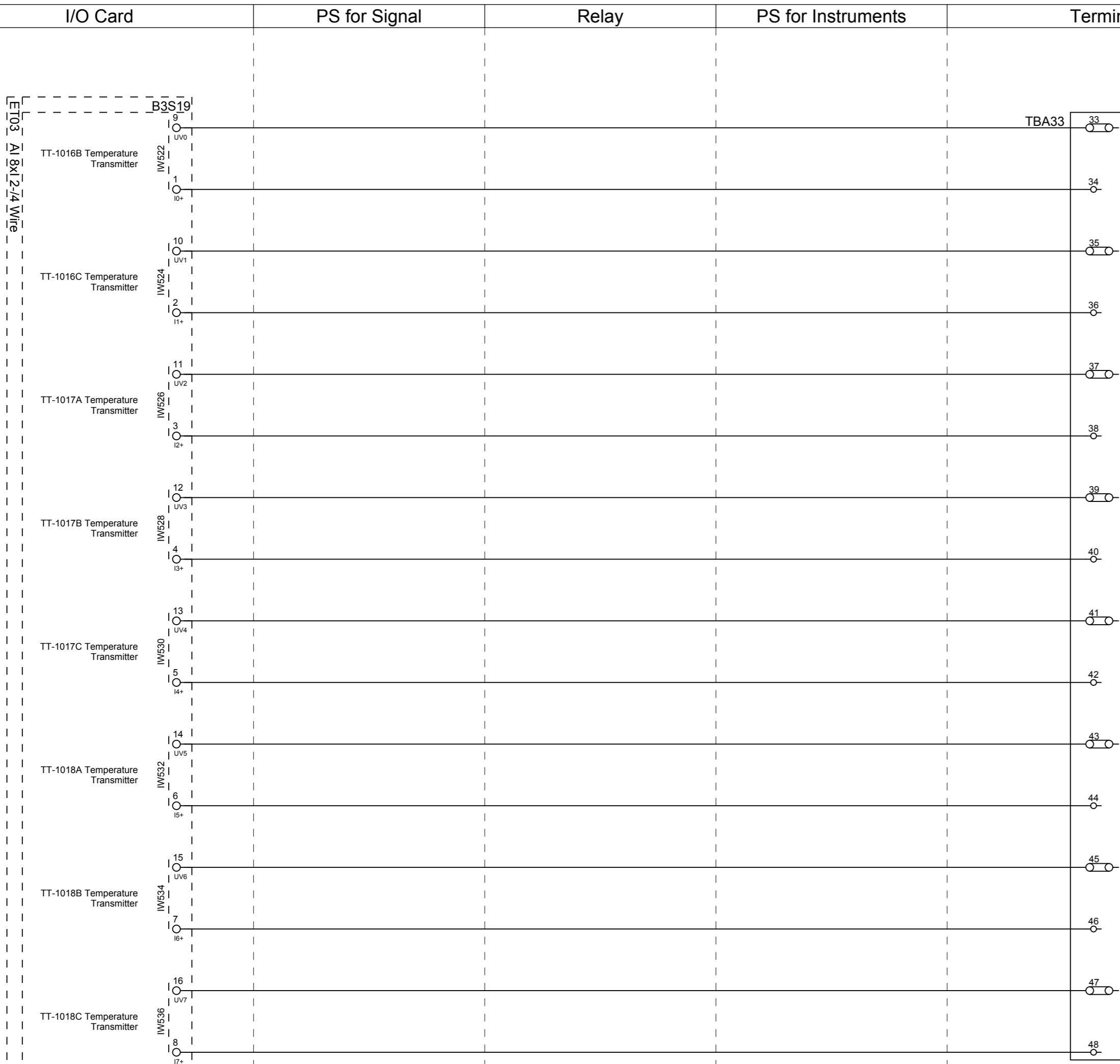
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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.Internal Wiring for PLC-MR-02  
B3S18

SCALE 1/1 DWG. NO. SCADA-08-003

104  
182

Scale Plot K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-02  
B3S19  
105  
182  
SCALE 1/1 DWG. NO. SCADA-08-003

Scale Plot

K File Name: SCADA-08-003

PLC-MR-02

I/O Card	PS for Signal	Relay	PS for Instruments	Termin
		102.D:4 Signal-M 3-3		
TT-1019A Temperature Transmitter	B3S20 W538 1 10 11 12 13 14 15 16 17 18			TBA33 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
TT-1019B Temperature Transmitter	W540 1 2 10 11 12 13 14 15 16 17 18			
TT-1019C Temperature Transmitter	W542 3 11 12 13 14 15 16 17 18			
TT-1020A Temperature Transmitter	W544 4 12 13 14 15 16 17 18			
TT-1020B Temperature Transmitter	W546 5 13 14 15 16 17 18			
TT-1020C Temperature Transmitter	W548 6 14 15 16 17 18			
BC-1183A Weight Transmitter	W550 7 15 16 17 18			
BC-1283A Weight Transmitter	W552 8 16 17 18			

4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	23/11/2022
1	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	17/10/2022
0	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/09/2022

# 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, EMBODIES CONFIDENTIAL  
TECHNICAL INFORMATION OF ANTHONY LAM LTD FOR WHICH A LICENSE AGREEMENT IS IN FORCE.  
HOI NHON, BINH DINH, VIET NAM  
ABBR. FOR ISSUE

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<b>MAIN CONSTRUCTOR:</b>		
	<b>TTCL VIET NAM CORPORATION LIMITED</b>	
TTCL JOB No.	ACCOUNT	CUSTOMER'S ORDER No.
ISSUE MARK <b>A</b>		
<input checked="" type="checkbox"/> L = LICENSOR <input type="checkbox"/> F = FIELD <input type="checkbox"/> V = VENDOR		

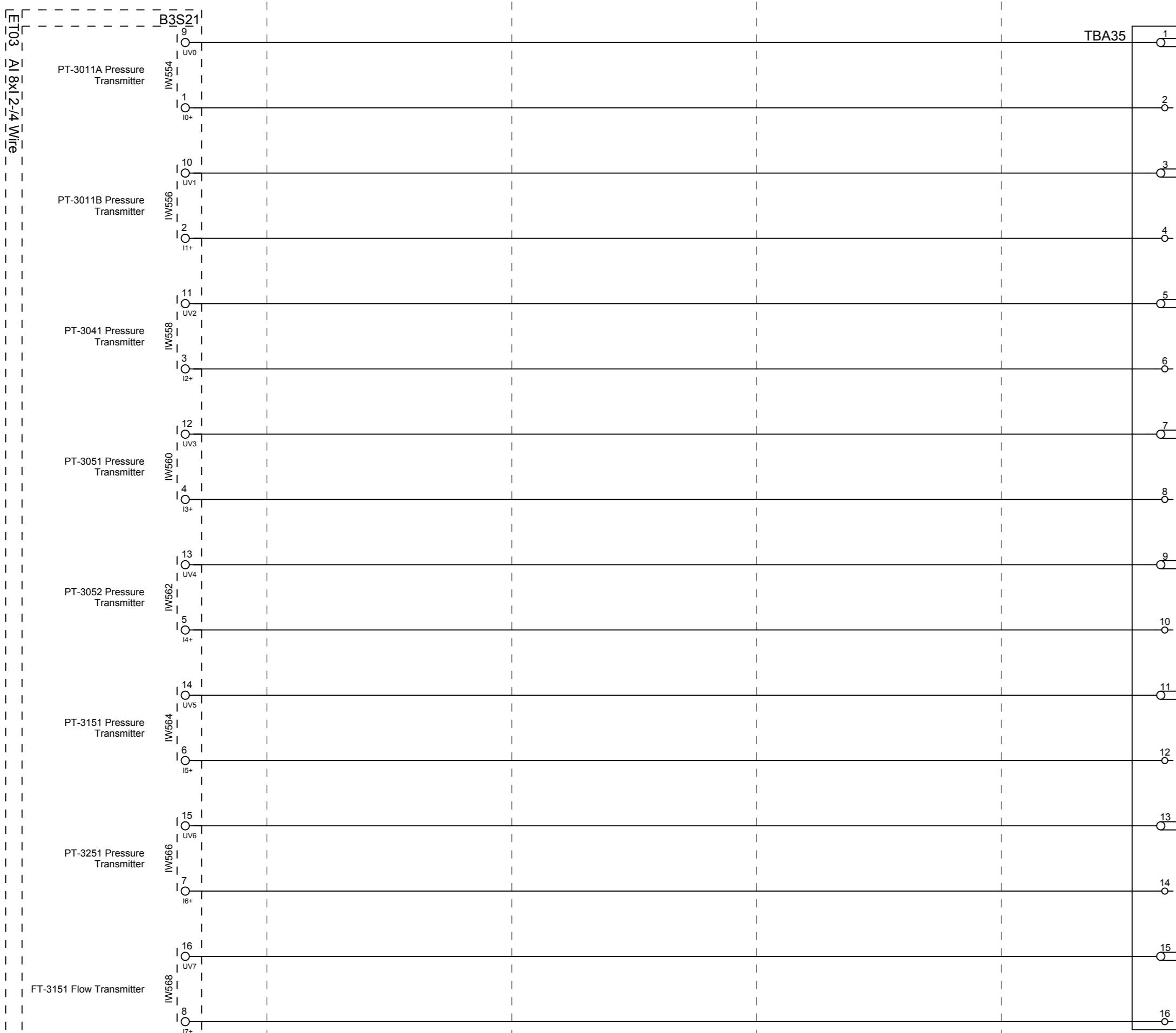
SUB CONSTRUCTOR: EAST SEA TECHNOLOGY ENGINEERING  
ESTEC ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City

Internal Wiring for PLC-MR-02  
ES002

B3320 18

## PLC-MR-02

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
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4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

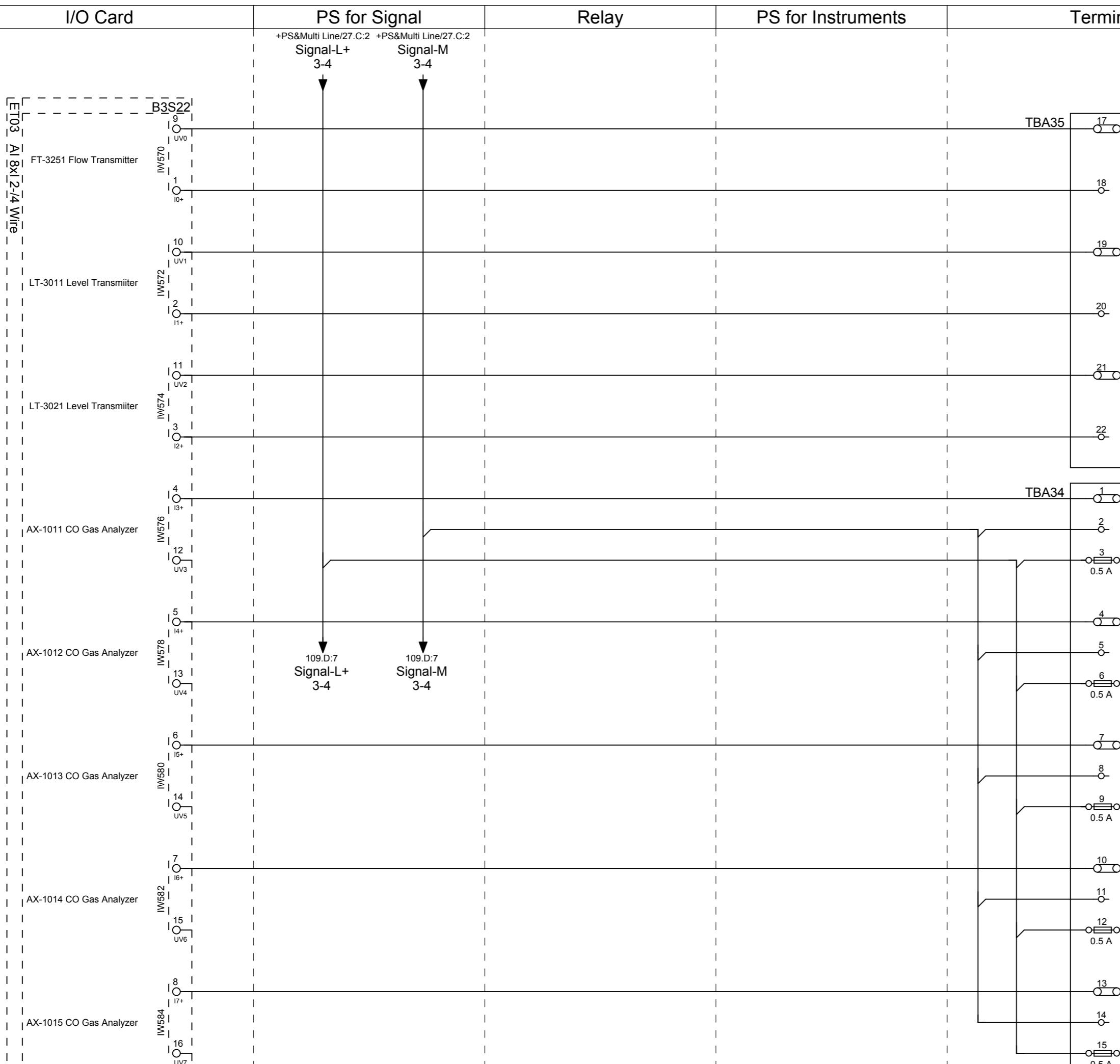
Internal Wiring for PLC-MR-02  
B3S21

SCALE 1/1 DWG. NO. SCADA-08-003

107  
182

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								

OWNER:  
 IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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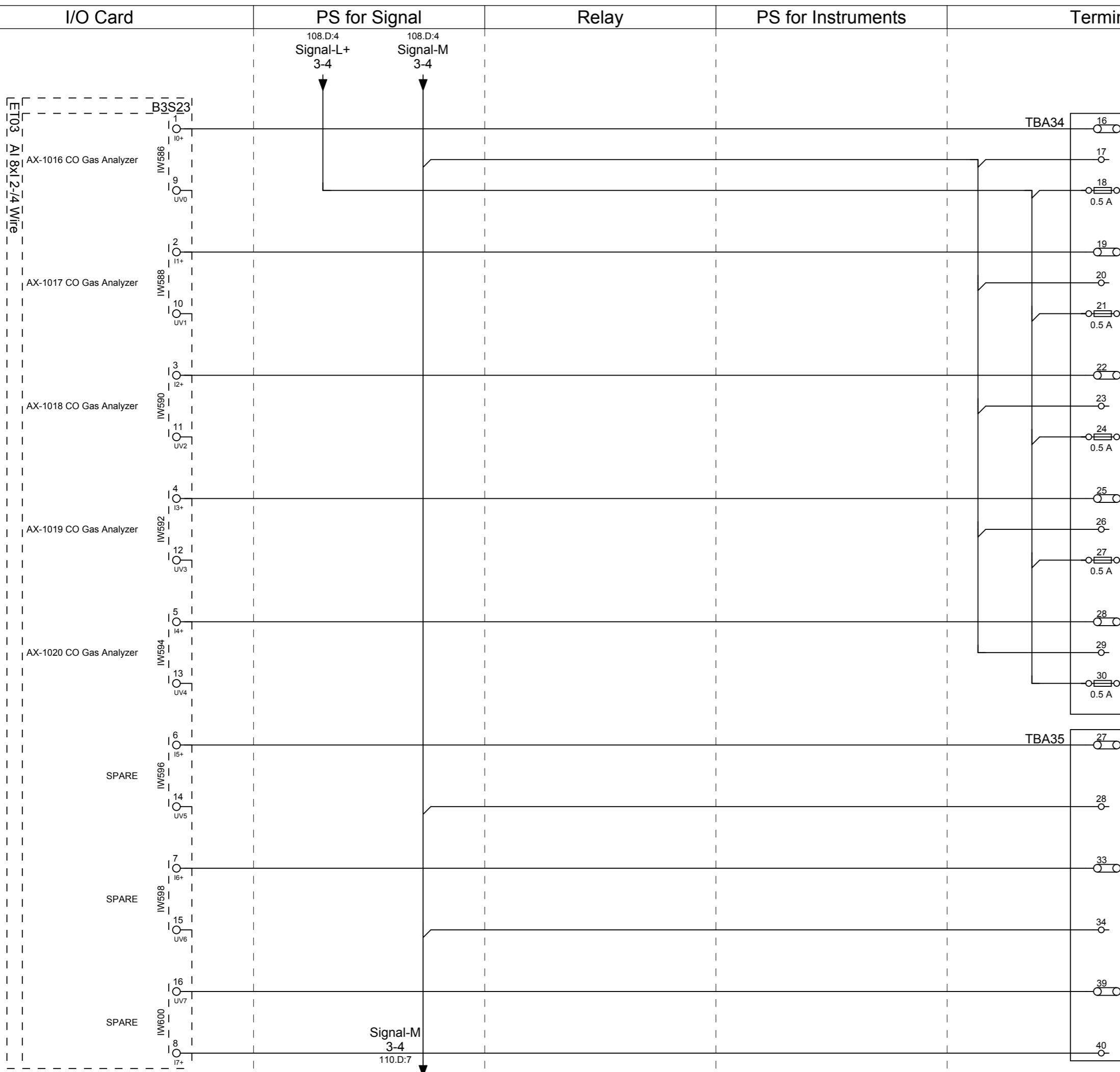
MAIN CONSTRUCTOR:  
 TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR:  
 EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S22  
108 182

SCALE	1/1	DWG. NO.	SCADA-08-003
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## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
DOMM/YY								

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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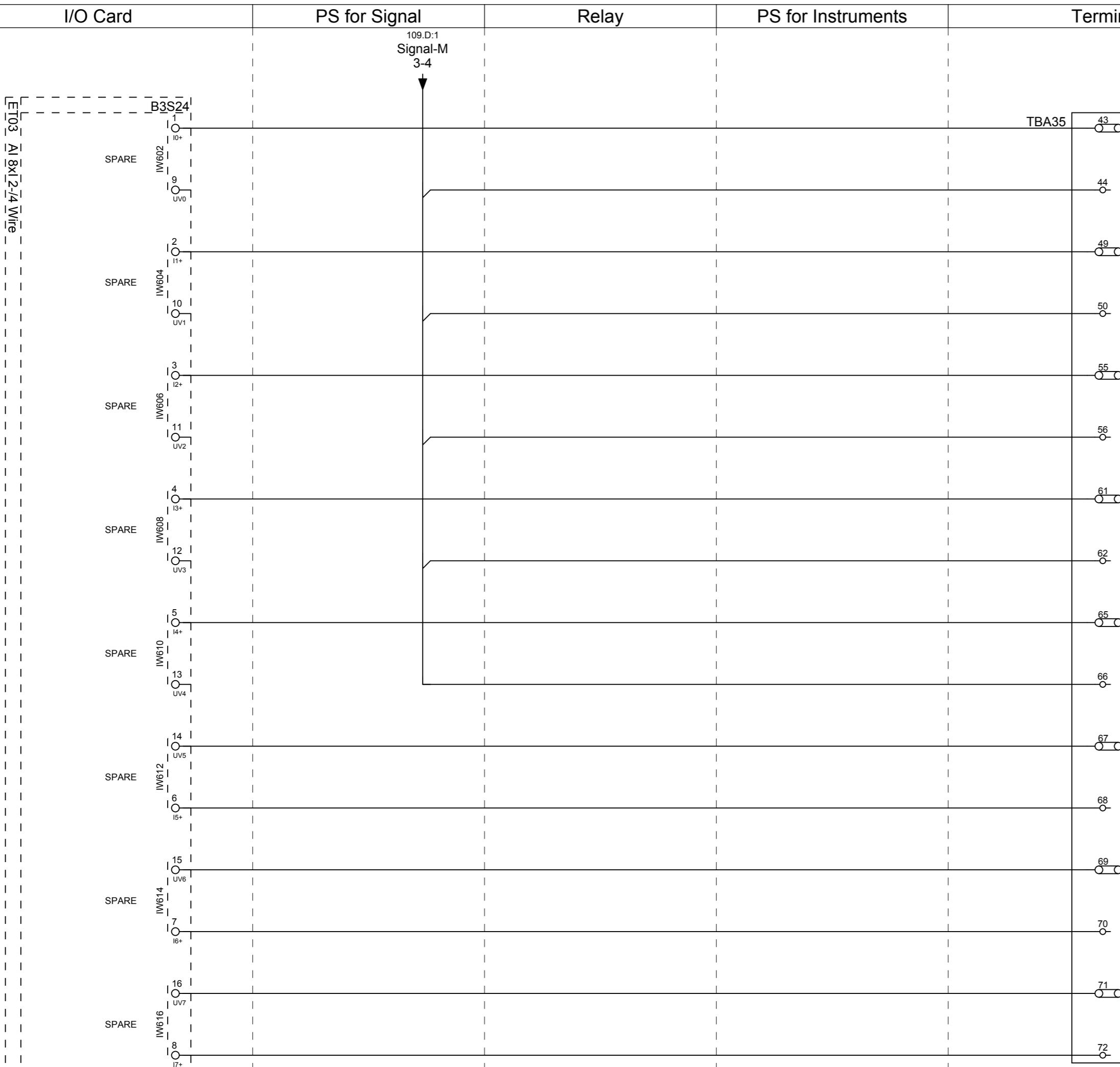
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S23

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

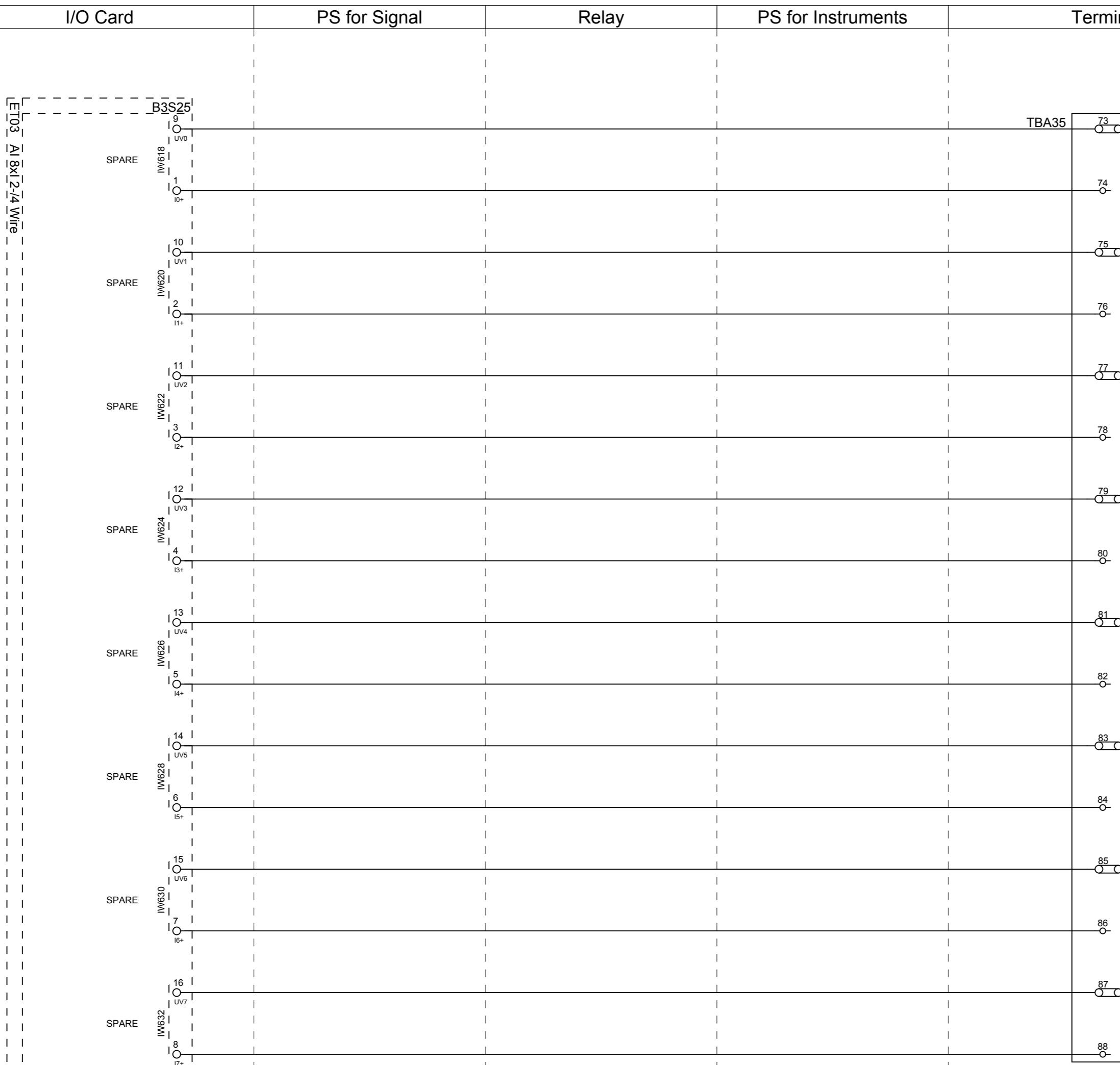
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

ISSUE MARK A  
SCALE 1/1 DWG. NO. SCADA-08-003  
110 182

Internal Wiring for PLC-MR-02  
B3S24

110 182

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

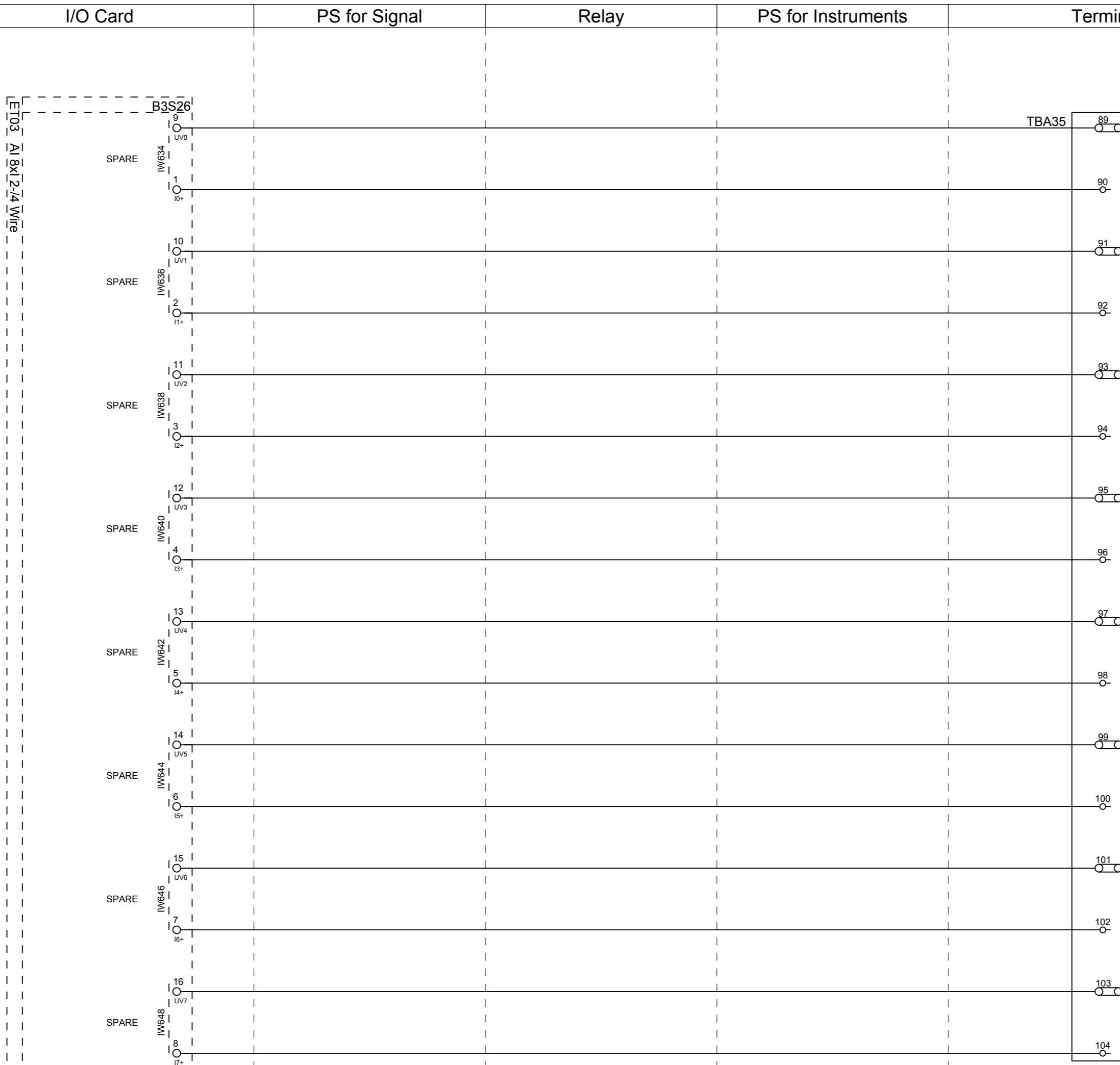
Internal Wiring for PLC-MR-02  
B3S25

SCALE 1/1 DWG. NO. SCADA-08-003

111  
182

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S26

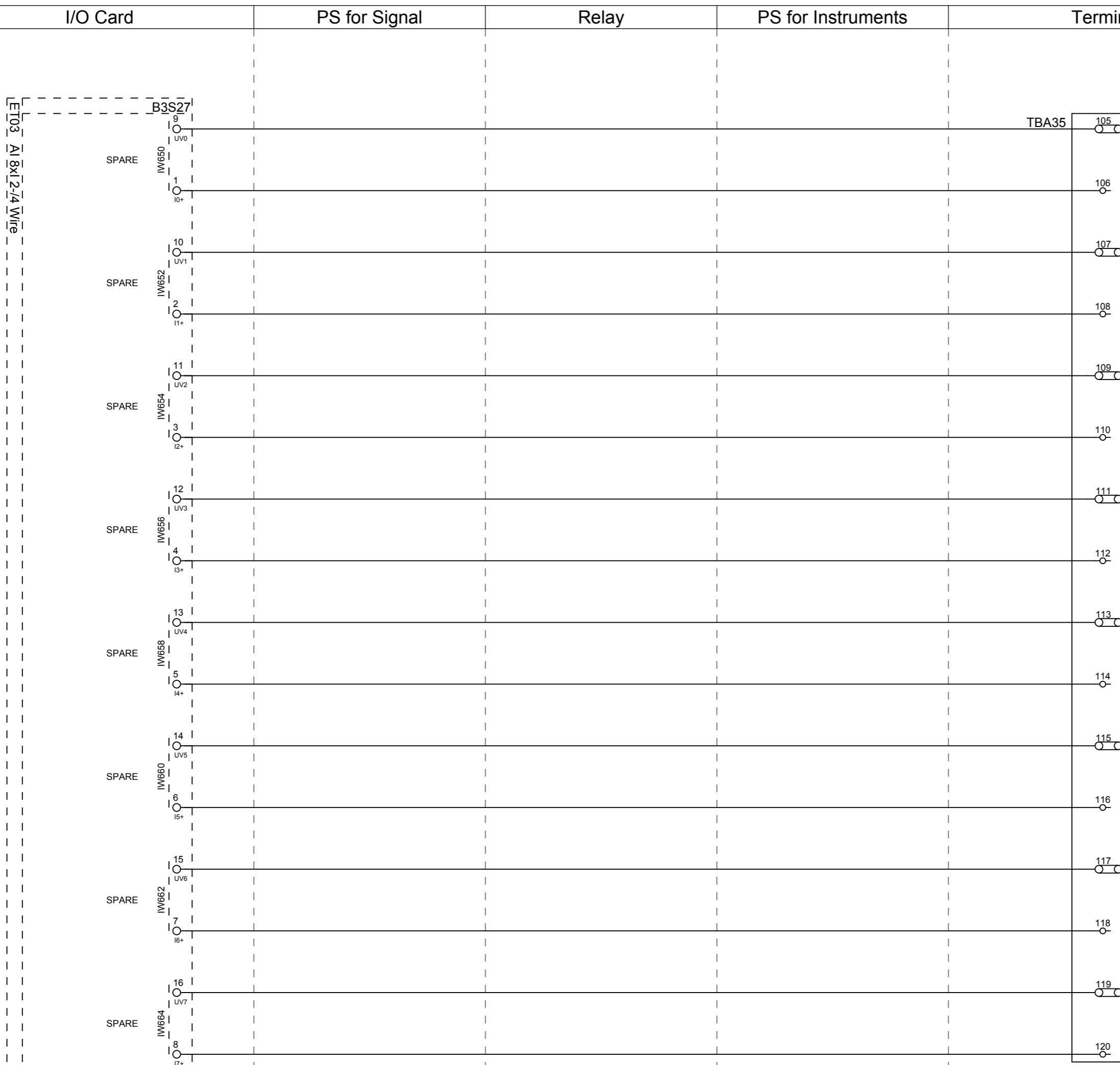
SCALE 1/1 DWG. NO. SCADA-08-003

112  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
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L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

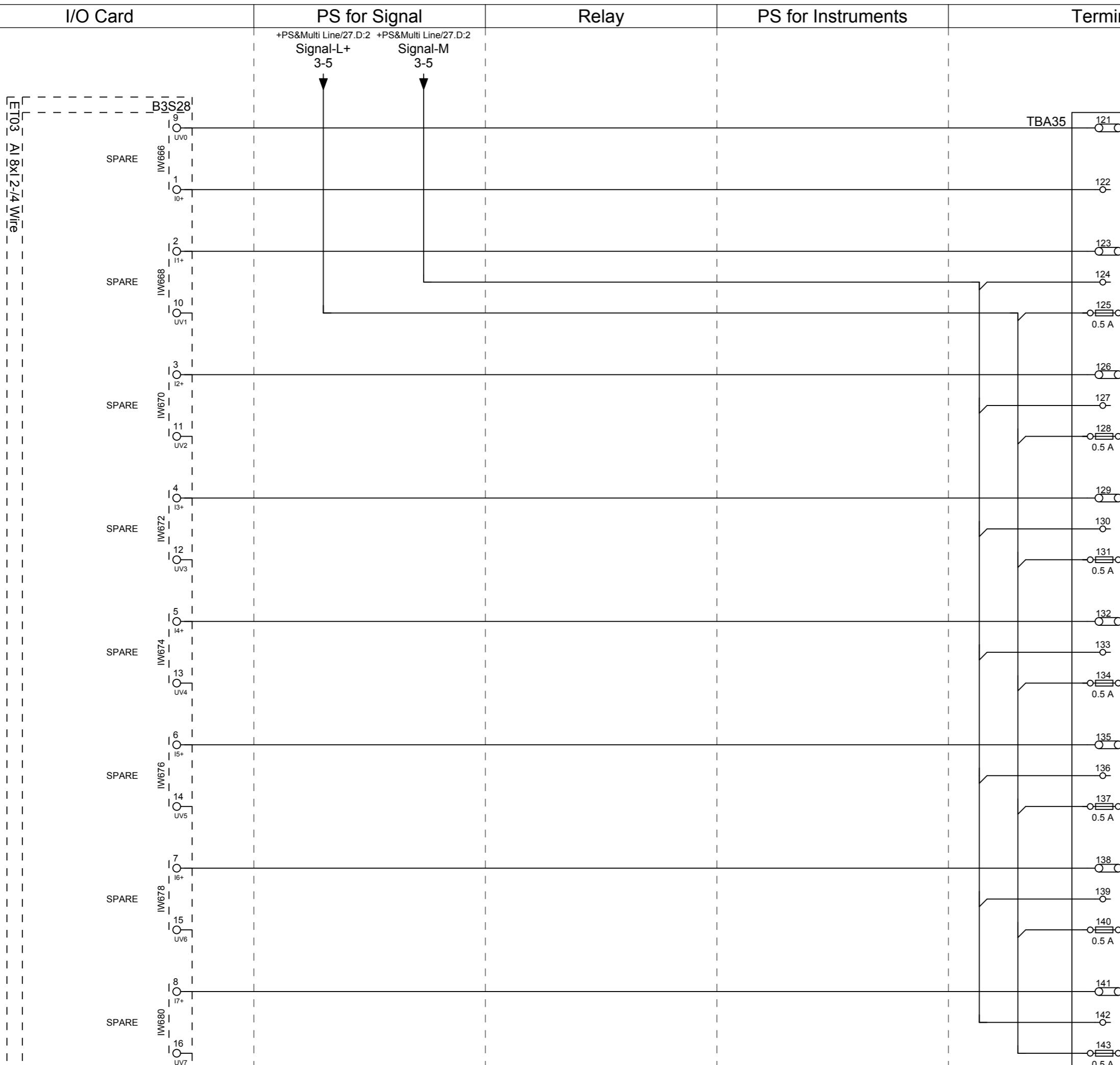
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S27

SCALE 1/1 DWG. NO. SCADA-08-003



## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S28

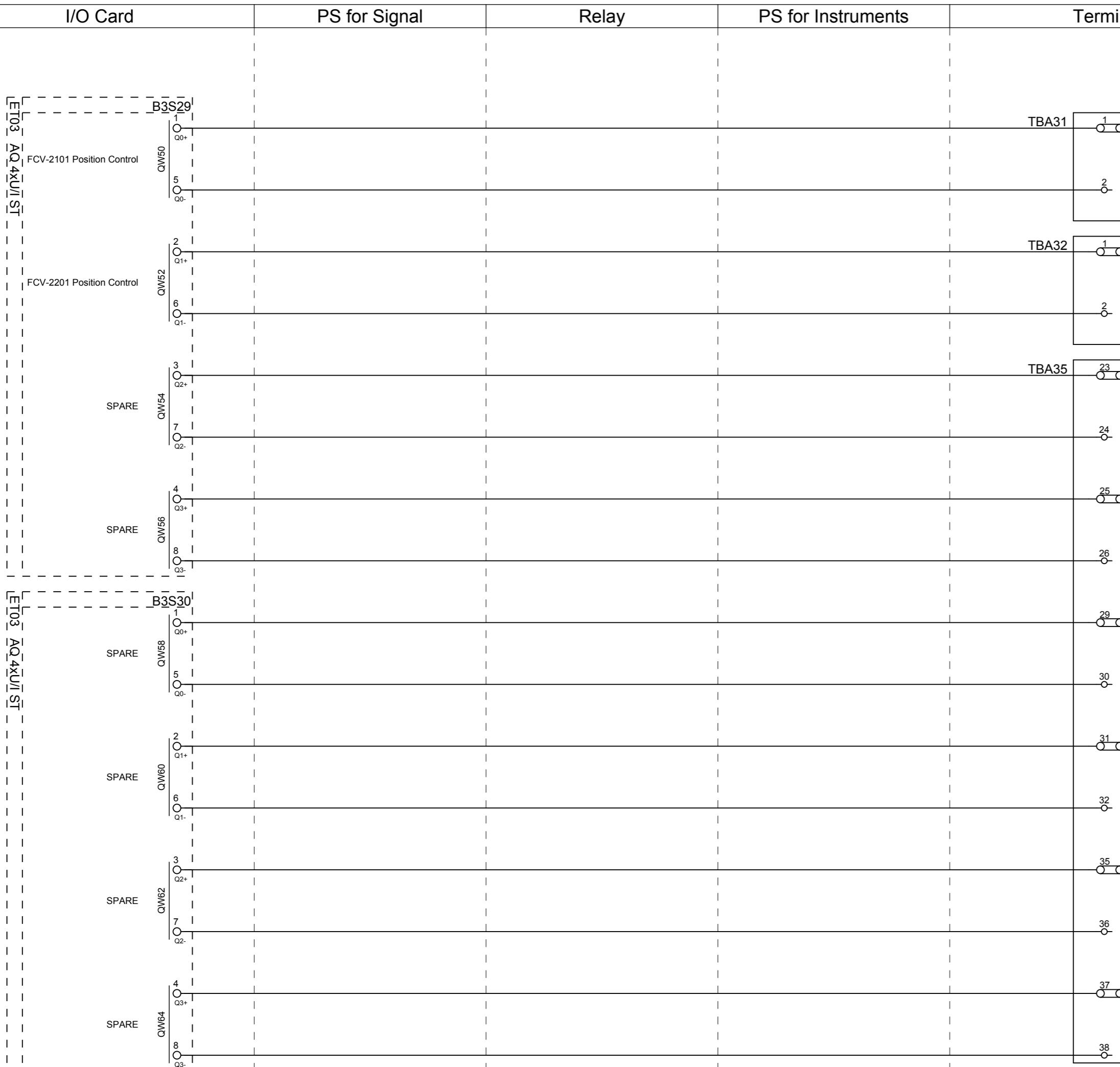
SCALE 1/1 DWG. NO. SCADA-08-003

114  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.	C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

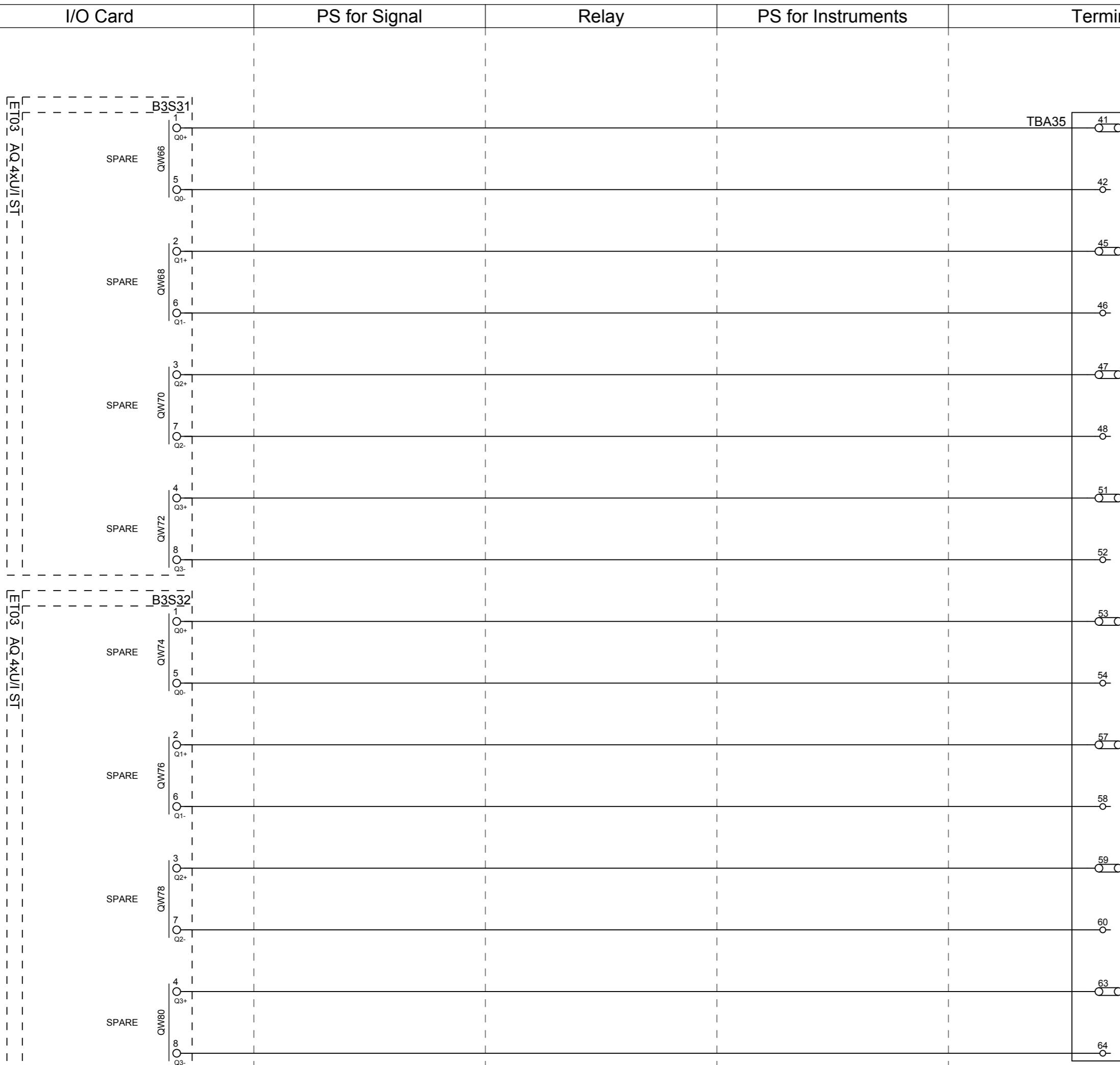
ABBR. FOR ISSUE  
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L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S29,B3S30  
115  
182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-02



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
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F = FIELD  
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-02  
B3S31, B3S32  
SCALE 1/1 DWG. NO. SCADA-08-003  
116 182

K File Name: SCADA-08-003

PLC-MR-03

I/O Card	PS for Signal	Relay	PS for Instruments	Termin
	+PS&Multi Line/30.I:4 Signal-L+	4-1		
B4S1				TBD42
DC-1021 Running	I682.0 O DI0			1
DC-1021 Local/Remote	I682.1 O DI1			2
DC-1021 Fault	I682.2 O DI2			3
BC-1021A Running	I682.3 O DI3			4
BC-1021A Local/Remote	I682.4 O DI4			5
BC-1021A Fault	I682.5 O DI5			6
BC-1021A Sway Switch	I682.6 O DI6			7
BC-1021A Pull Cord	I682.7 O DI7			8
BC-1021B Running	I683.0 O DI8			9
BC-1021B Local/Remote	I683.1 O DI9			10
BC-1021B Fault	I683.2 O DI10			11
BC-1021B Sway Switch	I683.3 O DI11			12
BC-1021B Pull Cord	I683.4 O DI12			13
BC-1021C Running	I683.5 O DI13			14
BC-1021C Local/Remote	I683.6 O DI14			15
BC-1021C Fault	I683.7 O DI15	Signal-L+ 4-1	118.D:7	16

4	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	09/05/2023
3	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L F V	15/12/2022
2	A	ISSUED FOR APPROVAL						C L	

		T.L.M	H.L	P.T.V			C L	ZS/11/2022	
1	A	ISSUED FOR APPROVAL			T.L.M	H.L	P.T.V	F V	17/10/2022
0	A	ISSUED FOR APPROVAL			T.L.M	H.L	P.T.V	G E	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	A/E	CHIEF	MGR.	APPR.	ISSUE	DATE DD/MM/YY

# 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

Hoai Nhon District, Binh Dinh Province	
<p>THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, EMBODIES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.</p>	
MAIN CONSTRUCTOR:	TTCL VIET NAM CORPORATION LIMITED
TVC JOB No.	ACCOUNT
	CUSTOMER'S ORDER No.
	ABBR. FOR ISSUE C = CUSTOMER L = LICENSOR F = FIELD V = VENDOR
	ISSUE MARK <b>A</b>

SUB CONSTRUCTOR:  **ESTEC** EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO.,LTD  
Head office: 611 Le Duc Tho Street, Ward 7, Go Vap District, HCM City

Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S1

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

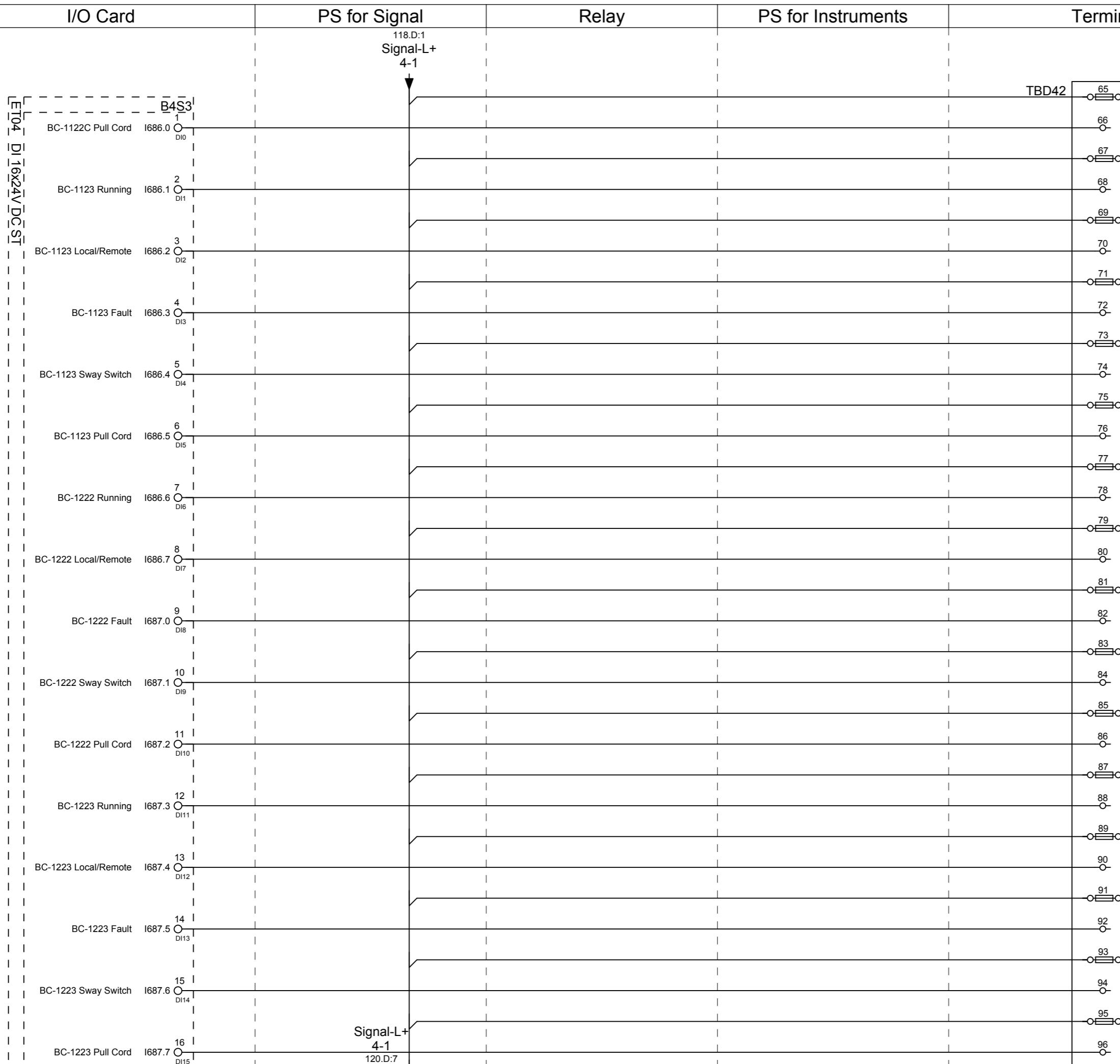
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S2  
118 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOM/MY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S3

SCALE 1/1 DWG. NO. SCADA-08-003

119  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: **1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT**  
 OWNER: **IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY**  
 Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: **TTCL VIET NAM CORPORATION LIMITED** ISSUE MARK **A**  
**TVC** TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.

SUB CONSTRUCTOR: **ESTEC** EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

**Internal Wiring for PLC-MR-03**  
**B4S4**

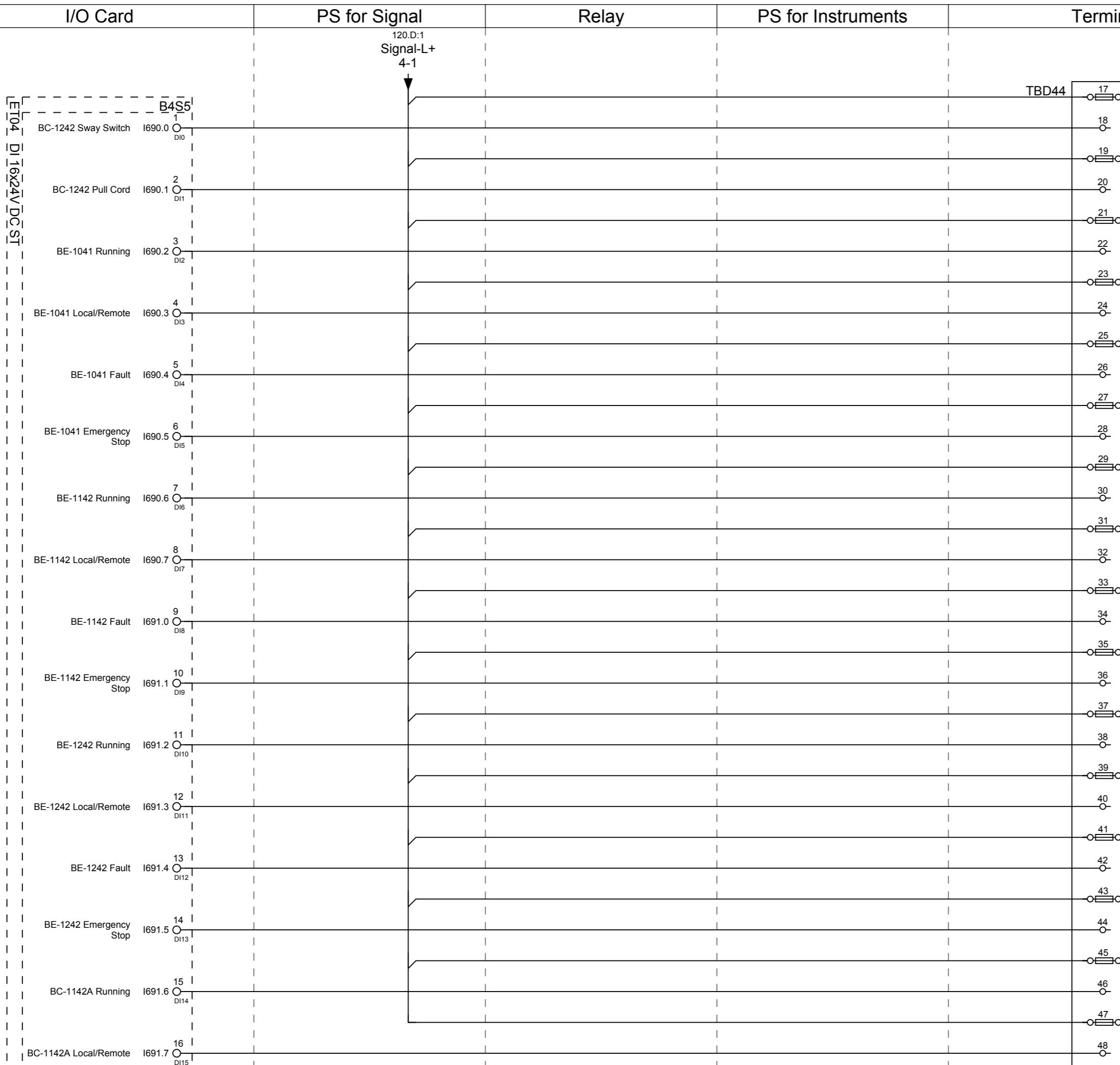
SCALE 1/1 DWG. NO. SCADA-08-003

120  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

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DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S5

SCALE 1/1 DWG. NO. SCADA-08-003

121  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
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REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

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Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
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Internal Wiring for PLC-MR-03  
B4S6

SCALE 1/1 DWG. NO. SCADA-08-003

122  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOM/MY

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OWNER: IDEMITSU GREEN ENERGY VIET NAM  
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Internal Wiring for PLC-MR-03  
B4S7

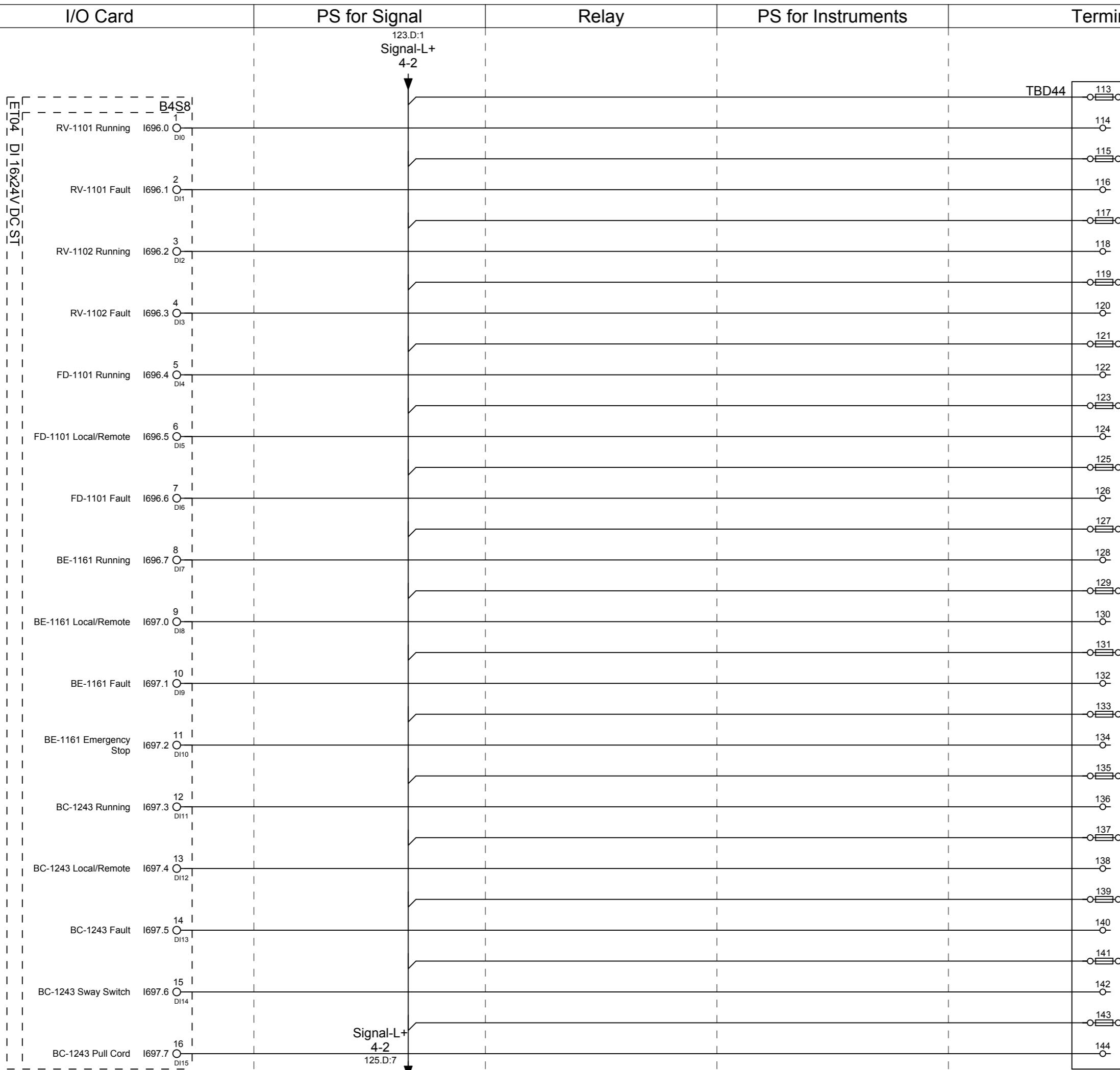
SCALE 1/1 DWG. NO. SCADA-08-003

123  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
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REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOM/MY

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Internal Wiring for PLC-MR-03  
B4S8

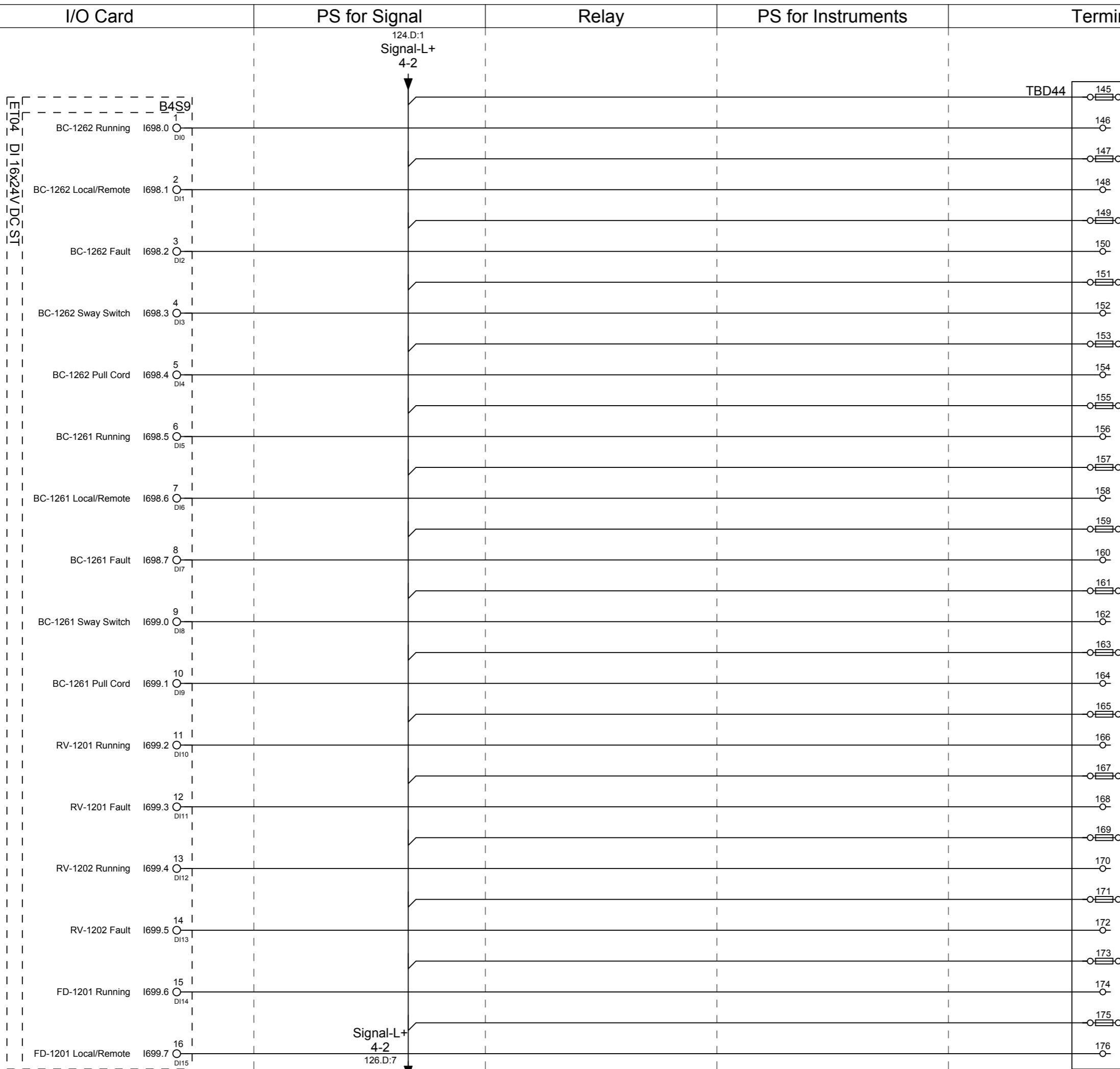
SCALE 1/1 DWG. NO. SCADA-08-003

124  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
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Internal Wiring for PLC-MR-03  
B4S9

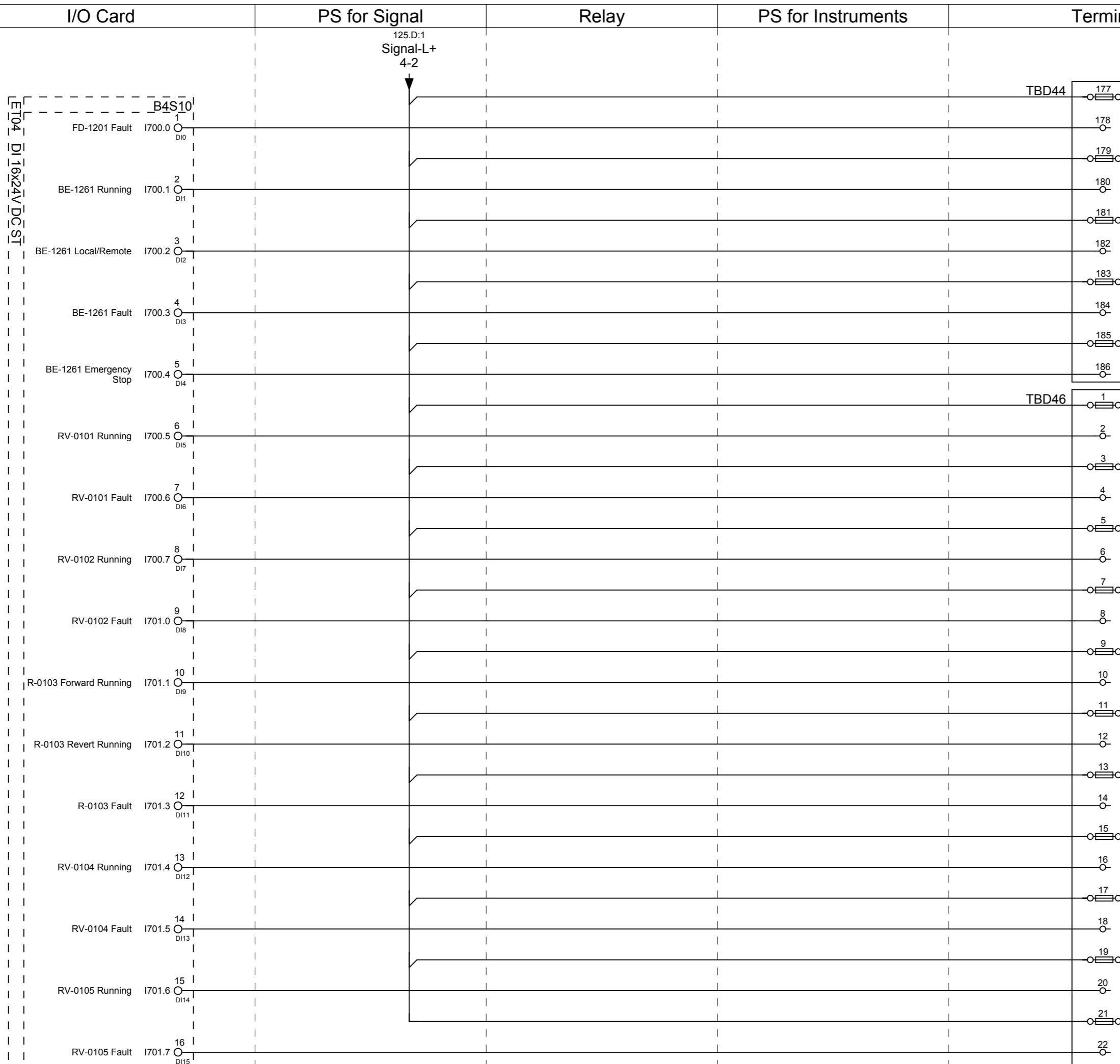
SCALE 1/1 DWG. NO. SCADA-08-003

125  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
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REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S10

SCALE 1/1 DWG. NO. SCADA-08-003

126  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
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0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
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PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT							
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OWNER:	IDEMITSU	IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY					
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Hoai Nhon District, Binh Dinh Province							
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MAIN CONSTRUCTOR:	TTCL VIET NAM CORPORATION LIMITED	ISSUE MARK	A
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TVC	TVC JOB No.	ACCOUNT	CUSTOMER'S ORDER No.
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SUB CONSTRUCTOR:			
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ESTEC	EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD		
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Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City			
--	--	--	--

Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.			
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Internal Wiring for PLC-MR-03			
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B4S11			
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127	182
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SCALE	1/1	DWG. NO.	SCADA-08-003
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Scale Plot			
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K File Name: SCADA-08-003			
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## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

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DOMM/YY

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PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S12  
128 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
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0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

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Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S13  
129 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY  
PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S14

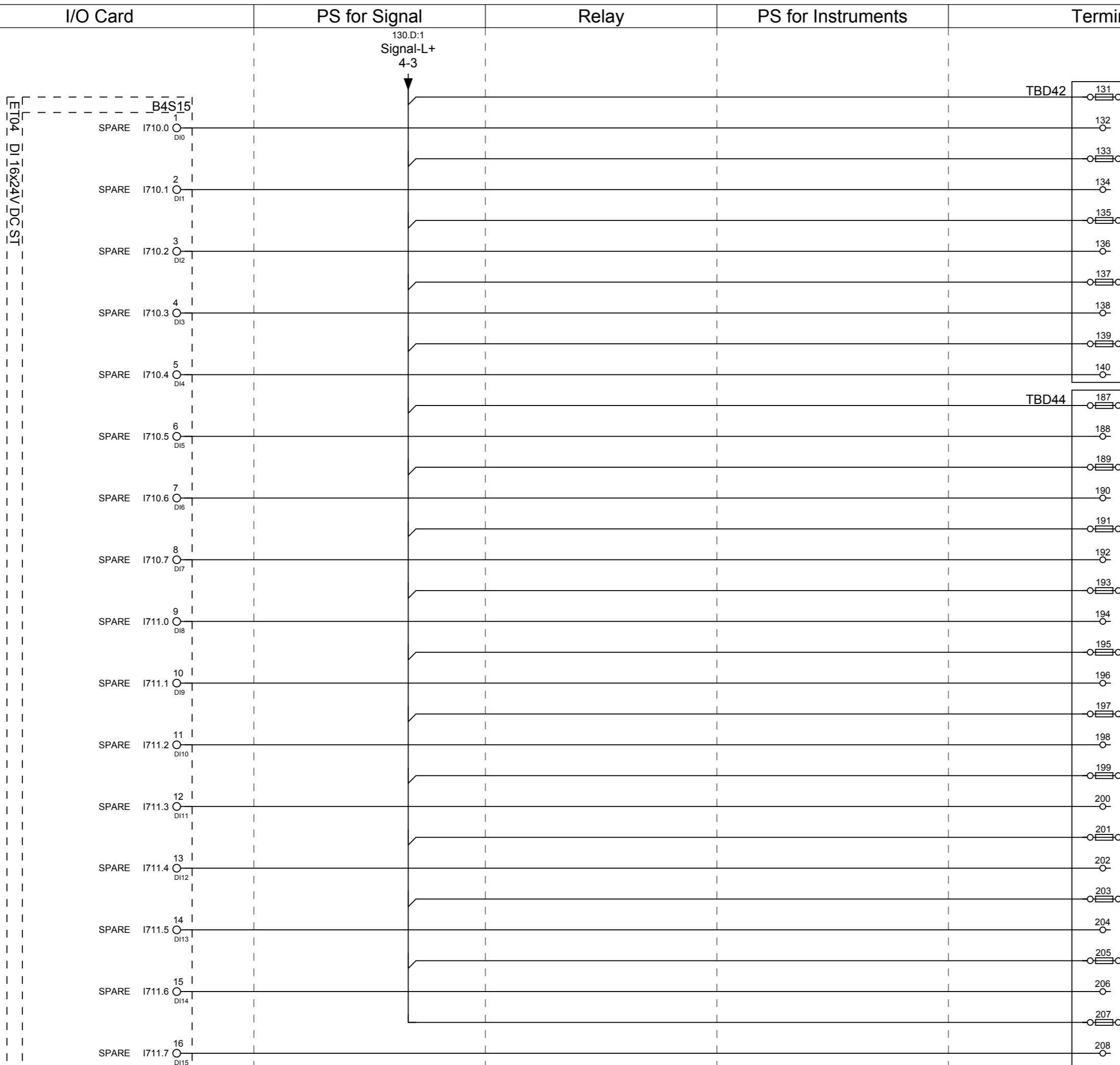
SCALE 1/1 DWG. NO. SCADA-08-003

130 182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

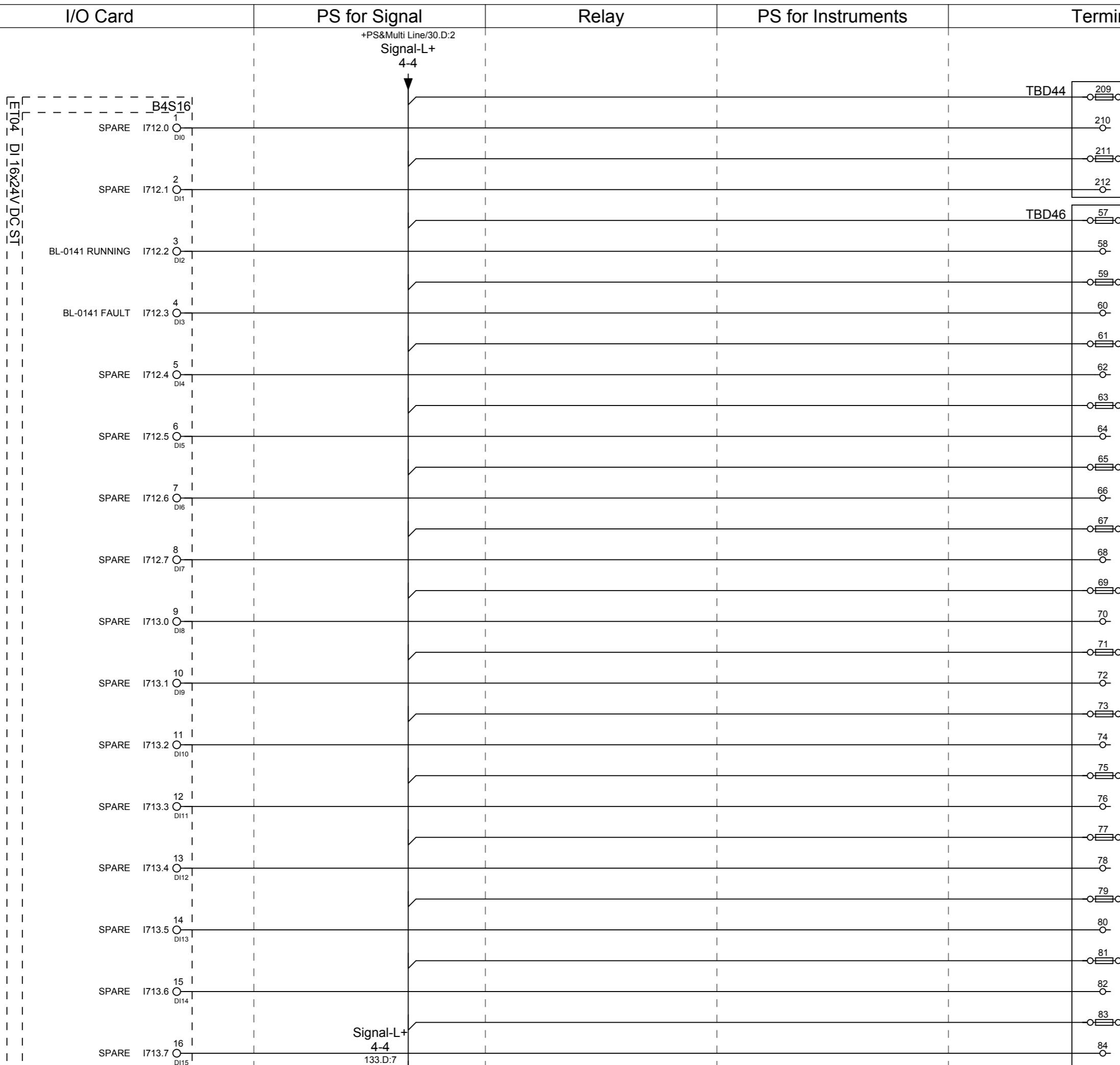
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S15

SCALE 1/1 DWG. NO. SCADA-08-003

131  
182

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S16

SCALE 1/1 DWG. NO. SCADA-08-003

132  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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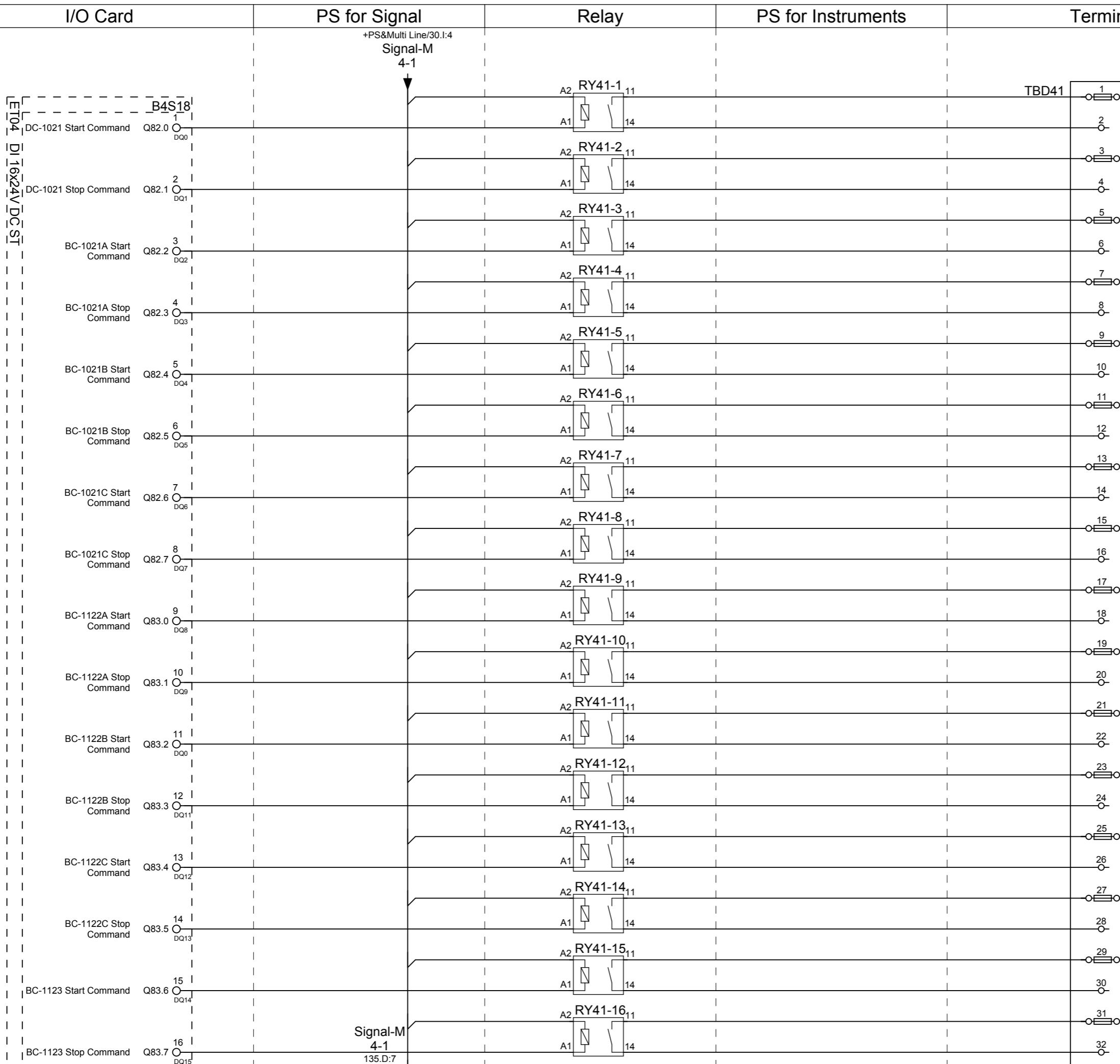
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S17

SCALE 1/1 DWG. NO. SCADA-08-003

133  
182

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceABB.R. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDORMAIN CONSTRUCTOR:  
TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR:  
ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang CityInternal Wiring for PLC-MR-03  
B4S18

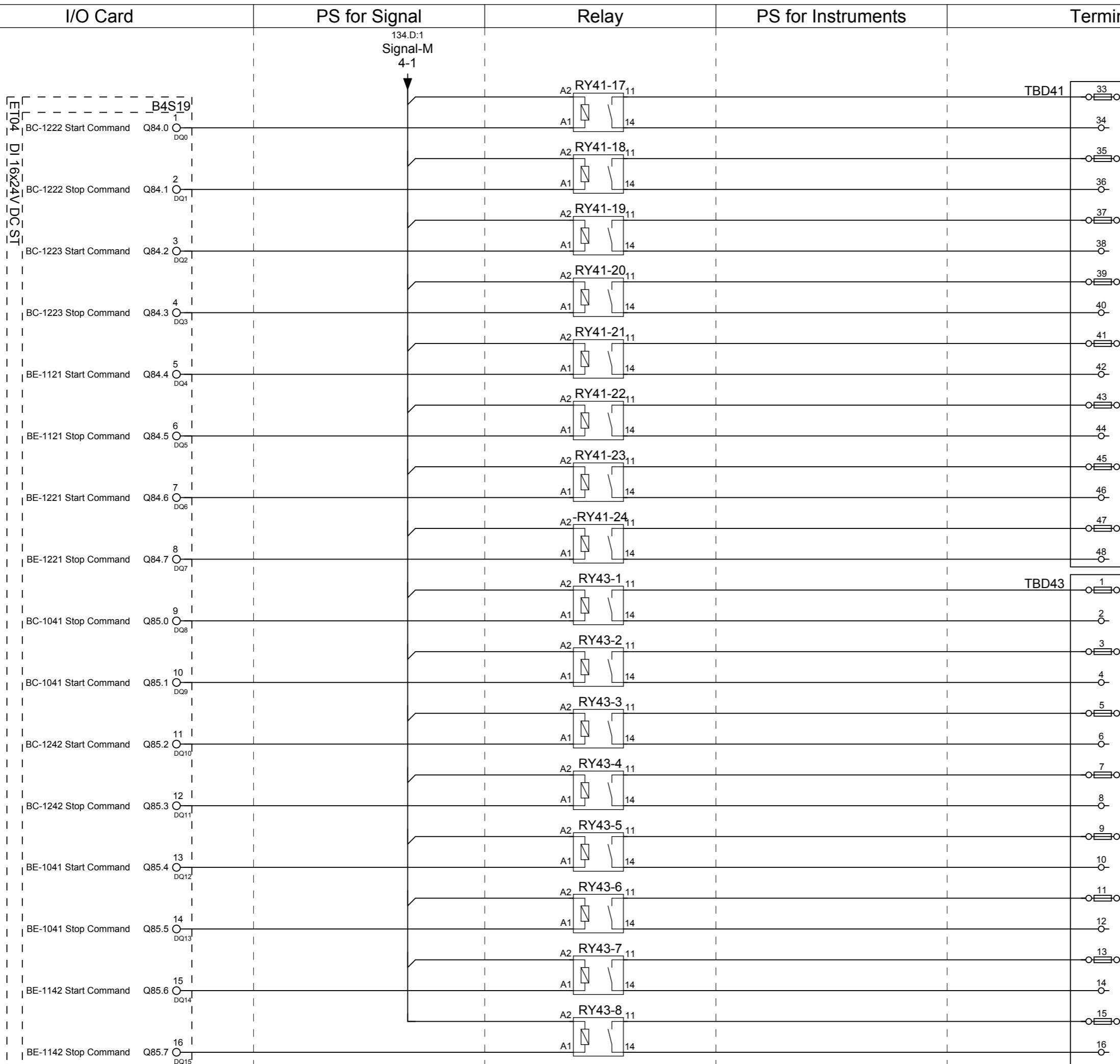
SCALE 1/1 DWG. NO. SCADA-08-003

134  
182

Scale Plot

K File Name: SCADA-08-003

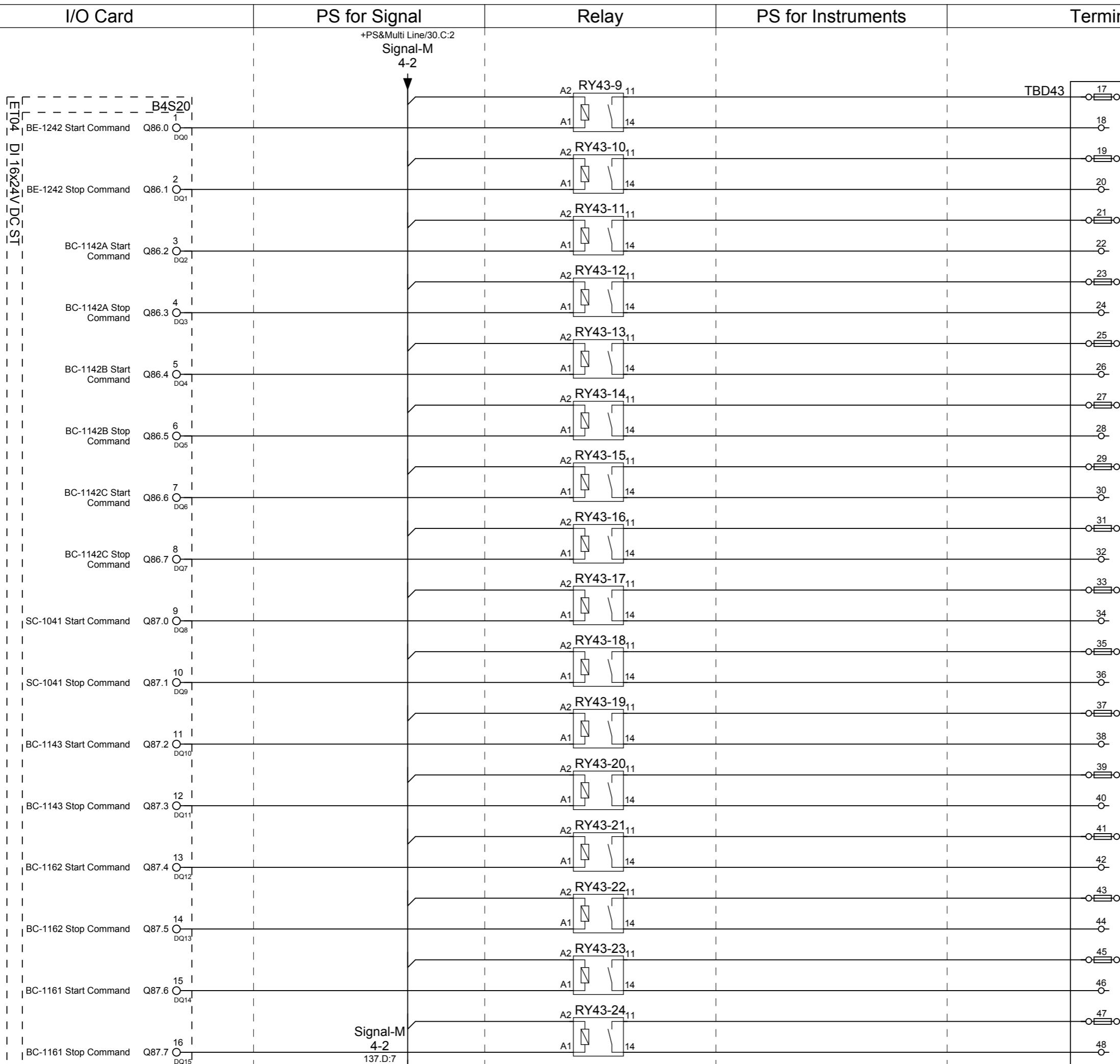
## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DD/MM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-03								
B4S19								
SCALE	1/1	DWG. NO.		SCADA-08-003				

135  
182

## PLC-MR-03



4/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 09/05/2023  
 3/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 15/12/2022  
 2/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 23/11/2022  
 1/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 17/10/2022  
 0/A ISSUED FOR APPROVAL TLM H.L P.T.V C L F V 15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S20

SCALE 1/1 DWG. NO. SCADA-08-003

136 182

K File Name: SCADA-08-003

## PLC-MR-03

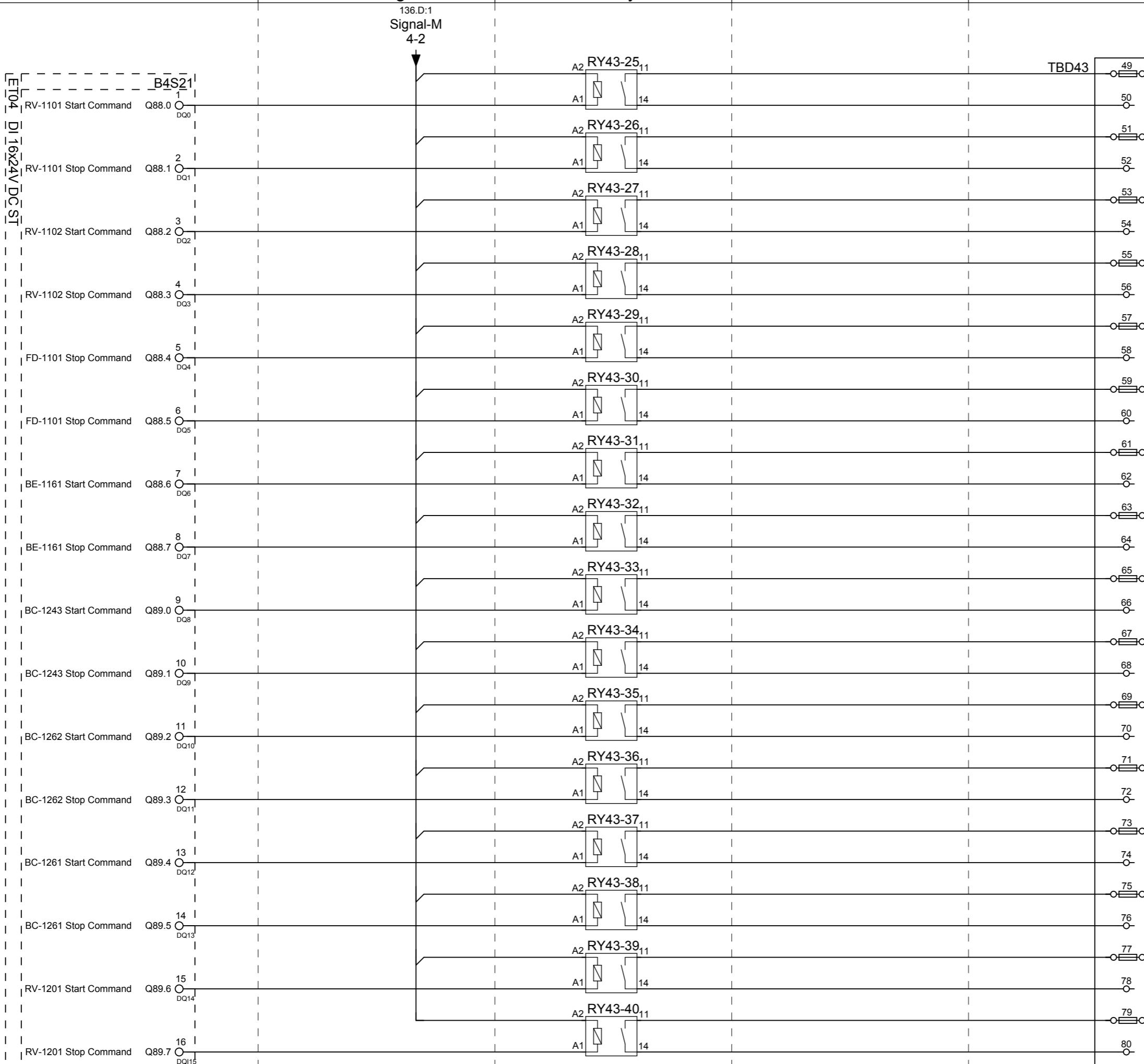
Relay

PS for Instruments

Terminal

I/O Card

PS for Signal



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

ISSUE MARK A

ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING

ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City

Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

137 182

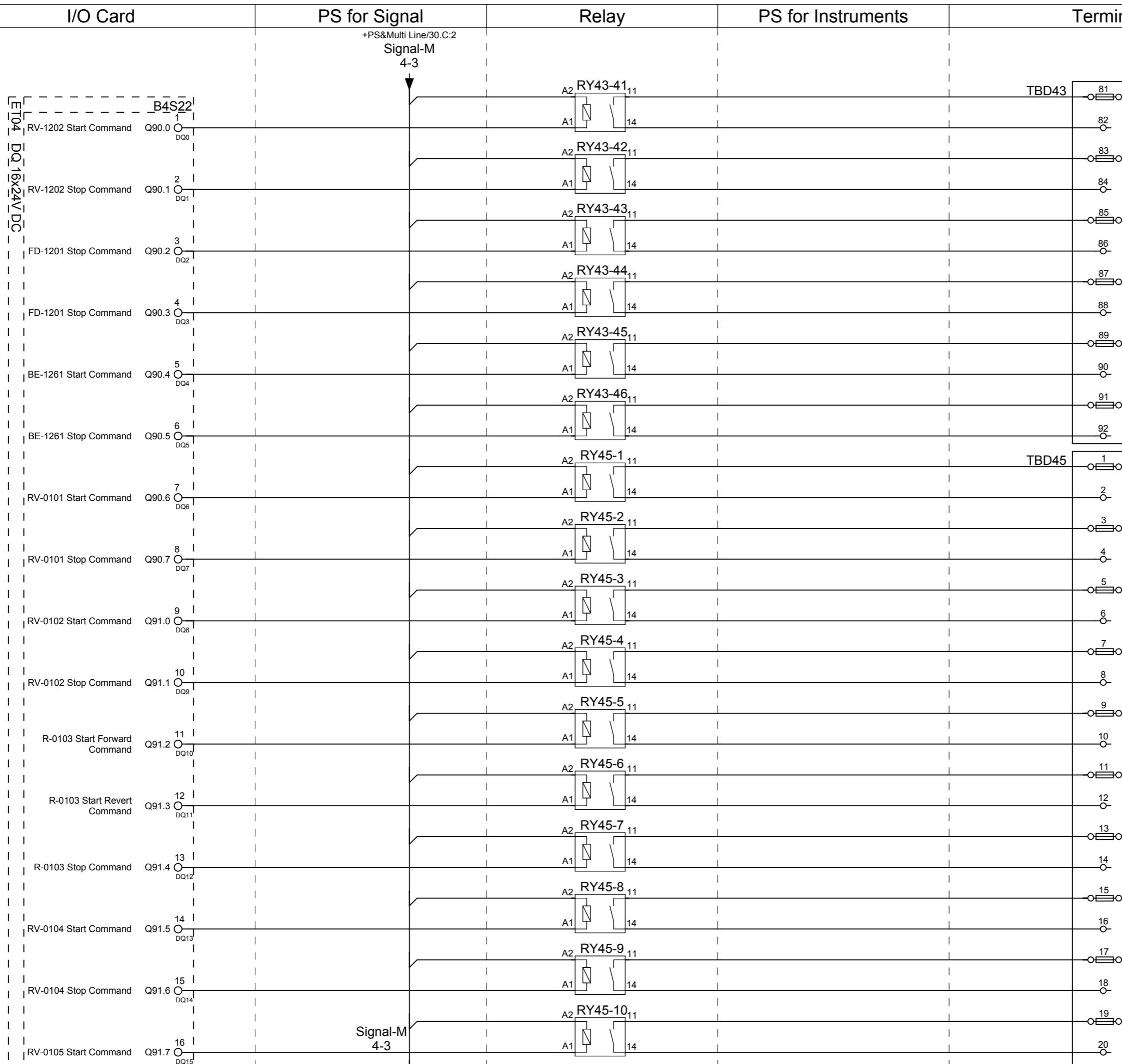
Internal Wiring for PLC-MR-03

B4S21

SCALE 1/1 DWG. NO. SCADA-08-003

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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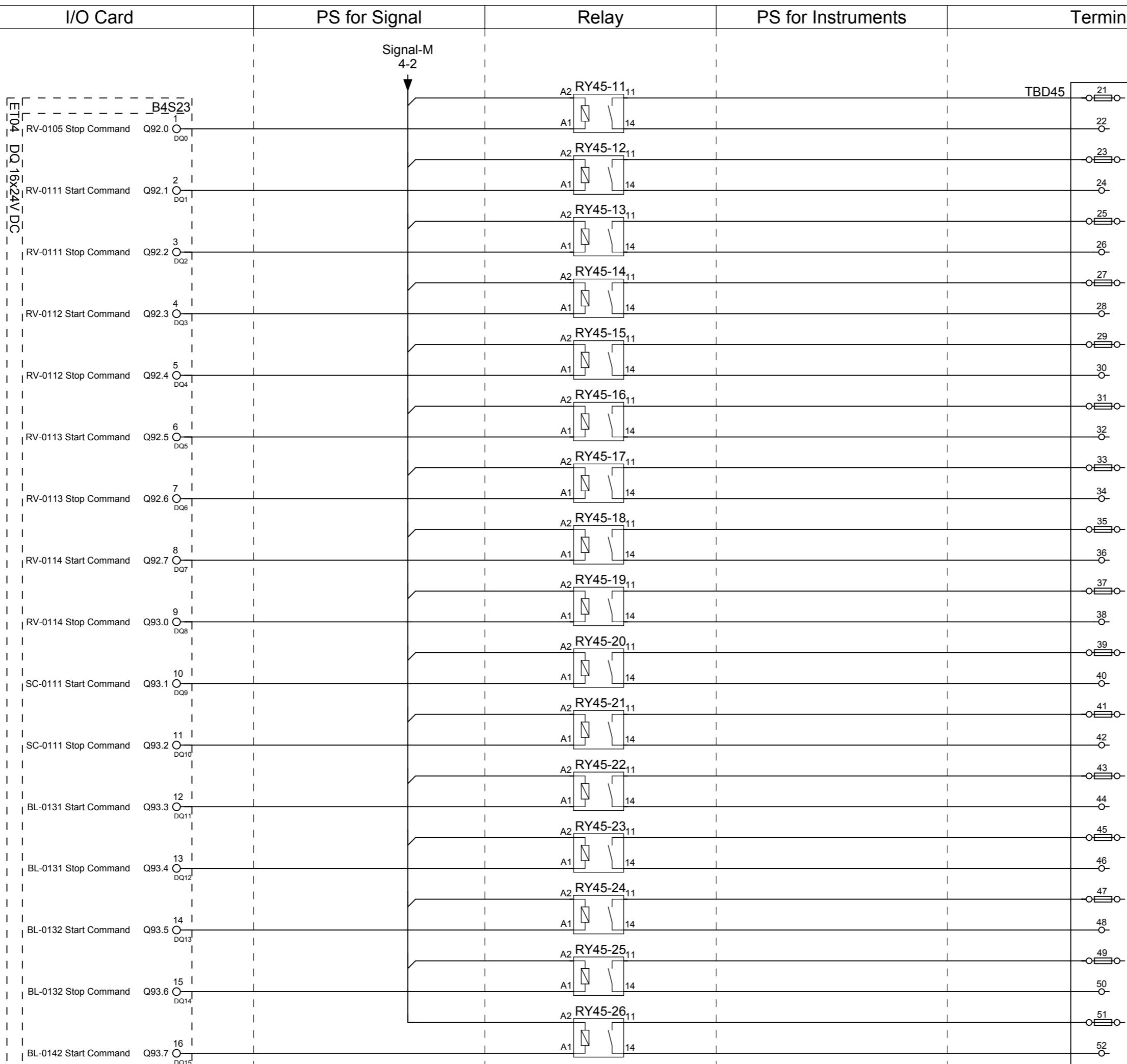
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S22  
138 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

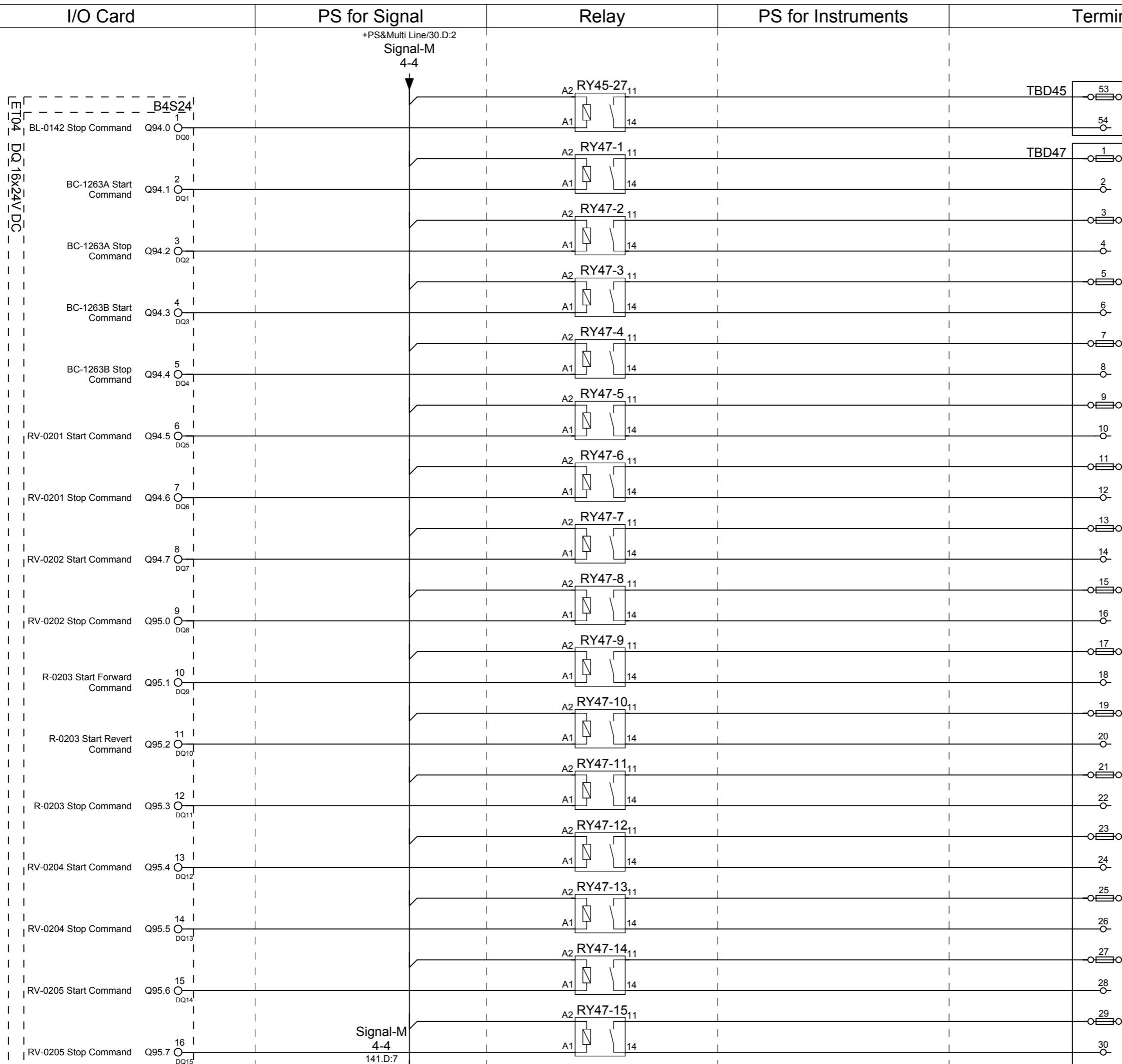
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S23

SCALE 1/1 DWG. NO. SCADA-08-003

139  
182

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.Internal Wiring for PLC-MR-03  
B4S24

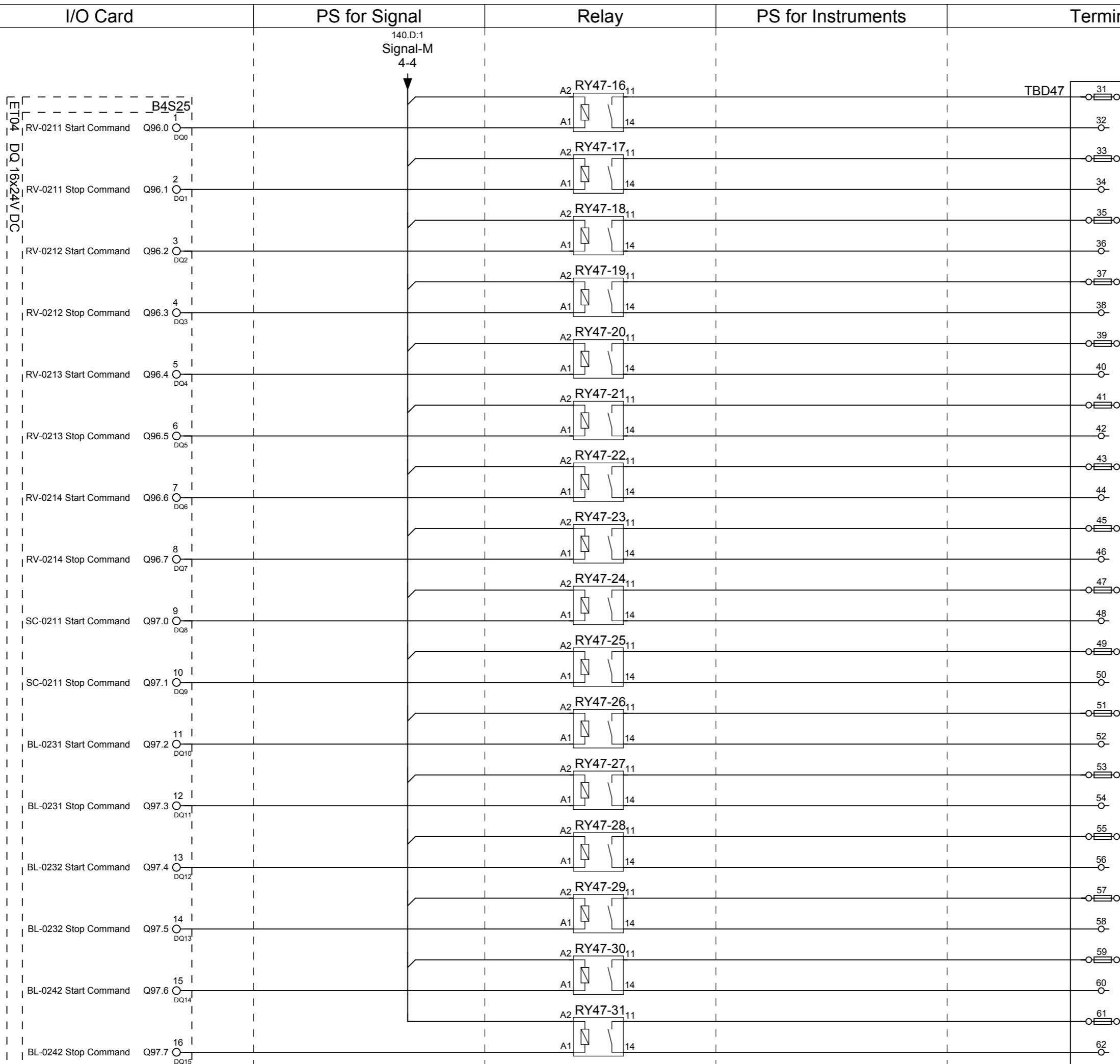
SCALE 1/1 DWG. NO. SCADA-08-003

140  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR:

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

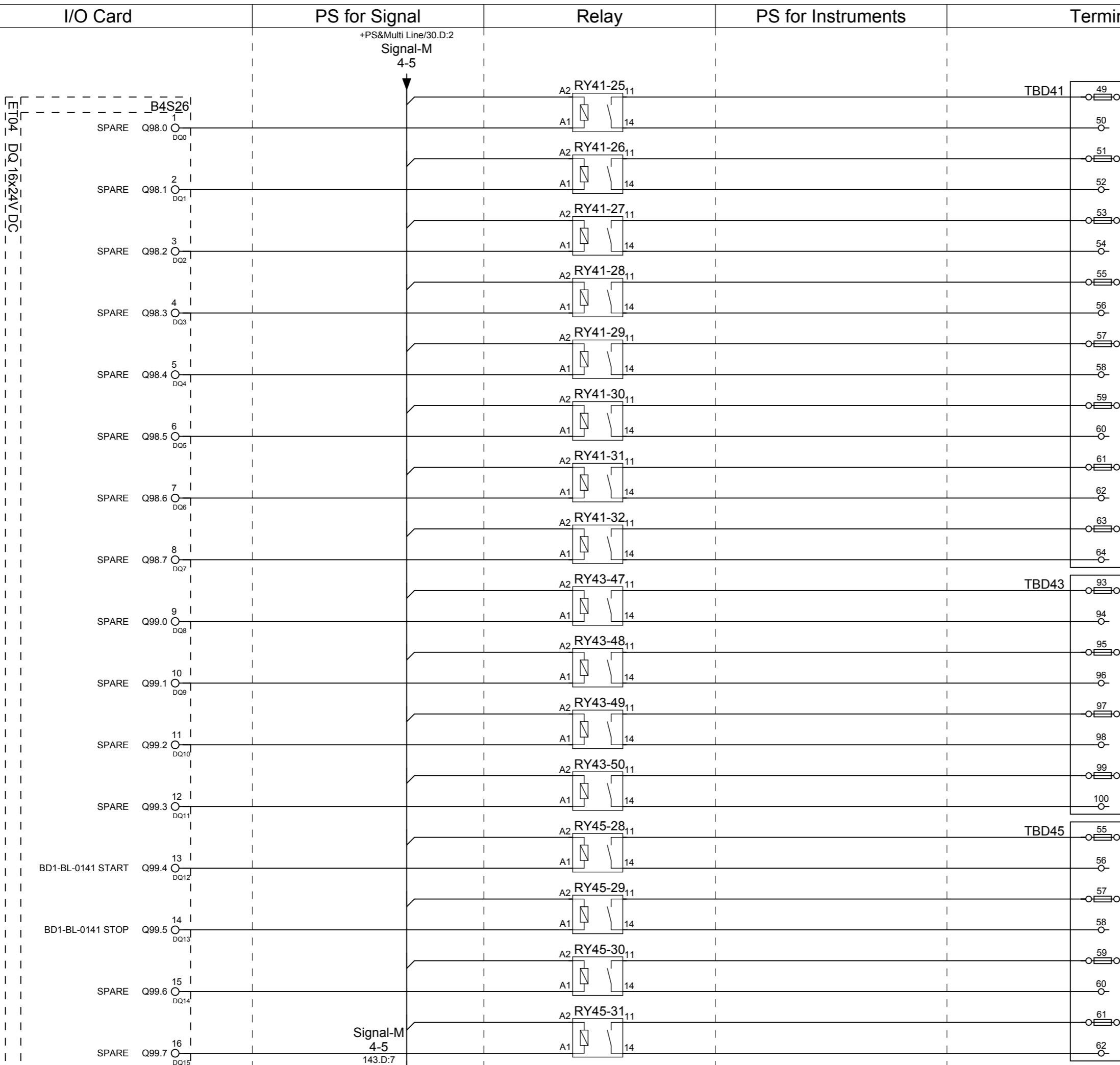
Internal Wiring for PLC-MR-03  
B4S25

SCALE 1/1 DWG. NO. SCADA-08-003

141  
182

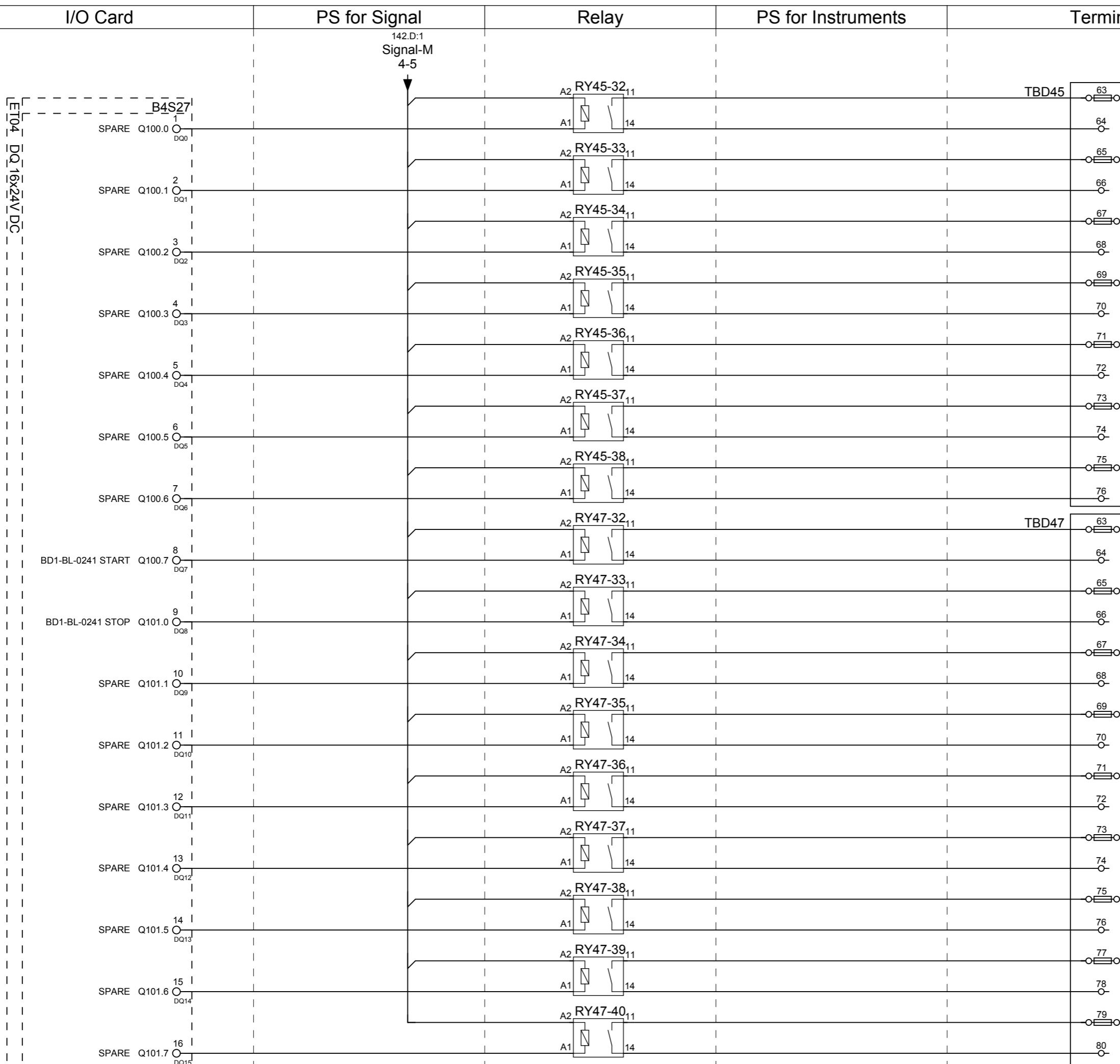
K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City								
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-03								
B4S26								
SCALE	1/1	DWG. NO. SCADA-08-003						

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S27

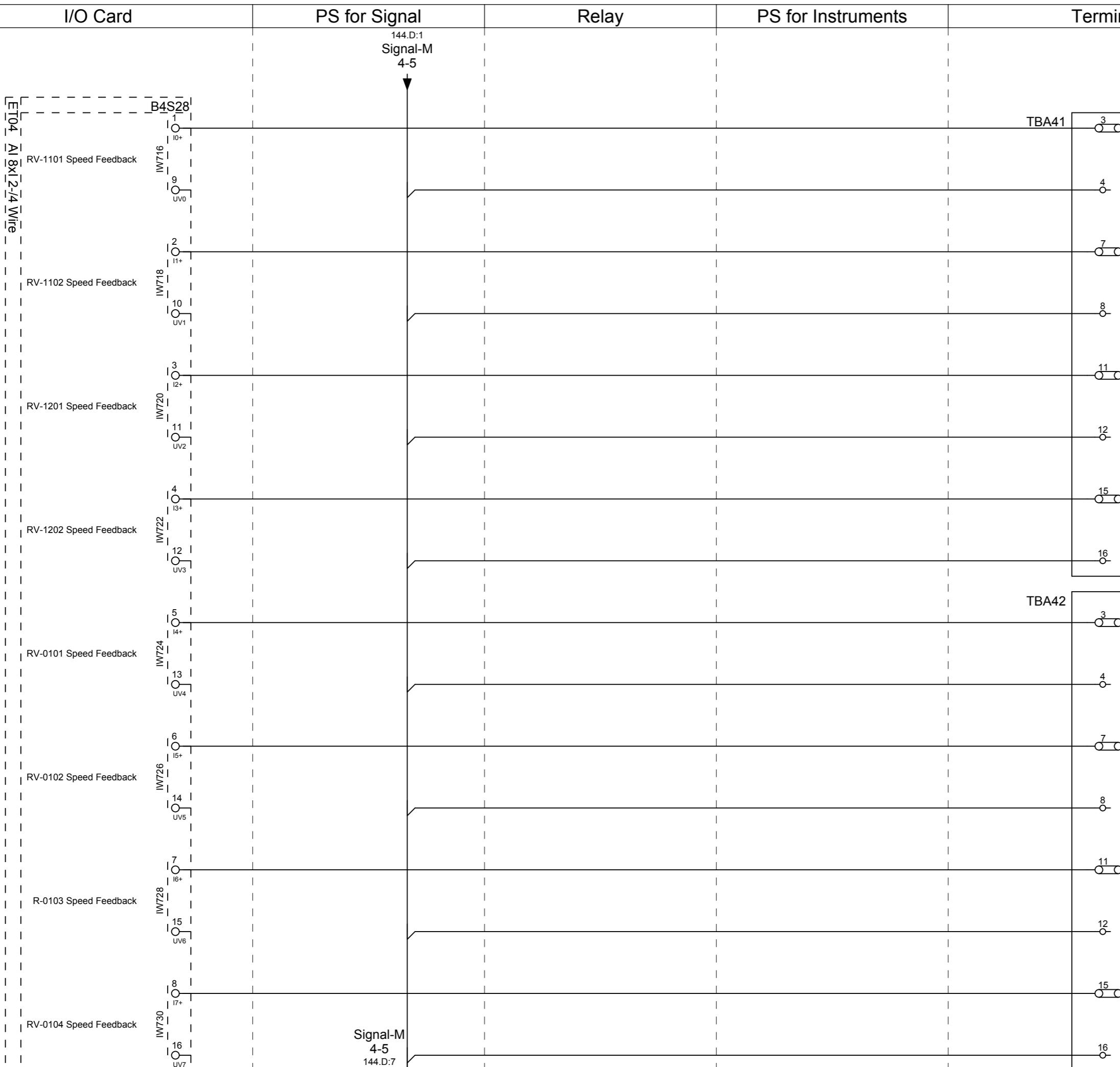
SCALE 1/1 DWG. NO. SCADA-08-003

143  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S28

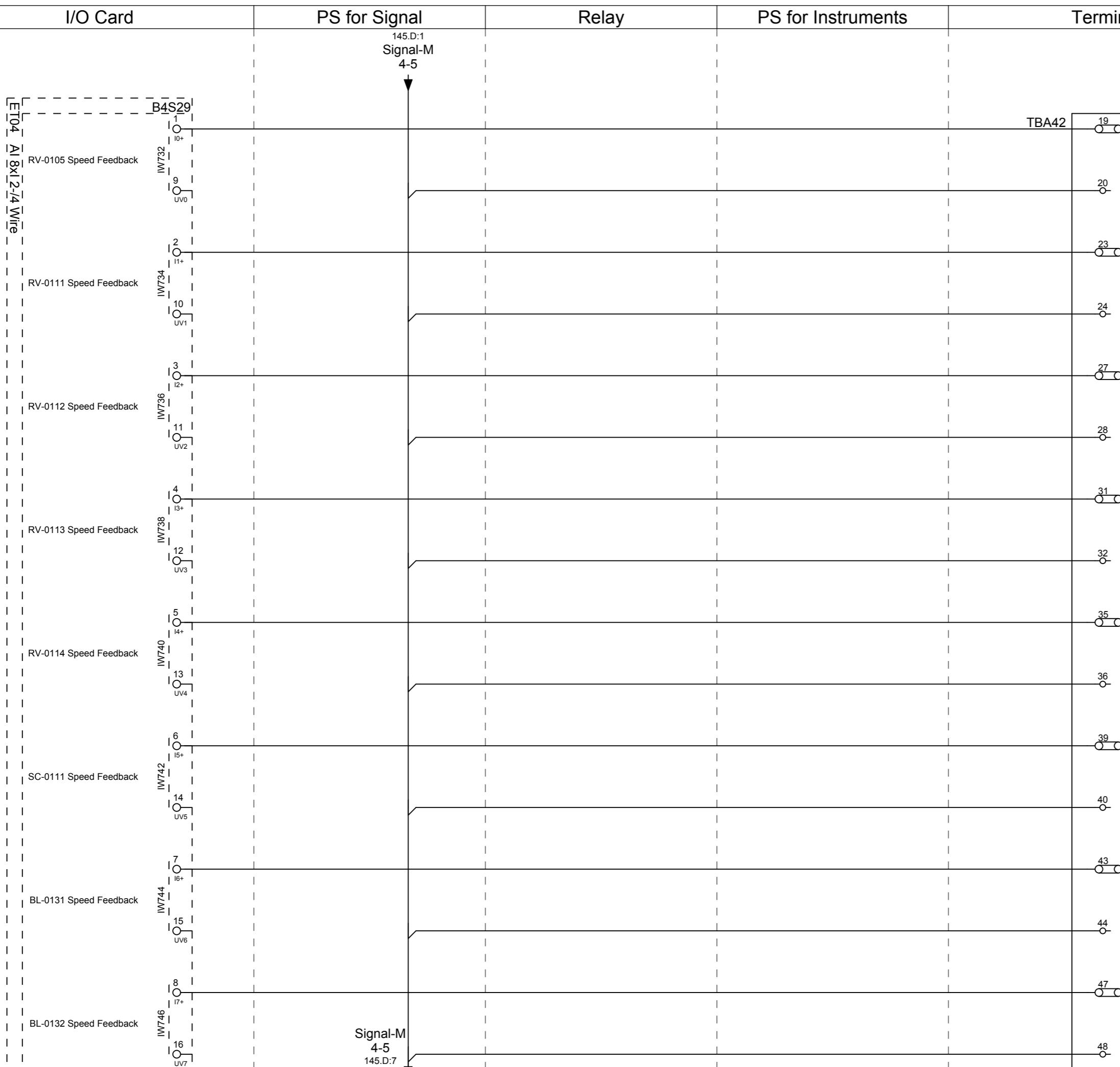
SCALE 1/1 DWG. NO. SCADA-08-003

144  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED ISSUE MARK A

TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City

Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03 B4S29

SCALE 1/1 DWG. NO. SCADA-08-003

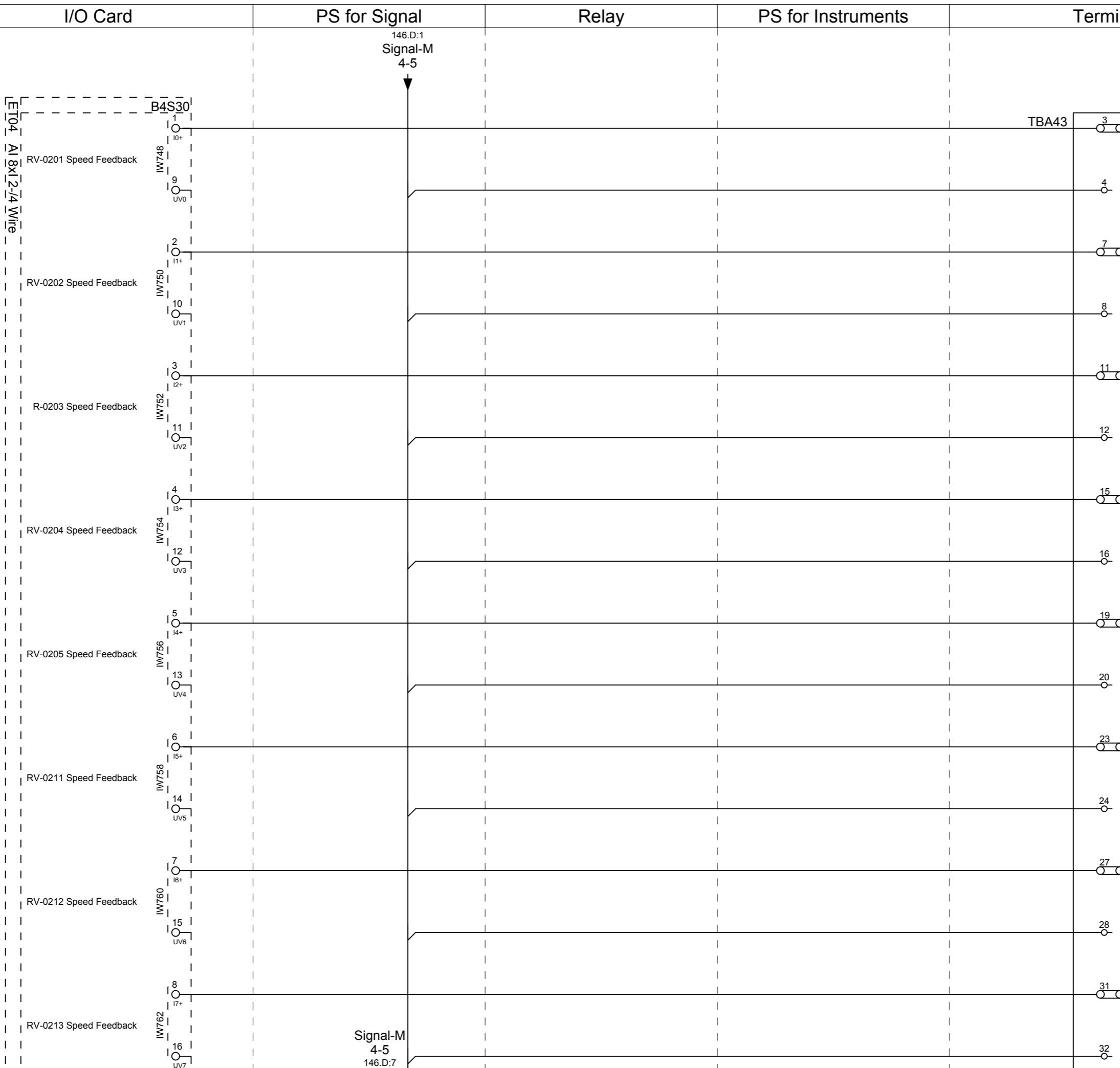
145 182

182

1

K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

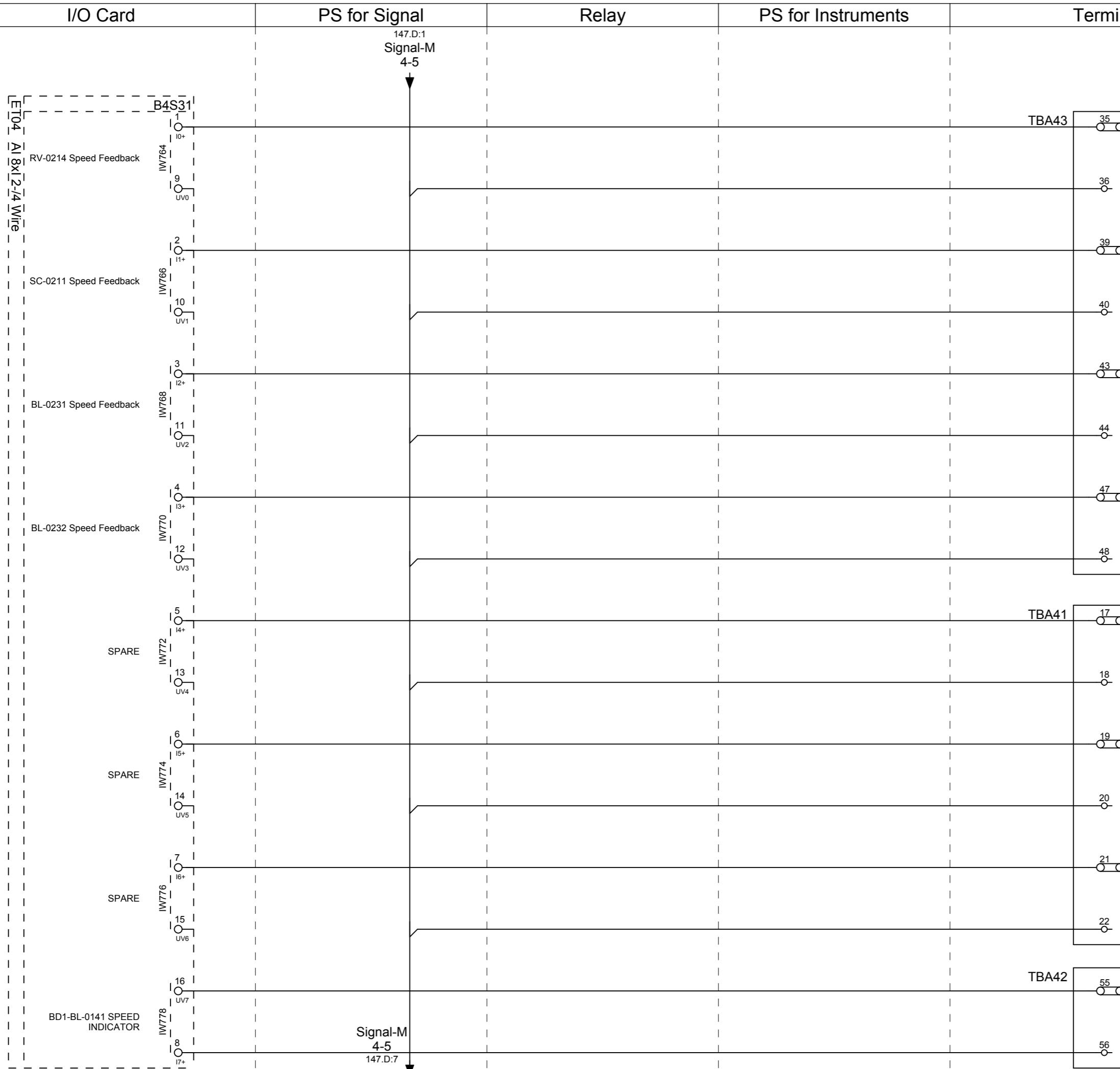
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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S30  
146 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN. CHKD AE. CHIEF MGR. APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

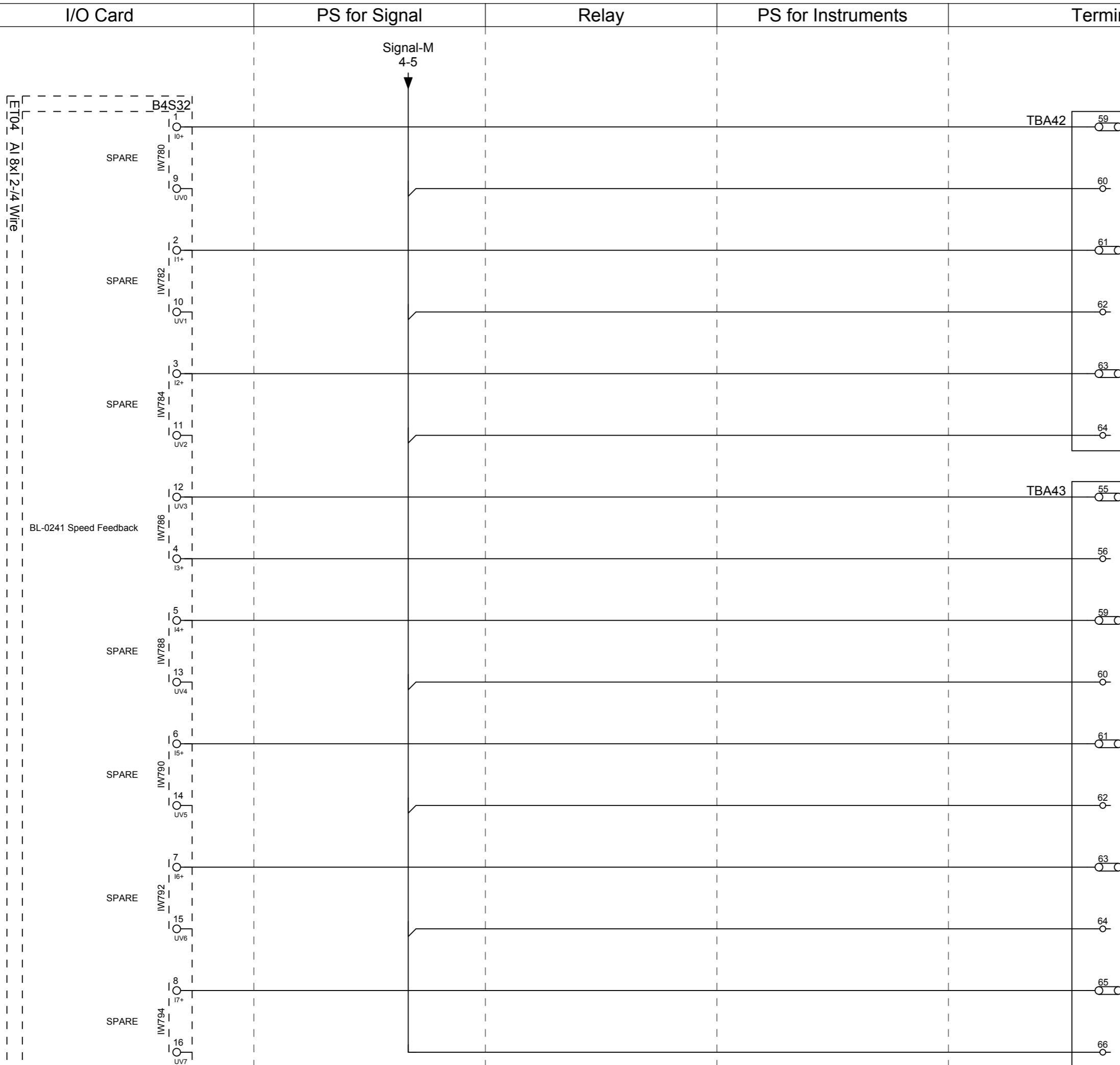
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S31  
147 182  
SCALE 1/1 DWG. NO. SCADA-08-003  
K File Name: SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
								DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

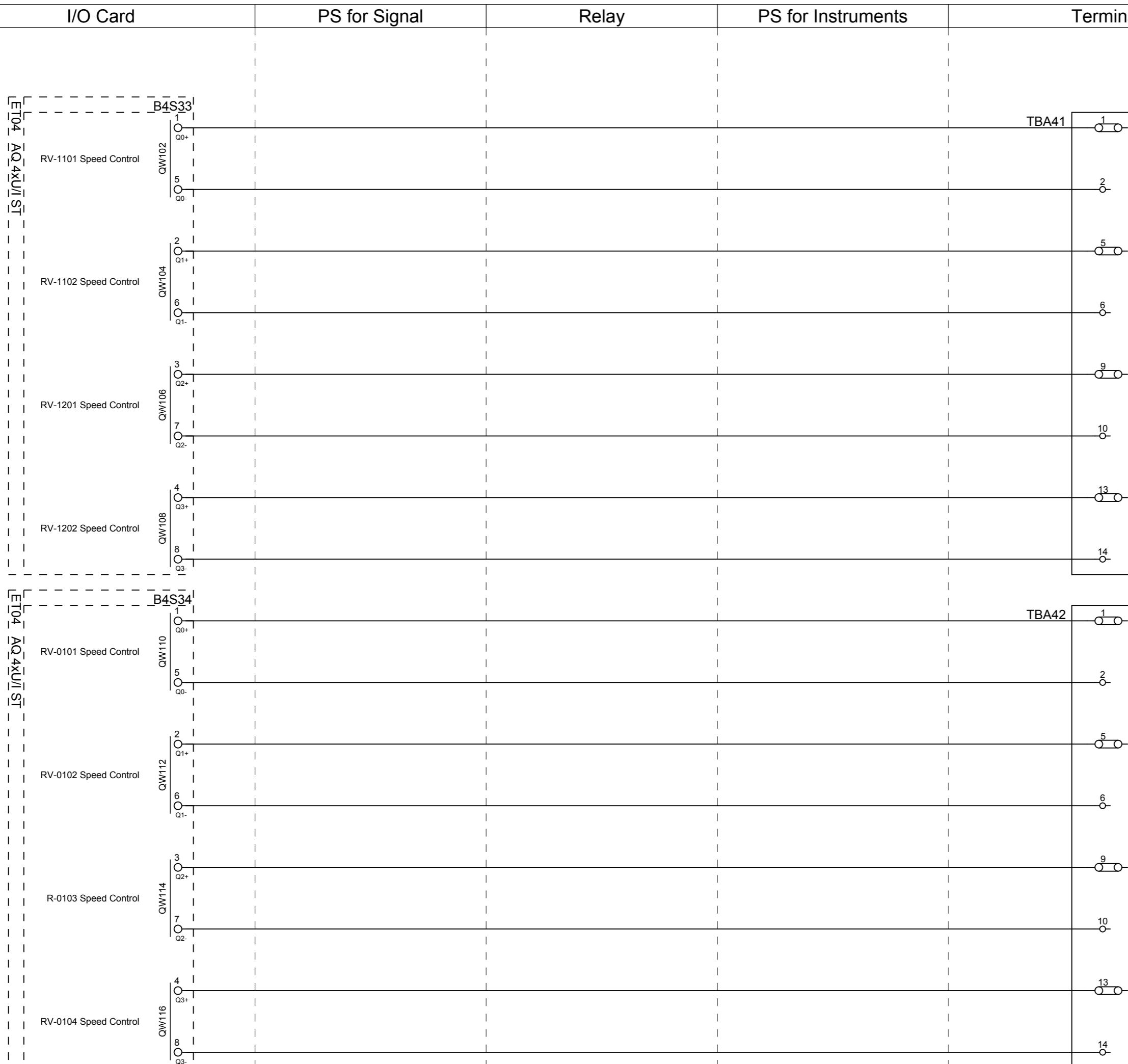
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S32  
148 182

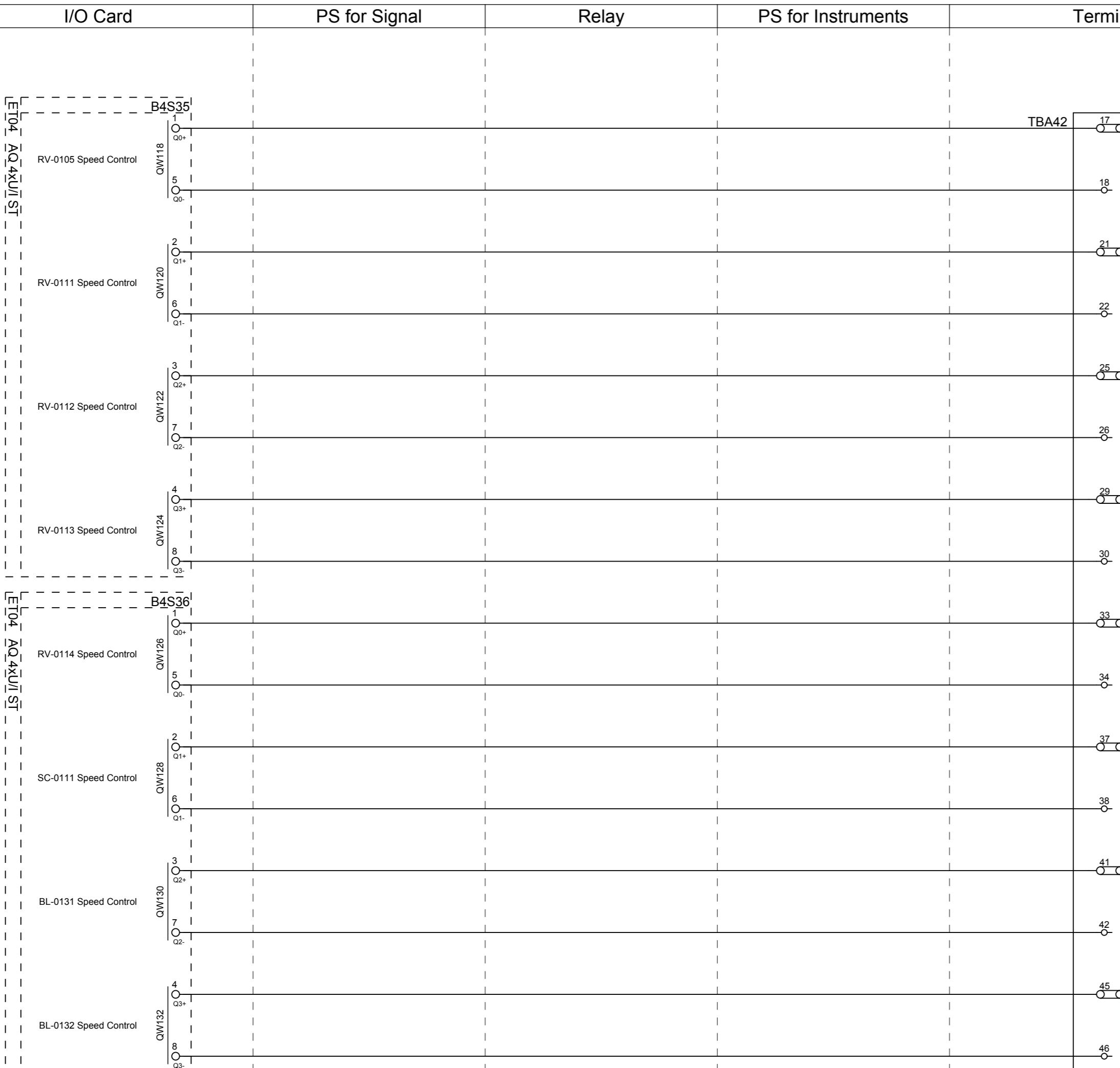
SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DD/MM/YY
<b>PROJECT:</b> 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
<b>OWNER:</b> IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY								
Hoai Nhon District, Binh Dinh Province								
THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCODES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR TO USE THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.								
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD								
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City								
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.								
SCALE 1/1 DWG. NO. SCADA-08-003								

## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-03  
B4S35, B4S36

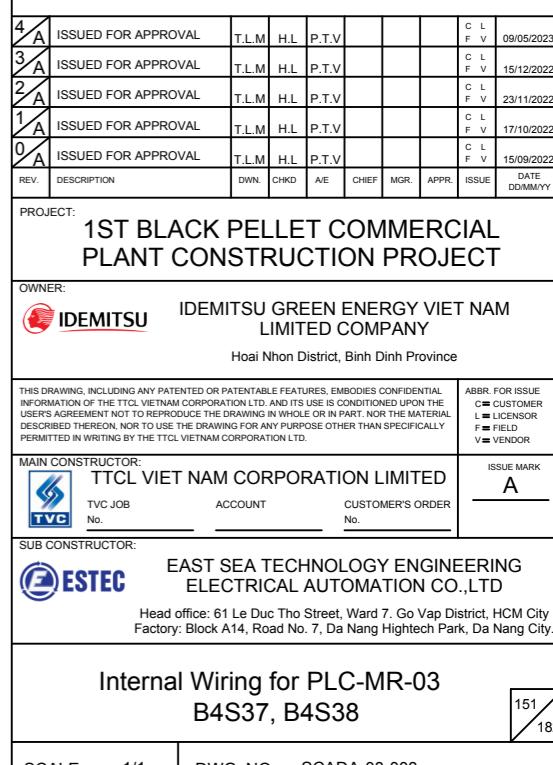
SCALE 1/1 DWG. NO. SCADA-08-003

150 182

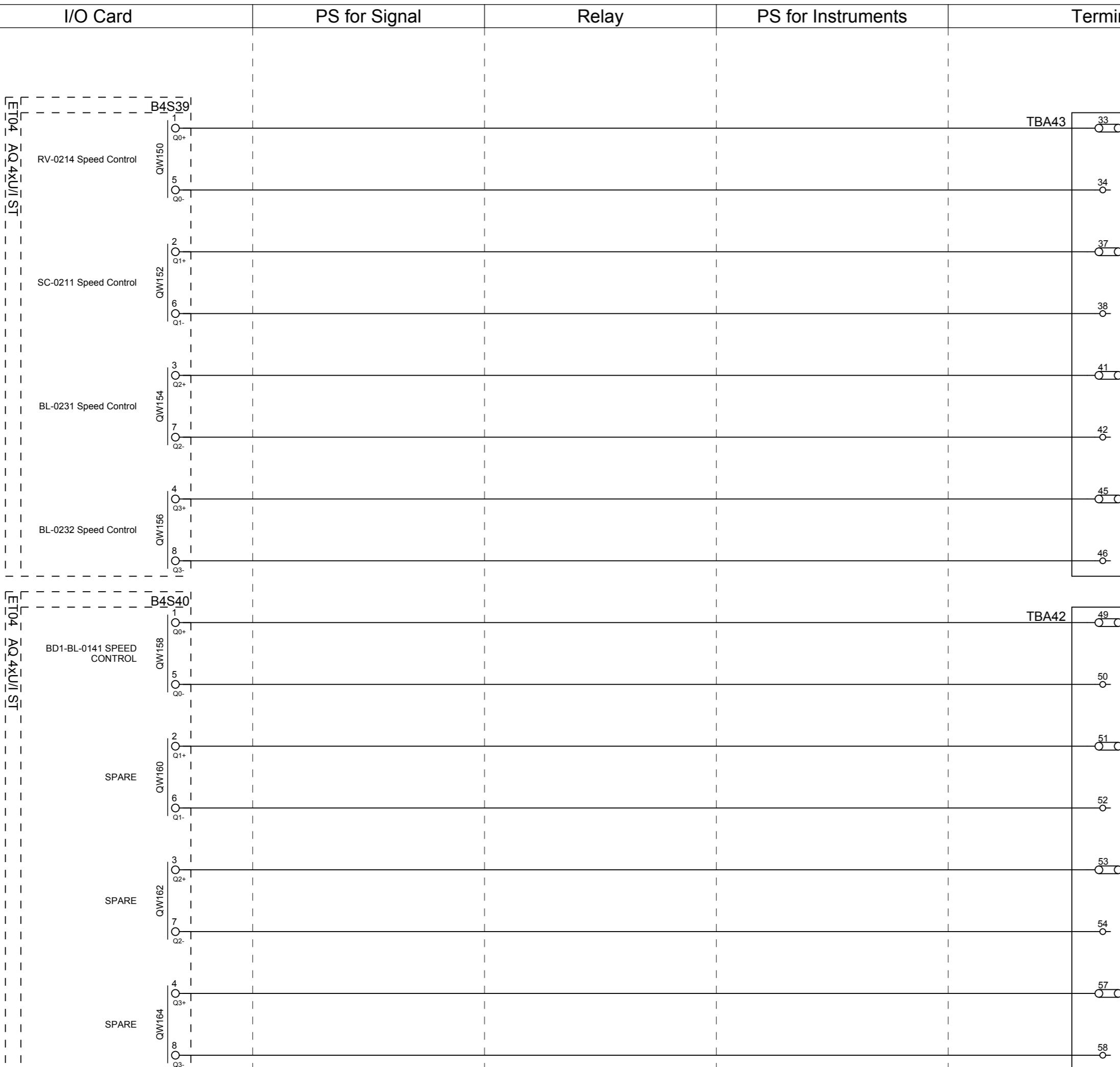
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K File Name: SCADA-08-003

PLC-MR-03



## PLC-MR-03



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

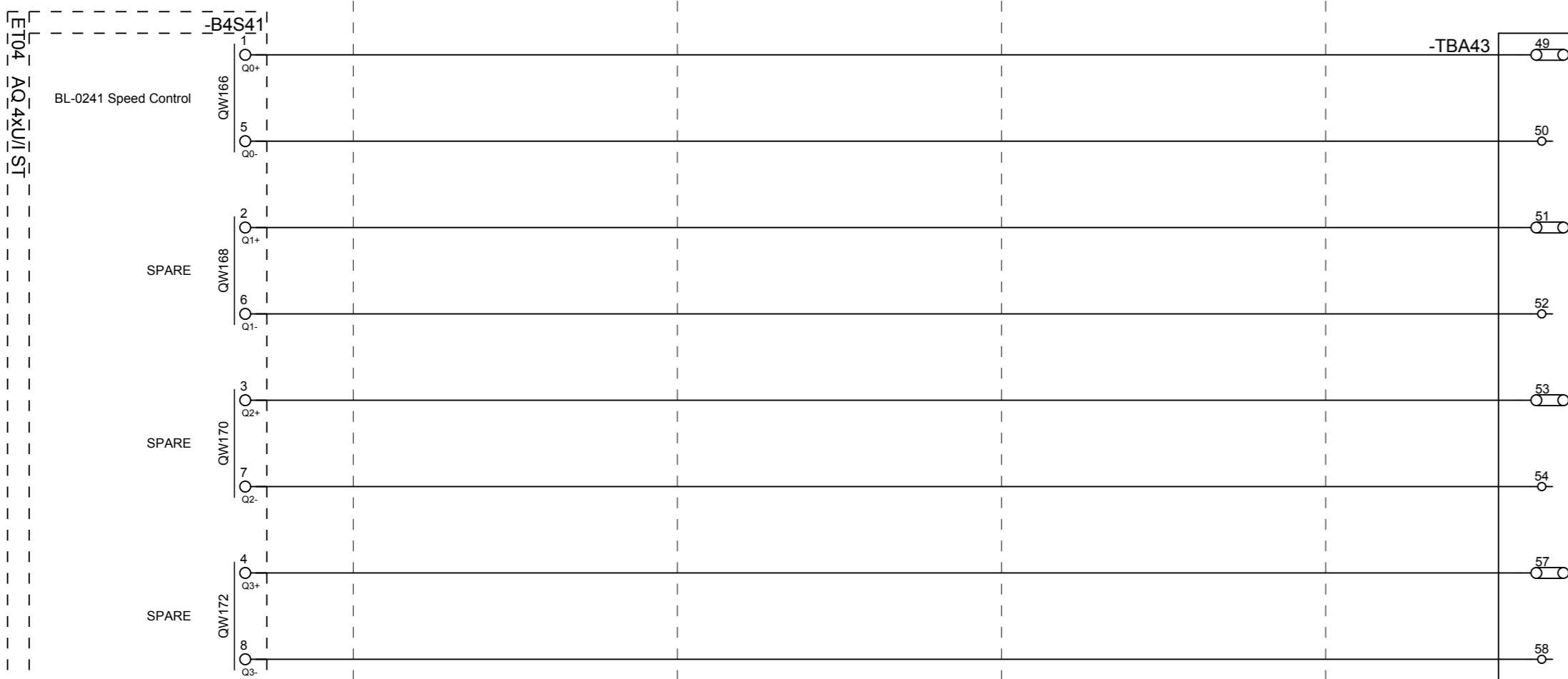
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S39, B4S40  
152  
182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-03

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
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4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
00MMYY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-03  
B4S41  
153 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S1

SCALE 1/1 DWG. NO. SCADA-08-003

154  
182

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE

DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCODES CONFIDENTIAL  
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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.Internal Wiring for PLC-MR-04  
B5S2

SCALE 1/1 DWG. NO. SCADA-08-003

155  
182

Scale Plot

K File Name: SCADA-08-003

PLC-MR-04

I/O Card	PS for Signal	Relay	PS for Instruments	Termin
		155.D:1 Signal-L+ 5-1		
DI 16x24VDC SI	B5S3		TBD56	51 C 52 O 53 C 54 O 55 C 56 O 57 C 58 O 59 C 60 O 61 C 62 O 63 C 64 O 65 C 66 O 67 C 68 O 69 C 70 O 71 C 72 O 73 C 74 O 75 C 76 O 77 C 78 O 79 C 80 O 81 C 82 O
BC-1183B Running	I800.0 O DI0			
BC-1183B Local/Remote	I800.1 O DI1			
BC-1183B Fault	I800.2 O DI2			
BC-1183B Sway Switch	I800.3 O DI3			
BC-1183B Pull Cord	I800.4 O DI4			
BE-1182 Running	I800.5 O DI5			
BE-1182 Local/Remote	I800.6 O DI6			
BE-1182 Fault	I800.7 O DI7			
BE-1182 Emergency Stop	I801.0 O DI8			
BE-1282 Running	I801.1 O DI9			
BE-1282 Local/Remote	I801.2 O DI10			
BE-1282 Fault	I801.3 O DI11			
BE-1282 Emergency Stop	I801.4 O DI12			
FD-1111 Running	I801.5 O DI13			
FD-1111 Local/Remote	I801.6 O DI14			
FD-1111 Fault	I801.7 O DI15	Signal-L+ 5-1 157.D:7		

<u>4</u>	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	09/05
<u>3</u>	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	15/12
<u>2</u>	A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V			C L	15/12

A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V	F	V	23/11/08			
REV.	DESCRIPTION	DWN.	CHKD	A/E	CHIEF	MGR.	APPR.	ISSUE	D/D	DD/MM/08
1/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V				C L F V	17/10/08	
0/A	ISSUED FOR APPROVAL	T.L.M	H.L	P.T.V				C L F V	15/09/08	

**PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT**

Hoai Nhon District, Binh Dinh Province

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ABBR. FOR ISS  
C = CUSTOM  
L = LICENSED  
P = PUBLIC

PERMITTED IN WRITING BY THE TTCI VIETNAM CORPORATION LTD.		V= VENDOR
<b>MAIN CONSTRUCTOR:</b>		
	<b>TTCI VIET NAM CORPORATION LIMITED</b>	
TVCL JOB No.	ACCOUNT	CUSTOMER'S ORDER No.

SUB CONSTRUCTOR: **EESTEC** EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO.,LTD  
Head office: 611a Duc Tho Street, Ward 7, Go Vap District, HCMC

Internal Wiring for PLC-MR-04  
Page 15

B5S3

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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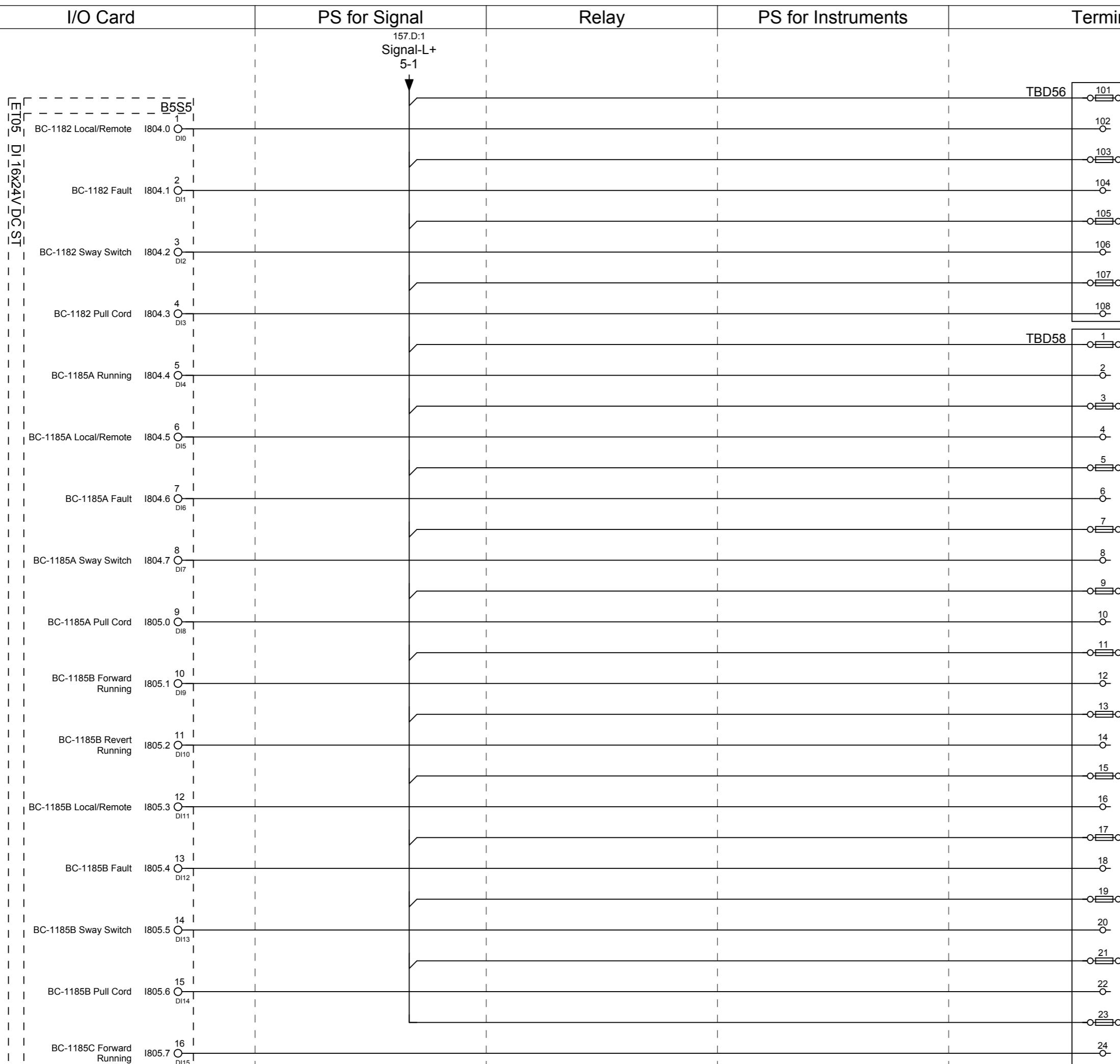
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S4  
157 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
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Internal Wiring for PLC-MR-04  
B5S5  
SCALE 1/1 DWG. NO. SCADA-08-003  
158 182  
File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S6

SCALE 1/1 DWG. NO. SCADA-08-003

159  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04

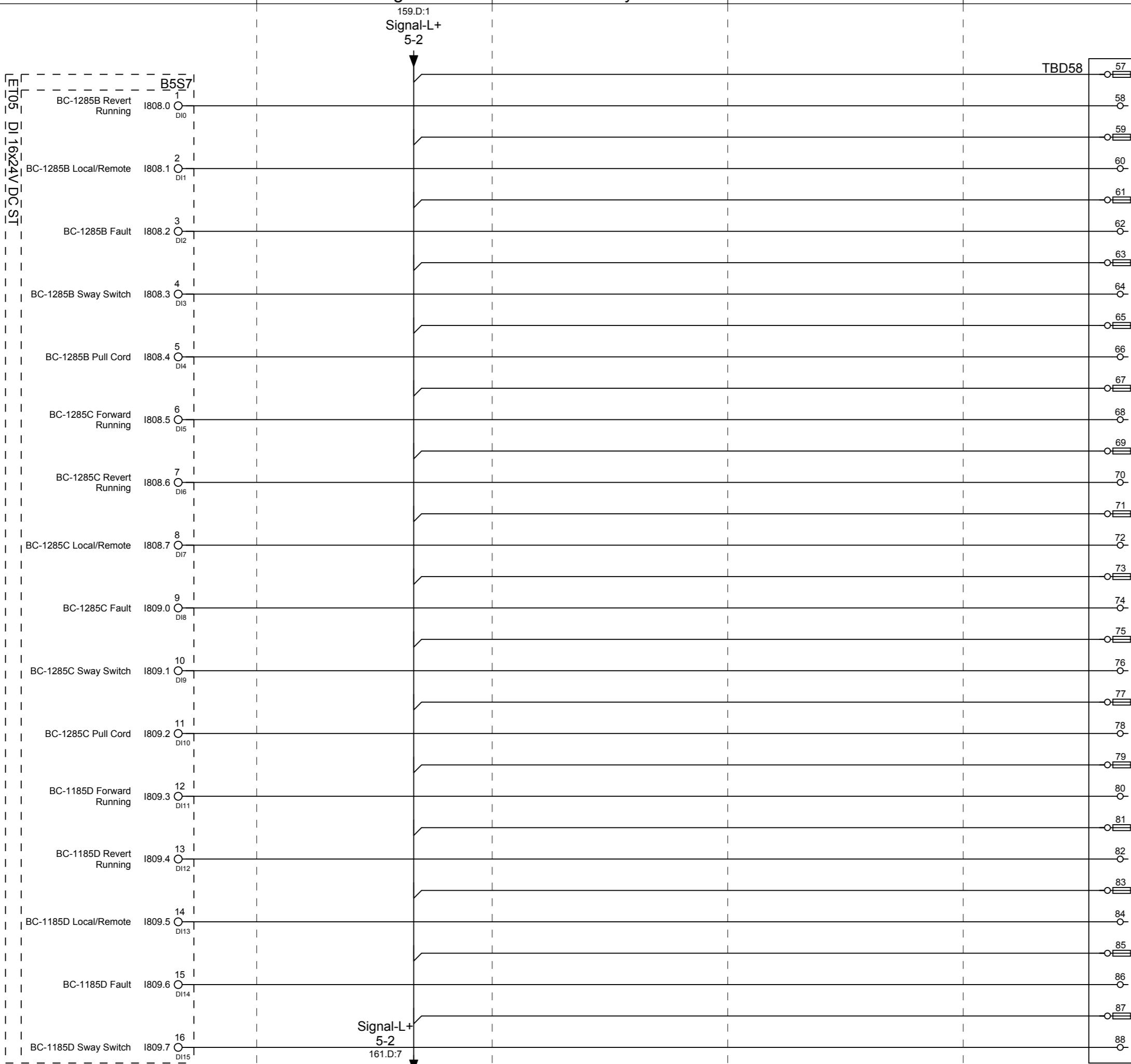
Relay

PS for Instruments

Terminal

I/O Card

PS for Signal



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	08/10/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S7

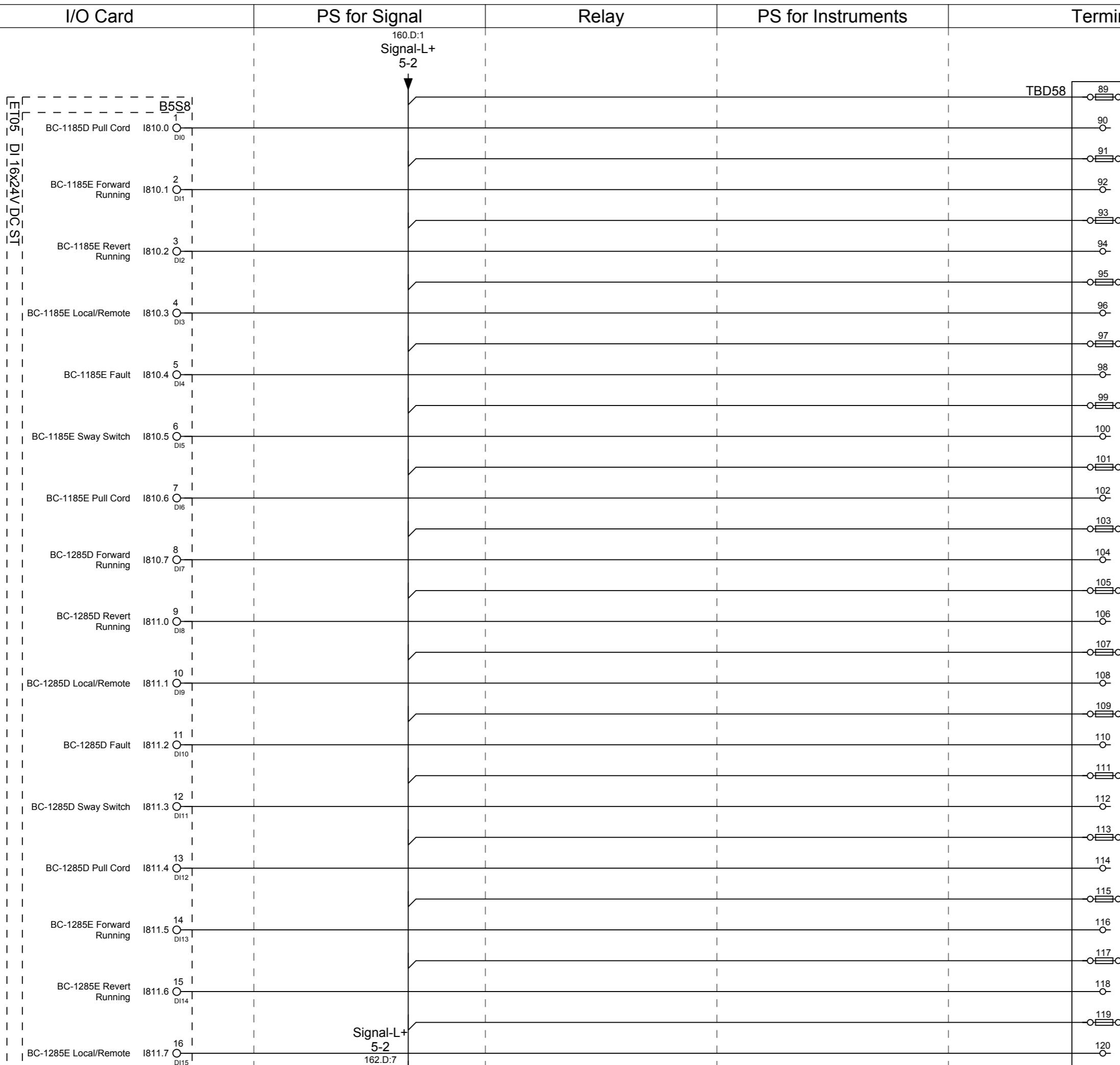
SCALE 1/1 DWG. NO. SCADA-08-003

160  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-MR-04  
B5S8

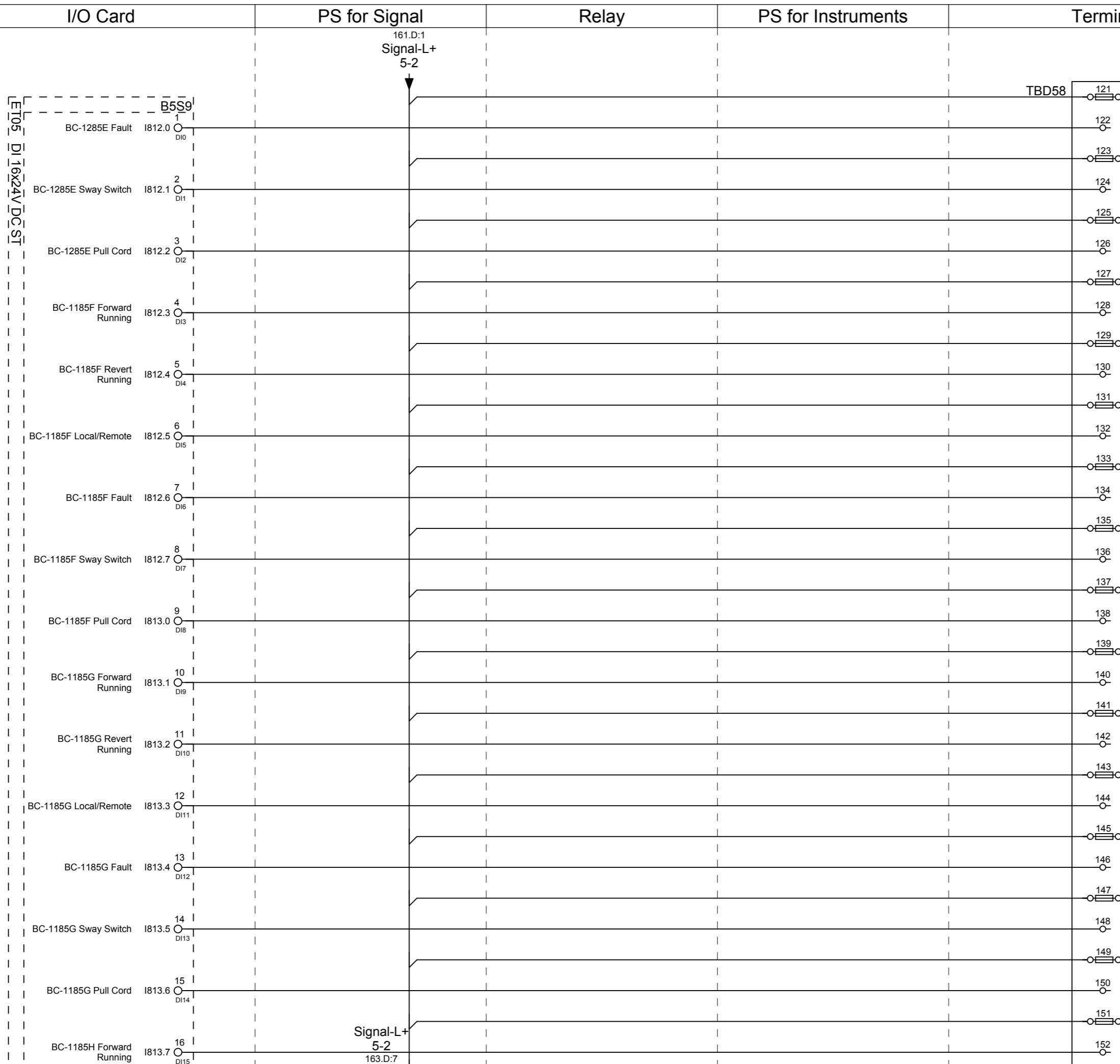
SCALE 1/1 DWG. NO. SCADA-08-003

161  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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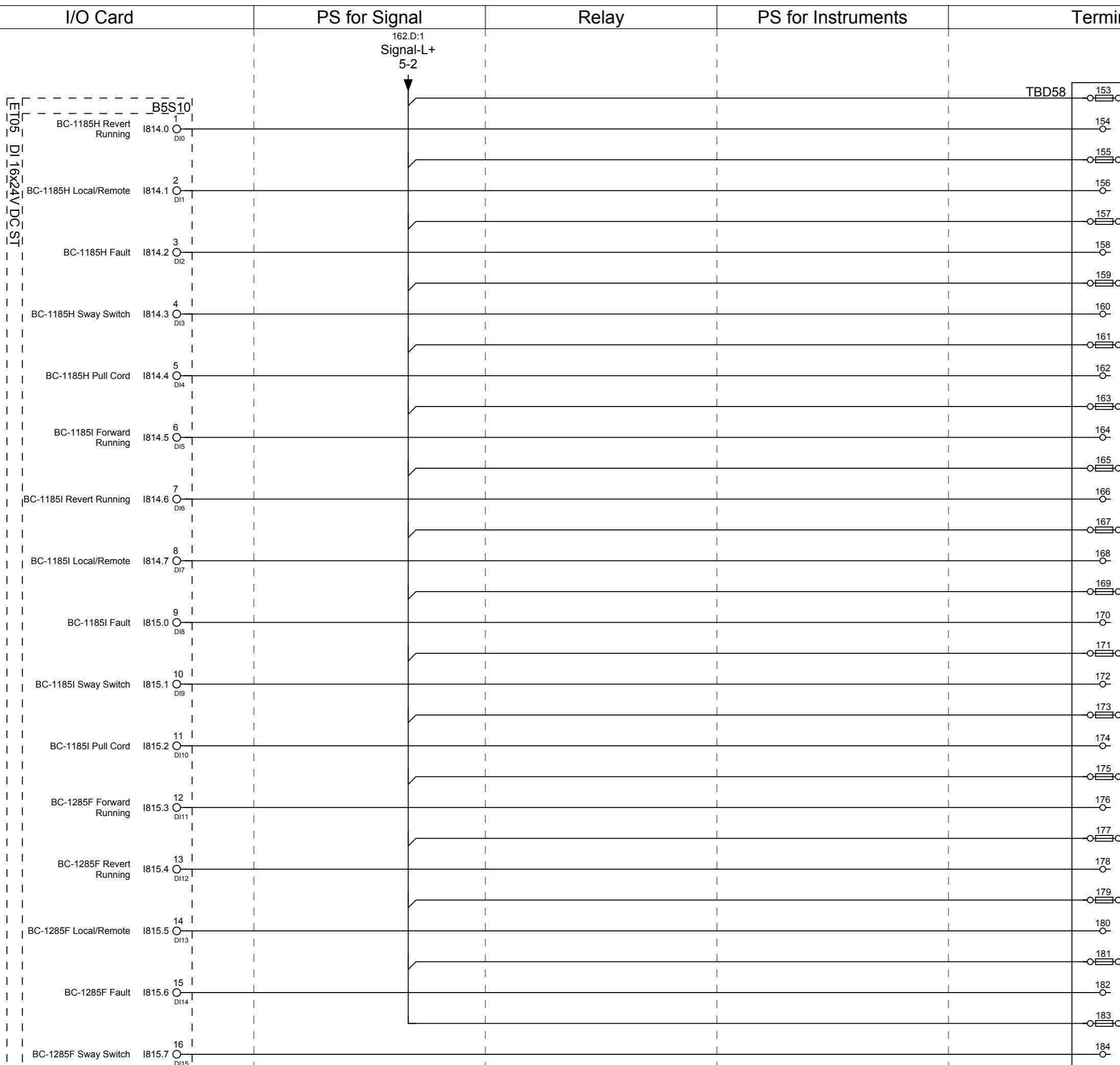
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

EESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-04  
B5S9  
162 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
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PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSEE  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR:

ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

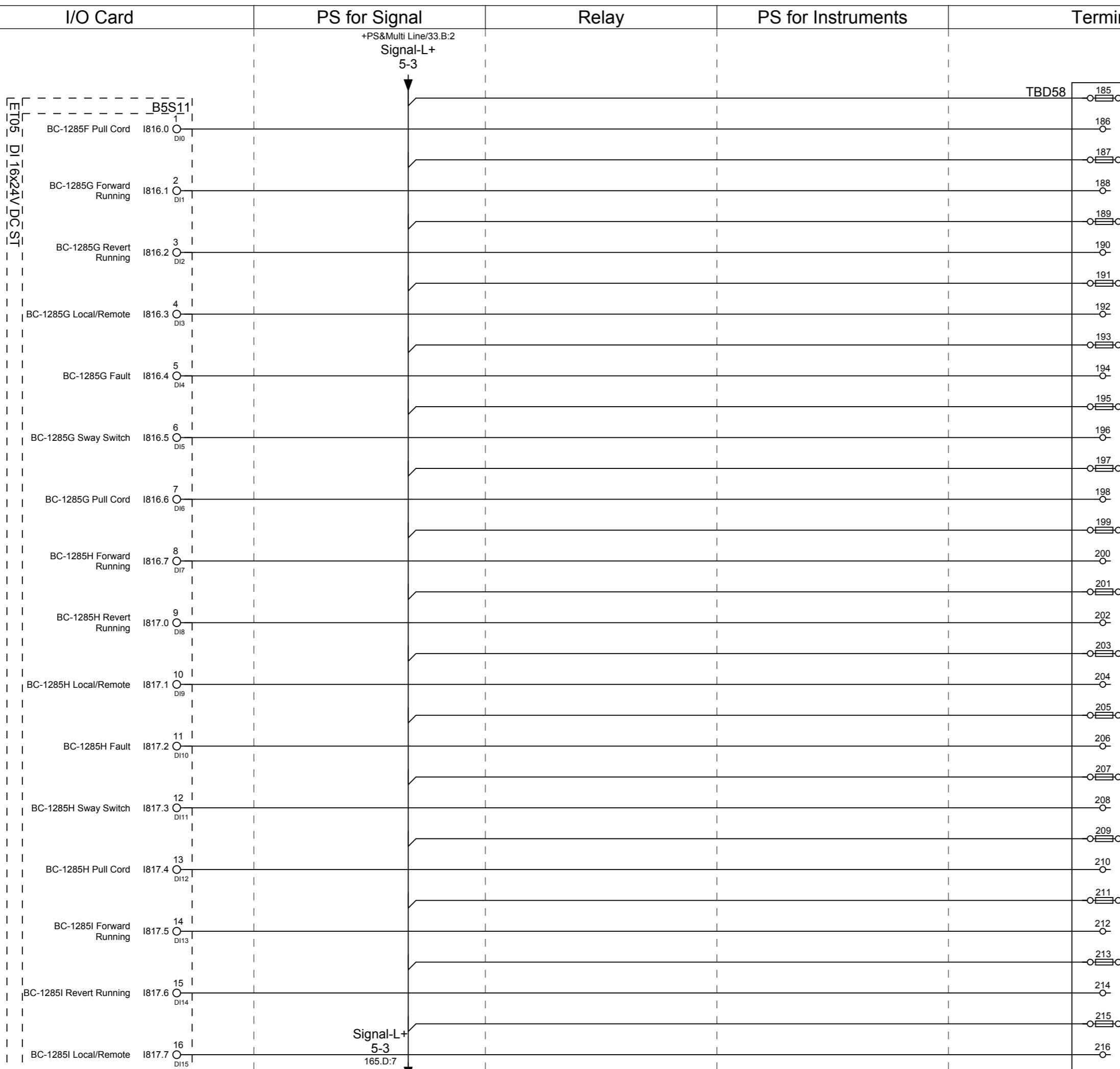
Internal Wiring for PLC-MR-04  
B5S10

SCALE 1/1 DWG. NO. SCADA-08-003

163  
182

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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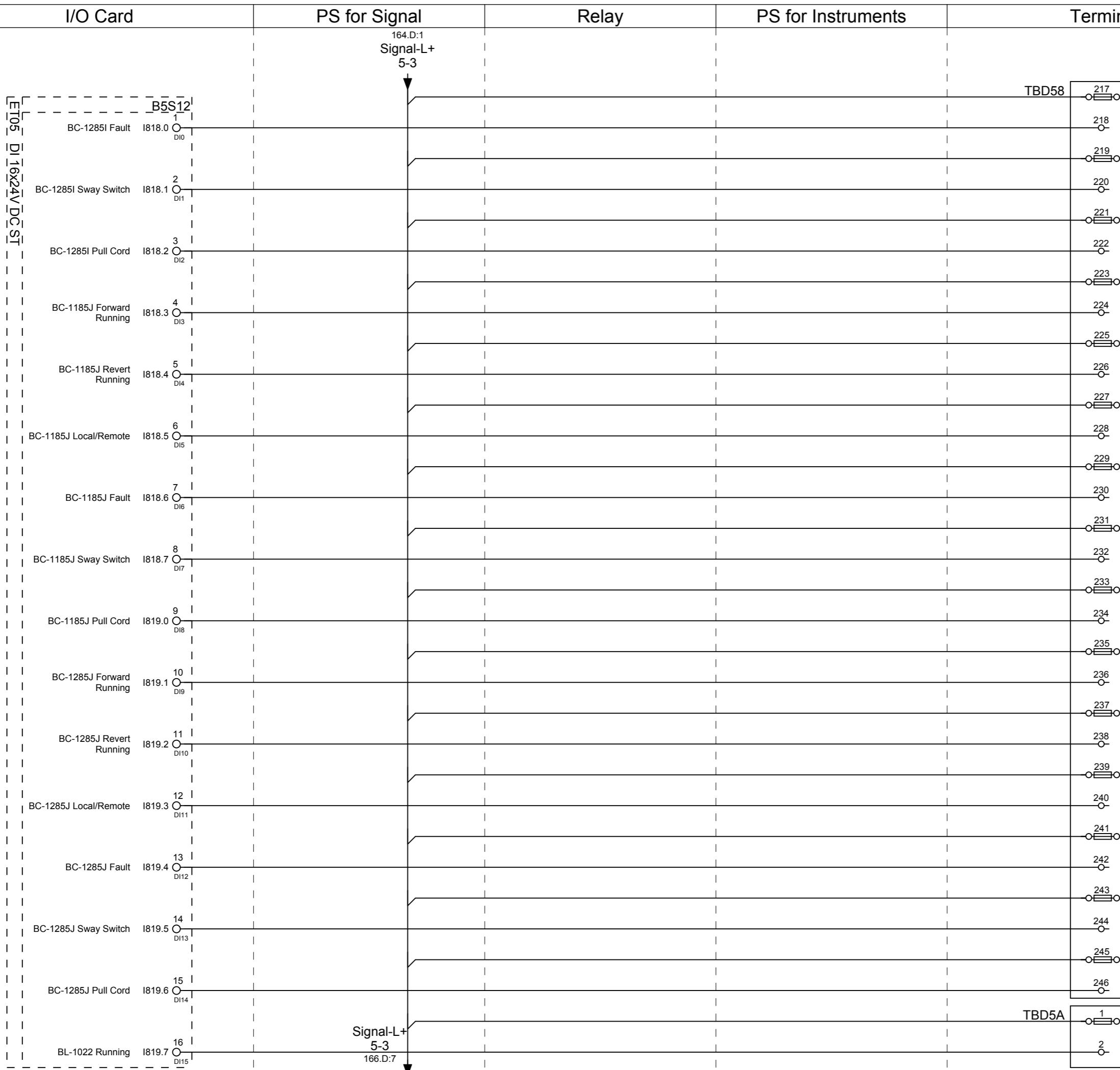
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City

Internal Wiring for PLC-MR-04  
B5S11  
164 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S12  
165 182

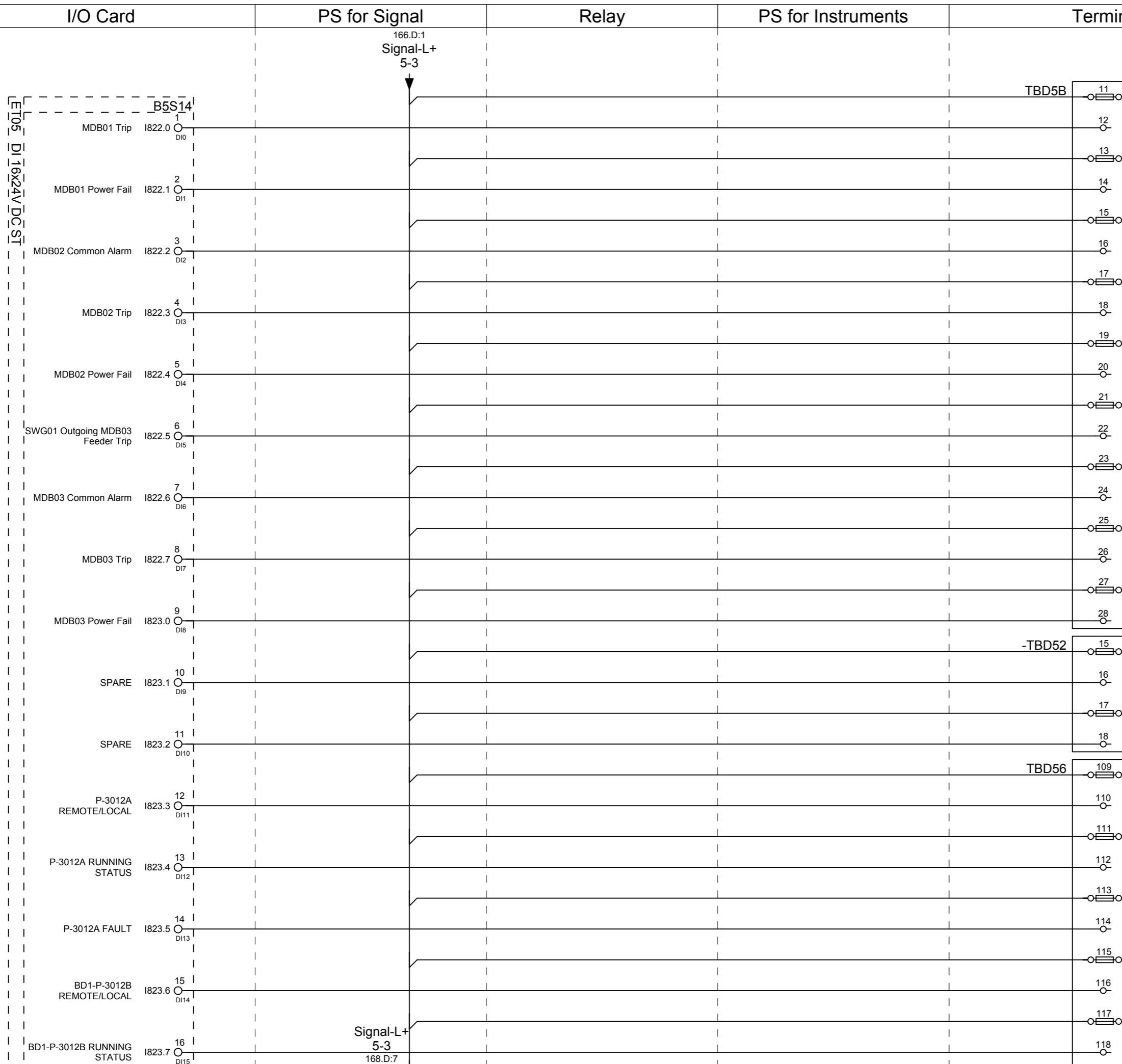
SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	08/09/2022
REV.	DESCRIPTION	DWN	CHKD	AE	CHIEF	MGR	APPR.	ISSUE DATE
								DD/MM/YY
PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT								
OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY Hoai Nhon District, Binh Dinh Province								
THIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCODES CONFIDENTIAL INFORMATION OF THE TTCL VIETNAM CORPORATION LTD. AND ITS USE IS CONDITIONED UPON THE USER'S AGREEMENT NOT TO REPRODUCE THE DRAWING IN WHOLE OR IN PART, NOR TO USE THE MATERIAL DESCRIBED THEREON, NOR TO USE THE DRAWING FOR ANY PURPOSE OTHER THAN SPECIFICALLY PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.								
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED ISSUE MARK A								
TVC TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.								
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.								
Internal Wiring for PLC-MR-04 B5S13								
SCALE	1/1	DWG. NO.	SCADA-08-003					

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

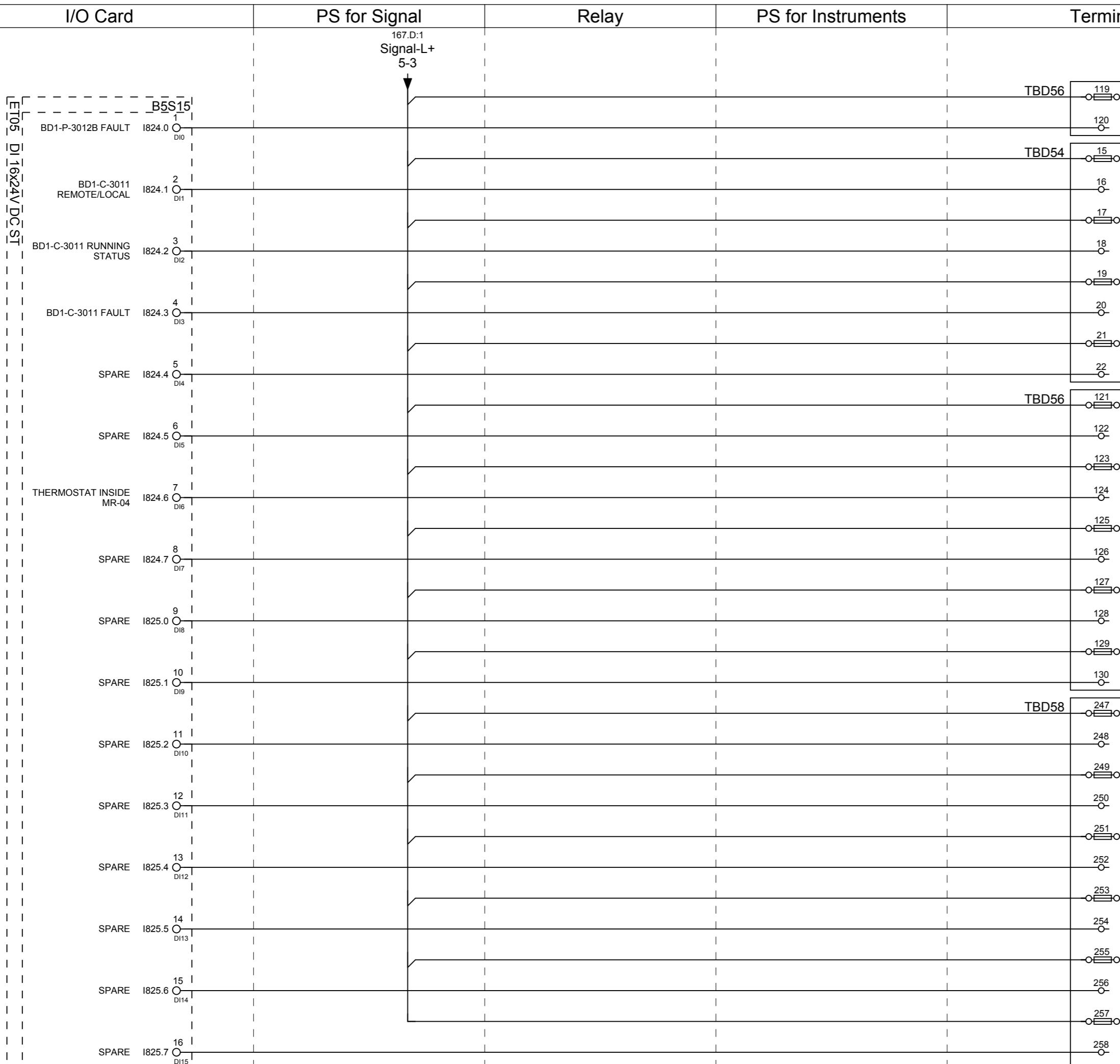
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-MR-04  
B5S14  
167 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV.	DESCRIPTION	DWN	CHKD	AE	CHEIF	MGR	APPR.	ISSUE DATE
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PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT							
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OWNER:	IDEMITSU	IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY					
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Hoai Nhon District, Binh Dinh Province							
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MAIN CONSTRUCTOR:	TTCL VIET NAM CORPORATION LIMITED	ISSUE MARK	A
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TVC	TVC JOB No.	ACCOUNT	CUSTOMER'S ORDER No.
-----	-------------	---------	----------------------

SUB CONSTRUCTOR:			
------------------	--	--	--

ESTEC	EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO.,LTD		
-------	---	--	--

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City			
--	--	--	--

Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.			
--	--	--	--

Internal Wiring for PLC-MR-04			
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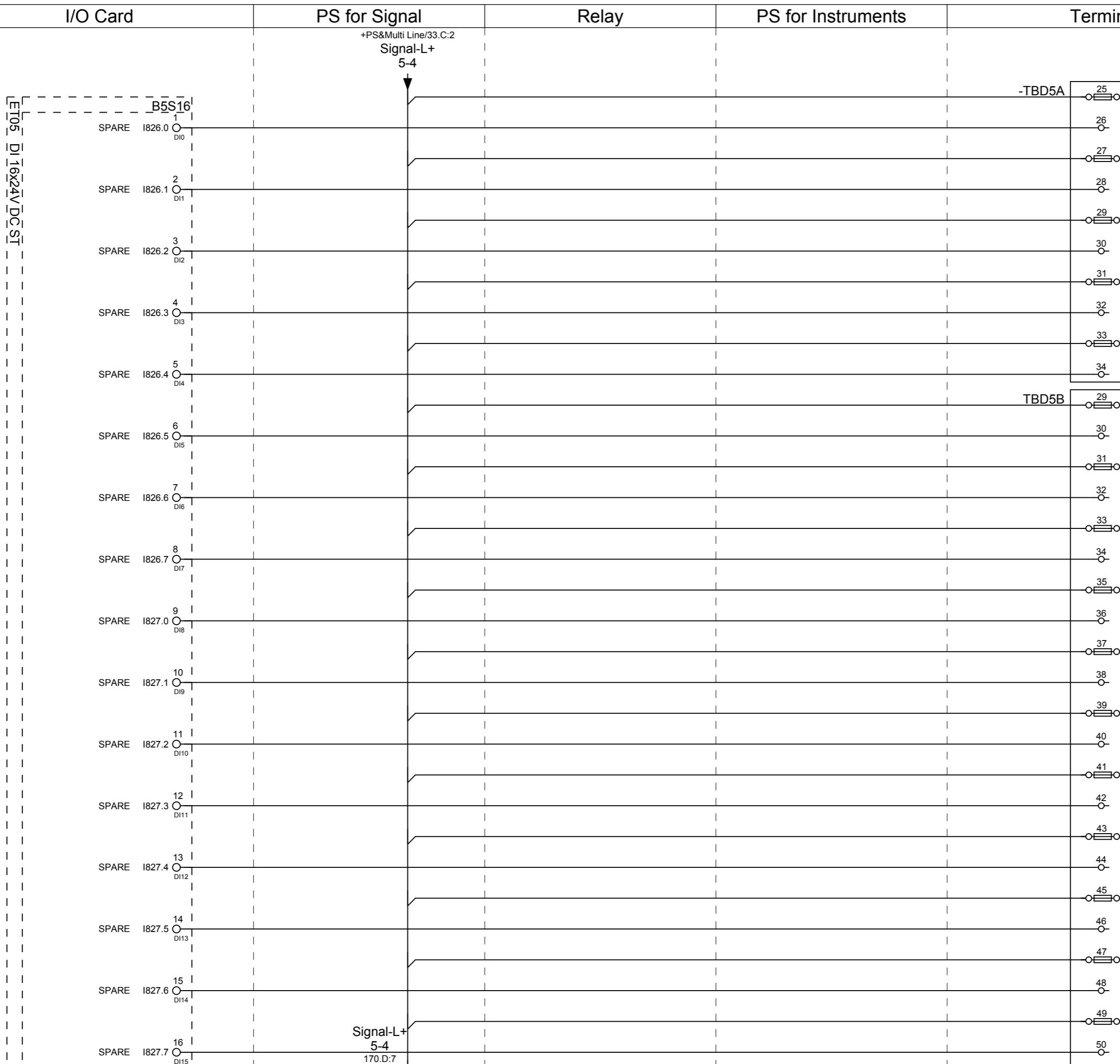
B5S15			
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SCALE	1/1	DWG. NO.	SCADA-08-003
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Scale Plot			
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K File Name: SCADA-08-003			
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## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoi Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.

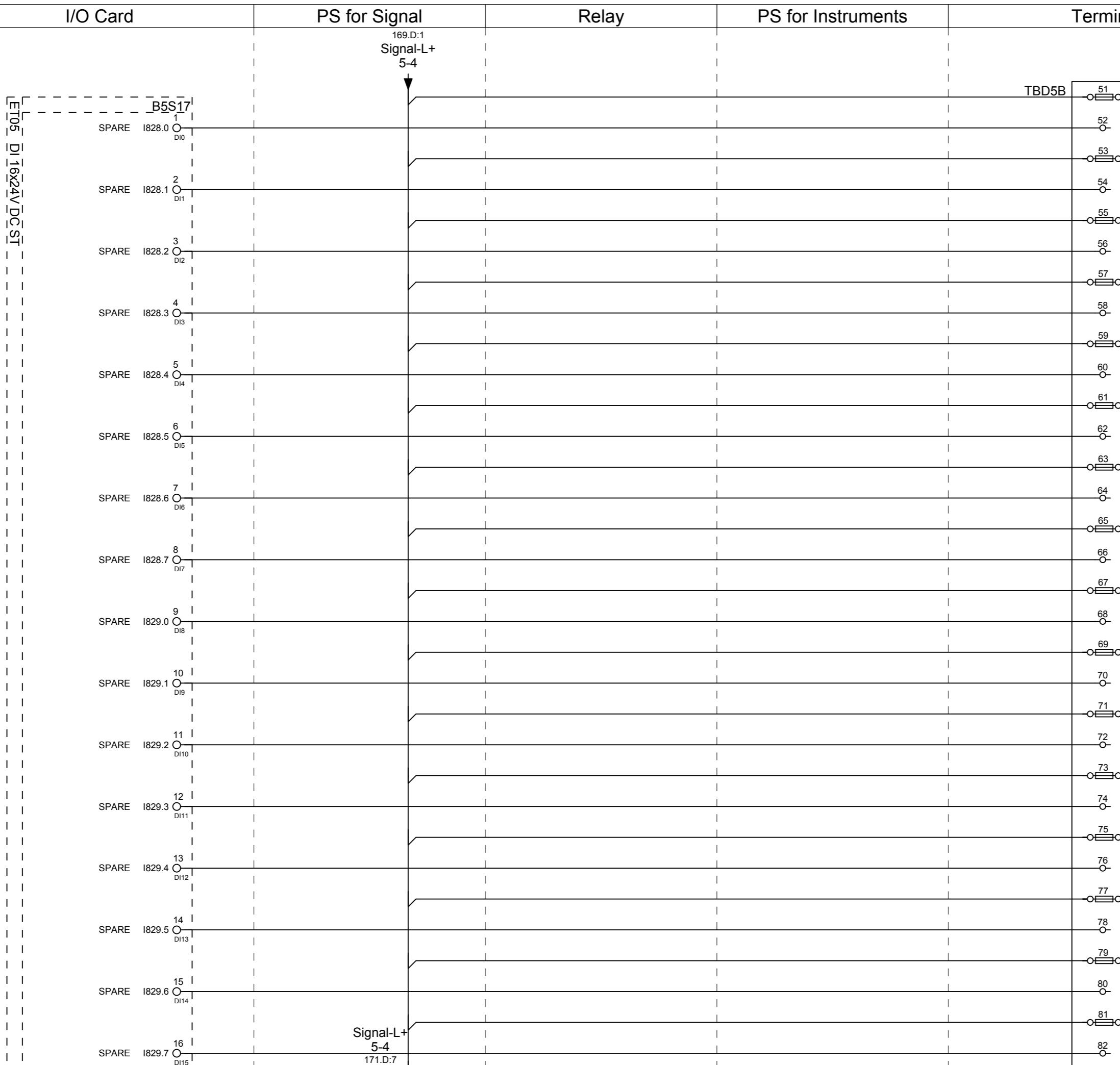
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK A

ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO.,LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S16  
169  
182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S17

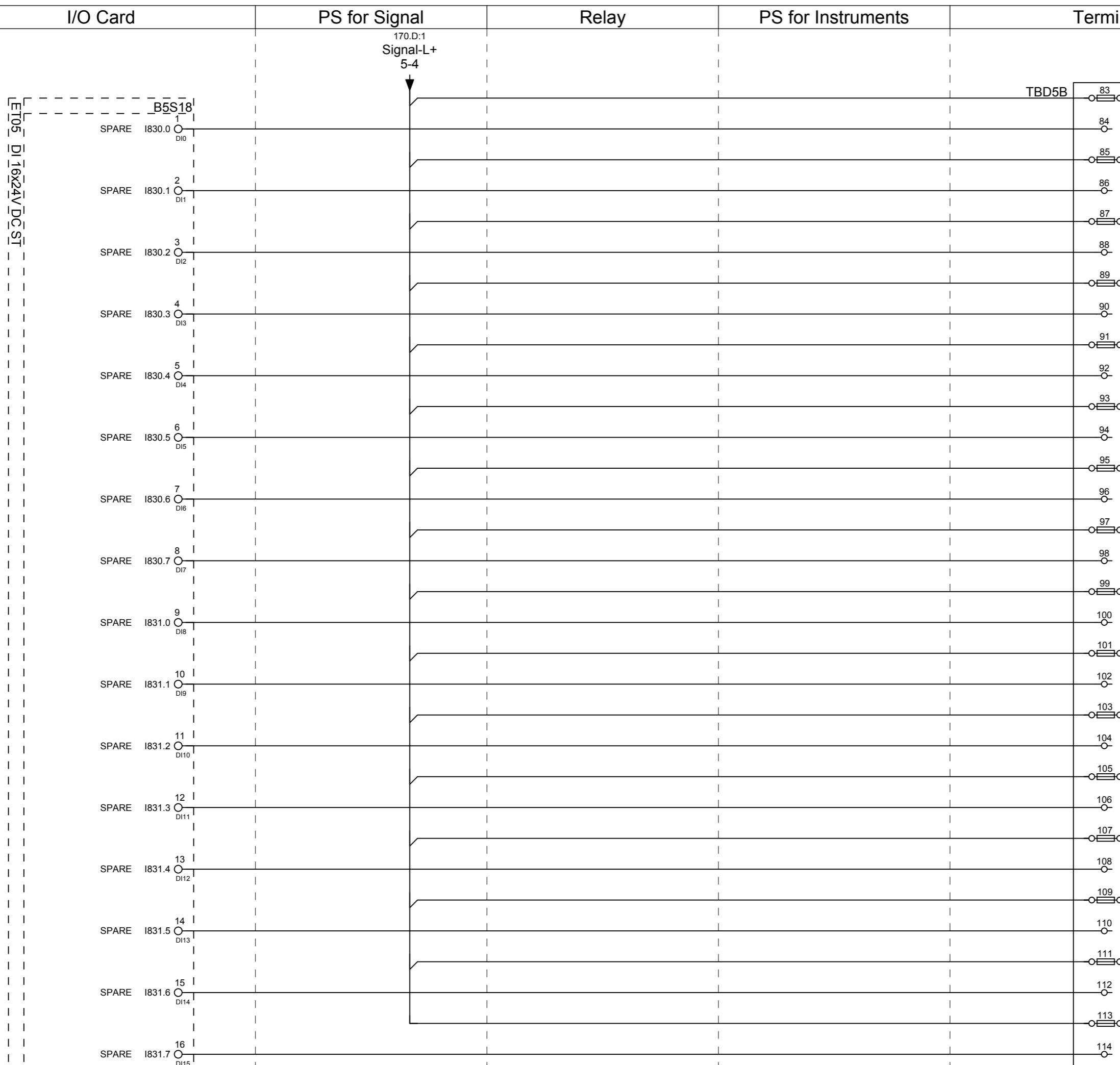
SCALE 1/1 DWG. NO. SCADA-08-003

170  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

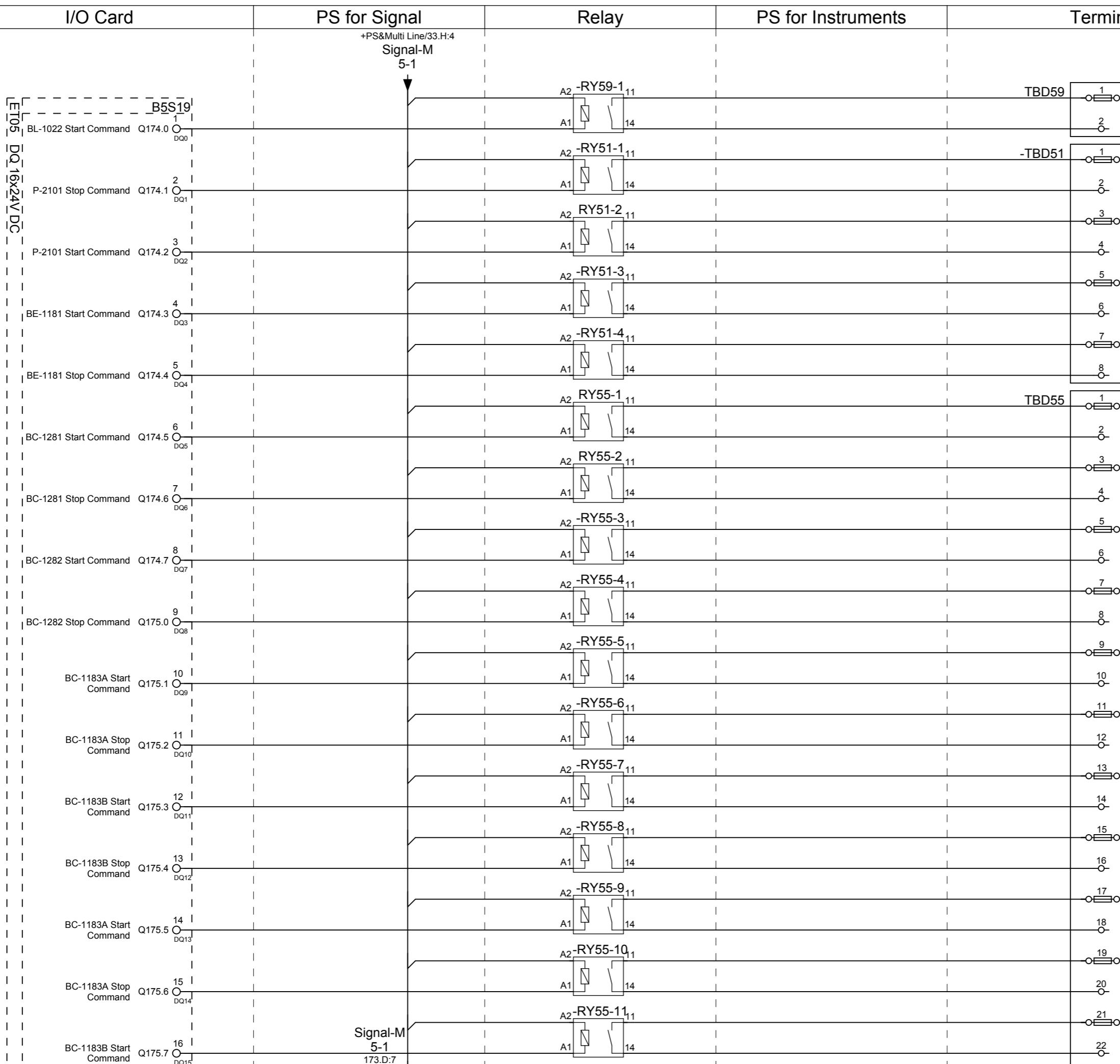
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MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S18  
171 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.Internal Wiring for PLC-MR-04  
B5S19

SCALE 1/1 DWG. NO. SCADA-08-003

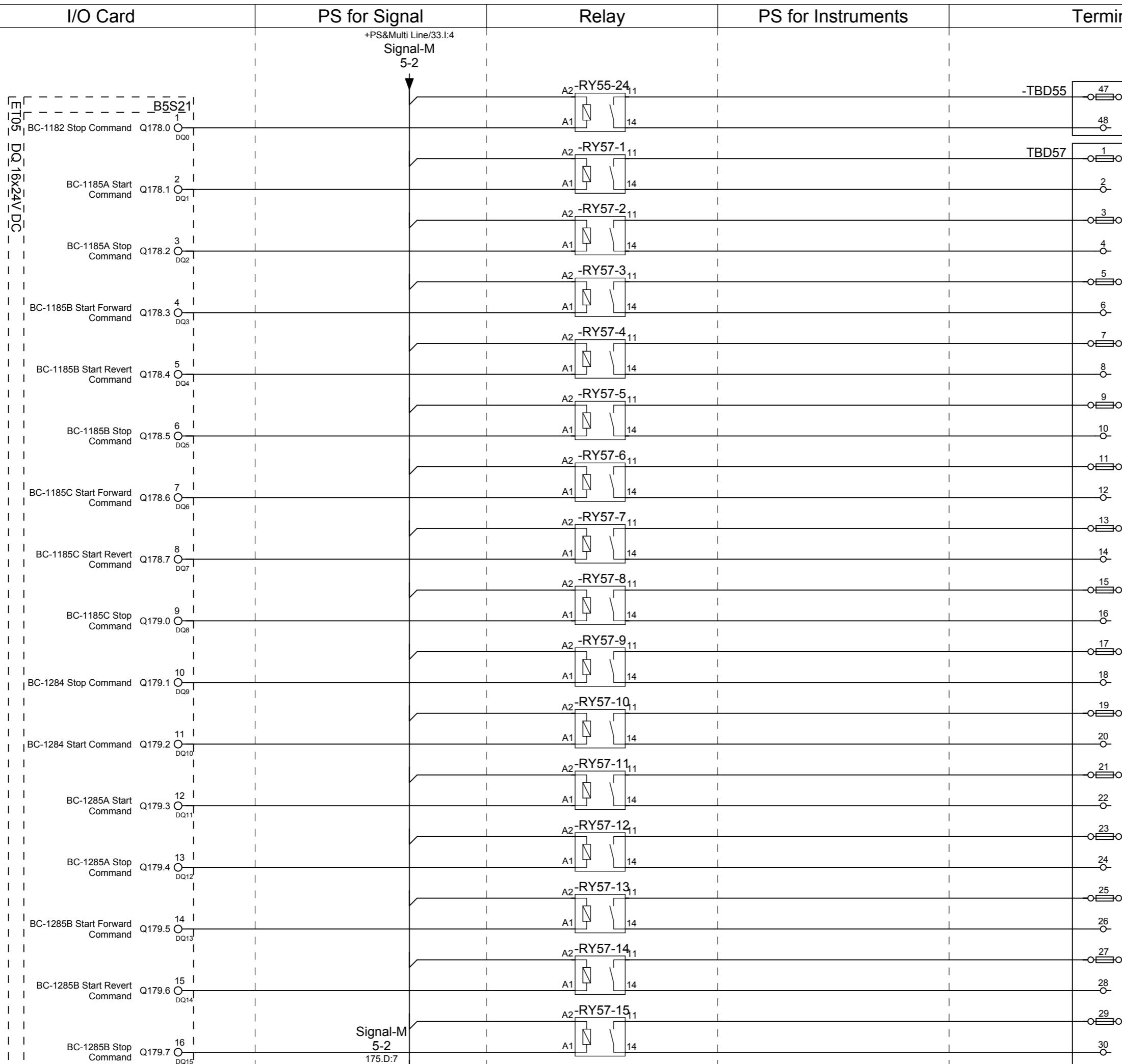
172  
182

Scale Plot

K File Name: SCADA-08-003



## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

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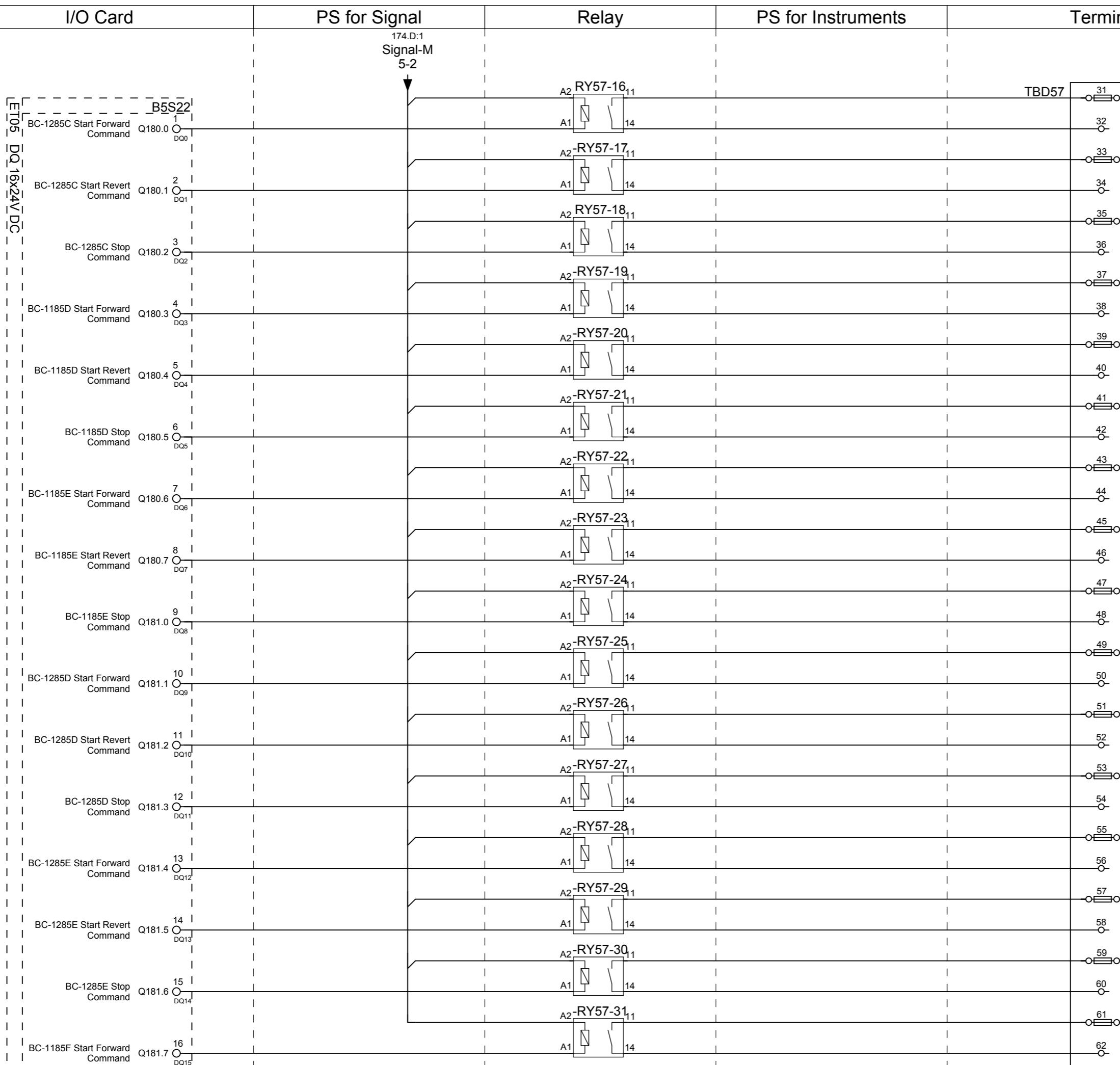
MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City

Internal Wiring for PLC-MR-04  
B5S21  
174 182

SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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PERMITTED IN WRITING BY THE TTCL VIETNAM CORPORATION LTD.MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang CityInternal Wiring for PLC-MR-04  
B5S22

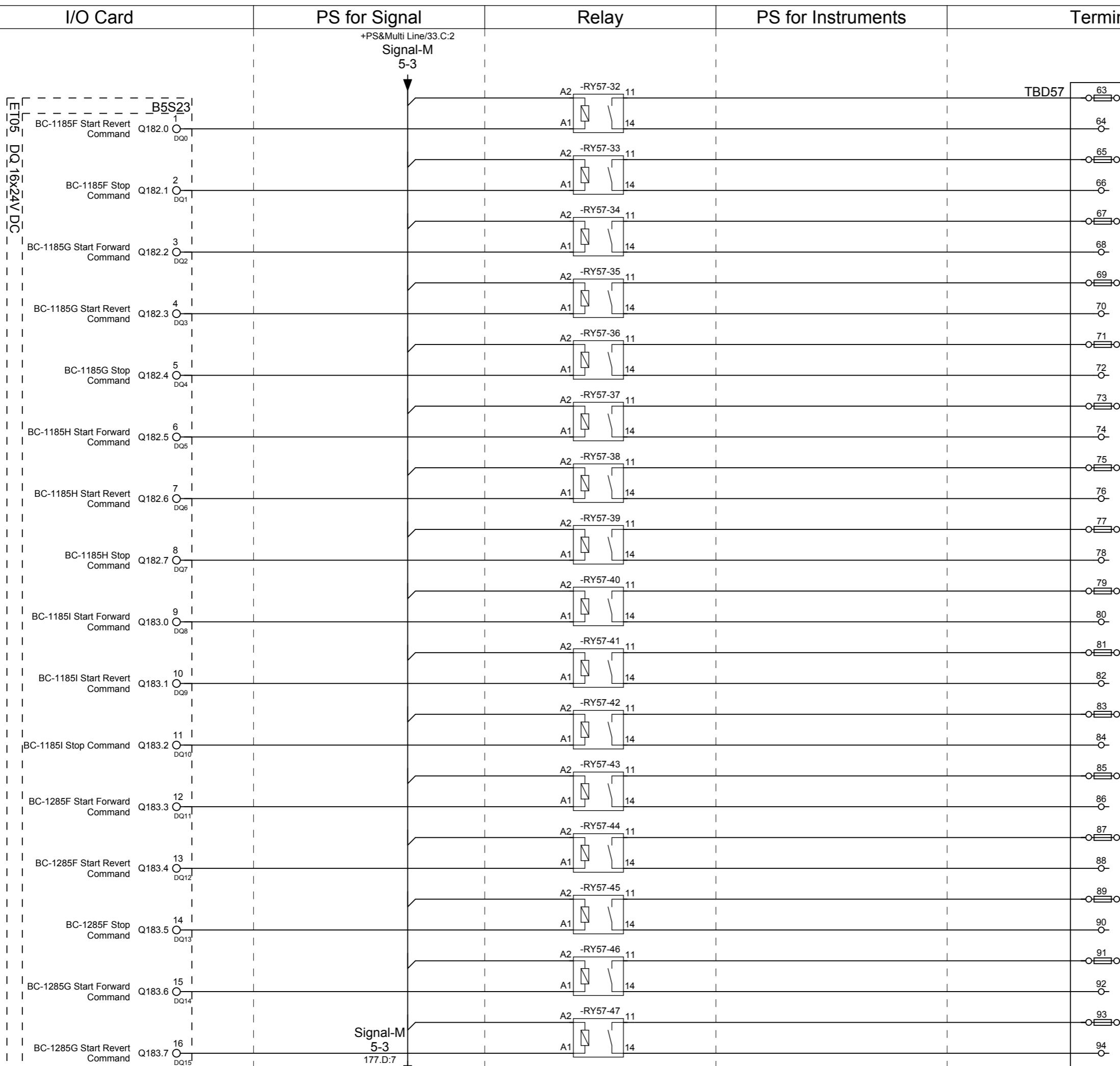
SCALE 1/1 DWG. NO. SCADA-08-003

175  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT  
OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY

Hoai Nhon District, Binh Dinh Province

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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTDHead office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.Internal Wiring for PLC-MR-04  
B5S23

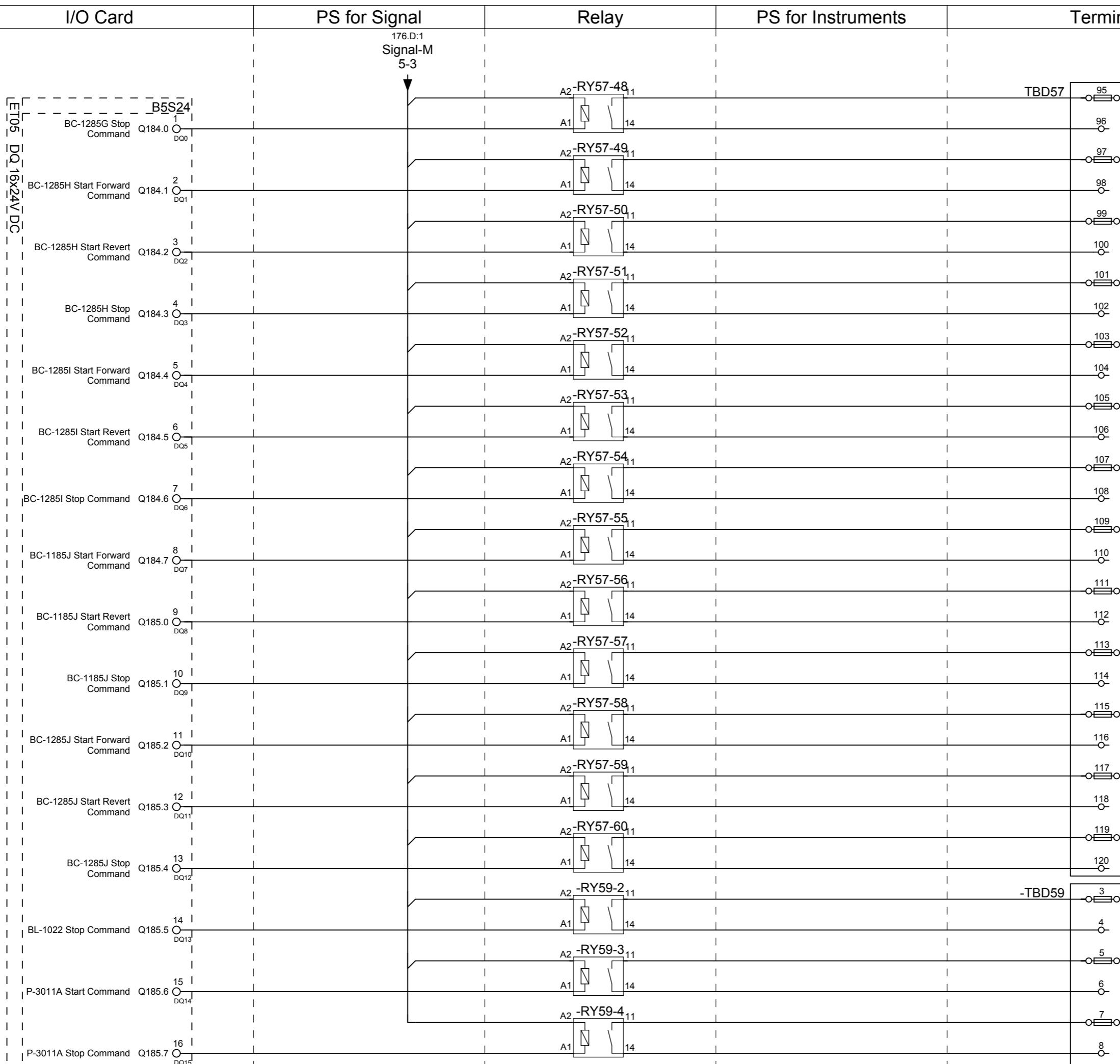
SCALE 1/1 DWG. NO. SCADA-08-003

176  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.		C L	09/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL PLANT CONSTRUCTION PROJECT  
 OWNER: IDEMITSU GREEN ENERGY VIET NAM LIMITED COMPANY  
 Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
 C = CUSTOMER  
 L = LICENSOR  
 F = FIELD  
 V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
 TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
 ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING ELECTRICAL AUTOMATION CO., LTD  
 Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
 Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

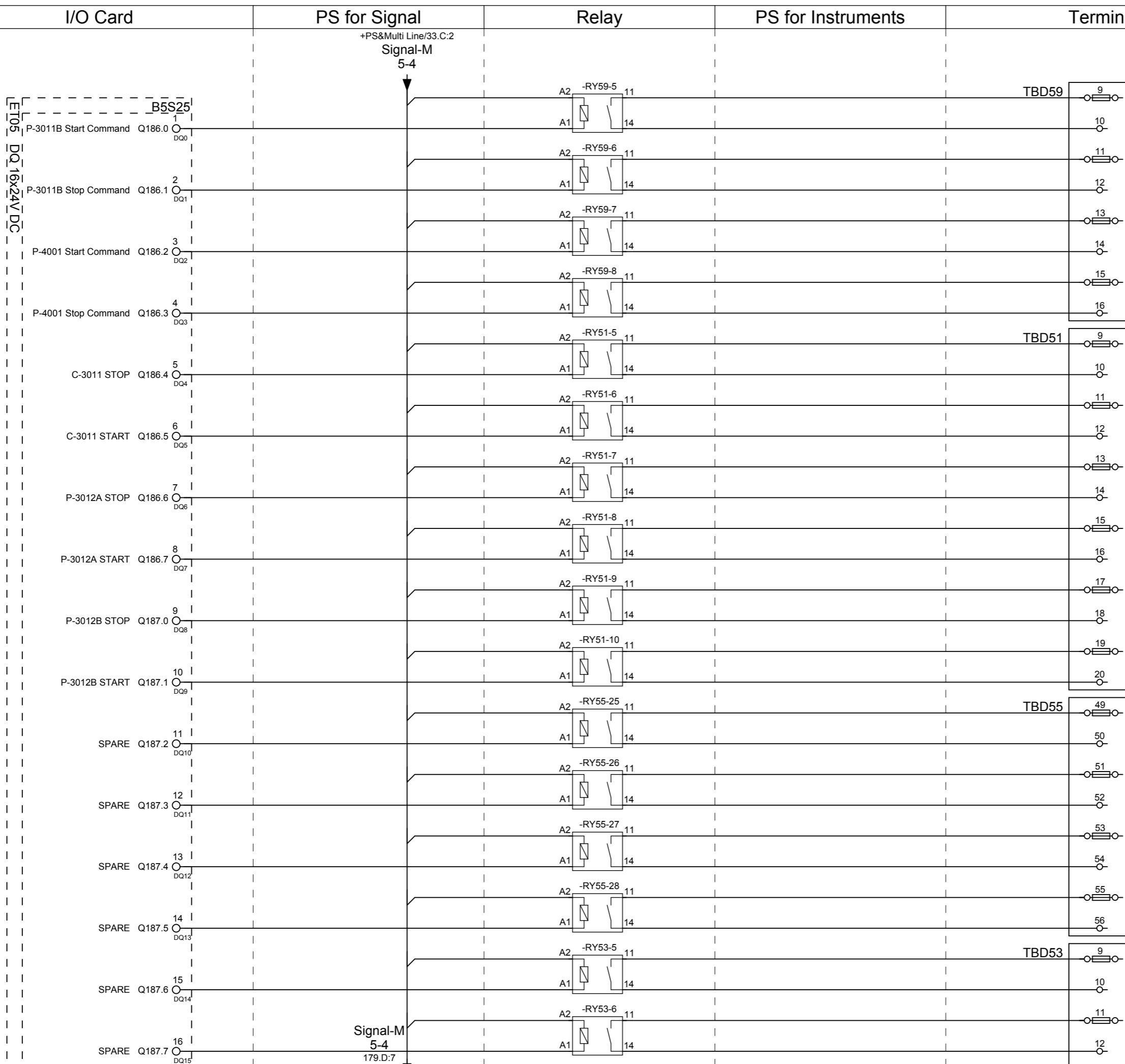
Internal Wiring for PLC-MR-04  
 B5S24

SCALE 1/1 DWG. NO. SCADA-08-003

177  
182

Scale Plot K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

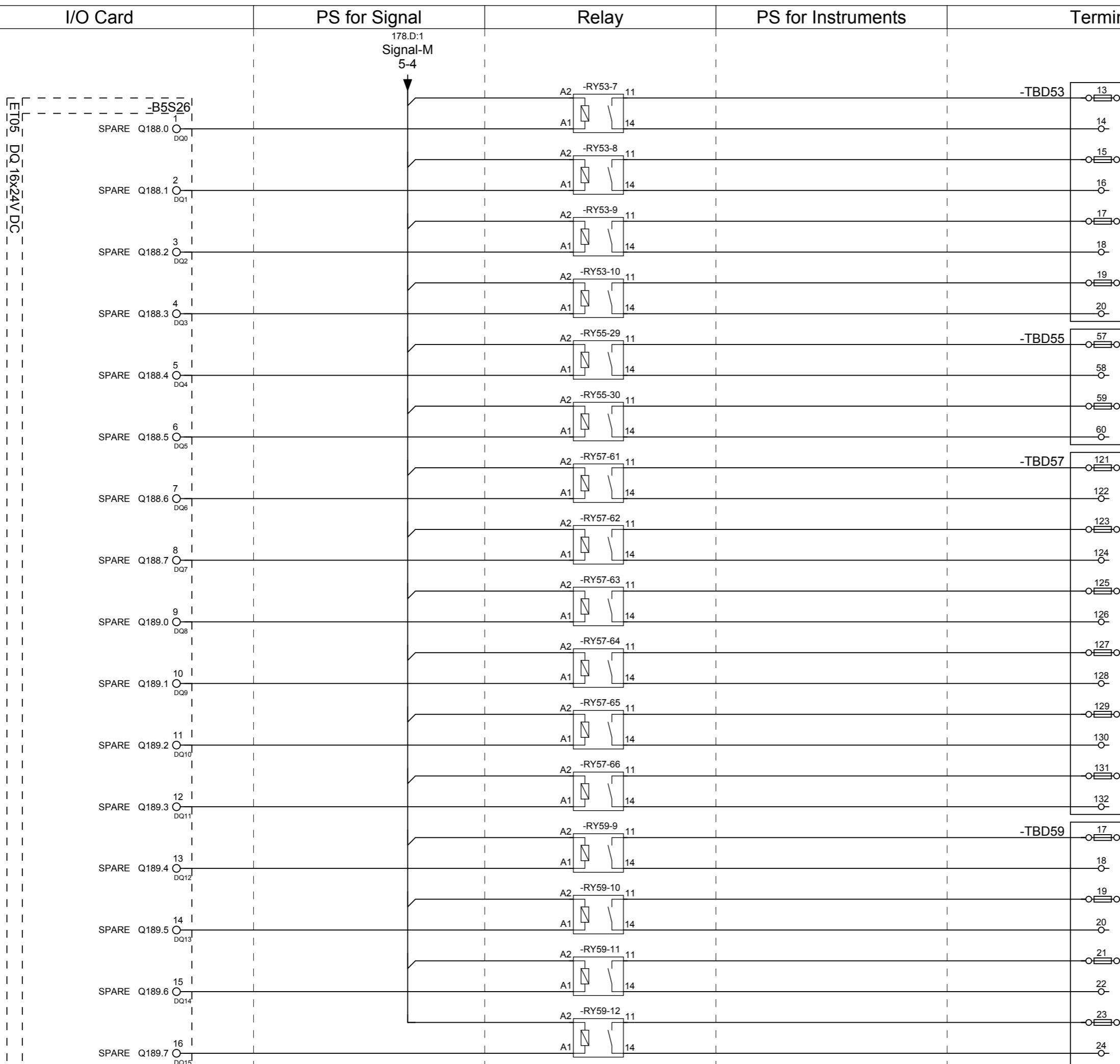
ABBR. FOR ISSUE  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S25  
178 182  
SCALE 1/1 DWG. NO. SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCOMBRES CONFIDENTIAL  
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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ISSUE MARK ASUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang CityInternal Wiring for PLC-MR-04  
B5S26

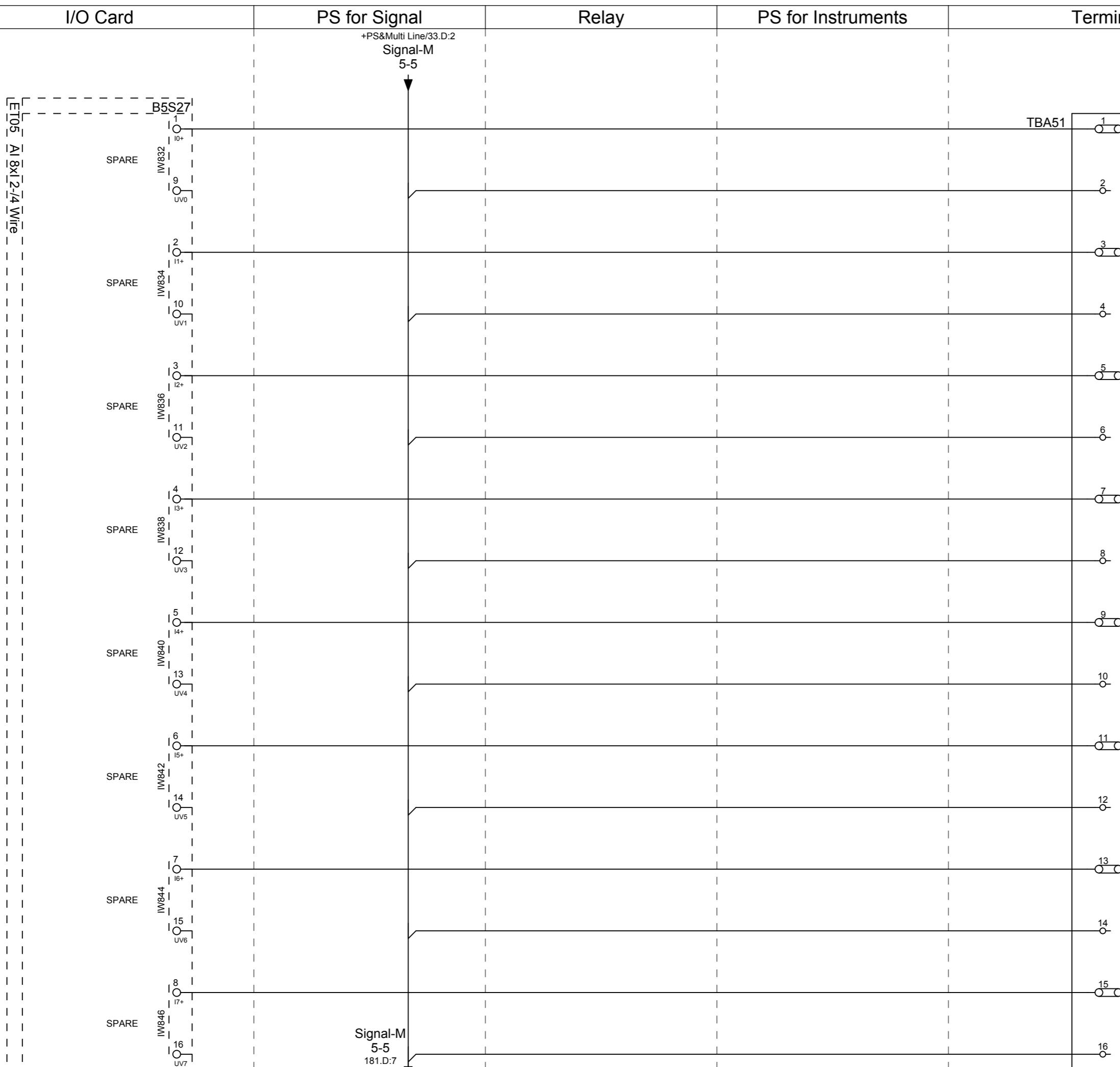
SCALE 1/1 DWG. NO. SCADA-08-003

179  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L.	P.T.V.			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE DD/MM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECTOWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh ProvinceTHIS DRAWING, INCLUDING ANY PATENTED OR PATENTABLE FEATURES, ENCODES CONFIDENTIAL  
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TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
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ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang HighTech Park, Da Nang City.Internal Wiring for PLC-MR-04  
B5S27  
SCALE 1/1 DWG. NO. SCADA-08-003ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDORISSUE MARK  
ATVC  
No.

ACCOUNT

CUSTOMER'S ORDER No.

C

L

F

V

D

E

F

G

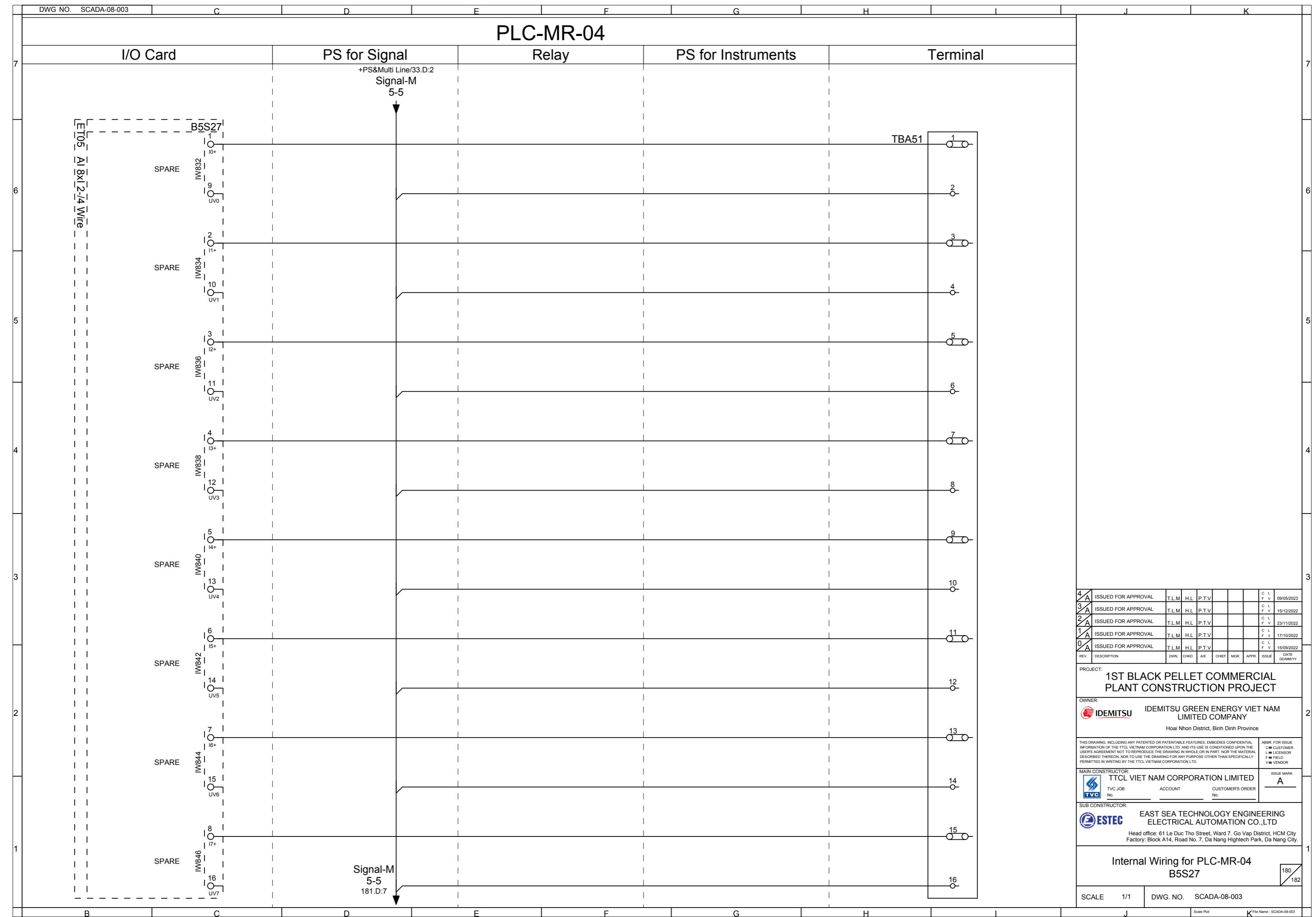
H

I

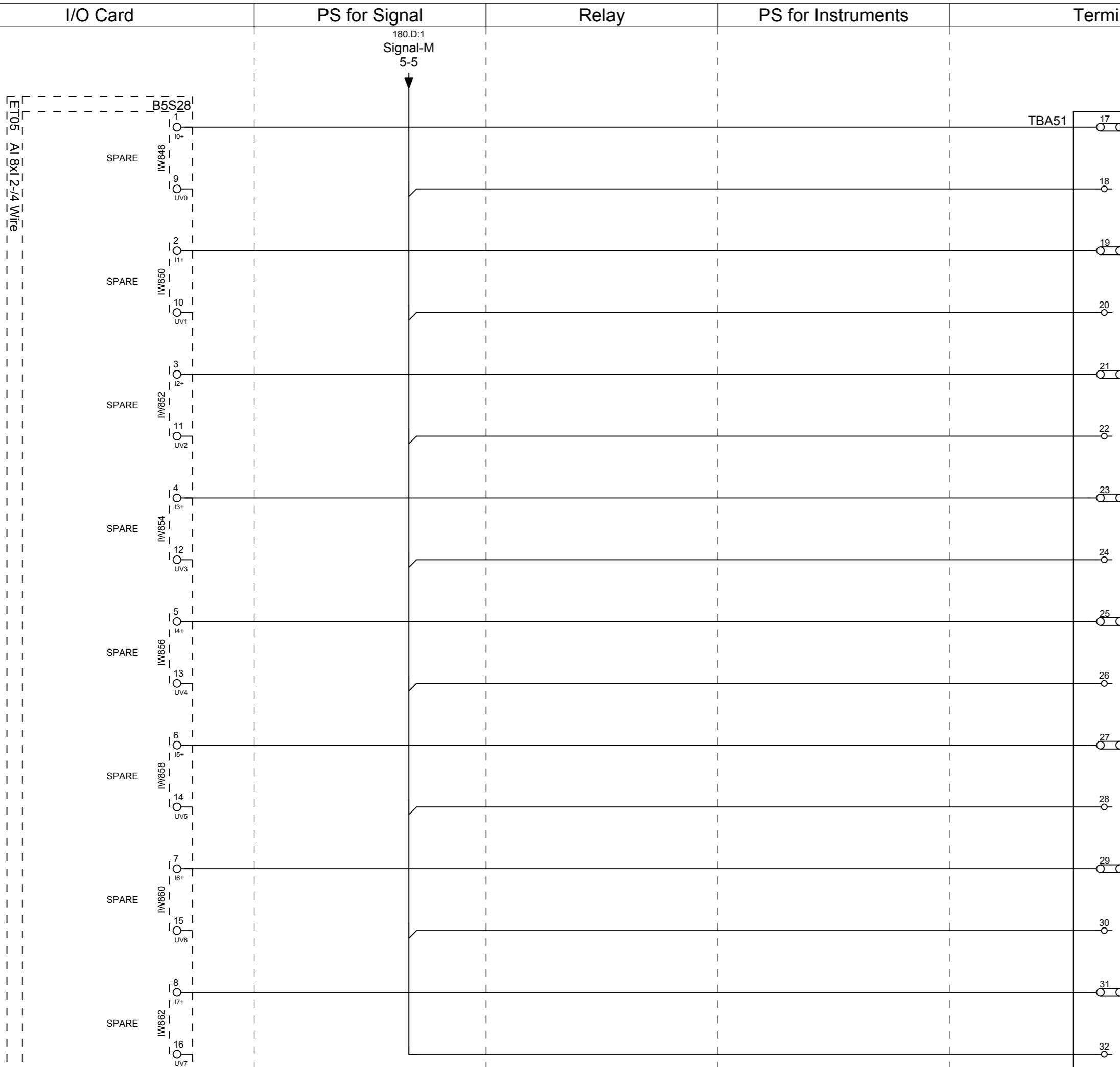
J

K

File Name: SCADA-08-003



## PLC-MR-04



4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
DOMM/YY

PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE  
C ■ CUSTOMER  
L ■ LICENSOR  
F ■ FIELD  
V ■ VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD

Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S28

SCALE 1/1 DWG. NO. SCADA-08-003

181  
182

Scale Plot

K File Name: SCADA-08-003

## PLC-MR-04

I/O Card	PS for Signal	Relay	PS for Instruments	Terminal
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4/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	09/05/2023
3/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/12/2022
2/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	23/11/2022
1/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	17/10/2022
0/A	ISSUED FOR APPROVAL	TLM	H.L	P.T.V			C L	15/09/2022

REV. DESCRIPTION DWN CHKD AE CHIEF MGR APPR. ISSUE DATE  
PROJECT: 1ST BLACK PELLET COMMERCIAL  
PLANT CONSTRUCTION PROJECT

OWNER: IDEMITSU IDEMITSU GREEN ENERGY VIET NAM  
LIMITED COMPANY  
Hoai Nhon District, Binh Dinh Province

ABBR. FOR ISSUE:  
C = CUSTOMER  
L = LICENSOR  
F = FIELD  
V = VENDOR

MAIN CONSTRUCTOR: TTCL VIET NAM CORPORATION LIMITED  
TVC JOB No. ACCOUNT CUSTOMER'S ORDER No.  
ISSUE MARK A

SUB CONSTRUCTOR: ESTEC EAST SEA TECHNOLOGY ENGINEERING  
ELECTRICAL AUTOMATION CO., LTD  
Head office: 61 Le Duc Tho Street, Ward 7, Go Vap District, HCM City  
Factory: Block A14, Road No. 7, Da Nang Hightech Park, Da Nang City.

Internal Wiring for PLC-MR-04  
B5S29

182  
182

SCALE 1/1 DWG. NO. SCADA-08-003