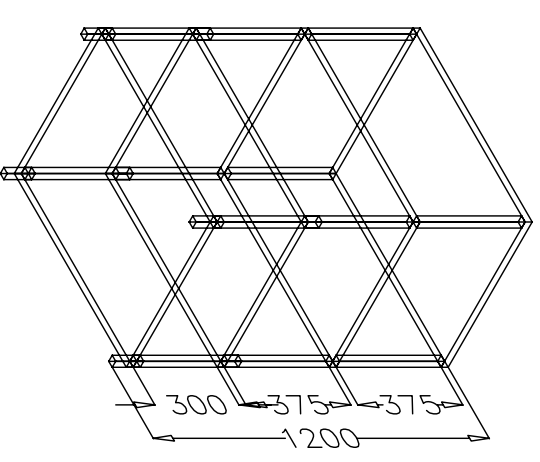
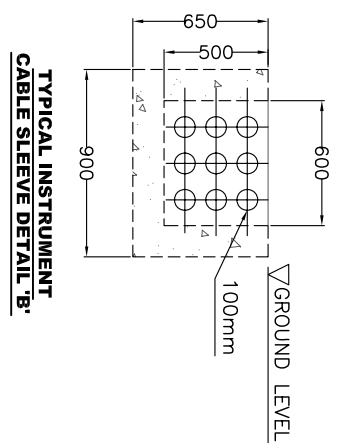
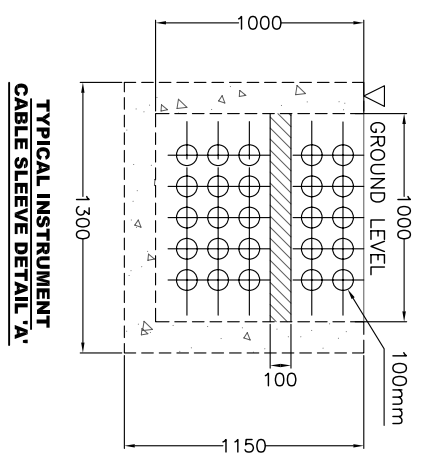
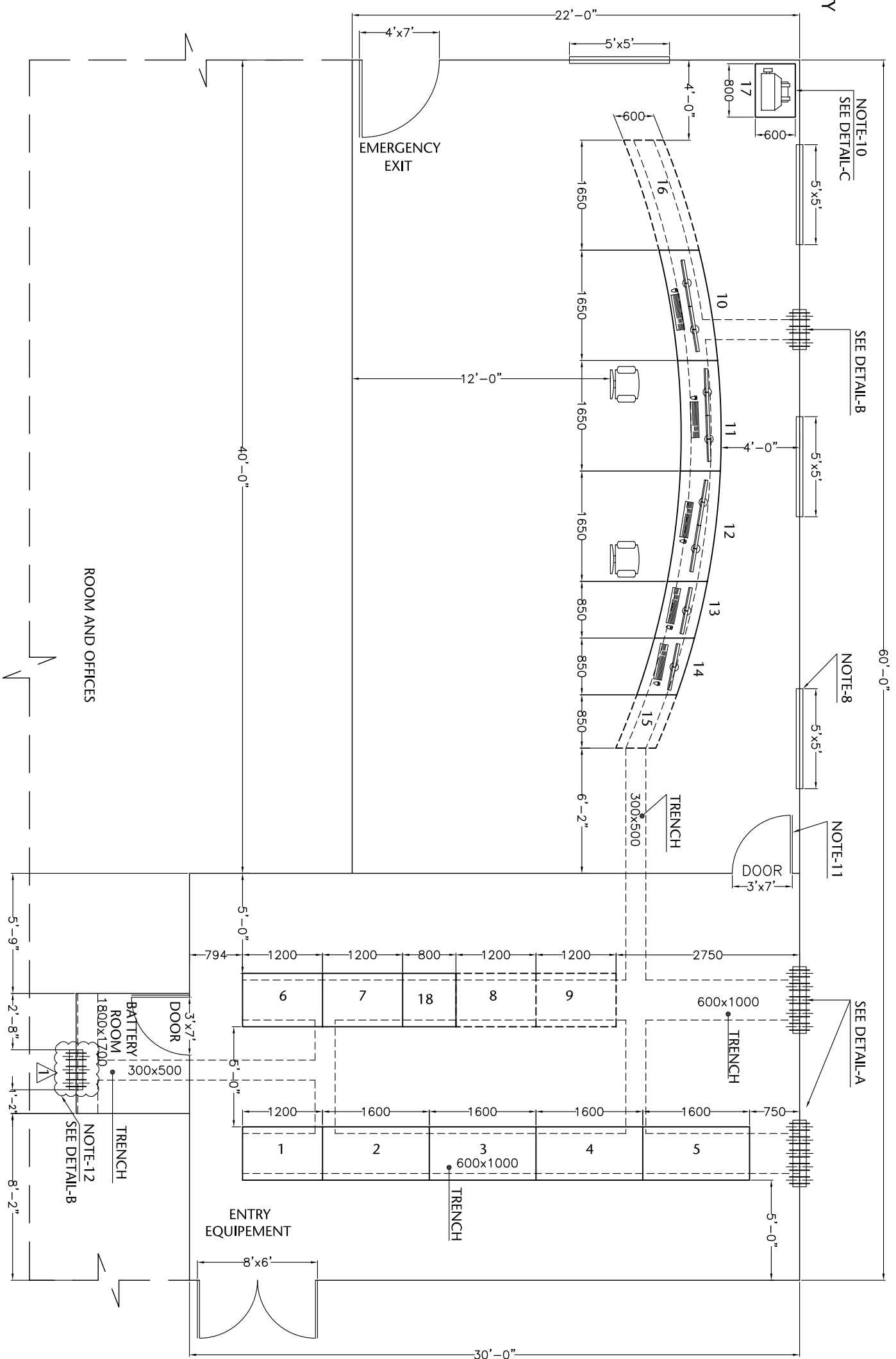


PLANT FACILITY



SR No.	DESCRIPTION
1	DCS SERVER & SWITCHES PANEL
2	DCS PANEL -1
3	DCS PANEL -2
4	DCS PANEL -3
5	DCS PANEL -4
6	F & G PANEL (NEW)
7	METERING PANEL
8	FUTURE PANEL
9	FUTURE PANEL
10	DCS EWS
11	DCS OWS
12	DCS OWS
13	NEW SRU ESD ENGINEERING WORKSTATION
14	OPC WORKSTATION
15	FUTURE WORKSTATION
16	FUTURE WORKSTATION
17	VERTICAL PRINTER RACK (A3, A4, DOT-MATRIX)
18	UPS PANEL

NOTES:-

- 1- DIMENSIONS OF PANELS AND EWS/OWS CONSOLES ARE TAKEN FROM PREVIOUS PROJECTS PANELS OFFERED BY ABB, ROCKWELL & DELTA-V.
- 2- CONTROL ROOM SHALL BE INCORPORATED WITH HVAC SYSTEM TO MEET POSITIVE PRESSURE REQUIREMENT.
- 3- SPACE OF 12' IS PROVIDED FOR OPERATOR MOVEMENT AND RELAXING.
- 4- SPACE OF 1200mm IS PROVIDED TO WORK ON CONSOLES FROM REAR SIDE.
- 5- SPACE OF 1500mm IS PROVIDED TO WORK ON PANELS FROM EITHER SIDE (FRONT / REAR) AND PERSON CAN EASILY PASS WITH PANEL DOORS OPEN.
- 6- DISTANCES MENTIONED ARE INTERNAL DIMENSIONS OF CONTROL ROOM.
- 7- PER SHIFT 02 OPERATORS ARE CONSIDERED FOR SELECTING NUMBER OF CONSOLES.
- 8- BLAST PROOF WINDOWS 04 Nos.
- 9- GAS DETECTOR & SUPPRESSION (INERGENT) SYSTEM WILL BE INSTALLED IN CONTROL ROOM.
- 10- ALL THREE (03) PRINTERS SHALL BE PLACED / STOCKED IN SINGLE RACK TYPE CONSOLES.
- 11- GLASS DOOR.
- 12- CABLE ENTRY FOR POWER CABLE.

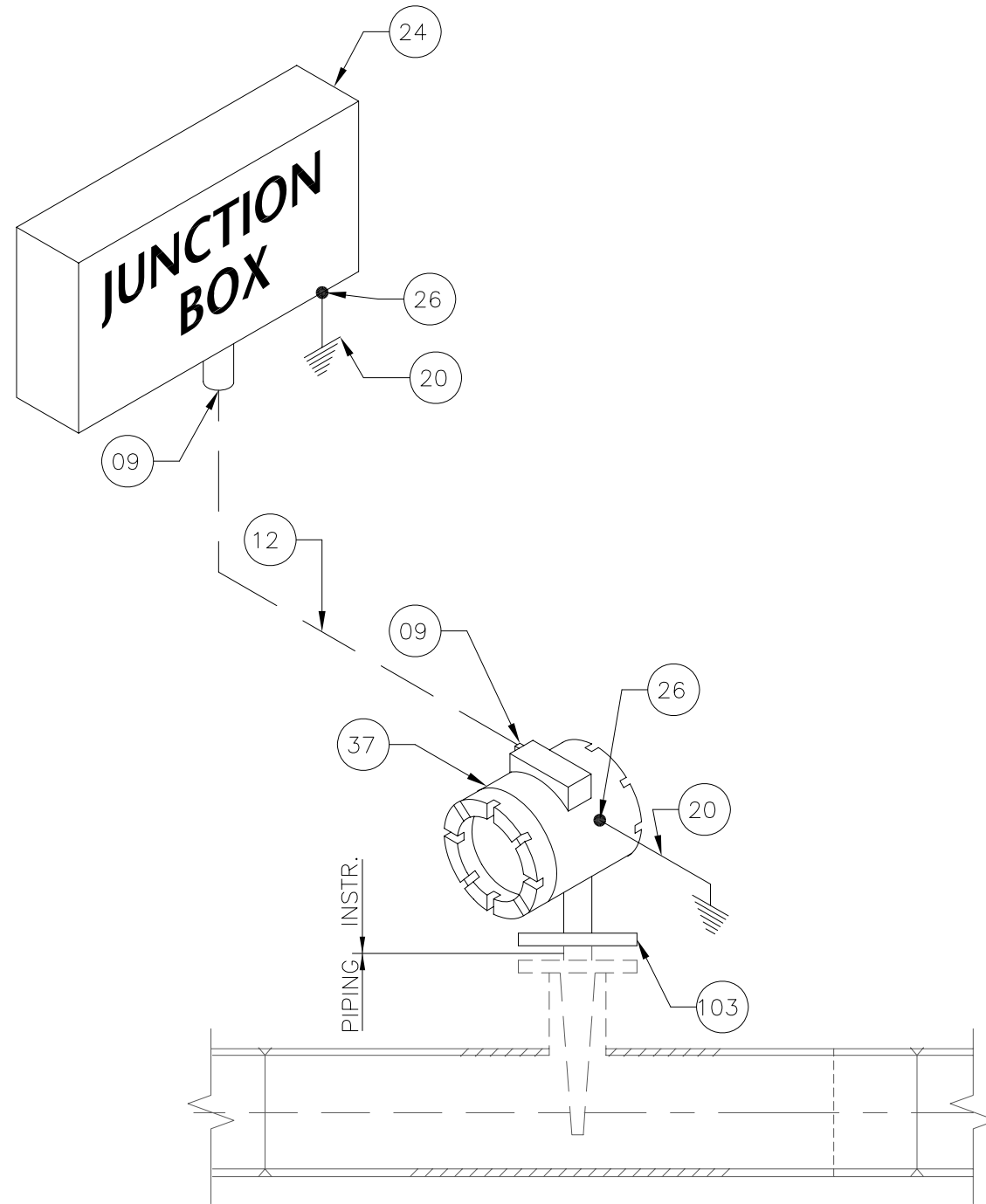
ISSUED FOR CONSTRUCTION

REV.	DATE	DESCRIPTION OF REVISION	DESIGNED	CHECKED	APPR.
2	14-04-2015	ISSUED FOR CONSTRUCTION	JMD	WAS	NAS
1	31-03-2015	CLIENT COMMENTS INCORPORATED	JMD	WAS	NAS
0	24-02-2015	ISSUED FOR BID	JMD	WAS	NAS
B	23-02-2015	RE-ISSUED FOR REVIEW AND APPROVAL	JMD	WAS	NAS
A	04-02-2015	ISSUED FOR REVIEW AND APPROVAL	JMD	WAS	NAS

ENAR PETROTECH SERVICES (PRIVATE) LIMITED
 Dwg. No. 14-0162

DAKHINI NEW DCS & CCR PROJECT
 CONTROL ROOM EQUIPMENT LAYOUT
 0162-ILT-6201

COMPUTER CODE 0162-ILT-6201-2
 SHEET SIZE A3
 SCALE N.T.S
 REVISIONS
 DATE: 14-04-2015



MATERIAL FOR INSTALLATION

S.No	DESCRIPTION	QTY
09	EExd/e IIC CABLE GLAND WITH BLACK SHROUD M20x1.5mm ²	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
24	JUNCTION BOX	-
103	316 SS THERMOWELL ANSI FLANGE	01 Nos
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	5 Mtr.
26	EARTHING LUGS FOR 4mm ² CABLE	02 Nos
37	TEMPERATURE TRANSMITTER	01 Nos

APPLICABLE TAG NO.

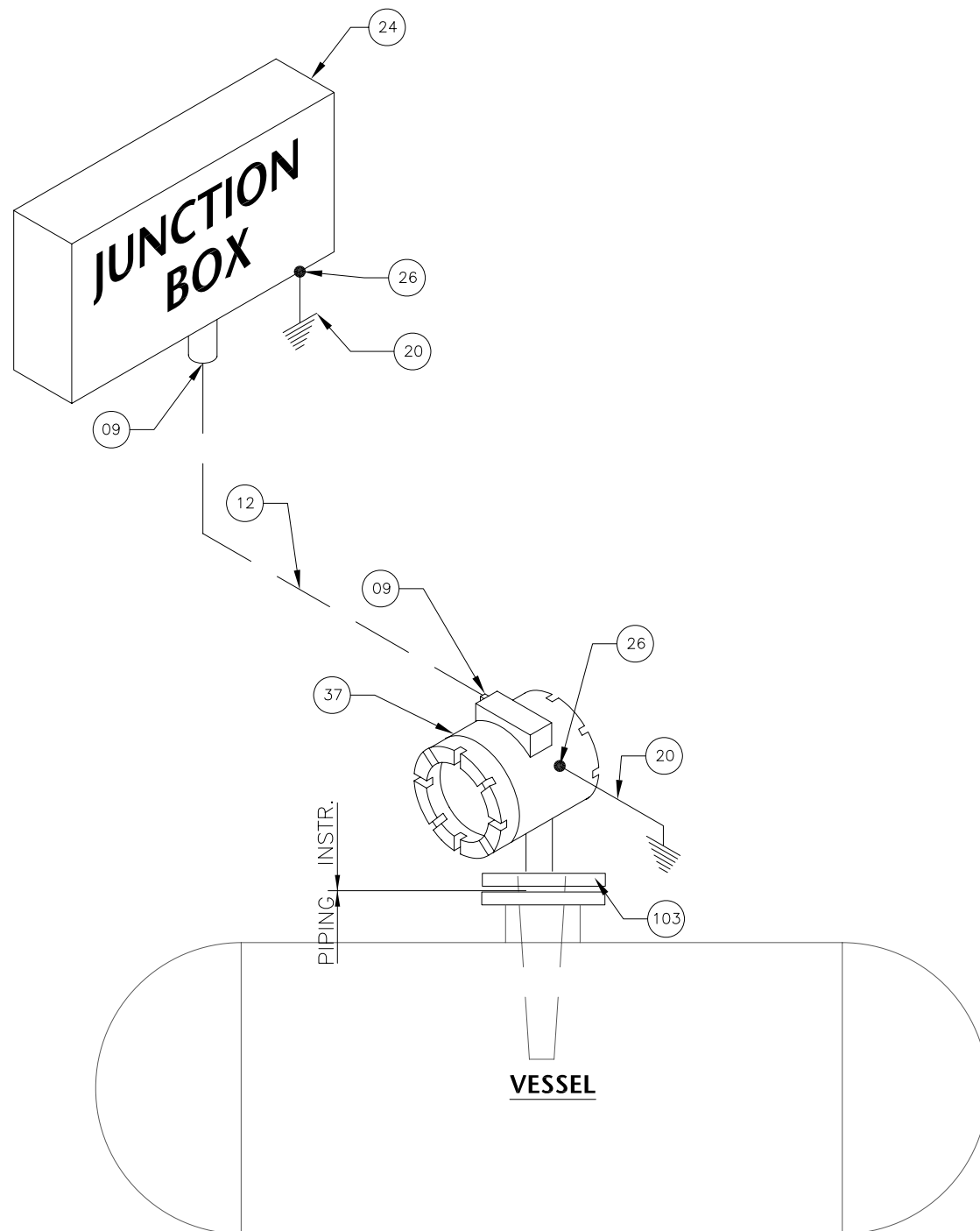
S.NO.	TAGS	P & ID Nos.
1	40-TT-15	E-3588-4005B-D2
2	801-TT-15	2310-PB-2116
3	801-TT-16	2310-PB-2116
4	60-TT-029	2310-PB-2111
5	TT-7-1	0180-A1-13
6	TT-7-2	0180-A1-13
7	TT-7-7	0180-A1-13
8	TT-7-11	0180-A1-14
9	TT-715	0180-A1-15
10	120-TT-01	2310-PB-2052 (SH 1 OF 2)
11	120-TT-02	2310-PB-2052 (SH 1 OF 2)
12	120-TT-03	2310-PB-2052 (SH 1 OF 2)
13	120-TT-04	2310-PB-2052 (SH 1 OF 2)
14	120-TT-05	2310-PB-2052 (SH 1 OF 2)
15	120-TT-06	2310-PB-2052 (SH 1 OF 2)
16	50-TT-01	E-3588-50005A (SH 1 OF 3)

NOTES:-

1. THIS DRAWING IS APPLICABLE FOR LINE SIZES GREATER/ EQUAL TO 4"
2. NUTS, BOLTS GASKET, ISOLATION VALVES, VENT / DRAIN SHALL BE PROVIDED BY PIPING.
3. ALL DIMENSION ARE IN MM UNLESS OTHER WISE STATED..
4. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162 Dwg. No. 0162-IMB-6320 SHEET- 1 OF 3			
OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			<small>COMPUTER CODE</small> 0162-IMB-6320-0 <small>SHEET SIZE</small> A4 <small>SCALE</small> 1:1 <small>REPLACES DWG. NO.</small>			
<small>TITLE:</small> TYPICAL HOOK-UP DIAGRAM FOR TEMPERATURE TRANSMITTER FOR LINE SIZES GREATER THAN EQUAL TO 4"			<small>THIS DOCUMENT IS THE PROPERTY OF ENAR & THE CONTENTS MUST BE TREATED AS CONFIDENTIAL</small>			



MATERIAL FOR INSTALLATION

S.No	DESCRIPTION	QTY
09	EExd/e IIC CABLE GLAND WITH BLACK SHROUD M20x1.5mm ²	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
24	JUNCTION BOX	-
103	316 SS THERMOWELL ANSI FLANGE	01 Nos
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	5 Mtr.
26	EARTHING LUGS FOR 4mm ² CABLE	02 Nos
37	TEMPERATURE TRANSMITTER	01 Nos

APPLICABLE TAG NO.

S.NO.	TAGS	P & ID Nos.
1	830-TT-05	2310-PB-2075
2	830-TT-06	2310-PB-2075
3	TT-05	0180-A1-12
4	TT-14	0180-A1-18
5	TT-15	0180-A1-18
6	60-TT-01	E-3588-60005A-D1
7	60-TT-02	E-3588-60005B-D1
8	60-TT-03	E-3588-60005C-D1
9	60-TT-25	E-3588-60005D-D1

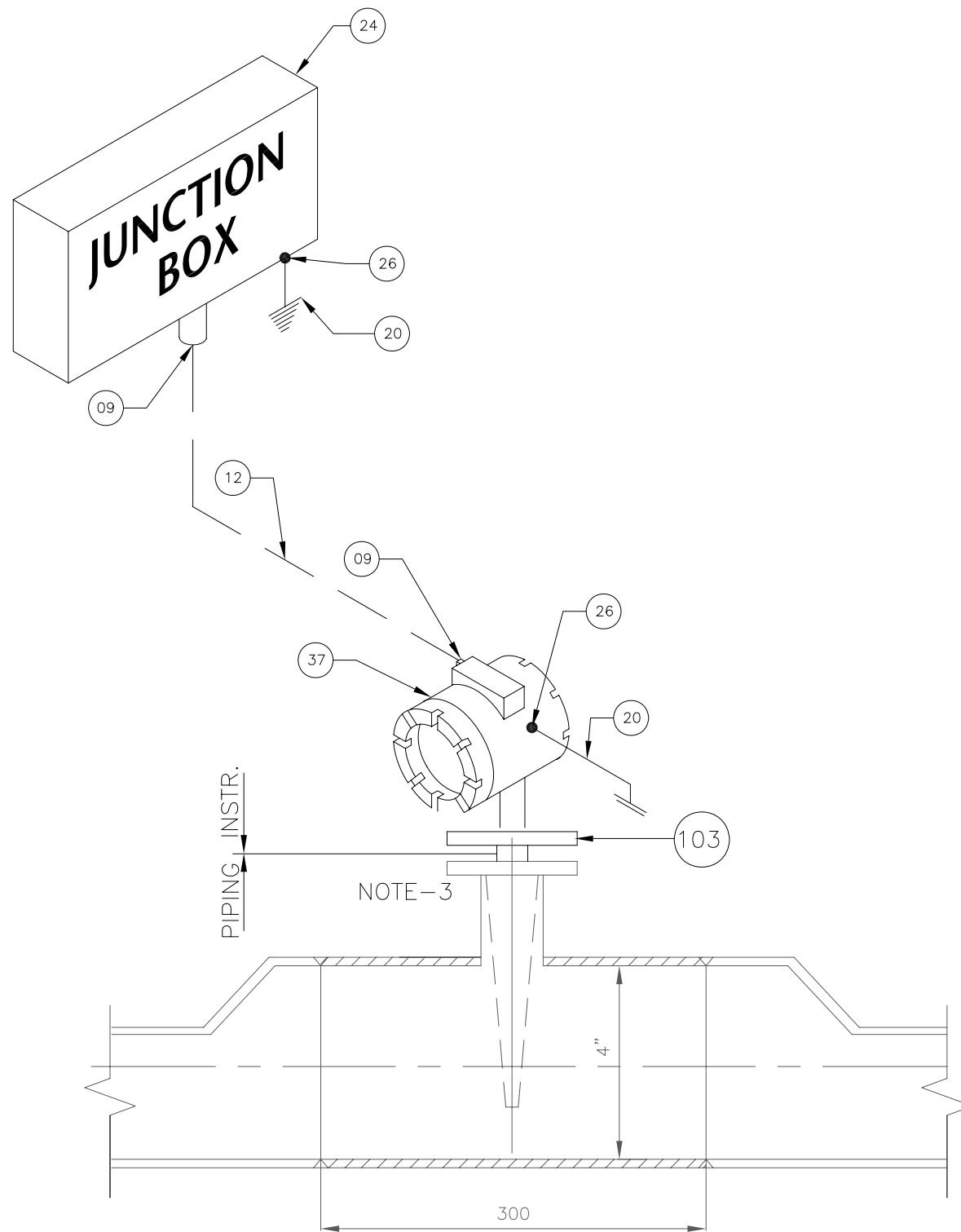
NOTES:-

- 1- NUTS, BOLTS AND GASKET REQUIRED FOR MOUNTING TEMPERATURE INDICATOR SHALL BE PROVIDED BY PIPING.
- 2- PIPING SHALL PROVIDE SUITABLE ANSI FLANGE WITH MIN 150mm PROJECTION.
- 3- ALL DIMENSIONS ARE IN MM UNLESS OTHER WISE STATED.
- 4- INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

<p>ENAR A COMPANY OF</p>	<p>ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</p>	Job No. 14-0162
		Dwg. No. 0162-IMB-6320 SHEET:- 2 OF 3
<p>OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT</p>		COMPUTER CODE 0162-IMB-6320-0
<p>TITLE: TYPICAL HOOKUP DIAGRAM OF TEMPERATURE TRANSMITTER FOR VESSEL INSTALLATION</p>		SHEET SIZE A4
		SCALE 1:1
		REPLACES DWG. NO.



MATERIAL FOR INSTALLATION

S.No	DESCRIPTION	QTY
09	EExd/e IIC CABLE GLAND WITH BLACK SHROUD M20x1.5mm ²	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
24	JUNCTION BOX	-
103	316 SS THERMOWELL ANSI FLANGE	01 Nos
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	5 Mtr.
26	EARTHING LUGS FOR 4mm ² CABLE	02 Nos
37	TEMPERATURE TRANSMITTER	01 Nos

APPLICABLE TAG NO.

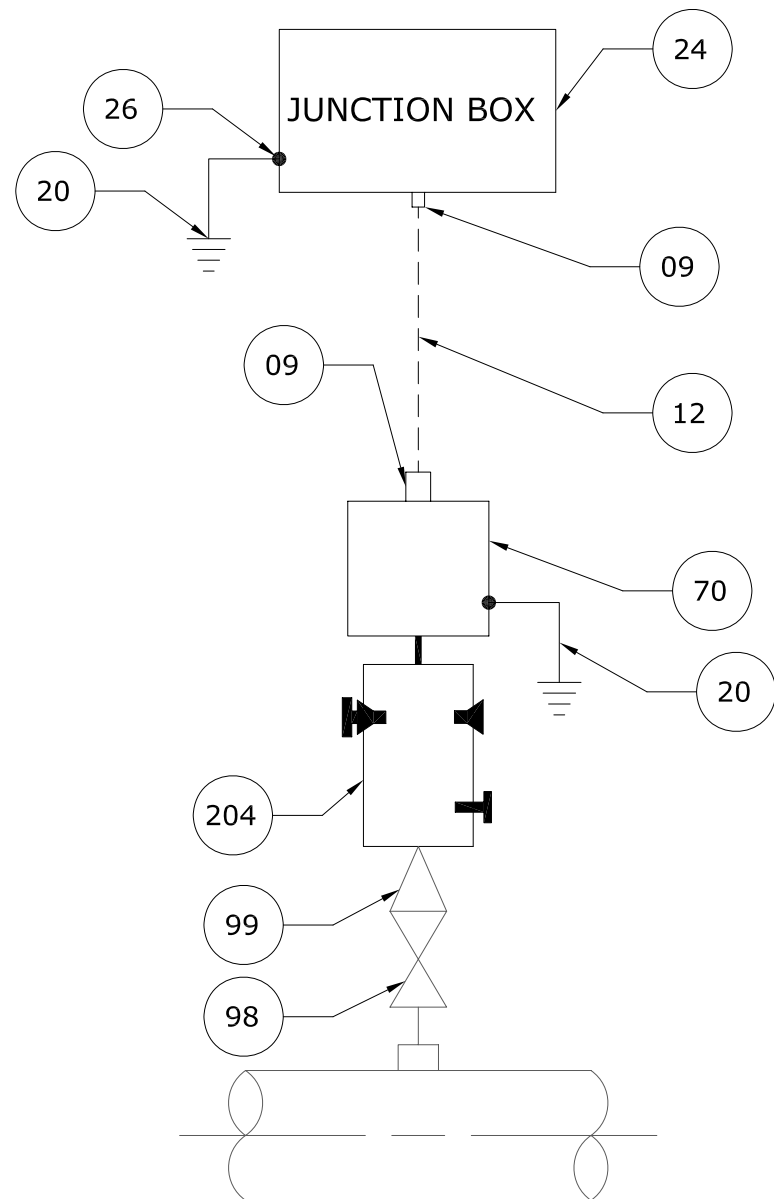
S.NO.	TAGS	P & ID No
1	30-TT-01	E-3588-30005A
2	30-TT-02	E-3588-30005A
3	60-TT-028	2310-PB-2111
4	TT-7-17	0180-A1-16
5	60-TT-13	E-3588-60005B-D1
6	60-TT-23	E-3588-60005D-D1
7	60-TT-24	E-3588-60005D-D1
8	60-TT-26	E-3588-60005D-D1

NOTES:-

1. NUTS, BOLTS AND GASKET REQUIRED FOR MOUNTING TEMPERATURE INDICATOR SHALL BE PROVIDED BY PIPING.
2. ALL DIMENSIONS ARE IN MM UNLESS OTHER WISE STATED.
3. PIPING SHALL PROVIDE SIUTABLE ANSI FLANGE WITH 150mm PROJECTION FOR UNINSULATED LINES & 175mm PROJECTION FOR INSULATED LINES.
4. THIS DRAWING IS APPLICABLE FOR LINE SIZES EQUAL OR LESS THAN 4".
5. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY..

ISSUED FOR REVIEW AND APPROVAL

0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162 Dwg. No. 0102-IMB-6320 (SHEET:- 3 of 3)			
OIL & GAS DEVELOPMENT COMPANY LTD DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE 0162-IMB-6320-0 SHEET SIZE A4 SCALE N.T.S REPLACES DWG. NO. -			
TITLE: TYPICAL HOOK-UP DIAGRAM FOR TEMPERATURE GAUGE FOR LINE SIZES EQUAL OR LESS THAN 4"			THIS DOCUMENT IS THE PROPERTY OF ENAR & THE CONTENTS MUST BE TREATED AS CONFIDENTIAL			



MATERIAL FOR INSTALLATION

S.No	DESCRIPTION	QTY
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD M20 x 1.5mm ²	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm *	-
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	5 Mtr
70	PRESSURE SWITCH	1 Nos
204	2-VALVE MANIFOLD 316 STANLESS STEEL 1/2" NPTF	01 No
24	EExd/e JUNCTION BOX	-
26	EARTHING LUGS	02 No
98	3/4" NPTF ISOLATION VALVE	01 No
99	3/4" x 1/2" NPTF SWAGE NIPPLE	01 No


APPLICABLE TAG NO.

S.NO.	TAGS	P & ID No
1	100-PSH-09	2310-PB-2053 (SH 2 OF 2)
2	100-PSH-10	2310-PB-2053 (SH 2 OF 2)
3	PSH-20	0180-A1-12
4	PSL-28	0180-A1-18
5	901-PSL-01	2310-PB-2068
6	901-PSLL-02	2310-PB-2068
7	901-PSLL-03	2310-PB-2068
8	50-PSLL-01	E-3588-50005A (SH 1 OF 3)

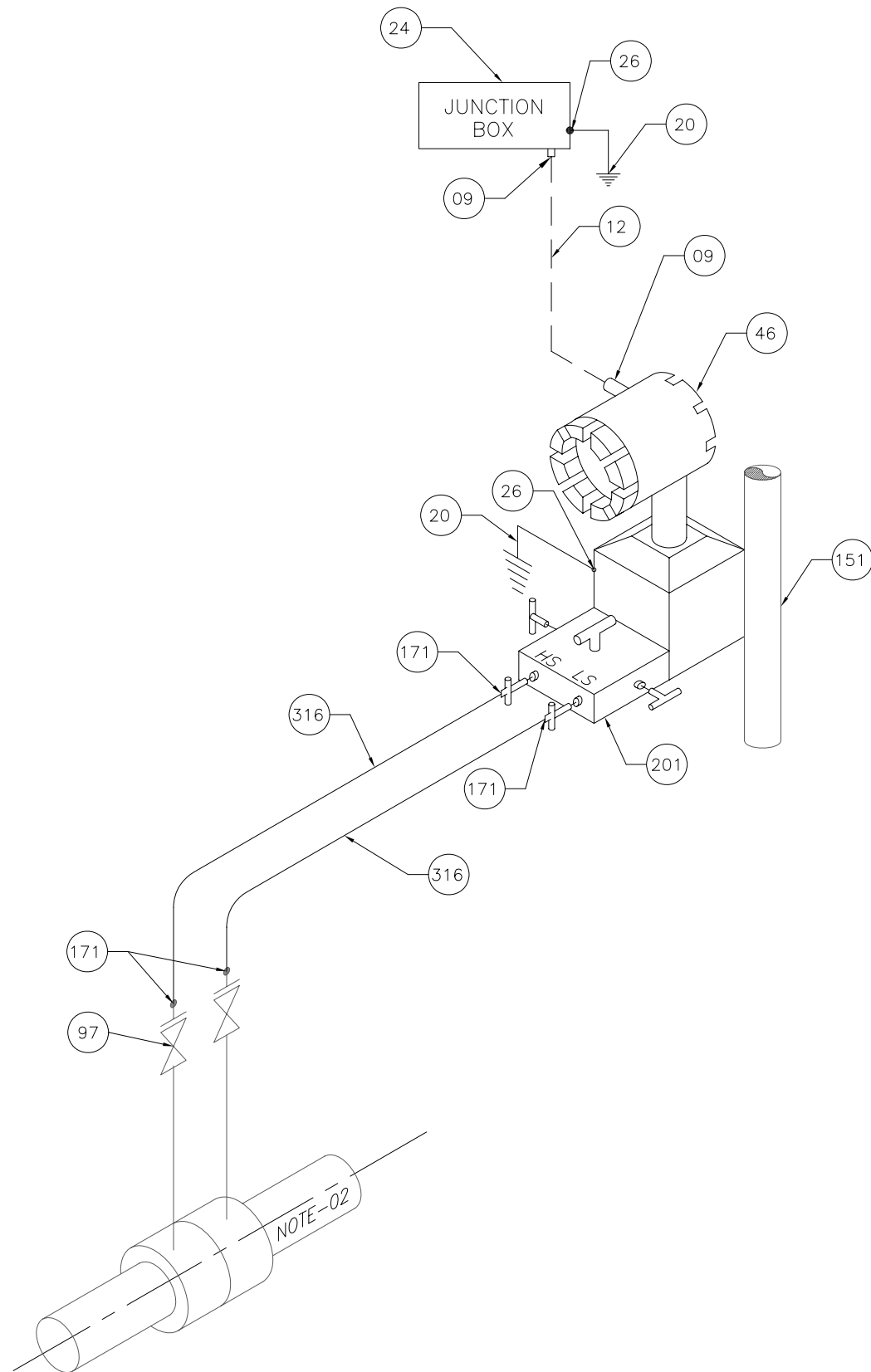
NOTES:-

1. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162			
			Dwg. No. 0162-IMB-6321			
OIL & GAS DEVELOPMENT COMPANY LTD			COMPUTER CODE 0162-IMB-6321-0			
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			SHEET SIZE A4			
TITLE: TYPICAL HOOK-UP DIAGRAM FOR PRESSURE SWITCH			SCALE 1:1			
			REPLACES DWG. NO. XX			

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MATERIAL FOR INSTALLATION


DESCRIPTION	QTY
171 MALE CONNECTOR S.S 316 1/2" NPTM x 1/2" O.D TUBING	4 Nos
316 TUBING S.S SMLS ASTM A269 TP 316 12mm O.D.x 1.5mm THICK	10 Mtr
09 EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD 20S M20	-
12 INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm+	-
20 YELLOW GREEN 4mm² EARTHING CONDUCTOR	05 Mtr
46 FLOW TRANSMITTER DP TYPE	01 Nos
201 5-VALVE MANIFOLD STANLESS STEEL 1/2" NPTF	01 Nos
24 EExd/e JUNCTION BOX	-
26 EARTHING LUGS FOR 4mm² CABLE	2 Nos
151 INSTRUMENT SUPPORT 2" CS GALVANIZED	1 Nos
97 1/2" NPTF ISOLATION VALVE	2 Nos

NOTES:-

1. FLOW TRANSMITTER SHALL BE INSTALLED ABOVE TAPPING POINT FOR GAS SERVICE AND BELOW TAPPING FOR LIQUID SERVICE.
2. ORIFICE FLANGES ARE IN INSTRUMENT SCOPE OF SUPPLY.
3. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS



ENAR PETROTECH SERVICES (PRIVATE) LIMITED
7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan
 TEL: (9221) 5062791 E-mail: info@enar.com.pk
 URL: www.enar.com.pk

A COMPANY OF

Job No. **14-0162**

Dwg. No. **0162-IMB-6322 SHEET-1 OF 3**

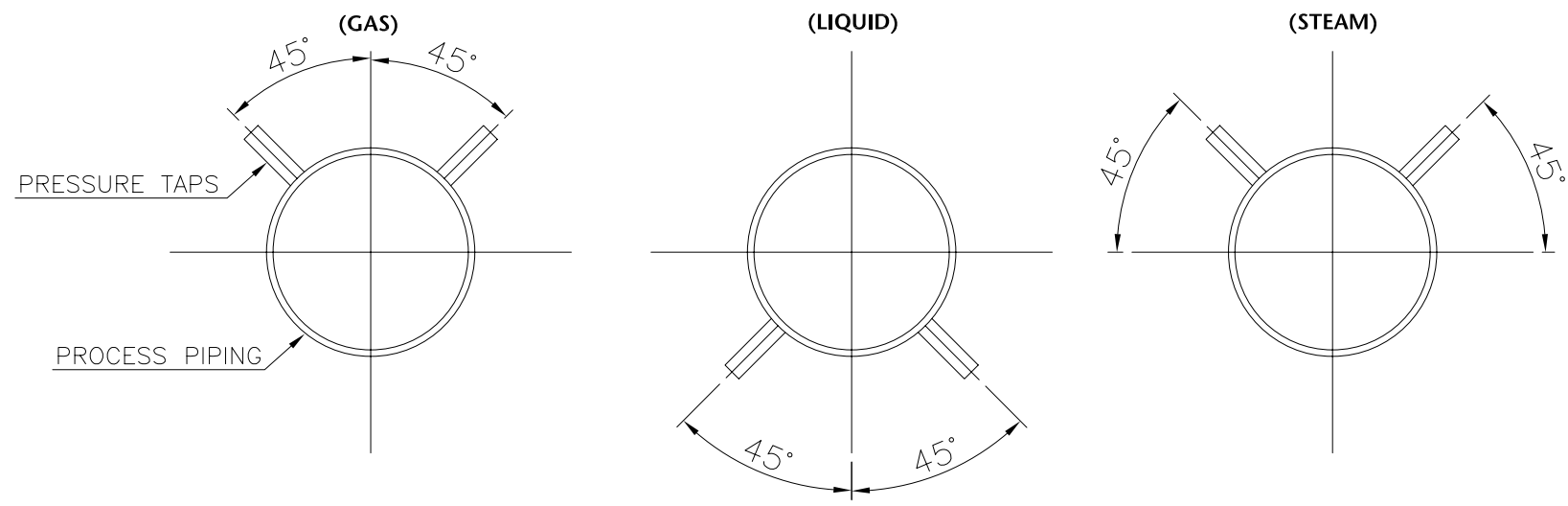
OIL & GAS DEVELOPMENT COMPANY LIMITED

DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT

TITLE: **TYPICAL HOOK-UP DIAGRAM FOR FLOW TRANSMITTER DP TYPE**

COMPUTER CODE	0162-IMB-6322-0
SHEET SIZE	A4
SCALE	1:1
REPLACES DWG. NO.	

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**PROCESS PRESSURE TAP ANGLE
(FOR HORIZONTAL PIPING)**

NOTE:

- 1- ORIFICE FLANGE AND PIPE SHALL BE OF SAME INTERNAL DIAMETER.
- 2- IF THE PROCESS FLUID IS A GAS. THE TAPS MUST BE VERTICAL OR WITHIN 45° EITHER SIDE OF VERTICAL. IF AT ALL POSSIBLE TRANSMITTER SHALL BE INSTALL ABOVE TAPPING POINTS AND SLOPE OF IMPULSE TUBING SHALL BE TOWARDS PROCESS CONNECTION.
- 3- IF THE PROCESS FLUID IS A LIQUID, THE TAPS MUST BE HORIZONTAL OR BELOW HORIZONTAL, BUT NOT MORE THAN 45° BELOW HORIZONTAL. IF AT ALL POSSIBLE TRANSMITTER SHALL BE INSTALL BELOW TAPPING POINTS AND SLOPE OF IMPULSE TUBING SHALL BE TOWARDS TRANSMITTER.
- 4- IF THE PROCESS FLUID IS STEAM OR OTHER CONDENSING VAPOR, THE TAPS MUST BE HORIZONTAL OR ABOVE HORIZONTAL, BUT NOT MORE THAN 45° ABOVE HORIZONTAL. IF AT ALL POSSIBLE TRANSMITTER SHALL BE INSTALL BELOW TAPPING POINTS AND SLOPE OF IMPULSE TUBING SHALL BE TOWARDS TRANSMITTER.
- 5- HORIZONTAL RUN SLOPE SHALL BE ATLEAST 12:1 INCHES
- 6- CONNECTION PIPING BETWEEN ORIFICE AND TRANSMITTER SHALL BE KEPT AS SMALL AS POSSIBLE

NOTES:-

1. PIPING SHALL PROVIDE 1/2" NPTF ISOLATION VALVES.
2. FLOW TRANSMITTER SHALL BE INSTALLED ABOVE TAPPING POINT FOR GAS SERVICE AND BELOW TAPPING FOR LIQUID SERVICE.
3. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL


0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162			
			Dwg. No. 0162-IMB-6322			
OIL & GAS DEVELOPMENT COMPANY LIMITED			SHEET-2 OF 3			
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE	0162-IMB-6322-0		
TITLE: TYPICAL HOOK-UP DIAGRAM FOR FLOW TRANSMITTER DP TYPE			SHEET SIZE	A4		
			SCALE	1:1		
			REPLACES DWG. NO.			
THIS DOCUMENT IS THE PROPERTY OF ENAR & THE CONTENTS MUST BE TREATED AS CONFIDENTIAL						

APPLICABLE TAG NO.

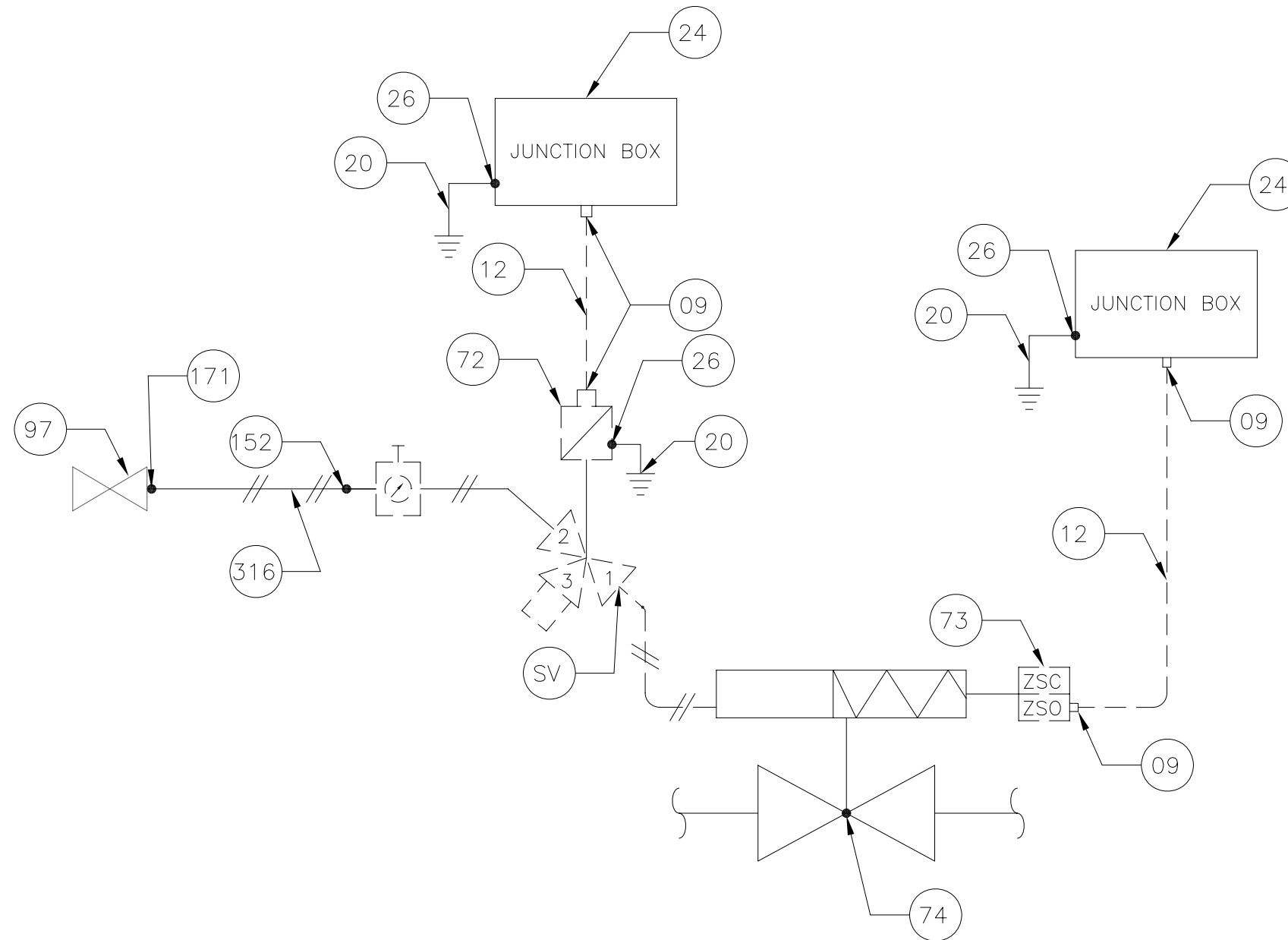
S.NO.	TAGS	P & ID No
1	20-FT-03	E-3588-20005A (SH 1 OF 2)
2	20-FT-15	E-3588-20005A (SH 2 OF 2)
3	30-FT-01	E-3588-30005A
4	40-FT-05	E-3588-40005A-D2
5	40-FT-15	E-3588-40005A-D2
6	830-FT-01	2310-PB-2075
7	830-FT-06	2310-PB-2075
8	806-FT-01	2310-PB-2072
9	806-FT-02	2310-PB-2072
10	806-FT-03	2310-PB-2072
11	801-FT-01	2310-PB-2116
12	801-FT-03	2310-PB-2116
13	FT-1	0180-AI-12
14	FT-3	0180-AI-12
15	FT-10	0180-AI-12
16	802-FT-01	2310-PB-2064
17	100-FT-02	2310-PB-2053 (SH 1 OF 2)
18	100-FT-06	2310-PB-2053 (SH 2 OF 2)
19	903-FT-01	2310-PB-2058 (SH 2 OF 2)
20	50-FT-15	E-3588-50005A (SH 1 OF 3)
21	60-FT-15	E-3588-60005A-D1
22	60-FT-13	E-3588-60005B-D1
23	60-FT-07	E-3588-60005D-D1
24	60-FT-2000	E-3588-60005E-D1
25	910-FT-01	2310-PB-2059
26	911-FT-01	2310-PB-2077 (SH 1 OF 2)
27	830-FT-07	2310-PB-2075

ISSUED FOR REVIEW AND APPROVAL

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

 <small>A COMPANY OF</small>	ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>	Job No. 14-0162 Dwg. No. 0162-IMB-6322 SHEET-3 OF 3								
OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>COMPUTER CODE</td><td>0162-IMB-6322-0</td></tr> <tr><td>SHEET SIZE</td><td>A4</td></tr> <tr><td>SCALE</td><td>1:1</td></tr> <tr><td>REPLACES DWG. NO.</td><td></td></tr> </table>	COMPUTER CODE	0162-IMB-6322-0	SHEET SIZE	A4	SCALE	1:1	REPLACES DWG. NO.	
COMPUTER CODE	0162-IMB-6322-0									
SHEET SIZE	A4									
SCALE	1:1									
REPLACES DWG. NO.										
TITLE: TYPICAL HOOK-UP DIAGRAM FOR FLOW TRANSMITTER DP TYPE										

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NOTES:-

1. EXPANDER, REDUCER, GASKETS, STUDS, NUTS & BOLTS TO BE PROVIDED BY PIPING.
2. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

MATERIAL FOR INSTALLATION

DESCRIPTION	QTY
171 MALE CONNECTOR S.S 316 1/2" NPTM x 1/2" O.D TUBING	01 Nos
316 TUBING S.S SMLS ASTM A269 TP 316 12mm O.D.x 1.5mm THICK	05 Mtr
09 EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD 20S M20	-
12 INSTRUMENT CABLE - OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
20 YELLOW GREEN 4mm ² EARTHING CONDUCTOR	05 Mtr
74 AUTOMATIC BALL VALVE	01 Nos
73 LIMIT SWITCHES	01 Nos
72 SOLENOID VALVE	01 Nos
24 EExd/e JUNCTION BOX	-
26 EARTHING LUGS 4mm ² CABLE	03 Nos
152 MALE CONNECTOR S.S 316 1/4" NPT-M x 1/2" O.D TUBING	01 Nos
97 1/2" NPTF ISOLATION VALVE	1 Nos

APPLICABLE TAG NO.

S.NO.	TAGS	P & ID No
1	60-BDV-01	E-3588-60005A-D1
2	60-BDV-07	E-3588-60005B-D1
3	20-ESDV-01	E-3588-20005A (SH 1 OF 2)
4	20-ESDV-02	E-3588-20005A (SH 2 OF 2)
5	806-ESDV-01	2310-PB-2072
6	100-ESDV-01	2310-PB-2053 (SH 1 OF 2)
7	100-ESDV-02	2310-PB-2053 (SH 2 OF 2)
8	60-ESDV-02	E-3588-60005A D1
9	60-ESDV-03	E-3588-60005B D1
10	60-ESDV-05	E-3588-60005B D1
11	60-ESDV-06	E-3588-60005B D1
12	60-ESDV-04	E-3588-60005C D1
13	806-LCV-01	2310-PB-2072
14	806-LCV-02	2310-PB-2072

ISSUED FOR REVIEW AND APPROVAL

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

ENAR PETROTECH SERVICES (PRIVATE) LIMITED
 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan
 TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk

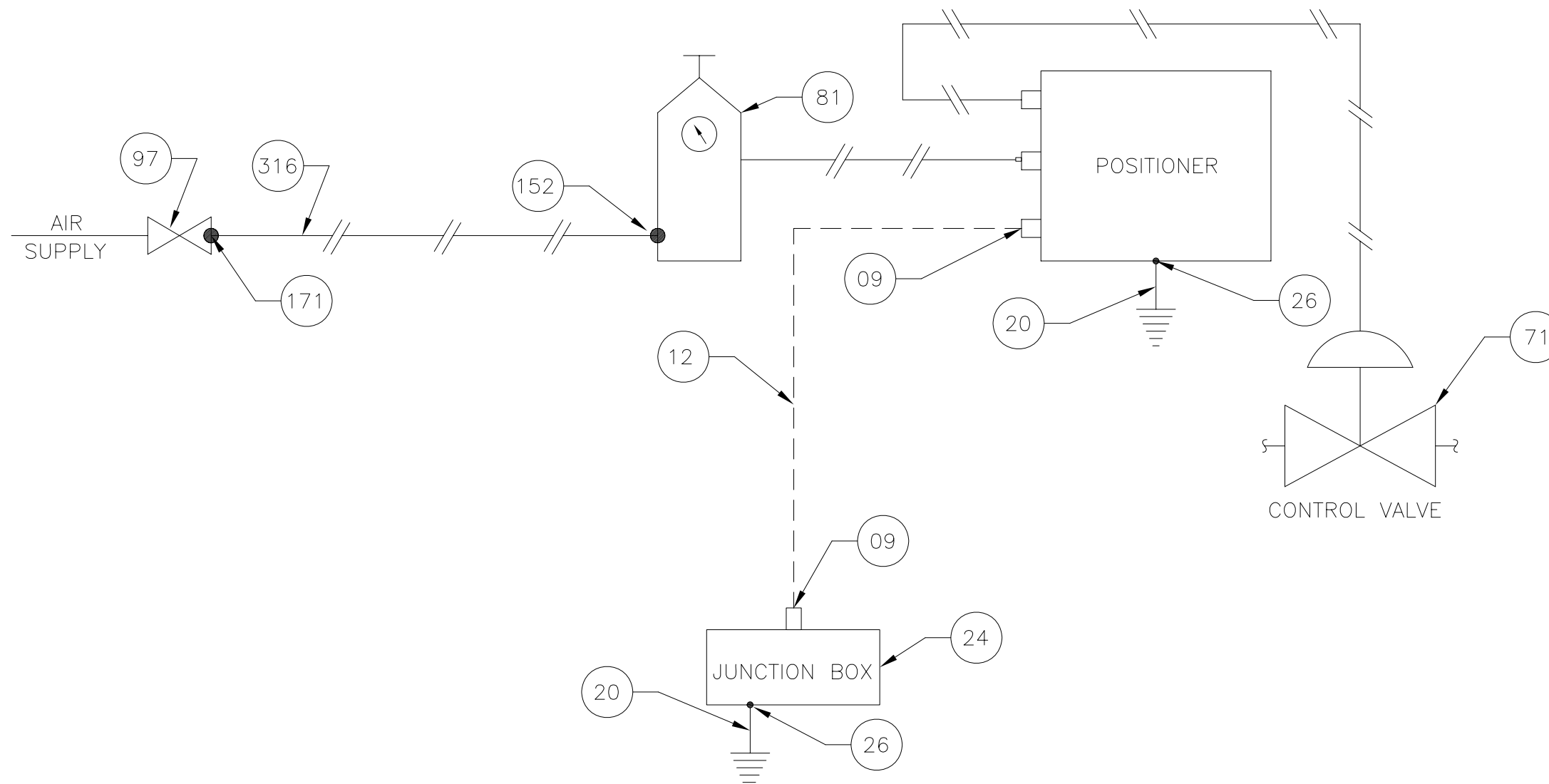
OIL & GAS DEVELOPMENT COMPANY LIMITED
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT

Job No. 14-0162
 Dwg. No. 0162-IMB-6323

TITLE: TYPICAL HOOK-UP DIAGRAM FOR SINGLE ACTING BDV /ESDV (AUTOMETIC BALL VALVE)

COMPUTER CODE: 0162-IMB-6323-0
 SHEET SIZE: A4
 SCALE: 1:1
 REPLACES DWG. NO.:

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MATERIAL FOR INSTALLATION

ITEM No.	DESCRIPTION	QTY.
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1x2x1.5mm ²	—
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	05 Mtr
24	EExd/e JUNCTION BOX	—
71	CONTROL VALVE	01 Nos
81	FILTER REGULATOR	01 Nos
316	TUBING S.S SMLS ASTM A269 TP 316 12mm O.D.x 1.5mm THICK	05 Mtr
26	EARTHING LUGS	02 Nos
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD 20S M20	—
171	MALE CONNECTOR S.S 316 ½" NPTM x ½" O.D TUBING	01 Nos
152	MALE CONNECTOR S.S 316 ¼" NPTM x ½" O.D TUBING	01 Nos
97	½" NPTF ISOLATION VALVE	1 No

APPLICABLE TAG NO.

S.No.	DESCRIPTION	P & ID Nos.
1	20-LCV-05	E-3588-20005A (SH 2 OF 2)
2	40-PCV-06	E-3588-40005A
3	100-PCV-07	2310-PB-2053 (SH 1 OF 2)
4	100-PCV-08	2310-PB-2053 (SH 2 OF 2)

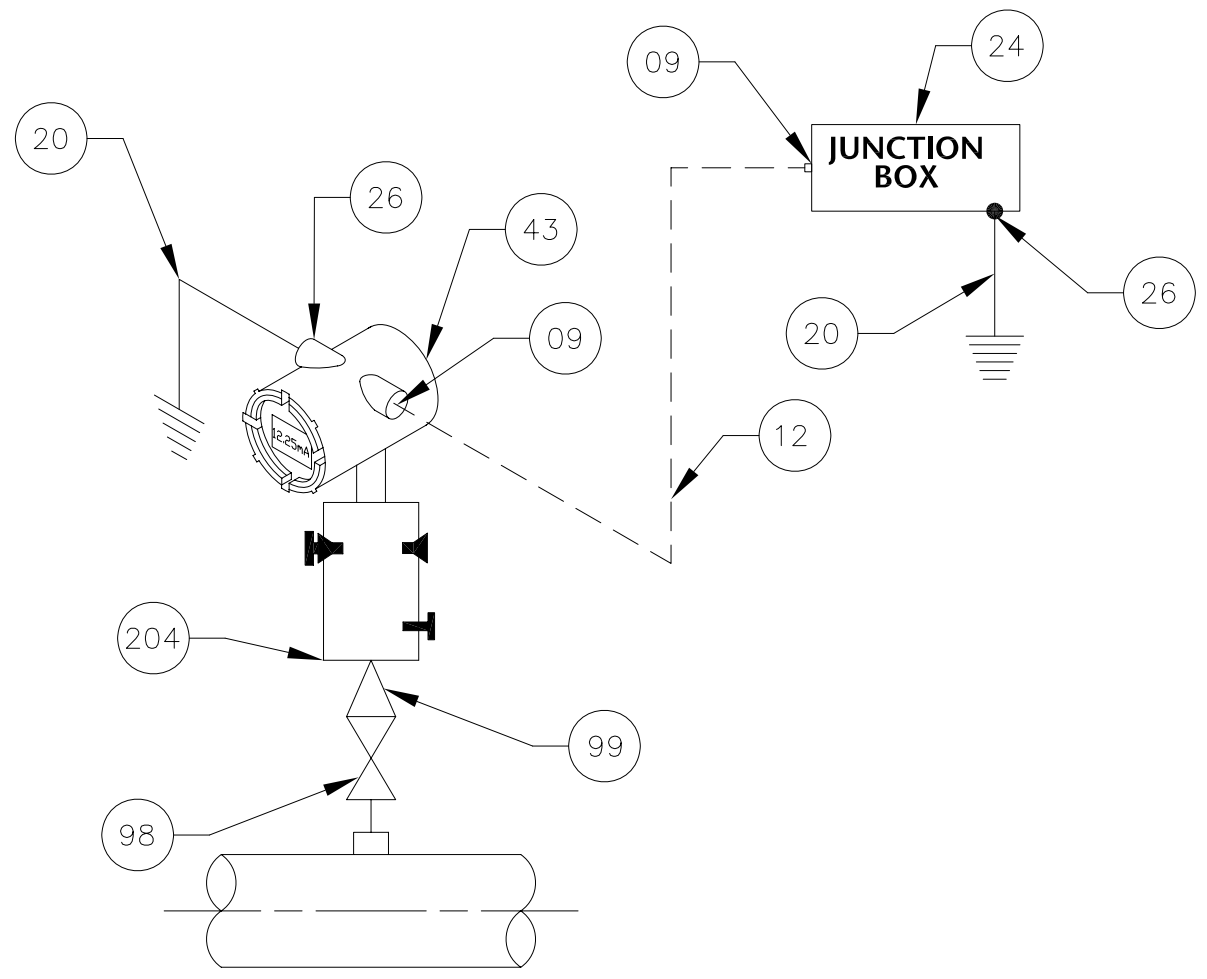
NOTE:

- 1- NUTS, BOLTS AND GASKET REQUIRED FOR MOUNTING CONTROL VALVE SHALL BE PROVIDED BY PIPING.
- 2- ALL DIMENSION ARE IN MM UNLESS OTHER WISE STATED.
- 3- INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.

ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>	Job No. 14-0162								
	Dwg. No. 0162-IMB-6324								
OIL & GAS DEVELOPMENT COMPANY LIMITED									
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT									
TITLE: TYPICAL HOOK-UP DIAGRAM FOR CONTROL VALVE	<table border="1"> <tr> <td>COMPUTER CODE</td> <td>0162-IMB-6324-0</td> </tr> <tr> <td>SHEET SIZE</td> <td>A4</td> </tr> <tr> <td>SCALE</td> <td>1:1</td> </tr> <tr> <td>REPLACES DWG. NO.</td> <td></td> </tr> </table>	COMPUTER CODE	0162-IMB-6324-0	SHEET SIZE	A4	SCALE	1:1	REPLACES DWG. NO.	
COMPUTER CODE	0162-IMB-6324-0								
SHEET SIZE	A4								
SCALE	1:1								
REPLACES DWG. NO.									



MATERIAL FOR INSTALLATION


ITEM No	DESCRIPTION	QTY
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD 20S M20	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
24	EExd/e JUNCTION BOX	-
43	PRESSURE TRANSMITTER	01 Nos
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	05 Mtr
26	EARTHING LUGS	02 Nos
204	2-VALVE MANIFOLD 316 SS 1/2" NPTF	01 Nos
99	3/4" X 1/2" NPTM SWAGE NIPPLE	01 Nos
98	3/4" NPTF ISOLATION VALVE	1 No

NOTES:-

1. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.
2. NUTS, BOLTS AND GASKET REQUIRED FOR MOUNTING PRESSURE SHALL BE PROVIDED BY PIPING.
3. ALL DIMENSION ARE IN MM UNLESS OTHER WERE STATED.

ISSUED FOR REVIEW AND APPROVAL

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS



ENAR PETROTECH SERVICES (PRIVATE) LIMITED
7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan
 TEL: (9221) 5062791 E-mail: info@enar.com.pk
 URL: www.enar.com.pk

Job No. **14-0162**

Dwg. No. **0162-IMB-6325 SHEET- 1 OF 2**

OIL & GAS DEVELOPMENT COMPANY LIMITED

DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT

TITLE: **TYPICAL HOOK-UP DIAGRAM FOR PRESSURE TRANSMITTER**

COMPUTER CODE	0162-IMB-6325-0
SHEET SIZE	A4
SCALE	1:1
REPLACES DWG. NO.	


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APPLICABLE TAG NO.		
S.NO.	TAGS	P & ID No.
1	20-PIT-06	E-3588-20005A (SH 2 OF 2)
2	20-PT-05	E-3588-20005A (SH 2 OF 2)
3	30-PT-01	E-3588-30005A
4	40-PT-01	E-3588-40005A-D2
5	40-PT-06	E-3588-40005A-D2
6	830-PT-02	2310-PB-2075
7	830-PT-03	2310-PB-2075
8	830-PT-04	2310-PB-2075
9	830-PT-06	2310-PB-2075
10	830-PT-07	2310-PB-2075
11	830-PT-08	2310-PB-2075
12	806-PT-03	2310-PB-2072
13	806-PT-15	2310-PB-2072
14	806-PT-16	2310-PB-2072
15	801-PT-15	2310-PB-2116
16	801-PT-16	2310-PB-2116
17	60-PT-007	2310-PB-2111
18	60-PT-02	2310-PB-2111
19	PIC-10	0180-AI-11
20	PIC-35	0180-AI-19
21	PIC-33	0180-AI-19
22	PIC-51	0180-AI-19
23	PC-39	0180-AI-20
24	PC-41	0180-AI-20
25	PC-46	0180-AI-20
26	901-PT-03	2310-PB-2068
27	912-PT-03	2310-PB-2073
28	802-PT-03	2310-PB-2064
29	803-PT-03	2310-PB-2066
30	100-PT-01	2310-PB-2053 (SH 1 OF 2)
31	100-PIC-02	2310-PB-2053 (SH 1 OF 2)
32	100-PIC-03	2310-PB-2053 (SH 1 OF 2)
33	100-PIC-04	2310-PB-2053 (SH 1 OF 2)
34	100-PT-07	2310-PB-2053 (SH 1 OF 2)
35	100-PT-05	2310-PB-2053 (SH 2 OF 2)
36	100-PT-08	2310-PB-2053 (SH 2 OF 2)
37	100-PT-06	2310-PB-2053 (SH 2 OF 2)
38	903-PT-07	2310-PB-2058 (SH 2 OF 2)
39	50-PT-01	E-3588-50005A (SH 1 OF 3)
40	50-PT-01	E-3588-50005A (SH 1 OF 3)
41	50-PT-02	E-3588-50005A (SH 1 OF 3)
42	50-PT-07	E-3588-50005A (SH 2 OF 3)
43	50-PT-08	E-3588-50005A (SH 2 OF 3)
44	60-PT-01	E-3588-60005A-D1
45	60-PT-17	E-3588-60005A-D1
46	60-PT-15	E-3588-60005B-D1
47	60-PT-16	E-3588-60005C-D1
48	60-PIC-2000	E-3588-60005E-D1
49	50-PT-01C	2310-PB-2110
50	50-PT-01	2310-PB-2110
51	911-PT-01	2310-PB-2077 (SH 1 OF 2)
52	911-PT-02	2310-PB-2077 (SH 1 OF 2)
53	911-PT-03	2310-PB-2077 (SH 1 OF 2)
54	911-PT-04	2310-PB-2077 (SH 1 OF 2)

APPLICABLE TAG NO.		
S.NO.	TAGS	P & ID No.
24	PC-41	0180-AI-20
25	PC-46	0180-AI-20
26	901-PT-03	2310-PB-2068
27	912-PT-03	2310-PB-2073
28	802-PT-03	2310-PB-2064
29	803-PT-03	2310-PB-2066
30	100-PT-01	2310-PB-2053 (SH 1 OF 2)
31	100-PIC-02	2310-PB-2053 (SH 1 OF 2)
32	100-PIC-03	2310-PB-2053 (SH 1 OF 2)
33	100-PIC-04	2310-PB-2053 (SH 1 OF 2)
34	100-PT-07	2310-PB-2053 (SH 1 OF 2)
35	100-PT-05	2310-PB-2053 (SH 2 OF 2)
36	100-PT-08	2310-PB-2053 (SH 2 OF 2)
37	100-PT-06	2310-PB-2053 (SH 2 OF 2)
38	903-PT-07	2310-PB-2058 (SH 2 OF 2)
39	50-PT-01	E-3588-50005A (SH 1 OF 3)
40	50-PT-01	E-3588-50005A (SH 1 OF 3)
41	50-PT-02	E-3588-50005A (SH 1 OF 3)
42	50-PT-07	E-3588-50005A (SH 2 OF 3)
43	50-PT-08	E-3588-50005A (SH 2 OF 3)
44	60-PT-01	E-3588-60005A-D1
45	60-PT-17	E-3588-60005A-D1
46	60-PT-15	E-3588-60005B-D1
47	60-PT-16	E-3588-60005C-D1
48	60-PIC-2000	E-3588-60005E-D1
49	50-PT-01C	2310-PB-2110
50	50-PT-01	2310-PB-2110
51	911-PT-01	2310-PB-2077 (SH 1 OF 2)
52	911-PT-02	2310-PB-2077 (SH 1 OF 2)
53	911-PT-03	2310-PB-2077 (SH 1 OF 2)
54	911-PT-04	2310-PB-2077 (SH 1 OF 2)

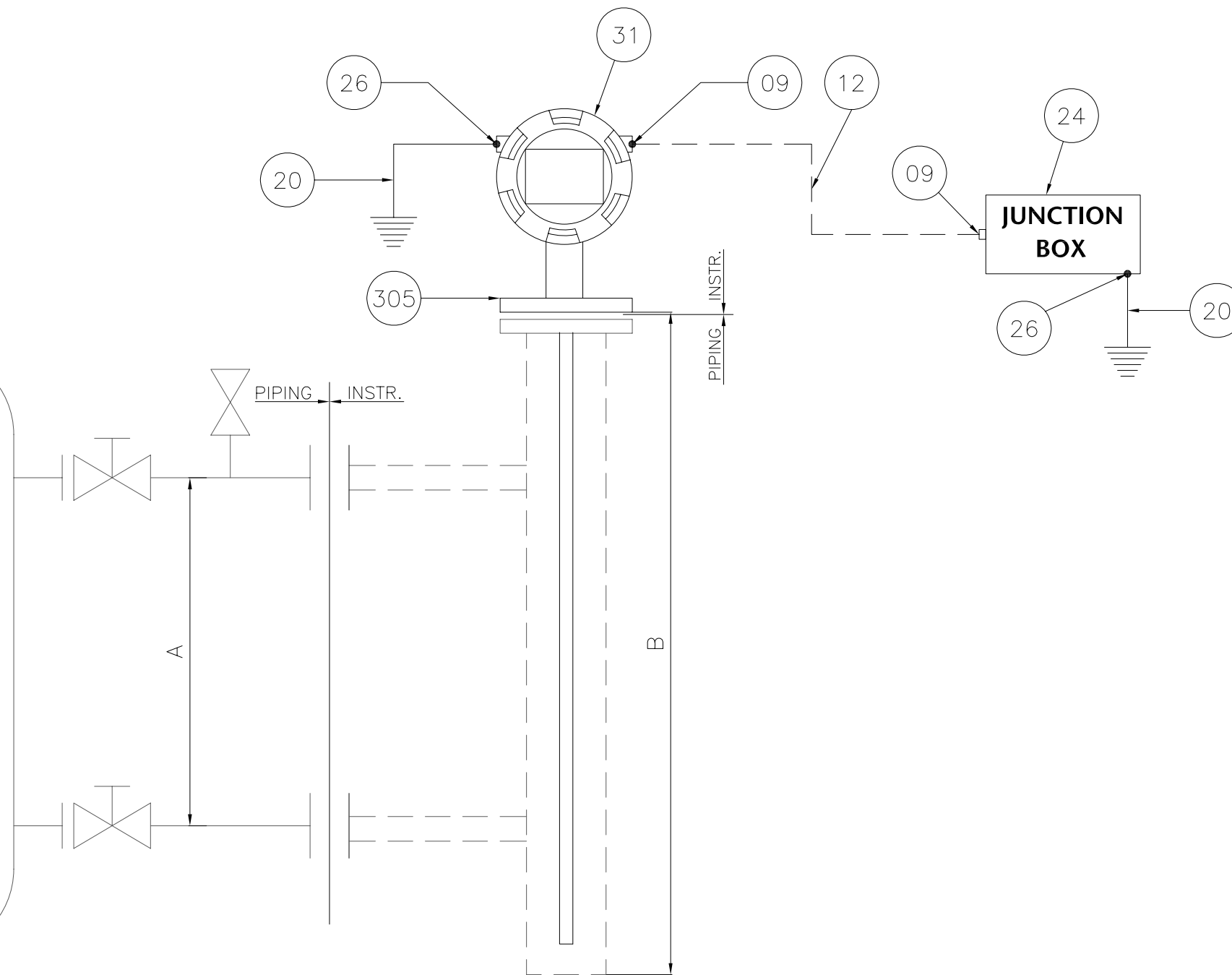
ISSUED FOR REVIEW AND APPROVAL

REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2076	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>	Job No.	14-0162
	Dwg. No.	0162-IMB-6325 SHEET- 2 OF 2
OIL & GAS DEVELOPMENT COMPANY LIMITED		
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT		
TITLE:	TYPICAL HOOK-UP DIAGRAM FOR PRESSURE TRANSMITTER	
COMPUTER CODE	0162-IMB-6325-0	
SHEET SIZE	A4	
SCALE	1:1	
REPLACES DWG. NO.		

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VESSEL



MATERIAL FOR INSTALLATION

S.No	DESCRIPTION	QTY.
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD M20x1.5mm ²	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1x2x1.5mm ²	-
24	EExd/e JUNCTION BOX	-
31	RADAR TYPE LEVEL TRANSMITTER	01 Nos
20	YELLOW GREEN 4mm ² STRANDED EARTHING CONDUCTOR	05 Mtr.
26	EARTHING LUGS	02 Nos
305	ANSI FLANGE	01 Nos

APPLICABLE TAG NO.


S.NO.	TAGS	P & ID No
1	20-LT-16	E-3588-20005A (SH 1 OF 2)
2	30-LT-15	E-3588-30005A
3	40-LT-01	E-3588-40005A D2
4	40-LT-05	E-3588-40005B-D2
5	830-TT-02	2310-PB-2075
6	806-LT-01	2310-PB-2072
7	806-LT-02	2310-PB-2072
8	LT-7	0180-A1-12
9	LT-15	0180-A1-20
10	902-LT-01	2310-PB-2063
11	902-LT-02	2310-PB-2063
12	60-LT-15	E-3588-60005A-D1
13	60-LT-16	E-3588-60005A-D1
14	911-LT-01	2310-PB-2077 (SH 1 OF 2)
15	911-LT-02	2310-PB-2077 (SH 1 OF 2)
16	911-LT-03	2310-PB-2077 (SH 1 OF 2)
17	911-LT-04	2310-PB-2077 (SH 1 OF 2)
18	903-LT-02	2310-PB-2058 (SH 2 OF 2)

NOTES:-

1. NUTS, BOLTS AND GASKET REQUIRED FOR MOUNTING RADAR LEVEL TRANSMITTER SHALL BE PROVIDED BY PIPING.
2. ALL DIMENSION ARE IN MM UNLESS OTHER WISE STATED.
3. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

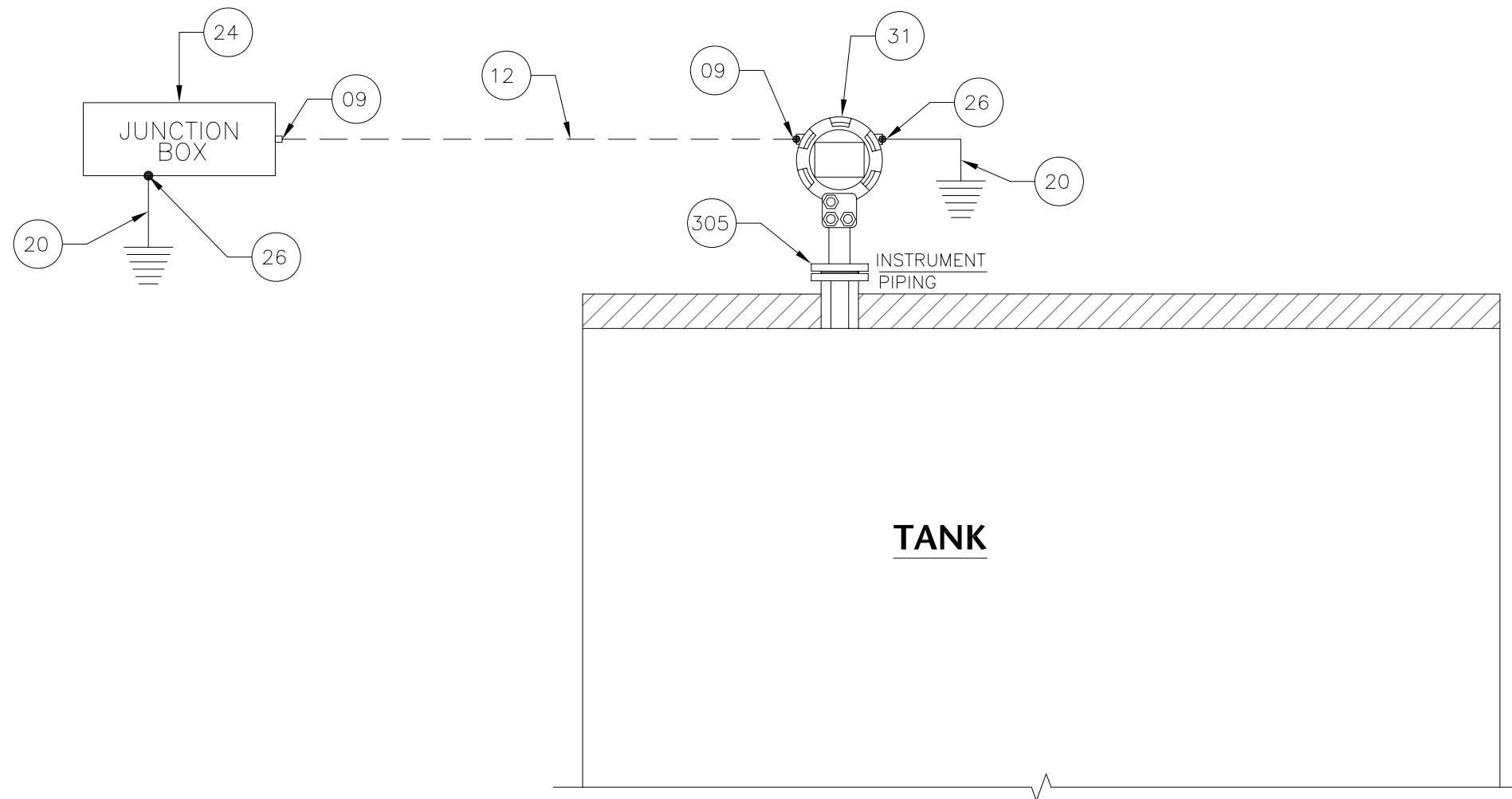
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>	Job No. 14-0162
	Dwg. No. 0162-IMB-6327 SHEET- 1 OF 2
OIL & GAS DEVELOPMENT COMPANY LIMITED	
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT	
TITLE: TYPICAL HOOK-UP DIAGRAM FOR GUIDED RADAR TYPE LEVEL TRANSMITTER SIDE	
COMPUTER CODE	0162-IMB-6327-0
SHEET SIZE	A4
SCALE	1:1
REPLACES DWG. NO.	

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MATERIAL FOR INSTALLATION 2310-PB-2070

ITEM No.	DESCRIPTION	QTY
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD 20S M20	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm²	-
24	EExd/e JUNCTION BOX	-
20	YELLOW GREEN 4mm² EARTHING CONDUCTOR	05 Mtr
26	EARTHING LUGS FOR 4mm² CABLE	02 Nos
31	RADAR TYPE LEVEL TRANSMITTER	01 Nos
305	ANSI FLANGE	01 Nos




APPLICABLE TAG NO.

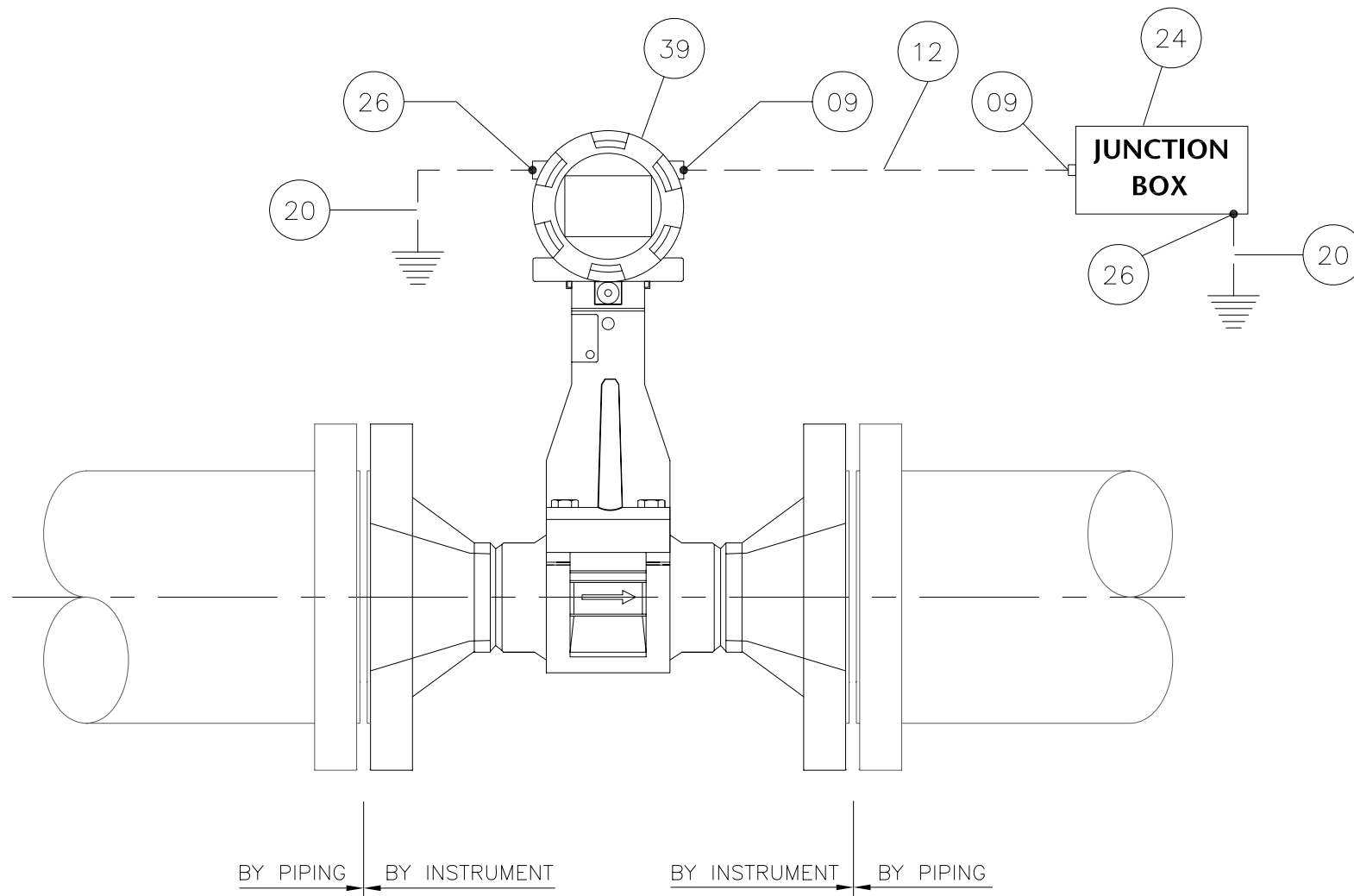
S.NO.	TAGS	P & ID No
1	830-LT-03	2310-PB-2075
2	100-LIT-15	2310-PB-2070
3	100-LIT-16	2310-PB-2070
4	100-LIT-17	2310-PB-2070
5	910-LT-01	2310-PB-2060
6	910-LT-02	2310-PB-2060
7	910-LT-03	2310-PB-2060
8	910-LT-04	2310-PB-2060
9	910-LT-05	2310-PB-2060

NOTES

- 1- PIPING SHALL PROVIDE SUITABLE ANSI FLANGE CONNECTION.
- 2- ALL DIMENSIONS ARE IN MM UNLESS OTHER WISE STATED.
- 3- INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL

0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162 Dwg. No. 0162-IMB-6327 SHEET 2 OF 2			
OIL & GAS DEVELOPMENT COMPANY LTD DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE: 0162-IMB-6327-0 SHEET SIZE: A4 SCALE: 1:1 REPLACES DWG. NO.: XX			
TITLE: TYPICAL HOOK-UP DIAGRAM FOR UN-GUIDED RADAR TYPE LEVEL TRANSMITTER			THIS DOCUMENT IS THE PROPERTY OF ENAR & THE CONTENTS MUST BE TREATED AS CONFIDENTIAL			



MATERIAL FOR INSTALLATION


S.No	DESCRIPTION	QTY.
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD M20x1.5mm ²	—
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1x2x1.5mm ²	—
24	EExd/e JUNCTION BOX	—
39	VORTEX FLOW METER	01 Nos
20	YELLOW GREEN 4mm ² STRANDED EARTHING CONDUCTOR	05 Mtr
26	EARTHING LUGS	02 Nos

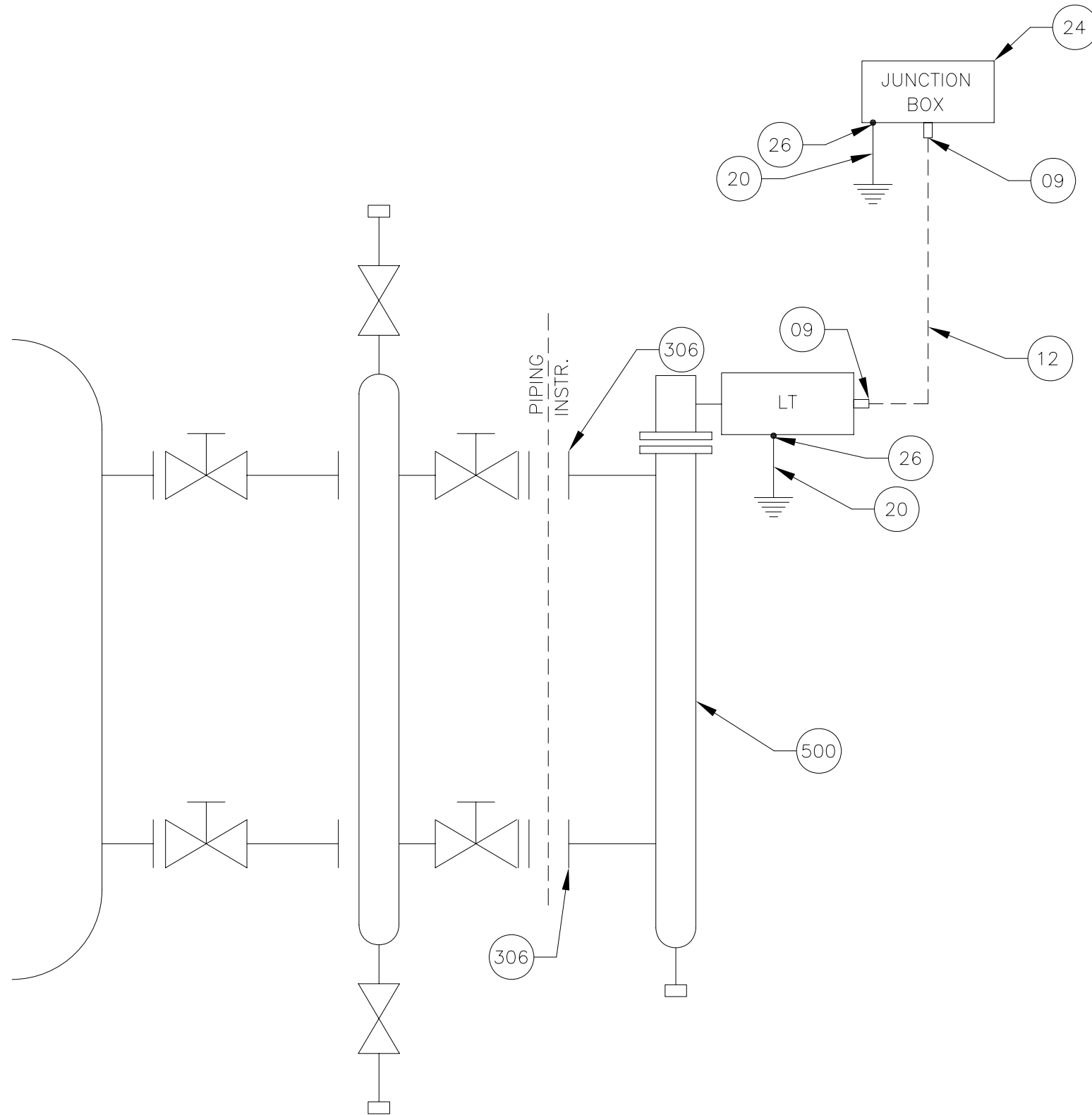
APPLICABLE TAG NO.

S.NO.	TAGS	P & ID No
1	830-VFM-08	2310-PB-2075
2	30-VFM-15	E-3588-30005A

NOTES:-

1. PIPING SHALL PROVIDE SUITABLE ANSI FLANGE.
2. NUTS, BOLTS AND GASKET REQUIRED FOR VORTEX FLOW METER SHALL BE PROVIDED BY PIPING.
3. ALL DIMENSION ARE IN MM UNLESS OTHER WISE STATED.
4. INSTALLATION MTERIALS ARE SHOWN FOR ONE TAG ONLY.

0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162 Dwg. No. 0162-IMB-6328			
OIL & GAS DEVELOPMENT COMPANY LTD			0162-IMB-6328-0			
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE			
TITLE: TYPICAL HOOK-UP DIAGRAM FOR VORTEX FLOW METER			SHEET SIZE A4			
			SCALE 1:1			
			REPLACES DWG. NO. XX			
<small>THIS DOCUMENT IS THE PROPERTY OF ENAR & THE CONTENTS MUST BE TREATED AS CONFIDENTIAL</small>						



MATERIAL FOR INSTALLATION

DESCRIPTION	QTY
09 EExd/e IIC CABLE GLAND WITH BLACK SHROUD 20S M20	-
12 INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
24 EExd/e JUNCTION BOX	-
500 DISPLACER TYPE LEVEL TRANSMITTER	01 Nos
306 ANSI FLANGE	02 Nos
26 EARTHING LUGS	02 Nos
20 YELLOW GREEN 4mm ² EARTHING CONDUCTOR	05 Mtr

NOTES:-

- 1- PIPING SHALL PROVIDED SUITABLE ANSI FLANGE CONNECTIONS.
- 2- NUTS, BOLTS, GASKET, ISOLATION VALVES, DRAIN / VENT SHALL BE PROVIDED BY PIPING.
- 3- INSTALATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

ISSUED FOR REVIEW AND APPROVAL


REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

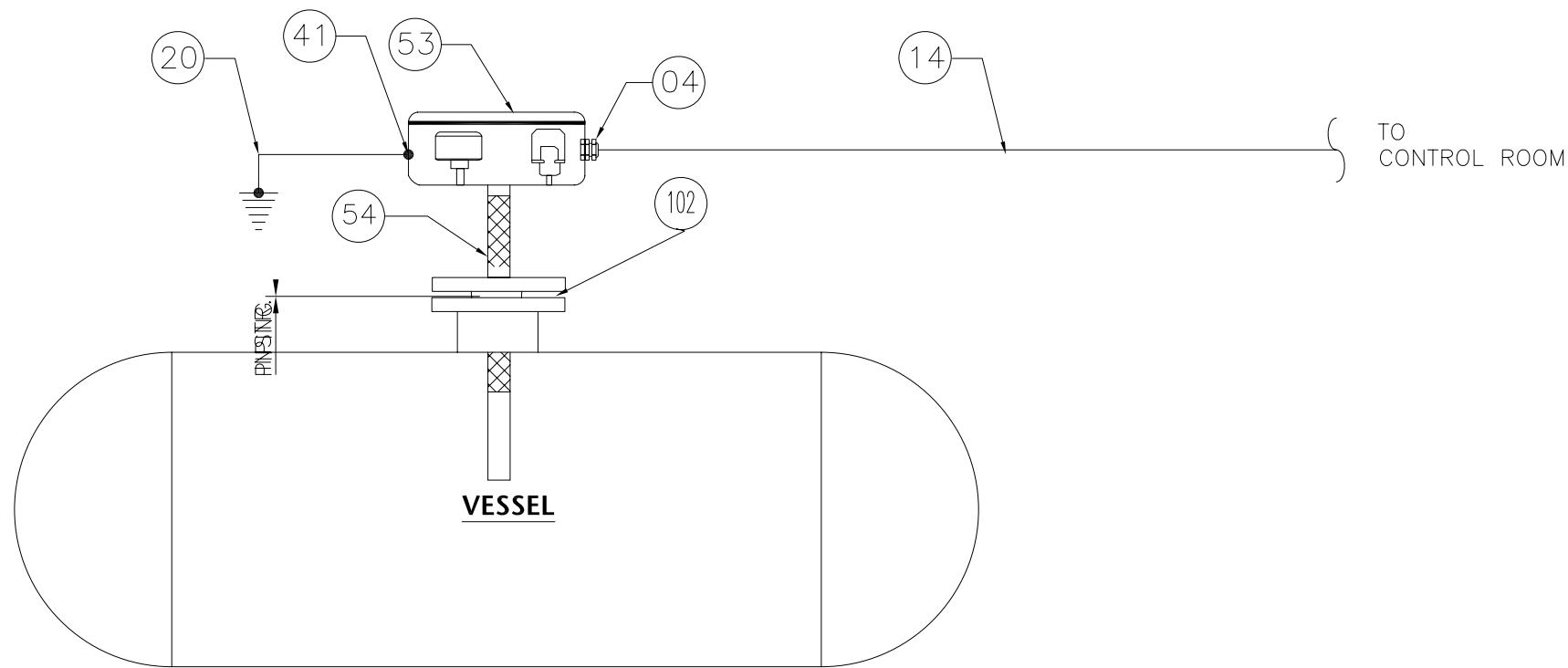
<p>ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</p>	<p>Job No. 14-0162</p>
	<p>Dwg. No. 0162-IMB-6329 SHEET:- 1 OF 2</p>
<p>OIL & GAS DEVELOPMENT COMPANY LIMITED</p>	<p>COMPUTER CODE 0162-IMB-6329-0</p>
<p>TITLE: DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT TYPICAL HOOK-UP DIAGRAM OF DISPLACER TYPE LEVEL TRANSMITTER</p>	<p>SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.</p>
<p>THIS DOCUMENT IS THE PROPERTY OF ENAR & THE CONTENTS MUST BE TREATED AS CONFIDENTIAL</p>	

APPLICABLE TAG NO.		
S.NO.	TAGS	P & ID No
1	20-LT-02	E-3588-20005A (SH 1 OF 2)
2	20-LT-04	E-3588-20005A (SH 2 OF 2)
3	20-LT-05	E-3588-20005A (SH 2 OF 2)
4	20-LT-06	E-3588-20005A (SH 2 OF 2)
5	30-LT-01	E-3588-30005A
6	30-LT-02	E-3588-30005A
7	801-LT-01	2310-PB-2116
8	60-LT-012	2310-PB-2111
9	60-LT-013	2310-PB-2111
10	LT-06	0180-A1-12
11	LT-9	0180-A1-13
12	LT-18	0180-A1-20
13	LT-90	0180-A1-20
14	100-LT-01	2310-PB-2053 (SH 1 OF 2)
15	100-LT-02	2310-PB-2053 (SH 1 OF 2)
16	100-LT-03	2310-PB-2053 (SH 1 OF 2)
17	100-LT-04	2310-PB-2053 (SH 1 OF 2)
18	100-LT-05	2310-PB-2053 (SH 1 OF 2)
19	100-LT-06	2310-PB-2053 (SH 1 OF 2)
20	100-LT-07	2310-PB-2053 (SH 1 OF 2)
21	100-LT-08	2310-PB-2053 (SH 2 OF 2)
22	100-LT-09	2310-PB-2053 (SH 2 OF 2)
23	903-LT-01	2310-PB-2058 (SH 1 OF 2)
24	903-LT-03	2310-PB-2058 (SH 1 OF 2)
25	50-LT-01	E-3588-50005A (SH 1 OF 3)
26	50-LT-02	E-3588-50005A (SH 1 OF 3)
27	50-LT-03	E-3588-50005A (SH 1 OF 3)
28	50-LT-04	E-3588-50005A (SH 1 OF 3)
29	60-LT-01	E-3588-50005A-D1
30	60-LT-02	E-3588-50005A-D1
31	60-LT-03	E-3588-60005A-D1
32	60-LT-04	E-3588-60005A-D1
33	60-LT-05	E-3588-60005A-D1
34	60-LT-06	E-3588-60005B-D1
35	60-LT-07	E-3588-60005B-D1
36	60-LT-12	E-3588-60005B-D1
37	60-LT-09	E-3588-60005C-D1
38	60-LT-10	E-3588-60005C-D1
39	60-LT-11	E-3588-60005D-D1
40	60-LT-2000A	E-3588-60005E-D1
41	60-LT-2000B	E-3588-60005E-D1

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REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
0	05-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS

 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>	Job No. 14-0162
	Dwg. No. 0162-IMB-6329 SHEET:- 2 OF 2
OIL & GAS DEVELOPMENT COMPANY LIMITED	
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT	
TITLE: TYPICAL HOOK-UP DIAGRAM OF DISPLACER TYPE LEVEL TRANSMITTER	COMPUTER CODE 0162-IMB-6329-0
	SHEET SIZE A4
	SCALE 1:1
	REPLACES DWG. NO.
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MATERIAL FOR INSTALLATION

DESCRIPTION		QTY.
04	EExd IIC T6 CABLE GLAND WITH BLUE SHROUD 20S M20	-
14	INSTRUMENT CABLE OUTER SHEATH BLACK 1x2x1.5mm ²	-
20	YELLOW GREEN 4mm ² STRANDED EARTHING CONDUCTOR	05 Mtr.
53	ALUMINIUM ENCLOSURE WITH TERMINAL STRIP & 05 ENCLOSED	01 Nos
102	ANSI FLANGE	01 Nos
54	MULTI SPOT TEMPERATURE SENSOR THERMOWELL	01 Nos
41	EARTHING LUGS 4mm ²	01 Nos

APPLICABLE TAG NO.

S.NO.	TAGS	P & ID Nos.
1	TT-7A	0180-A1-13
2	TT-7B	0180-A1-14
3	TT-7C	0180-A1-15

NOTES:-

1. THIS DRAWING IS APPLICABLE FOR LINE SIZES GREATER/ EQUAL TO 4"
2. NUTS, BOLTS GASKET, ISOLATION VALVES, VENT / DRAIN SHALL BE PROVIDED BY PIPING.
3. ALL DIMENSION ARE IN MM UNLESS OTHER WISE STATED..
4. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

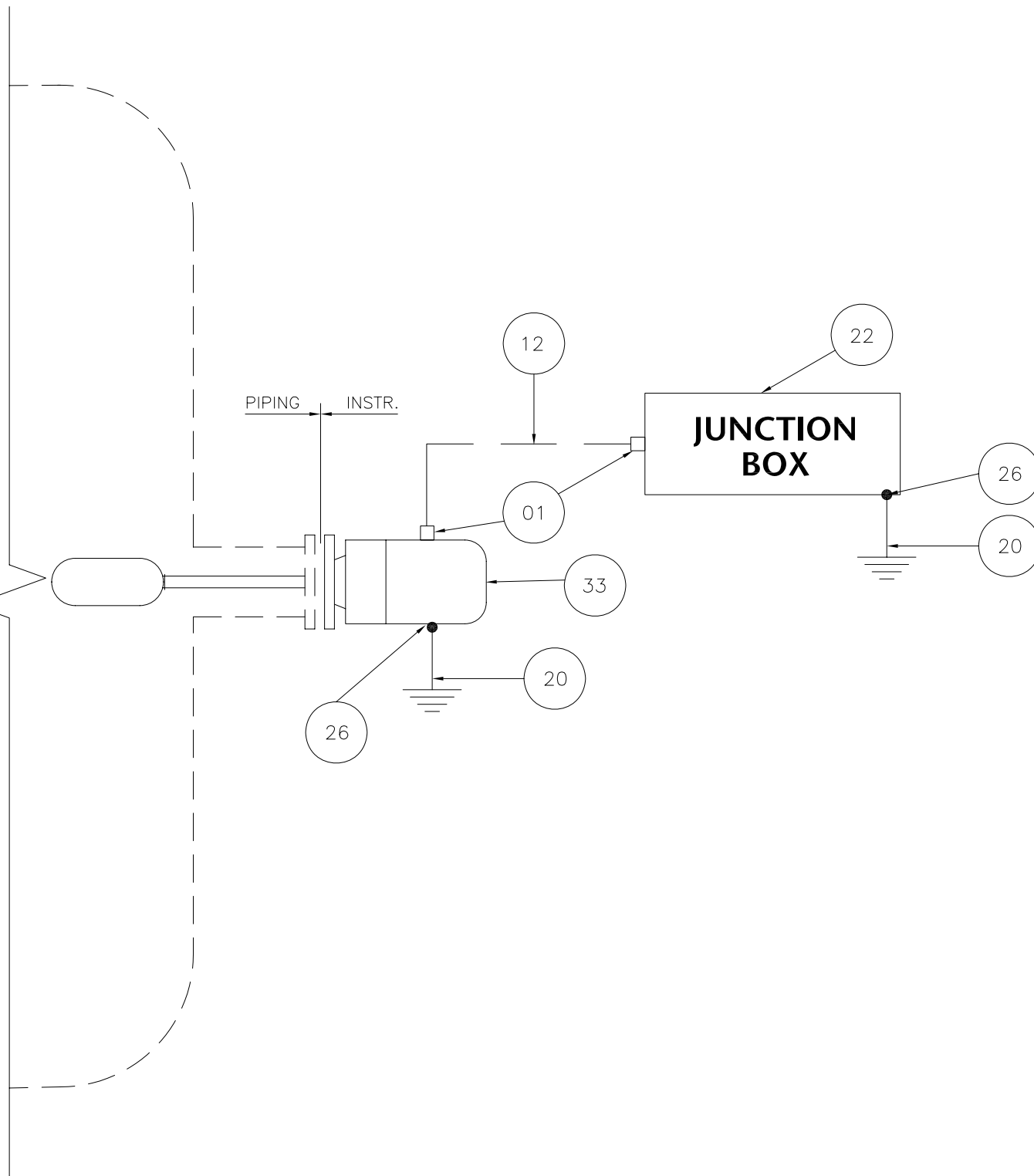
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REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
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<p>ENAR A COMPANY OF</p>	<p>ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</p>	Job No. 14-0162
		Dwg. No. 0162-IMB-6330
<p>OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT</p>		COMPUTER CODE 0162-IMB-6330-0
<p>TITLE: TYPICAL HOOK-UP DIAGRAM FOR MULTIPOINT TEMPERATURE ELEMENT WITH TRANSMITTER</p>		SHEET SIZE A4
		SCALE 1:1
		REPLACES DWG. NO.

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VESSEL



MATERIAL FOR INSTALLATION

S.NO.	DESCRIPTION	QTY
01	EExd IIC CABLE GLAND WITH BLACK SHROUD	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
22	EExd JUNCTION BOX	-
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	5 Mtr
26	EARTHING LUGS FOR 4mm ² CABLE	2 Nos
33	LEVEL SWITCH	1 Nos

APPLICABLE TAG NO.

S.NO.	TAGS	P & ID Nos.
1	20-LSLL-09	E-3588-20005A (SH 1 OF 2)
2	40-LSHH-07	E-3588-40005A-D2
3	40-LSHH-05	E-3588-40005B-D2
4	40-LSLL-06	E-3588-40005B-D2
5	40-LSHH-02	0180-A1-11
6	805-LSH-01	2310-PB-2056
7	100-LSLL-06	2310-PB-2053 (SH 1 OF 2)
8	100-LSLL-13	2310-PB-2053 (SH 1 OF 2)
9	100-LSHH-26	2310-PB-2053 (SH 2 OF 2)
10	100-LSLL-27	2310-PB-2053 (SH 2 OF 2)
11	100-LSLL-28	2310-PB-2053 (SH 2 OF 2)
12	903-LSH-01	2310-PB-2058 (SH 1 OF 2)
13	903-LSH-03	2310-PB-2058 (SH 1 OF 2)
14	903-LSH-02	2310-PB-2058 (SH 2 OF 2)
15	902-LSHH-01	2310-PB-2063
16	902-LSHH-02	2310-PB-2063
17	902-LSL-01	2310-PB-2063
18	804-LSH-01	2310-PB-2062
19	50-LSLL-051	2310-PB-2110

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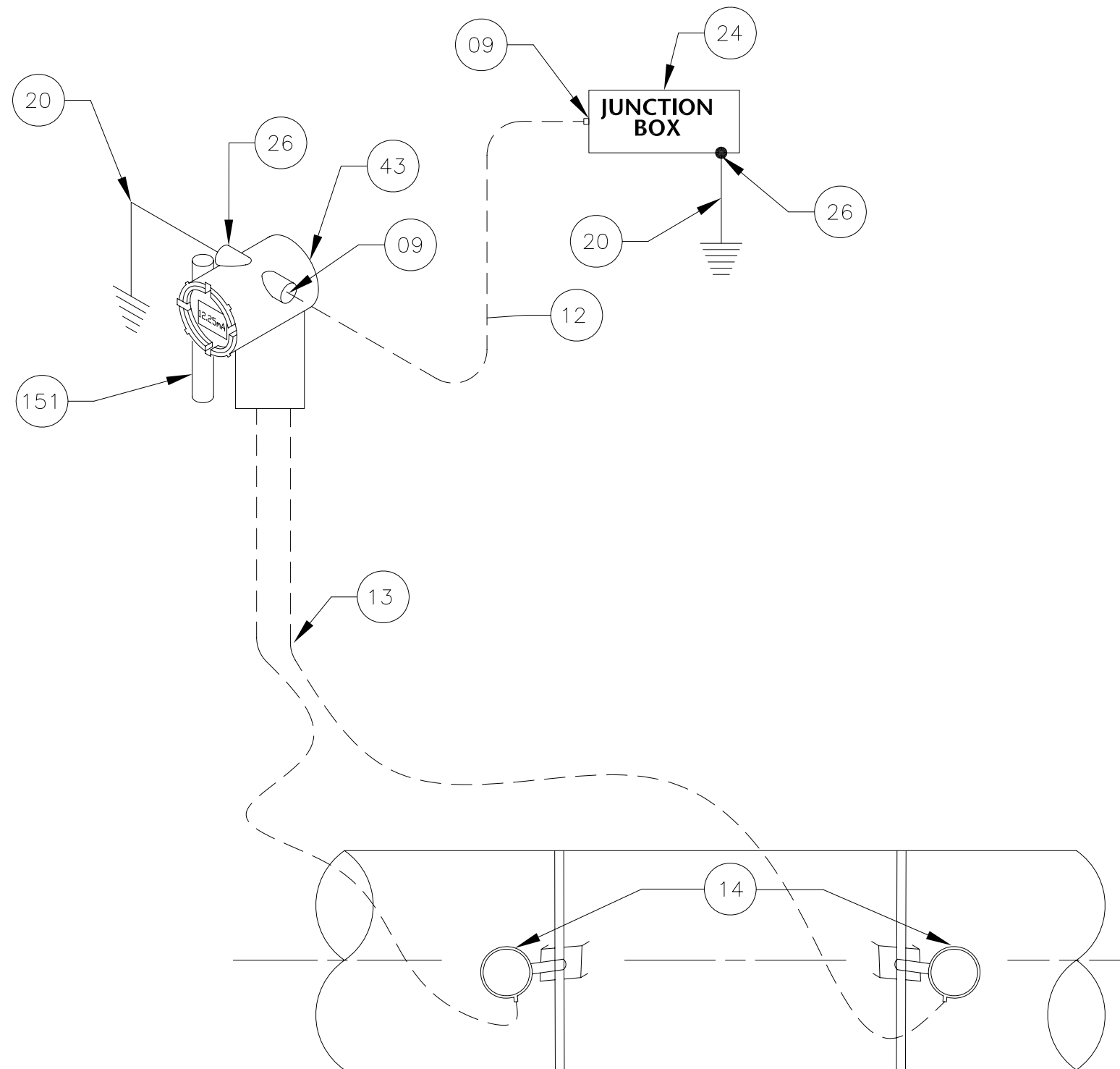
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 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan
 TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk

OIL & GAS DEVELOPMENT COMPANY LIMITED
 DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT

TITLE: TYPICAL HOOK-UP DIAGRAM FOR LEVEL SWITCH

Job No. 14-0162
 Dwg. No. 0162-IMB-6331

COMPUTER CODE 0162-IMB-6331-0
 SHEET SIZE A4
 SCALE 1:1
 REPLACES DWG. NO.



MATERIAL FOR INSTALLATION

ITEM No	DESCRIPTION	QTY
09	EExd/e IIC T6 CABLE GLAND WITH BLACK SHROUD 20S M20	-
12	INSTRUMENT CABLE OUTER SHEATH BLACK 1 x 2 x 1.5mm ²	-
24	EExd/e JUNCTION BOX	-
43	ULTRASONIC FLOWMETER	01 Nos
20	YELLOW GREEN 4mm ² EARTHING CONDUCTOR	05 Mtr
26	EARTHING LUGS	02 Nos
151	INSTRUMENT PIPE SUPPORT 2" CS GALVANIZED	01 Nos
13	SENSOR CABLE	-
14	CLAMP ON SENSOR	02 Nos

APPLICABLE TAG NO.


S.NO.	TAGS	P & ID No.
1	902-UFM-01	2310-PB-2063

NOTES:-

1. ALL DIMENSION ARE IN MM UNLESS OTHER WERE STATED.
2. INSTALLATION MATERIALS ARE SHOWN FOR ONE TAG ONLY.

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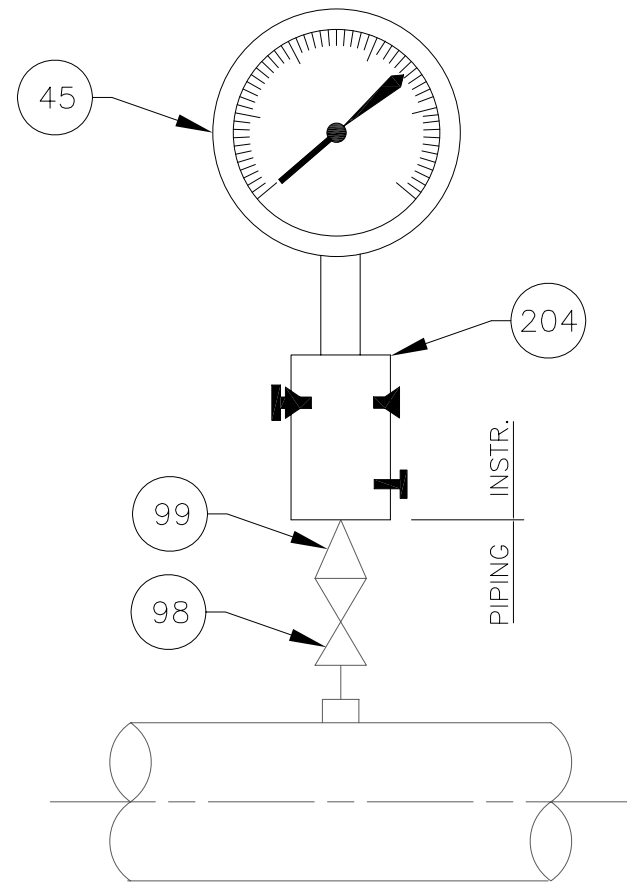
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URL: www.enar.com.pk

Job No. **14-0162**
Dwg. No. **0162-IMB-6332**

OIL & GAS DEVELOPMENT COMPANY LIMITED
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT

TITLE: **TYPICAL HOOK-UP DIAGRAM FOR ULTRASONIC FLOWMETER**

COMPUTER CODE	0162-IMB-6332-0
SHEET SIZE	A4
SCALE	1:1
REPLACES DWG. NO.	



MATERIAL FOR INSTALLATION

ITEM No	DESCRIPTION	QTY
204	316 SS 2 VALVE MANIFOLD 1/2" NPTF	01 Nos
45	PRESSURE GAUGE	01 Nos
98	3/4" NPTF ISOLATION VALVE	01 Nos
99	3/4"x 1/2" NPTM SWAGE NIPPLE	01 Nos

APPLICABLE TAG NO.


S.NO.	DESCRIPTION	P & ID No
1	20-PI-15	E3588-20005A
2	40-PI-15	E3588-40005B-D1
3	50-PI-15	E3588-50005A (SH-1 OF 3)
4	50-PI-16	E3588-50005A (SH-1 OF 3)
5	60-PI-15	E3588-60005A-D1
6	60-PI-16	E3588-60005A-D1
7	60-PI-17	E3588-60005A-D1
8	100-PI-15	2310-PB-2070
9	805-PI-15	2310-PB-2057
10	805-PI-16	2310-PB-2057
11	805-PI-17	2310-PB-2057
12	805-PI-18	2310-PB-2057

NOTES:-

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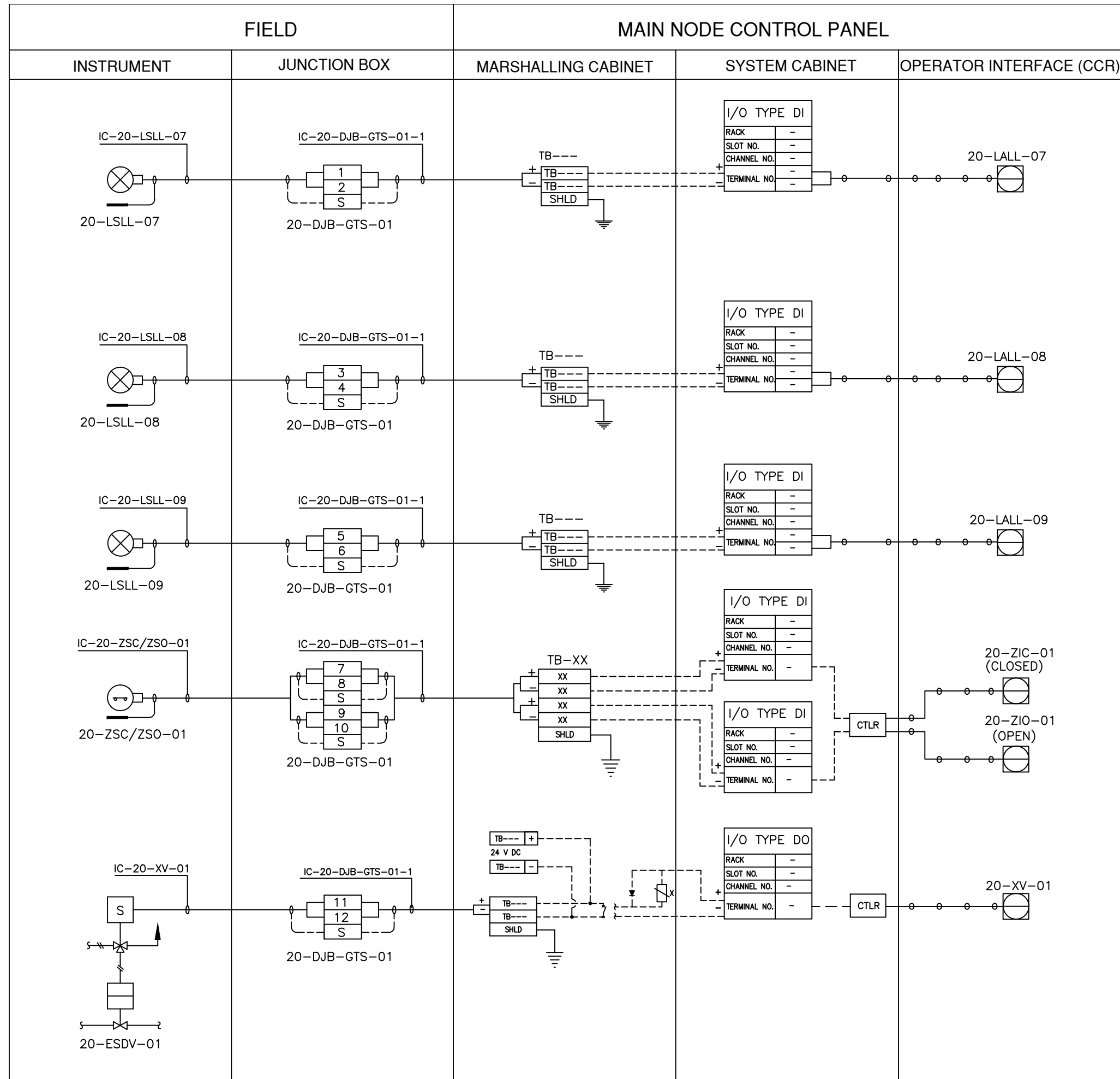
OIL & GAS DEVELOPMENT COMPANY LIMITED
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT

TITLE: TYPICAL HOOK-UP DIAGRAM FOR PRESSURE GAUGE

Job No. 14-0162
Dwg. No. 0162-IMB-6333

COMPUTER CODE: 0162-IMB-6333-0
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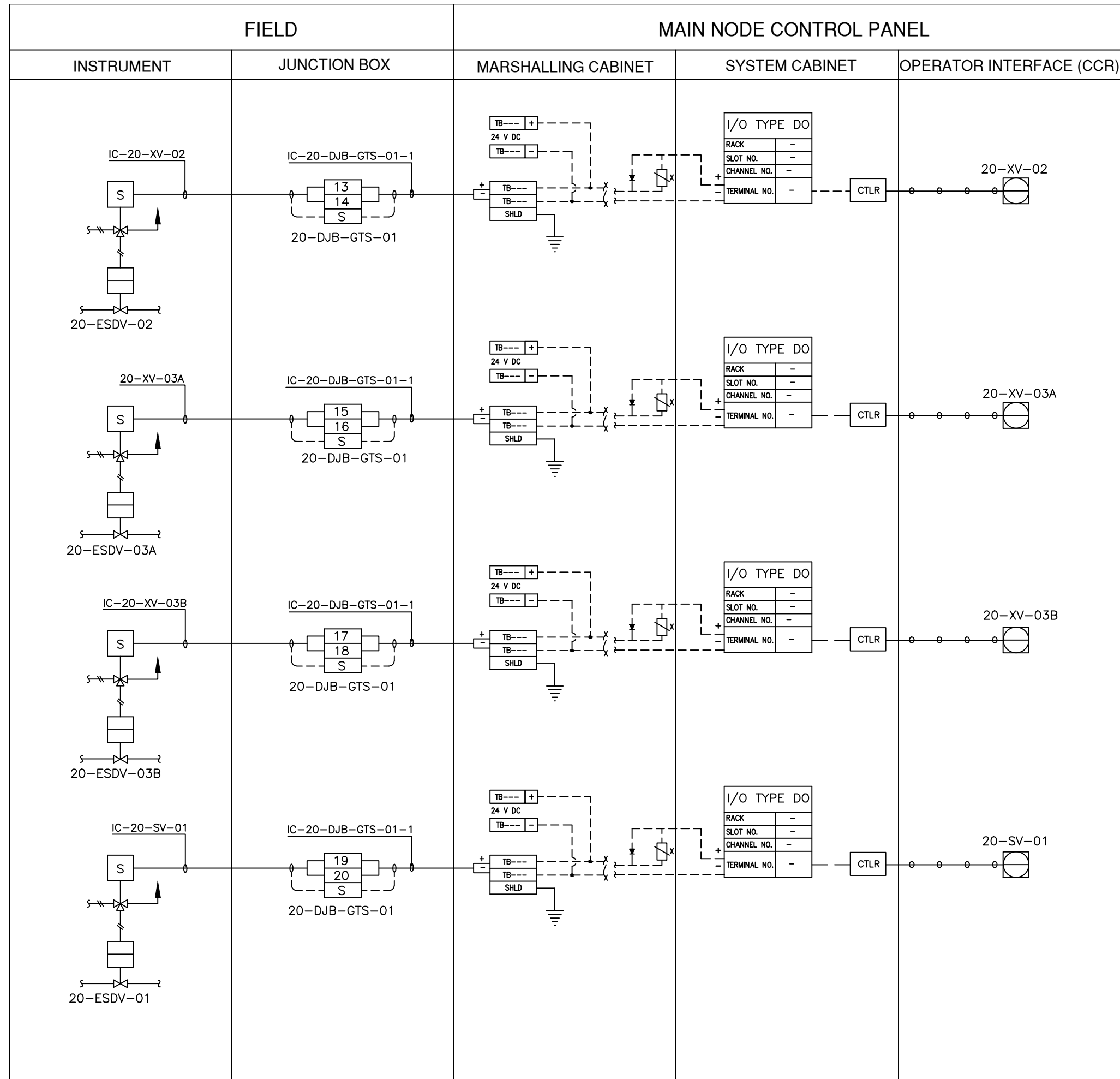
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OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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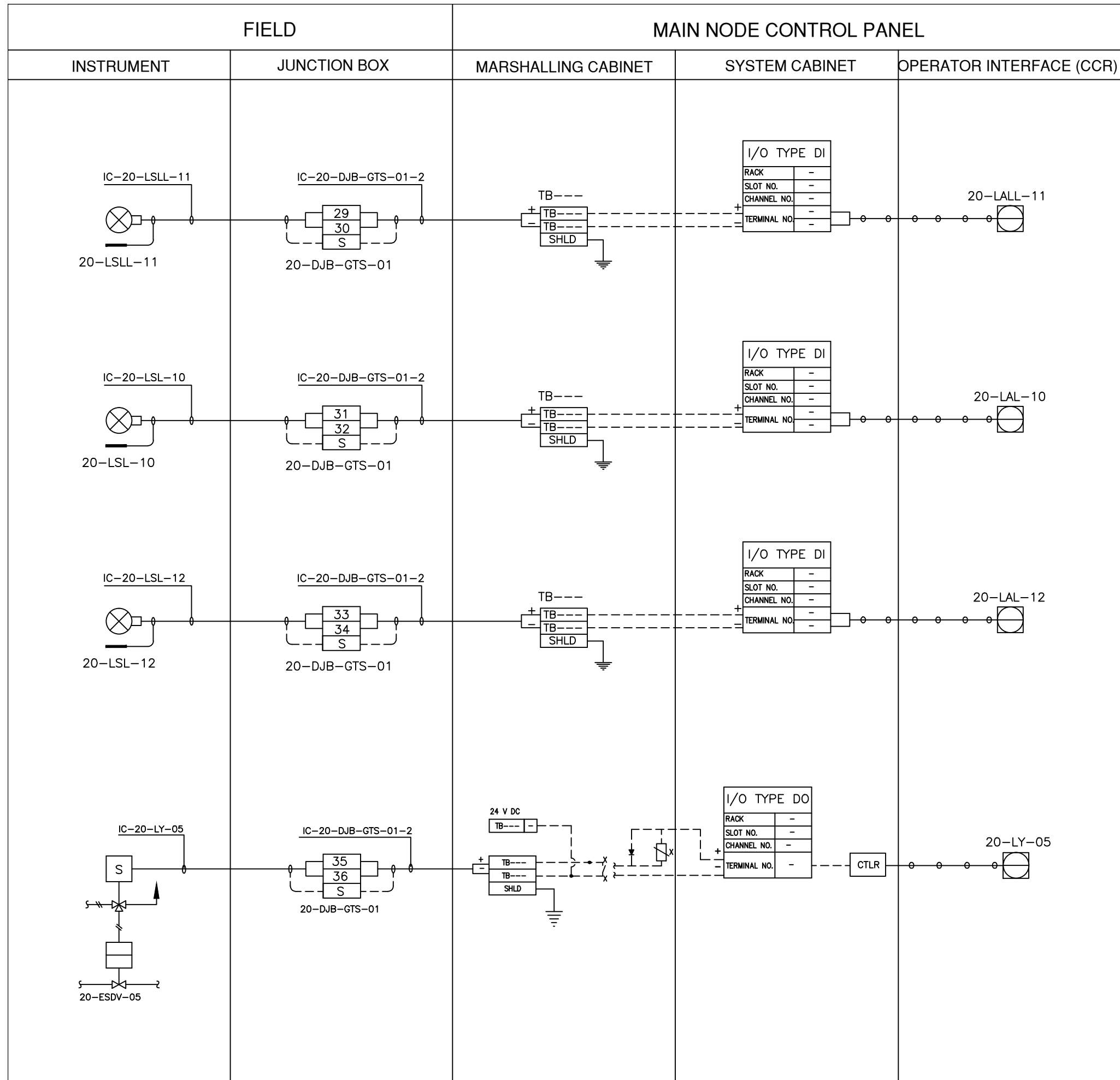
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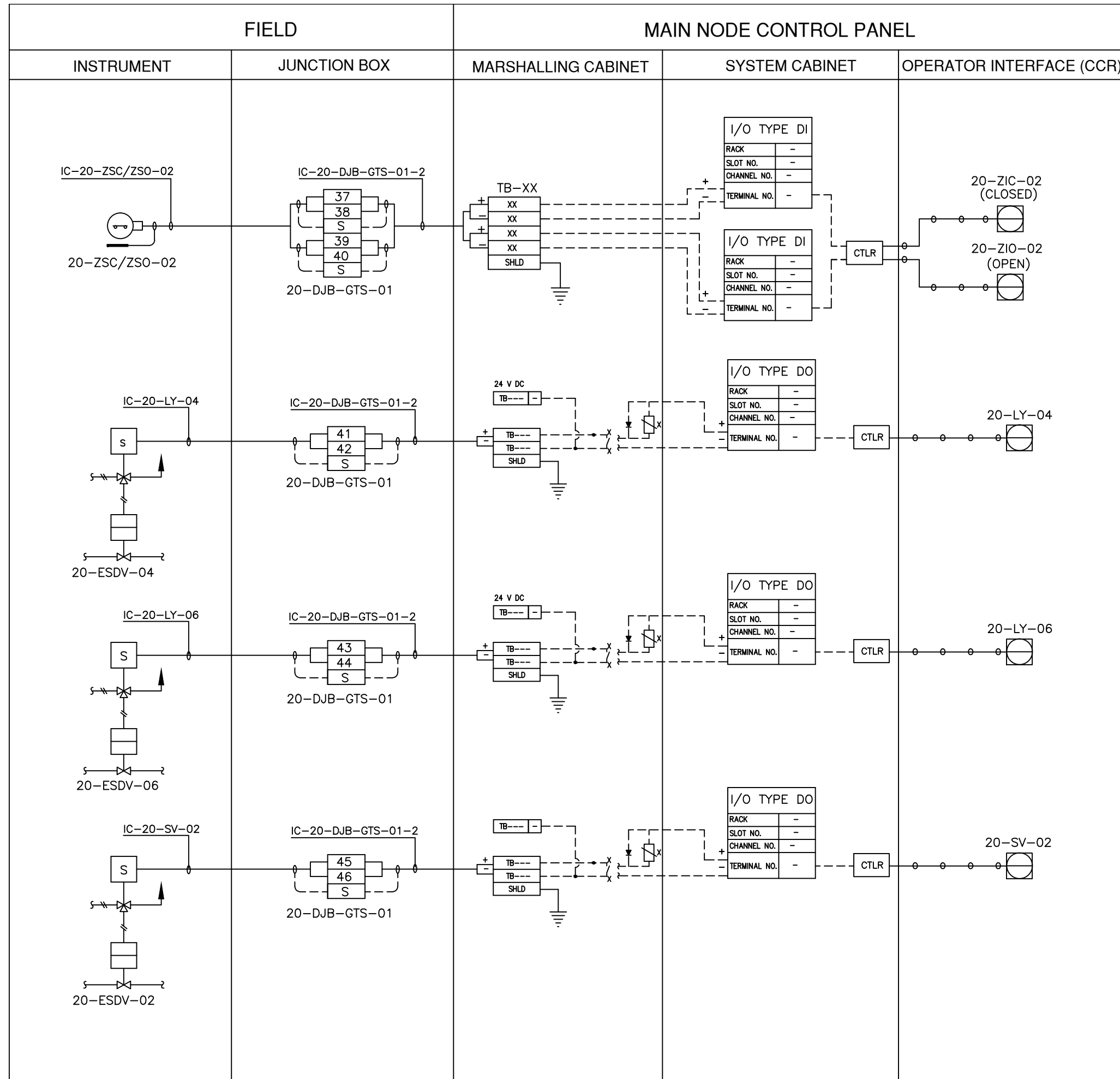
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OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT			COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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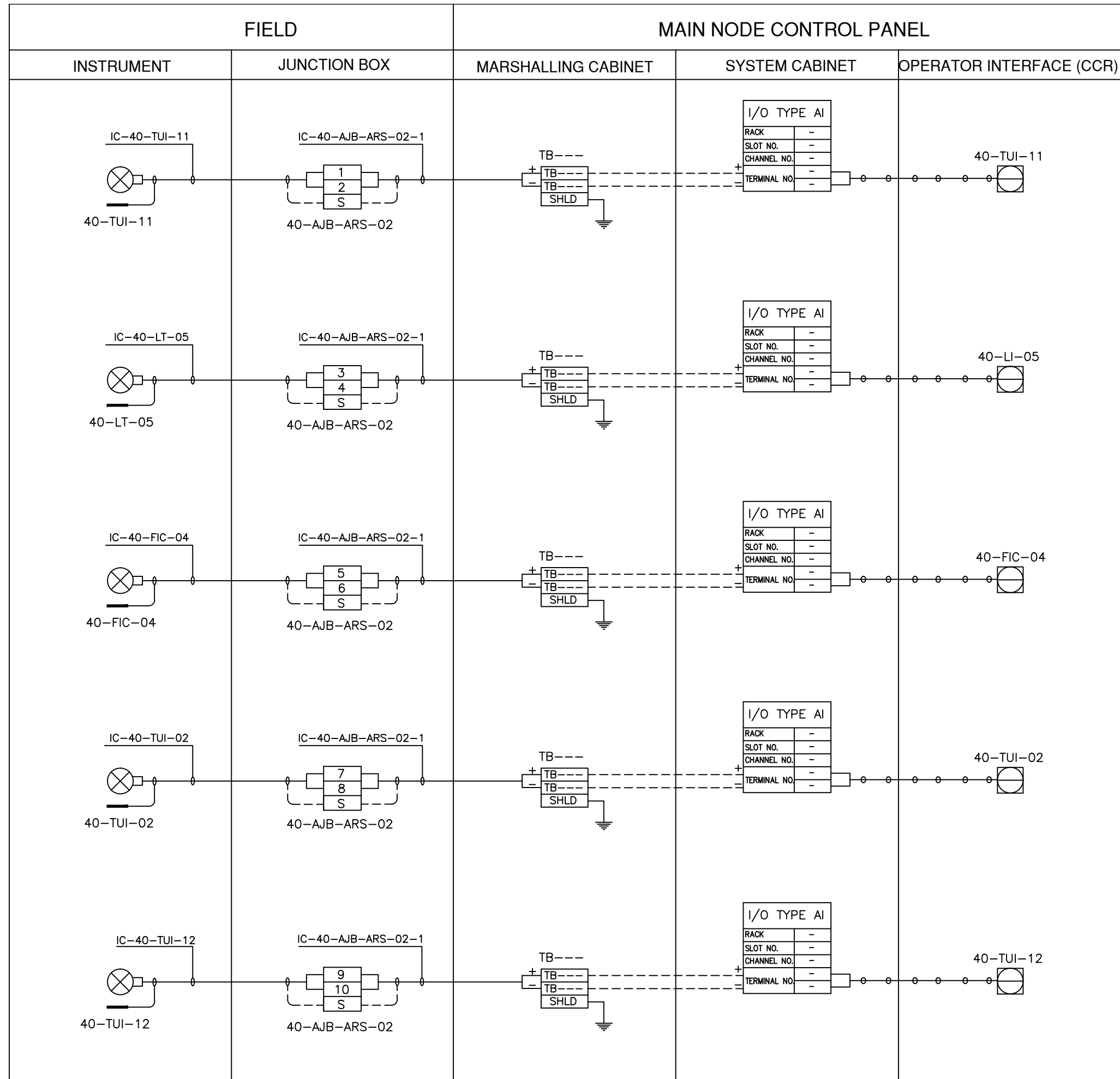


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DAKHNI GAS PLANT INSTRUMENT UPGRADE PROJECT			SHEET:- 4			
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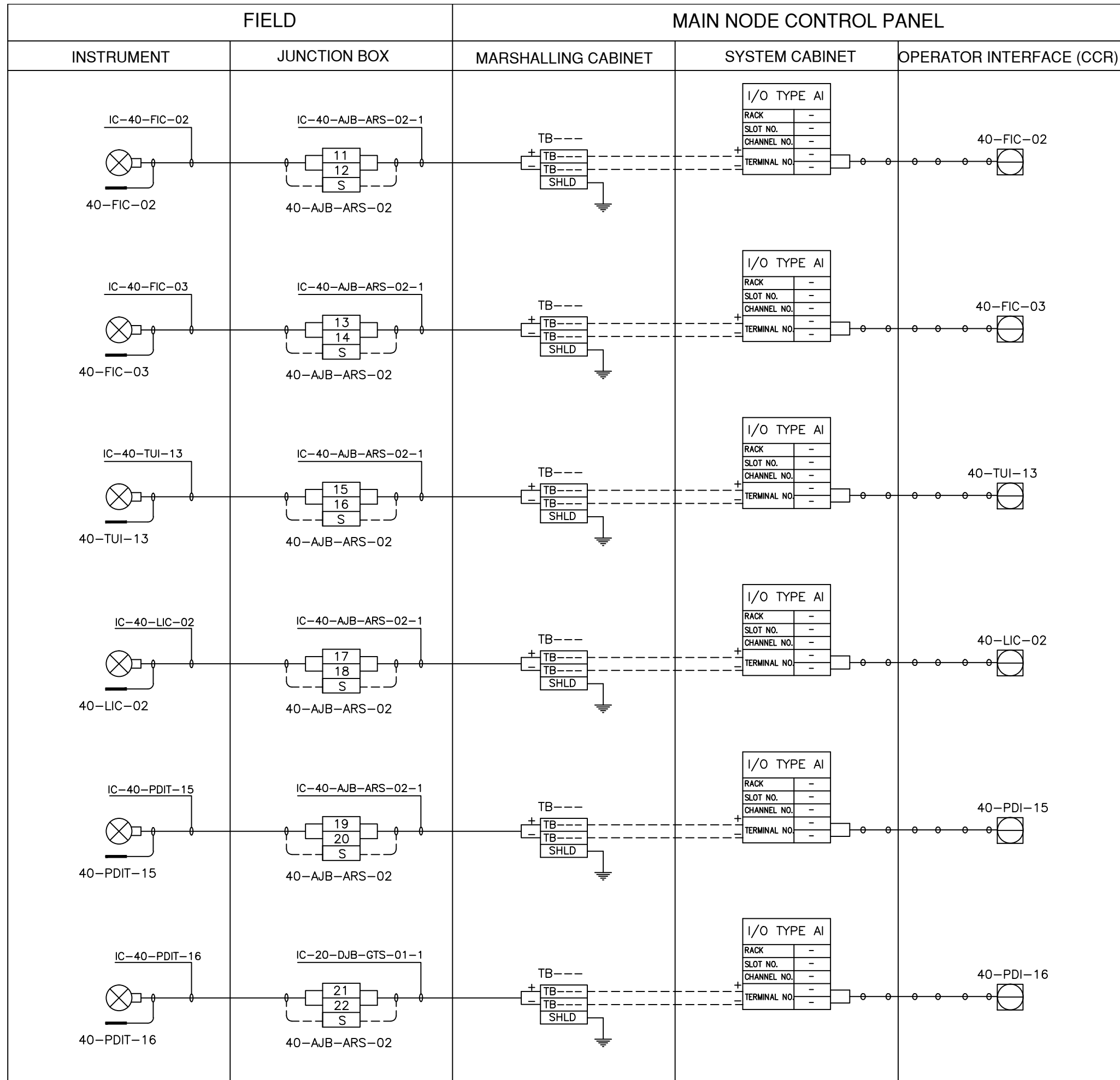


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		OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT		Dwg. No. 0162-IMF-6380			
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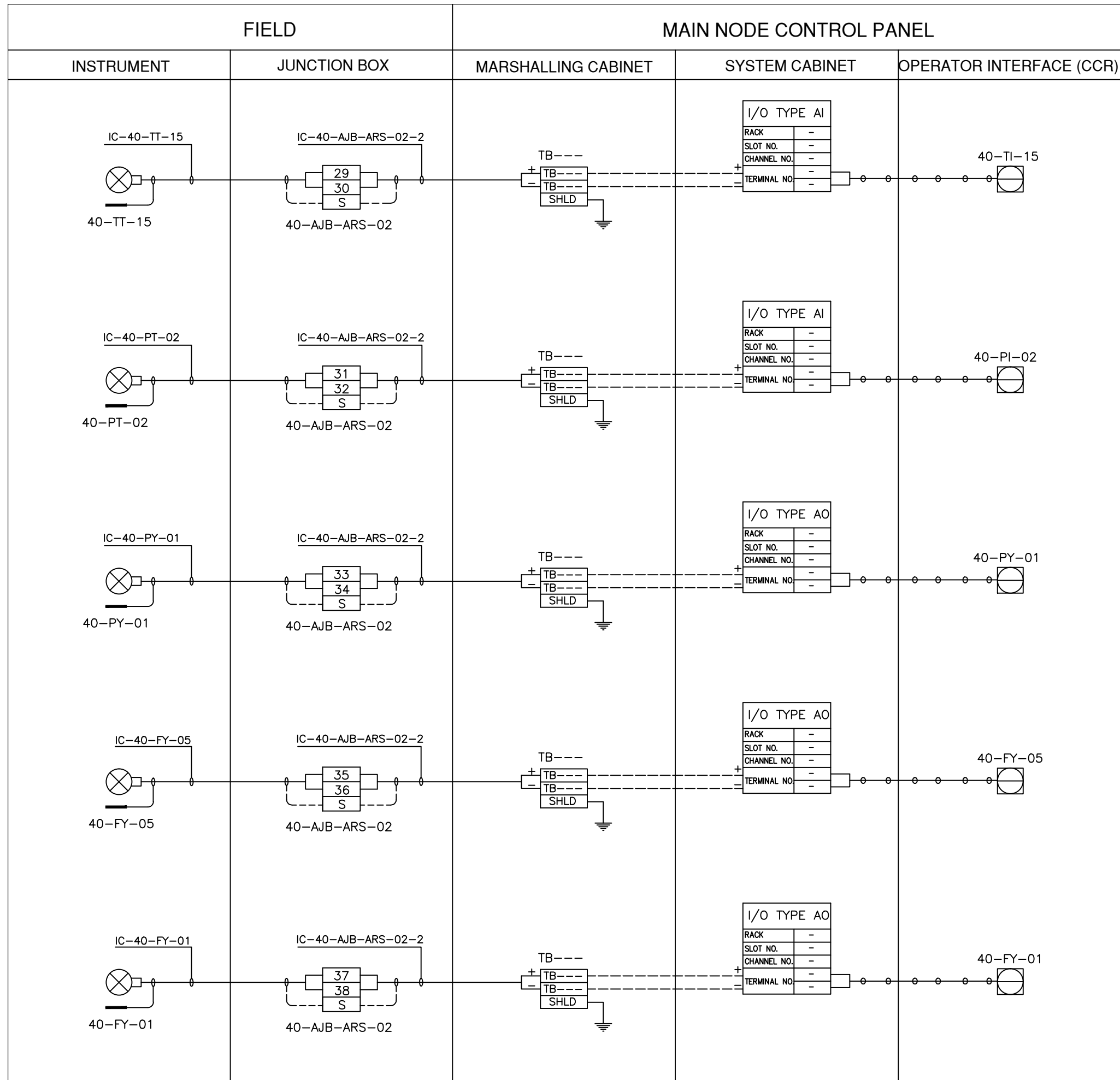


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		OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGADATION PROJECT	COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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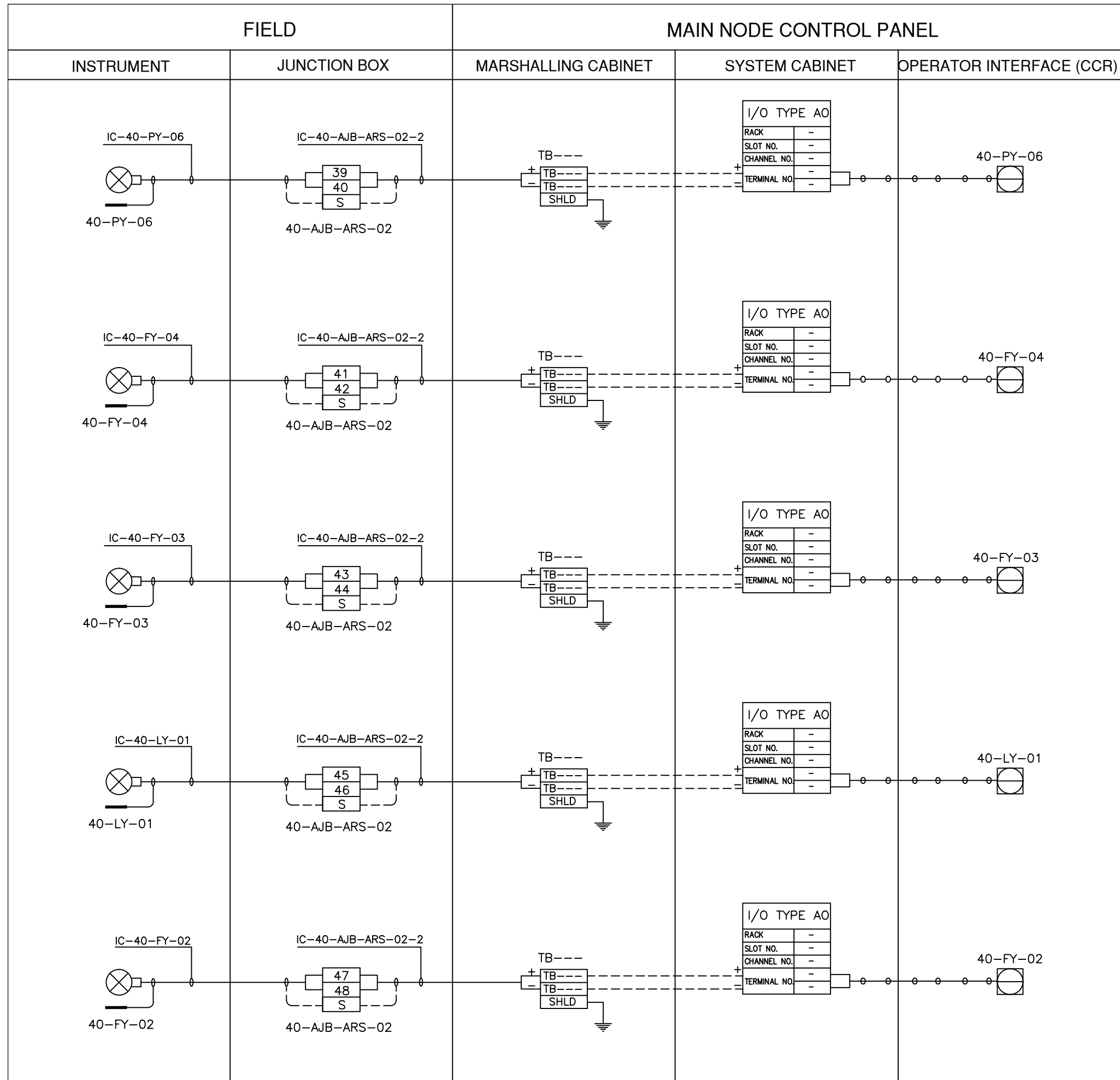


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		OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT		COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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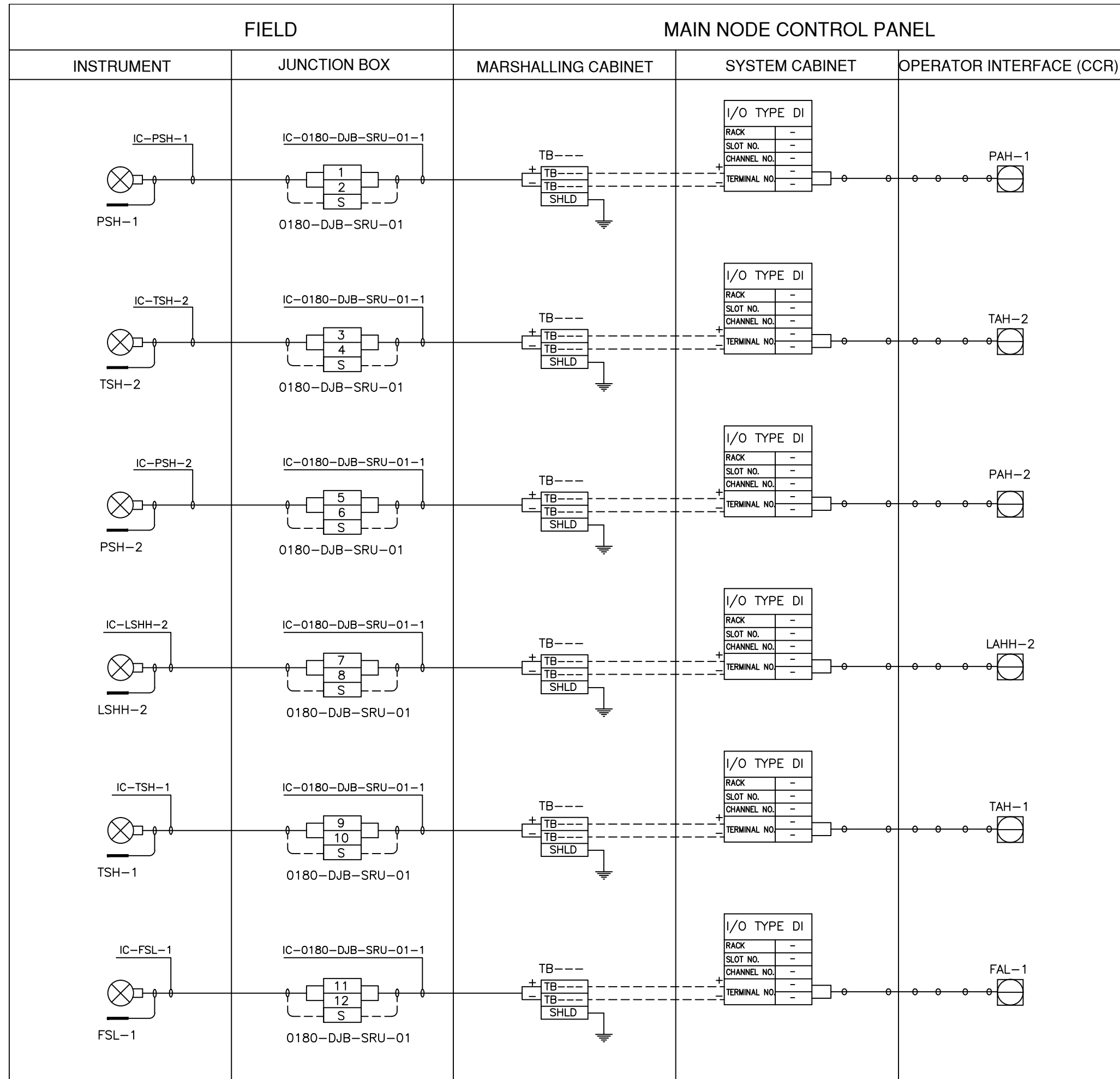


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		OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT	COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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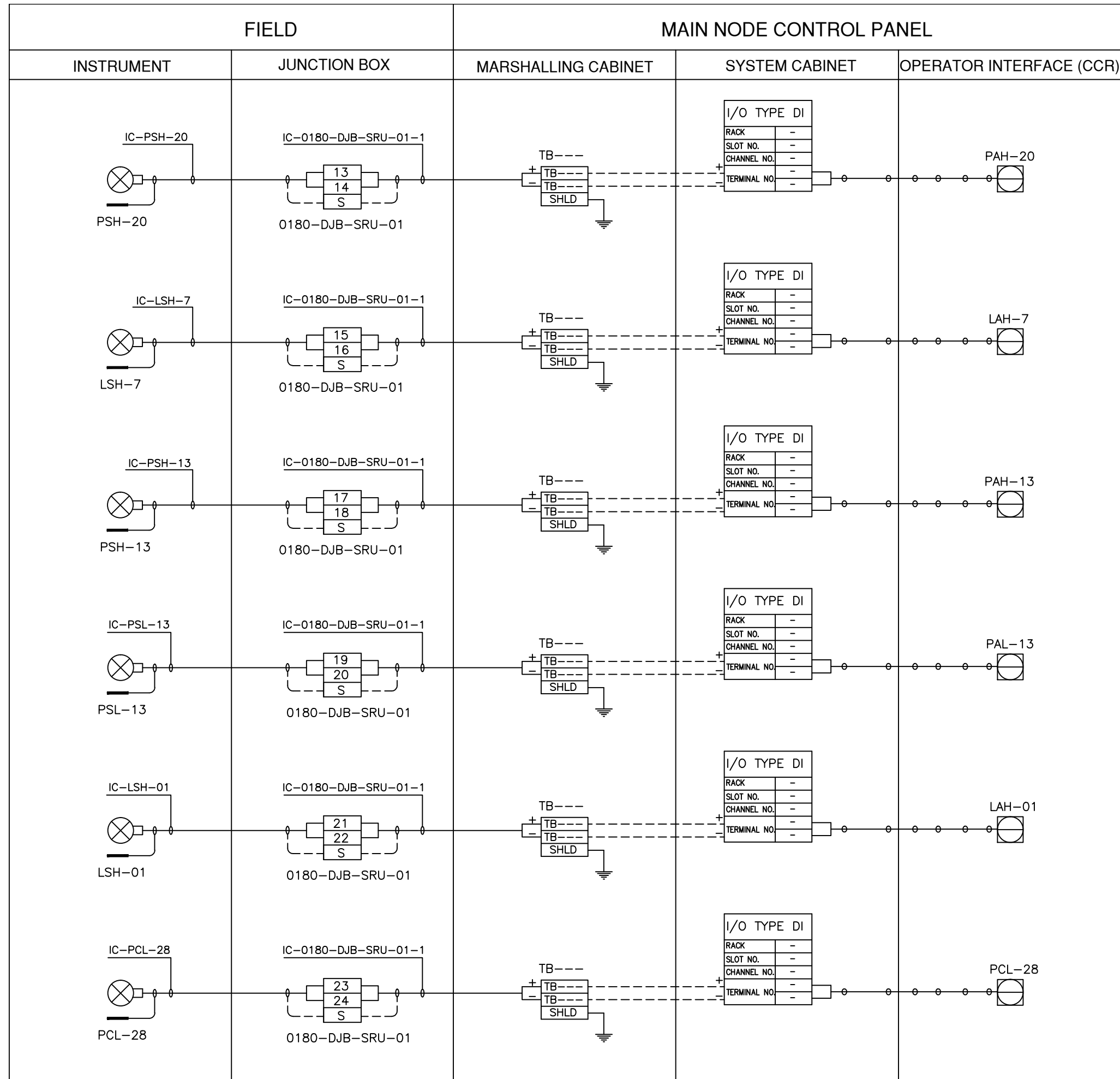
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OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			SHEET:- 9			
TITLE: INSTRUMENT LOOP DRAWING			COMPUTER CODE	0162-IMF-6380-0		
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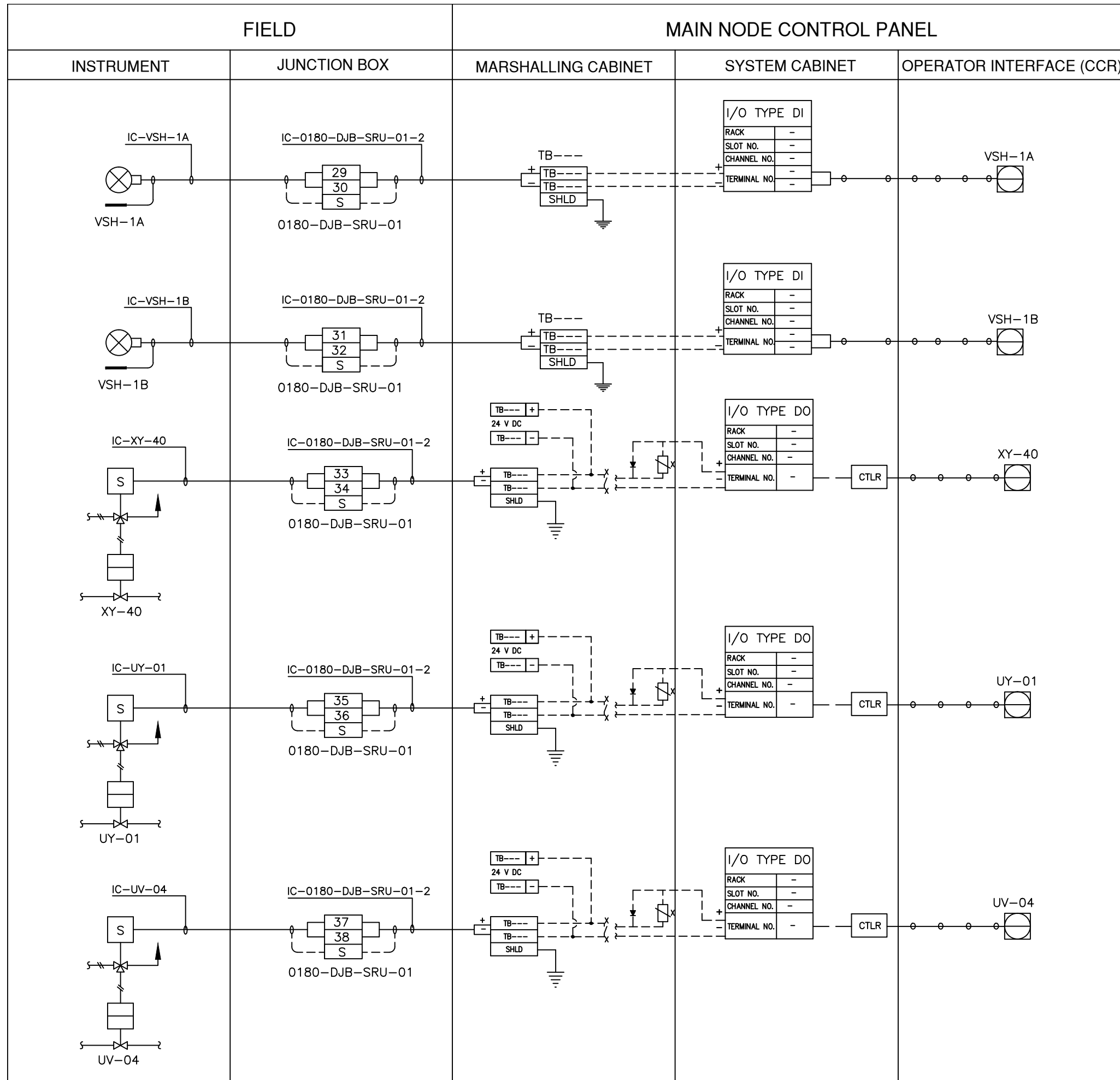


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OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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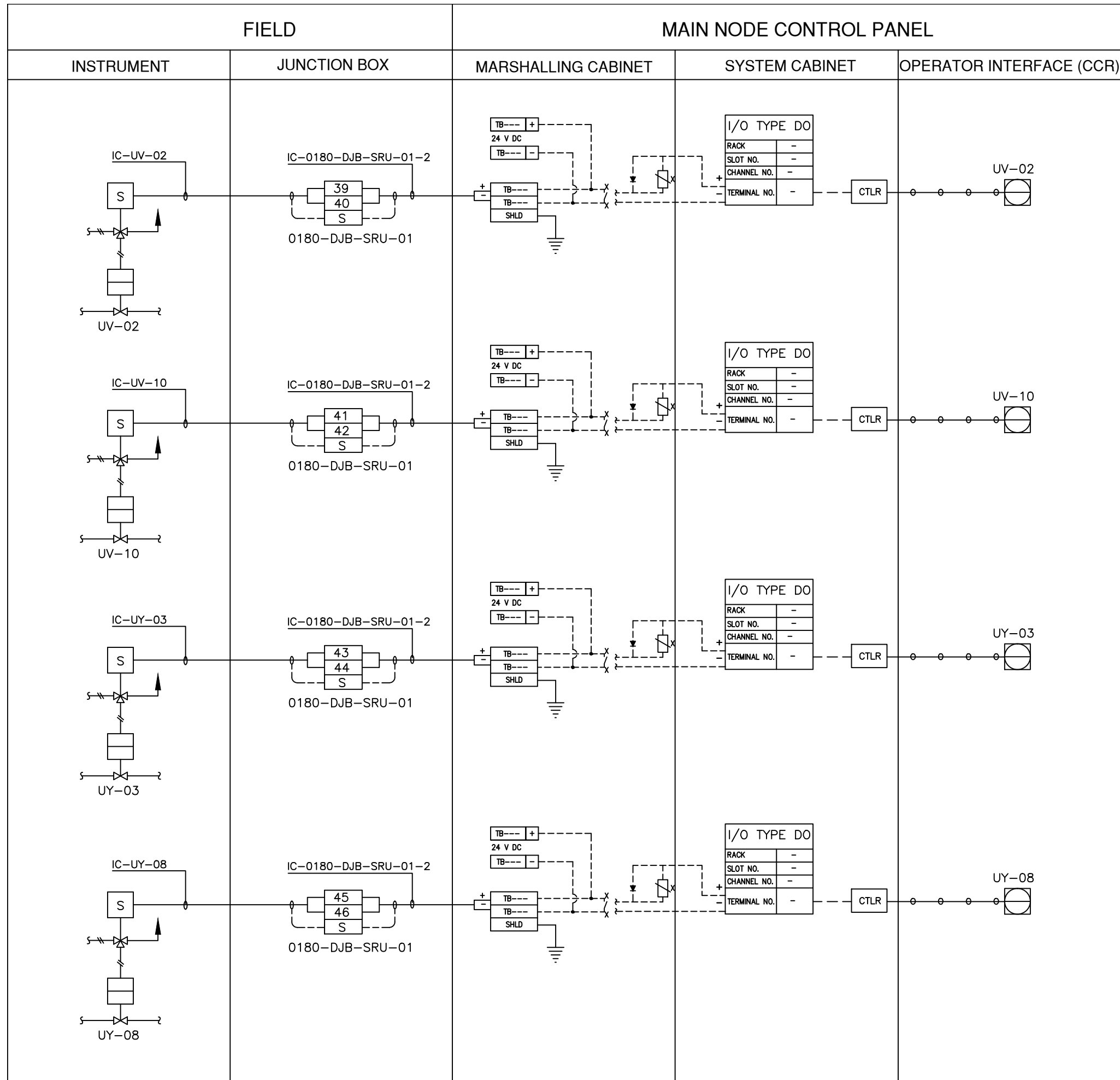


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0	18-01-2017	ISSUED FOR REVIEW AND APPROVAL	MAZ	WAS	NAS	NAS	
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.	
		 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk	Job No. 14-0162		Dwg. No.		
			0162-IMF-6380		SHEET:- 11		
		OIL & GAS DEVELOPMENT COMPANY LIMITED		COMPUTER CODE 0162-IMF-6380-0		SHEET SIZE A4	
		DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT		SCALE 1:1		REPLACES DWG. NO.	
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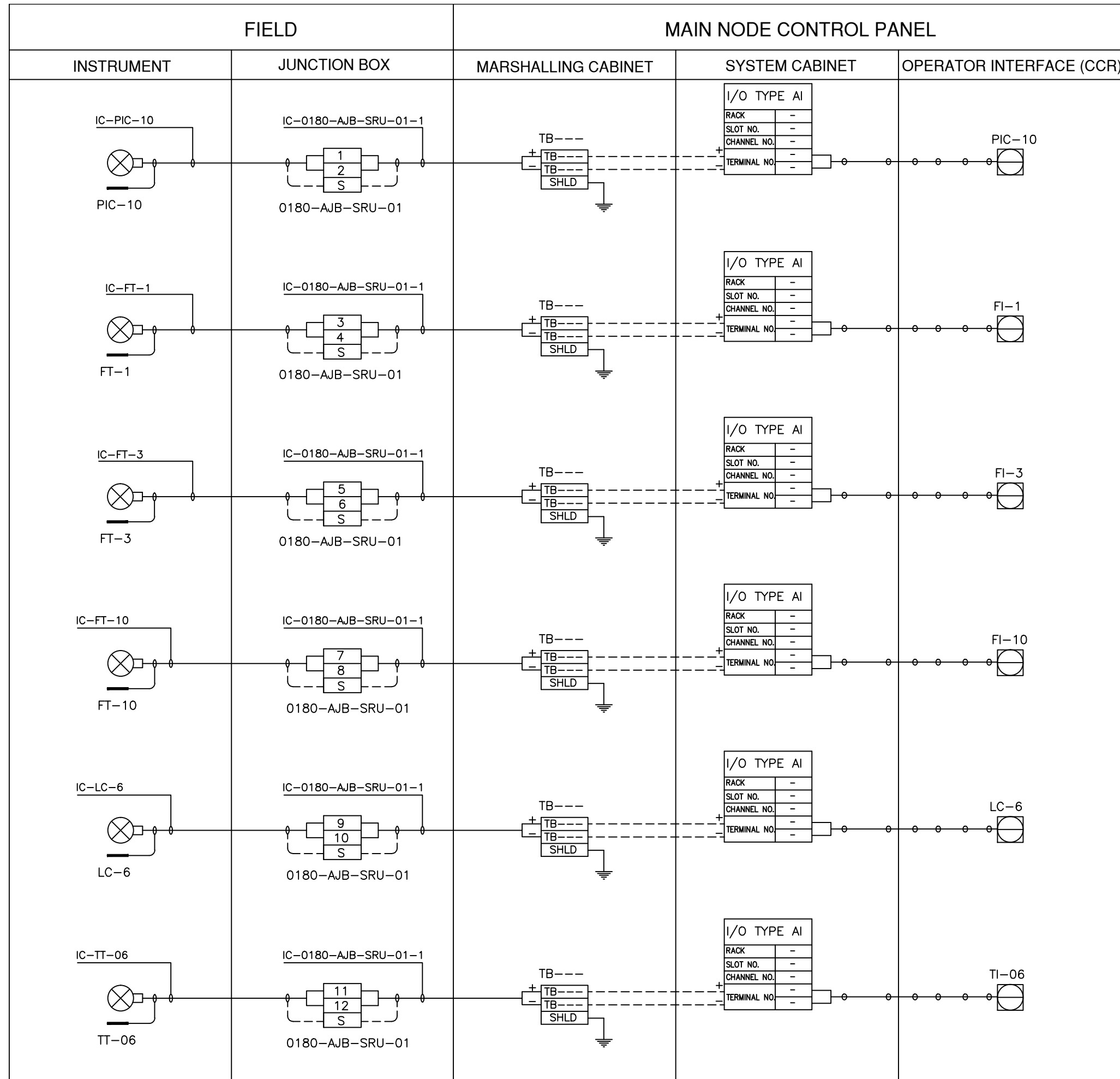
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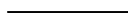
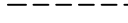

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REV.	DATE	DESCRIPTION OF REVISION	DRAWN	DESIGNED	CHECKED	APPR.
		ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>	Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 12			
OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT		COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.				
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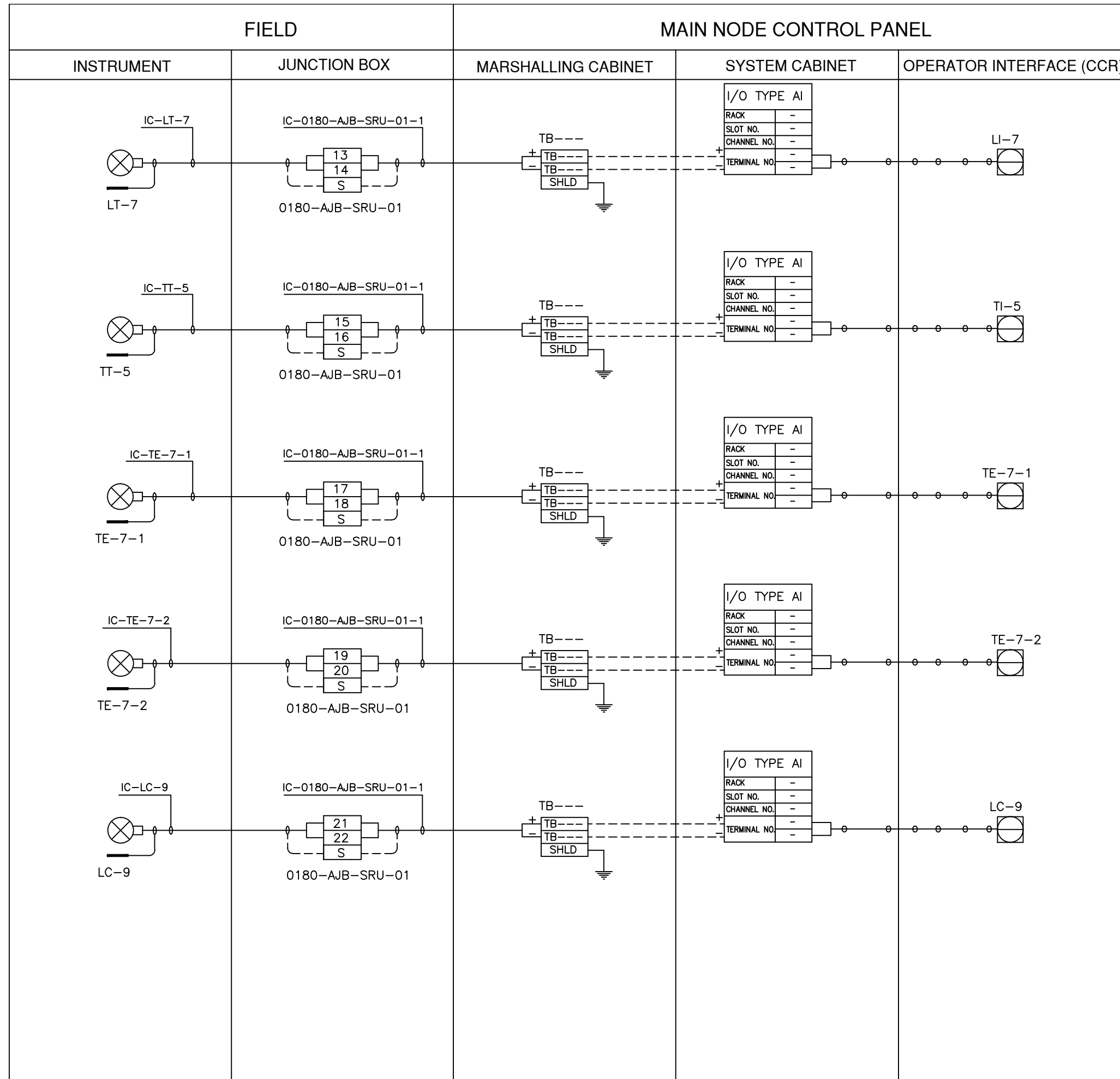


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		 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL:www.enar.com.pk	Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 13			
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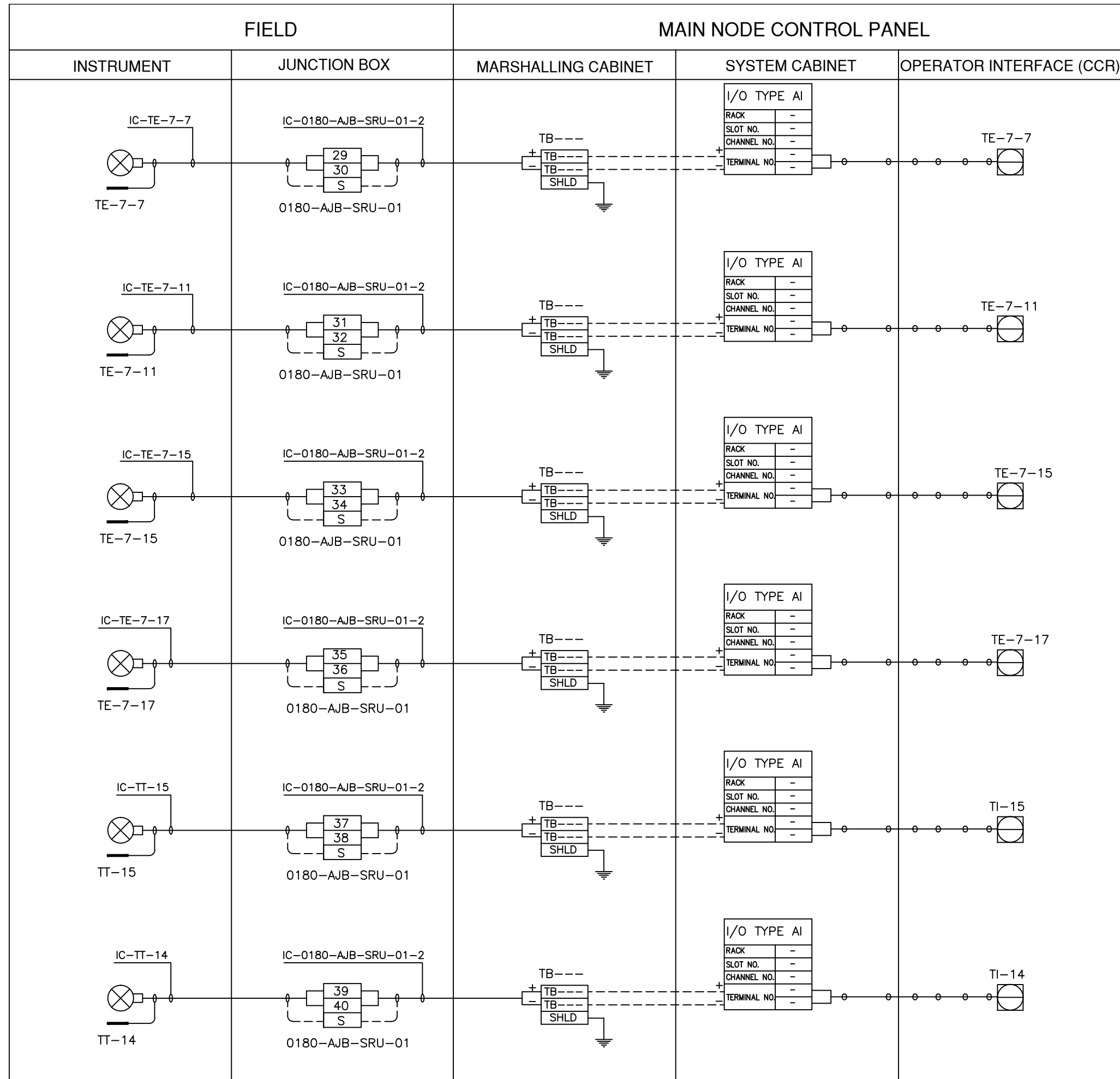
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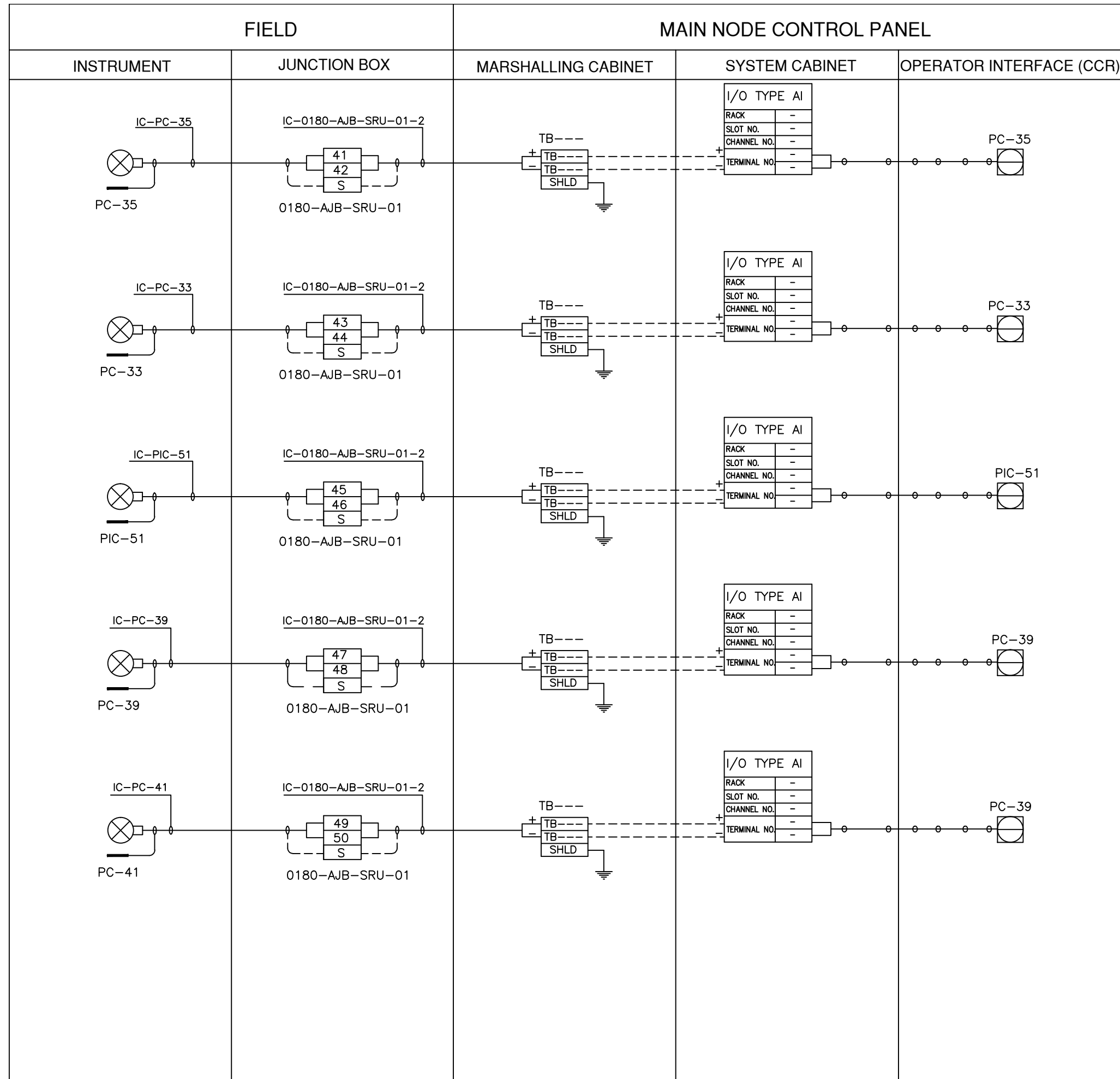


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OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
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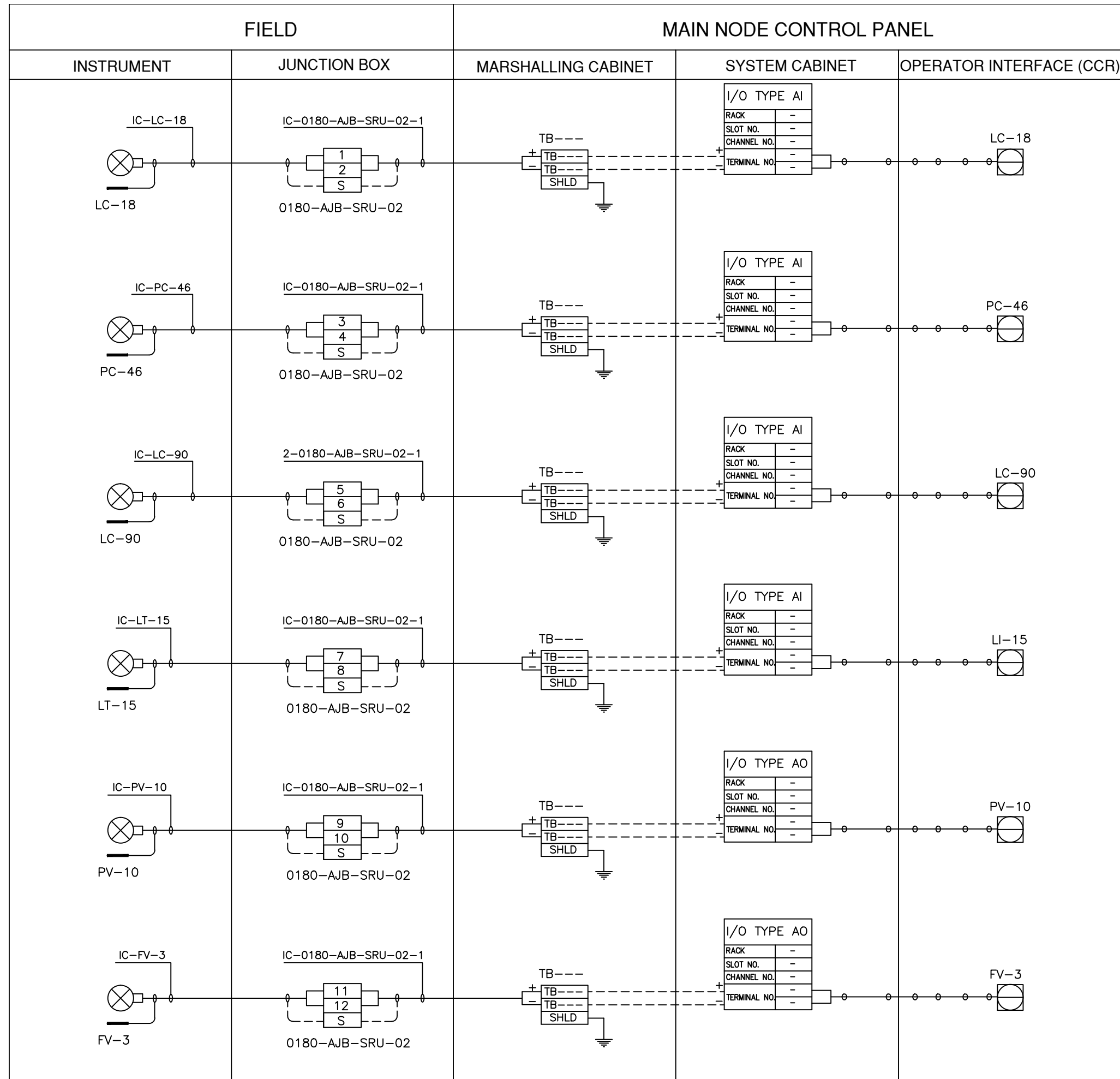
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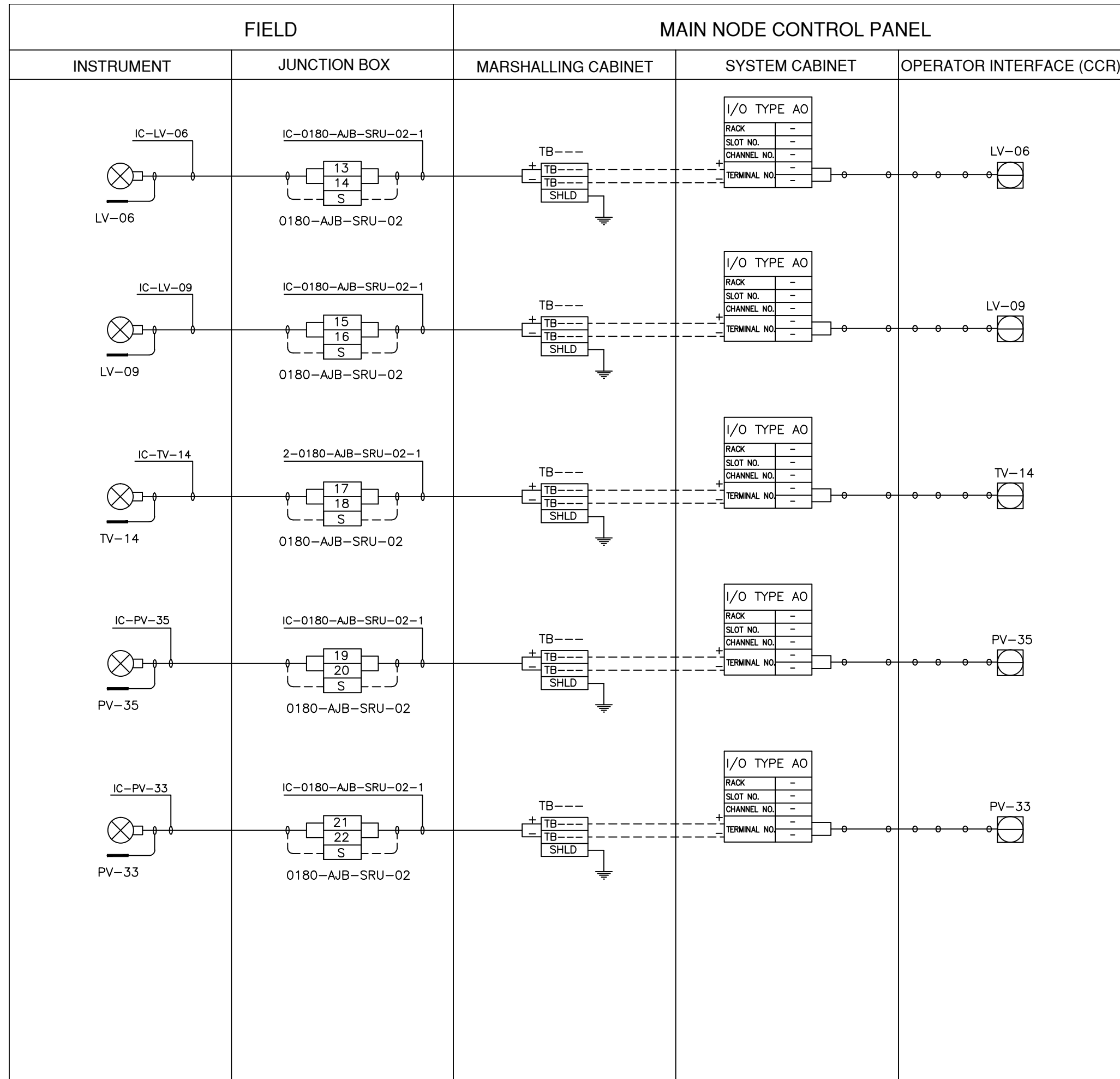
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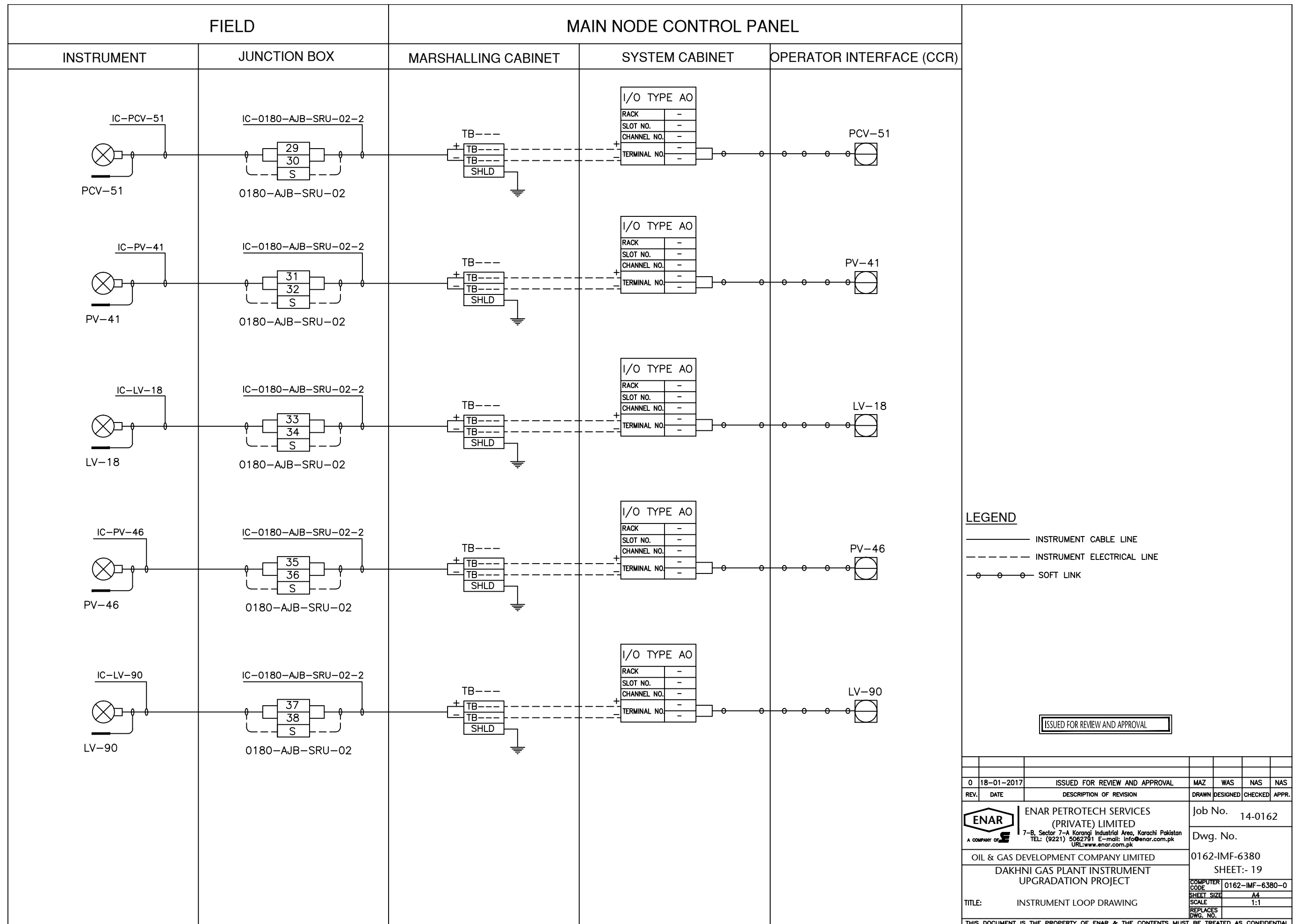
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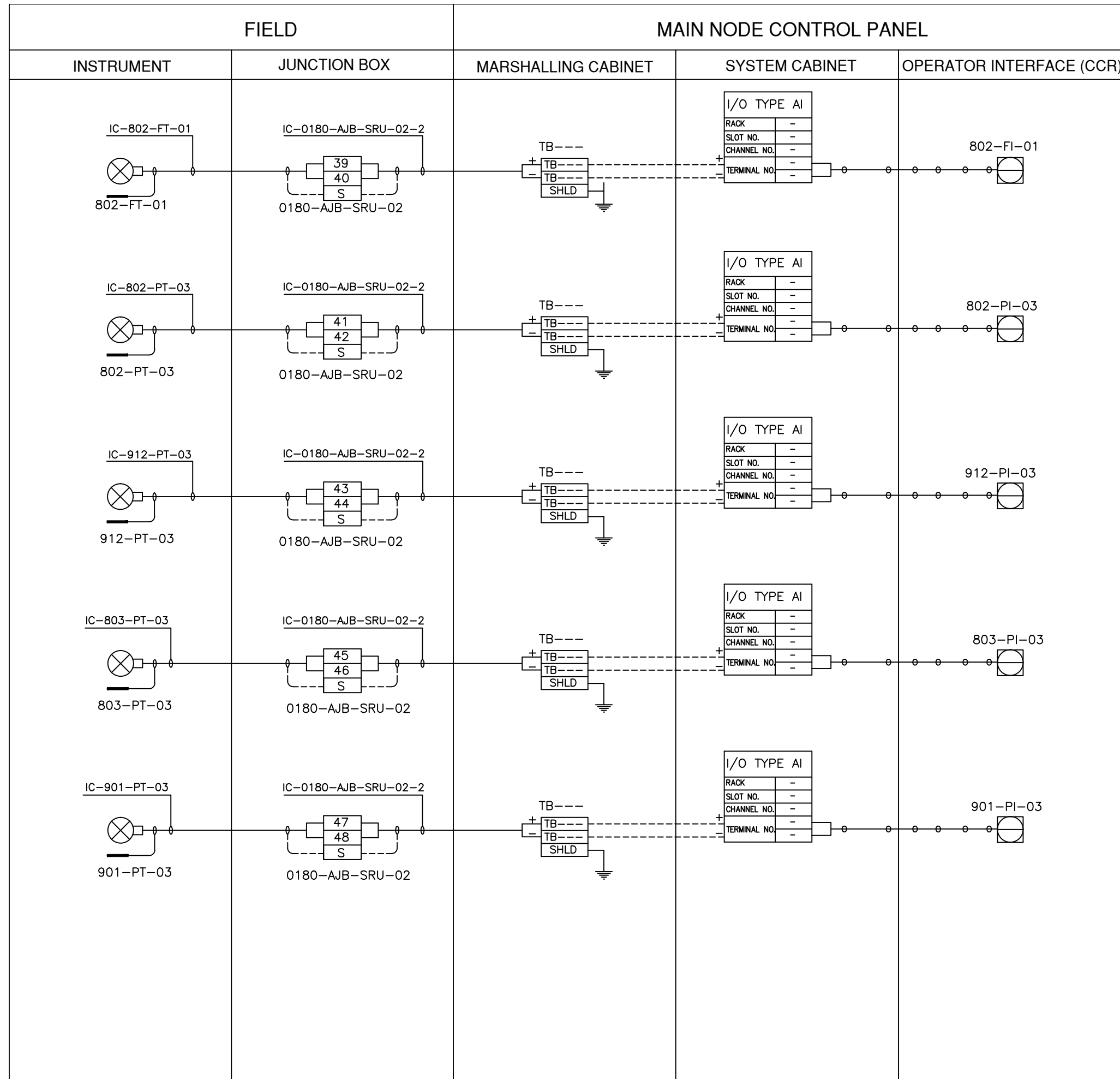


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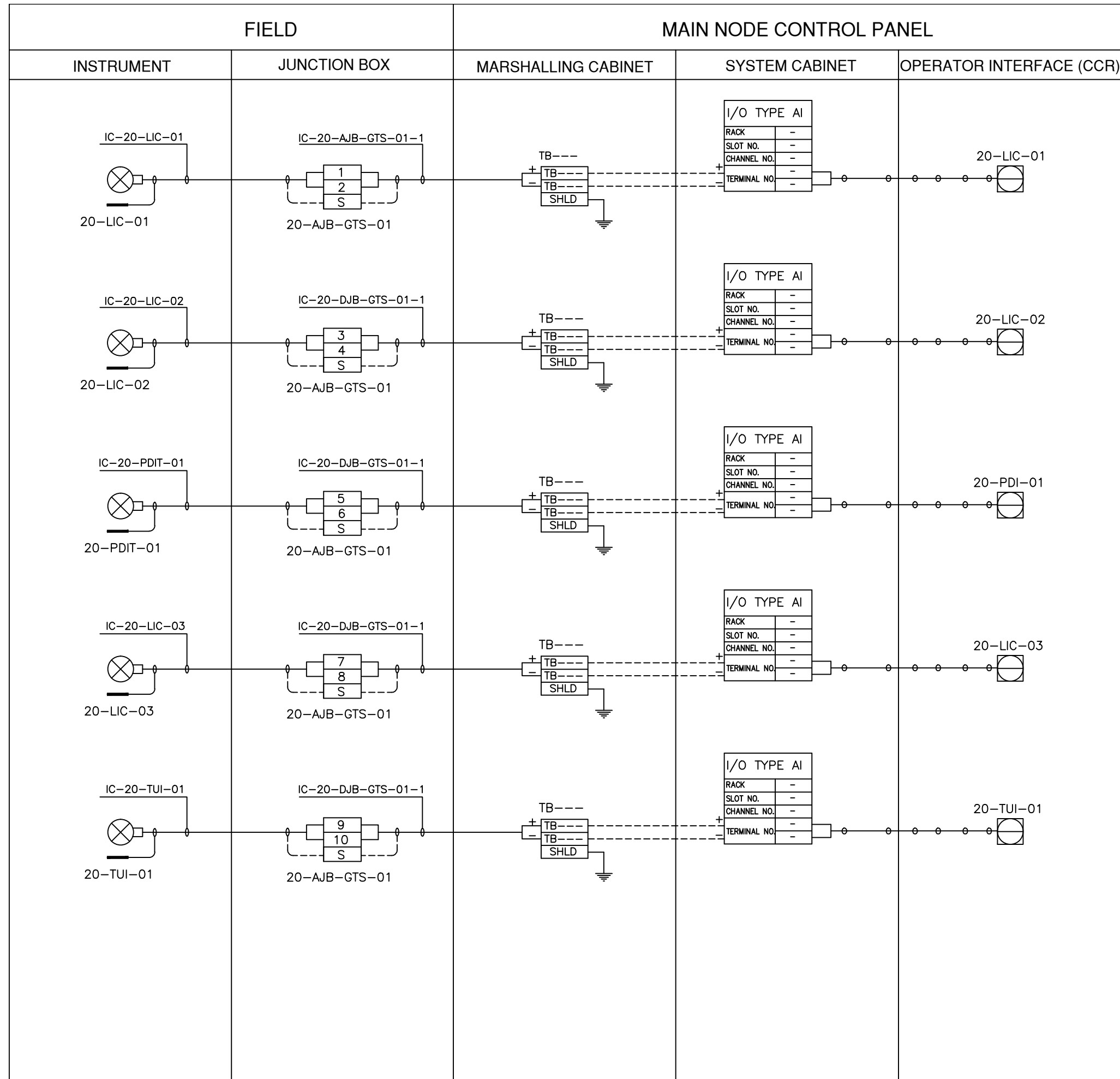
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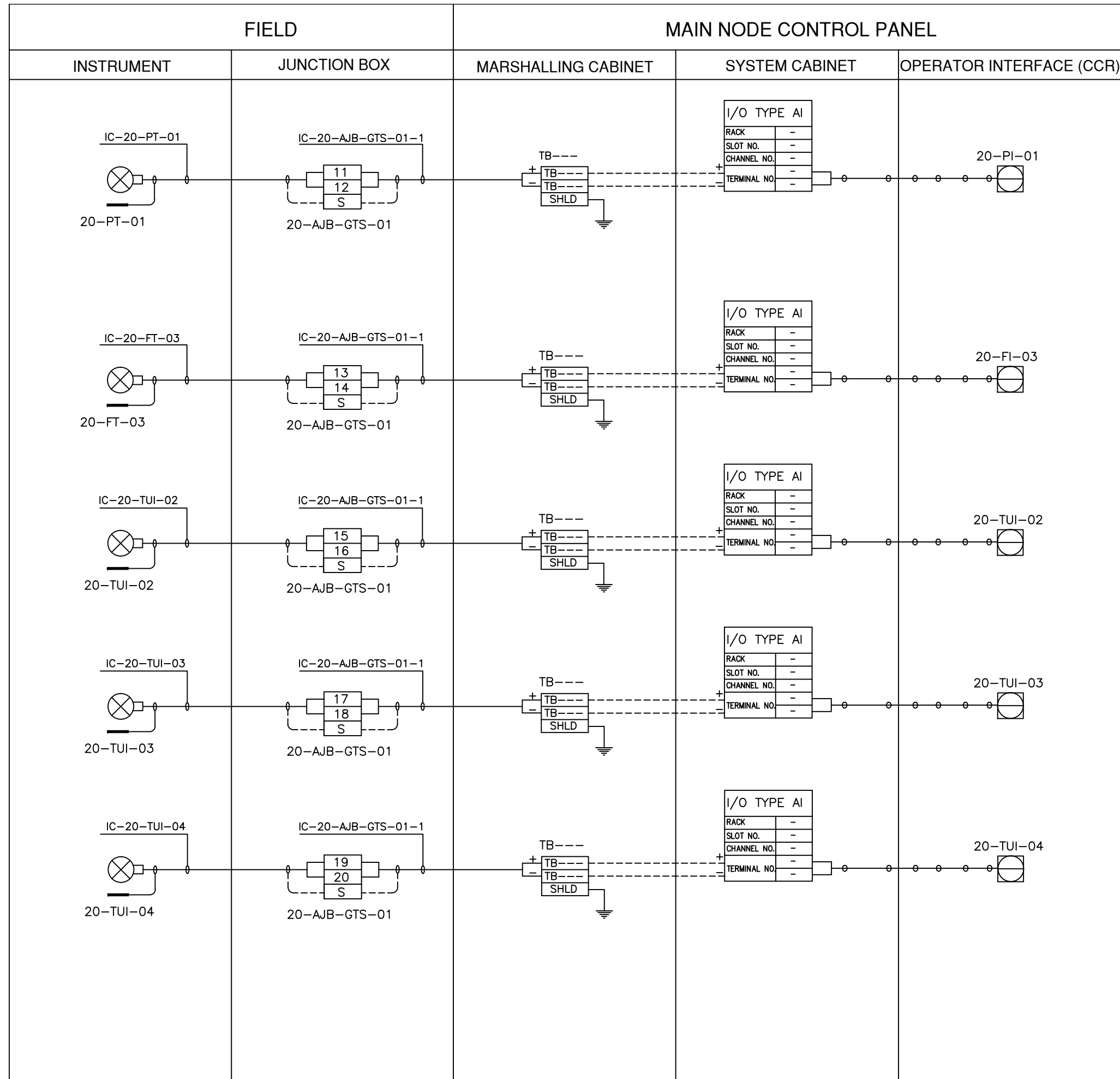
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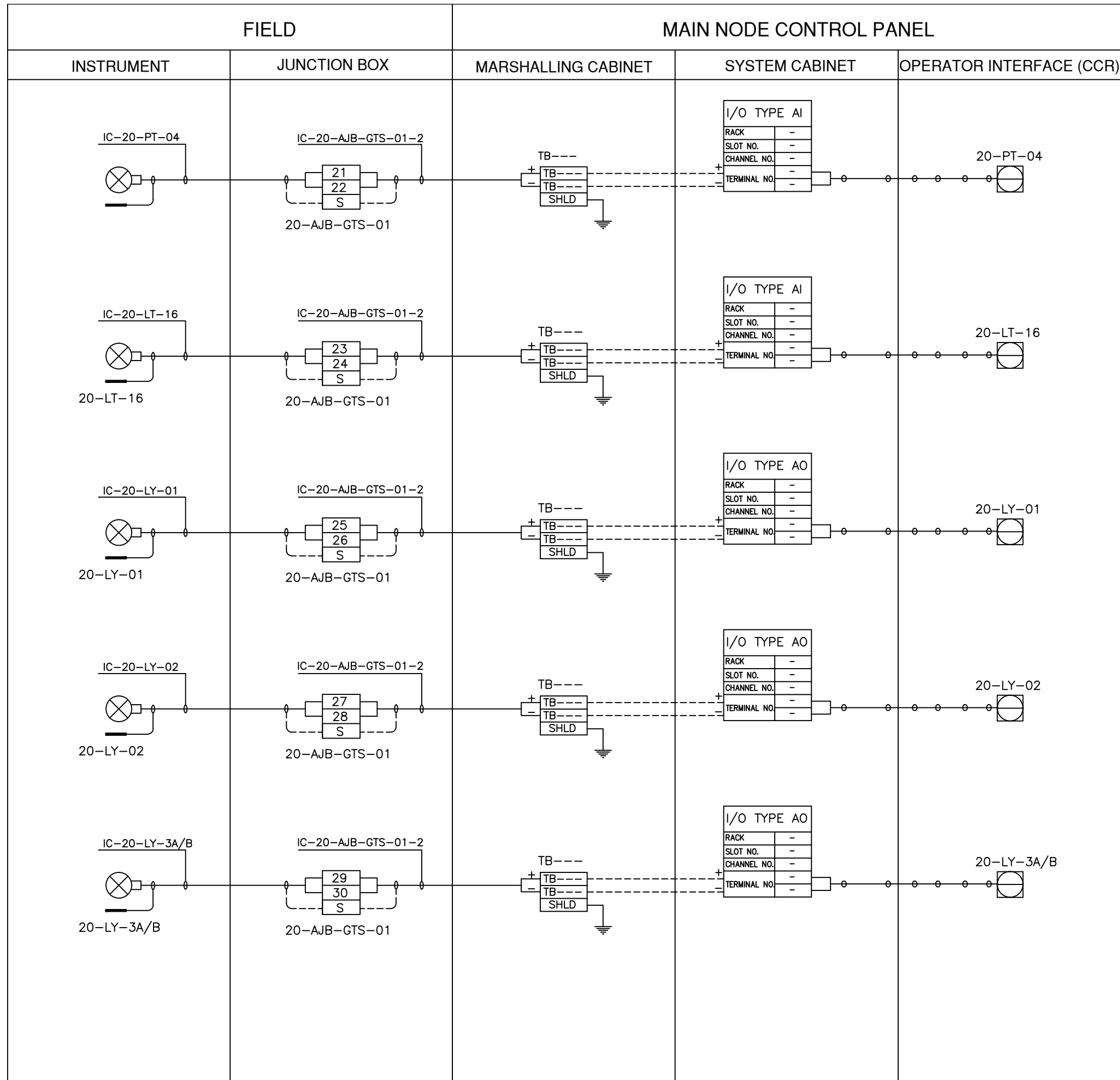


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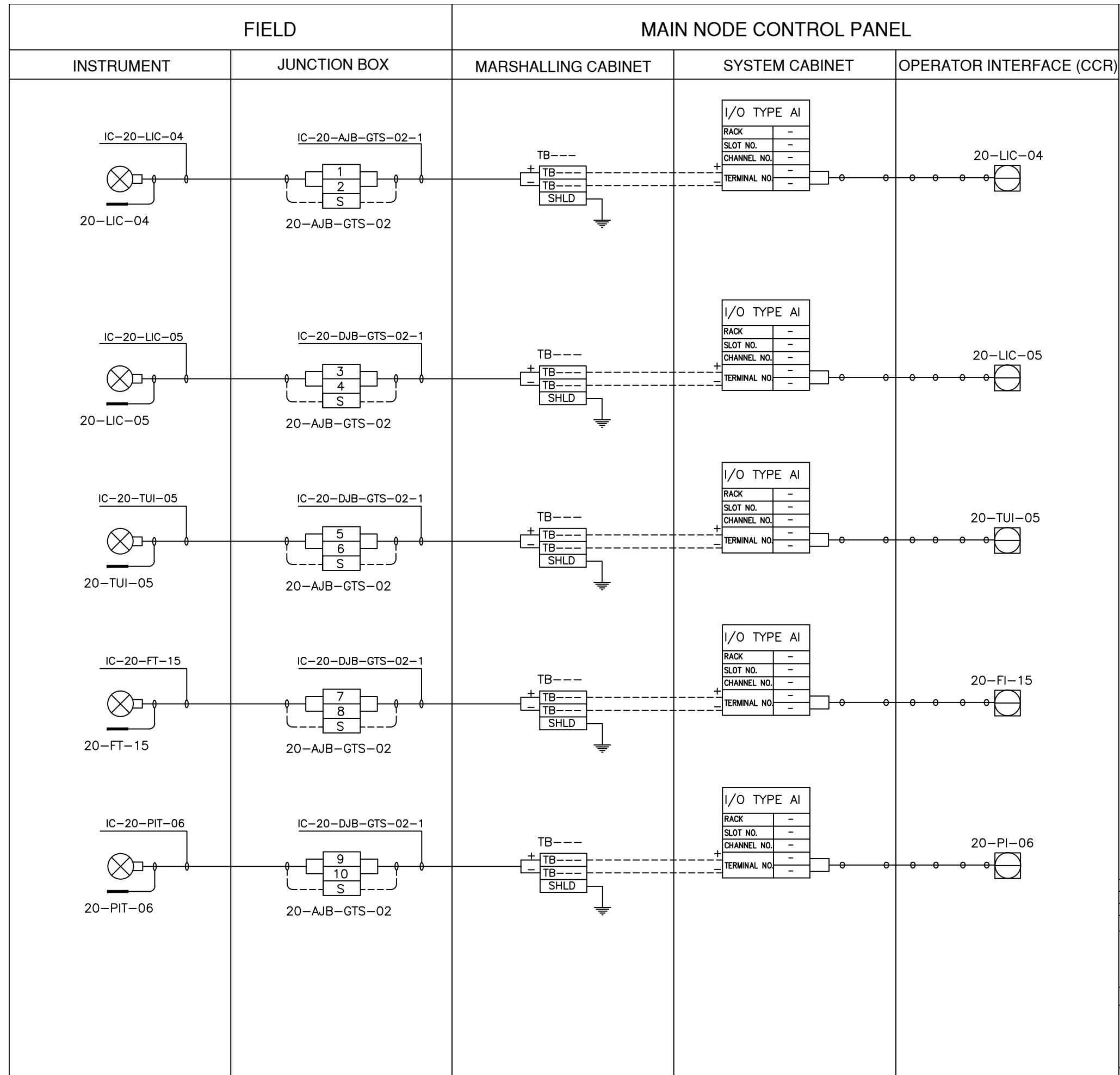


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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 23			
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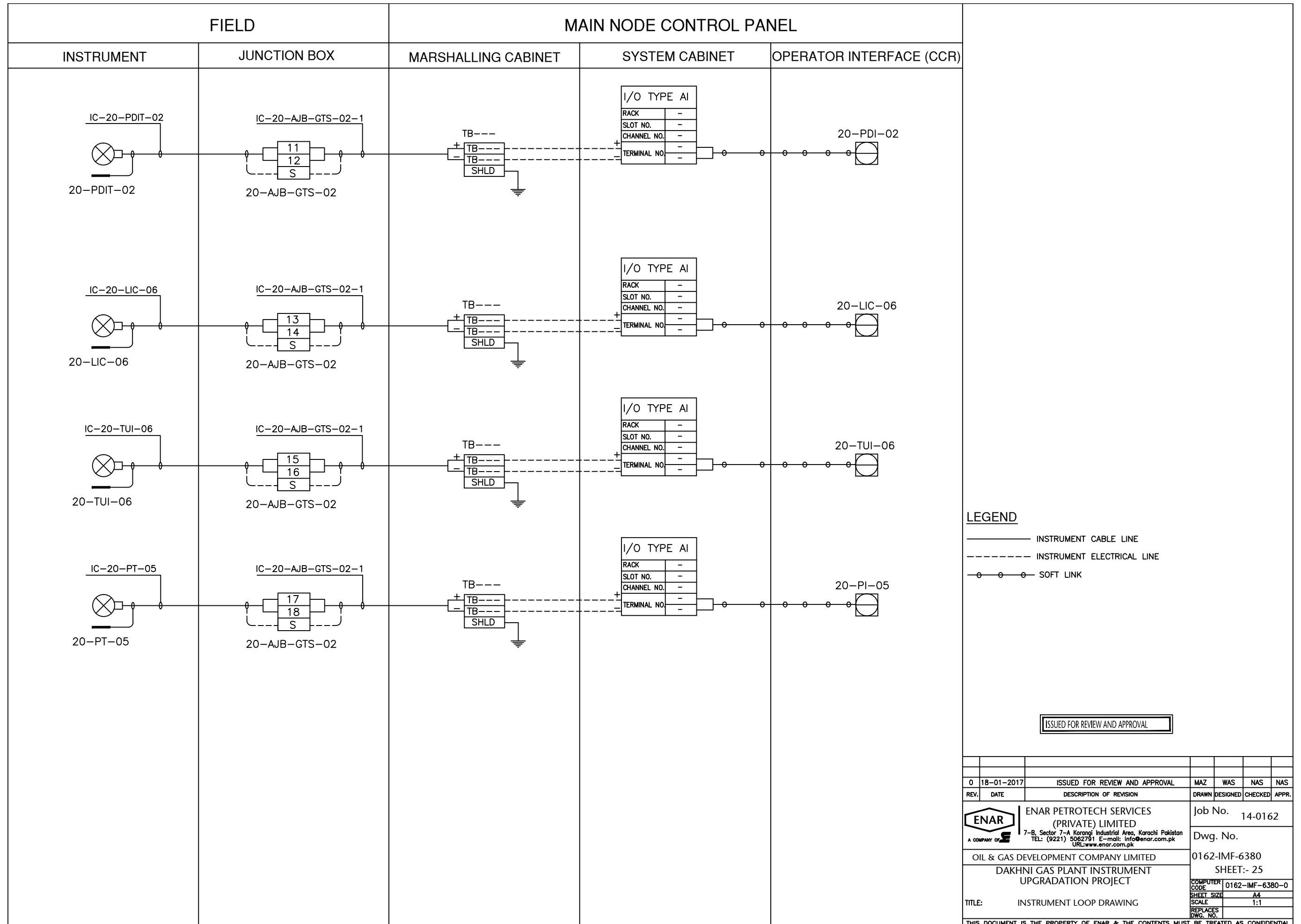


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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 24			
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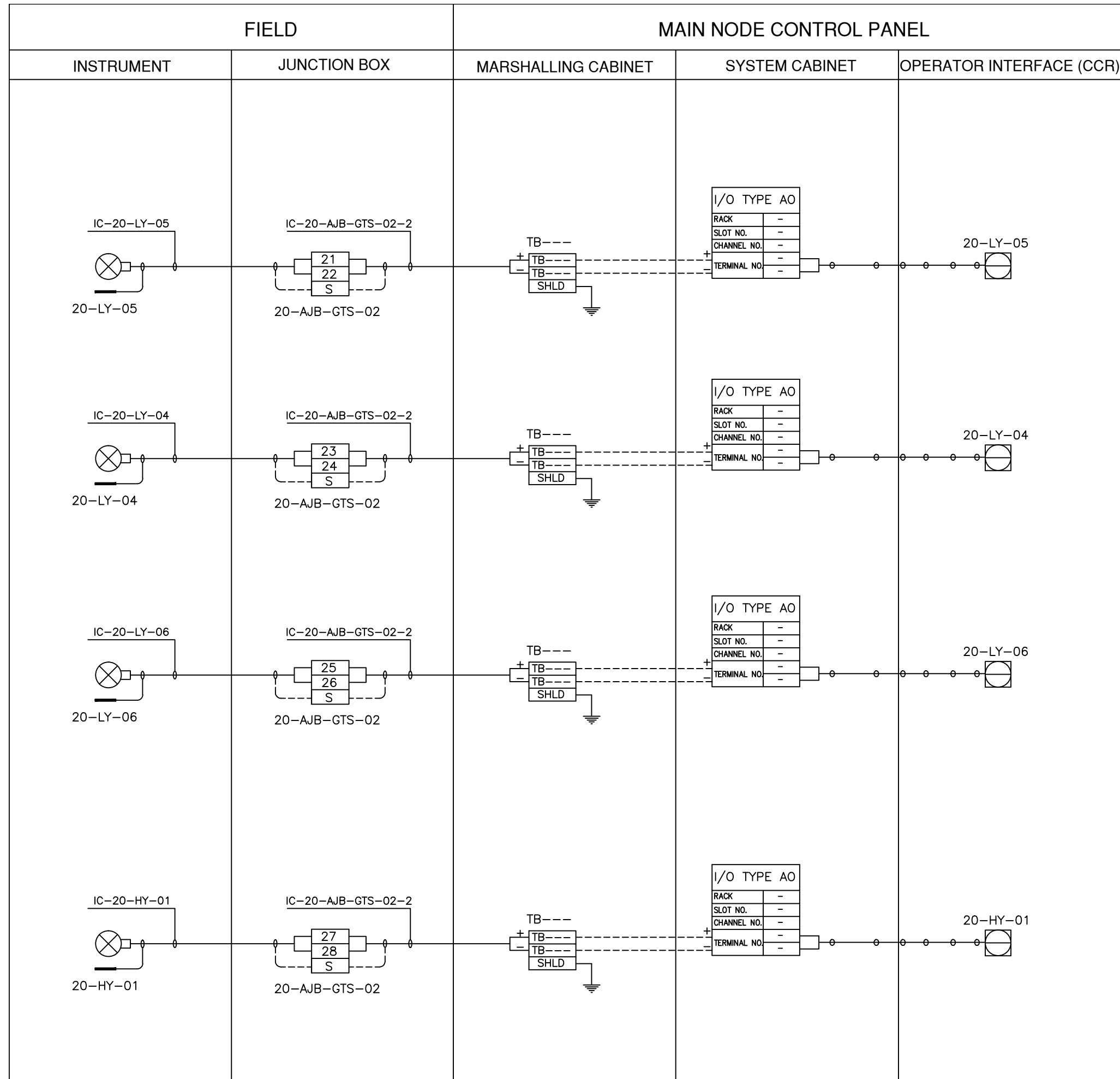


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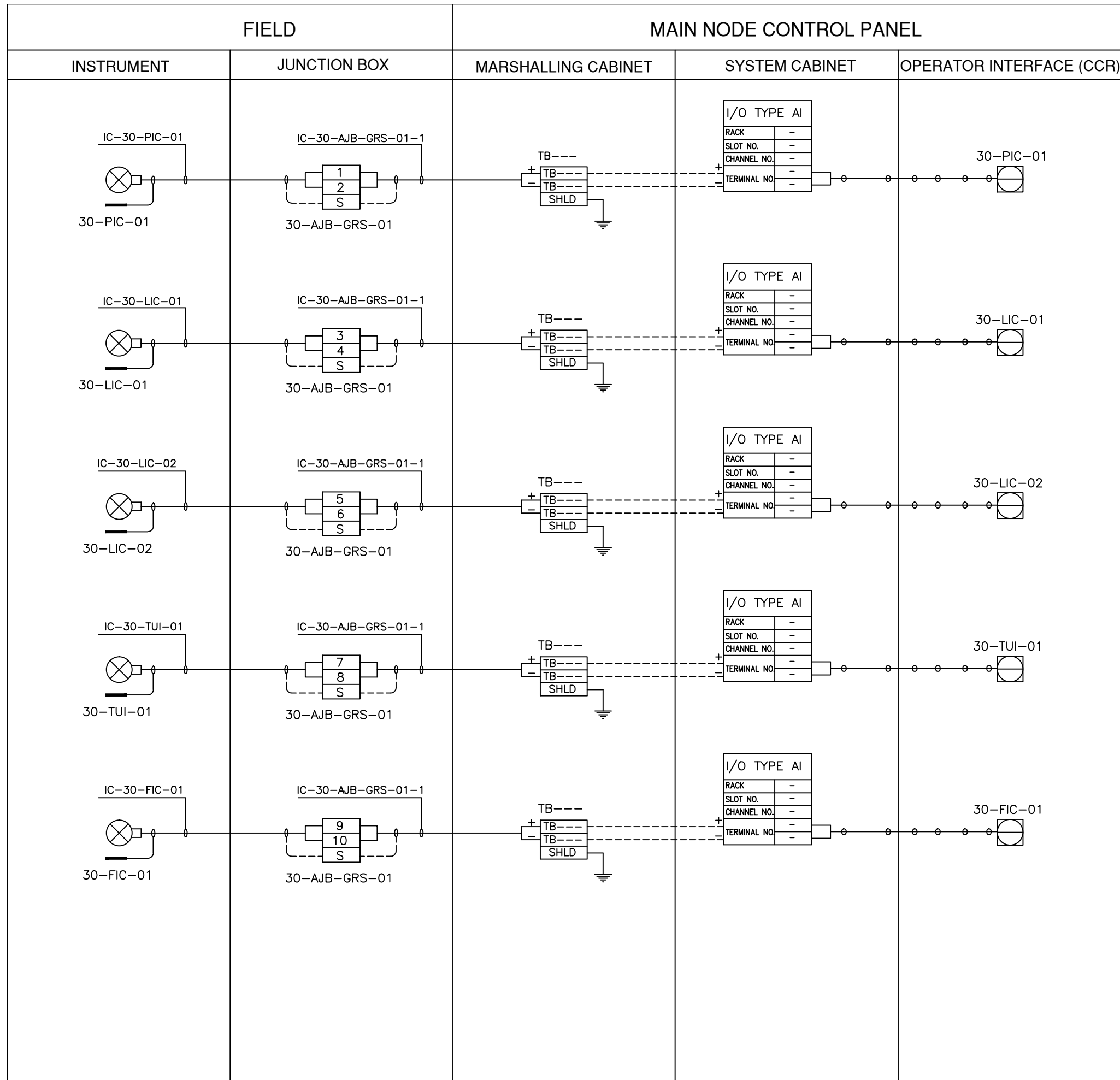
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		OIL & GAS DEVELOPMENT COMPANY LIMITED	Dwg. No. 0162-IMF-6380			
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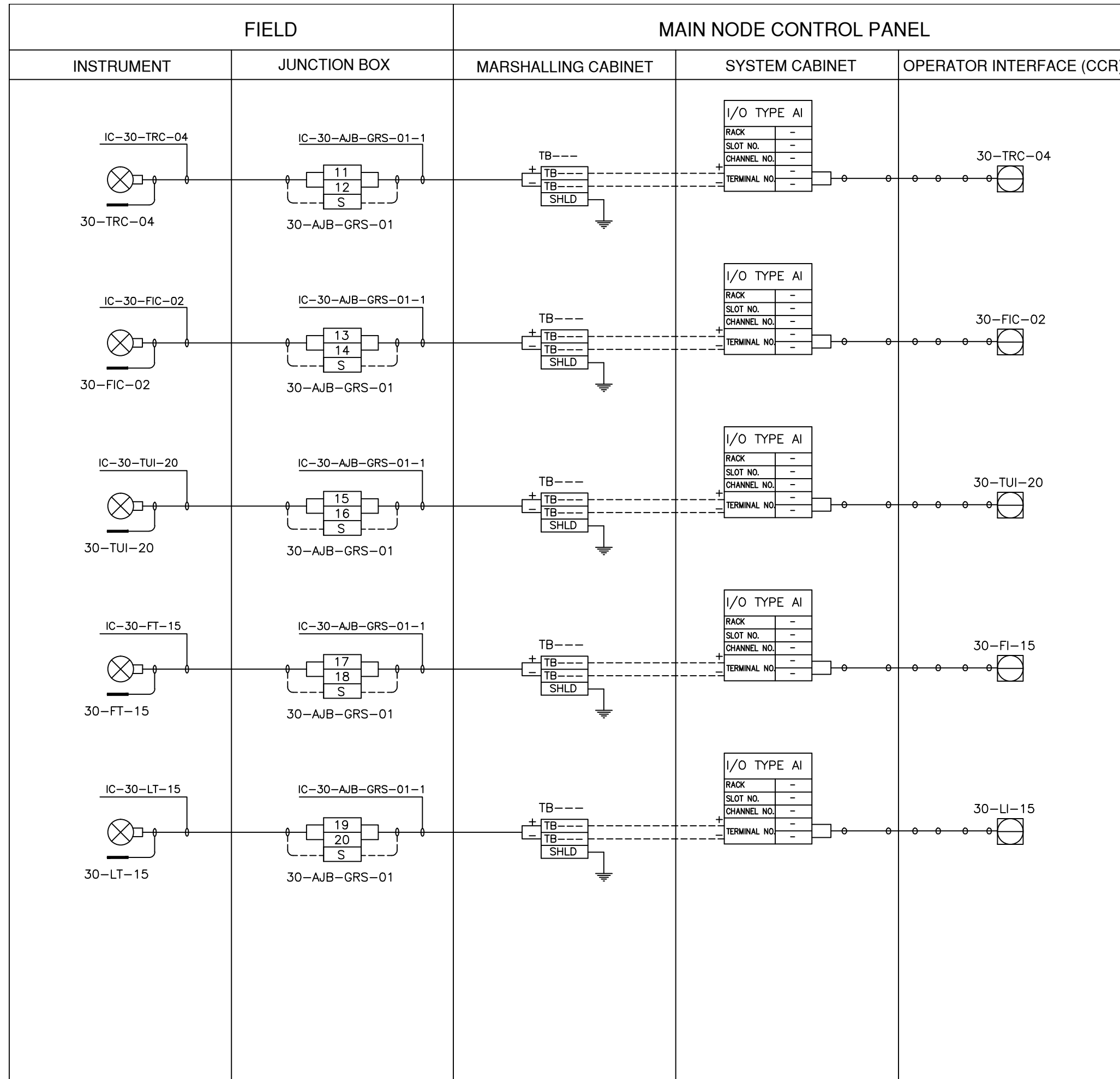


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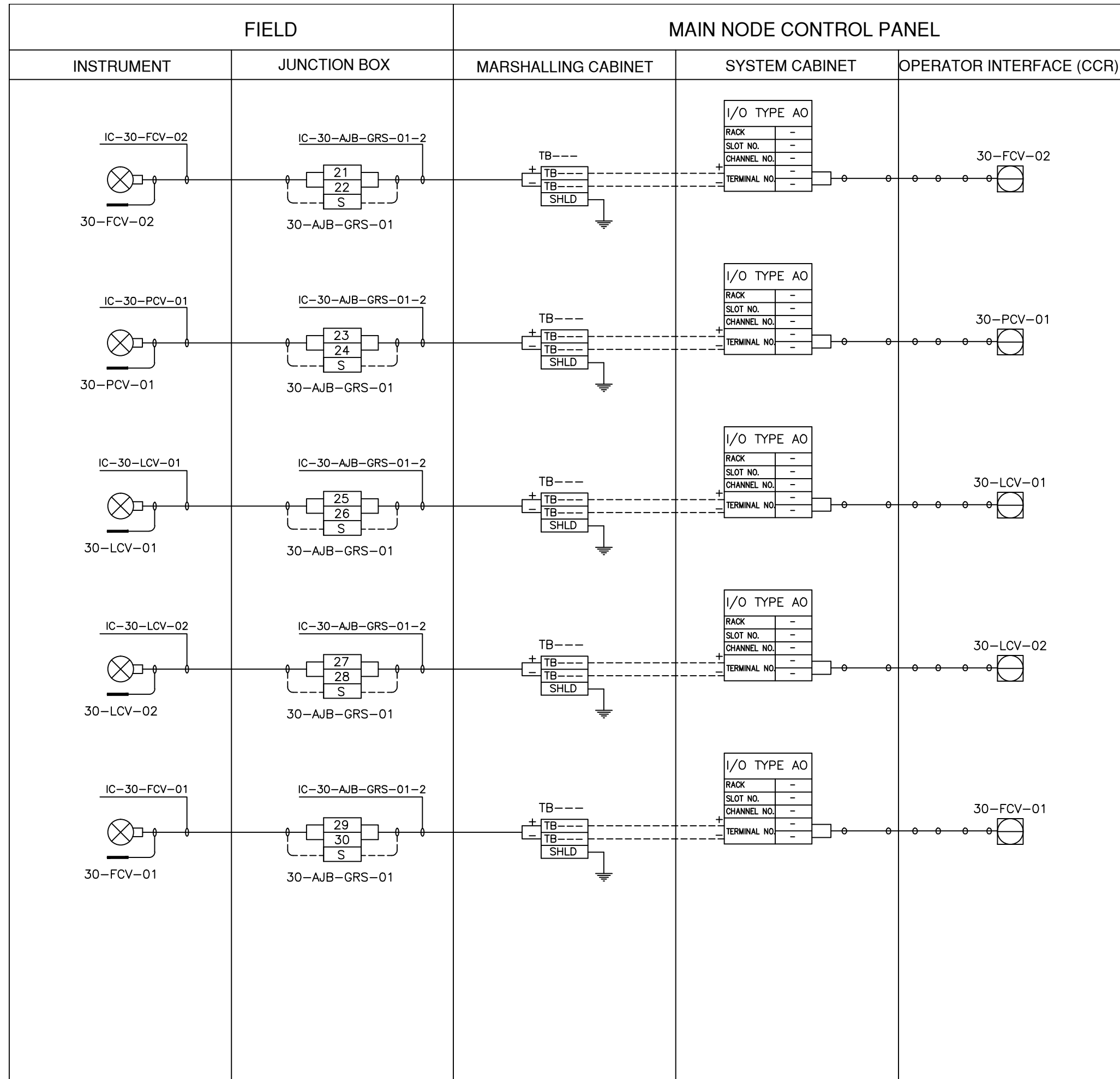


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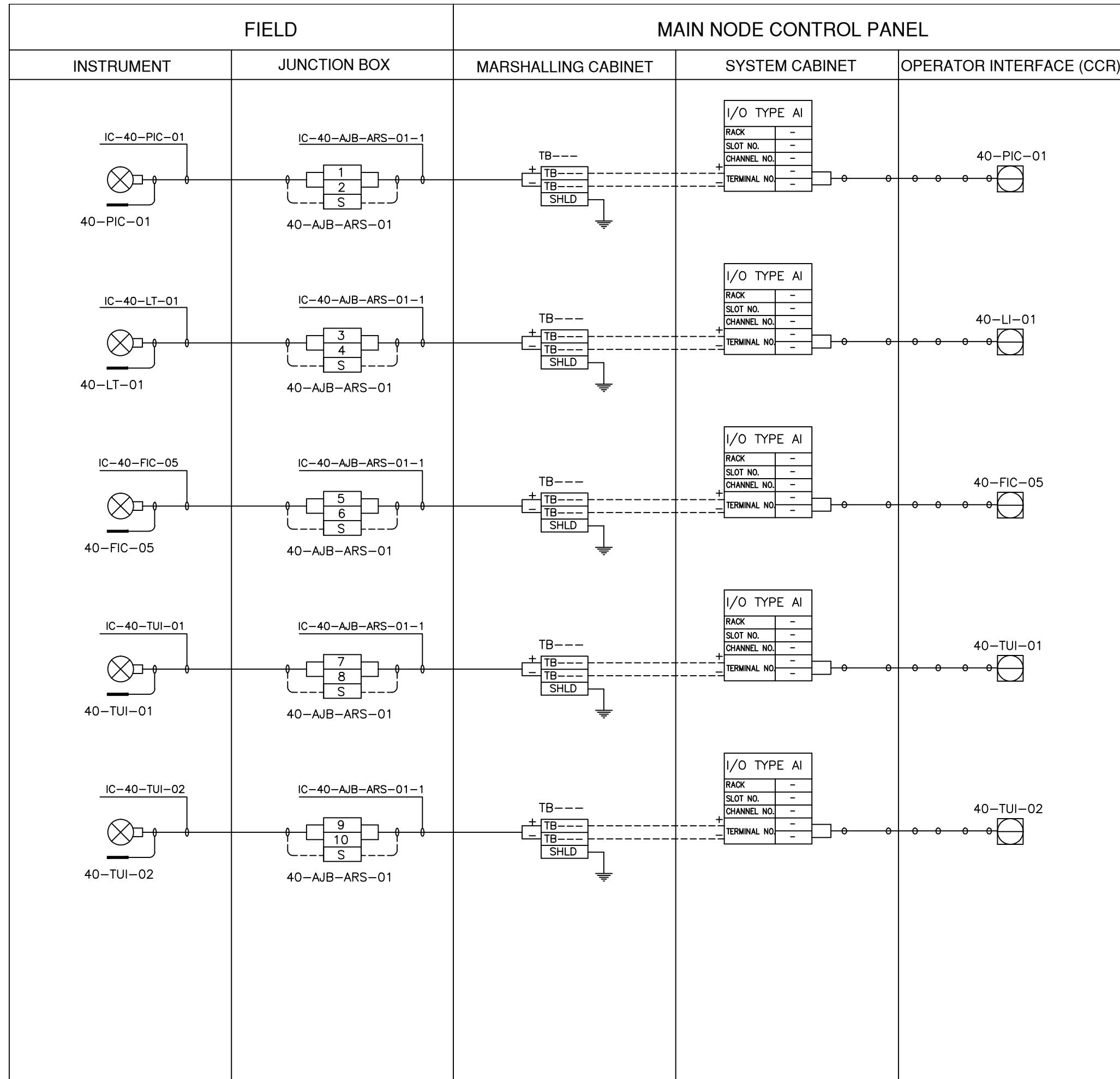
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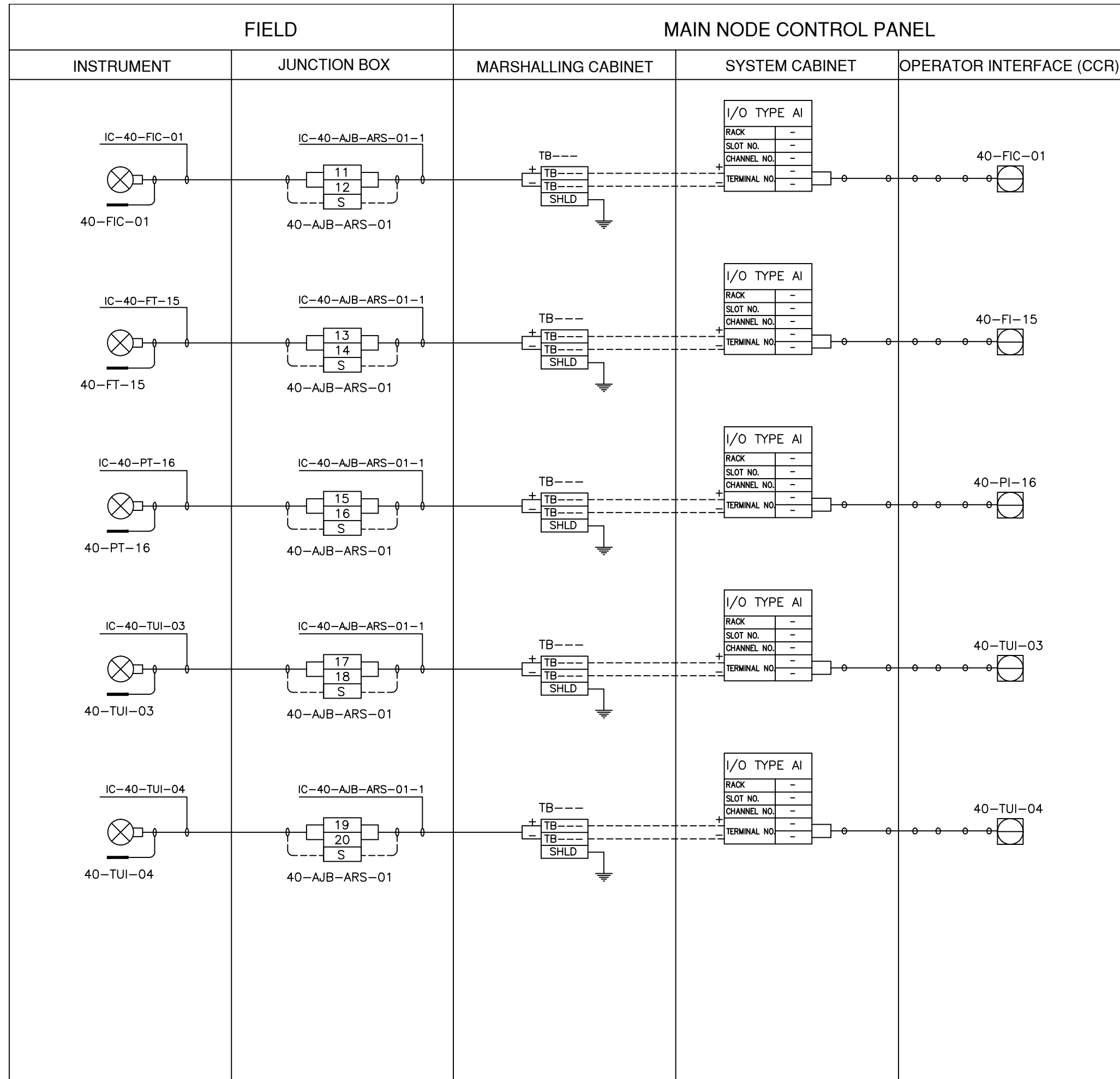


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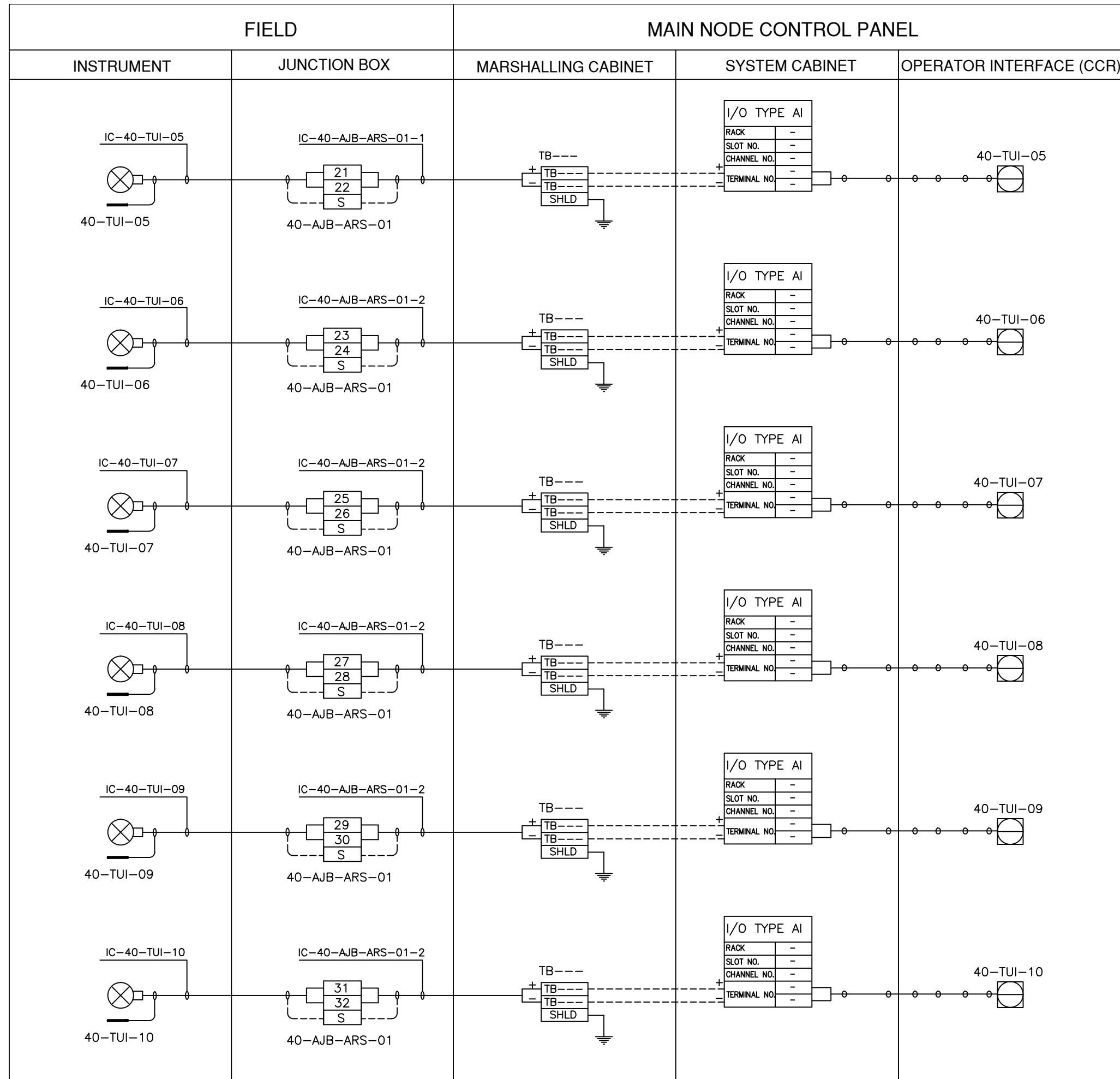
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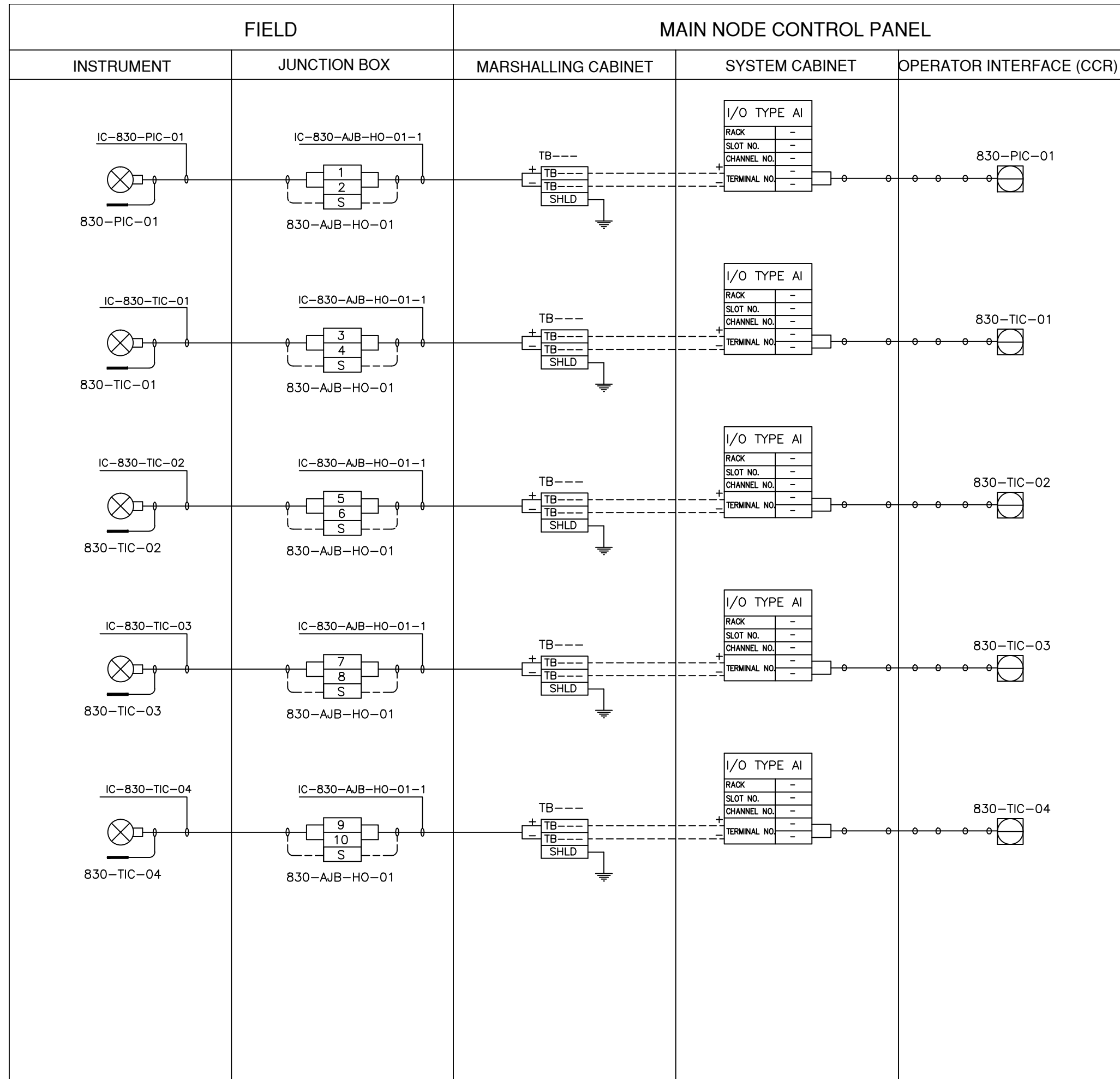


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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 32			
OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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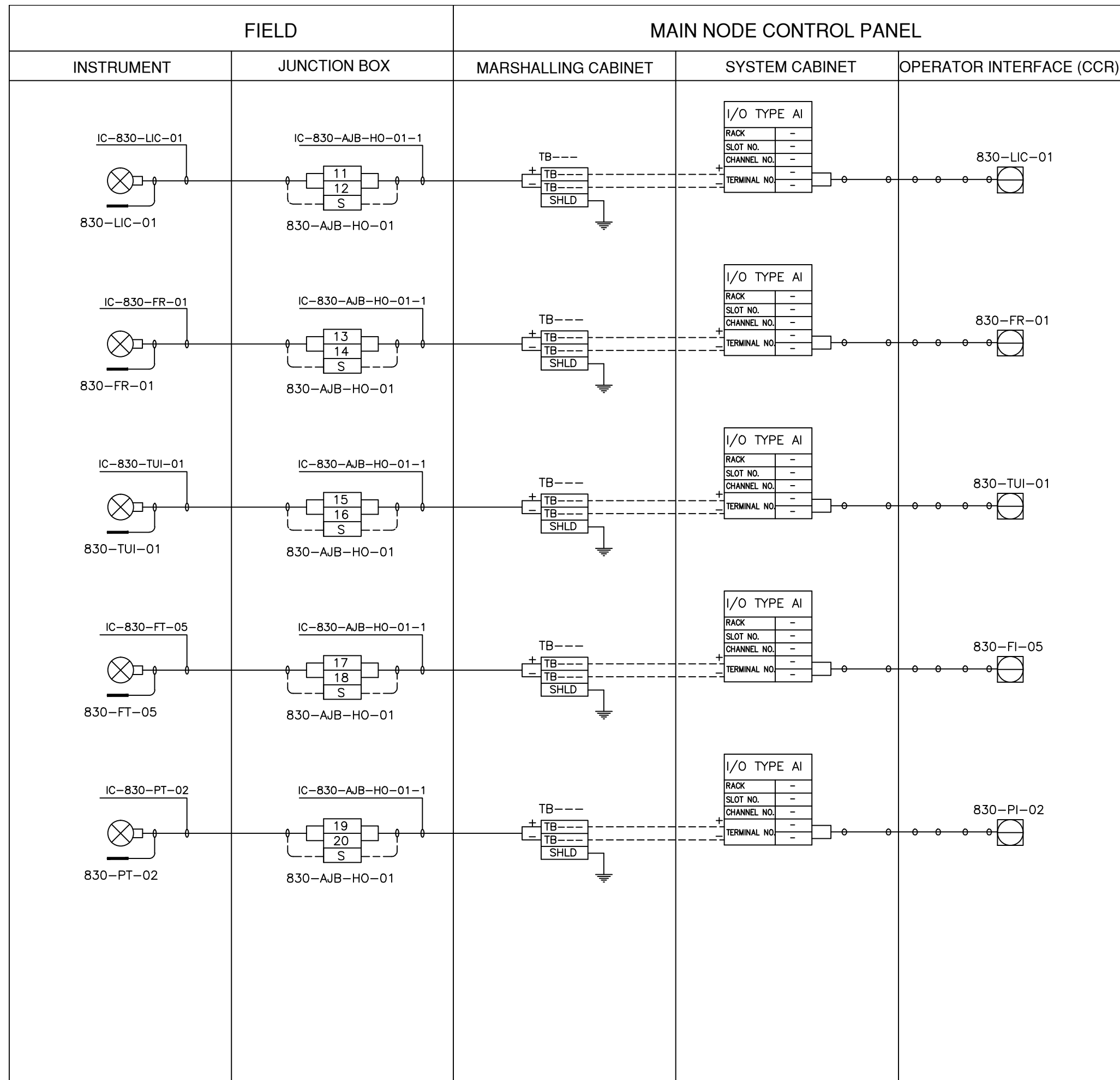
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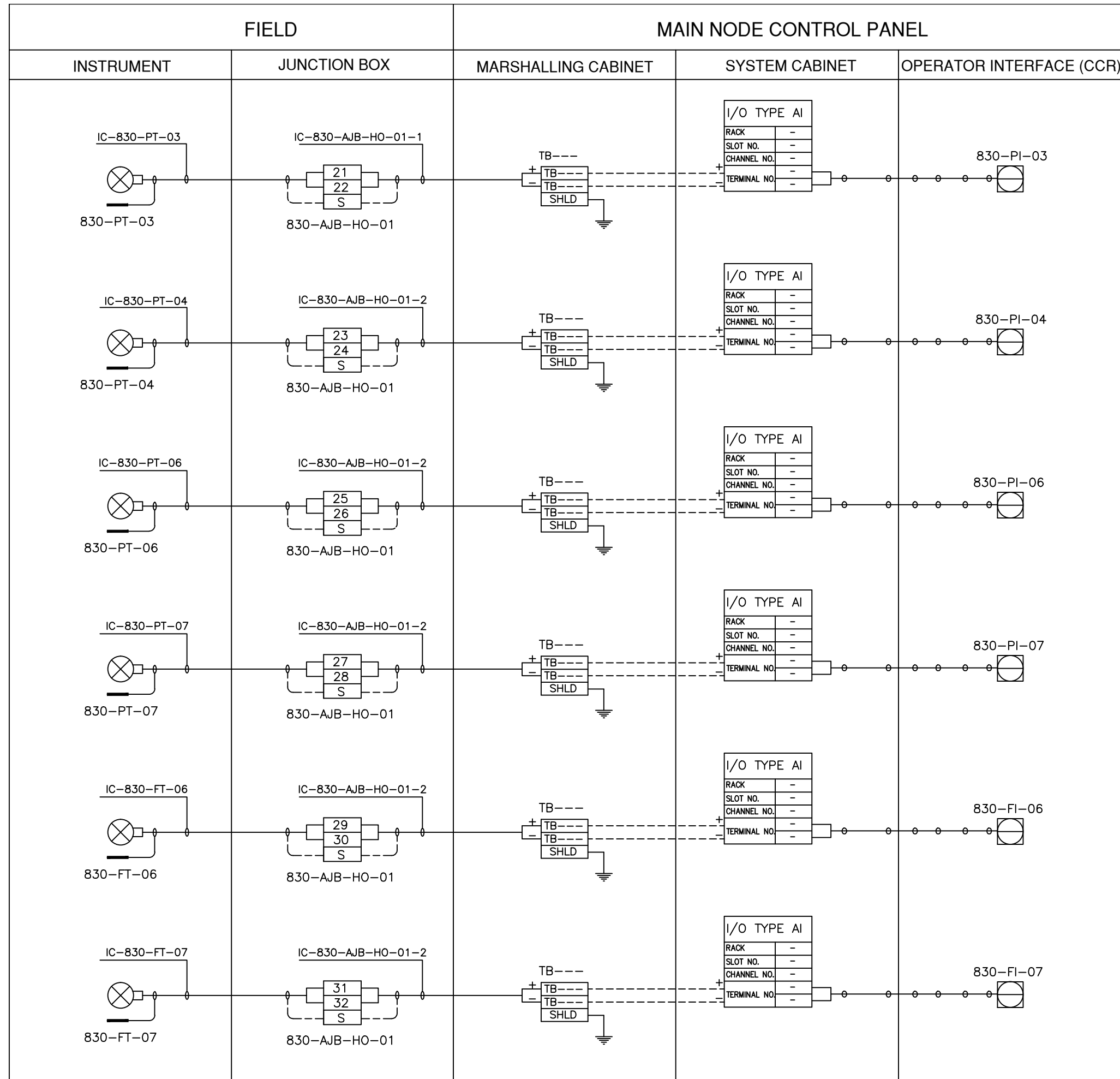


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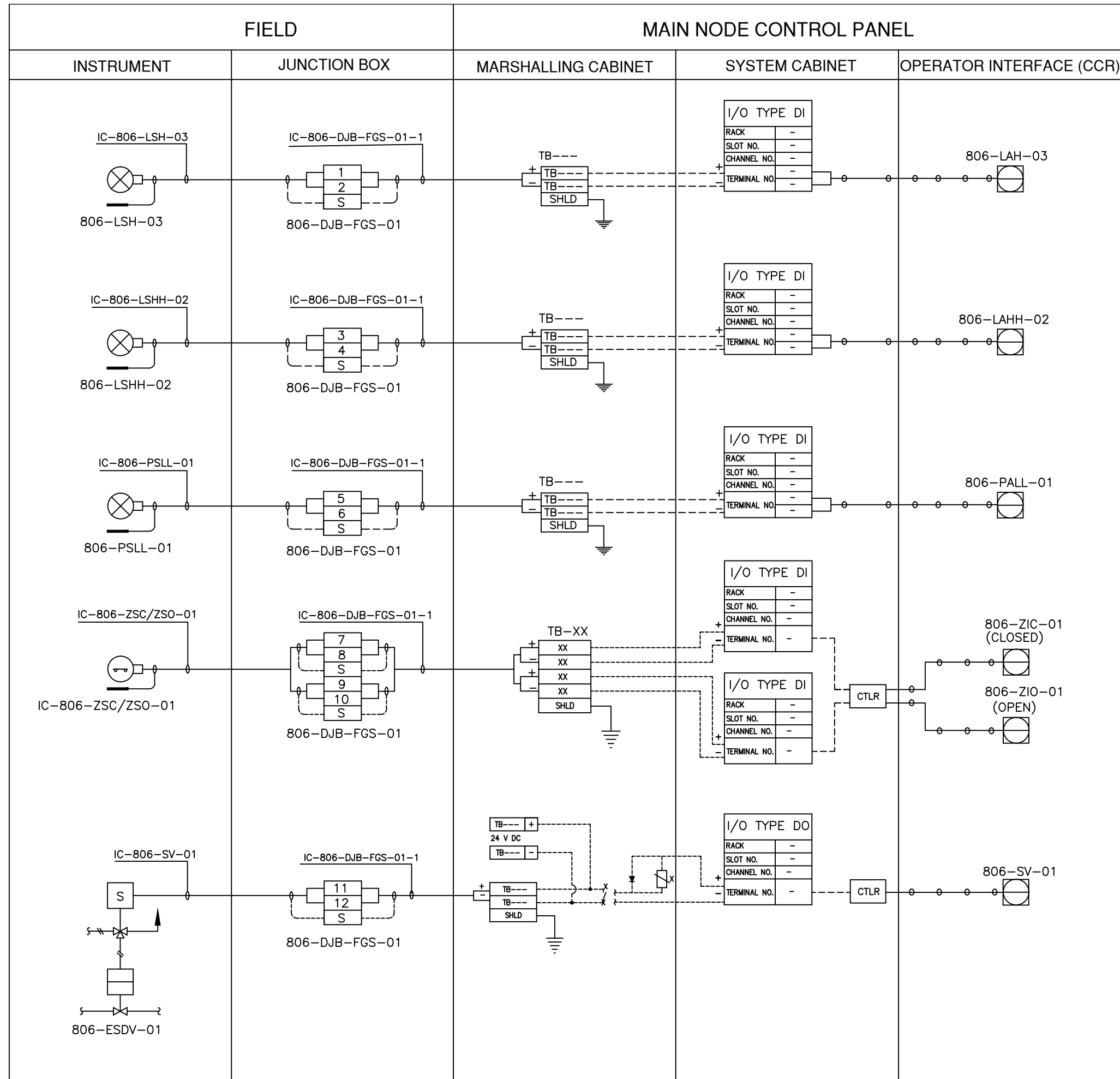
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OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
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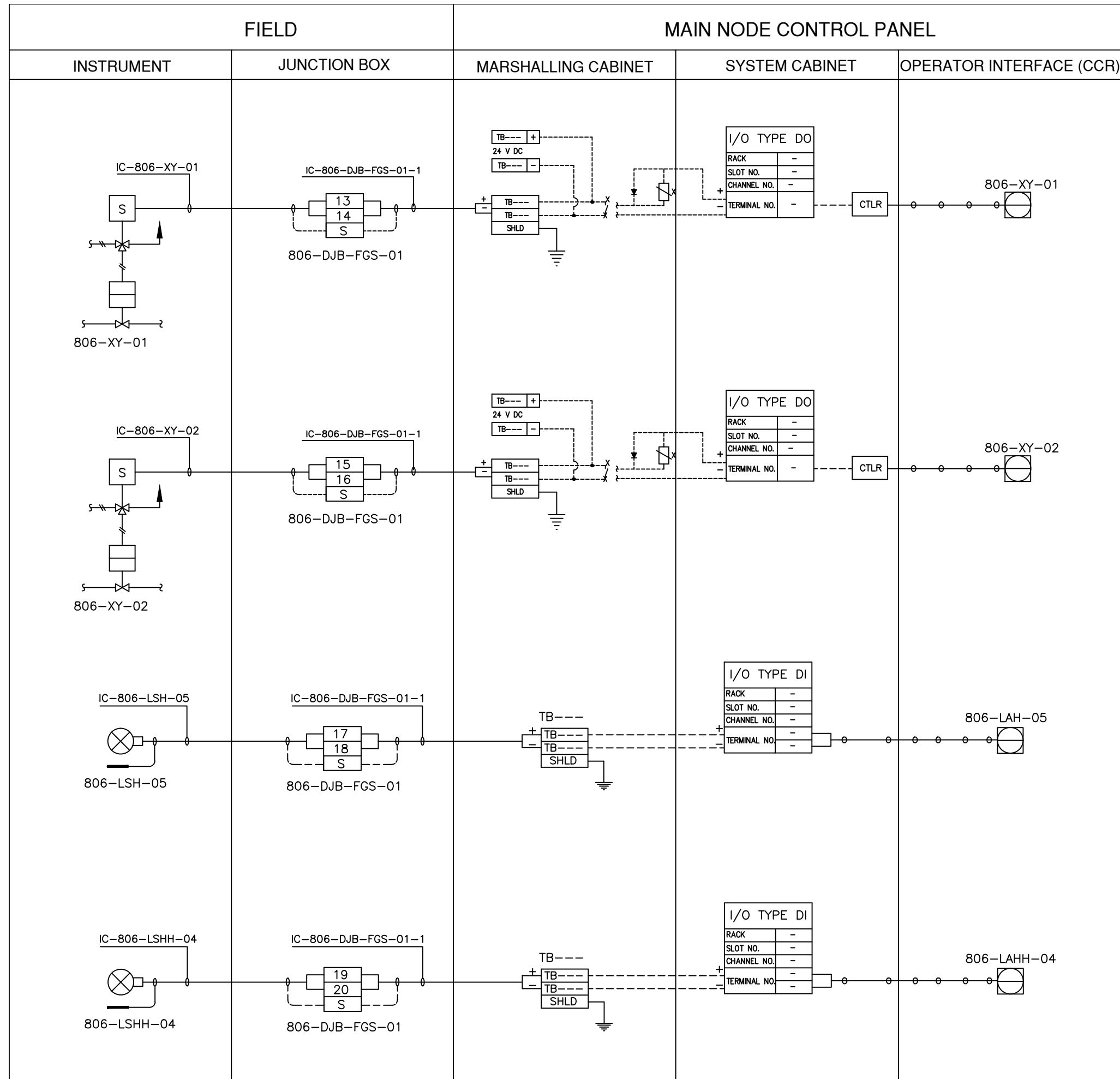


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OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
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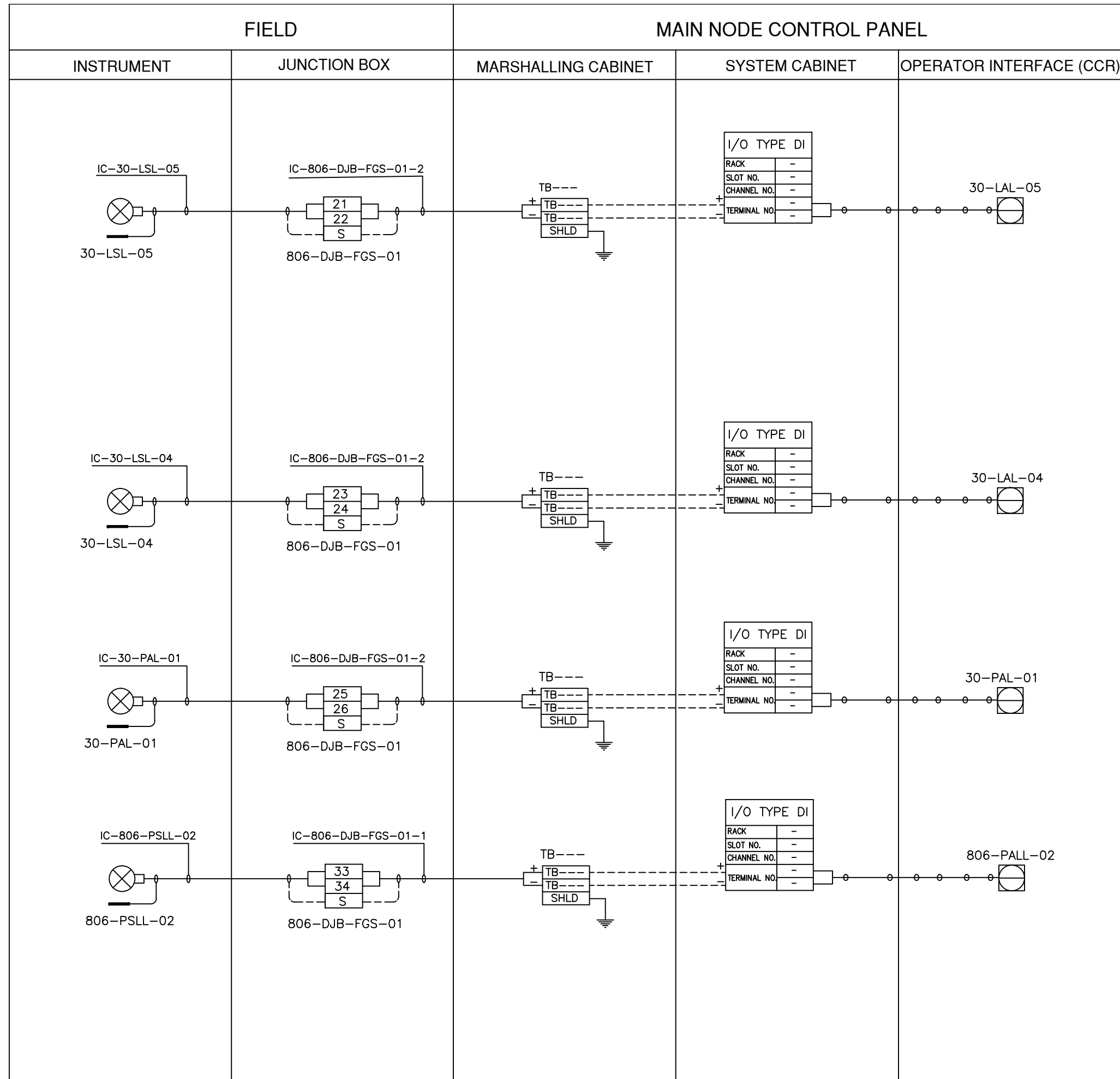


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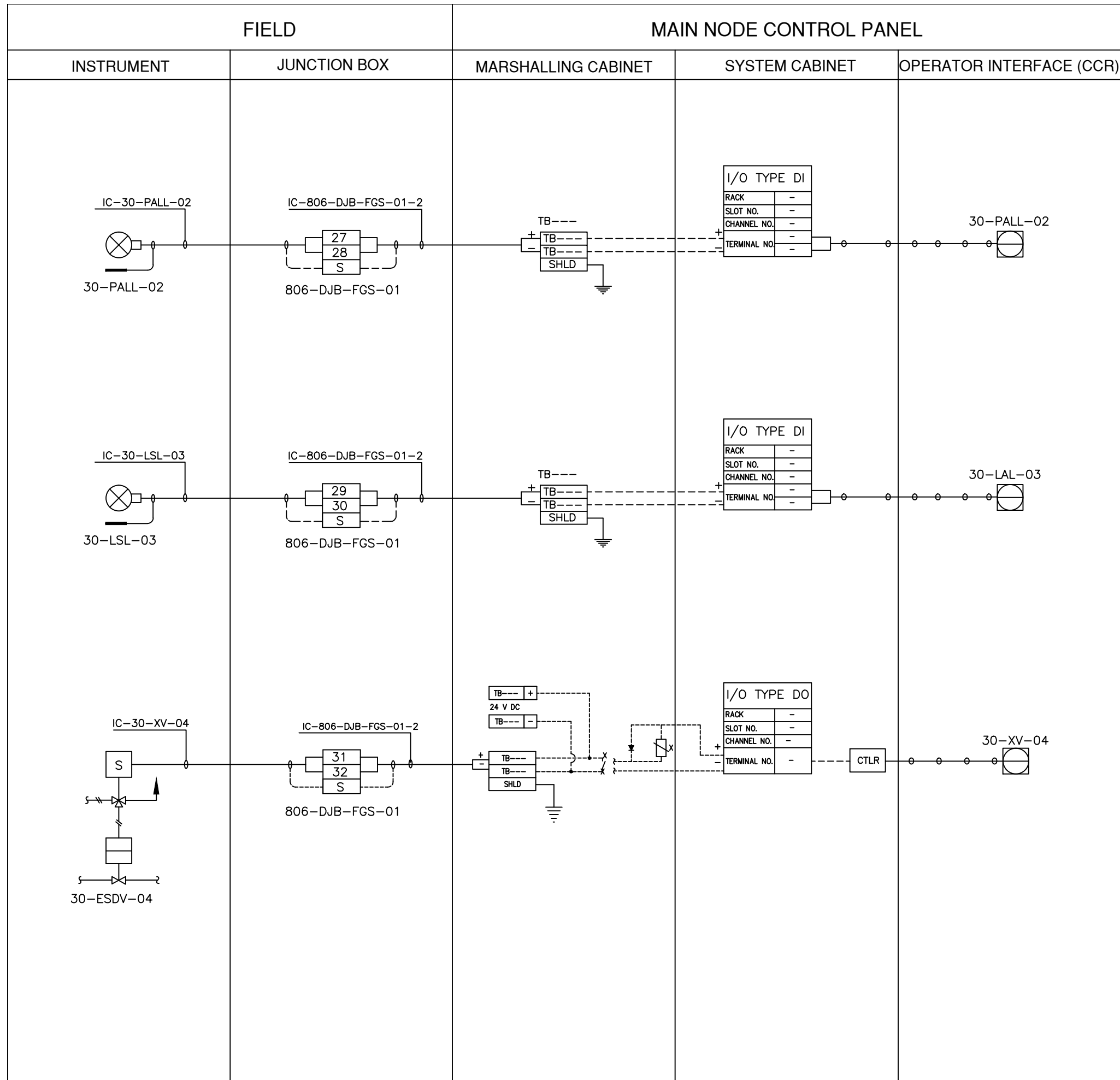


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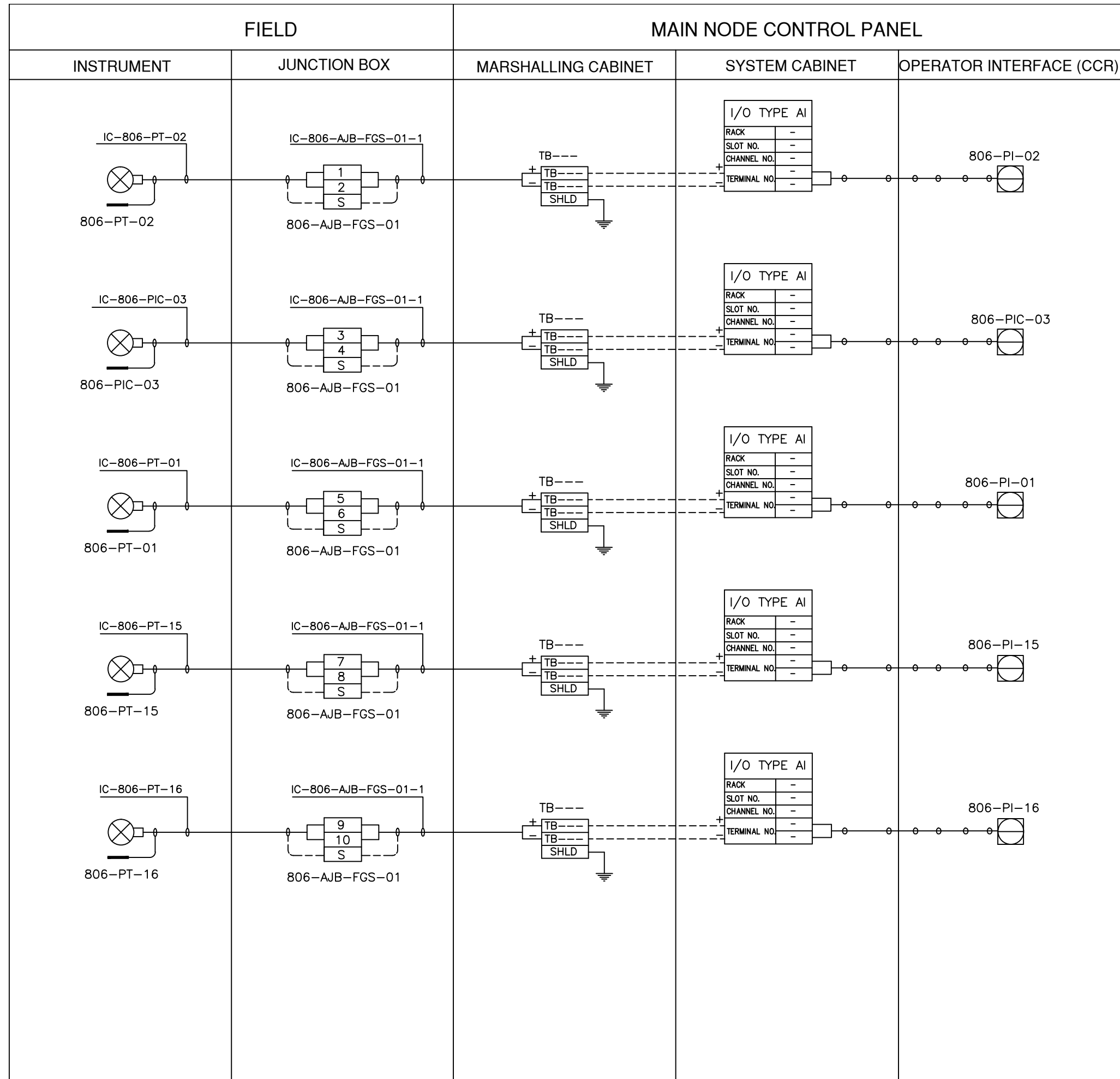
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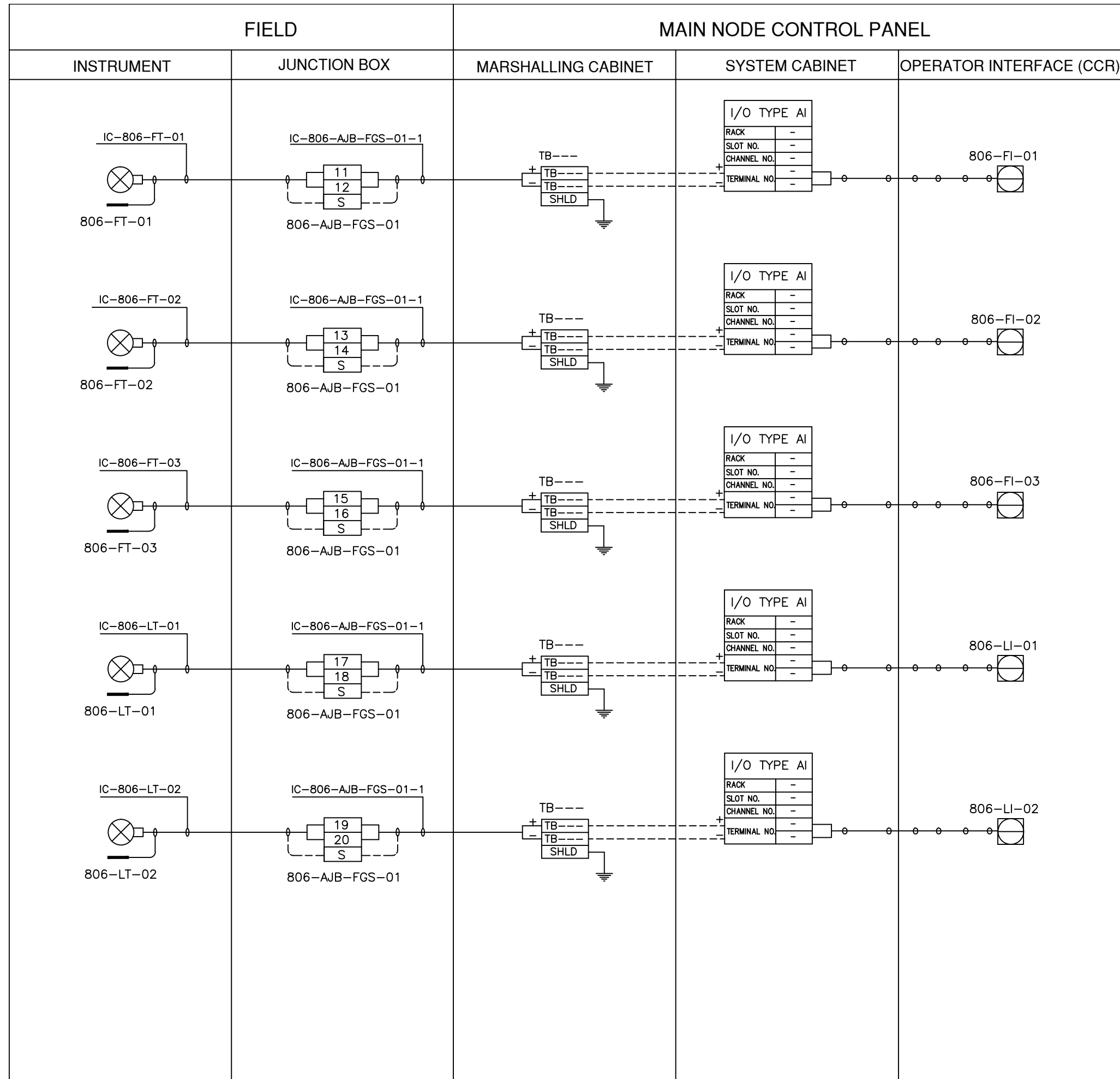
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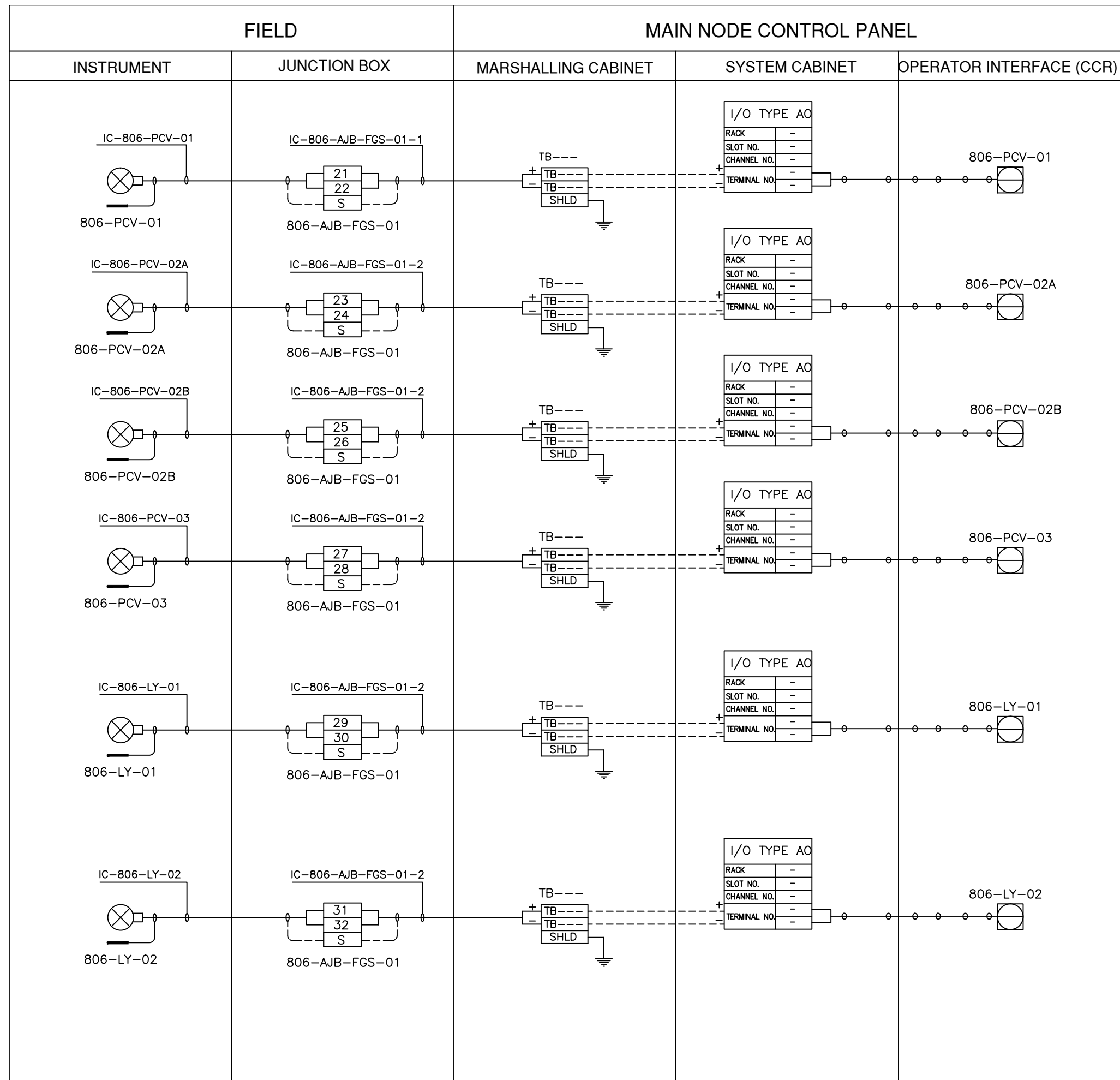


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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 41			
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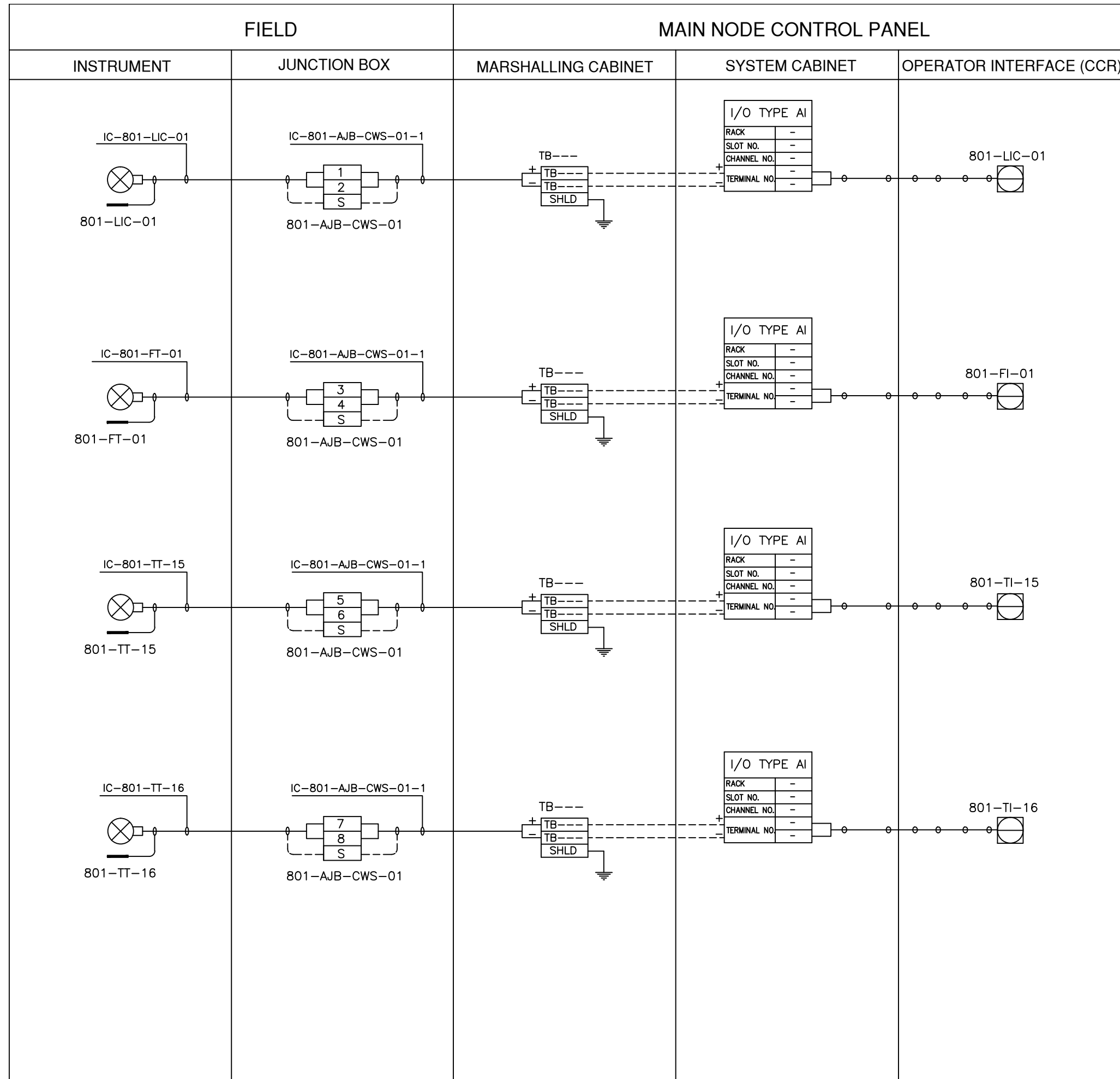


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		 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk	Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 42			
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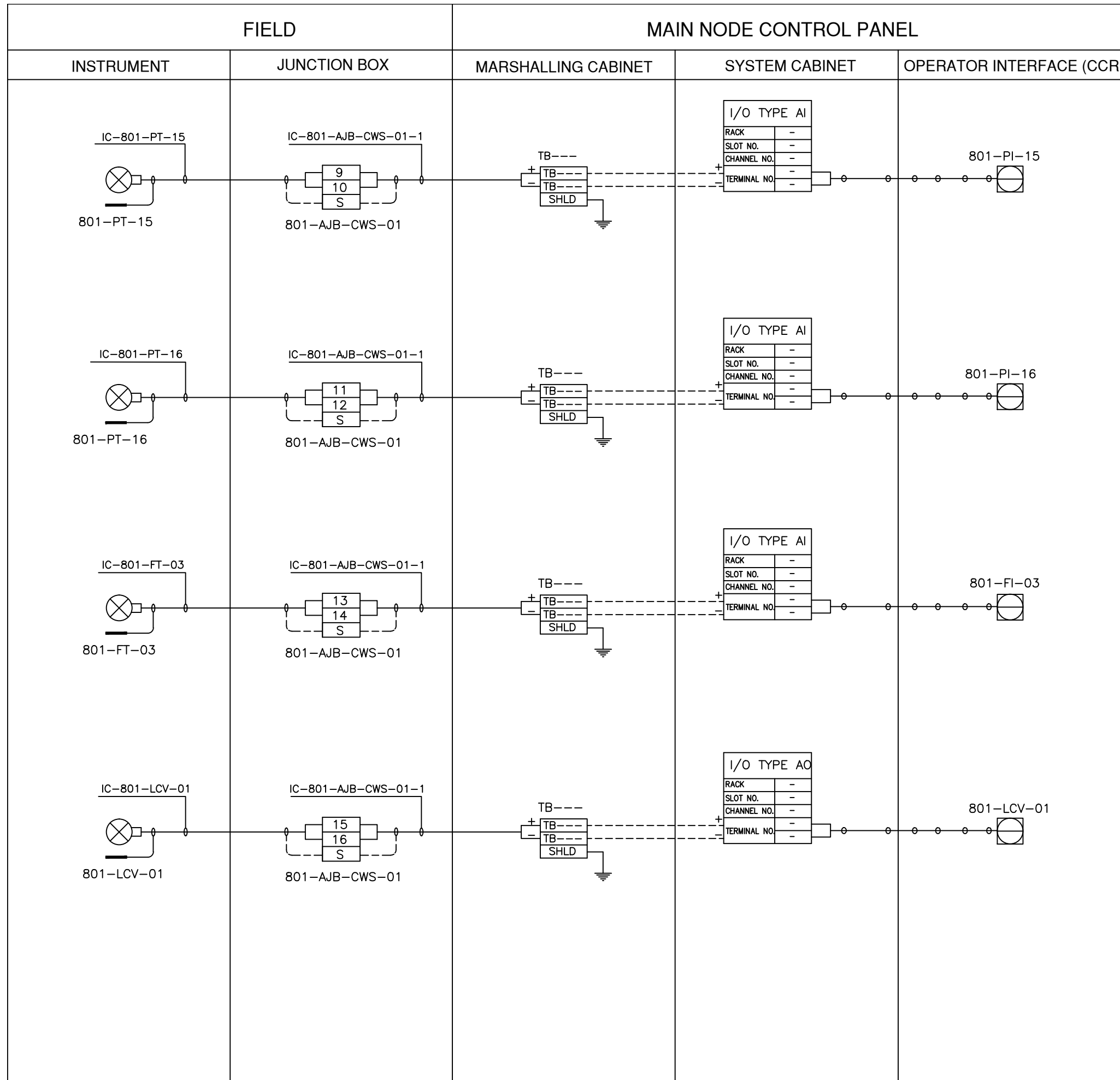
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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 43			
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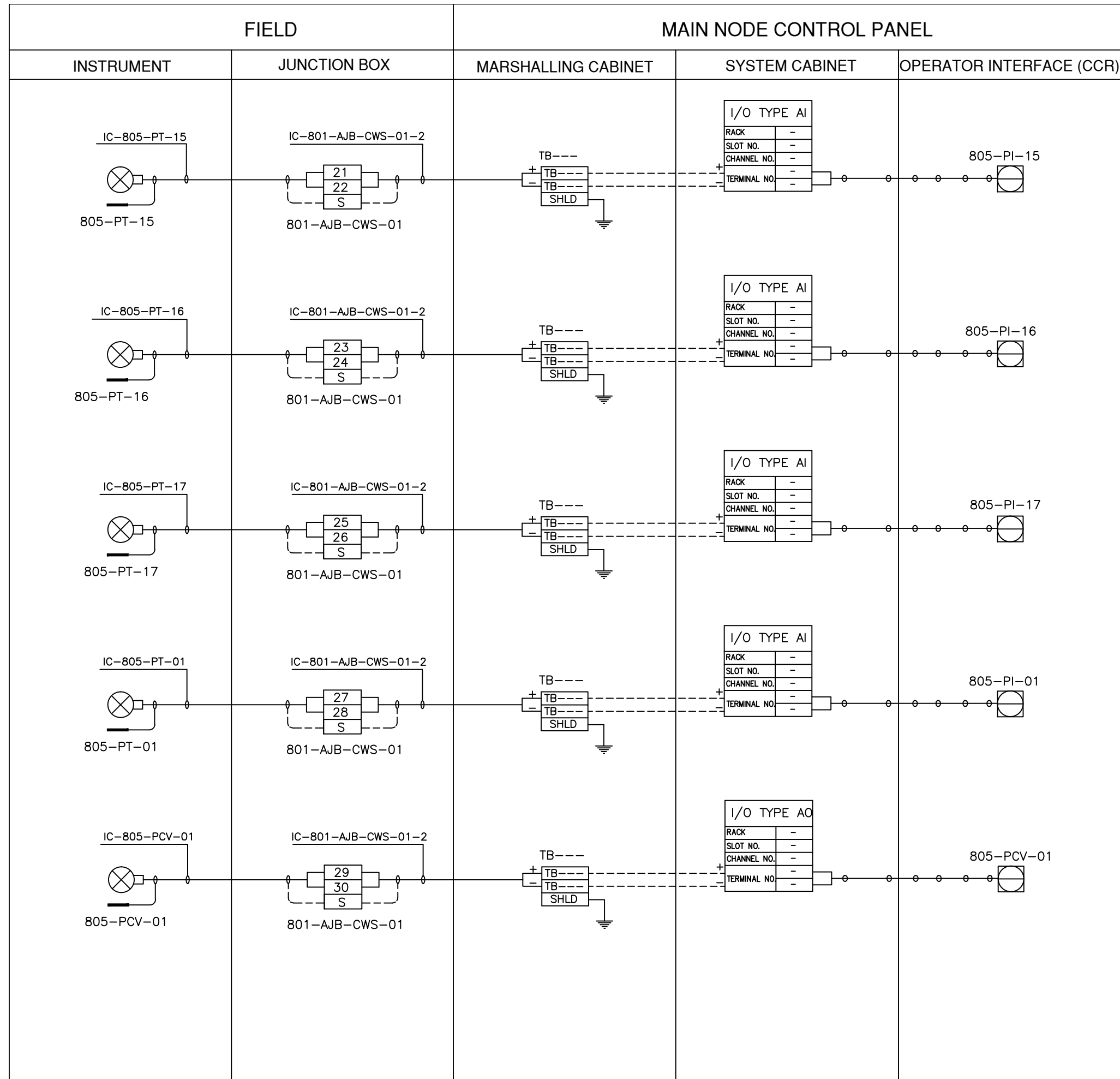
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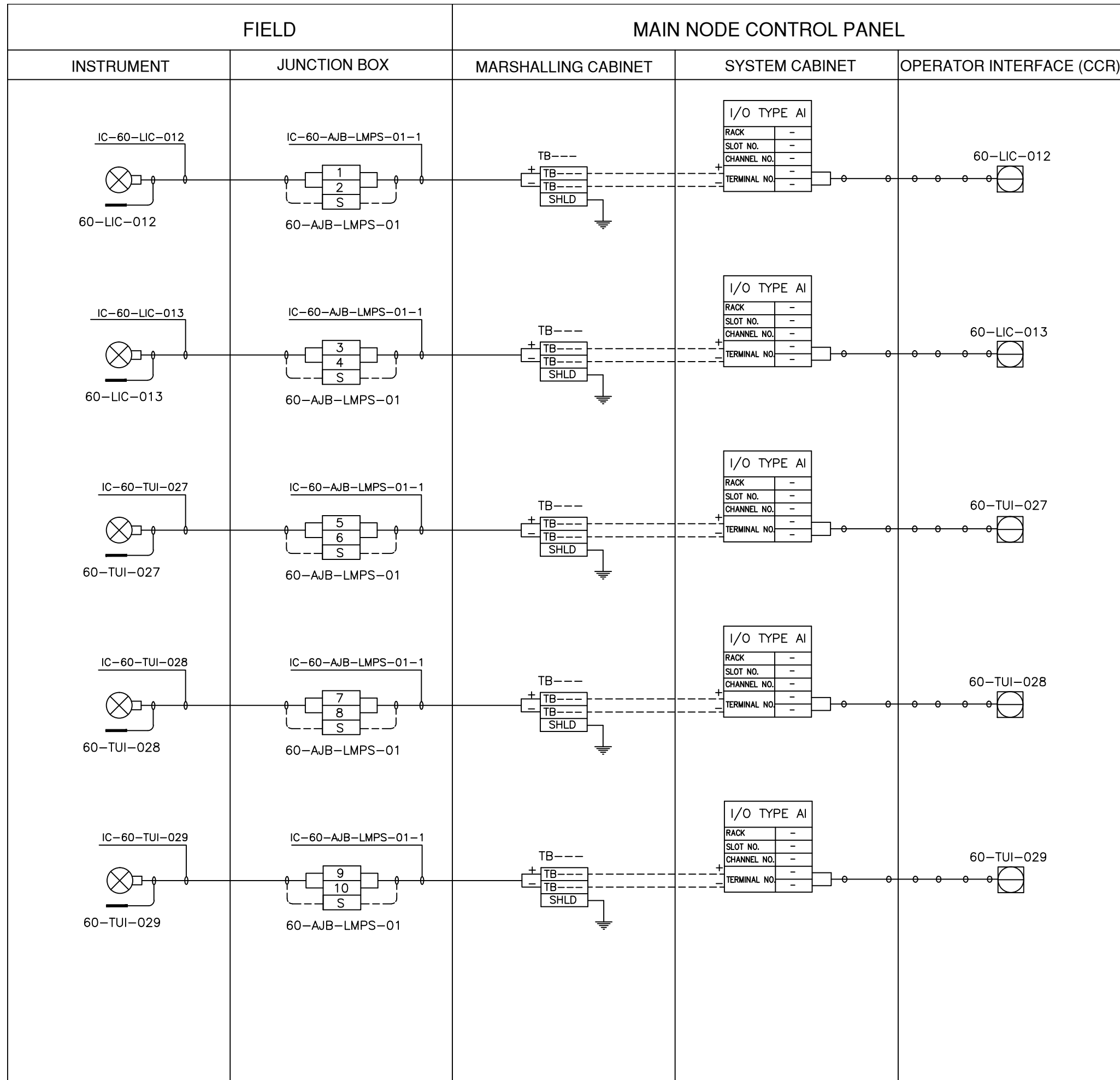


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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 45			
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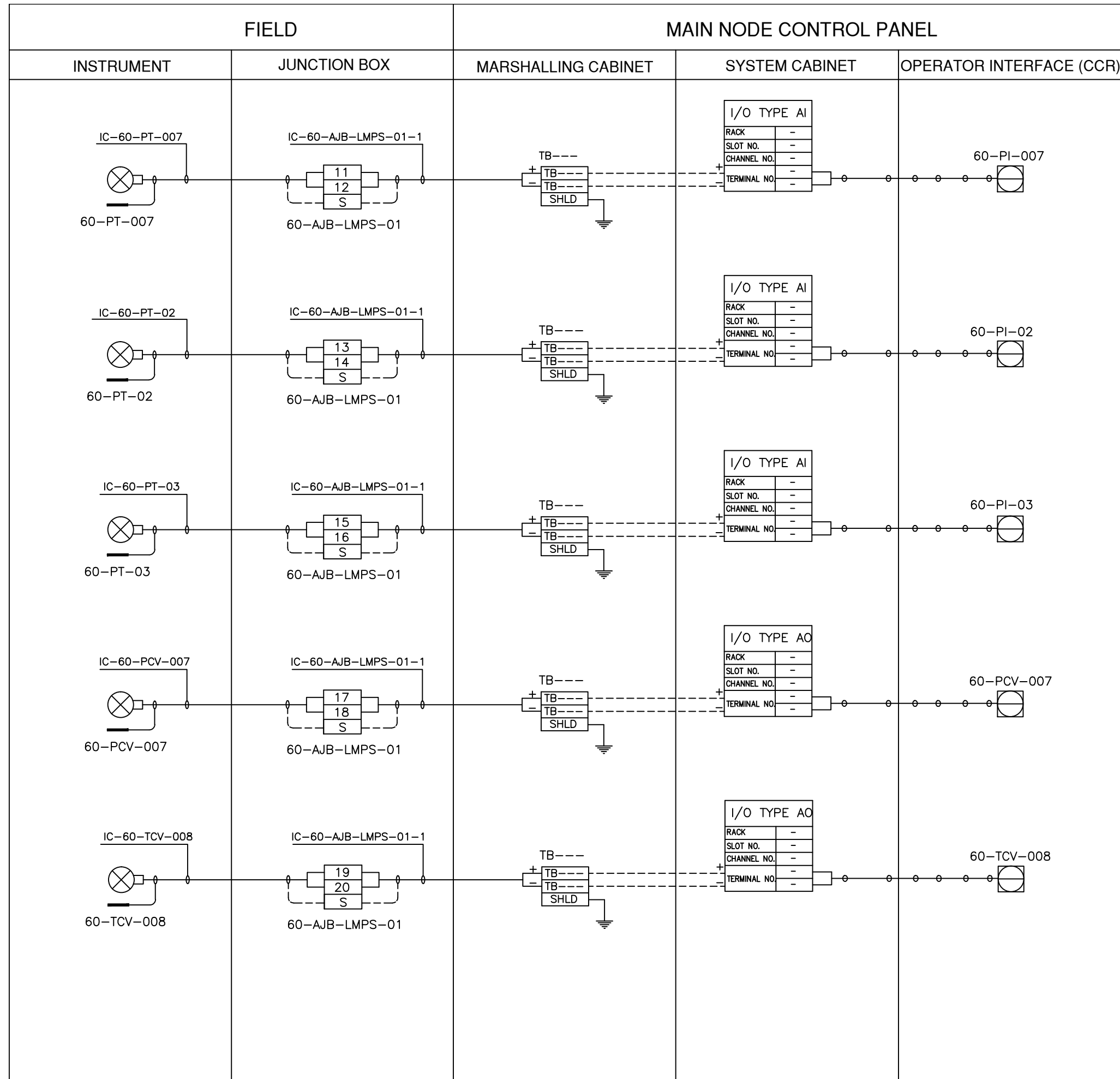


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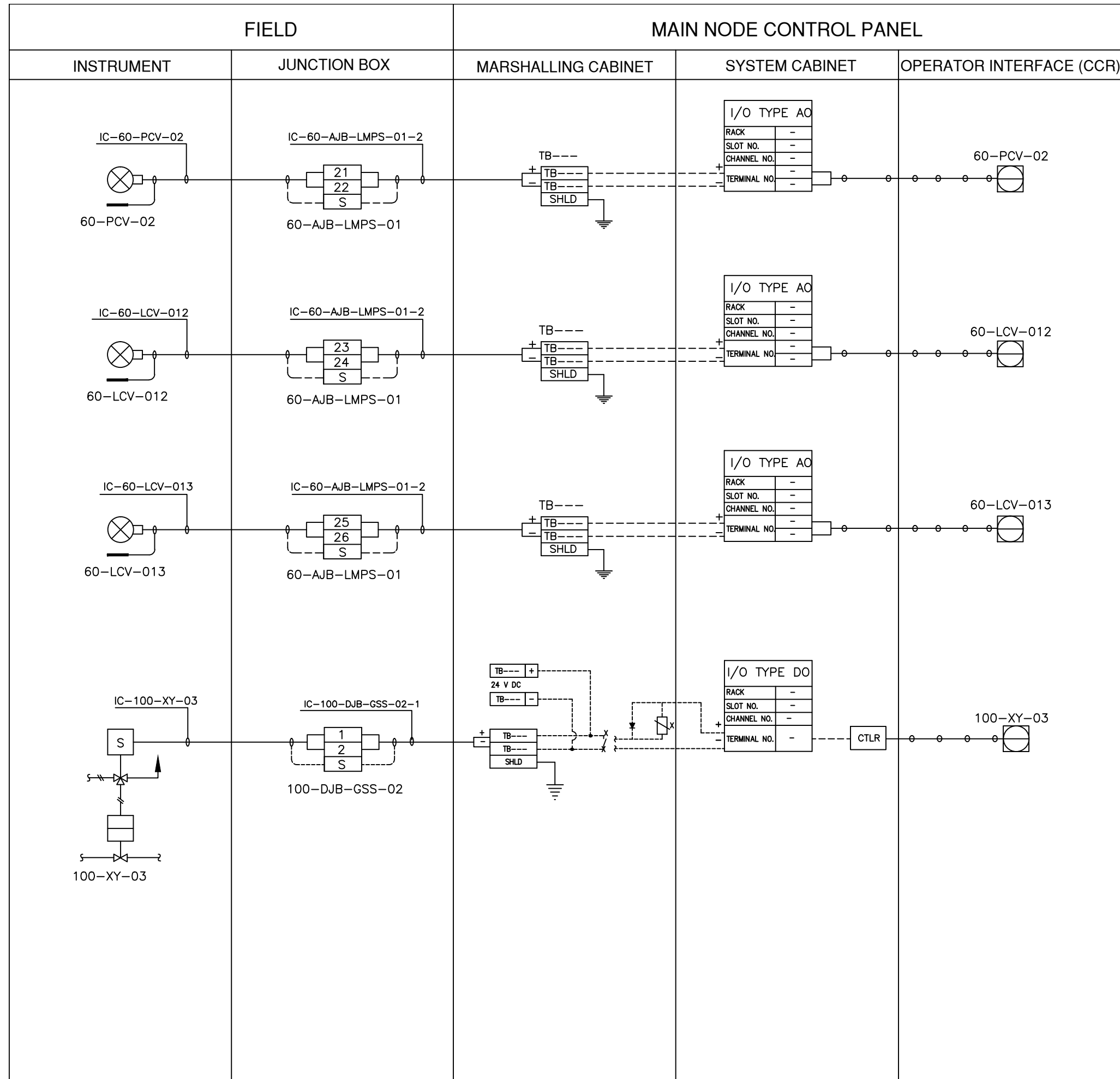


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 ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 47			
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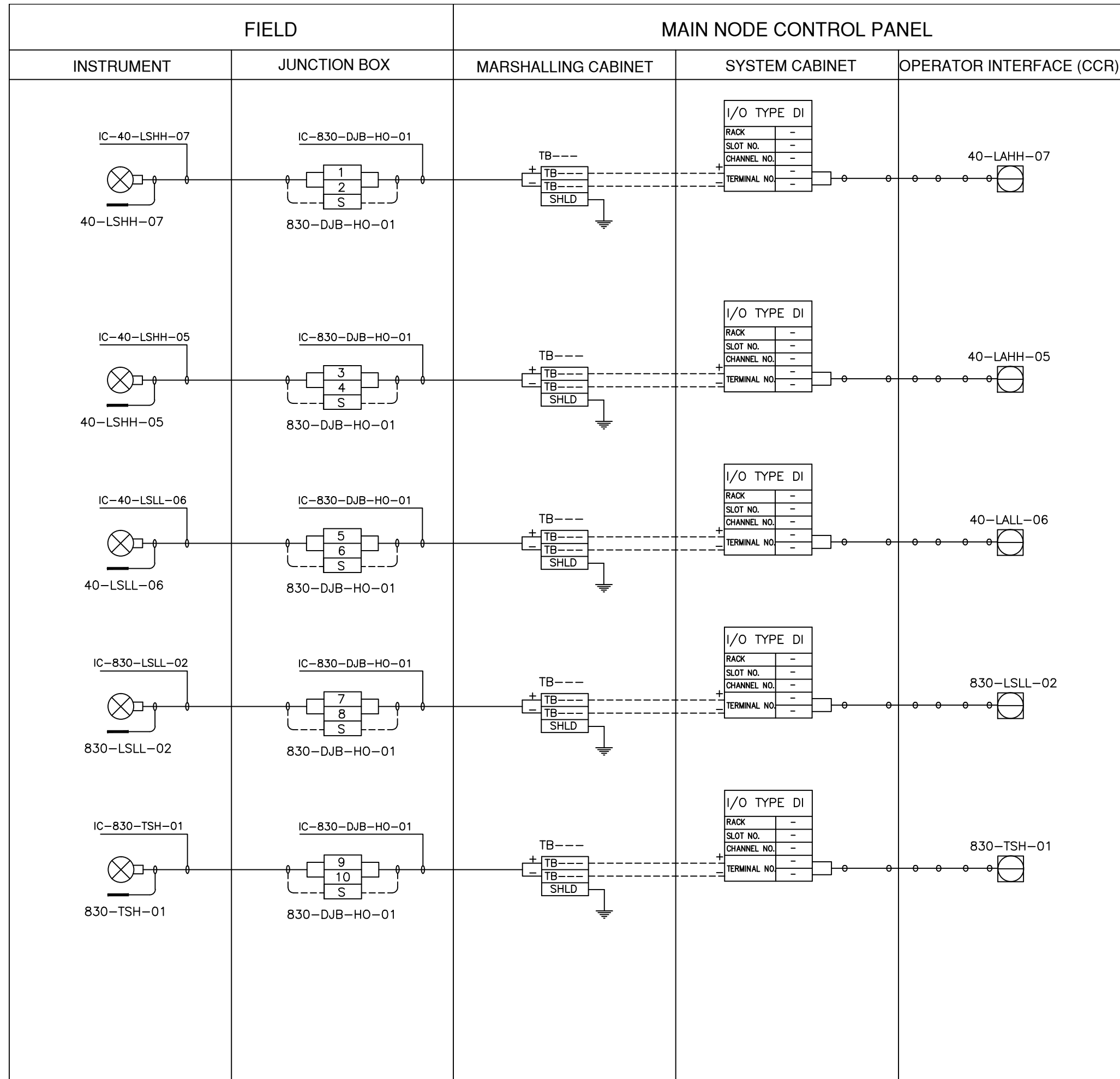


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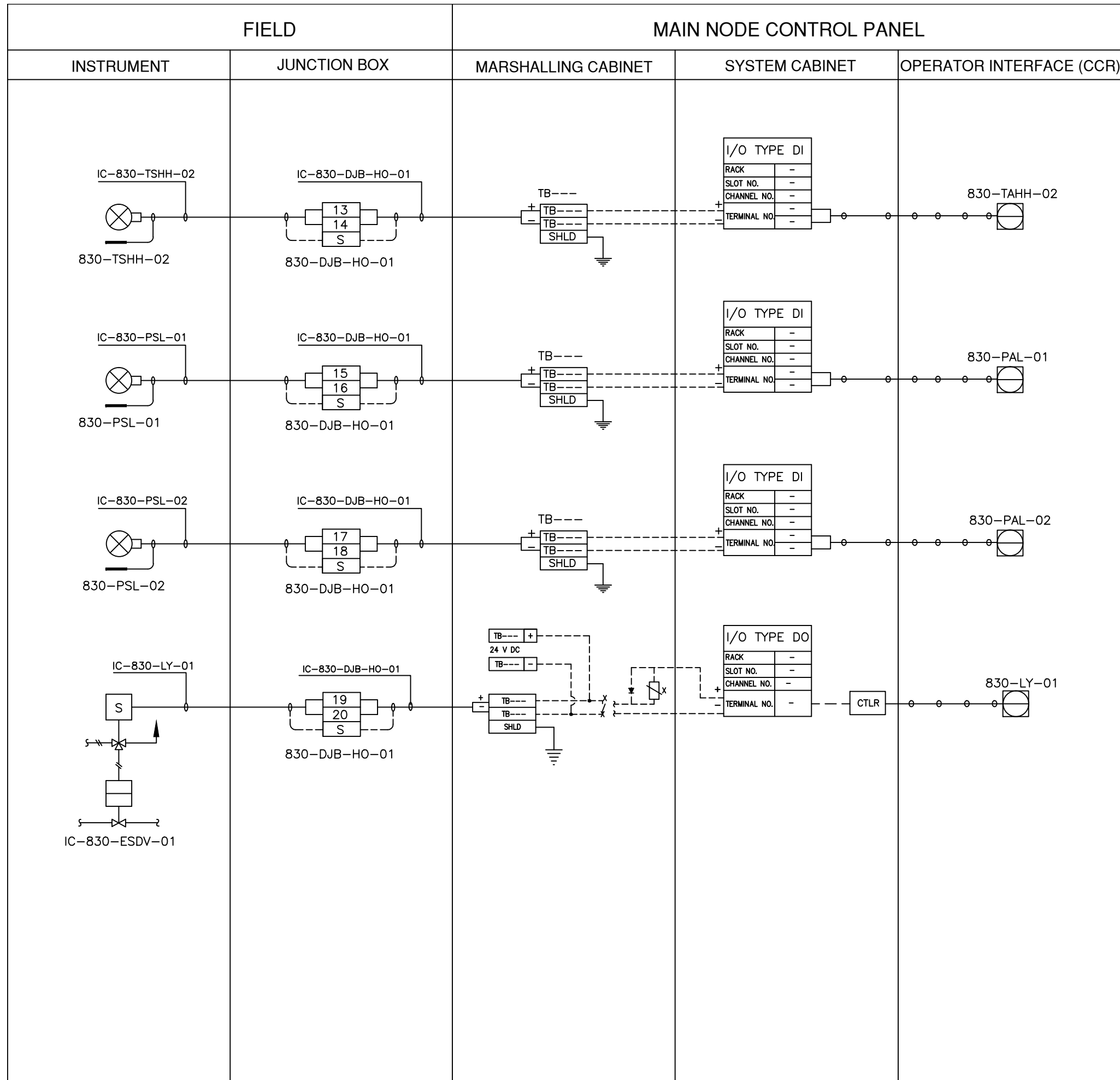


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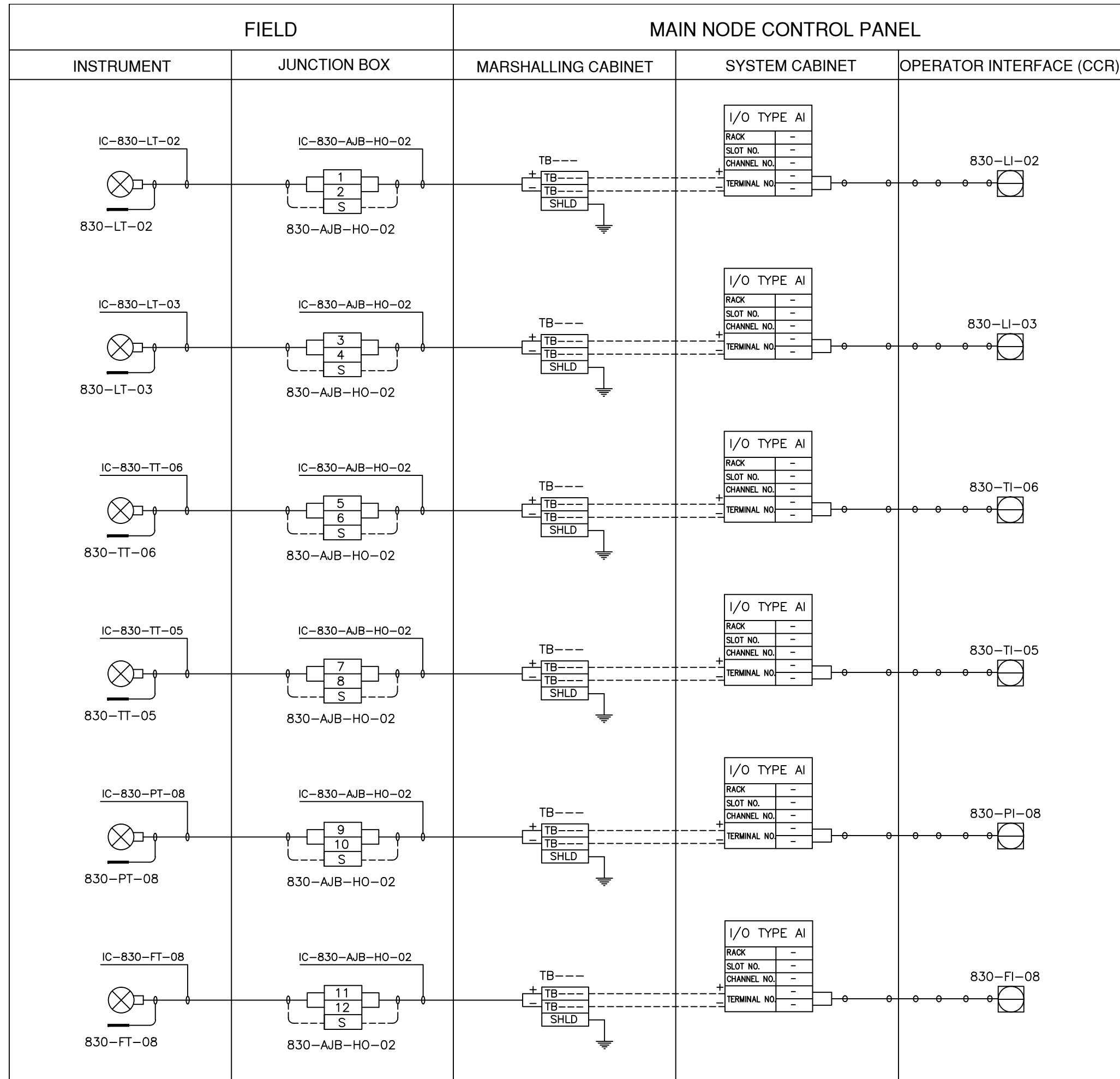
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OIL & GAS DEVELOPMENT COMPANY LIMITED			0162-IMF-6380			
DAKHNI GAS PLANT INSTRUMENT UPGADATION PROJECT			SHEET:- 50			
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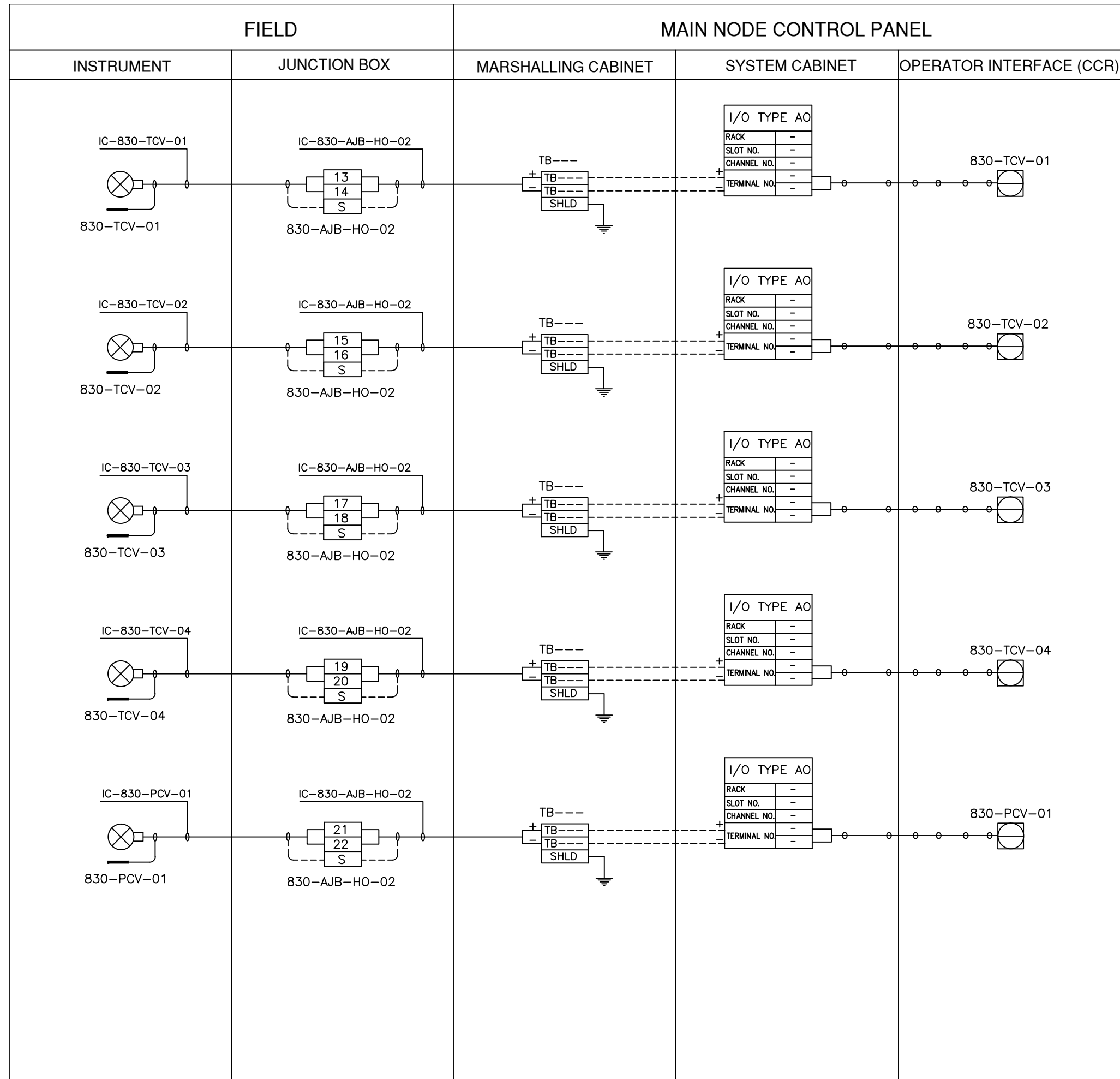
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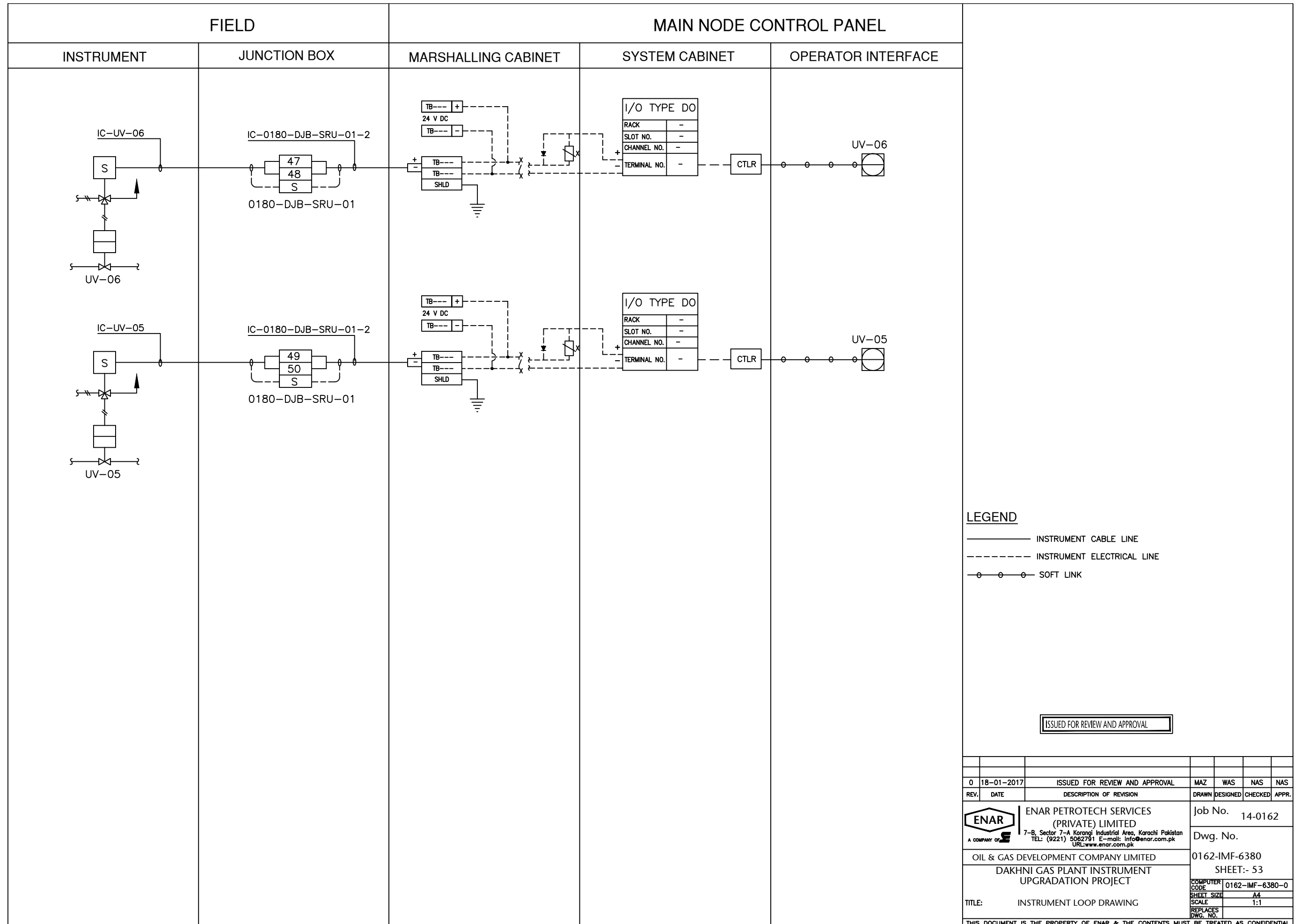
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ENAR PETROTECH SERVICES (PRIVATE) LIMITED 7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk			Job No. 14-0162 Dwg. No. 0162-IMF-6380 SHEET:- 52			
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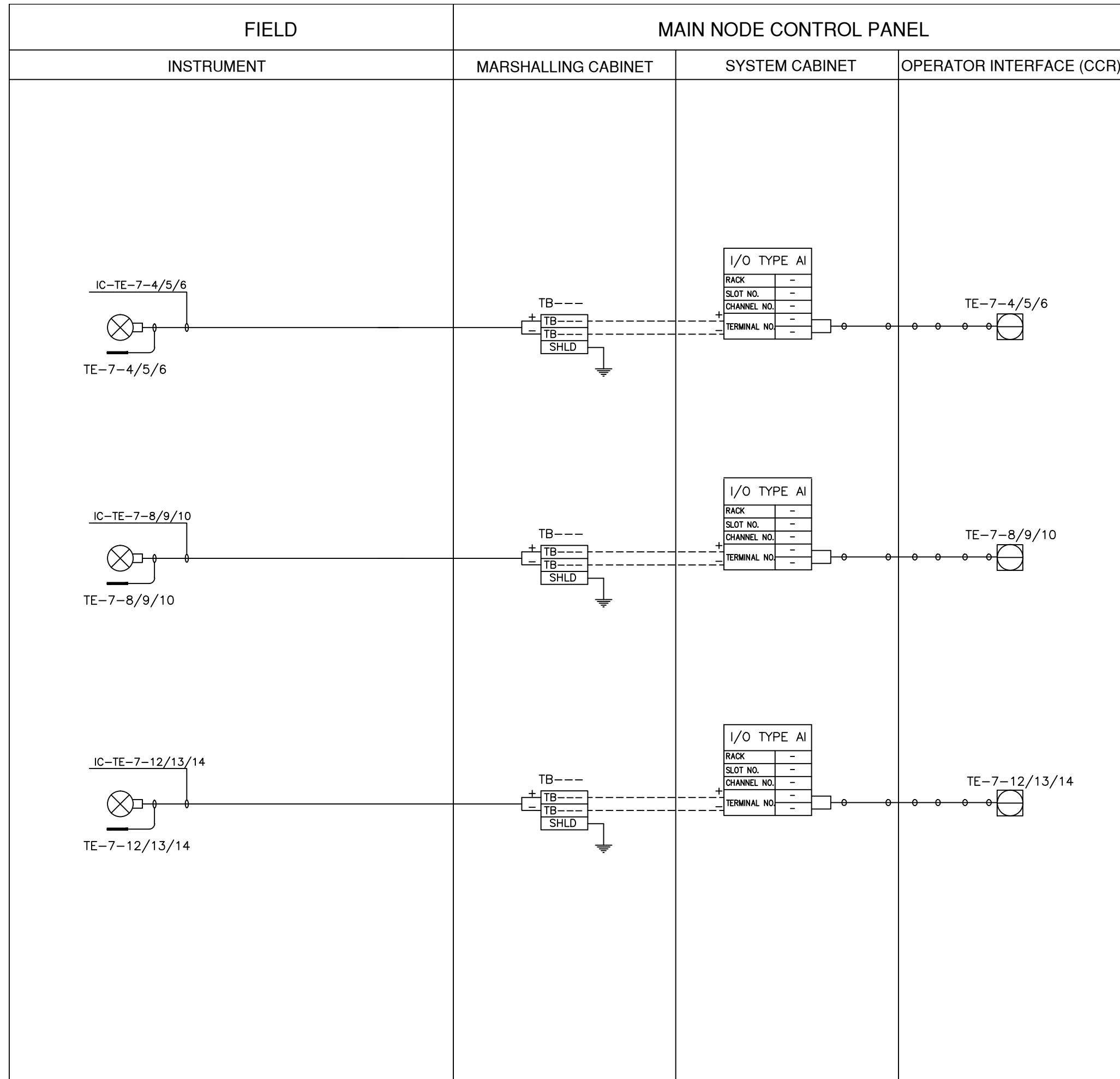


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ENAR PETROTECH SERVICES (PRIVATE) LIMITED <small>7-B, Sector 7-A Korangi Industrial Area, Karachi Pakistan TEL: (9221) 5062791 E-mail: info@enar.com.pk URL: www.enar.com.pk</small>			Job No. 14-0162			
OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT			SHEET:- 53			
TITLE: INSTRUMENT LOOP DRAWING			COMPUTER CODE	0162-IMF-6380-0		
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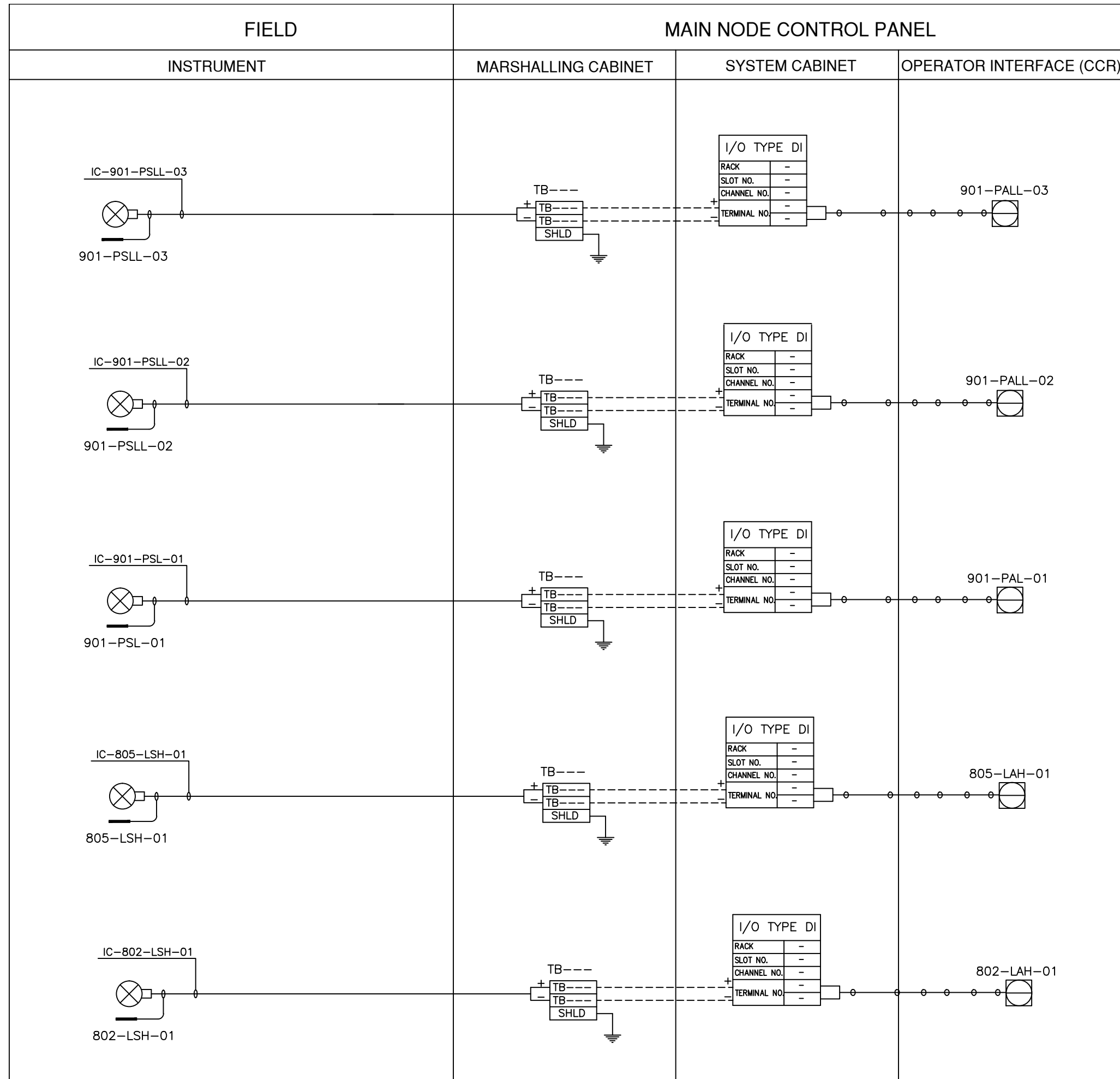
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OIL & GAS DEVELOPMENT COMPANY LIMITED DAKHNI GAS PLANT INSTRUMENT UPGADATION PROJECT			COMPUTER CODE 0162-IMF-6380-0 SHEET SIZE A4 SCALE 1:1 REPLACES DWG. NO.			
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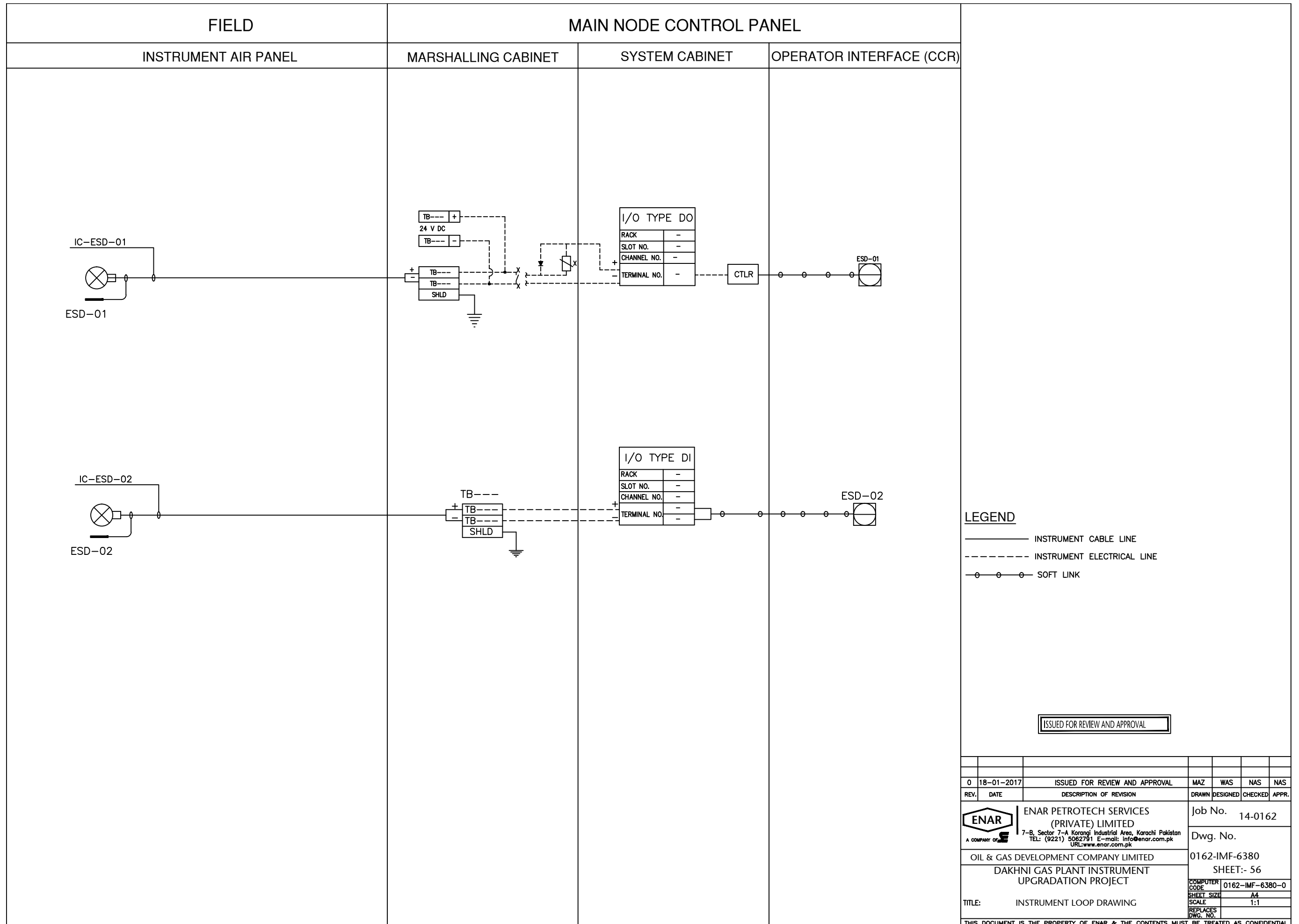


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OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
DAKHNI GAS PLANT INSTRUMENT UPGRADEATION PROJECT			SHEET:- 55			
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OIL & GAS DEVELOPMENT COMPANY LIMITED			Dwg. No. 0162-IMF-6380			
DAKHNI GAS PLANT INSTRUMENT UPGRADATION PROJECT			SHEET:- 56			
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