

LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM

[illegible]

NOTES:

1– ALL AMMETERS OF MOTORS HAVE TO BE 6xIn.

2– CATEGORY DESCRIPTION:

F1: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.

F2: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS.

F3: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS.

F4: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.

F5: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS.

F6: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS.

F7: SIMPLE 2–POLE MCCB FEEDER FOR FEEDING SINGLE PHASE LOADS (PH+N OR 2–PH)

M1: DIRECT ON LINE MOTOR STARTER FEEDERS FOR P < 4kW
(SWITCH FUSE + CONTACTOR + BIMETAL + R/L SIGNALING)

M2: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 4kW ≤ P < 18.5kW
(SWITCH FUSE + CONTACTOR + BIMETAL + R/L SIGNALING + R/L AMMETER)

M3: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 18.5kW ≤ P < 30kW
SWITCH FUSE + CONTACTOR + BIMETAL + R/L SIGNALING + R/L AMMETER + (49, 50G + PHASE CONTROL)

M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 30kW ≤ P
(SWITCH FUSE + CONTACTOR + R/L SIGNALING+ R/L AMMETER + MOTOR PROTECTION RELAY(MPR),(49, 50G & PHASE CONTROL)

3– CORE BALANCE CT RATING OF EARTH LEAKAGE RELAYS SHALL BE ACCORDING TO RELAY MANUFACTURER STANDARD.

4– VOLTAGE AND CURRENT TRANSFORMERS SHALL HAVE APPROPRIATE VA.

5– THIS SWITCHGEAR SHALL BE DESIGNED, MANUFACTURED, INSPECTED AND TESTED IN ACCORDING WITH THE APPLICABLE SECTION OF IPS–E–EL–100(1) & IPS–E–EL–143(3)

6– ALL SWITCH FUSES SHALL BE EQUIPPED WITH STRIKER PIN

7– ALL EQUIPMENT SIZING SHALL BE FINALIZED BY MANUFACTURER BASED ON SITE CONDITION. IN ADDITION, TYPE 2 OF COORDINATION SHALL BE FOLLOWED BY VENDOR.

8– WHEN FUNCTION 27 IS ACTIVATED, ALL OUTGOING FEEDERS SHALL BE TRIPPED.

9– STATUS FROM BUS TIE & LV INCOMING TO DCS SHALL BE CONSIDERED BY VENDOR.

10– STOP & START PUSH BUTTON SHALL BE CONSIDERED ON INCOMINGS & BUS–TIEs.

11– CONTROL CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED FOR EACH LV CUBICLE. IN OTHER WORDS FOR EACH LV CUBICLE ONE ISOLATED DRY TYPE TRANSFORMER SHALL BE CONSIDERED BY VENDOR.

12– FOR FEEDER WITH TYPE M3,M4, CURRENT AND VOLTAGE FAULT SHALL BE CONSIDERED SEPARATELY BY VENDOR

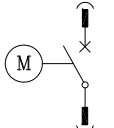
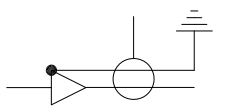
13– MICROPROCESSOR TYPE PROTECTIVE RELAYS SHALL BE EQUIPPED WITH RS 485 TO SEND SIGNALS BY SERIAL LINK

14– MCCB TYPE OUTGOING FEEDER SHALL BE EQUIPED WITH ROTARY SWITCH

15– CONNECTION BETWEEN MEASURING UNIT AND DCS SHALL BE RS 485 TO SEND SIGNALS BY SERIAL LINK.

D03

							NOTES					
							LEGEND					
							REFERENCE DRAWING			DRG. No.		
							ELECTRICAL LOAD LIST			BK-GCS-PEDCO-120-EL-LI-0001		
							ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL			BK-GCS-PEDCO-120-EL-DG-0002		
							KEY PLAN					
							</					

LEGEND	
	WITHDRAWABLE AIR CIRCUIT BREAKER WITH MOTORIZED & MANUALLY CHARGED STORED ENERGY MECHANISM
	CONTACTOR (CONTACT OPEN IN THE UNOPERATED POSITION)(N.O.)
	PUSH BUTTON STATION START-STOP WITH AMMETER (W/P)
	ZERO SEQUENCE CURRENT TRANSFORMER (CORE-BALANCE)
	SYNCHRONIZING CHECK RELAY
	UNDER VOLTAGE RELAY
	REVERSE PHASE OR PHASE BALANCE CURRENT RELAY
	PHASE SEQUENCE OR PHASE BALANCE VOLTAGE RELAY
	THERMAL OVERLOAD RELAY
	INSTANTANEOUS OVER CURRENT RELAY
	TIME DELAYED OVER CURRENT RELAY
	INSTANTANEOUS EARTH FAULT RELAY
	INVERSE TIME EARTH FAULT RELAY
	INSTANTANEOUS EARTH FAULT RELAY (BY ZERO SEQUENCE CT)
	INSTANTANEOUS EARTH FAULT RELAY (BY ZERO SEQUENCE CT)
	OVER VOLTAGE RELAY
	LIQUID AND GAS PRESSURE RELAY
	GROUND DETECTOR RELAY
	TRIP CIRCUIT SUPERVISION
	LOCK OUT RELAY
	INTERTRIP RECEIVE RELAY
	THERMAL OVERLOAD RELAY (49)
	PHASE SEQUENCE OR PHASE BALANCE RELAY (47)

MOULDED CASE CIRCUIT BREAKER, MANUALLY OPERATED
WITH THERMAL MAGNETIC OVER CURRENT RELAY

OPERATING DEVICE GENERAL SYMBOL

PUSH BUTTON STATION
START-STOP WITH AMMETER (EX.)

LOAD BREAK SWITCH

PUSH BUTTON STATION START-STOP (W/P)

PUSH BUTTON STATION START-STOP (EX.)

SWITCH FUSE

VOLTMETER SELECTOR SWITCH

AMMETER SELECTOR SWITCH

SELECTOR SWITCH

LED TYPE SIGNAL LAMP

TRANSFORMER

CURRENT TRANSFORMER

MOTOR

ALARM WINDOW WITH RESET & ACKNOWLEDGE

CABLE GLAND

CABLE SEALING END

WITHDRAWABLE PART MECHANICAL INTERLOCK

POWER CABLE CONTROL CABLE

MOTOR PROTECTION RELAY

START PUSH BUTTON EMERGENCY STOP, MUSHROOM TYPE

D03

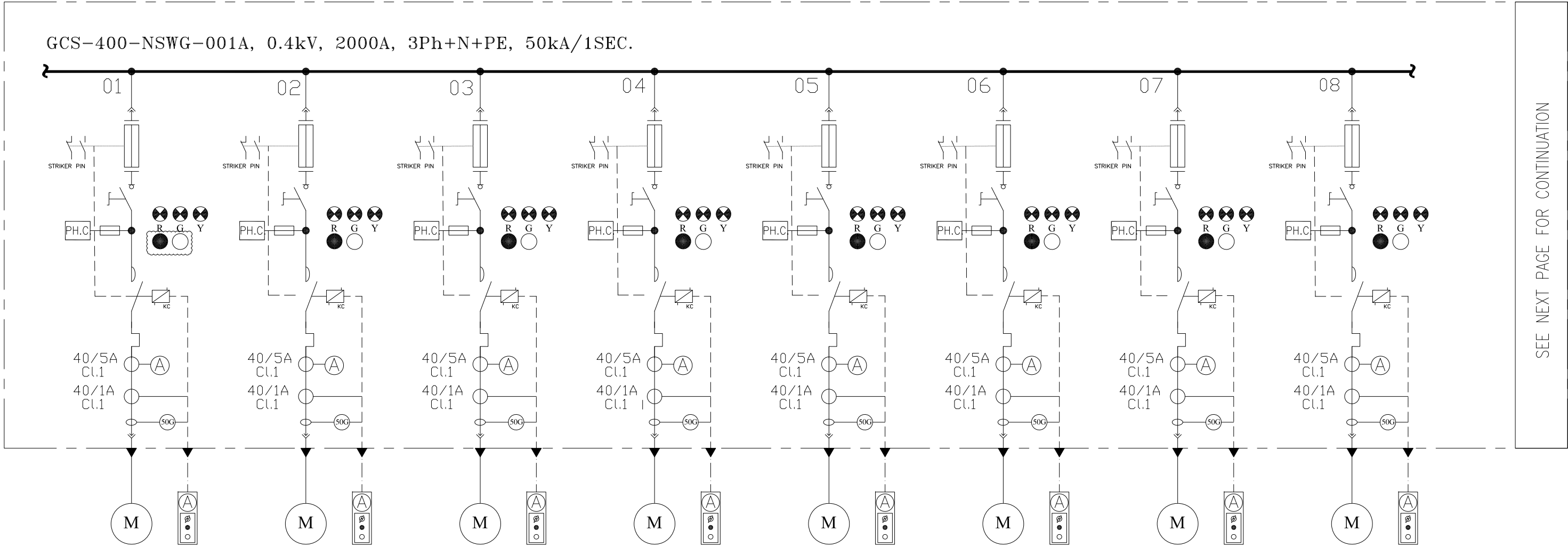
NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03	AUG.2022	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***							
D02	MAY.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	***	*****	
D01	APR.2022	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE	
D00	DEC.2021	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.		
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملي مناطق نفت خيز جنوب مي باشد.						
PROJECT NAME:									THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS				
PROJECT NO.:									971020				
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION						
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY										
							DATE		SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
							APPROVED FOR CONSTRUCTION			BY:	DATE:		
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			03 OF 17	D03	053-073-9184	F	2	P	709035	03 OF 17	D03



CATEGORY	M3	M3	M3	M3	M3	M3	M3	M3
CODE	AC-2121A	AC-2122A	AC-2121C	AC-2122C	AC-2131A	AC-2132A	AC-2131C	AC-2132C
POWER (kW)	18.5KW	18.5KW	18.5KW	18.5KW	18.5KW	18.5KW	18.5KW	18.5KW
C.B TYPE/RATING	-	-	-	-	-	-	-	-
FUSE TYPE/RATING	aM/40A	aM/40A	aM/40A	aM/40A	aM/40A	aM/40A	aM/40A	aM/40A
CONTACTOR RATING (A)	18.5KW <AC3>	18.5KW <AC3>	18.5KW <AC3>	18.5KW <AC3>	18.5KW <AC3>	18.5KW <AC3>	18.5KW <AC3>	18.5KW <AC3>
OVER LOAD SETTING RANGE	30 ... 40 A	30 ... 40 A	30 ... 40 A	30 ... 40 A	30 ... 40 A	30 ... 40 A	30 ... 40 A	30 ... 40 A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	FIRST STAGE AIR COOLER 21A	FIRST STAGE AIR COOLER 22A	FIRST STAGE AIR COOLER 21C	FIRST STAGE AIR COOLER 22C	FIRST STAGE AIR COOLER 31A	FIRST STAGE AIR COOLER 32A	FIRST STAGE AIR COOLER 31C	FIRST STAGE AIR COOLER 32C

NOTES

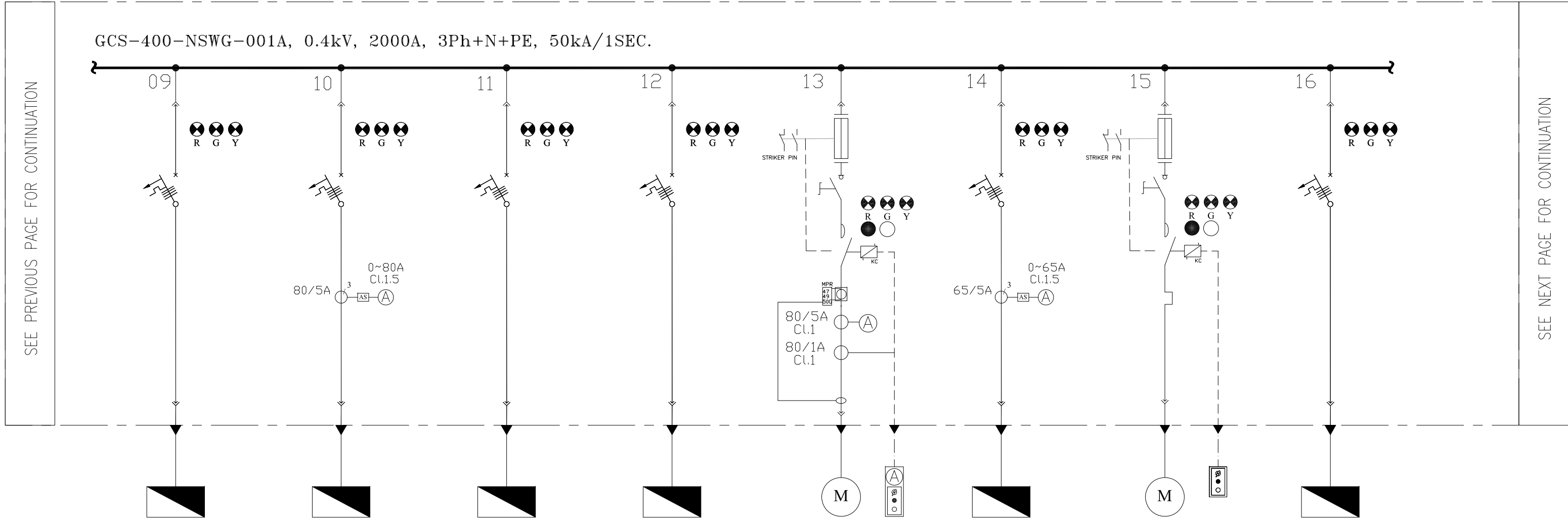
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N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			04 OF 17	D03	053-073-9184	F	2	P	709035	04 OF 17	D03	



CATEGORY	F1	F2	F1	F1	M4	F2	M1	F1
CODE	PK-Dr-2203A	PK-C-2204	PK-2204	PK-2201	P-2101A	P-2302A	P-2103A	GCS-400-CR-02
POWER (kW)	2KW	30KW	2KW	22.5KW	30KW	20KW	1.5KW	5KW
C.B TYPE/RATING	16A	80A	16A	50A	-	63A	-	32A
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	aM/80A	N/A	aM/4A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	30KW (AC3)	N/A	1.5KW (AC3)	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	48 ... 65 A	N/A	2.5 ... 4 A	N/A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	AIR DRYER PACKAGE A	AIR COMPRESSOR FOR N2 PACKAGE	NITROGEN PACKAGE	LP FLARE PACKAGE	SLUG PUMP A	FIRE WATER JOCKEY PUMP A	GLYCOL TRANSFER PUMP A	FIRE WATER PUMPS CRANE

NOTES

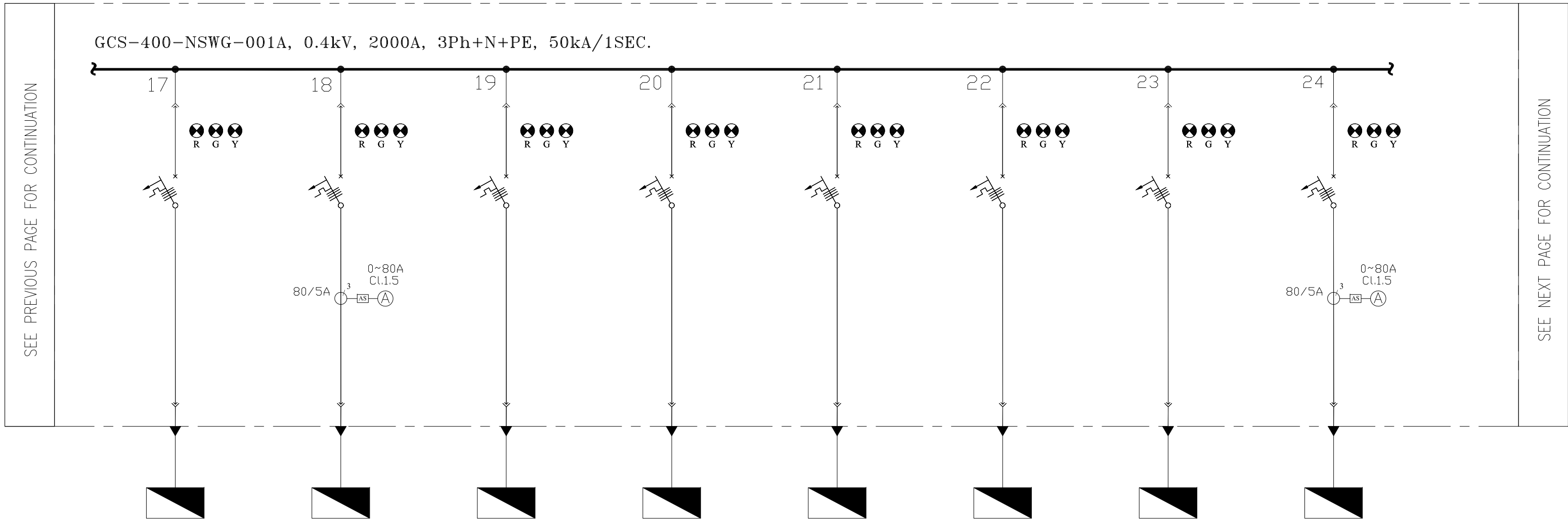
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DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM							APPROVED FOR CONSTRUCTION		BY:		DATE:		
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			05 OF 17	D03	053-073-9184	F	2	P	709035	05 OF 17	D03



CATEGORY	F1	F2	F1	F1	F1	F1	F1	F2
CODE	GCS-400-NDP-02	GCS-400-WS-02	GCS-400-CP01	GCS-110-CHG-001	GCS-24-CHG-001	MOV 1	MCC-2101A	GCS-400-NDP-SWHVAC
POWER (kW)	10kW	35kW	5KW	20kW	18.5KW	2KW	25KW	38KW
C.B TYPE/RATING	32A	80A	16A	50A	50A	16A	50A	80A
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	UTILITY AREA NORMAL DISTRIBUTION PANEL	WELDING RECEPTACLE (UTILITY AREA)	CATHODIC PROTECTION TRANSFORMER RECTIFIER1	110VDC CHARGER 1	24VDC CHARGER 1	MOV 1	AUXILIARY PANEL FOR GAS COMPRESSOR C-2101A	SWITCHGEAR HVAC PANEL

NOTES

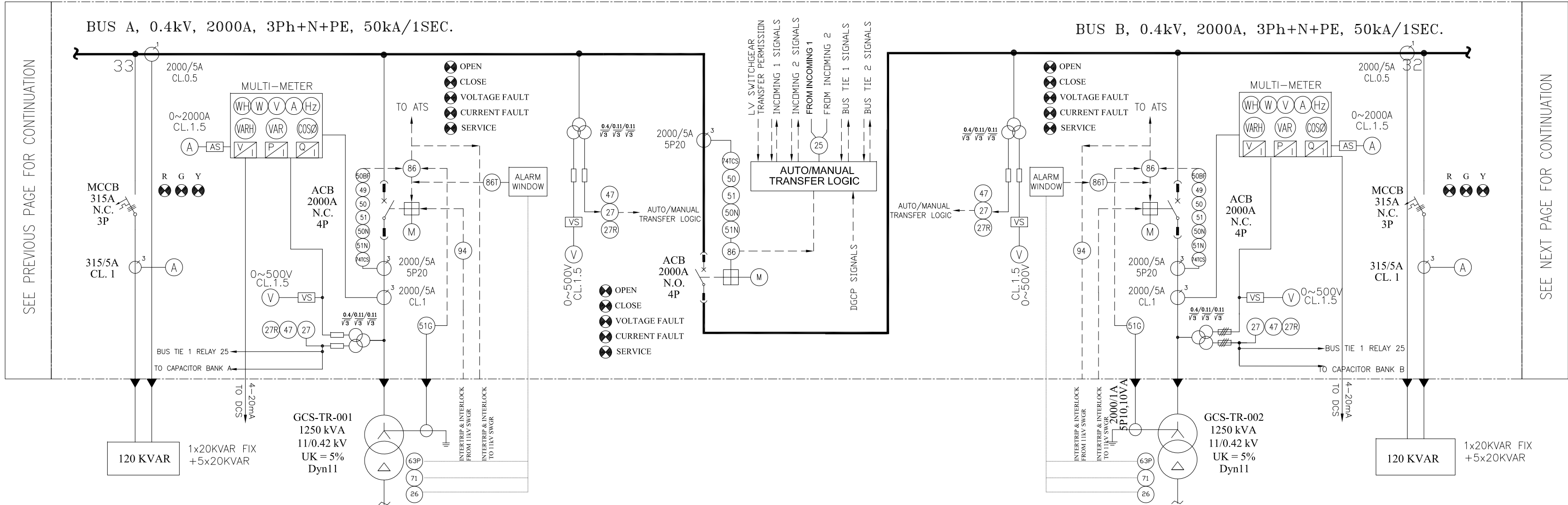
LEGEND

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ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

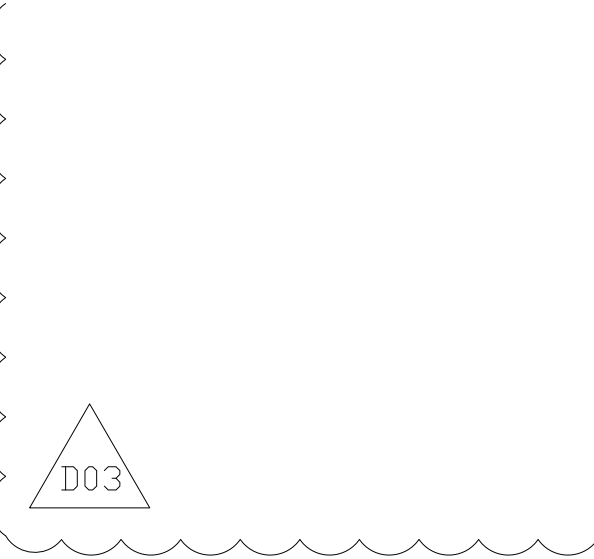
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							PETROIRAN DEVELOPMENT COMPANY						
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			PEDCO										
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N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002		06 OF 17	D03	053-073-9184	F	2	P	709035	06 OF 17	D03	



CATEGORY	F3	IN.1	VOLTAGE TRANSFORMERTR	CO.1	VOLTAGE TRANSFORMERTR	IN.2	F3
CODE	CAP-01	GCS-TR-001	N/A	N/A	N/A	GCS-TR-001	CAP-02
POWER (kW)	120KVAR	1250KVA	250VA	N/A	250VA	1250KVA	120KVAR
C.B TYPE/RATING	MCCB-315 A	(ACB+M)/2000A	MCB 6A	(ACB+M)/2000A	MCB 6A	(ACB+M)/2000A	MCCB-315 A
FUSE TYPE/RATING	N/A	N/A	gG/4A	N/A	gG/4A	N/A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE SIZE	-	-	N/A	N/A	N/A	-	-
DESCRIPTION OF FEEDER	LV CAPACITOR BANK 01	INCOMING FROM TRANSFORMER	BUS A CONTROL TRANSFORMER	COUPLING	BUS A CONTROL TRANSFORMER	INCOMING FROM TRANSFORMER	LV CAPACITOR BANK 02



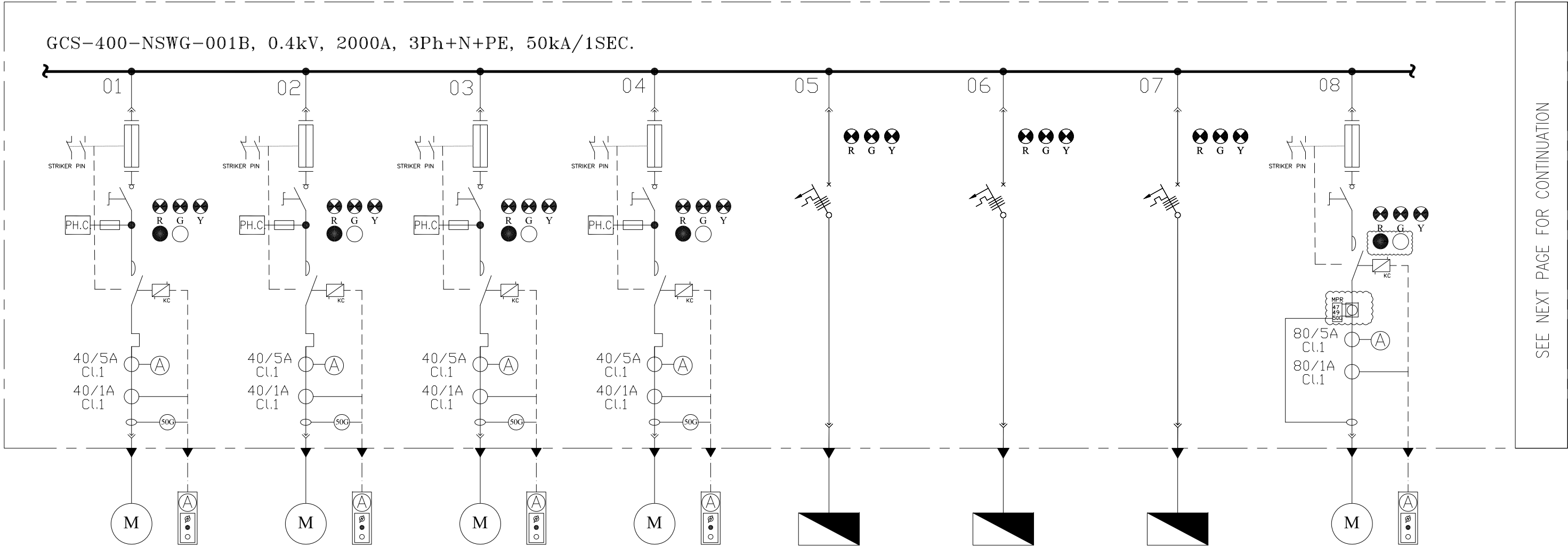
NOTES

1-VOLTMETER SELECTOR SWITCH SHALL BE ABLE TO SHOW SINGLE PHASE VOLTAGE.
2-CONNECTION BETWEEN MEASURING UNIT AND DCS WILL BE RS 485 TO SEND SIGNALS BY SERIAL LINK.

LEGEND

KEY PLAN

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PROJECT NAME:							BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION																						
PROJECT NO.:							971020																						
EPC CONTRACTOR:							EPD/EPC CONTRACTOR (GC):																						
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES							 PETROIRAN DEVELOPMENT COMPANY																						
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N.T.S							A2		BK-GCS-PEDCO-120-EL-SL-0002			08 OF 17		D03		053-073-9184		F		2		P		709035		08 OF 17		D03	



SEE NEXT PAGE FOR CONTINUATION

CATEGORY	M3	M3	M3	M3	F1	F1	F1	M4
CODE	AC-2121B	AC-2122B	AC-2131B	AC-2132B	PK-Dr-2203B	PK-2207	PK-2101	P-2101B
POWER (kW)	18.5KW	18.5KW	18.5KW	18.5KW	2KW	2KW	20KW	30KW
C.B TYPE/RATING	-	-	-	-	16A	16A	50A	-
FUSE TYPE/RATING	aM/40A	aM/40A	aM/40A	aM/40A	N/A	N/A	N/A	aM/80A
CONTACTOR RATING (A)	18.5KW (AC3)	18.5KW (AC3)	18.5KW (AC3)	18.5KW (AC3)	N/A	N/A	N/A	30KW (AC3)
OVER LOAD SETTING RANGE	30 ... 40 A	30 ... 40 A	30 ... 40 A	30 ... 40 A	N/A	N/A	N/A	48 ... 65 A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	FIRST STAGE AIR COOLER 21B	FIRST STAGE AIR COOLER 22B	SECOND STAGE AIR COOLER 31B	SECOND STAGE AIR COOLER 32B	AIR DRYER PACKAGE B	CORROSION INHIBITOR PACKAGE	DEHYDRATION PACKAGE	SLUG PUMP B

NOTES

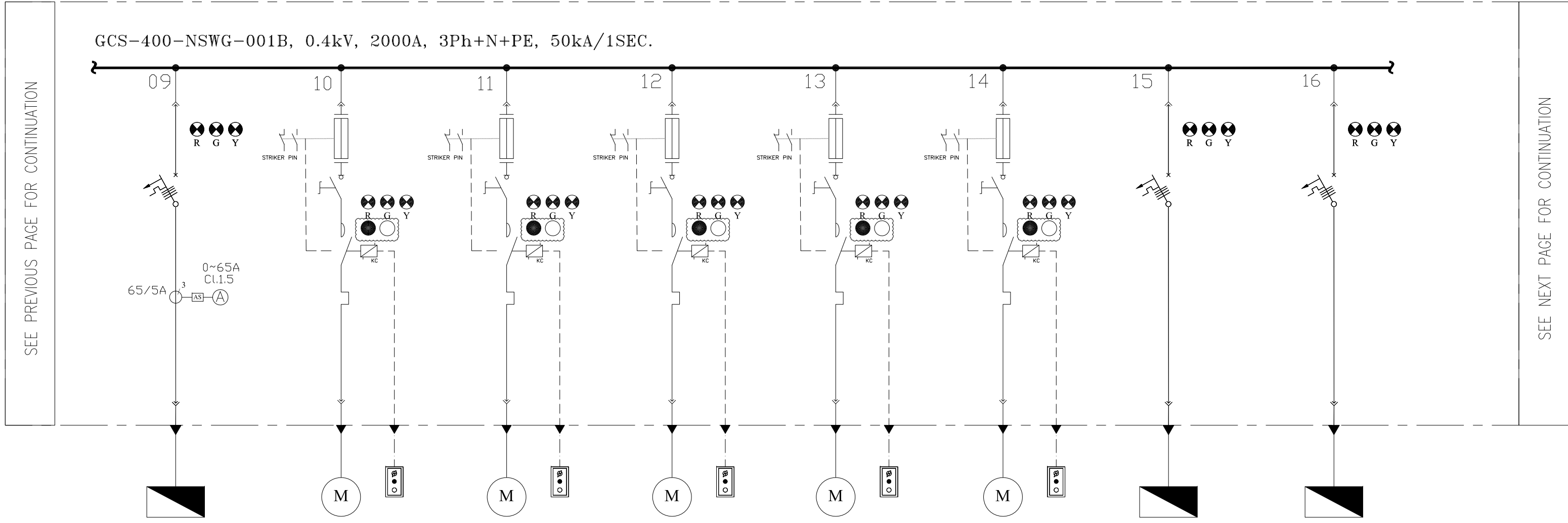
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ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
D02	MAY.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	***	***	***	***	
D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE			
D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.				
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب ميباشد.								
PROJECT NAME:								THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS							
PROJECT NO.:								971020							
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION								
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PEDCO				 PETROIRAN DEVELOPMENT COMPANY								
							DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.				
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED								
							APPROVED FOR CONSTRUCTION				BY:	DATE:			
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION		
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			09 OF 17	D03	053-073-9184	F	2	P	709035	09 OF 17	D03		



CATEGORY	F2	M1	M1	M1	M1	M1	F1	F1
CODE	P-2302B	P-2209	P-2206	P-2103B	P-2102	P-2104	GCS-400-CR-01	GCS-400-NDP-01
POWER (kW)	20KW	2.2KW	2.2KW	1.5KW	1.1KW	1.1KW	10KW	20KW
C.B TYPE/RATING	63A	-	-	-	-	-	32A	50A
FUSE TYPE/RATING	N/A	aM/6A	aM/6A	aM/4A	aM/4A	aM/4A	N/A	N/A
CONTACTOR RATING (A)	N/A	2.2KW (AC3)	2.2KW (AC3)	1.5KW (AC3)	1.1KW (AC3)	1.1KW (AC3)	N/A	N/A
OVER LOAD SETTING RANGE	N/A	4 ... 6 A	4 ... 6 A	2.5 ... 4 A	2.5 ... 4 A	2.5 ... 4 A	N/A	N/A
CABLE SIZE	-	-	-	-	-	-	-	
DESCRIPTION OF FEEDER	FIRE WATER JOCKEY PUMP B	POTABLE WATER PUMP	DIESEL OIL PUMP	GLYCOL TRANSFER PUMP B	GLYCOL MANUAL PUMP	GLYCOL DRAIN PUMP	MAIN COMPRESSOR CRANE	PROCESS AREA NORMAL DISTRIBUTION PANEL

NOTES

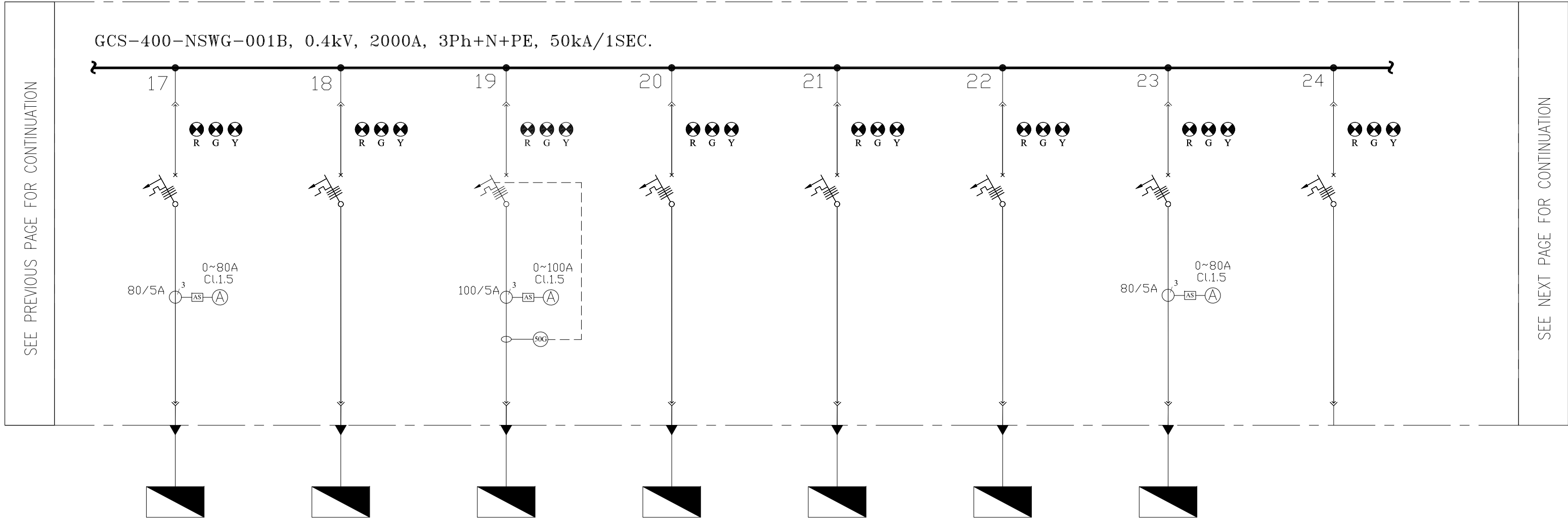
LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***								
D02	MAY.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	**..	***..***	***..	***..***		
D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE		
D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.			
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.							
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							APPROVED FOR CONSTRUCTION			BY:	DATE:			
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION	
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			10 OF 17	D03	053-073-9184	F	2	P	709035	10 OF 17	D03	



CATEGORY	F2	F1	F3	F1	F1	F1	F2	F1
CODE	GCS-400-WS-01	GCS-400-CP02	GCS-110-UPS-001	MOV 2	MCC-2101B	MCC-2101C	GCS-400-NDP-CRM	SPARE
POWER (kW)	35KW	10KW	36KW	2KW	25KW	25KW	30KW	-
C.B TYPE/RATING	80A	32A	100A	16A	50A	50A	80A	16A
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	WELDING RECEPTACLE (3PHASE)(PROCESS AREA)	CATHODIC PROTECTION TRANSFORMER RECTIFIER2	110VAC UPS 1	MOV 2	AUXILIARY PANEL FOR GAS COMPRESSOR C-2101B	AUXILIARY PANEL FOR GAS COMPRESSOR C-2101C	CONTROL ROOM NORMAL DISTRIBUTION PANEL	SPARE

NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

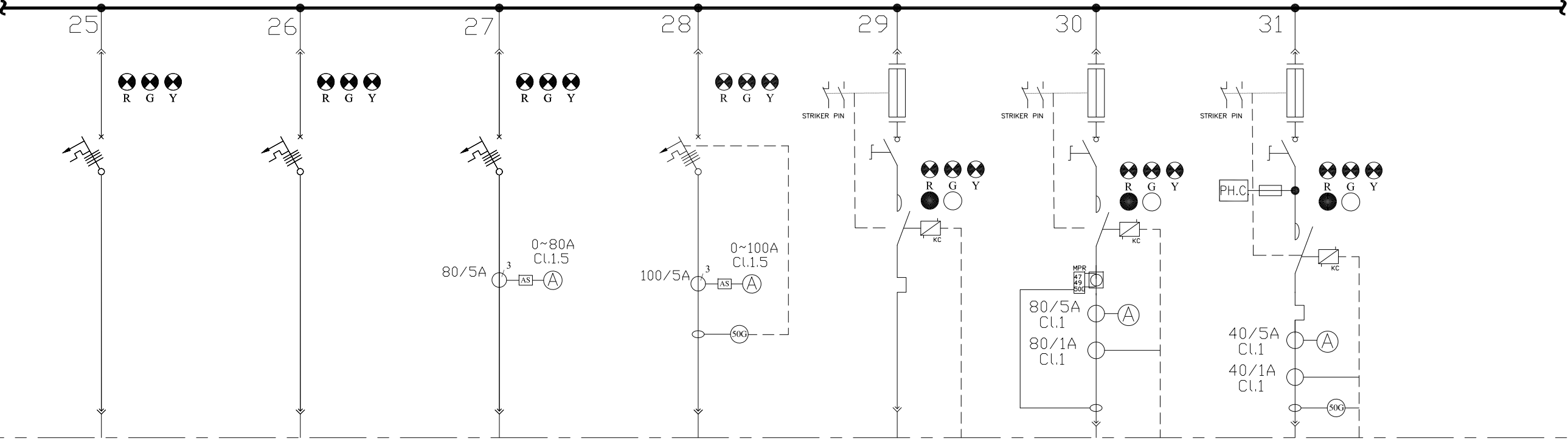
KEY PLAN

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D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***								
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D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE		
D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***								
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب ميباشد.							
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PROJECT NO.:								971020						
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION							
 							PETROIRAN DEVELOPMENT COMPANY							
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			PEDCO											
							DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.			
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM														
SCALE		SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION	
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002		11 OF 17	D03	053-073-9184	F	2	P	709035	11 OF 17	D03		

SEE PREVIOUS PAGE FOR CONTINUATION

GCS-400-NSWG-001B, 0.4kV, 2000A, 3Ph+N+PE, 50kA/1SEC.



SEE NEXT PAGE FOR CONTINUATION

CATEGORY	F1	F1	F2	F3	M1	M4	M3	
CODE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	
POWER (kW)	-	-	-	-	2.2KW	30KW	18.5KW	
C.B TYPE/RATING	32A	50A	80A	100A	-	-	-	
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	αM/6A	αM/80A	αM/40A	
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	2.2KW (AC3)	30KW (AC3)	18.5KW (AC3)	
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	4 ... 6 A	48 ... 65 A	30 ... 40 A	
CABLE SIZE	-	-	-	-	-	-	-	
DESCRIPTION OF FEEDER	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	

NOTES

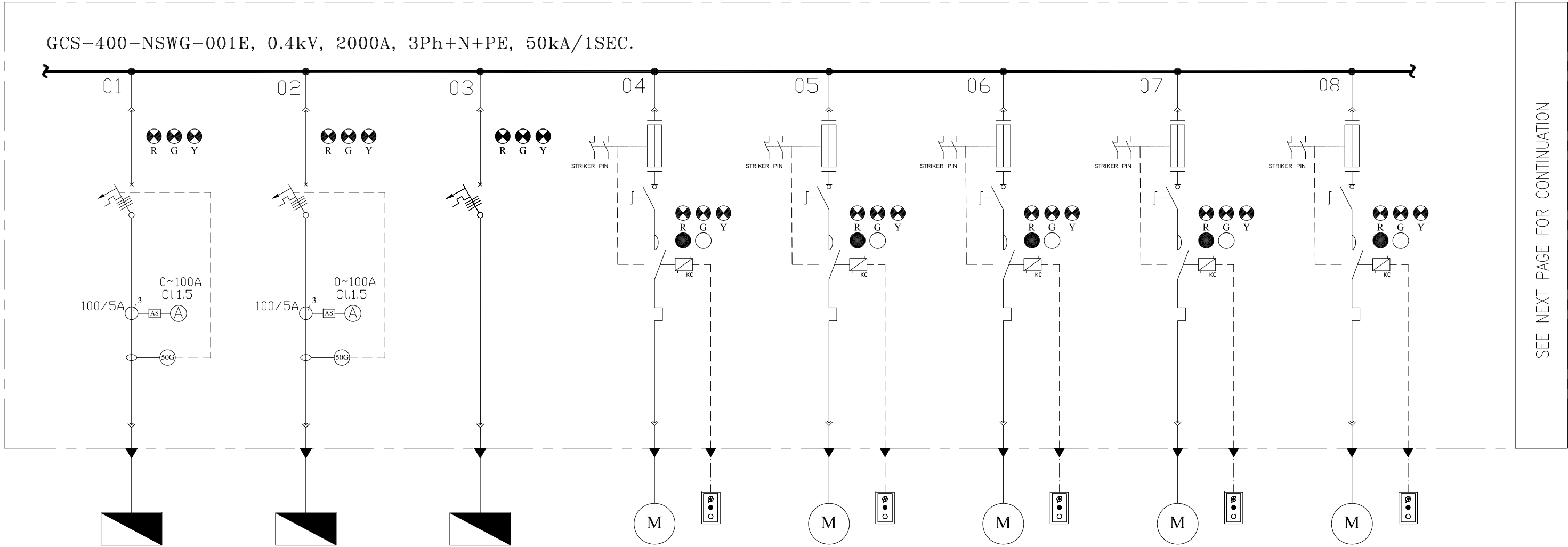
LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
D02	MAY.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	***	***	***	***	
D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE			
D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	احمل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.								
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PROJECT NO.:															
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION								
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY												
							DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.				
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED								
							APPROVED FOR CONSTRUCTION				BY:	DATE:			
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION		
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			12 OF 17	D03	053-073-9184	F	2	P	709035	12 OF 17	D03		



CATEGORY	F3	F3	F1	M1	M1	M1	M1	M1
CODE	PK-C-2203A	PK-C-2203B	IG-2201	P-2203A	P-2203B	P-2202A	P-2202B	P-2201A
POWER (kW)	50KW	50KW	2KW	2.2KW	2.2KW	1.1KW	1.1KW	1.1KW
C.B TYPE/RATING	100A	100A	16A	-	-	-	-	-
FUSE TYPE/RATING	N/A	N/A	N/A	aM/6A	aM/6A	aM/4A	aM/4A	aM/4A
CONTACTOR RATING (A)	N/A	N/A	N/A	2.2KW <AC3>	2.2KW <AC3>	1.1KW <AC3>	1.1KW <AC3>	1.1KW <AC3>
OVER LOAD SETTING RANGE	N/A	N/A	N/A	4 ... 6 A	4 ... 6 A	2.5 ... 4 A	2.5 ... 4 A	2.5 ... 4 A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	INSTRUMENT & PLANT AIR PACKAGE A	INSTRUMENT & PLANT AIR PACKAGE B	LP FLARE IGNITION PACKAGE	SUMP PUMP A	SUMP PUMP B	CLOSED DRAIN PUMP A	CLOSED DRAIN PUMP B	LP FLARE K.O. DRUM PUMP A

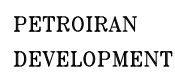
NOTES

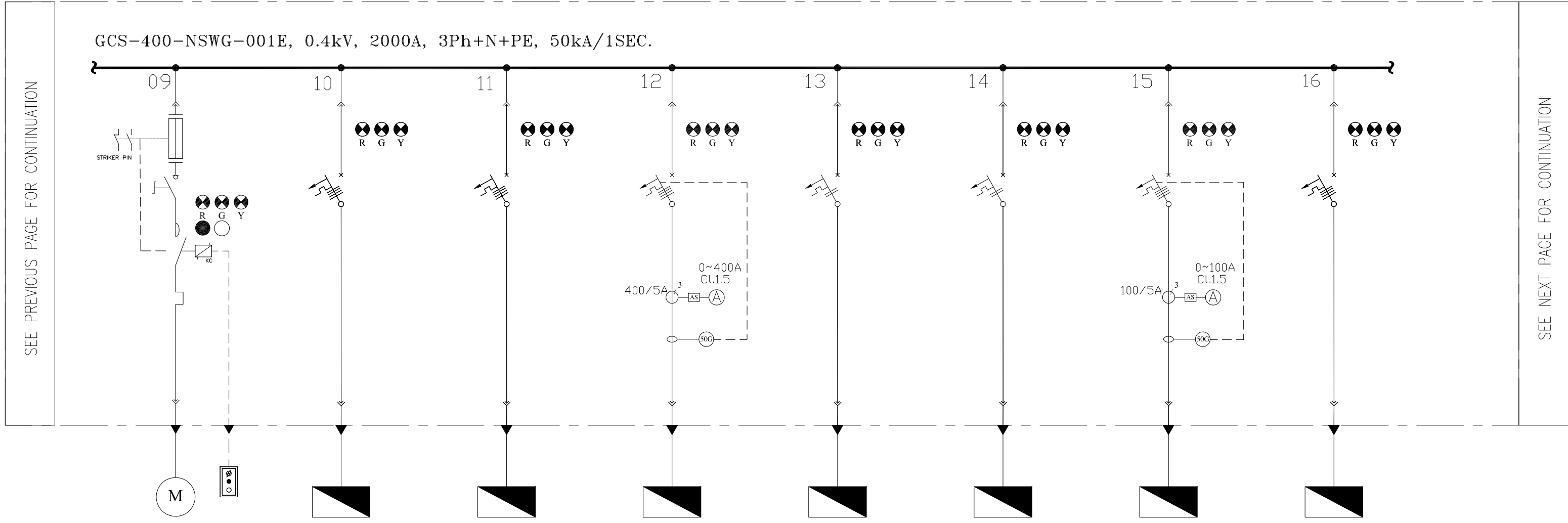
LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***							
D02	MAY.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	***	***	*****
D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE	
D00	DEC.2021	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.		
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب ميباشد.						
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PROJECT NO.:								971020					
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION						
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PEDCO				 PETROIRAN DEVELOPMENT COMPANY						
							DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.		
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM													
SCALE		SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
N.T.S		A2	BK-GCS-PEDCO-120-EL-SL-0002		14 OF 17	D03	053-073-9184	F	2	P	709035	14 OF 17	D03



CATEGORY	M1	F1	F1	F3	F1	F1	F3	F1
CODE	P-2201B	GCS-400-EDP-01	GCS-400-EDP-02	CTRL- HVAC	GCS-110-CHG-002	GCS-24-CHG-002	GCS-110-UPS-002	GCS-110-UPS-Bypass
POWER (kW)	1.1kW	10kW	5kW	150kW	20kW	18.5kW	36kW	20kW
C.B TYPE/RATING	-	32A	32A	400A	50A	50A	100A	50A
FUSE TYPE/RATING	aM/4A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONTACTOR RATING (A)	1.1kW <AC3>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OVER LOAD SETTING RANGE	2.5 ... 4 A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	LP FLARE K.D. DRUM PUMP B	PROCESS AREA EMERGENCY DISTRIBUTION PANEL	UTILITY AREA EMERGENCY DISTRIBUTION PANEL	HVAC PANEL FOR CONTROL ROOM	110VDC CHARGER 2	24VDC CHARGER 2	110VAC UPS 2	110VAC UPS BYPASS

NOTES

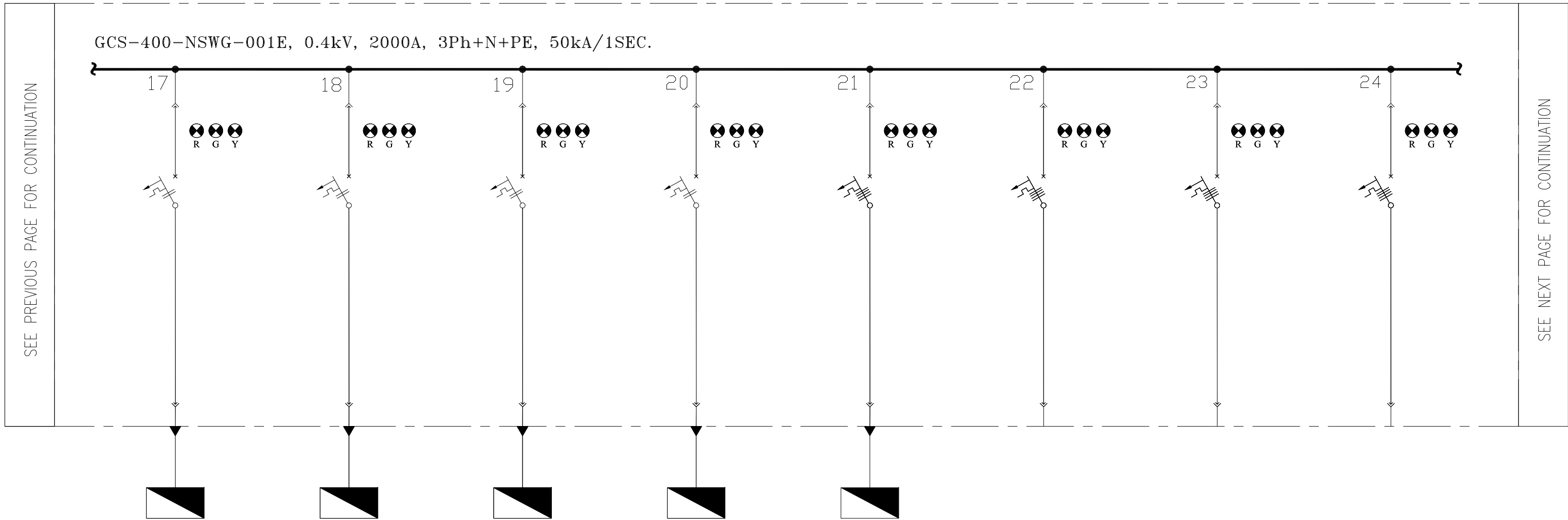
LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
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KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***								
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D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE		
D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.			
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HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			PEDCO											
							DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.			
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM							APPROVED FOR CONSTRUCTION			BY:		DATE:		
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION	
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			15 OF 17	D03	053-073-9184	F	2	P	709035	15 OF 17	D03	



CATEGORY	F7	F7	F7	F7	F1	F1	F1	F1
CODE	GCS-230-FDP 01	GCS-230-FDP 02	SPH-01	SPH-02	GCS-400-EDP-CRM	GCS-400-EDP-CRM	GCS-400-EDP-CCTV	SPARE
POWER (kW)	1KW	1KW	2KW	2KW	23KW	10KW	-	-
C.B TYPE/RATING	16A	16A	16A	16A	50A	50A	50A	16A
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE SIZE	-	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	FIRE DIESEL PANEL 01 (ELECTRICAL MAIN MOTOR)	FIRE DIESEL PANEL 02 (DISEL ENGINE)	SPACE HEATER & LIGHTING FOR NEW LV SWITCHGEAR	SPACE HEATER & LIGHTING FOR NEW MV SWITCHGEAR	CONTROL ROOM EMERGENCY LIGHTING PANEL	CONTROL ROOM EMERGENCY LIGHTING PANEL	CCTV BUILDING EMERGENCY LIGHTING PANEL	SPARE

NOTES

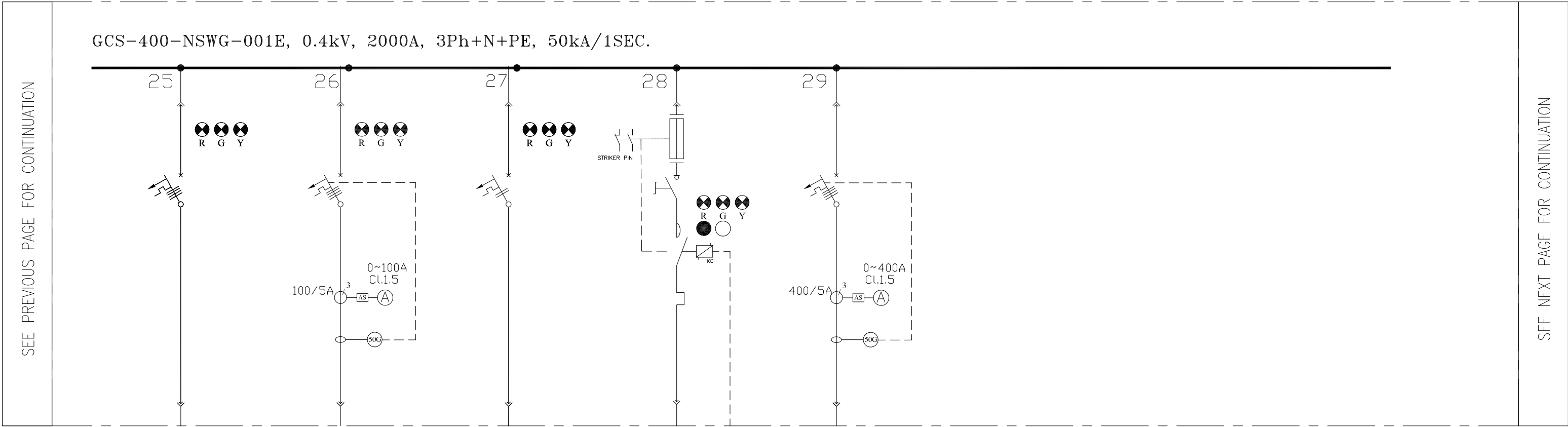
LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
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D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.				
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب ميباشد.								
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 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY												
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SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION		
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			16 OF 17	D03	053-073-9184	F	2	P	709035	16 OF 17	D03		



CATEGORY	F1	F3	F7	M1	F3			
CODE	SPARE	SPARE	SPARE	SPARE	SPARE			
POWER (kW)	-	-	2KW	1.1KW	-			
C.B TYPE/RATING	50A	100A	16A	-	400A			
FUSE TYPE/RATING	N/A	N/A	N/A	αM/6A	N/A			
CONTACTOR RATING (A)	N/A	N/A	N/A	2.2KW <AC3>	N/A			
OVER LOAD SETTING RANGE	N/A	N/A	N/A	2.5 ... 4 A	N/A			
CABLE SIZE	-	-	-	-	-			
DESCRIPTION OF FEEDER	SPARE	SPARE	SPARE	SPARE	SPARE			

NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL	BK-GCS-PEDCO-120-EL-DG-0002

KEY PLAN

D03

D03	AUG.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***								
D02	MAY.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	***	***	*****	
D01	APR.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE		
D00	DEC.2021	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***			CHECKED		REV. APPR.			
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	احمل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملي مناطق نفت خيز جنوب مي باشد.							
PROJECT NAME:									THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C. / FIELDS					
PROJECT NO.:									971020					
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION							
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY				DATE SCALE DRAWING BY CHECKED BY PROJECT ENG.							
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM							APPROVED FOR CONSTRUCTION			BY:		DATE:		
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION	
N.T.S	A2	BK-GCS-PEDCO-120-EL-SL-0002			17 OF 17	D03	053-073-9184	F	2	P	709035	17 OF 17	D03	