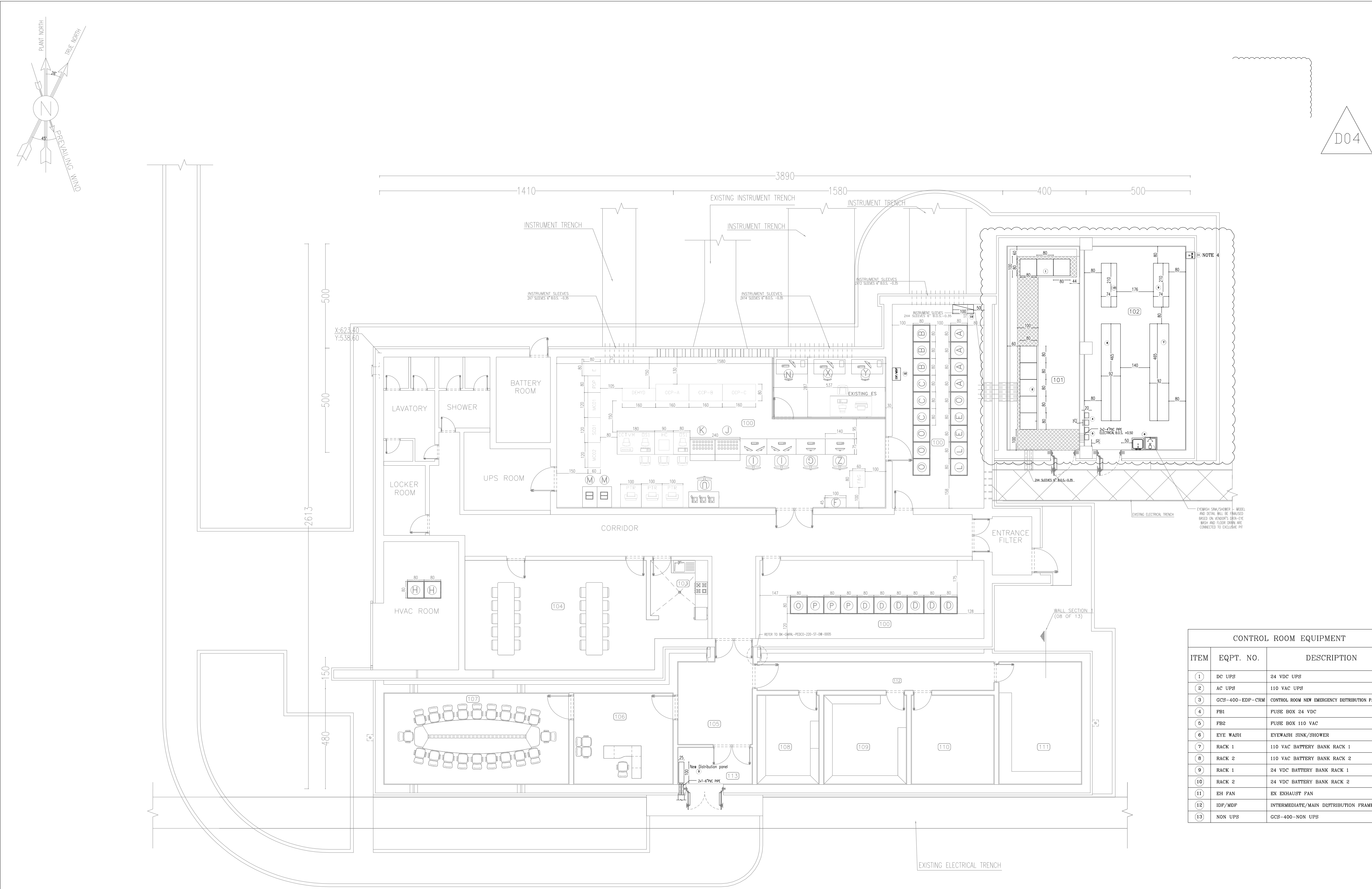


ELECTRICAL EQUIPMENT ARRANGEMENT LAYOUT
FOR BUILDING

D04

D04	OCT.2024	IFA	M.POURDASHIT	M.FAKHARIAN	M.SAMGHANI	** **							
D03	MAR.2024	IFA	H.SHAHBA	M.FAKHARIAN	S.PARMAKZPOUR	** **							
D02	APR.2023	IFA	H.SHAHBA	M.FAKHARIAN	M.MICHERSHAD	** **	***	*****	** **	***,****	** **	***,****	
D01	OCT.2022	IFA	H.SHAHBA	M.FAKHARIAN	M.MICHERSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE	
D00	MAY.2022	IPC	H.SHAHBA	M.FAKHARIAN	M.MICHERSHAD	** **			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. 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 NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION													
PROJECT NO.: 971020			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						
ELECTRICAL EQUIPMENT ARRANGEMENT LAYOUT FOR BUILDING							APPROVED FOR CONSTRUCTION			BY:	DATE:		
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0008			01 OF 05	D04	053-073-9184	F	2	P	709063	01 OF 05	D04



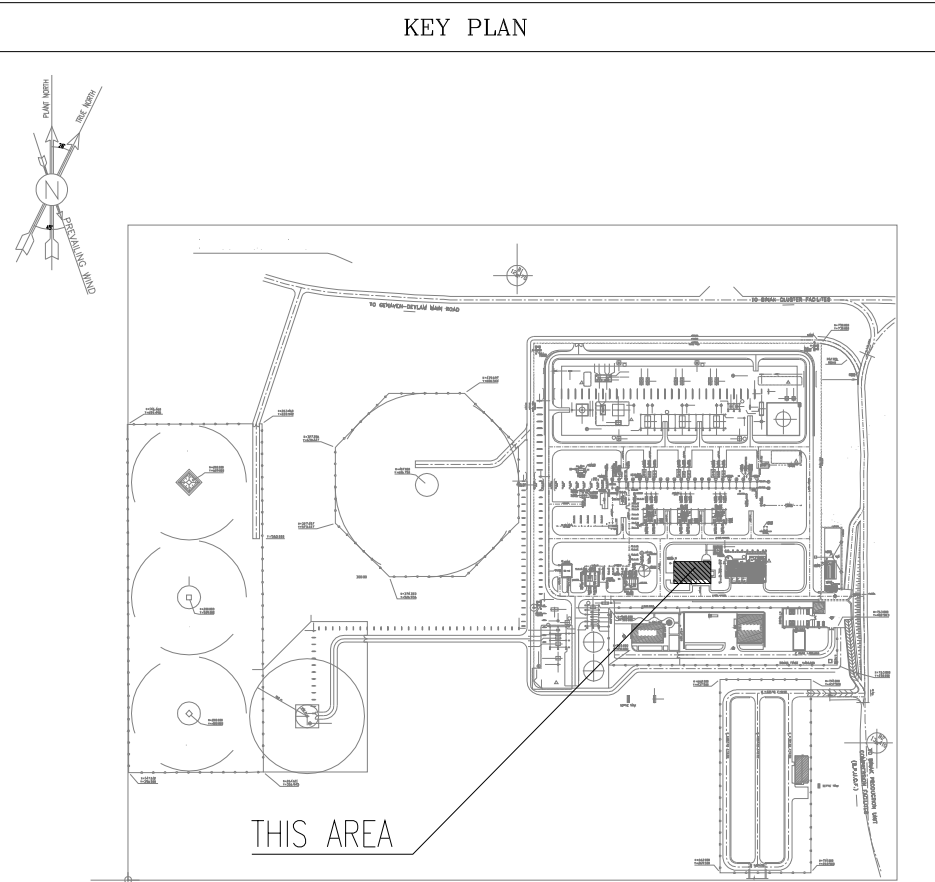
100	CONTROL ROOM
101	UPS
102	BATTERY ROOM
103	PANTRY
104	DINING ROOM
105	ENTRANCE
106	MANAGEMENT ROOM
107	CONFERENCE ROOM
108	ARCHIVE
109	LOCKER
110	PRAYER ROOM
111	STORE
112	CORRIDOR
113	AIR LOCK

EXISTING CONTROL BUILDING

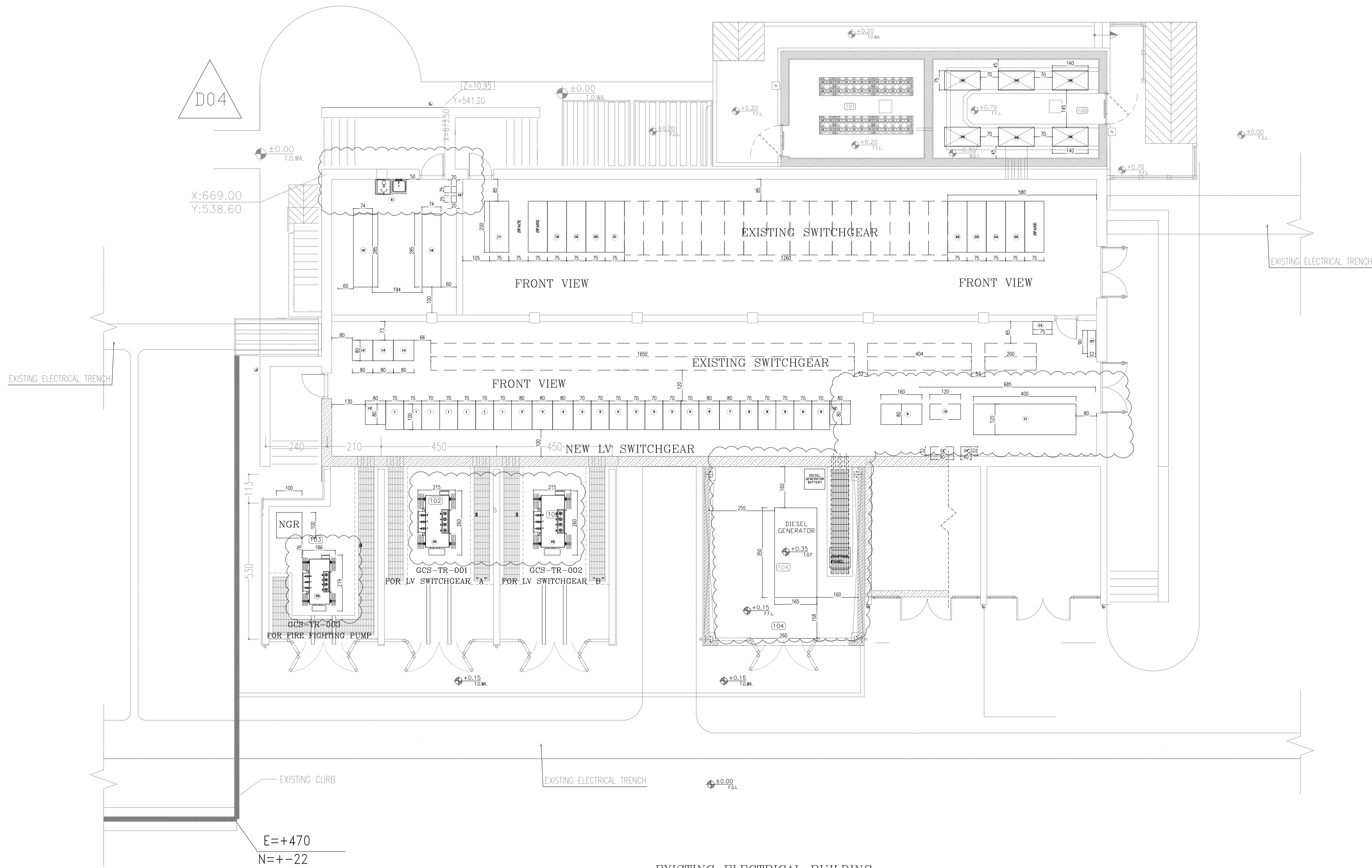
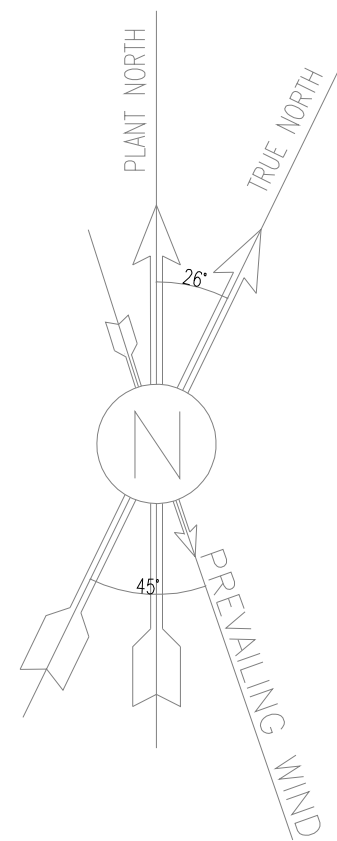
CONTROL ROOM EQUIPMENT		
ITEM	EQPT. NO.	DESCRIPTION
1	DC UPS	24 VDC UPS
2	AC UPS	110 VAC UPS
3	GCS-400-EDP-CRM	CONTROL ROOM NEW EMERGENCY DISTRIBUTION PANEL & HVAC
4	FB1	FUSE BOX 24 VDC
5	FB2	FUSE BOX 110 VAC
6	EYE WASH	EYEWASH SINK/SOWER
7	RACK 1	110 VAC BATTERY BANK RACK 1
8	RACK 2	110 VAC BATTERY BANK RACK 2
9	RACK 1	24 VDC BATTERY BANK RACK 1
10	RACK 2	24 VDC BATTERY BANK RACK 2
11	EH FAN	EX EXHAUST FAN
12	IDP/MDP	INTERMEDIATE/MAIN DISTRIBUTION FRAME
13	NON UPS	GCS-400-NON UPS

D04	OCT.2024	IFA	M.POURDASHT	M.FAKHARIAN	M.SADGHIAN	***
D03	MAR.2024	IFA	H.SHAKIBA	M.FAKHARIAN	S.FARMAKZPOUR	***
D02	APR.2023	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***
D01	OCT.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***
D00	MAY.2022	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
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			
DRAWING TITLE:						
ELECTRICAL EQUIPMENT ARRANGEMENT LAYOUT FOR BUILDING						
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.
AS SHOWN	A1	BK-GCS-PEDCO-120-EL-PY-0008			02 OF 05	D04

NOTES	
1- ALL DIMENSION ARE IN "cm" 2- "DDP" IS AS BELOW: GCS-400-EDP-CRM: CONTROL ROOM EMERGENCY DISTRIBUTION PANEL & HVAC 3- ALL INFORMATION DATA, WEIGHTS AND DIMENSIONS SHOWN IN THE DRAWING SHALL BE VERIFIED AND FINALIZED ACCORDING TO VENDOR DOCUMENTS. 4- EXHAUST FAN LOCATION SHALL BE ACCORDING TO HVAC LAYOUT. THIS IS PRELIMINARY IN THIS DOCUMENT.	
LEGEND	
REFERENCE DRAWING	
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING CONTROL BUILDING	BK-GCS-PEDCO-120-AR-DW-0011
CALCULATION NOTE FOR UPS SYSTEM	BK-GCS-PEDCO-120-EL-CN-0004
CALCULATION NOTE FOR DC CHARGER SYSTEM	BK-GCS-PEDCO-120-EL-CN-0005
CCTV EQUIPMENT LAYOUT INSIDE CCTV CONTROL ROOM IN BINAK GCS	BK-GCS-PEDCO-120-IN-PY-0013
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0001
CABLE TRENCH AND DUCT BANK LAYOUT	BK-GCS-PEDCO-120-CV-PY-0002
AREA ELECTRICAL CABLE ROUTE & SECTION LAYOUT	BK-GCS-PEDCO-120-EL-PY-0005



***	*****	*** **	***.***	*** **	***.***	
REV.	DESCRIPTION	BY	DATE	BY	DATE	
		CHECKED		REV. APPR.		
اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب می باشد.						
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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION						
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.		
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
APPROVED FOR CONSTRUCTION			BY:	DATE:		
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	2	P	709053	02 OF 05	D04



SPACE TAG NUMBER

- 100 CAPACITOR BANK
- 101 CO2 ROOM
- 102 TRANSFORMER ROOM
- 103 FIRE-FIGHTING PUMP TRANSFORMER ROOM
- 104 DIESEL ROOM

SWITCHGEAR ROOM EQUIPMENT		
ITEM	EQPT. NO.	DESCRIPTION
1	OUT 1, OUT 2, OUT 3, OUT 4, OUT 5, OUT 6, OUT 7	OUTGOING FOR NEW LV SWITCHGEAR A
2	INT A	INCOMING FOR NEW LV SWITCHGEAR A
3	COUPLER	COUPLER A&B
4	INT B	INCOMING FOR NEW LV SWITCHGEAR B
5	OUT 8, OUT 9, OUT 10, OUT 11, OUT 12, OUT 13, OUT 14	OUTGOING FOR NEW LV SWITCHGEAR B
6	COUPLER	COUPLER B&C
7	INT C	INCOMING FOR NEW LV SWITCHGEAR C
8	OUT 15, OUT 16, OUT 17, OUT 18, OUT 19	OUTGOING FOR NEW LV SWITCHGEAR C
9	SEP 1	NEW SEP PANEL
10	SEP 2	EXISTING SEP PANEL
11	SEP-200A/B/C	ADAPTOR PANEL FOR GAS COMPRESSOR DIESEL/B/C
12	CPB 1	NEW LV CAPACITOR BANK 0.4 KV
13	SEP 1	NEW REMOTE CONTROL PANEL
14	SEP 2	EXISTING REMOTE CONTROL PANEL
15	DC CHARGER	NEW DC CHARGER PANEL
16	FB	110 VDC BATTERY FUSE BOX
17	BATTERY BANK	110 VDC BATTERY BANK BANK 1 & 2
18	FIRE FIGHTING PANEL	TO FIRE WATER ELECTRIC PUMP 0.3 KV PANEL
19	C-000A NY SWITCHGEAR	FIRST & SECOND STAGE GAS COMPRESSOR A, 11 KV PANEL
20	C-000B NY SWITCHGEAR	FIRST & SECOND STAGE GAS COMPRESSOR B, 11 KV PANEL
21	C-000C NY SWITCHGEAR	FIRST & SECOND STAGE GAS COMPRESSOR C, 11 KV PANEL
22	ADAPTOR	CONNECTION EXISTING NY PANEL TO NEW SWITCHGEAR
23	ADAPTOR	CONNECTION EXISTING NY PANEL TO NEW SWITCHGEAR
24	C-000D NY SWITCHGEAR	TO TRANSFORMER-001 11/42 KV B
25	C-000E NY SWITCHGEAR	FIRST & SECOND STAGE GAS COMPRESSOR B, 11 KV PANEL
26	TRANSFORMER	11 KV TRANSFORMER
27	CPB 2	NEW LV CAPACITOR BANK 0.4 KV
28	C-000-100-100-100-100	SWITCHGEAR DISTRIBUTION PANEL A 10KV
29	DIESEL	DIESEL GENERATOR
30	GEN. PANEL	GEN. GENERATOR PANEL
31	EXT. WASH	EXTENSIVE WASH/SHOWER

NOTES

- 1- ALL DIMENSION ARE IN "cm".
- 2- ALL INFORMATION DATA, WEIGHTS AND DIMENSIONS SHOWN IN THE DRAWING SHALL BE VERIFIED AND FINALIZED ACCORDING TO VENDOR DOCUMENTS.
- 3- IN LV ROOM:
 - OUTGOING NO 01-08 IS ON LV SWITCHGEAR "A".
 - OUTGOING NO 09-12 IS ON LV SWITCHGEAR "B".
 - OUTGOING NO 13-16 IS ON LV SWITCHGEAR "C".
- 4- EXISTING DC CHARGER SHALL BE REPLACED BY NEW DC CHARGER.
- 5- IN NY ROOM EXISTING NY CAPACITOR BANK SHALL BE MOVED TO NEW CAPACITOR ROOM BEHIND NY ROOM.
- 6- SINCE THERE IS NOT ENOUGH SPACE IN EXISTING LV ROOM, THEREFORE NEW LV SWITCHGEAR HAS BEEN CONSIDERED REAR ACCESS.
- 7- ACCORDING TO NOTES, LV SWITCHGEAR ARE REAR ACCESS, THEREFORE OUTGOING IS 0.7M IN LENGTH & INCOMING IS 0.8M. THE DEPTH OF SWITCHGEAR IS 1.2M.
- 8- THERE ARE 3 NORMAL LV PANEL FOR GAS COMPRESSOR NAMED "MCC-2101A", "MCC-2101B" & "MCC-2101C". THEY SHALL BE PLACED IN LV ROOM.
- 9- SINCE OPENING FOR ACCESS TO CABLES EXIST, THEREFORE WHEREVER IS REQUIRED, OPENING SHALL BE EXTENDED.

LEGEND

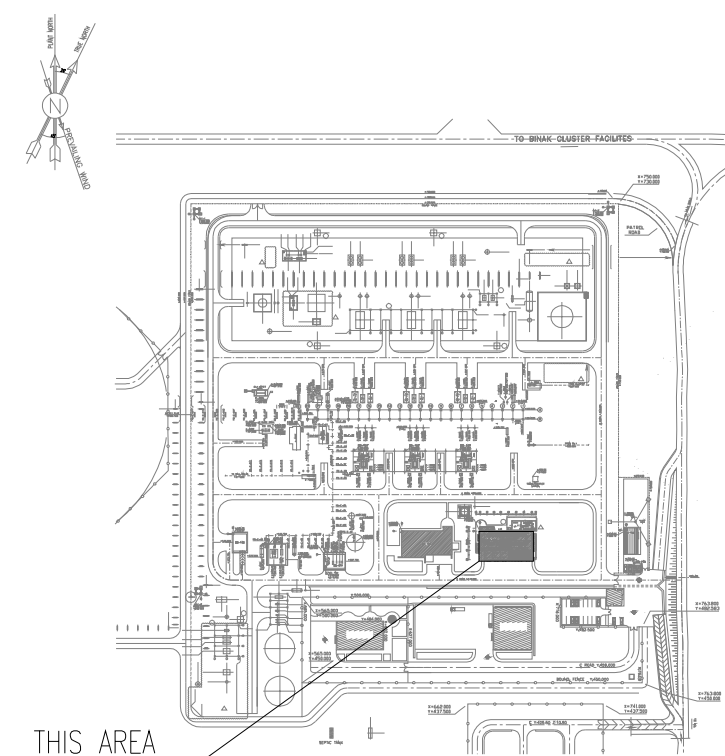
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D04

REFERENCE DRAWING	DRG. No.
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001
CALCULATION NOTE FOR DC CHARGER SYSTEM	BK-GCS-PEDCO-120-EL-CN-0005
CCTV EQUIPMENT LAYOUT INSIDE CCTV CONTROL ROOM IN BINAK GCS	BK-GCS-PEDCO-120-IN-PY-0013
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0001
CABLE TRENCH AND DUCT BANK LAYOUT	BK-GCS-PEDCO-120-CV-PY-0002
AREA ELECTRICAL CABLE ROUTE & SECTION LAYOUT	BK-GCS-PEDCO-120-EL-PY-0005

LV Switchgear/MCC Single Line Diagram BK-GCS-PEDCO-120-EL-SL-0002

KEY PLAN



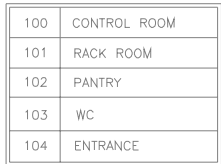
D04	OCT.2024	IFA	M.POURDASHT	M.FAKHARIAN	M.SABGHIAN	***
D03	MAR.2024	IFA	H.SHAKIBA	M.FAKHARIAN	S.FARMAKZPOUR	***
D02	APR.2023	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***
D01	OCT.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***
D00	MAY.2022	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

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	
DRAWING TITLE:					
ELECTRICAL EQUIPMENT ARRANGEMENT LAYOUT FOR BUILDING					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
AS SHOWN	A1	BK-GCS-PEDCO-120-EL-PY-0008		03 OF 05	D04



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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION							
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.			
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
APPROVED FOR CONSTRUCTION			BY:	DATE:			
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION	
053-073-9184	F	2	P	709053	03 OF 05	D04	



SWITCHGEAR ROOM EQUIPMENT		
ITEM	EQPT. NO.	DESCRIPTION
①	GCS-400-EDP-CCTV	CCTV DISTRIBUTION PANEL & HVAC
②	GCS-400-UPS-CCTV	OFFICIAL UPS PANEL

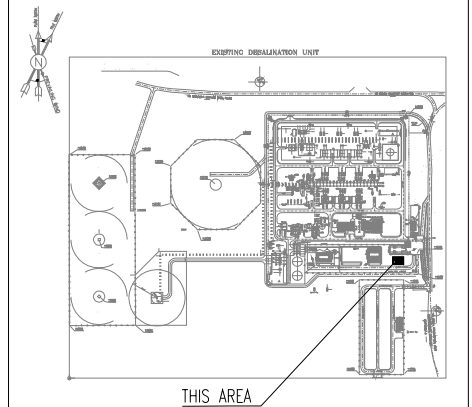


NOTES	
1 - ALL DIMENSION ARE IN "cm".	

[illegible]

REFERENCE DRAWING	DRG. No.
ARCHITECTURAL DRAWING FOR SINGLE CONTROL ROOM- BINAK GCS	BK-GCS-PEDCO-120-AR-DW-0008
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001
SCVP EQUIPMENT LAYOUT INSIDE SCVP CONTROL ROOM IN BINAK GCS	BK-GCS-PEDCO-120-N-PY-Q013
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0001
CABLE TRENCH AND DUCT BANK LAYOUT	BK-GCS-PEDCO-120-CV-PY-0002
AREA ELECTRICAL CABLE ROUTE & SECTION LAYOUT	BK-GCS-PEDCO-120-EL-CV-0005
CALCULATION NOTE FOR DC CHARGER SYSTEM	BK-GCS-PEDCO-120-EL-CN-0005

KEY PLAN



D04	OCT.2024	IFA	M.POURDASHY	M.FAKHARIAN	M.SADEGHIAN	** **
D03	MAR.2024	IFA	H.SHAKIBA	M.FAKHARIAN	E.HAMRANGPOUR	** **
D02	APR.2023	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D01	OCT.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D00	MAY.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
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			
DRAWING TITLE:						
ELECTRICAL EQUIPMENT ARRANGEMENT LAYOUT FOR BUILDING						
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF.
A5 SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0008		04 OF 05	D04	063-073-9184
						LOCATION
						SIZE
						CLASS
						SERIAL NO.
						SHEET
						REVISION



100	STORAGE
101	INSTRUMENT WORKSHOP
102	INSTRUMENT STORAGE
103	TOILET
104	ROOF
105	WALKWAY

	D04	OCT.2024	IFA	M.POURDASTI	M.FAKHARIAN	V.SADIGHIAN	** **
	D03	MAR.2024	IFA	H.SHAKIBA	M.FAKHARIAN	S.BABAMAZDEPOUR	** **
	D02	APR.2023	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHADI	** **
	D01	OCT.2022	IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHADI	** **
	D00	MAY.2022	IFC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHADI	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	

D04	OCT. 2024		IFA	M.POURDASHI	M.FAKHARIAN	N.SAMGHAN
D03	MAR. 2024		IFA	H.SHAKIBA	M.FAKHARIAN	S.PANAMAZPOUR
D02	APR. 2023		IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD
D01	OCT. 2022		IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD
D00	MAY. 2022		IFA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD
REV.	DATE	P.O.I.F		PREP.	CHK.	APP.
						AUT.

PROJECT NAME:	BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
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PROJECT NO.:	971020
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EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):
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 HIRGAN ENERGY	 TE	 PEDCO	PETROIRAN DEVELOPMENT COMPANY
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			

DRAWING TITLE:

ELECTRICAL EQUIPMENT ARRANGEMENT LAYOUT FOR BUILDING				
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
AS SHOWN	A3	BK-GCS-PEDCO-120-EL-PY-0008	06 OF 06	D04

KEY PLAN

THIS AREA

***	*****	00.00	000.0000	00.00	000.0000
REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
اعمال و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.					

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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION				
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION				BY:	DATE:	
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
063-073-9184	F	2	P	709063	06 OF 06	D04