

EARTHING & LIGHTNING LAYOUT FOR BUILDING & SHELTER




NOTES

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

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DOO	OCT.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE	BY	DATE		
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.			CHECKED		REV. APPR.					
PROJECT NAME:							BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION									
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				 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS									
							DATE		SCALE		DRAWING BY		CHECKED BY		PROJECT ENG.	
DRAWING TITLE: EARTHING & LIGHTNING LAYOUT FOR BUILDING & SHELTER							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		
NTS	A1	BK-GCS-PEDCO-120-EL-PY-0002			01 OF 07	D00	053-073-9184	F	2	P	709047		01 OF 07	D00		

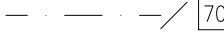

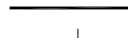

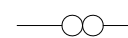





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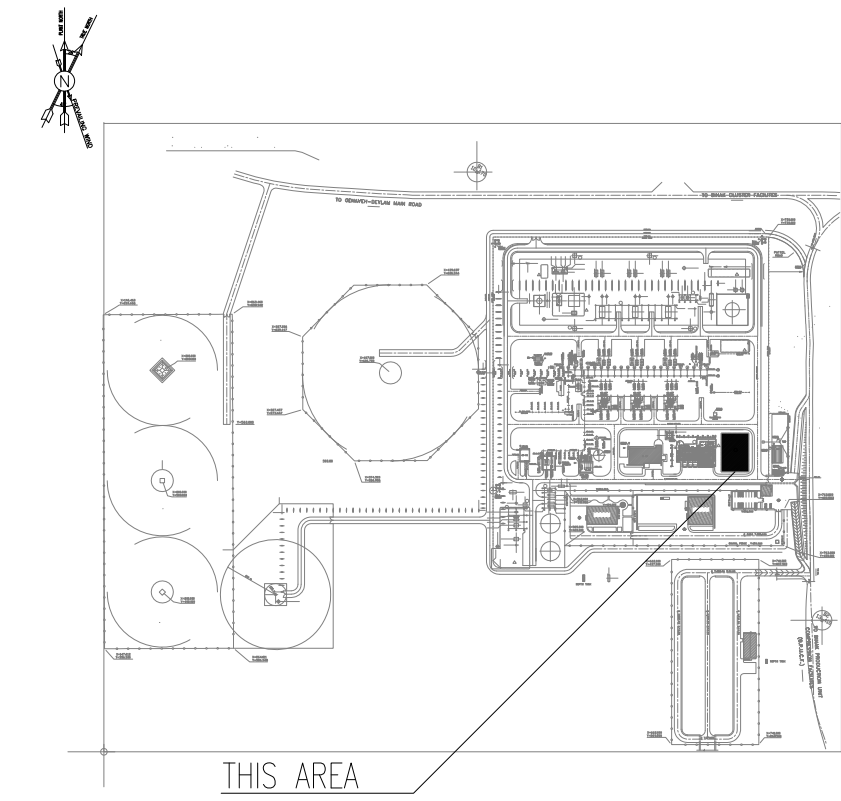
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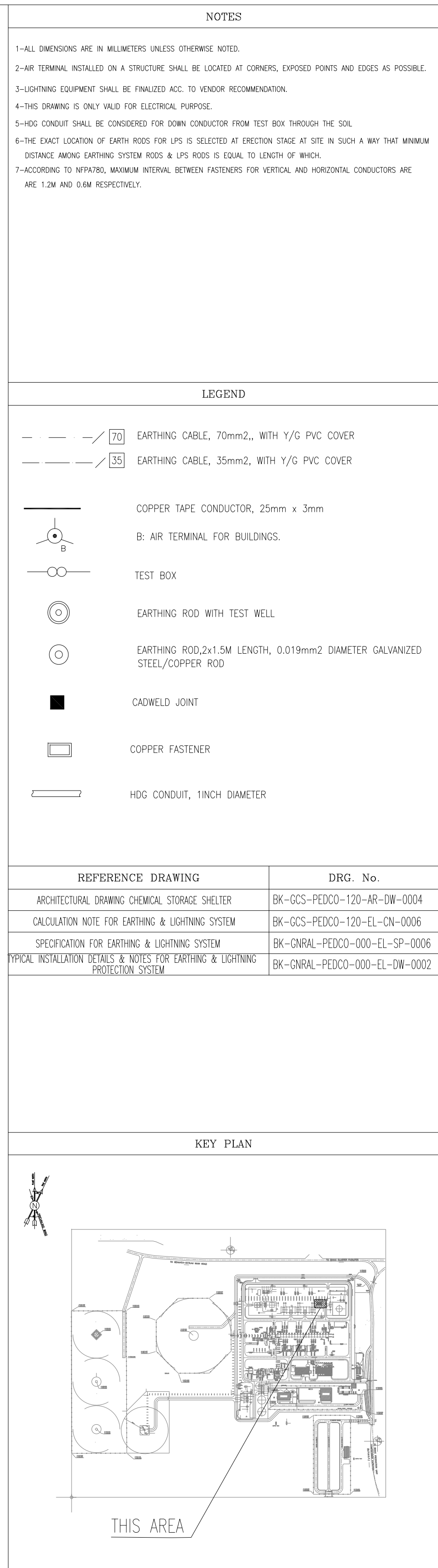
- 1-ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 2-AIR TERMINAL INSTALLED ON A STRUCTURE SHALL BE LOCATED AT CORNERS, EXPOSED POINTS AND EDGES AS POSSIBLE.
- 3-LIGHTNING EQUIPMENT SHALL BE FINALIZED ACC. TO VENDOR RECOMMENDATION.
- 4-THIS DRAWING IS ONLY VALID FOR ELECTRICAL PURPOSE.
- 5-HDG CONDUIT SHALL BE CONSIDERED FOR DOWN CONDUCTOR FROM TEST BOX THROUGH THE SOIL.
- 6-THE EXACT LOCATION OF EARTH RODS FOR UPS IS SELECTED AT ERECTION STAGE AT SITE IN SUCH A WAY THAT MINIMUM DISTANCE AMONG EARTHING SYSTEM RODS & LPS RODS IS EQUAL TO LENGTH OF WHICH.
- 7-ACCORDING TO NFPA780, MAXIMUM INTERVAL BETWEEN FASTENERS FOR VERTICAL AND HORIZONTAL CONDUCTORS ARE 1.2M AND 0.6M RESPECTIVELY.

LEGEND	
	EARTHING CABLE, 70mm², WITH Y/G PVC COVER
	EARTHING CABLE, 35mm², WITH Y/G PVC COVER
	COPPER TAPE CONDUCTOR, 25mm x 3mm
	B: AIR TERMINAL FOR BUILDINGS.
	TEST BOX
	EARTHING ROD WITH TEST WELL
	EARTHING ROD, 2x1.5M LENGTH, 0.019mm² DIAMETER GALVANIZED STEEL/COPPER ROD
	CADWELD JOINT
	COPPER FASTENER
	HDG CONDUIT, 1 INCH DIAMETER

REFERENCE DRAWING	DRG. No.
ARCHITECTURAL DETAIL DRAWING FOR CONTROL BUILDING FLOOR PLAN	BK-GCS-PEDCO-120-AR-DW-0001
CALCULATION NOTE FOR EARTHING & LIGHTNING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0006
SPECIFICATION FOR EARTHING & LIGHTNING SYSTEM	BK-GNRL-PEDCO-000-EL-SW-0006
TYPICAL INSTALLATION DETAILS & NOTES FOR EARTHING & LIGHTNING PROTECTION SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0002

KEY PLAN

[illegible]

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NOTES

- 1--ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- 2--AIR TERMINAL INSTALLED ON THE STRUCTURE SHALL BE LOCATED AT CORNERS, EXPOSED POINTS AND EDGES AS POSSIBLE.
- 3--LIGHTNING EQUIPMENT SHALL BE FURNISHED ACC. TO VENDOR RECOMMENDATION.
- 4--THIS DRAWING IS ONLY VALID FOR ELECTRICAL PURPOSE.
- 5--HDC CONDUIT SHALL BE CONSIDERED FOR DOWN CONDUCTOR FROM TEST BOX THROUGH THE SOIL.
- 6--THE EXACT LOCATION OF EARTH RODS FOR LPS IS SELECTED AT ERECTION STAGE AT SITE IN SUCH A WAY THAT MINIMUM DISTANCE AMONG EARTHING SYSTEM RODS & LPS RODS IS EQUAL TO LENGTH OF WHICH.
- 7--ACCORDING TO NP7870, MAXIMUM INTERVAL BETWEEN FASTENERS FOR VERTICAL AND HORIZONTAL CONDUCTORS ARE 1.2M AND 0.6M RESPECTIVELY.

LEGEND	
	EARTHING CABLE, 70mm2,, WITH Y/G PVC COVER
	EARTHING CABLE, 35mm2, WITH Y/G PVC COVER
	COPPER TAPE CONDUCTOR, 25mm x 3mm
	B: AIR TERMINAL FOR BUILDINGS.
	TEST BOX
	EARTHING ROD WITH TEST WELL
	EARTHING ROD,2x1.5M LENGTH, 0.019mm2 DIAMETER GALVANIZED STEEL/COPPER ROD
	CADWELD JOINT
	COPPER FASTENER
	HDG CONDUIT, 1INCH DIAMETER

REFERENCE DRAWING	DRG. No.
ARCHITECTURAL DRAWING FOR UTILITY SHELTER	BK-GCS-PEDCO-120-AR-DW-0005
CALCULATION NOTE FOR EARTHING & LIGHTNING SYSTEM	BK-GCS-PEDCO-120-EL-CN-0006
SPECIFICATION FOR EARTHING & LIGHTNING SYSTEM	BK-GNRL-PEDCO-000-EL-SP-0006
TYPICAL INSTALLATION DETAILS & NOTES FOR EARTHING & LIGHTNING PROTECTION SYSTEM	BK-GNRL-PEDCO-000-EL-DW-0002

KEY PLAN

EXISTING BUILDING

NEW BUILDING

NEW BRIDGE

NEW TOWER

THIS AREA

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