

PAGA EQUIPMENT LAYOUT FOR AREA



NOTES

LEGEND

REFERENCE DRAWING	DRG. No.

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	CHECKED	REV.	APPR.
DO2	SEP.2022	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **	*****	** **	*** **	** **	*** **	*** **
DO1	MAY.2022	IPA	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **						
DO0	APR.2022	IPC	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	** **						

اصل و کلیه نسخ این نقشه و حق آفتابش متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.
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EPC CONTRACTOR:  HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	EPD/EPC CONTRACTOR (GC):  PETROIRAN DEVELOPMENT COMPANY	PROJECT NO.: 971020 EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY
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DRAWING TITLE: PAGA EQUIPMENT LAYOUT FOR AREA		NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
(VENDOR TITLE BLOCK)**		APPROVED FOR CONSTRUCTION			BY:		DATE:				
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
1:100	A0	BK-GCS-PEDCO-120-TE-PY-0006	1 OF 3	DO2	053-073-9184	F	2	T	709092	1 OF 3	DO2

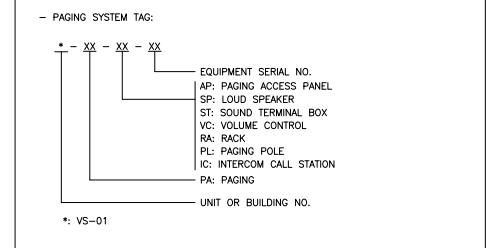


- NOTES**
- 1- ALL ELEVATIONS AND COORDINATES ARE IN METER UNLESS OTHERWISE NOTED. DIMENSIONS ARE IN MILLIMETER.
 - 2- ALL COORDINATES ARE IN METERS WITH REFERENCE TO SITE LOCAL DATUM POINT.
 - 3- HATCHED AREAS ARE OUT OF SCOPE OF THIS PROJECT.
 - 4- COORDINATE (UTM COORDINATES OF SITE).
 - 5- EXACT LOCATION AND NUMBER OF TELEPHONE EQUIPMENTS SHALL BE FINALIZED IN AT SITE.
 - 6- TYPE AND SIZE OF TELEPHONE CABLE:
 - OUT OF BUILDING: 2 Pair 0.6 mm-Armoured-CU/PVC/SWA
 - IN THE BUILDING: 2 Pair 0.6 mm-CU/PVC
 - 7- MOUNTING LEVEL OF TELEPHONE HANDSETS SHALL BE 1500mm ABOVE F.F.L.
 - 8- ALL CABLES FOR TELEPHONE HANDSETS SHALL BE 5P-0.6mm.
 - 9- UNDERGROUND TELEPHONE CABLES SHALL BE RUN IN INSTRUMENT CABLE ROUTE.
 - 10- ALL CABLING FOR SURFACE MOUNTED TELEPHONE SHALL BE DONE VIA HOT DIP GALVANIZED STEEL OPEN CONDUIT SUPPORTED EVERY 1000 mm AND AT BOTH ENDS WITH SUITABLE CLAMP.
 - 11- FLASH BEACON OF TELEPHONE SHALL BE FED FROM NEAREST UPS AT PDP AT AREA OR MAIN CONTROL BUILDING.
 - 12- THE LOCATION OF MAIN TELEPHONE SYSTEM IS IN COMMUNICATION BUILDING.
 - 13- THE TELEPHONE AND HOTLINE SET WILL BE CONNECTED TO MDF OF CONTROL BUILDING AND THEN ROUTED TO MAIN PBX AT TELECOM BUILDING VIA MULTIPAIR TELEPHONE CABLE.
 - 14- THE LOCATION OF MAIN PAGA SYSTEM IS IN THE NEW CONTROL BUILDING.
 - 15- IN THE NOISE OVER THAN 80 db, THE LOUDSPEAKER WILL BE EQUIPPED WITH FLASH BEACON THE BEACON WILL BE FED FROM POWER SUPPLY AT CCR.

LEGEND

	PAGING CABINET, FREE STANDING, 2100x800x800 mm
	PA/GA ACCESS PANEL DESKTOP TYPE
	INTERCOM CALL STATION WITH ACOUSTIC HOOD
	FLASH LIGHT *) YELLOW COLOR
	HORN TYPE LOUDSPEAKER, 110 db OUTPUT SOUND PRESSURE LEVEL, 30 W, IP65, DUST PROOF, WALL MOUNTED, WITH MATCHING TRANSFORMER
	SOUND TERMINAL BOX, SURFACE MOUNTED TYPE, ALUMINUM DIE CAST, IP65
	PAGING POLE 4m

REFERENCE DRAWING	DRG. No.
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0001
HAZARDOUS AREA CLASSIFICATION LAYOUT	BK-GCS-PEDCO-120-SA-PY-0002
BLOCK DIAGRAM FOR PAGA	BK-GCS-PEDCO-120-TE-BD-0005
DATA SHEETS FOR PAGA	BK-GCS-PEDCO-120-TE-DT-0003



TAG NO.	BUILDING LIST
①	GAS COMPRESSOR SHELTER
②	CHEMICAL INJECTION PACKAGES & STORAGE SHELTER
③	FIRE WATER PUMP HOUSE
④	UTILITY SHELTER
⑤	CONTROL BUILDING AND CCTV CONTROL ROOM
⑥	FIRE SHED
⑦	EXTENSION OF EXISTING ELECTRICAL BUILDING

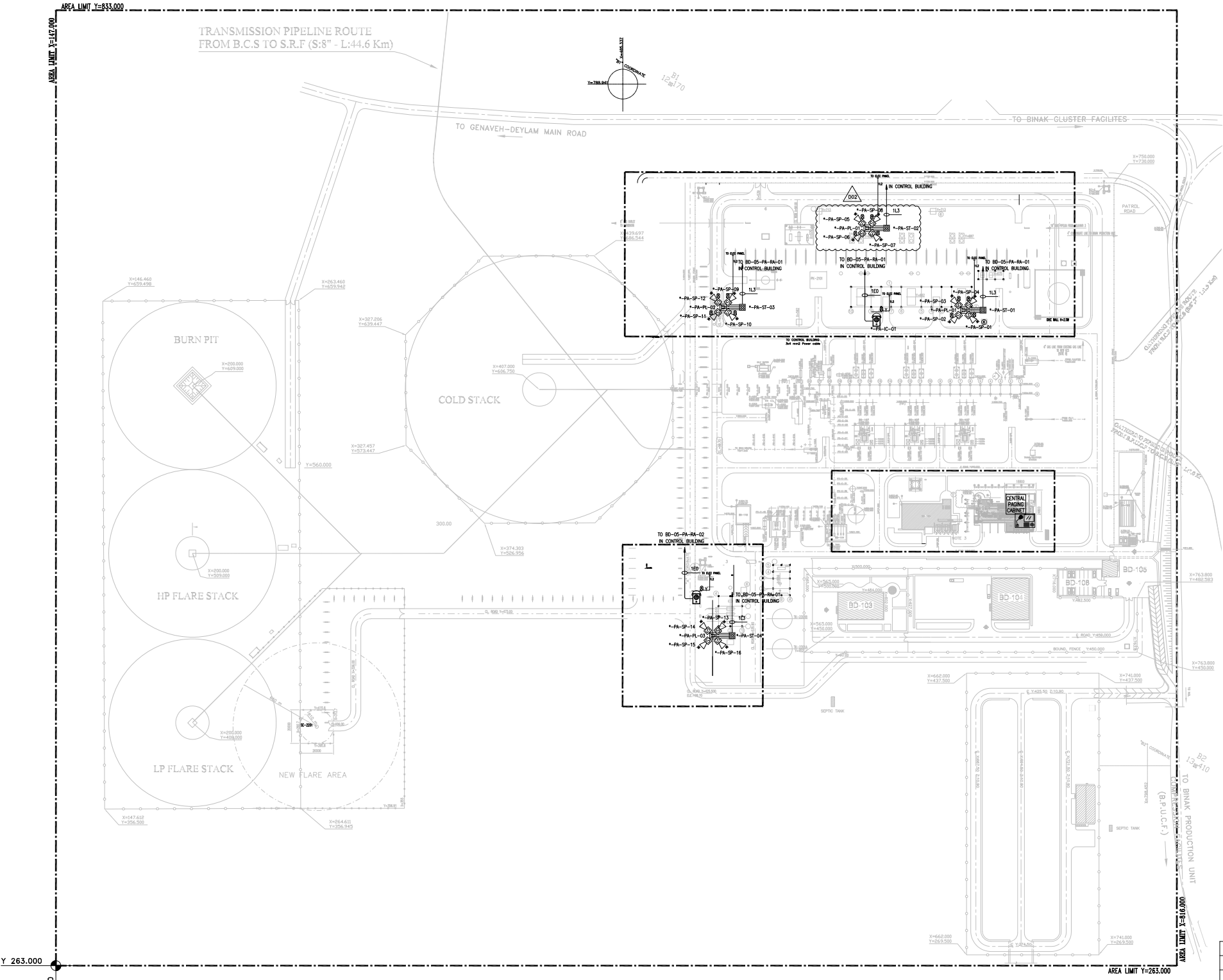
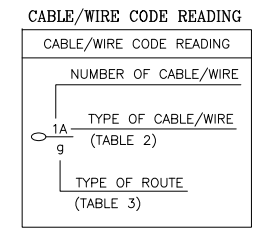


TABLE 1

TAG NO.	DESCRIPTION	QTY	UNIT
①	HORN TYPE LOUDSPEAKER, 110 db OUTPUT SOUND PRESSURE LEVEL, 30 W, IP65, DUST PROOF, WALL MOUNTED, WITH MATCHING TRANSFORMER	12	SET
②	SOUND TERMINAL BOX, SURFACE MOUNTED TYPE, ALUMINUM DIE CAST, IP65	3	SET
③	CABLE, NYSLCY, 2x2.5 mm ²	200	M
④	CABLE, NYSLCY, 2x4 mm ²	**	M
⑤	EXPLOSION PROOF INTERCOM CALL STATION WITH ACOUSTIC HOOD	1	SET

** WILL BE FINALIZED AFTER CABLE ROUTE DESIGN.

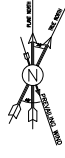
TABLE 2

TAG NO.	CABLE/WIRE CODE
A	NY-Y-J, 3x2.5mm ²
L2	NYSLCY, 3x2.5mm ² , TWISTED, PAIR, FLAME RETARDANT
L3	NYSLCY, 3x4mm ² , TWISTED, PAIR, FLAME RETARDANT
EO	A2Y(S)2Y, 4x2x0.6mm

TABLE 3

TAG NO.	ROUTE CODE
c	H.D.G. STEEL CONDUIT 1"
e	H.D.G. STEEL CONDUIT 2"
i	PVC PIPE PG21
m	PVC PIPE PG42

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DO0	APR.2022	IPC	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	**	**	*****	**	*****	**	*****
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	REV.	DESCRIPTION	CHECKED	BY	DATE	BY DATE
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION PROJECT NO.: 971020 EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES EPD/EPC CONTRACTOR (GC): PEDCO PETROIRAN DEVELOPMENT COMPANY DRAWING TITLE: PAGA EQUIPMENT LAYOUT FOR AREA NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED APPROVED FOR CONSTRUCTION: [Signature] BY: [Signature] DATE: [Date] SCALE: 1:100 SIZE: A0 DRAWING NO.: BK-GCS-PEDCO-120-TE-PY-0006 SHEET NO.: 2 OF 3 REV.: D02 BUDGET REF.: 053-073-9184 LOCATION: F SIZE: 2 CLASS: T SERIAL NO.: 709082 SHEET: 2 OF 3 REVISION: D02												



D02

For shown Area coverage of loud speakers shall be as follows:

Noise = 70dB
 SPL of 25 W/1m = 121 dB
 Required S/N = 10 dB
 Peak factor = 8 dB
 $121dB - 20 \log D = 70dB + 8 dB + 10dB$
 $D = 44 \text{ m}$ D: max. Distance from loudspeaker

For shown GAS compressor Area coverage of loud speakers shall be as follows:

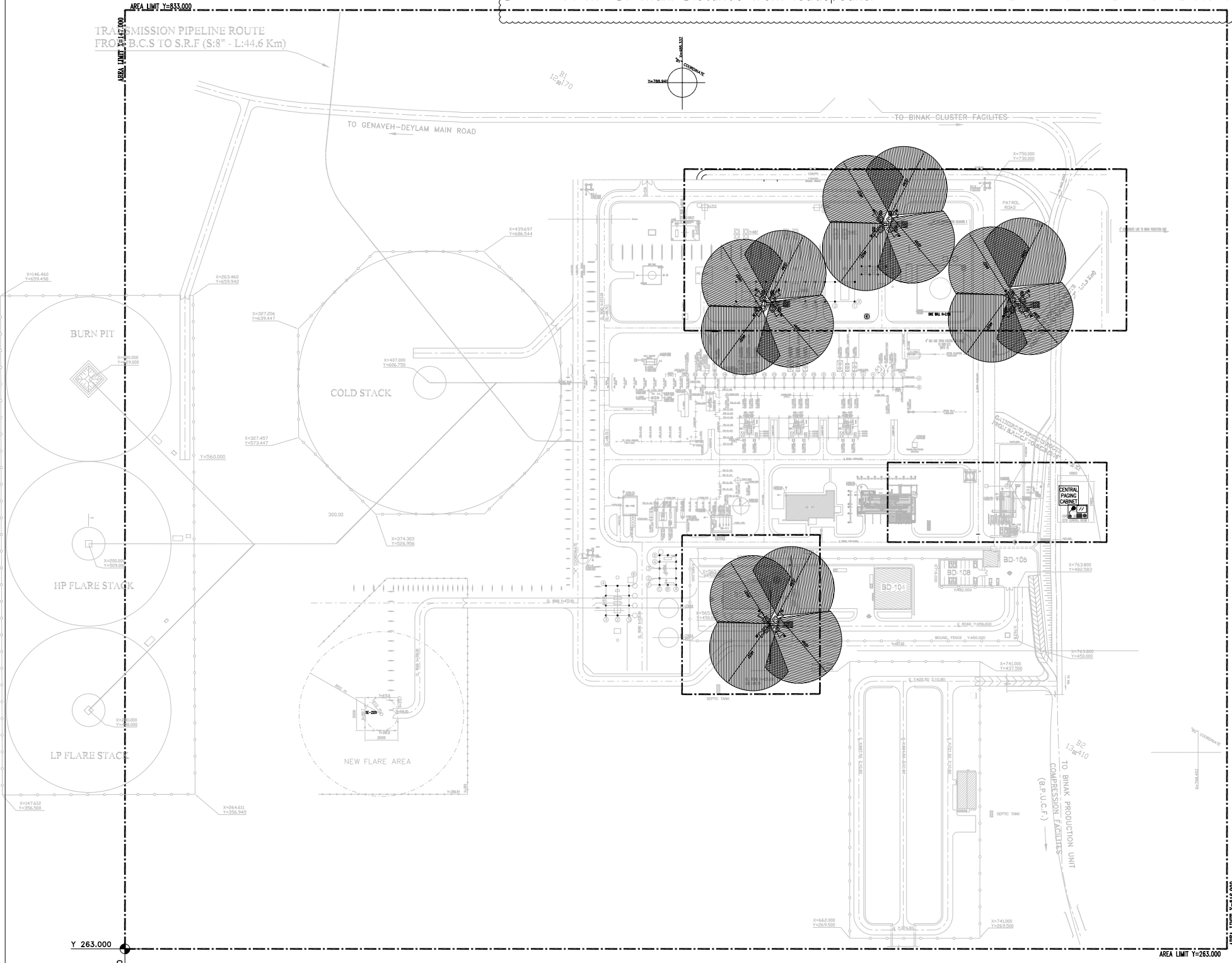
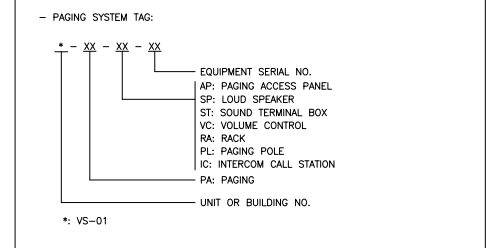
Noise = 85dB
 SPL of 25 W/1m = 121 dB
 Required S/N = 10 dB
 Peak factor = 8 dB
 $121dB - 20 \log D = 85dB + 8 dB + 10dB$
 $D = 9 \text{ m}$ D: max. Distance from loudspeaker

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⑦	EXTENSION OF EXISTING ELECTRICAL BUILDING

- LEGEND**
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 - PA/GA ACCESS PANEL: PA/GA ACCESS PANEL DESKTOP TYPE
 - INTERCOM CALL STATION: INTERCOM CALL STATION WITH ACOUSTIC HOOD
 - FLASH LIGHT: FLASH LIGHT
 *) YELLOW COLOR
 - HORN TYPE LOUDSPEAKER: HORN TYPE LOUDSPEAKER, 110 db OUTPUT SOUND PRESSURE LEVEL, 30 W, IP65, DUST PROOF, WALL MOUNTED, WITH MATCHING TRANSFORMER
 - SOUND TERMINAL BOX: SOUND TERMINAL BOX, SURFACE MOUNTED TYPE, ALUMINUM DIE CAST, IP65
 - PAGING POLE: PAGING POLE 4m

REFERENCE DRAWING	DRG. No.
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0001
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D02	SEP.2022	IPA	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	**					
D01	MAY.2022	IPA	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	**					
D00	APR.2022	IPC	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	**					

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION
 PROJECT NO.: 971020
 EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES
 EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY
 DRAWING TITLE: PAGA EQUIPMENT LAYOUT FOR AREA
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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
1:100	A0	BK-GCS-PEDCO-120-TE-PY-0006	3 OF 3	D02	053-073-9184	F	2	T	709082	3 OF 3	D02