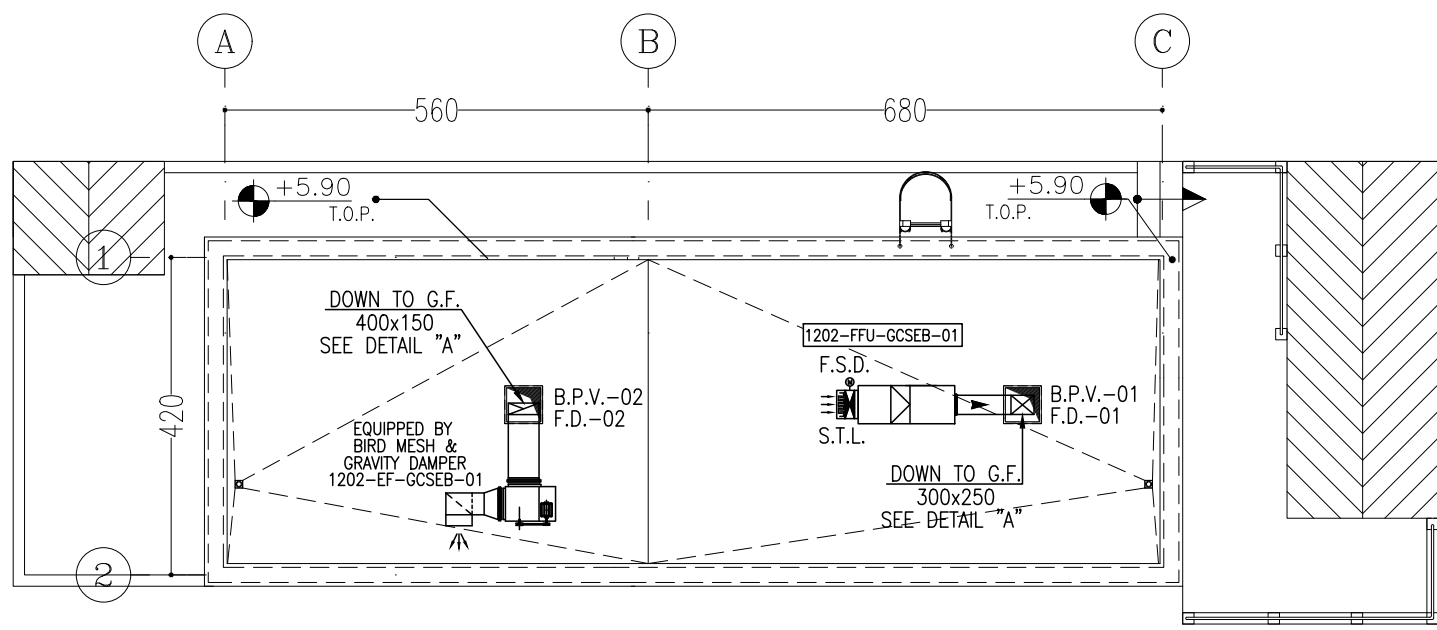
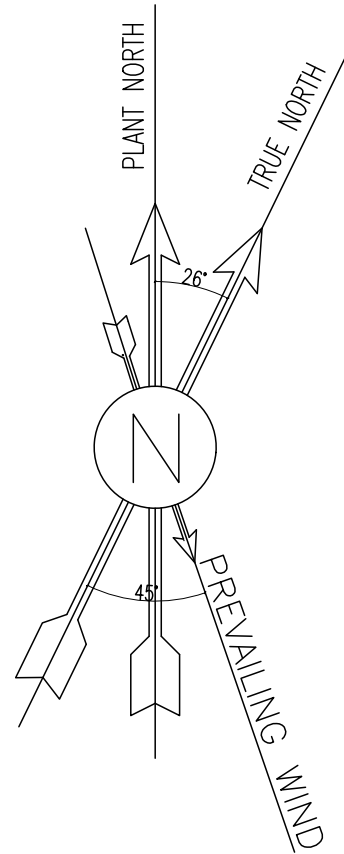
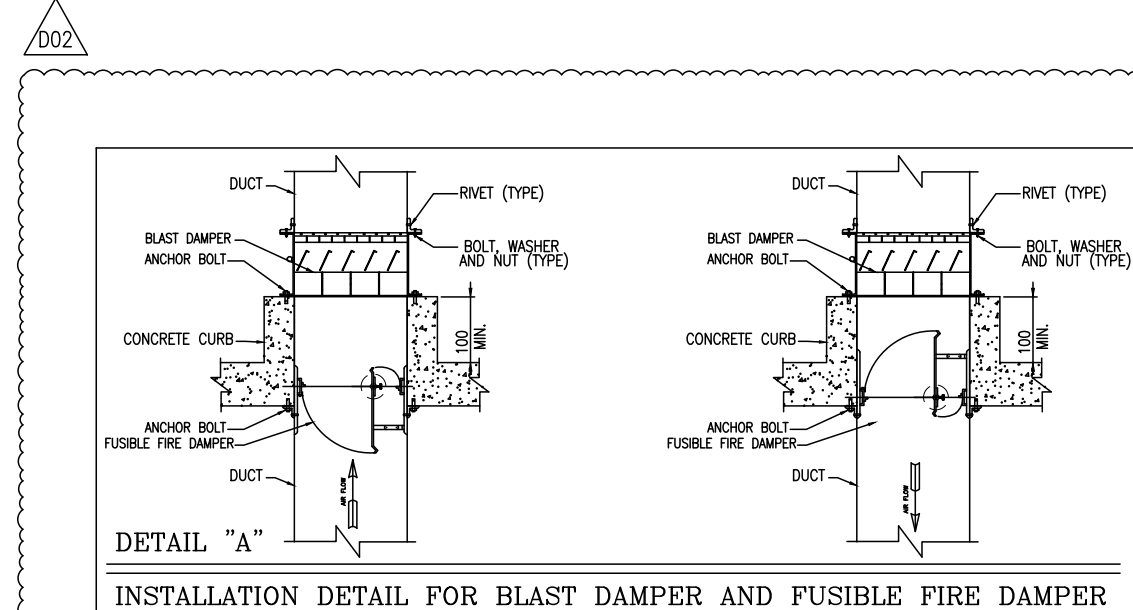
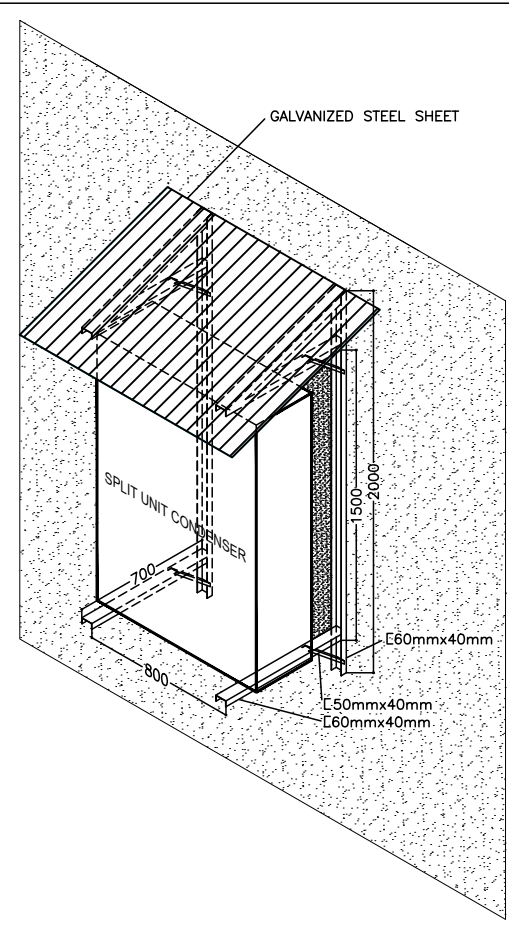




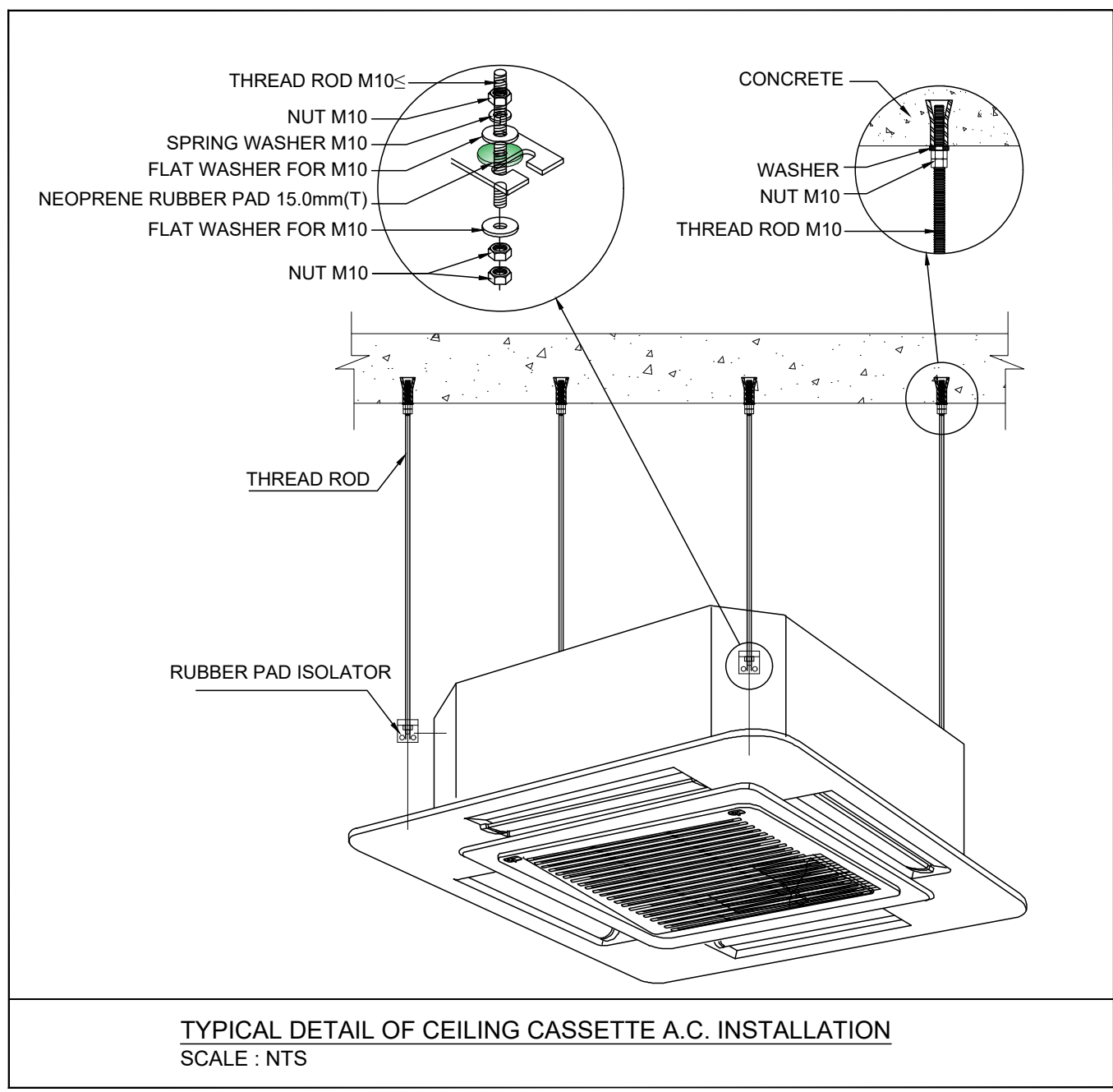
CAPACITOR BANK AND CO2 ROOM PLAN
ROOF PLAN
SC.1:100



DETAIL "A"
INSTALLATION DETAIL FOR BLAST DAMPER AND FUSIBLE FIRE DAMPER



INSTALLATION DETAIL FOR SPLIT UNIT CONDENSER AWNING
NOTE: ALL DIMENSION ARE IN MILLIMETER.
ALL DIMENSION SHOULD BE CHECK VENDOR.



TYPICAL DETAIL OF CEILING CASSETTE A.C. INSTALLATION
SCALE : NTS

DX-SPLIT AIR CONDITIONER UNITS

EQUIPMENT NO.	QTY.	TYPE	REQUIRED COOLING CAP SENSIBLE/LATENT (BTU/HR)	REQUIRED HEATING CAP. (BTU/HR)	ACTUAL/NOMINAL CAP SENSIBLE/LATENT (BTU/HR)	ELECTRIC POWER SUPPLY (V/PH/Hz)	POWER CONSUMPTION (KW)	SERVICE AREA	REMARK
1202-SU-GCSEB-01/A,B 1202-SU-GCSEB-01/A,B	1 DUTY/ 1 STANDBY	WALL MOUNTED T3	25632/3347	2258	BY VENDOR	230/1/50	BY VENDOR	CAPACITOR BANK	INDOOR AND OUTDOOR UNIT WITH THERMOSTAT AND ALL STANDARD ACCESSORY COOLING AND HEATING (HEAT PUMP)
1202-SU-GCSEB-02/A,B,C,D 1202-SU-GCSEB-02/A,B,C,D	2 DUTY/ 2 STANDBY	CEILING MOUNTED CASSETTE SPLIT UNIT / T3	30,955/0	1736	BY VENDOR	230/1/50	BY VENDOR	HIGH VOLTAGE ROOM	INDOOR AND OUTDOOR UNIT WITH THERMOSTAT AND ALL STANDARD ACCESSORY COOLING AND HEATING (HEAT PUMP)
1202-SU-GCSEB-03/A,B,C,D 1202-SU-GCSEB-03/A,B,C,D	2 DUTY/ 2 STANDBY	CEILING MOUNTED CASSETTE SPLIT UNIT / T3	52256/0	1601	BY VENDOR	230/1/50	BY VENDOR	LOW VOLTAGE ROOM	INDOOR AND OUTDOOR UNIT WITH THERMOSTAT AND ALL STANDARD ACCESSORY COOLING AND HEATING (HEAT PUMP)

FAN FILTER UNIT

EQUIPMENT NO.	TYPE	FLOW (L/S)	TOTAL EXTERNAL PRESSURE DROP* (PA)	SERVICE AREA	QTY.	REMARK
1202-FFU-GCSEB-01	OUTDOOR, HORIZONTAL	181.3	166.47	CAPACITOR BANK & CO2 ROOM	1	EQUIPPED WITH BIRD MESH, SAND TARP LOUVER, V-TYPE ALUMINUM FILTER AND BAG FILTER (95% EFFICIENCY).

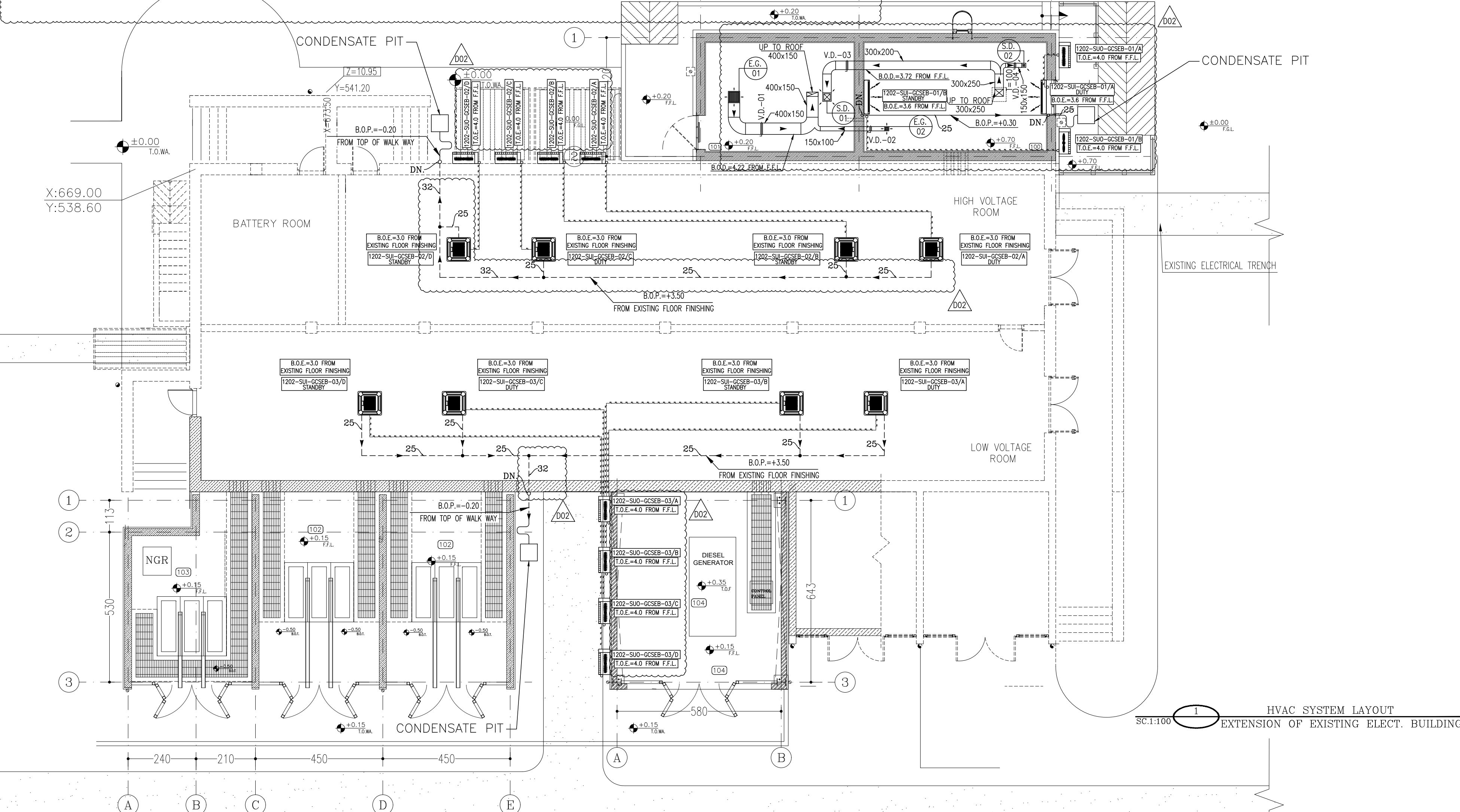
*Total Pressure Drop Include Louver and etc. Should Be Specified By Vendor.

EXHAUST FAN

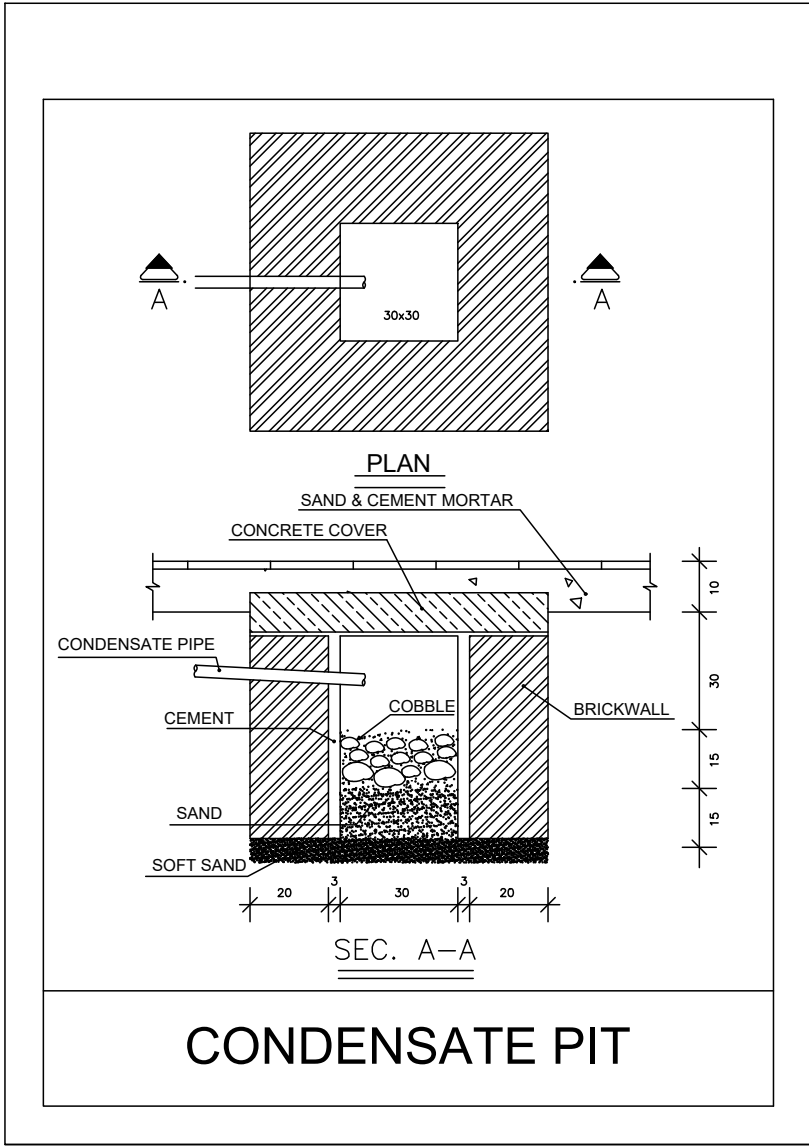
EQUIPMENT NO.	TYPE	FLOW (L/S)	TOTAL EXTERNAL PRESSURE DROP* (PA)	SERVICE AREA	QTY.	REMARK
1202-EF-GCSEB-01	UTILITY(CENTRIFUGAL)	181.3	189.12	CAPACITOR BANK & CO2 ROOM	1	EQUIPPED WITH BIRD MESH AND GRAVITY DAMPER

*Total Pressure Drop Include Louver and etc. Should Be Specified By Vendor.

AIR DIFFUSER AND GRILL SCHEDULE						
TAG NUMBER	LOCATION	TYPE	SIZE (mm)	QTY.	FLOW (L/S)	REMARK
S.D.-01	CO2 ROOM (1201)	SQUARE SUPPLY AIR DIFFUSER CEILING/OUT MOUNTED TYPE	300	300	1	153
S.D.-02	CAPACITOR BANK (1202)	SQUARE SUPPLY AIR DIFFUSER CEILING/OUT MOUNTED TYPE	150	150	1	28
E.G.-01	CO2 ROOM (1201)	SQUARE EXHAUST AIR GRILL CEILING MOUNTED TYPE	400	400	1	153
E.G.-02	CAPACITOR BANK (1202)	SQUARE EXHAUST AIR GRILL CEILING MOUNTED TYPE	150	150	1	28



HVAC SYSTEM LAYOUT
SC.1:100



CONDENSATE PIT

SPACE TAG NUMBER

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

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	BY	DATE
D02	NOV.2024	IFA	KAHMADI	M.PAKHARIAN	M.SADDEGHIAN	**	*****	**	*****	**	*****
D01	APR.2024	IPC	KAHMADI	M.PAKHARIAN	S.PARAMARZPOUR	**	*****	**	*****	**	*****
D00	JUN.2022	IPC	HADINHI	M.PAKHARIAN	M.MEHRSHAD	**	*****	**	*****	**	*****
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	DESCRIPTION	BY	DATE	BY	DATE
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:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
HVAC SYSTEM LAYOUT & SECTION FOR EXTENSION OF EXISTING ELECT. BUILDING							APPROVED FOR CONSTRUCTION				
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
AS SHOWN	A1	BK-GCS-PEDCO-120-HV-PY-0006		1 OF 1	D02	053-073-9184	F	4	B	708877	1 OF 1 D02

NOTES

- ALL DIMENSIONS ARE IN MILLIMETER & ALL ELEVATIONS ARE IN METER UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COMPARE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, PIPING AND STRUCTURAL DRAWINGS AND IN CASE OF ANY CONFLICTS OR DISCREPANCY, INFORM THE ENGINEER.
- ALL MATERIALS ARE SELECTED FROM THE HIGHEST QUALITY AND MUST BE APPROVED BY THE CLIENT.
- ALL OPENINGS SHALL BE CONSIDERED AS PER RELATED DRAWINGS BEFORE CONSTRUCTION.
- ALL REFRIGERANT PIPE, FITTING AND INSULATION SHALL BE ACCORDING TO NIBC #14.
- PIPE SUPPORT DETAIL DRAWING SHALL BE ACCORDING TO STANDARD DRAWING FOR HVAC & PLUMBING.
- MATERIAL OF CONDENSATE PIPES SHALL BE POLYPROPYLENE (PP) ACCORDING TO ASTM F2389 OR ISIRI 6314-1.2.
- REFRIGERATION PIPING, FITTING, INSULATION SIZES AND DETAILS WILL BE SPECIFIED BY VENDOR.

LEGEND

- EXHAUST FAN
- FAN FILTER UNIT
- INDOOR UNIT CASSETTE TYPE SPLIT AIR CONDITIONER
- INDOOR UNIT WALL TYPE SPLIT AIR CONDITIONER
- OUTDOOR UNIT SPLIT AIR CONDITIONER
- SUPPLY AIR DIFFUSER
- EXHAUST AIR GRILL
- REFRIGERANT PIPE LINE AND CONNECTING WIRE
- CONDENSATE PIPE
- B.O. ... BOTTOM OF ...

REFERENCE DOCUMENTS	DRG. No.
HVAC & PLUMBING DESIGN CRITERIA	BK-GNRL-PEDCO-000-HV-DC-0001
SPECIFICATION FOR HVAC EQUIPMENT	BK-GNRL-PEDCO-000-HV-SP-0001
SPECIFICATION FOR DUCT WORK & PIPE WORK	BK-GNRL-PEDCO-000-HV-SP-0002
STANDARD DRAWING FOR HVAC & PLUMBING	BK-GNRL-PEDCO-000-HV-DW-0001
SYMBOL & LEGEND FOR HVAC & PLUMBING	BK-GNRL-PEDCO-000-HV-DW-0002
HVAC CALCULATION NOTE FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-HV-CN-0002
DATA SHEETS FOR MAIN HVAC EQUIPMENT OF EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-HV-DT-0002
HVAC FLOW DIAGRAM FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-HV-DG-0003
ARCHITECTURAL DETAIL DRAWING FOR EXTENSION OF EXISTING ELECT. BUILDING	BK-GCS-PEDCO-120-AR-DW-0002
UNIT PLOT PLAN DRAWING	BK-GCS-PEDCO-120-PI-PY-0001

KEY PLAN

