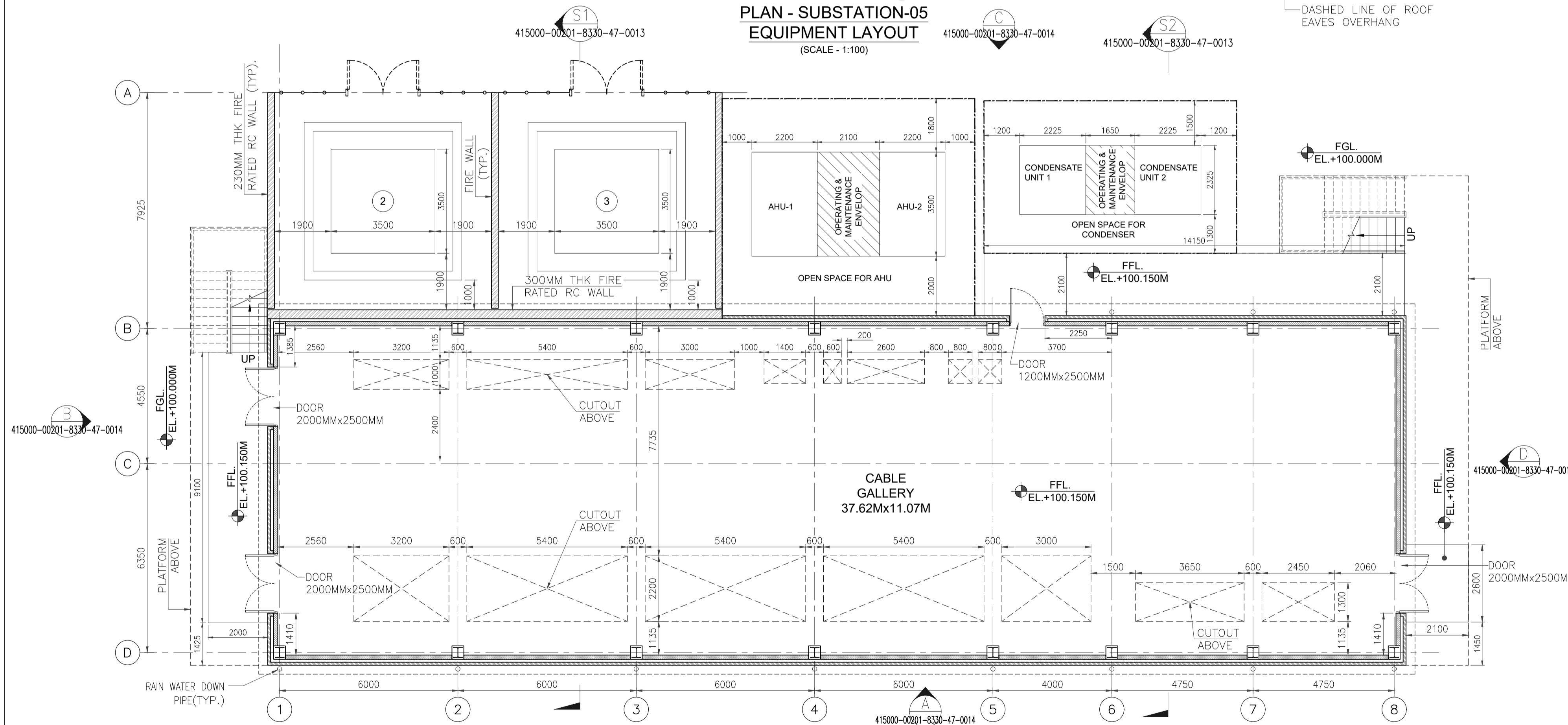


**PLAN - SUBSTATION-05
EQUIPMENT LAYOUT**
(SCALE - 1:100)



**PLAN - SUBSTATION-05
CABLE GALLERY**
(SCALE - 1:100)

ELECTRICAL EQUIPMENT LIST			
SR NO	EQUIPMENT TAG	DESCRIPTION	DIMENSIONS (mm) L x W x H
1	05-SW4-01	6.6 kV SWITCHGEAR	23500 x 2200 x 2350
2	05-TR5-01A	6.6 / 0.42 kV, 2.5 MVA, DISTRIBUTION TRANSFORMER	3500 x 3500 x 3500
3	05-TR5-01B	6.6 / 0.42 kV, 2.5 MVA, DISTRIBUTION TRANSFORMER	3500 x 3500 x 3500
4	05-SW5-01	400V SWITCHGEAR	11200 x 1000 x 2300
5	TBD	SMALL POWER DISTRIBUTION BOARD	950 x 400 x 1500
6	TBD	SUB LIGHTING DISTRIBUTION BOARD	950 x 400 x 1500
7	TBD	SPACE RESERVED FOR MISCELLANEOUS ELECTRICAL EQUIPMENTS	3000 x 1000
8	TBD	FIBRE OPTIC PATCH PANEL-1	1000 x 800 x 2000
9	TBD	FIBRE OPTIC PATCH PANEL-2	1000 x 800 x 2000
10	TBD	VESDA CABINET-1	-
11	TBD	ANNUNCIATOR PANEL	1500 x 400 x 1000
12	TBD	INTERPOSING RELAY PANEL	1500 x 400 x 2000
13	TBD	VESDA CABINET-2	-
14	TBD	SPACE RESERVED FOR CIRCUIT BREAKER HOLDING TRUCKS	1000 x 1000
15	TBD	SPACE RESERVED FOR CIRCUIT BREAKER HOLDING TRUCKS	2000 x 2000
16	TBD	VESDA CABINET-3	-
17	05-BD5-01A	400 V BUSDUCT	-
18	05-BD5-01B	400 V BUSDUCT	-
19	TBD	INTERPOSING RELAY PANEL	1500 x 400 x 2000
20	TBD	SUB AC UPS DB	800 x 600 x 800
21	TBD	SUB DC UPS DB	800 x 600 x 800
22	05-HV5-01	HVAC POWER DISTRIBUTION BOARD	3000 x 800 x 2300
23	TBD	FILLING CABINET (DRAWING STORAGE)	-
24	TBD	STORAGE RACKS FOR PPE	-
25	05-VS4-01	VFD FOR MVR COMPRESSOR (70-2-B-2003)	6700 x 1300 x 2815
26	05-DB5-01	POWER DISTRIBUTION BOARD	2600 x 800 x 2300
27	05-LB5-01	MAIN LIGHTING DISTRIBUTION BOARD	2600 x 800 x 2300
28	TBD	FIBRE OPTIC PATCH PANEL-3	1000 x 800 x 2000
29	TBD	FIBRE OPTIC PATCH PANEL-4	1000 x 800 x 2000
30	TBD	VESDA CABINET-4	-
31	05-UP6-01	A.C. UPS (110V AC, 8 HOURS BACKUP)	2250 x 750 x 2100
32	05-CH6-01	D.C. UPS (110V DC, 2 HOURS BACKUP)	2250 x 750 x 2100
33	05-BA6-01	A.C. UPS BATTERY BANK (110V AC, 8 HOURS BACKUP)	3000 x 650 x 1500
34	05-BA6-02	D.C. UPS BATTERY BANK (110V DC, 2 HOURS BACKUP)	3000 x 650 x 1500
35	TBD	BATTERY CIRCUIT BREAKER	-
36	TBD	BATTERY CIRCUIT BREAKER	-
37	TBD	TELECOM CABINET-1	800 x 800 x 2100
38	TBD	TELECOM CABINET-2	800 x 800 x 2100
39	05-DB5-01	MAIN AC UPS DISTRIBUTION BOARD	2600 x 800 x 2300
40	05-DD5-01	MAIN DC UPS DISTRIBUTION BOARD	2600 x 800 x 2300
41	TBD	HEAT TRACING DISTRIBUTION BOARD	950 x 400 x 1500

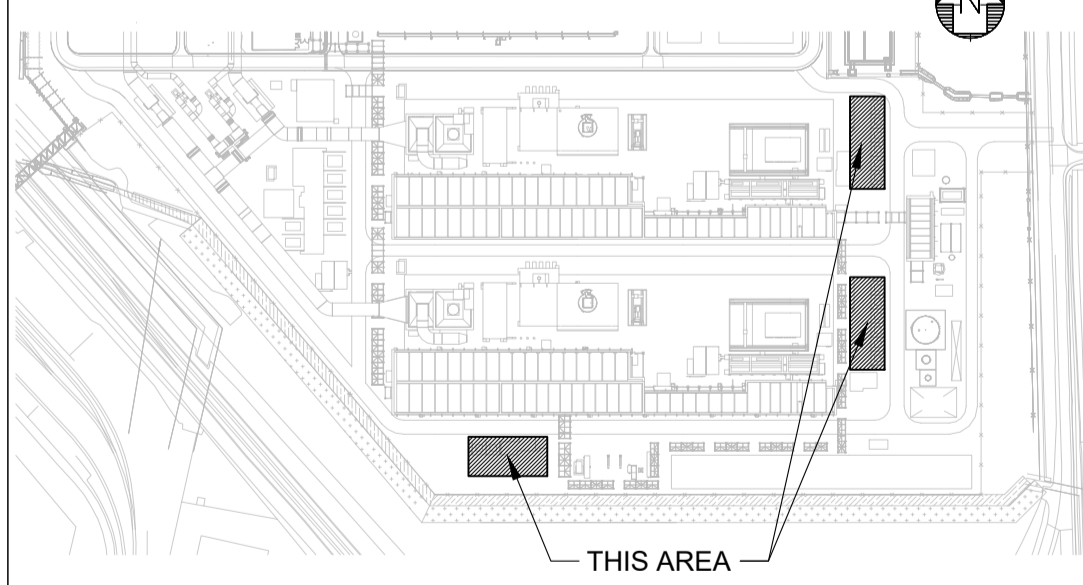
- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS IN METRES UNLESS NOTED OTHERWISE.
 - EL +100.000 CORRESPONDS TO FINISH GROUND LEVEL AT RESPECTIVE PLOT PLAN DRAWING NUMBER 415000-00201-8230-01-0002.
 - FOR BUILDING LOCATION AND SITE DATUM REFER TO SITE PLAN DRAWING NUMBER 415000-00201-8230-01-0002.
 - HANDRAIL SHALL BE HOT DP GALVANIZED (UNO).
 - WALL PENETRATIONS SHALL BE BASED ON ELECTRICAL / INSTRUMENTS / HVAC AND F&S LAYOUT.
 - ALL STRUCTURAL ARRANGEMENTS SHOWN IN THIS DRAWING ARE INDICATIVE, CONTRACTOR SHALL ENSURE DESIGN AND CONSTRUCTION OF BUILDING IN ACCORDANCE WITH STRUCTURAL DRAWINGS.
 - DOOR MANUFACTURER SHALL BE RESPONSIBLE FOR ALL DOORS AND FRAMES, INCLUDING BUT NOT LIMITED TO IRONMONGERY, FIXING TRACK GUIDES AND SEALANTS.
 - REFER ELECTRICAL EQUIPMENT DRAWINGS NO. 415000-00201-8530-79-0002.
 - ARCHITECTURAL DETAILS & ELEVATIONS SHOWN FOR SUBSTATION 05 ONLY.
 - ARCHITECTURAL DETAILS ARE SIMILAR FOR SUBSTATION 06 (30-BD-0703) & SUBSTATION 07(30-BD-0704) AS PER THEIR RESPECTIVE EQUIPMENT LAYOUTS.

- LEGEND:**
- FRONT OF SWITCHGEAR/ EQUIPMENT
 - FENCE LINE
 - BUS-DUCT BETWEEN TRANSFORMER AND SWITCHBOARD (TYP)
 - EQUIPMENT IDENTIFYING NUMBER
 - SPACE/ FUTURE
 - DISTRIBUTION BOARD
 - 2Hrs. FIRE RATED RC WALL
 - CAVITY WALL
 - 200THK BLOCK WALL
 - UNLESS NOTED OTHERWISE.
 - CENTER LINE

HOLD LIST

-

KEY PLAN



SCALE 1:100 (AT A1)

REV	DATE	REVISION DESCRIPTION	DRAWN	DRAFT CHK	DESIGNED	ENG CHK	APPROVED	REF DRAWING No	REFERENCE DRAWING TITLE
0	16/02/23	ISSUED FOR DESIGN	RAWK	NAKA	JOSA	SB	PBA	415000-00201-8340-48-0012	HVAC GENERAL ARRANGEMENT, SUBSTATION 05, 06 & 07
								415000-00201-8530-79-0004	EQUIPMENT LAYOUT SUBSTATION - 07
								415000-00201-8530-79-0003	EQUIPMENT LAYOUT SUBSTATION - 06
B	08/02/23	ISSUED FOR REVIEW	RAWK	NAKA	JOSA	SB	PBA	415000-00201-8530-79-0002	EQUIPMENT LAYOUT SUBSTATION - 05
A	30/12/22	ISSUED FOR IDC	RAWK	NAKA	JOSA	SB	PBA	415000-00201-8330-47-0014	SUBSTATION 05 (30-BD-0702), ELEVATION - A, B, C & D
								415000-00201-8330-47-0013	SUBSTATION 05 (30-BD-0702) ROOF LEVEL PLAN & SECTION - S1, S2

A1 SHEET SCALE 1:100

ENGINEERING AND PERMIT STAMPS (As Required)

CUSTOMER

WORLEY PROJECT No
415000-00201

"This drawing is prepared solely for the use of the contractual customer of Worley and Worley assumes no liability to any other party for any representations contained in this drawing."

DRG TITLE

**HZ VPI-I PCC PROJECT
SUBSTATION 05 (30-BD-0702),
EQUIPMENT LAYOUT & CABLE GALLERY PLAN**

DRG No
415000-00201-8330-47-0012

REV
0

C:\USERS\KRISHNAJI\RAVOLI\WORLEY\NUMBER ZERO VPI-IMMINGHAM POST - COMBUSTION CARBON CAPTURE PROJECT FEED - DOCUMENTS\10 ENG\07 CIVIL\15 DWGS\FROM GD\01 ARCH DRAWINGS\01 WORKING\05 SUBSTATION\SUBSTATION-05 VPI_16022023\415000-00201-8330-47-0012-A1.dwg
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 SAVE DATE & TIME: 15/2/2023 6:06:50 PM
 Worley_A1