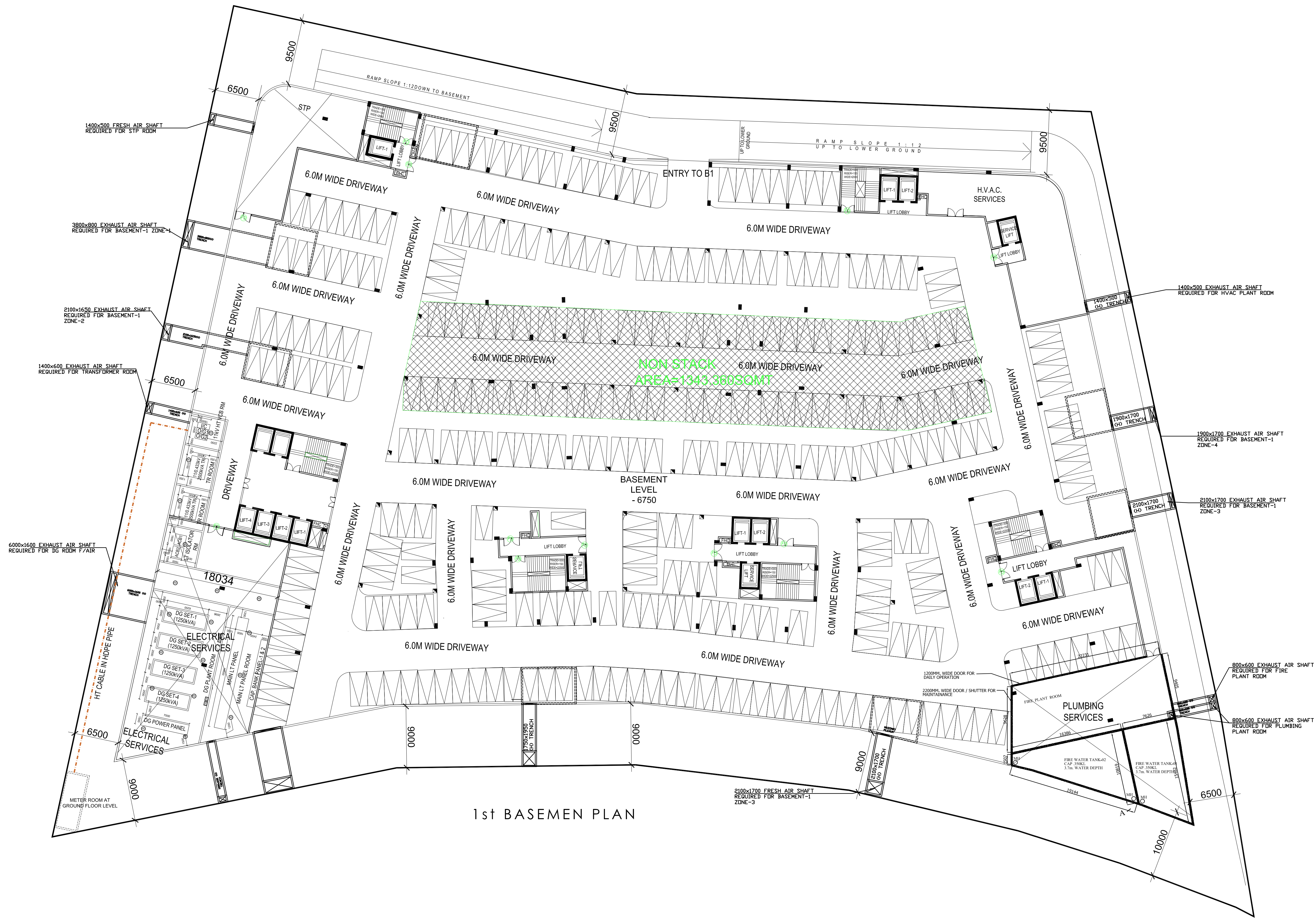
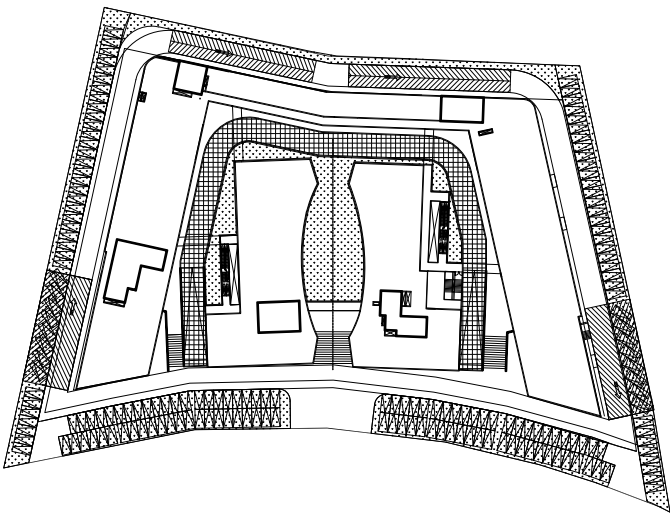




1st BASEMEN PLAN

SUBMISSION

OWNER:-
M/S STARCITY BUILDERS & PROMOTERS LLP

PROJECT:
RETAIL & COMMERCIAL PROJECT AT PLOT NO. C1 & C2, TS-06, SECTOR 22D, YAMUNA EXPRESSWAY, YEIDA CITY,

DRAWING TITLE :

BASEMENT ELECTRICAL PLAN

OWNER'S SIGN ARCHITECT'S SIGN

ARCHITECT :

ACPL

ACPL Design Ltd

www.acplnra.com

ISO 9001: 2008

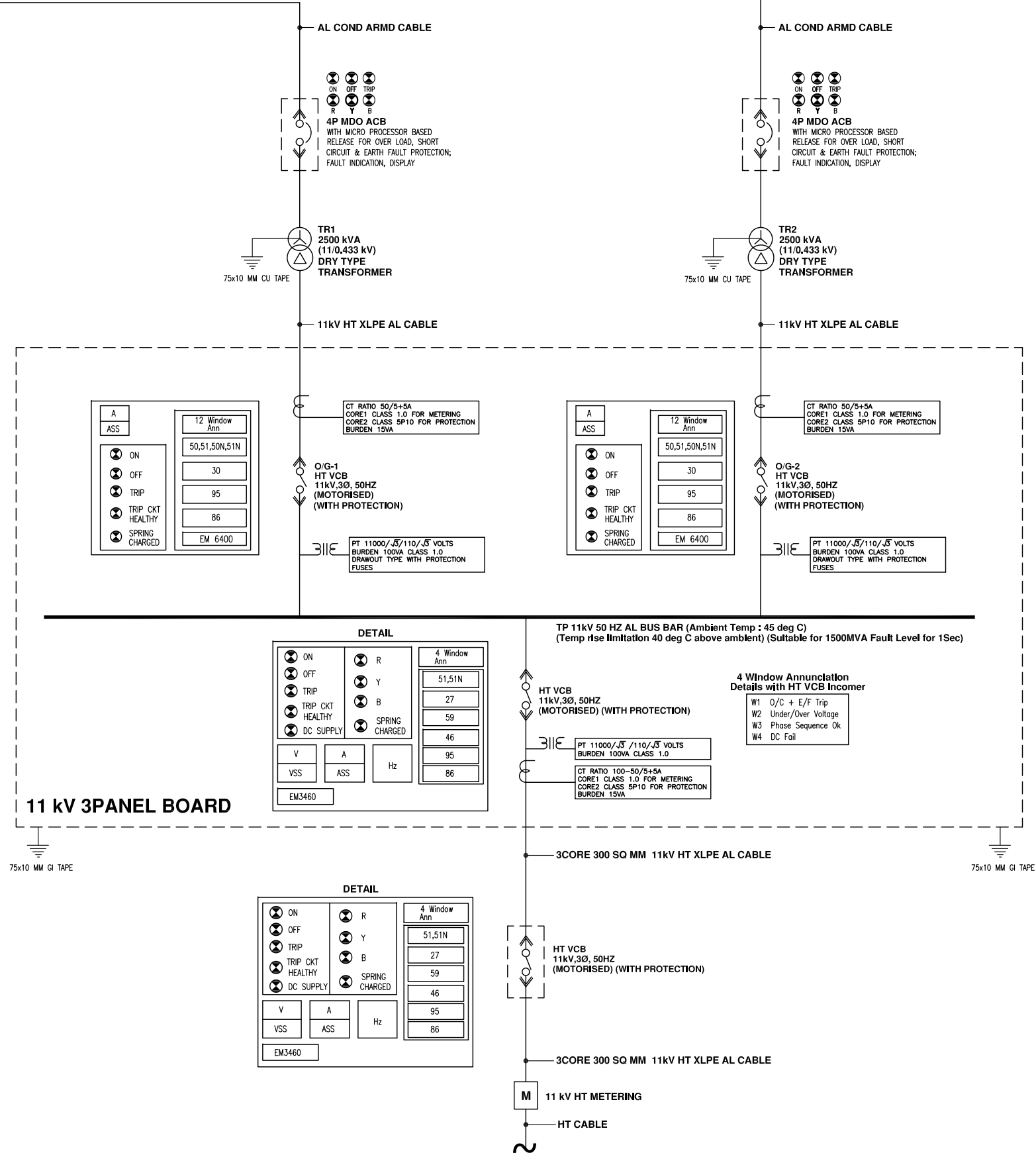
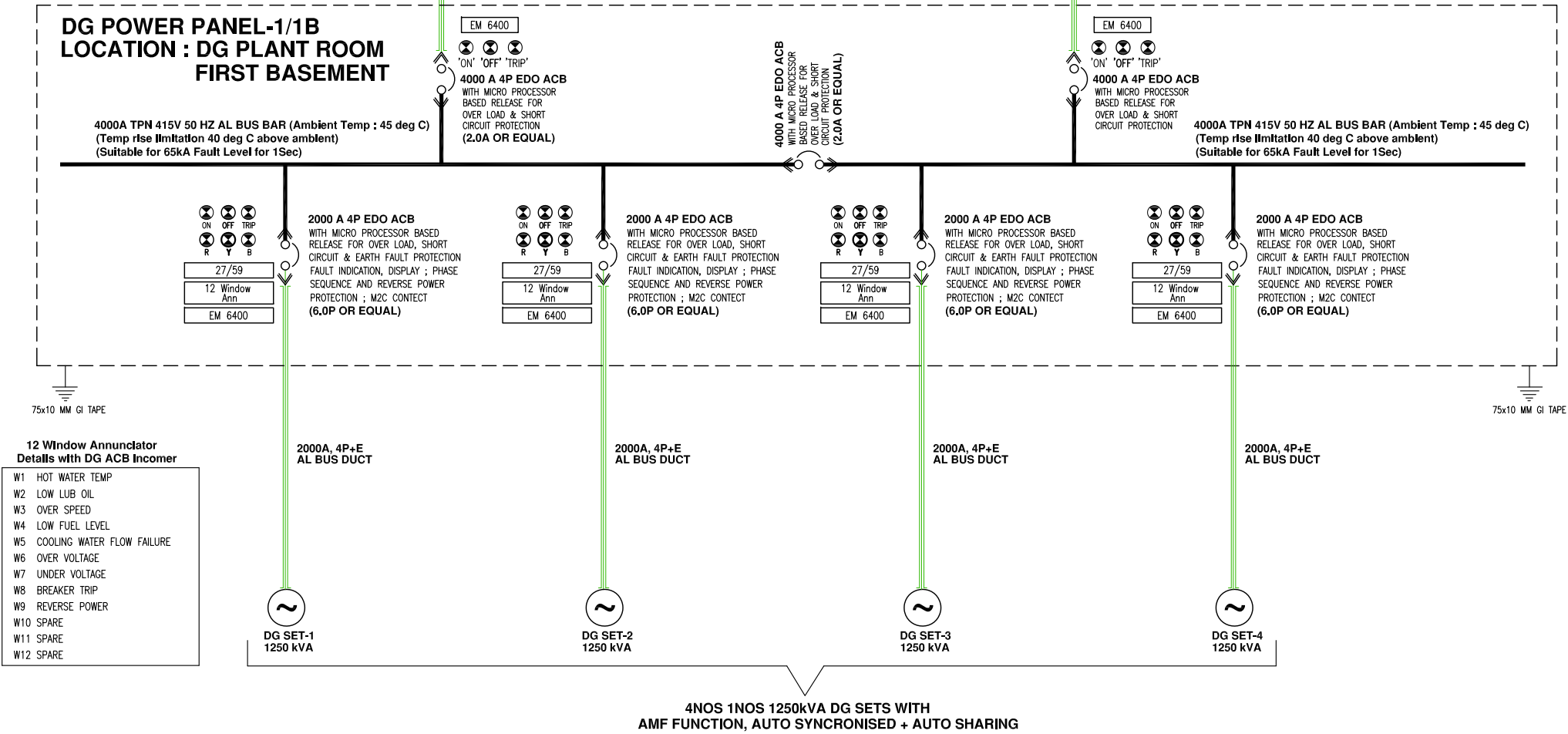
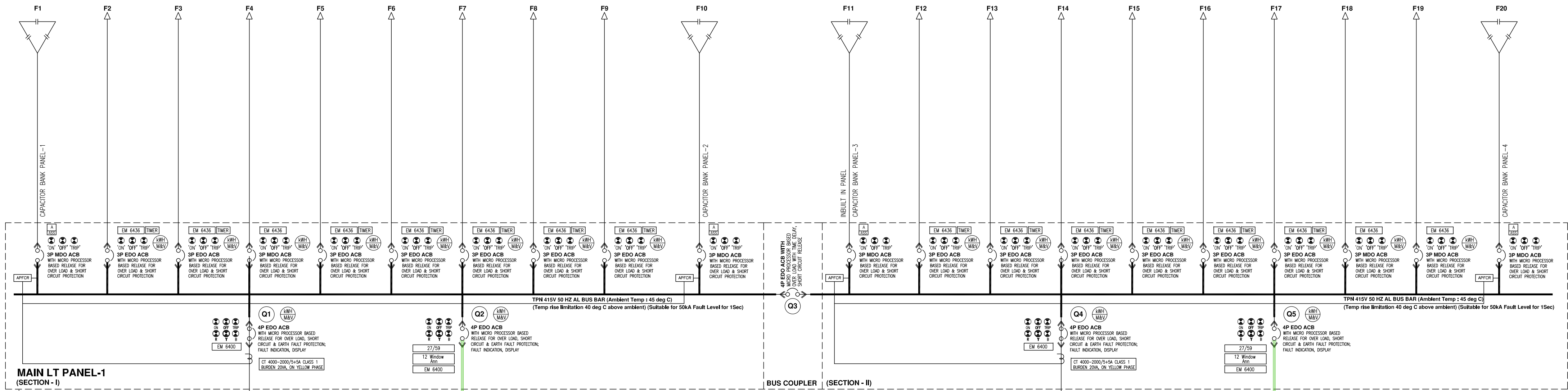
Architecture Management Planning

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SCALE 1:300	DEALT BY	DATE -
DESIGN BY	CHECKED BY	DRG. No. PL-01



IMPORTANT NOTES :-
1. ALL ACB'S SHALL BE SUITABLE FOR MNL 50 kA BREAKING CAPACITY
2. UNLESS OTHERWISE MENTIONED, ALL CABLES SHALL BE ALUMINIUM CONDUCTOR XLPE INSULATED.
3. CUMULATIVE VOLTAGE DROP HAS BEEN CONSIDERED AS MAXIMUM 3.0% UPTO MDB LEVEL FOR ALL FEEDERS.
4. FAULT WITH STAND CAPACITY OF MTP SHALL BE 50 KA FOR 1 SECOND.

GENERAL NOTES WHEREVER APPLICABLE		
NO.	DESCRIPTION	REMARKS
1.	SHEET STEEL FOR FABRICATION (FLOOR MOUNTED PANELS)	FRAMES/LARGE DOORS - 2MM THICK, SMALL DOORS/COVERS/PARTITIONS - 1.6MM THICK, BASE/GLAND PLATE - 2.5MM THICK CRCA
2.	PAINT	POWDER COATED, SIEMENS GREY, SHADE RAL-7032 THROUGHOUT STRUCTURED FINISH (TRANSFORMER & DG FEEDERS TO HAVE SEPERATE COLOURS FOR IDENTIFICATION @ BLUE FOR TR & ORANGE FOR DG SETS)
3.	REAR ACCESS	REQUIRED
4.	BUS BAR SIZE	AS INDICATED IN SLD
5.	BUS BAR	ELECTROLYTIC ALUMINIUM (CONDUCTIVITY NOT LESS THAN 85%) COVERED WITH COLOUR CODED HEAT SHRINK SLEEVES
6.	EARTH BUS	50MM X 10MM AL FOR FLOOR MOUNTED PANELS/STUDS FOR WALL MOUNTED PANELS
7.	CONTROL WIRING (1.5 SQ MM)	PVC INSULATED FLEXIBLE COPPER (2.5 SQ MM FOR CT SECONDARY) (COLOUR IDENTIFICATION REQUIRED FOR DIFFERENT CXTS)
8.	POWER WIRING	ALUMINIUM FLATS TO BE USED FOR 100 AMPS AND ABOVE
9.	CABLE ALLEY DOOR	HINGED WITH 3PIN LOCK (DOOR WIDTH LIMITED TO 600MM); 2 DOORS TO BE PROVIDED FOR CABLE ALLEY WIDTH EXCEEDING 600MM
10.	FEEDER COMPT. DOOR	HINGED WITH CHROME PLATED LOCKS.
11.	BUS BAR SUPPORT	SMC
12.	DEGREE OF PROTECTION	IP52 (LT PANEL); IP4X (HT PANEL)
13.	METERS	96 SQ MM X 96 SQ MM DIGITAL TYPE ALONGWITH BUILT-IN SELECTOR SWITCH
14.	CONTROL TERMINALS	MINIMUM 6 SQ MM
15.	CABLE ENTRY	TOP & BOTTOM
16.	PROTECTION & METERING	AS PER BDD / SLD

NO.	CODE / LEGEND	DESCRIPTION	REMARKS
1.		VACUUM CIRCUIT BREAKER	VCB
2.		AIR CIRCUIT BREAKER	ACB
3.		DIGITAL VOLTMETER WITH BUILT-IN SELECTOR SWITCH	-
4.		DIGITAL AMMETER WITH BUILT-IN SELECTOR SWITCH	-
5.		FREQUENCY METER	-
6.		HRC FUSES	-
7.		INDICATION LAMP (LED TYPE)	-
8.		CURRENT TRANSFORMER	-
9.		POTENTIAL TRANSFORMER	-

NO.	CODE / LEGEND	DESCRIPTION	REMARKS
10.	24	OVER FLUXING RELAY	GTM22 OR EQUAL
11.	27/59	UNDER & OVER VOLTAGE RELAY	VQM22 OR EQUAL
12.	30	AUXILIARY RELAY	VAH11/22/33 OR EQUAL
13.	32	REVERSE POWER RELAY	COUM21 OR EQUAL
14.	32A	ACTIVE REVERSE POWER RELAY	COUM21 OR EQUAL
15.	32R	REACTIVE REVERSE POWER RELAY	COUM21 OR EQUAL
16.	40	FIELD FAILURE RELAY	YCOF11 OR EQUAL
17.	46	NEGATIVE PHASE SEQUENCE RELAY	CTNM12 OR EQUAL
18.	49	THERMAL OVERLOAD RELAY	CTNM501 OR EQUAL
19.	50V,51V	VOLTAGE RESTRAINED OVER CURRENT RELAY	CDW62 OR EQUAL
20.	51N	1 OVER CURRENT OR EARTH FAULT RELAY	CDG11 OR EQUAL
21.	51,51N	2 OVER CURRENT & 1 EARTH FAULT RELAY	CDG31 OR EQUAL
22.	50,51,50N,51N	2 OVER CURRENT & 1 EARTH FAULT RELAY (WITH INSTANTANEOUS ELEMENT)	CDG61 OR EQUAL

NO.	CODE / LEGEND	DESCRIPTION	REMARKS
23.	59N	NEUTRAL DISPLACEMENT RELAY	YDG14 OR EQUAL
24.	60	PT FUSE FAILURE RELAY	VAPM31 OR EQUAL
25.	64	RESTRICTED EARTH FAULT RELAY	CAG14 OR EQUAL
26.	64R	EARTH FAULT RELAY (ROTOR)	VEM21 OR EQUAL
27.	64S	EARTH FAULT RELAY (STATOR)	PMM164 OR EQUAL
28.	80	DC FAILURE ALARM RELAY	YAG11 OR EQUAL
29.	81U/O	UNDER / OVER FREQUENCY RELAY	MPVAM21/22 OR EQUAL
30.	86	LOCKOUT / MASTER TRIP RELAY	VAH13 OR EQUAL
31.	87	DIFFERENTIAL PROTECTION RELAY	DTH31 OR EQUAL
32.	87T	DIFFERENTIAL PROTECTION RELAY (TRAFD)	DTH32 OR EQUAL
33.	87G	DIFFERENTIAL PROTECTION RELAY (GEN)	CAG34 OR EQUAL
34.	95	TRIP CIRCUIT SUPERVISION RELAY	VAX31 OR EQUAL

NO.	CODE / LEGEND	DESCRIPTION	REMARKS
35.	EM 3460	MAXIMUM DEMAND CONTROLLER WITH 1 MDO AND CONTACTS FOR ALARM + TRIP & RS 485 COMMUNICATION PORT	CONZERY-EM3460 OR EQUAL
36.	EM 6400	ENERGY METER V, A, HZ, KWH, KVARH, KVAR, PF, WITH IED DISPLAY & RS 485 COMMUNICATION PORT	CONZERY-EM6400 OR EQUAL
37.	EM 6436	DUAL SOURCE ENERGY METER V, A, HZ, KWH, PF & RS 485 COMMUNICATION PORT	CONZERY-EM6436 OR EQUAL
38.	EM 6438	DUAL SOURCE ENERGY METER KWH & RS 485 COMMUNICATION PORT	CONZERY-EM6438 OR EQUAL
39.	EM 6459	V, A, HZ METER	CONZERY-EM6459 OR EQUAL
40.	4 Window Ann	4 WINDOW ANNUNCIATOR	-
41.	8 Window Ann	4 WINDOW ANNUNCIATOR	-
42.	12 Window Ann	12 WINDOW ANNUNCIATOR	-
43.	16 Window Ann	16 WINDOW ANNUNCIATOR	-

NO.	CODE / LEGEND	DESCRIPTION	REMARKS
44.	RELEASE 2.0A	MICRO PROCESSOR BASED RELEASE FOR OVER LOAD & SHORT CIRCUIT PROTECTION ; FAULT INDICATION, DISPLAY	MG OR EQUAL
45.	RELEASE 6.0A	MICRO PROCESSOR BASED RELEASE FOR OVER LOAD, SHORT CIRCUIT & EARTH FAULT PROTECTION ; FAULT INDICATION, DISPLAY	MG OR EQUAL
46.	RELEASE 6.0P	MICRO PROCESSOR BASED RELEASE FOR OVER LOAD, SHORT CIRCUIT & EARTH FAULT PROTECTION ; FAULT INDICATION, DISPLAY ; PHASE SEQUENCE AND REVERSE POWER PROTECTION ; MDC CONTACT	MG OR EQUAL
47.	TCL	TOTAL CONNECTED LOAD	-
48.	TMDL	TOTAL MAXIMUM DEMAND LOAD	-
49.	CU/G	PVC INSULATED COPPER WIRE FOR EARTH	-
50.	CU/DE	PVC INSULATED COPPER EARTH WIRE FOR DEDICATED EARTH	-

SUBMISSION

PROJECT:

M/S STAR CITY BUILDERS & PROMOTERS LLP
PLOT NO-C-1 & C-2/TS, SECTOR-22D, YAMUNA EXPRESSWAY, YEIDA CITY.

DRAWING TITLE :

ELECTRICAL SCHEMATIC DIAGRAM

OWNER'S SIGN

ARCHITECT :

ACPL
ACPL Design Ltd

ARCHITECT'S SIGN

DATE

04.09.23

SCALE

NTS

DEALT BY

BHAJAN

DATE

04.09.23

DESIGN BY

CHECKED BY

NS

DRG. No.

SC-01