

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with "A" grade by NAAC I 12B Status by UGC I Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119

www.sathyabama.ac.in

SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

VIVA-VOCE EXAMINATION

This is to certify that the practical training SAR 4063 is the work of **MOHAMED SHAKIR.J** who had undergone training in

LARSEN & TOUBRO CONSTRUCTION and has been monitored by the continuous assessment during JUNE 2022 to NOVEMBER 2022.

Devi Gangopadhyay

Dr. Devyani Gangopadhyay
DEAN



Submitted for Viva voce Examination held on 19.12.2022

E. Vigneshwara
Internal Examiner

M. Anand
External Examiner

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DECLARATION

I, **MOHAMED SHAKIR.J**, hereby declaring that the Training Report **JUNE 2022 to SEPTEMBER 2022** done by me under the guidance of **Ar.NAGALINGAM.R** is submitted in partial fulfillment of the requirements for the completion of a practical training session.

DATE : 13.12.2022.

PLACE : CHENNAI

SIGNATURE OF CANDIDATE





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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

PRACTICAL TRAINING PORTFOLIO (SAR4063)

DEC 2022

Name of the Student : **MOHAMED SHAKIR J**

Batch : **2019 - 2024**

Reg No. : **39210047**

Semester : **VII**



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Dr.Devyani Gangopadhyay
DEAN

Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

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DATE :

PLACE :

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to the Board **of Management of SATHYABAMA** for their kind encouragement in doing this practical training and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr.Devyani Gangopadhyay**, Dean, School of Building and Environment and **Ar.Sarath Chandra Kanth**, Design Chair, Department of Architecture for having been a constant source of support and encouragement.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department who were helpful in many ways for the completion of the project.

I also wish to thank **Ar.NAGALINGAM.R**, for the experience of interning at their Firm.



LARSEN & TOUBRO

INTERNSHIP PORTFOLIO

Mohamed Shakir
39210047



GENERAL ACKNOWLEDGEMENT

As an enthusiastic intern, I see this opportunity as a way to contribute to the dynamic organisation Larsen & Toubro Construction, having a versatile portfolio. I got to learn something every day from discipline to time management, communication and software skills and various other soft skills suitable for future working environment.

Training in the company excited me as it gave a chance to explore and gain knowledge with respect to Architectural details, Interiors, on site activities, and also an additional scope of learning about client meetings with consultants and vendors on the projects that they deal with.

The training period helped me understand the process and time it takes for a design to transform from a sketch to real time project. It also made me realize the profound expertise with various constraints and broad spectrum of people we deal with to execute a project.

FIRM HISTORY

.....

Larsen & Toubro originated from a company founded in 1938 in Bombay by two Danish engineers, Henning Holck-Larsen and Søren Kristian Toubro. The company began as a representative of Danish manufacturers of dairy and allied equipment. However, with the start of the Second World War in 1939 and the resulting blockade of trade lines, the partners started a small workshop to undertake jobs and provide service facilities. Germany's invasion of Denmark in 1940 stopped supplies of Danish products. The war-time need to repair and refit and degauss ships offered L&T an opportunity, and led to the formation of a new company, Hilda Ltd, to handle these operations. L&T also started to repair and fabricate ships signalling the expansion of the company. The sudden internment of German engineers in British India (due to suspicions caused by the Second World War), who were to put up a soda ash plant for the Tata's, gave L&T a chance to enter the field of installation.

During the 1970s, L&T was contracted to work with Indian Space Research Organisation (ISRO). Its then chairman, Vikram Sarabhai, chose L&T as manufacturing partner. In 1972, when India launched its space programme, the firm was invited to participate.

In 1985, L&T entered into a partnership with Defence Research and Development Organisation (DRDO). L&T was not yet allowed by the government to manufacture defence equipment but was permitted to participate in design and development programmes with DRDO. After the design and development was done, the firm had to hand over all the drawings to DRDO. The government would then assign the production work to a public sector defence unit or ordnance factory for manufacture. After a series of successes and positive policy initiatives, the firm today makes a range of weapon and missile systems, command and control systems, engineering systems and submarines through DRDO.

JOINING LETTER & COMPLETION CERTIFICATE



Larsen & Toubro Limited,
Construction
Buildings & Factories
P. B. No. 979, Mount Poonamallee Road,
Manapakkam,
Chennai - 600 089, INDIA
Tel : +91-44-2252 6000, 2252 8000
Fax : +91-44-2259 7288
www.Lntecc.com

B&F IC/EDRC-HR/Training/575-2022

31 May 2022

Head of the Department
Sathyabama Univeristy
Kamaraj Nagar, Semmancheri,
Chennai, Tamil Nadu 600119

Dear Sir/Madam,

Sub: Project Training

This has reference to your letter dated **30-May-2022** regarding Project Training for your student, **Mohamed Shakir**. As a special case, we agree to admit him for Project Training from **30-May-2022 to 9-September 2022**.

Please advise «him» to carry 3 Passport size photographs, copy of «His» College ID card and Adhaar card copy while reporting for the project training.

Please note that:

- He has to undergo the training without any financial commitment to our Company and fully at «His» own risk and responsibility.
- He must strictly comply with safety & other rules applicable at the project site/Office.
- He will be awarded His Project Training completion certificate on submission of the Project Report.

Thanking You,

**Yours faithfully,
For LARSEN & TOUBRO LIMITED**

**SUNEET KUMAR
DGM - HUMAN RESOURCES**

Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA
Licence No.: CIN - L99999MH1946PLC004768

L&T Construction - Buildings & Factories is a brand of Larsen & Toubro Limited

Sensitivity: LNT Construction Internal Use



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Fax : +91-44-2259 7288
www.Lntecc.com

LTC-HQ/B&F/EDRC-HR/Training/575-2022

03 December 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. MOHAMED SHAKIR. J (39210047)** from **Sathyabama Institute Of Science & Technology, Chennai**, has undergone his project internship at our Engineering Design & Research Centre (EDRC) – Headquarters from **30 May 2022 to 30 September 2022**.

We wish him all the best for his future endeavors.

Yours faithfully,

for LARSEN & TOUBRO LIMITED

**SUNEET KUMAR
DGM - HUMAN RESOURCES**

Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA
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MONTHLY REPORT



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : LARSEN & TOUBRO CONSTRUCTION
2. Address & Contact Number : MANAPAKKAM, CHENNAI
3. Name of the student : MOHAMMED SHAKIR J.
4. Duration : From 01.06.2022 To 01.07.2022
5. Total No. of days : 24

6. Evaluation of Performance criteria shall be on
* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings		✓			
Presentation Techniques		✓			
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule		✓			
Other computer skills		✓			
File and Office Maintenance		✓			
Coordination with other consultants		✓			
Overall Grading*	F				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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7. Any other Remarks :

8. Signature of the:
Head of the Office
/ Organization
(With Seal)

[Signature]



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : JARSEN & TOUSRO CONSTRUCTION
2. Address & Contact Number : IYANNAKKAM, CHENNAI
3. Name of the student : MOHAMED SHAKIB J
4. Duration : From 01-07-2022 To 01-08-2022
5. Total No. of days :

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings		✓			
Presentation Techniques		✓			
Model making works		✓			
Understanding of construction details			✓		
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule		✓			
Other computer skills		✓			
File and Office Maintenance	✓				
Coordination with other consultants		✓			
Overall Grading*	8				

(A-9.0, B-8.0, C-7.0, D-6.0, E-5.0)



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : L & T CONSTRUCTION
2. Address & Contact Number : MANAPAKKAM, CHENNAI.
3. Name of the student : MOHAMED SHAKIR.T
4. Duration : From 01-08-2022 To 01-09-2022
5. Total No. of days : 24.

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings	✓				
Presentation Techniques	✓				
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients					
Adherence to Time schedule	✓				
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants		✓			
Overall Grading*	A				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : L&T CONSTRUCTION
2. Address & Contact Number : MANAPAKKAM, CHENNAI
3. Name of the student : MOHAMED SHAKIR.T
4. Duration : From 01.09.2022 To 01.10.2022
5. Total No. of days : 24

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings	✓				
Presentation Techniques	✓				
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients					
Adherence to Time schedule	✓				
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants		✓			
Overall Grading*	9				

(A - 9.0, B - 8.0, C - 7.0, D - 6.0, E - 5.0)



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WORK DAIRY

WEEKS	PROJECT NAME	WORK DONE
WEEK 1 (31.05.2022 -04.06.2022)	ADAMBAKAM RESIDENCE	PLAN AND MODEL MAKING & INTERIOR & EXTERIOR RENDERING
WEEK 2 (06.06.2022 - 11.06.2022)	DATA CENTER-MUMBAI	SUBSTATION & HSD YARD DETAIL
WEEK 3 (13.06.2022 -18.06.2022)	HOSPITAL PROJECT - BANGIAGOAN	LANDSCAPE QUANTIFICATION
WEEK 4 (20.06.2022 -25.06.2022)	DATA CENTER-MUMBAI	WEST GATE MODELLING & SITE PLAN RENDERING
WEEK 5 (27.06.2022 -02.07.2022)	DATA CENTER-MUMBAI	COMPOUND WALL ELEVATION DETAIL DRAWING
WEEK 6 (04.07.2022 -09.07.2022)	DATA CENTER-MUMBAI	PLAN , SECTION ELEVATION RENDERING
WEEK 7 (11.07.2022 -16.07.2022)	DATA CENTER-MUMBAI	WASTE MANAGEMENT AREA REDESIGNING
WEEK 8 (18.07.2022 -23.07.2022)	DATA CENTER-PANVEL	AREA STATEMENT
WEEK 9 (25.07.2022 -30.07.2022)	DATA CENTER-MUMBAI	COMMENT INCORPORATION &FIRE SAFETY ANALYSIS & SITE BOQ
WEEK 10 (01.08.2022 -06.08.2022)	DATA CENTER-MUMBAI	GENRAL ARRANGEMENT LAYOUT FOR ALL LEVELS & CANOPY ETAILS
WEEK 11 (08.08.2022 -13.08.2022)	DATA CENTER-MUMBAI	FINISHING SHEDULE FOR MAIN AND ANCILLILARY BUILDINGS
WEEK 12 (15.08.2022 -20.08.2022)	DATA CENTER-MUMBAI	REFELECTED CEILING PLAN-GROUND FLOOE AND THIRD FLOOR
WEEK 13 (22.08.2022 -27.08.2022)	OFFICE PROJECT - CHENNAI	MODEL MAKING & FAÇADE RENDERS
WEEK 14 (29.08.2022 -03.09.2022)	OFFICE PROJECT - CHENNAI	MODEL MAKING & FAÇADE RENDERS
WEEK 15 (05.09.2022 -10.09.2022)	DATA CENTER-MUMBAI SITE VISIT	SITE VISIT AND LANSCAPE DRAWING COMMENTS INCORPORATION COMMENTS
WEEK 16 (12.09.2022 -17.09.2022)	DATA CENTER-MUMBAI	ANCILARRY BUILDINGS CLASH DETECTION WITH STRUCTURAL DRAWINGS
WEEK 17 (19.09.2022 -24.09.2022)	DATA CENTER-MUMBAI	COMMENT INCORPORATION ON DETAIL DRAWING SHEETS
WEEK 18 (26.09.2022 -01.10.2022)	DATA CENTER-MUMBAI	STANDARD DRAWINGS AND CLASH DETECTION ON MODELS

INDEX

DATA CENTER - Mumbai Project
(office design , facade)

1

DATA CENTER - Mumbai project
(fire safety analysis , finishing shedule)

2

DATA CENTER - Mumbai project
(site study , Detail drawings)

3

DATA CENTER - Panvel project
(Area Statement)

4

HOSPITAL - Bangaigaon Project
(Landscape Quantification)

5

OFFICE - Chennai Project
(Elevation & Facade option)

6

RESIDENTIAL - Adambakkam Project
(Interior Renders)

7

Site visit

8

Chief Architect
Ar.Nagaligam



MUMBAI PROJECT

OFFICE DESIGN AND FACADE



DATA CENTER

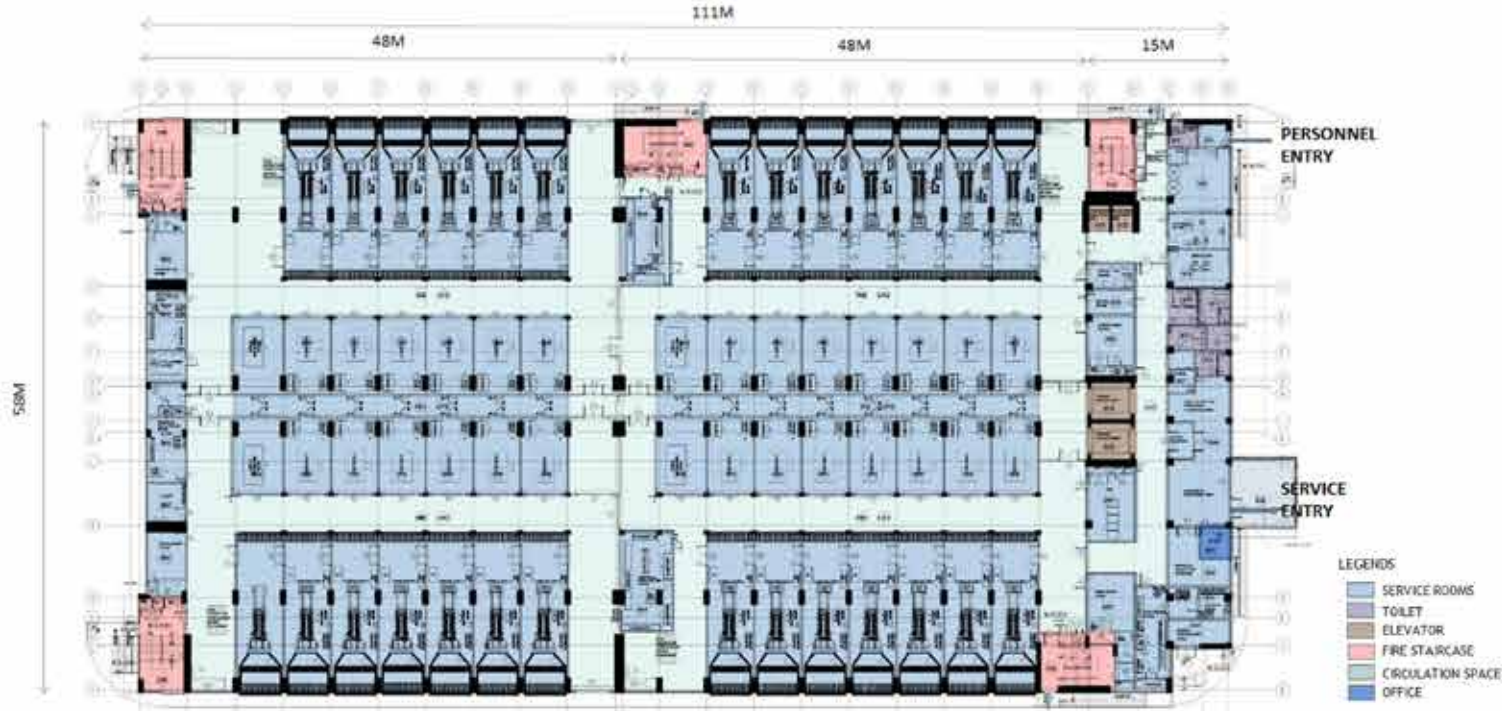
MUMBAI PROJECT

1

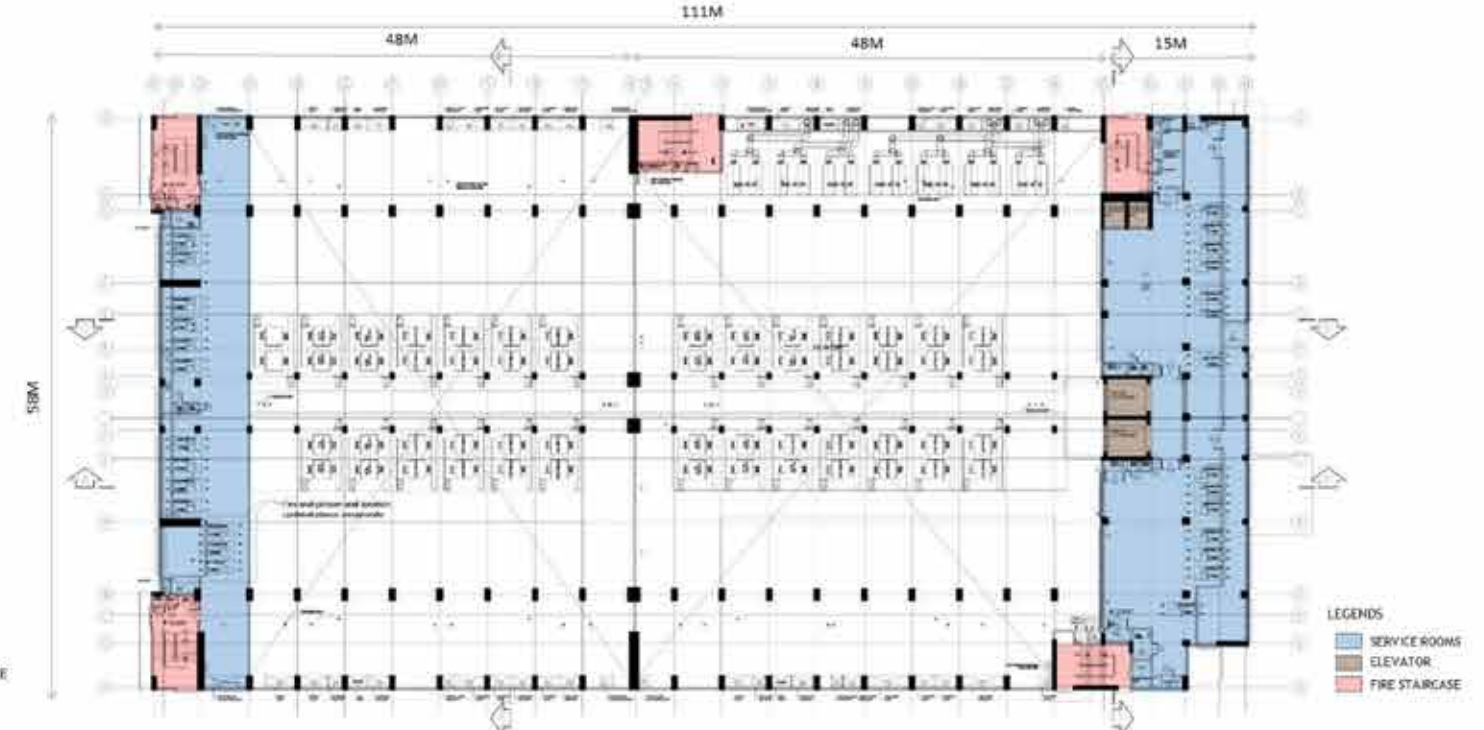
FLOOR PLANS



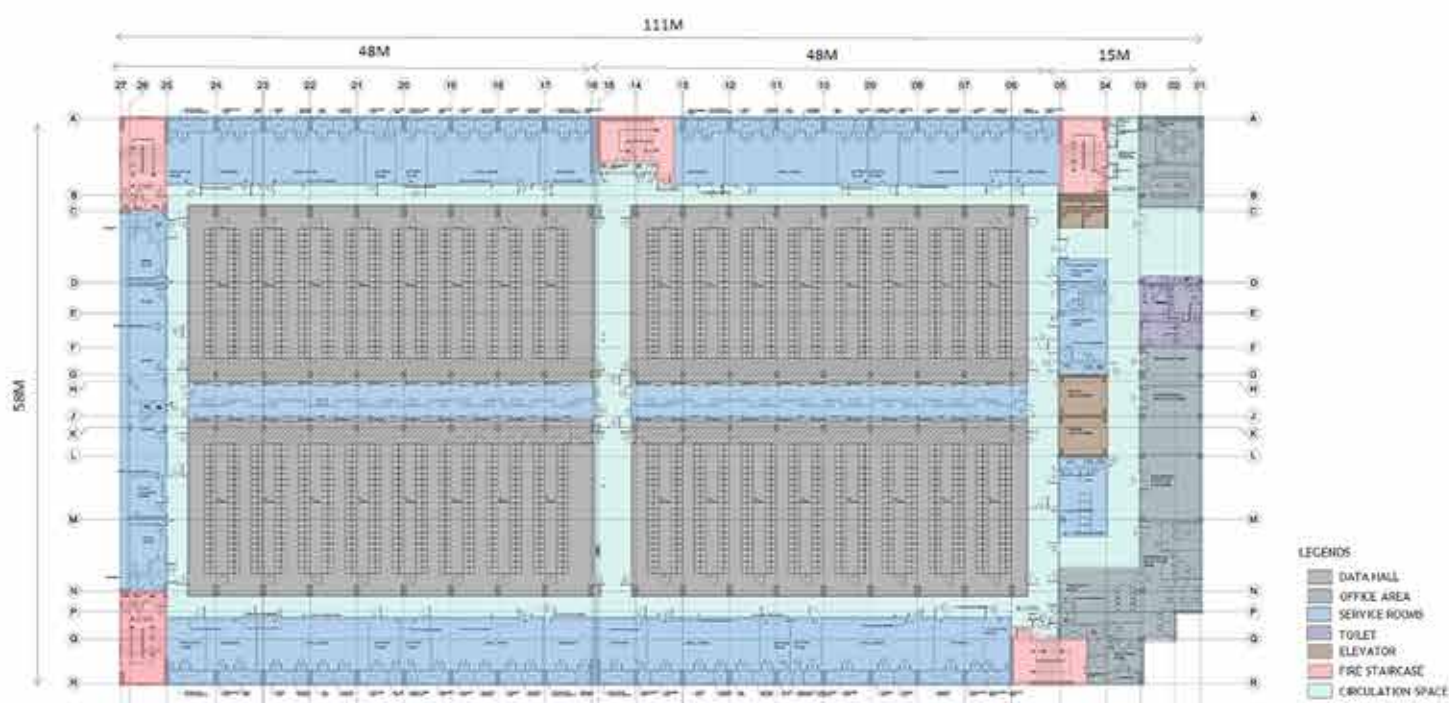
GROUND FLOOR PLAN



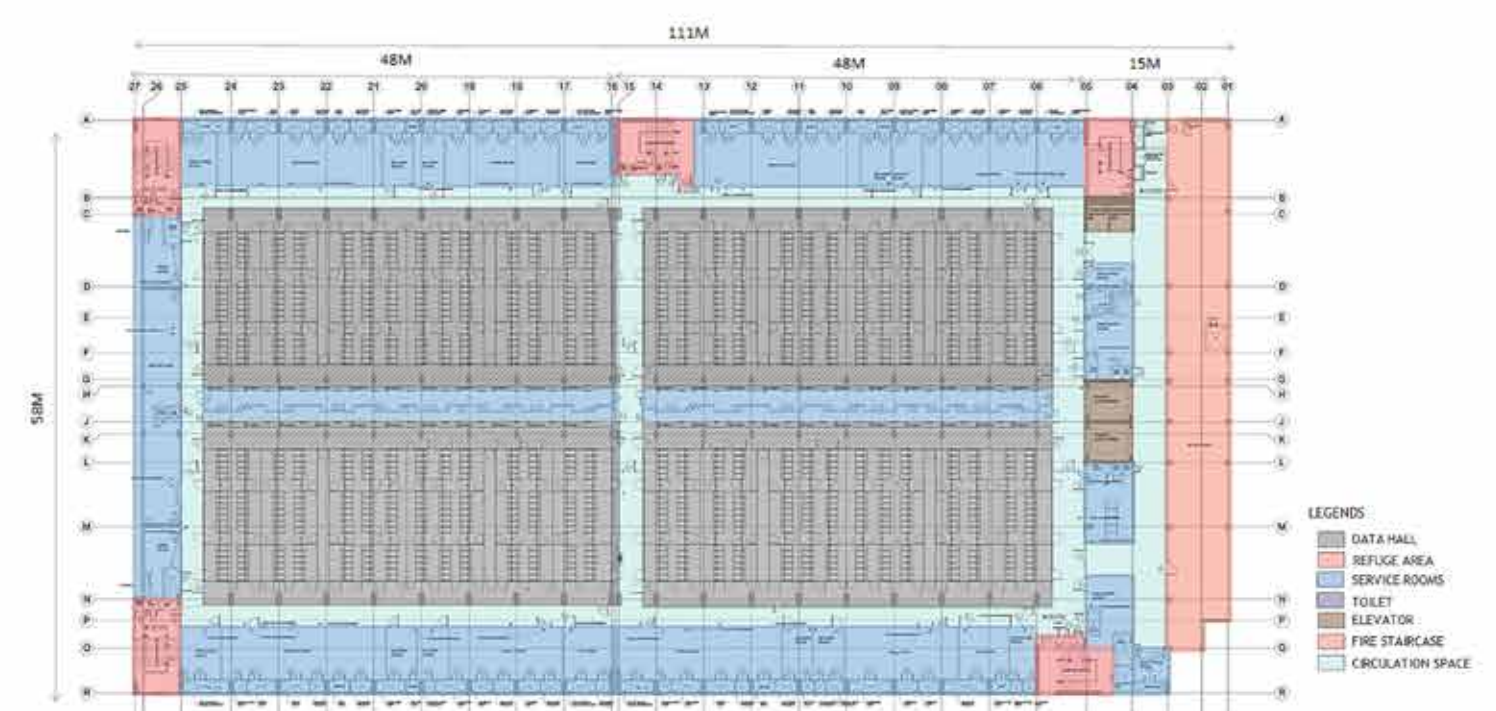
MEZZANINE FLOOR PLAN



TYPICAL FLOOR PLAN



THIRD FLOOR PLAN (REFUGE AREA)

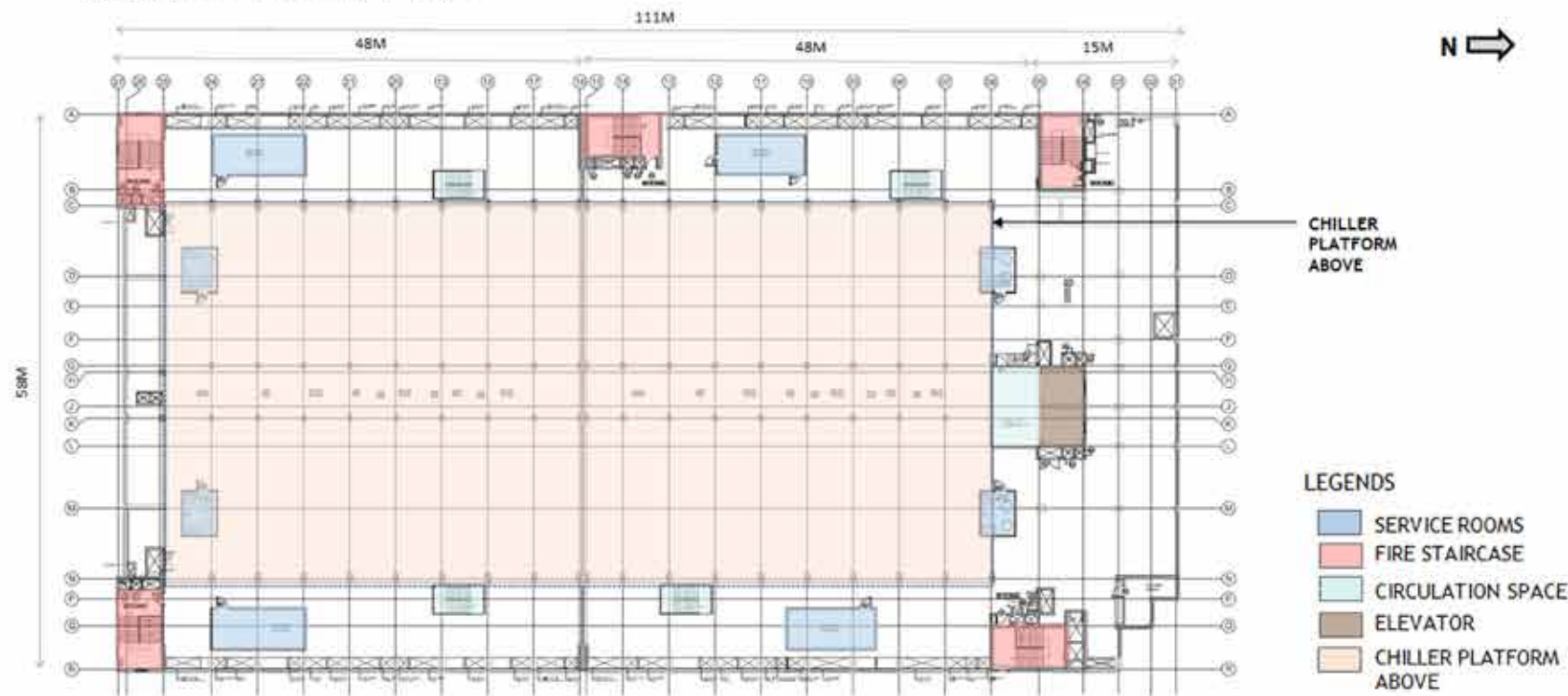


DATA CENTER

MUMBAI PROJECT

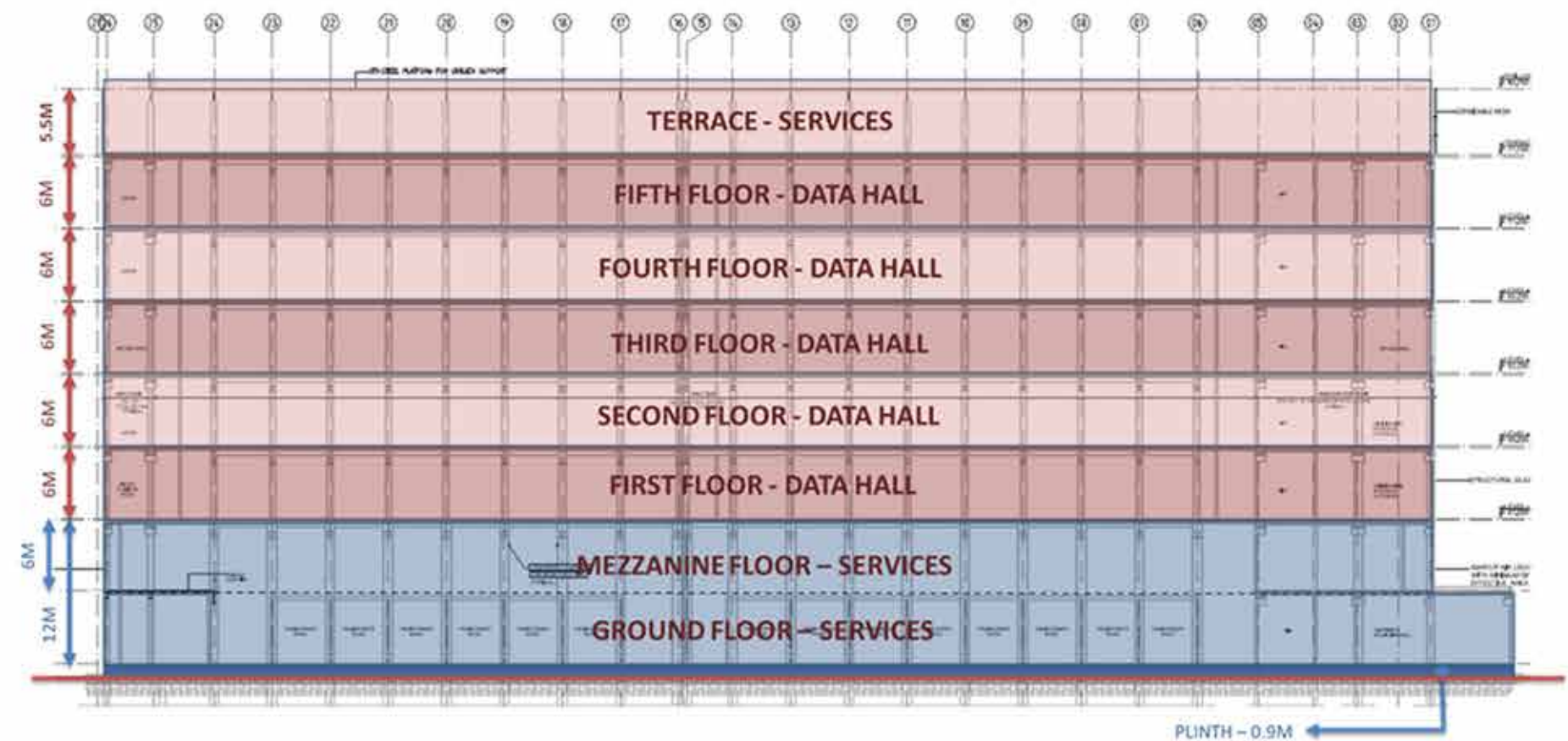
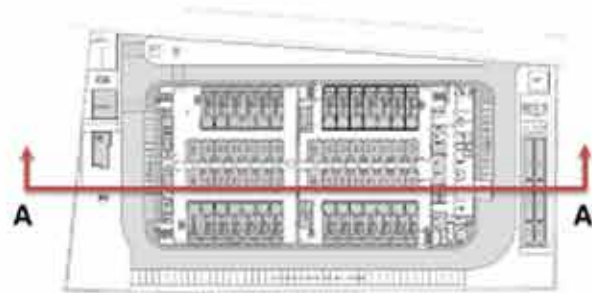
1

TERRACE FLOOR PLAN



SCHEMATIC SECTION

KEY PLAN



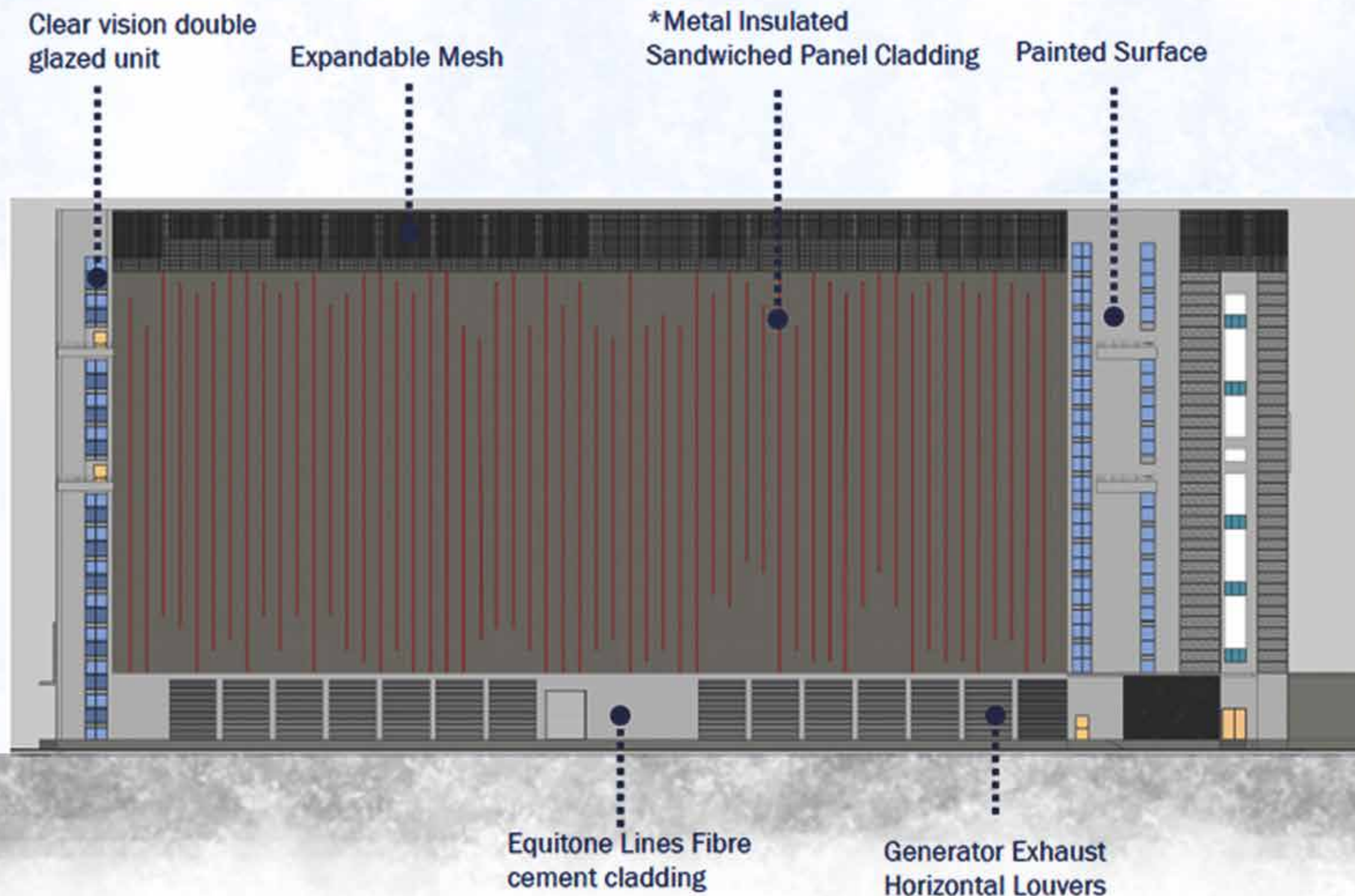
DATA CENTER

MUMBAI PROJECT

1

Rendered Elevation

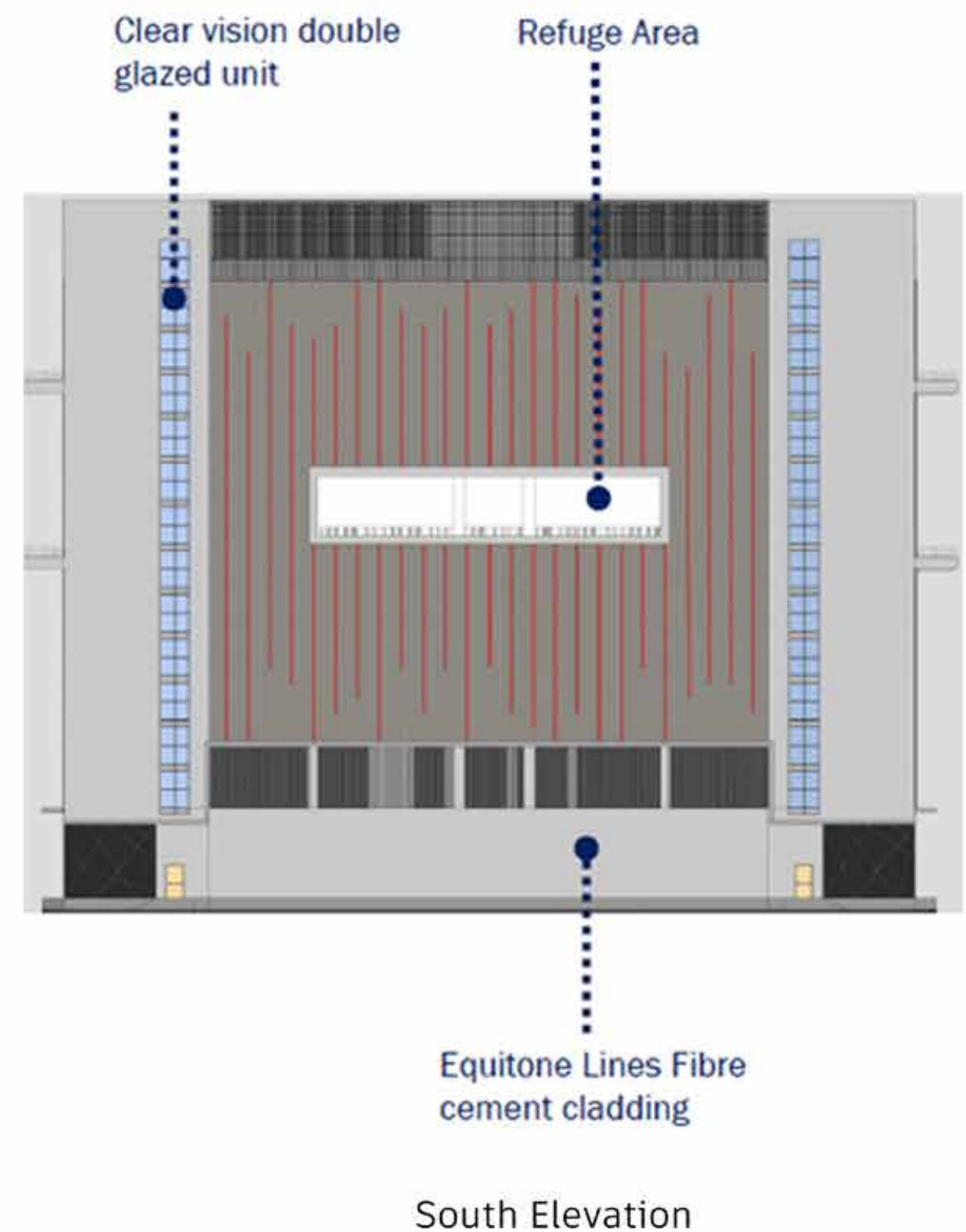
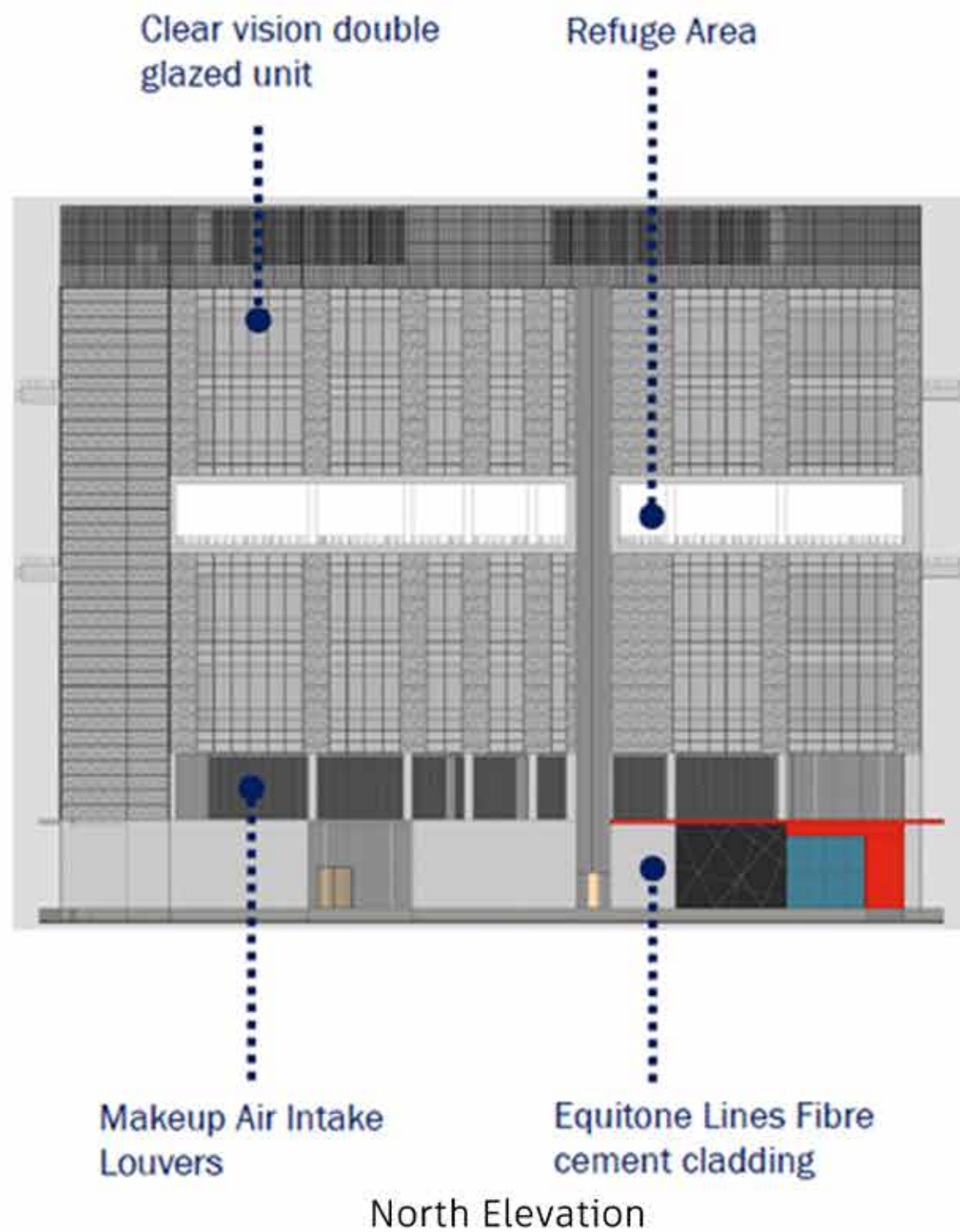
West Elevation



DATA CENTER

MUMBAI PROJECT

1

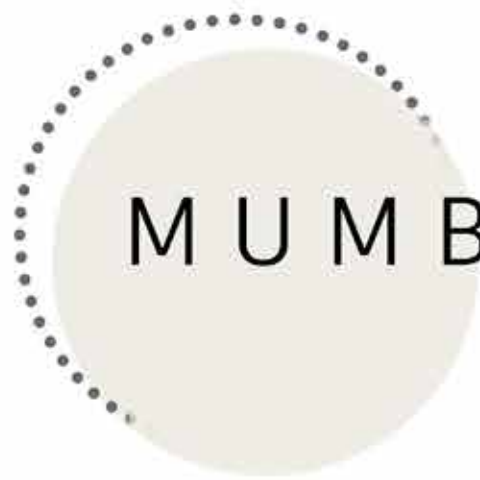


.....
DATA CENTER

MUMBAI PROJECT
.....

EXTERIOR VIEW

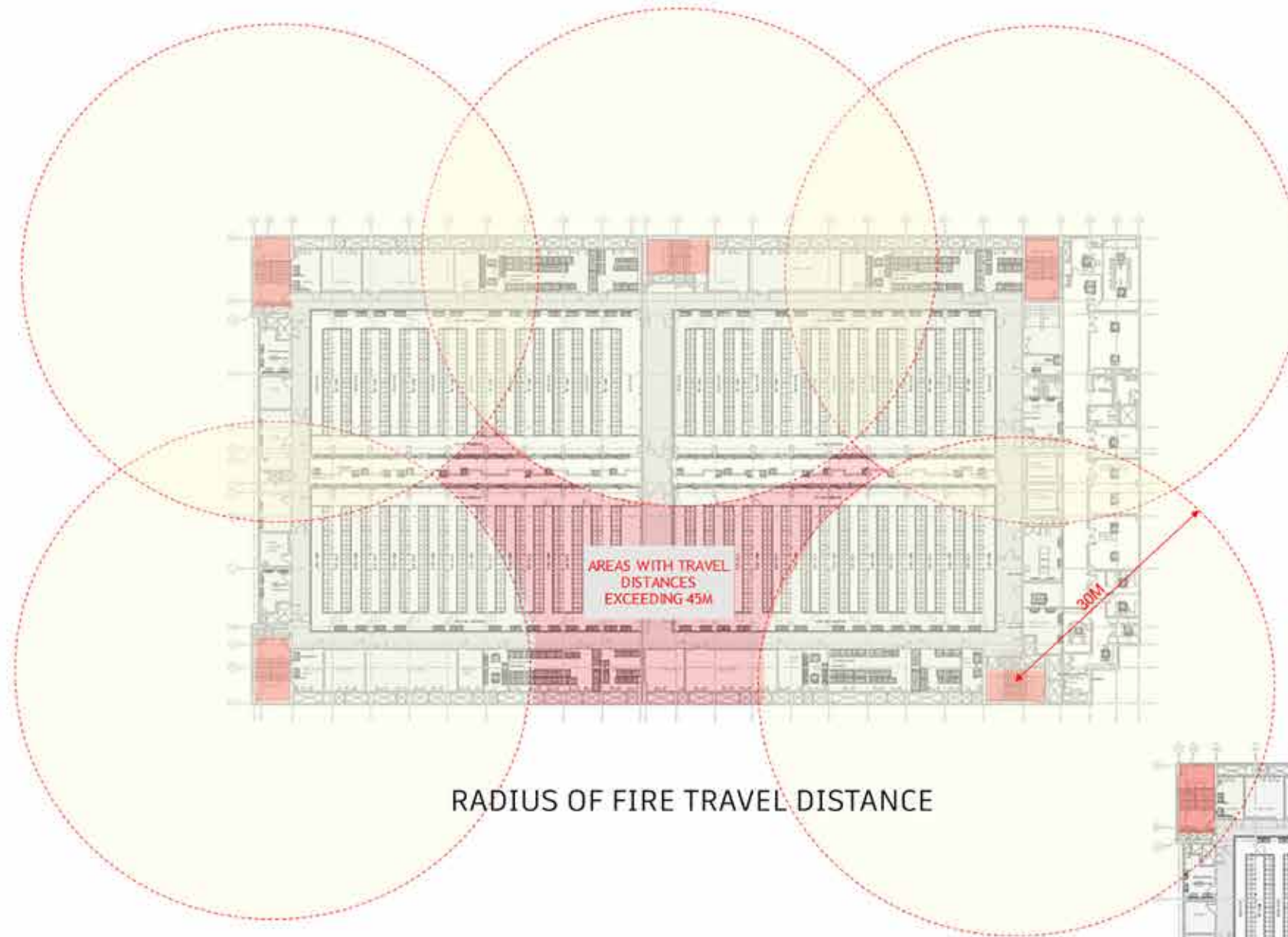




MUMBAI PROJECT

FIRE SAFETY ANALYSIS & FINISHING SCHEDULE





FIRE TRAVEL DISTANCE

PATHWAY OF FIRE TRAVEL DISTANCE



TYPICAL FLOOR PLAN

..... TRAVEL DISTANCE > 45M

DATA CENTER

MUMBAI PROJECT

2

FINISHING SHEDULE



LARSEN & TOUBRO LIMITED
EDDC B&F IC
EQUINIX DATACENTER, MUMBAI
FINISHING MATRIX

	LOCATION ROOM NAME	FLOOR FINISH TYPE	CEILING FINISH TYPE	WALL FINISH TYPE	SKIRTING FINISH THICKNESS / HEIGHT/TYPE
DC BUILDING					
GROUND FLOOR					
S.NO					
1	VESTIBULE	GRANITE STONE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	PAINT	100 MM HIGH GRANITE SKIRTING
2	RAMP	GRANITE STONE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	PAINT	100 MM HIGH GRANITE
3	LOBBY	PORCELAIN TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF WORLD MAP, WALL COVERING, PAINT TILL FLASE CEILING	100MM HIGH PORCELAIN SKIRTING
4	GENERATOR HALL	EPOXY FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH EPOXY SKIRTING
5	PASSENGER LIFT LOBBY	GRANITE STONE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF GRANITE CLADDING WITH PAINT TILL FALSE CEILING	100MM HIGH RUBBER SKIRTING
6	NIR	RUBBER FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH RUBBER SKIRTING
7	FREIGHT LIFT LOBBY	VINYL COMPOSITE TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF VETRIRED TILE CLADDING WITH PAINT TILL FALSE CEILING	100MM HIGH RUBBER SKIRTING
8	FIBRE ENTRY ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH CEMENT SKIRTING
9	ELECTRICAL SWITCH ROOM 1,2,3,4	EPOXY FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH EPOXY SKIRTING
10	PRE-ACTION ROOM	PORCELAIN TILE	EXPOSED TO SLAB	PAINT	100MM HIGH PORCELAIN SKIRTING
11	SPARE ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
12	SECURITY ROOM	PORCELAIN TILE	COMBINATION OF GYPSUM BOARD AND METAL CEILING TILE	EQUINIX LOGO WALL COVERING, PAINT	100MM HIGH PORCELAIN SKIRTING
13	BMS	PORCELAIN TILES	COMBINATION OF GYPSUM BOARD AND METAL CEILING TILE	EQUINIX LOGO WALL COVERING, PAINT	100MM HIGH PORCELAIN SKIRTING
14	STORE ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
15	RESTROOM	PORCELAIN TILES	CALCIUM SILICATE BOARD	COMBINATION GRANITE AND PORCELAIN CLADDING TILL FALSE CEILING	100MM HIGH CEMENT SKIRTING
16	QUANTIFIED STORAGE	POLISHED CONCRETE	GYPSUM BOARD	PAINT	100MM HIGH CEMENT SKIRTING
17	ELECTRICAL CART STORAGE & CHARGING AREA	POLISHED CONCRETE	COMBINATION OF GYPSUM BOARD AND METAL CEILING TILE	PAINT	100MM HIGH CEMENT SKIRTING
18	SHIPPING & RECEIVING AREA	POLISHED CONCRETE	EXPOSED TO SLAB	COMBINATION OF DIAMOND PLATED METAL WAINSCOT TILL 1.2M, PAINT	100MM HIGH CEMENT SKIRTING
19	SHIPPING & RECEIVING OFFICE AREA	POLISHED CONCRETE	GYPSUM BOARD	PAINT	100MM HIGH CEMENT SKIRTING
20	SECURED INVENTORY STORAGE	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
21	BATTERY ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
22	ELECTRICAL ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH CEMENT SKIRTING
23	WATSE MANAGEMENT ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
24	CORRIDOR BOH	VINYL COMPOSITE TILE	EXPOSED TO SLAB	PAINT	100MM HIGH RUBBER SKIRTING
25	CORRIDOR FOH	LUXURY VINYL TILE	ACOUSTIC CEILING TILE	PAINT	100MM HIGH VINYL SKIRTING
26	FREIGHT ELEVATOR 1&2	GRANITE STONE	EXPOSED TO SLAB	COMBINATION OF DECORATIVE METAL PANEL, FROSTED GLAZING, PAINT	100 MM HIGH GRANITE SKIRTING
27	PASSENGER ELEVATOR 1 & 2	GRANITE STONE	EXPOSED TO SLAB	PAINT	100 MM HIGH GRANITE SKIRTING
28	GOODS MANTRAIR	GRANITE STONE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
29	LOADING AND UNLOADING DOCK	GRANITE STONE	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
30	STAIRCASE	POLISHED CONCRETE	-	PAINT	100MM HIGH CEMENT SKIRTING
MEZZANINE FLOOR					
1	FANROOM	EPOXY FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH EPOXY SKIRTING
2	FREIGHT ELEVATOR LOBBY	PORCELAIN TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF VETRIRED TILE CLADDING WITH PAINT TILL FALSE CEILING	-
3	PASSENGER ELEVATOR LOBBY	GRANITE STONE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF GRANITE CLADDING WITH PAINT TILL FALSE CEILING	-
4	STAIRCASE	POLISHED CONCRETE	-	PAINT	100MM HIGH CEMENT SKIRTING
FIRST FLOOR					
1	SMALL CONFERENCE ROOM	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION, MARKER BOARD TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
2	MEDIUM CONFERENCE ROOM	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION, MARKER BOARD TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
3	CONFERENCE ROOM	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION, MARKER BOARD TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
4	CUSTOMER BREAK ROOM	PORCELAIN TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION, MARKER BOARD TILL FALSE CEILING	100MM HIGH PORCELAIN SKIRTING
5	PRE-ACTION ROOM IN FOH	PORCELAIN TILE	EXPOSED TO SLAB	PAINT	100MM HIGH PORCELAIN SKIRTING
6	RESTROOM	PORCELAIN TILE	CALCIUM SILICATE BOARD	COMBINATION GRANITE AND PORCELAIN CLADDING TILL FALSE CEILING	100MM HIGH EPOXY SKIRTING
7	FIBRE ENTRY ROOM	EPOXY FLOORING	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH RUBBER SKIRTING
8	IMPLEMENTATION MANAGER OFFICE	RUBBER FLOORING	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, PAINT	100MM HIGH RUBBER SKIRTING
9	CUSTOMER FLEX/STORAGE	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
10	TECH OPERATIONS WORKROOM	RUBBER FLOORING	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH RUBBER SKIRTING
11	NIR	RUBBER FLOORING	EXPOSED TO SLAB	TACK BOARD, PAINT	100MM HIGH RUBBER SKIRTING
12	FACILITY OPERATION WORKSHOP & STORAGE	PORCELAIN TILE	EXPOSED TO SLAB	PAINT	100MM HIGH PORCELAIN SKIRTING
13	FACILITY OPERATION OFFICE	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
14	ELECTRICAL ROOM	EPOXY FLOORING	EXPOSED TO SLAB	GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH EPOXY SKIRTING
15	PRE-ACTION ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
16	STS ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
17	EWALL ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
18	BATTERY ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
19	FIBRE ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
20	DATA HALL	DENSIFYING SEALER	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH CEMENT SKIRTING
21	FREIGHT LIFT LOBBY	VINYL COMPOSITE TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	PAINT	100MM HIGH CEMENT SKIRTING
22	PASSENGER LIFT LOBBY	GRANITE STONE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF VETRIRED TILE CLADDING WITH PAINT TILL FALSE CEILING	-
23	SPARE ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	COMBINATION OF GRANITE CLADDING WITH PAINT TILL FALSE CEILING	100MM HIGH CEMENT SKIRTING
24	CORRIDOR BOH	VINYL COMPOSITE TILE	EXPOSED TO SLAB	PAINT	100MM HIGH RUBBER SKIRTING
25	CORRIDOR FOH	LUXURY VINYL TILE	ACOUSTIC CEILING TILE	PAINT	100MM HIGH VINYL SKIRTING
26	STAIRCASE	POLISHED CONCRETE	-	PAINT	100MM HIGH CEMENT SKIRTING
SECOND FLOOR					
1	CUSTOMER FLEX AREA	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
2	CAFÉ AREA	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
3	FIBRE ENTRY ROOM	EPOXY FLOORING	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH EPOXY SKIRTING
4	NIR	RUBBER FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH RUBBER SKIRTING
5	STS ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
6	EWALL ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
7	BATTERY ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
8	DATA HALL	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
9	FIBRE ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
10	SPARE ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH CEMENT SKIRTING
11	PRE-ACTION ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
12	ELECTRICAL ROOM	EPOXY FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH EPOXY SKIRTING
13	PASSENGER LIFT LOBBY	LUXURY VINYL TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	PLYWOOD BACKING PANEL	-
14	FREIGHT LIFT LOBBY	VINYL COMPOSITE TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF GRANITE CLADDING WITH PAINT TILL FALSE CEILING	100MM HIGH CEMENT SKIRTING
15	PRE-ACTION ROOM IN FOH	PORCELAIN TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF VETRIRED TILE CLADDING WITH PAINT TILL FALSE CEILING	-
16	RESTROOM	PORCELAIN TILE	CALCIUM SILICATE BOARD	PAINT	100MM HIGH PORCELAIN SKIRTING
17	CORRIDOR FOH	LUXURY VINYL TILE	ACOUSTIC CEILING TILE	COMBINATION GRANITE AND PORCELAIN CLADDING TILL FALSE CEILING	100MM HIGH VINYL SKIRTING
18	CORRIDOR BOH	VINYL COMPOSITE TILE	EXPOSED TO SLAB	PAINT	100MM HIGH RUBBER SKIRTING
19	STAIRCASE	POLISHED CONCRETE	-	PAINT	100MM HIGH CEMENT SKIRTING
20	REFUGE AREA	POLISHED CONCRETE	-	PAINT	-
THIRD ,FOURTH & FIFTH FLOOR					
1	CUSTOMER FLEX ROOM	CARPET TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	TACK BOARD, REGIONAL MAP WALL COVERING, WHITE PAINT, GLASS PARTITION, GYPSUM PARTITION TILL FALSE CEILING	100MM HIGH LAMINATE SKIRTING
2	FIBRE ENTRY ROOM	EPOXY FLOORING	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH EPOXY SKIRTING
3	NIR	RUBBER FLOORING	EXPOSED TO SLAB	PAINT	100MM HIGH RUBBER SKIRTING
4	STS ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
5	EWALL ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
6	BATTERY ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
7	DATA HALL	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
8	FIBRE ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH CEMENT SKIRTING
9	SPARE ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
10	PRE-ACTION ROOM	DENSIFYING SEALER	EXPOSED TO SLAB	PAINT	100MM HIGH CEMENT SKIRTING
11	ELECTRICAL ROOM	EPOXY FLOORING	EXPOSED TO SLAB	PLYWOOD BACKING PANEL	100MM HIGH EPOXY SKIRTING
12	PASSENGER LIFT LOBBY	LUXURY VINYL TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF GRANITE CLADDING WITH PAINT TILL FALSE CEILING	-
13	FREIGHT LIFT LOBBY	VINYL COMPOSITE TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF VETRIRED TILE CLADDING WITH PAINT TILL FALSE CEILING	100MM HIGH CEMENT SKIRTING
14	PRE-ACTION ROOM IN FOH	PORCELAIN TILE	COMBINATION OF ACOUSTIC CEILING TILE & GYPSUM BOARD	COMBINATION OF GRANITE CLADDING WITH PAINT TILL FALSE CEILING	-
15	RESTROOM	PORCELAIN TILE	CALCIUM SILICATE BOARD	PAINT	100MM HIGH PORCELAIN SKIRTING
16	CORRIDOR BOH	VINYL COMPOSITE TILE	EXPOSED TO SLAB	COMBINATION GRANITE AND PORCELAIN CLADDING TILL FALSE CEILING	100MM HIGH VINYL SKIRTING
17	CORRIDOR FOH	LUXURY VINYL TILE	ACOUSTIC CEILING TILE	PAINT	100MM HIGH RUBBER SKIRTING
18	STAIRCASE	POLISHED CONCRETE	-	PAINT	100MM HIGH CEMENT SKIRTING
TERRACE FLOOR					
1	ROOF SWITCH ROOM	PORCELAIN TILE	EXPOSED TO SLAB	PAINT	100MM HIGH PORCELAIN SKIRTING
2	CHILLED WATER PRESSURE SYSTEM	PORCELAIN TILE	EXPOSED TO SLAB	PAINT	100MM HIGH PORCELAIN SKIRTING
ANCILLARY BUILDING					
1	SECURITY CABIN	PORCELAIN TILE	ENAMEL PAINT	PAINT	100MM HIGH PORCELAIN SKIRTING
2	SUBSTATION	EPOXY FLOORING	EXPOSED TO SLAB	PAINT	-
3	PUMP ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	-
4	FUEL PUMP ROOM	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	-
5	ENTRY STEPS	POLISHED CONCRETE	EXPOSED TO SLAB	PAINT	-



MUMBAI PROJECT

SITE PLAN & DETAIL DRAWINGS



DATA CENTER

MUMBAI PROJECT

3

SITE PLAN

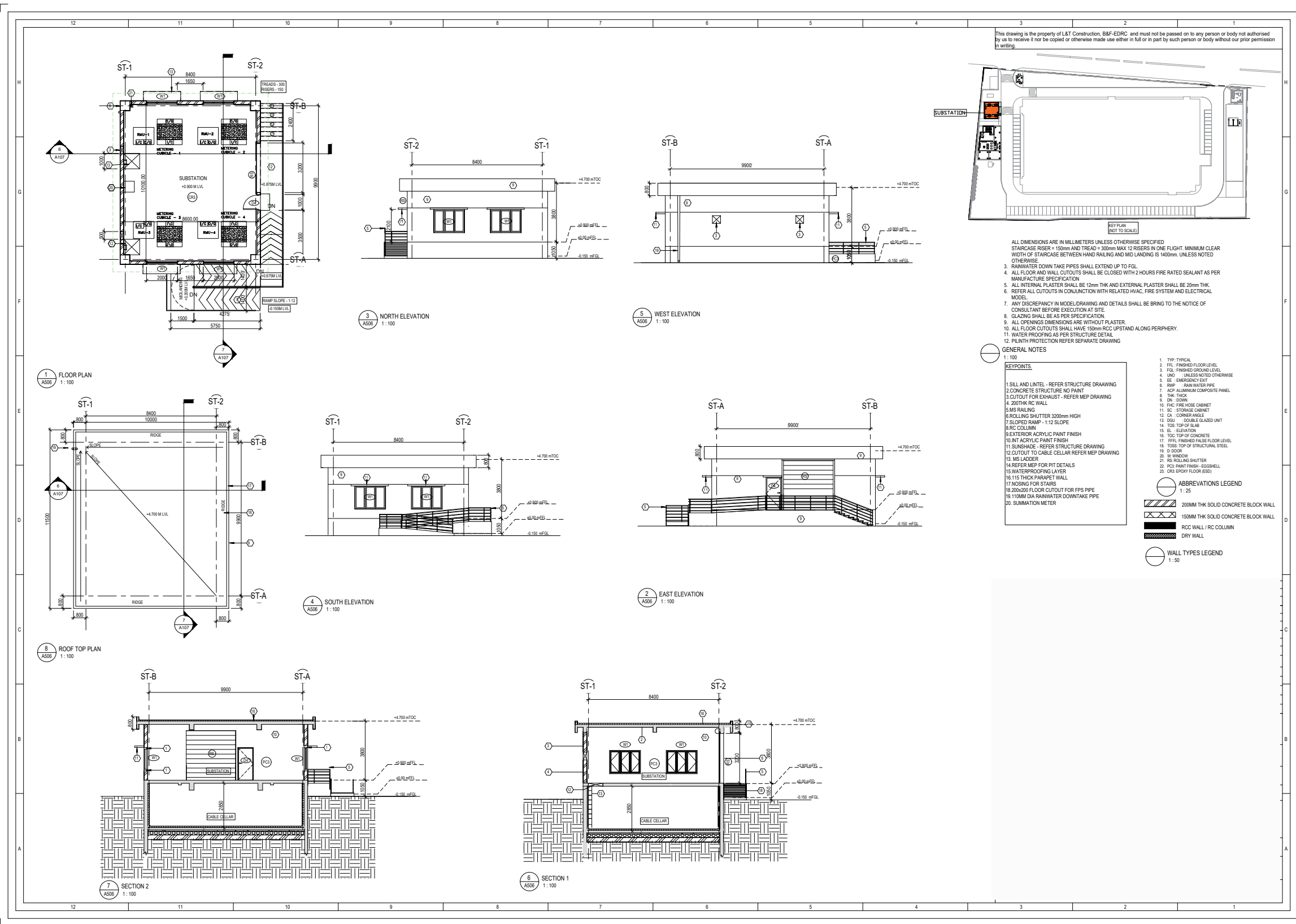


DATA CENTER

MUMBAI PROJECT

3

SUBSTATION

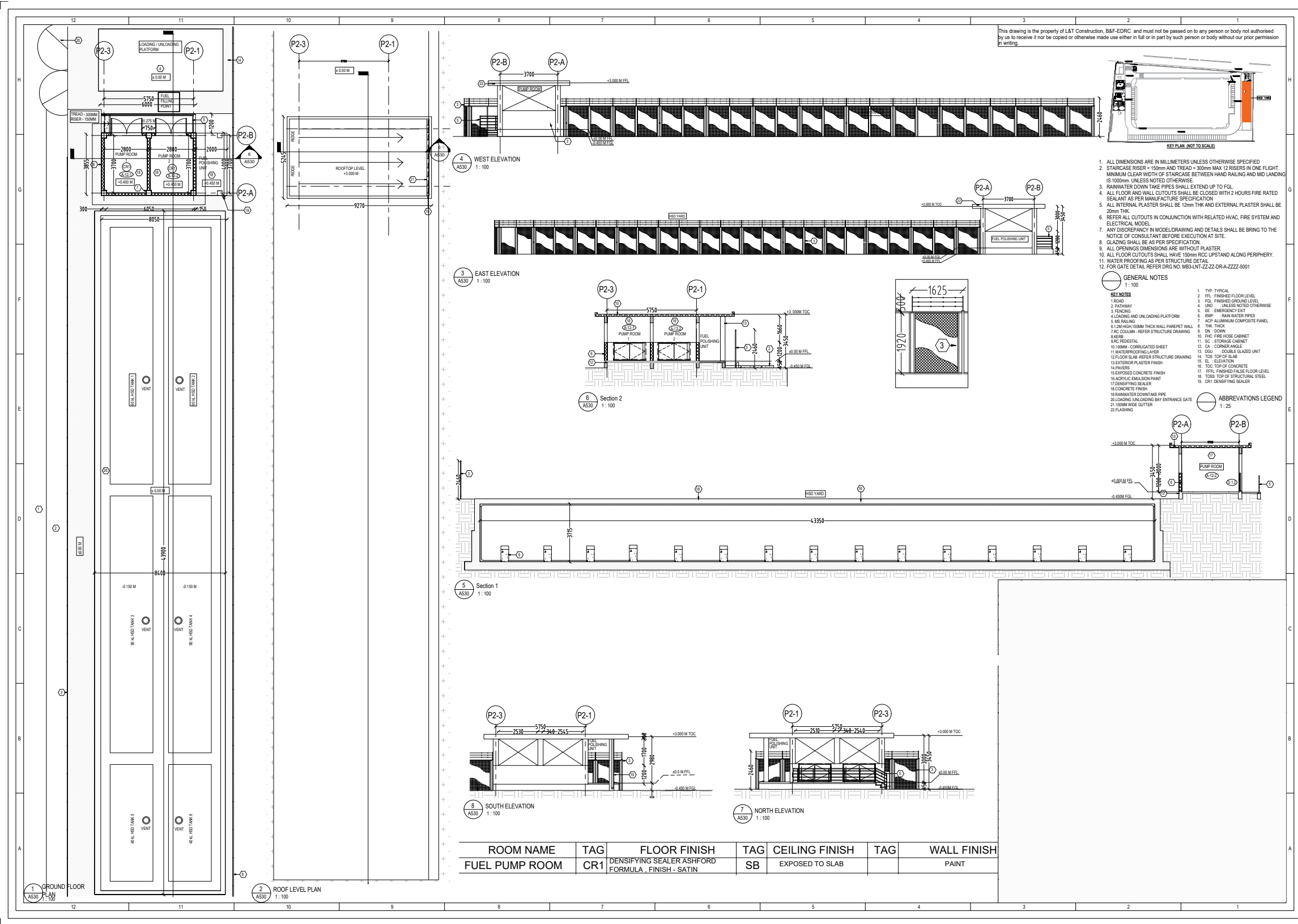


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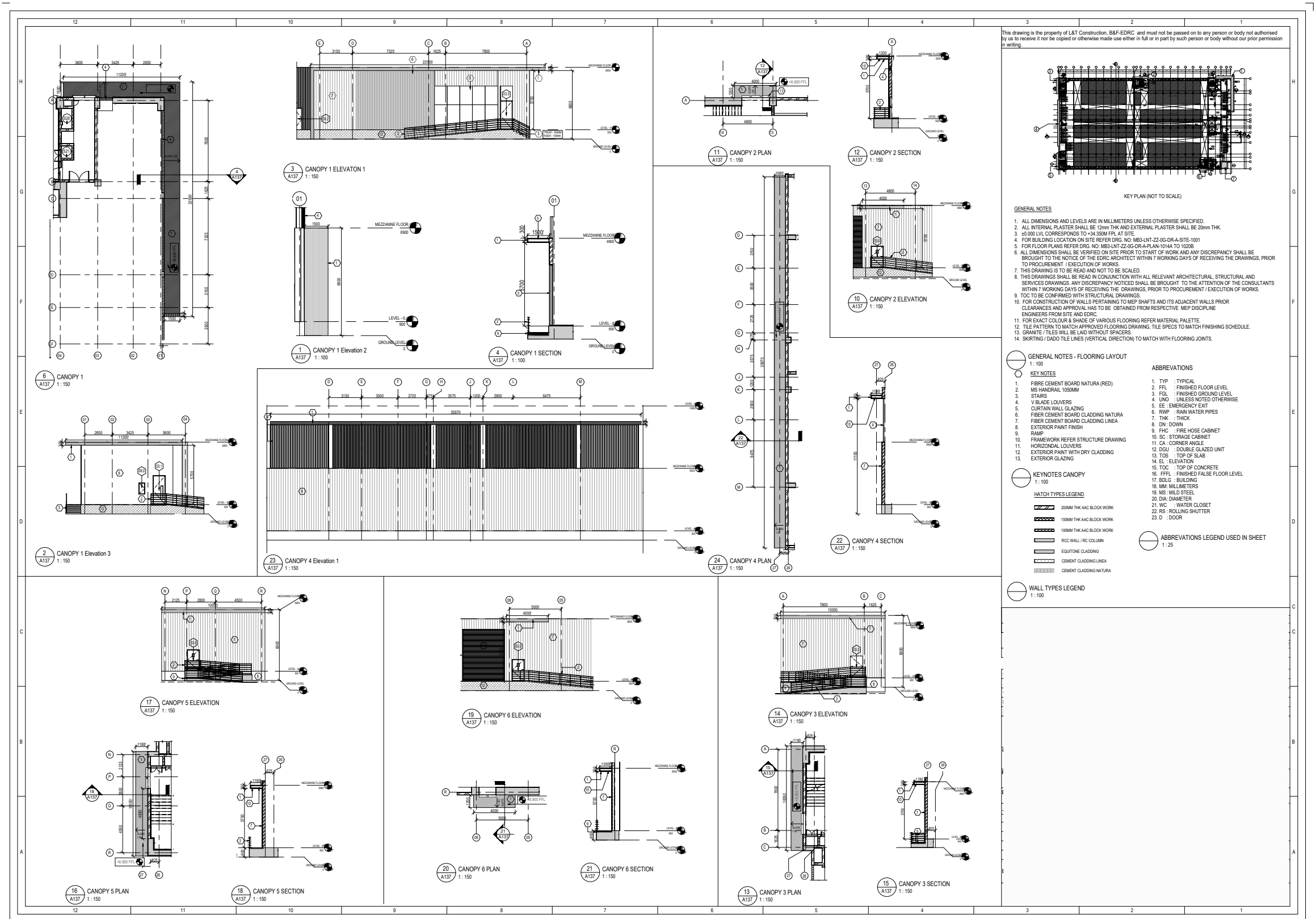
MUMBAI PROJECT

3

HSD YARD



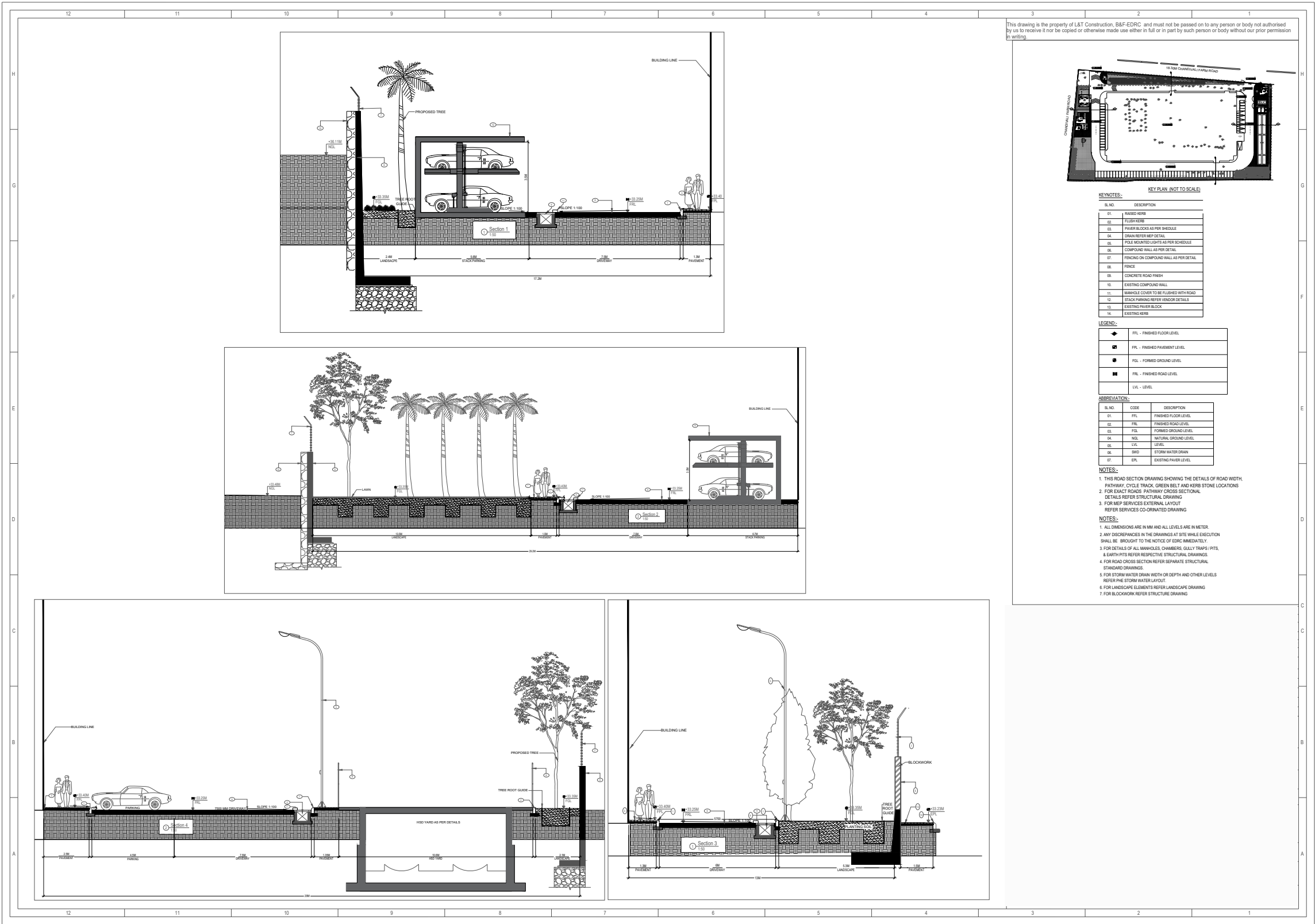
CANOPY DETAILS



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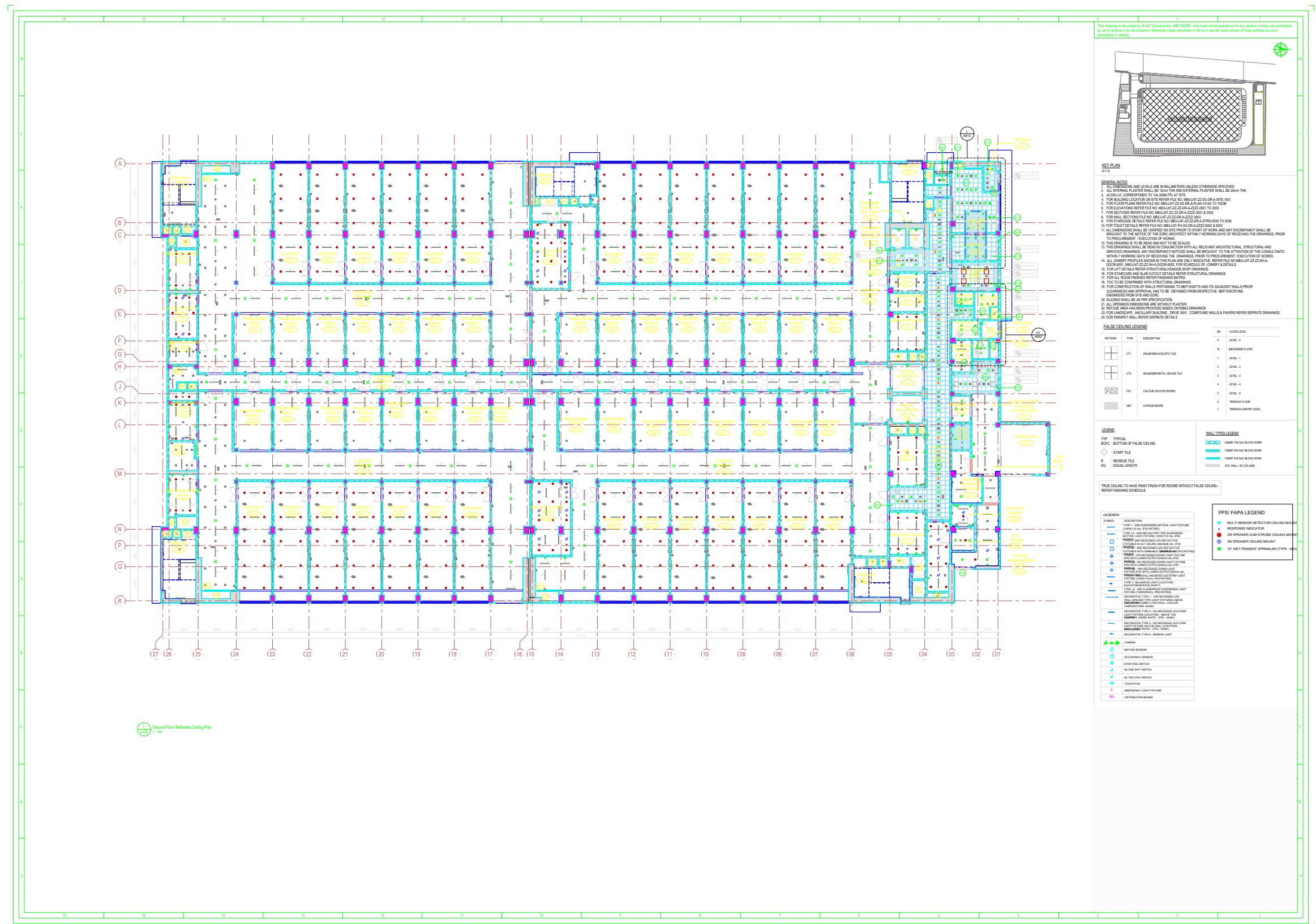
MUMBAI PROJECT

ROAD SECTION



A graphic consisting of two horizontal bars. The top bar is light brown and contains the text "DATA CENTER" in a dark grey, sans-serif font. The bottom bar is light grey and contains the text "MUMBAI PROJECT" in a dark grey, sans-serif font. Above the top bar, there is a row of small, dark grey dots. Below the bottom bar, there is a row of small, dark grey dots.A graphic consisting of two horizontal bars. The top bar is light brown and contains the text "DATA CENTER" in a dark grey, sans-serif font. The bottom bar is light grey and contains the text "MUMBAI PROJECT" in a dark grey, sans-serif font. Above the top bar, there is a row of small, dark grey dots. Below the bottom bar, there is a row of small, dark grey dots.

GROUND FLOOR RCP

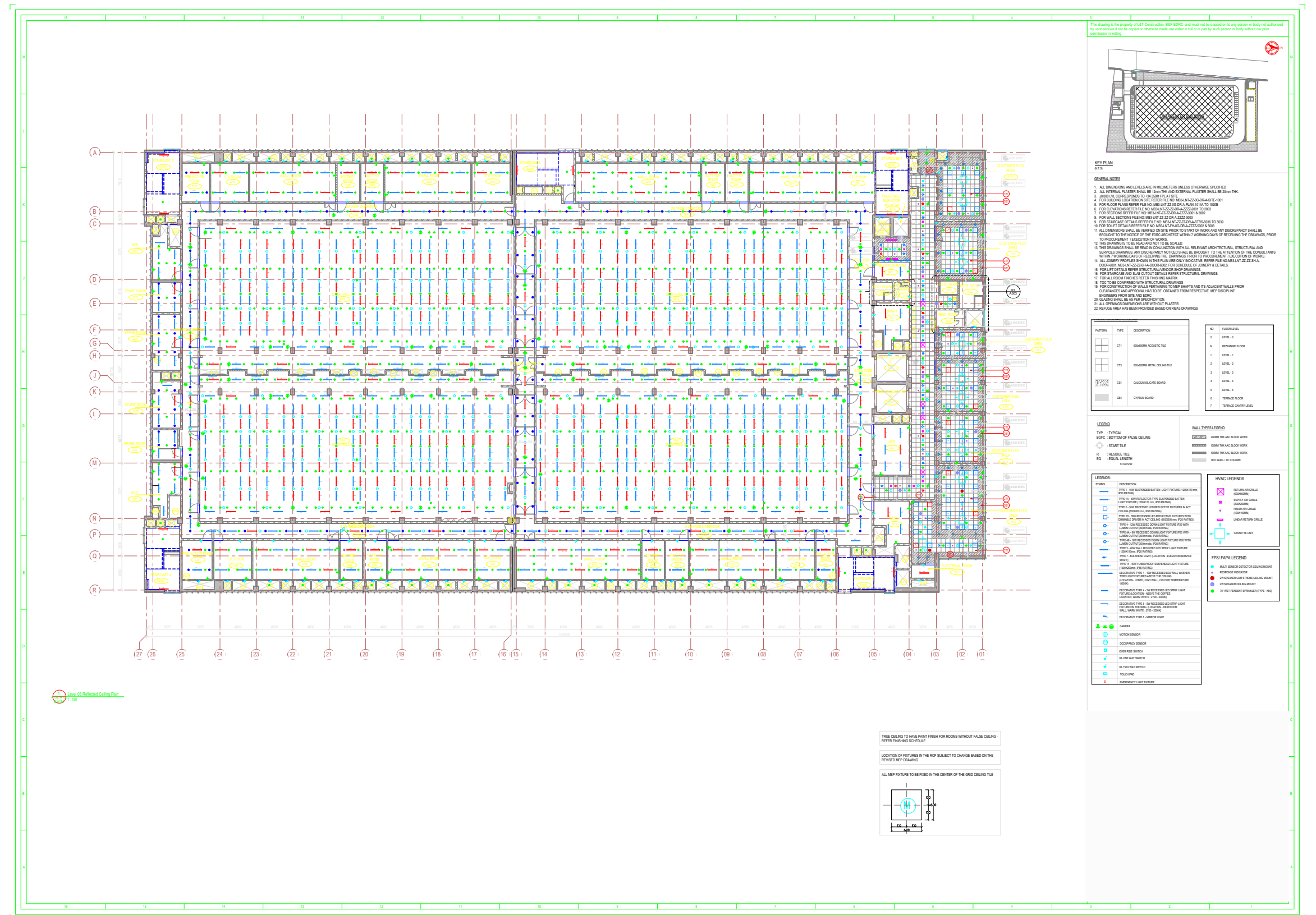


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LEVEL 3 RCP...

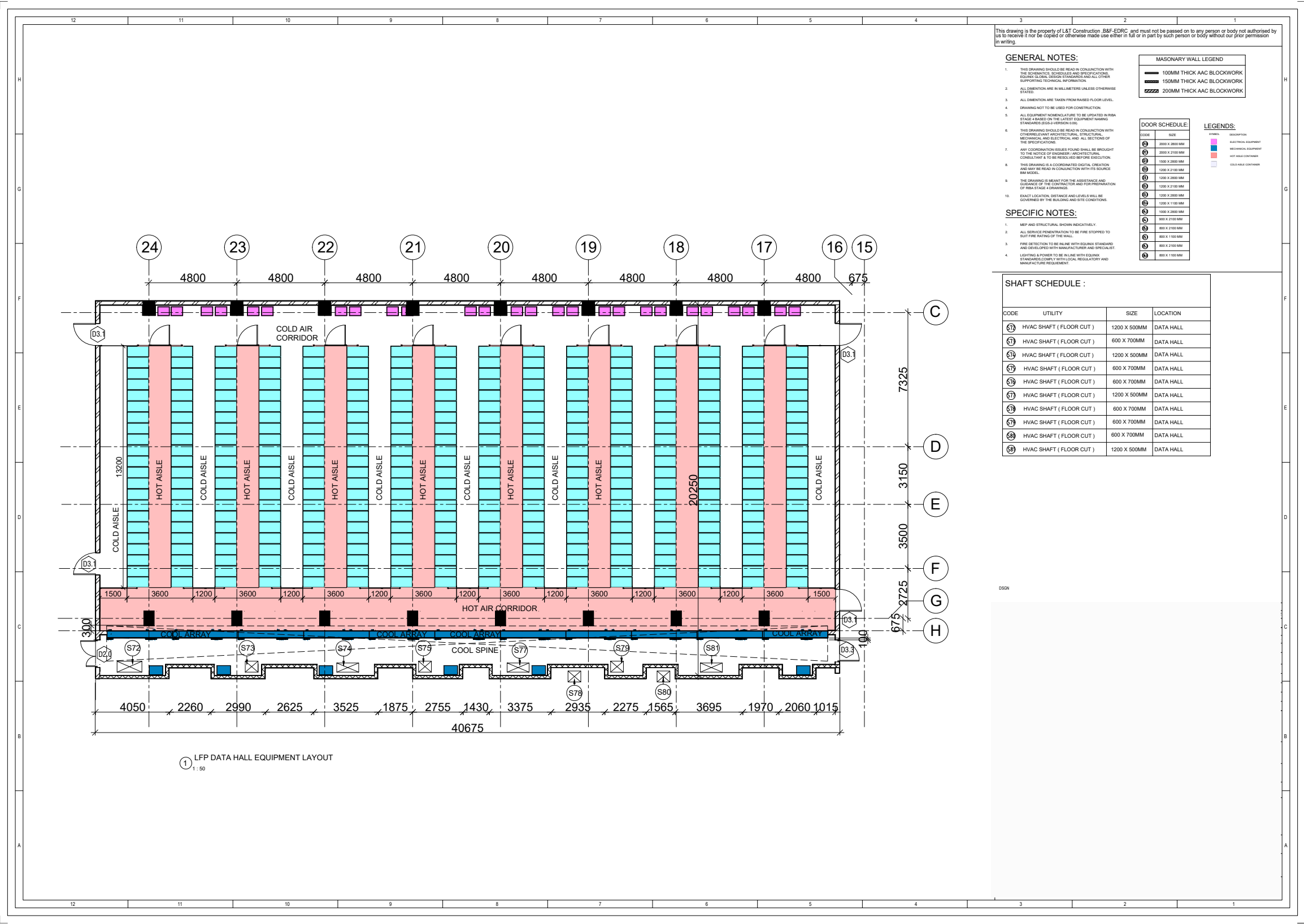


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SERVER RACK
ARRANGEMENT- LFP

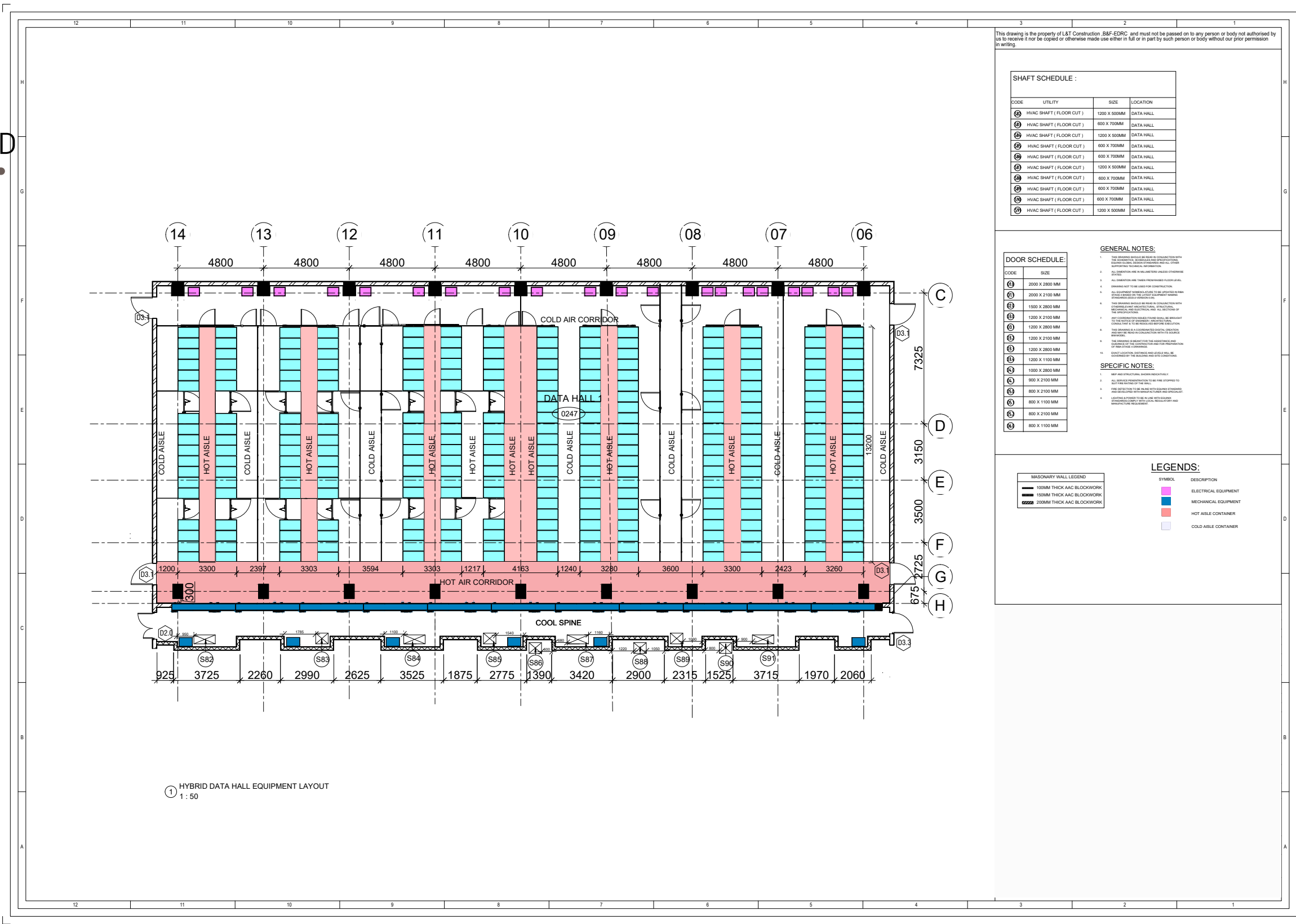


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SERVER RACK
ARRANGEMENT - HYBRID

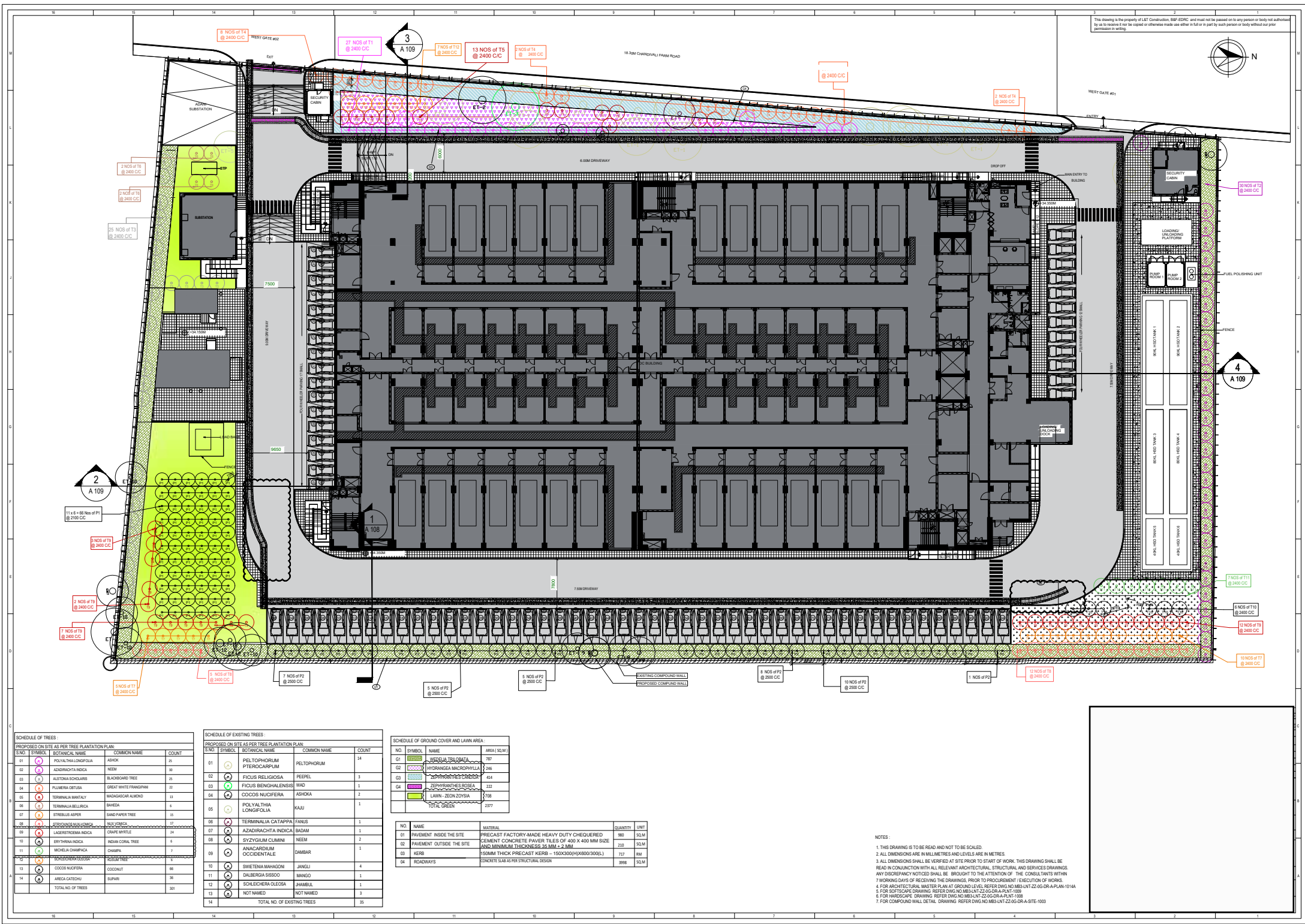


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MUMBAI PROJECT

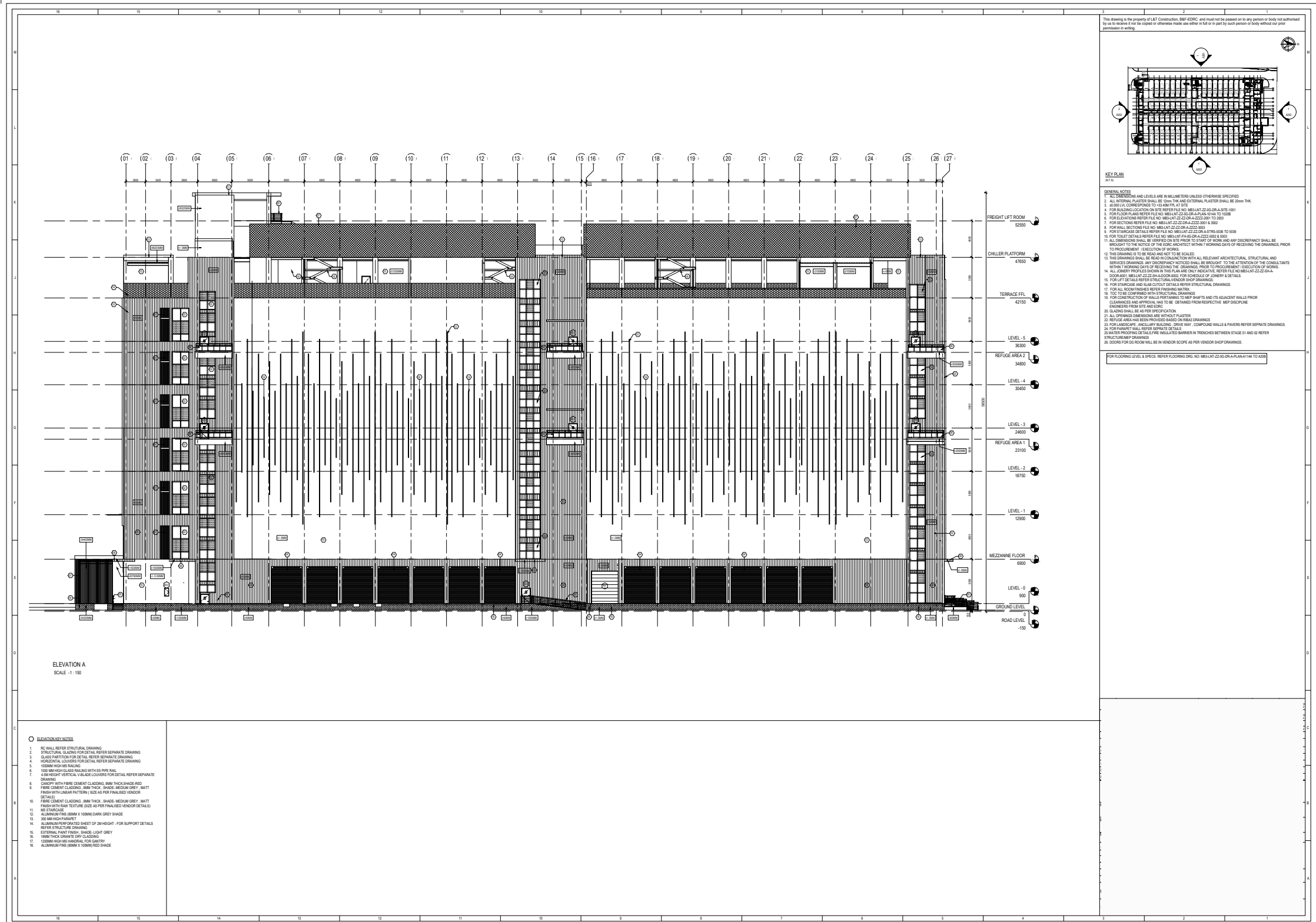
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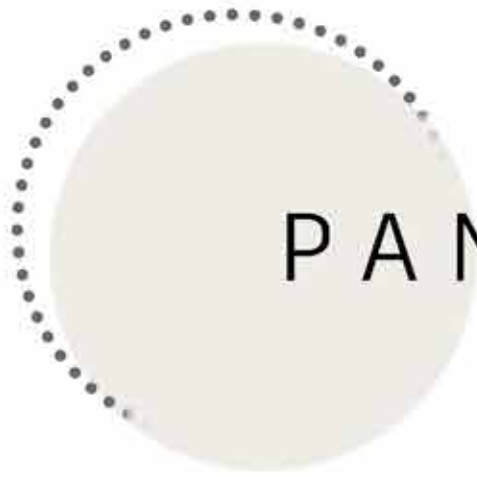
LANDSCAPE
MASTERPLAN



A graphic consisting of two horizontal bars. The top bar is light brown and contains the text "DATA CENTER" in a dark grey, sans-serif font. The bottom bar is light grey and contains the text "MUMBAI PROJECT" in a dark grey, sans-serif font. Above the top bar, there is a row of dark grey dots. Below the bottom bar, there is a row of dark grey dots.

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PANVAL PROJECT

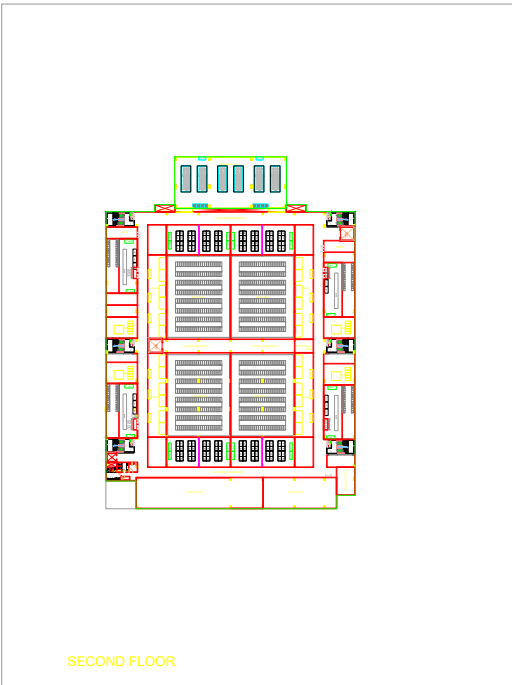
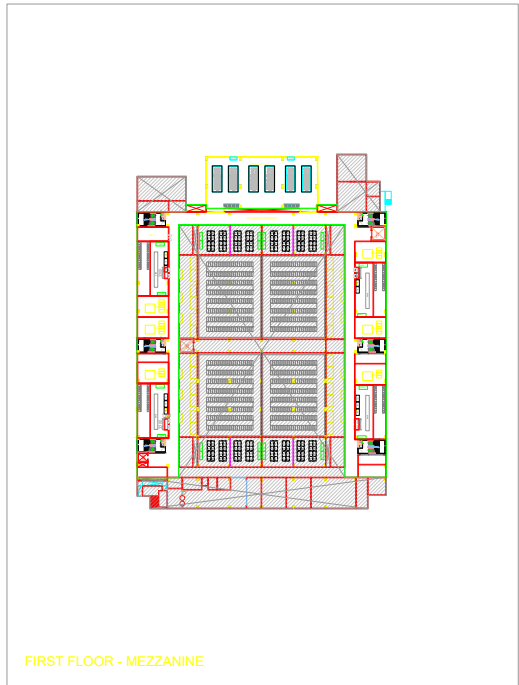
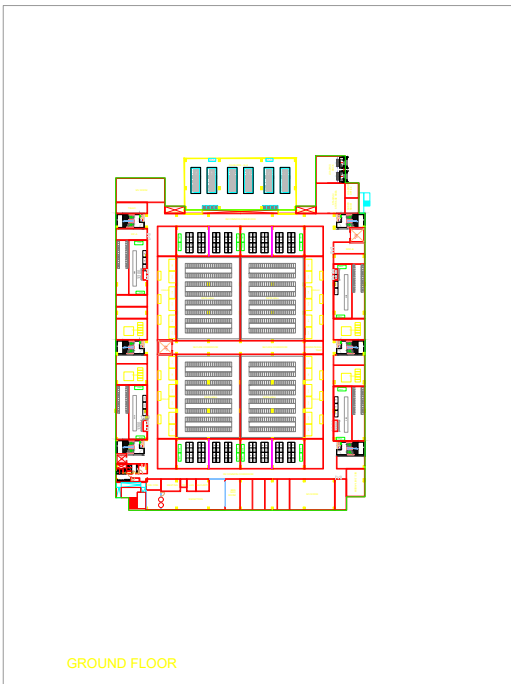
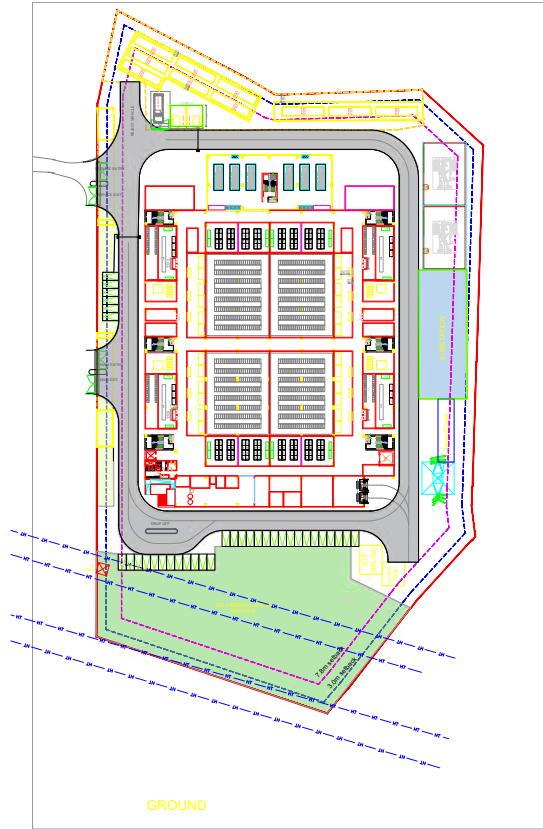
AREA STATEMENT



DATA CENTER

PANVAL PROJECT

AREA STATEMENT - OPTION 1



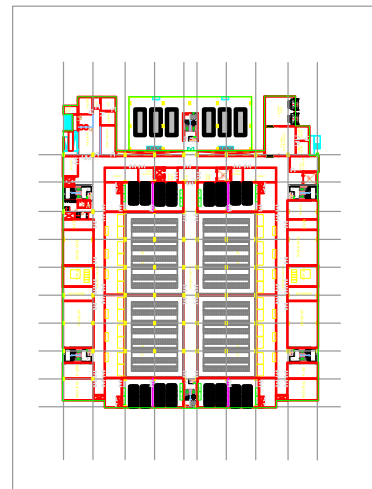
S.No		Floors	Height (in m)	Sqm	Sqft
A	DC Building				
1	4 x 1.5MW DC Halls	GF	6	7,503	80,762
2	Service Area	GF Mezzanine	3	2,397	25,801
3	1 x 3MW DC Halls	I Floor	6	7,503	80,762
4	Service Area	I Floor Mezzanine	3	2,397	25,801
5	1 x 3MW DC Halls	II Floor	6	7,094	76,360
6	Service Area	II Floor Mezzanine	3	2,397	25,801
7	1 x 3MW DC Halls	III Floor	6	7,094	76,360
8	Service Area	III Floor Mezzanine	3	2,397	25,801
9	2 x 3MW DC Halls	IV Floor	6	7,094	76,360
10	Service Area	IV Floor Mezzanine	3	2,397	25,801
11		Terrace	0	-	-
		SubTotal	46.2	48,273	519,611
B	Substation Buildings				-
1	GIS	G+2	14.1	599	6,448
2	HSD Pump Room	G+1		65	698
		SubTotal		664	7,145
C	DG Building				-
1	DG Sets and Panel Room	GF	6	555	5,974
2		I Floor	6	568	6,117
3		II Floor	6	568	6,117
4		III Floor	6	568	6,117
5		IV Floor	6	568	6,117
6		V Floor	6	568	6,117
		SubTotal	37.2	3,397	36,560
D	Misc. Buildings				-
1	STP, WTP, Pump, Waste	GF		426	4,585
		SubTotal		426	4,585
E	Security Office and Rooms				-
1		GF	3.45	103	1,107
		SubTotal	3.45	103	1,107
	Total			52,862	569,008

DATA CENTER

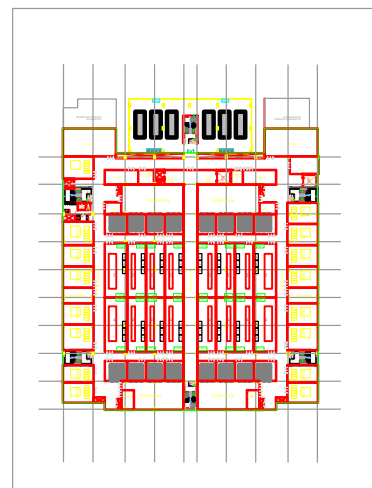
PANVAL PROJECT

4

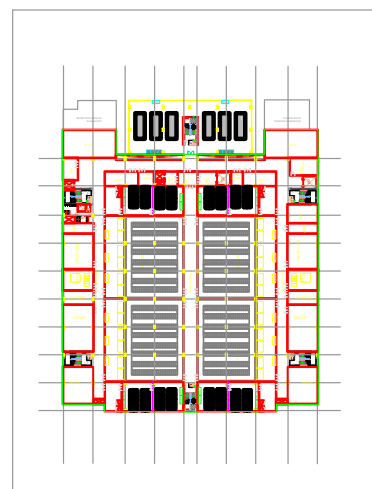
AREA STATEMENT - OPTION 2



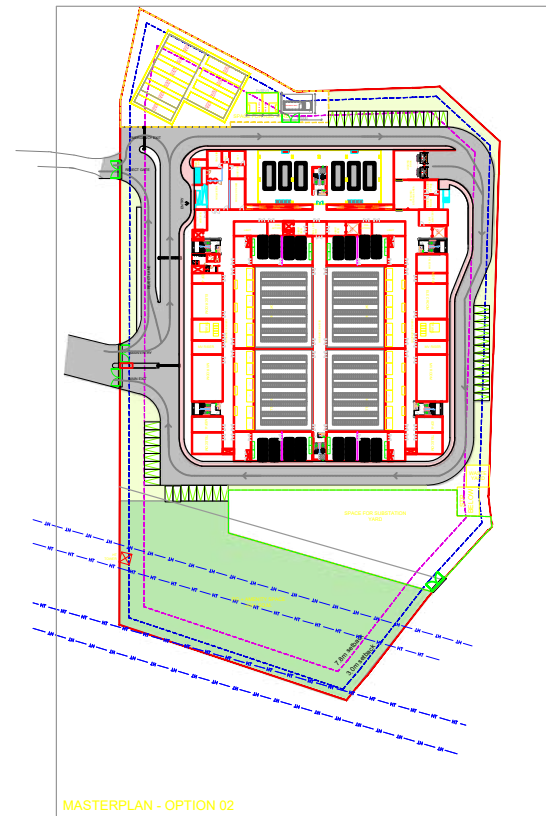
GROUND FLR - OPTION 02



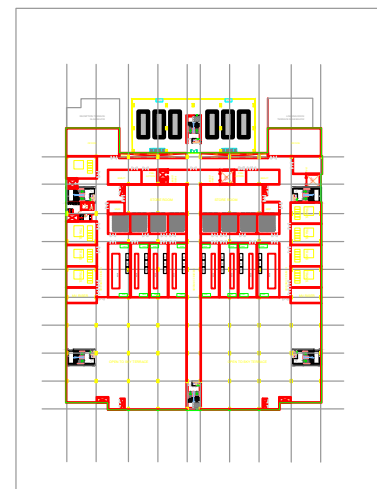
FIRST & FOURTH FLR - OPTION 02



2ND, 3RD, 5TH FLR - OPTION 02



MASTERPLAN - OPTION 02



SEVENTH FLR - OPTION 02

		AREA*	
DC	Floors	Sqm	Sqft
4 X DC Hall	GF	6,933	74,627
Tech./Service Floor	I Floor	6,750	72,657
1 X DC Hall	II Floor	6,750	72,657
1 X DC Hall	III Floor	6,750	72,657
Tech./Service Floor	IV Floor	6,750	72,657
1 X DC Hall	IV Floor	6,750	72,657
2 X DC Hall	VI Floor	6,750	72,657
Tech./Service Floor	VII Floor	6,750	72,657
	Terrace	1,307	14,067
SubTotal		55,490	597,293
Substation			-
GIS	G+2	1,789	19,257
HSD Pump Room	G+1	65	695
SubTotal		1,854	19,952
DG Building			-
DG Sets and Panel Room	GF	657	7,072
	I Floor	657	7,072
	II Floor	657	7,072
	III Floor	657	7,072
	IV Floor	657	7,072
	V Floor	657	7,072
SubTotal		3,942	42,432
Misc			-
STP, WTP, Pump, Waste	GF	448	4,822
SubTotal		448	4,822
Security Rooms			-
	GF	96	1,033
SubTotal		96	1,033
Total		61,830	665,533



HOSPITAL PROJECT

LANDSCAPE QUANTIFICATION

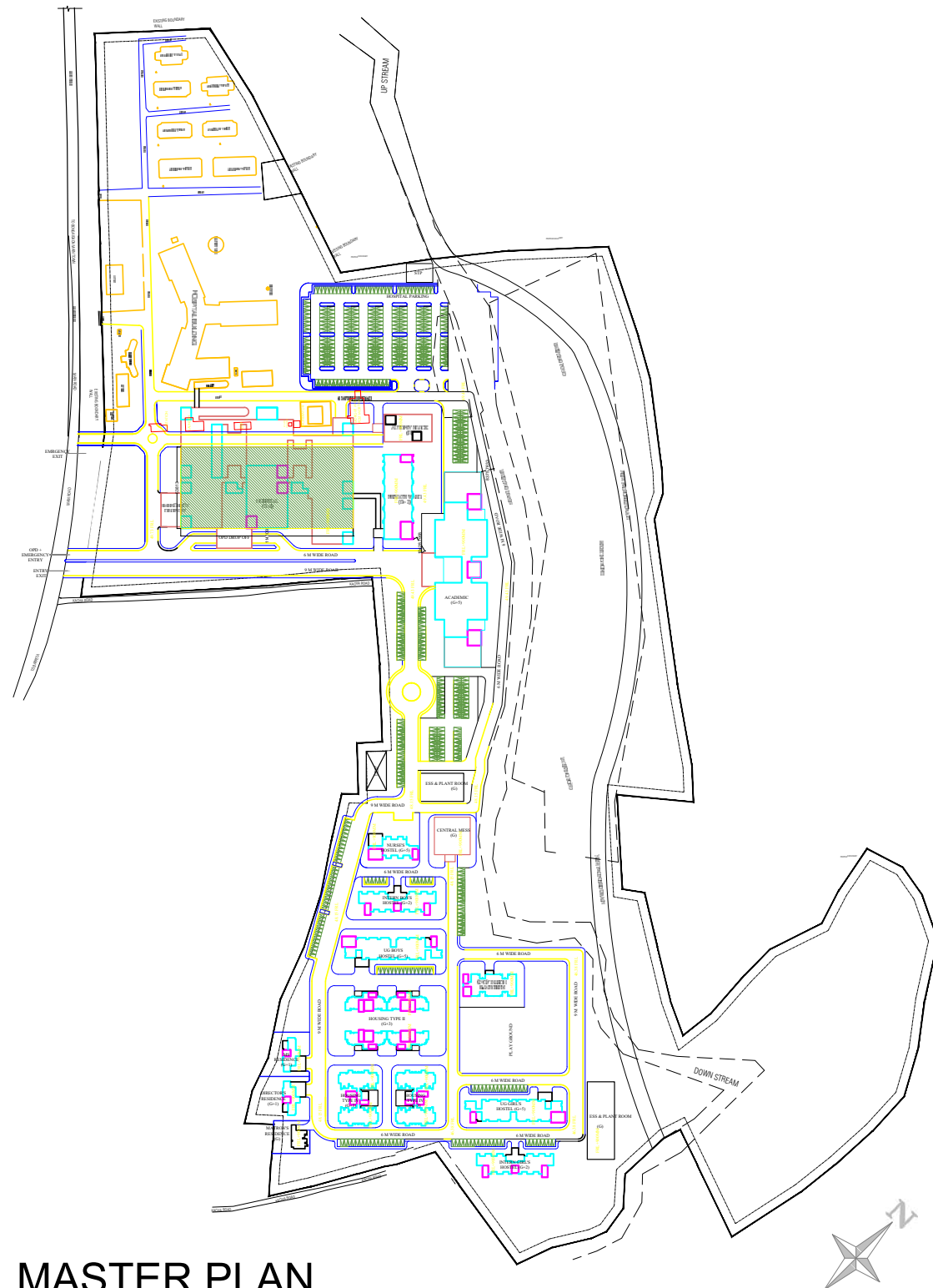


HOSPITAL

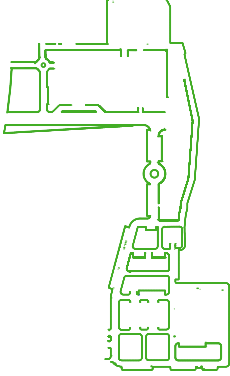
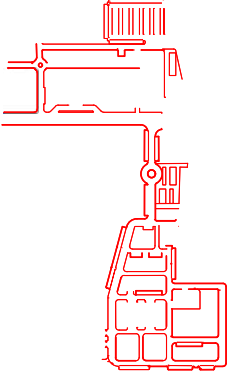
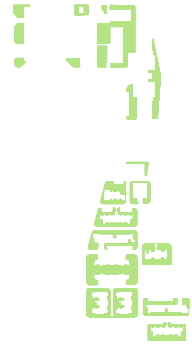
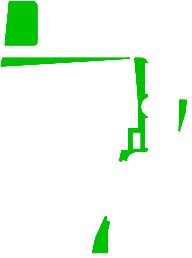
BONGAIGOAN PROJECT

5

LANDSCAPE QUANTIFICATION



MASTER PLAN

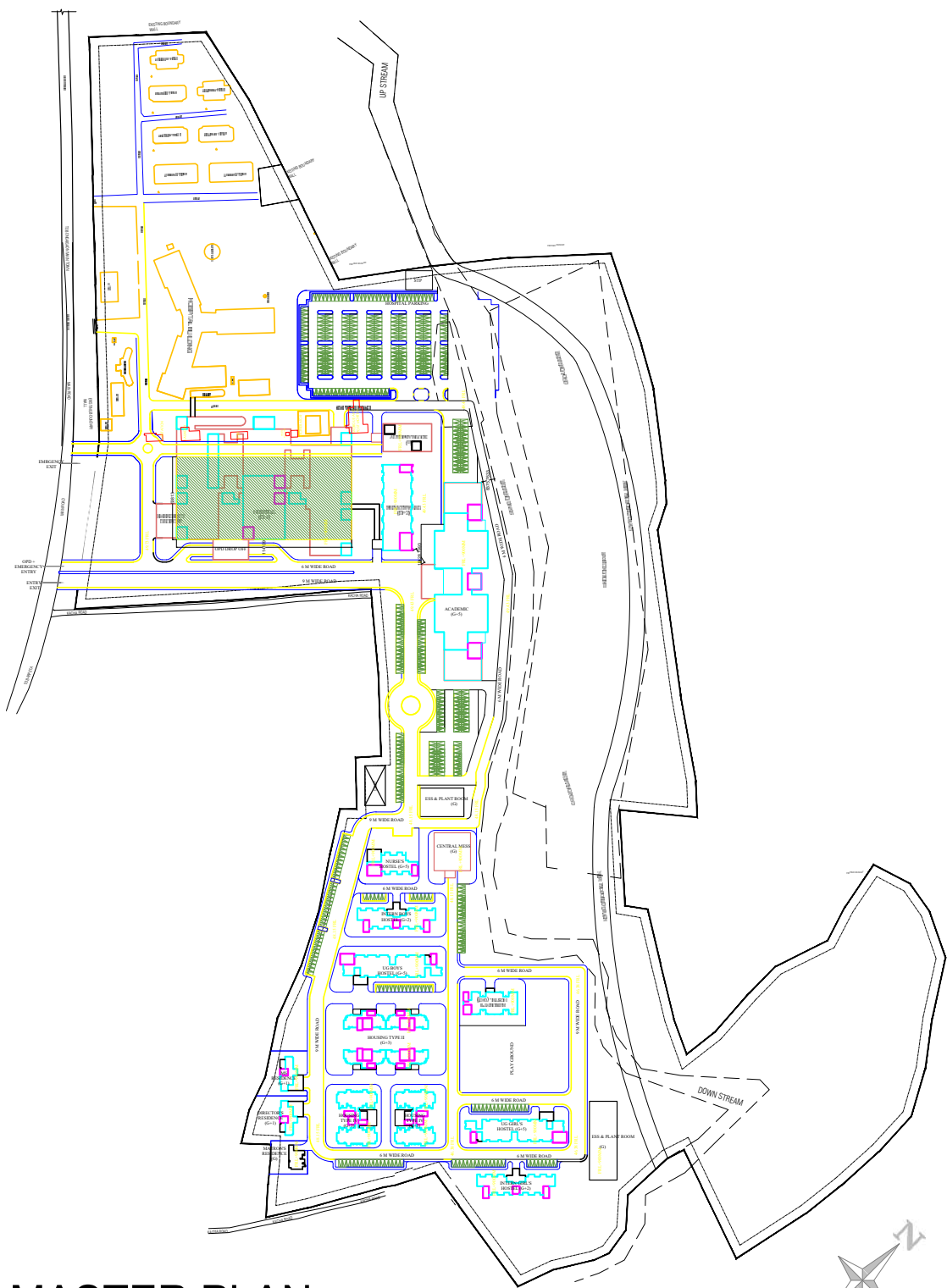
 HEAVY DUTY PAVERS 8131 sqm	 HEDGE BESIDE THE FOOTPATH Total Area: 2833 SQM	 FLUSH KERB Total Length: 12214/2 =6107 M
 LS AROUND BUILDINGS - 11990 Sqm	 PLAYGROUND -3956 sqm	 MAINTAINED GREEN Total Area = 6930 SQM

HOSPITAL

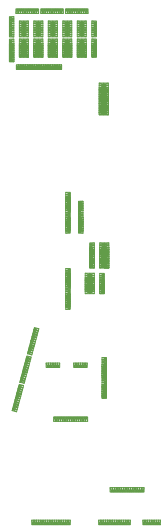
BONGAIGOAN PROJECT

5

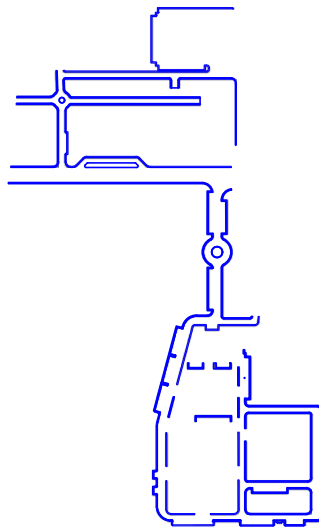
LANDSCAPE QUANTIFICATION



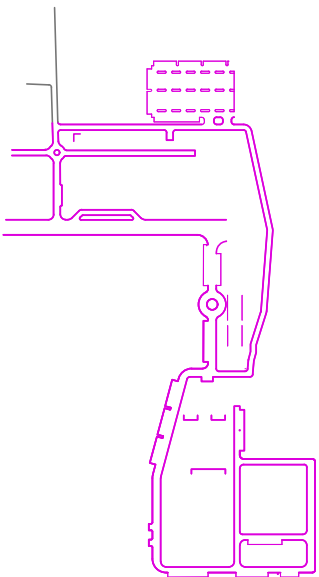
MASTER PLAN



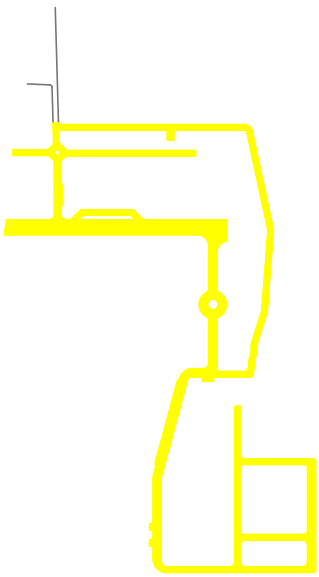
GRASS PAVERS - PARKING - 7159 SQM



FOOTPATH - 2341 sqm



RAISED KERB
Total Length: $12230/2 = 6115$ M



ROAD - 17854sqm



OFFICE PROJECT

ELEVATION AND FACADE OPTIONS



OFFICE

CHENNAI PROJECT

6

OFFICE BUILDING



OPTION 1



OPTION 3



OPTION 2



OPTION 4

.....
OFFICE

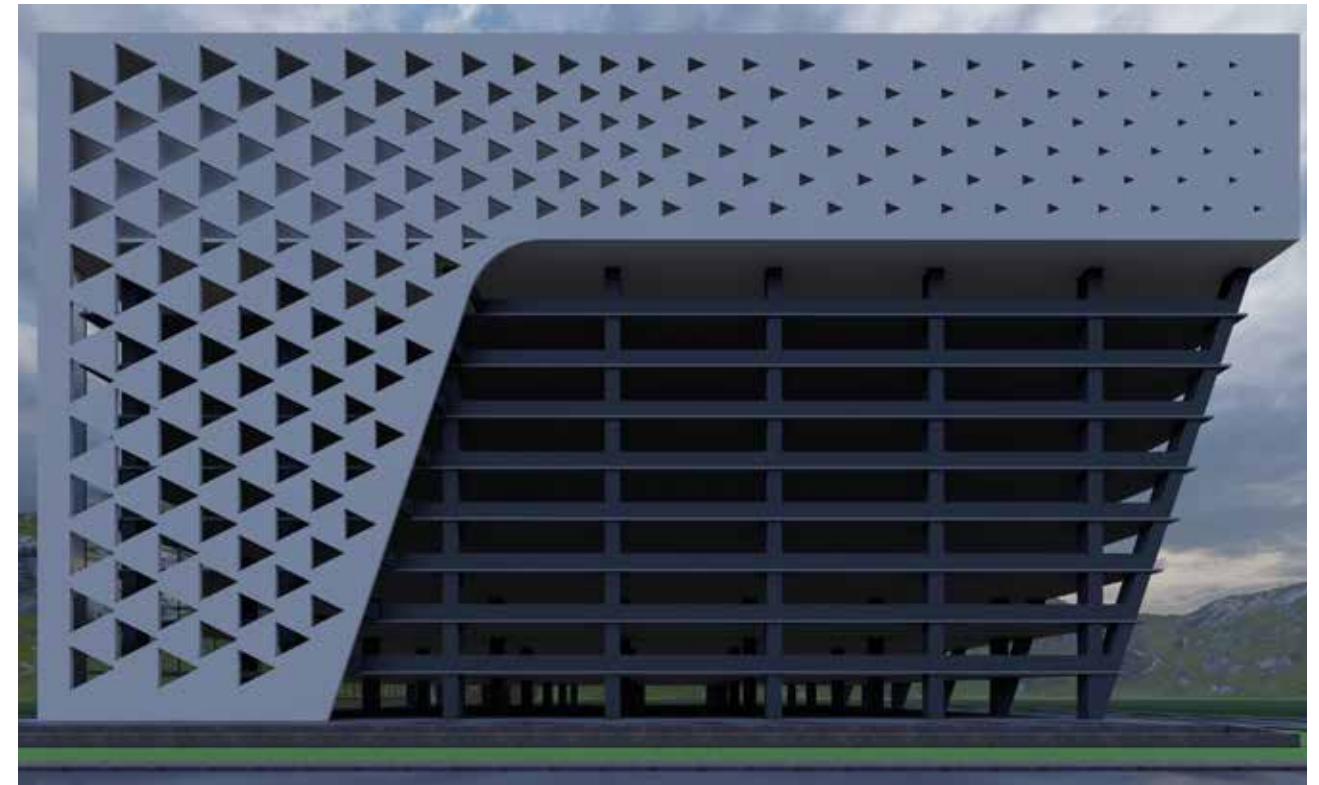
CHENNAI PROJECT
.....

6

R&D CUM PARKING BUILDING
.....



OPTION 1



OPTION 3



OPTION 2



OPTION 4



RESIDENTIAL PROJECT

INTERIOR RENDERS

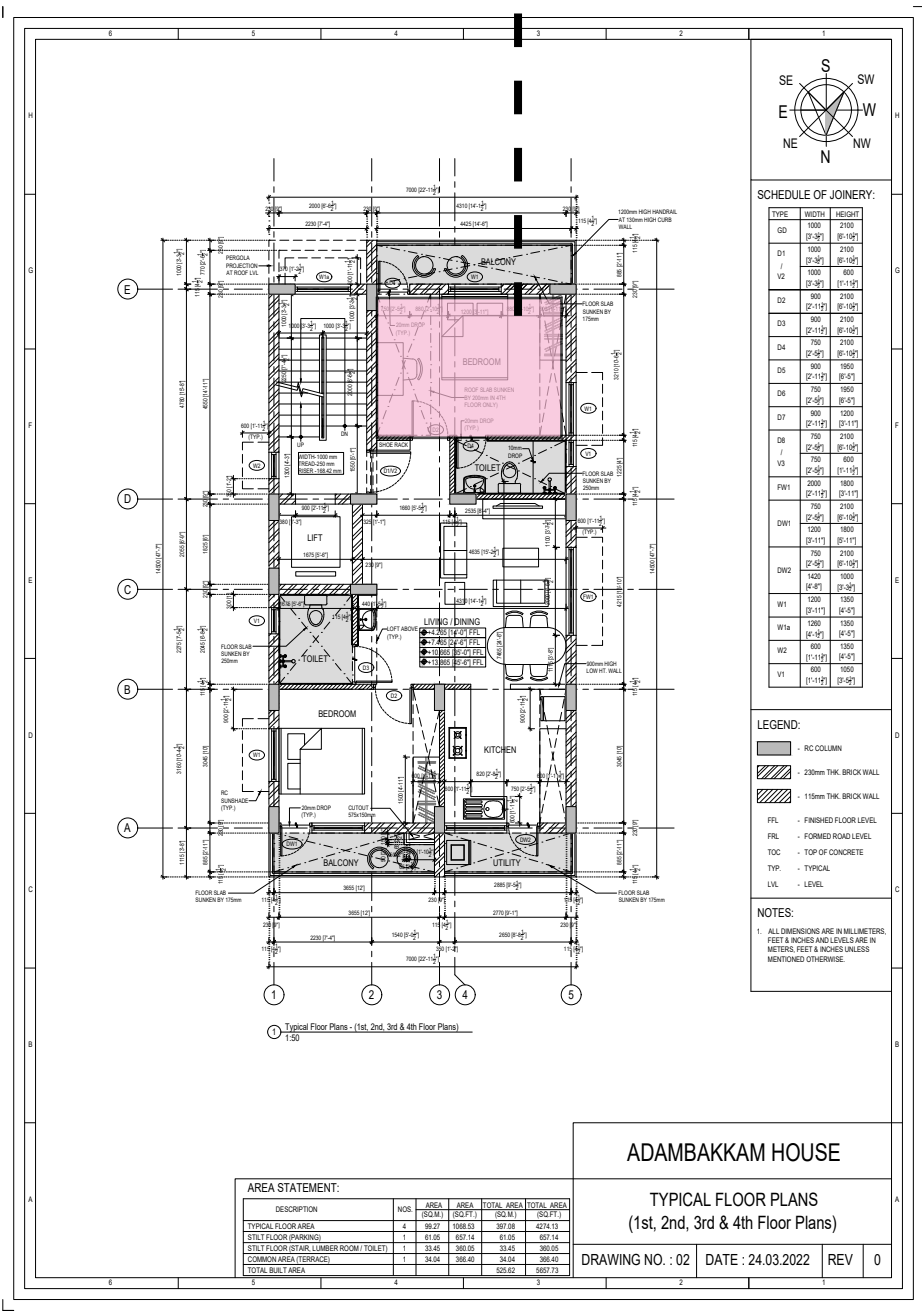


RESIDENTIAL BUILDING

ADAMBAKKAM PROJECT

7

BEDROOM INTERIOR RENDERS



VIEW 1

VIEW 2





SITE VISIT

3D PRINTING HOUSE & APARTMENTS



SITE VISIT

3D PRINTING PROJECT

8



SITE VISIT

APARTMENT PROJECT

8

