



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with “A” grade by NAAC | 12B Status by UGC | Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119

www.sathyabama.ac.in

SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
PRACTICAL TRAINING PORTFOLIO (SAR4063)
DEC 2022

Name of the Student : Vinoth Kannan. P

Batch : **2018- 2023**

Reg No. : 38210077

Semester : **X**



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DEPARTMENT OF ARCHITECTURE

VIVA-VOCE EXAMINATION

This is to certify that the practical training SAR 4063 is the work of Vinoth Kannan. P who had undergone training in L&T Construction, Manapakkam has been monitored by the continuous assessment during January 2023 to May 2023

Dr. Devyani Gangopadhyay
DEAN

Submitted for Viva voce Examination held on 9 June 2023.

Internal Examiner

External Examiner



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DECLARATION

I, Vinoth Kannan. P hereby declare that the Training Report **JANUARY 2023 to MAY 2023** done by me under the guidance of **Ar J. Suresh Kumar** is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 17/05/2023

PLACE : CHENNAI

A handwritten signature in black ink, appearing to read 'P. V.', is written above the signature line.

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **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 of who were helpful in many ways for the completion of the project.

I also wish to thank **Ar. J SURESH KUMAR**, for the experience of interning at their firm.

CONFIRMATION LETTER



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/681-2022

06 January 2023

Head of the Department,
Sathyabama Institute of
Science and Technology
Chennai.

Dear Sir/Madam,

Sub: Project Training

This has reference to your letter dated **05** December 2022 regarding Project Training for your student **Mr. Vinoth Kannan P (38210077)**. As a special case, we agree to admit his for project Training from **09 January 2023 to 31 May 2023**.

Please advise his to carry 3 Passport size photographs, copy of his College ID card, 3 Adhaar card copy and Original Bonafide 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

MONTHLY REPORT 1&2



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PROFESSIONAL PRACTICAL TRAINING REPORT 2023

(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

- Name of the Office / Organization : Larsen & Toubro Limited Construction (L&T)
- Address & Contact Number : P.B. No: 979, Mount Poonamallee Road Manapakkam Chennai-89 Tel: +91-44-22526000
- Name of the Student : P. Vinodh Kannan
- Duration : From 09/01/2023 To 03/02/2023
- Total No. of days : 24
- Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension		✓			
Participation in the Office		✓			
Reading of Drawings		✓			
Presentation Techniques			✓		
Model Making					✓
Understanding of Construction Details			✓		
Drafting Skills (Manual/Computer)			✓		
Site Supervision / Client Interaction Skills					✓
Time Schedule Adherence		✓			
Other Computer Skills		✓			
Files and Office Maintenance		✓			
Coordination with other Consultants					✓
Overall Grading*		75			

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month*

7. Any other Remarks:

Signature of the Head of the Office / Organization (With Seal)

J. SURESH KUMAR
ARCHITECT
COUNCIL OF ARCHITECTURE
REGN. NO: CA/2007/40337



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PROFESSIONAL PRACTICAL TRAINING REPORT 2023

(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

- Name of the Office / Organization : Larsen & Toubro Limited Construction (L&T)
- Address & Contact Number : P.B. No: 979, Mount Poonamallee Road Manapakkam Chennai-89 Tel: 044-22526000
- Name of the Student : P. Vinodh Kannan
- Duration : From 10/02/2023 To 03/03/2023
- Total No. of days : 16 (40 days still now)
- Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension		✓			
Participation in the Office		✓			
Reading of Drawings			✓		
Presentation Techniques			✓		
Model Making					✓
Understanding of Construction Details			✓		
Drafting Skills (Manual/Computer)		✓			
Site Supervision / Client Interaction Skills					✓
Time Schedule Adherence		✓			
Other Computer Skills		✓			
Files and Office Maintenance		✓			
Coordination with other Consultants					✓
Overall Grading*		75			

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month*

7. Any other Remarks:

Signature of the Head of the Office / Organization (With Seal)

J. SURESH KUMAR
ARCHITECT
COUNCIL OF ARCHITECTURE
REGN. NO: CA/2007/40337

MONTHLY REPORT 3&4



PROFESSIONAL PRACTICAL TRAINING REPORT 2023
(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

1. Name of the Office / Organization : Larsen & Toubro Limited construction (L&T)
2. Address & Contact Number : PB NO: 479, Mount Ponnammalle Road marupakkar Chennai: 89 Tel: 044 - 225 26000
3. Name of the Student : P. Vinodh Kannan
4. Duration : From 03/03/2023 To 18/04/2023
5. Total No. of days : 36 (76 days still now)
6. Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension		✓			
Participation in the Office		✓			
Reading of Drawings		✓			
Presentation Techniques		✓			
Model Making					✓
Understanding of Construction Details		✓			
Drafting Skills (Manual/Computer)		✓			
Site Supervision / Client Interaction Skills					✓
Time Schedule Adherence		✓			
Other Computer Skills		✓			
Files and Office Maintenance		✓			
Coordination with other Consultants					
Overall Grading*		85.			

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month*

7. Any other Remarks:

Signature of the Head of the Office / Organization (With Seal)

18/4/2023.
J. SURESH KUMAR
ARCHITECT
COUNCIL OF ARCHITECTURE
REGN. NO: CA/2007/40337



PROFESSIONAL PRACTICAL TRAINING REPORT 2023
(Monthly Progress to be documented and submitted to the HOD by the Architect in charge of Trainee of the Organization)

1. Name of the Office / Organization : Larsen & Toubro Limited construction (L&T)
2. Address & Contact Number : P. B. NO: 479, Mount Ponnammalle Road marupakkar Chennai: 89 TEL: 044 - 225 26000
3. Name of the Student : P. Vinodh Kannan
4. Duration : From 18/04/2023 To 15/05/2023
5. Total No. of days : 18 (94 completed)
6. Evaluation of Performance Criteria shall be on

Description of works	Excellent	Good	Fair	Poor	NA
Office Culture Comprehension	✓				
Participation in the Office	✓				
Reading of Drawings		✓			
Presentation Techniques		✓			
Model Making					✓
Understanding of Construction Details	✓				
Drafting Skills (Manual/Computer)	✓				
Site Supervision / Client Interaction Skills					✓
Time Schedule Adherence	✓				
Other Computer Skills		✓			
Files and Office Maintenance	✓				
Coordination with other Consultants	✓				
Overall Grading*					

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month*

7. Any other Remarks:

Signature of the Head of the Office / Organization (With Seal)

18/4/2023.
J. SURESH KUMAR
ARCHITECT
COUNCIL OF ARCHITECTURE
REGN. NO: CA/2007/40337

BONAFIED CERTIFICATE



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Date: 5 December 2022

To whomsoever it may concern

As a part of the academic requirement and the regulations of Sathyabama Institute of Science and Technology and the Council of Architecture, our student **P.Vinoth Kannan (38210077)** is required to undergo professional training from the month of January 2023, for a minimum span of 90 working days in his X semester. The students are required to undergo training under a senior registered architect with a minimum of 5 years of professional experience.

In this regard, we request you that **P.Vinoth Kannan** may be given an opportunity to undergo training in your Architectural firm. In case the student is found to be suitable and selected for internship at your organisation, we request you to send an appointment letter to the undersigned stating that the student has been selected as a trainee in your esteemed office.

The student is required to submit a documentation report (supported with copies of work done by him, duly attested by the architect) of all the drawings and site related activities undertaken under the supervision of Principal architect at the end of training period to the institution.

Thanking you

Dr. Devyani Gangopadhyay

Dean, School of Building and Environment


J. SURESH KUMAR
ARCHITECT
COUNCIL OF ARCHITECTURE
REGN. NO: CA/2007/40337

JEAN
SCHOOL OF BUILDING & ENVIRONMENT
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Jeyapoor Nagar, Rajiv Gandhi Salai
Chennai - 600 119.

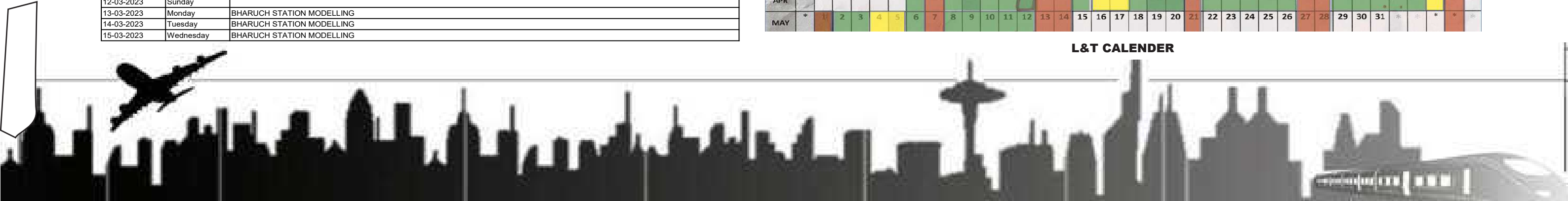
WORK DIARY

WORK DIARY		
MONTH- JANUARY		
DATE	DAY	NAME OF WORK
09-01-2023	Monday	JOINING PROCESS
10-01-2023	Tuesday	AUDITING WORKS
11-01-2023	Wednesday	AUDITING WORKS
12-01-2023	Thursday	COMPOUND WALL TYPICAL DETAIL DRAWING
13-01-2023	Friday	COMPOUND WALL TYPICAL DETAIL DRAWING
14-01-2023	Saturday	Weekend
15-01-2023	Sunday	Weekend
16-01-2023	Monday	DOUBLESIDE SLIDING ENTRANCE GATE TYPICAL DETAIL DRAWING
17-01-2023	Tuesday	-
18-01-2023	Wednesday	LOW COST 2 STOREY RESIDENCE DESIGN
19-01-2023	Thursday	LOW COST 2 STOREY RESIDENCE DESIGN
20-01-2023	Friday	CHANGES IN RESIDENCE DESIGN
21-01-2023	Saturday	FINALIZING PROCESS IN RESIDENCE DESIGN
22-01-2023	Sunday	
23-01-2023	Monday	CENTRAL TERMINAL COMPLEX PRESENTATIONS
24-01-2023	Tuesday	CENTRAL TERMINAL COMPLEX QUANTITY STUDY
25-01-2023	Wednesday	CENTRAL TERMINAL COMPLEX BILL OF QUANTITY WORK
26-01-2023	Thursday	CENTRAL TERMINAL COMPLEX BILL OF QUANTITY WORK
27-01-2023	Friday	CENTRAL TERMINAL COMPLEX BILL OF QUANTITY WORK
28-01-2023	Saturday	CENTRAL TERMINAL COMPLEX BILL OF QUANTITY WORK
29-01-2023	Sunday	Weekend
30-01-2023	Monday	SWP DETAIL DRAWING
31-01-2023	Tuesday	-
MONTH- FEBRUARY		
01-02-2023	Wednesday	AMB DETAIL DRAWING
02-02-2023	Thursday	AMB DETAIL DRAWING
03-02-2023	Friday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
04-02-2023	Saturday	Weekend
05-02-2023	Sunday	
06-02-2023	Monday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
07-02-2023	Tuesday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
08-02-2023	Wednesday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
09-02-2023	Thursday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
10-02-2023	Friday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
11-02-2023	Saturday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
12-02-2023	Sunday	Weekend
13-02-2023	Monday	CENTRAL TERMINAL COMPLEX BASEMENT 2 DESIGNING
14-02-2023	Tuesday	CENTRAL TERMINAL COMPLEX PODIUM AMPHTHITHEATRE DESIGN
15-02-2023	Wednesday	CENTRAL TERMINAL COMPLEX PODIUM AMPHTHITHEATRE DESIGN
16-02-2023	Thursday	CENTRAL TERMINAL COMPLEX PODIUM AMPHTHITHEATRE DESIGN
17-02-2023	Friday	CENTRAL TERMINAL COMPLEX PODIUM AMPHTHITHEATRE DESIGN
18-02-2023	Saturday	Weekend
19-02-2023	Sunday	
20-02-2023	Monday	AIRPORT SUPPORT FACILITY - DESIGNING
21-02-2023	Tuesday	AIRPORT SUPPORT FACILITY - DESIGNING
22-02-2023	Wednesday	AIRPORT SUPPORT FACILITY - DESIGNING
23-02-2023	Thursday	AIRPORT SUPPORT FACILITY - DESIGNING
24-02-2023	Friday	AIRPORT SUPPORT FACILITY - DESIGNING
25-02-2023	Saturday	TYPICALLY TOILET DESIGN
26-02-2023	Sunday	Weekend
27-02-2023	Monday	BHARUCH STATION LIFT DETAIL DRAWING
28-02-2023	Tuesday	BHARUCH STATION LIFT DETAIL DRAWING
MONTH- MARCH		
01-03-2023	Wednesday	BHARUCH STATION TOILET DRAWING
02-03-2023	Thursday	BHARUCH STATION TOILET DRAWING
03-03-2023	Friday	BHARUCH STATION TYPICAL TOILET DETAIL DRAWING
04-03-2023	Saturday	BHARUCH STATION FLOOR PLAN PLANNING
05-03-2023	Sunday	Weekend
06-03-2023	Monday	BHARUCH STATION FLOORING DESIGN
07-03-2023	Tuesday	BHARUCH STATION FLOORING DESIGN
08-03-2023	Wednesday	BHARUCH STATION TACTILE TILE PLANNING
09-03-2023	Thursday	BHARUCH STATION RCP DESIGN
10-03-2023	Friday	-
11-03-2023	Saturday	BHARUCH STATION RCP DESIGN
12-03-2023	Sunday	
13-03-2023	Monday	BHARUCH STATION MODELLING
14-03-2023	Tuesday	BHARUCH STATION MODELLING
15-03-2023	Wednesday	BHARUCH STATION MODELLING

16-03-2023	Thursday	BHARUCH STATION MODELLING
17-03-2023	Friday	BHARUCH STATION MODELLING
18-03-2023	Saturday	BHARUCH STATION ELEVATION
19-03-2023	Sunday	Weekend
20-03-2023	Monday	BHARUCH STATION ELEVATION
21-03-2023	Tuesday	BHARUCH STATION CLIENT CORRECTION
22-03-2023	Wednesday	ASR BUILDING LAYOUT DESIGN
23-03-2023	Thursday	ASR ELEVATION AND SECTIONS
24-03-2023	Friday	STEEL STAIRCASE DETAILS- ASR BUILDING
25-03-2023	Saturday	Weekend
26-03-2023	Sunday	
27-03-2023	Monday	GVIAL airport - tender preparation
28-03-2023	Tuesday	GVIAL presentation
29-03-2023	Wednesday	GVIAL presentation
30-03-2023	Thursday	GVIAL airport - BUILDUP AREA FOR ALL BUILDING AND PRESENTATION
31-03-2023	Friday	-
MONTH- APRIL		
01-04-2023	Saturday	CONCEPT PASSENGES CIRCULATION - photoshop
02-04-2023	Sunday	Weekend
03-04-2023	Monday	ancillary building boq
04-04-2023	Tuesday	ATC - boq
05-04-2023	Wednesday	ATC - boq
06-04-2023	Thursday	ATC - boq
07-04-2023	Friday	ancillary building boq
08-04-2023	Saturday	Weekend
09-04-2023	Sunday	
10-04-2023	Monday	ancillary building boq
11-04-2023	Tuesday	-
12-04-2023	Wednesday	-
13-04-2023	Thursday	ancillary building boq
14-04-2023	Friday	ancillary building boq
15-04-2023	Saturday	ATC - boq
16-04-2023	Sunday	Weekend
17-04-2023	Monday	Passenger terminal building - BOQ
18-04-2023	Tuesday	ancillary building boq
19-04-2023	Wednesday	ATC - boq
20-04-2023	Thursday	Passenger terminal building - BOQ
21-04-2023	Friday	Passenger terminal building- Ceiling module drawing
22-04-2023	Saturday	Weekend
23-04-2023	Sunday	
24-04-2023	Monday	Passenger terminal building- Ceiling module drawing
25-04-2023	Tuesday	Passenger terminal building- FLOORING AND CEILING FINISHES
26-04-2023	Wednesday	Passenger terminal building- FLOORING AND CEILING FINISHES
27-04-2023	Thursday	Passenger terminal building- Furniture
28-04-2023	Friday	Passenger terminal building- Furniture
29-04-2023	Saturday	-
30-04-2023	Sunday	Weekend
MONTH- MAY		
01-05-2023	Monday	Government holiday
02-05-2023	Tuesday	Air traffic control - Bill of quantities
03-05-2023	Wednesday	-
04-05-2023	Thursday	Air traffic control - Bill of quantities
05-05-2023	Friday	PTB NORTH LIGHT DESIGNING
06-05-2023	Saturday	PTB NORTH LIGHT DESIGNING
07-05-2023	Sunday	
08-05-2023	Monday	TYPICAL RAILNG DETAIL DRAWING
09-05-2023	Tuesday	TYPICAL RAILNG DETAIL DRAWING
10-05-2023	Wednesday	PTB PLANNING
11-05-2023	Thursday	Passenger terminal building- FLOORING AND CEILING FINISHES
12-05-2023	Friday	Passenger terminal building- FLOORING AND CEILING FINISHES
13-05-2023	Saturday	-
14-05-2023	Sunday	-
15-05-2023	Monday	FINAL DAY OF INTERNSHIP COMPLETION WORK

DAY\ MONTH	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON				
JAN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
FEB	*	*	*	*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
MAR	*	*	*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
APR	*	*	*	*	*	*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
MAY	*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		

L&T CALENDER



A dark silhouette of a city skyline is positioned along the bottom of the page. On the left, a small airplane is shown in flight. To the right of the skyline, a modern high-speed train is depicted. The background is a light gray gradient.

ARCHITECTURAL INTERNSHIP PORTFOLIO

VINOTH KANNAN.P
3821007

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY



L&T Construction
Buildings & Factories

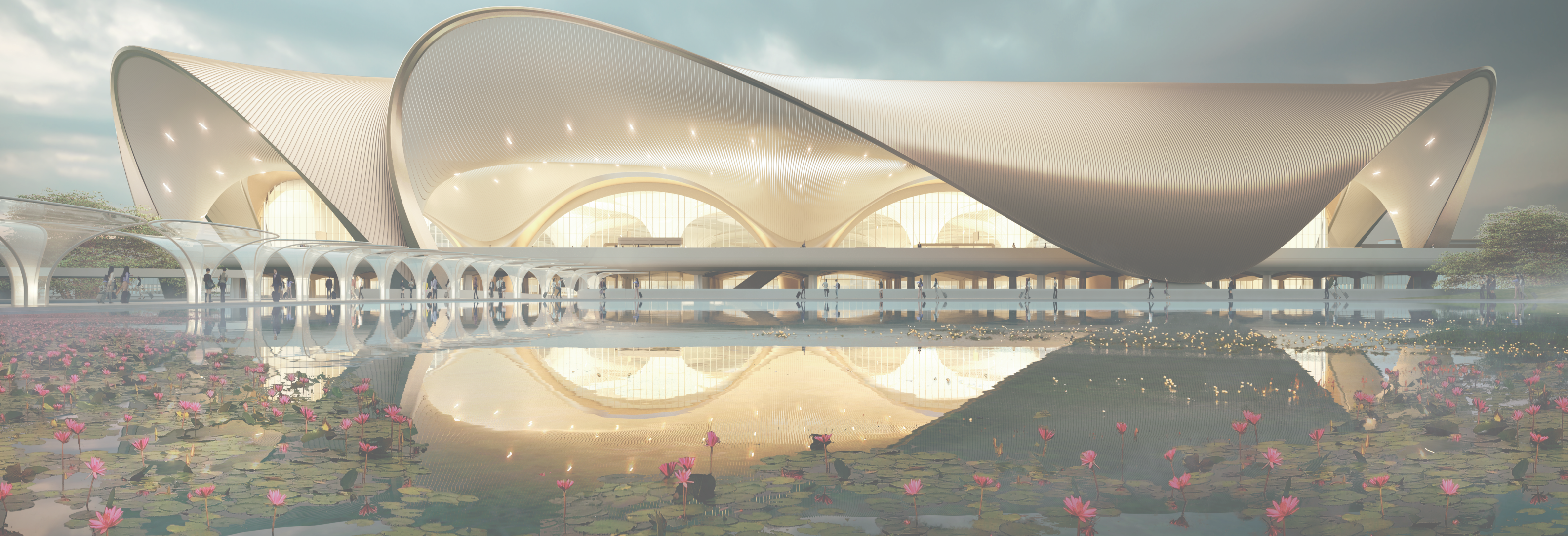
CONTEXT

01. FIRM INTRODUCTION
02. LOW COST TWO STOREY RESIDENT PROJECT
 , PUDUCHERRY
- * NAVI MUMBAI INTERNATIONAL AIRPORT PVT.
 LTD PROJECTS
03. TYPICAL DETAIL COMPOUND WALL AND DOU-
 BLE SIDE SLIDING GATE DETAIL
04. SOILED TREATMENT PLANT (STP)
05. SITE PLAN
06. FLOOR PLAN
- AIRPORT SURVEILLANCE RADAR TOWER (ASR)
07. SITE PLAN
08. GROUND AND FIRST FLOOR PLAN
09. SECOND AND THIRD FLOOR PLAN
10. ELEVATIONS
11. SECTIONS
12. VIEWS
- * CENTRAL TERMINAL COMPLEX
13. B2 LEVEL FLOOR PLAN
14. SECTIONS
15. AMPHITHEATRE PLAN
16. SECTIONS
17. VIEWS

- * MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT
 (BHURACH STATION)
18. FLOORING PLAN
19. RCP PLAN
20. TOILET DETIAL PLAN AND SECTION
21. TYPICAL DETAIL FOR TOILET
22. ELEVATIONS
- * TENDER PROJECT
23. BILL OF QUANTITIES
24. RAILING DETAILS
25. TERMINAL BUILDING NORTH LIGHT DETAILED
 ELEVATION AND SECTION
26. CIRCULATION DRAWING
27. ATC BILL OF QUANTITIES



NAVI MUMBAI INTERNATIONAL AIRPORT



LARSEN & TOUBRO (L&T)

L&T construction is a division of Larsen & Toubro (L&T) a major Indian Technology, Engineering, Construction and Manufacturing and Financial services conglomerate, with global operations. L&T addresses critical needs in key sectors hydrocarbon, Infrastructure, Power, Process Industries and defence in all over 30 countries around the world. L&T is engaged in the core high impact sectors of the economy and our integrated capabilities span the entire spectrum of “design to deliver”. With over 8 decades of strong customer focused approach and a continuous quest for world class quality, we have unmatched expertise in Technology, Engineering, Construction, infrastructure and Manufacturing services.

THE COMPANY

Larsen & Toubro Limited (L&T) is a technology-driven engineering and construction organization, and one of the largest companies in India's private sector. It has additional interests in manufacturing, services and information technology.

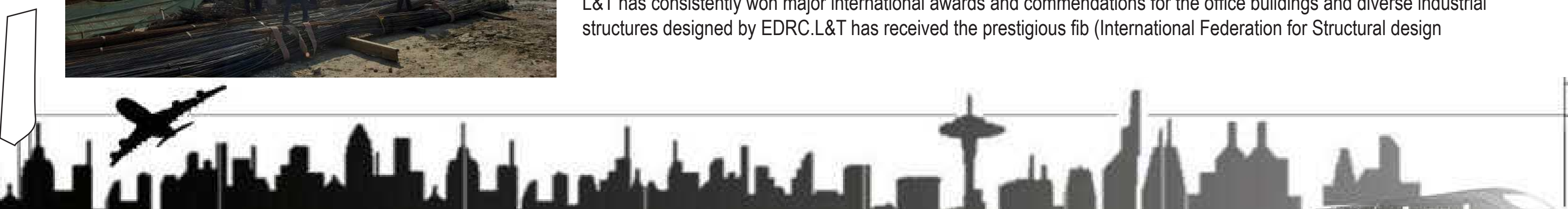


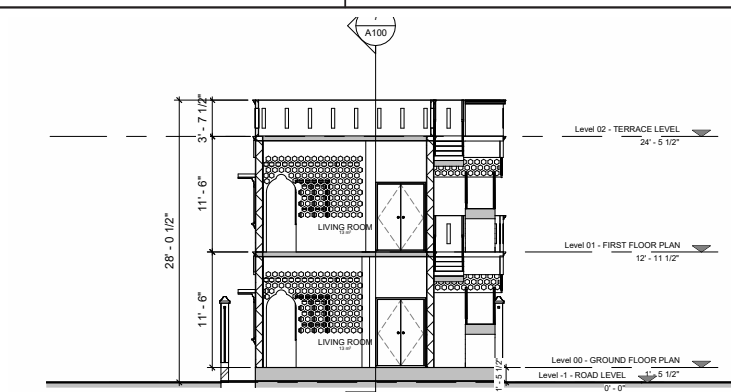
BUILDINGS AND FACTORIES

EDRC's track record of expertise covers design of specialized designs for complicated structures like system housing, high-rise buildings, industrial structures, cement plants, factories, hospitals, bio-tech parks, hotels, shopping malls, IT & ITES parks, sports complexes, airports. It has to its credit pioneering work in large-span precast, prestressed concrete and structural steel structures, large storage silos, prill towers and tall chimneys

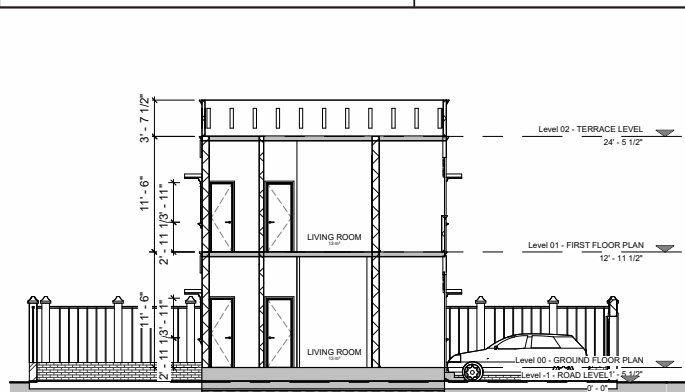
AWARDS AND ACHIEVEMENTS

L&T has consistently won major international awards and commendations for the office buildings and diverse industrial structures designed by EDRC. L&T has received the prestigious fib (International Federation for Structural design

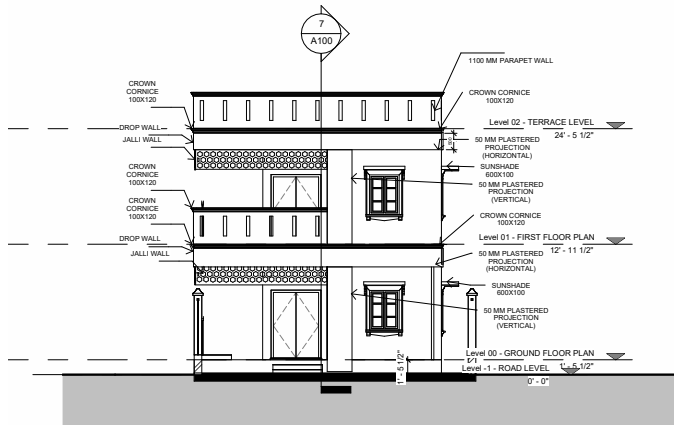




6 Section 01
1 : 100



7 Section 02
1 : 100



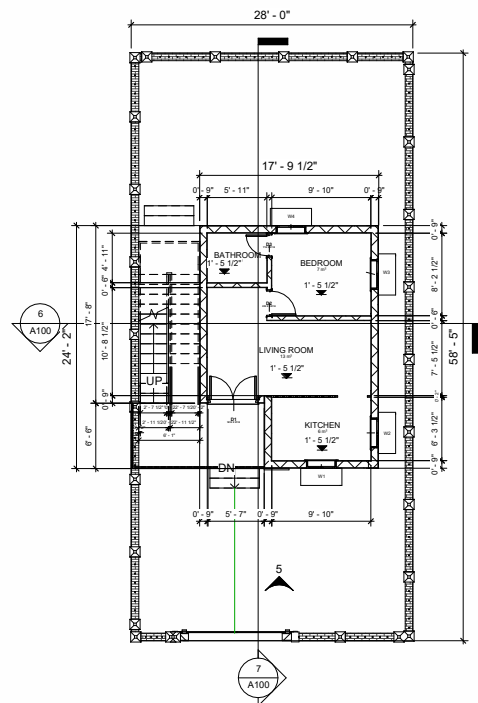
5 ELEVATION
1 : 100



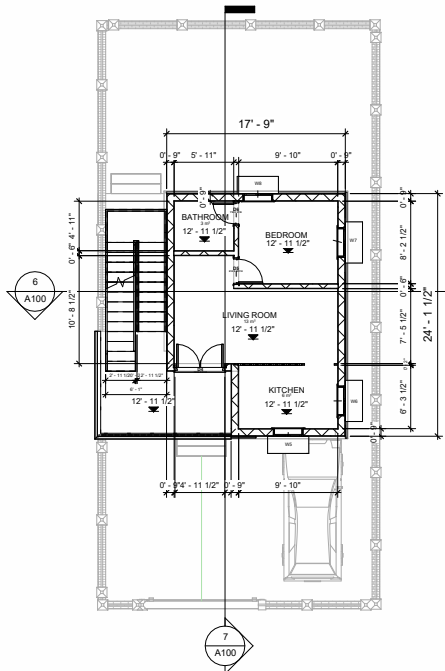
9 3D VIEW 1



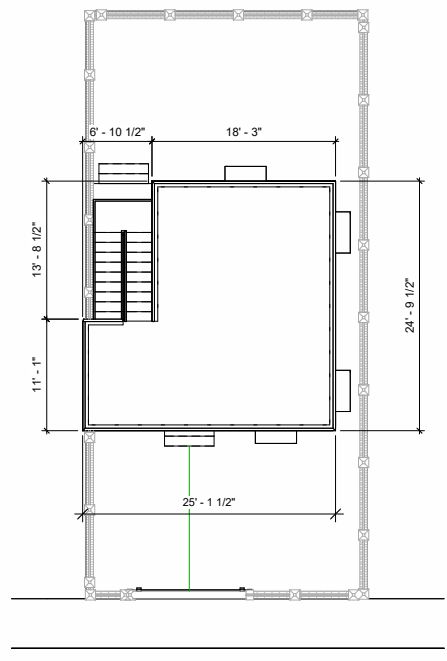
8 3D VIEW 4



2 Level 00 - GROUND FLOOR PLAN
1 : 100



3 Level 01 - FIRST FLOOR PLAN
1 : 100



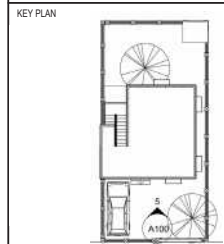
4 Level 02 - TERRACE PLAN
1 : 100



10 3D VIEW 2



11 3D VIEW 3



NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre
(EDRC)

PROJECT: LOW COST TWO STOREY RESIDENT

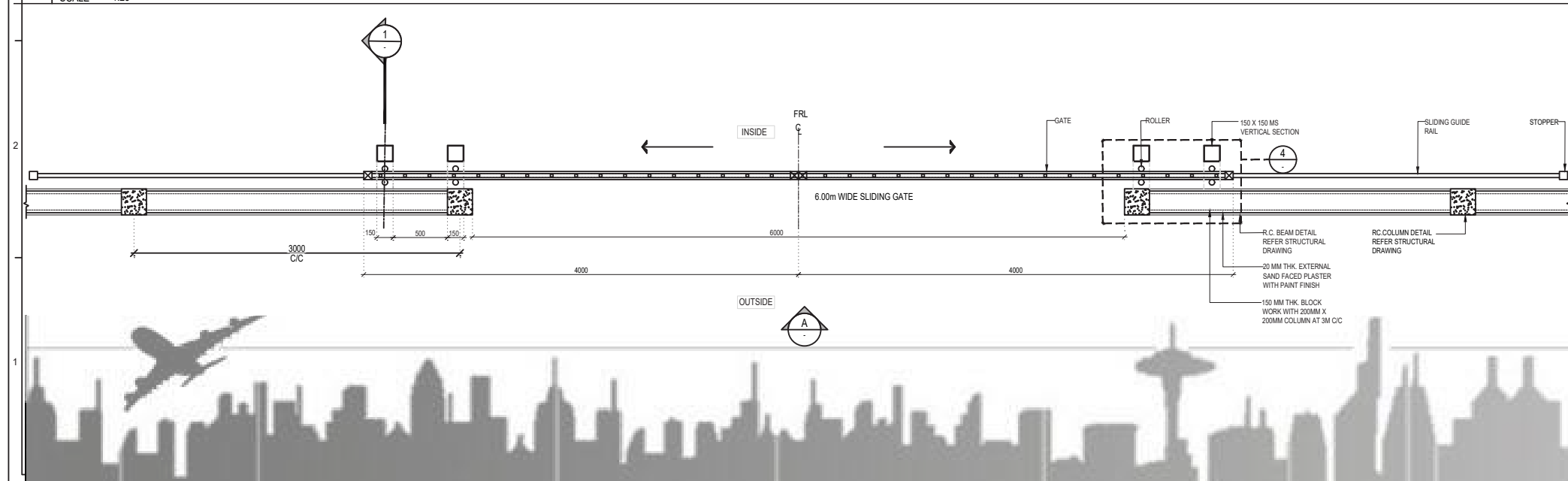
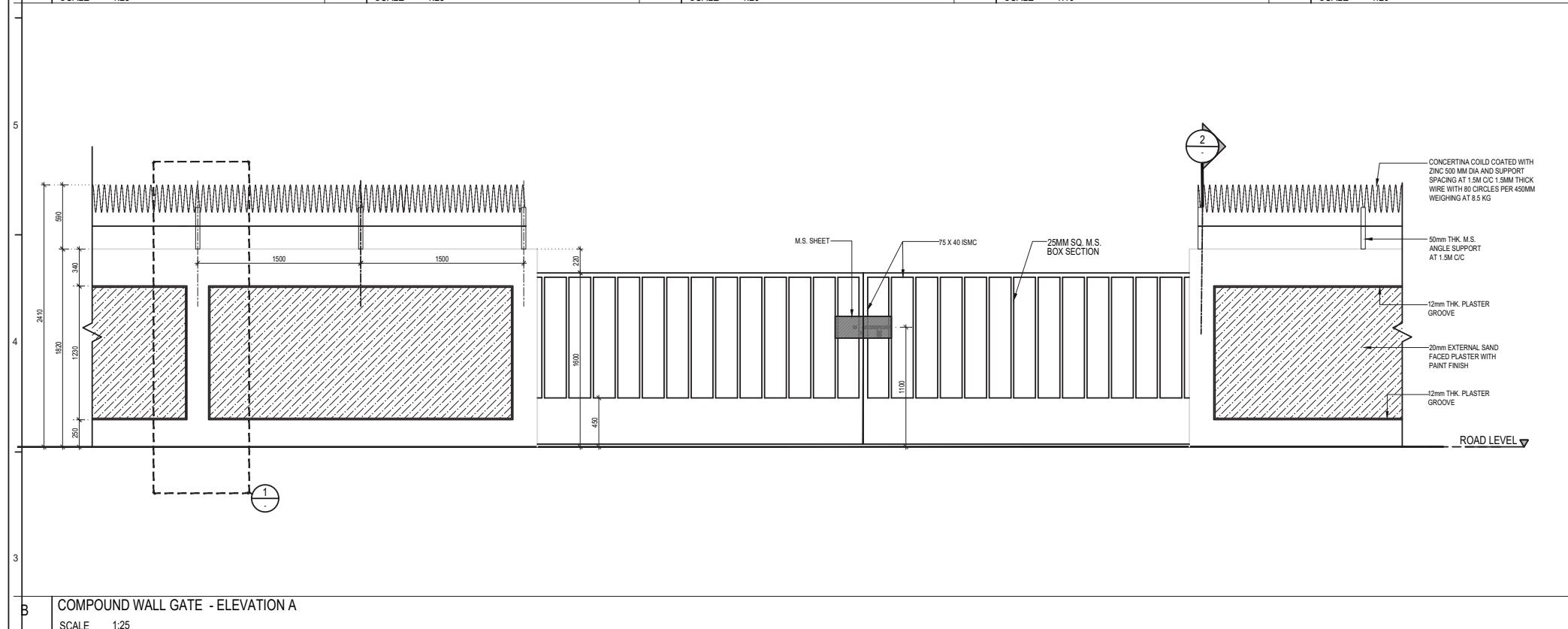
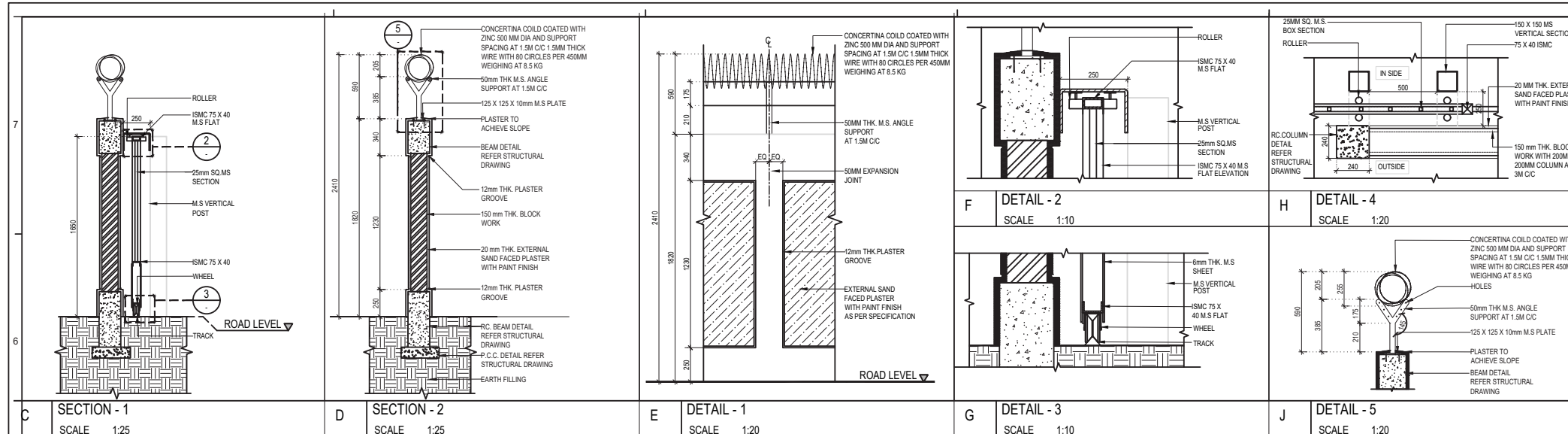
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DRAWING TITLE:
PLANS AND SECTIONS

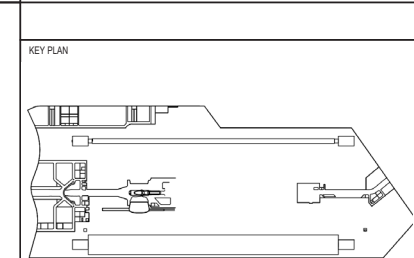


RELEASED FOR
INFORMATION TENDER APPROVAL CONSTRUCTION AS BUILT

G

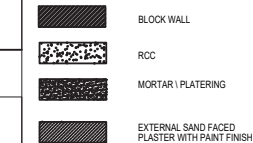


IN	NOTES:
	1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER.
ANAL	
H	2. THIS DRAWING TO BE READ AND NOT TO BE SCALED.
	3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS. ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS WITHIN WORKING DAYS OF RECEIVING THE DRAWINGS.
	PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
CK	
MX	4. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO START OF WORK AND ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE EDRIC ARCHITECT.



	NORTH
--	-------

HATCH LEGEND:



ABBREVIATION:

FRL - FORMED ROAD LEVEL
FFL - FINISHED FLOOR LEVEL
EQ - EQUAL
THK. - THICKNESS
C/L - CENTER LINE
TYP. - TYPICAL

ARCHITECT SEAL:

OFFICE SEAL:

	PROJECT: DEVELOPMENT OF NAVI MUMBAI INTERNATIONAL AIRPORT
	ARCHITECTS & ENGINEERS: Engineering Design and Research Centre (EDRC)

PROJECT TYPICAL DRAWING FOR MUMBAI INTERNATIONAL AIRPORT

STATUS: DETAIL DESIGN

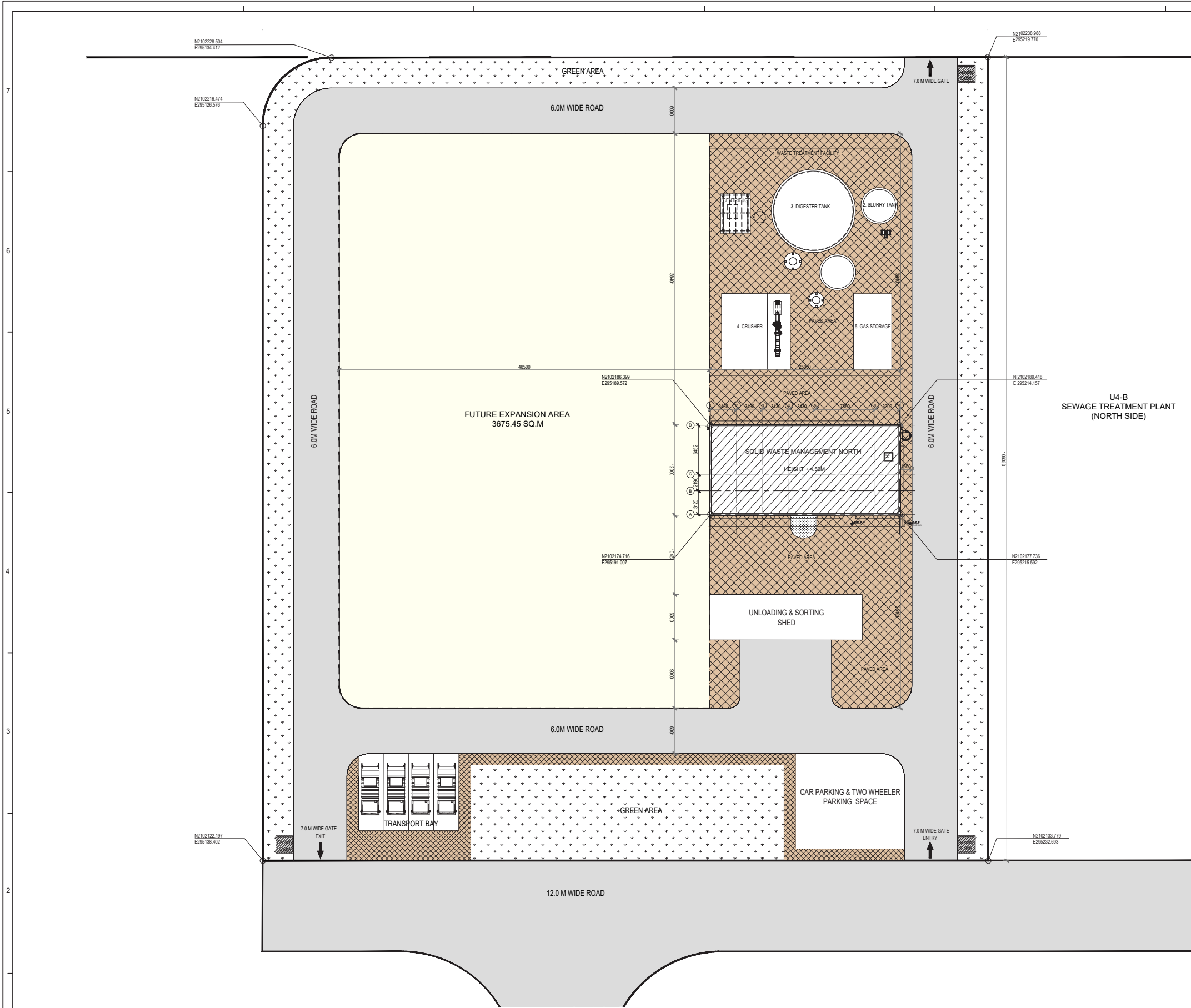
DRAWING TITLE:
COMPOUND WALL AND DOUBLE
SIDE SLIDING GATE

PROJECTION



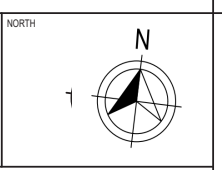
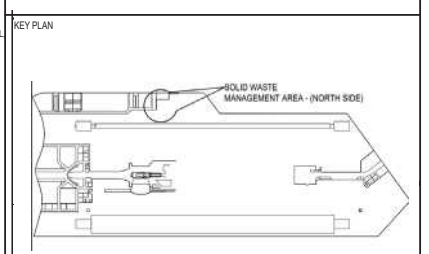
RELEASED FOR

☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT



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7. ALL SHAFT ENCLOSURE WALL TO BE CONSTRUCTED AFTER THE INSTALLATION OF RELATED SERVICE EQUIPMENT.
8. PROVIDE HOUSEKEEPING PADS AT UTILITY ROOMS AS PER REQUIREMENTS IN MEP DRAWINGS.
9. UNLESS OTHERWISE MENTIONED ALL WALLS SHALL BE 200MM THICK SOLID CONCRETE BLOCK WALLS. UNLESS OTHERWISE MENTIONED BLOCKWORK IN ALL DOOR JAMBS SHALL BE 200MM LONG.
10. ALL MATERIALS AND COLORS SHALL BE APPROVED BY THE EMPLOYER.
11. WHERE NON-FIRE RATED/FIRE RATED & FIRE RATED/FIRE RATED PARTITIONS INTERSECT THE PARTITION WITH THE GREATER FIRE RATING SHALL REMAIN CONTINUOUS THROUGH THE INTERSECTION TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING FOR THE INTENDED SPACE.
12. CONTROL JOINTS TO BE PROVIDED AS PER SPECIFICATIONS
13. REFER TO LANDSCAPING DRAWINGS FOR LANDSCAPE
14. EXACT LOCATION OF SLEEVE DETAILS IN RC WALLS REFER STRUCTURAL DRAWING.
15. FOR ALL MATERIAL FINISHES TAGS REFER TO 'DETAILS' ARCHITECTURE OUTLINE SPECIFICATION
16. REFER SIGNAGE DRAWINGS FOR SIGNAGE DETAILS.

- LEGEND :
- ROAD
 - PAVED AREA
 - FUTURE EXTENSION AREA
 - GRADE SLAB
- ABBREVIATIONS :
- FGL= FINISH GROUND LEVEL
 - FFL= FINISH FLOOR LEVEL
 - TOP= TOP OF CONCRETE
 - TOP= TOP OF PARAPET
 - C.L= CENTRE LINE
 - RWP = RAIN WATER DOWNTAKE
 - AMSL = AVERAGE MEAN SEA LEVEL



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT: DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

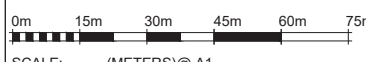
PROJECT: UTILITY BUILDING (STP)

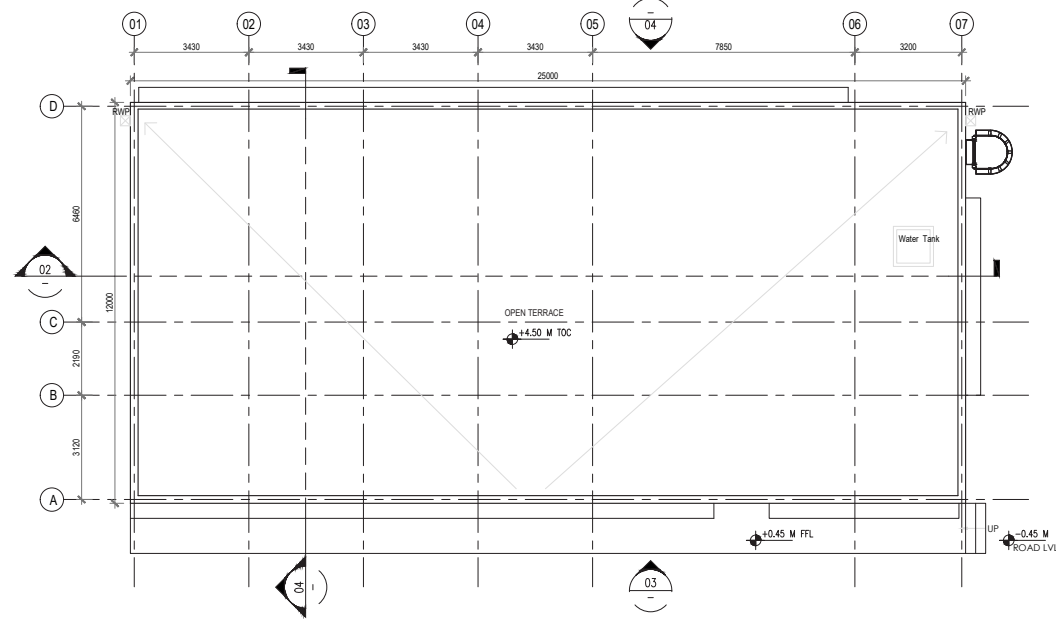
STATUS: CONCEPT PLAN

DRAWING TITLE:
SOILED TREATMENT PLANT (STP)
SITE PLAN

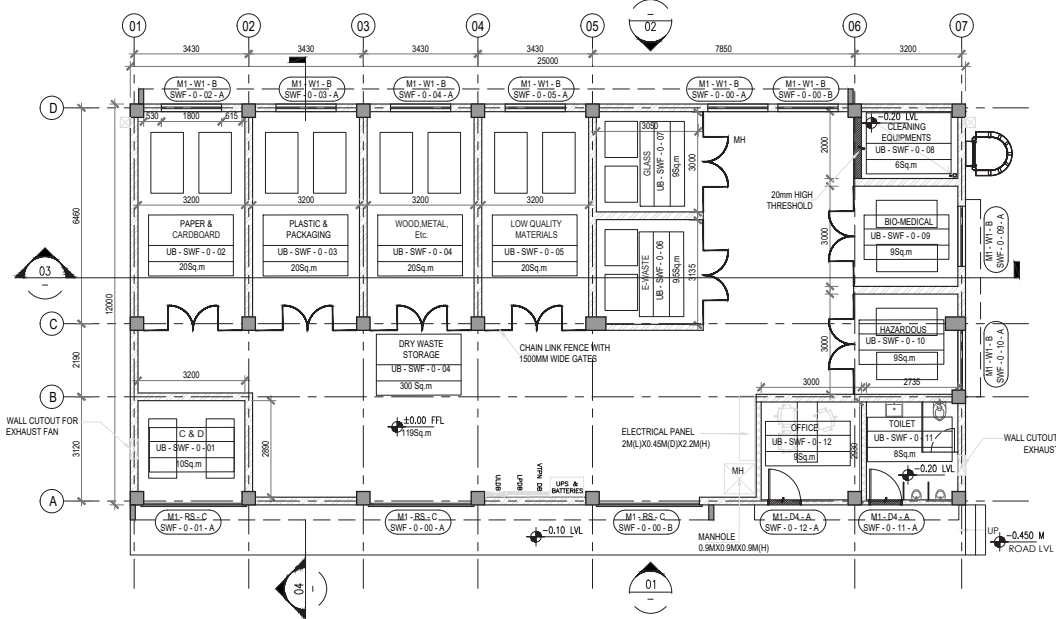
PROJECTION


RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT





02 TERRACE PLAN
SCALE: 1:100



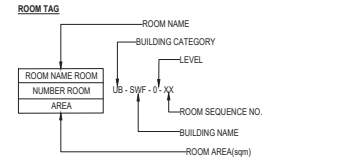
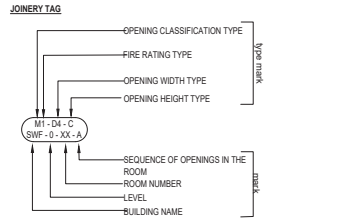
01 GROUND FLOOR PLAN
SCALE: 1:100

WINDOW SCHEDULE			
TYPE OF MARK	WIDTH	HEIGHT	DESCRIPTION
D4	1150	A-2100	HOLLOW METAL DOOR
W2	1800	B-1500	COLOURED ANODISED ALUMINIUM SLIDING GLASS WINDOW WITH MOSQUITO NET PANEL
RS	3000	C-3500	ROLLING SHUTTER WITH OPENING / PERFORATIONS

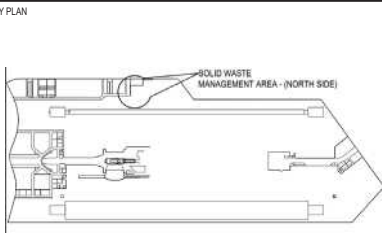
- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER.
 - ± 0.00 M FFL CORRESPONDS TO +4.45 MS.
 - ± 0.00 M FFL CORRESPONDS TO FINISHED FLOOR LEVEL.
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 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS. ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
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 - ALL WALL/CILING/FLOOR PENETRATION FOR DUCTS, PIPES, WIRES, CONDUITS AND GROUPED COMBINATIONS THEREOF ARE TO BE FIRE STOPPED WITH THE APPROPRIATE TESTED FIRE STOPPING SYSTEM TO MATCH THE RATING OF THE FLOOR/WALL THROUGH WHICH THEY ARE PENETRATING.
 - ALL SHAFT ENCLOSURE WALL TO BE CONSTRUCTED AFTER THE INSTALLATION OF RELATED SERVICE EQUIPMENT.
 - PROVIDE HOUSEKEEPING PADS AT UTILITY ROOMS AS PER REQUIREMENTS IN MEP DRAWINGS.
 - UNLESS OTHERWISE MENTIONED ALL WALLS SHALL BE 200MM THICK SOLID CONCRETE BLOCK WALLS.
 - UNLESS OTHERWISE MENTIONED BLOCKWORK IN ALL DOOR JAMBS SHALL BE 200MM LONG.
 - ALL MATERIALS AND COLORS SHALL BE APPROVED BY THE EMPLOYER.
 - WHERE NON-FIRE RATED/FIRE RATED & FIRE RATED/FIRE RATED PARTITIONS INTERSECT THE PARTITION WITH THE GREATER FIRE RATING SHALL REMAIN CONTINUOUS THROUGH THE INTERSECTION TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING FOR THE INTENDED SPACE.
 - CONTROL JOINTS TO BE PROVIDED AS PER SPECIFICATIONS.
 - REFER TO LANDSCAPING DRAWINGS FOR LANDSCAPE.
 - EXACT LOCATION OF SLEEVE DETAILS IN RC WALLS REFER STRUCTURAL DRAWING.
 - FOR ALL MATERIAL FINISHES TAGS REFER TO DETAILS' ARCHITECTURE OUTLINE SPECIFICATION.
 - REFER SIGNAGE DRAWINGS FOR SIGNAGE DETAILS.

- LEGEND :**
- R.C.C. WORKS
 - 200 MM THICK SOLID CONCRETE BLOCK
 - 100 MM THICK BLOCK WALL
 - GRADE SLAB
 - COMPACTED EARTH
 - PROJECT FINISH FLOOR LEVEL
- ABBREVIATIONS :**
- FGL= FINISH GROUND LEVEL
 - FFL= FINISH FLOOR LEVEL
 - TOC= TOP OF CONCRETE
 - TOP= TOP OF PARAPET
 - C.L.= CENTRE LINE
 - RWP= RAIN WATER DOWNTAKE
 - AMSL= AVERAGE MEAN SEA LEVEL

NOTE:
BASED ON THE DIRECTIVE OF EMPLOYERS TO STANDARDIZE THE ELEVATION OF SUPPORT AND UTILITY FACILITIES, THE ELEVATIONS WILL BE DEVELOPED PROGRESSIVELY AND SUBMITTED ACCORDINGLY.



- FINISHES SPECIFICATIONS**
- EXTERNAL FINISHES**
 - EXTERNAL WALLS: ALL EXTERNAL WALLS SHALL BE PLASTERED WITH 18MM THICK WATERPROOF CEMENT PLASTER FINISHED WITH THREE COATS OF EXTERIOR GRADE ACRYLIC EMULSION PAINT OF APPROVED COLOUR AND MAKE.
 - ALUMINIUM FRAMED SLIDING WINDOWS: COLOURED ANODISED ALUMINIUM FRAMED SLIDING WINDOWS WITH GLAZED SLIDING PANELS.
 - PAVER BLOCKS AS PLINTH PROTECTION: 60MM THICK FACTORY-MADE CEMENT CONCRETE INTERLOCKING PAVER BLOCK OF M-30 GRADE OF APPROVED COLOUR AND PATTERN, OVER BED OF COARSE SAND.
 - INTERNAL FINISHES**
 - FLOORING:**
 - ANTI-SKID VITRIFIED TILE- 8MM THICK ON 20MM THICK MORTAR BEDDING WITH EPOXY GROUTING.
 - EPOXY FLOORING WITH MOVEMENT JOINTS: 100 MICRONS EPOXY RESIN COATING ON CEMENT SKEEDED FLOORING.
 - VITRIFIED TILE FLOOR- 8MM THICK ON 20MM THICK MORTAR BEDDING WITH EPOXY GROUTING.
 - SKIRTING:**
 - KOTA STONE POLISHED 100MM HIGH- POLISHED KOTA STONE OF 18MM THICK OVER 20MM THICK CEMENT MORTAR BEDDING OF 1:3 RATIO.
 - ANTI-SKID VITRIFIED TILE 100MM HIGH: 8 MM THICK ON A 15MM THICK CEMENT MORTAR BEDDING WITH WHITE CEMENT GROUT OF MATCHING COLOURS AS PER APPROVALS.
 - VITRIFIED TILE 100MM HIGH: 8 MM THICK ON A 15MM THICK CEMENT MORTAR BEDDING WITH WHITE CEMENT GROUT OF MATCHING COLOURS AS PER APPROVALS.
 - WALL / DADO:**
 - ACRYLIC EMULSION PAINT ON CEMENT PLASTER: ONE COAT OF PRIMER AND TWO COATS OF PREMIUM SILKY EMULSION PAINT OF APPROVED COLOUR.
 - CERAMIC TILE DADO- 6 MM THICK ON A 15MM THICK CEMENT MORTAR WITH WHITE CEMENT GROUT OF MATCHING COLOURS AS PER APPROVALS.
 - OIL BOUND DISTEMPER PAINT ON CEMENT PLASTER: ONE COAT OF PRIMER AND TWO COATS OF OBD PAINT OF APPROVED COLOUR.
 - CEILING:**
 - OIL BOUND DISTEMPER PAINT ON FORM FINISH RCC SURFACE: ONE COAT OF PRIMER AND TWO COATS OF OBD PAINT OF APPROVED COLOUR.
 - PLASTER GYPSUM CEILING WITH ACRYLIC EMULSION PAINT: ONE COAT OF PRIMER AND TWO COATS OF PREMIUM SILKY EMULSION PAINT OF APPROVED COLOUR.
 - WATER RESISTANT GYPSUM BOARD CEILING TILES- 12.5 MM THICK SQUARE EDGE PVC LAMINATED GYPSUM TILE OF SIZE 600X600MM ON HOT DIPPED GALVANISED METAL FRAME SYSTEM.



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
**DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT**
ARCHITECTS & ENGINEERS:
**Engineering Design and Research Centre
(EDRC)**

PROJECT: UTILITY BUILDING (STP)

STATUS: CONCEPT DESIGN

DRAWING TITLE:
**SOILED TREATMENT PLANT (STP)
GROUND FLOOR PLAN**

PROJECTION

RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

PLOT AREA 0.36 acres

ASR

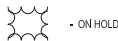
- BOUNDARY
WALL

NOTES

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12. FOR FINISHING SCHEDULE REFER DWG NO :
NMIAL-INT-SF-SR1-DS-P1-DD-AR-61001
13. FOR DOOR SCHEDULE REFER DWG NO :
NMIAL-INT-SF-SR1-DS-P1-DD-AR-61001
14. CONTROL JOINTS TO BE PROVIDED AS PER SPECIFICATIONS
15. REFER TO LANDSCAPING DRAWINGS FOR LANDSCAPE DETAILS.
16. EXACT LOCATION OF SLEEVE DETAILS IN RC WALLS REFER STRUCTURAL DRAWING.
17. FOR ALL MATERIAL FINISHES TAGS REFER TO ARCHITECTURE OUTLINE SPECIFICATION
18. FOR STAIRCASE & TOILET ROOM DETAILS
REFER DWG NO :
NMIAL-INT-SF-SR1-DS-P1-DD-AR-64001, 64002, 76001
19. REFER SIGNAGE DRAWINGS FOR SIGNAGE DETAILS.
20. FOR TYPICAL DETAILS REFER DWG NO :
NMIAL-INT-GN-ET-DS-P1-DD-AR-99001 TO 09025

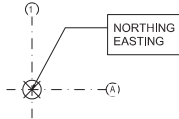
ABBREVIATION:

- | | | | |
|-------|------------------------|------|------------------------|
| AHU | - AIR HANDLING UNIT | | |
| DA | - DIFFERENTIALLY ABSED | | |
| ELEC. | - ELECTRICAL | RWP | - RAIN WATER DOWN PIPE |
| ELV. | - EXTRA LOW VOLTAGE | SL | - SERVICE LIFT |
| FHC | - FIRE HOSE CABINET | TOC | - TOP OF CONCRETE |
| FFL | - FINISH FLOOR LEVEL | TOP | - TOP OF PARAPET |
| FGL | - FORMED GROUND LEVEL | TYP. | - TYPICAL |
| FRL | - FINISHED ROAD LEVEL | SG | - STRUCTURAL GLAZING |
| LVL | - LEVEL | | |
| LV | - LOUVERS | | |
| PL | - PASSENGER LIFT | | |



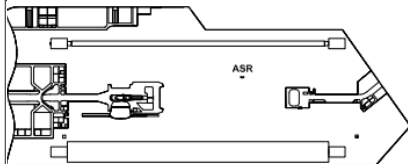
BUILDING SETTING OUT GIVEN FROM
BLOCK-WORK SURFACE

BUILDING COORDINATES ARE PROVIDED
AT GRID INTERSECTION POINTS



SCALE: (METERS) @ A1

KEY PLAN



NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT AIRPORT SURVEILLANCE RADAR TOWER (ASR)

STATUS: DETIALED DESIGN

DRAWING TITLE:
SITE PLAN

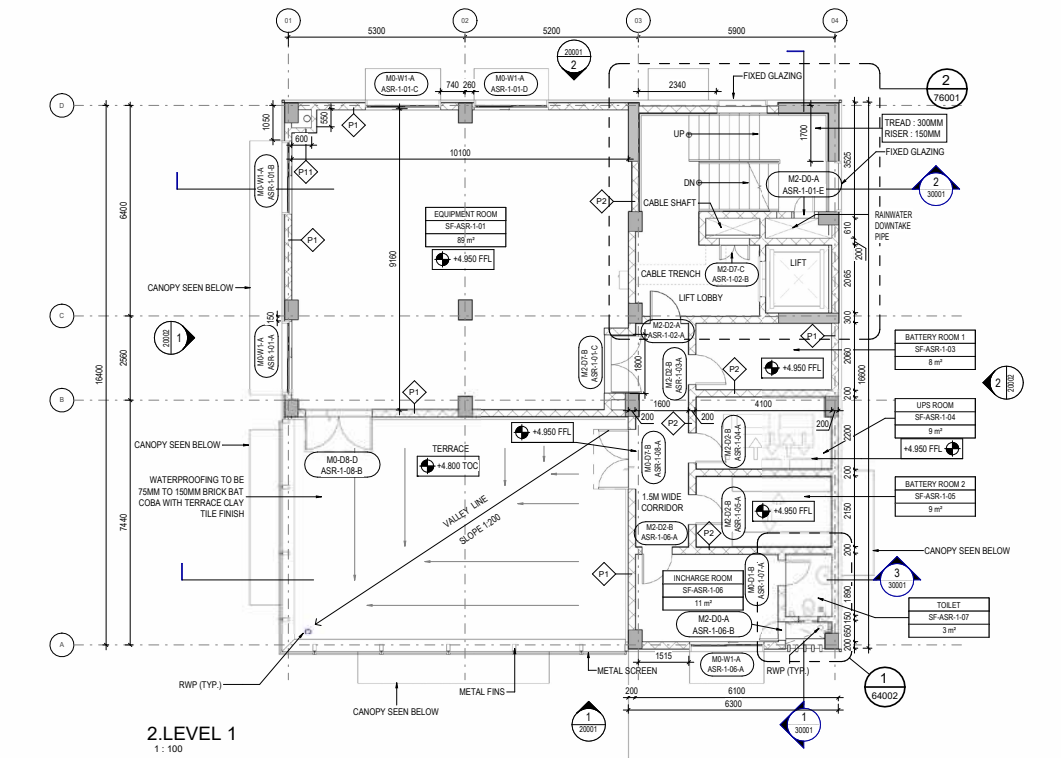
PROJECTION



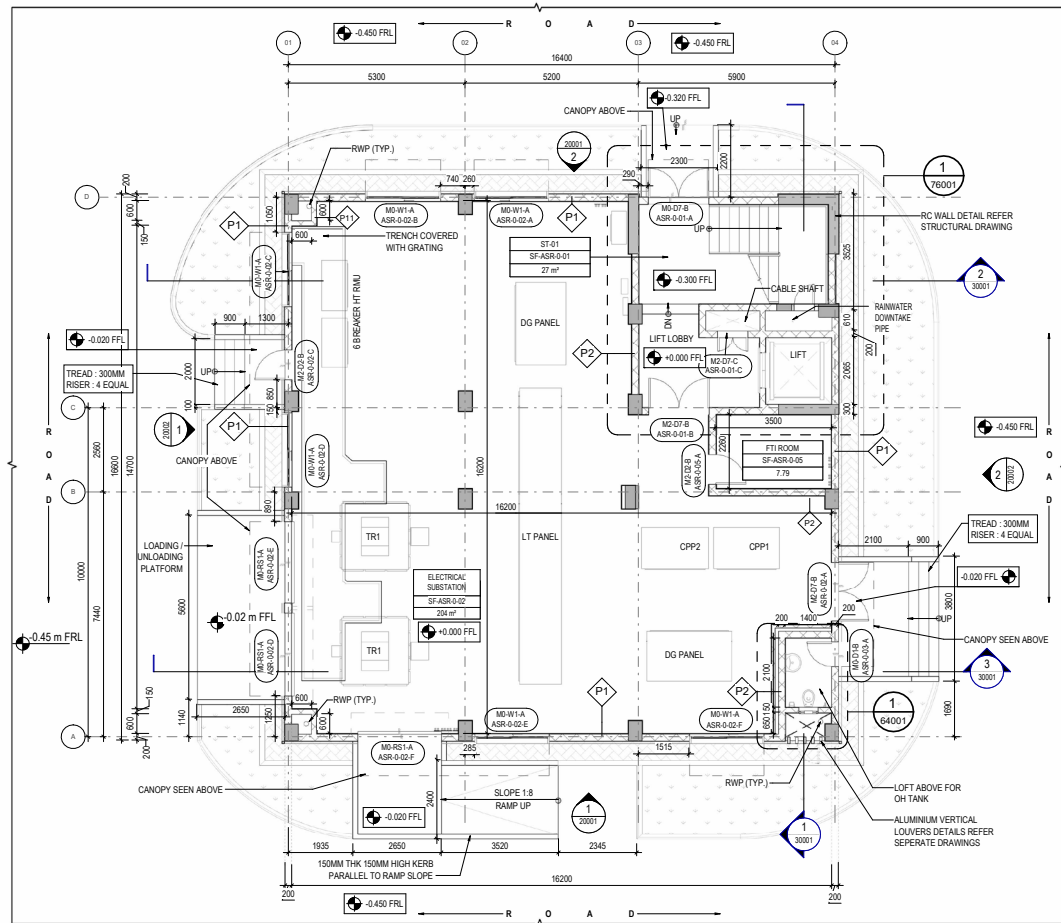
RELEASED FOR

☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

G



2.LEVEL 1
1: 100



1.LEVEL 0
1: 100

ROOM TAG	
ROOM NAME ROOM NUMBER 150m²	ROOM NAME BUILDING CATEGORY BUILDING NAME LEVEL ROOM SEQUENCE NO. ROOM AREA (m²)
JOINERY TAG	
OPENING CLASSIFICATION TYPE FIRE RATING TYPE OPENING WIDTH TYPE OPENING HEIGHT TYPE	SEQUENCE OF OPENINGS IN THE ROOM ROOM NUMBER LEVEL BUILDING NAME
DOORS :	
OPENING WIDTH OPENING HEIGHT	OPENING MATERIAL TYPE FIRE RATING TYPE
DO - 600MM D1 - 750MM D2 - 900MM D3 - 1000MM D4 - 1100MM D5 - 1200MM D6 - 1500MM D7 - 1800MM D8 - 2000MM D9 - 2250MM	A - 1800MM B - 2100MM C - 2200MM D - 2400MM E - 2525MM F - 3225MM 0 - 0HR FIRE RATED 1 - 1HR FIRE RATED 2 - 2HR FIRE RATED
LOUVERS :	
OPENING WIDTH OPENING HEIGHT	WINDOWS : OPENING WIDTH OPENING HEIGHT
LV1 - 600MM LV2 - 1200MM LV3 - 2250MM LV4 - 3000MM LV5 - 3250MM LV6 - 3500MM LV7 - 4500MM LV8 - 5250MM	A - 700MM B - 800MM C - 1075MM D - 1200MM E - 1225MM F - 2400MM G - 2600MM H - 3600MM I - 4300MM W1 - 2250MM W2 - 1800MM W3 - 850MM A - 3200MM B - 1400MM
ROLLING SHUTTER:	
RS1 - 2500MM A - 2700MM	OPENING HEIGHT A - 700MM B - 900MM

NOTES

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± 0.00 M FFL CORRESPONDS TO LEVEL 0 FFL.
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12. FOR FINISHING SCHEDULE REFER DWG NO. NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
13. FOR DOOR SCHEDULE REFER DWG NO : NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
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WALL TYPE LEGEND

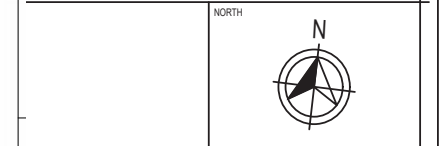
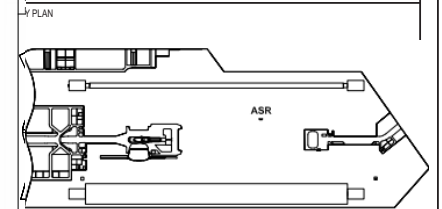
- | | |
|----|--|
| P1 | 200MM THK CMU WALL UPTO SLAB NON FIRE RATED |
| P2 | 200MM THK CMU WALL UPTO SLAB 2HR FIRE RATED |
| P3 | 100MM THK CMU WALL UPTO SLAB NON FIRE RATED |
| P4 | 100MM THK CMU WALL UPTO 100MM ABOVE FALSE CEILING NON FIRE RATED |

ABBREVIATION:

- | | |
|---------------------------|----------------------------|
| AHU - AIR HANDLING UNIT | RWP - RAIN WATER DOWN PIPE |
| DA - DIFFERENTLY ABLED | SL - SERVICE LIFT |
| ELEC. - ELECTRICAL | TOC - TOP OF CONCRETE |
| ELV. - EXTRA LOW VOLTAGE | TOP - TOP OF PARAPET |
| FHC - FIRE HOSE CABINET | TYP. - TYPICAL |
| FFL - FINISH FLOOR LEVEL | SG - STRUCTURAL GLAZING |
| FGL - FORMED GROUND LEVEL | |
| FRL - FINISHED ROAD LEVEL | |
| LVL - LEVEL | |
| LV - LOUVERS | |
| PL - PASSENGER LIFT | |

- | | |
|--|------------------|
| | - REVISION CLOUD |
| | - ON HOLD |

0m 15m 30m 45m 60m 75m
SCALE: 1:100 (METERS) @ A1



ARCHITECT SEAL:

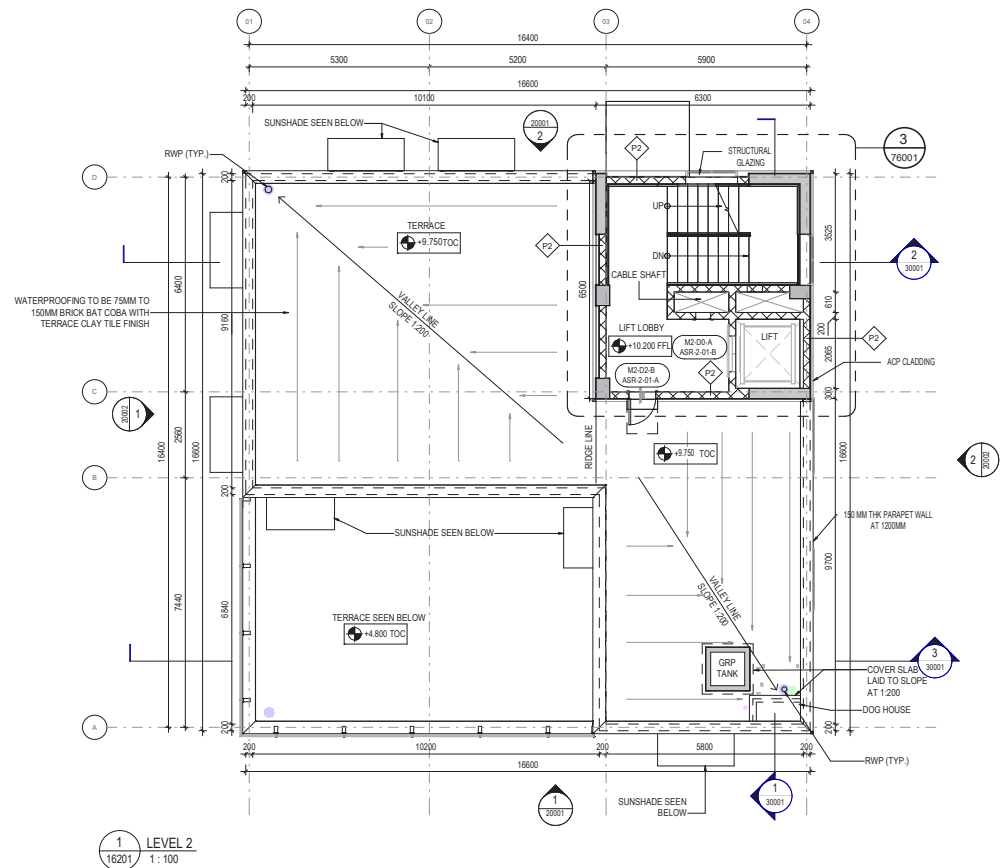
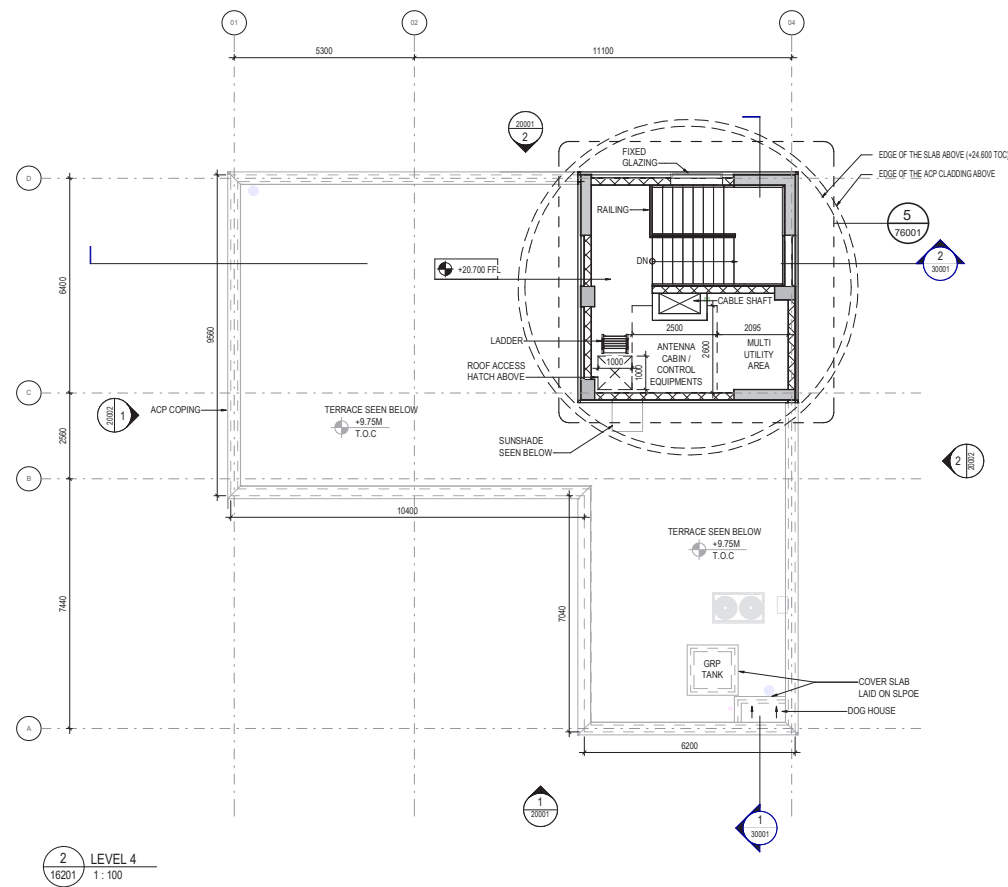
ENGINEER SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)
PROJECT: AIRPORT SURVEILLANCE RADAR TOWER (ASR)

STATUS: DETAILED DESIGN

DRAWING TITLE: GROUND AND FIRST FLOOR PLAN	PROJECTION
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RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

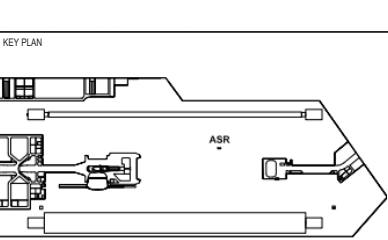
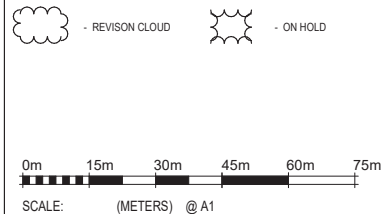


ROOM TAG	
ROOM NAME	ROOM NAME
ROOM NUMBER	ROOM NUMBER
150m ²	150m ²
SF-ASR-0-XX	
ROOM SEQUENCE NO.	
ROOM AREA (m ²)	
JOINERY TAG	
OPENING	OPENING
CLASSIFICATION TYPE	CLASSIFICATION TYPE
FIRE RATING TYPE	FIRE RATING TYPE
OPENING WIDTH TYPE	OPENING WIDTH TYPE
OPENING HEIGHT TYPE	OPENING HEIGHT TYPE
M1 - D4 - C	M1 - D4 - C
ASR-0-XX - A	ASR-0-XX - A
SEQUENCE OF OPENINGS IN THE ROOM	
ROOM NUMBER	
LEVEL	
BUILDING NAME	
DOORS :	
OPENING WIDTH	OPENING HEIGHT
D0 - 600MM	A - 1800MM
D1 - 750MM	B - 2100MM
D2 - 900MM	C - 2200MM
D3 - 1000MM	D - 2400MM
D4 - 1100MM	E - 2525MM
D5 - 1200MM	F - 3225MM
D6 - 1500MM	
D7 - 1800MM	
D8 - 2000MM	
D9 - 2250MM	
OPENING MATERIAL TYPE	
M - METAL OPENING	
G - GLASS OPENING	
P - PANELLED OPENING	
C - CLIPBOARD OPENING	
S - SHUTTER OPENING	
FIRE RATING TYPE:	
0 - 0HR FIRE RATED	
1 - 1HR FIRE RATED	
2 - 2HR FIRE RATED	
LOUVERS :	
OPENING WIDTH	OPENING HEIGHT
L1 - 600MM	A - 700MM
L2 - 1200MM	B - 800MM
L3 - 2250MM	C - 1075MM
L4 - 3200MM	D - 1200MM
L5 - 3250MM	E - 1250MM
L6 - 3500MM	F - 2400MM
L7 - 4500MM	G - 2600MM
L8 - 5250MM	H - 3800MM
L9 - 5250MM	I - 4300MM
WINDOWS :	
OPENING WIDTH	OPENING HEIGHT
W1 - 2250MM	A - 3200MM
W2 - 1000MM	B - 1400MM
W3 - 850MM	
VENTILATORS:	
OPENING WIDTH	OPENING HEIGHT
V1 - 600MM	
V2 - 800MM	
ROLLING SHUTTER:	
RS1 - 2500MM	A - 2700MM
	A - 700MM
	B - 900MM

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER.
 - ± 0.00 M FFL CORRESPONDS TO +9.45 AMSL.
± 0.00 M FFL CORRESPONDS TO LEVEL 0 FFL.
 - THIS DRAWING TO BE READ AND NOT TO BE SCALED
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS. ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
 - ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO START OF WORK AND ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE EDRG ARCHITECT.
 - ALL WALL/CEILING/FLOOR PENETRATION FOR DUCTS, PIPES, WIRES, CONDUITS AND GROUPED COMBINATIONS THEREOF ARE TO BE FIRE STOPPED WITH THE APPROPRIATE TESTED FIRE STOPPING SYSTEM TO MATCH THE RATING OF THE FLOOR/WALL THROUGH WHICH THEY ARE PENETRATING.
 - ALL SHAFT ENCLOSURE WALL TO BE CONSTRUCTED AFTER THE INSTALLATION OF RELATED SERVICE EQUIPMENT.
 - PROVIDE HOUSEKEEPING PADS AT UTILITY ROOMS AS PER REQUIREMENTS IN MEP DRAWINGS.
 - 200mm THK DOOR SHOULDER TO BE MAINTAINED UNLESS OTHERWISE SPECIFIED.
 - ALL MATERIALS AND COLORS SHALL BE APPROVED BY THE EMPLOYER.
 - WHERE NON-FIRE RATED/FIRE RATED & FIRE RATED/ FIRE RATED PARTITIONS INTERSECT THE PARTITION WITH THE GREATER FIRE RATING SHALL REMAIN CONTINUOUS THROUGH THE INTERSECTION TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING FOR THE INTENDED SPACE.
 - FOR FINISHING SCHEDULE REFER DWG NO. NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
 - FOR DOOR SCHEDULE REFER DWG NO. NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
 - CONTROL JOINTS TO BE PROVIDED AS PER SPECIFICATIONS
 - REFER TO LANDSCAPING DRAWINGS FOR LANDSCAPE DETAILS.
 - EXACT LOCATION OF SLEEVE DETAILS IN RC WALLS REFER STRUCTURAL DRAWING.
 - FOR ALL MATERIAL FINISHES TAGS REFER TO ARCHITECTURE OUTLINE SPECIFICATION
 - FOR STAIRCASE & TOILET ROOM DETAILS REFER DWG NO. NMIAL-LNT-SF-SR1-DS-P1-DD-AR-64001,64002,78001
 - REFER SIGNAGE DRAWINGS FOR SIGNAGE DETAILS.
 - FOR TYPICAL DETAILS REFER DWG NO. NMIAL-LNT-GN-DET-DS-P1-DD-AR-09001 TO 09025

WALL TYPE LEGEND	
P1	200MM THK CMU WALL UPTO SLAB NON FIRE RATED
P2	200MM THK CMU WALL UPTO SLAB 2HR FIRE RATED
P3	100MM THK CMU WALL UPTO SLAB NON FIRE RATED
P4	100MM THK CMU WALL UPTO 100MM ABOVE FALSE CEILING NON FIRE RATED

ABBREVIATION:			
AHU	- AIR HANDLING UNIT	RWP	- RAIN WATER DOWN PIPE
DA	- DIFFERENTLY ABLED	SL	- SERVICE LIFT
ELEC.	- ELECTRICAL	TOC	- TOP OF CONCRETE
ELV.	- EXTRA LOW VOLTAGE	TOP	- TOP OF PARAPET
FHC	- FIRE HOSE CABINET	TYP.	- TYPICAL
FFL	- FINISH FLOOR LEVEL	SG	- STRUCTURAL GLAZING
FGL	- FORMED GROUND LEVEL		
FRL	- FINISHED ROAD LEVEL		
LVL	- LEVEL		
LV	- LOUVERS		
PL	- PASSENGER LIFT		



NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre
(EDRC)

PROJECT AIRPORT SURVEILLANCE RADAR TOWER (ASR)

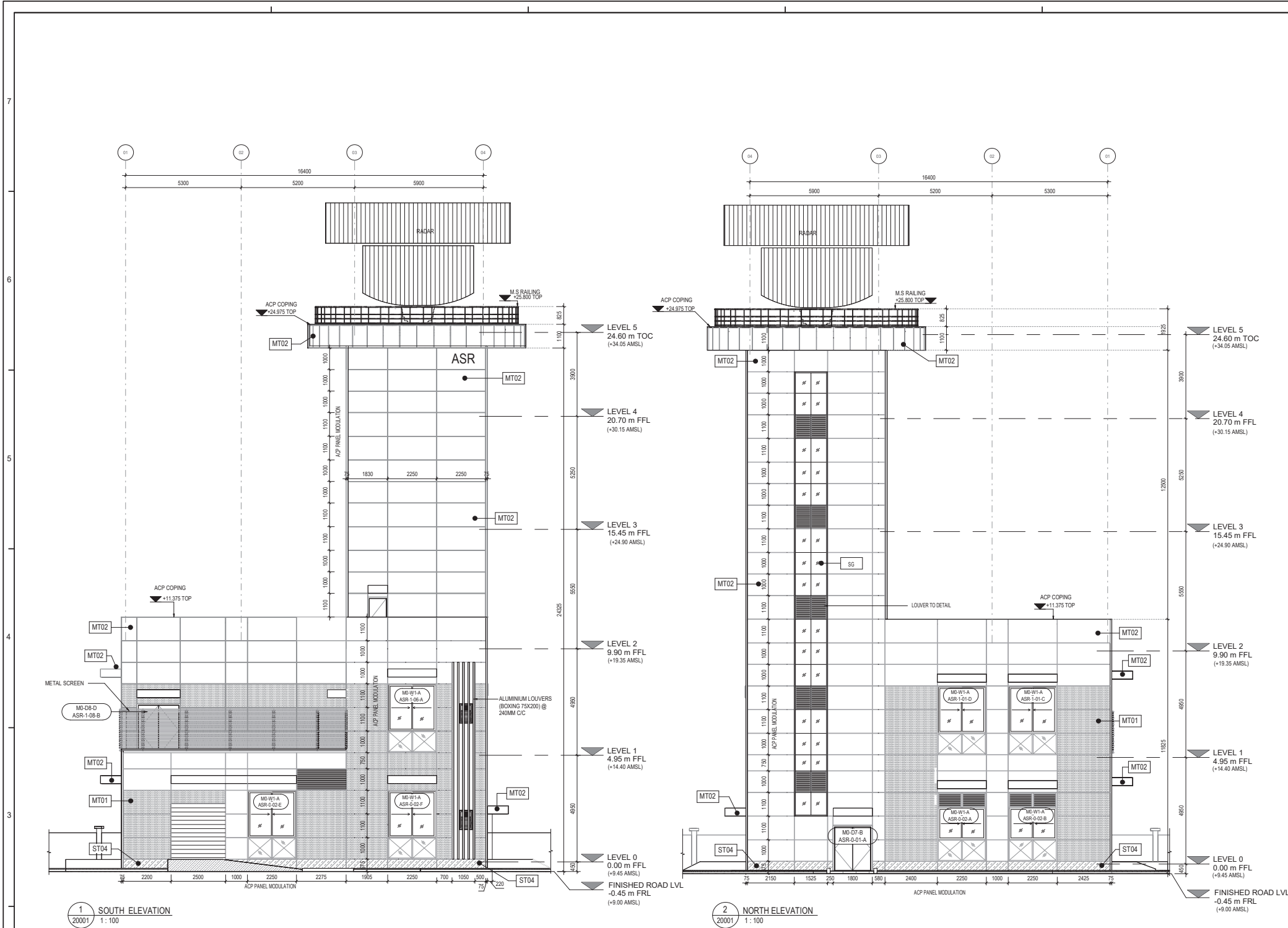
STATUS: DETAILED DESIGN

DRAWING TITLE:
SECOND AND FOURTH FLOOR PLAN



RELEASED FOR
INFORMATION TENDER APPROVAL CONSTRUCTION AS BUILT

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- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER.
 2. ± 0.00 M FFL CORRESPONDS TO +9.45 AMSL.
 ± 0.00 M FFL CORRESPONDS TO LEVEL 0 FFL.
 3. THIS DRAWING TO BE READ AND NOT TO BE SCALED
 4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS. ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS WITHIN 7 WORKING DAYS OF RECEIVING THE DRAWINGS, PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
 5. ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO START OF WORK AND ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE EDRC ARCHITECT.
 6. ALL WALL/CEILING/FLOOR PENETRATION FOR DUCTS, PIPES, WIRES, CONDUITS AND GROUPED COMBINATIONS THEREOF ARE TO BE FIRE STOPPED WITH THE APPROPRIATE TESTED FIRE STOPPING SYSTEM TO MATCH THE RATING OF THE FLOORWALL THROUGH WHICH THEY ARE PENETRATING.
 7. ALL SHAFT ENCLOSURE WALL TO BE CONSTRUCTED AFTER THE INSTALLATION OF RELATED SERVICE EQUIPMENT.
 8. PROVIDE HOUSEKEEPING PADS AT UTILITY ROOMS AS PER REQUIREMENTS IN MEP DRAWINGS.
 9. 200mm THK. DOOR SHOULDER TO BE MAINTAINED UNLESS OTHERWISE SPECIFIED.
 10. ALL MATERIALS AND COLORS SHALL BE APPROVED BY THE EMPLOYER.
 11. WHERE NON-FIRE RATED/FIRE RATED & FIRE RATED/ FIRE RATED PARTITIONS INTERSECT THE PARTITION WITH THE GREATER FIRE RATING SHALL REMAIN CONTINUOUS THROUGH THE INTERSECTION TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING FOR THE INTENDED SPACE.
 12. FOR FINISHING SCHEDULE REFER DWG NO. NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
 13. FOR DOOR SCHEDULE REFER DWG NO : NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
 14. CONTROL JOINTS TO BE PROVIDED AS PER SPECIFICATIONS
 15. REFER TO LANDSCAPING DRAWINGS FOR LANDSCAPE DETAILS.
 16. EXACT LOCATION OF SLEEVE DETAILS IN RC WALLS REFER STRUCTURAL DRAWING.
 17. FOR ALL MATERIAL FINISHES TAGS REFER TO ARCHITECTURE OUTLINE SPECIFICATION
 18. FOR STAIRCASE & TOILET ROOM DETAILS REFER DWG NO : NMIAL-LNT-SF-SR1-DS-P1-DD-AR-64001,64002,76001
 19. REFER SIGNAGE DRAWINGS FOR SIGNAGE DETAILS.
 20. FOR TYPICAL DETAILS REFER DWG NO : NMIAL-LNT-GN-DET-DS-P1-DD-AR-09001 TO 09025
- HATCH LEGEND**
- EARTH
 - AAC WALL
 - CMU WALL
 - RCC WALL
 - MT01 - ALUMINIUM COMPOSITE PANEL TYPE-1 (RAL SHADE 4004)
 - MT02 - ALUMINIUM COMPOSITE PANEL TYPE-2 (RAL SHADE - 7037)
 - ST04 - GRANITE STONE - GREY
- ABBREVIATION:**
- | | | | |
|-------|-----------------------|------|------------------------|
| AHU | - AIR HANDLING UNIT | RWP | - RAIN WATER DOWN PIPE |
| DA | - DIFFERENTLY ABLED | SL | - SERVICE LIFT |
| ELEC. | - ELECTRICAL | TOC | - TOP OF CONCRETE |
| ELV. | - EXTRA LOW VOLTAGE | TOP | - TOP OF PARAPET |
| FHC | - FIRE HOSE CABINET | TYP. | - TYPICAL |
| FFL | - FINISH FLOOR LEVEL | SG | - STRUCTURAL GLAZING |
| FGL | - FORMED GROUND LEVEL | | |
| FRL | - FINISHED ROAD LEVEL | | |
| LVL | - LEVEL | | |
| LV | - LOUVERS | | |
| PL | - PASSENGER LIFT | | |
- REVISION CLOUD - ON HOLD
- 0m 15m 30m 45m 60m 75m
SCALE: (METERS) @ A1

KEY PLAN

NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT: DEVELOPMENT OF NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS: Engineering Design and Research Centre (EDRC)

PROJECT: AIRPORT SURVEILLANCE RADAR TOWER (ASR)

STATUS: DETAILED DESIGN

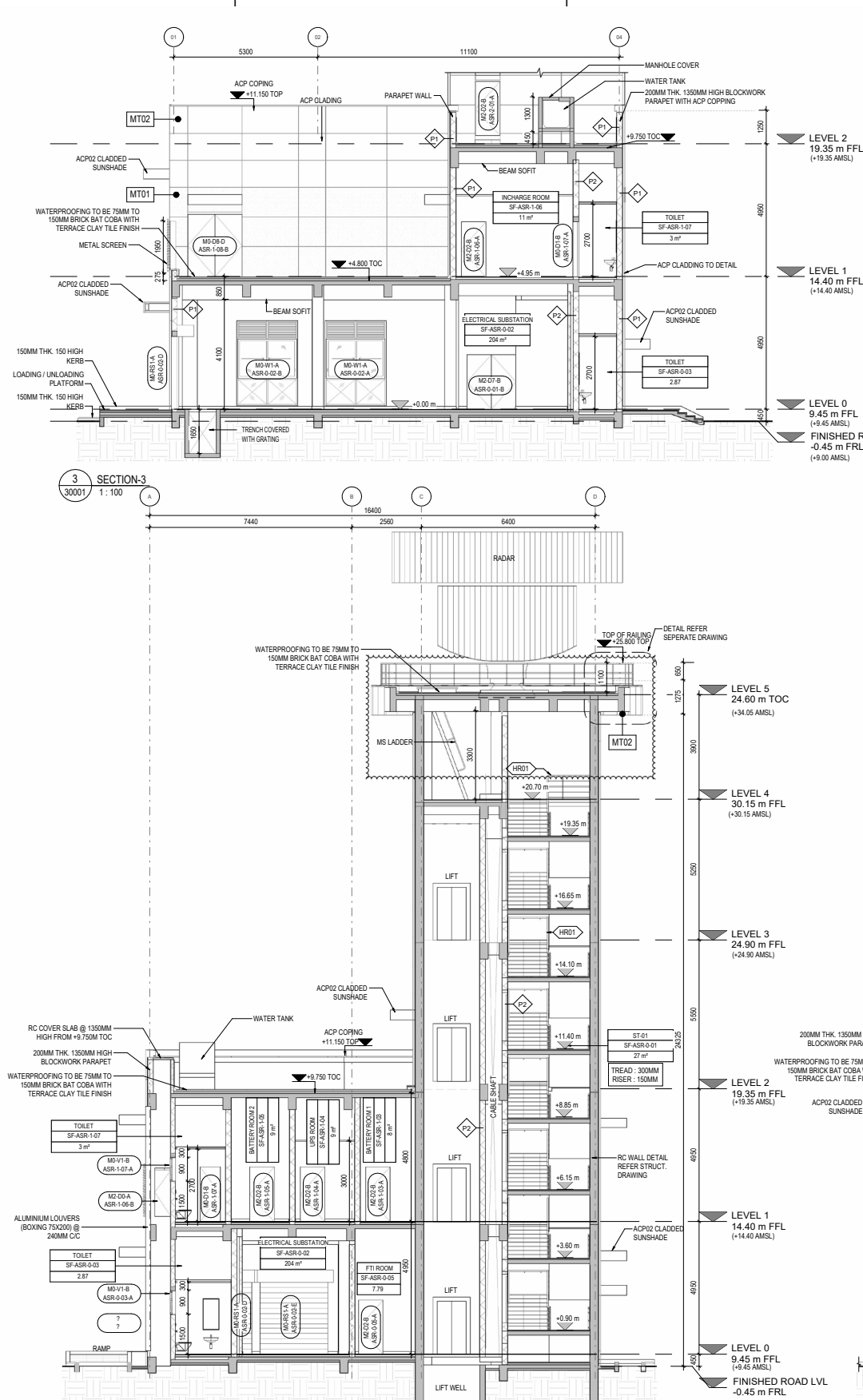
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PROJECTION

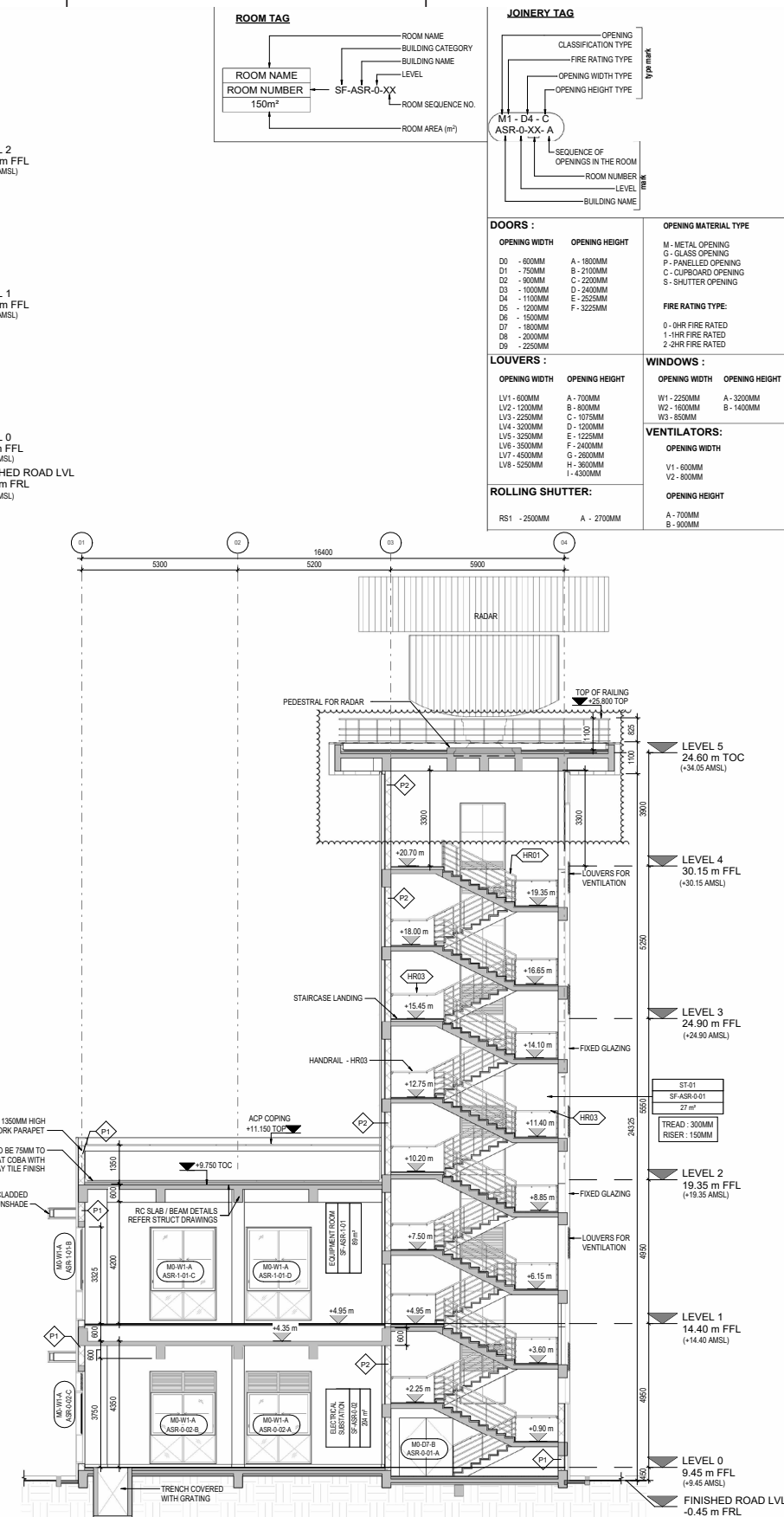
RELEASED FOR

☐ INFORMATION	☐ TENDER	☐ APPROVAL	☐ CONSTRUCTION	☐ AS BUILT
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SECTION-3
30001 1:100



SECTION-2
30001 1:100

ROOM TAG		JOINERY TAG	
ROOM NAME ROOM NUMBER 150m²	ROOM NAME	M1 - D4 - C ASR-0-XX - A	OPENING CLASSIFICATION TYPE
	BUILDING CATEGORY		FIRE RATING TYPE
	BUILDING NAME		OPENING WIDTH TYPE
	LEVEL		OPENING HEIGHT TYPE
	ROOM SEQUENCE NO.		SEQUENCE OF OPENINGS IN THE ROOM
	ROOM AREA (m ²)		BUILDING NAME
SF-ASR-0-XX		type mark	

DOORS :		OPENING MATERIAL TYPE	
OPENING WIDTH	OPENING HEIGHT	M - METAL OPENING G - GLASS OPENING P - PANELLED OPENING C - CLIPBOARD OPENING S - SHUTTER OPENING	
D0 - 600MM D1 - 750MM D2 - 900MM D3 - 1000MM D4 - 1100MM D5 - 1200MM D6 - 1300MM D7 - 1400MM D8 - 1500MM D9 - 1600MM D10 - 1700MM	A - 1800MM B - 2100MM C - 2200MM D - 2400MM E - 2525MM F - 3225MM	FIRE RATING TYPE: 0 - 0HR FIRE RATED 1 - 1HR FIRE RATED 2 - 2HR FIRE RATED	
LOUVERS :		WINDOWS :	
OPENING WIDTH	OPENING HEIGHT	OPENING WIDTH	OPENING HEIGHT
LV1 - 600MM LV2 - 1200MM LV3 - 2250MM LV4 - 3200MM LV5 - 3250MM LV6 - 3500MM LV7 - 4500MM LV8 - 5250MM	A - 700MM B - 800MM C - 1075MM D - 1200MM E - 1225MM F - 2400MM G - 3600MM H - 3600MM I - 4300MM	W1 - 2250MM W2 - 1600MM W3 - 850MM	A - 3200MM B - 1400MM
ROLLING SHUTTER:		VENTILATORS:	
RS1 - 2500MM	A - 2700MM	OPENING WIDTH V1 - 600MM V2 - 800MM	
		OPENING HEIGHT A - 700MM B - 900MM	

- NOTES**
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 - ± 0.00 M FFL CORRESPONDS TO +9.45 AMSL
± 0.00 M FFL CORRESPONDS TO LEVEL 0 FFL
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 - FOR FINISHING SCHEDULE REFER DWG NO. NMIAL-LNT-SF-SR1-DS-P1-DD-AR-51001
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 - FOR STAIRCASE & TOILET ROOM DETAILS REFER DWG NO : NMIAL-LNT-SF-SR1-DS-P1-DD-AR-64001.64002.76001
 - REFER SIGNAGE DRAWINGS FOR SIGNAGE DETAILS.
 - FOR TYPICAL DETAILS REFER DWG NO : NMIAL-LNT-GN-DET-DS-P1-DD-AR- 09001 TO 09025
- WALL TYPE LEGEND**
- | | |
|----|--|
| P1 | 200MM THK CMU WALL UPTO SLAB NON FIRE RATED |
| P2 | 200MM THK CMU WALL UPTO SLAB 2HR FIRE RATED |
| P3 | 100MM THK CMU WALL UPTO SLAB NON FIRE RATED |
| P4 | 100MM THK CMU WALL UPTO 100MM ABOVE FALSE CEILING NON FIRE RATED |
- HATCH LEGEND**
- | | |
|---------|----------|
| [Hatch] | EARTH |
| [Hatch] | AAC WALL |
| [Hatch] | CMU WALL |
| [Hatch] | RCC WALL |
- ABBREVIATION:**
- | | | | |
|-------|-----------------------|------|------------------------|
| AHU | - AIR HANDLING UNIT | RWP | - RAIN WATER DOWN PIPE |
| DA | - DIFFERENTLY ABLED | SL | - SERVICE LIFT |
| ELEC. | - ELECTRICAL | TOC | - TOP OF CONCRETE |
| ELV. | - EXTRA LOW VOLTAGE | TOP | - TOP OF PARAPET |
| FHC | - FIRE HOSE CABINET | FFL | - FINISH FLOOR LEVEL |
| FGL | - FORMED GROUND LEVEL | TYP. | - TYPICAL |
| FRL | - FINISHED ROAD LEVEL | SG | - STRUCTURAL GLAZING |
| LVL | - LEVEL | | |
| LV | - LOUVERS | | |
| PL | - PASSENGER LIFT | | |
- REVISION CLOUD**
0m 15m 30m 45m 60m 75m
SCALE: (METERS) @ A1

KEY PLAN

NORTH

PROJECT:

DEVELOPMENT OF

NAVI MUMBAI INTERNATIONAL AIRPORT

ARCHITECTS & ENGINEERS:

Engineering Design and Research Centre (EDRC)

PROJECT: AIRPORT SURVEILLANCE RADAR TOWER (ASR)

STATUS: DETAILED PLAN

DRAWING TITLE:

SECTIONS

PROJECTION

RELEASED FOR

☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

G

7
6
5
4
3
2
1



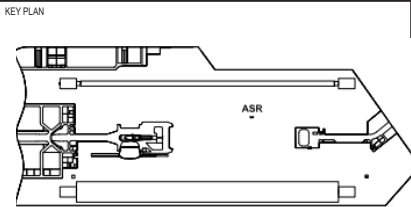
ISOMETRIC VIEW



FRONT ELEVATION VIEW



EYELEVEL VIEW



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 **Engineering Design and Research Centre
(EDRC)**

PROJECT: LOW COST TWO STOREY RESIDENT

STATUS: GOOD FOR CONSTRUCTION

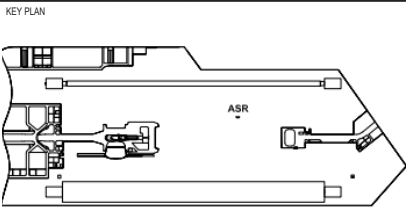
DRAWING TITLE:
PLAN AND SECTIONS



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT



7
6
5
4
3
2
1



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 **Engineering Design and Research Centre
(EDRC)**

PROJECT: LOW COST TWO STOREY RESIDENT

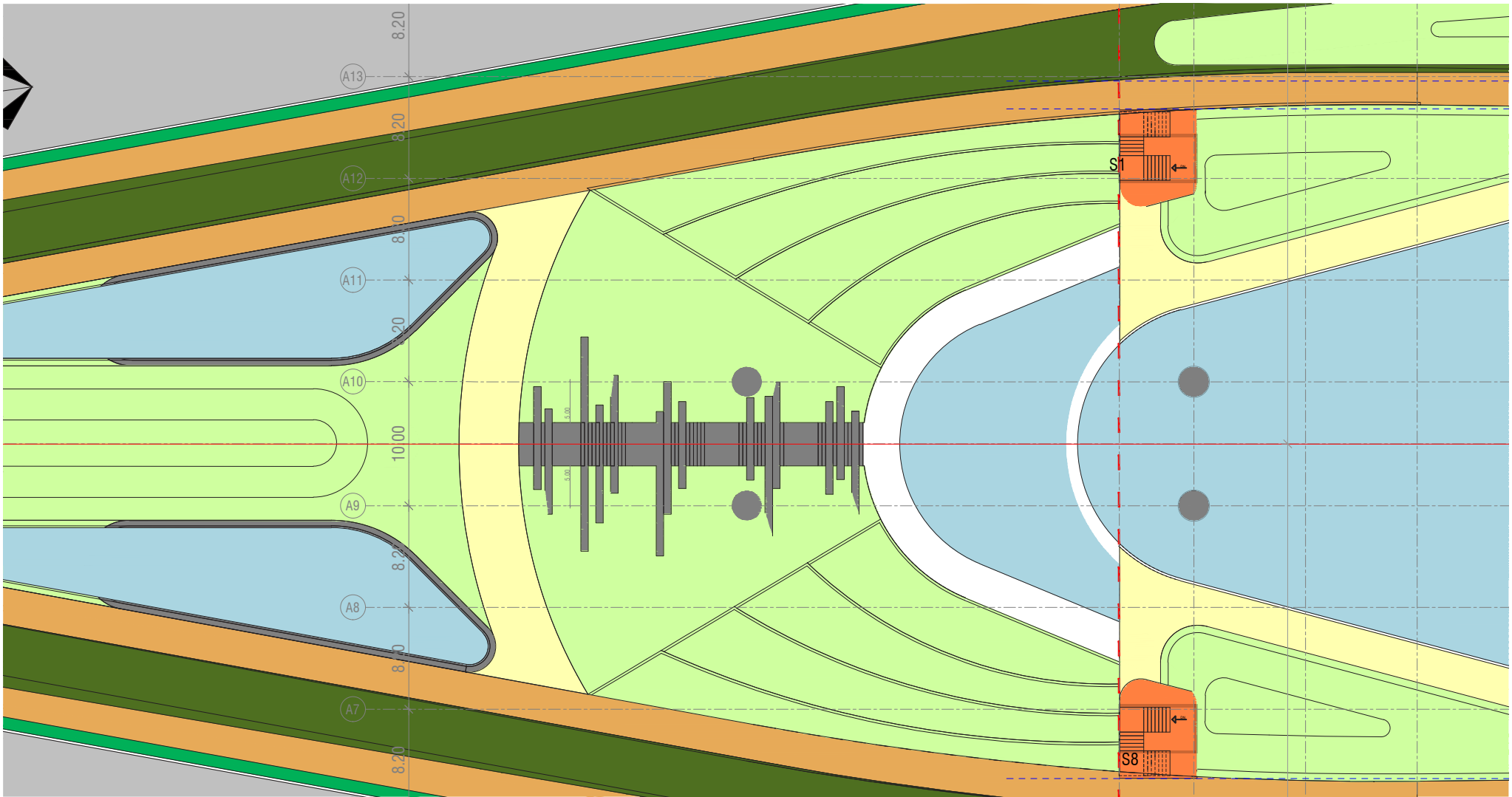
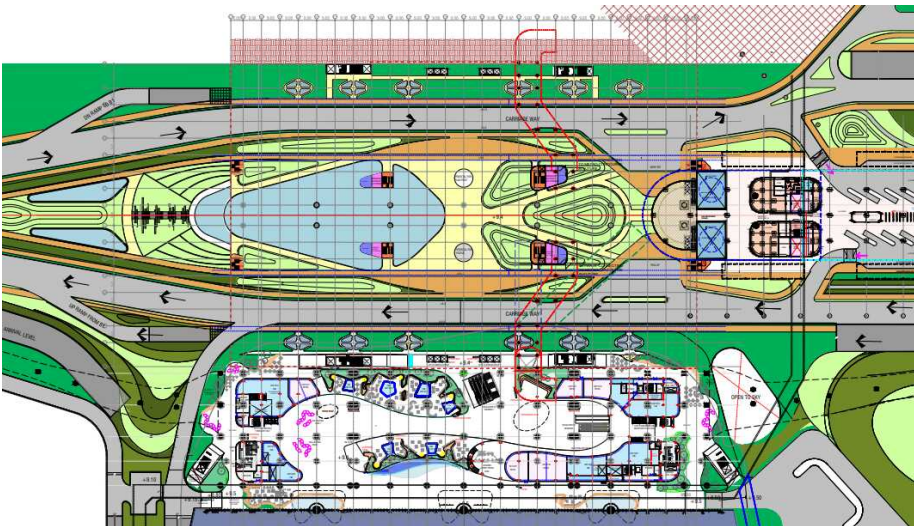
STATUS: GOOD FOR CONSTRUCTION

DRAWING TITLE:
VIEWS

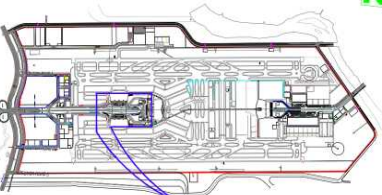


RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT





KEY PLAN



NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 **Engineering Design and Research Centre
(EDRC)**

PROJECT: CENTRAL TERMINAL COMPLEX

STATUS: CONCEPT DESIGN

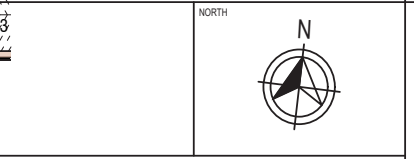
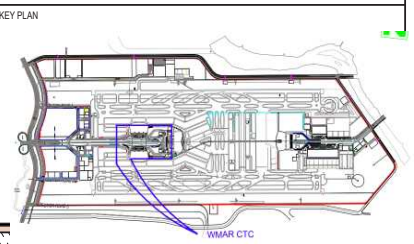
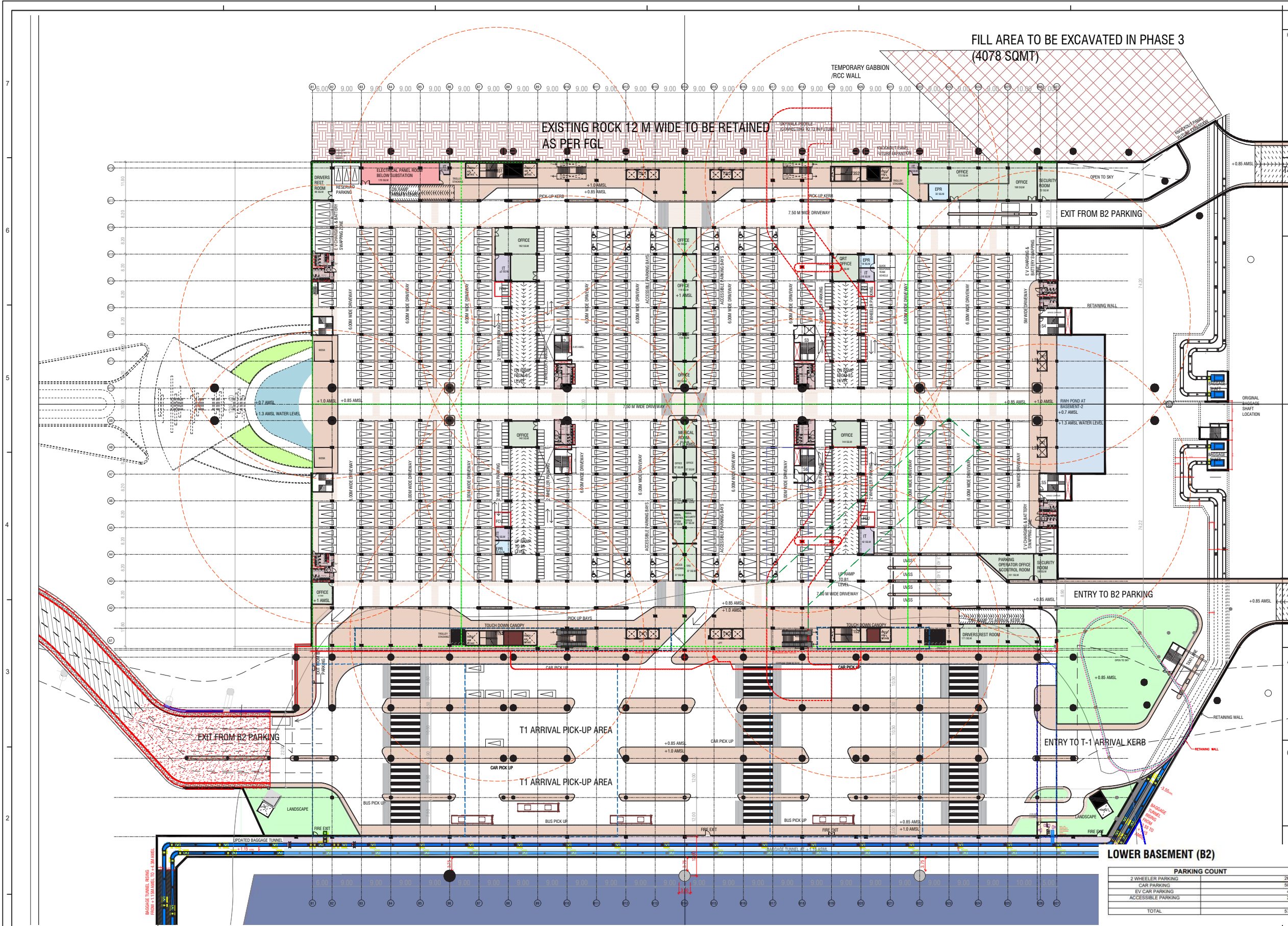
DRAWING TITLE:
PODIUM AMPHITHEATRE
SITE PLAN

PROJECTION



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

G



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre (EDRC)

PROJECT: CENTRAL TERMINAL COMPLEX

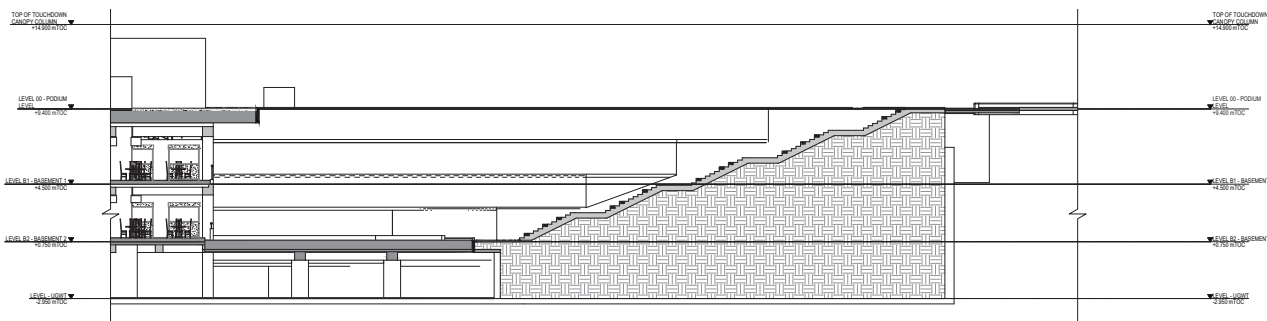
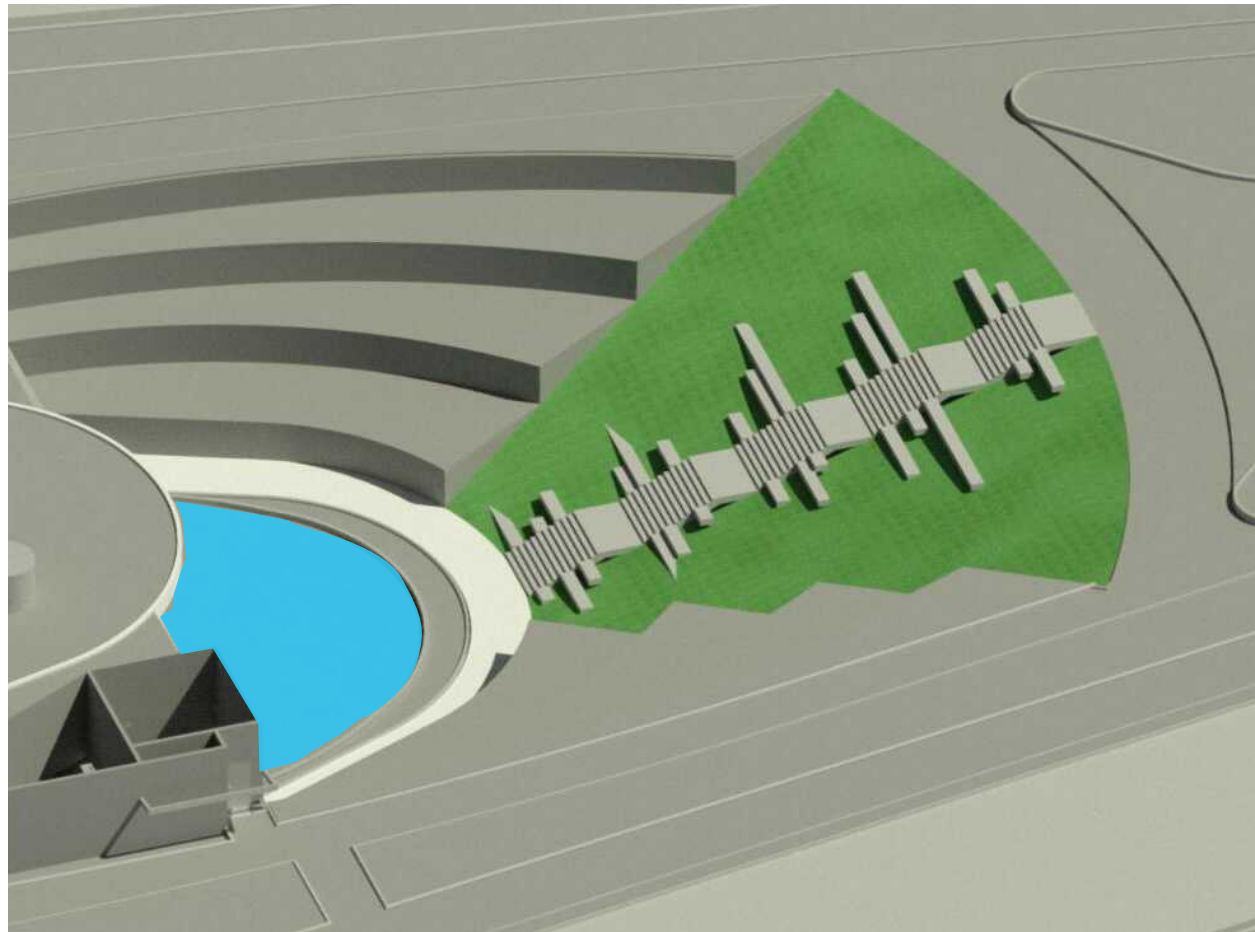
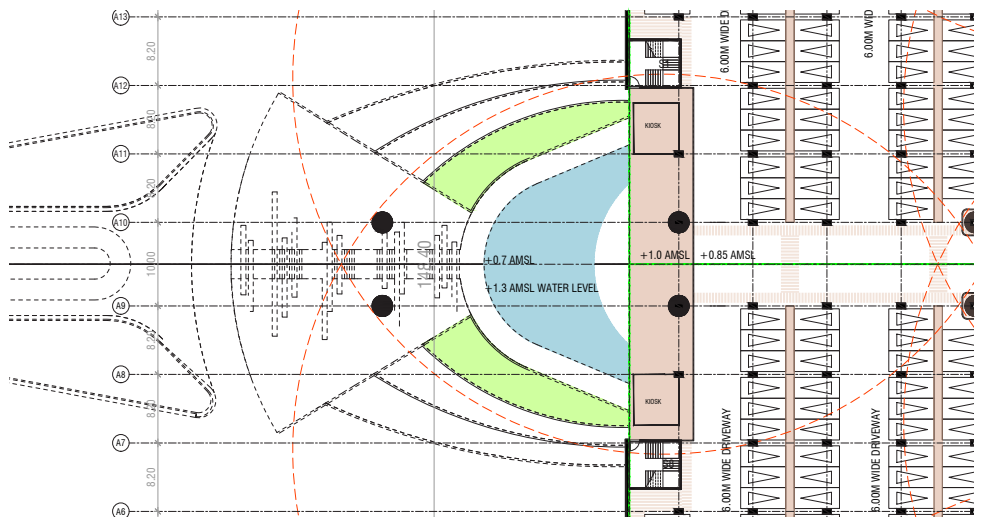
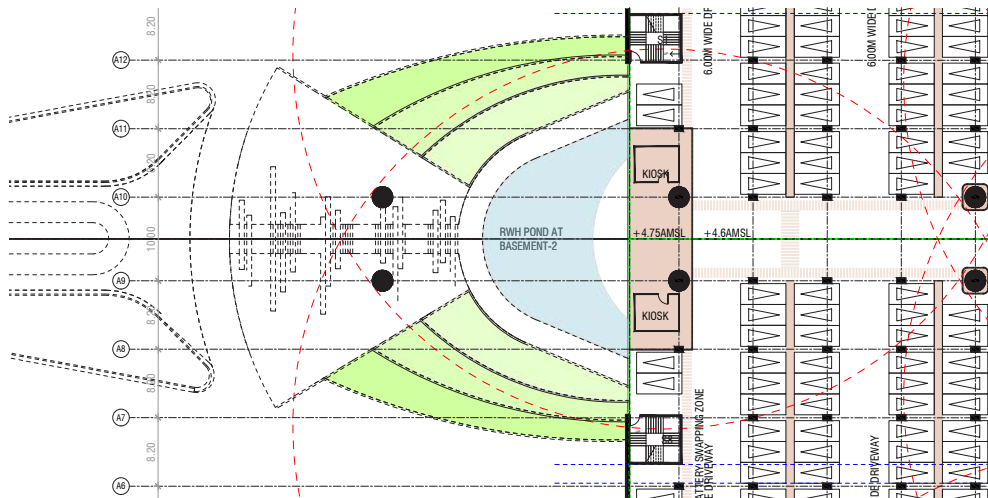
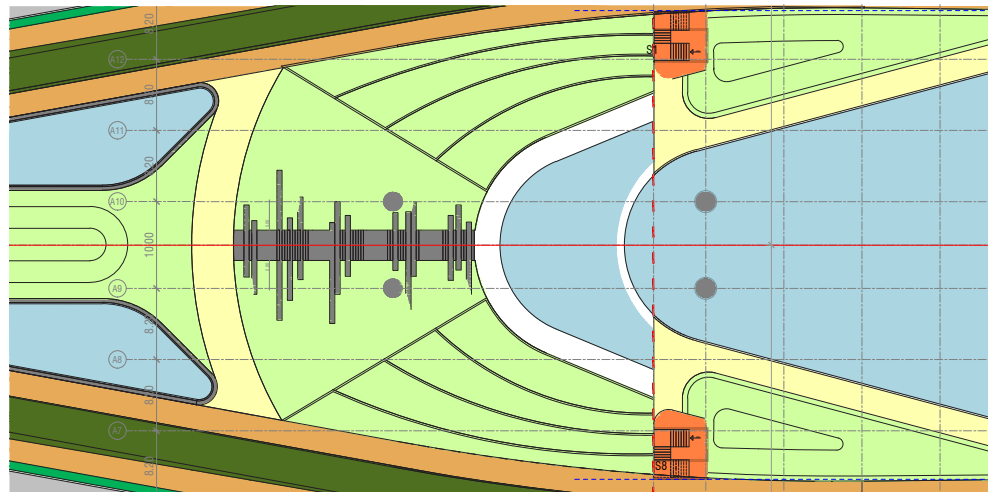
STATUS: CONCEPT DESIGN

DRAWING TITLE:
BASEMENT 2 LEVEL PLAN



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

PARKING COUNT	
2 WHEELER PARKING	262
CAR PARKING	624
EV CAR PARKING	42
ACCESSIBLE PARKING	24
TOTAL	573



NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: CENTRAL TERMINAL COMPLEX

STATUS: CONCEPT DESIGN

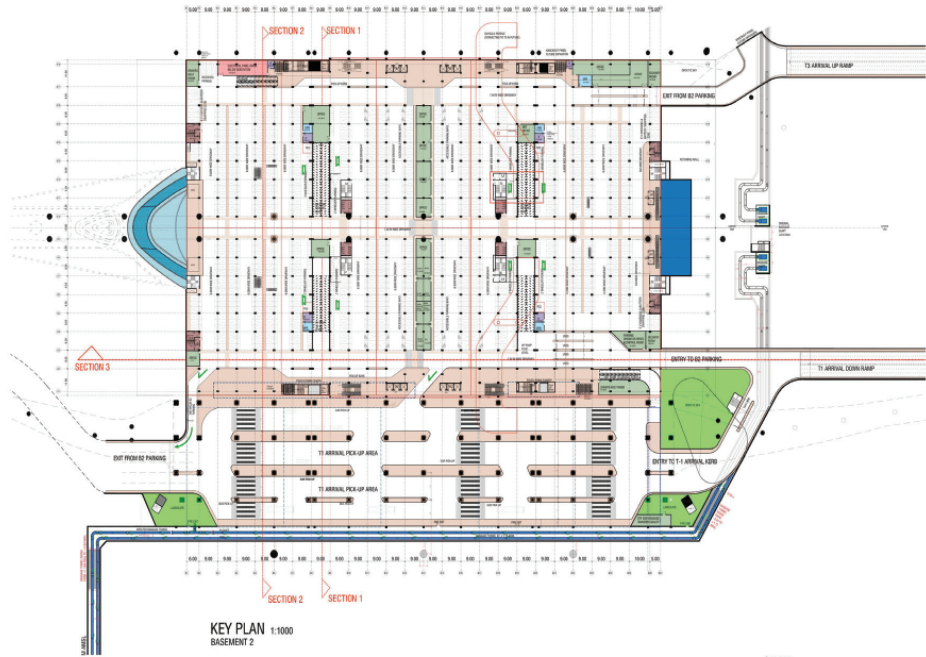
DRAWING TITLE:
AMPHITHEATRE PLAN AND SECTION

PROJECTION

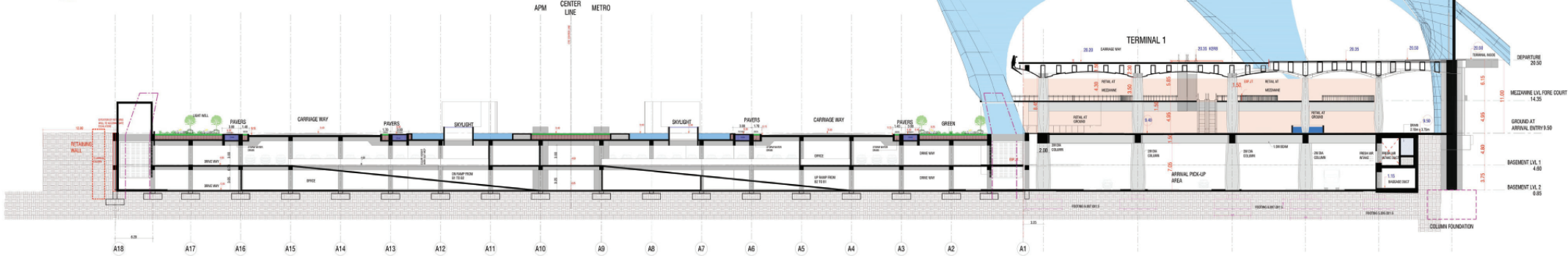


RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

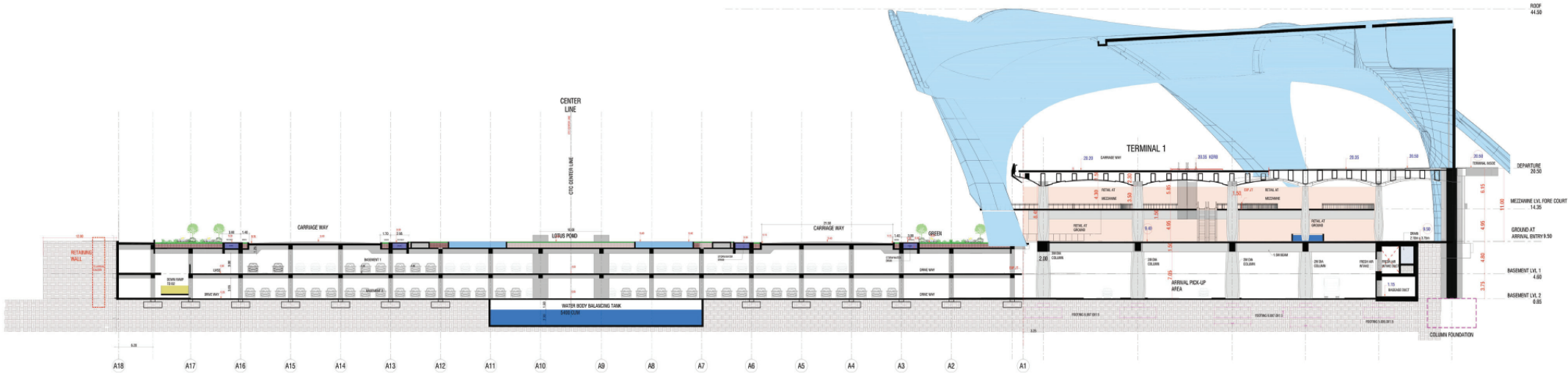
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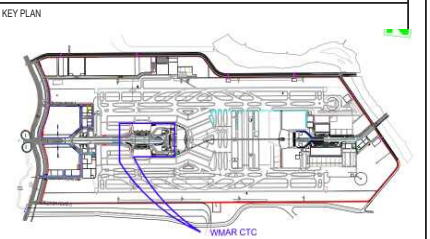
KEY PLAN
BASEMENT 2
1:1000



SECTION 1
1:250 SCALE



SECTION 2
1:250 SCALE



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: CENTRAL TERMINAL COMPLEX

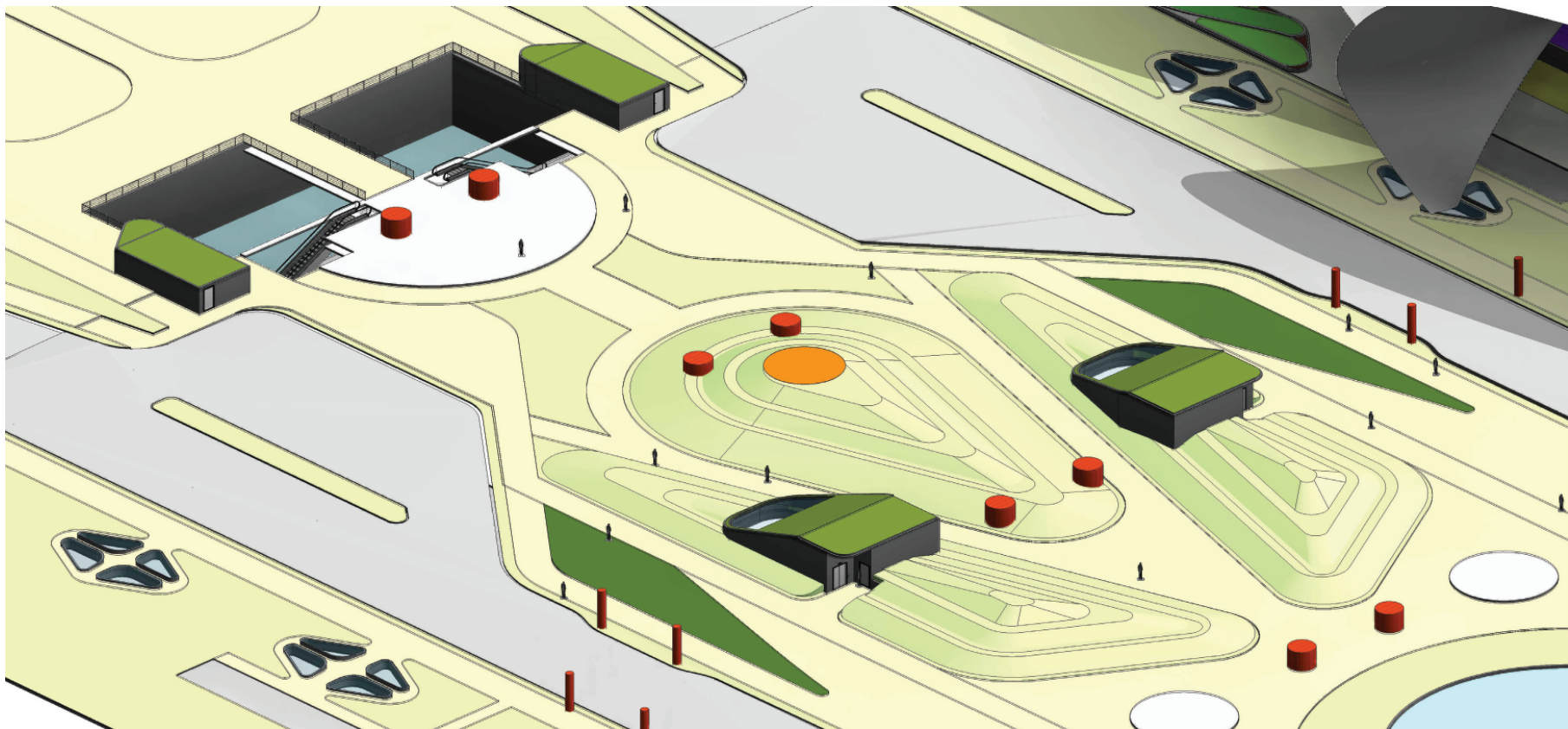
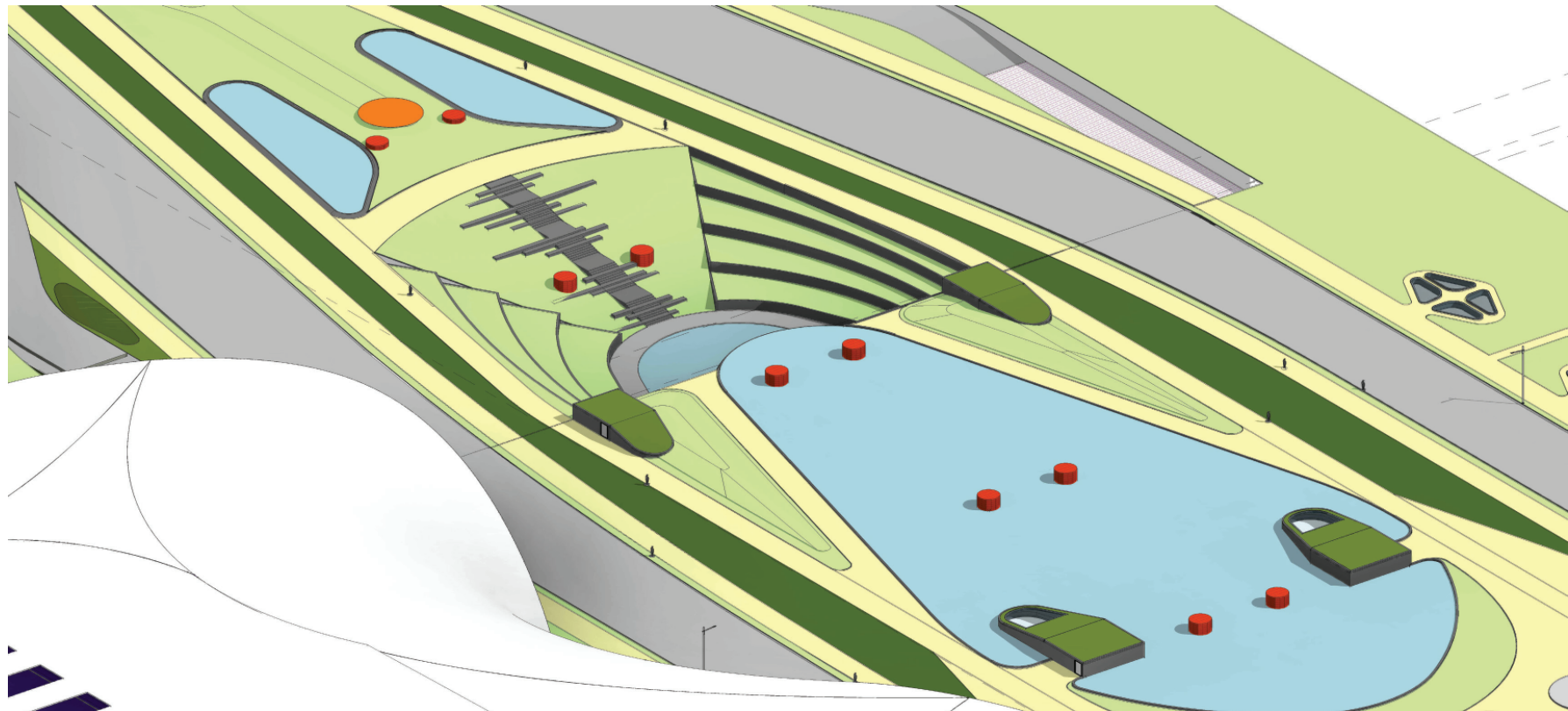
STATUS: COCEPT DESIGN

DRAWING TITLE:
SECTIONS



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

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KEY PLAN



NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 **Engineering Design and Research Centre
(EDRC)**

PROJECT: CENTRAL TERMINAL COMPLEX

STATUS: CONCEPT DESIGN

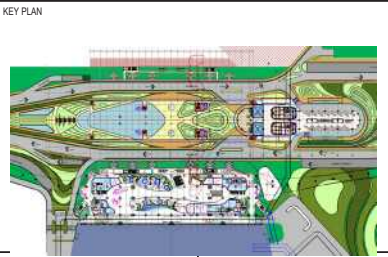
DRAWING TITLE:
VIEWS

PROJECTION



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

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NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
DEVELOPMENT OF
NAVI MUMBAI INTERNATIONAL AIRPORT
ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: CENTRAL TERMINAL COMPLEX

STATUS: CONCEPT DESIGN

DRAWING TITLE:
VIEWS

PROJECTION



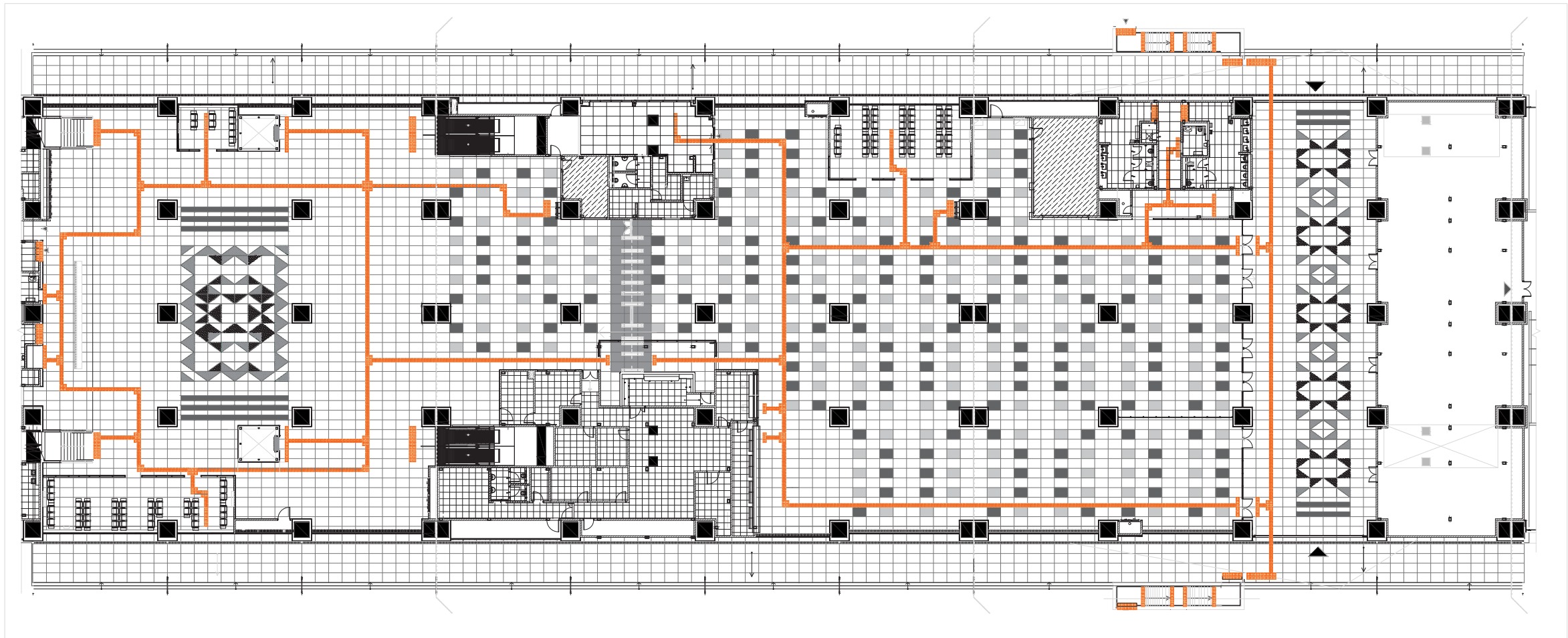
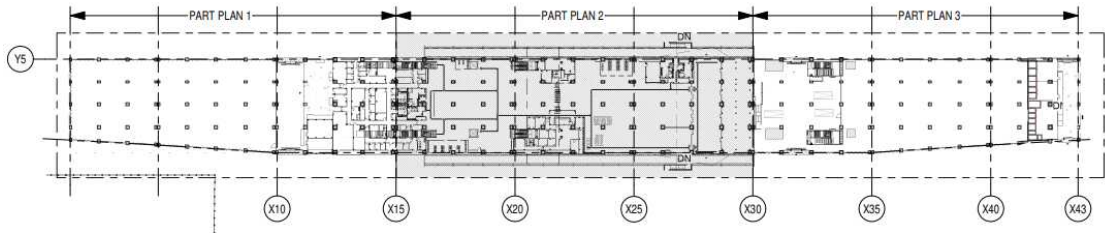
RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

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**MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT
BHARUCH STATION**

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LEGEND:	
	COMMANDER GREY (BASE)
	COLONIAL WHITE GRANITE
	HASSAN GREEN GRANITE

KEY PLAN:

MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT
Package No. MAHSR - C - 4 (Km.156.600 - Km.393.700)

NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT

ARCHITECTS & ENGINEERS:

Engineering Design and Research Centre
(EDRC)

PROJECT: BHARUCH STATION

STATUS: GOOD FOR CONSTRUCTION

DRAWING TITLE:
LEVEL 0 FLOORING PLAN

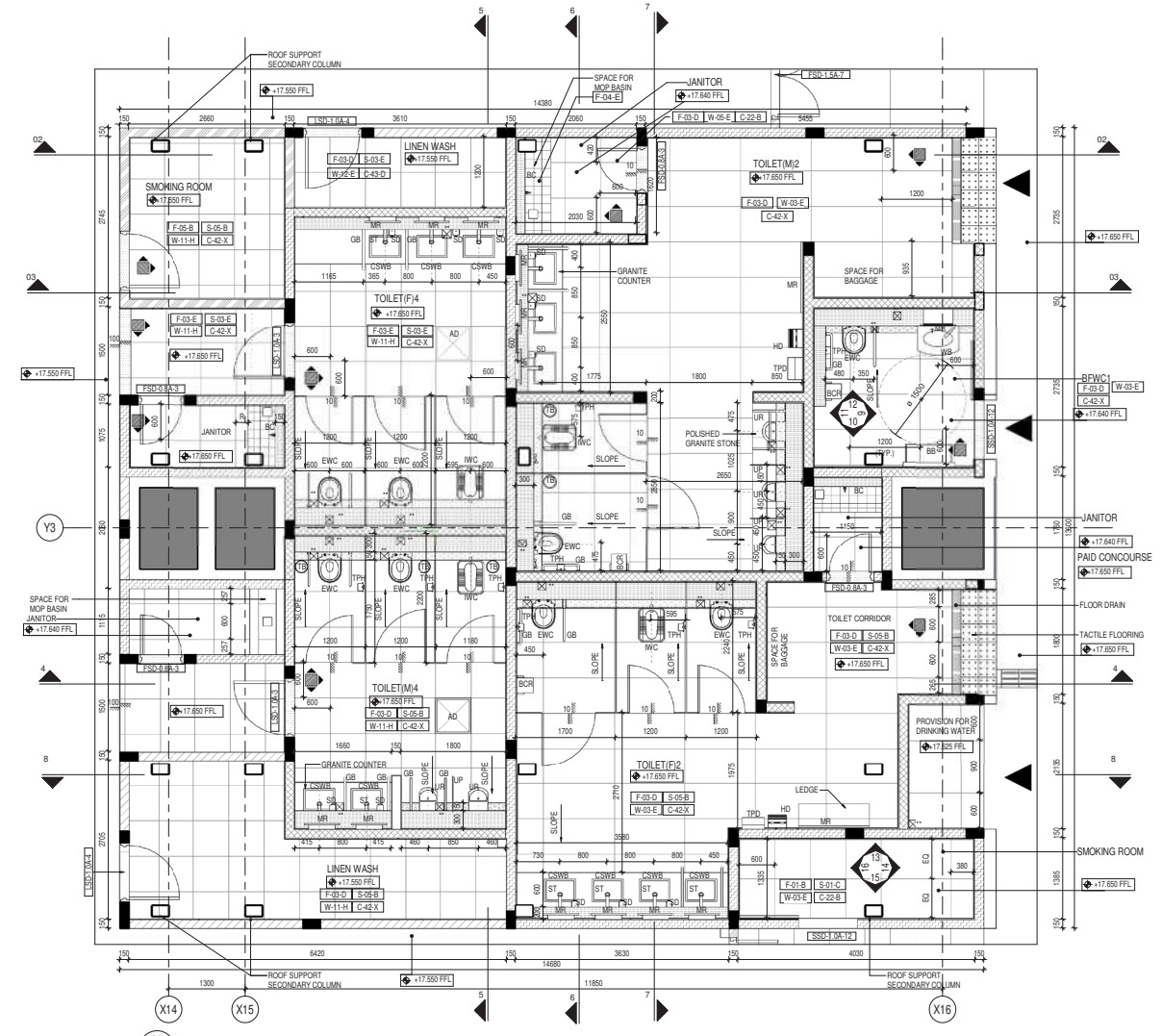
PROJECTION

RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

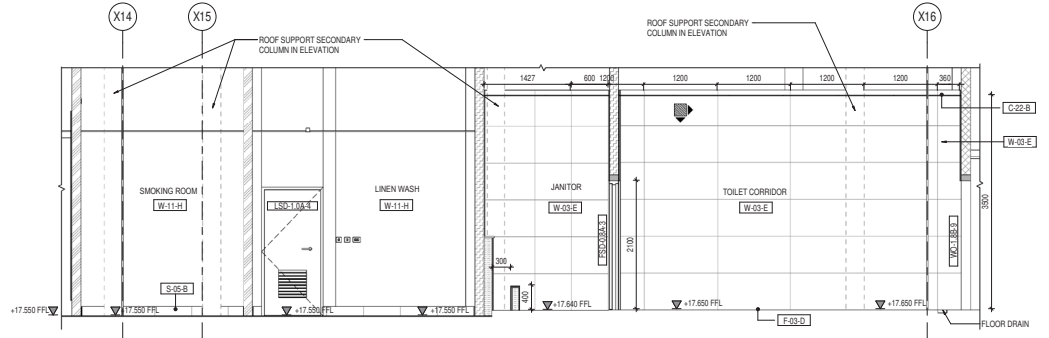
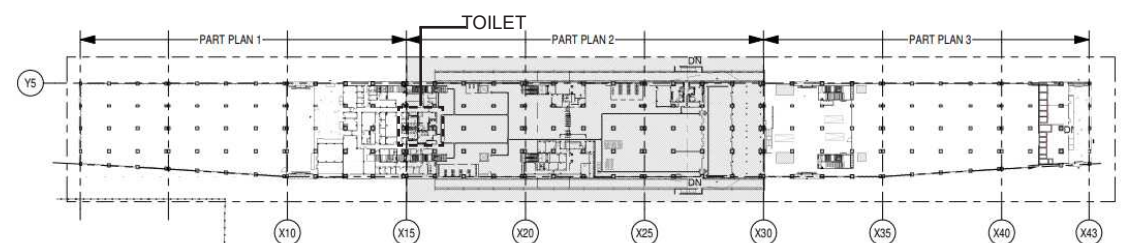
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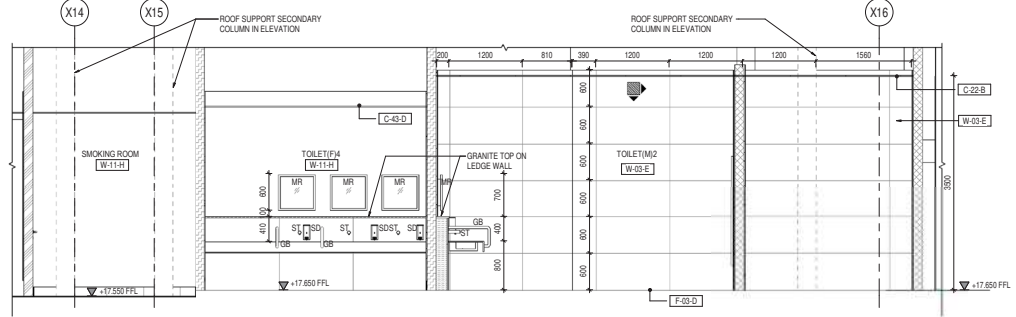
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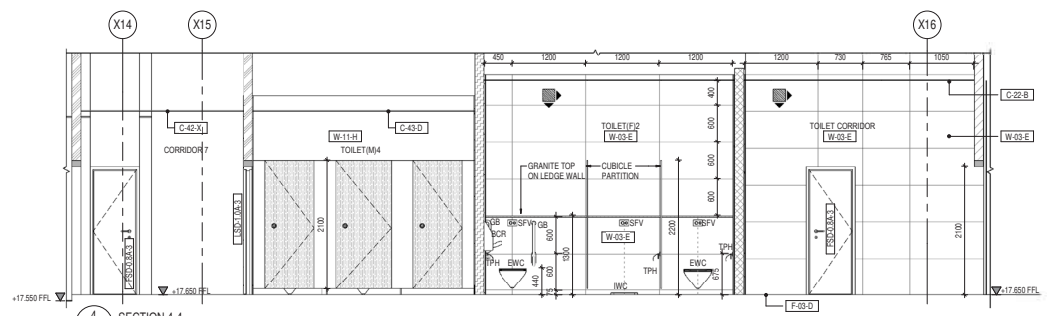
01 GROUND FLOOR TOILET-1 DETAIL PLAN
18095 1 : 50 (TOILETS - M2, M4, F2 & F4)



02 SECTION 2-2
18095 1 : 50



03 SECTION 3-3
18095 1 : 50



04 SECTION 4-4
18095 1 : 50

FLOOR FINISHES SCHEDULE		WALL FINISHES SCHEDULE		SKIRTING FINISHES SCHEDULE		CEILING FINISHES SCHEDULE	
TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
(F-03-E)	GLAZED VITRIFIED TILE	(S-03-E)	GLAZED VITRIFIED TILE	(W-03-E)	GLAZED VITRIFIED TILE: 1200MM X 600MM	(C-03-E)	FIRE RATED ALUMINUM COMPOSITE PANEL COATED WITH FLUOROPOLYMER PAINT
(F-03-D)	ANTISKID VITRIFIED TILE	(S-03-C)	POLISHED GRANITE	(W-04-E)	GLAZED CERAMIC TILE	(C-04-E)	MINERAL FIBRE CEILING
(F-04-E)	GLAZED CERAMIC TILE	(S-03-B)	HONED KOTA STONE	(W-05-E)	GLAZED VITRIFIED TILE: 600MM X 600MM	(C-05-E)	CALCIUM SILICATE BOARD WITH EMULSION PAINT
(F-01-B)	HONED FINISH GRANITE	(S-03-C)	POLISHED KOTA STONE	(W-11-H)	WALL WITH EMULSION PAINT		
(F-05-C)	POLISHED KOTA STONE			(W-01-C)	POLISHED GRANITE		
(F-01)	RAISED ACCESS FLOORING			(W-09)	HPL PANELING		

LEGEND	
FFL	FINISHED FLOOR LEVEL
TOC	TOP OF CONCRETE
BOFC	BOTTOM OF FALSE CEILING
GRID LINES	GRID LINES
REFERENCE LINES	REFERENCE LINES
START TILE	START TILE
FLOOR DROP	FLOOR DROP
RESIDUE TILE	RESIDUE TILE
EQ	EQUAL LENGTH

WALL INDEX	
PATTERN	DESCRIPTION
(Pattern)	A.L.O.S WALL-150MM SH/S FIRE RATED
(Pattern)	A.L.O.S WALL-150MM NON FIRE RATED
(Pattern)	AAC BLOCK WALL-150MM FIRE RATED
(Pattern)	AAC BLOCK WALL-150MM NON FIRE RATED
(Pattern)	LEDGE WALL
(Pattern)	STAINLESS STEEL GUTTER (150 & 100MM WIDE)
(Pattern)	COLUMN CLADDING
(Pattern)	GRANITE THRESHOLD
(Pattern)	R.C.C.
(Pattern)	LACQUERED GLASS
(Pattern)	PROVISION

KEY PLAN

MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT
Package No. MAHSR - C - 4 (Km.156.600 - Km.393.700)

NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT: MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT

ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre (EDRC)

PROJECT: BHARUCH STATION

STATUS: GOOD FOR CONSTRUCTION

DRAWING TITLE:
TOILET DETAILED PLAN AND SECTION

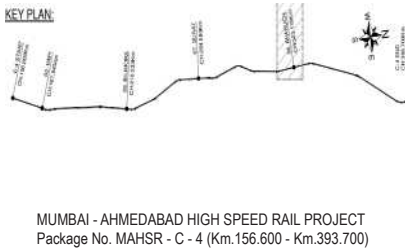
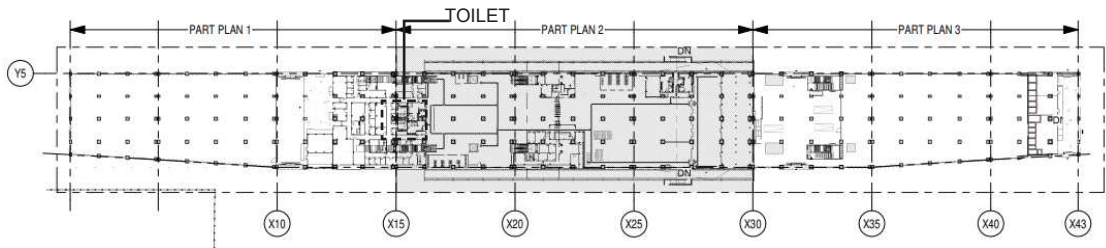
PROJECTION

RELEASED FOR

☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

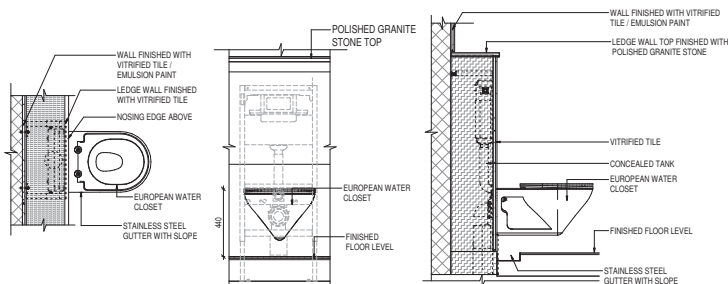
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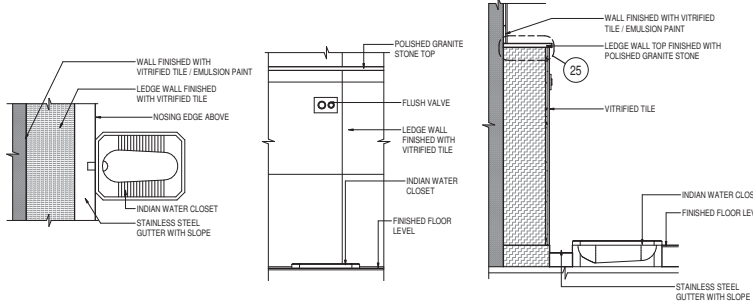


MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT
Package No. MAHSR - C - 4 (Km.156.600 - Km.393.700)

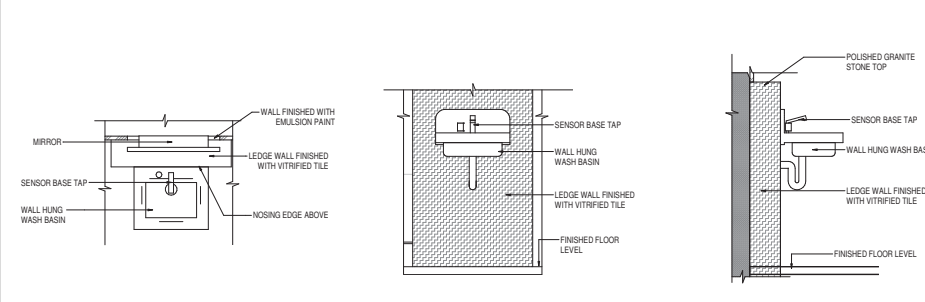
NORTH



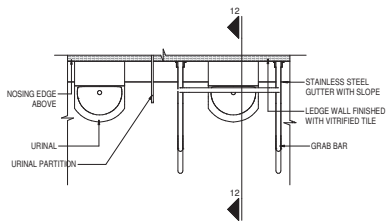
EUROPEAN WATER CLOSET DETAILS (SCALE 1:20)



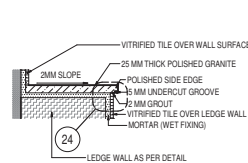
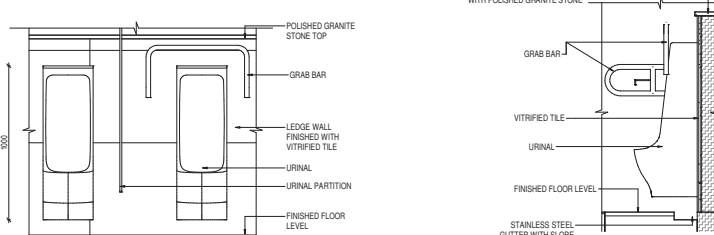
INDIAN WATER CLOSET DETAILS (SCALE 1:20)



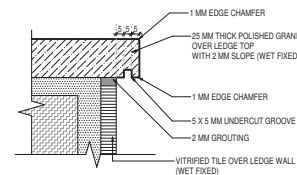
WASH BASIN UNIT (FIRST AID ROOM, YARD FOR STATION CLEANING EQUIPMENT AND STATION CLEANING STAFF) - (SCALE 1:20)



URINAL DETAILS (SCALE 1:20)

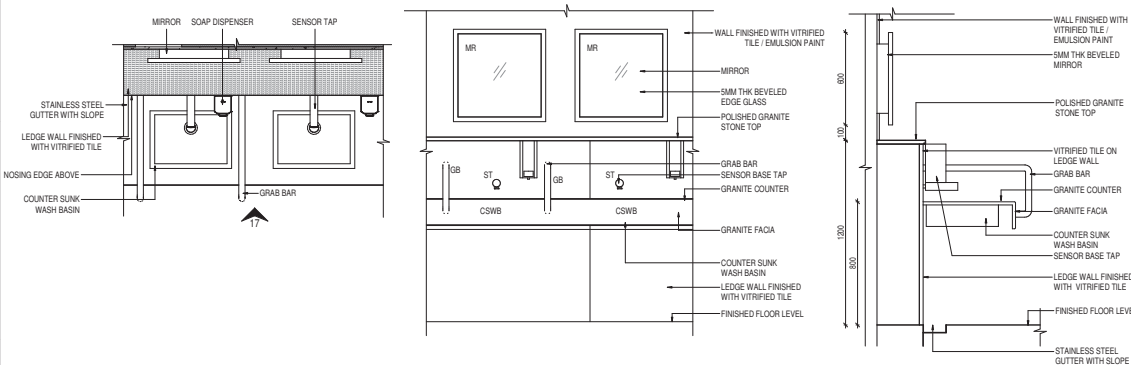


GRANITE TOP

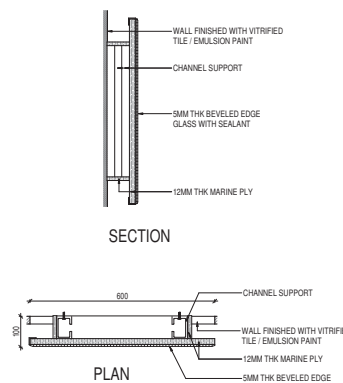


TYPICAL EDGE NOSING DETAIL

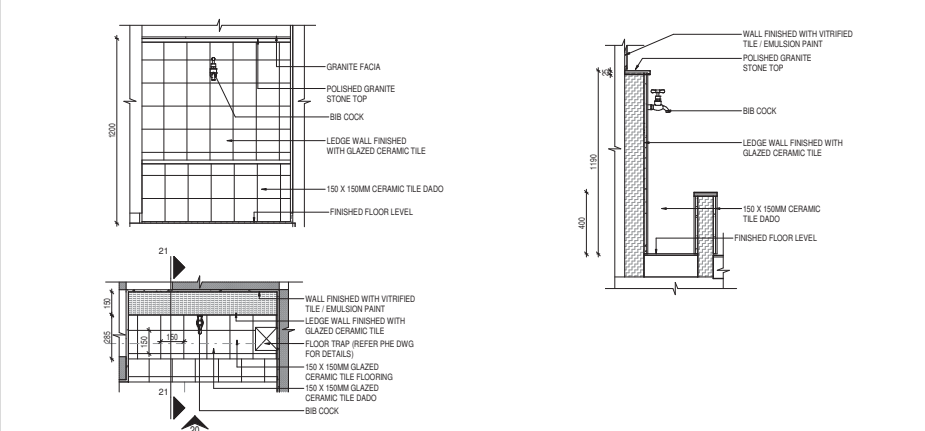
LEDGE GRANITE STONE TOP DETAILS



WASH BASIN DETAILS (SCALE 1:20)



MIRROR DETAILS (SCALE 1:10)



MOP BASIN DETAILS (SCALE 1:20)

FLOOR FINISHES SCHEDULE		WALL FINISHES SCHEDULE		SKIRTING FINISHES SCHEDULE		CEILING FINISHES SCHEDULE	
TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
(F-03-1)	GLAZED VITRIFIED TILE	(W-03-1)	GLAZED VITRIFIED TILE	(W-03-1)	GLAZED VITRIFIED TILE - 1200MM X 600MM	(C-03-1)	FIRE RATED ALUMINIUM COMPOSITE PANEL COATED WITH FLUOROPOLYMER PAINT
(F-03-2)	ANTI-SKID VITRIFIED TILE	(W-03-2)	POLISHED GRANITE	(W-03-2)	GLAZED CERAMIC TILE - 600MM X 600MM	(C-03-2)	MINERAL FIBRE CEILING
(F-04-1)	GLAZED CERAMIC TILE	(W-04-1)	HONED KOTA STONE	(W-04-1)	GLAZED CERAMIC TILE - 600MM X 600MM	(C-04-1)	CALCIUM SULFATE BOARD WITH EMULSION PAINT
(F-05-1)	HONED FINISH GRANITE	(W-05-1)	POLISHED KOTA STONE	(W-05-1)	WALL WITH EMULSION PAINT	(C-05-1)	150 X 150MM GLAZED CERAMIC TILE FLOORING
(F-06-1)	POLISHED KOTA STONE	(W-06-1)	POLISHED GRANITE	(W-06-1)	POLISHED GRANITE	(C-06-1)	150 X 150MM GLAZED CERAMIC TILE DADO
(F-07-1)	RAISED ACCESS FLOORING			(W-07-1)	HPL PANELING		BIB COOK

LEGEND	
FFL	FINISHED FLOOR LEVEL
TOC	TOP OF CONCRETE
BOFC	BOTTOM OF FALSE CEILING
GL	GRID LINES
RL	REFERENCE LINES
ST	START TILE
FD	FLOOR DROP
R	RESIDUE TILE
EL	EQUAL LENGTH

WALL INDEX	
PATTERN	DESCRIPTION
(W-03-1)	ALG WALL-150MM-2HRS FIRE RATED
(W-03-2)	ALG WALL-150MM-NON FIRE RATED
(W-04-1)	AAC BLOCK WALL-150MM FIRE RATED
(W-04-2)	AAC BLOCK WALL-150MM NON FIRE RATED
(W-05-1)	LEDGE WALL
(W-05-2)	STAINLESS STEEL GUTTER (150 & 100MM WIDE)
(W-06-1)	COLUMN CLADDING
(W-06-2)	GRANITE THRESHOLD
(W-07-1)	R.C.C.
(W-07-2)	LACQUERED GLASS
(W-07-3)	PROVISION

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT

ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre (EDRC)

PROJECT: BHARUCH STATION

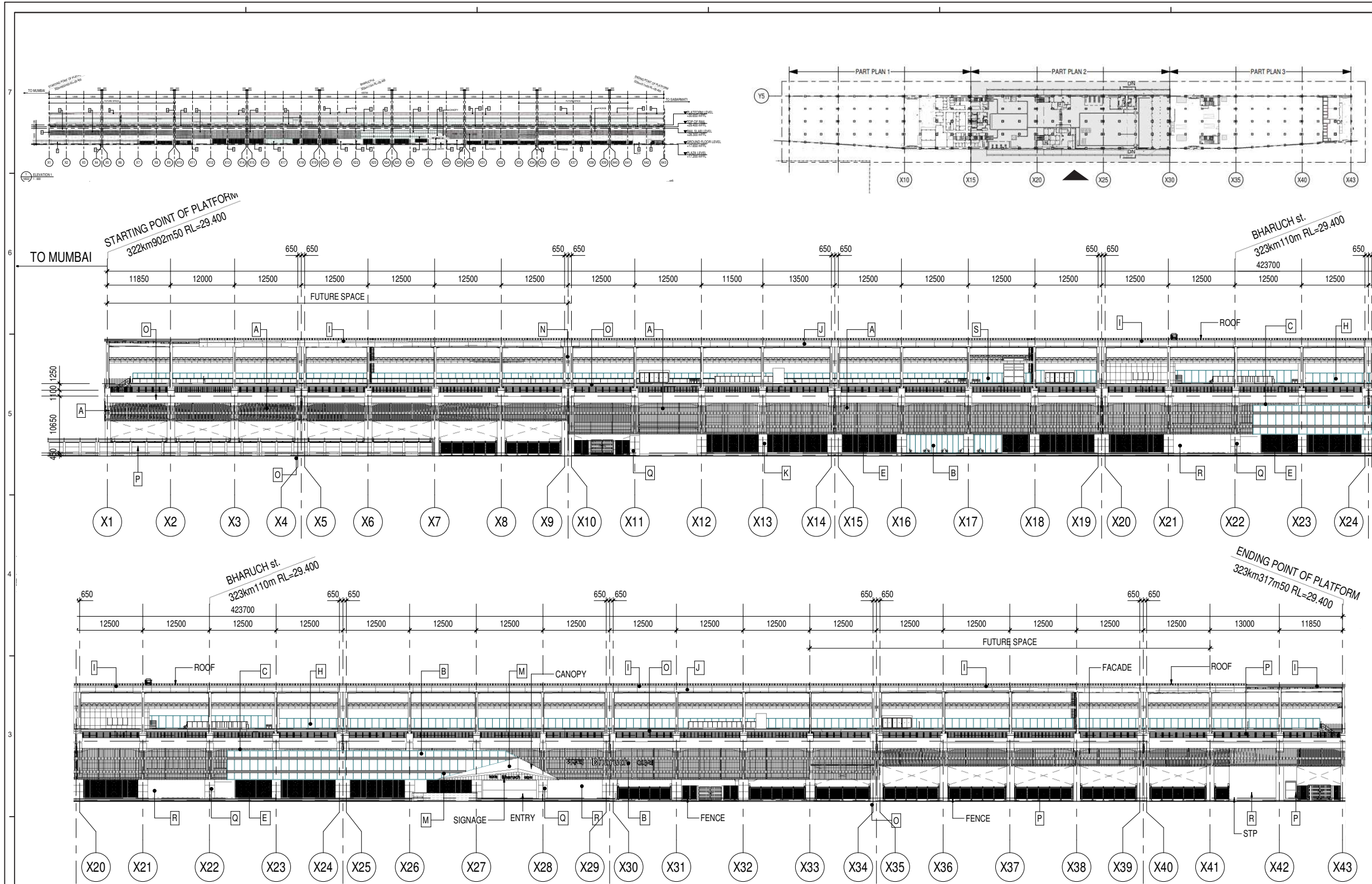
STATUS: GOOD FOR CONSTRUCTION

DRAWING TITLE:
TOILET TYPICAL DETAIL



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

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FACADE LEGEND

- | | | |
|--|--|--|
| A : FIRE RATED ALUMINIUM DESIGN LOUVRE COATED WITH FLUORORESIN PAINT (HORIZONTAL MIRROR FINISH 50x400 , VERTICAL 55x100@305 | H : FALL PREVENTIVE SCREEN H2000 | O : FLUORORESIN COATING CONCRETE STRUCTURE (EXTERIOR AND INTERIOR) (DARK GRAY) |
| B : LAMINATED FLOAT GLASS T=8+8 POINT FRAME GLAZING SYSTEM WALL (PFG GLASS WALL) FLOURORESIN COATED ALUMINIUM SASH | I : PVDF/FLUORORESIN COATED CORRUGATED GALVALUME STEEL SHEET ROOFING T=0.8 INTERLOCKING CONCEALED FIXING SYSTEM H 160 @500 | P : FENCE AND GATE |
| C : MIRROR FINISHED FLUORORESIN COATED FIRE RATED ALUMINIUM DESIGN LOUVRE | J : FIRE RATED ALUMINIUM COMPOSITE PANEL COATED WITH FLUORORESIN PAINT (UNDER THE EAVES) | Q : POLISHED FINISH MARBLE STONE (WHITE) |
| D -NA- | K : ACRYLIC SHADE (SPECIAL ORDER) | R : EXTRUDED CEMENT PANEL (ECP- TROWEL FINISH WITH PLASTIC EMULSION PAINT |
| E : GLASSFIBER REINFORCED CEMENT PERFORATED WALL (JAALI WALL) | M : STAINLESS STEEL COMPOSITE PANEL T=4 DULL FINISH | S : GLASS SCREEN H 2500 |
| F : FLOURORESIN COATED FIRE RATED ALUMINIUM HONEYCOMB PANEL T=100 (EAVES) | N : FLUORORESIN COATED STEEL (COLUMN) | |
| G -NA- | | |

KEY PLAN

MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT
Package No. MAHSR - C - 4 (Km.156.600 - Km.393.700)

NORTH

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre (EDRC)

PROJECT: BHARUCH STATION

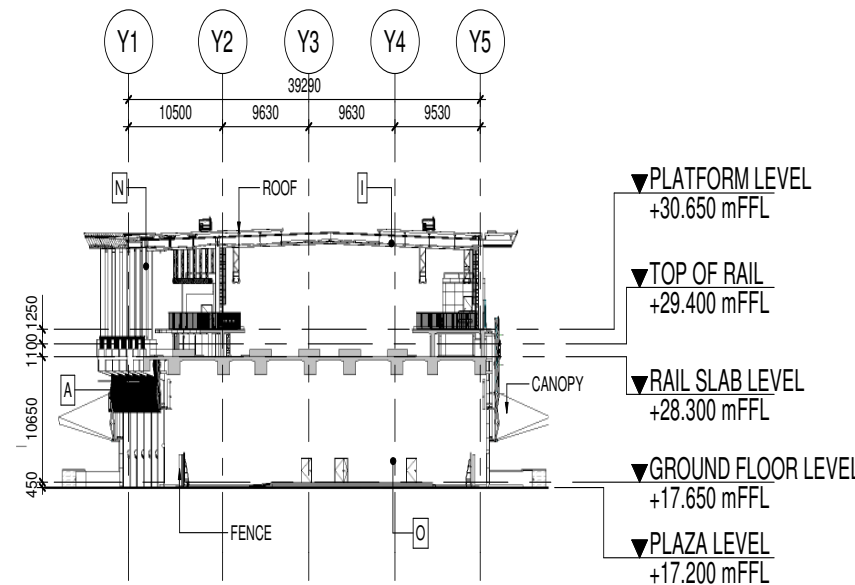
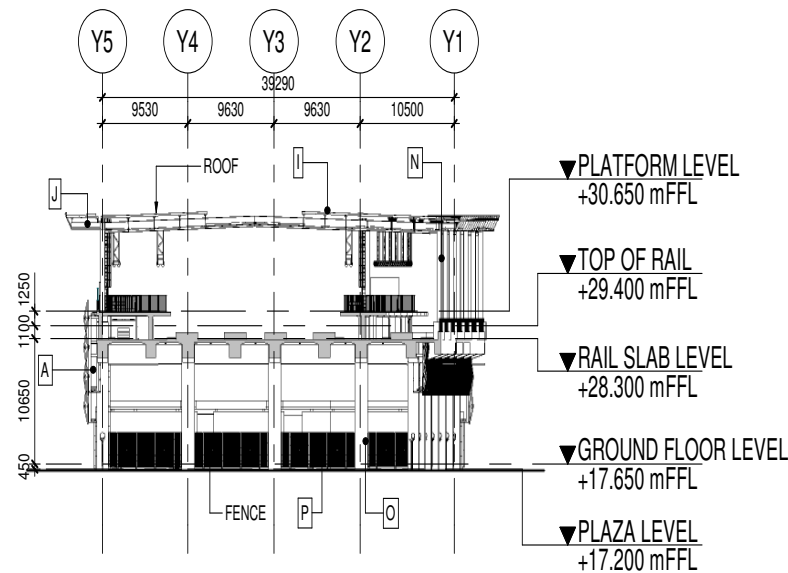
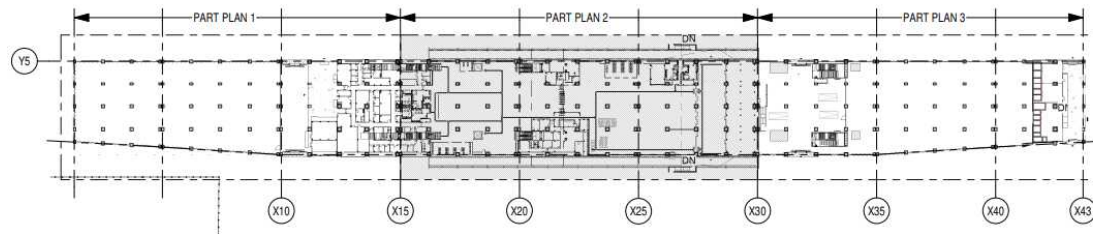
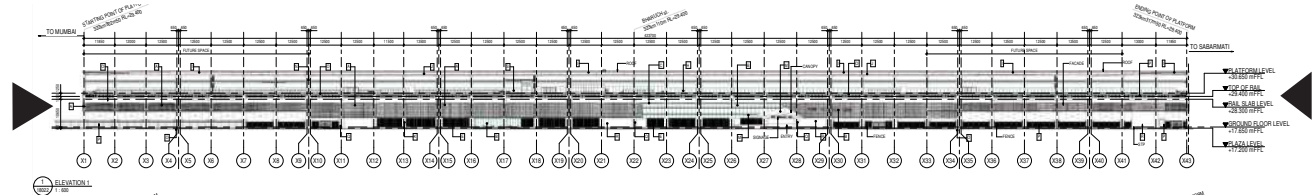
STATUS: GOOD FOR CONSTRUCTION

DRAWING TITLE:
ELEVATION 1

PROJECTION

RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

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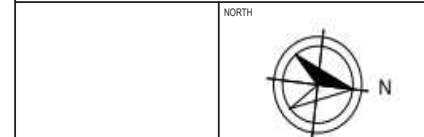
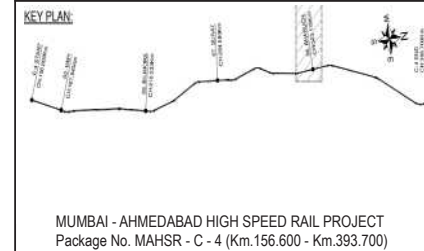
FACADE LEGEND

- A : FIRE RATED ALUMINIUM DESIGN LOUVRE COATED WITH FLUORORESIN PAINT (HORIZONTAL MIRROR FINISH 50x400 , VERTICAL 55x100@305)
B : LAMINATED FLOAT GLASS T=8+8 POINT FRAME GLAZING SYSTEM WALL (PFG GLASS WALL) FLOURORESIN COATED ALUMINIUM SASH
C : MIRROR FINISHED FLUORORESIN COATED FIRE RATED ALUMINIUM DESIGN LOUVRE
D -NA-
E : GLASSFIBER REINFORCED CEMENT PERFORATED WALL (JAALI WALL)
F : FLOURORESIN COATED FIRE RATED ALUMINIUM HONEYCOMB PANEL T=100 (EAVES)
G -NA-

- H : FALL PREVENTIVE SCREEN H2000
I : PVDF/FLUORORESIN COATED CORRUGATED GALVALUME STEEL SHEET ROOFING T=0.8 INTERLOCKING CONCEALED FIXING SYSTEM H 160 @500
J : FIRE RATED ALUMINIUM COMPOSITE PANEL COATED WITH FLUORORESIN PAINT (UNDER THE EAVES)
K : ACRYLIC SHADE (SPECIAL ORDER)
M : STAINLESS STEEL COMPOSITE PANEL T=4 DULL FINISH
N : FLUORORESIN COATED STEEL (COLUMN)

- O : FLUORORESIN COATING CONCRETE STRUCTURE (EXTERIOR AND INTERIOR) (DARK GRAY)
P : FENCE AND GATE
Q : POLISHED FINISH MARBLE STONE (WHITE)
R : EXTRUDED CEMENT PANEL (ECP - TROWEL FINISH WITH PLASTIC EMULSION PAINT)
S : GLASS SCREEN H 2500

LEVEL NAME	MSL	HEIGHT
TOP OF TRUSS	+ 38.800	+ 21.150
PLATFORM LEVEL	+ 30.650	+ 13.000
TOP OF RAIL	+ 29.400	+ 11.750
RAIL SLAB LEVEL	+ 28.300	+ 10.650
SECONDARY ROOF SLAB LEVEL	+ 22.600	+ 04.950
GROUND FLOOR LEVEL	+ 17.650	± 00.000
PLAZA LEVEL	+ 17.200	- 00.450
FORMED GROUND LEVEL	+ 16.100	- 01.350
MSL = MEAN SEA LEVEL		HEIGHT (IN METERS)



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
MUMBAI - AHMEDABAD HIGH SPEED RAIL PROJECT

ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre (EDRC)

PROJECT: BHARUCH STATION

STATUS: GOOD FOR CONSTRUCTION

DRAWING TITLE:
ELEVATION - 2



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

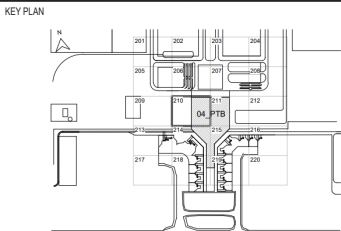
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An architectural rendering of a large, modern airport terminal building. The building features a long, rectangular structure with a series of large, curved, white, shell-like roof sections that create a rhythmic pattern. The facade is composed of glass panels. In the foreground, there is a large, open plaza with a grid-like pattern of light and dark sections. To the left, there are several large, white, oval-shaped structures, possibly parking areas or smaller terminal buildings. The background shows a wide, flat landscape with some distant structures and a clear sky.

INTERNATIONAL AIRPORT VISAKHAPATNAM PROJECT TENDER PROJECT

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L&T CONSTRUCTIONS										
GVIAL AIRPORT										
PTB- PROCESSOR										
Architectural Quantity Summary										
S.No	Description	Unit	TUNNEL	LEVEL-0	LEVEL-M0	LEVEL-1	LEVEL-2	Quantity	Unit	Quantity
1. BLOCK WORK										
a	External Block Work									
1	200mm block work	sq.m		2901.00		1066	741.5	4708.50	cu.m	941.7
b	Internal Block Work									
1	200mm block work	sq.m	240	22607.00		11908	5897.8	40652.80	cu.m	8130.56
2	100mm block work	sq.m		389.00		128.25	0	517.25	cu.m	51.725
3	150mm block work	sq.m		1113.00		330.3	85.7	1529.00	cu.m	229.35
	TOTAL							45053.30	cu.m	9353.335
PLASTERING										
1	Internal Plastering	sq.m	480	39370.97	0.00	13391.49	14493.68	67736.14		
2. INTERNAL FINISH										
FLOORING FINISH										
1	Ceramic tile- F08	sq.m		2603.5		1002.8	1062.4	4668.70		
2	Anti skid vitrified porcelain - F01	sq.m		1995.20		731	806.9	3533.10		
3	Anti-static raised flooring -F11	sq.m		220.00				220.00		
4	Anti-static rubberized -F12	sq.m		355.10		145	102.7	602.80		
5	Broom finished concrete-F30	sq.m		4630.00				4630.00		
6	Concrete flooring with epoxy coating -F09	sq.m		1898.64		1037	1027.3	3962.94		
7	Concrete sealer -F10	sq.m		1750.60		319	63.1	2132.70		
8	Entrance floor mat and grille- F16	sq.m		210.00				210.00		
9	Granite stone flooring customized pattern - F03	sq.m		129.00				129.00		
10	Marble stone flooring -F04	sq.m		160.00		151.1	1647.8	1958.90		
11	Cement Concrete Waterproofing - F14	sq.m		56.24			24.5	80.74		
12	Granite stone flooring tiles- F02	sq.m		12738.00		217.4	14036.7	26992.10		
								49120.98		
CEILING FINISH										
1	Customized perforated metal baffle ceiling system-C03	sq.m		243.00		184		427.00		
2	Customized perforated metal ceiling-C02	sq.m		12913.00		126.5	126.2	13165.70		
3	exposed concrete with skim coat-C06	sq.m		2839.50		447	429.3	3715.80		
4	Moisture resistant gypsum board ceiling -C05	sq.m		1599.00		498.3	696.3	2793.60		
5	perforated metal ceiling-C01	sq.m		4145.20		1861	4509.75	10515.95		
								30618.05		
WALL FINISH										
1	Anti-static paint - P08	sq.m		2093.75		489.5	434	3017.25		
2	Ceramic tile - P04	sq.m		639.99		446	589.83	1675.82		
3	Emulsion paint-P06	sq.m		10934.00		7994	8233.2	27161.20		
4	Fibre cement panels - P01	sq.m		630.87		368.3	815.7	1814.87		
5	Porcelain tile -P05	sq.m		3187.56		608.5	1123.15	4919.21		
6	Shop frontage-P03	sq.m		208.01				208.01		



NORTH



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

STATUS: FOR TENDER

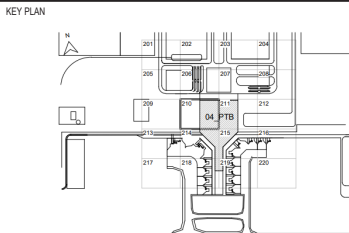
DRAWING TITLE:
BILL OF QUANTITY ABSTRACT



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

7	White wash -P07	sq.m		7625.80		325.89	526.2	8477.89		
8	Fibre cement panels(FOH) - P01	sq.m		14051		3159.3	2771.6	19981.90		
								67256.14		
BASE FINISH -SKIRTING										
1	Ceramic tile	sq.m		157.50				157.50		
2	Paint finish with integrated flooring coved skirting	sq.m		75.38				75.38		
3	Porcelain Tile	sq.m		239.61				239.61		
4	Stainless steel skirting	sq.m		81.70				81.70		
5	Wood skirting	sq.m		198.00				198.00		

PTB- PIER										
Architectural Quantity Summary										
S.No	Description	Unit	TUNNEL	LEVEL-0	LEVEL-M0	LEVEL-1	LEVEL-2	Quantity	Unit	Quantity
1. BLOCK WORK										
a	External Block Work									
1	200mm block work	sq.m		2537.60				2537.60	cu.m	507.52
								0.00		
b	Internal Block Work							0.00		
1	200mm block work	sq.m		4366.00		2730.24	535	7631.24	cu.m	1526.248
2	100mm block work	sq.m		238.52		7.4		245.92		245.92
3	150mm block work	sq.m		119.33				119.33	cu.m	17.8995
	TOTAL	sq.m						10534.09		1790.068
2. INTERNAL FINISH										
FLOORING FINISH										
1	Ceramic tile- F08	sq.m		122.19		59.6		181.79		
2	Anti skid vitrified porcelain - F01	sq.m		56.57		208.5	132.6	397.67		
3	Anti-static rubberized -F12	sq.m		60.70		0	12.3	73.00		
4	Concrete flooring with epoxy coating -F09	sq.m		44.50				44.50		
5	Concrete sealer -F10	sq.m		1089.10		16.8	10.5	1116.40		
6	Granite stone flooring customized pattern - F03	sq.m		11.25				11.25		
7	Raised Access Flooring With Carpet Tile -F06	sq.m		0.00				0.00		
8	Marble stone flooring -F04					1496.7		1496.70		
9	Granite stone flooring tiles- F02					13547.3		13547.30		
10	Cement concrete waterproofing(F14)						4.2	4.20		
								16872.81		
CEILING FINISH										
1	Customized perforated metal baffle ceiling system-C03	sq.m		0.00				0.00		
2	exposed concrete with skim coat-C06	sq.m		867.00		56.7	93.2	1016.90		
3	Moisture resistant gypsum board ceiling -C05	sq.m		4.70		198		202.70		
4	perforated metal ceiling-C01	sq.m		140.59		2733.4	66.4	2940.39		
								4159.99		
WALL FINISH										
1	Anti-static paint - P08	sq.m		118.90			55.5	118.90		
2	Emulsion paint-P06	sq.m		535.96		400.8	161.6	535.96		
3	Shop frontage-P03	sq.m		0.00				0.00		



ARCHITECT SEAL:

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VISAKHAPATNAM

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 Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

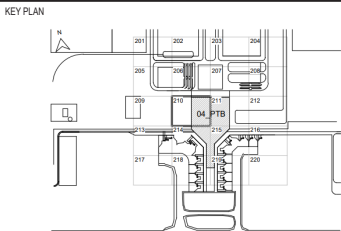
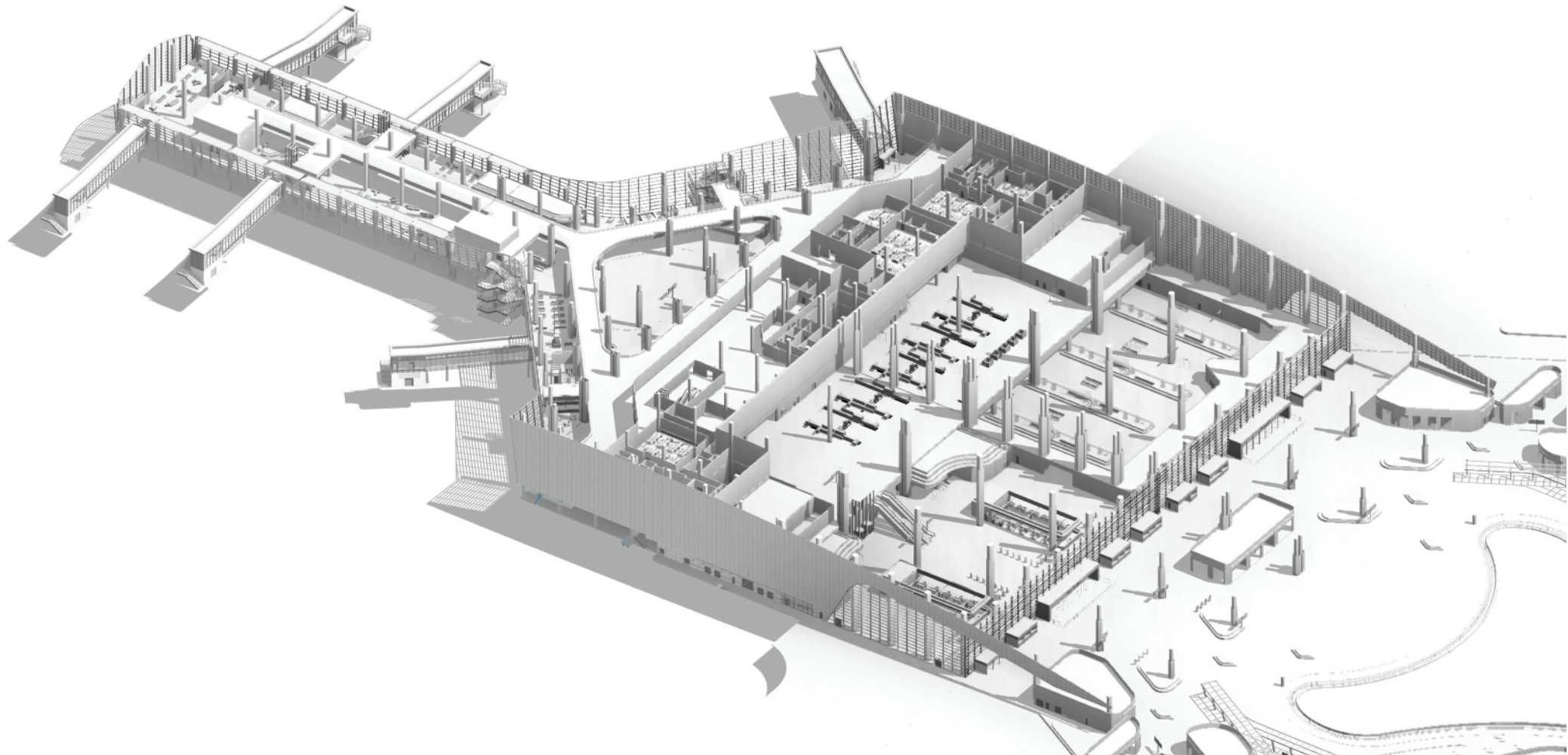
STATUS: FOR TENDER

DRAWING TITLE:
BILL OF QUANTITY ABSTRACT



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

4	White wash -P07	sq.m		528.52		258.21	57.9	528.52		
5	Fibre cement panels (P01)					411				
6	Ceramic tiles (P04)					49.6	56.25			
7	Porcelain tile(P05)					336.45				
BASE FINISH										
1	Ceramic tile	sq.m		0.00						
2	Porcelain Tile	sq.m		0.00				0.00		
3	Wood skirting	sq.m		3.70				3.70		
5. JOINERY										
1	A01	Metal Single Swing Door					1*2.1	37		
2	A01 A	Metal Single Swing Door					0.6*2.1	4		
3	A01 B	Metal Single Swing Door					0.8*2.1	5		
4	A20	Metal Double Swing Door					2.1*2.1	15		
5	A20 A	Metal Double Swing Door					2.5*2.1	7		
6	A20 B	Metal Double Swing Door					1.1*2.1	26		
13	C31	Glass Double 2 Ways Swing Door					1*2.1	4		
15	E01						2.5*3	3		
16	WN01	Window Fixed-Panel						10		



NORTH



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BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

STATUS: FOR TENDER

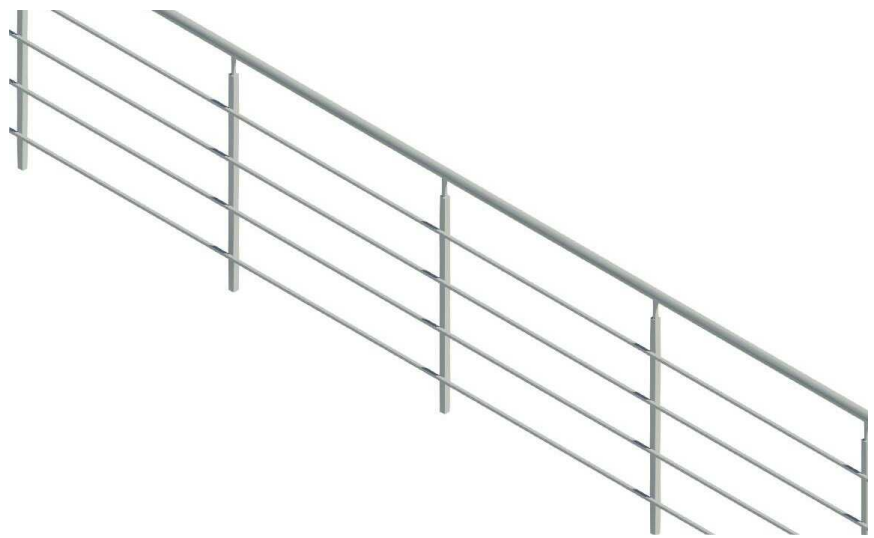
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BILL OF QUANTITY ABSTRACT



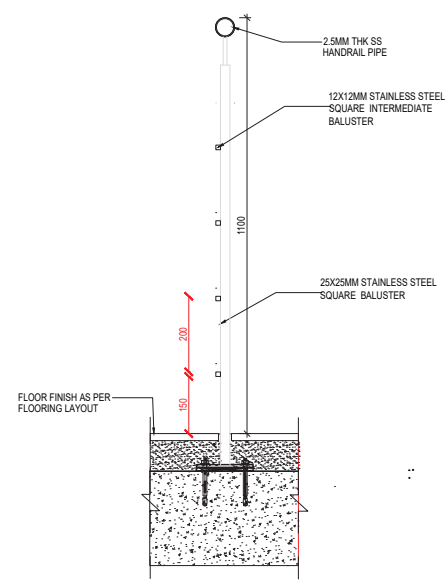
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☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT

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ISOMETRIC VIEW



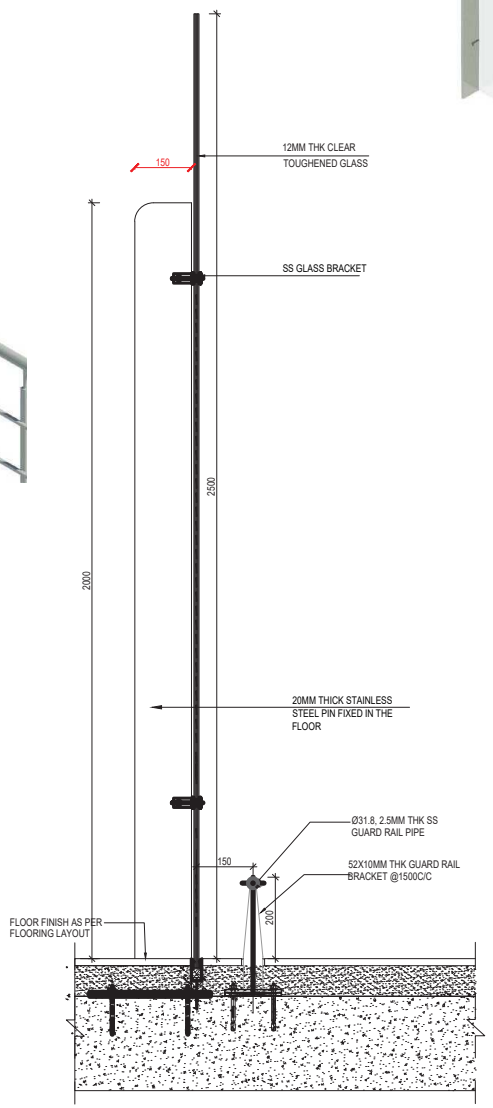
R-5 RAILING SECTION

Supplying and fixing 1100mm high stainless steel handrail with 50 mm dia top rail hollow stainless steel pipe to be welded as railing connected to the verticals through 25 x 25mm wide stainless steel square blustered intermediate railing. 4 number of 12mm box section stainless steel with uniform interval. Baluster to be fixed 750mm c/c. Baluster to be aligned with floor joint.

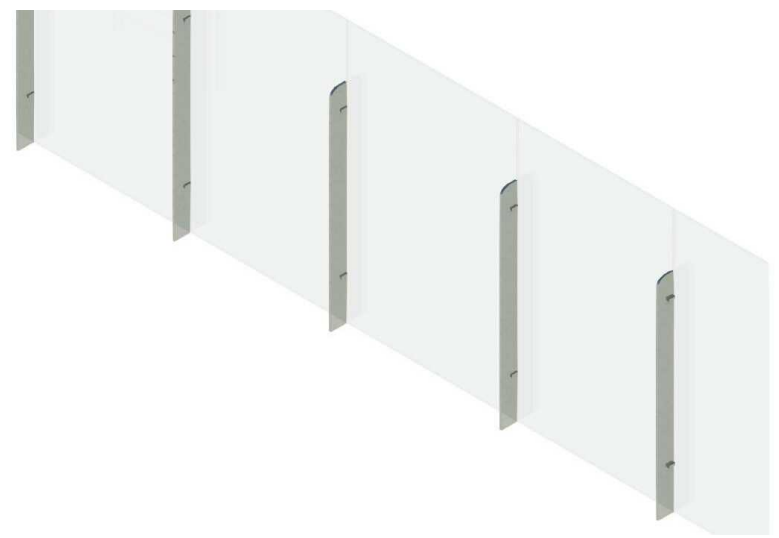
Stainless Steel grade 316 guards, handrails, and similar devices used for protection of occupants at open-sided floor areas and for pedestrian guidance and support, visual separation, or wall protection. High as defined in drawings shall be compliant with the Codes.

The Sub contractor to developing the Detail shop drawing as defined in Flooring GFC drawings. The price including labour with material and installation. Method statement, calaculation sample to be submitted for Architect approval.

STAINLESS STEEL HANDRAIL-FLOOR MOUNTED TYPE 2 - FLB STAIR



R-9 RAILING SECTION

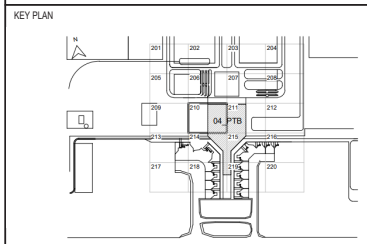


ISOMETRIC VIEW

Providing and fixing 13.52mm thk laminated clear toughened glass(6mm heat soakedn toughened glass panel with 1.52mm interlayer with 6mm heat soakedn toughned glass panel laminated together to held in position as per the detail drawings) of height 2500mm at every 1500mm c/c with the sealant DC 789 in between the glasses.Bottom to be fixed with 'U' channel within the floor and supported vertically by SS fins of size 150x2000mm and thickness as per specific requirement. All necessary SS support and fasteners to hold the glass in position.Glass fixing with necessary proprietary make wedges, including necessary foam to cushion the glass and sealed with approved non staining silicone sealant with required accessories etc., complete as per the manufac-tures specifcantion adhering to the detailed drawings. The edges of the all glass panels shall be machine polished.The rate shall be inclusive of all approved SS fittings,fixtures.etc., all material and labour complete. Method statement, neces-sary calculation and shop drawing to be submitted for Architect approval.

- List of Approved makes as per ER
- Glass Make: vi. AGC(AIS)- Europe, Japan, India
 - vii. Guardian -USA, India
 - viii. Interpane - Germany
 - ix. Pilkington NSG - UK, Japan
 - x. PPG - USA
 - xi. Saint-Gobain - Europe, India

GLAZED SECURITY BARRIER WITH FOOT RAIL ON BOTH SIDES H=2.5M - FOH GATES



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
 **Engineering Design and Research Centre (EDRC)**

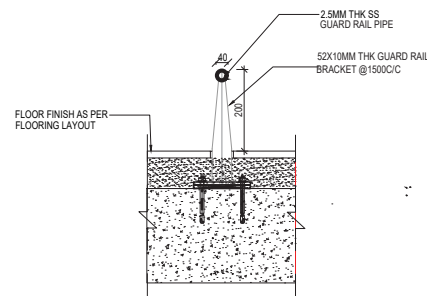
PROJECT: PASSENGER TERMINAL BUILDING

STATUS: DETAIL DESIGN

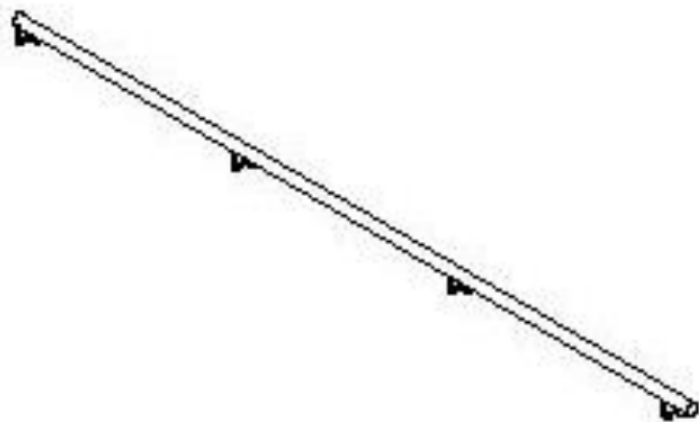
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RAILING DETAIL-1



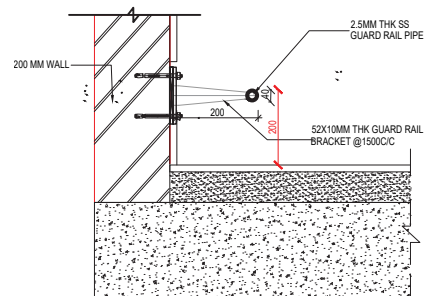
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R-3 RAILING SECTION
(FLOOR MOUNTED)



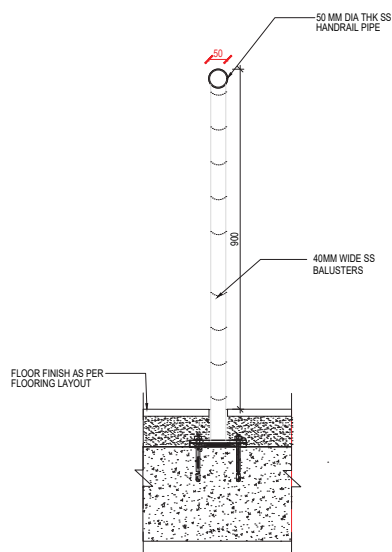
ISOMETRIC VIEW



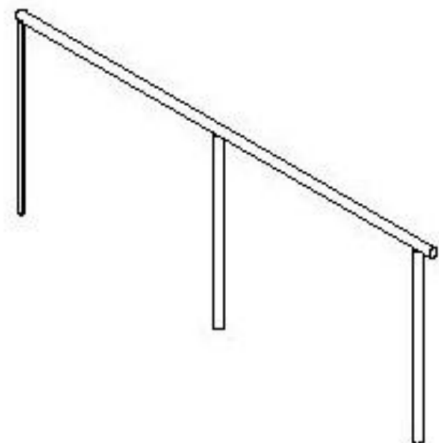
R-3 RAILING SECTION
(WALL MOUNTED)

Supplying and fixing 150mm high stainless steel guard rail fixed at floor surface/ wall surface from damage due to trolley movement around the column with 6mm x 40mm flat vertical Legs to be shaped of 150mm high, at regular intervals. Support to be fixed 750mm c/c. All vertical support to be aligned with floor joint / wall joint.
Stainless Steel grade 316 guards, handrails, and similar devices used for protection of occupants at open-sided floor areas and for pedestrian guidance and support, visual separation, or wall protection. High as defined in drawings shall be compliant with the Codes.
The Sub contractor to developing the Detail shop drawing as defined in Flooring GFC drawings. The price including labour with material and installation. Method statement, calaculation sample to be submitted for Architect approval.

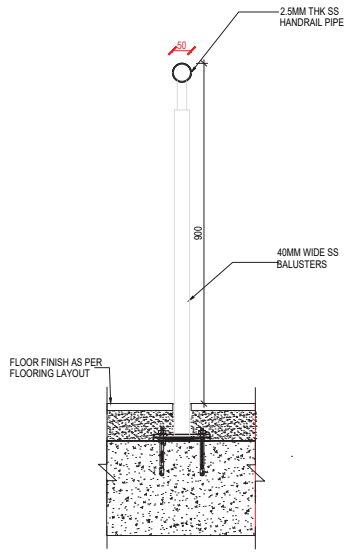
STAINLESS STEEL HANDRAIL / GUARDRAIL-WALL / FLOOR MOUNTED TYPE 1 - FLB / BOH STAIR/RAMPS



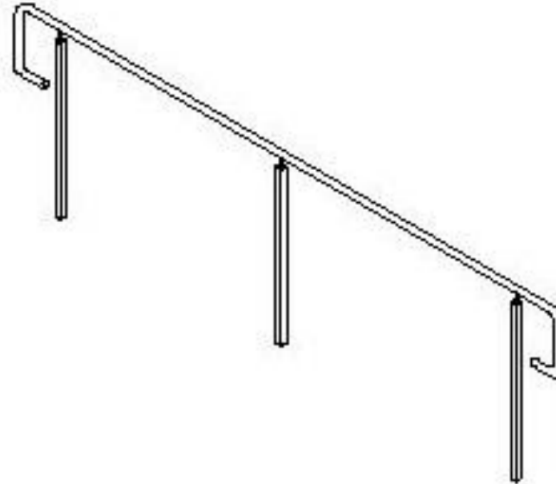
R-2 RAILING SECTION
(FLOOR MOUNTED)



ISOMETRIC VIEW



R-4 RAILING SECTION
(FLOOR MOUNTED)



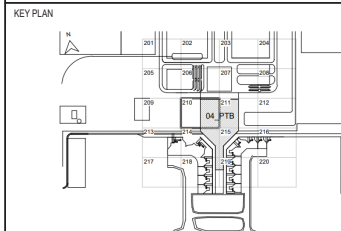
ISOMETRIC VIEW

Supplying and fixing 900mm high stainless steel handrail with 50 mm dia top rail hollow stainless steel pipe to be welded as railing connected to the verticals through 50mm wide stainless steel curricular blustered without intermediate railing. Baluster to be fixed 750mm c/c. Baluster to be aligned with floor joint.
Stainless Steel grade 316 guards, handrails, and similar devices used for protection of occupants at open-sided floor areas and for pedestrian guidance and support, visual separation, or wall protection. High as defined in drawings shall be compliant with the Codes.
The Sub contractor to developing the Detail shop drawing as defined in Flooring GFC drawings. The price including labour with material and installation.
Method statement, calaculation sample to be submitted for Architect approval.

STAINLESS STEEL RAILING TYPE 2 - TROLLEY/ MEETERS & GREETERS/WATER FEATURE

Supplying and fixing 900mm high stainless steel handrail with 50 mm dia top rail hollow stainless steel pipe to be welded as railing connected to the verticals through 50mm wide stainless steel curricular blustered without intermediate railing. Baluster to be fixed 750mm c/c. Baluster to be aligned with floor joint. All sharp edge to be avoided.
Stainless Steel grade 316 guards, handrails, and similar devices used for protection of occupants at open-sided floor areas and for pedestrian guidance and support, visual separation, or wall protection. High as defined in drawings shall be compliant with the Codes.
The Sub contractor to developing the Detail shop drawing as defined in Flooring GFC drawings. The price including labour with material and installation.
Method statement, calaculation sample to be submitted for Architect approval.

STAINLESS STEEL HANDRAIL-FLOOR MOUNTED TYPE 1-BOH STAIR/RAMPS



NORTH



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
**BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM**

ARCHITECTS & ENGINEERS:
 **Engineering Design and Research Centre
(EDRC)**

PROJECT: LOW COST GREEN STONE RESIDENTIAL PASSENGER TERMINAL BUILDING

STATUS: DETAIL DESIGN

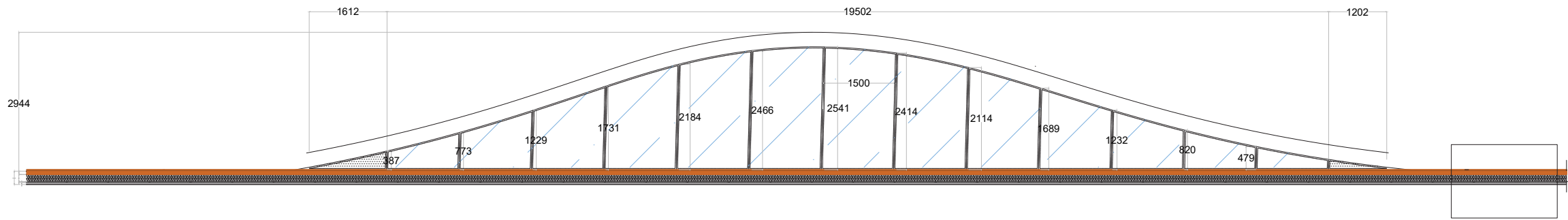
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RAILING DETAIL-2



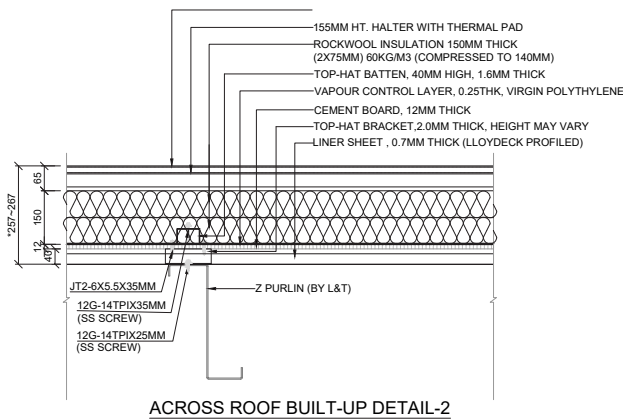
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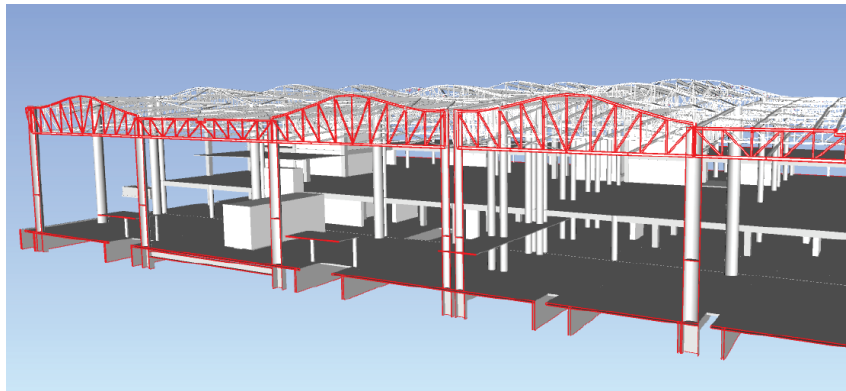
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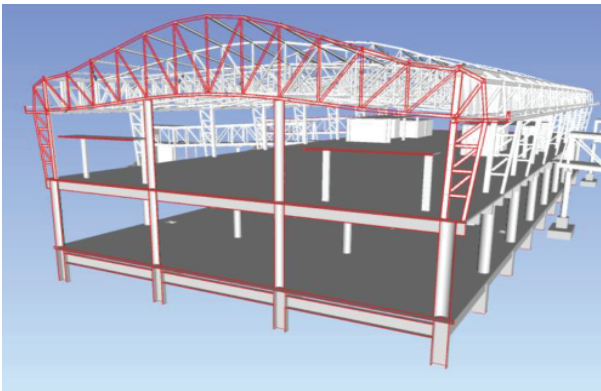
NORTH LIGHT SECTION 1



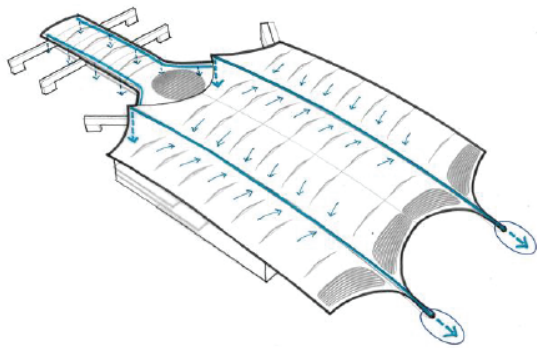
ACROSS ROOF BUILT-UP DETAIL-2



SKYLIGHT MODULAR SYSTEM AT THE MAIN PROCESSOR

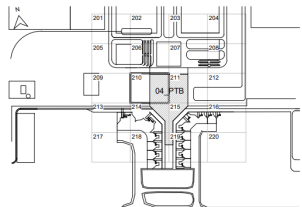


SKYLIGHT MODULAR SYSTEM AT THE PIER



OVERALL ROOF DRAINAGE STRATEGY:
SIPHONIC ROOF DRAINAGE SYSTEM

KEY PLAN



NORTH



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

STATUS: DETAIL DESIGN

DRAWING TITLE:
NORTH LIGHT SECTION -1

PROJECTION

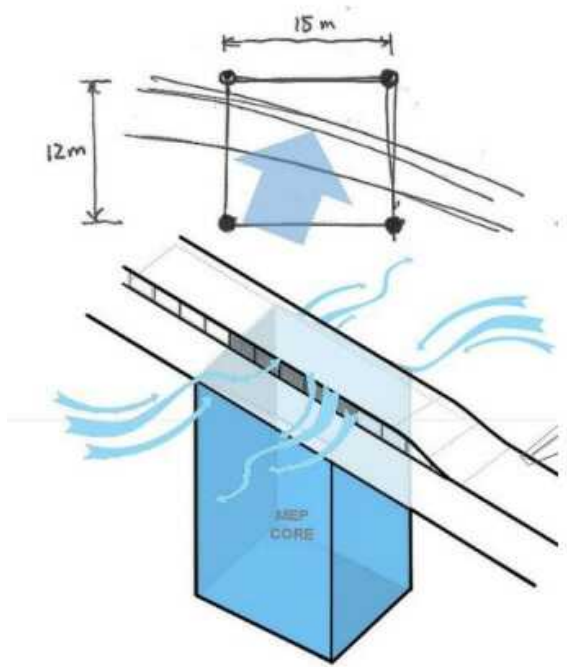


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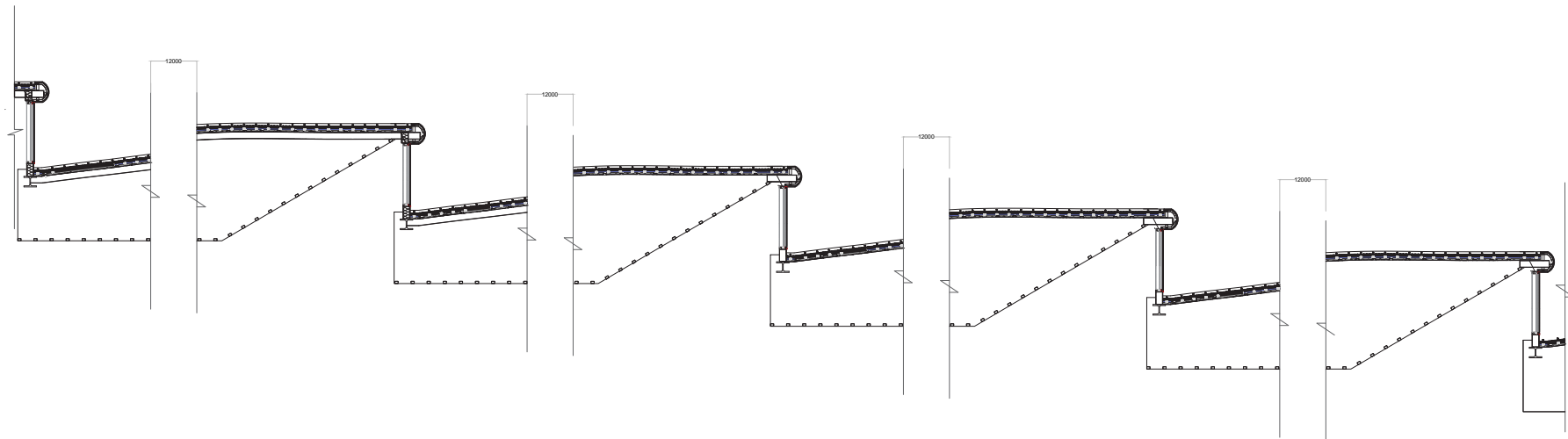
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- Roof Build-Up / Structure Design** **A**
 - Standing seam roof w/ northlights on long-span structure & purlins
- Maintenance & Serviceability** **B**
 - Gutters to fall w/ roof access
- Fire & Smoke Ventilation** **C**
 - Smoke ventilation via northlights & sprinklered ceiling
- Acoustic / Thermal Performance** **D**
 - Roof build-up achieves good performance

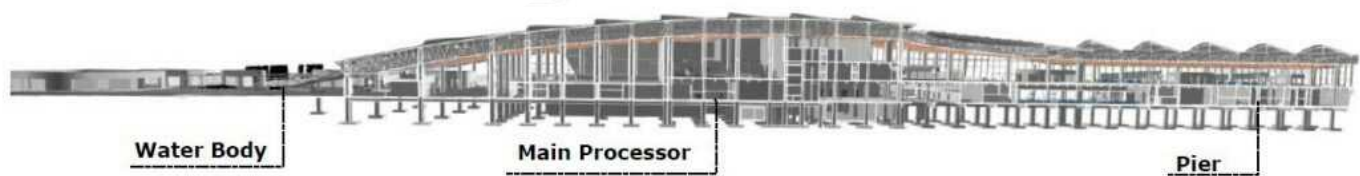
- MEP Services**
 - Lighting, PAVA, Sprinklers, Water & Roof Downpipes



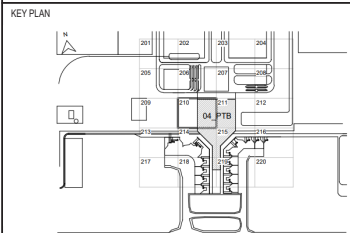
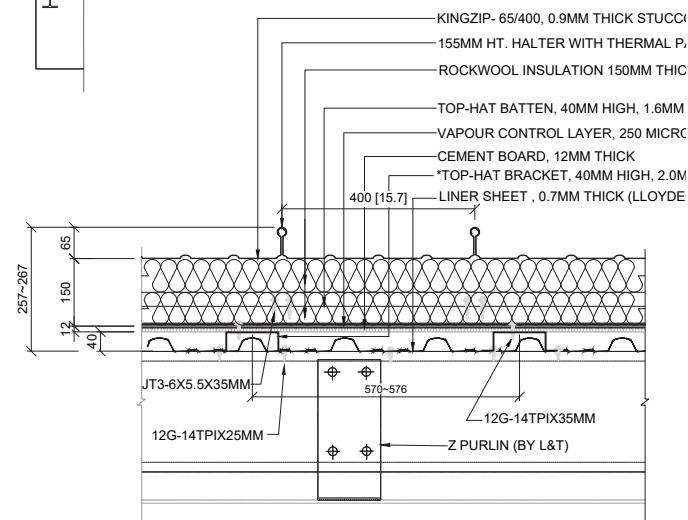
NORTH LIGHT SECTION 3



NORTH LIGHT SECTION 2



Provisions of Skylights have been made in terminal roof to maximise the use of daylight in the terminal. The Skylights have been augmented with artificial lights which will act as a backup ensuring adequate illuminance that mimics natural lighting at its best.



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PROJECT: PASSENGER TERMINAL BUILDING

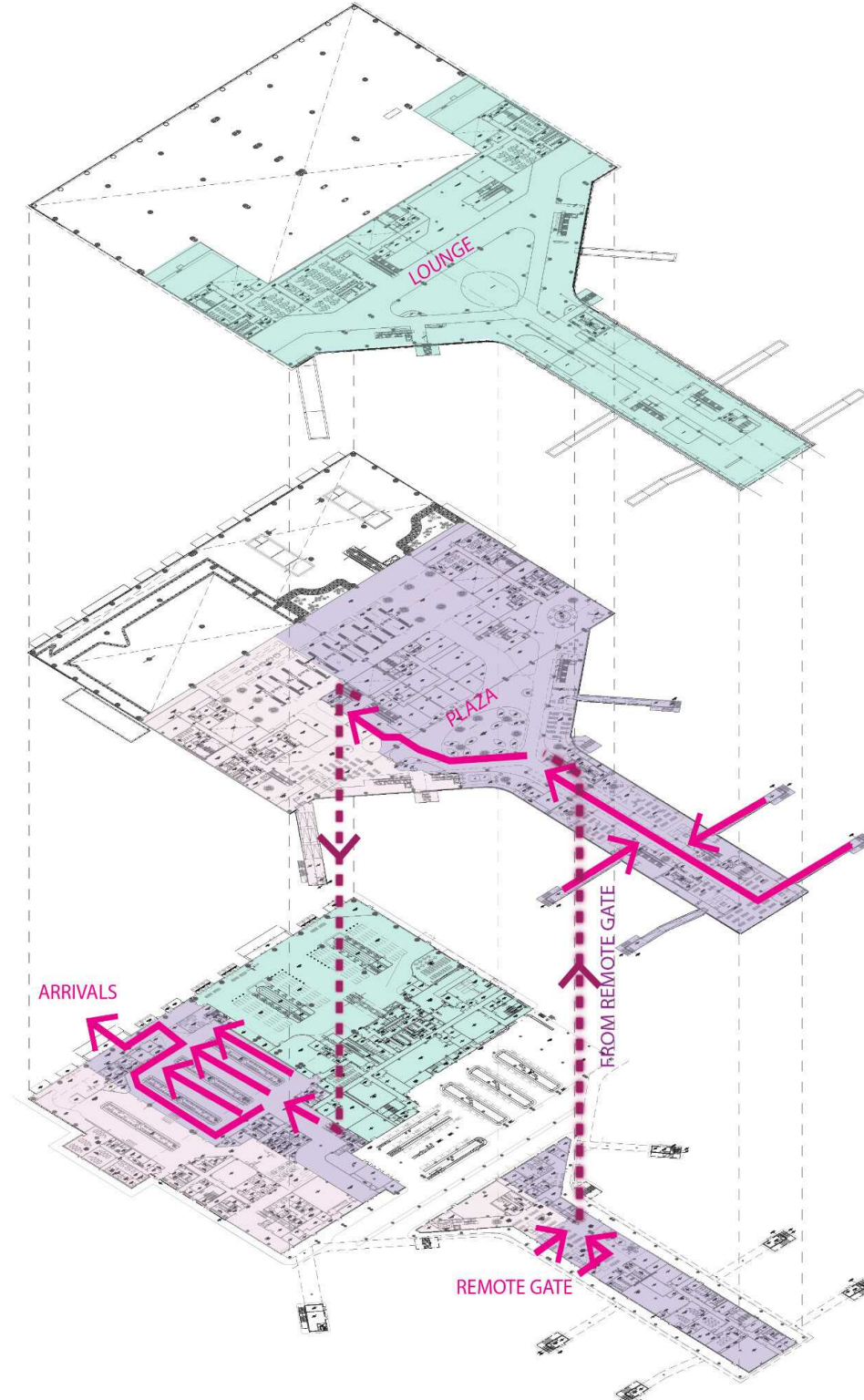
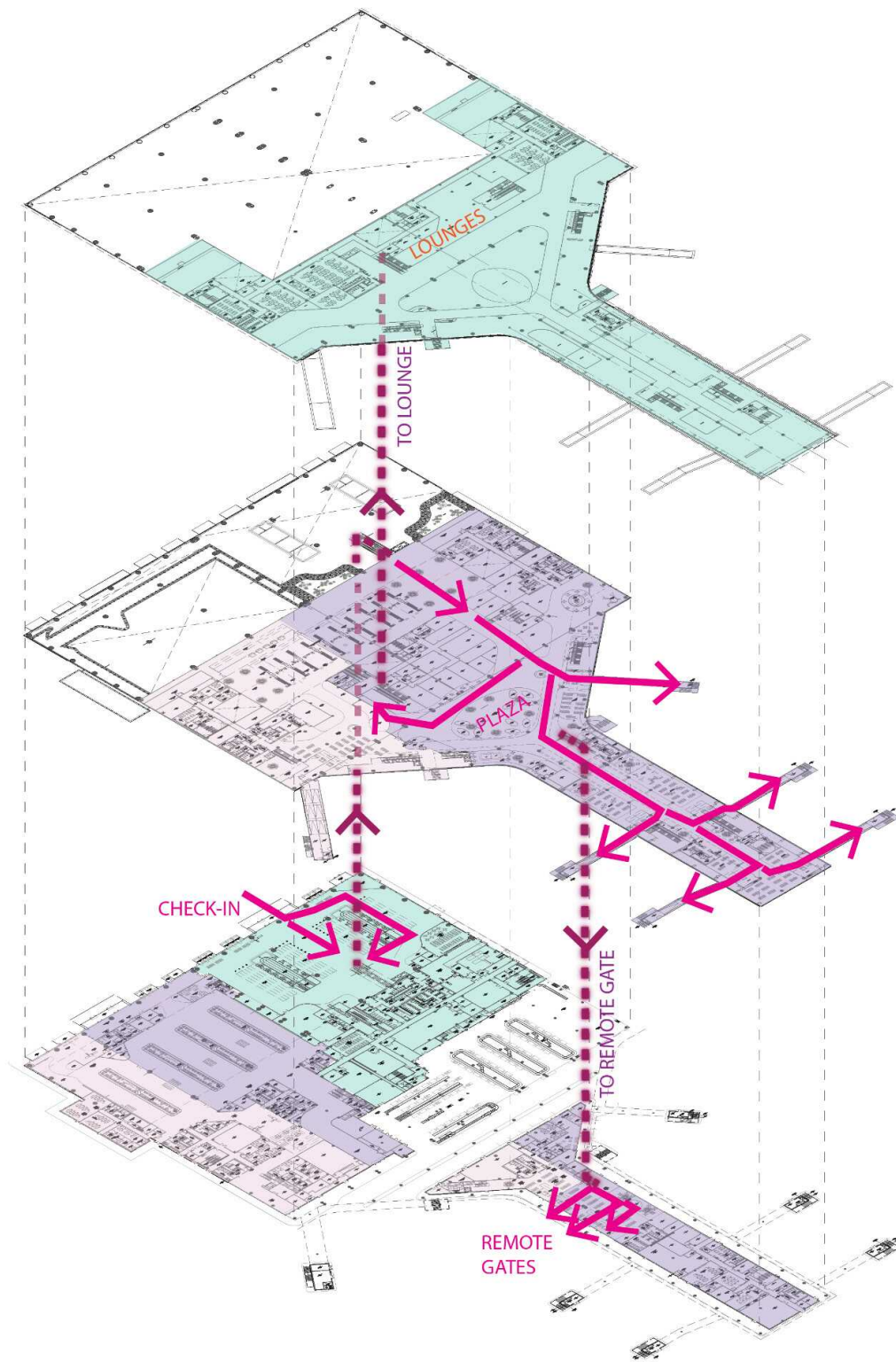
STATUS: DETAIL DESIGN

DRAWING TITLE:
NORTH LIGHT SECTION-2

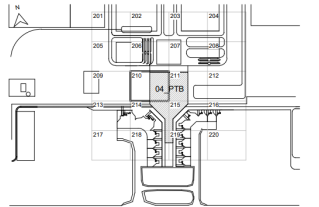


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KEY PLAN



NORTH



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OFFICE SEAL:

PROJECT:
BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

STATUS: CONCEPT DESIGN

DRAWING TITLE:
PASSENGER FLOW DIAGRAM
DOMESTIC ARRIVAL AND DEPARTURE

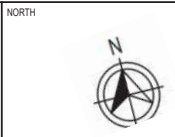
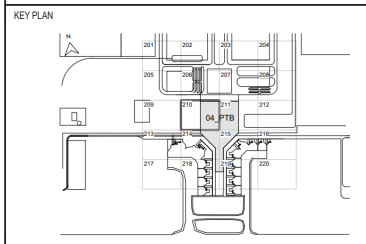
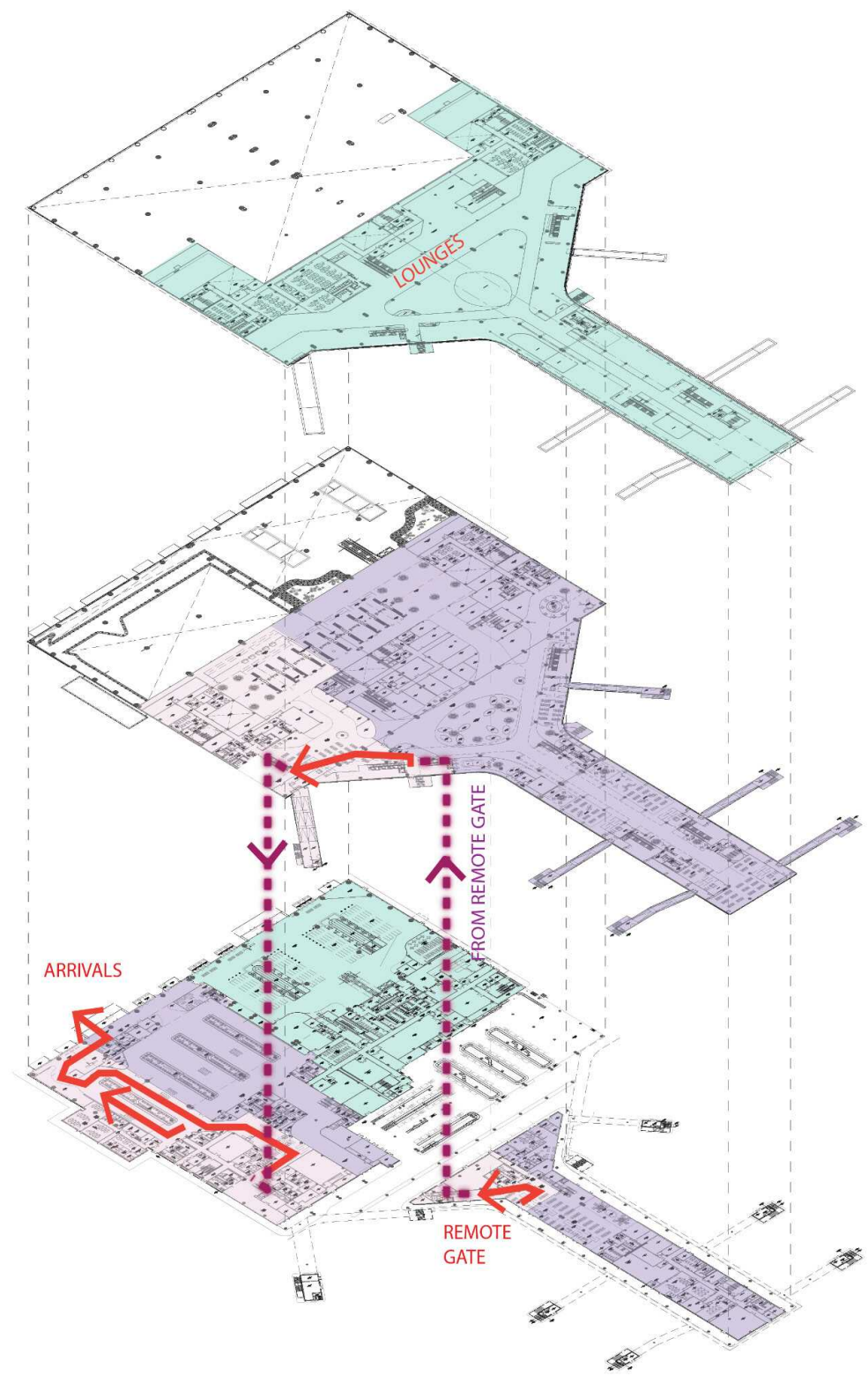
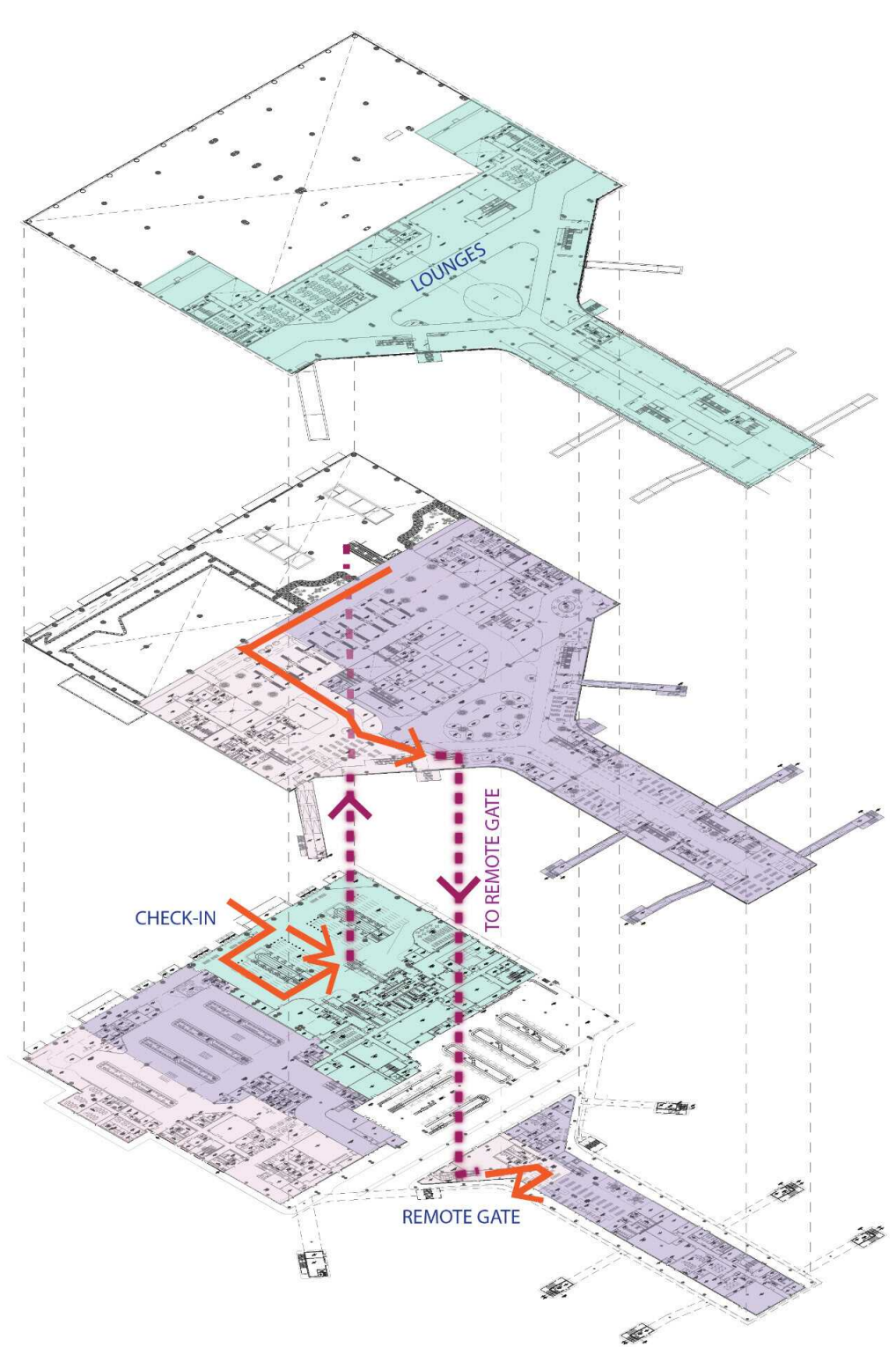
PROJECTION



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ARCHITECT SEAL:

OFFICE SEAL:

PROJECT: BHOGAPURAM INTERNATIONAL AIRPORT VISAKHAPATNAM

ARCHITECTS & ENGINEERS: Engineering Design and Research Centre (EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

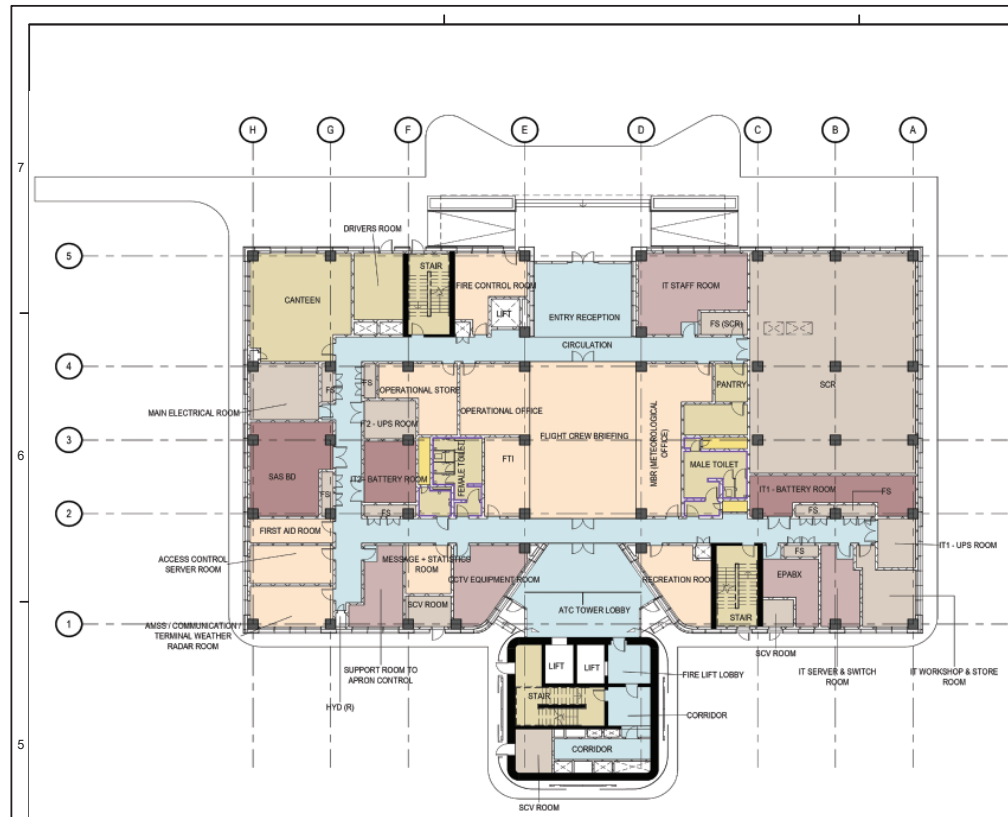
STATUS: CONCEPT DESIGN

DRAWING TITLE: PASSENGER FLOW DIAGRAM INTERNATIONAL ARRIVAL AND DEPARTURE

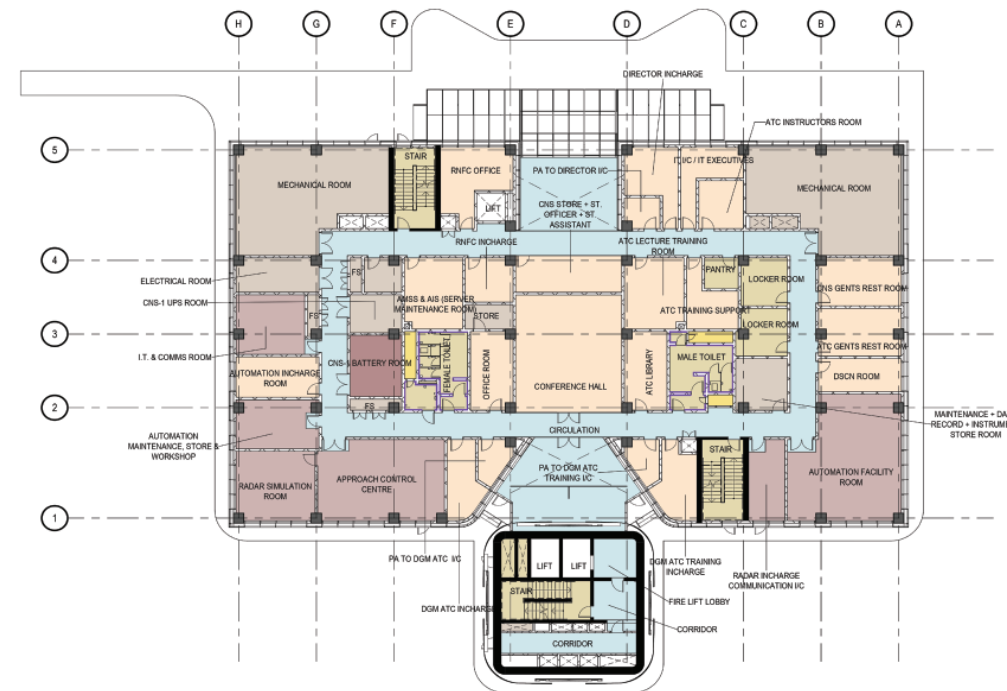


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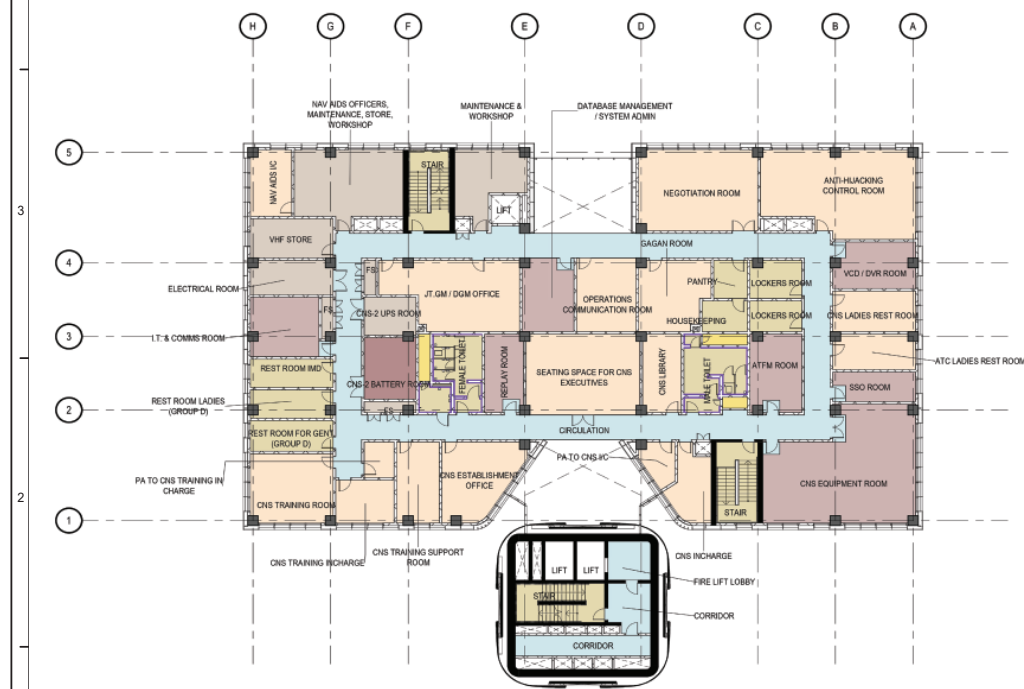




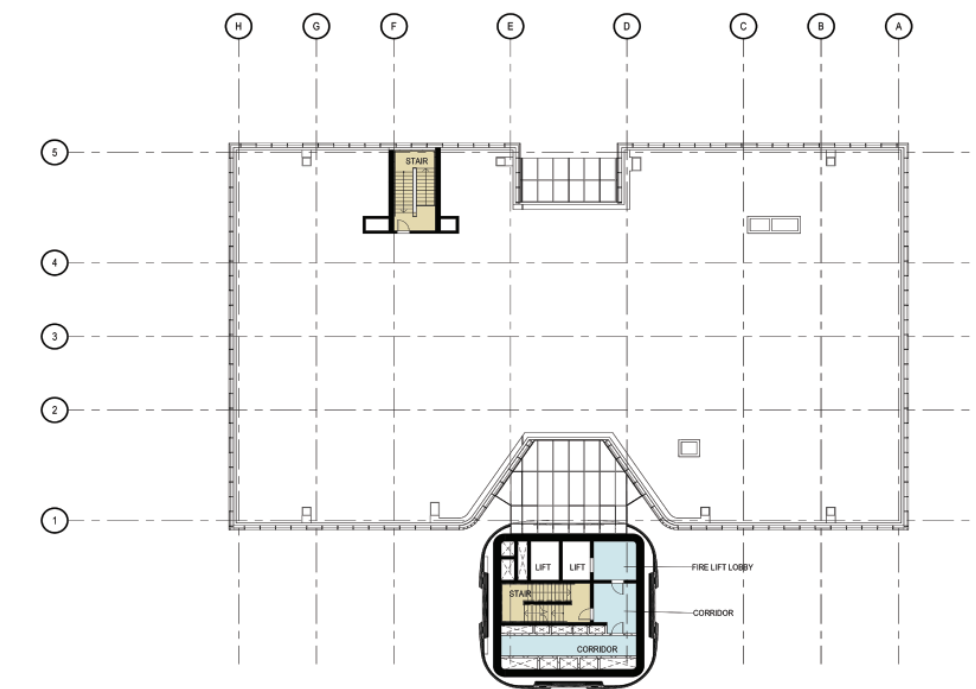
1 FINISHES PLAN L0



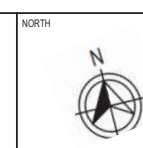
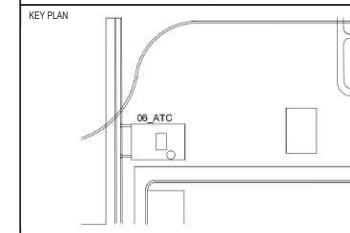
2 FINISHES PLAN L1



3 FINISHES PLAN L2



4 FINISHES PLAN L3



NOTES:-

1. For external cladding refer to Facade Package

LEGEND

- FLOOR FINISH F01
- FLOOR FINISH F02
- FLOOR FINISH F03
- FLOOR FINISH F07
- FLOOR FINISH F09
- FLOOR FINISH F11
- FLOOR FINISH F12
- FLOOR FINISH F14
- WALL FINISH P4

ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

STATUS:

DRAWING TITLE:



RELEASED FOR
INFORMATION TENDER APPROVAL CONSTRUCTION AS BUILT

Room Finishes Schedule ATC						
Room Number	Name	Department	Floor Finish	Wall Finish	Ceiling Finish	Area
Level 0						
ATC.L0.001.00	ACCESS CONTROL SERVER ROOM	OFFICES	F7	P6	C1	20 m²
ATC.L0.002.01	WALK-IN DUCT	PLUMBING	F14	P7	-	3 m²
ATC.L0.002.00	ACCESSIBLE TOILET	TOILET	F1	P4	C5	5 m²
ATC.L0.003.00	AMHS / COMMUNICATION / TERMINAL	OFFICES	F7	P6	C1	20 m²
ATC.L0.004.00	ATC TOWER LOBBY	BOH-Circ / Com. Area	F2	P6/P16	C1/C4	69 m²
ATC.L0.005.00	AVIATION COMM. (R)	SAS	F10	P7	-	2 m²
ATC.L0.006.00	AVIATION COMM. (R)	SAS	F10	P7	-	2 m²
ATC.L0.007.00	CANTEEN	BOH SUPPORT	F1	P6	C4	64 m²
ATC.L0.008.00	CCTV EQUIPMENT ROOM	OFFICES	F11	P6	C1	28 m²
ATC.L0.009.00	CIRCULATION	BOH CIRCULATION	F2	P6	C4	186 m²
ATC.L0.010.00	CORRIDOR	BOH CIRCULATION	F2	P6	C4	13 m²
ATC.L0.011.00	CORRIDOR	BOH CIRCULATION	F2	P6	C4	13 m²
ATC.L0.012.00	DRIVERS ROOM	OFFICES	F1	P6	C4	21 m²
ATC.L0.013.00	ELEC. (R)	ELECTRICAL	F10	P7	-	1 m²
ATC.L0.014.00	ELEC. (R)	ELECTRICAL	F10	P7	-	1 m²
ATC.L0.015.00	ENTRY RECEPTION	BOH-Circ / Com. Area	F2	P6	C1/C4	46 m²
ATC.L0.016.00	EPABX	SAS	F11	P6	C6	19 m²
ATC.L0.017.00	FIRE CONTROL ROOM	FIRE SYSTEM	F7	P6	C6	26 m²
ATC.L0.018.00	FIRE LIFT LOBBY	BOH CIRCULATION	F2	P6	C4	11 m²
ATC.L0.019.00	SCV	FIRE SYSTEM	F9	P6	C6	27 m²
ATC.L0.020.00	FIRST AID ROOM	MEDICAL CENTRE	F7	P6	C1	13 m²
ATC.L0.021.00	FLIGHT CREW BRIEFING	OFFICES	F7	P6	C1	105 m²
ATC.L0.022.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L0.023.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L0.024.00	FS	FIRE SYSTEM	F9	P6	C6	2 m²
ATC.L0.025.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L0.026.00	FS	FIRE SYSTEM	F9	P6	C6	2 m²
ATC.L0.027.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L0.028.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L0.030.00	FS (SCR)	FIRE SYSTEM	F9	P6	C6	6 m²
ATC.L0.031.00	FS RISER	FIRE SYSTEM	F10	P7	-	1 m²
ATC.L0.032.00	FS RISER	FIRE SYSTEM	F10	P7	-	1 m²
ATC.L0.033.00	OFFICES	OFFICES	F7	P6	C1	21 m²
ATC.L0.034.00	HVAC (R)	MECHANICAL	F10	P7	-	2 m²
ATC.L0.035.00	HVAC (R)	MECHANICAL	F10	P7	-	2 m²
ATC.L0.036.00	HYD (R)	PLUMBING	F10	P7	-	1 m²
ATC.L0.037.00	HYD (R)	PLUMBING	F10	P7	-	3 m²
ATC.L0.038.00	HYD (R)	PLUMBING	F10	P7	-	1 m²
ATC.L0.039.00	HYD (R)	PLUMBING	F10	P7	-	1 m²
ATC.L0.040.00	HYD PUMP ROOM (MEP BLOCK)	PLUMBING	F9	P6	C6	19 m²
ATC.L0.041.00	IT1 - BATTERY ROOM	ELECTRICAL	F12	P8	C6	34 m²
ATC.L0.042.00	IT1 - UPS ROOM	ELECTRICAL	F9	P6	C6	12 m²
ATC.L0.043.00	IT2 - BATTERY ROOM	ELECTRICAL	F12	P8	C6	20 m²
ATC.L0.044.00	IT2 - UPS ROOM	ELECTRICAL	F9	P6	C6	12 m²
ATC.L0.045.00	IT SERVER & SWITCH ROOM	SAS	F11	P6	C1	18 m²
ATC.L0.046.00	IT STAFF ROOM	OFFICES	F11	P6	C1	47 m²
ATC.L0.047.00	IT WORKSHOP & STORE ROOM	SAS	F9	P6	C1	21 m²
ATC.L0.048.01	WALK-IN DUCT	PLUMBING	F14	P7	-	3 m²
ATC.L0.048.00	JAN.	BOH SUPPORT	F1	P4/P7	C6	1 m²
ATC.L0.049.00	LV ROOM (MEP BLOCK)	ELECTRICAL	F9	P6	C6	74 m²
ATC.L0.050.00	MAIN ELECTRICAL ROOM	ELECTRICAL	F9	P6	C6	24 m²
ATC.L0.051.00	MBR (METEOROLOGICAL OFFICE)	OFFICES	F7	P6	C1	50 m²
ATC.L0.052.00	MESSAGE + STATISTICS ROOM	OFFICES	F7	P6	C1	14 m²
ATC.L0.053.00	NV ROOM (MEP BLOCK)	ELECTRICAL	F9	P6	C6	36 m²
ATC.L0.054.00	OPERATIONAL OFFICE	OFFICES	F7	P6	C1	31 m²
ATC.L0.055.00	OPERATIONAL STORE	OFFICES	F7	P6	C1	26 m²
ATC.L0.056.00	PANTRY	BOH SUPPORT	F1	P4/P7	C4	8 m²
ATC.L0.056.00	HOUSEKEEPING	BOH SUPPORT	F1	P4/P7	C4	12 m²
ATC.L0.057.00	RECREATION ROOM	OFFICES	F7	P6	C1	26 m²
ATC.L0.058.00	SAB BD	SAS	F9	P6	C6	43 m²
ATC.L0.059.00	SCR	SAS	F9	P6	C6	221 m²
ATC.L0.060.00	SCV ROOM	FIRE SYSTEM	F9	P6	C6	8 m²
ATC.L0.061.00	SCV ROOM	FIRE SYSTEM	F9	P6	C6	5 m²
ATC.L0.062.00	SCV ROOM	FIRE SYSTEM	F9	P6	C6	11 m²
ATC.L0.063.00	SUPPORT ROOM TO APRON CONTROL	OFFICES	F11	P6	C1	22 m²
ATC.L0.064.00	MALE TOILET	TOILET	F1	P4	C5	21 m²
ATC.L0.064.01	WALK-IN DUCT	PLUMBING	F14	P7	-	2 m²
ATC.L0.065.00	FEMALE TOILET	TOILET	F1	P4	C5	19 m²
ATC.L0.066.00	TX ROOM (MEP BLOCK)	ELECTRICAL	F9	P6	C6	53 m²
ATC.L0.067.00	VENTILATED CORRIDOR (MEP BLOCK)	BOH CIRCULATION	F9	P6	C6	40 m²
ATC.L0.069.00	WET RISER	PLUMBING	F10	P7	-	1 m²
ATC.L0.LT.01	LIFT	STAIR CORE	F10	P7	-	5 m²
ATC.L0.LT.02	LIFT	STAIR CORE	F10	P7	-	7 m²
ATC.L0.LT.03	LIFT	STAIR CORE	F10	P7	-	7 m²
ATC.L0.ST.01	STAIR	STAIR CORE	F1	P6	C6	21 m²
ATC.L0.ST.02	STAIR	STAIR CORE	F1	P6	C6	21 m²
ATC.L0.ST.03	STAIR	STAIR CORE	F1	P6	C6	28 m²
Level 1						
ATC.L1.001.01	WALK-IN DUCT	PLUMBING	F14	P7	-	3 m²
ATC.L1.001.00	ACCESSIBLE TOILET	TOILET	F1	P4	C5	5 m²
ATC.L1.002.00	AMHS & AIS (SERVER MAINTENANCE ROOM)	OFFICES	F7	P6	C1	26 m²
ATC.L1.003.00	APPROACH CONTROL CENTRE	OFFICES	F11	P6	C1	63 m²
ATC.L1.004.00	ATC GENTS REST ROOM	BOH SUPPORT	F7	P6	C4	24 m²
ATC.L1.005.00	ATC INSTRUCTORS ROOM	OFFICES	F7	P6	C1	13 m²
ATC.L1.006.00	ATC LECTURE TRAINING ROOM	OFFICES	F7	P6	C1	26 m²
ATC.L1.007.00	ATC LIBRARY	OFFICES	F7	P6	C1	21 m²
ATC.L1.008.00	ATC TRAINING SUPPORT	OFFICES	F7	P6	C1	16 m²
ATC.L1.009.00	AUTOMATION FACILITY ROOM	OFFICES	F11	P6	C1	80 m²
ATC.L1.010.00	AUTOMATION INCHARGE ROOM	OFFICES	F7	P6	C1	21 m²
ATC.L1.011.00	AUTOMATION MAINTENANCE, STORE & WORKSHOP	OFFICES	F11	P6	C1	25 m²
ATC.L1.012.00	AVIATION COMM. (R)	SAS	F10	P7	-	2 m²
ATC.L1.013.00	AVIATION COMM. (R)	SAS	F10	P7	-	2 m²
ATC.L1.014.00	AVIATION COMM. (R)	SAS	F10	P7	-	1 m²
ATC.L1.015.00	AVIATION COMM. (R)	SAS	F10	P7	-	2 m²
ATC.L1.016.00	CIRCULATION	BOH CIRCULATION	F2	P6	C4	206 m²
ATC.L1.017.00	CNS GENTS REST ROOM	BOH SUPPORT	F7	P6	C1	24 m²
ATC.L1.018.00	CNS STORE + ST. OFFICER + ST. ASSISTANT	OFFICES	F7	P6	C1	25 m²
ATC.L1.019.00	CNS-1 BATTERY ROOM	ELECTRICAL	F12	P8	C6	20 m²
ATC.L1.020.00	CNS-1 UPS ROOM	ELECTRICAL	F9	P6	C6	12 m²
ATC.L1.021.00	CONFERENCE HALL	OFFICES	F7	P6	C1	79 m²
ATC.L1.022.00	CORRIDOR	BOH CIRCULATION	F2	P6	C4	18 m²
ATC.L1.023.00	CORRIDOR	BOH CIRCULATION	F2	P6	C4	13 m²
ATC.L1.024.00	DGM ATC INCHARGE	OFFICES	F7	P6	C1	15 m²
ATC.L1.025.00	DGM ATC TRAINING INCHARGE	OFFICES	F7	P6	C1	17 m²
ATC.L1.026.00	DIRECTOR INCHARGE	OFFICES	F7	P6	C1	19 m²
ATC.L1.027.00	DSCN ROOM	OFFICES	F7	P6	C1	17 m²
ATC.L1.028.00	ELEC. (R)	ELECTRICAL	F10	P7	-	1 m²
ATC.L1.029.00	ELEC. (R)	ELECTRICAL	F10	P7	-	1 m²
ATC.L1.030.00	ELECTRICAL ROOM	ELECTRICAL	F9	P6	C1	17 m²
ATC.L1.031.00	FIRE LIFT LOBBY	BOH CIRCULATION	F2	P6	C4	10 m²
ATC.L1.032.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L1.033.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L1.034.00	FS	FIRE SYSTEM	F9	P6	C6	3 m²
ATC.L1.035.00	FS RISER	FIRE SYSTEM	F10	P7	-	1 m²
ATC.L1.036.00	FS RISER	FIRE SYSTEM	F10	P7	-	1 m²
ATC.L1.037.00	HVAC (R)	MECHANICAL	F10	P7	-	2 m²
ATC.L1.038.00	HVAC (R)	MECHANICAL	F10	P7	-	2 m²
ATC.L1.039.00	HVAC (R)	MECHANICAL	F10	P7	-	0 m²
ATC.L1.040.00	HVAC (R)	MECHANICAL	F10	P7	-	0 m²
ATC.L1.041.00	HYD (R)	PLUMBING	F10	P7	-	1 m²
ATC.L1.042.00	HYD (R)	PLUMBING	F10	P7	-	3 m²
ATC.L1.043.00	I.T. & COMMS ROOM	ELECTRICAL	F11	P6	C1/C4	27 m²
ATC.L1.044.00	IT I/C / IT EXECUTIVES	OFFICES	F7	P6	C1	17 m²
ATC.L1.045.01	WALK-IN DUCT	PLUMBING	F14	P7	-	3 m²
ATC.L1.045.00	JAN.	BOH SUPPORT	F1	P4/P7	C6	1 m²
ATC.L1.046.00	LOCKER ROOM	BOH SUPPORT	F1	P4	C4	14 m²
ATC.L1.047.00	LOCKER ROOM	BOH SUPPORT	F1	P4	C4	14 m²
ATC.L1.048.00	MAINTENANCE + DATA RECORD + INSTRUMENT STORE ROOM	OFFICES	F9	P6	C1	16 m²
ATC.L1.049.00	MECHANICAL ROOM	MECHANICAL	F9	P6	C6	87 m²
ATC.L1.050.00	MECHANICAL ROOM	MECHANICAL	F9	P6	C6	86 m²
ATC.L1.051.00	OFFICE ROOM	OFFICES	F7	P6	C1	20 m²
ATC.L1.052.00	PA TO DGM ATC I/C	OFFICES	F7	P6	C1	8 m²
ATC.L1.053.00	PA TO DGM ATC TRAINING I/C	OFFICES	F7	P6	C1	8 m²
ATC.L1.054.00	PA TO DIRECTOR I/C	OFFICES	F7	P6	C1	7 m²
ATC.L1.055.00	PANTRY	BOH SUPPORT	F1	P4/P7	C4	7 m²
ATC.L1.056.00	PRESS. (R)	MECHANICAL	F10	P7	-	2 m²
ATC.L1.057.00	PRESS. (R)	MECHANICAL	F10	P7	-	1 m²
ATC.L1.058.00	RADAR INCHARGE COMMUNICATION I/C	OFFICES	F11	P6	C1	18 m²
ATC.L1.059.00	RADAR SIMULATION ROOM	OFFICES	F11	P6	C1	34 m²
ATC.L1.060.00	RNFC OFFICE	OFFICES	F7	P6	C1	26 m²
ATC.L1.061.00	STORE	OFFICES	F9	P6	C1	7 m²
ATC.L1.062.00	STORE	OFFICES	F9	P6	C4	8 m²
ATC.L1.063.00	TOILET	TOILET	F1	P4	C5	21 m²
ATC.L1.063.01	WALK-IN DUCT	PLUMBING	F14	P7	-	2 m²
ATC.L1.064.00	FEMALE TOILET	TOILET	F1	P4	C5	19 m²
ATC.L1.065.00	WET RISER	PLUMBING	F10	P7	-	1 m²
ATC.L1.066.00	RNFC INCHARGE	OFFICES	F7	P6	C1	13 m²
ATC.L1.LT.01	LIFT	STAIR CORE	F10	P7	-	5 m²
ATC.L1.LT.02	LIFT	STAIR CORE	F10	P7	-	7 m²
ATC.L1.LT.03	LIFT	STAIR CORE	F10	P7	-	7 m²
ATC.L1.ST.01	STAIR	STAIR CORE	F1	P6	C6	21 m²
ATC.L1.ST.02	STAIR	STAIR CORE	F1	P6	C6	21 m²
ATC.L1.ST.03	STAIR	STAIR CORE	F1	P6	C6	23 m²

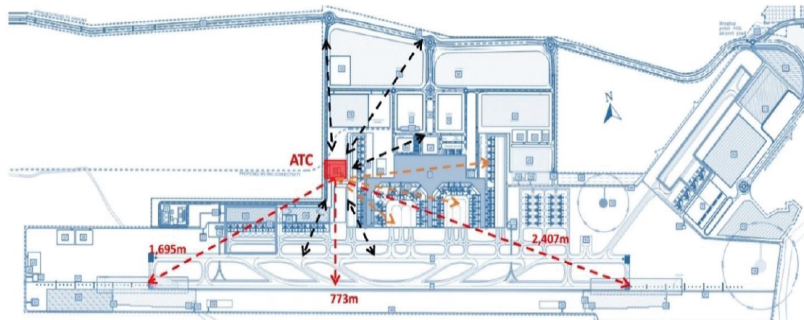
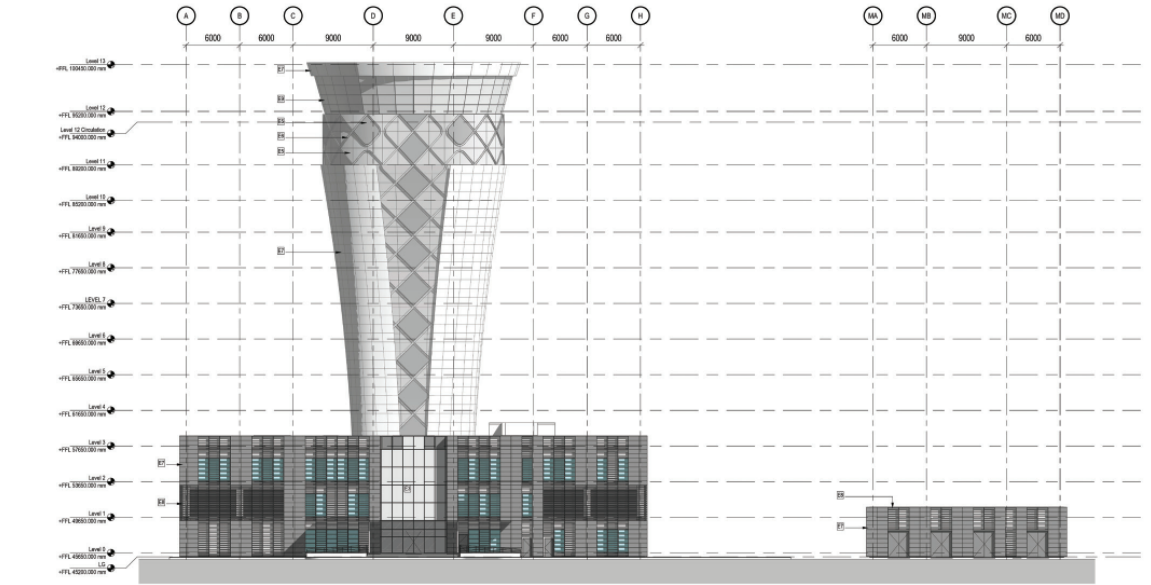
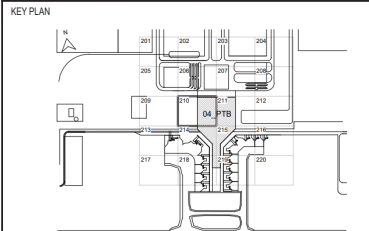
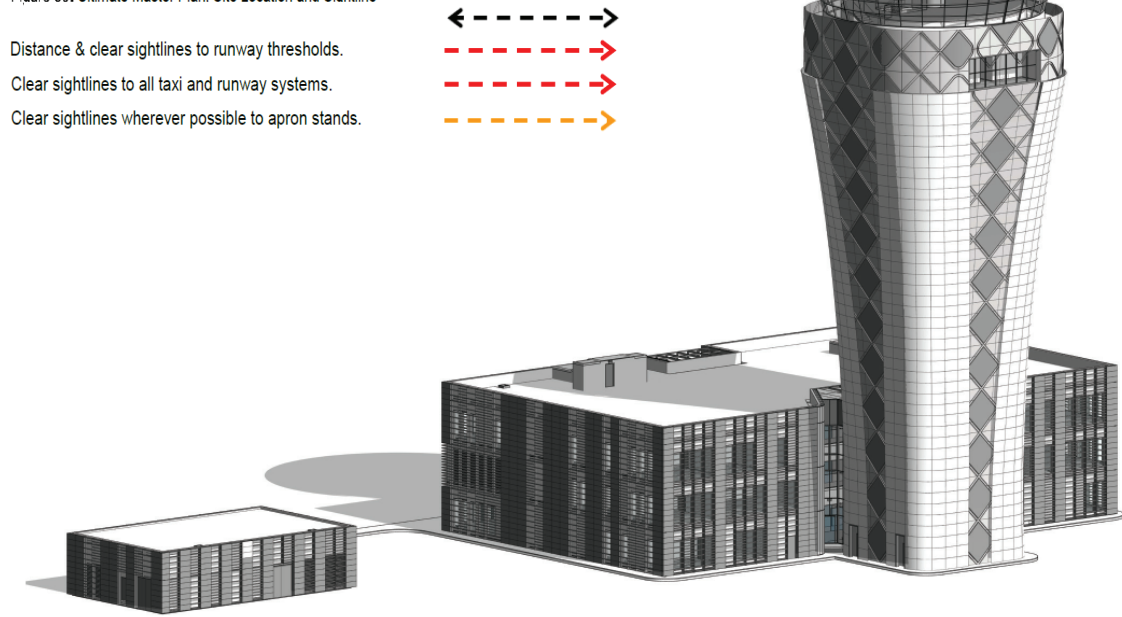


Figure 89: Ultimate Master Plan. Site Location and Sightline

Distance & clear sightlines to runway thresholds.

Clear sightlines to all taxi and runway systems.

Clear sightlines wherever possible to apron stands.



ARCHITECT SEAL:

OFFICE SEAL:

PROJECT:
BHOGAPURAM INTERNATIONAL AIRPORT
VISAKHAPATNAM

ARCHITECTS & ENGINEERS:
 Engineering Design and Research Centre
(EDRC)

PROJECT: PASSENGER TERMINAL BUILDING

STATUS:

DRAWING TITLE:

PROJECTION



RELEASED FOR
☐ INFORMATION ☐ TENDER ☐ APPROVAL ☐ CONSTRUCTION ☐ AS BUILT