महा मेट्रो PUNE METRO	**E-TENDER NOTICE** MAHARASHTRA METRO RAIL CORPORATION LIMITED (A joint venture of Govt. of India & Govt. of Maharashtra) (Pune Metro Rail Project) 101, The Orion, Opposite Don Bosco Youth Centre, Koregaon Park, Pune-411001 E-mail: tenders.pmrp@mahametro.org Website: www.punemetrorail.org Telephone: 020-26051072

Tender Notice No.: P1TL-02/2022 **Date: 11 Jun 2022**

Name of work:

Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Key Details	
License Period:	9 Years from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period.
Documents on sale:	Documents can be downloaded from 17.00 Hrs, 11/06/2022 to 15.00 Hrs of 02/07/2022 from Maha-Metro's e-tender Portal.
Cost of documents:	INR 35,400/- (Rupees Thirty Five Thousand Four hundred Only) non-refundable (inclusive of applicable taxes) through e-payment by RTGS/NEFT/Credit Card, as per procedure given in the e-tender portal.
Bid Security	Total bid security amount shall be a total of INR 6,00,000/- (INR Six Lakh) in the form of Bank Guarantee as per Annexure -16. For Further information, refer clause 7.19. Micro and Small Enterprises are exempted from Bid Security, subject to submission of the registration certificates.
Pre-bid Meeting:	18/06/2022 at 11.00 Hrs at Office of Pune Metro Rail Project, Inside Mahatma Phule Museum, Ghole Road, Shivaji Nagar, Pune- 411005
Last date of submission of queries for Pre-bid.:	Till 17.00 Hrs on **20/06/2022** at Email : tenders.pmrp@mahametro.org as per format mentioned in Annexure-13
Date & Time of submission of Tender:	Online submission up-till 15.00 Hrs on 02/07/2022 at Maha-Metro's e-tender portal.
Date & Time of Opening of Tender:	On 02/07/2022 at 15.30 Hrs or as decided by Maha-Metro at Procurement Section Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001
Validity of Bid	Up to 180 days from the last date of submission of Bid.
Authority to seeking clarifications and submission of completed tender	Executive Director (Procurement & Contracts), 101, The Orion, Opposite Don Bosco Youth Centre, Koregaon Park, Pune- 411001 E-mail: tenders.pmrp@mahametro.org Website: www.punemetrorail.org Telephone: 020-26051072

Executive Director/Procurement & Contracts,
Maha-Metro, (Pune Metro)

MAHARASHTRA METRO RAIL CORPORATION LIMITED

PUNE METRO RAIL PROJECT

BIDDING DOCUMENT

For

Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Tender No.

P1TL-02/2022

TENDER DOCUMENT

June 2022

MAHARASHTRA METRO RAIL CORPORATION LIMITED (MAHA-METRO)
(A joint venture of Govt. of India & Govt. of Maharashtra)
101, The Orion, Opposite Don Bosco Youth Centre,
Koregaon Park, Pune 411001
Email: tenders.pmrp@mahametro.org
Website: www.punemetrorail.org
Tel.: 020-26051072

Disclaimer

The Bid Documents are for ***"Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)."***

This document contains brief information about the Project and the Works to be executed and various steps involved in the Bidding Process. The information contained in the Bidding Documents or subsequently provided to Bidders, whether verbally or in documentary or any other form by or on behalf of Maharashtra Metro Rail Corporation Limited (hereinafter referred as "Maha-Metro" or "the Company" or "Employer") or any of its employees or advisors, is provided to Bidders on the terms and conditions set out in the Bidding Documents and such other terms and conditions subject to which such information is provided.

The Bidding Documents are not an agreement and are neither an offer by Maha-Metro to the prospective Bidders or any other person. The purpose of the Bidding Documents is to provide interested parties with information that may be useful to them in making their bids pursuant to the Bidding Documents. The Bidding Document include statements which reflect various assumptions and assessments arrived at by Maha-Metro in relation to the project or the work to be executed pursuant to this bidding process. Such assumptions, assessments and statements do not purport to contain all the information that a Bidder may require. The assumptions, assessments, statements and information contained in the Bidding Documents may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in the Bidding Documents and obtain independent advice from appropriate sources.

The information provided in the Bidding Documents to the Bidders is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. Maha-Metro accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

Maha-Metro, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in the Bidding Documents or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the Bidding Documents and any assessment, assumption, statement or information contained therein or deemed to form part of the Bidding Documents or arising in any way for participation in this bidding stage.

Maha-Metro also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements/information contained in the Bidding Documents.

Maha-Metro may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in the Bidding Documents. Maha-Metro also reserves the right to change any or all conditions/ information set in the Bidding Documents at any time by way of revision, deletion, updating or annulment through issuance of appropriate addendum/corrigendum as Maha-Metro may deem fit without assigning any reason thereof.

The issue of the Bidding Documents does not imply that Maha-Metro is bound to select a Bidder or to appoint the selected Bidder for the work envisaged under the Bidding Documents and Maha-Metro reserves the right to reject all or any of the Bidders or bids without assigning any reason whatsoever.

The Bidders shall bear all its costs associated with or relating to the preparation and submission of their bids, including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by Maha-Metro or any other costs incurred in connection with or relating to a bid. Maha-Metro shall not be liable in any manner whatsoever for the above costs or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

Maharashtra Metro Rail Corporation Limited

महा मेट्रो PUNE METRO	**E-TENDER NOTICE** MAHARASHTRA METRO RAIL CORPORATION LIMITED (A joint venture of Govt. of India & Govt. of Maharashtra) (Pune Metro Rail Project) 101, The Orion, Opposite Don Bosco Youth Centre, Koregaon Park, Pune-411001 E-mail: tenders.pmrp@mahametro.org Website: www.punemetrorail.org Telephone: 020-26051072

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Authority to seeking clarifications and submission of completed tender	Executive Director (Procurement & Contracts), 101, The Orion, Opposite Don Bosco Youth Centre, Koregaon Park, Pune- 411001 E-mail: tenders.pmrp@mahametro.org Website: www.punemetrorail.org Telephone: 020-26051072

Executive Director/Procurement & Contracts,
Maha-Metro, (Pune Metro)

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1 INTRODUCTION

1.11 The MAHARASHTRA METRO RAIL CORPORATION LTD. (hereinafter referred to as "Maha-Metro" or "Employer" or "Authority"),is a joint venture of the Government of India (GOI) and the Government of the Maharashtra, for implementing the Pune Metro Rail Project (PMRP) in Pune City. Maharashtra Metro Rail Corporation Ltd. earlier known as Nagpur Metro Rail Corporation Ltd. was incorporated on 17th February, 2015 with a vision to create safe, reliable, efficient, affordable, commuter friendly and environmentally sustainable rapid public transport system for the Pune City along with Pune Metro Region.

1.12 Currently, the PMRP is being executed on the North-South Corridor (PCMC to Swargate) and East-West Corridor (Vanaz to Ramwadi). North-South Line consist of Reach-1 and Reach-4 and includes all stations from PCMC metro station to Swargate metro station. Similarly, the Reach – 2 and Reach – 3 is the East-West line and includes all stations from Vanaz metro station to Ramwadi metro station.

1.13 As part of its existing mandate, Maharashtra Metro Rail Corporation Ltd. (Maha-Metro) has undertaken to capture value from real estate and other non-fare box revenues such as advertisements, co-branding, licensing of space etc. in such a manner that on one hand it gives sustainable additional revenue to the Corporation, and on the other hand it shall benefit the businessmen/advertisers/service providers in providing innovative ways to fulfill their business requirements/needs.

1.14 Maha-Metro intends to invite offers for the work of installation of In-building Solutions (IBS) for providing shared Mobile (Cellular) coverage (2G/3G/4G/5G) in tunnel section and underground station(s) i.e. Swargate, Mandai, Budhwar Peth, Civil Court, and Shivaji Nagar of Corridor-1 of Pune Metro Rail Network as per the terms and conditions as stated in the Bidding Documents along with other timely directives and approvals/instructions provided by Maha-Metro, from time to time. The Selected Bidder shall also undertake the works of operation & maintenance of the installed In-building Solutions (IBS) during the licensing period.

1.15 An information document covering the purpose of the license, tender notice, scope of work, details of space available, bidding process may be downloaded from the website "https://mahametrorail.etenders.in" and from the Maha-Metro's website "www.punemetrorail.org".

2 DEFINITIONS

2.11 "**Agreement**" means the License Agreement to be executed between Maha-Metro and the Selected Bidder.

2.12 "**Applicable Laws**" means all laws, brought into force and effect by Govt. of India, State Governments, local bodies and statutory agencies and rules / regulations / notifications issued by them from time to time. It also includes judgments, decrees, injunctions, writs and orders of any court or judicial authority as may be in force and effected from time to time.

2.13 "**Bid**" means the documents in their entirety comprised in the Bid, including all clarifications, addenda and revisions issued by Maha-Metro to the Bidders, the Bid submitted by the successful Bidder (Licensee) in response to the Tender Notice in accordance with the provisions thereof. The words "Bid" and "Tender" are used synonymously.

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2.14 "**Bidde**r" means any eligible party, who may be a registered sole proprietorship firm, a partnership firm or a company having registered office in India, or a combination of above in the form of Joint Venture (JV) or Consortium, etc. who is submitting its Bid pursuant to Bid/RFP Document.

2.15 "**Bid Security**" means the refundable amount to be submitted by the Bidder along with RFP documents to Maha-Metro.

2.16 "**Commencement Date**" means the date of commencement of License Fee as defined in RFP/Bid document.

2.17 "**License**" means the grant of License by Maha-Metro to the Licensee to utilize the Licensed Premises under terms and conditions of this Bid Document.

2.18 "**Licensee**" means the Selected Bidder, who has executed the License Agreement with Maha-Metro pursuant to the conclusion of the bidding process.

2.19 "**License Fee**" means the amount payable by the Licensee to Maha-Metro for Licensed Spaces or Premises as per terms and conditions of the License Agreement along with other payable charges and any kind of Central or State Taxes, local levies, statutory dues, stamp duties etc. as per prevalent law.

2.20 **"License Period"** means 9 Years from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period as specified in Bid Document.

2.21 "**Maha-Metro**" means Maharashtra Metro Rail Corporation Limited, SPV of Govt of Maharashtra and Govt of India.

2.22 "**Interest Free Security Deposit / Performance Security**" means interest free amount to be deposited by the Licensee with Maha-Metro as per terms and conditions of License Agreement as security against performance of License Agreement.

2.23 "**Licensed Premises" or "Licensed Space**" means the bare space, on "as is where is basis", solely for the purpose of License as per terms and conditions of this Bid Document.

2.24 "**Selected Bidder**" means the Bidder who has been selected by Maha-Metro, pursuant to the bidding process for award of License.

3 NOTICE INVITING TENDER (NIT)

3.11 Maha-Metro invites open E - Tenders from Bidder(s), who may be a registered sole proprietorship firm, a partnership firm or a company incorporated under Companies Act 1956/2013 and having registered office in India, or a combination of above in the form of Joint Venture (JV) or Consortium, for selection of Licensee for Licensing of space for In-building Solutions (IBS) for providing shared mobile (Cellular) coverage (2G/3G/4G/5G) in tunnel section and underground station(s) Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document.

3.12 Maha-Metro shall receive Bids pursuant to this RFP in accordance with the terms set forth in this RFP and other documents to be provided by Maha-Metro pursuant to this RFP as modified, altered, amended and clarified from time to time by Maha-Metro, (collectively the "**Bidding Documents**") and all Bids shall be prepared and submitted in accordance with such terms on or before the date specified in the e-tender notice published for submission of bids (the "**Bid Due Date**").

3.13 The plans showing indicative locations of licensing spaces at the aforementioned

stations is attached below at Annexure – 1 for ready reference. For clarification purposes, the final locations of licensing spaces in this tender shall be finalized through mutual discussion between Maha-Metro and the Successful Bidder.

3.14 Deleted

3.15 Deleted

3.16 Now, Maha-Metro intends to select suitable applicant (the "Selected Bidder"), for awarding the licensing rights, through an open competitive bidding process in accordance with the procedure set out in this RFP Document.

3.17 Bids are invited in this tender based on of the Highest License Fees to be paid for the spaces at the selected metro locations.

3.18 Considering the approximate areas available, the Bidder who quotes the Highest License Fees (applicable for Base Year/First Year), to be paid to Maha-Metro, in their Financial Bid shall be termed as Highest Bidder. The Annual License Fees as quoted by the Bidder in the Financial Bid shall be applicable for Year-1 which shall be escalated by 10% on year-on-year basis for the entire License Period.

3.19 The Bidder shall along with its Technical Bid submit the Bid Security (the **"Bid Security"**) as per the format specified at Annexure-16 amounting to Rs. 600,000/- (Rupees Six Lakh only) (inclusive of applicable GST).

3.20 During the Bidding Process, Bidders are invited to examine the area/spaces in greater detail, and to carry out, at their cost, such studies as may be required for submitting their respective bids for award of the said license including erection/installation furbishing/finishing, operation and maintenance of licensed spaces to be awarded through this tender.

3.21 All the uploaded files in tender submission should be named properly and arrange systematically. No special character/space should be there in the uploaded file name.

3.22 Any queries or request for additional information pertaining to this RFP shall be sent to the following e-mail id: tenders.pmrp@mahametro.org.

3.23 The brief schedule of bidding process shall be as per the dates mentioned in the e-tender notice published for the said work.

3.24 The bids shall be valid for a period of 180 days from the Bid Due Date.

3.25 In case of any information/queries regarding this tender, the Bidders are advised to contact:

a. The Executive Director (Procurement & Contracts)
Maharashtra Metro Rail Corporation Ltd.
The Orion, First Floor Opp. Don Bosco Youth Centre,
Arjun Mansukhani Marg, Koregaon Park Road, Pune 411001

3.26 Maha-Metro reserves right to reject any or all bids without assigning any reason and the same shall be at the entire discretion of Maha-Metro. Maha-Metro's decision in this respect shall be final and binding.

3.27 Conditional bids shall be summarily rejected.

3.28 Bidder should ensure that none of the part of Financial Bid should be up-loaded in anywhere in the technical section, if the Bidder does so then his bid shall be liable for rejection.

3.29 If a Bidder furnishes false information, false & forged experience certificate/documents with the Bid, which fails in authenticity verification by Maha-Metro, it shall lead to disqualification from the tender process and forfeiture of Bid Security and/or termination of contract even after award of the contract including encashment of the Performance Guarantee.

3.30 Bidders may refer to e-tender procedures **(Toolkit for using e-tender portal**) at Annexure – 4). In case of support or help required during online submission or difficulty encountered during online submission, the Bidders may contact **Mr. Prashant Jadhav (Tender Executive): +918055861373** (Helpline for online submission of bid only).

Executive Director (Procurement & Contracts)
Maharashtra Metro Rail Corporation Limited

4 ELIGIBILITY CRITERIA

4.1 Qualification of Bidders

For determining the eligibility of Bidders for their qualification hereunder, the following shall apply:

(a) The Bidder for qualification and selection shall be a single entity or a combination in the form of Joint Venture (JV) or Consortium interested to perform the 'scope of services' as listed in this RFP Document and License Agreement.

(b) For the purpose of this RFP, an Entity shall mean, who may be a registered sole proprietorship firm, a partnership firm or a company incorporated under Companies Act 1956/2013 and having registered office in India.

(c) The Lead Member of the JV/Consortium shall maintain a minimum percentage share of 51% of the aggregate shareholding of the JV/Consortium during full tenure of License Agreement.

(d) Any change in percentage of stake of JV/Consortium members without prior written approval of Maha-Metro shall be treated as Material Breach of Contract and Licensee's Event of Default entitling Maha-Metro to encash Security Deposit/Performance Security and or to terminate the License Agreement after 30-day notice.

(e) Minimum percentage stake of any member in JV/Consortium during license period (including lock- in period) shall not be less than 15%.

(f) Partners of the JV/Consortium having less than 26% participation shall be considered as non- substantial partner and shall not be considered for evaluation which means that their eligibility shall not be considered for evaluation of JV/Consortium.

(g) All members of such entity shall be jointly and severely liable for the performance of License Agreement.

(h) **Conflict of Interest:** The Bidder shall not have a conflict of interest **(the "Conflict of Interest")** that affects the bidding process. Any Bidder found to have a Conflict of Interest shall be disqualified. A Bidder shall be deemed to have a Conflict of Interest affecting the Bidding Process, if:

i. the Bidder, its Member or Associate (or any constituent thereof) and any other Bidder, its Member or any Associate thereof (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding of a Bidder, its Member or an Associate thereof (or any shareholder thereof having a shareholding of more than 10% (ten per cent) of the paid up and subscribed share capital of such Bidder, Member or Associate, as the case may be) in the other Bidder, its Member or Associate, is less than 10% (ten per cent) of the subscribed and paid up equity share capital thereof; provided further that this disqualification shall not apply to any ownership by a bank, insurance company, pension fund or a public financial institution referred to in sub-section (72) of section 2 of the Companies Act, 2013. For the purposes of this clause, indirect shareholding held through one or more intermediate persons shall be computed as follows: (aa) where any intermediary is controlled by a person through

management control or otherwise, the entire shareholding held by such controlled intermediary in any other person (the "**Subject Person**") shall be taken into account for computing the shareholding of such controlling person in the Subject Person; and (bb) subject always to sub-clause (aa) above, where a person does not exercise control over an intermediary, which has shareholding in the Subject Person, the computation of indirect shareholding of such person in the Subject Person shall be undertaken on a proportionate basis; provided, however, that no such shareholding shall be reckoned under this sub-clause (bb) if the shareholding of such person in the intermediary is less than 26% of the subscribed and paid up equity shareholding of such intermediary; or

ii. a constituent of such Bidder is also a constituent of another Bidder; or

iii. such Bidder, its Member or any Associate thereof receives or has received any direct or indirect subsidy, grant, concessional loan or subordinated debt from any other Bidder, its Member or Associate, or has provided any such subsidy, grant, concessional loan or subordinated debt to any other Bidder, its Member or any Associate thereof; or

iv. such Bidder has the same legal representative for purposes of this Bid as any other Bidder; or

v. such Bidder, or any Associate thereof, has a relationship with another Bidder, or any Associate thereof, directly or through common third party/ parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Bid of either or each other; or

vi. such Bidder or any Associate thereof has participated as a consultant to Maha-Metro in the preparation of any documents, design or technical specifications of the Project.

vii. A Bidder shall be liable for disqualification and forfeiture of Bid Security if any legal, financial or technical adviser of Maha-Metro in relation to the Project is engaged by the Bidder, its Member or any Associate thereof, as the case may be, in any manner for matters related to or incidental to the Project. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Bidder, its Member or Associate in the past but its assignment expired or was terminated prior to the Bid Due Date. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the Project.

(i) Make in India: Bidders are encouraged to adopt Indian sources to the maximum possible extent and comply with the guidelines of 'Make in India' issued from time to time.

(j) Pursuant to the office memorandum of the Government of India for "Registration of bidders from countries which shares land border with India" No. P-45021/112/2020-PP(BE-II)(E-43780), dated 04/09/2020, the bidders having beneficial ownership in countries which share land border with India shall be required to register with the competent authority to be eligible to bid in public procurement. Provisions of Office Memorandum No. 6/18/2019-PPD dated 23rd July 2020 shall be applicable to this tender.

Note: Bidders to refer to Annexure A for the above-mentioned circulars.

4.2 Eligibility of Bidders

To be eligible for qualification and short-listing and for evaluation of its Technical Bid, a Bidder shall fulfil the following conditions of eligibility:

4.2.1 Qualification and Eligibility – Technical Eligibility

For demonstrating eligibility (the **"Technical Eligibility"**), the Bidder shall be required to fulfil the following qualification criteria at Annexure- 14 –

a. The bidder should have executed In-Building Solution (IBS) works for providing shared Mobile Coverage Solution for at least 1 no. of Metro Rail Network/ Airports/Multistoried Buildings/Malls or tunnels for GSM/CDMA/Wi-Fi/VoLTE operators.

b. The agency engaged in installation of IBS must have minimum experience of one year in managing In-Building Solutions (IBS) for providing shared Mobile coverage solutions for various types of telecom operators like GSM/CDMA/Wi-Fi/VoLTE in public areas after installation.

Note :

In case of JV/Consortium, the above needs to be fulfilled by the lead member.

- The bidder shall be required to submit experience certificate duly issued by the client for the above-mentioned work.
- Pre-submission signed-off document/ Letter of Intent (LOI) by at least two (2) leading mobile operators with the bidding IP1 on acceptability of Design & Technical solution.
- The Bidder must be registered with Department of the Telecommunications, Government of India as authorized Infrastructure provider in IP-1 category.
  (Copy of valid DoT/IP-1 License is required to be submitted)

4.2.2 Qualification and Eligibility – Financial Capacity

For demonstrating eligibility (the **"Financial Capacity"**), the Bidder shall be required to fulfil the following qualification criteria –

a. Average Annual turnover in the last 3 (three) financial years immediately preceding the Bid Due Date (i.e. FY 2019-20, 2020-21, 2021-22) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.03.2022) of **INR 2.43 Cr (Rupees Two Crore Forty Three Lakh only).**

b. Net Worth at the end of the Financial Year immediately preceding the Bid Due Date (FY 2021-22) of **INR 3.65 Cr (Rupees Three Crore Sixty Five Lakh only)** as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before (31.03.2022).

Note :

- The Turnover and Networth Certificate(s) shall be submitted as per the format provided at Annexure- 14 which shall be duly signed by its Statutory Auditor specifying the Average Annual Turnover for the last 3 (three) financial years immediately preceding the Bid Due Date (FY 2019-20, 2020-21, 2021-22) and the Net-worth of the Bidder as on 31st March, 2022.

- Bidder shall submit its duly audited Financial Statements such as Cashflow Statement, Balance Sheet and Profit and Loss Account for the preceding 3 (three) financial years immediately preceding the Bid Due Date (FY: 2019-20, FY 2020-21 and FY 2021-22).
- In case audited financial statements of Financial Year 2021-22 is not available, the Bidder should submit provisional balance sheet and/or financial statements duly certified by Statutory Auditor.
- Weightage of 5% (Compounded annually) for Indian currency and 2 % per year for foreign currency shall be given for equating the financial turnover of the previous year to the current year.
- In case of a Bid by a JV/Consortium of firms, for the purpose of evaluation, each member's contribution towards the turnover shall be considered in the same ratio of their participation in the JV/Consortium.

i. In jurisdictions that do not have statutory auditors, the firm of auditors which audits the annual accounts of the Bidder may provide the certificates required under this document.

ii. For assessment of the eligibility of the Bidders, the financial year as applicable in the country of origin of the Bidders would be considered. The 'last financial year' will be the latest financial year that ended on or before 31.03.2022.

iii. In case of foreign currency for assessment of the eligibility of the Bidders, the Exchange (Selling) Rates shall be taken from the rates issued by the FBIL (Financial Benchmarks India Pvt Ltd) at the close of business 28 (twenty-eight) days before the latest date of Bid submittal. In case this particular day happens to be a holiday, the exchange rate at the opening of the business FBIL on the next working day will be considered.

4.2.3 Eligibility Documents to be submitted along with technical bid

The Bidders shall along with its Technical Bid enclose the following -

i. Various formats prescribed in the Bidding Documents

ii. Financial Eligibility: certificate(s) from its statutory auditors specifying (i) Average Annual Turnover for the last 3 (three) financial years immediately preceding the Bid Due Date & (ii) Networth for the last year immediately preceding the Bid Due Date.

iii. Power of Attorney as per the format at Annexure- 6, authorising the signatory of the Bidder to submit the Bid. (not required in case of Sole Proprietorship Firm).

iv. An undertaking stating that all the necessary supporting documents, including audited accounts and financial statements have been provided.

v. Affidavit as per Annexure- 8.

vi. Bid Security to be submitted.

4.2.4 Other Conditions

(a) As on date of Tender submission, the Bidder must not have been debarred by the Central Government / State Government or any entity Controlled by it, from participating in any Govt. project (BOT, BOOT, DBFOT or Operations and Maintenance etc., EPC basis, management contract or otherwise), and where the debarment subsists as on the Bid Due Date, or has been declared by Maha-Metro as non-performer/blacklisted would not be eligible

to submit its Bid. The Bidder should submit undertaking to this effect in Annexure-8 of the tender document.

(b) In case, at a subsequent date, the Selected Bidder/Licensee is found to have been banned for business as given above, Maha-Metro shall be at liberty to and have full rights to including but not limited to termination of the License Agreement, cancellation of the allotment of license awarded under this tender and forfeiture of Bid Security or Performance Guarantee as applicable. The Bidder should submit undertaking for the above as per Annexure-8.

(c) A Bidder should, in the last 3 (three) financial years, have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement against the Bidder, nor has been expelled from any project or contract by any public entity nor have had any contract terminated by any public entity for breach by such Bidder.

(d) As on date of Tender submission, Maha-Metro/MoHUA/GOI/Govt. of Maharashtra must not have banned business with the Bidder.

(e) As on date of Tender submission, any Central/State Government Department/PSU/Other Government entity or local body must not have banned business with the Bidder, which is applicable to all ministries (approved by the Committee of Economic Secretaries, Ministry of Commerce).

(f) The Bidder must not have been in a situation in which a criminal complaint has been lodged and the charges are upheld by the Court of Law.

5 OBJECTIVE AND SCOPE

5.1 Objectives of Bid Document:

a). Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document.

b). To provide seamless/uninterrupted mobile coverage (2G/3G/4G/5G) in selected tunnel and underground station/section of Maha-Metro.

c). To augment non-operational revenue of Maha-Metro through Licensing

5.2 Scope:

a). The Selected Bidder(s), shall be licensed with spaces, for Placement and Operation of Telecommunication Equipment for In-building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in tunnel section(s) and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document, hereinafter referred to as **"Permitted Activity"**, subject to the terms and conditions specified in the Bid Document/Draft License Agreement and the guidelines stipulated herein in relation to the Permitted Activity.

b). The intention is to provide mobile services of various operators for commuters' facilitation. No other services which are beyond the scope of this tender like Wi-Fi etc. shall be permitted.

c). The IBS as a concept shall be offered by a single infra provider/entity whereby with a single common infrastructure all existing and upcoming mobile operators can serve their customers in an easy and efficient manner. The said entity shall offer shared In-Building Solutions for various types of telecom operators such as GSM/CDMA Technologies.

d). The Selected Bidder shall be required to set up and manage the common shared IBS at the Licensed Premises. The Selected Bidder shall in turn provide the services of IBS to various telecom operators and other agencies that require the same in tunnel and underground station of the section by charging them appropriate license fee. The Selected Bidder in turn shall pay monthly License Fee and other charges along with applicable taxes, quarterly in advance, to Maha-Metro.

e). The Licensee shall ensure that any agreement or understanding executed between the Licensee and other telecom operators shall strictly adhere to compliances of License Agreement executed between Maha-Metro and Licensee.

f). The IBS provided by Selected Bidder shall:

i. Include all cellular standards such as GSM, CDMA, W-CDMA, and LTE/VOLTE. etc.
ii. The IBS coverage shall be provided through distributed antenna system, and it shall be left to the Selected Bidder to decide on the technology solution fitted best to meet the coverage criteria keeping in view of the building profile and ground realities for mobile operators considering the commercial outflow to be paid by the mobile operators.

iii. The License Fee of Space quoted by Bidder, as per RFP, shall be for 2G/3G/4G/5G only during the tenure of License Agreement. In case of any technological upgradation beyond 5G, since there is uncertainty, the License Fee of Space shall be enhanced on mutually agreed terms and conditions. In event of failure of finalisation of mutually agreed License Fee of Space, the License Agreement shall be terminated by Maha-Metro as per terms and conditions of License Agreement.

iv. No repeater equipment shall generally be installed in tunnels. Nevertheless, if it is unavoidable then repeaters can be allowed adhering to the schedule of dimensions. Power for the same has to be extended by the Licensee from licensed room. Any co-axial cable, power cable etc. has to meet the FRLSZH (Fire Retardant Low Smoke Zero Halogen) criteria for underground environment and has to be provided by the licensee along with associated equipment for receiving signals of mobile service providers. In this regard, certificates and test reports of the manufacturer are to be submitted to Maha-Metro. Further, Licensee can use 2 locations at concourse and 1 each at platform to use active components. The installation has to be inside the false ceiling and aesthetics is to be maintained. Location of such installation is to be approved by Maha-Metro. Use of this active equipment is limited to the scope of this Agreement, and they cannot be used for any other purpose such as Wi- Fi, etc.

g) Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier.

Further, the agreement between Licensee and the operators shall cease in case of termination of License Agreement entered between Licensee and Maha-Metro. In case licensee fails to comply to the provision of tie ups with three (3) mobile operators as described above, Maha-Metro reserves the right to ask individual/group of mobile operators to propagate their signals in licensed premises over the same infrastructure provided by the Licensee.

h) Some of the stations of the licensed sections may be under management of Maha-Metro Project Wing as these stations are under construction. The access to such section/station and the rooms shall be provided to Licensee at least thirty (30) days before Revenue Operation Date (**"ROD"**) of these stations. Maha-Metro shall issue a Possession Letter to Licensee for taking over the possession of location within ten days of the issuance of Letter of Possession. The ROD provided is tentative as it depends on sanction of section by CMRS. The final ROD shall be decided only after clearance by CMRS.

i) Licensee has to install all necessary cables (of FRLSZH type only), LCX & OFC in tunnel, cables and fixing of antenna in station and associated equipment for amplification of the signals in all areas of the underground stations and the approach ramp of the tunnel at its own cost, so as to provide seamless connectivity to the commuters travelling in the tunnels and underground station(s) of the Section. Cable trays and cable hangers for this purpose will be provided by Maha-Metro against payment of one-time capital cost and monthly fee. In case of separate cabling for CDMA and GSM network, sthe charges for the clamps shall be applicable for 2 cables. Licensee shall at their own cost and risk prepare/install cable tray and clamps etc. after obtaining Maha-Metro approval where such provision is not available. No claim or compensation on this account shall be entertained. General specification of the cables shall be as per Annexure-10.4. In addition, 4 (four) random samples from each type of cables are required to be tested for conformance of the specifications related to fire and smoke in Govt. lab and cost of such testing to be borne by the Licensee. Over sheath of the LCX cable shall be an extruded layer of anti-corrosion, reduced flame propagation, low smoke zero halogen compound complying with the fire performance requirement as per Annexure-10.4. Factory Acceptance Test (FAT)/ Accredited Lab Test report of the cables to be submitted to Maha-Metro for review of the above parameters.

j) The Licensee is permitted to take fiber from out-side station to GSM/CDMA room at their own cost and meeting the requirement of cable specifications for Underground Section. The fiber cable is to be used solely for carrying traffic for mobile coverage of Maha-Metro. No other data of whatever type shall be permitted on this fiber cable.

k) The Licensed Space shall be utilized only by the Licensee or his associates/permitted operators as per Terms and Conditions of RFP/Bid Document (Draft License Agreement at Annexure-10). In this regard, the Licensee shall obtain prior written permission for operators to operate at a particular site from Maha-Metro. If at any stage during License Period, it is found that the total operators at any location are more than permissible limit, license fee shall be charged at double the rate of license

fee applicable for single operator at that location on pro-rata basis from the date of handing over of the location and all utility services shall remain disconnected till the time extra operators vacate the Licensed Premises.

l) The sites shall exclusively belong to Maha-Metro, without creating any right, title or interest of whatsoever nature in the said Licensed Premises in favour of the Licensee.

m) Licensee shall ensure regular interaction and provide all necessary logistic support to the mobile operators so that they can provide un-interrupted mobile coverage in all underground areas.

n) The Licensee shall ensure compliance with permissible radiation limits for mobile towers/antennas as laid down by Municipal Corporation / State Government / Department of Telecommunications, etc. from time to time. The service provider/integrator should confirm to smooth voice communication in the vicinity of towers. A joint checking of the coverage with representative of the licensee, Property development cell, S&T and operations shall be conducted half-yearly and in case of any shortfall, a token penalty of Rs. 5,000/- will be levied on the Licensee.

o) The Selected Bidder shall be responsible for obtaining necessary permissions from Department of Telecommunications (DoT) and comply with all the guidelines issued by DoT from time to time and applicable law for undertaking the Permitted Activity in the Licensed Premises. Any law/instruction issued by Local Authority, in this regard, shall also be adhered to.

p) The Selected Bidder shall first utilize the telecommunication infrastructure of Maha-Metro on commercial terms wherever technically feasible before considering alternate facilities.

q) Deleted

r) Licensee shall interface with Civil/Electrical/Signal & Telecom etc during execution of work. Licensee shall also attend progress review meeting held at site offices on regular basis.

s) After completion of work As-built drawings shall be submitted to Maha-Metro.

5.3 **Licensee shall be responsible for the following activities:**

a) The Licensee shall ensure that passengers using metro train services will get uninterrupted mobile coverage without any interruption in underground section as described in Scope of this document. It requires that the Radio system shall have an overall availability of better than 99.95%. The signal level should be such that the uplink and down link audio quality level under such conditions should be good. The minimum signal level which is sufficient for successful radio calls must be available in all coverage areas including inside the moving (50-80 kmph) train compartment. It shall be available in 95% of total area and in worst case not more than 50 meter of continuous stretch in stations and in

tunnel/train should be without coverage. The signal levels mentioned herewith are the worst case Down Link signal levels after taking into account all losses such as propagation losses, feeder losses, body loss, fading, train penetration losses, multiple Floor / wall penetration losses, climatic losses, etc.

b) The Licensee shall be licensed with space for Placement and Operation of Telecommunication Equipment for Providing Mobile (Cellular) Network (2G/3G/4G/5G). For the purpose of placement of equipment, the Licensee shall submit the design/ layout of the location of placement of equipment along with other relevant details. Maha-Metro shall consider the plan with respect to aesthetics, operational feasibility, and safety & security concerns. If the whole plan or a part of plan is not approved by Maha-Metro, Licensee is required to submit revised plan for approval. All further modification/ revision in plan(s) are required to be approved by Maha-Metro.

c) Designing of all units / structures to complement station architecture/design for installation of telecommunication equipment.

d) Procurement, fabrication, installation & erection of equipment. The equipment inventory shall be within the Licensed Premises only. Licensee shall prepare the plan for approval from Maha-Metro.

e) Appoint competent nodal officer to interact with nodal Maha-Metro representative to bring clarity in understanding of spaces, coordinate and implement decisions taken.

f) Operate, manage and maintain the entire Licensed premises.

g) Obtain all approvals, permits, etc from all competent and required authorities, including different tiers of government, statutory, local, civic authorities, DoT etc. at its own cost.

h) Comply with all statutory requirements in connection with License Agreement.

i) Ensure regular and timely payments of all amounts due to Maha-Metro and discharge all obligations as per License Agreement.

j) Payment of all statutory taxes, local levies, statutory dues, etc (except property tax which shall be borne by Maha-Metro) as and when due shall be on licensee's account.

k) GST and surcharge thereon, as applicable from time to time, shall be paid by the Licensee.

l) Licensee shall also adhere to procedure of Maha-Metro regarding release of electric supply and specification of materials to be used for use of electric supply, Air-conditioning work, Fire Protection System, Fire NOC as detailed at Annexure-10.6 and Material Specification for renovation/ refurbish of premises as per Annexure- 10.

6 GENERAL TERMS FOR GRANT OF LICENSE

6.1 The details of locations/stations and sections, offered through this tender, for solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in tunnels and underground stations detailed at Annexure-1. The selected bidder shall be licensed with space for placement and operation of Telecommunication Equipment for the In- Building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in tunnels and underground stations detailed at Annexure-1. The area specified against each location is tentative for the subject bid and may have variation between 10% to 15%. License Fee shall be charged on the basis of per station/month for each station handed over to the Licensee subsequent to issuance of Letter of Acceptance (LOA) and receipt of payments there under.

6.2 Additional area at each station may be provided to the Licensee based on availability and feasibility at the sole discretion of Maha-Metro. In case of handing over of additional area at the same location, no fitment period shall be provided. Interest Free Security Deposit/ Performance Security shall also be updated for the additional area within 15 days from the date of handing over. The tenure of such additional area/ location shall be coterminous with the License Agreement. The locations shall be handed over to Selected Bidder as defined in scope of work after receipt of full payment as stipulated in the LOA and as per the possession Letter.

6.3 **Not Used.**

6.4 Tenure of License Agreement: The License shall be for a period of nine (9) years, subject to lock-in period of 2 (two) years, from the commencement of license fee. Tenure of the license period of the locations handed over subsequently shall be co-terminus with above period of main license agreement irrespective of date of actual handing over. Based on the first nine years performance, extension may be granted for a period of 3 (Three) years on mutually agreed terms and conditions. Maha-Metro reserves the right to not grant such extensions without assigning any reason whatsoever. The Licensee voluntarily and unequivocally agrees not to seek any claim, compensation, damaged or any other consideration in case such extensions is not granted.

6.5 License Agreement shall commence from date commencement of license fee.

6.6 Fitment Period: Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided.

6.7 Commencement of License Fee: License Fee shall commence immediately from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period..

6.8 License Fee: The Selected Bidder shall pay to Maha-Metro as per the LOA issued and executed Agreement, quarterly in advance, all payments requested as per rates indicated in the table.

S. No.	Item	Rate
A. Monthly Recurring Charges: Prevailing charges shall be increased @ 10% per annum on compounding basis after completion of every year of License Period		
1.	License Fee for Space (License Fee for space per station in GSM/CDMA room [22pprox.. 10 sqm in area] at each metro station as per Annexure-1) [In case, if handed over space is more than 15% (1.15 times) of 10 sqm, then license Fee will be increased on pro rata basis]	The rate to be filled online as per Annexure – 15.
2	License Fee of additional space for utilities/microwave tower (Will be charged for minimum 1 sqm area)	On pro rata basis as per S/N 1 above. Rate per sqm/month shall be derived by dividing 'Rate quoted by the licensee per station/month by 10 sqm area at S/N 1
3.	License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater	Rs. 16,106/- per station/month + GST
4.	Maintenance charges for Space including Supervision Charges for tunnel entry. (Entry in tunnel will be restricted to availability of power block in the section.)	Rs. 5,962/- per month/station + GST
B	**Variable Charges: Third Party Dependent (MSEDCL Power)**	
5	Electrical Installation Charges including substation lease rent.	As per Annexure 10.5
6	Air-Conditioning Charges (Considering 1 number of FCU working and 1 FCU standby.)	{[Total TR installed in GSM/CDMA room X 0.75 (Working TR) X 1.494] KVA X 24 hrs X (Number of Days in particular month) X (Unit charges as per concerned DISCOM)}
7	Air-Conditioning Maintenance Charges i.e. Operation and Maintenance charges for high end installations at stations (monthly basis)	20% of Air-Conditioning Charges (as calculated in S.No. 6 above)
8	Energy consumption charges (Energy consumption as per installed Energy Meter)	As per Annexure 10.5 & 10.6
C	**One Time Lump-Sum Charges: Non-Refundable**	

9	One-time fixed charges for installation of FCU with all associated item	Rs 1,13,937/- per TR + GST
10	Clamp of LCX cable in Tunnels	Rs 472/- per running meter excluding taxes & duties + GST
D	**Deposits:**	
11	Refundable Electrical Consumption Deposit (Interest Free)	Rs.5,000/-per KVA per station
12	Interest Free Security Deposit/ Performance Security	Equivalent to 12 months License Fee (License Fee shall be the sum of Items at Sr No 01 to 04 under the head "A: Monthly Recurring Charges" of this table) applicable for final year of License agreement for Licensed premises.
E	**Dark Fiber Between Stations**	As per Maha-Metro Rates applicable from time to time

Note : Items other than A (1) above are proposed to be kept fixed for the contract Bid is invited against item A(1), where the mentioned amount in above table is minimum reserve price. Bidder is required to quote his price against A(1) in the financial bid. Work shall be awarded to the Bidder quoting highest (H1) quote of total all (5) stations.

6.9 Along with the above license fee and other charges, the licensee shall also pay GST as applicable (presently 18%) from time to time. Any further increase in statutory taxes or new tax structure will also be applicable.

6.10 The License Fee of Space, License Fee of Additional Space for utilities/microwave tower, License Fee for Spaces on Cable Trays & for Indoor Antennas/Repeater and Maintenance Charges for Space including Supervision Charges for tunnel entry shall be increased by 10% per annum on a compounding basis after completion of every year of License Period.

6.11 License Fee and other dues shall be payable quarterly in advance to Maha-Metro, by the last working day of previous running quarter. The re-conciliation of License Fee and other dues shall be carried out annually. Based on re- conciliation, the adjustment of License Fee payable to Maha-Metro shall be carried out along with payment of License Fee of next quarter. The payment of dues should preferably be made/credited by RTGS/NEFT/ECS mode to Maha-Metro after obtaining prior approval of Maha-Metro and complying with the laid down procedure. The details for Maha-Metro's account for e-payment shall be provided separately. Licensee may submit the dues in the form of Demand Draft/ Cheque in favour of "Maharashtra Metro Rail Corporation (Maha-Metro) Limited" RTGS/NEFT/IMPS/Online Transfer after taking prior approval of Maha-Metro.

6.12 **Air-Conditioning Charges:** The Air-Conditioning at the Licensed Premises inside the rooms (GSM/CDMA) shall be provided by Maha-Metro at the cost of Licensee. The capital cost and other monthly charges for providing Air- Conditioning shall be payable by Licensee to Maha-Metro.

6.13 **Performance Security:** Selected Bidder shall pay and submit to Maha-Metro Performance Security equivalent to 12 (twelve) Months License Fee applicable for

final year of license agreement for Licensed Premises as per Annexure-10.1 of Draft License Agreement (DLA).

6.14 The selected bidder shall submit Performance Security in the form of Bank Guarantee from a Scheduled Commercial Bank based in India in favour of "Maharashtra Metro Rail Corporation Limited within 30 days of issue of LOA.

This Irrevocable Bank Guarantee shall be in the prescribed format (Annexure-10.2) issued from a Scheduled Commercial Bank based in India in favour of "Maharashtra Metro Rail Corporation Limited. The Bank Guarantee shall be valid at least for Six nine (9) years and shall be renewed (if required) on rolling basis before expiry of earlier Bank Guarantee, failing which the previous Bank Guarantee shall be invoked and encashed by Maha-Metro without any prior intimation to the Licensee. For last year of License Period, the Licensee shall submit the Bank Guarantee valid for remaining License Period plus six months and shall renew it, if required, till the final settlement of all accounts failing which the Bank Guarantee of the Licensee shall be invoked and encashed by Maha-Metro without prior intimation to the licensee.

In case of allotment/handing over of any new/additional location/stations in the same section over and above the locations listed in Annexure-10.1, Performance Security shall be paid/updated at the final year applicable rate of license fee at the for 12 months for the new additional location allotted and handed over.

6.15 In case of joint venture/Consortium, the Performance Security shall be submitted in the name of the JV/Consortium. However, splitting of the Performance Security (while ensuring the Performance Security is in the name of JV/Consortium) and its submission by different members of the JV / Consortium for an amount proportionate to their percentage stake in joint venture/Consortium is acceptable.

6.16 **'As is where is basis':** The Licensee shall be licensed with the said Licensed Premises, equipment, installations, fittings and fixtures on 'as is where is basis' and the Licensee shall not make any additions or alterations in the Licensed Space, installations including electric installations and wiring without the prior permission of Maha-Metro in writing and when permitted by the Maha-Metro the said additions and alterations shall be carried out by the Licensee at own cost and shall not be entitled for any compensation for any additions/alterations carried out by them in the Licensed Premises and the same shall vest in Maha-Metro. The Licensee shall install their own fixtures and equipment in the said Licensed Premises after duly obtaining all necessary approvals from the licensor, permissions and licenses from the Municipal Corporation, DoT and such other Statutory Authorities at its own cost and expense.

6.17 Goods and Service Tax (GST) and surcharge thereon, as applicable from time to time, shall be paid by the Licensee. The property tax applicable, if any, on the property of Maha-Metro shall be borne by Maha-Metro. All other statutory taxes, statutory dues, local levies, as applicable (except those mentioned above) shall be charged extra and shall have to be remitted along with the License Fee for onward remittance to the Government/Authority. The Licensee shall indemnify Maha-Metro from any claims that may arise from the statutory authorities in connection with this License.

6.18 Payment of stamp duty on License Agreement or any other document to be executed in pursuance of this Bid shall be borne by Licensee.

6.19 Stages of Activity:

Sr. No.	Stage of Activity	Time Period
1	Submission of Interest Free Security Deposit (IFSD) / Performance Security (PS/PBG) to Maha-Metro by the Selected Bidder	100% of IFSD/PS/PBG can be submitted in the form of Bank Guarantee (BG) within 30 days of issuance of LOA.
2	Handing over of stations to Selected Bidder	Within 10 days after deposition of due payments by the bidder in accordance with LOA License.
3	Duration of License Period	09 years from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period subject to Lock-in period of 2 years
4	Signing of License Agreement	Within 30 days after handing over of the first locations
5	Commencement of License Fee	License Fee shall commence immediately from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period.
6	Payment of First Quarterly License Fee/Advance License Fee by Licensee to Maha-Metro	Within 07 days of commencement of license fee.
7	One time Lump-Sum Charges: Non-Refundable	One time Lumpsum charges for the handed over stations and section only shall be paid along with the License Fee in a single installment.

7 INSTRUCTIONS TO BIDDERS

A. GENERAL

7.1 General terms of Bidding

a. Scope of Bid – At the Bid Stage, Maha-Metro wishes to receive Bids comprising the following:

- Technical Bid from Bidders, in order to shortlist experienced and capable Bidders;

  and
- Financial Bid comprising License Fees per Sq.ft. per month and Total Annual License Fee per year for licensed space for which the Bid is submitted.

b. No Bidder shall submit more than one financial quote.

c. The Bidders are expected to carry out the surveys, investigations and other detailed examination of this areas, at their own cost, before submitting their Bids.

d. Notwithstanding anything to the contrary contained in the Bidding Documents, the detailed terms specified in the draft License Agreement shall have overriding effect; provided, however, that any conditions or obligations imposed on the Bidder hereunder shall continue to have effect in addition to its obligations under the License Agreement.

e. The Technical Bid of the Bid should be furnished only in the formats at Annexures - 2 to 17 attached to this Bid Document and Financial Bid of the Bid should be furnished only in the format at Annexure-15 with amount in both figures and words, in Indian Rupees and signed by the Bidder's authorised signatory. In the event of any difference between figures and words, the amount indicated in words shall be considered.

f. The Financial Bid shall consist of an offer/ bid of the License Fees quoted by the Bidder for undertaking the aforesaid work, in accordance with the Bidding Documents and the License Agreement.

   Bids are invited in this tender based on the **Highest License Fees to be paid for licensed space at the selected location(/s).**

   Considering the approximate areas available, the Bidder who quotes the **Highest License Fees (applicable for Base Year), to be paid to Maha-Metro,** in their Financial Bid shall be termed as Highest Bidder.

g. Any condition or qualification or any other stipulation contained in the Bid shall render the Bid liable to rejection as a non-responsive Bid.

h. The Bid and all communications in relation to or concerning the Bidding Documents and the Bid shall be in English language. All the documents comprising the Bid (signed wherever required) shall be submitted on or before the Bid Due Date in the prescribed format given in this Bid Document. No other mode of submission is acceptable. Bid Parameter duly filled in is to be submitted in the format provided in “Annexure-15.

i. Representative of the Bidder, who chooses to attend, may attend the opening of the Financial Bids. However, such representatives shall be allowed to attend the opening of the Bids, only, if such person presents the letter of authority issued in his name by the Bidder on his letter head.

j. Documents mentioned to be submitted in the Bidding Documents to Maha-Metro are required to be submitted by the Bid Due Date.

k. The Bidding Documents including this Bid Document and all attached documents, provided by Maha-Metro are and shall remain the property of Maha-Metro and are transmitted to the Bidders solely for preparation and the submission of a Bid in accordance herewith. Bidders are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Bid. The provisions of this Clause shall also apply mutatis mutandis to Bids and all other documents submitted by the Bidders, and Maha-Metro will not return to the Bidders any Bid, document or any information provided along therewith.

l. This Bid Document is not transferable.

m. Any award of this Project pursuant to this Bid Document shall be subject to the terms of Bidding Documents.

n. The following conditions shall be adhered to while submitting a Bid:

(a) Bidders should attach clearly marked and referenced continuation sheets in the event that the space provided in the prescribed Bid Forms/annexures is insufficient;

(b) Information supplied by a Bidder must apply to the Bidder, Member or subsidiary named in the Bid and not, unless specifically requested, to other associated companies or firms; and

(c) At the time of responding to the qualification submissions, Bidders should demonstrate their capabilities in accordance with this Bid Document.

o. Notwithstanding anything to the contrary contained herein, in the event that the Bid Due Date falls within three months of the closing of the latest financial year of a Bidder, it shall ignore such financial year for the purposes of its Bid and furnish all its information and certification with reference to such year(s) immediately preceding its latest financial year. For the avoidance of doubt, financial year shall, for the purposes of Bid hereunder, mean the accounting year followed by the Bidder in the course of its normal business.

7.2 **Cost of Bidding**

The Bidders shall be responsible for all the costs associated with the preparation of their Bids and their participation in the Bidding Process. In the event the Bidder is identified as the Selected Bidder at the Bid Stage, it shall be solely responsible for all the costs associated with execution of the License Agreement, including applicable stamp duty and registration fee etc. payable thereon. Maha-Metro will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

7.3 **Site visit and verification of information**

7.3.1 It is the responsibility of the Bidders to submit their respective Bids after visiting the Project Site and Bidders shall be deemed to have understood and ascertained for themselves the site conditions, traffic, location, surroundings, climate, availability of power, water and other utilities, access to site, handling and storage of materials, sewerage disposal, applicable laws and regulations, and any other matter considered relevant by them. Maha-Metro assumes no responsibility or liability in respect thereof. Prior to carrying out Site visit, Bidder may contact the Officer-In-Charge.

7.3.2 Acknowledgment by Bidder - It shall be deemed that by submitting a Bid, the Bidder has:

- made a complete and careful examination of requirements, specifications, instructions and other information set forth in the Bidding Documents;

- made complete and careful examination of the requirements to determine the challenges, difficulties and matters incidental to performance of its obligations including but not limited to conditions of the available space, applicable Laws and applicable permits, requirements to get clearances from various authorities and all other matters that might affect the Selected Bidder/ Licensee's performance under the License Agreement pursuant to the Bidding Documents and License Agreement;
- determined to its satisfaction the nature and extent of all difficulties, hazards and risks involved in performance of the obligations involved and accepts all such risks and responsibilities directly or indirectly connected with Project execution;
- received all relevant information requested from Maha-Metro;
- accepted the risk of inadequacy, error or mistake in the information provided in the Bidding Documents or furnished by or on behalf of Maha-Metro relating to any of the matters specified in clause 7.3.1 above and the entire RFP document;
- satisfied itself about all matters, things and information including matters referred to in Clause 7.3.1 hereinabove, necessary and required for submitting an informed Bid, execution of this Project in accordance with the Bidding Documents and performance of all of its /Licensee's obligations there under;
- acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information provided in the Bidding Documents or ignorance of any of the matters referred to in Clause 7.3.1 hereinabove shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profits etc. from Maha-Metro, or a ground for termination of the License Agreement by the Licensee.
- acknowledged that it does not have a Conflict of Interest; and
- agreed to be bound by the undertakings provided by it under and in terms hereof.

7.3.3 Maha-Metro does not accept any responsibility and shall not be liable for any omission, mistake, inaccuracies or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the Bidding Documents or the Bidding Process, including any error or mistake therein or in any information or data given by Maha-Metro as their verification is the responsibility of the Bidder.

7.4 Verification and Disqualification

7.4.1 Notwithstanding anything contained in the Bidding Documents, Maha-Metro reserves the right to accept or reject any Bid and to annul the Bidding Process and reject all Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof. In the event that Maha-Metro rejects or annuls all the Bids, it may, in its discretion, invite fresh Bids.

7.4.2 Maha-Metro reserves the right to verify all statements, information and documents submitted by the Bidder in response to the Bidding Documents and the Bidder shall, when so required by Maha-Metro, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by Maha-Metro shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of Maha-Metro there under. Notwithstanding anything to the contrary contained in the Bid Document, Maha-Metro may, at its sole discretion, waive any minor infirmity, non-conformity or irregularity in a Bid that does not constitute a material deviation or does not prejudice or affect the relative position of any Bidder, provided it conforms to all the terms, conditions of the Bidding Documents without any material deviation, objections, conditionalities or reservations. A material deviation, objection,

conditionality or reservation is one that (a) affects in any substantial way, the scope, quality or performance of a contract; (b) that limits, in any substantial way, inconsistent with the Bidding Documents, Maha-Metro's right or the Selected Bidder's obligations under the contract; or (c) where rectification would unfairly affect the competitive position of other Bidders who are presenting responsive Bids.

7.4.3 Maha-Metro reserves the right to reject any Bid and forfeiture of the Bid Security if:

(a) at anytime, a material misrepresentation is made or uncovered, or

(b) the Bidder does not provide, within the times specified by Maha-Metro, the supplemental information sought by Maha-Metro for evaluation of the Bid. Such misrepresentation / improper response shall lead to the disqualification of the Bidder.

7.4.4 In case it is found during the evaluation or at any time before signing of the License Agreement or after its execution and during the period of subsistence thereof, that one or more of the qualification conditions have not been met by the Bidder, or the Bidder has made material misrepresentation or has given any materially incorrect or false information, the Bidder shall be disqualified forthwith if not yet appointed as the Licensee either by issue of the LOA or entering into of the License Agreement, and if the Selected Bidder/SPC has already been issued the LOA or has entered into the License Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in the Bidding Documents, be liable to be terminated, by a communication in writing by Maha-Metro to the Selected Bidder or the Licensee, as the case may be, without being liable in any manner whatsoever to the Selected Bidder or Licensee. In such an event, Maha-Metro shall be liable to take necessary action as per the terms and conditions of the Bidding Documents including forfeiture of the Bid Security, as the case may be, as damages, without prejudice to any other right or remedy that may be available to Maha-Metro under the Bidding Documents and/or the License Agreement, or under Applicable Law, or otherwise.

7.4.5 Maha-Metro reserves the right to amalgamate/sub-divide the available Space(s).

B. RFP DOCUMENTS

7.5 Contents of the Bid Document

7.5.1 This Bid Document comprises the Disclaimer set forth hereinabove, the contents as listed below, Bid Notice and will additionally include any Addenda issued in accordance with this Bid Document.

- Introduction
- Definitions
- Notice Inviting Tenders
- Eligibility Criteria
- Objective and Scope
- General Terms
- Instructions to Bidders
- Fraud and Corrupt Practices
- Pre-Bid Conference
- Miscellaneous

ANNEXURES 1 to 17

7.5.2 The exhibits provided by Maha-Metro as part of the Bidding Documents shall be deemed to be part of the Bidding Documents.

7.6 Clarifications

7.6.1 Bidders requiring any clarification on the Bid Document may notify Maha-Metro in writing or by fax or e-mail. They should send in their queries on or before the date mentioned in the Schedule of Bidding Process. Maha-Metro shall endeavor to respond to the queries Maha-Metro will upload all the queries and its responses thereto on the official website of Maha-Metro i.e. https://mahametrorail.etenders.in as per the Schedule of Bidding Process, along with the Addendum, if any.

7.6.2 Maha-Metro shall endeavor to respond to the questions raised or clarifications sought by the Bidders. However, Maha-Metro reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring Maha-Metro to respond to any question or to provide any clarification.

7.6.3 Maha-Metro may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Bidders. All clarifications and interpretations issued by Maha-Metro shall be deemed to be part of the Bidding Documents. Verbal clarifications and information given by Maha-Metro or its employees or representatives shall not in any way or any manner be binding on Maha-Metro.

7.7 Amendment of Bid Document

7.7.1 At any time prior to the Bid Due Date, Maha-Metro may, for any reason, whether at its own initiative or in response to clarifications requested by a Bidder, modify the Bidding Documents by the issuance of Addenda.

7.7.2 Any Addendum issued hereunder will be uploaded on the website of Maha-Metro i.e. "https://mahametrorail.etenders.in" along with the amended / revised Bid Document before the Bid Due Date. All Bidders are therefore advised to see the website of Maha-Metro for any addendum/ amendment which shall be submitted along with the Bid and will be binding on all Bidders. No separate information will be issued either by post, fax or e-mail to prospective Bidders who have purchased the Bid Document.

C. PREPARATION AND SUBMISSION OF BIDS

7.8 Format and Signing of Bid

7.8.1 Language- The Bid and all related correspondence and documents in relation to the Bidding Process shall be in English language. Supporting documents and printed literature furnished by the Bidder with the Bid may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Bidder. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Bid, the English language translation shall prevail.

7.8.2 The Bidder shall provide all the information/ documents sought under this Bid Document by way of online submission of scanned copy of the original information/documents comprising the Bid to Maha-Metro, on or prior to the Bid Due Date and also as mentioned in the Bid Notice. Maha-Metro will evaluate only those Bids that are received in the required formats and complete in all respects, as well as duly filled, signed and sealed for submission. Incomplete and /or conditional Bids shall be liable to rejection.

7.8.3 The Bid shall be typed in indelible ink and signed by the authorized signatory of the Bidder who shall also sign each page, in blue ink. In case of printed and published documents, only the cover shall be signed. All the alterations, omissions, additions or any other amendments made to the Bid shall be signed by the authorised signatory of Bidder. The Bid shall be page numbered.

7.9 **Submission of online bid.**

7.9.1 The bid is to be submitted electronically through E-Tendering of Maha-Metro E-Tender portal https://mahametrorail.etenders.in.

a. The Bid shall be uploaded under two heads – Technical Bid and Financial Bid.
b. The Bidders will be required to fill up formats for Technical Bid; scanned it and upload the same along with all supporting documents under the head of Technical Bid.
c. The Bidder shall submit the Financial Bid in the Financial/ Commercial Bid option available online.
d. The contents of Technical Bid and Financial Bid shall be as mentioned below.

7.10 **Contents in BID**

7.10.1 The Technical Bid should be uploaded in the "Technical Section" available on the online e-tendering portal and should contents the following**:**

i. The receipt/ proof of payment of Bid Document Fee
ii. Proof of Bid Security
iii. Duly signed/sealed Bid Document;
iv. Covering Letter for Bid in the prescribed format (Annexure-2) along with all Annexures
v. Power of Attorney for signing the Bid as per the format at Annexure-6;
vi. Copies of Memorandum and Articles of Association, if the Bidder is a body corporate, and if a partnership firm then a copy of its partnership deed and other charter documents, PAN card etc., as the case may be; and
vii. Bidder's duly audited balance sheet and profit and loss account for the preceding 3 (three) financial years immediately preceding the Bid Due Date along with ITRs (income tax returns).
viii. The Financial Bid should be uploaded in the **"Financial** Section available on the online e-tendering portal and shall be submitted as per Annexure- 15.
ix. In case of any clarification or correspondence, the Officer-In-Charge to be contacted is as under:

a. Executive Director (Procurement & Contracts)
Maharashtra Metro Rail Corporation Ltd.
The Orion, First Floor Opp Don Bosco Youth Centre,
Arjun Mansukhani Marg, Koregaon Park Road, Pune 411001

7.11 **E-Tender Submission**

A. Technical Bid:

7.11.1 The Technical Bid shall be submitted in "Technical Bid Section" on E-Tender Portal of Maha-Metro.

7.11.2 The Bidder shall submit/ upload (through digital signature on e-tender portal of Maha-Metro) in the " "Technical Section".

7.11.3 Bidder shall first download the Complete Bid Document along with all Corrigendum/Addendum/Clarification etc. by logging in with E-Tender using his DSC (i.e. DSC of POA/ DSC of authorized person/Owner) read & examine the document & process carefully.

7.11.4 For submission of Tender Document and Corrigendum, a Tick (√) submission Process has been

enabled in Technical Section of E-Tender Portal of Maha-Metro. Bidders have to tick (√) the corresponding checkbox provided in the Technical Section of E-Tendering portal as a token of acceptance of these bid documents & corrigendum / Addendums and its clauses. By clicking on the tick (√) the bid documents & corrigendum /addendum shall automatically attach to offer of Bidder. Further Bidder may proceed for submission by clicking submit button.

7.11.5 If the Bidder has completed the submission process of his bid before due date & time of submission and in the meantime, employer issue a corrigendum, in these circumstances the Bidder has to re-submit his bid by "clicking tick (√)" to the newly added corrigendum, in case the new corrigendum has any implications to his already submitted bid. Bidder may, at his option, amend his bid accordingly & re-submit it prior to final date & time of submission of bid.

7.11.6 All other enclosure (Physically Signed by authorized person) as per requirement of Bid Document, described in various sections of Bid Document may be attached at appropriate Technical Template or "Additional Document" section of "Technical Section" of E-Tender Portal.

7.11.7 Physical Sign & seal of Bidder on each page of Bid Documents available online is not required.

7.11.8 Scanned copy of all enclosure required as described in the Bid Document at various place shall be uploaded in Technical Section of E-Tender Portal.

7.11.9 Each entity of Technical Section is having a capacity to upload a document of 20 MB.

7.11.10 If any enclosures is more than 20 MB, it may be split by Bidder to the size of 20 MB or less & proceed further for up loading in Technical Section.

7.11.11 If the technical enclosures are more in numbers than the fixed entity of Technical Section, the Bidders have option to upload any number of documents in "Additional Document" section of "Technical Section" of E-Tender Portal.

7.11.12 No information pertaining to "Financial Bid" shall be uploaded or disclosed anywhere in "Technical Bid" of the Technical Section of E-Tender Portal.

7.11.13 All uploaded enclosures should bear page numbers and Indexed properly. The first file uploaded by the Bidder in the technical section shall be "Index of Enclosures"

B. Financial Bid

7.11.14 The Financial Bid is to be submitted in the "Financial Section" on E-Tender Portal of Maha-Metro.

7.11.15 The Financial bid / Price bid shall be filled in the Financial Section of E-Tender Portal. However, in certain cases the BOQ may be required to fill manually & scanned copy may require to be uploaded on Financial Section of E-Tender Portal of Maha-Metro.

7.11.16 Bids submitted by hard copy, fax, telex, telegram, or e-mail shall not be entertained and shall be rejected.

7.11.17 It is to be noted that the Financial Bid shall be submitted in the "Financial" section only. In the event if the financial bid is submitted in the "Technical" Section of the online e-tendering portal, the bids shall be summarily rejected.

7.11.18 The Documents such as original Power of Attorney for signing the Bid and bank guarantees, shall be submitted in physical form before 16.00 hrs on Bid Due Date.

7.12 Bid Due Date

7.12.1 The Bidders are advised to submit their Bids to Maha-Metro well before the time and Bid Due Date specified above through the online e-tendering portal https://mahametrorail.etenders.in.

7.12.2 Maha-Metro shall not be responsible for any delay in submission for any reason. In order to afford the Bidders a reasonable time for taking an Addendum into account, or for any other reason, Maha-Metro may in its sole discretion, extend the Bid Due Date uniformly for all Bidders, in accordance with the provisions of the Bid Document.

7.12.3 Bidders shall submit their Bids in through website- https://mahametrorail.etenders.in on or before the Bid Due Date and time given in the Schedule of Bidding Process.

7.12.4 The Technical Bids of the Bidders will be opened as per the Schedule of Bidding Process. The Financial Bids of only those Bidders who are found to be eligible as per the Eligibility criteria mentioned in the document shall be opened at a subsequent date, after due evaluation of Technical Bids. The date of opening of Financial Bids shall be decided by Maha-Metro and communicated to all technically qualified Bidders online. The Financial Bids of Bidders whose Technical Bids do not meet the eligibility requirements as per the Bidding Documents shall not be eligible for consideration.

7.13 Modifications/ Substitution/ Withdrawal of Bids

7.13.1 As the bid process is through e-tendering portal of Maha-Metro only, any amendment/ modification/substitution of bid can be done by going back into the Re-work option of the e-tender portal prior to the submission of bid.

7.13.2 Withdraw of already uploaded & submitted bid is not possible.

7.13.3 No Bid shall be modified, substituted, or withdrawn by the Bidder after the Bid Due Date & time.

7.14 Rejection of Bids

7.14.1 Notwithstanding anything contained in this Bid Document, Maha-Metro reserves the right to reject any Bid and to annul the Bidding Process and reject all Bids at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof. In the event that Maha-Metro rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.

7.14.2 Maha-Metro reserves the right not to proceed with the Bidding Process at any time, without notice or liability, and to reject any Bid without assigning any reasons.

7.15 Validity of Bids

7.16 The Bids shall be valid for a period of not less than 180 (one hundred and eighty) days from the Bid Due Date. The validity of Bids may be extended by mutual consent of the respective Bidders and Maha-Metro.

7.17 Confidentiality

7.17.1 Information relating to the examination, clarification, evaluation and recommendation for the Bidders shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising Maha-Metro in relation to, or matters arising out of, or concerning the Bidding Process. Maha-Metro will treat all information, submitted as part of the Bid, in confidence and will require all those who have access to such material to treat the same in confidence. Maha-Metro may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/or Maha-Metro or as may be required by law or in connection with any legal process.

7.18 Correspondence with the Bidder

7.18.1 Save and except as provided in this Bid Document, Maha-Metro shall not entertain any correspondence with any Bidder in relation to acceptance or rejection of any Bid.

D. BID SECURITY

7.19 Bid Security

7.19.1 The Bidder shall furnish as part of its Bid, a Bid Security as per the format specified at Annexure-16, in favour of Maha-Metro, the total bid security amount shall be a total of INR 6,00,000/- payable in the form of Bank Guarantee.

7.19.2 A scanned copy of this BG is to be uploaded online and the Bidder should ensure physical submission of the original bank guarantee at the office of MAHA-METRO at address specified in Bidding Documents, within 3 working days from the time and date scheduled for handing over the Bidding Documents (online).

7.19.3 If the Bidder fails to submit the scanned copy at the aforesaid (above) or fails to submit the original bank guarantee, his bid shall not be considered as non-responsive.

7.19.4 It is mandatory for the bidders to submit the Bid security to be considered as responsive.

7.19.5 The Bid security of the unsuccessful Bidder shall be returned upon acceptance of the LOA by the successful Bidder. The Bid Security of successful Bidder shall be returned after successful bidder has signed the Contract Agreement, however in case of Bidder is found to Technically non-responsive, the Bid security shall be returned in 30 days of the results of the Technical evaluation.

7.19.6 Micro and Small Enterprises (MSEs) and the firms registered with concerned Ministries/Departments are exempted from submission of Bid Security, subject to submission of registration certificates along with submission of bid.

7.19.7 The Bid Security shall be valid for a period not less than 28 days beyond the bid validity period.

7.19.8 **The Bidder, by submitting its Bid pursuant to this Bid Document, shall be deemed to have acknowledged and confirmed that if Maha-Metro will suffer loss and damage on account of withdrawal of its Bid or for any other default by the Bidder during the period of Bid validity as specified in this Bid Document then the Bidder will be suspended from being eligible for Bidding in any contract with Maha-Metro for the period of one year starting from the date of such notification by Maha-Metro and forfeiture of Bid Security.**

7.19.9 **Forfeiture of Bid Security-** The Bid Security shall be forfeited, under any of the following conditions:

a. If a Bidder engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice;
b. If a Bidder withdraws or modifies its Bid during the Bid validity period or the extended period, as the case may be;
c. If a Bidder imposes any condition within the Bid validity period or the extended period;
d. If Bidder submits any fake, forged or fabricated documents with the Bid, which fails the verification of its authenticity or having inconsistent or misleading information, shall lead to rejection of Bid & forfeiture of EMD / Bid Security (Partial of full).
e. In the case of Selected Bidder, if it fails within the specified time limit:
   I. to sign and return the duplicate copy of LOA unconditionally;
   II. to sign the License Agreement as per the draft License Agreement, without imposing any conditions; or
   III. to furnish the Performance Guarantee or
   IV. to deposit the first Years Annual License Fees; or
   V. In case the Selected Bidder, before signing the License Agreement, commits any breach hereof

7.20 Performance Security

The Selected Bidder shall submit the Performance Guarantee (as per clause 6.13) as specified below:

7.20.1 The Bank Guarantee towards Performance Guarantee payable at Pune shall be issued from any Scheduled Commercial Bank having branch in India and remain valid for the License Period plus six months.

7.20.2 The Performance Guarantee shall be submitted as the amount equivalent to the Annual License Fee quoted for the ninth (9th) year of the License Period as per the Financial Bid submitted by the Bidder and as per the terms and conditions of the License Agreement.

7.20.3 Maha-Metro reserves the right for deducting the dues from Licensee's Performance Guarantee for: -

- Any penalty imposed by Maha-Metro for violation of any terms and conditions of agreement committed by the Licensee.
- Any amount which Maha-Metro becomes liable to the Government/Third party due to any default of the Licensee or any of his director/ employees/ representatives/ servant/ agent, etc.
- Any payment/ fine made under the order/judgment of any court/consumer forum or law enforcing agency or any person duly empowered in his behalf.
- Any outstanding payment/ claims of Maha-Metro remained due after completion of relevant actions as per this Agreement.

E. EVALUATION OF BIDS

7.21 Opening and Evaluation of Bids

The Bidders have only option to submit their bids electronically through E-Tender portal of Maha-Metro, the electronic bid opening procedure shall be as under:

i. The Technical Bid of Online Submitted Bids shall be opened/ downloaded by the opening committee on due date and time of Bid opening at the office of ED (Procurement& Contracts), Maharashtra Metro Rail Corporation Limited, (Pune Metro Rail Project) The Orion, First Floor, Opp Don Bosco Youth Centre, Arjun Mansukhani Marg, Koregaon Park Road, Pune 411 001 in presence of the Bidders who choose to attend. No minimum number of bids is required in order to proceed to bid opening.

ii. After evaluation of Technical Bid received electronically via E-Tender portal of Maha-Metro, the Financial Bid of the Bid of technically shortlisted Bidders only shall be opened. The date & time of opening of Financial Bid shall be communicated to Technically Selected Bidder electronically (E-mail).

iii. Bids for which a notice of withdrawal has been submitted in accordance with the Bid Document shall not be opened.

iv. Maha-Metro will subsequently examine and evaluate Bids in accordance with the provisions set out in the Bid Document.

v. Bidders are advised that qualification of Bidders will be entirely at the discretion of Maha-Metro. Bidders will be deemed to have understood and agreed that no explanation or justification on any aspect of the Bidding Process or selection will be given.

vi. Any information contained in the Bid shall not in any way be construed as binding on Maha-Metro, its agents, successors or assigns, but shall be binding against the Bidder if this Project is subsequently awarded to it on the basis of such information.

vii. Maha-Metro reserves the right not to proceed with the Bidding Process at any time without notice or liability and to reject any or all Bid(s) without assigning any reasons.

viii. If any information furnished by the Bidder is found to be incomplete, or contained in formats other than those specified herein, Maha-Metro may, in its sole discretion, exclude the relevant project from computation of the Experience Score of the Bidder.

ix. In the event if any Bidder claims credit for any Project, and such claim is determined by Maha-Metro as incorrect or erroneous, Maha-Metro shall reject such claim and exclude the same from computation of the Experience of the Bidder. Where any information is found to be patently false or amounting to a material representation, Maha-Metro reserves the right to reject the Bid in accordance with the provisions of the Bid Document.

x. To facilitate evaluation of Bids, Maha-Metro may, at its sole discretion, seek clarifications in writing from any Bidder regarding its Bid.

7.22 **Tests of responsiveness**

i. Prior to evaluation of the Technical Bids of the Bidders, Maha-Metro shall determine whether each Bid is responsive to the requirements of the Bidding Documents. A Technical Bid shall be considered responsive only if:

(a) it is received as per prescribed formats;
(b) it is received by the Bid Due Date including any extension thereof;
(c) it is signed, sealed, and marked as stipulated;
(d) it is accompanied by relevant Power of Attorney(ies) as specified in Bid Document,
(e) it contains all the information and documents (complete in all respects) as requested in this Bid Document;
(f) it contains certificates from its statutory auditors in the formats specified for determining the Average Annual Turnover and Networth as specified in Clause 4.2.2 of the RFP;
(g) it is accompanied by the Bid Security;
(h) it is accompanied by the full amount of Bid Document Fee or receipt/proof of payment in respect thereof;
(i) it does not contain any condition or qualification.

ii. Similarly, prior to evaluation of Financial Bids, Maha-Metro shall determine whether each Financial Bid is responsive to the requirements of this Bid Document. A Financial Bid shall be considered responsive only if:

(a) it is received as per the format at Annexure- 15;
(b) it is signed, sealed, and marked as stipulated; and
(c) it does not contain any condition or qualification.

iii. Maha-Metro reserves the right to reject any Bid which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by Maha-Metro in respect of such Bid. The decision of Maha-Metro on the responsiveness of the Bid shall be final, conclusive and binding on the Bidder and shall not be called into question by any Bidder on any ground whatsoever.

iv. To facilitate checking the responsiveness and evaluation of Bids, Maha-Metro may at its sole discretion, without being under any obligation to do so, reserves the right to call for any clarification from any Bidder regarding its Bid. Such clarification(s) shall be provided within the

time specified by Maha-Metro for this purpose. If the Bidder does not provide the clarification sought within the prescribed time, its Bid shall be liable to be rejected. In case it is not rejected, Maha-Metro may proceed to evaluate the Bid by construing the particulars requiring clarification to the best of its understanding.

v. No Bidder shall have the right to give any clarification unless asked for by Maha-Metro or to request either Maha-Metro and/or any ministry or department, authority or body whether statutory or non-statutory of the Government that may be concerned or connected, in any manner whatsoever, with the Bidding Process, to intervene in, any manner whatsoever, in the Bidding Process.

7.23 **Contacts during Bid Evaluation**

Bids shall be deemed to be under consideration immediately after they are opened and until such time Maha-Metro makes official intimation of award/ rejection to the Bidders. While the Bids are under consideration, Bidders and/or their representatives or other interested parties are advised to refrain, save and except as required under the Bidding Documents, from contacting by any means, Maha-Metro and/or their employees/representatives on matters related to the Bids under consideration.

7.24 **Bidding process**

i. Maha-Metro has adopted a single stage two steps process (referred to as the "**Bidding Process**") for selection of a suitable Highest Bidder to grant Licensing Rights for the spaces at tunnel and underground Metro Stations of Pune Metro Rail project. The various areas are delineated in Annexure-1. All Bidders shall submit two packets bid viz Technical Bid and Financial Bid (the **"Bid"**) against this RFP in a single step only.

ii. The first step (the "**Qualification Step**") of the process involves qualification (the "**Qualification**") of interested parties based on the Technical Bid submitted by the Bidders in accordance with the provisions of RFP.

iii. At the end of the Qualification Step, the Authority shall inform the technically responsive/qualified Bidders of the date of opening of Financial Bid (the "**Qualified Bidders**").

iv. ***In the Bid Step, Qualified Bidders satisfying the technical bid stage will be considered for opening of Financial Bids***.

v. In the event of two or more Bidders quote the same License Fees per Sq ft. per month, for the (the "Tie Bidders"), Maha-Metro shall identify the Selected Bidder based on the turnover of the Bidder. The Bidder whose Turnover is more shall be termed as Highest Bidder.

vi. In this RFP, the term "**Highest Bidder**" shall mean the Bidder quoting the 'highest License Fees per sq.ft. per month' as payable to Maha-Metro. The Bidder quoting the **Highest License Fees (applicable for Base Year), to be paid to Maha-Metro** shall be declared as Highest Bidder.

vii. Generally, the Selected Bidder shall be the Highest Bidder. The remaining Bidders shall be kept in reserve. In the event if the bid submitted by highest Bidder is withdrawn or is not selected for any reason, the remaining bidders may be invited to match the Bid submitted by the Highest Bidder.

viii. In the event if none of the other Bidders match the Bid of the highest Bidder, Maha-Metro may, in its discretion, invite fresh Bids from all Bidders or annul the Bidding Process, as the case may be.

7.25 **Communication of Award**

(a) After the selection, a Letter of Award (the "LOA") shall be issued, in duplicate, by Maha-Metro to the Selected Bidder. Within 10 (ten) days of the receipt of LOA, the Selected Bidder shall sign and return to Maha-Metro the duplicate copy of the LOA as acceptance and acknowledgement of the same.

(b) In the event, the duplicate copy of the LOA duly signed by the Selected Bidder is not received by the stipulated date, Maha-Metro may, unless it consents to extension of time for submission thereof, shall revoke the LOA and forfeit the Bid Security on account of failure of the Selected Bidder to acknowledge the LOA.

(c) The LOA will constitute the contract between the Selected Bidder and Maha-Metro for fulfilling the requirements specified in the LOA by the Selected Bidder prior to execution of the License Agreement. Notwithstanding anything contained in the LOA and the Bidding Documents, the rights of the Selected Bidder/Licensee as specified in License Agreement shall not become effective until the License Agreement has been executed by the Licensee and Maha-Metro and conditions precedent, if any, has been fulfilled by Selected Bidder / Licensee.

7.26 **Execution of License Agreement**

(a) The Selected Bidder shall be required to appear in person at the office of Maha-Metro or concerned Officer In Charge for this Project, as the case may be, or if the Bidder is a firm, a duly authorized representative shall so appear and execute the License Agreement Within 15 days from the date of deposition of Annual License Fees and Performance Guarantee after fulfilling following conditions -

i. Acknowledgement of Letter of Award issued by Maha-Metro, within 10 (ten) days of its receipt by signing and returning its duplicate copy to Maha-Metro;

ii. Payment of First Quarterly License Fee/Advance License Fee by Licensee to Maha-Metro within 07 days of commencement of license fee.

iii. Payment of appropriate Stamp duty as applicable for of signing of License Agreement.

iv. Submission of appropriate value Stamp paper for signing of agreement.

v. Submission of Performance Guarantee.

(b) The License Agreement, in terms of the Bidding Documents, shall be executed in single copy. The Original duly registered License Agreement will be retained by Maha-Metro and the colour copy of the agreement shall be handed over to the Licensee for further reference. The License Agreement is required to be executed by the Bidder as per specimen specified in Annexure- 10 of this Bid Document.

(c) The stamp duty and registration fees for the License Agreement, if required under Applicable Laws, shall be borne, and paid by the Licensee.

(d) In case of delay in signing the License Agreement either on account of delay in fulfilling the above conditions within the specified time limit or otherwise, Maha-Metro may extend the period specified above, for a maximum period cumulatively not exceeding 90 (Ninety) days from the date of issuance of LOA.

(e) Failure to fulfil any of the conditions specified hereinabove shall constitute a breach of the contract submitted by the Bidder the LOA shall be treated as cancelled.

(f) In the event the Selected Bidder refuses to execute the License Agreement as hereinabove provided, Maha-Metro may at its sole discretion, conclude that such Bidder has abandoned the contract and thereupon its Bid, LOA and acceptance thereof shall be treated as cancelled and

Maha-Metro shall be entitled to forfeit the full amount of any payments made by the Licensee, as damages for such default.

(g) Schedule of Various Stages: Bidder to refer clause 6.19.

8 FRAUD AND CORRUPT PRACTICES

8.1 The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process and subsequent to the issue of the LOA and during the subsistence of the License Agreement. Notwithstanding anything to the contrary contained herein, or in the LOA or the License Agreement, Maha-Metro shall reject a Bid, withdraw the LOA, or terminate the License Agreement, as the case may be, without being liable in any manner whatsoever to the Bidder or Licensee, as the case may be, if it determines that the Bidder or Licensee, as the case may be, has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process. In such an event, Maha-Metro shall forfeit any payments received from the Bidder as mutually agreed genuine pre-estimated compensation and damages payable to Maha-Metro towards, inter alia, time, cost and effort of Maha-Metro, without prejudice to any other right or remedy that may be available to Maha-Metro hereunder or otherwise.

8.2 Without prejudice to the rights of Maha-Metro under Clause 8.1 hereinabove and the rights and remedies which Maha-Metro may have under the LOA or the License Agreement or otherwise, if a Bidder or Licensee, as the case may be, is found by Maha-Metro to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, or after the issue of the LOA or the execution of the License Agreement, such Bidder or Licensee shall not be eligible to participate in any tender or RFP issued by Maha-Metro during a period of 2 (two) years from the date such Bidder or Licensee, as the case may be, is found by Maha-Metro to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

8.3 For the purposes of this Clause 8, the following terms shall have the meaning hereinafter respectively assigned to them:

8.4 **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of Maha-Metro who is or has been associated in any manner, directly or indirectly with the Bidding Process or the LOA or has dealt with matters concerning the License Agreement or arising therefrom, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of Maha-Metro, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or (ii) engaging in any manner whatsoever, whether during the Bidding Processor after the issue of the LOA or after the execution of the License Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the License Agreement, who at any time has been or is a legal, financial or technical adviser of Maha-Metro in relation to any matter concerning the Project;

(a) **"fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;

(b) **"coercive practice"** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process;

(c) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by Maha-Metro with the objective of canvassing, lobbying or in any

manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and

(d) **"restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

9 PRE-BID CONFERENCE

9.1 Pre-Bid conferences of the Bidders shall be convened on as per NIT.

9.2 Maximum of two representatives of each Bidder shall be allowed to participate on production of authority letter from the Bidder.

9.3 During the course of Pre-Bid conference, the Bidders will be free to seek clarifications and make suggestions for consideration of Maha-Metro. Maha-Metro shall endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

9.4 Non-attendance at the Pre-Bid conference will not be a cause for disqualification of a Bidder.

9.5 Maha-Metro, in its sole discretion and without incurring any obligation, may convene more than one Pre-Bid conference, if considered necessary.

9.6 The replies to queries shall be uploaded on website 'https://mahametrorail.etenders.in' of Maha-Metro as per the Schedule of Bidding Process along with amendments, if any.

10 MISCELLANEOUS

10.1 The Bidding Process shall be governed by, and construed in accordance with, the laws of India and depending on the pecuniary jurisdiction the Courts at Pune or the Bombay High Court shall have exclusive jurisdiction over all disputes arising under, pursuant to and/ or in connection with the Bidding Process.

10.2 Maha-Metro, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to;

(a) suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates or other terms and conditions relating thereto;

(b) consult with any Bidder in order to receive clarification or further information;

(c) retain any information and/ or evidence submitted to Maha-Metro by, on behalf of, and/ or in relation to any Bidder; and/ or

(d) independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Bidder.

10.3 It shall be deemed that by submitting the Bid, the Bidder agrees and releases Maha-Metro, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection herewith and waives any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or future.

10.4 The Bidding Documents are to be taken as mutually explanatory and, unless otherwise expressly provided elsewhere in this Bid Document, in the event of any conflict between them the priority shall be in the following order:

i. License Agreement
ii. the Letter of Acceptance,
iii. All corrigendum issued if any
iv. Conditions of Bid document
v. Annexure & Addendum
vi. Drawings, if any
vii. Enclosures and any other documents forming part of the Contract.

10.5 If a Bidder finds discrepancies in or omissions in any of the Bid Forms/annexures or if it is in doubt as to their meaning, it should at once notify Maha-Metro on or before the date specified by Maha-Metro for pre-bid queries, which may send written instructions to all Bidders. It shall be understood that every endeavour shall be made to avoid any error which can materially affect the basis of the Bid and the Selected Bidder shall take upon itself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on this account thereof.

Annexure-1: Details of Location

Schedule	Section Name	Stn Sr.	Metro Station	Chainage in m		Tunnel Length (In Mtrs)
				From	To	
1.	Under ground Metro Stations		Ramp	10300	10431	131
		1	Shivajinagar	10431	11806	1375
		2	Civil Court	11806	12756	950
		3	Budhwar Peth	12756	13609	313
		4	Mandai	13609	14608	999
		5	Swargate	14608	16097	1489
		End of Tunnel		16097	16447	350
		5 Nos. of Stations		Total	6,147 Mtrs. (Tunnel Length) + (Station Box)	

Annexure – 2: Covering Letter for the Bid

(*On the Letter Head of the Bidder)*

Bid Document No.: …… **Dated:**

To,

The ED/Procurement & Contracts
Maharashtra Metro Rail Corporation Limited
(Pune Metro Rail Project)
The Orion, First Floor, Opp Don Bosco Youth Centre,
Arjun Mansukhani Marg, Koregaon Park Road,
Pune 411 001

Sub: Bid for "Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP) "

Dear Sir,

With reference to above subject, I/we, having examined the Bidding Documents and understood their contents, hereby submit my/our Bid for the aforesaid 'Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)'. The Bid is unconditional and unqualified.

1. I/ We acknowledge that Maha-Metro shall be relying on the information provided in the Bid and the documents accompanying the Bid for selection of the Licensee for the aforesaid subject, and we certify that all information provided therein is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying the Bid are true copies of their respective originals.
2. This statement is made for the express purpose of our selection as Licensee for the aforesaid subject. I/ We shall make available to Maha-Metro any additional information it may find necessary or require supplementing or authenticate the Bid.
3. I/ We acknowledge the right of Maha-Metro to reject our Bid without assigning any reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
4. I/ We declare that:
    (a) I/ We have examined and have no reservations to the Bidding Documents, including Addendum/ Corrigendum, if any, issued by Maha-Metro; and
    (b) I/ We do not have any conflict of interest in accordance with provisions of the Tender document; and
    (c) I/ We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or

restrictive practice, as stipulated in the tender document, in respect of any Bid or tender document issued by or any agreement entered into with Maha-Metro; and

(d) I/ We hereby certify that we have taken steps to ensure that in conformity with the provisions of the Tender, no person acting for us or on our behalf has engaged or shall engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice; and

(e) the undertakings given by me/us along with the Application in response to the Tender for the above subject were true and correct as on the date of making the Bid Application and are also true and correct as on the Bid Due Date and I/we shall continue to abide by them.

5. I/ We understand that Maha-Metro may cancel the Bidding Process at any time and that you are neither bound to accept any Bid that you may receive nor to invite the Bidders to Bid for the above subject, without incurring any liability to the Bidders, in accordance with provisions of the Tender document.

6. I/ We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by Maha-Metro in connection with the selection of the Bidder, or in connection with the Bidding Process itself, in respect of the above-mentioned subject License Agreement and the terms and implementation thereof.

7. In the event of my/ our being declared as the Selected Bidder, I/we agree to enter into a License Agreement in accordance with the draft that has been provided to me/ us prior to the Bid Due Date. We agree not to seek any changes in the aforesaid draft and agree to abide by the same.

8. I/ We have studied all the Bidding Documents carefully and also surveyed the Maha-Metro Space. We understand that except to the extent as expressly set-forth in the License Agreement, we shall have no claim, right or title arising out of any documents or information provided to us by Maha-Metro or in respect of any matter arising out of or relating to the Bidding Process including the award of License Agreement.

9. I/ We have submitted the Bid Security to Maha-Metro in accordance with the Tender Document. The documents accompanying the Bid, as specified in Tender Document, have been submitted.

10. I/ We agree and understand that the Bid is subject to the provisions of the Bidding Documents. In no case, I/we shall have any claim or right of whatsoever nature if the licensing rights as mentioned in above subject are not awarded to me/us or our Bid is not opened or rejected.

11. The financial offer has been quoted by me/us after taking into consideration all the terms and conditions stated in the Tender Document, draft License Agreement, addenda /corrigenda, our own estimates of costs and after a careful assessment of the site and all the conditions that may affect the project cost and implementation of the project.

12. I/ We agree and undertake to abide by all the terms and conditions of the Tender document.

13. I/We agree and undertake to be jointly and severally liable for all the obligations of the Licensee under the License Agreement for the License period in accordance with the Agreement.

14. I/ We shall keep this offer valid for 180 (one hundred and eighty) days from the Bid Due Date specified in the Tender.

In witness thereof I/ We submit this Bid under and in accordance with the terms of the Bid Document.

Yours faithfully

Date:……. (Signature of the Authorised signatory)

Place:…….. (Name and designation of the Authorized signatory)

(Name and Seal of Bidder)

Note:-

– All blank spaces in the Bid Forms/annexures of this Bid Document shall be suitably filled up by the Bidder to reflect the particulars relating to such Bidder. Any information which is not applicable for the Bidder may be omitted or modified as necessary to reflect Bidder-specific particulars.

– Strike out whichever is not applicable, if the Bidder is not an individual, as the case may be.

Enclosed:-

1. Bid Security is submitted.
2. Other documents as per the prescribed formats

Annexure – 3:
Letter of Acceptance

[letterhead paper of the Employer]

[date]

To: *[name and address of the Contractor]*

This is to notify you that your Bid dated *[date]* for execution of the *[name of the Contract and identification number, as given in the Contract Data]* for the Accepted Contract Amount *[amount in numbers and words] [name of currency]*, as corrected and modified in accordance with the Instructions to Bidders, is hereby accepted by our institution.

You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract.

Authorized Signature: _____
Name and Title of Signatory: _____
Name of institution: _____

Annexure - 4:

Tool Kit for using E-Tender

(Tool Kit for using E-Tender Portal of Maha-Metro)

TENDERING PROCEDURE

A] Tender Forms.

i. Tender Forms can be purchased from the e-Tendering Portal of Maha-Metro, i.e. https://mahametrorail.etenders.in after paying Tender Fees via online **mode** as Per the **Tender Schedule.**

ii. Bidder should have valid class II/III digital signature certificates (DSC) obtain from any certifying authorities.

iii. Bidder should install the Java and NxtCrypto service available on the Home Page of Download section URL :- https://mahametrorail.etenders.in

B] Pre-requisites to participate in the Tenders processed by Maha-Metro:

i. Enrolment of Contractors on Electronic Tendering System:

The Contractors interested in participating in the Tenders of Maha-Metro processed using the Electronic Tendering System shall be required to enroll on the Electronic Tendering System to obtain User ID.

If the information is found to be complete, the enrolment submitted by the Vendor shall be approved automatically.

The Contractors may obtain the necessary information on the process of enrolment either from Helpdesk Support Team or may visit the information published under the link Help manual and tutorials on the Home Page of the Electronic Tendering System.

ii. **Obtaining a Digital Certificate:**

The Bid Data that is prepared online is required to be encrypted and the hash value of the Bid Data is required to be signed electronically using a Digital Certificate (Class - II or Class - III). This is required to maintain the security of the Bid Data and also to establish the identity of the Contractor transacting on the System.

The Digital Certificates are issued by an approved Certifying Authority authorized by the Controller of Certifying Authorities of Government of India through their Authorized Representatives upon receipt of documents required to obtain a Digital Certificate.

Bid data / information for a particular Tender may be submitted only using the Digital Certificate which is used to encrypt the data / information and sign the hash value during the Tender Submission stage. In case during the process of preparing and submitting a Bid

for a particular Tender, the Contractor loses his/her Digital Signature Certificate (i.e. due to virus attack, hardware problem, operating system problem); he / she may not be able to submit the Bid online.

Hence, the Users are advised to store his / her Digital Certificate securely and if possible, keep a backup at safe place under adequate security to be used in case of need.

In case of online tendering, if the Digital Certificate issued to an Authorized User of a Partnership Firm is used for signing and submitting a bid, it will be considered equivalent to a no objection certificate / power of attorney to that User to submit the bid on behalf of the Partnership Firm. The Partnership Firm has to authorize a specific individual via an authorization certificate signed by a partner of the firm (and in case the applicant is a partner, another partner in the same form is required to authorize) to use the digital certificate as per Indian Information Technology Act,2000.

Unless the Digital Certificate is revoked, it will be assumed to represent adequate authority of Maha-Metro User to bid on behalf of the Firm for the Tenders processed on the Electronic Tender Management System of Government of Maharashtra as per Indian Information Technology Act, 2000. The Digital Signature of this Authorized User will be binding on the Firm. It shall be the responsibility of Partners of the Firm to inform the Certifying Authority or Sub Certifying Authority, if the Authorized User changes, and apply for a fresh Digital Signature Certificate. The procedure for application of a Digital Signature Certificate will remain the same for the new Authorized User.

The same procedure holds true for the Authorized Users in a Private / Public Limited Company. In this case, the Authorization Certificate will have to be signed by the Director of the Company or the Reporting Authority of the Applicant.

For information on the process of application for obtaining Digital Certificate, the Contractors may visit the section Digital Signature Forms on the Home Page of the Electronic Tendering System.

iii. **Recommended Hardware and Internet Connectivity:**

To operate on the Electronic Tendering System, the Contractors are recommended to use Computer System with at least 1 GB of RAM and broadband connectivity with minimum 512 kbps bandwidth.

iv. **Set up of Computer System for executing the operations on the Electronic Tendering System:**

To operate on the Electronic Tendering System of Maha-Metro, the Computer System of the Contractors is required be set up. The Contractors are required to install Utilities available under the section Downloads on the Home Page of the System.

The Utilities are available for download freely from the above-mentioned section. The Contractors are requested to refer to the Help manual and Tutorials available online on the Home Page to understand the process of setting up the System, or alternatively, contact the Helpdesk Support Team on information / guidance on the process of setting up the System.

C) The e-tender portal contains two section Technical Bid Submission & Financial Bid Submission.

i. **Technical Bid Section: - Technical Bid Section shall contain all Documents and enclosures as directed in NIT, ITT and EQ. Bidder shall upload the PDF copy of such documents in Technical Section only.**

ii. **Financial Bid Section: - All prices/Commercial offers/ or any information pertain to commercial offer required by Maha-Metro from the Bidders, shall be filled/ uploaded (If directed by Maha-Metro) in Financial bid Section only.**

iii. **No information pertaining to Financial Bid section should be uploaded/disclosed in Technical Bid Section or vice versa.**

D) Steps to be followed by Contractors to participate in the e-Tenders processed by Maha-Metro.

i. **Preparation of online Briefcase:**

All Contractors enrolled on the Electronic Tendering System of Maha-Metro are provided with dedicated briefcase facility to store documents / files in digital format. The Contractors can use the online briefcase to store their scanned copies of frequently used documents / files to be submitted as a part of their bid response. The Contractors are advised to store the relevant documents in the briefcase before starting the Tender Submission stage.

In case, the Contractors have multiple documents under the same type (e.g. multiple Work Completion Certificates) as mentioned above, the Contractors advised to either create a single .pdf file of all the documents of same type or compress the documents in a single compressed file in .zip or .rar formats and upload the same.

Note: Uploading of documents in the briefcase does not mean that the documents are available to Maha-Metro at the time of Tender Opening stage unless the documents are specifically attached to the Tender during the Tender Submission stage.

ii. **Online viewing of Detailed Notice Inviting Tenders:**

The Contractors can view the Detailed Tender Notice (NIT) along with the Time Schedule (Key Dates) for all the Live Tenders released by Maha-Metro and Eligibility Criteria (EQ) on the home page of Maha-Metro e-Tendering Portal on https://mahametrorail.etenders.in under the section Online Tenders. Viewing & downloading the NIT & EQ is free of cost.

iii. **Download of Tender Documents:**

After going through the NIT & EQ, if Bidder finds himself eligible for the bidding, he may purchase the complete bid document via online mode by paying the cost of Tender Document by Debit Card/Credit Card/ Net Banking as described on E-Tender Portal. After paying the cost of the document, Bidder may download the complete bid documents.

iv. **Online Submission of Bid:**

a. At the stage of EMD, the EMD payment may be either in the form of Cash or Bank Guarantee or combination of both. Bidders are advised to refer the Instruction to Tenderers and Bid Data Sheet of the concerning Bid. For detail provision of payment of EMD, Bidders are advised to refer concerning clause of Bid Document

b. For Cash component Payment of EMD, which Bidder has to pay online using any one online pay mode as RTGS, NEFT, Debit Card, Credit Card & Net Banking through payment gateway of E-Tender Portal. For EMD payment, if Bidder use NEFT or RTGS then system will generate a challan (in two Copies) with unique challan No specific to the tender. Bidder will use this challan in his bank to make NEFT/RTGS Payment against the challan.

c. Bidder should ensure the payment of online EMD, 72 Hours (Excepting Holiday if any) prior to the final submission date of the Bid.*

d. Bidder have the option to pay EMD either at the initial stage of submission of bid or at the final stage of submission of bid, when all mandatory formats/ documents filled/ uploaded.

e. If the EMD is in form of Bank Guarantee or part of EMD in form of BG, scan copy of such BG shall be uploaded by Bidders in technical section of E-Tender Portal.

f. Bidder shall download the Complete Bid Document along with all Corrigendum/Addendum/Clarification etc. by logging in with E-Tender Portal using his DSC (i.e. DSC of POA/ Owner) & read the all tender Instruction & clauses carefully.

g. For submission of Tender Document and Corrigendum, Tick (√) Submission Process has been enabled in Technical section of E-Tender Portal of Maha-Metro. Bidders have to tick (√) the corresponding checkbox provided in the Technical Section of E-Tendering portal as a token of acceptance of these bid documents & corrigendum / Addendums. By clicking the tick (√) the bid documents & corrigendum /addendum shall automatically attached to offer of Bidder. Further Bidder may proceed for submission by clicking submit button.

h. If the Bidder has completed the submission process of his bid before due date of submission and in between employer issue a corrigendum, in these circumstances, the Bidder has to re-submit his bid by "clicking tick (√)" to the new added corrigendum, in case the new corrigendum has any implications to his already submitted bid. Bidder may, at his option, amend his bid accordingly & re-submit it.

i. Physical Sign & seal of Bidder on each page of Bid Documents available online is not required.

j. All required enclosures as per bid document shall be uploaded in the "Technical Section" of E-Tender portal by using DSC of Bidder.

k. The "Technical Section" of E-Tender portal has been provided with facilities to upload a file of maximum size of 20 mb only at each entity.

l. If Bidder are desirous to upload a file more than 20 mb size , he shall spilt the file in two or more parts of 20 mb or lesser than 20 mb each and can upload the same at appropriate Technical Template or "Additional Document" section of "Technical Section" of E-Tender Portal.

Note:

* Realization of NEFT/RTGS payment normally takes 24 hours, so it is advised to make Sure that NEFT/RTGS payment activity should be completed well before time.
* NEFT/RTGS option will be depend on the amount of EMD.
* Help File regarding use of e-Payment Gateway can be downloaded from e-Tendering Portal.

v. Short listing of Contractors for Financial Bidding Process:

The Tendering Authority will first open the Technical Bid documents of all Contractors and after scrutinizing these documents will shortlist the Contractors who are eligible for Financial Bidding Process. The shortlisted Contractors will be intimated by email.

vi. **Opening of the Financial Bids:**

The Contractors may remain present in the Office of the Tender Opening Authority at the time of opening of Financial Bids.

vii. **Tender Schedule (Key Dates)**:

All the online activities are time tracked and the Electronic Tendering System enforces time-locks that ensure that no activity or transaction can take place outside the Start and End Dates and Time of the stage as defined in the Tender Schedule.

At the sole discretion of the Tender Authority, the time schedule of the Tender stages may be extended.

Note: - For details illustrations, please refer or down load the PPT demonstration available on E-Tender portal of https://mahametrorail.etenders.in

Terms and Conditions for Online-Payments

The Terms and Conditions contained herein shall apply to any person ("User") using the services of Maha-Metro Maharashtra, hereinafter referred to as "Merchant", for making Tender fee and Earnest Money Deposit (EMD) payments through an online Payment Gateway Service ("Service") offered by ICICI Bank Ltd. in association with E Tendering Service provider and Payment Gateway Service provider through Maha-Metro Maharashtra website i.e. https://mahametrorail.etenders.in Each User is therefore deemed to have read and accepted these Terms and Conditions.

Privacy Policy:

The Merchant respects and protects the privacy of the individuals that access the information and use the services provided through them. Individually identifiable information about the User is not wilfully disclosed to any third party without first receiving the User's permission, as covered in this Privacy Policy.

This Privacy Policy describes Merchant's treatment of personally identifiable information that Merchant collects when the User is on the Merchant's website. The Merchant does not collect any unique information about the User (such as User's name, email address, age, gender etc.) except when you specifically and knowingly provide such information on the Website. Like any business interested in offering the highest quality of service to clients, Merchant may, from time to time, send email to the User and other communication to tell the User about the various services, features, functionality and content offered by Merchant's website or seek voluntary information from The User.

Please be aware, however, that Merchant will release specific personal information about the User if required to do so in the following circumstances:

a) In order to comply with any valid legal process such as a search warrant, statute, or court order, or available at time of opening the tender.
b) if any of User's actions on our website violate the Terms of Service or any of our guidelines for specific services, or
c) to protect or defend Merchant's legal rights or property, the Merchant's site, or the Users of the site or;
d) to investigate, prevent, or take action regarding illegal activities, suspected fraud, situations involving potential threats to the security, integrity of Merchant's website/offerings. General

Terms and Conditions for E-Payment on E-Tender Portal

1. Once a User has accepted these Terms and Conditions, he/ she may register on Merchant's website and avail the Services.

2. Merchant's rights, obligations, undertakings shall be subject to the laws in force in India, as well as any directives/ procedures of Government of India, and nothing contained in these Terms and Conditions shall be in derogation of Merchant's right to comply with any law enforcement agencies request or requirements relating to any User's use of the website or information provided to or gathered by Merchant with respect to such use. Each User accepts and agrees that the provision of details of his/ her use of the Website to regulators or police or to any other third party in order to resolve disputes or complaints which relate to the Website shall be at the absolute discretion of Merchant.

3. If any part of these Terms and Conditions are determined to be invalid or unenforceable pursuant to applicable law including, but not limited to, the warranty disclaimers and liability limitations set forth herein, then the invalid or unenforceable provision will be deemed superseded by a valid, enforceable provision that most closely matches the intent of the original provision and the remainder of these Terms and Conditions shall continue in effect.

4. These Terms and Conditions constitute the entire agreement between the User and Merchant. These Terms and Conditions supersede all prior or contemporaneous communications and proposals, whether electronic, oral, or written, between the User and Merchant. A printed version of these Terms and Conditions and of any notice given in electronic form shall be admissible in judicial or administrative proceedings based upon or relating to these Terms and Conditions to the same extent and subject to the same conditions as other business documents and records originally generated and maintained in printed form.

5. The entries in the books of Merchant and/or the Payment Gateway Service Providers kept in the ordinary course of business of Merchant and/or the Payment Gateway Service Providers with regard to transactions covered under these Terms and Conditions and matters therein appearing shall be binding on the User and shall be conclusive proof of the genuineness and accuracy of the transaction.

6. **Refund for Charge Back Transaction:** In the event there is any claim for/ of charge back by the User for any reason whatsoever, such User shall immediately approach Merchant with his/ her claim details and claim refund from Merchant alone. Such refund (if any) shall be affected only by Merchant via payment gateway or by means of a demand draft or such other means as Merchant deems appropriate. No claims for refund/ charge back shall be made by any User to the Payment Gateway Service Provider(s) and in the event such claim is made it shall not be entertained.

7. In these Terms and Conditions, the term "**Charge Back**" shall mean, approved and settled credit card or net banking purchase transaction(s) which are at any time refused, debited or charged back to merchant account (and shall also include similar debits to Payment Gateway Service Provider's accounts, if any) by the acquiring bank or credit card company for any reason whatsoever, together with the bank fees, penalties and other charges incidental thereto.

8. Refund for fraudulent/duplicate transaction(s): The User shall directly contact Merchant for any fraudulent transaction(s) on account of misuse of Card/ Bank details by a fraudulent individual/party and such issues shall be suitably addressed by Merchant alone in line with their policies and rules.

9. Server Slow Down/Session Timeout: In case the Website or Payment Gateway Service Provider's webpage, that is linked to the Website, is experiencing any server related issues like 'slow down' or 'failure' or 'session timeout', the User shall, before initiating the second payment,, check whether his/her Bank Account has been debited or not and accordingly resort to one of the following options:

i. In case the Bank Account appears to be debited, ensure that he/ she does not make the payment twice and immediately thereafter contact Merchant via e-mail or any other mode of contact as provided by Merchant to confirm payment.

ii. In case the Bank Account is not debited, the User may initiate a fresh transaction to make payment.

However, the User agrees that under no circumstances the Payment Gateway Service Provider shall be held responsible for such fraudulent/duplicate transactions and hence no claims should be raised to Payment Gateway Service Provider No communication received by the Payment

Gateway Service Provider(s) in this regard shall be entertained by the Payment Gateway Service Provider.

Limitation of Liability of Merchant/ Payment Gateway

1. Merchant has made this Service available to the User as a matter of convenience. Merchant expressly disclaims any claim or liability arising out of the provision of this Service. The User agrees and acknowledges that he/ she shall be solely responsible for his/ her conduct and that Merchant reserves the right to terminate the rights to use of the Service immediately without giving any prior notice thereof.

2. Merchant and/or the Payment Gateway Service Providers shall not be liable for any inaccuracy, error or delay in, or omission of (a) any data, information or message, or (b) the transmission or delivery of any such data, information or message; or (c) any loss or damage arising from or occasioned by any such inaccuracy, error, delay or omission, non-performance or interruption in any such data, information or message. Under no circumstances shall the Merchant and/or the Payment Gateway Service Providers, its employees, directors, and its third party agents involved in processing, delivering or managing the Services, be liable for any direct, indirect, incidental, special or consequential damages, or any damages whatsoever, including punitive or exemplary arising out of or in any way connected with the provision of or any inadequacy or deficiency in the provision of the Services or resulting from unauthorized access or alteration of transmissions of data or arising from suspension or termination of the Services.

3. The Merchant and the Payment Gateway Service Provider(s) assume no liability whatsoever for any monetary or other damage suffered by the User on account of:
(I) the delay, failure, interruption, or corruption of any data or other information transmitted in connection with use of the Payment Gateway or Services in connection thereto; and/ or (ii) any interruption or errors in the operation of the Payment Gateway.

4. The User shall indemnify and hold harmless the Payment Gateway Service Provider(s) and Merchant and their respective officers, directors, agents, and employees, from any claim or demand, or actions arising out of or in connection with the utilization of the Services.

The User agrees that Merchant or any of its employees will not be held liable by the User for any loss or damages arising from your use of, or reliance upon the information contained on the Website, or any failure to comply with these Terms and Conditions where such failure is due to circumstance beyond Merchant's reasonable control.

Miscellaneous Conditions:

Any waiver of any rights available to Merchant under these Terms and Conditions shall not mean that those rights are automatically waived.

1. The User agrees, understands and confirms that his/ her personal data including without limitation details relating to debit card/ credit card transmitted over the Internet may be susceptible to misuse, hacking, theft and/ or fraud and that Merchant or the Payment Gateway Service Provider(s) have no control over such matters.

2. Although all reasonable care has been taken towards guarding against unauthorized use of any information transmitted by the User, Merchant does not represent or guarantee that the use of the Services provided by/ through it will not result in theft and/or unauthorized use of data over the Internet.

3. The Merchant, the Payment Gateway Service Provider(s) and its affiliates and associates shall not be liable, at any time, for any failure of performance, error, omission, interruption, deletion, defect, delay in operation or transmission, computer virus, communications line failure, theft or destruction or unauthorized access to, alteration of, or use of information contained on the Website.

4. The User may be required to create his/ her own User ID and Password in order to register and/ or use the Services provided by Merchant on the Website. By accepting these Terms and Conditions the User agrees that his/ her User ID and Password are very important pieces of information and it shall be the User's own responsibility to keep them secure and confidential. In furtherance hereof, the User agrees to;

    i. Choose a new password, whenever required for security reasons.
    ii. Keep his/ her User ID & Password strictly confidential.
    iii. Be responsible for any transactions made by User under such User ID and Password.

The User is hereby informed that Merchant will never ask the User for the User's password in an unsolicited phone call or in an unsolicited email. The User is hereby required to sign out of his/ her Merchant account on the Website and close the web browser window when the transaction(s) have been completed. This is to ensure that others cannot access the User's personal information and correspondence when the User happens to share a computer with someone else or is using a computer in a public place like a library or Internet cafe.

Debit/Credit Card, Bank Account Details

1. The User agrees that the debit/credit card details provided by him/ her for use of the aforesaid Service(s) must be correct and accurate and that the User shall not use a debit/ credit card, that is not lawfully owned by him/ her or the use of which is not authorized by the lawful owner thereof. The User further agrees and undertakes to provide correct and valid debit/credit card details.

2. The User may make his/ her payment (Tender Fee/Earnest Money deposit) to Merchant by using a debit/credit card or through online banking account. The User warrants, agrees and confirms that when he/ she initiates a payment transaction and/or issues an online payment instruction and provides his/ her card / bank details:

    i. The User is fully and lawfully entitled to use such credit / debit card, bank account for such transactions;

    ii. The User is responsible to ensure that the card/ bank account details provided by him/ her are accurate;

    iii. The User is authorizing debit of the nominated card/ bank account for the payment of Tender Fee and Earnest Money Deposit

iv. The User is responsible to ensure sufficient credit is available on the nominated card/ bank account at the time of making the payment to permit the payment of the dues payable or the bill(s) selected by the User inclusive of the applicable Fee.

Personal Information

1. The User agrees that, to the extent required or permitted by law, Merchant and/ or the Payment Gateway Service Provider(s) may also collect, use and disclose personal information in connection with security related or law enforcement investigations or in the course of cooperating with authorities or complying with legal requirements.

2. The User agrees that any communication sent by the User vide e-mail, shall imply release of information therein/ therewith to Merchant. The User agrees to be contacted via e-mail on such mails initiated by him/ her.

3. In addition to the information already in the possession of Merchant and/ or the Payment Gateway Service Provider(s), Merchant may have collected similar information from the User in the past. By entering the Website, the User consents to the terms of Merchant's information privacy policy and to our continued use of previously collected information. By submitting the User's personal information to us, the User will be treated as having given his/her permission for the processing of the User's personal data as set out herein.

4. The User acknowledges and agrees that his/ her information will be managed in accordance with the laws for the time in force.

Payment Gateway Disclaimer: The Service is provided in order to facilitate payment of Tender Fees/Earnest Money Deposit online. The Merchant or the Payment Gateway Service Provider(s) do not make any representation of any kind, express or implied, as to the operation of the Payment Gateway other than what is specified in the Website for this purpose. By accepting/ agreeing to these Terms and Conditions, the User expressly agrees that his/ her use of the aforesaid online payment service is entirely at own risk and responsibility of the User.

Annexure-5: Details of Bidder

(To be filled by Bidder)

Bid Document No.: P1TL-02/2022 **Dated:**

Sub: Bid for "Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)".

1. Details:
   a. Full Name of Bidder (in block letters):
   b. Constitution of Bidder:
   c. Country of incorporation/ registration/ nationality (whichever is applicable):
   d. Address of the corporate headquarters and its branch office(s), if any, in India:
   e. Date of incorporation and/ or commencement of business/ date of registration/date of birth:
   f. Registration Number:
   g. PAN/TAN Number:
   h. GST Registration Number:

2. Brief description of the Company/ Firm including details of its main lines of business and proposed role and responsibilities in this Project:
3. Details of individual(s) who will serve as the point of contact/ communication for Maha-Metro:
   (a) Name:
   (b) Designation:
   (c) Company:
   (d) Address:
   (e) Telephone Number:
   (f) Mobile Number:
   (g) E-Mail Address:

4. Particulars of the Authorised Signatory of the Bidder:
   (a) Name:
   (b) Designation:
   (c) Address:
   (d) Telephone Number:
   (e) Mobile Number:
   (f) E-mail Address:

(Signature of the Authorised Signatory)
(Name and designation of the Authorised Signatory)
(Name of the Bidder/Lead Member)

Annexure-6: Power of Attorney

(This Form is to be submitted only by Bidder)

(To be executed on Non-Judicial Stamp Paper of appropriate value as prescribed by the Stamp Act of the respective State in which this document is executed (but not less than Rs.100) and duly notarized.)

Bid Document No.: P1TL-02/2022 **Dated:**

Sub: Bid for "Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)".

Know all men by these presents, I/We, {.....} (insert name of the Bidder and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorise Mr./Ms (Name), son/daughter/wife of {.....} and presently residing at {.....},who is presently employed with me/us and holding the position of {.....}, as our true and lawful attorney (hereinafter referred to as the **"Attorney"**) to do in my/our name and on my/our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of my/our Bid for the **Bid for "_____."**, proposed by Maha-Metro (the "Authority") including but not limited to signing and submission of the Bid and all other documents and writings, participate in Bidders' and other conferences and providing information/responses to Maha-Metro, representing me/us in all matters before Maha-Metro, signing and execution of all contracts including the License Agreement and undertakings consequent to acceptance of our Bid, and generally dealing with Maha-Metro in all matters in connection with or relating to or arising out of my/our Bid for the said Project and/or upon award thereof to me/us and/or till the entering into the License Agreement with Maha-Metro.

AND whereby I/we agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by my/our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by my/our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE,....., THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAYOF……, ..., 20…….

Date:

Place:

For.....

{Signature, name, designation and address of person authorised by Board Resolution}

Accepted

(Signature, name, designation and address of the Attorney)

Witnesses:

1.

2.

Person identified by me/ personally appeared before me/signed before me/Attested/ Authenticated*

(*Notary to specify as applicable)

(Signature, Name and Address of the Notary)
Seal of Notary
Registration Number of the Notary
Date: .....

Instructions:

1. The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.
2. The Power of Attorney should be duly supported with the enabling Board Resolutions of the executants. Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.
3. For a Power of Attorney executed and issued overseas, the document will also have to be legalised/consularised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised/consularised by the Indian Embassy if it carries a conforming Appostille certificate.
4. Strike out whichever is not applicable.

Annexure-7: Consortium Agreement/ Memorandum of Understanding

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution, duly signed on each page. Foreign entities submitting the Bid are required to follow the applicable law in their country)

FORM OF CONSORTIUM AGREEMENT BETWEEN
M/S....., M/S.....,
M/S..... AND M/S.....
FOR (……)

THIS Consortium Agreement (hereinafter referred to as "Agreement") executed on this..... day of ..... Two thousand Twelve between

..... a company incorporated under the laws of ..... and having its Registered Office at ....."..... (hereinafter called the "Party 1", which expression shall include its successors, executors and permitted assigns), and

..... a company incorporated under the laws of ..... and having its Registered Office at ....."..... (hereinafter called the "Party 2", which expression shall include its successors, executors and permitted assigns) and

..... a Company incorporated under the laws of ..... and having its Registered Office at ....."....."..... (hereinafter called the "Party 3", which expression shall include its successors, executors and permitted assigns)

(The Bidding consortium should list the name, address of its registered office and other details of all the consortium Members)

for the purpose of submitting the Bid in response to the Bidding Documents and in the event of selection as Successful Bidder to execute the Contract Agreement and/or other requisite documents, and to carry out the '……' ("Works") for PUNE METRO RAIL PROJECT to be awarded by Maharashtra Metro Rail Corporation Limited (hereinafter referred as "MAHA-METRO" or "the Company").

Party 1, Party 2, and Party 3 are hereinafter collectively referred to as the "Parties" and individually as a "Party".

WHEREAS MAHA-METRO desired to engage a contractor for ……. [name of the Works] for Pune Metro Rail Project.

AND WHEREAS the Consortium of [.....] (insert the names of all the Members) intends to participate for the Bid, against the Bidding Documents issued to ……. [Insert the name of purchaser of Bidding Document].

AND WHEREAS clause 4.1 of the Bidding Documents stipulates that the Bidders bidding on the strength of a consortium shall submit a legally enforceable Consortium Agreement in a format

specified in the Bidding Documents.

NOW THEREFORE, THIS INDENTURE WITNESSTH AS UNDER:

In consideration of the above premises and agreement, all the parties in this Consortium do hereby mutually agree as follows:

1. In consideration of the selection of the Consortium as the Successful Bidder by the Company, we the Members of the Consortium and Parties to the Consortium Agreement do hereby unequivocally agree that M/s..... (Insert name of the Lead Member), shall act as the Lead Member as defined in the Bidding Documents for self and agent for and on behalf of ……. (the names of all the other Members of the Consortium to be filled in here) to do on behalf of the Consortium, all or any of the acts, deeds or things necessary or incidental to the Consortium's Bid for the Contract including submission of the Bid, participating in meetings, responding to queries, submission of information/ documents and generally to represent the Consortium in all its dealings with MAHA-METRO or any other Government Agency or any person, in connection with the Works until culmination of the process of bidding till the Contract is entered into with MAHA-METRO and thereafter till the expiry of the Contract.

2. The Lead Member is hereby authorized by the Members of Consortium and Parties to the Consortium Agreement to bind the Consortium, incur liabilities and receive instructions for and on behalf of all Members. It is agreed by all the Members that entire execution of the Contract shall be carried out exclusively through the Lead Member. The Members agree that their respective invoices shall be submitted through Lead Member.

3. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all their respective obligations under the Contract with MAHA-METRO. Each Consortium Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this Agreement.

4. In case of any breach of any of the obligations as specified under clause 3 above by any of the Consortium Members, the Lead Member shall be liable to fulfil such obligation.

5. It is agreed that sharing of responsibilities hereto among the Consortium members shall not in any way be a limitation of responsibility of the Lead Member under these presents.

6. This Consortium Agreement shall be construed and interpreted in accordance with the Laws of _____.

7. It is hereby agreed that the Lead Member shall furnish the Bid Security, as stipulated in the Bidding Documents, on behalf of the Consortium.

8. It is hereby agreed that in case of selection of bidding consortium as the Successful Bidder, the Parties to this Consortium Agreement do hereby agree that the Lead Member shall furnish the Performance Security on behalf of the Consortium, as stipulated in the Bidding Documents.

9. It is further expressly agreed that the Consortium Agreement shall be irrevocable and, for the Successful Bidder, shall remain valid over the term of the Contract, unless expressly agreed to the contrary by the Company.

10. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of

the representations and information submitted by the Consortium Members respectively from time to time in response to the Bidding Documents for the purposes of the Bidding.

11. It is expressly understood and agreed between the Members that the responsibilities and obligations of each of the Members shall be as follows:

    ……..
    ……..

12. It is agreed by the Members that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities and liabilities of the Members, with regards to all matters relating to the execution of the Works as envisaged in the Bidding Documents and the Contract. The Parties shall be jointly and severally liable for execution of the Works in accordance with the terms of the Contract and the Bidding Documents.

13. It is clearly agreed that the Lead Member shall ensure performance under the Contract and if one or more Consortium Members fail to perform its /their respective obligations under the agreement(s), the same shall be deemed to be a default by all the Consortium Members.

14. It is hereby agreed that in case of selection of the Consortium as the Successful Bidder, [the Lead Member shall furnish the Performance Security on behalf of the Consortium as stipulated in the Bidding Documents] / [the Performance Security as stipulated in the Bidding Documents shall be furnished by the Members on behalf of the Consortium in such proportion as may be agreed to between us]

15. It is agreed by all the Members that there shall be separate Consortium Bank Account (distinct from the bank accounts of the individual Members) to which the individual Members shall contribute their share capital and/or working capital and the financial obligations of the Consortium shall be discharged through the said Consortium Bank Account only and also all the payments received by the Consortium from the Employer shall be through that account alone.

16. It is hereby expressly agreed between the Parties to this Consortium Agreement that neither Party shall assign or delegate its rights, duties or obligations under this Agreement except with prior written consent of the Company.

17. We hereby agree to ratify all acts, deeds and things lawfully done by the aforesaid Lead Member pursuant to this Agreement and that all acts, deeds and things done by the aforesaid Lead Member shall and shall always be deemed to have been done by us/Consortium.

This Consortium Agreement

(a) has been duly executed and delivered on behalf of each Party hereto and constitutes the legal, valid, binding and enforceable obligation of each such Party,

(b) sets forth the entire understanding of the Parties hereto with respect to the subject matter hereof including the Consortium/ Bidder's legal persona and there is or are no other agreements relating to the Consortium/ Bidder's incorporation, constitution, powers or organisation which may affect in any way its ability to carry out the Works;

(c) may not be amended or modified except in writing signed by each of the Parties and with prior written consent of the Company.

IN WITNESS WHEREOF, the Parties to the Consortium Agreement have, through their authorized

representatives, executed these presents and affixed common seals of their respective companies on the Day, Month and Year first mentioned above.

Common Seal of ..... has been affixed in my/our presence pursuant to the Board of Director's resolution dated .....

For and on behalf of
Consortium Member (party 1)
M/s……

…….. ……
(Signature) (Signature of authorized representative)
Name: …… Name: ……..
Designation:…….. Designation: ……..
Place: …….
Date: ……

Witness:

1. …….
(Signature)
Name …….
Designation.....…….

2. …….
(Signature)
Name …….
Designation.....…..

Common Seal of ..... has been affixed in my/our presence pursuant to the Board of Director's resolution dated .....

For and on behalf of
Consortium Member (Party 2)
M/s……

…… ……
(Signature) (Signature of authorized representative)
Name: Name:
Designation: Designation:
Place:
Date:

WITNESS

1. …….
(Signature)
Name …….
Designation.....…….

2. …….

(Signature)
Name …….
Designation.....……..

Attested:

…….
(Signature)
(Notary Public)

Place: …….
Date: …….

Common Seal of ..... has been affixed in my/our presence pursuant to the Board of Director's resolution dated .....

For and on behalf of
Consortium Member (Party 3)
M/s…….

……. (Signature)

Name:
Designation:
Place:
Date:

……. (Signature of authorized representative)

Name:
Designation:

WITNESS

1. …….
(Signature)
Name …….

Designation.....……..

2. …….
(Signature)

Name…….

Designation.....……..

Attested:

…….
(Signature)
(Notary Public)

Place: …….
Date: …….

Annexure-8: Affidavit

(To be given on Stamp Paper of Rs. 500 and duly Notarised)

I, ……. S/o ……..……., resident of …… …… the ……...(insert designation) of the ……..(insert name of the Bidder), do solemnly affirm and state as follows :

1. I say that I am the authorised signatory of ……..(insert name of company/Bidder) (hereinafter referred to as "Bidder") and I am duly authorised by the Board of Directors of the Bidder to swear and depose this Affidavit on behalf of the Bidder.

2. I say that I have submitted information with respect to our eligibility for Maharashtra Metro Rail Corporations' (hereinafter referred to as "Maha-Metro") Tender Document for "**_____.**" and I further state that all the said information submitted by us is accurate, true and correct and is based on our records available with us.

3. I say that, we hereby also authorize and request any bank, authority, person or firm to furnish any information, which may be requested by Maha-Metro to verify our credentials/ information provided by us under this Bid and as may be deemed necessary by Maha-Metro.

4. I say that if any point of time including the License period, in case Maha-Metro requests any further/ additional information regarding our financial and/or technical capabilities, or any other relevant information, we shall promptly and immediately make available such information accurately and correctly to the satisfaction of Maha-Metro within time stipulated by them.

5. I say that we do hereby undertake that as on date of Tender submission that neither Maha-Metro/MOUD/Maharashtra Govt. has banned business with the Bidder (any member in case of JV) nor any Central/State Government Department/PSU/Other Government entity or local body have banned business with the Bidder (any member in case of JV) which is applicable to all ministries (approved by the Committee of Economic Secretaries, Ministry of Commerce)"

6. I say that, we fully acknowledge and understand that furnishing of any false or misleading information by us in our Tender Document shall entitle us to be disqualified from the Tendering process for the said project. The costs and risks for such disqualification shall be entirely borne by us.

7. I state that all the terms and conditions of the Tender Document have been duly complied with.

8. I/We undertake that in the last 3 (three) years, I/we have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement against the Bidder, nor has been expelled from any project or contract by any public entity nor have had any contract terminated by any public entity for breach by such Bidder.

9. I/We undertake that we have not been in a situation in which a criminal complaint has been lodged and the charges are upheld by the Court of Law.

10. We do hereby undertake & confirm that Maha-Metro/ any other Metro Organisation (100% owned by Govt.), Ministry of Housing and Urban Affairs / Order of Ministry of Commerce, applicable for all Ministries have not banned/debarred business with us as on the date of tender submission. Also any work executed by us either individually or as member in a JV/Consortium, has not been rescinded/terminated by Maha-Metro after award of contract to us during the last 3 years (from the last day of the previous month of tender submission) due to our non-performance either on our own or as a member of a JV/Consortium.

    In case at a later date the undertaking is found to be false or incorrect, Maha-Metro shall have the right to cancel the allotment/license and forfeit all payments made by the Licensee including the interest free security deposit after adjustment of all dues payable by the licensee.

DEPONENT

VERIFICATION:-

I, the above-named deponent, do verify that the contents of paragraphs 1 to 7 of this affidavit are true and correct to my knowledge. No part of it is false and nothing material has been concealed.

Verified at ……, on this ……. day of…….……., 2022.

DEPONENT

Annexure-9

Undertaking for Responsibility

(On appropriate value stamp paper duly notarized)

_____ as a lead member of the consortium ofcompanies - namely

_____ (Complete name with address) jointly & severely undertake the responsibility in regards to the License Agreement with Maha-Metro in respect of Licensing of .....:-

1. That, we solely undertake that_____(Name of the Company/ consortium member) shall conduct all transactions/ correspondences and any other activity in connection with License Agreement pertaining to _____with Maha-Metro.

2. That, all Consortium members are jointly or severely responsible for all commitments / liabilities/ dues etc to Maha-Metro.

3. That, we further confirm that, the stake holding of lead member-___ (Name of the company/ consortium member) shall always remain more than 51% and we, all consortium members ensure that there shall be no change in the stake holding of the members of the Consortium during the tenure of License Agreement.

4. We also confirm that our consortium was made on Dt. ___, for seeking licensing rights of _____and in support of which a copy of our Board Resolution is attached with this Undertaking.

(Authorised/ CEO of all __consortium members to sign on undertaking with witness signatures)

1._____

2. _____

3. _____

4. _____

5. _____

6. _____

Witness 1.

2.

Annexure-10: DRAFT LICENSE AGREEMENT

(License Agreement No.....)

THIS AGREEMENT entered into at Pune/ Maharashtra on this the_____day of _____**20** ,

BETWEEN

Maharashtra Metro Rail Corporation Limited (Maha-Metro) incorporated under the companies act, 1956 having its registered office at "1261, Metro Bhavan, Opp. Dikshabhumi, Near Ambedkar College, Nagpur, Maharashtra-440010" and Project Office addressed as Pune Metro Rail Project, "The Orion Building, 1st Floor, 101, Opp. Don Bosco Youth Centre, Koregaon Park, Pune-411001", (hereinafter referred to as the **'Licensor'** or **"Maha-Metro"** which expression shall unless repugnant to the context mean and include it's successors and assigns) of the **First Party**

AND

M/s , a Company incorporated under the provisions of [Companies Act,1956/, 2013] having its Registered office at ----------, (hereinafter referred to as the **'Licensee'** through its duly authorised signatory which expression shall unless repugnant to the context or meaning thereof include the successors and assigns) of the **Second Party**

WHEREAS

a) Maha-Metro is engaged in the business of constructing, operating & maintaining Mass Rapid Transport Network in Pune. Maha-Metro, with a view to augment its non-operating revenue, had invited Bids (E- Tender) from the eligible parties for Placement and Operation of Telecommunication Equipment for In-building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) (**"Permitted Activity"**) in the premises, tunnel and underground Station(s) Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP) (hereinafter referred to as **"Licensed Premises"**)

b) Pursuant to evaluation of the bids received, Maha-Metro has accepted the bid of M/s .....for Schedule…… and has issued M/s a Letter of Acceptance bearing

c) No. dated ('LOA'), requiring inter alia, the execution of this License Agreement.

d) The Licensee shall perform the obligations and exercise the rights under the Letter of Acceptance (LOA), including the obligations to enter into the License Agreement, pursuant to the LOA for undertaking the License.

e) Based on Terms and Conditions of RFP/Bid Document and after due inspection and verification of the building and Licensed Premises and understanding all the Terms and Conditions of this Agreement and other documents relating to the competency and all other relevant records, the Licensee is satisfied in all respects with regards to the right and authority of the Licensor to enter into this Agreement.

f) Accordingly, Maha-Metro has agreed to provide to the Licensee the Licensed Premises for undertaking the above-mentioned Project and, on /as per the terms and conditions contained in this License Agreement.

g) The Licensee has represented that they have obtained requisite permissions and authority as per applicable law to undertake the above Project at the Licensed Premises. The Licensee shall design, procure, manufacture, fabricate, install, commission, manage, operate and maintain the Licensed Premises by placement and operation of telecom equipment for IBS for providing shared Mobile Coverage as specified in this Agreement at its own cost. All the locations and designs proposed by the Licensee are subject to approval by Maha-Metro with regard to operational feasibility, aesthetics, and safety & security concerns.

h) Maha-Metro has accordingly agreed to provide the Licensed Premises on license basis to the Licensee for carrying out the above-mentioned Project on the terms and conditions contained in this Agreement. Each individually shall be known as a "**Party**" hereto, and collectively the "**Parties**".

NOW THEREFORE THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

A. The following documents shall be deemed to form part and be read and construed as part of this agreement, namely:

I. Letter of Acceptance issued vide No. ..... dated.....

II. Bid Document, its Addendums & Corrigendum.

III. Any other document forming part of the Bidding Process.

B. The Licensee hereby covenants as follows: -

I. Licensee hereby assumes responsibility for placement and operation of Telecommunication equipment for In Building Solution (IBS) for providing shared mobile coverage (2G/3G/4G/5G)-permitted activity at Maha-Metro stations as detailed at Annexure-10.1. The Licensee shall design, procure, manufacture, fabricate, install, commission, manage, operate and maintain the IBS-Telecommunication equipment inside stations as specified in this Agreement at their own cost. All the locations and designs/plans proposed by the Licensee are subject to approval by Maha-Metro with regard to operational feasibility, aesthetics and safety & security concerns.

II. Licensee irrevocably agrees to make all payments including License Fee as per this Agreement as and when due, without delay or demur and without waiting for any formal advice from Maha-Metro in this regard.

III. The Licensee confirms having examined the potential locations at Selected Metro Stations in detail and fully understands and comprehends the technical requirements of the spaces for placement and operation of the telecom equipment for IBS for providing shared mobile coverage. The Licensee also confirms full satisfaction as to the business viability of licensing the premises at the Metro Stations and hereby voluntarily and unequivocally agrees not to seek any claim, damages, compensation or any other consideration, whatsoever on this account. Licensee also confirms having made independent

assessment of present and future market potential and no future claim whatsoever regarding change in market circumstances shall be used by it as an alibi or excuse for non-payment of License Fee and other amounts due to Maha-Metro under this License Agreement.

IV. Licensee shall also adhere to-

a) Procedure of Maha-Metro regarding release of electric supply and specification of materials to be used for electric supply, Air-conditioning work, Fire Protection System, Fire NOC as detailed at Annexure- 10.6.
b) Fire retardant Material for renovation/ refurbish of premises as per Specification at Annexure-10.4

V. That Maha-Metro and LICENSEE represent and warrant that they are empowered, authorized and able to enter into this agreement.

….-…..

(……) FOR
AND ON BEHALF OF
MAHARASHTRA METRO RAIL
CORPORATION LTD.

….-…..

Authorized Signatory.

FOR AND ON BEHALF OF LICENSEE
M/s……

IN WITNESS WHEREOF the LICENSEE and the Maha-Metro have set their hands hereunto on the day, month and year first written above in the presence of the following witnesses:

---------- ----------

Maha-
Metro

LICENSEE

1. Definitions-

1.1. "**Agreement**" means this License Agreement executed between Maha-Metro and Selected Bidder and includes the LOA, Bid Document, any amendments, annexures and any other document forming part of the Bidding Process hereto made in accordance with the provisions hereof.

1.2. "**Applicable Laws**" means all laws, brought into force and effect by Govt. of India, State Governments, local bodies and statutory agencies and rules / regulations / notifications issued by them from time to time and applicable to this License Agreement. It also includes judgments, decrees, injunctions, writs and orders of any court or judicial authority as may be in force and effected from time to time.

1.3. "**Applicable Permits**" means all clearances, permits, authorizations, consents and approvals required to be obtained or maintained under Applicable Laws, in connection with the Permitted Activity and the Licensed Premises during the subsistence of this Agreement.

1.4. "**Bid**" means the documents in their entirety comprised in the bid, including all clarifications, addenda and revisions issued by Maha-Metro to the Bidders, the Bid submitted by the successful Bidder (Licensee) in response to the Tender Notice in accordance with the provisions thereof. The words "Bid" and "Tender" are used synonymously.

1.5. "**Bid Security**" means the refundable amount to be submitted by the Bidder along with RFP documents to Maha-Metro

1.6. "**Commencement Date**" means the date of Commencement of License Fee.

1.7. "**Damages**" shall mean any claim of Maha-Metro against the Licensee for breach of this Agreement, including but not limited to, losses, dues, arrears etc. against which Maha-Metro shall be entitled to claim and adjust the Performance Security.

1.8. "**Maha-Metro**" means Maharashtra Metro Rail Corporation (Maha-Metro) Limited.

1.9. "**Fit-out Period**" or "**Fitment Period**" means the period starting from the date of handing over of the Licensed Premises for carrying out fit out activities in order to operationalize the Licensed Spaces.

1.10. "**Interest Free Security Deposit/Performance Security**" means interest free amount/BG to be deposited by the Licensee with Maha-Metro as per terms and conditions of License Agreement as a guarantee against the performance of the License Agreement.

1.11. "**License**" means the grant of License by Maha-Metro to the Licensee to utilize the Licensed Premises under terms and conditions of this Bid Document.

1.12. "**Licensee**" means the Selected Bidder, who has executed the License Agreement with Maha-Metro pursuant to the conclusion of the bidding process.

1.13. "**License Fee**" means the amount payable by the Licensee to Maha-Metro against licensing of space as per terms and conditions of the License Agreement along with other payable charges and any kind of Central or State Taxes, local levies,

statutory dues, etc. as per prevalent law.

1.14. **"License Period"** means a period of nine (9) years starting from the date of commencement of License Fee as specified in Bid Document.

2. Objective and Scope:

2.1 Objectives of Bid Document:

a). Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s): **Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)** as per terms and conditions of this Bid Document.

b). To provide seamless/uninterrupted mobile coverage (2G/3G/4G/5G) in selected tunnel and underground station/section of Maha-Metro.

c). To augment non-operational revenue of Maha-Metro through Licensing of Space.

2.2 Scope:

a). The Selected Bidder(s), shall be licensed with spaces, for Placement and Operation of Telecommunication Equipment for In-building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in tunnel section(s) and underground station(s): **Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)** as per terms and conditions of this Bid Document, hereinafter referred to as **"Permitted Activity"**, subject to the terms and conditions specified in the Bid Document/Draft License Agreement and the guidelines stipulated herein in relation to the Permitted Activity

b). The intention is to provide mobile services of various operators for commuters' facilitation. No other services which are beyond the scope of this tender like Wi-Fi etc. shall be permitted.

c). The IBS as a concept shall be offered by a single infrastructure provider whereby with a single common infrastructure all existing and upcoming mobile operators can serve their customers in an easy and efficient manner. The said entity shall offer shared In-Building Solutions for various types of telecom operators such as GSM/CDMA Technologies.

d). The Selected Bidder shall be required to set up and manage the common shared IBS at the Licensed Premises. The Selected Bidder shall in turn provide the services of IBS to various telecom operators and other agencies that require the same in tunnel and underground station of the section by charging them appropriate license fee. The Selected Bidder in turn shall pay monthly License Fee and other charges along with applicable taxes, quarterly in advance, to Maha-Metro.

e). The Licensee has the option to appoint maximum three (3) telecom operators to carry out the Permitted Activity within the Licensed Premises. The Licensee shall ensure that any agreement or understanding executed between the Licensee and other telecom operators shall strictly adhere to compliances of License Agreement executed between Maha-Metro and Licensee.

f). The IBS provided by Selected Bidder shall:

i. Include all cellular standards such as GSM, CDMA, W-CDMA, and LTE/VOLTE. etc.

ii. The IBS coverage shall be provided through distributed antenna system and it shall be left to the Selected Bidder to decide on the technology solution fitted best to meet the coverage criteria keeping in view of the building profile and ground realities for mobile operators considering the commercial outflow to be paid by the mobile operators.

iii. The License Fee of Space quoted by Bidder, as per RFP, shall be for 2G/3G/4G/5G only during the tenure of License Agreement. In case of any technological upgradation beyond 5G, since there is uncertainty, the License Fee of Space shall be enhanced on mutually agreed terms and conditions. In event of failure of finalisation of mutually agreed License Fee of Space, the License Agreement shall be terminated by Maha-Metro as per terms and conditions of License Agreement.

iv. No repeater equipment shall generally be installed in tunnels. Nevertheless, if it is unavoidable then repeaters can be allowed adhering to the schedule of dimensions. Power for the same has to be extended by the Licensee from licensed room. Any co-axial cable, power cable etc. has to meet the FRLSZH (Fire Retardant Low Smoke Zero Halogen) criteria for underground environment and has to be provided by the licensee along with associated equipment for receiving signals of mobile service providers. In this regard, certificates and test reports of the manufacturer are to be submitted to Maha-Metro. Further, Licensee can use 2 locations at concourse and 1 at each platform to use active components. The installation has to be inside the false ceiling and aesthetics is to be maintained. Location of such installation is to be approved by Maha-Metro. Use of this active equipment is limited to the scope of this Agreement and they cannot be used for any other purpose such as Wi- Fi, etc.

g) Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavour to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile Service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier.

Further, the agreement between Licensee and the operators shall cease in case of termination of License Agreement entered between Licensee and Maha-Metro. In case licensee fails to comply to the provision of tie ups with three (3) mobile operators as described above, Maha-Metro reserves the right to ask

individual/group of mobile operators to propagate their signals in licensed premises over the same infrastructure provided by the Licensee.

h). Some of the stations of the licensed sections may be under management of Maha-Metro Project Wing as these stations are under construction. The access to such section/station and the rooms shall be provided to Licensee at least thirty (30) days before Revenue Operation Date ("ROD") of these stations. Maha-Metro shall issue a Possession Letter for taking over the possession of location within ten days of the issuance of Letter of Possession. The ROD provided is tentative as it depends on sanction of section by CMRS. The final ROD shall be decided only after clearance by CMRS.

i). Licensee has to install all necessary cables (of FRLSZH type only), LCX & OFC in tunnel, cables and fixing of antenna in station and associated equipment for amplification of the signals in all areas of the underground stations and the approach ramp of the tunnel at its own cost, so as to provide seamless connectivity to the commuters travelling in the tunnels and underground station(s) of the Section. Cable trays and cable hangers for this purpose will be provided by Maha-Metro against payment of one time capital cost and monthly fee. In case of separate cabling for CDMA and GSM network, the charges for the clamps shall be applicable for 2 cables. Licensee shall at their own cost and risk prepare/install cable tray and clamps etc. after obtaining Maha-Metro approval where such provision is not available. No claim or compensation on this account shall be entertained. General specification of the cables shall be as per Annexure-10.5. In addition 4 (four) random samples from each type of cables are required to be tested for conformance of the specifications related to fire and smoke in Govt. lab and cost of such testing to be borne by the Licensee. Oversheath of the LCX cable shall be an extruded layer of anti-corrosion, reduced flame propagation, low smoke zero halogen compound complying with the fire performance requirement as per Annexure-10.5 Factory Acceptance Test (FAT) report of the cables to be submitted to Maha-Metro for review of the above parameters.

j). The Licensee is permitted to take fibre from out-side station to GSM/CDMA room at their own cost and meeting the requirement of cable specifications for Underground Section. The fibre cable is to be used solely for carrying traffic for mobile coverage of Maha-Metro. No other data of whatever type shall be permitted on this fibre cable.

k). The Licensed Space shall be utilised only by the Licensee or his associates/permitted operators as per Terms and Conditions of RFP/Bid Document (Draft License Agreement at Annexure- 10). In this regard, the Licensee shall obtain prior written permission for operators to operate at a particular site from Maha-Metro. If at any stage during License Period, it is found that the total operator at any location is more than permissible limit, license fee shall be charged at double the rate of license fee applicable for single operator at that location on pro-rata basis from the date of handing over of the location and all utility services shall remain disconnected till the extra operators vacate the Licensed Premises.

l). The sites shall exclusively belong to the Maha-Metro, without creating any right, title or interest of whatsoever nature in the said Licensed Premises in favour of the Licensee.

m). Licensee shall ensure regular interaction and provide all necessary logistic support to the mobile operators so that they can provide un-interrupted mobile coverage

in all underground areas.

n). The Licensee shall ensure compliance with permissible radiation limits for mobile towers/antennas as laid down by Municipal Corporation / State Government / Department of Telecommunications, etc. from time to time. The service provider/integrator should confirm to smooth voice communication in the vicinity of towers. A joint checking of the coverage with representative of the licensee, PD, S&T and operations shall be conducted half-yearly and in case of any shortfall, a token penalty of Rs. 5,000/- will be levied on the Licensee.

o). The Selected Bidder shall be responsible for obtaining necessary permissions from Department of Telecommunications (DoT) and comply with all the guidelines issued by DoT from time to time and applicable law for undertaking the Permitted Activity in the Licensed Premises. Any law/instruction issued by Local Authority, in this regard, shall also be adhered to.

p). The Selected Bidder shall first utilize the telecommunication infrastructure of Maha-Metro on commercial terms wherever technically feasible before considering alternate facilities.

q). Deleted

r). Licensee shall interface with Civil/Electrical/Signal & Telecom etc during execution of work. Licensee shall also attend progress review meeting held at site offices on regular basis.

s). After completion of work as built drawings shall be submitted to Maha-Metro.

2.3 Licensee shall be responsible for the following activities:

a) The Licensee shall ensure that passengers using metro train services will get uninterrupted mobile coverage without any interruption in underground section as described in Scope of this document. It requires that the Radio system shall have an overall availability of better than 99.95%. The signal level should be such that the uplink and down link audio quality level under such conditions should be good. The minimum signal level which is sufficient for successful radio calls must be available in all coverage areas including inside the moving (50 kmph) train compartment. It shall be available in 95% of total area and in worst case not more than 50 meter of continuous stretch in stations and in tunnel/train should be without coverage. The signal levels mentioned herewith are the worst case Down Link signal levels after taking into account all losses such as propagation losses, feeder losses, body loss, fading, train penetration losses, multiple floor / wall penetration losses, climatic losses, etc.

b) The Licensee shall be licensed with space for Placement and Operation of Telecommunication Equipment for Providing Mobile (Cellular) Network (2G/3G/4G/5G). For the purpose of placement of equipment, the Licensee shall submit the design/ layout of the location of placement of equipment along with other relevant details. Maha-Metro shall consider the plan with respect to aesthetics, operational feasibility, and safety &security concerns. If the whole plan or a part of plan is not approved by MAHA-METRO, Licensee is required to submit revised plan for approval. All further modification/ revision in plan(s)are required to be approved by Maha-Metro.

c) Designing of all units / structures to complement station architecture/design for installation of telecommunication equipment.

d) Procurement, fabrication, installation & erection of equipment. The equipment inventory shall be within the Licensed Premises only. Licensee shall prepare the plan for approval from Maha-Metro.

e) Appoint competent nodal officer to interact with nodal Maha-Metro representative to bring clarity in understanding of spaces, coordinate and implement decisions taken.

f) Operate, manage and maintain the entire Licensed Premises.

g) Obtain all approvals, permits, etc from all competent and required authorities, including different tiers of government, statutory, local, civic authorities, DoT etc. at its own cost.

h) Comply with all statutory requirements in connection with License Agreement.

i) Ensure regular and timely payments of all amounts due to Maha-Metro and discharge all obligations as per License Agreement.

j) Payment of all statutory taxes, local levies, statutory dues, etc (except property tax which shall be borne by Maha-Metro) as and when dueshall be on licensee account.

k) GST and surcharge thereon, as applicable from time to time, shall be paid by the Licensee.

l) Licensee shall also adhere to procedure of Maha-Metro regarding release of electric supply and specification of materials to be used for use of electric supply, Air-conditioning work, Fire Protection System, Fire NOC as detailed at Annexure-10.6 and Material Specification for renovation/ refurbish of premises as per Annexure-10.

3. Disclaimer

3.1. The Licensee acknowledges that prior to execution of this Agreement, it has extensively studied and analysed and satisfied itself about all the requirement of this License Agreement including but not limited to market and market conditions.

3.2. The Licensee acknowledges that prior to execution of this Agreement, it has carefully assessed business prospects from providing and enhancing mobile (cellular) signals and that it will be fully responsible for all its assessment in this regard.

3.3. The Licensee confirms having seen / visited / assessed the identified locations of the Metro Stations and fully understands and comprehends the technical, financial, commercial and investment requirements.

3.4. The Licensee also confirms that it has fully analysed to its fullest satisfaction, business viability of the License and hereby voluntarily and unequivocally agrees not to seek any claim, damages, compensation or any other consideration,

whatsoever on this account.

4. Licensed Premises:

4.1. Maha-Metro hereby agrees to provide a part of its premises on license basis to the Licensee solely for Placement and Operation of Telecommunication Equipment for In-building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section(s) and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

4.2. The Licensed Premises will be provided in enclosed room (GSM/CDMA room) of 10 Sqm approx. at each station.

5. Tenure of License Agreement:

5.1. The License shall be for a period of nine (9) years, subject to lock-in period of 2 (two) years, from the commencement of license fee. Tenure of the license period of the locations handed over subsequently shall be co-terminus with above period irrespective of date of actual handing over. Based on the first 9 (nine) years performance, extension may be granted for another period of 3 (three) years but only on mutually agreed terms and conditions. Maha-Metro reserves the right to not grant such extensions without assigning any reason whatsoever. The licensee voluntarily and unequivocally agrees not to seek any claim, compensation, damages or any other consideration in case such extension is not granted.

5.2. **Commencement Date**: Tenure of License agreement shall commence from date of commencement of license fee.

5.3. **Fitment Period:** Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided.

6. License Fee:

6.1. The Licensee shall pay to Maha-Metro for Five (5) stations as per LOA and Agreement, quarterly in advance, all payments requested as per details and rates indicated in the table below-

S. No.	Item	Rate
A. **Monthly Recurring Charges:** Prevailing charges shall be increased @ 10% per annum on compounding basis after completion of every year of License Period		
1.	License Fee for Space (License Fee for space per station in GSM/CDMA room [approx. 10 sqm in area] at each metro station as per Annexure-1) [In case, if handed over space is more than 15% (1.15 times) of 10 sqm, then license Fee will be increased on pro rata basis]	Rs.----------per station/ month (Accepted rates of Selected Bidder) + GST

2	License Fee of additional space for utilities/microwave tower (Will be charged for minimum 1 sqm area)	On pro rata basis as per S/N 1 above. Rate per sqm/month shall be derived by dividing 'Rate quoted by the licensee per station/month by 10 sqm area at S/N 1
3.	License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater	Rs. 16,106/- per station/month + GST
4.	Maintenance charges for Space including Supervision Charges for tunnel entry. (Entry in tunnel will be restricted to availability of power block in the section.)	Rs. 5,962/- per month/station + GST
B	**Variable Charges: Third Party Dependent (MSEDCL Power)**	
5	Electrical Installation Charges including substation lease rent.	As per Annexure-10.5
6	Air-Conditioning Charges (Considering 1 number of FCU working and 1 FCU standby.)	{[Total TR installed in GSM/CDMA room X 0.75 (Working TR) X 1.494] KVA X 24 hrs X (Number of Days in particular month) X (Unit charges as per concerned DISCOM)}
7	Air-Conditioning Maintenance Charges i.e. Operation and Maintenance charges for high end installations at stations (monthly basis)	20% of Air-Conditioning Charges (as calculated in S.No. 6 above)
8	Energy consumption charges Energy consumption as per installed Energy Meter)	As per Annexure 10.5 and 10.6
C	**One Time Lump-Sum Charges: Non- Refundable**	
9	One-time fixed charges for installation of FCU with all associated item	Rs 1,13,937/- per TR + GST
10	Clamp of LCX cable in Tunnels	Rs 472/- per running meter excluding taxes & duties + GST
D	**Deposits:**	
11	Refundable Electrical Consumption Deposit (Interest Free)	Rs.5,000/-per KVA per station
12	Interest Free Security Deposit/ Performance Security	Equivalent to 12 months License Fee (License Fee shall be the sum of Items at Sr No 01 to 04 under the head "A: Monthly Recurring Charges" of this table) applicable for final year of License agreement for

		Licensed premises.
E	**Dark Fiber Between Stations**	As per Maha-Metro Rates applicable from time to time

6.2 Commencement of License Fee: License Fee shall commence immediately from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period.

6.3 The License Fee of Space, License Fee of Additional Space for utilities/microwave tower, License Fee for Spaces on Cable Trays & for Indoor Antennas/Repeater and Maintenance Charges for Space including Supervision Charges for tunnel entry shall be increased by 10% per annum on a compounding basis after completion of every 1 (one) year of License Period.

7. Payment Terms:

7.1. The License Fee and other dues shall be payable quarterly in advance to Maha-Metro, by the last working day of previous running quarter. However, the first quarterly License Fee shall be payable within 07 days of commencement of license fee.

7.2. The Licensee voluntarily and unequivocally agrees to make all payments to Maha-Metro as may be due before the due date, without waiting for any formal advice from Maha-Metro.

7.3. The reconciliation of License Fee and other dues shall be carried out annually. Based on reconciliation, the adjustment of License Fee payable to Maha-Metro shall be carried out along with payment of next quarter's License Fee.

7.4. The payment of dues should preferably be made/credited by RTGS/NEFT/ECS mode to Maha-Metro after obtaining prior approval of Maha-Metro and complying with the laid down procedure. The details for Maha-Metro's account for e-payment shall be provided separately. Licensee may submit the dues in the form of Demand Draft/ Cheque in favour of "Maharashtra Metro Rail Corporation (Maha-Metro) Limited" payable at Pune.

7.5. Non-payment of License Fee and other dues.

a) Non-payment of License Fee and other dues within the prescribed date shall constitute Material Breach of Contract and Licensee's Event of Default under this Agreement and shall entitle Maha-Metro to terminate the License Agreement as per provisions stipulated in this Agreement. Besides, the Licensee shall pay an interest of 18 percent per annum on the amounts of License Fee and other dues payable remaining outstanding after the due date and falling in arrears. Interest shall continue to accrue on compounding on monthly rolling basis until the License Fee and other dues are finally paid. Such interest shall be charged on outstanding dues for the actual days (s) of delay in payment of dues.

b) Licensee shall periodically advise the details of payments made to Maha-Metro. In the case of non-submission of such details, initially Third-party dues i.e. statutory dues / liabilities shall be settled (mandatory liabilities of Maha-Metro), then others dues / liabilities like electricity, OMC etc, and lastly License Fee shall be accounted for.

c) In case payment is not made by due date, a 15 day Cure Notice to cure the Licensee's Event of Default shall be issued. In the event of Licensee failing to cure the Default, Maha-Metro shall be entitled to terminate the License with 30 day Termination Notice and shall be free to forfeit Interest Free Security Deposit/Performance Security after adjustment of all dues what so ever and take such other action available to it under this Agreement and as per Law. The utilities being provided to the Licensee may be disconnected after 15 days of the Termination Notice if the Licensee fails to deposit the outstanding dues.

i. Any representation or any request by the Licensee in this regard shall only be entertained if the Licensee deposits 100% dues as per issue / demand within 15 days of issue of Licensee's Event of Default Notice, along with a written request in the matter. The utility services including electric supply to the Licensed Premises shall be discontinued on the 16th day of issuance of 30 days Termination Notice.

ii. The Licensee shall vacate the Licensed Premises within 30 days of termination of this Agreement. A certificate from concerned Station Manager or its authorized representative in proof of Licensee having vacated the Licensed Premises will be required to be submitted by the Licensee. Any claim of vacation / non-vacation without the endorsement of Station Managers or its authorized representative shall not be entertained.

iii. Interest Free Security Deposit/Performance Security shall be forfeited on termination of contract due to Licensee's Event of Default after adjustment of all the dues whatsoever. Balance outstanding dues, if remaining after adjustment of outstanding dues from Interest Free Security Deposit / Performance Security, shall be recovered from the Licensee.

7.6. In no case, payments shall be allowed to remain outstanding for a period of more than 60 days. If at any stage, the dues remain outstanding for the period of more than 60 days, this Agreement shall stand automatically terminated without giving any notice to the Licensee and Interest Free Security Deposit/Performance Security/ shall stand forfeited to Maha-Metro.

7.7. In case of non-vacation of Licensed Premises within stipulated period after termination on account of non-payment of License Fee and other dues, the Licensee voluntarily agrees to permit the Licensor to disconnect all utility services including electric supply to the Licensed Premises and to seal the Licensed Premises. The Licensee agrees voluntarily and also undertakes not to seek any claim, compensation or any other consideration whatsoever, which may arise due to such disconnection and sealing by the Licensor.

8. Performance Security: Selected Bidder shall pay and submit to Maha-Metro Performance Security equivalent to 12 (twelve) Months License Fee applicable for final year of license agreement for Licensed Premises as per Annexure-10.1 of Draft License Agreement LA.

8.1. The selected bidder shall submit Performance Security in the form of Bank Guarantee from a Scheduled Commercial Bank based in India in favour of "Maharashtra Metro Rail Corporation Limited within 30 days of issue of LOA.

8.2. This Irrevocable Bank Guarantee shall be in the prescribed format (Annexure-10.2) issued from a Scheduled Commercial Bank based in India in favour of "Maharashtra Metro Rail Corporation Limited. The Bank Guarantee shall be valid at least for Six nine (9) years and shall be renewed (if required) on rolling basis before expiry of earlier Bank Guarantee, failing which the previous Bank Guarantee shall be invoked and encashed by Maha-Metro without any prior intimation to the Licensee. For last year of License Period, the Licensee shall submit the Bank Guarantee valid for remaining License Period plus six months and shall renew it, if required, till the final settlement of all accounts failing which the Bank Guarantee of the Licensee shall be invoked and encashed by Maha-Metro without prior intimation to the licensee.

8.3. In case of allotment/handing over of any new/additional location/stations in the same section over and above the locations listed in Annexure-10.1, Performance Security shall be paid/updated at the final year applicable rate of license fee at the for **12 months for the new additional location allotted and handed over.**

8.4. In case of joint venture/Consortium, the Performance Security shall be submitted in the name of the JV/Consortium. However, splitting of the Performance Security (while ensuring the Performance Security is in the name of JV/Consortium) and

its submission by different members of the JV / Consortium for an amount proportionate to their percentage stake in joint venture/Consortium is acceptable.

8.5. Maha-Metro reserves the right for deduction of dues from Licensee's Interest Free Security Deposit / Performance Security for: -

a) Any amount imposed as a fine by Maha-Metro for irregularities committed by the Licensee.

b) Any amount which Maha-Metro becomes liable to the Government/Third party due to any default of the Licensee or any of his director/ employees/ representatives/ servant/ agent, etc.

c) Any payment/ fine made under the order/judgment of any court/consumer forum or law enforcing agency or any person duly empowered in his behalf.

d) Any outstanding payment/ claims of Maha-Metro which remain due after completion of relevant actions as per agreement.

8.6. Once the amount as above is debited, the Licensee shall replenish the Interest Free Security Deposit / Performance Security to the extent the amount is debited within 15 days period, failing which, it shall be treated as Licensee's Event of Default.

9. Taxes and Other Statutory Dues-

9.1. Goods & Service Tax (GST) and surcharge thereon, as applicable from time to time, shall be paid by the Licensee along with License fee and other dues. The present rate of GST 18% which is subject to revision from time to time.

9.2. The property tax on the property of Maha-Metro, if applicable shall be borne by MAHA-METRO.

9.3. All other statutory taxes, statutory dues, local levies, as applicable shall be charged extra and will have to be remitted along with the License Fee for onward remittance to the Government. The Licensee shall indemnify MAHA-METRO from any claims that may arise from the statutory authorities in connection with this License.

9.4. Payment of stamp duty on agreement, if any, to be executed in pursuance of this agreement shall be borne by Licensee.

9.5. The Licensee shall get it's all assets insured for the said Licensed Premises and shall bear all the charges for such property insurance. The Licensee shall also get insured third party damages for the said licensed premises throughout the License Period.

10. Stages of activity

Sr. No.	Stage of Activity	Time Period
1	Submission of Interest Free Security Deposit (IFSD) / Performance Security (PS/PBG) to Maha-Metro by the Selected Bidder	100% of IFSD/PS/PBG can be submitted in the form of Bank Guarantee (BG) within 30 days of issuance of LOA .
2	Handing over of stations to Selected Bidder	Within 10 days after deposition of due payments by the bidder in accordance with LOA License.
3	Duration of License Period	09 years from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period subject to Lock-in period of 2 years
4	Signing of License Agreement	Within 30 days after handing over of the first locations
5	Commencement of License Fee	License Fee shall commence immediately from the date of signing of License Agreement or handover of first station whichever is later, inclusive of applicable fitment period.
6	Payment of First Quarterly License Fee/Advance License Fee by Licensee to Maha-Metro	Within 07 days of commencement of license fee.
7	One time Lump-Sum Charges: Non-Refundable	One time Lump-Sum charges for the handed over Stations and section shall be paid along with the License Fee in a single installment.

11. Regulations for Preparation and Utilisation of Licensed Premises:

11.1. **'As is where is basis'**: The Licensee shall be provided with license for the said Licensed Premises, equipment, installations, fittings and fixtures on 'as is where is basis' and the Licensee shall not make any additions or alterations in the Licensed Space, installations including electric installations and wiring without the prior permission of Maha-Metro in writing and when permitted by the Maha-Metro the said additions and alterations shall be carried out by the Licensee at their own cost and they shall not be entitled to any compensation for any additions carried out by them in the Licensed Premises and the same shall vest in Maha-Metro. The Licensee shall install its own fixtures and equipment in the said Licensed Premises after duly obtaining all necessary approvals from the Licensor, permissions and licenses from the Municipal Corporation, DOT and such other Statutory Authorities at its own

cost and expense.

11.2. The agency engaged in installation of IBS must have experience of one year in managing In- Building Solutions (IBS) for providing shared Mobile coverage solutions for various types of telecom operators like GSM/CDMA/Wi-Fi/VoLTE in public areas.

11.3. The Licensee shall submit Layout plan of space showing placement of equipment/tower/mast for approval of Maha-Metro before installation of equipment at the Licensed Space.

11.4. **Approval of Plan**: All the sites proposed by the Licensee in the plan shall be subject to approval by Maha-Metro with regard to

a) Structural stability,
b) operational feasibility,
c) aesthetics,
d) Safety & security concerns.

11.5. If the plan does not conform to the requirement of this Agreement, Maha-Metro may reject the plans / proposals, duly specifying the reason(s) thereof. In such case, Licensee shall resubmit its plan/ proposal after incorporating necessary modification for approval.

11.6. Alterations and Renovations: -

a) The Licensee will be allowed to carry out any alterations or renovations within the said Licensed Premises but without altering or damaging the main/shell structure of the said premises. The Licensee shall need to take prior written approval from Maha-Metro through a written notice prior to commencement of any alteration works and if necessary Maha-Metro reserves the right to ask for and review the renovation plan/drawings before providing consent.

b) The Licensee shall be responsible for the costs of removing debris from the Licensed Premises and will be responsible for all damage to the common areas of the complex like flooring, lift cars etc. during the process of alteration. Any special cleaning or drain clearance necessary as a result of the alteration works and any other costs incurred by Maha-Metro including any extra security costs, which are caused by, or in connection with, the works will also be to the Licensee's account. The occupant will have to bear the cost of the damage plus service charges. However before incurring any such costs the occupants will be briefed on the requirements by Maha-Metro.

11.7. If any approval is required to be taken from any local authority for installation of such telecommunication equipment, the same is the sole responsibility of the Licensee. Licensee shall be responsible to obtain any or all permission and/or clearances from any/all authorities, governmental or otherwise and Maha-Metro shall not be liable or responsible for any of the act or omissions committed on the part of the Licensee.

11.8. In case of any damage to Maha-Metro property during installation, for actual costs whatsoever for restoration to its original position will be recovered from the

Licensee and same will not be challenged in any manner whatsoever. Maha-Metro discretion in this regard shall be final.

11.9. The Licensee shall at their own risk and cost prepare the cable trays and clamps etc. where such provision is not available. No claim or compensation on this account will be entertained by the licensor.

11.10. Licensee shall ensure that Licensee and its employees or other persons involved in the execution of the work does not in any way impinge on the safety and security of metro operations, safety & convenience of commuter, safety of metro properties and its assets. Any physical damage or injury to the commuters or passengers due to lapses on the part of the Licensee shall be the sole responsibility of the Licensee only and Maha-Metro will have no legal obligations or liability towards the injured. In case of serious accident caused due to negligence of the Licensee, resulting in injury, death to commuters or Maha-Metro employees or loss to Maha-Metro property, it shall constitute Material Breach of Contract and considered Licensee's Event of Default that shall entitle Maha-Metro to terminate this Agreement with 30 days written notice.

11.11. Access to stations for the purpose of placement and installation of equipment and its maintenance shall be regulated by the designated office of the Maha-Metro and the Licensee is required to take necessary permissions in this regard from the office as per extant policy of Maha-Metro. It is clarified that the permission to the Licensee shall not be unduly denied.

11.12. Licensee shall ensure that equipment installed does not interfere with the sensitive electronic equipment installed inside the station and tunnel by Maha-Metro including TETRA based train radio system. Initial tests for any interference to be done before start of operation. If any interference is noticed, then the Licensee shall take all necessary steps at his own risk and cost to remove such interference. Failure to do so within a period of 2 (two) working days authorizes the Licensor to take all necessary steps to prevent this interference at the risk and cost of the Licensee. In addition, a penalty of Rs. 5,000/- for each occasion of interference may be imposed by the Licensor. Test reports and any other supportive documentation as may be required/ requested by Maha-Metro, will have to be supplied immediately. A clearance certificate has to be obtained from the signal and telecom department of Maha-Metro to this effect.

11.13. **Solid Waste or waste: -** A separate area may be earmarked within the Licensed Premises for the purpose of storage, which has proper system for extrication pollutants and waste materials. The Licensee shall have to make arrangements for disposal of solid waste, which will be got removed from the Licensed Premises on a daily basis to ensure perfect cleanliness. The Licensee shall have to make arrangements for the solid waste to be separated into glass, plastic and food waste and for the food waste to be treated in a shredder to be converted into a paste. The waste will need to be expelled into a common dump or waste area provided /indicated by Maha-Metro. If solid waste is found disposed-off on Maha-Metro land or Licensed Premises a penalty/fine of Rs.5,000/- will be imposed by Maha-Metro for each occasion.

11.14. The Licensee shall submit details along with contact details of their authorized representative(s) which shall be available at the Metro Station(s), at a short notice, for inspection of spaces including measurement of area, failing which inspection done

by Maha-Metro official(s) shall be final and binding to the Licensee.

11.15. Licensee shall at their own expense and cost employ/engage suitable personnel for providing efficient services in respect of storage and operation of the said products and services in the said Licensed Premises.

11.16. Licensee shall appoint a Manager/ Supervisor whose scope of services shall be as follows;

a) Supervise the operations in the said Licensed Premises.

b) They shall be responsible for cleanliness and hygiene in the said Licensed Premises and to ensure that the services are conducted in a clean, proper and efficient manner.

c) Employ and engage as their own employees, trained, skilled and qualified staff and endeavour to maintain and provide services to full satisfaction and to pay their wages and salaries regularly and promptly.

d) Ensure that fire detection and suppression measures were installed inside the Licensed Premises and kept in good working condition. The Fire Office/authorized personnel of the Licensor shall have unfettered access to the said Licensed Premises, for inspection/checking of fire detection and suppression measures etc. The instructions issued by the Licensor's fire officer shall be obeyed fully without any demur. Any costs associated with carrying out the instructions of the fire officer/authorized personnel of the Licensor shall be borne solely by the Licensee.

e) Licensee should ensure that all electrical wiring, power outlets and gadgets are used and maintained properly, for guarding against short circuits/fires. The Licensee should also ensure that all notified statutory provisions and standards are observed in this regard.

11.17. Maha-Metro's covenants and represents that it has good and marketable title to the said Licensed Premise, free and clear of all liens, claims, mortgages or deeds of trust affecting the Licensee's use of the Licensed Premises, or the rights granted to the Licensee hereunder:

a) Maha-Metro covenants and represents that it has full and complete authority to enter into this License Agreement under all terms, conditions and provisions set forth in the agreement, and so long as the Licensee keeps and substantially performs each and every term, provision and condition contained in this Agreement, the Licensee shall peacefully and quietly enjoy the Licensed Premises without hindrance or disturbance by Maha-Metro or by any other person claiming by, through or under Maha-Metro.

b) That on the Licensee paying the License Fee hereby reserved and observing and performing the several covenants and stipulations on its part and the conditions herein contained shall peacefully hold and enjoy the Licensed Premises throughout the License Period without any interruptions by the Maha-Metro or by any person or persons claiming through under or in trust for him.

c) That the overall control and supervision of the Licensed Premises shall remain vested with Maha-Metro who shall have the right to inspect the whole or part of the Licensed Premises

as and when considered necessary, with respect to its bonafide use and in connection with fulfilment of the other terms and conditions of this Agreement. Maha-Metro also reserves the right to enter the Licensed Premises to repair and replace the fixtures provided by Maha-Metro. If any fixtures or utility relating to operation of the MRTS (Metro) is running through the area licensed, proper protection as advised by Maha-Metro shall be done by License.

11.18. The Licensee voluntarily and unequivocally agrees to provide unfettered and unconditional access to the Licensed Premises for security/fire checks by security/fire officers of the Licensor and also agrees to comply with all directives as may be given from time to time by the security/fire officers of the Licensor. Non-compliance may be treated as Licensee's Event of Default.

11.19. Licensee shall install equipment and its fixtures conforming to international standards of high quality as per guidelines of DoT, TERM, TRAI, etc.

12. Maintenance and Repair of Licensed Premises

12.1. Licensee shall keep and maintain the Licensed Premises in neat, clean condition and in safe & sound manner during all the time of License Period as required by the Maha-Metro O&M administration/ municipal authorities. Any defective, weak or corroded structure be replaced immediately with new proper structure after due certification from reputed agency. In case of any incident / injury caused by equipment or installations due to error / omission attributable on the part of Licensee, the Licensee shall be responsible for all compensation. Ensure that fire detection and suppression measures installed inside the Licensed Premises are kept in good working condition. EMF radiation to be within permissible limits and minimum distance to be maintained from public areas as specified by latest DOT guidelines. In this regard, service provider is to submit self-certification that EMF radiation from antenna are in compliance of base station installations as per the limits prescribed by DOT.

12.2. Licensee shall bear the cost of minor day-to-day repairs and maintenance. All major repairs, attributable to Maha-Metro due to inherent constructional defects in Maha-Metro structure, shall be the responsibility of Maha-Metro. If the major repairs or maintenance required to be carried out by Maha-Metro are not carried out within reasonable time, the Licensee will have the right to get the needful done and deduct the cost thereof from the amount payable to Maha-Metro.

12.3. The Licensee shall carry out all checks and maintenance or repair works with adequate advance notice in such a planned manner that there is minimal disruption of the operations of the Station.

12.4. Licensee shall be at liberty on the termination of this License to remove or take away such fixtures, fittings and electric appliances installed by it upon leaving the Licensed Premises, as far as possible, in the same conditions structurally, reasonable wear and tear and acts of God and nature excepted.

The said Licensed Premises, which have been handed over to the Licensee under this Agreement, shall be kept in good condition and maintained properly by the Licensee at their own cost. If the property is not handed over in good condition as required under this Agreement, Maha-Metro reserves the right to seek exemplary

damages and indemnification.

12.5. Further, Maha-Metro can impose the fine on Licensee up to Rs. 5,000/- per offence per instance on the following offenses:

a) Any staff of Licensee found in drunken condition / indulging in bad conduct.

b) Any staff of the Licensee found creating nuisance on duty

c) Improper maintenance & defacement of the Metro Property.

d) Dishonour of drafts and Cheques given by Licensee in favour of Maha-Metro.

e) Misbehaviour with staff and commuters of Maha-Metro.

f) Not following safety and security norms as may be indicated by authorized representative of Maha-Metro.

12.6. The amount of penalty shall become double the specified amount after six years from the date of commencement of License Agreement.

12.7. The option to impose fine, penalty, etc. under this License Agreement shall be exercised by Maha-Metro official not below the rank of Dy. HOD.

13. Maha-Metro's Infrastructure/ Facilities -

13.1. Electrical Specifications and Procedure for Release of Electric Power Supply-Electrical Specifications

a) Electricity supply will be provided as per terms and conditions indicated in Annexure –10.6. The Licensee shall bear the amount of all the bills/costs for the electricity that may be consumed due to the operation of equipment in the Licensed Space under this Agreement. Licensee shall use energy efficient equipment. Licensee shall follow the I.E. Rules, Acts for safety of equipment, public & Staff.

b) Deleted

c) All fittings/ erections including electrical cabling, calibration and installation of Pre-Paid Energy Meters, electrical MDI/TOD energy meter, etc. are to be installed as per Maha-Metro's specifications.

d) Maha-Metro may provide electricity at the point nearest to the required location on payment of required charges as specified in Annexure-10.6. The Licensee may also undertake electrical works for extension of power from nominated source under Maha-Metro supervision and complying all codal provisions & Maha-Metro specifications. The Licensee shall follow the provisions stipulated in "Rules and Guidelines for Release of Electric Power" (Annexure- 10.6) as amended from time to time.

e) In case of restricted availability of power supply/breakdown, the station power requirements would get first priority and this may result in restriction/restoring of power supply to the Licensee in such situations. In

such situations or any supply disruptions due to strikes of employees, breakdowns of machinery and plant, lockout, failures of incoming supply of Maha-Metro or such causes where the supply of Maha-Metro is affected by a cause or causes over which Maha-Metro has no control, Maha-Metro shall not be liable for any claims for loss, damage or compensation whatsoever, arising out of failure of supply due to any of the afore mentioned causes.

13.2. **Water & Drainage facility**: No water and drainage facility will be provided by the Maha-Metro.

13.3. **Telephone**: Maha-Metro may give permission for installation of cables for telephone/ telecommunication equipment subject to technical feasibility at the cost of licensee.

13.4. **Parking:** The parking facilities provided as part of the Station parking may be used and allcharges, fees and rules will apply as applicable to the general public and the commuters. Thisould be available on first come first serve basis.

13.5. **Encroachment**: The Licensee shall strictly not encroach upon common areas / circulating areas or any other space and restrict its operation to Licensed Space. If any encroachment has been found at any location, the License Fee of such encroached area shall be charged at double the rate of License Fee applicable on that date from the date of previous inspection in which the space was found as per approved plan or date of handing over, whichever is later and shall be charged till a vacation certificate of that encroached area from the concerned Station Manager or its authorized representative is submitted to Maha-Metro or the encroached space is got approved and regularised from the Maha-Metro, whichever is later.

13.6. **Re-Connection Charges**: The Licensee voluntarily agrees to make all payments as may be demanded by the Licensor towards reconnection of utilities including electricity supply which may have been disconnected by the Licensor for whatsoever reasons. The Licensee undertakes not to seek any claim, compensation, consideration or damages due to such disconnection and reconnection.

13.7. **Security Arrangement**: The Licensee shall ensure safety and security of its equipment installed at the Licensed Premises. Maha-Metro in any case will not take any responsibility and claim and compensation of Licensee shall not be entertained in this regard.

13.8. **Services Provided by Maha-Metro**: Reasonable security services for the station building, cleaning, trash removal and washing of the station building premises, adequate lighting in the common areas and exterior lighting outside the station building shall be provided by Maha-Metro. In the event that any one of the services provided for by Maha-Metro may be interrupted or suspended by reason of accident, repair, alterations, strikes, lockout, and except as hereinafter provided, Maha-Metro shall not be liable to the Licensee therefore, provided however that Maha-Metro shall use its best efforts to restore such services as soon as reasonably possible.

14. Force Majeure-

14.1. Neither Maha-Metro nor Licensee shall be liable for any inability to fulfil their commitments and obligations hereunder occasioned in whole or in part by Force Majeure. Any of the following events resulting in material adverse effect, shall constitute force majeure events ("**Force Majeure Events**"):

a) Earthquake, Flood, Inundation, Landslide.

b) Storm, Tempest, Hurricane, Cyclone, Lighting, Thunder or other extreme atmospheric disturbances.

c) Fire caused by reasons not attributable to the Licensee.

d) Acts of terrorism.

e) War, hostilities (Whether war be declared or not), invasion, act of foreign enemy, rebellion, riots, weapon conflict or military action or civil war.

f) Any outbreak of disease qualified as pandemic or endemic;

g) Strikes or boycotts, other than those involving the Licensee, its contractors, or their employees, agents etc., and

The License Fee for the portion affected due to Force Majeure shall be exempted for the affected period on pro-rata basis if the period of Force Majeure persists for more than 7 days.

14.2. Such Force Majeure occurrence shall be notified by the Party which is rendered wholly or partially unable to perform any of its obligations under this Agreement because of a Force Majeure occurrence ("the Affected Party") to the other Party within 7 (seven) days of such occurrence and shall notify the other Party the following in reasonable detail:

a) The nature and extent of the Force Majeure Event;

b) The estimated Force Majeure Period;

c) The nature of and the extent to which, performance of any of its obligations under this Agreement is affected by the Force Majeure Event ;

d) The measures which the Affected Party has taken or proposes to take to alleviate/mitigate the impact of the Force Majeure Event and to resume performance of such of its obligations affected thereby ; and

e) Any other relevant information concerning the Force Majeure Event, and /or the rights and obligations of the Parties under this Agreement.

14.3. If such Force Majeure continues for a period of 3 (three) months, the Affected Party may be entitled to, though not being obliged, to terminate this Agreement by giving a notice of 7(seven) days to the other party and interest free Security Deposits/Performance Security shall be refunded by Maha-Metro to the Licensee after adjusting outstanding dues, ifany.

15. Material Breach of Contract / Events of Default: Following shall be considered

Material Breach of the Contract by Licensee (**"Licensee's Events of Default"** or **"Material Breach of Contract"**):

15.1. If the Licensee makes any of the following changes in Ownership:

i. Any change in percentage stake of JV/Consortium by the members without prior written permission of Maha-Metro.

ii. Dilution of stake of Lead Member in the JV/Consortium below 51% at any time during the License Period.

iii. Dilution of stake of any consortium member in JV/ Consortium below 15% during the License Period.

15.2. The Licensee shall maintain the validity of certificates required in Technical Requirements of Bid Document during the License Period, failing which it shall be treated as a Material Breach of Contract.

15.3. If at any time during the subsistence of the License Agreement, there is non-conformity to the License Agreement or to norms of regulatory authorities, or any time during the License Agreement, the Licensee indicates its unwillingness to abide by any clause of this License Agreement or repudiates this Agreement.

15.4. If the Licensee fails to pay License Fee or other amounts payable by Licensee within stipulated period.

15.5. If the Licensee is in persistent non-compliance of the written instructions of a Maha-Metro officials.

15.6. If the Licensee or any of their representatives cause an incident or accident that results in injury or death to Maha-Metro employees/ commuters or loss to Maha-Metro property.

15.7. If Licensee is in violation of any clause of this Agreement and after due written notice from Maha-Metro fails to cure the Default to the satisfaction of Maha-Metro.

15.8. The failure by Licensee to observe or perform any of the covenants, conditions or provisions of the Agreement, where such failure shall continue for a period of 15 (Fifteen) working days, after receipt of written notice thereof by Maha-Metro to the Licensee, provided however, that if the nature of the Licensee's default is such that it cannot be cured solely by payment of money and that more than15 (Fifteen) working days may be reasonably required for such cure, then the Licensee shall not be deemed to be in default if the Licensee shall commence such cure within such 15 (Fifteen) working days period and shall thereafter diligently process such cure to completion.

15.9. a) The filing by or against the Licensee of a petition to have the Licensee adjudged bankrupt or a petition of re- organization or arrangement under any law relating to bankruptcy;

a) The appointment of a trustee or receiver to take possession of substantially

all of Licensee's assets;

b) The attachment, execution or other judicial seizure of all of Licensee's assets.

16. Surrender/ Termination of License Agreement by Licensee:

16.1. If the Licensee is desirous of terminating the license hereby created before expiry of the lock-in period of 2 years, the License Agreement shall deemed to be terminated on the date mentioned in termination/ surrender notice, subject to confirmation by Maha-Metro. In such a case, the balance Interest Free Security Deposit/ Performance Security shall be forfeited in favour of Maha-Metro after adjustment of outstanding dues, if any, payable to Maha-Metro. No grace period for vacation of premises shall be provided to licensee in such a case. Maha-Metro may also recover the balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, from the other contracts of licensee in Maha-Metro. Balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, shall also be recoverable from the licensee before licensee is permitted to remove their establishment(s) or else Maha-Metro will seize their property treating as Zero/Nil value. Maha-Metro shall be free to dispose-off the property / goods in whatsoever manner as it deems fit. Licensee shall have no claim for compensation or consideration / damages on this account.

16.2. The Licensee shall have option to exit from the License Agreement immediately after completion of lock-in period of 2 years. For this, the licensee shall give 180 days prior intimation to Maha-Metro which can be given before completion of defined lock-in period of 2 years. In this instant case the prior notice can be given after $1^{1}/2$ (One and half) years but option to exit is available only after 2 years. In such a case, balance Interest Free Security Deposit/ Performance Security of the Licensee shall be refunded after adjusting the outstanding dues, if any, payable on the part of Licensee. Maha-Metro may also recover the balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, from the other contracts of licensee in Maha-Metro. Balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, shall also be recoverable from the licensee before licensee is permitted to remove their establishment(s) or else Maha-Metro will seize their property at Zero/nil value. Maha-Metro shall be free to dispose-off the property / goods in whatsoever manner as it deems fit. Licensee shall have no claim for compensation or consideration / damages on this account.

16.3. If the Licensee is desirous of terminating the license after expiry of lock-in period of 2 years without serving any intimation period or shorter intimation period than 180 days, the agreement shall deemed to be terminated on completion of such improper /short intimation period. In such cases, the Interest Free Security Deposit/ Performance Security shall be refunded to the Licensee after adjustment of license fee for period shorter than 180 days (notice period) and outstanding dues, if any. Maha-Metro may also recover the balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, from the other contracts of licensee in Maha-Metro. Balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, shall also be recoverable from the licensee before licensee is permitted to remove their establishment(s) or else Maha-Metro will seize their property at Zero/Nil value. Maha-Metro shall be free to dispose-off the property / goods in whatsoever manner as it deems fit. Licensee shall have no claim for compensation or consideration / damages on this

account.

17. **Natural Completion of License Agreement**: In case of successful completion of the full term of 9 (Nine) years of the License period, balance Interest Free Security Deposit/ Performance Security of the Licensee shall be refunded after adjusting the outstanding dues. If, balance outstanding dues are more than Interest Free Security Deposit/ Performance Security, shall also be recoverable from the licensee before licensee is permitted to remove their media or else Maha-Metro will seize their property at Zero/Nil Value. Maha-Metro may also recover the balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, from the other contracts of licensee in Maha-Metro. Maha-Metro shall be free to dispose-off the seized goods in any manner as deemed fit & Licensee shall have no claim for compensation, damages etc. on his account.

18. **Termination of License Agreement by Maha-Metro:**

18.1. Provided that in the event of Licensee's Event of Default, Maha-Metro shall give to the Licensee 15 day time to cure the default prior to considering the events specified therein as Licensee's events of default and in the event the Licensee remedies the default to the satisfaction of the Maha-Metro within the cure period, the event shall not be considered as a Licensee Event of Default.

18.2. If the Licensee failing to cure the default within 30 days it shall constitute Material Breach of Contract under this Agreement. It shall entitle Maha-Metro to disconnect all utilities provided to the Licensee and to terminate License Agreement along with forfeiture of Interest Free Security Deposit after adjustment of dues payable by the Licensee to Maha-Metro. No representation of licensee shall be entertained after the expiry of cure period.

18.3. **Termination on Operational Ground**: Maha-Metro reserves the right to terminate or withdraw a portion of the License Agreement by giving three months advance notice on operational ground. The License agreement shall stand terminated after expiry of three months' notice and the Interest Free Security Deposit/ Performance Security shall be refunded after adjusting outstanding dues, if any, payable by the Licensee. The Licensee voluntarily agrees not to seek any claim, compensation, damages or any other consideration whatsoever on any ground in this regard.

18.4. **Termination due to Force Majeure conditions**: The License Agreement may be terminated for Force Majeure Reasons as specified in License Agreement.

19. **Upon termination of this License Agreement for any reasonwhatsoever:**

19.1. On termination/ completion of License Agreement:

a) All third-party agreements, entered by the Licensee, shall stand terminated with immediate effect;

b) In case of termination of agreement on account of Licensee's Events of Default, the balance Interest Free Security Deposit/ Performance Guarantee shall be forfeited in favour of Maha-Metro after adjustment of outstanding dues, if any, payable to Maha-Metro. Maha-Metro may also recover the balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, from the other contracts of licensee in Maha-Metro. Balance outstanding dues, if are more than Interest Free Security Deposit/ Performance Security, shall also be recoverable from the licensee before licensee is permitted to

remove their media or else Maha-Metro will seize their property at Zero/Nil value. The infrastructure provided by the Licensee shall be removed by the Licensee itself from the premises in case if Maha-Metro desires so. In case, if the Licensee does not remove its infrastructure as desired by Maha-Metro from its premises, same shall be removed by Maha-Metro at the cost of the Licensee and Maha-Metro shall be free to dispose-off the property / goods in whatsoever manner as it deems fit. Licensee shall have no claim for compensation or consideration / damages on this account.

c) All utilities shall be disconnected with immediate effect, unless otherwise specified elsewhere, and

d) The Licensee shall vacate the premises within 30 days after date of issue of termination notice.

19.2. Vacation of Demised Premises:

a) The equipment installed by Licensee inside the tunnels and any other installations at Licensed Premises or at any other part of station, that has become integral part of Maha-Metro structure or removal of such installation may harm Maha-Metro basic structure shall become property of Maha-Metro and shall not be allowed for removal.

b) On termination/completion/surrender of the license agreement, the Licensee shall handover the vacant possession of premises to the Station-in-charge or his authorized representative within 30 days Grace Period (for which no license fee shall be charged) from the date of termination of License Agreement, after removal of media, fixtures, panels, etc. installed by the Licensee at their own cost, without causing damage to Maha-Metro structures. The Licensee agrees voluntarily and un-equivocally not to seek any claim, damages, compensation or any other consideration whatsoever on this account. If the premise is not handed over in good condition as required under this clause, Maha-Metro reserves the right to deduct/ recover damage charges.

c) If, the Licensee fails to vacate the licensed space/premises within the grace period, penalty of twice the prevalent monthly License Fee shall be chargeable for occupation for this 30- day period. And after lapse of this 30 days Grace Period, Maha-Metro shall take over the goods/ property treating at NIL value, even if it is under lock & key; and Maha-Metro shall be free to dispose-off the property in whatsoever manner as it deems fit. Licensee shall have no claim for compensation or consideration / damages after completion of grace period. If, licensee fails to pay the penalty, applicable in case of non-vacation of premises, the same shall be adjusted from the Interest Free Security Deposit / Performance Guarantee available with Maha-Metro. No grace period shall be provided to licensee, if licensee terminates the contract within the lock-in period.

19.3. After vacating the premises, the Licensee shall submit a vacation certificate from the Station in- charge or its authorized representative as a proof of Licensee having vacated the site. Licensee's statement regarding vacation, without a vacation certificate from the Station in-charge or its authorized representative, shall not

be accepted.

19.4. The termination of this Agreement shall not relieve either party from its obligation to pay any sums then owing to the other party nor from the obligation to perform or discharge any liability that had been incurred prior thereto. The Licensee shall be liable to pay all dues outstanding to Maha-Metro including electricity, chiller and other utility charges under this agreement without prejudice to rights and remedies applicable under the law. The final settlement of dues shall take place after submission of vacation certificate from the Station in-charge or his authorized representative subsequent to termination of License Agreement.

19.5. Rights of Maha-Metro on Termination: Maha-Metro shall not have any obligation whatsoever including but not limited to obligations as to compensation for loss of employment, continuance or regularization of employment, absorption or re-employment on any ground, in relation to any person in the employment of or engaged by the Licensee in connection with the Licensed space.

19.6. On termination of Agreement, Maha-Metro shall have rights to re-market or to seal/ lock the Licensed Space.

20. Represents and Warrants:

a) The Licensee represents and warrants to Maha-Metro that-

b) It is duly organized, validly existing and in good standing under the laws of India;

c) It has full power and authority to execute, deliver and perform its obligations under this Agreement and to carry out the transactions contemplated hereby;

d) It has taken all necessary corporate and other action under Applicable Laws and its constitutional documents to authorize the execution, delivery and performance of this Agreement;

e) It has the financial standing and capacity to undertake the commercial utilization of Licensed Commercial spaces;

f) This Agreement constitutes its legal, valid and binding obligation enforceable against it in accordance with the terms hereof;

g) The execution, delivery and performance of this Agreement shall not conflict with, result in the breach of, constitute a default under or accelerate performance required by any of the terms of the Licensee Memorandum and Articles of Association or any Applicable Law or any covenant, agreement, understanding, decree or order to which the Licensee is a party or by which Licensee or any of its properties or assets are bound or affected;

h) There are no actions, suits, proceedings or investigations pending or to the Licensee's knowledge threatened against the Licensee at law or in equity before any court or before any other judicial, quasi-judicial or other authority, the outcome of which may constitute the Licensee Event of Default or which individually or in the aggregate may result in Material Adverse Effect;

i) It has no knowledge of any violation or default with respect to any order, writ, injunction or any decree of any court or any legally binding order of any government authority which may result in Material Adverse Effect;

j) It has complied with all applicable law and has not been subject to any fines, penalties, injunctive relief or any other civil or criminal liabilities which in the aggregate have or may have Material Adverse Effect;

k) No representation or warranty by the Licensee contained herein or in any other document furnished by the Licensee to Maha-Metro or to any government authority in relation to Applicable Permits contains or shall contain any untrue statement of material fact or omits or shall omit to state a material fact necessary to make such representation or warranty not misleading;

l) The Licensee also acknowledges and hereby accepts the risk of inadequacy, mistake or error in or relating to any of the matters set forth above and hereby confirms that Maha-Metro shall not be liable for the same in any manner whatsoever to the Licensee.

m) The Licensee shall make its own arrangements in engagement of its staff and labour and shall at no point represent to or claim that the staff, labour is being recruited for and on behalf of Maha-Metro. The Licensee shall at all times comply and represent to the staff and labour employed/ engaged by them the requirement for complying with Applicable Laws and applicable Permits, particularly in relation to safety and environmental regulations.

n) Obligation to notify change: In the event that any of the representations or warranties made/ given by the Licensee ceases to be true or stands changed, it shall promptly notify Maha-Metro of the same.

21. Dispute Resolution

21.1. Arbitration:

a) All disputes relating to this agreement or claims arising out of or relating to this agreement or breach, termination or the invalidity thereof or on any issue whether arising during the progress of the services or after the completion or abandonment thereof or any matter directly or indirectly connected with this agreement shall be referred to Arbitrator(s) appointed by Maha-Metro / Director concerned on receipt of such request from either party. Matters to be arbitrated upon shall be referred to a sole Arbitrator if the total value of the claim is upto Rs. 50 Lakhs and to a panel of three Arbitrators, if total value of claims is more than Rs. 50 Lakhs. Maha-Metro may provide a panel of three Arbitrators for the claims upto Rs.50 Lakhs and a panel of five Arbitrators for claims of more than Rs. 50 Lakhs. Licensee shall have to choose the sole Arbitrator from the panel of three and / or one Arbitrator from the panel of five in case three Arbitrators are to be appointed. Maha-Metro shall also choose one Arbitrator from this panel of five and the two so chosen will choose the third Arbitrator from the panel only. The Arbitrator(s) shall be appointed within a period of 30 days from date of receipt of written notice / demand of appointment of Arbitrator from either party.

b) The decision of sole Arbitrator / panel of Arbitrators shall be binding on all the parties. The cost of arbitration shall be borne by respective parties equally. The venue and seat of such arbitration shall be Pune. The parties agree to comply with the awards resulting from arbitration and waive their rights to any form of appeal insofar as such waiver can validly be made.

c) **Rules governing Arbitration Proceedings**: The Arbitration Proceedings shall be governed by Indian Arbitration and Conciliation Act 1996, as amended from time to time including provisions in force at the time the references made. During the pendency of arbitration proceedings, the Licensee shall continue to perform and make due payments to Maha-Metro as per the License Agreement. The Arbitration proceedings shall be in English

21.2. **Jurisdiction of Courts**: The Court at Pune and Bombay High Court shall have exclusive jurisdiction to try all disputes between the parties arising out of this agreement.

22. Miscellaneous

22.1. Insurance and Waiver of Liability- The Licensee shall bear the cost, throughout the term of the License, for a comprehensive general liability insurance covering injury to or death of any person(s) while working in Maha-Metro premises, including death or injury caused by the sole negligence of the Licensee or the Licensee's failure to perform its obligations under the Agreement. The Licensee shall submit to Maha-Metro, suitable evidence that the foregoing policy or policies are in effect. In the event of the default i.e. avoiding the insurance cover, the Licensee agrees and undertakes to indemnify and hold Maha-Metro harmless against any liability, losses, damages, claims, expenses suffered by Maha-Metro because of such default by the Licensee.

22.2. The Licensee shall comply with all the provisions of Labour Laws & regulations in force including but not limited to the Contract Labour (Regulation & Abolition) Act-1976 including any subsequent amendment thereof and the rules made there under. Licensee will indemnify Maha-Metro Administration for any loss and damages suffered due to violation of its provision.

22.3. The Licensee shall comply with the laws of land / other guidelines. Maha-Metro will not be held liable for any change/modification in the laws that adversely affect this Agreement. Licensee shall have no right / claim in this regard, whatsoever the reason may be.

22.4. The Licensee will not ask for any claim or seek any compensation from Maha-Metro if any installation of equipment at licensed premises at any station is not permitted due to court order/local laws/civil authorities.
The Licensee hereby indemnify Maha-Metro against any loss, damage or liabilities (including attorney's fees) arising as a result of any act of omission or commission on its part or on part of its personnel or/and in respect of non-observance of any statutory requirements or/and non-observance of any condition which relates to this Agreement.

22.5. The Licensee hereby agrees that Maha-Metro shall have no responsibility as regards

Licensee's employees and the employees shall be the employees of Licensee only and shall not be construed under any circumstances as employees of Maha-Metro. Licensee hereby indemnifies Maha-Metro against the claims made by Licensee's employees against Maha-Metro.

22.6. The Licensee hereby undertakes to discharge all statutory obligations and liabilities in connection with employment of its personnel in the said Licensed Premises. Licensee hereby indemnifies Maha-Metro against any liability arising in connection with the employment of its personnel in the said Licensed Premises by Licensee. Licensee hereby undertakes to carry out police verification of its employees and submit the copy of same to designated office of Maha-Metro in accordance with Maha-Metro's policies regulations prevalent at that time.

22.7. That no tenancy/sub-tenancy is being created by Maha-Metro in favour of Licensee under or in pursuance of this Agreement and it is distinctly & clearly understood, agreed & declared by and between the parties hereto that: -

a) That the Licensee shall not have or claim any interest in the said Licensed Premises as a tenant/ sub-tenant or otherwise:

b) That no right as a tenant/sub-tenant or otherwise is purported or intended to be created or transferred by Maha-Metro in favour of Licensee in or in respect of the said Licensed Premises, except to carry out their activities over the granted space under this License Agreement; and

c) That the rights, which Licensee shall have in relation to the said Licensed Premises, are only those set out in this Agreement.

22.8. The relationship between Maha-Metro and Licensee under and/or in pursuance of this Agreement is as between Principal and Principal. Consequently, neither party shall be entitled to represent the other and/or make any commitment on behalf of and /or with traders or any other party. Furthermore, no relationship in the nature of Partnership or Association of persons is hereby being created or intended to be created between Maha-Metro on the one hand and Licensee on the other hand in connection with and/or relating to business to be operated by Licensee at the said Licensed Premises.

22.9. Licensee shall bear all salaries, wages, bonuses, payroll taxes or accruals including gratuity, superannuating, pension and provident fund contributions, contributions to worker's compensations funds and employees state insurance and other taxes and charges and all fringe and employee benefits including statutory contributions in respect of such personnel employed/deployed by the Licensee and these personnel shall at no point of time be construed to be employees of Maha-Metro and the Licensee shall be solely responsible for compliance with all labour laws which shall include all liabilities of the Provident Fund Act, ESI Act, Workmen's compensation Act, Minimum Wages Act and other Labour Welfare Act in respect of its personnel. The Licensee shall indemnify Maha-Metro from any claims that may arise in connection with above.

22.10. **Employees conduct:** The Licensee shall ensure that all persons employed behave in an orderly and disciplined manner and that the said employees are prohibited from carrying on any unlawful, unfair activities or demonstrations. The Licensee

shall, within 45 days of handing over of the stations, submit the details/Bio data of personnel, it intends to employ/deploy for carrying out the work of equipment installation. The personnel deployed shall be decent, courteous and without any adverse or criminal background. In this connection, Licensee shall be required to furnish declaration to Maha-Metro with respect to all his personnel deployed. Further, within 45 days of issue of LOA, Licensee shall submit police verification report in respect of all its personnel (to be deployed for the work of media installation) to Maha-Metro. All the Licensee's personnel shall be required to possess ID card while working in Maha-Metro's premises as per prevailing procedure. Access inside the stations in paid areas shall be through smart cards as per prevailing applicable charges, in addition to the valid ID cards.

22.11. **Misuse: -** The Licensee shall use the granted space under the Agreement only for those services provided therein and shall not use the same for any other purposes. In case, the Licensee carries on any business or uses the said Licensed Premises for any other purposes the License shall be deemed to have been misused and Maha-Metro (Licensor) shall immediately terminate the Agreement. All liabilities for misused charges and mis-user proceedings, if so initiated shall be that of the Licensee only. The Licensee shall indemnify and keep indemnified Maha-Metro for any losses on this account.

22.12. Compliance with the Law: - The Licensed Premises and the fixtures and the appurtenances thereto (except those installed by Maha-Metro) conform to every applicable requirement of law or duly constituted authority or the requirements of the carriers of all insurance on or relating to the Licensed Premises. The Licensee at its sole risk and expense, at all times during the term thereof promptly comply with all such requirements. The Licensee shall comply with all applicable statutes, ordinances, rules and regulations of central, state governments, municipal bodies, and all applicable rules and also regulations of the Pune Fire department. The Licensee shall also comply with all rules and regulations under the Metro Railways (Operations and Maintenance) Act 2002 and also to instructions issued from time to time from Maha-Metro as breach of contract and may lead to termination of contract and forfeiture of interest free security deposit and other payments. Licensee shall comply with and abide by the judgments passed from time to time by Hon'ble Supreme Court / High Court or any other judicial / quasi-judicial body / authority. The same shall be the responsibility of Licensee.

22.13. **Transfer: -** The Licensee, during the tenure of this Agreement shall not transfer, assign or part with the Licensed Premises or any portion thereof permanently or temporarily to anybody else and shall not be allowed to take any person to share the accommodation nor in partnership without the prior written permission of the Licensor, nor shall they be entitled to allow any person to occupy the Licensed Premises or to use any part thereof save with the prior permission in writing of the Licensor except otherwise provided in this Agreement.

23. Notices

23.1. That any notice to be served upon Maha-Metro shall be sufficiently served and given if delivered to designated Engineer-of –Charge for the work.

23.2. That any notice which may be required to be served upon the Licensee, shall be deemed to be served and given to the Licensee if delivered by Registered /Speed

Post/Courier at the Address given on the First page of the License Agreement or delivered in person to the authorized representative of Licensor.

23.3. That any notice or correspondence under the terms of this License shall be in writing by registered post/ Speed Post/ Courier or delivered personally. All activities including day to day management, billing, cancellation/termination/surrender etc. shall be carried out from the office of the Chief Engineer/Property Business or by his duly authorized representative.

23.4. Only written instructions/ notices of any party shall be entertained by the other party.

IN WITNESS WHEREOF the LICENSEE and the Maha-Metro have set their hands hereunto on the day, month and year first written above in the presence of the following witnesses:

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Maha-Metro LICENSEE

Annexure-10.1: Details of Locations

Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP) at each of the Five (5) Metro Station of size approx. 10 sqm each.

Annexure-10.2: Form of Performance Security (Guarantee)

(To be stamped in accordance with the Stamp Act of the Country of Issuing Bank)

(Demand Guarantee)

Beneficiary:_____
Date: _____
PERFORMANCE GUARANTEE No.: _____
Guarantor: _____

We have been informed that_____(hereinafter called "the Applicant")has entered into Contract No._____dated__with the Beneficiary, for the execution of_____(hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, waiving all objections and defences under the aforementioned contract, hereby irrevocably and independently undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of(_____),[1] such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's first demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant has failed to duly perform the aforementioned contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the …. Day of ……, 2… [2], and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

*[signature(s)]*_____

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[1] *The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency(cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.*

[2] *Insert the date twenty-eight days after the expected completion date. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period*

not to exceed [six months][one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

Annexure-10.3: Non-Disclosure Agreement

This Non-Disclosure agreement is made on this____day of 20

BETWEEN

Maharashtra Metro Rail Corporation (Maha-Metro) Limited, a SPV of Government of India and Government of the Maharashtra, having its registered office at ….., India (hereinafter referred to as "Maha-Metro" or "Disclosing Party") which expression shall unless repugnant to the context mean and include its successors, administrators and assigns,

AND

M/s_____, incorporated under the companies act, 1956 having its registered office at_____and corporate office at_which expression shall unless repugnant to the context mean and include its successors, administrators and assigns (hereinafter referred to as "Receiving Party").

A. Whereas The Maha-Metro invited open tender for Licensing of Space for _____(name of work), wherein M/s _____ has been found as the successful bidder. Accordingly, Maha-Metro has issued Letter of Acceptance in favour of M/s _____ vide Maha-Metro letter No._____dated _____.

B. Whereas in connections with such discussions, the Maha-Metro and the M/s___have considered that for this purpose there will be exchange of various information of a technical, commercial or financial nature and other information of a strictly confidential nature with the implementing agency M/s_____for the purpose of Design, Develop, Build, Install, Maintain and Operate for _____(name of work) and need to protect such confidential information from unauthorized use and disclosure.

C. Maha-Metro and M/s_____have considered and agreed to make an arrangement which will involve disclosing information in confidence by Maha-Metro (Disclosing Party) to the M/s or "Receiving Party" relating to _____ _____(name of work).

I. The Confidential information proposed to be disclosed shall concern to Maha-Metro (Disclosing party)

II. Parties wish to record the terms and conditions upon which such confidential information will be disclosed by the disclosing party to the receiving party.

NOW THEREFORE IT IS HEREBY AGREED FOR FAIR AND REASONABLE CONSIDERATION, AS FOLLOWS:

1. "Disclosing Party" in relation to confidential information means such party as shall be the giver of confidential information to the receiving party such as an employee of the Receiving Party under this Agreement.

2. "Receiving Party" in relation to the confidential information means such party as shall be in receipt of such confidential information from the Disclosing Party such as an employee of the Disclosing Party.

3. "Purpose" – Purpose shall mean the use of confidential information received from Disclosing Party by the Receiving Party for__(name of work).

4. The Receiving Party undertakes to maintain strictly confidential and not disclose or pass on to any third party(s), by any means whatsoever, the information which will be provided to it by the Disclosing Party or to which the Receiving Party will have access in connection with the performance of this Agreement. For the purpose of this Agreement, "Confidential Information" means all information whatsoever, irrespective of the means, mode or medium of storage, representation or presentation of same together with all modifications, adaptations and derivations thereof, relating to either party, including but not limited to:

    a. investigative studies, research and development activities, reports and findings, consultations, methodologies, proposals, systems, programs, techniques, strategies, discoveries, processes, innovations, inventions, trade secrets, technical drawings, know- how, formulae, concepts, designs, plans and models, financial and marketing information and knowledge , business plans and information regarding the affairs of a party generally. Source and object code, arrangements and agreements with third parties, whether given orally , in writing or otherwise,

    b. any derivations of any information or data which embodies, contains or describes the confidential information;

    c. all orally & documented information transmitted by Maha-Metro to receiving party

    d. any data or information designated to be confidential or relating to the current or prospective research, activities or business of disclosing party

    e. and, more generally, all information identified as confidential which will become known to the receiving party

    f. information regarding the existing or progress of any negotiations or agreement among the parties to the project; all being in the field of or relating to "the project" or disclosed by the parties or either of them, for the purpose contemplated by this Agreement.

5. In consideration of the Disclosing Party making the confidential information available to Receiving Party, the Receiving Party agrees that it will:

    a. All information and documentation disclosed by Maha-Metro to the receiving party, hereinafter referred to as the confidential information shall be used by the receiving party only for the purpose and take all actions necessary to keep confidential the confidential information supplied by Disclosing Party;

    b. Not disclose the confidential information supplied by the Disclosing Party to any third party, corporation or other person whatsoever without the written

consent of the Disclosing Party;

c. Not to copy, disseminate or use such confidential information except as expressly authorized in writing by the Disclosing Party.

d. Not delete any confidentiality and/or proprietary notices or legends appearing on the original confidential information as disclosed by or for the Disclosing Party.

6. The Receiving Party expressly agrees to use any confidential information which comes to the knowledge of its employees only as provided in this Agreement and understand that any unauthorized disclosure or misuse of the confidential information may result in substantial and irreparable damage to the Disclosing Party. The Receiving Party will take all necessary precautions and that the Receiving Party further covenants with the Maha-Metro/Disclosing Party:

a. That the information provided by the Disclosing Party is only for the purpose as envisaged in the Agreement and that the Receiving Party shall not use any or all of the confidential information in any other manner.

b. That it shall not reproduce or disclose any confidential information to third party(s) in relation to the purpose and acknowledges that the patents, design, drawings and information relating to the purpose are proprietary and confidential and owned by Maha-Metro, the Disclosing Party.

c. That it shall use the highest degree of care to prevent unauthorized disclosure of design, drawings and information supplied by the Maha-Metro. The Receiving Party shall treat the Disclosing Party's confidential information with the same procedures and precautions as it would use to protect their own information that it does not wish to be disclosed, from unauthorized disclosures or other misuse.

d. To return promptly to the Disclosing Party or destroy any copies of such confidential information in written, graphic or other tangible form upon termination or upon request from disclosing party as the case maybe.

e. That it shall not sell, market, consign or deliver directly or indirectly, products using confidential information, technology, drawings or specifications supplied by Maha-Metro except to the Maha-Metro.

7. The parties agree that the obligations of confidentiality shall not apply to that part of the confidential information which:

a. is in the public domain at the time of disclosure to the Receiving Party or thereafter enters the public domain from a source unconnected with any of the parties to the agreement without breach of the terms of this agreement .

b. is already known to the Receiving Party at the time of disclosure or was developed by the Receiving Party independently of the disclosure of confidential information by the Disclosing Party (as the appropriate written documents, register or records shall prove beyond doubt).

8. If the Receiving Party is legally compelled by a court or government agency with jurisdiction to disclose any of the information, such party shall promptly notify the Disclosing Party so that it may seek a protective order or other appropriate remedy and/or waive compliance with the provisions of this agreement. Otherwise, if the Receiving Party is required to disclose all or part of the confidential information by any court of law, governmental or regulatory authority or authority of competent jurisdiction to whose rules the Receiving Party is subject, it will be entitled to do so, provided in each case that the Receiving party shall immediately consult with Disclosing Party in advance so as to the form, content and timing of the disclosure and shall take all reasonable action to limit such disclosure and shall exercise reasonable effort to obtain reliable assurance that the information will be treated confidentially.

9. The Receiving Party represents that it has a stringent policy and procedures adequate and sufficient to protect its own confidential information from unauthorized disclosure and agrees that the confidential information disclosed by the Disclosing Party, will also be subject to that policy and procedures. The Receiving Party agrees to obligate any and all of its employees or representatives who may have access to any portion of the confidential information, in any form, to protect the confidential and proprietary nature of the confidential information. The Receiving Party undertakes to pass on the information only to those of its employees required to become acquainted with it and use it. Nevertheless, the Receiving Party may pass on the information to its sub-contractors involved in the aforesaid purpose, after receiving the express consent in writing of the Disclosing Party.

10. Nothing in this Agreement shall be deemed to grant any license, title or interest in respect of any intellectual property rights which does or may subsist, now or in the future, in the confidential information of the Disclosing Party.

11. The Receiving Party acknowledges and agrees that the confidential information of the disclosing party is a valuable asset of the Disclosing Party and that any disclosure or use thereof in violation of the provisions of this Agreement will cause irreparable harm and loss to the Disclosing Party. As such the Receiving Party, acknowledges and agrees that monetary damages alone may not be an adequate remedy for any breach of the provisions of this agreement by the recipient or its employees. In the event the Receiving Party were to breach the terms of this agreement, it agrees that Disclosing Party shall be entitled to seek the remedies of injunction, specific performance and other equitable relief for any threatened or actual breach of the provisions of this agreement and that no proof of special damages shall be necessary for the enforcement of this agreement.

12. This Agreement and the rights, interests, benefits, duties and obligations hereunder shall not be assigned or transferred in any way by the Receiving Party

13. This agreement shall be construed according to and governed by the laws of India. In the event of any dispute between the parties arising under this agreement, any party may notify the other in writing of the substance of the dispute/complaint and the parties shall use their best efforts to resolve such disputes amicably through discussions before conciliatory authority.

14. If the dispute is not settled within thirty days of notification, unless the parties otherwise agree in writing, such dispute shall be finally settled in accordance with the provisions of the Arbitration and Conciliation Act 1996 amended and modified

from time to time and prevailing at the relevant time. The venue and seat of the arbitration shall be Pune. The arbitration proceedings will be in English.

15. It is acknowledged by the parties that the Receiving Party shall hold the Disclosing Party harmless and indemnify for any loss suffered or for the expenses incurred by Disclosing Party arising out of a breach by the Receiving Party or his employees of their obligations under this Confidentiality Agreement.

16. Neither the execution of this Agreement nor the disclosure or receipt of confidential information nor the carrying on of any discussions or negotiations nor the relationship between the parties resulting from this agreement may under no circumstances create commercial agency relations and neither party shall have the right to bind the other on the basis of this Agreement or to enter into any further agreement.

17. This Agreement shall come into force on the date set forth on the first page hereof and shall remain in full force for a period of 6 years from such date, the confidentiality obligations surviving expiry or earlier termination for a period of 6 years as of the date set forth on the first page. However, the same can be renewed on mutually agreed terms and conditions.

18. This Agreement may be terminated by either party by giving thirty day notice to the other party without assigning any reason whatsoever. The obligations of each party will continue and be binding irrespective of whether the discussions between the parties materialized into a specific understanding or failure to conclude the purpose as the case may be.

19. The Receiving Party further covenants that in the event of this Agreement being terminated for any reason whatsoever, it shall forthright return to the Disclosing Party all designs, drawings, technical, commercial, financial information/documents supplied to it by the Disclosing Party. The Receiving Party also undertakes to return, at its own expenses, all confidential information transmitted to it by the Disclosing Party on the expiration or termination of this agreement or in any event, upon a written request made by the Disclosing Party. The Receiving Party shall provide the Disclosing Party with a certificate of an appropriate corporate executive attesting that all confidential information has been duly returned to the Disclosing Party.

20. In the event that the parties wish to be more specific about the extent of the confidential information that is to be exchanged, this agreement including any amendment thereto may be modified in writing by means of a written amendment signed by both parties.

21. All notices required to be given pursuant to this agreement shall be made in writing and be personally served or deposited or shall be deemed to have been served if sent by registered post addressed as set forth hereinabove or to such other address as each party shall have specified in writing to the other party.

22. It is expressly agreed that any failure or delay by any party to require the enforcement of any of the articles of this agreement shall not be construed as a waiver by such party of any of its rights nor will it affect in any way the validity of this agreement of any of its provisions or the right to enforce such provisions at any time thereafter.

23. Should any or one or several of the provisions of this agreement be or become invalid, it shall not affect the validity of the other remaining provisions. The parties agree to

replace the legally invalid provision, if possible, by an effective provision whose economic effect shall be as similar as possible to the original provision, and the parties agree that the new provision shall be deemed to have been agreed upon from the time the original provision became invalid.

24. This Agreement is complete and exclusive statement regarding the subject matter of this Agreement and supersedes all prior agreements, understandings and communication between the parties regarding the subject matter of this Agreement.

25. This Agreement will be construed, interpreted and applied in accordance with the Laws of India and jurisdiction of court shall be: District and Sessions Court, Pune, Maharashtra/ High Court of Judicature at Bombay, Maharashtra/ Supreme Court of India, New Delhi to adjudicate any dispute arising out of this Agreement between the parties.

IN WITNESS WHEREOF the Parties hereto have subscribed their names and signed on this Agreement on the day and year first written above.

Signed for and on behalf of Maharashtra Metro Rail Corporation Ltd	Signed for and on behalf of M/s _____
WITNESS	WITNESS
1.	1.
2.	2.

Annexure-10.4: Cable Specifications
(Cable Fire & Smoke Requirement)

1. INTRODUCTION

1.1. This specification covers the design and construction requirements for low smoke, fire retardant zero halogen/low halogen cables for cabling system for all sub systems of telecommunication systems, except equipment specific cables, for DMRTS System specific specifications of each type of cable are also detailed in this specification.

1.2. Cables shall comply with the latest version of the relevant requirements of British Standards, IEC standard, ASTM standards, ITU recommendations or equivalent international standards.

1.3. All cables shall have continuous operating life of at least 25 years. All cables used in external or open areas shall be the armoured type and shall be able to with stand rain and ultraviolet rays. As a minimum, all Telephone, Public Address, CCTV, Data and Power cables laid in outdoor ducts/ trenches/trays from the Station (e.g. to Ancillary Buildings) and within the Outdoor Depot area (
e.g. one building to another), shall be armoured type. Optical Fibre for all areas shall be armoured type.

1.4. The Employer's Representative shall have the right to reject in whole or part of any work or material that does not conform to the terms of this specification or and may order the same to be removed/ replaced or altered at the expense of the manufacturer.

1.5. The Contractor shall satisfy the Employer's Representative by producing certificate from a recognized testing laboratory or otherwise that the materials used and the cable itself is of the highest possible standards and complies with all relevant specifications. In case of no relevant test certificates being available tests shall be carried out by Contractor (manufacturer) as those laid down with relevant specification, but this shall not preclude any test desired the Employer's Representative to determine the quality of the cable. In addition, 4 random samples from each type cables are required to be tested for conformance of the specifications related to fire and smoke in Govt. lab and cost of such testing to be borne by the Contractor.

2. Fire and Smoke Performance Requirements

2.1. It is essential that hazardous conditions arising from overheating or ignition of cables especially in the underground areas are avoided. The cables for installation in underground/tunnel areas shall be manufactured from fire retardant/ resistant, low smoke, zero halogen materials. (FRLSZH). All insulation shall be moisture and heat resistant, with temperature ratings appropriate to the application conditions and in no case lower than 60 degree C. (except Data)

2.2. The contractor shall comply in general with the pertinent requirements of NFPA 130 (Fixed Guideway Transit system 2007 edition issued by the US National Fire Protection Association).

3. **Flammability**

   3.1. The bedding and oversheath of the cable shall have a minimum oxygen index of 30 when tested in accordance with ASTM D2863/BS 2782: Part 1: Method 141 /NES 715.

   3.2. The temperature index of the bedding and oversheath of the cable shall not be less than 250 ^{o} C when tested in accordance with ASTM D2863/ BS 2782: Pat 1: Method 143/ NES 715.

4. **Fire Resistance:**

   Unless otherwise specified for the fire-resistant requirements, all cables shall comply with reduced fire and flame propagation requirements of IEC 60332-1 & 60332-3 Cat C for single and bunched cables respectively.

5. **Corrosive and Acid Gas Emission:** The level of hydrochloric acid of the fire-retardant low smoke, zero halogen compound (filler bedding, oversheath, etc.) and the insulation of the cable shall not be greater than 0.5% when tested in accordance with BS 6425/IEC 60754: Part 1. In the case of fire retardant, low smoke, low halogen compound (filler bedding over sheath etc.) and the insulation of the cables, the level of the hydrochloric acid shall not exceed 20%. Corrosion and acid gases are defined as those, which are determined as hydrochloric acid.

6. **Smoke Emission:** The value of the smoke generated shall meet the requirements of transmittance.
   >=40% as per IEC 1034/BS 6724).

7. **LCX cable:** The oversheath of the cable shall be an extruded layer of anti-corrosion, reduced flame propagation, low smoke zero halogen compound complying with the fire performance requirements specified above. Single mica barrier tape under jacketing is required to prevent molten dielectric material from flowing out of the slots and igniting.

Annexure 10.5: Electricity charges & specification

The Licensee shall have the flexibility to install equipment of the necessary rated capacity required for smooth operations of the In-Building solutions infrastructure. Maha-Metro shall provide the following installations in the GSM/CDMA rooms at the stations:

- Air Conditioning of 3 star rating, 1.50 Tr
- Lighting Fixtures: 4 Nos. of 28 W each

Maha-Metro shall levy charges for electrical usage on actual basis during operations period at per month basis which shall be revised from time to time based on the prevailing guidelines and regulations of MSEDCL. Rate of electricity shall be charged from Licensee at rates which Maha-Metro is paying concerned DISCOM.

In the event of default of Licensee in making payments of License fees, maintenance charges (as applicable), fixed rental charges, air conditioning charges, taxes or any other dues towards MAHA-METRO in prescribed time, MAHA-METRO shall be entitled to discontinue / disconnect the service of electricity /air conditioning / water / sewer etc in licensed premises and debar the Licensee from availing use of common areas / facilities (viz., use of staircase / lifts, etc). Apart from the said rights as stated, MAHA-METRO shall also have the rights including but not limited to restrict the access of Licensee in licensed premises and recover all dues along with interest.

The Internal distribution of electric power, air conditioning systems, firefighting sprinklers, fire detection, advisable fire alarm panel etc. as per the norms required for the Licensed Space(s) shall be provided by the Licensee at his own cost.

The bidder / licensee will have to declare the load required for the space provided at each UG station. Depending on the load the fixed electricity charges will be levied by Maha-Metro, which will be revised yearly during license period. Licensee shall have to maintain its power demand within the declared load. However, the licensee if request for additional power load the Maha-Metro will provide the same with the fixed charges applicable for increased load. Licensee will have to apply the same one month in advance.
All costs of shifting of existing lighting/small power sockets circuits/ AHUs etc. if any, that are in tendered space, would be borne by the successful bidder. This would include all cost involved in shifting/modification/addition.
Successful bidder has to carry out all works for functioning of tendered area on their own with all cost including installation & commissioning of MCB/MCCB/ELCB in spare space of Panel at respective floor, ongoing feeders form panel, cable laying, cable trays, hangers in cable route, earthling, internal wiring, lighting, power distribution etc.
Any addition / up-gradation/ modification of existing electrical power system works if required, are to be taken up subjected to technical feasibility and approval from MAHA-METRO, If approved, same work can be carried out by successful bidder along with associated costs.
Successful bidder shall install only LED electrical lights and energy efficient Air-Conditioners to ensures energy conservation.
In case if any contractor/sub-contractor is found to consume or use electricity without Maha-Metro's permission or tampers a meter, it shall be as per Maha-Metro's rule and under Section 135(1) of Electricity Act, 2003 as amended by Electricity (amendment) Act, 2007.

Annexure-10.6A: Rules and Guidelines for Release of Electric Power

1. Electric power required for commercial activity within footprint of metro station is required to be sourced from existing available source of Maha-Metro at station, availing power supply from outside agencies is not permitted. The disbursement of power at different stations shall be dealt with individually under separate connections.

2. Maha-Metro will provide Power Supply of Single Phase, 230V, 50Hz for a max. connected load up to 5 KVA. Electrical load requirements exceeding 5 KVA will be given on 3- Phase 415V, 50Hz subject to availability and technical feasibility.

3. The power fed shall be from normal source without backup network. Licensees may however, provide UPS/ Inverter at their cost if they so desire. Installation of DG set is not permitted.

4. Licensee will have to take power supply from Maha-Metro's Distribution Board to the licensed premises at his cost by carrying out G.I. conduit wiring cabling. Licensee shall use FRLS copper cable, which will be taken inside a GI rigid conduit pipe. The Gl rigid conduit pipe shall be suitably clamped and earthed as per Maha-Metro's requirement.

5. Licensee will also do internal wiring within his space by using GI conduit or fire resistance PVC casing/caping. The licensee shall use FRLS copper wire of the required size (the wiring scheme, the type of wiring, size of wires, various loads, plug point, light, fan etc. hall be as per Maha-Metro's approval).

6. Licensee will have to provide a low voltage switchboard with MCBs & ELCB's of required capacity with meter box, etc. and an electronic meter of required capacity at his cost. The energy meter shall be sealed by Maha-Metro and not to be tempered by Licensee in any circumstances.

7. The total demand load & total connected load shall be treated as same; licensee will have to pay applicable demand charges as per the total connected load only.

8. Licensee is also required to comply with necessary provision for fire safety in accordance with stipulations. The work executed by Licensee shall be inspected by Maha-Metro representative for ensuring compliance of specifications/ stipulations of contract.

9. Licensee shall use Energy efficient lighting & shall provide proper lighting fixtures, lamps,electronic ballast etc.

10. Licensee shall use reputed Brand/ make of electrical wiring and switch gear items. The entire work shall be carried by the Licensed Electrical Contractor/Agency at licensee's cost. Maha-Metro's representative may inspect and supervise the work.

11. The power shall be supplied normally at the rate of 0.5KVA/sq. m. of space licensed out Minimum load to be given shall be 2KVA on which the demand charges as applicable shall be paid by the licensee. Additional power up to 5KVA on single phase and thereafter on three phase system if required by the licensee will be supplied, subject to availability at an additional cost and conditions to be stipulated by Maha-Metro.

12. The Energy consumed shall be charged based on Energy Meter Reading (KVAH/KWH)

which shall be taken once in a month on a nominated day by the Maha-Metro's representative. Licensee shall provide Test Report/Calibration report in regard to Energy meter installed. Maha-Metro may ask licensee to recalibrate the Energy meter whenever considered necessary by Maha-Metro.

13. In case, the licensee is found mis-using electricity or tampering with the energy meter, a token penalty of Rs. 1000/- will be charged from him along with disconnection of power supply. Reconnection of power supply will be done only after charging Rs. 100/- as reconnection fee and clearance of all dues duly obtaining approval of Competent Authority of Maha-Metro.

14. At the end of the contract (pre-mature surrender/termination, natural completion, etc.) all cable, meter, connected software, etc. shall be sole property of Maha-Metro. The Licensee voluntarily and unequivocally agrees not to seek any claim, damage, compensation or any other consideration whatsoever on account of time and costs associated, in making provision of electricity.

15. Connection is given after ensuring all safety compliance and completion of electrical and fire safety works in leased premises in all respect. Format of application for connection and lists of documents required are attached at Annexure-10.6(b).

16. Licensee has to pay security deposit amount of INR 5000/- and Application fees amount INR 300/-.

17. TARIFF: Rate of electricity shall be charged from Licensee at rates which Maha-Metro is paying concerned DISCOM.

Annexure –10.6B: Format of Application for Power Supply

SN	Item		Details
1	Name of the Licensee	:	
2	Station Name	:	
3	Reference to allotment letter (Copy to be attached)	:	
4	Load Requirement (KW)	:	
5	Details of submission of Advance Consumption Deposited as per Load	:	
6	Details of Cable installed along with earthing (Make and rating)	:	
7	Details of MCCB/MCB installed (make and rating)	:	
8	Details of ELCB installed (make and rating)	:	
9	Details of Energy meter installed (Make and rating)	:	
10	Please confirm whether lockable DB with earthing has been provided and sealed by Maha-Metro representative	:	
11	Attach Cable layout plan (submitted by license & signed by concerned E & M supervisor)	:	Attached / Not Attached
12	Attach Electrical Declaration along with annexure on appropriate value Non-judicial Stamp paper	:	Attached / Not Attached
13	Attach Electrical Installation Test report (In stipulated format) signed from electrical contractor holding valid License	:	Attached / Not Attached

Procedure

1. After ensuring completion of all electrical works as per stipulations and completion of all safety requirements i.e. Fire safety, clearance by local fire service etc. Licensee shall apply to concerned PD/PB department in above form.

2. Electrical Department and Fire Department shall carry out inspection at site and if found complied, permanent electric connection shall be released.

Annexure-10.6C: Electrical Installation Test Report

SN	Description	Details
1	Name & Address of the Applicant	
2	Location	
3	Shop / Unipay Payment (Kiosk) Machine / Stall No.	
4	Connected Load	
5	Energy Meter S. No. & Make (Manufacturer's test report is to be enclosed)	

It is certified that all the electrical work at above installation have been carried out in compliance to the IE rules, IE acts adhering to the safety norms, rules and regulations of Maha-Metro & that of any other statutory body. All men and material and temporary earthing have been removed from our end & the installation is fit for energizing.

It will be responsible on behalf of Licensee for non-compliance of any of the above. Copy of my valid electrical Contractor license is attached.

Seal & Signature of the Licensee

Seal & Signature of Electrical Contractor

(Holding Valid License)

Annexure-10.6 D: Declaration

I _____, son/daughter/wife of _____resident of_____ (hereinafter referred to as the "Applicant", which term shall mean and include executors, administrators, heirs, successors and assigns), do hereby swear and declare as under: Or

_____a company incorporated under the provision of the companies Act 1956, a sole proprietorship, a partnership having its registered I office at _____(hereinafter referred as "Applicant", which expression shall unless repugnant to the context or meaning thereof, include its successors and assigns), do hereby swear and declare as under:

That the Applicant is an occupant of the premises No _____at _____. having taken the premises from Maha-Metro on the terms and conditions agreed to with Maha-Metro which include that Maha-Metro may supply electricity as a part of the lease or license of the premises, based on the commercial arrangement, as requested the Maha-Metro to provide an electricity connection at the above-mentioned premises in the Applicant's name for the purpose mentioned in the application form.

The Applicant hereby agrees and undertakes:

1. That the Applicant desires to have and agrees with Maha-Metro to take supply of energy for the above- mentioned purpose, for a period of not less than two years from the date of commencement of supply and to pay for the energy so supplied and all other charges at the rates set out by Maha-Metro in Tariff schedule and the Miscellaneous charges for supply as may be in force from time to time, including Advance Consumption Deposit etc.

2. That the Applicant shall have no Objection for the DISCOMs to carry out Inspections of the Applicant's Meters & Equipment & Any Observation made by such Agencies, Which are acceptable to Maha-Metro. shall be binding on the Applicant for Attention/Compliance.

3. That Maha-Metro shall be entitled to disconnect the supply of energy by issuing a disconnection notice in writing, to the Applicant, if the Applicant is in default of payment of the due charges.

4. That the applicant shall pay the full amount mentioned in the Monthly/Bi-Monthly Consumption Bill as raised by Maha-Metro before the last date mentioned in such Monthly/Bi-Monthly Bill. Licensee shall provide Test Report Calibration Repot in regard to Energy Meter installed. Maha-Metro may ask Licensee to recalibrate the Energy Meter whenever considered necessary by Maha-Metro.

5. That all or any taxes/duties, as may be levied on the supply of electricity to the Applicant by Maha-Metro, shall be paid and borne by the Applicant.

6. That the Applicant agrees that Maha-Metro would accept an application from the Applicant for reduction in load only after two years from the original sanction. All applications for load enhancement by the Applicant would be dealt by Maha-Metro as a

new connection and Maha-Metro would follow the procedure as in the case of a new connection.

7. That Maha-Metro shall have the right to recover the fixed charges due as per applicable tariff for the remaining contracted period in case the contract is terminated prior to the expiry of the contracted period.
8. That all the electrical work done within the Applicant's premises including wiring, power outlets and gadgets are used and maintained properly for guarding against short circuits/fires and are as per the Indian Electricity Rules, 1956 and other applicable laws, statutory provisions and standards in force at the time, and indemnify Maha-Metro against any loss accrued to the Applicant on this account. Further, the Applicant agrees that if there is any harm/loss to the property of Maha-Metro or to any other third party due to fault in the electrical work, outlets or apparatus within the premises of the applicant, all the loss shall be borne by the Applicant.
9. To pay Maha-Metro all costs and expenses that Maha-Metro may incur by reason of a fresh service connection being given to the Applicant.
10. To indemnify Maha-Metro against all proceedings, claims, demands, costs, damages and expenses that Maha-Metro may incur by reason of a fresh service connection given to the Applicant.
11. That Maha-Metro shall not be responsible for any interruption/diminution of supply.
12. Licensee will have to provide a Low voltage switchboard with MCBs & ELCB's of required capacity with Electronics Static Energy Meters having provision of MDL, TOD etc. of required capacity at his cost conforming to relevant BIS standards and of L&T/Havells or similar make along with test certificate shall be arranged by the applicant The meter shall be installed and sealed by Maha-Metro, either within the premises of the applicant or at a common meter room/board. Applicant shall not tamper with or disturb the meter in any manner whatsoever and shall be responsible for its safety.

    Maha-Metro shall provide supply, if available, at one fixed point as per Maha-Metro plan. All cabling work to tap off the supply from the fixed point and to avail it within his premises shall be done by the applicant by carrying out GL conduit wiring cabling Licensee shall use FRLS copper cable, which will be taken inside a Gl rigid conduit pipe. The GI rigid conduit pipe shall be suitably clamped and earthed as per Maha-Metro's requirement. Approval to the layouts/ schemes/ details shall be taken from Maha-Metro O&M wing

    Licensee will also do wiring within his shop/stall/kiosk by using GI conduit or fire resistance PVC. The Licensee shall use FRIS copper wire of the required size (the wiring scheme, the type of wiring, size of wires, various loads, plug point, light, fan etc. shall be as per Maha-Metro's approval).

    Only FRLS cable of required size shall be used for tapping off supply from Maha-Metro fixed supply to licensee premises.

    Maha-Metro will provide Power Supply of single phase, 230V, 50Hz for a max. connected load up to 10kVA. Electrical load requirement exceeding 5 kVA will be given on 3-phase, 415V, 50Hz subject to availability.
    Licensee shall be given only normal power supply available in station premises. Licensee may use suitable voltage stabilizers and power factor correction equipment as per his requirement.

Maha-Metro shall not be providing any standby power supply from station DG set or UPS.

Licensee shall not be permitted to use any standby Diesel Generator Sets Licensee will only be the permitted to UPS/Invertor System with maintenance free battery, The Load of such standby UPS/Inverter system will also be taken as a part of total connected load.

The Total Demand Load & Total Connected load shall be treated as same Licensee will have to pay applicable demand charges as per the Total Connected load only.

Licensee shall use Energy efficient lighting & shall provide proper Lighting fixtures, Lamps, Electronic Ballast etc. Licensee shall provide uniform & good illumination level not less than 100 Lux .

Licensee shall use reputed Brand/make Electrical wiring and switch gear items. The entire work shall be carried by the Electrical Contractor/agency at Licensee's cost. Maha-Metro's representative may inspect and supervise the work.

Licensee shall provide proper Earthing connection as per the applicable standards and shall terminate the same to the Maha-Metro's Distribution Board or to any other place as directed by the Maha-Metro. Installation Test Report issued by licensed electrical wiring contractor in the prescribed format (available with the application form) and countersigned by the applicant shall be submitted by the Licensee.

The power shall be supplied normally at the rate of 0.5 KVA/sq. m. of space licensed out. Minimum load to be given shall be 2 KVA on which the demand charges as applicable shall be paid by the Licensee Additional power up to 5 KVA on single phase and thereafter on three phase system if required by the Licensee will be supplied subject to availability and technical feasibility at an additional cost and conditions to be stipulated by Maha-Metro.

In case, the Licensee is found mis-using Electricity or tampering with the Energy meter. a token penalty of Rs. 1000/- will be charged from him along with disconnection of power supply. Reconnection of power supply will be done only after charging Rs. 100/- as reconnection fee and clearance of all dues duly obtaining approval of Competent Authority of Maha-Metro.

13. that the Applicant shall have no objection at any time to the rights of Maha-Metro to supply energy to any other consumer from the service line or apparatus installed on the Applicant's premises

14. That the supply shall be used for the purpose that it has been sanctioned by Maha-Metro and shall not be misused in any way to serve any other purpose.

15. That the supply shall not be extended/sublet to any other premises.

16. That the Applicant's industry/trade has not been declared to be obnoxious, hazardous/pollutant by any Government agency and that no court orders are being infringed by grant of applied electricity connection at the Applicant's premises.

17. That Maha-Metro shall be at liberty to adjust the electricity consumption charges along with any other charges against the consumption deposit paid by the Applicant, in the

event of termination of the agreement prior to the expiry of the contracted period or in case of any contractual default.

18. That Maha-Metro shall be at liberty to transfer the dues remaining unpaid by the Applicant, after adjusting the advance consumption deposit, to other service connection(s) that may stand in the Applicant's name.

19. To allow clear and unencumbered access to the meters for the purpose of meter reading, maintenance. inspection, checking, testing, etc.

20. That Maha-Metro shall be entitled to disconnect the service connection under reference in the event of any default and/or non-compliance of statutory requirements and/or in consequence of a legally binding order by statutory authority(ies)/Court of Law, without prejudice to the Maha-Metro's rights to exercise its rights under law including that of getting its due payments as on the date of connection. The Applicant undertakes to pay penalty imposed by Maha-Metro on its own discretion for the damages caused to the leased property on account of any default or non-compliance of any statutory requirements.

21. That all details furnished in this Requisition form are true to the Applicant's knowledge. If any information is found incorrect at a later date, the company will have the right to withhold /disconnect supply, as the case may be, and forfeit the advance consumption deposit.

22. The applicant acknowledges and accepts that the relationship of the applicant with Maha-Metro is not that of a consumer and a licensee but that of a commercial arrangement where the applicant has taken on lease/license a premise of Maha-Metro and the Electricity connection is being provided as a part of the above arrangement.

The applicant further agrees that this declaration given by him will be construed as an agreement with the Maha-Metro to the above effect.

Date:

Place: Signature of Applicant
(Full name)

Signed and delivered in the presence of:

Witness 1
Signature_____
Full Name_____
Complete Address _____
Phone No._____

Witness 2
Signature_____
Full Name_____
Complete Address_____
Phone No._____

Annexure – 10.6E: Specifications for Electrical Works

1. Applicant is required to prepare all the plans/drawings for Electrical & Fire work to be carried by them and obtain prior approval of Maha-Metro before execution. The work is required to be executed as per IE rules and through a licensed Sub Contractor. All costs associated with provision of electricity will be borne solely by the Applicant. The Applicant hereby voluntarily and unequivocally agrees not to seek any claim, damages, compensation or any other consideration whatsoever on account of time and cost associated in making provision of electricity.

2. For Elevated station, load up to 10 KVA shall be given in single phase & in case of underground stations, load up to 5KVA shall be given. Above this, it shall only be given in three phases. License is required to balance load at his end so that no unbalancing occurs at Maha-Metro end.

3. Cables up to 6 Sq.mm will be of copper conductor and above 6 Sq.mm Aluminum conductors may be used. However in case of underground station, use of Aluminum conductor cable is not allowed. Cables for single phase shall be three cores, with one core as earth. For three phase load, four core cables along with separate 2 nos. of 8 SWG GI wires shall be used for earthing. For underground stations, 2 separate earth wire of 8 SWG copper conductors shall be used.

4. For elevated stations, all wires shall be FRLS. Cables shall be armoured, XLPE, FRLS. In case of Underground stations, all wires and cables shall be armoured, XLPE FRLSZH and conform to NFPA- 70, BS-6724 and BS6724.

5. The meter along with MCB & ELCB box will be metallic and without any holes. DP MCB & ELCB is required for single phase supply. TPN MCB and ELCB are required in case of three phases. ELCB, cables, MCB rating for main connection shall be as per prevailing electrical standards.

6. Use of any PVC material is not permitted in the underground stations.

7. Applicant will provide a separate protection for their electric requirement with proper discrimination with upstream breaker.

8. All materials specification must follow standards, codes and specification as used by Maha-Metro in the E&M works.

9. In case, the Applicant draws power more than the sanctioned load, electricity connection may be disconnected. The electricity connection will be restored on first occasion only when Applicant pays necessary penalty as per DERC norms and removes excess load.

10. Only Galvanized Cable tray, Conduit, Cable Ladder shall be allowed.

11. Internal wiring of luminaries (Light Fittings) and Signage's in signage's panel shall also be FRLSZH in case of UG stations.

12. All Plastic accessories used in luminaries shall be non-flammable material, meeting all the NFPA requirements, preferable by UV and shall be suitable for application at UG station conforming to UL
    - 94 standards on flammability of material.

Annexure- 10.6 F: Specification of Air Conditioner

Split type air conditioners conforming to IS:1391(Part-2)-1992 with amendment No.1 fitted with hermetically sealed air compressor operating on refrigerant R-22 suitable for wall mounting and conforming to following specifications. Spit AC shall be preferably five stars rated. Approved makes are Hitachi / O-general / Daikin / Carrier.

General Technical Requirements

1. Air conditioners shall be suitable for 230V, 50 Hz single phase AC supply, capable of performing the functions as Cooling, Dehumidifying, Air circulating and Filtering.

2. The air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor (as applicable), compressor unit operating on Refrigerant with suitable rated capacitor start electric motor. It shall be equipped with overload protection. These shall be mounted on resilient mountings for quiet operation. The compressor shall conform to IS:10617 part (1)-1983 (amendment 1 & 2). Rotary compressor shall be covered by manufacturers test certificate.

3. The air conditioners shall be complete with automatic temperature control and cut - in and cut-out etc. for temperature range 16 degrees to 30 deg. C. The differential of the thermostat for cut-in and cut-out shall not be greater than +/- 1.75 deg. C. The Air conditioners may either be provided with adjustable step less type mechanical thermostat or electronic thermostat as per IS:11338:1985.

4. The filter pads provided shall be washable.

5. The cabinet of the evaporator unit and condensing unit shall be made from galvanized steel sheet of 1.0mm thick with galvanized coating thickness of 120 gm / sq. mtr and shall be provided with stiffness for robust construction and shall have rounded corners, steel parts/front panel etc. shall have stove- enamelled finish preceded by undercoat of anti- corrosive primer paint phosphating and through cleaning of the surface. Alternate methods of corrosion protection like plastic powder coating, electrostatic paintings are also acceptable in lieu of stove enamelled finish.

6. Overall power factor of the unit shall be at least 0.85 at capacity rating test conditions.

7. Maximum power consumption of the split air conditioners shall be at capacity rating test conditions.

8. Galvanized sheet shall conform to IS:277/2003.

9. Standard evaluation of cooling capacity shall be done by connecting indoor and outdoor units with piping of 5 mtrs length with six bends of standard radius. Connecting copper tubing shall have dimensions suitable for the compressors offered with model.

10. Inbuilt protection in IDU against electrical faults shall be provided. Compressor current shall not flow through Indoor units.

11. The indoor units made of ABS/HIPS shall be of flame retardant and impact resistant life. ABS/HIPS indoor unit cabinet shall pass inflammability test requirement for Grade V-O as per UL-94. For impact resistance the unit duly packed, when dropped from a height of 1 Mtr. shall show no damage.

12. Display shall be LED/LCD and provided on indoor unit or on Handset or on both. These displays shall be selectable.

13. Remote control (Cordless) shall be provided with one On/Off timer, selecting Fan speed (Three speeds) and setting up of temperature.

14. Installation of pipes, Insulation and cables beyond 6Mtrs, if required:
    i. Suction line copper pipe of 0.70mm thickness.
    ii. Liquid line copper pipe of 0.70mm thickness.
    iii. Expanded polyethylene foam or other suitable insulation tubing for suction line copper pipe.
    iv. Drainpipe (15mm die flexible PVC pipe).
    v. Suitable capacity 2 core PVC insulated copper wire 2.5mm to electrically connect both the units with each other.

15. Installation: Location of ODU is to be finalized after approval from Maha-Metro. The installation at site shall comprise the following work:
    i. Mounting/Fitting indoor & outdoor units at the respective locations.
    ii. (Laying refrigerant piping and connecting both the units after drilling hole/holes in the wall, if required. The thickness of the copper tubing shall not be less than 0.70mm.
    iii. Insulating the suction pipe with expanded polyethylene foam 5mm tubing or other suitable.
    iv. Laying 15mm drainpipe to throw out the condensate water being formed in the indoor unit and connecting it to station drain.
    v. Leak testing the entire system.
    vi. Charging Refrigerant gas in the unit.
    vii. Suitable electric wiring between indoor and outdoor, upto switch AT location of indoor unit. Switch/Socket/Plug is also included.

Annexure-10.6 G: Fire Safety Requirements

Kiosks: This category includes ATMs, Retails Outlet provided as bare space for a maximum area of 100 Sq m. Under this category, only fire Extinguishers are required is detailed in below in Table -1.

Table - 1

TYPE & SPECIFICATAION: BIS approved stored pressure extinguisher as per IS 15683:2006 and of type 'A', 'BC' or 'ABC' conforming to risk protection as per IS 2190:1992. (Kg and Litres can be converted in same ratio i. e. 5Kg = 9 Litres) Extinguishing medium inside extinguishers must be of their respective approved IS specification and of capacity: -		
AREA		
Up to 10 Sq. m.	Above 10Sq. m. and below 50 Sq. m.	Above 50 Sq. m. and below 100 Sq. m.
One Fire Extinguisher of 2 KG capacity	One Fire extinguisher of 4 KG capacity	Two Fire extinguishers, one of 5 KG and another of 9 Litres Water Type

The existing shops up to an area of 250 Sq. m. are integrated design part of a Metro Station. In addition to other Fire Safety measures each shop is to be provided with Fire Extinguisher as per Table -1.

For Shops of area above 100 Sq. m. and less than 250 Sq. m., fire Extinguishers of capacity 10 KG and another of 18 Liters Water, these should be distributed in at least four units at two places remote to each other.

For bigger spaces, Applicant is required to obtain details of recommended suppression and detection system from Maha-Metro in the beginning.

Annexure-11: Undertaking for Non-Banned Business with Government

"As on date of tender submission (i) Maha-Metro/MOHUA/Maharashtra Government have not banned business with us or (ii) Any central/state government department/PSU /other Government entity or local body have not banned business with us which is applicable to all ministries (approved by the committee of economic secretaries Ministry of Commerce)".

STAMP & SIGNATURE OF

AUTHORISED SIGNATORY

Note:

1. In case of JV/Consortium, the undertaking shall be submitted by each member of the JV/Consortium
2. The undertaking shall be signed by authorised signatory of the tenderer or constituent member in case of JV/Consortium.

Annexure – 12

Undertaking for Downloaded Tender Document

On Letterhead of Bidder/Lead Member

Bid Document No.: P1TL-02/2022 **Dated:**

Name of Project: Bid for "Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP)."

We here by confirm that, we have downloaded / read the complete set of Tender documents /addendum/clarifications along with the set of enclosures hosted on e-Tendering portal…….. We confirm that we have gone through the bid documents, addendums and clarifications for this work placed up to the date of opening of bids on the e-Tendering portal ……. We confirm our unconditional acceptance for the same and have considered for these in the submission of our financial bid. We/I hereby give our acceptance to all the terms and conditions of the bid document as well as the draft licensee agreement.

Bidder Name _____
Name_____
Signature_____ Date: _____
Postal Address _____
E-Mail ID _____
Phone _____ FAX _____

Annexure – 13 Format of Pre-Bid Queries

Name of the Bidder:

SN	Clause No.	Bid Condition	Bidder's Queries
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

SIGNATURE OF THE BIDDER

Annexure – 14

Technical Eligibility Criteria & Work Experience

Tenderer's legal name …….…….……..

Participation in Tender..... (Sole bidder or JV/Consortium)

Name of Lead Member..... (In case of JV/Consortium, NA for Sole bidder)

S. No.	Particulars	Yes / No / Remarks (if any)	Reference Page Nos. on which documentary proof is enclosed
1.	Whether bidder is registered with Department of Telecommunications, Government of India as authorized Infrastructure provider in IP-1 category or not? (Copy of valid DoT/IP-1 License is required to be submitted. In case of JV/Consortium, the above needs to be fulfilled by the lead member)		
2.	Whether bidder has executed In-Building Solution (IBS) works for providing shared Mobile Coverage Solution for atleast 1 No. of Metro Rail Network/ Airports/Multistoried Buildings/ Malls or Tunnels for GSM/CDMA/Wi-Fi/VoLTE operators or not? (Experience certificate duly issued by client to be submitted)		
3.	Whether agency engaged in installation of IBS has minimum experience of one year in managing In-Building Solutions (IBS) for providing shared Mobile coverage solutions for various types of telecom operators like GSM/CDMA/Wi-Fi/VoLTE in public areas after installation or not. (Experience certificate duly issued by client to be submitted)		
4.	Whether Pre-submission signed-off document/ Letter of Intent (LOI) by at least two (2) leading mobile operators with the bidding IP1 on acceptability of Design & Technical solution submitted or not? (Pre-submission signed-off document/ Letter of Intent (LOI) to be submitted)		
5.	Brief description of the project: (for which work experience certificate is submitted by bidder)		

NOTES:

1. Separate sheet for each work experience details as per below along with client's certificate to be

submitted.

Work experience

Applicant's legal name …… Date……..
Group Member's legal name…… Page …….. of …….. pages For

similar works as per clause no. 4.2.1

Work Experience		
Contract Number	Information	
Contract Identification		
Award date Completion date		
Employer's Name		
Employer's Address: Telephone / Fax number: E Mail		
Role in Contract (Individual/JV member)	Individual	JV Member
Completion Cost	Currencies (as stated in Clients Certificate)	In equivalent INR at 31.03.2022 price level
If JV member, specify percentage participation in contract & amount (Please refer Note-1)	% participation	In equivalent INR
Quantum of similar work in support of clause no. 4.2.1		In case of JV, actual works executed by the Applicant **(duly substantiated with Client Certificate)**

NOTE: 1. Only the value of contract as executed by the applicant/member in his own name should be indicated. Where a work is undertaken by a group, JV only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.

2. Separate sheet for each work along with Clients Certificate and performance certificate six months in operation after the completion of work, to be submitted.

Financial Eligibility of the Bidder

Tender No.: …… **Dated:**

Sub: Bid for "_____."

(In INR)

Name of Bidder	**Turnover of Bidder**		
	FY (2019-20)	**FY (2020-21)**	**FY (2021-22)**
Turnover of the Year			
Aggregate Turnover for last three financial years			
Average Annual Turnover for last three financial years			

Name of Bidder	**Networth of the Bidder**
	FY (2021-22)
Networth	

(Signature of the Authorised Signatory)
(Name and designation of the Authorised Signatory)
(Name of the Bidder)

Certified by Statutory Auditor:

I/We, in our capacity as the Statutory Auditor have verified the relevant statutory and other records of M/s _____ [Name of Bidder] and certify that the above details in this Bid Form are correct.

(Signature of the Statutory Auditor)
(Name and seal of the Statutory Auditor)

Instructions:

1. *The Bidder should provide details of its own Financial Capability as specified in Clause 4.2.2*
2. *The Bidder shall attach copies of the balance sheets, Profit and Loss Accounts, financial statements for 3 (three) years immediately preceding the Bid Due Date. The financial statements shall:*
   (a) Reflect the financial situation of the Bidder.
   (b) Be certified/audited by a Statutory Auditor/Chartered Accountant.
   (c) be complete, including all notes to the financial statements; and

(d) Correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

3. *The format is being provided for illustrative and information purposes only. It is the Bidder's sole responsibility to ensure that the information and calculations provided in the forms are accurate and complete.*
4. *In case this Bid Form consists of more than one-page, Statutory Auditor Authorised Signatory shall sign and seal on all pages.*

Annexure – 15

FINANCIAL BID FORM

(To be submitted online)

1. Name of the Bid/RFP:

2. Tender No.:

3. Initial tenure of License: Nine (9) years

I/we hereby offer the following rate of monthly license fee in Rupees for licensing of space for GSM/CDMA room at stations required for Placement and operation of Telecommunication Equipment for In-Building solutions (IBS) for providing shared Mobile (Cellular) coverage (2G/3G/4G/5G) in Tunnel & Underground section/station, payable to Maha-Metro as specified in Bid/RFP Document.

S. N.	Underground Station Name	Monthly License Fee (in INR) (Exclusive of GST)	
		In Figures	In Words
1	Shivajinagar		
2	Civil Court		
3	Budhwar Peth		
4	Mandai		
5	Swargate		
6	Total Sum		

Note:

i. Above license fee for GSM/CDMA room is for approx. size of 10 sqm room per station. In case, if actual handed over space is more than 15% (1.15 times) of 10 sqm, then license Fee will be increased on pro rata basis for actual handed over area of the room at respective stations.

ii. All other charges as per para 6.8 of the bid document will also be applicable and payable over and above the quoted rates for five stations.

iii. It is mandatory to quote for all the five stations by a bidder or else offer will be summarily rejected.

iv. *If there is any discrepancy between words & figures, the amount in words shall prevail.*

v. *Bidder is required to quote his price in the financial bid as per above table. Work shall be awarded to the Bidder quoting highest (H1) quote of total sum for 5 stations (Sl. no. 6 in above Table).*

(Signature of the Authorised Signatory & Stamp)
(Name and designation of the Authorised Signatory)
(Name of the Bidder)

Annexure - 16
Form of Bid Security

Beneficiary: _____

Invitation for Bids No: _____

Date: _____

BID GUARANTEE No.: _____

Guarantor: _____

We have been informed that _____ (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its bid (hereinafter called "the Bid") for the execution of _____ under Invitation for Bids No. _____(“the IFB”).

Furthermore, we understand that, according to the Beneficiary’s conditions, bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary’s first demand, supported by the Beneficiary’s statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Bid during the period of bid validity set forth in the Applicant’s Letter of Bid (“the Bid Validity Period”), or any extension thereto provided by the Applicant; or

(b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the bidding document.

This guarantee will expire: (a) if the Applicant is the successful bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such contract agreement; or (b) if the Applicant is not the successful bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary’s notification to the Applicant of the results of the bidding process; or (ii) Twenty Eight days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

Annexure- A

Circulars related to

A) Make in India

B) Registration of bidders from countries which shares land border with India

F. No. K-14011/10/2020 -UT-V
Government of India
Ministry of Housing and Urban Affairs
Urban Transport Division
(UT-V Desk)

311-B, Nirman Bhawan, New Delhi.
Dated the 14th September, 2020.

To,

MD's of all the Metro Rail Corporations (as per the list attached).

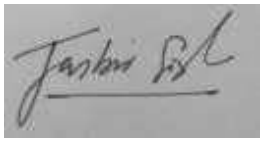
Subject: Mode of submission of application for registration of bidders having beneficial ownership from countries sharing land border with India – regarding.

Sir/Madam,

I am directed to refer to OM dated 04.09.2020 from Department for Promotion of Industry and Internal Trade (DPIIT) and this Ministry's letter dated 14.08.2020 (as enclosed) on the above cited subject for information/ necessary action.

Encl : As above.

Yours Sincerely,



(Jasbir Singh)
Under Secretary to the Govt. of India
Tel: 011-23062285

List of Metro Rail Corporations:

1.	The Managing Director, Delhi Metro Rail Corporation Ltd., Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110 001. Email: mdmetro@dmrc.org	2.	The Managing Director, Chennai Metro Rail Ltd., Admn. Building, Poonamallee High Road, Koyambedu, Chennai-600107. Email: md.cmrl@tn.gov.in mdcmrl2010@gmail.com
3.	The Managing Director, Mumbai Metro Rail Corpn. Ltd., Bandra Kurla Complex, Bandra (East), Mumbai-400051. Email: md.office@mmrcl.com	4.	The Managing Director, Bangalore Metro Rail Corpn. Ltd., 3rd Floor, BMTC Complex, K.H. Road, Shanthinagar, Bangalore-560 027. Email: md@bmrc.co.in
5.	The Managing Director, Noida Metro Rail Corporation Limited, Block-III, 3rd Floor, Ganga Shopping Complex, Sector – 29, Noida - 201301 E.mail: nmrcnoida@gmail.com	6.	The Managing Director, Lucknow Metro Rail Corpn. Ltd., (for Lucknow, Kanpur and Agra Metros) Administrative Building, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal, Vipin Khand, Gomti Nagar, Lucknow-226 010. Email: mdlucknowmetro@gmail.com
7.	The Managing Director, National Capital Region Transport Corporation Ltd. (NCRTC), Siri Fort Institutional Area, August Kranti Marg, New Delhi-110 049 E.mail: md.office@ncrtc.in	8.	The Managing Director, Kochi Metro Rail Ltd., 8th Floor, Revenue Tower, Park Avenue, Kochi-682 011 Email: md@kmrl.co.in
9.	The Managing Director, Gujarat Metro Rail Corporation Limited, (for Ahmedabad, Gandhinagar and Surat Metros) Block No.1, 1st Floor, Karma Yogi Bhavan, Sector-10A, Gandhinagar-382 010. Email: md@gujaratmetrorail.com	10.	The Managing Director, Maha- Metro Rail Corporation, (for Nagpur and Pune Metros) "Metro House", 28/2, C.K. Naidu Road, Anand Nagar, Civil Lines, Nagpur-440 001. Email: md@mahametro.org
11	The Metropolitan Commissioner, Mumbai Metropolitan Regional Development Authority (MMRDA) Bandra-Kurla Complex, Bandra East, Mumbai-400 051. Email: mcmmrda@gmail.com	12	The Managing Director, Hyderabad Metro Rail Ltd., Rasoopura, Begumpet, Hyderabad – 500 016 Email: nvsreddyiras@gmail.com
13	The Managing Director, Madhya Pradesh Metro Rail Company Ltd., (for Bhopal and Indore Metros) Palika Bhavan,, Near 6 number Bus Stop Shivaji Nagar, Bhopal – 462016 Email: psuaddmp@mpurban.gov.in	14	The Managing Director, Patna Metro Rail Corporation Limited, Patna, Bihar Email: ud.bihar@gmail.com

No.P-45021/112/2020-PP (BE-II) (E-43780)
Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
(Public Procurement Section)

Udyog Bhawan, New Delhi
Dated September 04, 2020

OFFICE MEMORANDUM

Subject: Mode of submission of application for registration of bidders having beneficial ownership from countries sharing land border with India – regarding.

The undersigned is directed to refer to this Department OM of even number dated 28.08.2020 (copy enclosed) on the above mentioned subject and inform that further to the requirements prescribed in OM dated 28.08.2020, applicants are required to submit the registration application in the prescribed format in seven hard copies (instead of four copies prescribed in OM dated 28.08.2020) along with a soft copy in pdf format to email Id dpiit.144@gov.in.

2. This issues with the approval of competent authority.

Encl: As above

(D.V.S.P. Varma)
Under Secretary to Govt. of India
Email: dvsp.varma@nic.in

To

1. All Ministries/ Departments of Government of India
2. All Industry Associations

No.P-45021/112/2020-PP(BE-II)(E-43780)
Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
(Public Procurement Section)

Udyog Bhawan, New Delhi
Dated August 28, 2020

OFFICE MEMORANDUM

Subject: Format for registration of bidders from countries which shares land border with India – mode of submission of application for registration along with Appendix 'A' and Appendix 'B' – regarding.

The undersigned is directed to refer to this Department's OM of even number dated 24.08.2020 (copy attached) on the above mentioned subject and inform that applicants are required to submit the registration application in the format as prescribed in above referred OM along with a covering letter in the format enclosed herewith.

2 The application may be submitted in four hard copies in the Office of Joint Secretary (MKN), DPIIT, Room No. 236A, Udyog Bhawan, New Delhi. A soft copy in pdf format may also be sent to email Id dpiit.144@gov.in

3. This issues with the approval of competent authority.

Encl: As above

(D.V.S.P. Varma)
Under Secretary to Govt. of India
Email: dvsp.varma@nic.in

To

1. All Ministries/ Departments of Government of India
2. All Industry Associations

Covering Letter Format

To

The Office of JS(MKN)
Chairman Registration Committee
Room No. 236A, Udyog Bhawan, New Delhi

Subject: Application for registration of bidders having beneficial ownership in countries which share land border with India in accordance with Department of Expenditure Order no. F. No. 6/18/2019-PPD dated 23.07.2020 and DPIIT OM No.P-45021/112/2020-PP(BE-II)(E-43780) dated 24.08.2020 - regarding.

We, M/s _____ (Name of the Bidder), hereby submit an application for registration of our Company in accordance with Department of Expenditure Order No. F. No. 6/18/2019-PPD dated 23.07.2020 and DPIIT OM No.P-45021/112/2020-PP(BE-II)(E-43780) dated 24.08.2020 through its authorized signatory.

2. We confirm that the application complete in all regards, and duly signed by authorised signatory on all pages, is being submitted in four hard copies. We also confirm that a soft copy in pdf format has been emailed to dpiit.144@gov.in . We understand that incomplete application will not be processed and summarily ignored.

3. We also confirm that we, M/s _____ (Name of the Bidder), and M/s ……..(Name of Manufacturer/ Service provider/ Contractor, if different from bidder) are not currently debarred/blacklisted/banned by any Government entity in India.

4. We also confirm that signatory of this letter & application form is the authorised signatory of the _____ (Name of the Bidder). A copy of authorisation letter is enclosed.

(Name and Signature of
authorised signatory of bidder along with
telephone number and email Id)

No.P-45021/112/2020-PP(BE-II)(E-43780)
Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
(Public Procurement Section)

Udyog Bhawan, New Delhi
Dated August 24, 2020

OFFICE MEMORANDUM

Subject: Format for registration of bidders from countries which shares land border with India – regarding

The undersigned is directed to refer Department of Expenditure Order (Public Procurement No. 1) dated 23.07.2020 mandating that bidders having beneficial ownership in countries which share land border with India will be eligible to bid in public procurement, only if they are registered with the competent authority. Accordingly, the bidders, who have beneficial ownership in countries which share land border with India and intend to participate in public procurement in India, may submit application for "Registration" in the format enclosed as Appendix "A". Bidders are also required to submit application for "Security Clearance" in the format enclosed as Appendix "B". Complete application containing both "Registration" and "Security Clearance" formats, duly filled in, may be submitted in the Office of Joint Secretary (MKN), DPIIT, Room No. 236A, Udyog Bhawan, New Delhi.

2. The validity period of the registration shall be 12 months from the date of issue of registration letter. However, in case of appointment of new Director(s)/ new shareholders with more than 10% shares/ change in controlling ownership interest or control through other means, the registration shall stand cancelled. In such cases, bidders will be required to apply for a fresh registration. The list of bidders who have been registered with competent authority shall be displayed on the website of DPIIT.

3. The registration granted by this Department shall be only for the purpose of bid participation under Rule 144(xi) of General Financial Rules, 2017.

4. This issues with the approval of competent authority.

Encl: As above

(D.V.S.P. Varma)
Under Secretary to Govt. of India
Email: dvsp.varma@nic.in

To

1. All Ministries/ Departments of Government of India
2. All Industry Associations

Appendix-A

Format for bidder registration under Rule 144(xi) of GFR

Name of Bidder - as defined in the Department of Expenditure Order (Public Procurement No. 1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020	
Type of business entity (Natural Person/ Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership firm/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO/or any other type of entity) In case of incorporated entity - to attach certificate of incorporation.	
Beneficial owners - as defined in the Department of Expenditure Order (Public Procurement No. 1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020 Details of all beneficial owners having ownership more than that prescribed in Para 9 of Department of Expenditure Order (Public Procurement No. 1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020 may be furnished in the format as given in Annexure -I duly certified by practicing Chartered Account in India.	
Complete **address of the Registered Office** with contact person name, telephone number and email Id.	
Whether registration is being sought as a. Manufacturer/ service provider/ contractor for supply of goods/ services / works or b. As an **agent/reseller/distributor/member of consortium/ Branch Office/ Office Controlled by bidder/any subsidy of any artificial juridical person**/ any other type of category)	

Bidder to give details in which category – registration is being sought.	
In case registration is being sought as an**agent/reseller/distributor/Office controlled by bidder/ any other subsidy of any artificial juridical person /any other category other than manufacturers , service provider and contractor** of above - the **details of manufacturer/ service provider/ contractor** may be furnished in Annexure-II.	
The **details of items (**goods/ services / works**)** for which registration is sought as per Annexure –III	
Financial details in INR/ US Dollar for last five financial years as per Annexure –IV duly certified by practicing Chartered Account in India.	

Note: The terminology "Works" in the entire document means "Works including turnkey works/ projects". Similarly, the terminology "Services" means "Consultancy as well as non-consultancy services".

Annexure-I

Details of beneficial ownership of M/s …….(Name of the bidder)

		Beneficial owner details		
Name of the beneficial owner	**% beneficial ownership**	**Natural person or legal/ artificial juridical person/ entity**	**Country of Citizenship / Country of incorporation of legal/ artificial juridical person/ entity.**	**In case of legal/ artificial juridical person/ entity, beneficial ownership details of such entities may be furnished and so on.**

Annexure-II

Details of manufacturer/ service provider/ contractor

Name of manufacturer/ service provider/ contractor	
Type of business entity (Natural Person/ Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership firm/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO/or any other type of entity) In case of incorporated entity - to attach certificate of incorporation.	
Beneficial owners - as defined in the Department of Expenditure Order (Public Procurement No. 1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020 Details of all beneficial owners having ownership more than that prescribed in Para 9 of Department of Expenditure Order (Public Procurement No. 1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020 may be furnished in the format as given in Annexure -I duly certified by practicing Chartered Account in India.	
Complete **address of the Registered Office of manufacturer/ service provider/ contractor** with contact person name, telephone number and email Id.	
In case of manufacturer, complete address of the**manufacturing premises** with name, telephone number and email Id of contact person.	
In case of service provider/ contractor, **complete address of the premises from where services** are provided may be given with name, telephone number and email Id of contact person.	
The **details of items (**goods/ services / works**)** for which registration is sought as per Annexure –III	
Financial details in INR/USD for last five financial years as per Annexure –IV duly certified by practicing Chartered Account in India.	

Annexure-III

Details of item (goods/ services / works) for which registration is sought

Description of items (goods/ services / works) for which registration is being sought.	
Broad technical specification parameters/ details of items	
Annual Capacity of bidder for each of the goods/ services / works for which registration is being sought.	
Major public procuring entities in India for these items	
Details of contracts received in last 05 years for these items from public procuring entities in India in the format given in Annexure-V	
Details of contracts received in last 05 years for these item from private sector in India in the format given in Annexure-VI	
Details of outsourced components/goods and subcontracted works and services proposed to be used in execution of contract may be provided in the format given in Annexure –VII.	

Note:-

1. Bidder can seek registration for multiple items in an application by providing requisite details for each of the item for which registration is being sought.
2. Registration will be valid for a period of one year from the date of issue.
3. If there is change in the beneficial ownership of the bidder/ manufacturer/ contractor/service provider – this registration shall automatically stand annulled. Fresh registration need to be filed in such cases.

Annexure-IV

Financial details in INR/ US Dollar for last five financial years duly certified by practicing Chartered Account in India.

Financial year (FY)	Net Sales turnover during the FY	Net Profit during the FY	Net worth at the end of the FY

Annexure-V

Details of contracts received in last 05 years from public procuring entities in India

Sr. No.	Description ofgoods/ services / works with broad technical parameters	Procuring entity details – Name and complete address of the Organization.	Purchase Order Qty and value	Status of the Order – Executed successfully/ under execution/ cancelled

Note: The details are required to be furnished only for those goods/ services / works for which registration is being sought.

Annexure-VI

Details of contracts received in last 05 years from private sector in India

Sr. No.	Description ofgoods/ services / works with broad technical parameters	Procuring entity details – Name and complete address of the Organization.	Purchase Order Qty and value	Status of the Order – Executed successfully/ under execution/ cancelled

Note: The details are required to be furnished only for those goods/ services / works for which registration is being sought.

Annexure-VII

Details of outsourced components/goods and subcontracted works and services proposed to be used in execution of contract

Sr. No.	Details of outsourced components/goods and subcontracted works and services	Major technical parameters	Manufactured by /Subcontracted to	Country of Origin

*The details are required to be furnished for top 20 high value outsourced components/goods and subcontracted works and services.

Appendix-B

Proforma for application for security clearance for registration of bidders from countries which share land border with India

I. Details in respect of bidding company / person:

Sl. No.	Name of the company / person	Type of company (Pvt. Ltd. / Pub. Ltd. / sole proprietorship / one person company / partnership / LLP / JV / Trust / NGO etc.)	Country of registration in case of company / nationality (if holding multiple nationality, all must be mentioned) in case of person	Registration number with date in case of company / passport nos. and issue date in case of person	Registered office address and correspondence address in case of company / Contact Address in case of person	Previous name of the company, if any	Details of earlier registration, if any (ref. no. & date)

II. Details of beneficial ownership of entity:

Sl. No.	Name of the company/individuals which/who are the beneficial owner of bidding company	Country of registration, registration number with date in case beneficial owner is a company / nationality, passport nos. and issue date (if holding multiple nationality, all must be mentioned) in case beneficial owner is an individual	Registered office address in case of company and correspondence address / contact address in case of individual	Details of intermediary company(s) / persons between bidder company or person and beneficial owner company / individual	Enclose a chart depicting the link between bidding company / person and the beneficial company / owners along with details such as address, parentage, passport details (in case of individuals) or company registration details (in case of companies)

III. **Details in respect of Directors of bidding company**:

Sl. No.	Full Name of Board of Directors	Present position held with date (since when)	Date of birth	Parentage (name of father / mother)	Present & Permanent Address	Nationality (if holding multiple nationality, all must be mentioned)	Passport Nos. and issue date, if any	Contact Address & telephone number

IV. **Details of shareholders of bidding company (all companies/entities/individuals with more than 10% shares or having controlling ownership interest or exercising control through other means in case of less than 10% shares):**

Sl. No.	Full Name of individual / company	Parentage (name of father / mother) in case of individuals, and registration number in case of companies	Permanent address / present address in case of individuals, and registered and correspondence address in case of companies	Present position held, in any, in the applicant company	Nationality, in case of individual (if holding multiple nationality, all must be mentioned) / country of registration, in case of company	Passport Nos. and date of issue, if any (date of birth, in case passport is not available) for individuals	% of shares held in the company

V. **Details of tender(s) and specific goods / services / works proposed to be supplied:**

VI. **Reasons for seeking registration with Registration Committee of DPIIT:** A brief note be attached

VII. **Details of nature of activities undertaken by bidding company / person:** A brief note be attached.

VIII. **Details of nature of activities undertaken by beneficial owner of bidding company / person:** A brief note be attached.

IX. Details of criminal cases, if any, against the bidding company, its director(s) or person as per annexure

Self-declaration for bidding company and its director(s) / owners or person

a. Name & address and registration number of the company :

b. Name and address of owners (in case of proprietorship firm) / directors of the company / person :

1. _____
2. _____
3. _____
4. _____

c. Are the company owners (in case of proprietorship firm) / directors / person listed above, are the subject of any?

1. Preventive detention proceedings under Public Safety Act / National Security Act etc. : Yes / No
2. Criminal investigation in which chargesheet has been filed : Yes / No

d. If, Yes, please provide following details

1. Case / FIR number :
2. Detention / warrant number, if any, :
3. Police station / district / agency :
4. Sections of law under which case(s) has / have been filed :
5. Name and place of the court :

e. The above mentioned details are in respect of both India and any other foreign country.

(Signature)

Note: The above self-declaration is required to be filled and signed by the authorized signatory of the company.

F. No. K-14011/10/2020 -UT-V
Government of India
Ministry of Housing and Urban Affairs
Urban Transport Division
(UT-V Desk)

311-B, Nirman Bhawan, New Delhi.
Dated the 14th August, 2020.

To,

MD's of all the Metro Rail Corporations (as per the list attached).

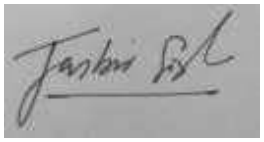
Subject: Request for details regarding Public Procurement in Metro Rail/RRTS Corporations.

Sir/Madam,

I am directed to refer to Department of Expenditure, Ministry of Finance OM dated 23.07.2020 (as enclosed) and to request that the requisite details /comments on Annexure-A and Annexure-B (copies enclosed) regarding public procurements w.r.t. your respective Metro Rail/RRTS projects may be furnished to this Ministry positively by 19.08.2020 2 pm.

Encl : As above.

Yours Sincerely,



(Jasbir Singh)
Under Secretary to the Govt. of India
Tel: 011-23062285

List of Metro Rail Corporations:

1.	The Managing Director, Delhi Metro Rail Corporation Ltd., Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110 001. Email: mdmetro@dmrc.org	2.	The Managing Director, Chennai Metro Rail Ltd., Admn. Building, Poonamallee High Road, Koyambedu, Chennai-600107. Email: md.cmrl@tn.gov.in mdcmrl2010@gmail.com
3.	The Managing Director, Mumbai Metro Rail Corpn. Ltd., Bandra Kurla Complex, Bandra (East), Mumbai-400051. Email: md.office@mmrcl.com	4.	The Managing Director, Bangalore Metro Rail Corpn. Ltd., 3rd Floor, BMTC Complex, K.H. Road, Shanthinagar, Bangalore-560 027. Email: md@bmrc.co.in
5.	The Managing Director, Noida Metro Rail Corporation Limited, Block-III, 3rd Floor, Ganga Shopping Complex, Sector – 29, Noida - 201301 E.mail: nmrcnoida@gmail.com	6.	The Managing Director, Lucknow Metro Rail Corpn. Ltd., (for Lucknow, Kanpur and Agra Metros) Administrative Building, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal, Vipin Khand, Gomti Nagar, Lucknow-226 010. Email: mdlucknowmetro@gmail.com
7.	The Managing Director, National Capital Region Transport Corporation Ltd. (NCRTC), Siri Fort Institutional Area, August Kranti Marg, New Delhi-110 049 E.mail: md.office@ncrtc.in	8.	The Managing Director, Kochi Metro Rail Ltd., 8th Floor, Revenue Tower, Park Avenue, Kochi-682 011 Email: md@kmrl.co.in
9.	The Managing Director, Gujarat Metro Rail Corporation Limited, (for Ahmedabad, Gandhinagar and Surat Metros) Block No.1, 1st Floor, Karma Yogi Bhavan, Sector-10A, Gandhinagar-382 010. Email: md@gujaratmetrorail.com	10.	The Managing Director, Maha- Metro Rail Corporation, (for Nagpur and Pune Metros) "Metro House", 28/2, C.K. Naidu Road, Anand Nagar, Civil Lines, Nagpur-440 001. Email: md@mahametro.org
11	The Metropolitan Commissioner, Mumbai Metropolitan Regional Development Authority (MMRDA) Bandra-Kurla Complex, Bandra East, Mumbai-400 051. Email: mcmmrda@gmail.com	12	The Managing Director, Hyderabad Metro Rail Ltd., Rasoopura, Begumpet, Hyderabad – 500 016 Email: nvsreddyiras@gmail.com
13	The Managing Director, Madhya Pradesh Metro Rail Company Ltd., (for Bhopal and Indore Metros) Palika Bhavan,, Near 6 number Bus Stop Shivaji Nagar, Bhopal – 462016 Email: psuaddmp@mpurban.gov.in	14	The Managing Director, Patna Metro Rail Corporation Limited, Patna, Bihar Email: ud.bihar@gmail.com

F.No.6/18/2019-PPD
Ministry of Finance
Department of Expenditure
Public Procurement Division

161, North Block,
New Delhi
23rd July, 2020

Office Memorandum

Subject: Insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017

Rule 144 of the General Financial Rules 2017 entitled 'Fundamental principles of public buying', has been amended by inserting sub-rule (xi) as under:

Notwithstanding anything contained in these Rules, Department of Expenditure may, by order in writing, impose restrictions, including prior registration and/or screening, on procurement from bidders from a country or countries, or a class of countries, on grounds of defence of India, or matters directly or indirectly related thereto including national security; no procurement shall be made in violation of such restrictions.

(Sanjay Prasad)
Joint Secretary (PPD)
Email ID: js.pfc2.doe@gov.in
Telephone: 011-23093882

To,
(1) Secretaries of All Ministries/ Departments of Government of India
(2) Chief Secretaries/ Administrators of Union Territories/ National Capital Territory of Delhi

F.No.6/18/2019-PPD
Ministry of Finance
Department of Expenditure
Public Procurement Division

161, North Block,
New Delhi
23rd July, 2020

Order (Public Procurement No. 1)

Subject: Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

Attention is invited to this office OM no. 6/18/2019-PPD dated 23rd July 2020 inserting Rule 144 (xi) in GFRs 2017. In this regard, the following is hereby ordered under Rule 144 (xi) on the grounds stated therein:

Requirement of registration

1. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority, specified in **Annex I.**

2. This Order shall not apply to (i) cases where orders have been placed or contract has been concluded or letter/notice of award/ acceptance (LoA) has been issued on or before the date of this order; and (ii) cases falling under **Annex II**.

Transitional cases

3. Tenders where no contract has been concluded or no LoA has been issued so far shall be handled in the following manner: -

   a) *In tenders which are yet to be opened, or where evaluation of technical bid or the first exclusionary qualificatory stage (i.e. the first stage at which the qualifications of tenderers are evaluated and unqualified bidders are excluded) has not been completed*: No contracts shall be placed on bidders from such countries. Tenders received from bidders from such countries shall be dealt with as if they are non-compliant with the tender conditions and the tender shall be processed accordingly.

   b) *If the tendering process has crossed the first exclusionary qualificatory stage*: If the qualified bidders include bidders from such countries, the

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entire process shall be scrapped and initiated *de novo*. The *de novo* process shall adhere to the conditions prescribed in this Order.

c) As far as practicable, and in cases of doubt about whether a bidder falls under paragraph 1, a certificate shall be obtained from the bidder whose bid is proposed to be considered or accepted, in terms of paras 8, 9 and 10 read with para 1 of this Order.

Incorporation in tender conditions

4. In tenders to be issued after the date of this order, the provisions of paragraph 1 and of other relevant provisions of this Order shall be incorporated in the tender conditions.

Applicability

5. Apart from Ministries / Departments, attached and subordinate bodies, notwithstanding anything contained in Rule 1 of the GFRs 2017, this Order shall also be applicable
   a. to all Autonomous Bodies;
   b. to public sector banks and public sector financial institutions; and
   c. subject to any orders of the Department of Public Enterprises, to all Central Public Sector Enterprises; and
   d. to procurement in Public Private Partnership projects receiving financial support from the Government or public sector enterprises/ undertakings.
   e. Union Territories, National Capital Territory of Delhi and all agencies/ undertakings thereof

Definitions

6. "Bidder" for the purpose of this Order (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.

7. "Tender" for the purpose of this Order will include other forms of procurement, except where the context requires otherwise.

8. "Bidder from a country which shares a land border with India" for the purpose of this Order means

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a) An entity incorporated, established or registered in such a country; or
b) A subsidiary of an entity incorporated, established or registered in such a country; or
c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
d) An entity whose *beneficial owner* is situated in such a country; or
e) An Indian (or other) agent of such an entity; or
f) A natural person who is a citizen of such a country; or
g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

9. "Beneficial owner" for the purpose of paragraph 8 above will be as under:

(i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.
Explanation—

a. "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;

b. "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

(ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

(iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

(iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

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(v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

10. "Agent" for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons.

Sub-contracting in works contracts

11. In works contracts, including turnkey contracts, contractors shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. The definition of "contractor from a country which shares a land border with India" shall be as in paragraph 8 above. This shall not apply to sub-contracts already awarded on or before the date of this Order.

Certificate regarding compliance

12. A certificate shall be taken from bidders in the tender documents regarding their compliance with this Order. If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.

Validity of registration

13. In respect of tenders, registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.

Government E-Marketplace

14. The Government E-Marketplace shall, as soon as possible, require all vendors/ bidders registered with GeM to give a certificate regarding compliance with this Order, and after the date fixed by it, shall remove non-compliant entities from GeM unless/ until they are registered in accordance with this Order.

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Model Clauses/ Certificates

15. Model Clauses and Model Certificates which may be inserted in tenders / obtained from Bidders are enclosed as **Annex III**. While adhering to the substance of the Order, procuring entities are free to appropriately modify the wording of these clauses based on their past experience, local needs etc. without making any reference to this Department.

(Sanjay Prasad)
Joint Secretary (PPD)
Email ID: js.pfc2.doe@gov.in
Telephone: 011-23093882

To

(1) Secretaries of All Ministries/ Departments of Government of India for information and necessary action. They are also requested to inform these provisions to all procuring entities.

(2) Secretary, Department of Public Enterprises with a request to immediately reiterate these orders in respect of Public Enterprises.

(3) Secretary DPIIT with a request to initiate action as provided under Annex I

(4) Chief Secretaries/ Administrators of Union Territories/ National Capital Territory of Delhi

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Annex I: Competent Authority and Procedure for Registration

A. The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)*.

B. The Registration Committee shall have the following members*:

   i. An officer, not below the rank of Joint Secretary, designated for this purpose by DPIIT, who shall be the Chairman;
   ii. Officers (ordinarily not below the rank of Joint Secretary) representing the Ministry of Home Affairs, Ministry of External Affairs, and of those Departments whose sectors are covered by applications under consideration;
   iii. Any other officer whose presence is deemed necessary by the Chairman of the Committee.

C. DPIIT shall lay down the method of application, format etc. for such bidders as stated in para 1 of this Order.

D. On receipt of an application seeking registration from a bidder from a country covered by para 1 of this Order, the Competent Authority shall first seek political and security clearances from the Ministry of External Affairs and Ministry of Home Affairs, as per guidelines issued from time to time. Registration shall not be given unless political and security clearance have both been received.

E. The Ministry of External Affairs and Ministry of Home Affairs may issue guidelines for internal use regarding the procedure for scrutiny of such applications by them.

F. The decision of the Competent Authority, to register such bidder may be for all kinds of tenders or for a specified type(s) of goods or services, and may be for a specified or unspecified duration of time, as deemed fit. The decision of the Competent Authority shall be final.

G. Registration shall not be granted unless the representatives of the Ministries of Home Affairs and External Affairs on the Committee concur*.

H. Registration granted by the Competent Authority of the Government of India shall be valid not only for procurement by Central Government and its agencies/ public enterprises etc. but **also for procurement by State Governments and their agencies/ public enterprises etc. No fresh registration at the State level shall be required**.

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I. The Competent Authority is empowered to cancel the registration already granted if it determines that there is sufficient cause. Such cancellation by itself, however, will not affect the execution of contracts already awarded. Pending cancellation, it may also suspend the registration of a bidder, and the bidder shall not be eligible to bid in any further tenders during the period of suspension.

J. For national security reasons, the Competent Authority shall not be required to give reasons for rejection / cancellation of registration of a bidder.

K. In transitional cases falling under para 3 of this Order, where it is felt that it will not be practicable to exclude bidders from a country which shares a land border with India, a reference seeking permission to consider such bidders shall be made by the procuring entity to the Competent Authority, giving full information and detailed reasons. The Competent Authority shall decide whether such bidders may be considered, and if so shall follow the procedure laid down in the above paras.

L. Periodic reports on the acceptance/ refusal of registration during the preceding period may be required to be sent to the Cabinet Secretariat. Details will be issued separately in due course by DPIIT.

[*Note:

i. In respect of application of this Order to procurement by/ under State Governments, all functions assigned to DPIIT shall be carried out by the State Government concerned through a specific department or authority designated by it. The composition of the Registration Committee shall be as decided by the State Government and paragraph G above shall not apply. However, the requirement of **political and security clearance as per para D shall remain and no registration shall be granted without such clearance**.

ii. Registration granted by State Governments shall be valid only for procurement by the State Government and its agencies/ public enterprises etc. and shall not be valid for procurement in other states or by the Government of India and their agencies/ public enterprises etc.]

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Annex II: Special Cases

A. Till 31st December 2020, procurement of medical supplies directly related to containment of the Covid-19 pandemic shall be exempt from the provisions of this Order.

B. *Bona fide* procurements made through GeM without knowing the country of the bidder till the date fixed by GeM for this purpose, shall not be invalidated by this Order.

C. *Bona fide* small procurements, made without knowing the country of the bidder, shall not be invalidated by this Order.

D. In projects which receive international funding with the approval of the Department of Economic Affairs (DEA), Ministry of Finance, the procurement guidelines applicable to the project shall normally be followed, notwithstanding anything contained in this Order and without reference to the Competent Authority. Exceptions to this shall be decided in consultation with DEA.

E. This Order shall not apply to procurement by Indian missions and by offices of government agencies/ undertakings located outside India.

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Annex III
Model Clause /Certificate to be inserted in tenders etc.

(While adhering to the substance of the Order, procuring entities and GeM are free to appropriately modify the wording of the clause/ certificate based on their past experience, local needs etc.)

Model Clauses for Tenders

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -
   a. An entity incorporated, established or registered in such a country; or
   b. A subsidiary of an entity incorporated, established or registered in such a country; or
   c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
   d. An entity whose *beneficial owner* is situated in such a country; or
   e. An Indian (or other) agent of such an entity; or
   f. A natural person who is a citizen of such a country; or
   g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The *beneficial owner* for the purpose of (iii) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.
   Explanation—

   a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;

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b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. *[To be inserted in tenders for Works contracts, including Turnkey contracts]* The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Model Certificate for Tenders (for transitional cases as stated in para 3 of this Order)

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country and is eligible to be considered."

Model Certificate for Tenders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the

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Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Model Certificate for Tenders for Works involving possibility of sub-contracting

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Model Certificate for GeM:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this vendor/ bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this vendor/ bidder fulfills all requirements in this regard and is eligible to be considered for procurement on GeM. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

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No. P-45021/2/2017-PP (BE-II)
Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
(Public Procurement Section)

Udyog Bhawan, New Delhi
Dated: 16th September, 2020

To

All Central Ministries/Departments/CPSUs/All concerned

ORDER

Subject: Public Procurement (Preference to Make in India), Order 2017– Revision; regarding.

Department for Promotion of Industry and Internal Trade, in partial modification [Paras 2, 3, 5, 10 & 13] of Order No.P-45021/2/2017-B.E.-II dated 15.6.2017 as amended by Order No.P-45021/2/2017-B.E.-II dated 28.05.2018, Order No.P-45021/2/2017-B.E.-II dated 29.05.2019 and Order No.P-45021/2/2017-B.E.-II dated 04.06.2020, hereby issues the revised 'Public Procurement (Preference to Make in India), Order 2017" dated 16.09.2020 effective with immediate effect.

Whereas it is the policy of the Government of India to encourage 'Make in India' and promote manufacturing and production of goods and services in India with a view to enhancing income and employment, and

Whereas procurement by the Government is substantial in amount and can contribute towards this policy objective, and

Whereas local content can be increased through partnerships, cooperation with local companies, establishing production units in India or Joint Ventures (JV) with Indian suppliers, increasing the participation of local employees in services and training them,

Now therefore the following Order is issued:

1. This Order is issued pursuant to Rule 153 (iii) of the General Financial Rules 2017.

2. **Definitions**: For the purposes of this Order:

   'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

   'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class-I local supplier' under this Order.

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'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, meets the minimum local content as prescribed for 'Class-II local supplier' but less than that prescribed for 'Class-I local supplier' under this Order.

'Non - Local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than that prescribed for 'Class-II local supplier' under this Order.

'L1' means the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.

'Margin of purchase preference' means the maximum extent to which the price quoted by a "Class-I local supplier" may be above the L1 for the purpose of purchase preference.

'Nodal Ministry' means the Ministry or Department identified pursuant to this order in respect of a particular item of goods or services or works.

'Procuring entity' means a Ministry or department or attached or subordinate office of, or autonomous body controlled by, the Government of India and includes Government companies as defined in the Companies Act.

'Works' means all works as per Rule 130 of GFR- 2017, and will also include *'turnkey works'*.

3. Eligibility of 'Class-I local supplier'/ 'Class-II local supplier'/ 'Non-local suppliers' for different types of procurement

(a) In procurement of all goods, services or works in respect of which the Nodal Ministry / Department has communicated that there is sufficient local capacity and local competition, only 'Class-I local supplier', as defined under the Order, shall be eligible to bid irrespective of purchase value.

(b) Only 'Class-I local supplier' and 'Class-II local supplier', as defined under the Order, shall be eligible to bid in procurements undertaken by procuring entities, except when Global tender enquiry has been issued. In global tender enquiries, 'Non-local suppliers' shall also be eligible to bid along with 'Class-I local suppliers' and 'Class-II local suppliers'. In procurement of all goods, services or works, not covered by sub-para 3(a) above, and with estimated value of purchases less than Rs. 200 Crore, in accordance with Rule 161(iv) of GFR, 2017, Global tender enquiry shall not be issued except with the approval of competent authority as designated by Department of Expenditure.

(c) For the purpose of this Order, works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.

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3A. Purchase Preference

(a) Subject to the provisions of this Order and to any specific instructions issued by the Nodal Ministry or in pursuance of this Order, purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified here under.

(b) In the procurements of goods or works, which are covered by para 3(b) above and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.

ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.

(c) In the procurements of goods or works, which are covered by para 3(b) above and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.

ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.

iii. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.

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(d) "Class-II local supplier" will not get purchase preference in any procurement, undertaken by procuring entities.

3B. Applicability in tenders where contract is to be awarded to multiple bidders - In tenders where contract is awarded to multiple bidders subject to matching of L1 rates or otherwise, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

a) In case there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local suppliers shall be eligible to bid. As such, the multiple suppliers, who would be awarded the contract, should be all and only 'Class I Local suppliers'.

b) In other cases, 'Class II local suppliers' and 'Non local suppliers' may also participate in the bidding process along with 'Class I Local suppliers' as per provisions of this Order.

c) If 'Class I Local suppliers' qualify for award of contract for at least 50% of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class I Local suppliers' do not qualify for award of contract for at least 50% of the tendered quantity, purchase preference should be given to the 'Class I local supplier' over 'Class II local suppliers'/ 'Non local suppliers' provided that their quoted rate falls within 20% margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class I Local suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity.

d) First purchase preference has to be given to the lowest quoting 'Class-I local supplier', whose quoted rates fall within 20% margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class-I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', falling within 20% margin of purchase preference, and so on.

e) To avoid any ambiguity during bid evaluation process, the procuring entities may stipulate its own tender specific criteria for award of contract amongst different bidders including the procedure for purchase preference to 'Class-I local supplier' within the broad policy guidelines stipulated in sub-paras above.

4. **Exemption of small purchases**: Notwithstanding anything contained in paragraph 3, procurements where the estimated value to be procured is less than Rs. 5 lakhs shall be exempt from this Order. However, it shall be ensured by procuring entities that procurement is not split for the purpose of avoiding the provisions of this Order.

5. **Minimum local content**: The 'local content' requirement to categorize a supplier as 'Class-I local supplier' is minimum 50%. For 'Class-II local supplier', the 'local content' requirement is minimum 20%. Nodal Ministry/ Department may prescribe only a higher

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percentage of minimum local content requirement to categorize a supplier as 'Class-I local supplier'/ 'Class-II local supplier'. For the items, for which Nodal Ministry/ Department has not prescribed higher minimum local content notification under the Order, it shall be 50% and 20% for 'Class-I local supplier'/ 'Class-II local supplier' respectively.

6. **Margin of Purchase Preference**: The margin of purchase preference shall be 20%.

7. **Requirement for specification in advance**: The minimum local content, the margin of purchase preference and the procedure for preference to Make in India shall be specified in the notice inviting tenders or other form of procurement solicitation and shall not be varied during a particular procurement transaction.

8. **Government E-marketplace**: In respect of procurement through the Government E-marketplace (GeM) shall, as far as possible, specifically mark the items which meet the minimum local content while registering the item for display, and shall, wherever feasible, make provision for automated comparison with purchase preference and without purchase preference and for obtaining consent of the local supplier in those cases where purchase preference is to be exercised.

9. **Verification of local content**:

   a. The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.

   b. In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

   c. Decisions on complaints relating to implementation of this Order shall be taken by the competent authority which is empowered to look into procurement-related complaints relating to the procuring entity.

   d. Nodal Ministries may constitute committees with internal and external experts for independent verification of self-declarations and auditor's/ accountant's certificates on random basis and in the case of complaints.

   e. Nodal Ministries and procuring entities may prescribe fees for such complaints.

   f. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

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g. A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed under paragraph 9h below.

h. The Department of Expenditure shall issue suitable instructions for the effective and smooth operation of this process, so that:

i. The fact and duration of debarment for violation of this Order by any procuring entity are promptly brought to the notice of the Member-Convenor of the Standing Committee and the Department of Expenditure through the concerned Ministry /Department or in some other manner;

ii. on a periodical basis such cases are consolidated and a centralized list or decentralized lists of such suppliers with the period of debarment is maintained and displayed on website(s);

iii. in respect of procuring entities other than the one which has carried out the debarment, the debarment takes effect prospectively from the date of uploading on the website(s) in the such a manner that ongoing procurements are not disrupted.

10. **Specifications in Tenders and other procurement solicitations**:

a. Every procuring entity shall ensure that the eligibility conditions in respect of previous experience fixed in any tender or solicitation do not require proof of supply in other countries or proof of exports.

b. Procuring entities shall endeavour to see that eligibility conditions, including on matters like turnover, production capability and financial strength do not result in unreasonable exclusion of 'Class-I local supplier'/ 'Class-II local supplier' who would otherwise be eligible, beyond what is essential for ensuring quality or creditworthiness of the supplier.

c. Procuring entities shall, within 2 months of the issue of this Order review all existing eligibility norms and conditions with reference to sub-paragraphs 'a' and 'b' above.

d. Reciprocity Clause

i. When a Nodal Ministry/Department identifies that Indian suppliers of an item are not allowed to participate and/ or compete in procurement by any foreign government, due to restrictive tender conditions which have direct or indirect effect of barring Indian companies such as registration in the procuring country, execution of projects of specific value in the procuring country etc., it shall provide such details to all its procuring entities including CMDs/CEOs of PSEs/PSUs, State Governments and other procurement agencies under their administrative control and GeM for appropriate reciprocal action.

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ii. Entities of countries which have been identified by the nodal Ministry/Department as not allowing Indian companies to participate in their Government procurement for any item related to that nodal Ministry shall not be allowed to participate in Government procurement in India for all items related to that nodal Ministry/ Department, except for the list of items published by the Ministry/ Department permitting their participation.

iii. The stipulation in (ii) above shall be part of all tenders invited by the Central Government procuring entities stated in (i) above. All purchases on GeM shall also necessarily have the above provisions for items identified by nodal Ministry/ Department.

iv. State Governments should be encouraged to incorporate similar provisions in their respective tenders.

v. The term 'entity' of a country shall have the same meaning as under the FDI Policy of DPIIT as amended from time to time.

e. Specifying foreign certifications/ unreasonable technical specifications/ brands/ models in the bid document is restrictive and discriminatory practice against local suppliers. If foreign certification is required to be stipulated because of non-availability of Indian Standards and/or for any other reason, the same shall be done only after written approval of Secretary of the Department concerned or any other Authority having been designated such power by the Secretary of the Department concerned.

f. "All administrative Ministries/Departments whose procurement exceeds *Rs.* 1000 Crore per annum shall notify/ update their procurement projections every year, including those of the PSEs/PSUs, for the next 5 years on their respective website."

10A. Action for non-compliance of the Provisions of the Order: In case restrictive or discriminatory conditions against domestic suppliers are included in bid documents, an inquiry shall be conducted by the Administrative Department undertaking the procurement (including procurement by any entity under its administrative control) to fix responsibility for the same. Thereafter, appropriate action, administrative or otherwise, shall be taken against erring officials of procurement entities under relevant provisions. Intimation on all such actions shall be sent to the Standing Committee.

11. **Assessment of supply base by Nodal Ministries**: The Nodal Ministry shall keep in view the domestic manufacturing / supply base and assess the available capacity and the extent of local competition while identifying items and prescribing the higher minimum local content or the manner of its calculation, with a view to avoiding cost increase from the operation of this Order.

12. **Increase in minimum local content**: The Nodal Ministry may annually review the local content requirements with a view to increasing them, subject to availability of sufficient local competition with adequate quality.

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13. **Manufacture under license/ technology collaboration agreements with phased indigenization**: While notifying the minimum local content, Nodal Ministries may make special provisions for exempting suppliers from meeting the stipulated local content if the product is being manufactured in India under a license from a foreign manufacturer who holds intellectual property rights and where there is a technology collaboration agreement / transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phasing of increase in local content.

13A. In procurement of all goods, services or works in respect of which there is substantial quantity of public procurement and for which the nodal ministry has not notified that there is sufficient local capacity and local competition, the concerned nodal ministry shall notify an upper threshold value of procurement beyond which foreign companies shall enter into a joint venture with an Indian company to participate in the tender. Procuring entities, while procuring such items beyond the notified threshold value, shall prescribe in their respective tenders that foreign companies may enter into a joint venture with an Indian company to participate in the tender. The procuring Ministries/Departments shall also make special provisions for exempting such joint ventures from meeting the stipulated minimum local content requirement, which shall be increased in a phased manner.

14. **Powers to grant exemption and to reduce minimum local content**: The administrative Department undertaking the procurement (including procurement by any entity under its administrative control), with the approval of their Minister-in-charge, may by written order, for reasons to be recorded in writing,

    a. reduce the minimum local content below the prescribed level; or
    b. reduce the margin of purchase preference below 20%; or
    c. exempt any particular item or supplying entities from the operation of this Order or any part of the Order.

    A copy of every such order shall be provided to the Standing Committee and concerned Nodal Ministry / Department. The Nodal Ministry / Department concerned will continue to have the power to vary its notification on Minimum Local Content.

15. **Directions to Government companies**: In respect of Government companies and other procuring entities not governed by the General Financial Rules, the administrative Ministry or Department shall issue policy directions requiring compliance with this Order.

16. **Standing Committee**: A standing committee is hereby constituted with the following membership:

    Secretary, Department for Promotion of Industry and Internal Trade—Chairman
    Secretary, Commerce—Member
    Secretary, Ministry of Electronics and Information Technology—Member
    Joint Secretary (Public Procurement), Department of Expenditure—Member
    Joint Secretary (DPIIT)—Member-Convenor

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The Secretary of the Department concerned with a particular item shall be a member in respect of issues relating to such item. The Chairman of the Committee may co-opt technical experts as relevant to any issue or class of issues under its consideration.

17. **Functions of the Standing Committee**: The Standing Committee shall meet as often as necessary, but not less than once in six months. The Committee

a. shall oversee the implementation of this order and issues arising therefrom, and make recommendations to Nodal Ministries and procuring entities.
b. shall annually assess and periodically monitor compliance with this Order
c. shall identify Nodal Ministries and the allocation of items among them for issue of notifications on minimum local content
d. may require furnishing of details or returns regarding compliance with this Order and related matters
e. may, during the annual review or otherwise, assess issues, if any, where it is felt that the manner of implementation of the order results in any restrictive practices, cartelization or increase in public expenditure and suggest remedial measures
f. may examine cases covered by paragraph 13 above relating to manufacture under license/ technology transfer agreements with a view to satisfying itself that adequate mechanisms exist for enforcement of such agreements and for attaining the underlying objective of progressive indigenization
g. may consider any other issue relating to this Order which may arise.

18. **Removal of difficulties**: Ministries /Departments and the Boards of Directors of Government companies may issue such clarifications and instructions as may be necessary for the removal of any difficulties arising in the implementation of this Order.

19. **Ministries having existing policies**: Where any Ministry or Department has its own policy for preference to local content approved by the Cabinet after 1st January 2015, such policies will prevail over the provisions of this Order. All other existing orders on preference to local content shall be reviewed by the Nodal Ministries and revised as needed to conform to this Order, within two months of the issue of this Order.

20. **Transitional provision**: This Order shall not apply to any tender or procurement for which notice inviting tender or other form of procurement solicitation has been issued before the issue of this Order.

(Rajesh Gupta)
Director
Tel: 23063211
rajesh.gupta66@gov.in

No. K-14011/08/2017-MRTS-Coord
Government of India
Ministry of Housing and Urban Affairs
(MRTS Coord Desk)

311-B, Nirman Bhawan, New Delhi,
Dated the 12th February, 2021.

To

The Managing Directors of All Metro Rail Corporations
(As per standard list)

Subject: Revision of Minimum Local Content (MLC) of various metro rail components under MII-PPP Order, 2017 of DPIIT.

Sir/Madam,

I am directed to refer to the above cited subject and to re-circulate herewith the minimum local content to be adopted by metro rail corporations, revised by this Ministry vide letter of even no. dated 14.10.2020, for information and necessary action.

Yours faithfully,

Encl: As above.

(Rachna Kumar)
Under Secretary to the Govt of India
Tel: 23062935

List of MDs of Metro

1.	The Managing Director, Delhi Metro Rail Corporation Ltd., Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110 001. Email: mdmetro@dmrc.org	2.	The Managing Director, Chennai Metro Rail Ltd., Admn. Building, CMRL Depot, Poonamallee High Road, Koyambedu, Chennai-600107. Email: md.cmrl@tn.gov.in
3.	The Managing Director, National Capital Region Transport Corporation Ltd., (NCRTC) 7/6, AMDA Building, Siri Fort Institutional Area, August Kranti Marg, New Delhi – 110 049 E.mail: md.office@ncrtc.in	4.	The Managing Director, Bangalore Metro Rail Corpn. Ltd., 3rd Floor, BMTC Complex, K.H. Road, Shanthinagar, Bangalore-560 027. Email: md@bmrc.co.in
5.	The Managing Director, Hyderabad Metro Rail Ltd., Rasoolpura, Begumpet, Hyderabad – 500 016 Email: nvsreddyiras@gmail.com	6.	The Managing Director, Uttar Pradesh Metro Rail Corpn. Ltd., Administrative Building, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal, Vipin Khand, Gomti Nagar, Lucknow-226 010. Email: mdlucknowmetro@gmail.com
7.	The Managing Director, Jaipur Metro Rail Corporation Ltd., Khanij Bhawan, Udyog Bhawan Premises, Tilak Marg C. Scheme, Jaipur-302 005. Email: cmd@jaipurmetrorail.in cmd.jmrc@gmail.com	8.	The Managing Director, Kochi Metro Rail Ltd., JLN Metro Station, 4th Floor Kaloor, Ernakulam-682 017 Ph. 0484 2846700 Email: md@kmrl.co.in
9.	The Managing Director, Gujarat Metro Rail Corporation Limited, (for Ahmedabad, Gandhinagar and Surat Metros) Block No.1, 1st Floor, Karma Yogi Bhavan, Sector-10A, Gandhinagar-382 010. Email: md@gujaratmetrorail.com	10.	The Managing Director, Maha- Metro Rail Corporation (for Nagpur and Pune Metros) "Metro House", 28/2, C.K. Naidu Road, Anand Nagar, Civil Lines, Nagpur-440 001. Email: md@mahametro.org
11.	The Managing Director, Mumbai Metro Rail Corpn. Ltd., Bandra Kurla Complex, Bandra (East), Mumbai-400 051. Email: md.office@mmrcl.com	12	The Managing Director, Mumbai Metropolitan Regional Development Authority (MMRDA), Bandra-Kurla Complex, Bandra East, Mumbai-400 051. Email: mcmmrda@gmail.com
13.	The Managing Director, Kolkata Metro Rail Corporation Ltd., HRBC Complex, KMRCL Bhavan, 2nd & 3rd Floor, Munsi Premchand Sarani, Kolkata – 700 001 E.mail: md@kmrc.in	14	The Managing Director, Amravati Metro Rail Corporation Ltd., Kaushalya Apartment, 1st Floor, H.No.40-3-8, Gummadi Gopal Rao Street, Laffipet, Vijayawada – 520 010 Email: nprkreddy@yahoo.co.in
15	The Managing Director, Noida Metro Rail Corporation Limited, Block-III, 3rd Floor, Ganga Shopping Complex Sector – 29, Noida – 201 301 E.mail: nmrcnoida@gmail.com	16	The Managing Director, Madhya Pradesh Metro Rail Company Ltd., (for Bhopal and Indore Metros) Palika Bhavan., Near 6 number Bus Stop Shivaji Nagar, Bhopal – 462016 E.Mail:metrorail@mpurban.gov.in
17	The Managing Director, Patna Metro Rail Corporation Limited, Patna, Bihar E.mail: ud.bihar@gmail.com	18	The Managing Director, Mumbai Metro One Pvt. Ltd., Metro Corporate Centre, Four Bungalows, Andheri(W), Mumbai - 400 053 E.Mail: abhay.mishra@relianceada.com
19	The Managing Director, L&T Metro Rail (Hyderabad) Limited Uppal Main Road, Nagole Hyderabad-500 039 E Mail kvb.reddy@ltmetro.com	20	The Metropolitan Commissioner, Pune Metropolitan Region Development Authority, 4th floor, Maharaja Sayajirao, Gaikwad Udyog Bhawan, Survey No. 152-153, Aundh, Pune-411067. Email: comm@pmrda.gov.in

No. K-14011/08/2017/MRTS-Coord
Government of India
Ministry of Housing and Urban Affairs
(MRTS-Coord Desk)

311-B, Nirman Bhawan, New Delhi,
Dated the 14th October, 2020.

To

Managing Directors of All Metro Rail Corporations
(As per standard list)

Subject: Revision of Minimum Local Content (MLC) of various metro rail components under MII-PPP Order, 2017 of DPIIT

I am directed to refer to the above cited subject and to say that the existing Minimum Local Content (MLC) of various metro rail components issued vide this Ministry's letter of even number dated 13.07. 2018 was reviewed in the last meeting of Managing Directors of various Metro Rail Corporations held on 08.10.2020. The revised minimum local content to be adopted by Metro Rail Companies in the procurement of various components shall be as under:

S. No	Metro Rail Components	Existing % of MLC	Revised% of MLC
1	Rolling Stock	40% which could be increased to 50% from FY-2019	**60%**
2	Telecom	40% which could be increased to 50% from FY-2020	**50%**
3	Signaling	30% which could be increased to 40% from FY-2020 and 50% from FY - 2023	**50%**
4	Civil Works (Elevated & Underground)	80%	**90% (for Elevated)** **80% (for Underground)**
5	Electrical and Mechanical	50%	**60%**

2. The above Minimum Local Content would be for Class-1 local supplier under MII-PPP Order of DPIIT. For Class-II local supplier, the Minimum Local Content should be kept at 20% for all components as mentioned in extant MII-PPP Order of DPIIT.

3. This is for information and necessary action.

Yours faifhfully,

(Rachna Kumar)
Under Secretary to the Govt. of India
Telefax: 2306 2935

Copy for information to: The Secretary, DPIIT, Udyog Bhawan, New Delhi-11.

1.	The Managing Director, Delhi Metro Rail Corporation Ltd., Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110 001. Email: mdmetro@dmrc.org	2.	The Managing Director, Chennai Metro Rail Ltd., Admn. Building, CMRL Depot, Poonamallee High Road, Koyambedu, Chennai-600107. Email: md.cmrl@tn.gov.in
3.	The Managing Director, National Capital Region Transport Corporation Ltd., (NCRTC) 7/6, AMDA Building, Siri Fort Institutional Area, August Kranti Marg, New Delhi – 110 049 E.mail: md.office@ncrtc.in	4.	The Managing Director, Bangalore Metro Rail Corpn. Ltd., 3rd Floor, BMTC Complex, K.H. Road, Shanthinagar, Bangalore-560 027. Email: md@bmrc.co.in
5.	The Managing Director, Hyderabad Metro Rail Ltd., Rasoolpura, Begumpet, Hyderabad – 500 016 Email: nvsreddyiras@gmail.com	6.	The Managing Director, Uttar Pradesh Metro Rail Corpn. Ltd., Administrative Building, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal, Vipin Khand, Gomti Nagar, Lucknow-226 010. Email: mdlucknowmetro@gmail.com
7.	The Managing Director, Jaipur Metro Rail Corporation Ltd., Khanij Bhawan, Udyog Bhawan Premises, Tilak Marg C. Scheme, Jaipur-302 005. Email: cmd@jaipurmetrorail.in cmd.jmrc@gmail.com	8.	The Managing Director, Kochi Metro Rail Ltd., JLN Metro Station, 4th Floor Kaloor, Ernakulam-682 017 Ph. 0484 2846700 Email: md@kmrl.co.in
9.	The Managing Director, Gujarat Metro Rail Corporation Limited, (for Ahmedabad, Gandhinagar and Surat Metros) Block No.1, 1st Floor, Karma Yogi Bhavan, Sector-10A, Gandhinagar-382 010. Email: md@gujaratmetrorail.com	10.	The Managing Director, Maha- Metro Rail Corporation (for Nagpur and Pune Metros) "Metro House", 28/2, C.K. Naidu Road, Anand Nagar, Civil Lines, Nagpur-440 001. Email: md@mahametro.org
11.	The Managing Director, Mumbai Metro Rail Corpn. Ltd., Bandra Kurla Complex, Bandra (East), Mumbai-400 051. Email: md.office@mmrcl.com	12	The Managing Director, Mumbai Metropolitan Regional Development Authority (MMRDA), Bandra-Kurla Complex, Bandra East, Mumbai-400 051. Email: mcmmrda@gmail.com
13.	The Managing Director, Kolkata Metro Rail Corporation Ltd., HRBC Complex, KMRCL Bhavan, 2nd & 3rd Floor, Munsi Premchand Sarani, Kolkata – 700 001 E.mail: md@kmrc.in	14	The Managing Director, Amravati Metro Rail Corporation Ltd., Kaushalya Apartment, 1st Floor, H.No.40-3-8, Gummadi Gopal Rao Street, Laffipet, Vijayawada – 520 010 Email: nprkreddy@yahoo.co.in
15	The Managing Director, Noida Metro Rail Corporation Limited, Block-III, 3rd Floor, Ganga Shopping Complex Sector – 29, Noida – 201 301 E.mail: nmrcnoida@gmail.com	16	The Managing Director, Madhya Pradesh Metro Rail Company Ltd., (for Bhopal and Indore Metros) Palika Bhavan,, Near 6 number Bus Stop Shivaji Nagar, Bhopal – 462016 E.Mail:metrorail@mpurban.gov.in
17	The Managing Director, Patna Metro Rail Corporation Limited, Patna, Bihar E.mail: ud.bihar@gmail.com	18	The Managing Director, Mumbai Metro One Pvt, Ltd., Metro Corporate Centre, Four Bungalows, Andheri(W), Mumbai - 400 053 E.Mail: abhay.mishra@relianceada.com
19	The Managing Director, L&T Metro Rail (Hyderabad) Limited Uppal Main Road, Nagole Hyderabad-500 039 E Mail kvb.reddy@ltmetro.com	20	The Metropolitan Commissioner, Pune Metropolitan Region Development Authority, 4th floor, Maharaja Sayajirao, Gaikwad Udyog Bhawan, Survey No. 152-153, Aundh, Pune-411067. Email: comm@pmrda.gov.in

F. No. K-14011/10/2020 -UT-V
Government of India
Ministry of Housing and Urban Affairs
Urban Transport Division
(UT-V Desk)

311-B, Nirman Bhawan, New Delhi.
Dated the 8th March, 2021.

To,

i. MD, Delhi Metro Rail Corporation Limited < mdmetro@dmrc.org>.
ii. MD, Mumbai Metro Rail Corporation Limited < md.office@mmrcl.com>.
iii. MD, Chennai Metro Rail Limited < md.cmrl@tn.gov.in>.
iv. MD, Bangalore Metro Rail Corporation Limited < md@bmrc.co.in>.
v. MD, Noida Metro Rail Corporation Limited < nmrcnoida@gmail.com>.
vi. MD, UP Metro Rail Corporation Limited < mdlucknowmetro@gmail.com>.
vii. MD, MP Metro Rail Corporation Limited < psuaddmp@mpurban.gov.in>.
viii. MD, National Capital Region Transport Corporation< md.office@ncrtc.in >
ix. MD, Kochi Metro Rail Limited < md@kmrl.co.in>.
x. MD, Gujarat Metro Rail Corporation Limited < md@gujaratmetrorail.com>.
xi. MD, Maha Metro Rail Corporation Limited < md@mahametro.org>.
xii. MD, Patna Metro Rail Corporation Limited < ud.bihar@gmail.com>.
xiii. MD, Jaipur Metro Rail Corporation Limited < cmd@jaipurmetrorail.in>
xiv. MC, Mumbai Metropolitan Region Development Authority <mcmmrda@gmail.com>
xv. MD, Hyderabad Metro Rail Limited < nvsreddyiras@gmail.com>.
xvi. MD, Kolkata Metro Rail Corporation Limited < md@kmrc.in>.
xvii. MD, Mumbai Metro One Pvt. Limited abhay.mishra@relianceada.com
xviii. MC, Pune Metropolitan Region Development Authority <comm@pmrda.gov.in>
xix. MD, L&T Metro Rail (Hyderabad) Limited <kvb.reddy@ltmetro.com>
xx. MD, MMMOCL <md@mmmocl.co.in>

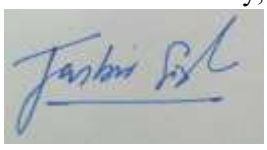
Subject: Clarification for local content calculation under PPP-MII Order –reg.

Sir/Madam,

I am directed to refer to and enclose herewith OM dated 04.03.2021 from Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry on the above cited subject for information/ necessary action.

Encl : As above.

Yours Sincerely,



(Jasbir Singh)
Under Secretary to the Govt. of India
Tel: 011-23062285

Copy to (with a request to take similar action in respect of organisations/offices under their purview/ control):
i. Joint Secretary (Smart City), MoHUA / Joint Secretary (SBM), MoHUA / Joint Secretary (PSP), MoHUA / Joint Secretary, (HFA), MoHUA / Joint Secretary (NULM), MoHUA / Joint Secretary (A,

L&E), MoHUA / Joint Secretary (Works), MoHUA / Joint Secretary (AMRUT), MoHUA /, Joint Secretary (N, I & Admin), MoHUA.
ii. Directorate General, CPWD, A-Wing, Room No. 101, Nirman Bhawan, New Delhi – 110011.
iii. Chairman cum Managing Director, NBCC India Limited, NBCC Bhawan, Lodhi Road, New Delhi – 110 003.
iv. Vice Chairman, Delhi Development Authority (DDA), B-Block, 1st Floor, Vikas Sadan, New Delhi – 110023.
v. Chairman cum Managing Director, HUDCO, HUDCO Bhawan, India Habitat Centre, Lodhi Road, New Delhi – 110 003.
vi. Shri Sudhir Kumar Mandal, Joint Secretary, Controller of Publication < copdep@nic.in>.
vii. Director, Directorate of Printing <bansal.arun@gov.in>.
viii. Ms. Ritu Sain, Director (DE)-I, Directorate of Estates < ritusain@ias.nic.in>.
ix. Shri Naveen Yadav, Director (DE)-II, Directorate of Estates < naveen.yadav@nic,in>.
x. Shri K. K. Joadder, Chief Planner, Town and Country Planning Organisation < cp.tcpo@yahoo.com>
xi. Shri P K Gupta, CMD, National Building Construction Corporation < cmdsectt.nbcc@nic.in, bdd@nbccindia.com >.
xii. Prof./ Dr. P.S.N. RAO, Chairman, Delhi Urban Art Commission < drpsnrao@hotmail.com>.
xiii. Shri Hitesh Vaidya, Director, National Institute of Urban Affair < director@niua.org>.
xiv. Shri B.K. Tripathi, Member Secretary, National Capital Region Planning Board < ncrpbms@nic.in>.
xv. Dr Shailesh Kr Agrawal, ED, Building Materials and Technology Promotion Council (BMTPC) < ska@bmtpc.org>.
xvi. Shri Umraw Singh, Director & HOD, National Buildings Organisation, < umraw.s@gov.in>.
xvii. Shri N.S.Mehara, Chief Executive, National Cooperative Housing Federation of India < nchf.2001@yahoo.com>.

P-45021/102/2019-BE-II-Part(1) (E- 50310)
Government of India
Ministry of Commerce and Industry
Department of Promotion of Industry and Internal Trade
(Public Procurement Section)

Udyog Bhawan Delhi-110011
Dated March 4, 2021

OFFICE MEMORANDUM

Subject: Clarification for local content calculation PPP-MII Order –reg.

The undersigned is directed to refer Public Procurement (Preference to Make in India) Order dated 2017, as amended on 16.09.2020 regarding purchase preference for local manufactured items in Public Procurement.

2. References have been received in this department from various procuring entities wherein procuring entities have sought clarification as to whether the bidders offering imported content can claim themselves as Class-I local/Class-II local suppliers claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

3. In this regard it is clarified that the bidders offering imported products will fall under the category of Non- local suppliers. They can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

4. This issues with the approval of competent authority.

(Pritam Kumar)
Under Secretary to Government of India
E-mail: pritam.k@gov.in
Ph :- 011-23601306

To

All Ministries/Departments of Government of India

F.No.6/18/2019-PPD
Ministry of Finance
Department of Expenditure
Public Procurement Division

161, North Block,
New Delhi
23rd July, 2020

Office Memorandum

Subject: Insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017

Rule 144 of the General Financial Rules 2017 entitled 'Fundamental principles of public buying', has been amended by inserting sub-rule (xi) as under:

Notwithstanding anything contained in these Rules, Department of Expenditure may, by order in writing, impose restrictions, including prior registration and/or screening, on procurement from bidders from a country or countries, or a class of countries, on grounds of defence of India, or matters directly or indirectly related thereto including national security; no procurement shall be made in violation of such restrictions.

(Sanjay Prasad)
Joint Secretary (PPD)
Email ID: js.pfc2.doe@gov.in
Telephone: 011-23093882

To,
(1) Secretaries of All Ministries/ Departments of Government of India
(2) Chief Secretaries/ Administrators of Union Territories/ National Capital Territory of Delhi

F.No.6/18/2019-PPD
Ministry of Finance
Department of Expenditure
Public Procurement Division

161, North Block,
New Delhi
23rd July, 2020

Order (Public Procurement No. 1)

Subject: Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

Attention is invited to this office OM no. 6/18/2019-PPD dated 23rd July 2020 inserting Rule 144 (xi) in GFRs 2017. In this regard, the following is hereby ordered under Rule 144 (xi) on the grounds stated therein:

Requirement of registration

1. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority, specified in **Annex I.**

2. This Order shall not apply to (i) cases where orders have been placed or contract has been concluded or letter/notice of award/ acceptance (LoA) has been issued on or before the date of this order; and (ii) cases falling under **Annex II**.

Transitional cases

3. Tenders where no contract has been concluded or no LoA has been issued so far shall be handled in the following manner: -

   a) *In tenders which are yet to be opened, or where evaluation of technical bid or the first exclusionary qualificatory stage (i.e. the first stage at which the qualifications of tenderers are evaluated and unqualified bidders are excluded) has not been completed*: No contracts shall be placed on bidders from such countries. Tenders received from bidders from such countries shall be dealt with as if they are non-compliant with the tender conditions and the tender shall be processed accordingly.

   b) *If the tendering process has crossed the first exclusionary qualificatory stage*: If the qualified bidders include bidders from such countries, the

entire process shall be scrapped and initiated *de novo*. The *de novo* process shall adhere to the conditions prescribed in this Order.

c) As far as practicable, and in cases of doubt about whether a bidder falls under paragraph 1, a certificate shall be obtained from the bidder whose bid is proposed to be considered or accepted, in terms of paras 8, 9 and 10 read with para 1 of this Order.

Incorporation in tender conditions

4. In tenders to be issued after the date of this order, the provisions of paragraph 1 and of other relevant provisions of this Order shall be incorporated in the tender conditions.

Applicability

5. Apart from Ministries / Departments, attached and subordinate bodies, notwithstanding anything contained in Rule 1 of the GFRs 2017, this Order shall also be applicable
   a. to all Autonomous Bodies;
   b. to public sector banks and public sector financial institutions; and
   c. subject to any orders of the Department of Public Enterprises, to all Central Public Sector Enterprises; and
   d. to procurement in Public Private Partnership projects receiving financial support from the Government or public sector enterprises/ undertakings.
   e. Union Territories, National Capital Territory of Delhi and all agencies/ undertakings thereof

Definitions

6. "Bidder" for the purpose of this Order (including the term 'tenderer', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.

7. "Tender" for the purpose of this Order will include other forms of procurement, except where the context requires otherwise.

8. "Bidder from a country which shares a land border with India" for the purpose of this Order means

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a) An entity incorporated, established or registered in such a country; or
b) A subsidiary of an entity incorporated, established or registered in such a country; or
c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
d) An entity whose *beneficial owner* is situated in such a country; or
e) An Indian (or other) agent of such an entity; or
f) A natural person who is a citizen of such a country; or
g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

9. "Beneficial owner" for the purpose of paragraph 8 above will be as under:

(i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.
Explanation—

a. "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;

b. "Control" shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

(ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

(iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

(iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

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(v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

10. "Agent" for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons.

Sub-contracting in works contracts

11. In works contracts, including turnkey contracts, contractors shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. The definition of "contractor from a country which shares a land border with India" shall be as in paragraph 8 above. This shall not apply to sub-contracts already awarded on or before the date of this Order.

Certificate regarding compliance

12. A certificate shall be taken from bidders in the tender documents regarding their compliance with this Order. If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.

Validity of registration

13. In respect of tenders, registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.

Government E-Marketplace

14. The Government E-Marketplace shall, as soon as possible, require all vendors/ bidders registered with GeM to give a certificate regarding compliance with this Order, and after the date fixed by it, shall remove non-compliant entities from GeM unless/ until they are registered in accordance with this Order.

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Model Clauses/ Certificates

15. Model Clauses and Model Certificates which may be inserted in tenders / obtained from Bidders are enclosed as **Annex III**. While adhering to the substance of the Order, procuring entities are free to appropriately modify the wording of these clauses based on their past experience, local needs etc. without making any reference to this Department.

(Sanjay Prasad)
Joint Secretary (PPD)
Email ID: js.pfc2.doe@gov.in
Telephone: 011-23093882

To

(1) Secretaries of All Ministries/ Departments of Government of India for information and necessary action. They are also requested to inform these provisions to all procuring entities.

(2) Secretary, Department of Public Enterprises with a request to immediately reiterate these orders in respect of Public Enterprises.

(3) Secretary DPIIT with a request to initiate action as provided under Annex I

(4) Chief Secretaries/ Administrators of Union Territories/ National Capital Territory of Delhi

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Annex I: Competent Authority and Procedure for Registration

A. The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)*.

B. The Registration Committee shall have the following members*:

   i. An officer, not below the rank of Joint Secretary, designated for this purpose by DPIIT, who shall be the Chairman;
   ii. Officers (ordinarily not below the rank of Joint Secretary) representing the Ministry of Home Affairs, Ministry of External Affairs, and of those Departments whose sectors are covered by applications under consideration;
   iii. Any other officer whose presence is deemed necessary by the Chairman of the Committee.

C. DPIIT shall lay down the method of application, format etc. for such bidders as stated in para 1 of this Order.

D. On receipt of an application seeking registration from a bidder from a country covered by para 1 of this Order, the Competent Authority shall first seek political and security clearances from the Ministry of External Affairs and Ministry of Home Affairs, as per guidelines issued from time to time. Registration shall not be given unless political and security clearance have both been received.

E. The Ministry of External Affairs and Ministry of Home Affairs may issue guidelines for internal use regarding the procedure for scrutiny of such applications by them.

F. The decision of the Competent Authority, to register such bidder may be for all kinds of tenders or for a specified type(s) of goods or services, and may be for a specified or unspecified duration of time, as deemed fit. The decision of the Competent Authority shall be final.

G. Registration shall not be granted unless the representatives of the Ministries of Home Affairs and External Affairs on the Committee concur*.

H. Registration granted by the Competent Authority of the Government of India shall be valid not only for procurement by Central Government and its agencies/ public enterprises etc. but **also for procurement by State Governments and their agencies/ public enterprises etc. No fresh registration at the State level shall be required**.

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I. The Competent Authority is empowered to cancel the registration already granted if it determines that there is sufficient cause. Such cancellation by itself, however, will not affect the execution of contracts already awarded. Pending cancellation, it may also suspend the registration of a bidder, and the bidder shall not be eligible to bid in any further tenders during the period of suspension.

J. For national security reasons, the Competent Authority shall not be required to give reasons for rejection / cancellation of registration of a bidder.

K. In transitional cases falling under para 3 of this Order, where it is felt that it will not be practicable to exclude bidders from a country which shares a land border with India, a reference seeking permission to consider such bidders shall be made by the procuring entity to the Competent Authority, giving full information and detailed reasons. The Competent Authority shall decide whether such bidders may be considered, and if so shall follow the procedure laid down in the above paras.

L. Periodic reports on the acceptance/ refusal of registration during the preceding period may be required to be sent to the Cabinet Secretariat. Details will be issued separately in due course by DPIIT.

[*Note:

i. In respect of application of this Order to procurement by/ under State Governments, all functions assigned to DPIIT shall be carried out by the State Government concerned through a specific department or authority designated by it. The composition of the Registration Committee shall be as decided by the State Government and paragraph G above shall not apply. However, the requirement of **political and security clearance as per para D shall remain and no registration shall be granted without such clearance**.

ii. Registration granted by State Governments shall be valid only for procurement by the State Government and its agencies/ public enterprises etc. and shall not be valid for procurement in other states or by the Government of India and their agencies/ public enterprises etc.]

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Annex II: Special Cases

A. Till 31st December 2020, procurement of medical supplies directly related to containment of the Covid-19 pandemic shall be exempt from the provisions of this Order.

B. *Bona fide* procurements made through GeM without knowing the country of the bidder till the date fixed by GeM for this purpose, shall not be invalidated by this Order.

C. *Bona fide* small procurements, made without knowing the country of the bidder, shall not be invalidated by this Order.

D. In projects which receive international funding with the approval of the Department of Economic Affairs (DEA), Ministry of Finance, the procurement guidelines applicable to the project shall normally be followed, notwithstanding anything contained in this Order and without reference to the Competent Authority. Exceptions to this shall be decided in consultation with DEA.

E. This Order shall not apply to procurement by Indian missions and by offices of government agencies/ undertakings located outside India.

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Annex III

Model Clause /Certificate to be inserted in tenders etc.

(While adhering to the substance of the Order, procuring entities and GeM are free to appropriately modify the wording of the clause/ certificate based on their past experience, local needs etc.)

Model Clauses for Tenders

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -

a. An entity incorporated, established or registered in such a country; or
b. A subsidiary of an entity incorporated, established or registered in such a country; or
c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
d. An entity whose *beneficial owner* is situated in such a country; or
e. An Indian (or other) agent of such an entity; or
f. A natural person who is a citizen of such a country; or
g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The *beneficial owner* for the purpose of (iii) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.
Explanation—

a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;

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b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;

2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. *[To be inserted in tenders for Works contracts, including Turnkey contracts]* The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Model Certificate for Tenders (for transitional cases as stated in para 3 of this Order)

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country and is eligible to be considered."

Model Certificate for Tenders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the

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Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Model Certificate for Tenders for Works involving possibility of sub-contracting

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Model Certificate for GeM:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this vendor/ bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this vendor/ bidder fulfills all requirements in this regard and is eligible to be considered for procurement on GeM. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

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End of Document

MAHARASHTRA METRO RAIL CORPORATION LIMITED

Pune Metro Rail Project

Joint Venture of Govt. of India & Govt. of Maharashtra

CIN: U60100MH2015SGC262054

Date: 17 Jun 2022

CORRIGENDUM-I

Tender No.: P1TL-02/2022 dated 11 Jun 2022

Name of Work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Reference: Further to **Tender Documents** dated 11 Jun 2022

Event	As per NIT	Revised
Pre Bid Meeting	18/06/2022 at 11.00 Hrs at Office of Pune Metro Rail Project, Inside Mahatma Phule Museum, Ghole Road, Shivaji Nagar, Pune-411005	18/06/2022 at 11.00 Hrs at Office of Pune Metro Rail Project, Inside Mahatma Phule Museum, Ghole Road, Shivaji Nagar, Pune- 411005 and through online video conferencing vide following link – *https://zoom.us/j/97023918431?pwd=emJlMG14cVBDNXFieHBNazlBemtlUT09* *Meeting ID: 970 2391 8431* *Passcode: 027436*

ED (Procurement & Contracts),
Pune Metro Rail Project,
Maharashtra Metro Rail Corporation Limited.

MAHARASHTRA METRO RAIL CORPORATION LIMITED

Pune Metro Rail Project

Joint Venture of Govt. of India & Govt. of Maharashtra

CIN: U60100MH2015SGC262054

Date: 20 Jun 2022

CORRIGENDUM-II

Tender No.: P1TL-02/2022 dated 11 Jun 2022

Name of Work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Reference: Further to **Tender Documents** dated 11 Jun 2022 and Corrigendum I dated **17 Jun 2022**

Event	As per NIT	Revised
Last date of submission of queries for Pre-bid	Till 17.00 Hrs on 20/06/2022 at Email : tenders.pmrp@mahametro.org as per format mentioned in Annexure-13	Till 17.00 Hrs on 22/06/2022 at Email : tenders.pmrp@mahametro.org as per format mentioned in Annexure-13

(A K Mathur)

ED (Procurement & Contracts),
Pune Metro Rail Project,
Maharashtra Metro Rail Corporation Limited.

MAHARASHTRA METRO RAIL CORPORATION LIMITED

Pune Metro Rail Project

Joint Venture of Govt. of India & Govt. of Maharashtra

CIN: U60100MH2015SGC262054

Date: 02 Jul 2022

CORRIGENDUM-III

Tender No.: P1TL-02/2022 dated 11 Jun 2022

Name of Work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Reference: Further to **Tender Documents** dated 11 Jun 2022, **Corrigendum I** dated 17 Jun 2022 and **Corrigendum II** dated 20 Jun 2022

Extension of bid submission date and opening date is as under:

Activity (Event)	**As per NIT**	**Revised**
Date & Time of submission of Tender:	Online submission up-till **15.00 Hrs on 02/07/2022** at Maha-Metro's e-tender portal.	Online submission up-till 15.00 Hrs on **16/07/2022** at Maha-Metro's e-tender portal.
Date & Time of Opening of Tender:	On **02/07/2022 at 15.30 Hrs** or as decided by Maha-Metro at Procurement Section Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001	On **16/07/2022** at 15.30 Hrs or as decided by Maha-Metro at Procurement Section Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001

ED (Procurement & Contracts),
Pune Metro Rail Project,
Maharashtra Metro Rail Corporation Limited.

MAHARASHTRA METRO RAIL CORPORATION LIMITED

Pune Metro Rail Project

Joint Venture of Govt. of India & Govt. of Maharashtra

CIN: U60100MH2015SGC262054

Date: 07 July 2022

CORRIGENDUM-IV

Tender No.: P1TL-02/2022 dated 11 Jun 2022

Name of Work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Reference: Further to **Tender Documents** dated 11 Jun 2022, **Corrigendum I** dated 17 Jun 2022, **Corrigendum II** dated 20 Jun 2022 and **Corrigendum III** dated 02 Jul 2022

The following documents shall be part of Corrigendum IV:

1. Corrigendum-IV (Part A) - Reply to Bidders' Queries (05 Pages)
2. Corrigendum-IV (Part B) (04 Pages)
3. Corrigendum-IV – Annexure-1(a): Drawings
4. Corrigendum-IV – Annexure-1: Parent Company Undertaking & Guarantee (06 Pages)
5. Corrigendum-IV – Annexure-2: License Fee – Revised Table of Tender document (02 Pages)
6. Corrigendum-IV – Annexure-3: License Fee – Revised Table of Draft License Agreement (02 Pages)
7. Corrigendum-IV – Annexure-4: Stages of Activity of Tender document (01 Page)
8. Corrigendum-IV – Annexure-5: Stages of Activity of Draft License Agreement (01 Page)

ED (Procurement & Contracts),
Pune Metro Rail Project,
Maharashtra Metro Rail Corporation Limited.

Name of work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Tender No.: P1TL-02/2022

Corrigendum-IV (Part-A)

Reply to Bidder's queries

S.N	Section	Clause No.	Bid Condition	Bidder's queries	Maha-Metro's Response
1	4 - Eligibility Criteria	4.2.1, Note	The Bidder must be registered with Department of the Telecommunications, Government of India as authorized Infrastructure provider in IP-1 category.	Refering to Dot Clarifications as attached. As per DOT, UL- VNO(Category-B) is mandatory to own and operate the IBS infrastructure and IP -1 regiatration were asked by DOT upgarde themselves to UL-VNO(Category-B). Kindly confirm if UL-VNO (Category-B) is mandatory requriment.	Tender condition prevails.
2	4 - Eligibility Criteria	4.2.2 - Qualification and Eligibility – Financial Capacity	For demonstrating eligibility (the "Financial Capacity"), the Bidder shall be required to fulfil the following qualification criteria – a. Average Annual turnover in the last 3 (three) financial years immediately preceding the Bid Due Date (i.e. FY 2019-20, 2020-21, 2021-22) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.03.2022) of INR 2.43 Cr (Rupees Two Crore Forty Three Lakh only). b. Net Worth at the end of the Financial Year immediately preceding the Bid Due Date (FY 2021-22) of INR 3.65 Cr (Rupees Three Crore Sixty Five Lakh only) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before (31.03.2022).	We are a wholly owned subsidiary of 25+ years Foreign Company. We are UL-VNO (Category B) licensed company with large local references in India such as Bangalore airport and Surat Diamond bourse projects with similar business model. As we are new in India and cannot meet financial capacity eligibility criteria, therefore please confirm If We Can we submit parent company credentials to meet financial eligibility criteria	Please refer Sl. No. 2 of Corrigendum-IV (Part-B).
3	5 - Objective and Scope	5.2 (g)	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document.	Typically Telecom discussions and agrements take couple of months. Once awarded the contract only then Bidder will tie up with mobile service provider on this project. However, we having agreement/LOI with mobile service providers on some other projects and shall commit to submit 3 telecom operators onboard after award. Kindly confirm if this is acceptable.	Tender condition prevails.
4	5 - Objective and Scope	5.2 (j)	The Licensee is permitted to take fiber from out-side station to GSM/CDMA room at their own cost and meeting the requirement of cable specifications for Underground Section. The fiber cable is to be used solely for carrying traffic for mobile coverage of Maha-Metro. No other data of whatever type shall be permitted on this fiber cable.	Need more clarity for the scope of fiber/backhaul connectivity. Please provide more datails	Please refer Annexure-2 of Corrigendum-IV (Part-B).
5	6 - General Terms for Grant of License	6.8 (A) - 3 & 4	3. License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater 4. Maintenance charges for Space including Supervision Charges for tunnel entry. (Entry in tunnel will be restricted to availability of power block in the section.)	Is the aditional charges excludes space & electricity? Please provide details	Yes. Please refer Annexure-2 of Corrigendum-IV (Part-B).
6	6 - General Terms for Grant of License	6.8 (E)	Dark Fiber Between Stations: As per Maha-Metro Rates applicable from time to time	Please share the rate /tarrifs details	Please refer Annexure-2 of Corrigendum-IV (Part-B).
7	7 - Instructions to Bidders	7.3	Site visit and verification of information	Please share the contact details for site visit and survey	Site visit/ survey is scheduled on 09/07/2022. Bidders who are interested for site visit/survey may plan accordingly. The details of the Officer-in-Charge who may be contacted for site visit and survey are as below: O/o Additional CPM (Telecom). email id: santosh.kumar@mahametro.org
8	10 - Miscellaneous	10.2	Miscellaneous (a) suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates or other terms and conditions relating thereto;	We request for a 4 weeks extention for submitting our proposals	The Bid submission date has been extended to 16.07.2022. Please refer Corrigendum-III dated 02.07.2022.
9	Annexure-1: Details of Location		Details of Location	Scope of Work is Tunnel and 5 Under Ground Stations. Carpet area (Total area to be covered) of each station is required as stations would be having more the one floor.	Please refer Sl. No. 12 of Corrigendum-IV (Part-B).
10	2 - Objective and Scope	2.3 (a)	The Licensee shall ensure that passengers using metro train services will get uninterrupted mobile coverage without any interruption in underground section as described in Scope of this document. It requires that the Radio system shall have an overall availability of better than 99.95%. The signal level should be such that the uplink and down link audio quality level under such conditions should be good. The minimum signal level which is sufficient for successful radio calls must be available in all coverage areas including inside the moving (50 kmph) train compartment. It shall be available in 95% of total area and in worst case not more than 50 meter of continuous stretch in stations and in tunnel/train should be without coverage. The signal levels mentioned herewith are the worst case Down Link signal levels after taking into account all losses such as propagation losses, feeder losses, body loss, fading, train penetration losses, multiple floor / wall penetration losses, climatic losses, etc.	Coverage KPI's for Each technology (2G, 3G, 4G & 5G) to be shared in details. As per Kpis from Telecom operators its -95dBm in 95% area.	Tender condition prevails.
11	2 - Objective and Scope	2.2 (f)(i)	Include all cellular standards such as GSM, CDMA, W-CDMA, and LTE/VOLTE. etc.	Band and Bandwidth for Each technology (2G, 3G, 4G & 5G) to be shared.	Bidder to refer technical parameters as per prevailing standards of cellular network.
12	5 - Objective and Scope	5.1 (a)	Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s):	Is 5G requirment in the Tunnel will be based on availablity of leaky feeder supporting upto 4GHz. Other wise tunnel will be covered with 4G.	Please refer Sl. No. 3 of Corrigendum-IV (Part-B).
13	5 - Objective and Scope	5.1 (a)	Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s):	Is MIMO required in all area or only in Hotspot area. Kindly need Breakage for total requirment.	Tender condition is self-explanatory.
14	5 - Objective and Scope	5.2 (f)(iv)	The installation has to be inside the false ceiling and aesthetics is to be maintained.	All passive component will be installed above ceiling except Antenna.	This may be finalized during detailed design stage.

S.N	Section	Clause No.	Bid Condition	Bidder's queries	Maha-Metro's Response
15	5 - Objective and Scope	5.2 (f)(iv)	Further, Licensee can use 2 locations at concourse and 1 at each platform to use active components. The installation has to be inside the false ceiling and aesthetics is to be maintained. Location of such installation is to be approved by Maha Metro. Use of this active equipment is limited to the scope of this Agreement and they cannot be used for any other purpose such as Wi- Fi, etc.	3 Location will be allocated for Active component, 2 on concource and 1 on platform. Can more location can be provided if requred based on technical considerations.	This may be finalized during detailed design stage.
16	2 - Objective and Scope	2.3 (a)	The Licensee shall ensure that passengers using metro train services will get uninterrupted mobile coverage without any interruption in underground section as described in Scope of this document. It requires that the Radio system shall have an overall availability of better than 99.95%. The signal level should be such that the uplink and down link audio quality level under such conditions should be good. The minimum signal level which is sufficient for successful radio calls must be available in all coverage areas including inside the moving (50 kmph) train compartment. It shall be available in 95% of total area and in worst case not more than 50 meter of continuous stretch in stations and in tunnel/train should be without coverage. The signal levels mentioned herewith are the worst case Down Link signal levels after taking into account all losses such as propagation losses, feeder losses, body loss, fading, train penetration losses, multiple floor / wall penetration losses, climatic losses, etc.	Need to Know exact Metro car material details to ensure correct simulation.	This may be finalized during detailed design stage.
17	11 - Regulations for Preparation and Utilisation of Licensed Premises	11.12	Licensee shall ensure that equipment installed does not interfere with the sensitive electronic equipment installed inside the station and tunnel by Maha-Metro including TETRA based train radio system. Initial tests for any interference to be done before start of operation. If any interference is noticed, then the Licensee shall take all necessary steps at his own risk and cost to remove such interference. Failure to do so within a period of 2 (two) working days authorizes the Licensor to take all necessary steps to prevent this interference at the risk and cost of the Licensee. In addition, a penalty of Rs. 5,000/- for each occasion of interference may be imposed by the Licensor. Test reports and any other supportive documentation as may be required/ requested by Maha-Metro, will have to be supplied immediately. A clearance certificate has to be obtained from the signal and telecom department of Maha-Metro to this effect	Telecom system operates at separate frequency as allocated. Interfernce from other source and external elements will not our responsibility.	Tender condition prevails.
18	6 - General Terms for Grant of License	6.8 (A) - 3	License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater: Rs. 16,106/- per station/month + GST	Cable tray usage should be free. As it will be an additional Cost.	Please refer Annexure-2 of Corrigendum-IV (Part-B).
19	6 - General Terms for Grant of License	6.8 (A)	1. License Fee for Space (License Fee for space per station in GSM/CDMA room [approx. 10 sqm in area] at each metro station as per Annexure-1 [In case, if handed over space is more than 15% (1.15 times) of 10 sqm, then license Fee will be increased on pro rata basis] License Fee of additional space for utilities/microwave tower (Will be charged for minimum 1 sqm area) 2. License Fee of additional space for utilities/microwave tower (Will be charged for minimum 1 sqm area) 3. License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater 4. Maintenance charges for Space including Supervision Charges for tunnel entry. (Entry in tunnel will be restricted to availability of power block in the section.)	There should be only 1 catergory mentioned as Monthly rental. As the problem is tracking all the payments. And also while quoting in the financial bid it will be difficult for tracking.	Please refer Annexure-2 of Corrigendum-IV (Part-B).
20	6 - General Terms for Grant of License	6.8 (B)	6. Air-Conditioning Charges (Considering 1 number of FCU working and 1 FCU standby.) 7. Air-Conditioning Maintenance Charges i.e. Operation and Maintenance charges for high end installations at stations (monthly basis)	Air-Conditioner not required in case FCU are already installed. The Monthly charges should not be charged. The AC charges should not be part of BOQ.	Please refer Annexure-2 of Corrigendum-IV (Part-B).
21	6 - General Terms for Grant of License	6.8 (B)	5. Electrical Installation Charges including substation lease rent. 8. Energy consumption charges (Energy consumption as per installed Energy Meter)	Energy Charges should be mentioned as one	Please refer Annexure-2 of Corrigendum-IV (Part-B).
22	6 - General Terms for Grant of License	6.1 (E)	Dark Fiber Between Stations: As per Maha-Metro Rates applicable from time to time	Dark Fiber rates should be mentioned	Please refer Annexure-2 of Corrigendum-IV (Part-B).
23	5 - Objective and Scope	5.2 (g)	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier.	No. of operators operating cannot be guaranteed as it will depend on buisness case of the operators. Penalty Clause should be removed.	Please refer Sl. No. 4 of Corrigendum-IV (Part-B).
24	6 - General Terms for Grant of License	6.6	Fitment Period: Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided	Fitment period should be atleast 90 days	Please refer Sl. No. 13 of Corrigendum-IV (Part-B).
25	5 - Objective and Scope	5.2 (c)	The IBS as a concept shall be offered by a single infra provider/entity whereby with a single common infrastructure all existing and upcoming mobile operators can serve their customers in an easy and efficient manner. The said entity shall offer shared In-Building Solutions for various types of telecom operators such as GSM/CDMA Technologies.	We will design IBS DAS network considering the 2G/3G/4G/5G as per agreement with OPCOs. GSM / CDMA falls under 2G techology. Please clarify that all prevailing technologies are covered under this tender without any additional charge to licensee.	Tender condition is self-explanatory.
26	5 - Objective and Scope	5.2 (f) (i)	i. Include all cellular standards such as GSM, CDMA, W-CDMA, and LTE/VOLTE. etc.	Inclusion of all including future technologies to DAS may not be feasible. We suggest to ammend this clause that Licensee shall deploy the DAS solution which shall cover technologies (2G and/or 3G and/or 4G and/or 5G) as per their agreement with sharing OPCOs. .	Please refer Sl. No. 3 of Corrigendum-IV (Part-B).

S.N	Section	Clause No.	Bid Condition	Bidder's queries	Maha-Metro's Response
27	5 - Objective and Scope	5.2 (f) (iv)	No repeater equipment shall generally be installed in tunnels. Nevertheless, if it is unavoidable then repeaters can be allowed adhering to the schedule of dimensions. Power for the same has to be extended by the Licensee from licensed room. Any co-axial cable, power cable etc. has to meet the FRLSZH (Fire Retardant Low Smoke Zero Halogen) criteria for underground environment and has to be provided by the licensee along with associated equipment for receiving signals of mobile service providers. In this regard, certificates and test reports of the manufacturer are to be submitted to Maha-Metro. Further, Licensee can use 2 locations at concourse and 1 each at platform to use active components. The installation has to be inside the false ceiling and aesthetics is to be maintained. Location of such installation is to be approved by Maha-Metro. Use of this active equipment is limited to the scope of this Agreement, and they cannot be used for any other purpose such as Wi- Fi, etc.	The tunnels with is more than 150mtr in length. Would require fibre optic repeater needs to be used inside the tunnel to get uninterrupted mobile coverage. The same should be permitted by Pune metro as long as within the prescribed tunnel SOD of Pune Metro. Pune Metro should not restrict the no. of locations for active and passive equipment. This should depend on the DAS design and DAS frequency support / Equipment capability. Such conditions shall result in monopoly of DAS equipment provider.	This may be finalized during detailed design stage.
28	5 - Objective and Scope	5.2 (i)	Licensee has to install all necessary cables (of FRLSZH type only), LCX & OFC in tunnel, cables and fixing of antenna in station and associated equipment for amplification of the signals in all areas of the underground stations and the approach ramp of the tunnel at its own cost, so as to provide seamless connectivity to the commuters travelling in the tunnels and underground station(s) of the Section. Cable trays and cable hangers for this purpose will be provided by Maha-Metro against payment of one-time capital cost and monthly fee. In case of separate cabling for CDMA and GSM network, sthe charges for the clamps shall be applicable for 2 cables. Licensee shall at their own cost and risk prepare/install cable tray and clamps etc. after obtaining Maha-Metro approval where such provision is not available. No claim or compensation on this account shall be entertained. General specification of the cables shall be as per Annexure-10.4. In addition, 4 (four) random samples from each type of cables are required to be tested for conformance of the specifications related to fire and smoke in Govt. lab and cost of such testing to be borne by the Licensee. Over sheath of the LCX cable shall be an extruded layer of anti-corrosion, reduced flame propagation, low smoke zero halogen compound complying with the fire performance requirement as per Annexure-10.4. Factory Acceptance Test (FAT)/ Accredited Lab Test report of the cables to be submitted to Maha-Metro for review of the above parameters.	if Clamps of LCX (leaky cable) cable in the tunnel shall be provided by Pune. LCX cable clamp should be infrom of train window (approx. 2.6 mtr from track). Beyond this height, their will be change to meet the coverage requirment inside the running train. Pune metro need to share the specification & size of the clamp which they are providing. note: 1-1/4" RF leaky cable clamp would be required for Pune metro becuse currently 1-5/8" RF leaky cable for the frequency band (698-4000MHz) is not availble in market. Pune Metro to share the tunnel layout with the marking of such clamp locations and location where such clamps are not fixed. Do we need to supply the cable samples to Pune metro for testing or get the complete testing done at Govt. lab and submit the reports. Pune metro to specify the list of compliant labs for such testing.	Please refer Sl. No. 12 of Corrigendum-IV (Part-B). Regarding testing of cable samples: Tender condition is self-explanatory.
29	5 - Objective and Scope	5.2 (j)	The Licensee is permitted to take fiber from out-side station to GSM/CDMA room at their own cost and meeting the requirement of cable specifications for Underground Section. The fiber cable is to be used solely for carrying traffic for mobile coverage of Maha-Metro. No other data of whatever type shall be permitted on this fiber cable.	Sometime due ROW permission issue from PMC/PWD, there is not feasible for operator to arramge the fibre connectivity at all station locations. So request Pune metro to allow licence to connect all the stations through fibre in ring form via tunnels.	Please refer Annexure-2 of Corrigendum-IV (Part-B).
30	5 - Objective and Scope	5.2 (m)	Licensee shall ensure regular interaction and provide all necessary logistic support to the mobile operators so that they can provide un-interrupted mobile coverage in all underground areas.	Licensee may only be able to provide the back to back support to Operator subject to contract with Pune metro and their approval for project and day to day activities.	Tender condition prevails.
31	5 - Objective and Scope	5.2 (n)	The Licensee shall ensure compliance with permissible radiation limits for mobile towers/antennas as laid down by Municipal Corporation / State Government / Department of Telecommunications, etc. from time to time. The service provider/integrator should confirm to smooth voice communication in the vicinity of towers. A joint checking of the coverage with representative of the licensee, Property development cell, S&T and operations shall be conducted half-yearly and in case of any shortfall, a token penalty of Rs. 5,000/- will be levied on the Licensee.	Radiation limit compliance should come under the OPCOs scope and Licensee shall be able to confirm the compliance subject compliance from OPCOs. Licensee can ensure the compliance and uptime of own equipment and there is no mechanism to get the same ensured from OPCOs.	Tender condition prevails.
32	5 - Objective and Scope	5.2 (o)	The Selected Bidder shall be responsible for obtaining necessary permissions from Department of Telecommunications (DoT) and comply with all the guidelines issued by DoT from time to time and applicable law for undertaking the Permitted Activity in the Licensed Premises. Any law/instruction issued by Local Authority, in this regard, shall also be adhered to.	We uderstand that Licensee shall comply to applicable licence requirement	Tender condition is self-explanatory.
33	5 - Objective and Scope	5.2 (p)	The Selected Bidder shall first utilize the telecommunication infrastructure of Maha-Metro on commercial terms wherever technically feasible before considering alternate facilities.	Pune Metro is requested to provide the detail of their telecommunication infrastructure for allowed for such usage and process of allotment. 100% utilization of Pune metro infrastructure may not be possible	Please refer Sl. No. 5 of Corrigendum-IV (Part-B).
34	5 - Objective and Scope	5.2 (r)	Licensee shall interface with Civil/Electrical/Signal & Telecom etc during execution of work. Licensee shall also attend progress review meeting held at site offices on regular basis.	Pune Metro is requested to nominate a SPOC from their side; who can interact with Pune metro internal departments and stake holders for timely permission and execution of project.	Tender condition prevails.
35	6 - General Terms for Grant of License	6.2	Additional area at each station may be provided to the Licensee based on availability and feasibility at the sole discretion of Maha-Metro. In case of handing over of additional area at the same location, no fitment period shall be provided. Interest Free Security Deposit/ Performance Security shall also be updated for the additional area within 15 days from the date of handing over. The tenure of such additional area/ location shall be coterminous with the License Agreement. The locations shall be handed over to Selected Bidder as defined in scope of work after receipt of full payment as stipulated in the LOA and as per the possession Letter.	Delay in such fitments from Pune Metro may result in delay and project completion time-line is subject to change	Tender condition prevails.
36	6 - General Terms for Grant of License	6.6	Fitment Period: Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided.	Request to Pune Metro, increase the Fitment period from 30 days to 180 days(if stratch is not operational) and 180 days to 270 days (if stratch is operational or non allocation of work timely work permissions). Above proposed fitment time shall be calculated from the date of handover of the stretch to licensee. Also the time taken taken by Pune metro for different permissions shall be excluded from the Fitment period	Please refer Sl. No. 13 of Corrigendum-IV (Part-B).
37	General	General		If fire sealing and false ceiling have already closed at all the locations by Pune Metro. We request Pune metro to include opening and closing the fire sealing and false ceiling in their scope and cost at the time of IBS installation	All cost related to installation activity including effort and material involved in site interface & co-ordination will be in the scope of work of the licensee.
38	General	General		We request Pune Metro to provide CAD drawing of each station at the time of handover of CDMA/GSM rooms.	Yes, it shall be provided.
39	2 - Objective and Scope	2.2 (f) (iv)	No repeater equipment shall generally be installed in tunnels. Nevertheless, if it is unavoidable then repeaters can be allowed adhering to the schedule of dimensions. Power for the same has to be extended by the Licensee from licensed room. Any co-axial cable, power cable etc. has to meet the FRLSZH (Fire Retardant Low Smoke Zero Halogen) criteria for underground environment and has to be provided by the licensee along with associated equipment for receiving signals of mobile service providers. In this regard, certificates and test reports of the manufacturer are to be submitted to Maha-Metro. Further, Licensee can use 2 locations at concourse and 1 at each platform to use active components. The installation has to be inside the false ceiling and aesthetics is to be maintained. Location of such installation is to be approved by Maha-Metro. Use of this active equipment is limited to the scope of this Agreement and they cannot be used for any other purpose such as Wi- Fi, etc.	Equipment installation shall be done inside the tunnels for extending the network coverage. Request Pune metro to share their equipment specification and guidelines for tunnel equipments if any. To avoid signal loss due to false ceiling and ensure good coverage at stations and other area, DAS antennae shall be installed outside the ceiling. Which is the standard practice. Pune metro should allow this kind of installation	This may be finalized during detailed design stage.

S.N	Section	Clause No.	Bid Condition	Bidder's queries	Maha-Metro's Response
40	2 - Objective and Scope	2.2 (g)	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavour to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile Service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier.	Since the OPCOs share DAS subject to their requirement and business potential. Hence Licensee cannot force all OPCOs to come and share the DAS. So we suggest to removed this condition. Also please include that Pune metro shall ensure that the licensee shall be given the exclusive right to provide the solution for Mobile coverage solution and all the OPCOs shall only be allowed to radiate at subjected premises through the Licensees DAS network. Also Pune metro shall ensure the removal of that all other mobile coverage installation/solutions at these locations.	Please refer Sl. No. 10 of Corrigendum-IV (Part-B).
41	2 - Objective and Scope	2.2 (i)	Licensee has to install all necessary cables (of FRLSZH type only), LCX & OFC in tunnel, cables and fixing of antenna in station and associated equipment for amplification of the signals in all areas of the underground stations and the approach ramp of the tunnel at its own cost, so as to provide seamless connectivity to the commuters travelling in the tunnels and underground station(s) of the Section. Cable trays and cable hangers for this purpose will be provided by Maha-Metro against payment of one time capital cost and monthly fee. In case of separate cabling for CDMA and GSM network, the charges for the clamps shall be applicable for 2 cables. Licensee shall at their own cost and risk prepare/install cable tray and clamps etc. after obtaining Maha-Metro approval where such provision is not available. No claim or compensation on this account shall be entertained. General specification of the cables shall be as per Annexure-10.5. In addition 4 (four) random samples from each type of cables are required to be tested for conformance of the specifications related to fire and smoke in Govt. lab and cost of such testing to be borne by the Licensee. Oversheath of the LCX cable shall be an extruded layer of anti-corrosion, reduced flame propagation, low smoke zero halogen compound complying with the fire performance requirement as per Annexure-10.5 Factory Acceptance Test (FAT) report of the cables to be submitted to Maha-Metro for review of the above parameters.	Cable hangers would be required between 2.4-2.7 height i.e in front of train window to ensure good coverage inside the train.	Please refer Sl. No. 12 of Corrigendum-IV (Part-B).
42	6 - License Fee	6.10	The Licensee shall pay to Maha-Metro for Five (5) stations as per LOA and Agreement, quarterly in advance, all payments requested as per details and rates indicated in the table below- Point no. 1	10 Sqm room space per station may not sufficient. So request Pune Metro to provide 15 sqm secure room space in square shape at each station to install the Licensee and operators equiment.	Tender condition prevails.
43	4 - Eligibility Criteria	4.2.1	In case of JV/Consortium, the above needs to be fulfilled by the lead member.- •The bidder shall be required to submit experience certificate duly issued by the client for the above-mentioned work.- • Pre-submission signed-off document/ Letter of Intent (LOI) by at least two (2) leading mobile operators with the bidding IP1 c acceptability of Design & Technical solution.- • The Bidder must be registered with Department of the Telecommunications, Government of India as authorized Infrastructu provider in IP-1 category.(Copy of valid DoT/IP-1 License is required to be submitted)	are the below points related to JV/Consortium or they are applicable for solo participation also?	Similar conditions are applicable to solo bidders.
44	General	General		Date of bid submission to be extended as there is a physical site survey, BoQ preparation, business model, operator alignment to be done	The Bid submission date has been extended to 16.07.2022. Please refer Corrigendum-III dated 02.07.2022.
45	4 - Eligibility Criteria	4.2.1 - Qualification and Eligibility – Technical Eligibility - Note	Pre-submission signed-off document/ Letter of Intent (LOI) by at least two (2) leading mobile operators with the bidding IP1 on acceptability of Design & Technical solution.	Definition of "Leading" operators assumed as all 3 private operators. This should be based upon binding MoU with high level commercial agreement with MNOs and not just LOI as LOI based commitments have not been converted into tenancy in the past because of high license fees quoted by IP-1 which has made telco business case unviable after the tendering process.	Tender condition prevails.
46	6 - General Terms for Grant of License	6.8	Monthly recurring charges, Variable charges and One time Lump-sum Charges table	Can we expect the various costs to be divided into – -One Time Capital Cost -Variable Charges oMonthly Recurring Charges oAt actuals	Please refer Annexure-2 of Corrigendum-IV (Part-B).
47	5 - Objective and Scope	5.2 (j)	The Licensee is permitted to take fiber from out-side station to GSM/CDMA room at their own cost and meeting the requirement of cable specifications for Underground Section. The fiber cable is to be used solely for carrying traffic for mobile coverage of Maha-Metro. No other data of whatever type shall be permitted on this fiber cable	Pls clarify -No Fibre ROW charges within the premises including tunnels to be paid to Pune Metro for this?	Please refer Annexure-2 of Corrigendum-IV (Part-B).
48	6 - General Terms for Grant of License	6.4 Tenure of License Agreement	The License shall be for a period of nine (9) years, subject to lock-in period of 2 (two) years, from the commencement of license fee	In order to protect the investment, FNL suggests to increase the lock in period from 2 years to 5 years	Tender condition prevails.

S.N	Section	Clause No.	Bid Condition	Bidder's queries	Maha-Metro's Response
49	Annexure-8	Affidavit	1. I say that I am the authorised signatory of ……(insert name of company/Bidder) (hereinafter referred to as "Bidder") and I am duly authorised by the Board of Directors of the Bidder to swear and depose this Affidavit on behalf of the Bidder.	We need a clarification whether the Annexure 8 Affidavit if signed by the power of attorney holder (as per annexure 6) will be accepted since the language of the first paragraph to the affidavit will change. The first para of the affidavit will read as below: "I say that I am the authorized signatory of ……(name of company) (hereinafter referred to as "Bidder") and I am duly authorised by ……. Vide PoA dated ……. , given to him by the Board of Directors of the Bidder vide their resolution dated …… to swear and depose this Affidavit on behalf of the Bidder." The original affidavit only states "duly authorised by the Board of Directors". We need clarity on this.	Tender condition prevails.
50	5 - Objective and Scope	5.2 (g)	Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied.	Out of 5 stations, if 2 stations have 3 operators, in that case how will the penalty be calculated? Since it mentioned per station per month, will the penalty be for only 3 stations? i.e., 3 x 5000 = 15000 per month	Yes, bidder's understanding is correct.
51	5 - Objective and Scope	5.2 (g)	In case licensee fails to comply to the provision of tie ups with three (3) mobile operators as described above, Maha-Metro reserves the right to ask individual/group of mobile operators to propagate their signals in licensed premises over the same infrastructure provided by the Licensee.	If even after 24 months if the Licensee is unable to get 3 operators which of the following will happen? 1) The agreement will be terminated. 2) The agreement will not be terminated but, licensee must keep paying Rs.10000 per month per station until the operator's clause is fulfilled. 3) As mentioned in the clause highlighted in RED, if Maha Metro gets the mobile operators to use the licensee's infrastructure: a) Will the operators start paying the licensee? b) Will the Rs.10000 penalty be waived off since there are 3 operators?	Maha-Metro reserves the right to ask individual/group of mobile operators to propagate their signals in licensed premises over the same infrastructure provided by the Licensee. However, the modality of the process shall be decided on case-to-case basis. Further, please refer Sl. No. 4 of Corrigendum-IV (Part-B).
52	2 - Objective and Scope	2.2 (g)	Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator.	Suppose an additional operator comes forward to take ONE station rather than 5. In that case, will the increase in license fee be 20% of the license fee quoted for that station?	Yes, bidder's understanding is correct.
53	6 - General Terms for Grant of License	6.6	Fitment Period: Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided.	Is there a chance of adding of any new underground station in the same section?	Subject tender is for 5 no. of stations which shall be handed over as per site readiness. Further new underground station may come in future, which is in planning stage.
54	General	General		We would like to request you to good office to grant us extension 30 days to complete the fomalities	The Bid submission date has been extended to 16.07.2022. Please refer Corrigendum-III dated 02.07.2022.
55	5 - Objective and Scope	5.2(g)	Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier.	As scenario is volatile, you are requested to be allowed with minimum 01 operator	Please refer Sl. No. 4 of Corrigendum-IV (Part-B).
56	General	General		Clarification requested regarding the outdoor installation of pole.	This may be finalized during detailed design stage.
57	General	General		Request clarification of area to be covered, possibility of erecting the pole on the terrace for OD sector, charges for the additional space for OD pole. Request for clarification.	Entire tunnel & complete underground station area including entry/exit is to be covered. For charges, please refer Annexure-2 of Corrigendum-IV (Part-B).
58	General	General		Request you to please provide the layout of the tunnels. Request for the layout of tunnels.	Please refer Sl. No. 12 of Corrigendum-IV (Part-B).
59	General	General		We need some more time for documentations and discussion with the operators. It is therefore requested that the timelines for submission of tender may kindly be extended by another 15 days from 2nd July'22	The Bid submission date has been extended to 16.07.2022. Please refer Corrigendum-III dated 02.07.2022.
60	General	General		As per clause 6.8 (E) on page No.23 of tender document it is mentioned that the dark fiber between stations will be as per Maha Metro rates applicable from time to time. In this connection it is submitted that we have provided similar services in DMRC, Gujarat Metro, Chennai Metro, Jaipur Metro, Lucknow metro. On all these projects we have put our own fiber for connectivity in between the stations at our own cost. It is therefore requested that the IPs may kindly be allowed to put their own fiber for connectivity between the station.	Please refer Annexure-2 of Corrigendum-IV (Part-B).

Corrigendum - IV (Part-B)

Name of Work Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Tender No. P1TL-02/2022

Sl. No.	Section	Clause No. / Page no.	Existing Description	Revised Description
1	4 - Eligibility Criteria	4.2.1, Page 13	**4.2.1 Qualification and Eligibility – Technical Eligibility** For demonstrating eligibility (the "Technical Eligibility"), the Bidder shall be required to fulfil the following qualification criteria at Annexure- 14 – a. The bidder should have executed In-Building Solution (IBS) works for providing shared Mobile Coverage Solution for at least 1 no. of Metro Rail Network/ Airports/Multistoried Buildings/Malls or tunnels for GSM/CDMA/Wi-Fi/VoLTE operators. b. The agency engaged in installation of IBS must have minimum experience of one year in managing In-Building Solutions (IBS) for providing shared Mobile coverage solutions for various types of telecom operators like GSM/CDMA/Wi-Fi/VoLTE in public areas after installation. Note : In case of JV/Consortium, the above needs to be fulfilled by the lead member. - The bidder shall be required to submit experience certificate duly issued by the client for the above-mentioned work. - Pre-submission signed-off document/ Letter of Intent (LOI) by at least two (2) leading mobile operators with the bidding IP1 on acceptability of Design & Technical solution. - The Bidder must be registered with Department of the Telecommunications, Government of India as authorized Infrastructure provider in IP-1 category. (Copy of valid DoT/IP-1 License is required to be submitted)	**4.2.1 Qualification and Eligibility – Technical Eligibility** For demonstrating eligibility (the "Technical Eligibility"), the Bidder shall be required to fulfil the following qualification criteria at Annexure- 14 – a. The bidder should have executed In-Building Solution (IBS) works for providing shared Mobile Coverage Solution for at least 1 no. of Metro Rail Network/ Airports/Multistoried Buildings/Malls or tunnels for GSM/CDMA/Wi-Fi/VoLTE operators. b. The agency engaged in installation of IBS must have minimum experience of one year in managing In-Building Solutions (IBS) for providing shared Mobile coverage solutions for various types of telecom operators like GSM/CDMA/Wi-Fi/VoLTE in public areas after installation. Note : In case of JV/Consortium, the above needs to be fulfilled by the lead member. - The bidder shall be required to submit experience certificate duly issued by the client for the above-mentioned work. - Pre-submission signed-off document/ Letter of Intent (LOI) by at least two (2) leading mobile operators with the bidding IP1 on acceptability of Design & Technical solution. - The Bidder must be registered with Department of the Telecommunications, Government of India as authorized Infrastructure provider in IP-1 category. (Copy of valid DoT/IP-1 License is required to be submitted) - ***Credentials of parent company can be considered, subject to the submission of the Parent Company Guarantee and Parent Company Undertaking by the Bidder as per the attached format in Annexure-1 of Corrigendum-IV (Part-B).***
2	4 - Eligibility Criteria	4.2.2, Page 13	**4.2.2. Qualification and Eligibility – Financial Capacity** For demonstrating eligibility (the "Financial Capacity"), the Bidder shall be required to fulfil the following qualification criteria – a. Average Annual turnover in the last 3 (three) financial years immediately preceding the Bid Due Date (i.e. FY 2019-20, 2020-21, 2021-22) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.03.2021) of INR 2.43 Cr (Rupees Two Crore Forty Three Lakh only). b. Net Worth at the end of the Financial Year immediately preceding the Bid Due Date (FY 2021-22) of INR 3.65 Cr (Rupees Three Crore Sixty Five Lakh only) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before (31.03.2022). Note : -The Turnover and Networth Certificate(s) shall be submitted as per the format provided at Annexure- 14 which shall be duly signed by its Statutory Auditor specifying the Average Annual Turnover for the last 3 (three) financial years immediately preceding the Bid Due Date (FY 2019-20, 2020-21, 2021-22) and the Net-worth of the Bidder as on 31st March, 2022. -Bidder shall submit its duly audited Financial Statements such as Cashflow Statement, Balance Sheet and Profit and Loss Account for the preceding 3 (three) financial years immediately preceding the Bid Due Date (FY: 2019-20, FY 2020-21 and FY 2021-22). -In case audited financial statements of Financial Year 2021-22 is not available, the Bidder	**4.2.2. Qualification and Eligibility – Financial Capacity** For demonstrating eligibility (the "Financial Capacity"), the Bidder shall be required to fulfil the following qualification criteria – a. Average Annual turnover in the last 3 (three) financial years immediately preceding the Bid Due Date (i.e. FY 2019-20, 2020-21, 2021-22) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.03.2021) of INR 2.43 Cr (Rupees Two Crore Forty Three Lakh only). b. Net Worth at the end of the Financial Year immediately preceding the Bid Due Date (FY 2021-22) of INR 3.65 Cr (Rupees Three Crore Sixty Five Lakh only) as certified by the Statutory Auditor of the Bidder (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before (31.03.2022). Note : -The Turnover and Networth Certificate(s) shall be submitted as per the format provided at Annexure-14 which shall be duly signed by its Statutory Auditor specifying the Average Annual Turnover for the last 3 (three) financial years immediately preceding the Bid Due Date (FY 2019-20, 2020-21, 2021-22) and the Net-worth of the Bidder as on 31st March, 2022. -Bidder shall submit its duly audited Financial Statements such as Cashflow Statement, Balance Sheet and Profit and Loss Account for the preceding 3 (three) financial years immediately preceding the Bid Due Date (FY: 2019-20, FY 2020-21 and FY 2021-22). -In case audited financial statements of Financial Year 2021-22 is not available, the Bidder should

Sl. No.	Section	Clause No. / Page no.	Existing Description	Revised Description
			should submit provisional balance sheet and/or financial statements duly certified by Statutory Auditor. -Weightage of 5% (Compounded annually) for Indian currency and 2 % per year for foreign currency shall be given for equating the financial turnover of the previous year to the current year. -In case of a Bid by a JV/Consortium of firms, for the purpose of evaluation, each member's contribution towards the turnover shall be considered in the same ratio of their participation in the JV/Consortium. i.In jurisdictions that do not have statutory auditors, the firm of auditors which audits the annual accounts of the Bidder may provide the certificates required under this document. ii.For assessment of the eligibility of the Bidders, the financial year as applicable in the country of origin of the Bidders would be considered. The 'last financial year' will be the latest financial year that ended on or before 31.03.2022. iii.In case of foreign currency for assessment of the eligibility of the Bidders, the Exchange (Selling) Rates shall be taken from the rates issued by the FBIL (Financial Benchmarks India Pvt Ltd) at the close of business 28 (twenty-eight) days before the latest date of Bid submittal. In case this particular day happens to be a holiday, the exchange rate at the opening of the business FBIL on the next working day will be considered.	submit provisional balance sheet and/or financial statements duly certified by Statutory Auditor. -Weightage of 5% (Compounded annually) for Indian currency and 2 % per year for foreign currency shall be given for equating the financial turnover of the previous year to the current year. -In case of a Bid by a JV/Consortium of firms, for the purpose of evaluation, each member's contribution towards the turnover shall be considered in the same ratio of their participation in the JV/Consortium. ***-Credentials of parent company can be considered, subject to the submission of the Parent Company Guarantee and Parent Company Undertaking by the Bidder as per the attached format in Annexure-1 of Corrigendum-IV (Part-B).*** i.In jurisdictions that do not have statutory auditors, the firm of auditors which audits the annual accounts of the Bidder may provide the certificates required under this document. ii.For assessment of the eligibility of the Bidders, the financial year as applicable in the country of origin of the Bidders would be considered. The 'last financial year' will be the latest financial year that ended on or before 31.03.2022. iii.In case of foreign currency for assessment of the eligibility of the Bidders, the Exchange (Selling) Rates shall be taken from the rates issued by the FBIL (Financial Benchmarks India Pvt Ltd) at the close of business 28 (twenty-eight) days before the latest date of Bid submittal. In case this particular day happens to be a holiday, the exchange rate at the opening of the business FBIL on the next working day will be considered.
3	5 - Objective and Scope	5.1, Page 16	**5.1 Objectives of Bid Document:** a).Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document. b).To provide seamless/uninterrupted mobile coverage (2G/3G/4G/5G) in selected tunnel and underground station/section of Maha-Metro. c).To augment non-operational revenue of Maha-Metro through Licensing	**5.1 Objectives of Bid Document:** a).Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document. b).To provide seamless/uninterrupted mobile coverage (2G/3G/4G/5G) in selected tunnel and underground station/section of Maha-Metro. **The installed hardware/ software shall be 2G/3G/4G compatible. In addition, 5G coverage to be ensured after roll out of 5G services in the entire UG section at no additional cost/ space implication to Maha-Metro.** c).To augment non-operational revenue of Maha-Metro through Licensing.
4	5 - Objective and Scope	5.2 (g), Page No 17	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier.	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier. ***If Bidder is able to establish unavailbility of the 3rd operator, penalty may be waived off by the Employer on detailed review/assesment.***

Sl. No.	Section	Clause No. / Page no.	Existing Description	Revised Description
5	5 - Objective and Scope:	5.2 (p), Page 19	The Selected Bidder shall first utilize the telecommunication infrastructure of Maha-Metro on commercial terms wherever technically feasible before considering alternate facilities.	Clause stands deleted.
6	6 - General Terms for Grant of License	6.8, Page 21	License Fee: The Selected Bidder shall pay to Maha-Metro as per the LOA issued and executed Agreement, quarterly in advance, all payments requested as per rates indicated in the table.	The revised table is provided in Annexure-2 of Corrigendum-IV (Part-B).
7	Annexure-10 6 - License Fee:	6.1, Page 79	The Licensee shall pay to Maha-Metro for Five (5) stations as per LOA and Agreement, quarterly in advance, all payments requested as per details and rates indicated in the table below-	The revised table is provided in Annexure-3 of Corrigendum-IV (Part-B).
8	Chapter-7, Instruction to Bidder	7.19.3, Page 34	If the Bidder fails to submit the scanned copy at the aforesaid (above) or fails to submit the original bank guarantee, his bid shall not be considered as non-responsive.	If the Bidder fails to submit the scanned copy at the aforesaid (above) or fails to submit the original bank guarantee, his bid shall be considered as non-responsive.
9	Annexure-10 - 2 - Objective and Scope	2.1, Page 74	**2.1 Objectives of Bid Document:** a).Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document. b).To provide seamless/uninterrupted mobile coverage (2G/3G/4G/5G) in selected tunnel and underground station/section of Maha-Metro. c).To augment non-operational revenue of Maha-Metro through Licensing	**2.1 Objectives of Bid Document:** a).Licensing of space for In-Building Solutions (IBS) for Providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in following tunnel section and underground station(s): Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Maharashtra Metro Rail Corporation Limited as per terms and conditions of this Bid Document. b).To provide seamless/uninterrupted mobile coverage (2G/3G/4G/5G) in selected tunnel and underground station/section of Maha-Metro. ***The installed hardware/ software shall be 2G/3G/4G compatible. In addition, 5G coverage to be ensured after roll out of 5G services in the entire UG section at no additional cost/ space implication to Maha-Metro.*** c).To augment non-operational revenue of Maha-Metro through Licensing.
10	Annexure-10 - 2 - Objective and Scope	2.2 (g), Page No 75	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier. Further, the agreement between Licensee and the operators shall cease in case of termination of License Agreement entered between Licensee and Maha-Metro. In case licensee fails to comply to the provision of tie ups with three (3) mobile operators as described above, Maha-Metro reserves the right to ask individual/group of mobile operators to propagate their signals in licensed premises over the same infrastructure provided by the Licensee.	Maximum three operators shall be allowed as per this Bid Document to carry out the Permitted Activity. The Licensee shall obtain prior permission from Maha-Metro to include/exclude any service provider in the IBS. Inclusion of additional telecom operator, above limit of 3 (three), shall increase the License Fee by 20% for each new telecom operator. The Licensee shall endeavor to have tie-ups with all mobile service providers of Pune zone for the authority to receive their signals and propagate them. However, tie-up with at least two (2) mobile service providers shall be mandatory at the time of bid submission. Documentary proof like MOU, Contract-Agreement, Letter of Intent etc. shall be submitted along with bid document. Non-provisioning of mobile signals, as above, shall be treated as Material Breach of Contract/Event of Default on the part of Licensee. Licensee shall attain minimum Three (3) Mobile service Providers within Twelve (12) Months of commencement of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, otherwise a penalty of Rs. 5,000 per month per station shall be levied. If the Licensee fails to attain minimum three mobile service providers even after 24 months of Revenue Operating Date (ROD) or commencement of License fee, whichever is later, then the penalty shall be increased to Rs. 10,000 per month per station throughout the contract period or propagation of signals in the licensed premises by third mobile operator, whichever is earlier. ***If Bidder is able to establish unavailbility of the 3rd operator, penalty may be waived off by the Employer on detailed review/assesment.*** Further, the agreement between Licensee and the operators shall cease in case of termination of License Agreement entered between Licensee and Maha-Metro. In case licensee fails to comply to the provision of tie ups with three (3) mobile operators as described above, Maha-Metro reserves the right to ask individual/group of mobile operators to propagate their signals in licensed premises over the same infrastructure provided by the Licensee.

<table>
<tr><th>Sl. No.</th><th>Section</th><th>Clause No. / Page no.</th><th>Existing Description</th><th>Revised Description</th></tr>
<tr><td>11</td><td>Annexure-10 -
2 - Objective and Scope</td><td>2.2 (p), Page 77</td><td>The Selected Bidder shall first utilize the telecommunication infrastructure of Maha-Metro on commercial terms wherever technically feasible before considering alternate facilities.</td><td>Clause stands deleted.</td></tr>
<tr><td>12</td><td>Annexure-1</td><td>Page 44</td><td>Details of Location
<table><tr><th rowspan="2">Schedule</th><th rowspan="2">Section Name</th><th rowspan="2">Stn Sr.</th><th rowspan="2">Metro Station</th><th colspan="2">Chainage in m</th><th rowspan="2">Tunnel Length (In Mtrs)</th></tr><tr><th>From</th><th>To</th></tr><tr><td rowspan="8">1.</td><td rowspan="8">Under ground Metro Stations</td><td></td><td>Ramp</td><td>10300</td><td>10431</td><td>131</td></tr><tr><td>1</td><td>Shivajinagar</td><td>10431</td><td>11806</td><td>1375</td></tr><tr><td>2</td><td>Civil Court</td><td>11806</td><td>12756</td><td>950</td></tr><tr><td>3</td><td>Budhwar Peth</td><td>12756</td><td>13609</td><td>313</td></tr><tr><td>4</td><td>Mandai</td><td>13609</td><td>14608</td><td>999</td></tr><tr><td>5</td><td>Swargate</td><td>14608</td><td>16097</td><td>1489</td></tr><tr><td colspan="2">End of Tunnel</td><td>16097</td><td>16447</td><td>350</td></tr><tr><td colspan="2">5 Nos. of Stations</td><td>Total</td><td colspan="2">6,147 Mtrs. (Tunnel Length) + (Station Box)</td></tr></table></td><td>Details of Location
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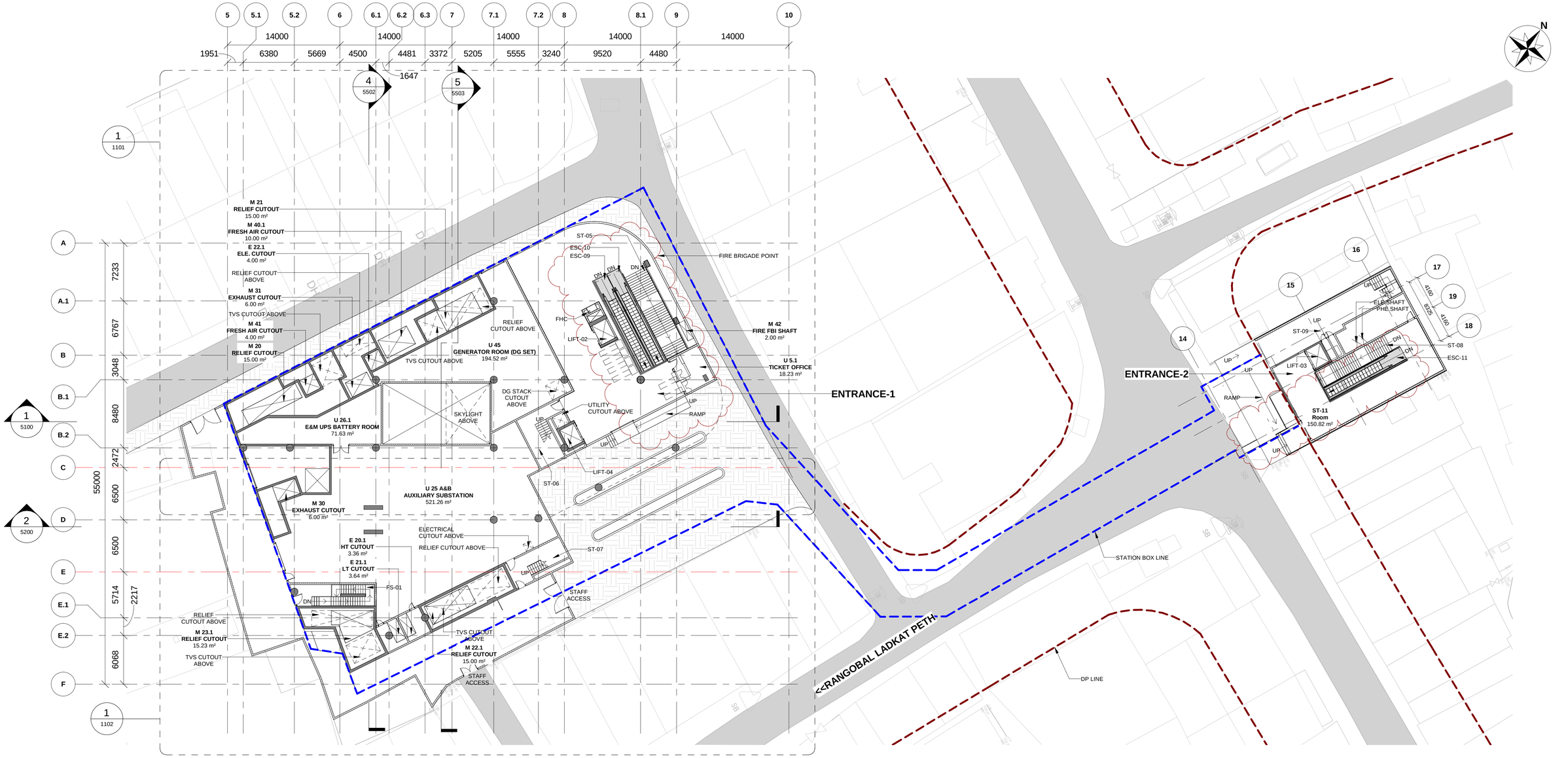
In addition to the Details of Location, Drawings of Stations & Tunnel are added as Annexure-1(a) of Corrigendum-IV (Part-B).</td></tr>
<tr><td>13</td><td>6 - General Terms for Grant of License</td><td>6.6, Page 21</td><td>Fitment Period: Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided.</td><td>Fitment Period: Licensee shall be provided with <u>45 days</u> fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of <u>45 days</u> will be provided.</td></tr>
<tr><td>14</td><td>5 - Tenure of License Agreement</td><td>5.3, Page 79</td><td>Fitment Period: Licensee shall be provided with 30 days fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of 30 days will be provided.</td><td>Fitment Period: Licensee shall be provided with <u>45 days</u> fitment period. Fitment period shall commence from handing over of concerned station. The Licensee shall complete its fitment in all respects within the specified fitment period. In case of handing over of any new additional station on same section, fitment period of <u>45 days</u> will be provided.</td></tr>
<tr><td>15</td><td>6 - General Terms for Grant of License</td><td>6.19, Page 25</td><td>Stages of Activity</td><td>The revised table is provided in Annexure-4 of Corrigendum-IV (Part-B).</td></tr>
<tr><td>16</td><td>Annexure-10</td><td>10, Page 85</td><td>Stages of Activity</td><td>The revised table is provided in Annexure-5 of Corrigendum-IV (Part-B).</td></tr>
</table>

Annexure-1(a)

(Link attached with for all stations and tunnel drawings)

TO SWARGATE STATION

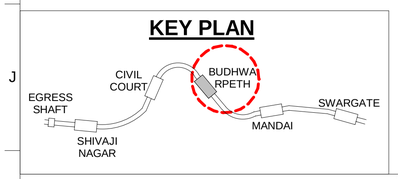
TO SHIVAJI NAGAR STATION



1 GROUND LEVEL PLAN

1100 — Scale: 1 : 250

KEY PLAN



ROOM SCHEDULE- ENTRY-1 PLINTH LEVEL

Number	Name	Area
-	UNPAID AREA	376.72 m²
E 20.1	HT CUTOUT	3.36 m²
E 21.1	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22.1	RELIEF CUTOUT	15.00 m²
M 23.1	RELIEF CUTOUT	15.23 m²
M 30	EXHAUST CUTOUT	6.00 m²
M 31	EXHAUST CUTOUT	6.00 m²
M 40.1	FRESH AIR CUTOUT	10.00 m²
M 41	FRESH AIR CUTOUT	4.00 m²
M 42	FIRE FBI SHAFT	2.00 m²
ST-11	Room	150.82 m²
U 5.1	TICKET OFFICE	18.23 m²
U 25 A&B	AUXILIARY SUBSTATION	521.26 m²
U 26.1	E&M UPS BATTERY ROOM	71.63 m²
U 45	GENERATOR ROOM (DG SET)	194.52 m²

REVISION NOTES:

DUE TO ESCALATOR SIZE CHANGE THERE HAS BEEN A SHIFT OF 320MM IN THE COLUMN TOWARDS STAIRCASE AT ENTRY-1 (EARLIER 2550 & NOW 2870) AND A SAMLL SHIFT OF 135MM IN WALL TOWARDS ESCALATOR AND STAIRCASE IN ENTRY-2.(EARLIER 4100 & NOW 3965)

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
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REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "……REV……" APPROVED ON DATE ……

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:		SIGN:	
DATE:	DATE:	DATE:		DATE:	
NAME:	NAME:	NAME:		NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY	

N/A

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

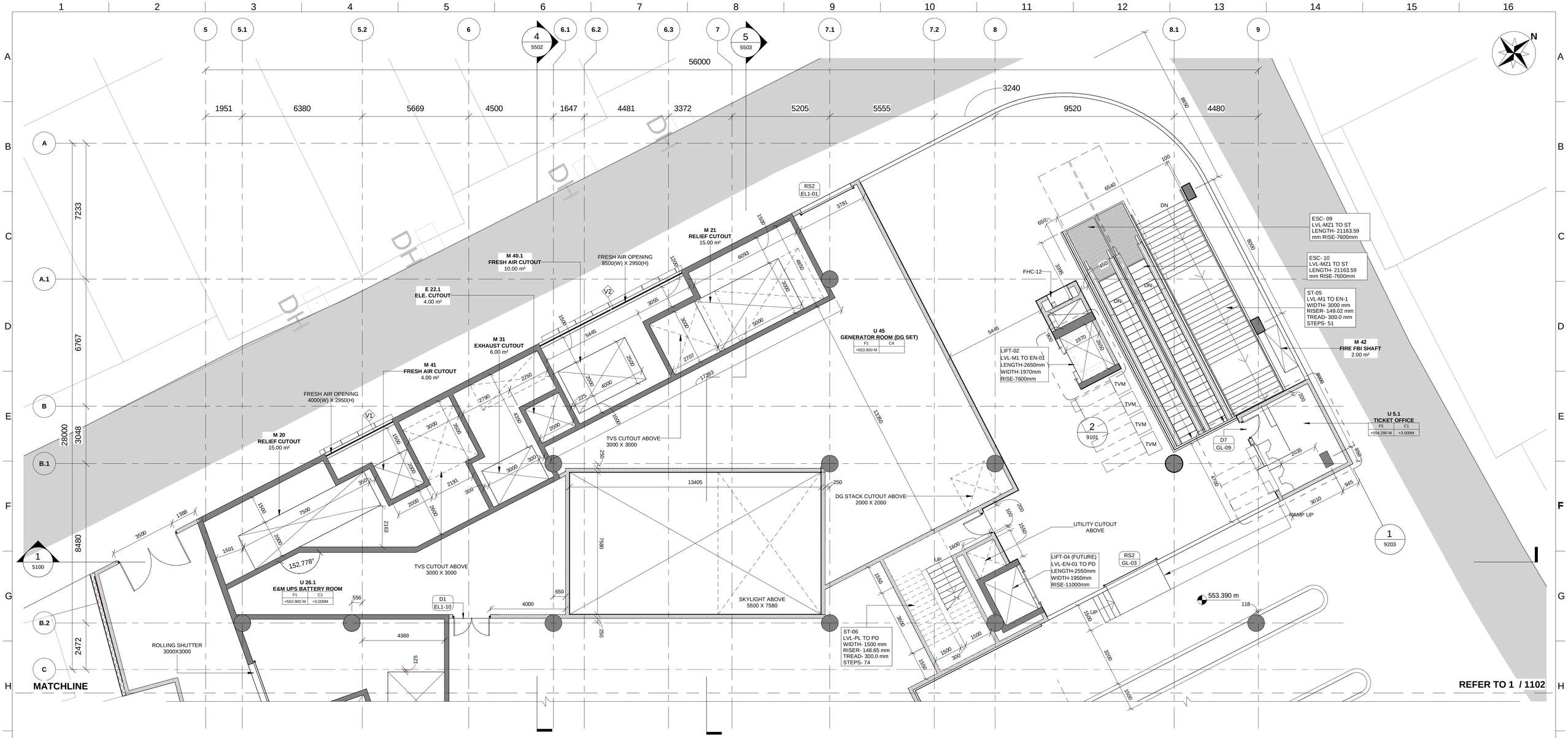
TITLE: **GROUND LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - GL - DRP - 1100

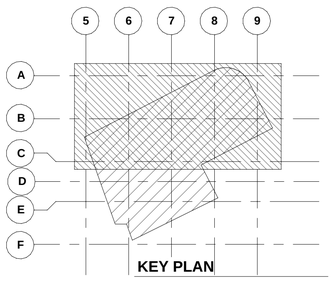
ARCHITECTURE

plot scale 50mm



1 GROUND LEVEL PLAN (1 OF 2)

1101 | Scale: 1 : 100



Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE- ENTRY-1 PLINTH LEVEL

Number	Name	Area
-	UNPAID AREA	376.72 m²
E 20.1	HT CUTOUT	3.36 m²
E 21.1	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
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U 25 A&B	AUXILIARY SUBSTATION	521.26 m²
U 26.1	E&M UPS BATTERY ROOM	71.63 m²
U 45	GENERATOR ROOM (DG SET)	194.52 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Louver Schedule

Mark	Height	Length	Sill Level	Level
V1	3500	4000	1400	ENTRY-1 PLINTH LEVEL
V2	3500	8500	1400	ENTRY-1 PLINTH LEVEL
V3	3050	6000	1850	ENTRY-1 PLINTH LEVEL
V4	3100	9400	2350	ANCILLARY LEVEL
V5	3100	5000	2350	ANCILLARY LEVEL
V6	3100	9400	2350	ANCILLARY LEVEL
V7a	4900	2706	250	ANCILLARY LEVEL
V7b	4900	3506	250	ANCILLARY LEVEL
V8	4900	2600	250	ANCILLARY LEVEL
V9	4900	3381	250	ANCILLARY LEVEL

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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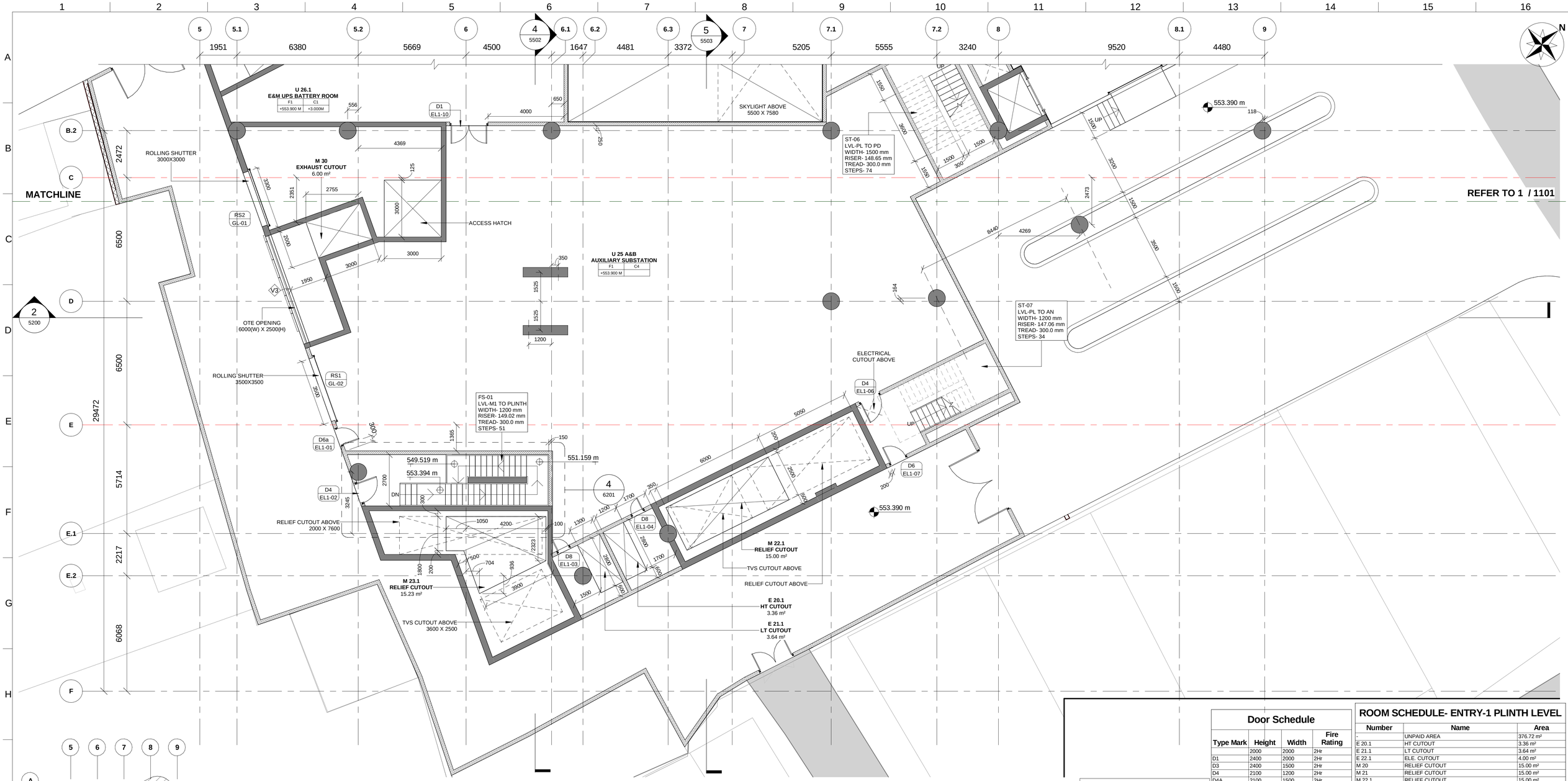
SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - GL - DRP - 1101

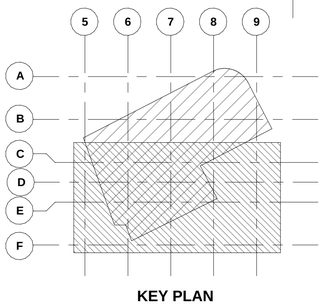
ARCHITECTURE

plot scale 50mm



1 GROUND LEVEL PLAN (2 OF 2)

1102 | Scale: 1 : 100



KEY PLAN

Louver Schedule

Mark	Height	Length	Sill Level	Level
V1	3500	4000	1400	ENTRY-1 PLINTH LEVEL
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V4	3100	9400	2350	ANCILLARY LEVEL
V5	3100	5000	2350	ANCILLARY LEVEL
V6	3100	9400	2350	ANCILLARY LEVEL
V7a	4900	2706	250	ANCILLARY LEVEL
V7b	4900	3506	250	ANCILLARY LEVEL
V8	4900	2600	250	ANCILLARY LEVEL
V9	4900	3381	250	ANCILLARY LEVEL

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE- ENTRY-1 PLINTH LEVEL

Number	Name	Area
-	UNPAID AREA	376.72 m²
E 20.1	HT CUTOUT	3.36 m²
E 21.1	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22.1	RELIEF CUTOUT	15.00 m²
M 23.1	RELIEF CUTOUT	15.23 m²
M 30	EXHAUST CUTOUT	6.00 m²
M 31	EXHAUST CUTOUT	6.00 m²
M 40.1	FRESH AIR CUTOUT	10.00 m²
M 41	FRESH AIR CUTOUT	4.00 m²
M 42	FIRE FBI SHAFT	2.00 m²
ST-11	Room	150.82 m²
U 5.1	TICKET OFFICE	18.23 m²
U 25 A&B	AUXILIARY SUBSTATION	521.26 m²
U 26.1	E&M UPS BATTERY ROOM	71.63 m²
U 45	GENERATOR ROOM (DG SET)	194.52 m²

AECOM-SYSTRA-CEG

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "……REV……" APPROVED ON DATE ……

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **GROUND LEVEL PLAN (2 OF 2)**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:

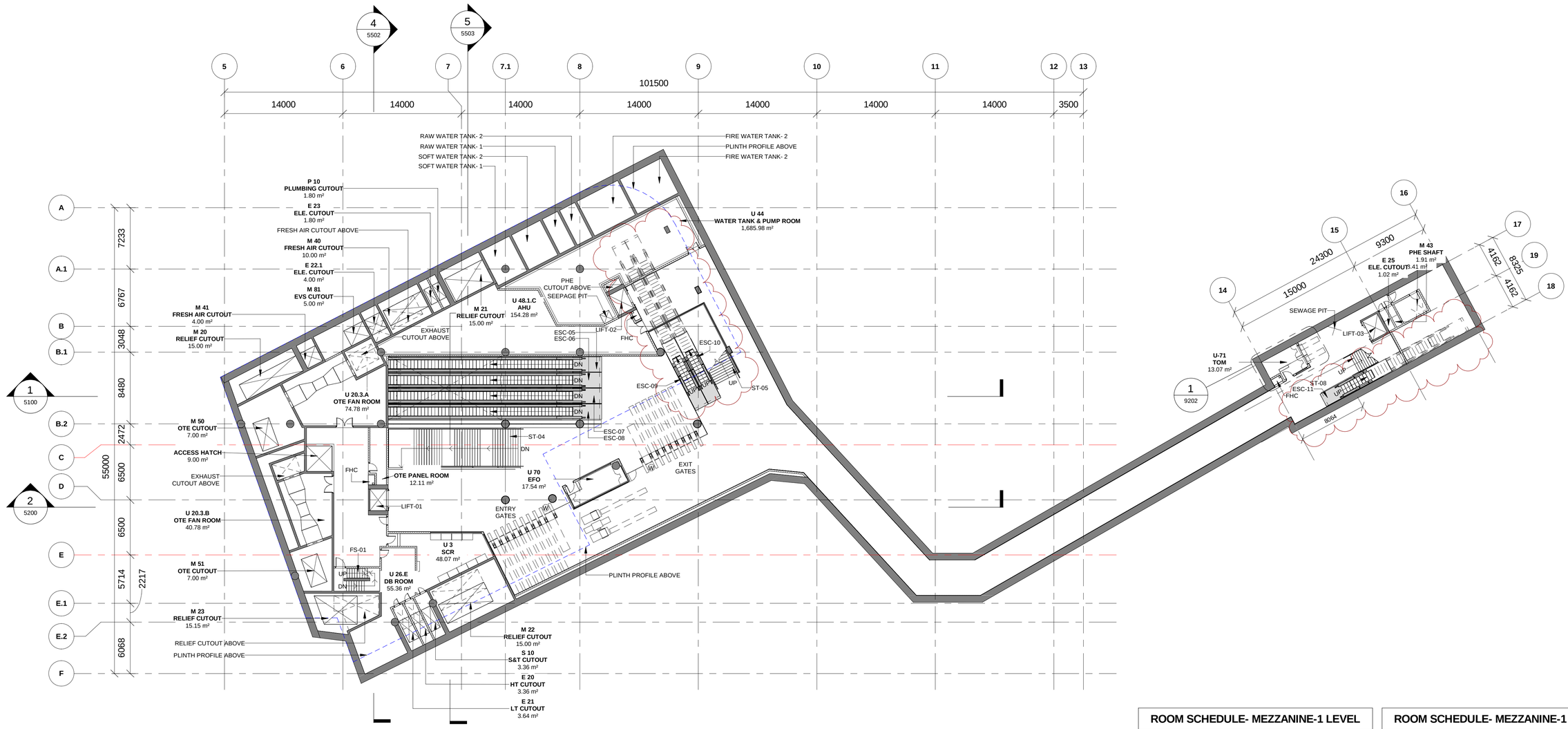
DRG NO: P4D02 - ACM - AR - PRM - BDP - GL - DRP - 1102 | B03

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

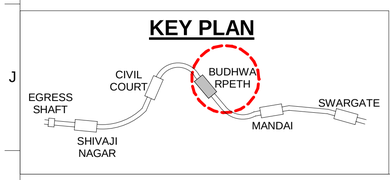
TO SHIVAJI NAGAR STATION



1 MEZZANINE 1 LEVEL PLAN

1200 — Scale: 1 : 250

KEY PLAN



ROOM SCHEDULE- MEZZANINE-1 LEVEL

Number	Name	Area
	ACCESS HATCH	9.00 m²
-	DB ROOM	8.41 m²
-	BOH CORRIDOR	83.88 m²
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
E 23	ELE. CUTOUT	1.80 m²
E 25	ELE. CUTOUT	1.02 m²
ES-01	EMERGENCY STAIRCASE	13.66 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 41	FRESH AIR CUTOUT	4.00 m²
M 43	PHE SHAFT	1.91 m²

ROOM SCHEDULE- MEZZANINE-1 LEVEL

Number	Name	Area
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 81	EVS CUTOUT	5.00 m²
P 10	PLUMBING CUTOUT	1.80 m²
S 10	S&T CUTOUT	3.36 m²
U 3	SCR	48.07 m²
U 20.3.A	OTE FAN ROOM	74.78 m²
U 20.3.B	OTE FAN ROOM	40.78 m²
U 20.3.B	OTE PANEL ROOM	12.11 m²
U 26.E	DB ROOM	55.36 m²
U 44	WATER TANK & PUMP ROOM	1,685.98 m²
U 48.1.C	AHU	154.28 m²
U 70	EFO	17.54 m²
U-71	TOM	13.07 m²

REVISION NOTES:

DUE TO ESCALATOR SIZE CHANGE THERE HAS BEEN A SHIFT OF 320MM IN THE COLUMN TOWARDS STAIRCASE AT ENTRY-1 (EARLIER 2550 & NOW 2870) AND A SAMLL SHIFT OF 135MM IN WALL TOWARDS ESCALATOR AND STAIRCASE IN ENTRY-2.(EARLIER 4100 & NOW 3965)

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

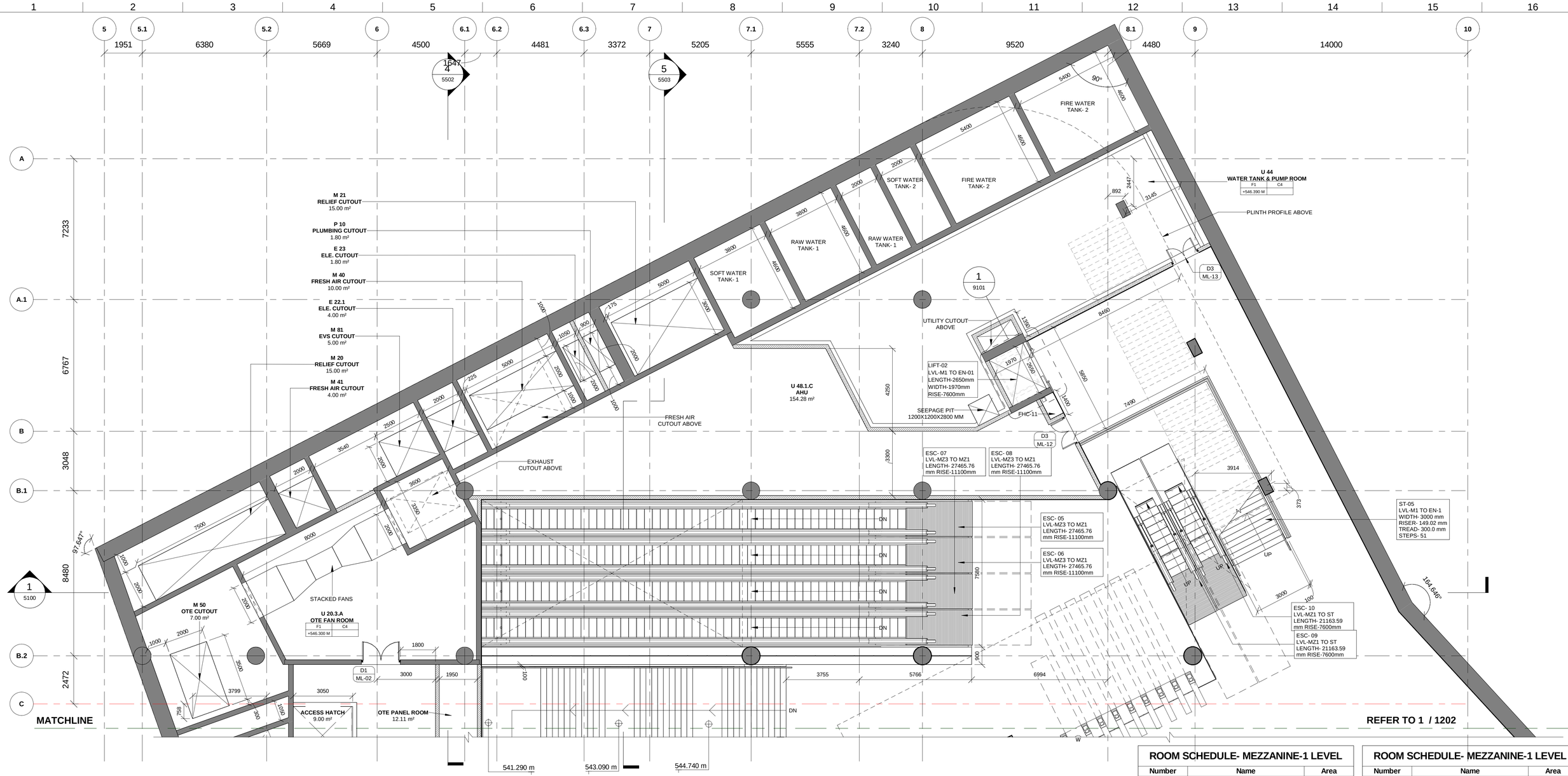
TITLE: **MEZZANINE 1 LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - M1 - DRP - 1200

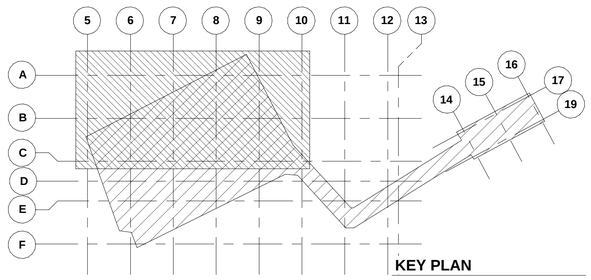
ARCHITECTURE

plot scale 50mm



1 MEZZANINE 1 LEVEL PLAN (1 OF 3)

1201 Scale: 1 : 100



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE- MEZZANINE-1 LEVEL

Number	Name	Area
	ACCESS HATCH	9.00 m²
-	DB ROOM	8.41 m²
-	BOH CORRIDOR	83.88 m²
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
E 23	ELE. CUTOUT	1.80 m²
E 25	ELE. CUTOUT	1.02 m²
ES-01	EMERGENCY STAIRCASE	13.66 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 41	FRESH AIR CUTOUT	4.00 m²
M 43	PHE SHAFT	1.91 m²

ROOM SCHEDULE- MEZZANINE-1 LEVEL

Number	Name	Area
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 81	EVS CUTOUT	5.00 m²
P 10	PLUMBING CUTOUT	1.80 m²
S 10	S&T CUTOUT	3.36 m²
U 3	SCR	48.07 m²
U 20.3.A	OTE FAN ROOM	74.78 m²
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AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:		SIGN:
DATE:	DATE:	DATE:		DATE:
NAME:	NAME:	NAME:		NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

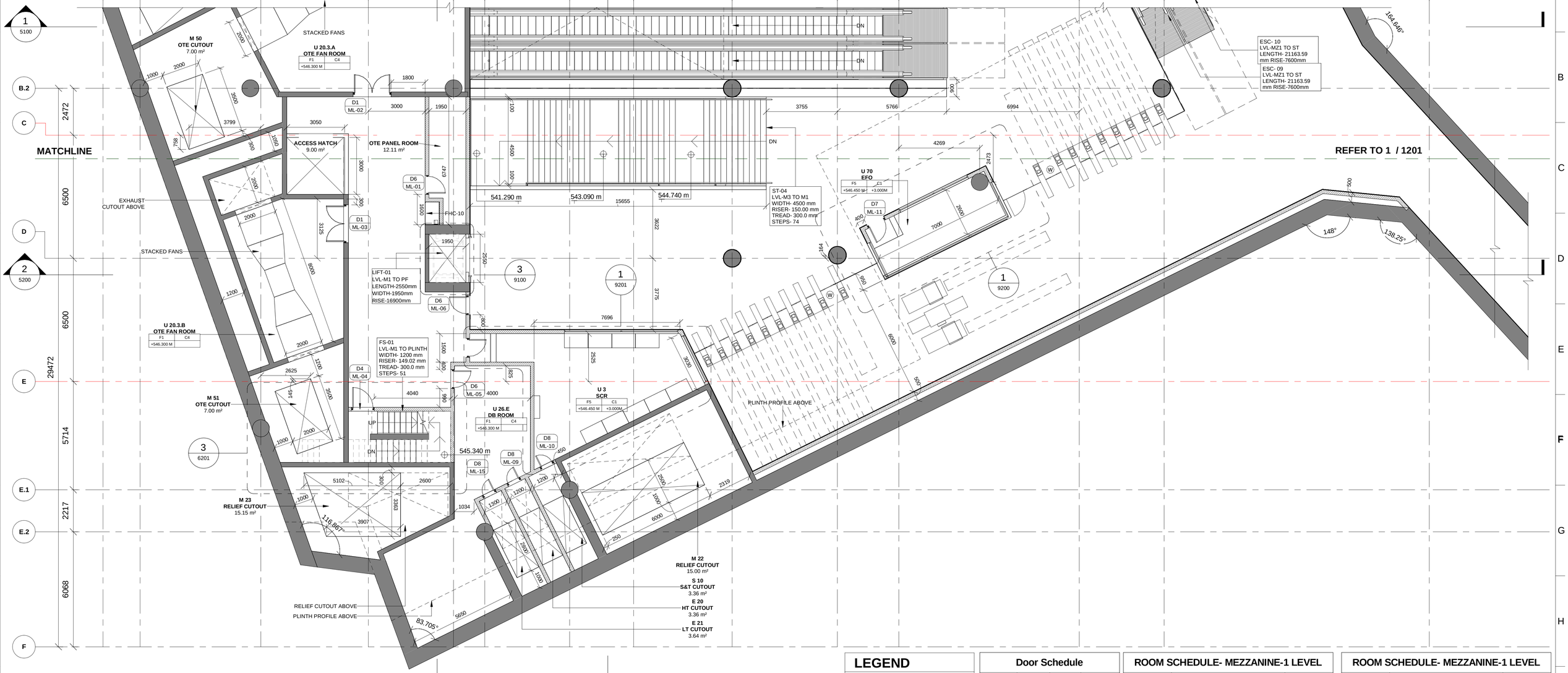
TITLE: **MEZZANINE 1 LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - M1 - DRP - 1201

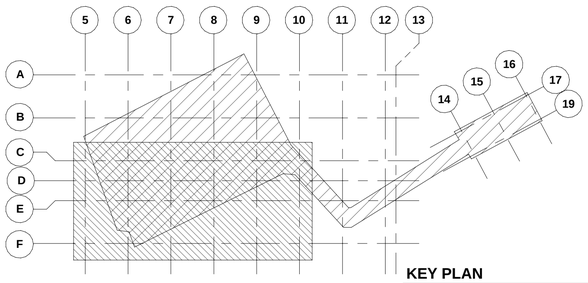
ARCHITECTURE

plot scale 50mm



1 MEZZANINE 1 LEVEL PLAN (2 OF 3)

1202 — Scale: 1 : 100



KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
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ROOM SCHEDULE- MEZZANINE-1 LEVEL

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M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
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ROOM SCHEDULE- MEZZANINE-1 LEVEL

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

NOTES:

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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

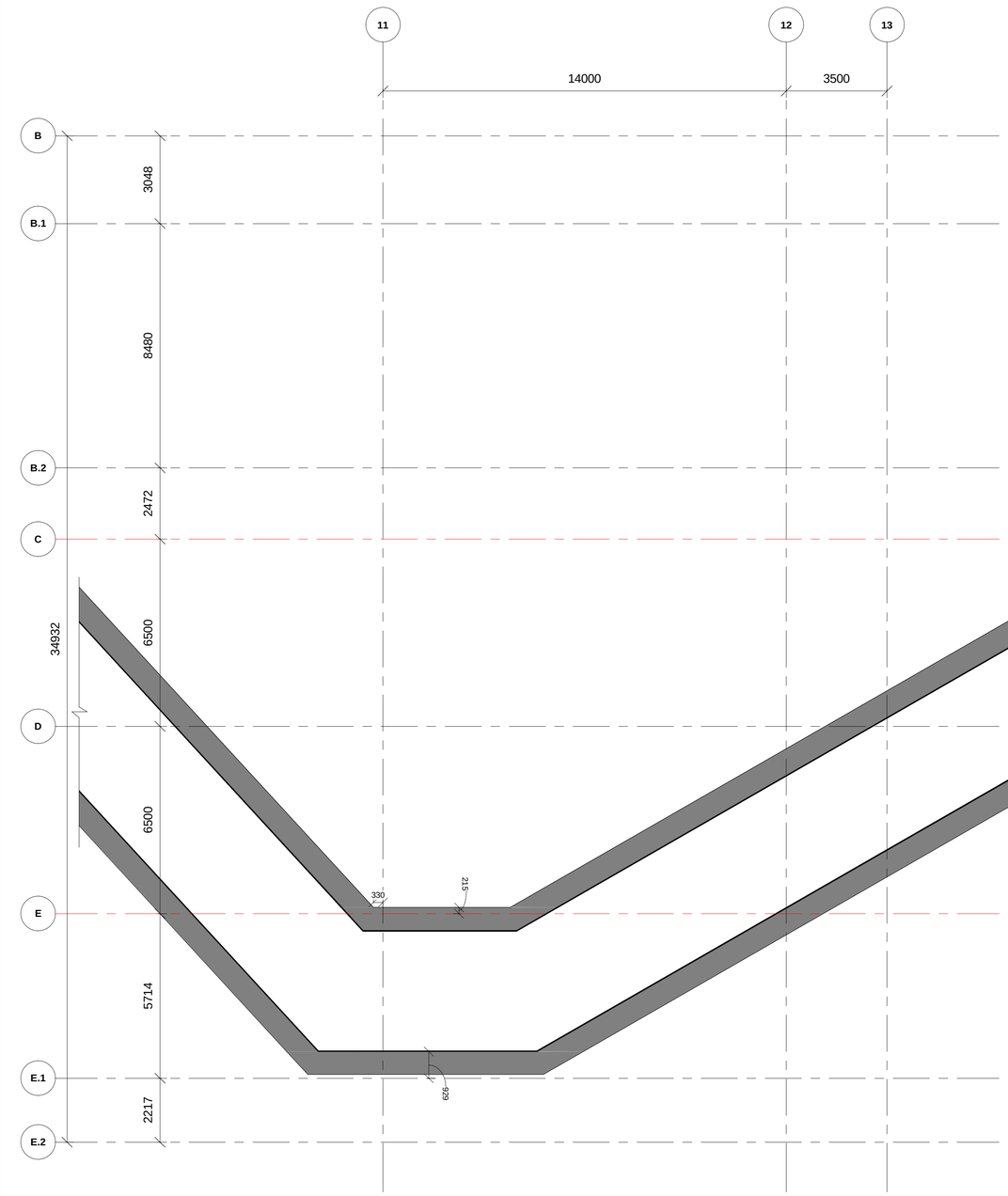
TITLE: **MEZZANINE 1 LEVEL PLAN (2 OF 3)**

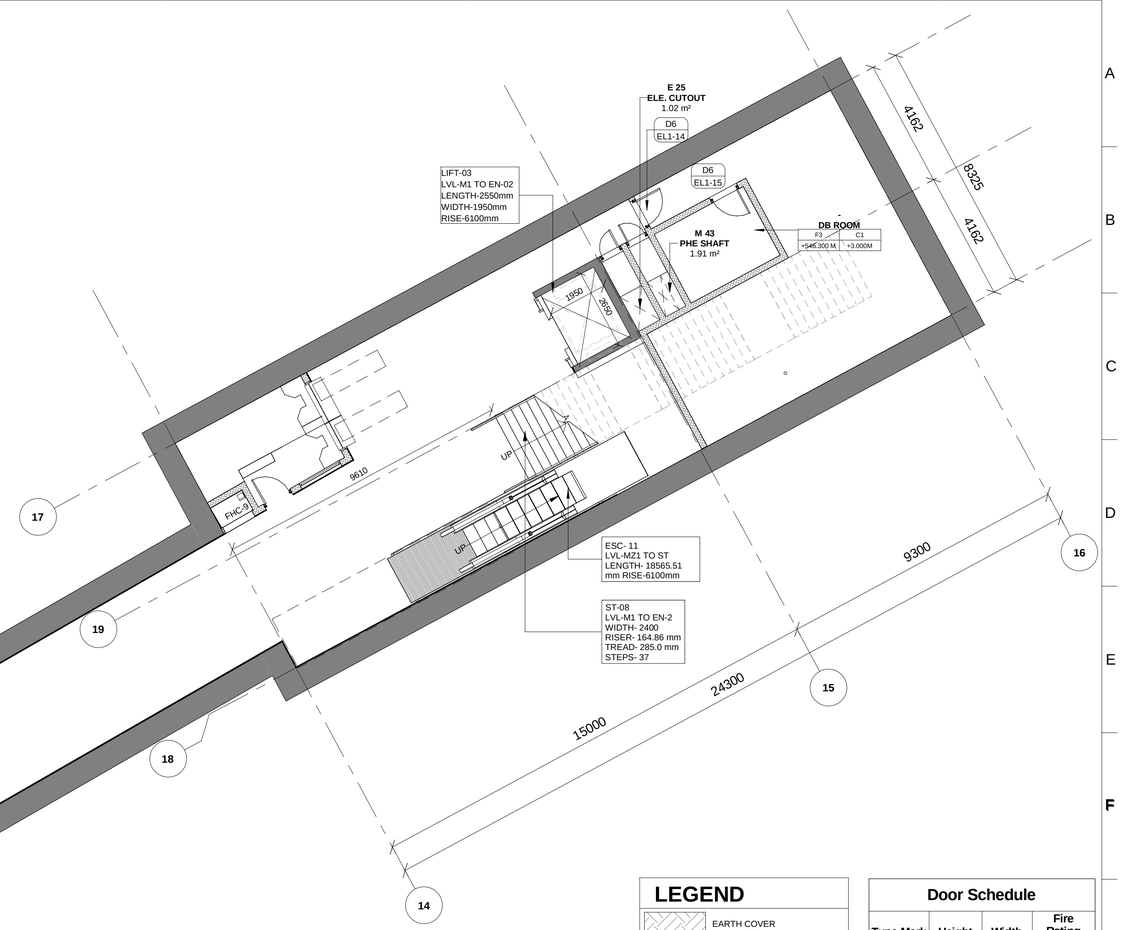
SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - M1 - DRP - 1202

ARCHITECTURE

plot scale 50mm

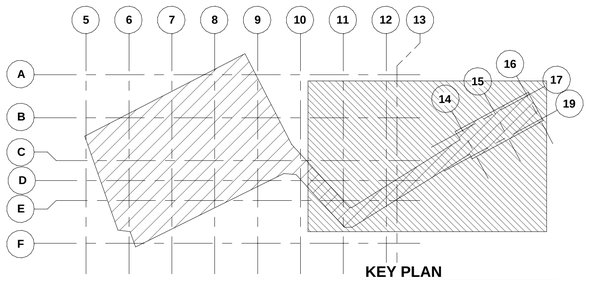




1 MEZZANINE 1 LEVEL PLAN (3 OF 3)

1203

Scale: 1 : 100



KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE- MEZZANINE-1 LEVEL

Number	Name	Area
	ACCESS HATCH	9.00 m²
-	DB ROOM	8.41 m²
-	BOH CORRIDOR	83.88 m²
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
E 23	ELE. CUTOUT	1.80 m²
E 25	ELE. CUTOUT	1.02 m²
ES-01	EMERGENCY STAIRCASE	13.66 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 41	FRESH AIR CUTOUT	4.00 m²
M 43	PHE SHAFT	1.91 m²

ROOM SCHEDULE- MEZZANINE-1 LEVEL

Number	Name	Area
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 81	EVS CUTOUT	5.00 m²
P 10	PLUMBING CUTOUT	1.80 m²
S 10	S&T CUTOUT	3.36 m²
U 3	SCR	48.07 m²
U 20.3.A	OTE FAN ROOM	74.78 m²
U 20.3.B	OTE FAN ROOM	40.78 m²
U 20.3.B	OTE PANEL ROOM	12.11 m²
U 26.E	DB ROOM	55.36 m²
U 44	WATER TANK & PUMP ROOM	1,685.98 m²
U 48.1.C	AHU	154.28 m²
U 70	EFO	17.54 m²
U-71	TOM	13.07 m²

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AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:		SIGN:
DATE:	DATE:	DATE:		DATE:
NAME:	NAME:	NAME:		NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **MEZZANINE 1 LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

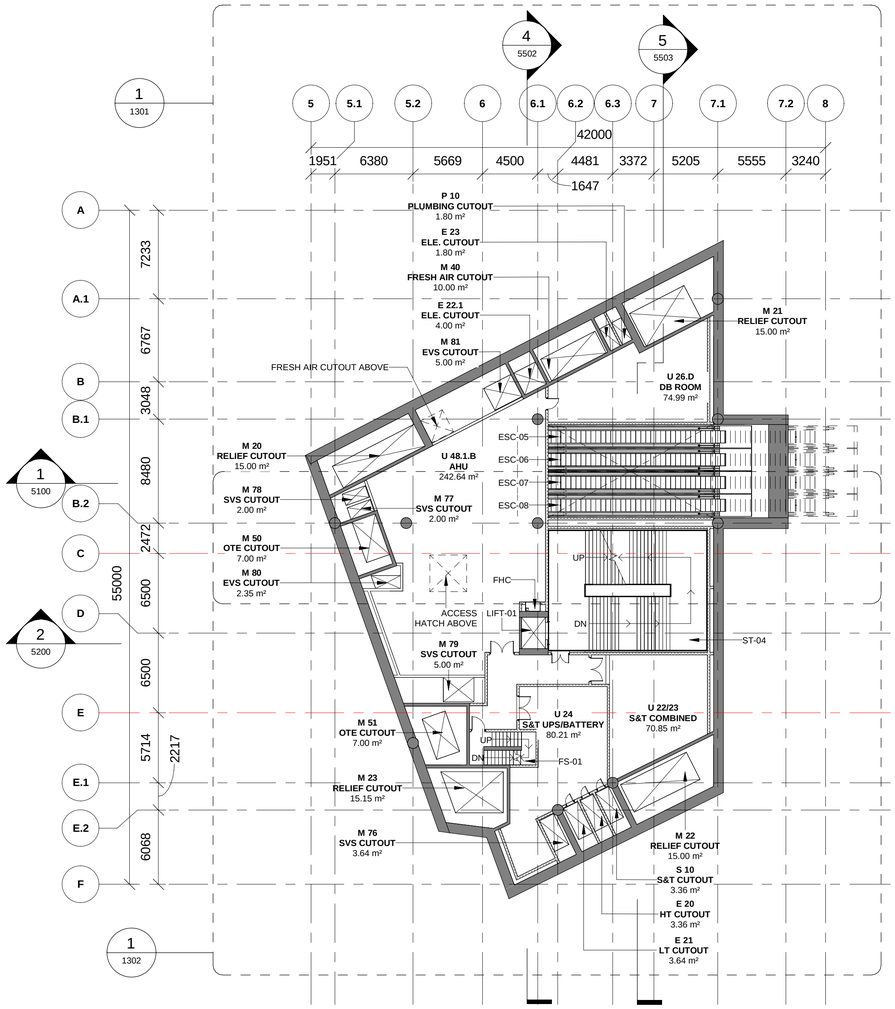
DRG NO: P4D02 - ACM - AR - PRM - BDP - M1 - DRP - 1203

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

TO SHIVAJI NAGAR STATION



1 MEZZANINE 2 LEVEL PLAN

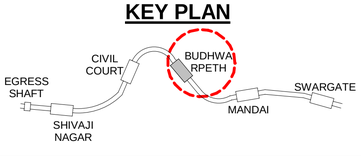
1300

Scale: 1 : 250

ROOM SCHEDULE-...

Number	Name	Area
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
E 23	ELE. CUTOUT	1.80 m²
ES-01	EMERGENCY STAIRCASE	13.66 m²
ES-02	EMERGENCY STAIRCASE	136.50 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 76	SVS CUTOUT	3.64 m²
M 77	SVS CUTOUT	2.00 m²
M 78	SVS CUTOUT	2.00 m²
M 79	SVS CUTOUT	5.00 m²
M 80	EVS CUTOUT	2.35 m²
M 81	EVS CUTOUT	5.00 m²
P 10	PLUMBING CUTOUT	1.80 m²
S 10	S&T CUTOUT	3.36 m²
U 22/23	S&T COMBINED	70.85 m²
U 24	S&T UPS/BATTERY	80.21 m²
U 26.D	DB ROOM	74.99 m²
U 48.1.B	AHU	242.64 m²

KEY PLAN



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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

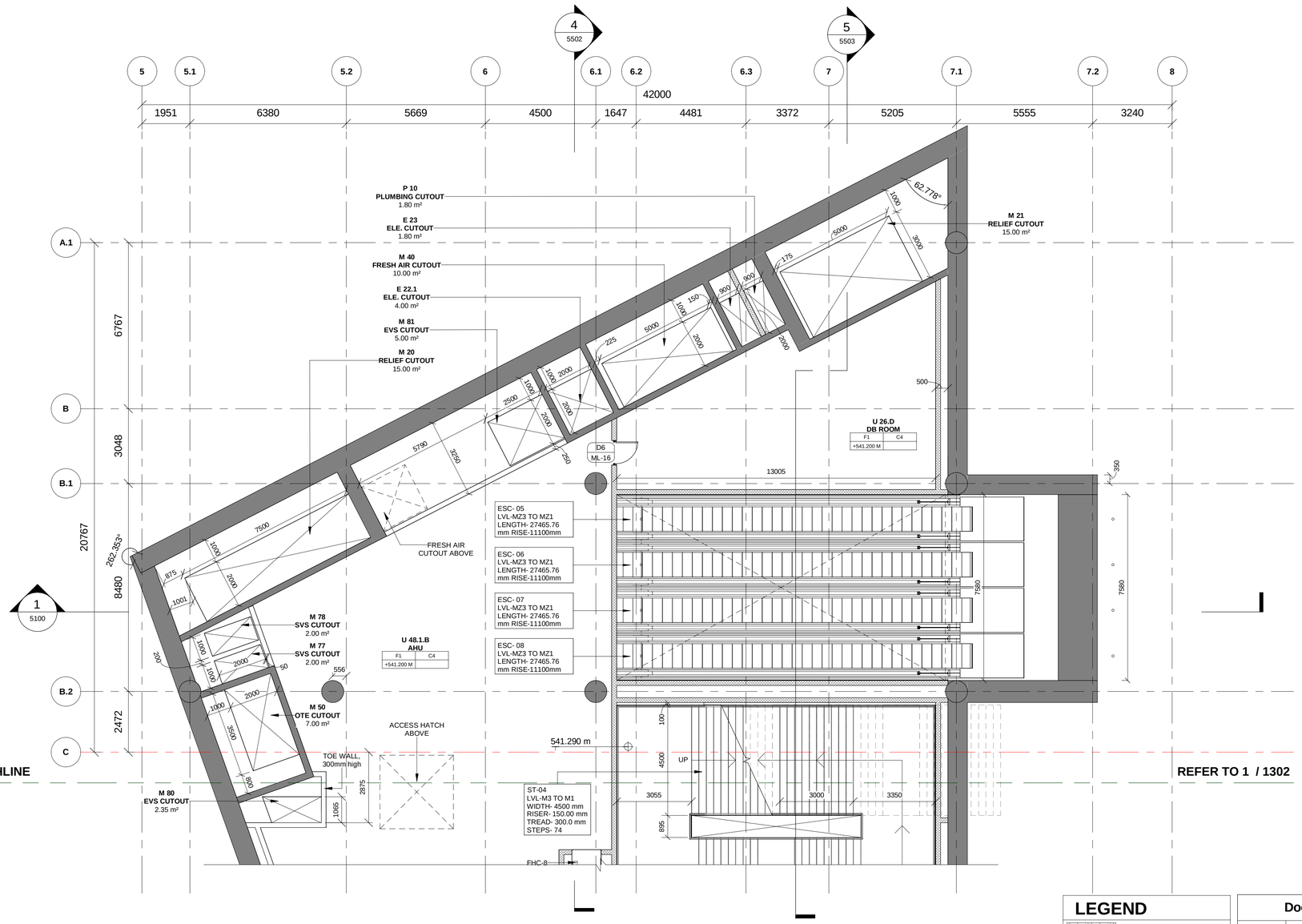
TITLE: **MEZZANINE 2 LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

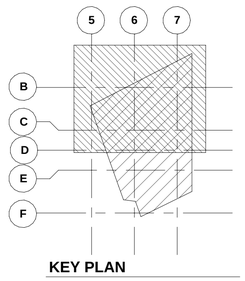
DRG NO: P4D02 - ACM - AR - PRM - BDP - M2 - DRP - 1300

ARCHITECTURE

plot scale 50mm



1 **MEZZANINE 2 LEVEL PLAN (1 OF 2)**
1301 Scale: 1 : 100



KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE-...

Number	Name	Area
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
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ES-01	EMERGENCY STAIRCASE	13.66 m²
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M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 76	SVS CUTOUT	3.64 m²
M 77	SVS CUTOUT	2.00 m²
M 78	SVS CUTOUT	2.00 m²
M 79	SVS CUTOUT	5.00 m²
M 80	EVS CUTOUT	2.35 m²
M 81	EVS CUTOUT	5.00 m²
P 10	PLUMBING CUTOUT	1.80 m²
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N/A

- ☐ Proof checked by GC
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- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

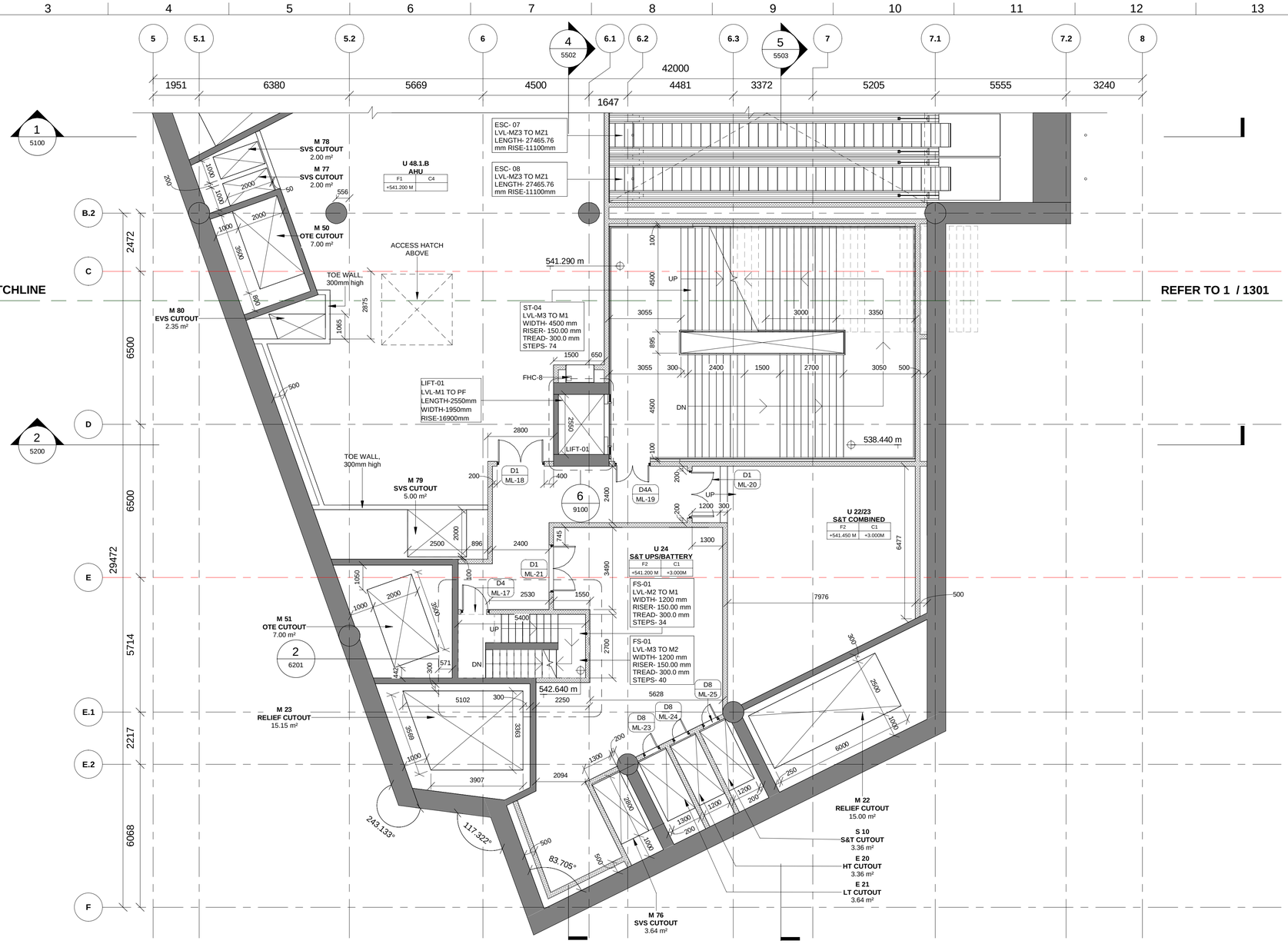
TITLE: **MEZZANINE 2 LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - M2 - DRP - 1301

ARCHITECTURE

plot scale 50mm



1 | MEZZANINE 2 LEVEL PLAN (2 OF 2)

1302 | Scale: 1 : 100

Door Schedule

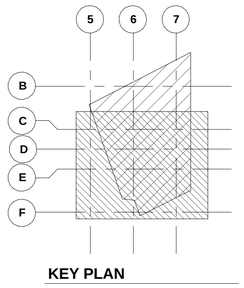
Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE-...

Number	Name	Area
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22.1	ELE. CUTOUT	4.00 m²
E 23	ELE. CUTOUT	1.80 m²
ES-01	EMERGENCY STAIRCASE	13.66 m²
ES-02	EMERGENCY STAIRCASE	136.50 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 76	SVS CUTOUT	3.64 m²
M 77	SVS CUTOUT	2.00 m²
M 78	SVS CUTOUT	2.00 m²
M 79	SVS CUTOUT	5.00 m²
M 80	EVS CUTOUT	2.35 m²
M 81	EVS CUTOUT	5.00 m²
P 10	PLUMBING CUTOUT	1.80 m²
S 10	S&T CUTOUT	3.36 m²
U 22/23	S&T COMBINED	70.85 m²
U 24	S&T UPS/BATTERY	80.21 m²
U 26.D	DB ROOM	74.99 m²
U 48.1.B	AHU	242.64 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB



KEY PLAN

NOTES:

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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV..... " APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **MEZZANINE 2 LEVEL PLAN (2 OF 2)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

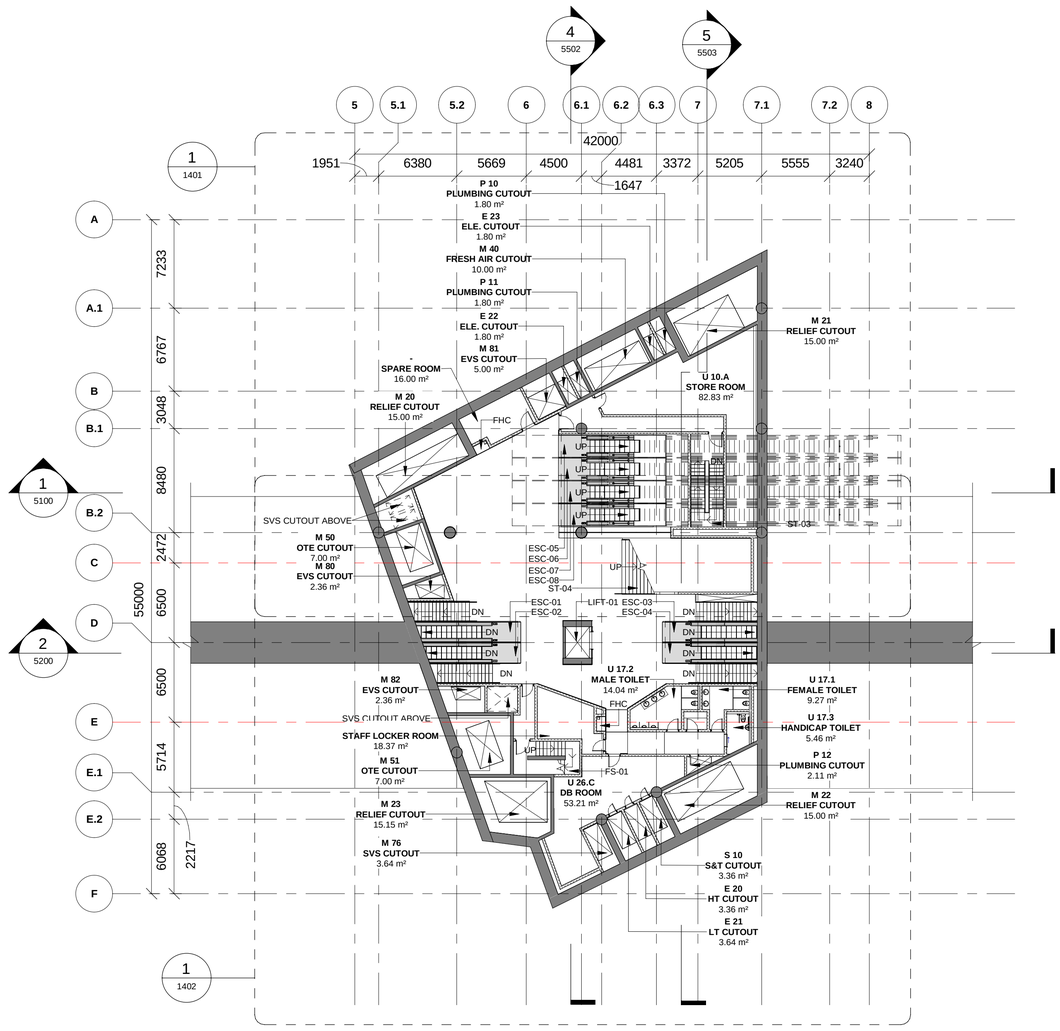
DRG NO: P4D02 - ACM - AR - PRM - BDP - M2 - DRP - 1302

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

TO SHIVAJI NAGAR STATION



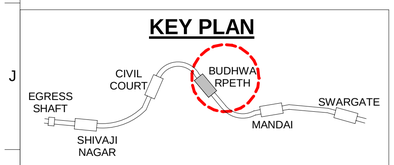
1 MEZZANINE 3 LEVEL PLAN

1400 Scale: 1 : 250

ROOM SCHEDULE- MEZZANINE-3...

Number	Name	Area
-	STAFF LOCKER ROOM	18.37 m²
-	EMERGENCY CORRIDOR	18.81 m²
-	EMERGENCY CORRIDOR	6.23 m²
-	SPARE ROOM	16.00 m²
E 20	HT CUTOUT	3.36 m²
E 21	LT CUTOUT	3.64 m²
E 22	ELE. CUTOUT	1.80 m²
E 23	ELE. CUTOUT	1.80 m²
ES-01	EMERGENCY STAIRCASE	13.66 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 76	SVS CUTOUT	3.64 m²
M 80	EVS CUTOUT	2.36 m²
M 81	EVS CUTOUT	5.00 m²
M 82	EVS CUTOUT	2.36 m²
MS-03	MAINTAINANCE STAIRCASE	20.47 m²
P 10	PLUMBING CUTOUT	1.80 m²
P 11	PLUMBING CUTOUT	1.80 m²
P 12	PLUMBING CUTOUT	2.11 m²
S 10	S&T CUTOUT	3.36 m²
U 10.A	STORE ROOM	82.83 m²
U 17.1	FEMALE TOILET	9.27 m²
U 17.2	MALE TOILET	14.04 m²
U 17.3	HANDICAP TOILET	5.46 m²
U 17.4	CHILD CARE	2.72 m²
U 26.C	DB ROOM	53.21 m²

KEY PLAN



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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

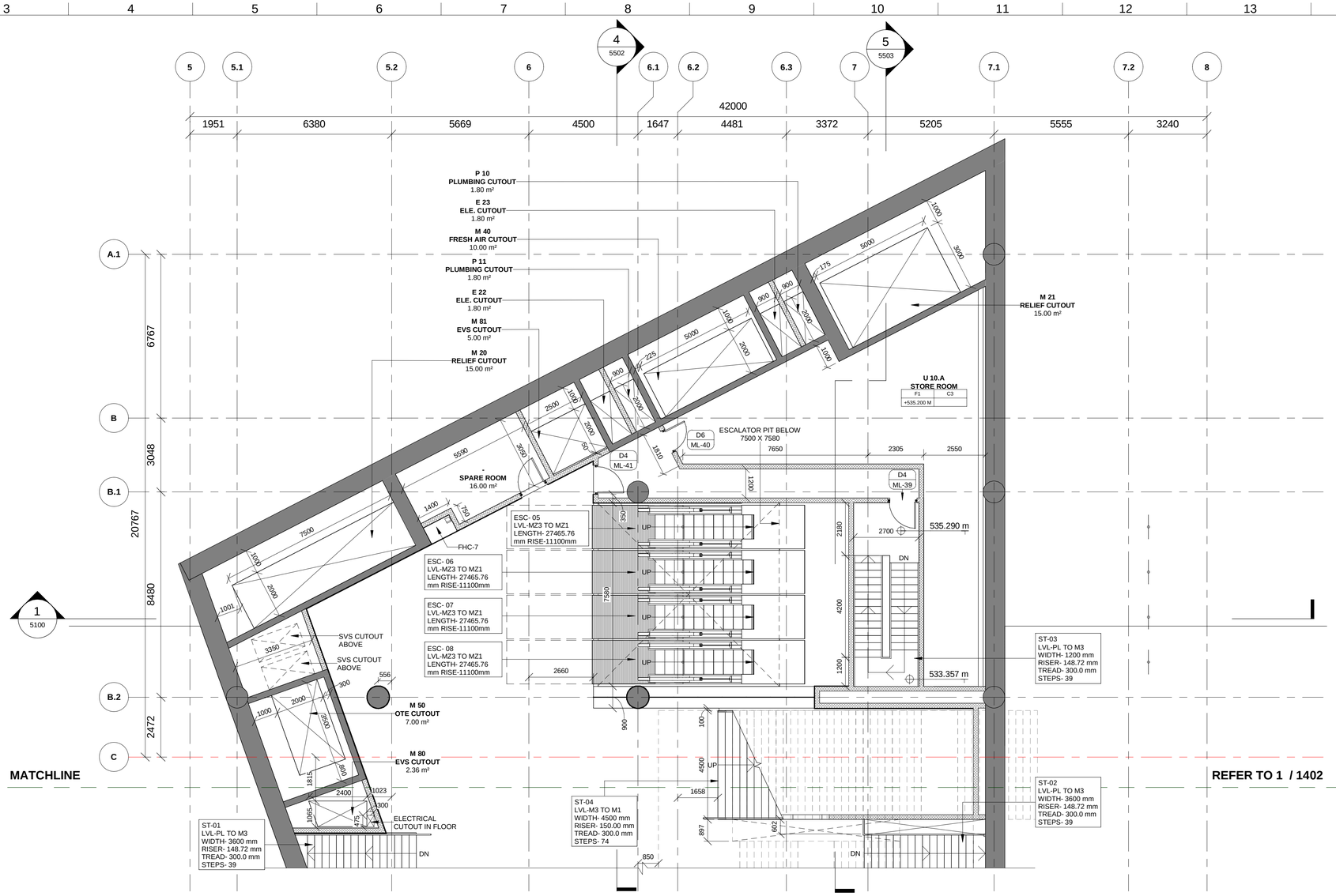
TITLE: **MEZZANINE 3 LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - M3 - DRP - 1400

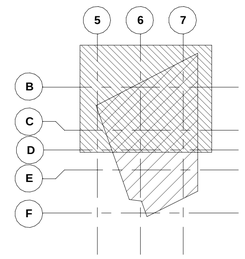
ARCHITECTURE

plot scale 50mm



1 | **MEZZANINE 3 LEVEL PLAN (1 OF 2)**

1401 | Scale: 1 : 100



KEY PLAN

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

ROOM SCHEDULE- MEZZANINE-3...

Number	Name	Area
-	STAFF LOCKER ROOM	18.37 m²
-	EMERGENCY CORRIDOR	18.81 m²
-	EMERGENCY CORRIDOR	6.23 m²
-	SPARE ROOM	16.00 m²
E 20	HT CUTOUT	3.36 m²
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ES-01	EMERGENCY STAIRCASE	13.66 m²
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U 17.4	CHILD CARE	2.72 m²
U 26.C	DB ROOM	53.21 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

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AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:		SIGN:
DATE:	DATE:	DATE:		DATE:
NAME:	NAME:	NAME:		NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

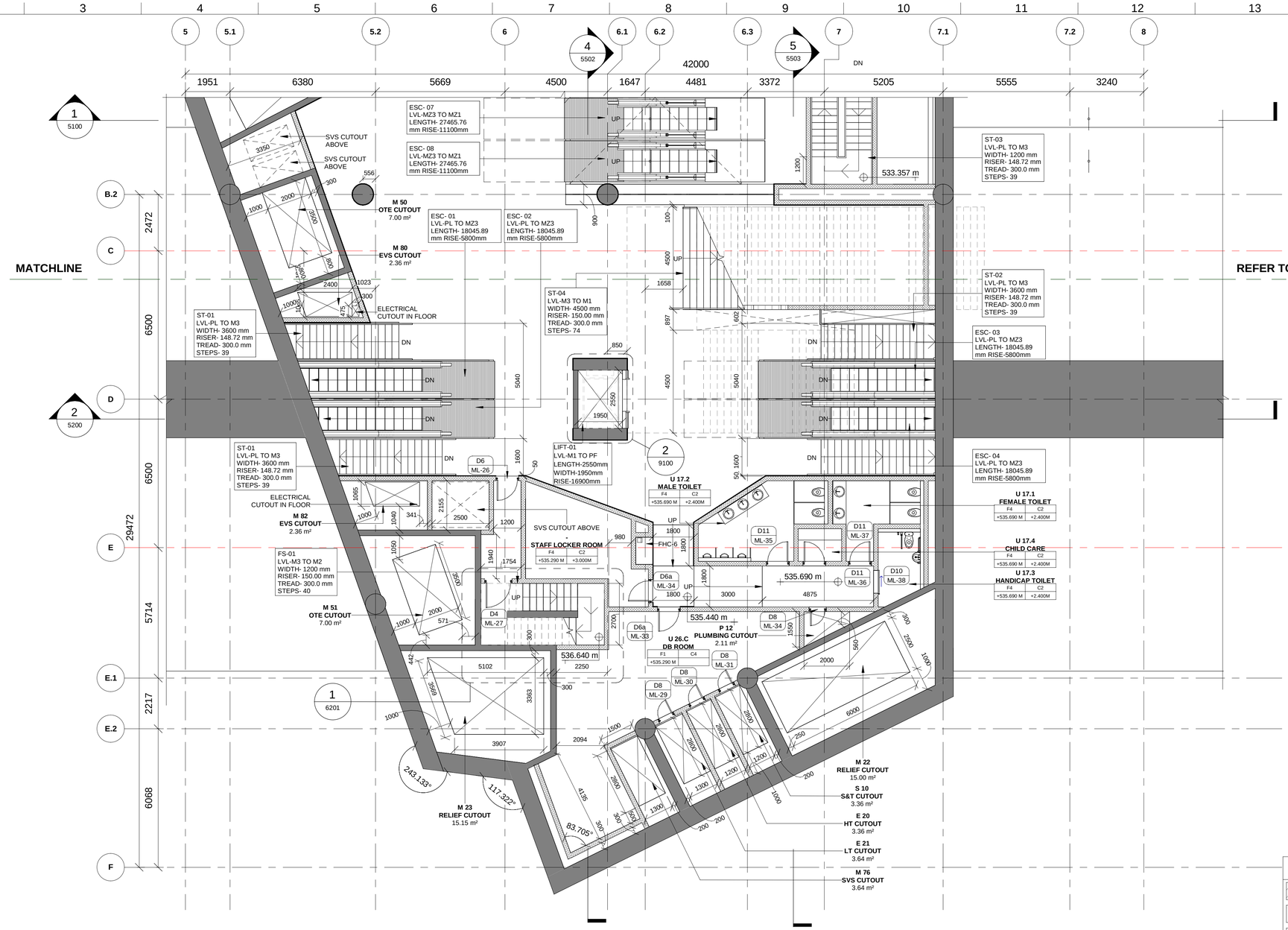
TITLE: **MEZZANINE 3 LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - M3 - DRP - 1401

ARCHITECTURE

plot scale 50mm



1 MEZZANINE 3 LEVEL PLAN (2 OF 2)

1402 Scale: 1 : 100

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
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ROOM SCHEDULE- MEZZANINE-3...

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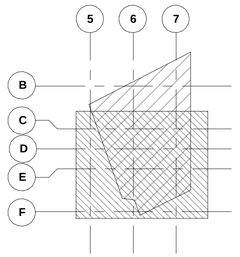
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²
M 22	RELIEF CUTOUT	15.00 m²
M 23	RELIEF CUTOUT	15.15 m²
M 40	FRESH AIR CUTOUT	10.00 m²
M 50	OTE CUTOUT	7.00 m²
M 51	OTE CUTOUT	7.00 m²
M 76	SVS CUTOUT	3.64 m²
M 80	EVS CUTOUT	2.36 m²
M 81	EVS CUTOUT	5.00 m²
M 82	EVS CUTOUT	2.36 m²
MS-03	MAINTAINANCE STAIRCASE	20.47 m²
P 10	PLUMBING CUTOUT	1.80 m²
P 11	PLUMBING CUTOUT	1.80 m²
P 12	PLUMBING CUTOUT	2.11 m²
S 10	S&T CUTOUT	3.36 m²
U 10.A	STORE ROOM	82.83 m²
U 17.1	FEMALE TOILET	9.27 m²
U 17.2	MALE TOILET	14.04 m²
U 17.3	HANDICAP TOILET	5.46 m²
U 17.4	CHILD CARE	2.72 m²
U 26.C	DB ROOM	53.21 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

KEY PLAN



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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:
DATE:		DATE:
NAME:		NAME:
REVIEWED BY		APPROVED BY

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **MEZZANINE 3 LEVEL PLAN (2 OF 2)**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:

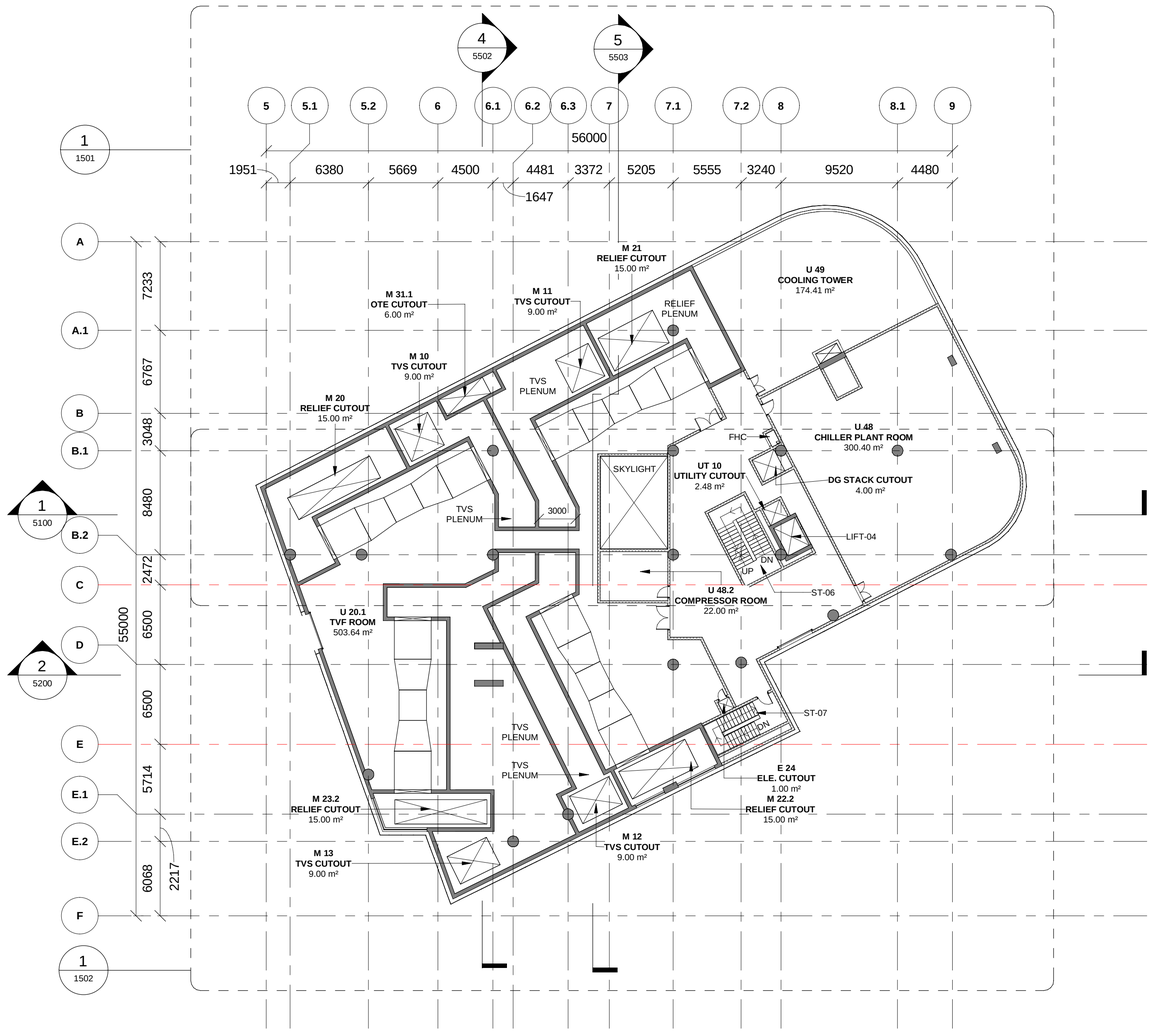
DRG NO: P4D02 - ACM - AR - PRM - BDP - M3 - DRP - 1402 — B03

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

TO SHIVAJI NAGAR STATION



1 ANCILLARY LEVEL PLAN

1500

Scale: 1 : 250

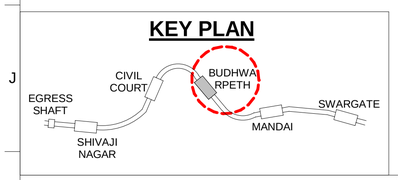
ROOM SCHEDULE- ANCILLARY LEVEL

Number	Name	Area
	DG STACK CUTOUT	4.00 m²
-	UNLOADING AREA	190.98 m²
E 24	ELE. CUTOUT	1.00 m²
M 10	TVS CUTOUT	9.00 m²
M 11	TVS CUTOUT	9.00 m²
M 12	TVS CUTOUT	9.00 m²
M 13	TVS CUTOUT	9.00 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²

ROOM SCHEDULE- ANCILLARY LEVEL

Number	Name	Area
M 22.2	RELIEF CUTOUT	15.00 m²
M 23.2	RELIEF CUTOUT	15.00 m²
M 31.1	OTE CUTOUT	6.00 m²
U 20.1	TVF ROOM	503.64 m²
U 48	CHILLER PLANT ROOM	300.40 m²
U 48.2	COMPRESSOR ROOM	22.00 m²
U 49	COOLING TOWER	174.41 m²
UT 10	UTILITY CUTOUT	2.48 m²

KEY PLAN



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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIP

- ☐ Proof checked by GC
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG

(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**

The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

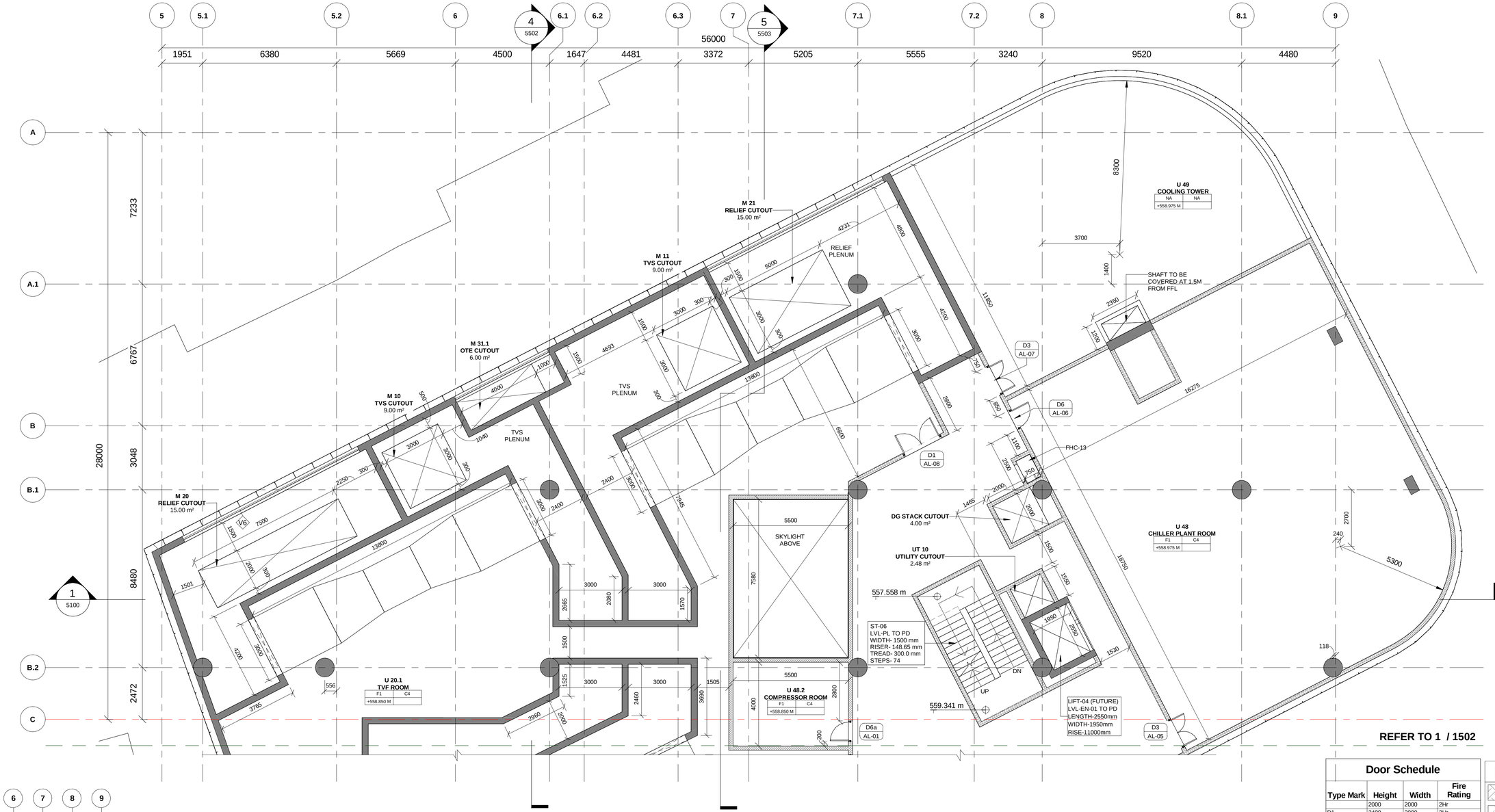
TITLE: **ANCILLARY LEVEL PLAN**

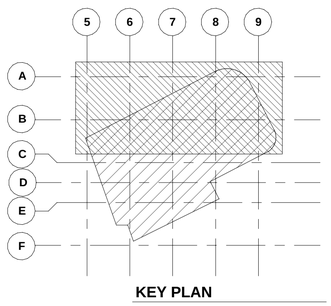
SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - AL - DRP - 1500

ARCHITECTURE

plot scale 50mm





KEY PLAN

1 ANCILLARY LEVEL PLAN (1 OF 2)

1501

Scale: 1 : 100

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Louver Schedule

Mark	Height	Length	Sill Level	Level
V1	3500	4000	1400	ENTRY-1 PLINTH LEVEL
V2	3500	8500	1400	ENTRY-1 PLINTH LEVEL
V3	3050	6000	1850	ENTRY-1 PLINTH LEVEL
V4	3100	9400	2350	ANCILLARY LEVEL
V5	3100	5000	2350	ANCILLARY LEVEL
V6	3100	9400	2350	ANCILLARY LEVEL
V7a	4900	2706	250	ANCILLARY LEVEL
V7b	4900	3506	250	ANCILLARY LEVEL
V8	4900	2600	250	ANCILLARY LEVEL
V9	4900	3381	250	ANCILLARY LEVEL

ROOM SCHEDULE- ANCILLARY LEVEL

Number	Name	Area
-	UNLOADING AREA	190.98 m²
E 24	ELE. CUTOUT	1.00 m²
M 10	TVS CUTOUT	9.00 m²
M 11	TVS CUTOUT	9.00 m²
M 12	TVS CUTOUT	9.00 m²
M 13	TVS CUTOUT	9.00 m²
M 20	RELIEF CUTOUT	15.00 m²
M 21	RELIEF CUTOUT	15.00 m²

ROOM SCHEDULE- ANCILLARY LEVEL

Number	Name	Area
M 22.2	RELIEF CUTOUT	15.00 m²
M 23.2	RELIEF CUTOUT	15.00 m²
M 31.1	OTE CUTOUT	6.00 m²
U 20.1	TVF ROOM	503.64 m²
U 48	CHILLER PLANT ROOM	300.40 m²
U 48.2	COMPRESSOR ROOM	22.00 m²
U 49	COOLING TOWER	174.41 m²
UT 10	UTILITY CUTOUT	2.48 m²

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AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

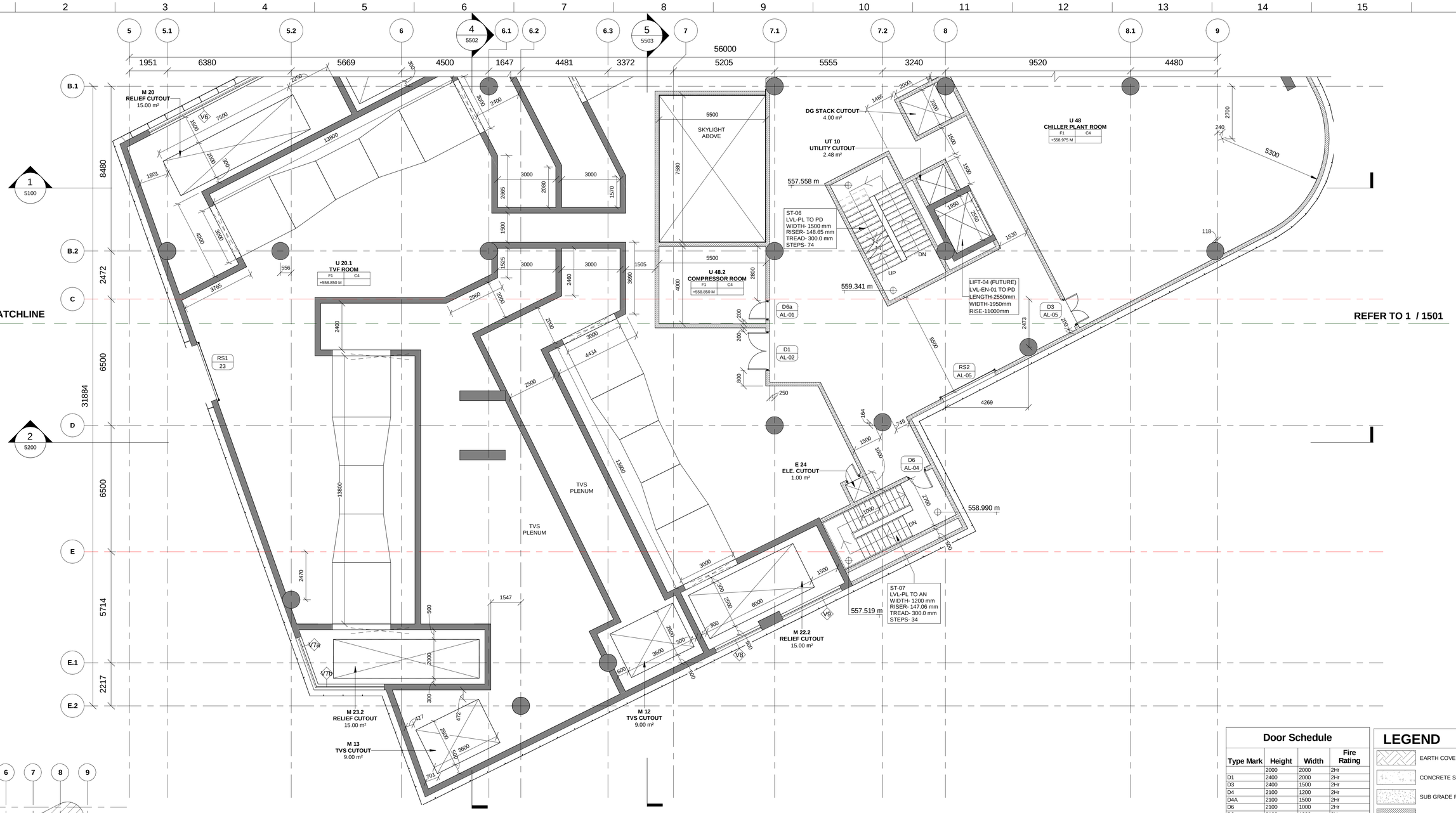
TITLE: **ANCILLARY LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - AL - DRP - 1501

ARCHITECTURE

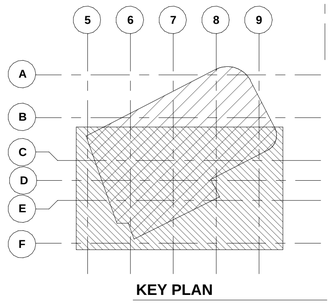
plot scale 50mm



1 ANCILLARY LEVEL PLAN (2 OF 2)

1502

Scale: 1 : 100



KEY PLAN

Door Schedule

Type Mark	Height	Width	Fire Rating
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D3	2400	1500	2Hr
D4	2100	1200	2Hr
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D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
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RS4	3000	2500	1.5hr(90 min)

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ROOM SCHEDULE- ANCILLARY LEVEL

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AECOM-SYSTRA-CEG

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11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **ANCILLARY LEVEL PLAN (2 OF 2)**

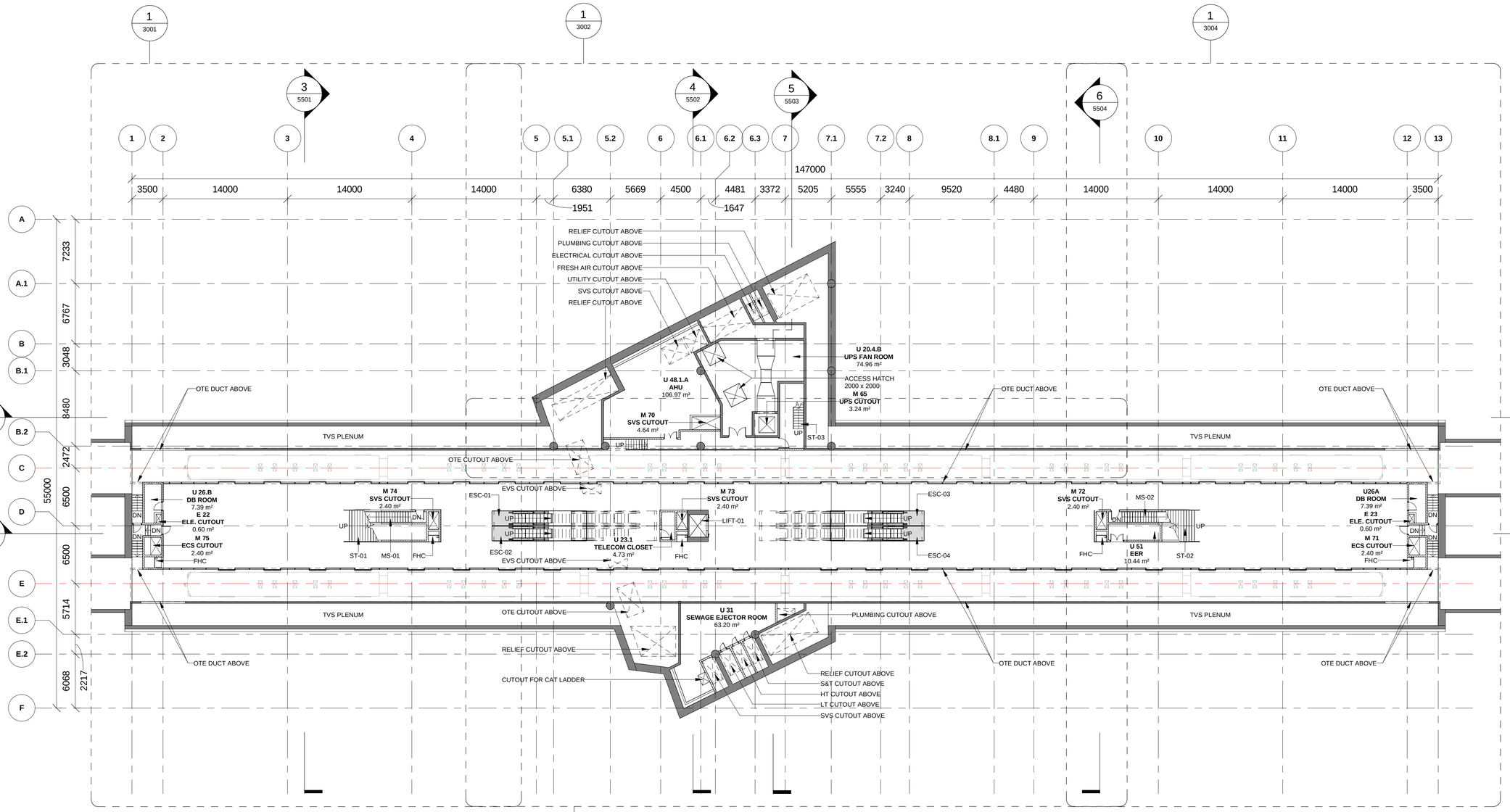
SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
DRG NO: P4D02 - ACM - AR - PRM - BDP - AL - DRP - 1502			B03

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

TO SHIVAJI NAGAR STATION



1 PLATFORM LEVEL PLAN (3000) — Scale: 1 : 250

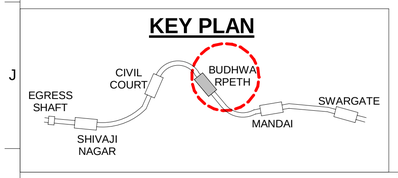
ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
	ACCESS HATCH	4.00 m²
	ACCESS HATCH	4.00 m²
E 22	ELE. CUTOUT	0.60 m²
E 23	ELE. CUTOUT	0.60 m²
M 65	UPS CUTOUT	3.24 m²
M 70	SVS CUTOUT	4.64 m²
M 71	ECS CUTOUT	2.40 m²
M 72	SVS CUTOUT	2.40 m²
M 73	SVS CUTOUT	2.40 m²
M 74	SVS CUTOUT	2.40 m²

ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
M 75	ECS CUTOUT	2.40 m²
MS-01	MAINTAINANCE STAIRCASE	6.78 m²
MS-02	MAINTAINANCE STAIRCASE	7.98 m²
MS-03	MAINTAINANCE STAIRCASE	19.71 m²
U26A	DB ROOM	7.39 m²
U 20.4.B	UPS FAN ROOM	74.96 m²
U 23.1	TELECOM CLOSET	4.73 m²
U 26.B	DB ROOM	7.39 m²
U 31	SEWAGE EJECTOR ROOM	63.20 m²
U 48.1.A	AHU	106.97 m²
U 51	EER	10.44 m²

KEY PLAN



NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

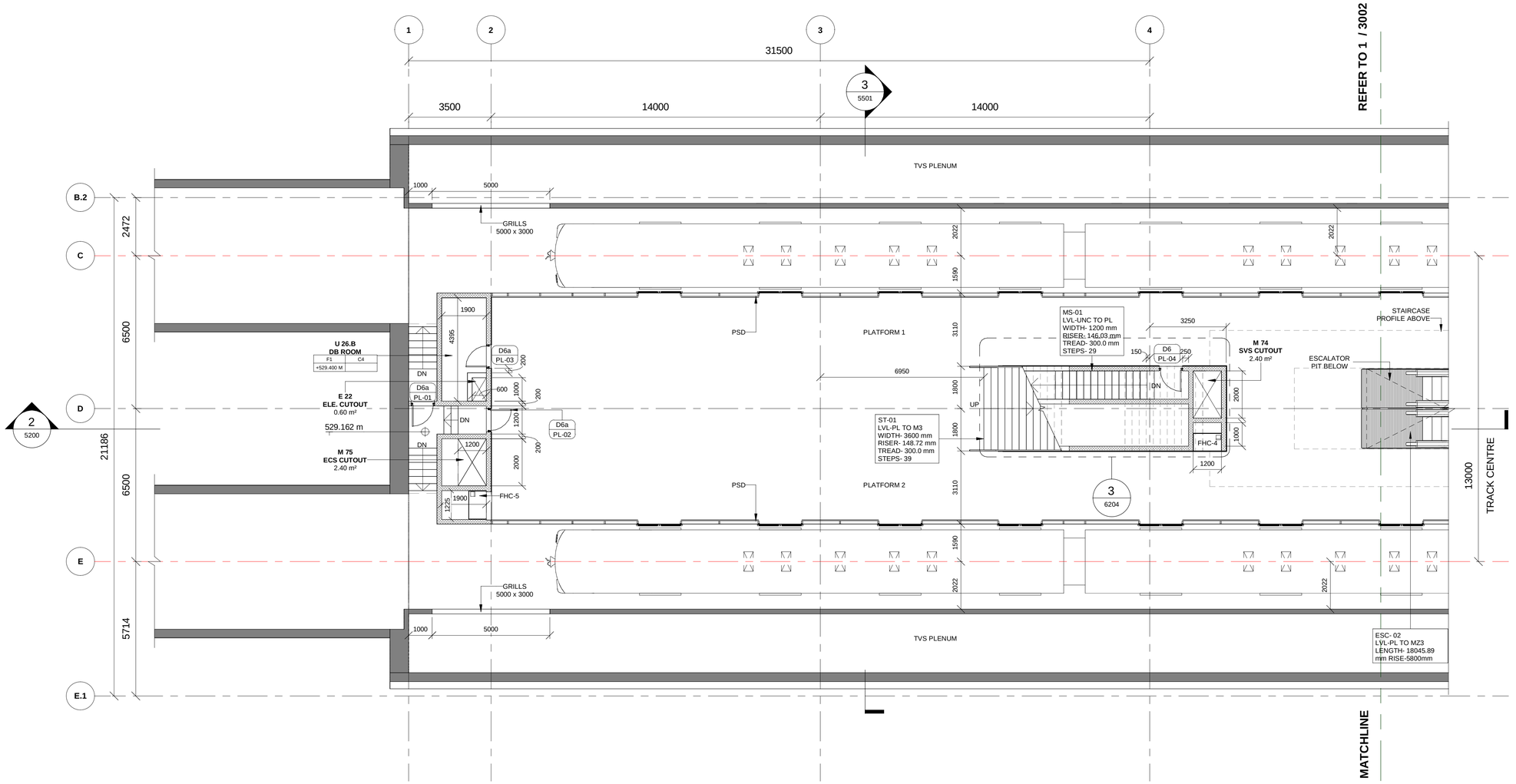
TITLE: **PLATFORM LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

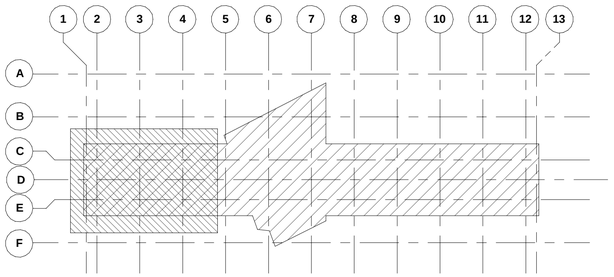
DRG NO: P4D02 - ACM - AR - PRM - BDP - PT - DRP - 3000

ARCHITECTURE

plot scale 50mm



1 **PLATFORM LEVEL PLAN (1 OF 4)**
3001
Scale: 1 : 100



KEY PLAN

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
	ACCESS HATCH	4.00 m²
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E 22	ELE. CUTOUT	0.60 m²
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ROOM SCHEDULE- PLATFORM LEVEL

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AECOM-SYSTRA-CEG

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

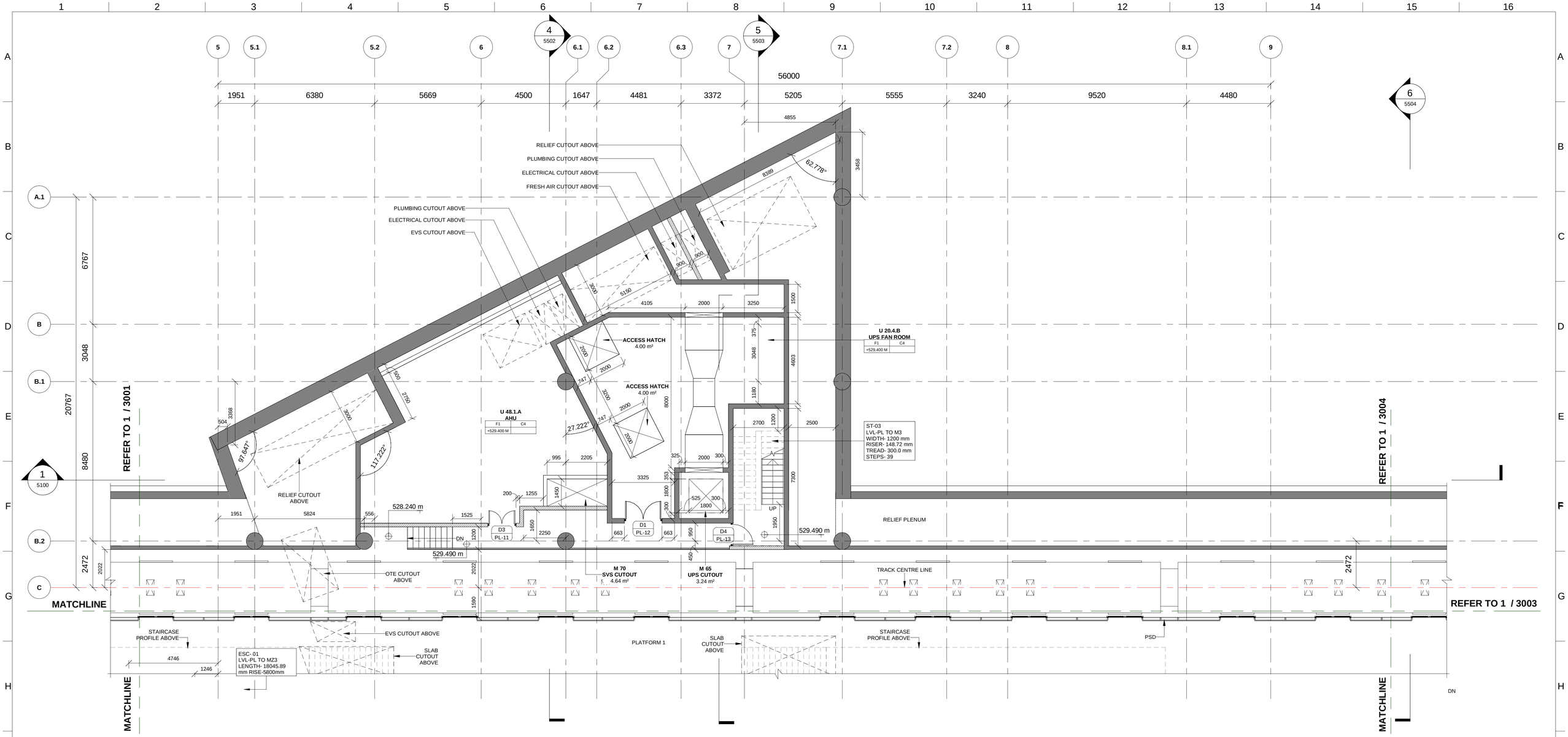
TITLE: **PLATFORM LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - PT - DRP - 3001

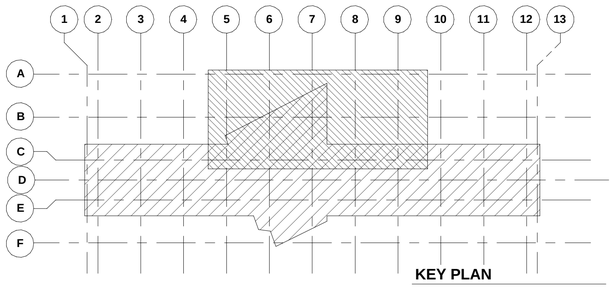
ARCHITECTURE

plot scale 50mm



1 PLATFORM LEVEL PLAN (2 OF 4)

3002 Scale: 1 : 100



ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
	ACCESS HATCH	4.00 m²
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E 22	ELE. CUTOUT	0.60 m²
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ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
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LEGEND

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- CONCRETE SECTION
- SUB GRADE FILLED
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D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
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AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **PLATFORM LEVEL PLAN (2 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - PT - DRP - 3002

ARCHITECTURE

plot scale 50mm

REFER TO 1 / 3001

REFER TO 1 / 3004

REFER TO 1 / 3002

MATCHLINE

MATCHLINE

MATCHLINE

RELIEF CUTOUT ABOVE

528.240 m

529.490 m

529.490 m

RELIEF PLENUM

OTE CUTOUT ABOVE

M 70
SVS CUTOUT
4.64 m²

M 65
UPS CUTOUT
3.24 m²

TRACK CENTRE LINE

STAIRCASE PROFILE ABOVE

EVS CUTOUT ABOVE

ESC- 01
LVL-PL TO MZ3
LENGTH- 18045.89
mm RISE-5800mm

ESCALATOR PIT BELOW

CUTOUT ABOVE

M 73
SVS CUTOUT
2.40 m²

LIFT-01
LVL-M1 TO PF
LENGTH-2550mm
WIDTH-1950mm
RISE-16900mm

PLATFORM 1

PLATFORM 2

CUTOUT ABOVE

STAIRCASE PROFILE ABOVE

ESCALATOR PIT BELOW

PSD

ESC- 03
LVL-PL TO MZ3
LENGTH- 18045.89
mm RISE-5800mm

ESC- 04
LVL-PL TO MZ3
LENGTH- 18045.89
mm RISE-5800mm

STAIRCASE PROFILE ABOVE

M 72
SVS CUTOUT
2.40 m²

ESC- 02
LVL-PL TO MZ3
LENGTH- 18045.89
mm RISE-5800mm

EVS CUTOUT ABOVE

U 23.1
TELECOM CLOSET
F5 | C4
+549.400

PSD

OTE CUTOUT ABOVE

PLUMBING CUTOUT ABOVE

TRACK CENTRE LINE

U 31
SEWAGE EJECTOR ROOM
F1 | C4
+529.400 M

RELIEF PLENUM

RELIEF CUTOUT ABOVE

RELIEF CUTOUT ABOVE

S&T CUTOUT ABOVE

HT CUTOUT ABOVE

LT CUTOUT ABOVE

SVS CUTOUT ABOVE

CUTOUT FOR CAT LADDER

TRACK CENTRE

U 51
EER
F1 | C4
+529.400 M

56000

23404

13000

1 PLATFORM LEVEL PLAN (3 OF 4)

3003 | Scale: 1 : 100

KEY PLAN

ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
	ACCESS HATCH	4.00 m²
	ACCESS HATCH	4.00 m²
E 22	ELE. CUTOUT	0.60 m²
E 23	ELE. CUTOUT	0.60 m²
M 65	UPS CUTOUT	3.24 m²
M 70	SVS CUTOUT	4.64 m²
M 71	ECS CUTOUT	2.40 m²
M 72	SVS CUTOUT	2.40 m²
M 73	SVS CUTOUT	2.40 m²
M 74	SVS CUTOUT	2.40 m²

ROOM SCHEDULE- PLATFORM LEVEL

Number	Name	Area
M 75	ECS CUTOUT	2.40 m²
MS-01	MAINTAINANCE STAIRCASE	6.78 m²
MS-02	MAINTAINANCE STAIRCASE	7.98 m²
MS-03	MAINTAINANCE STAIRCASE	19.71 m²
U26A	DB ROOM	7.39 m²
U 20.4.B	UPS FAN ROOM	74.96 m²
U 23.1	TELECOM CLOSET	4.73 m²
U 26.B	DB ROOM	7.39 m²
U 31	SEWAGE EJECTOR ROOM	63.20 m²
U 48.1.A	AHU	106.97 m²
U 51	EER	10.44 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India PVt. Ltd.
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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:		SIGN:
DATE:	DATE:	DATE:		DATE:
NAME:	NAME:	NAME:		NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

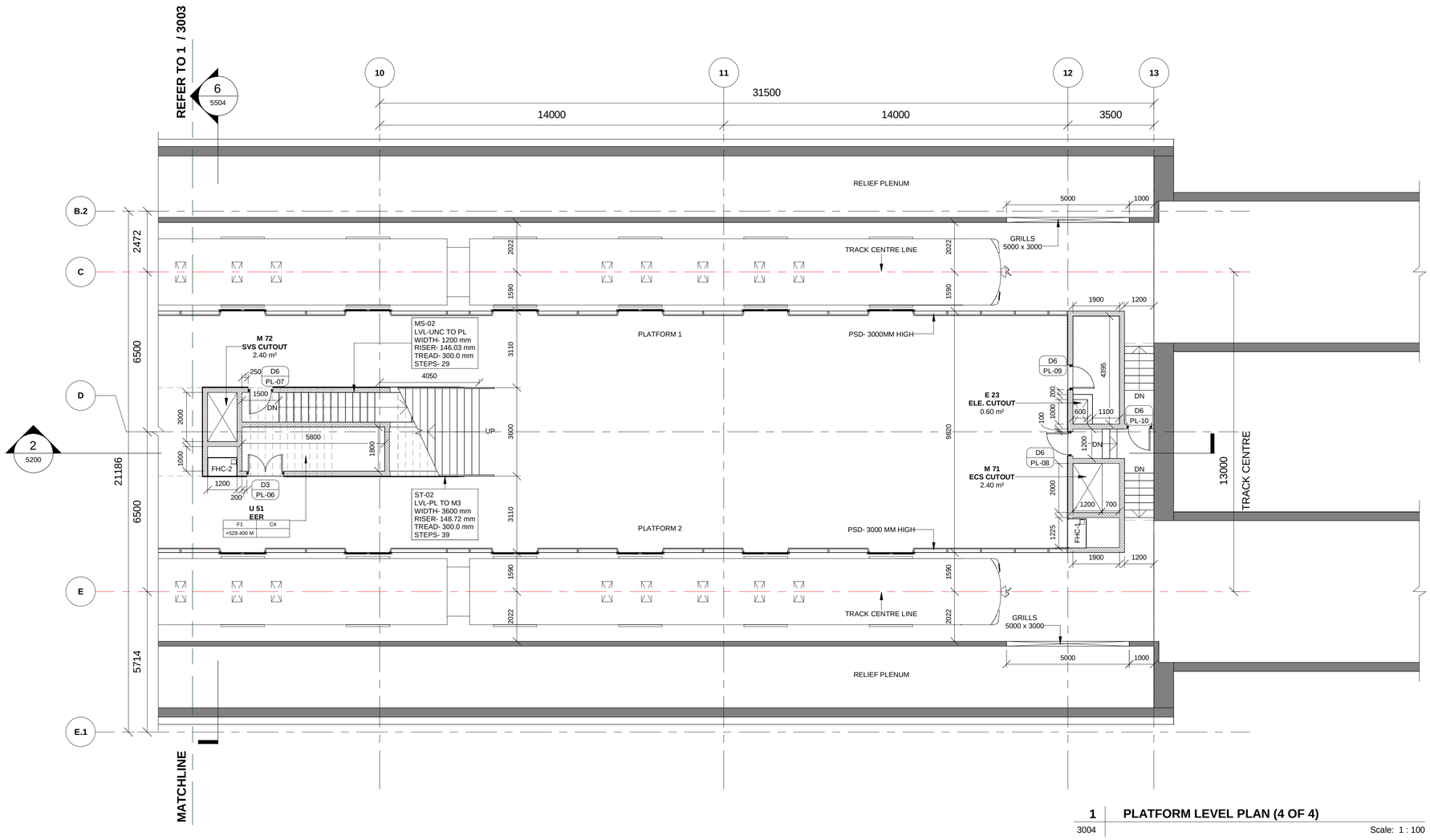
TITLE: **PLATFORM LEVEL PLAN (3 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - PT - DRP - 3003

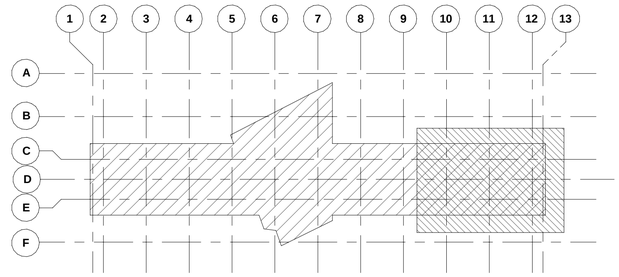
ARCHITECTURE

plot scale 50mm



1 PLATFORM LEVEL PLAN (4 OF 4)
3004
Scale: 1 : 100

MATCHLINE



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ROOM SCHEDULE- PLATFORM LEVEL

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- TOE WALL, 300MM HIGH
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D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
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RS2	3000	3000	1.5hr(90 min)
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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **PLATFORM LEVEL PLAN (4 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

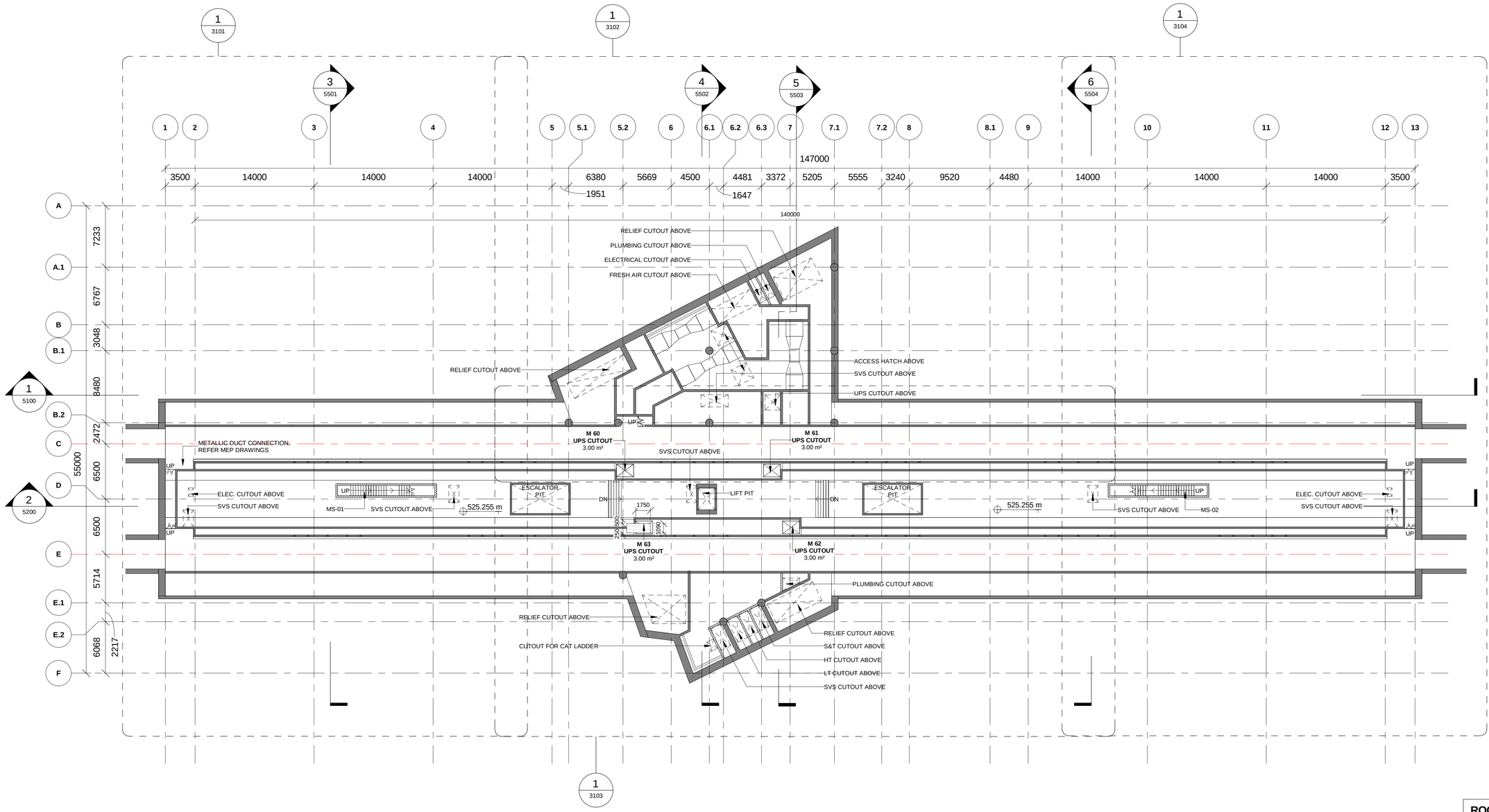
DRG NO: P4D02 - ACM - AR - PRM - BDP - PT - DRP - 3004

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

TO SHIVAJI NAGAR STATION



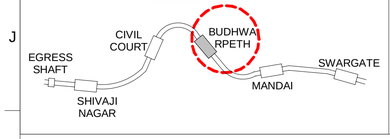
1 RAIL LEVEL PLAN

3100 — Scale: 1 : 250

ROOM SCHEDULE- TRACK...

Number	Name	Area
M 60	UPS CUTOUT	3.00 m²
M 61	UPS CUTOUT	3.00 m²
M 62	UPS CUTOUT	3.00 m²
M 63	UPS CUTOUT	3.00 m²

KEY PLAN



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DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

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DATE:		DATE:	
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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

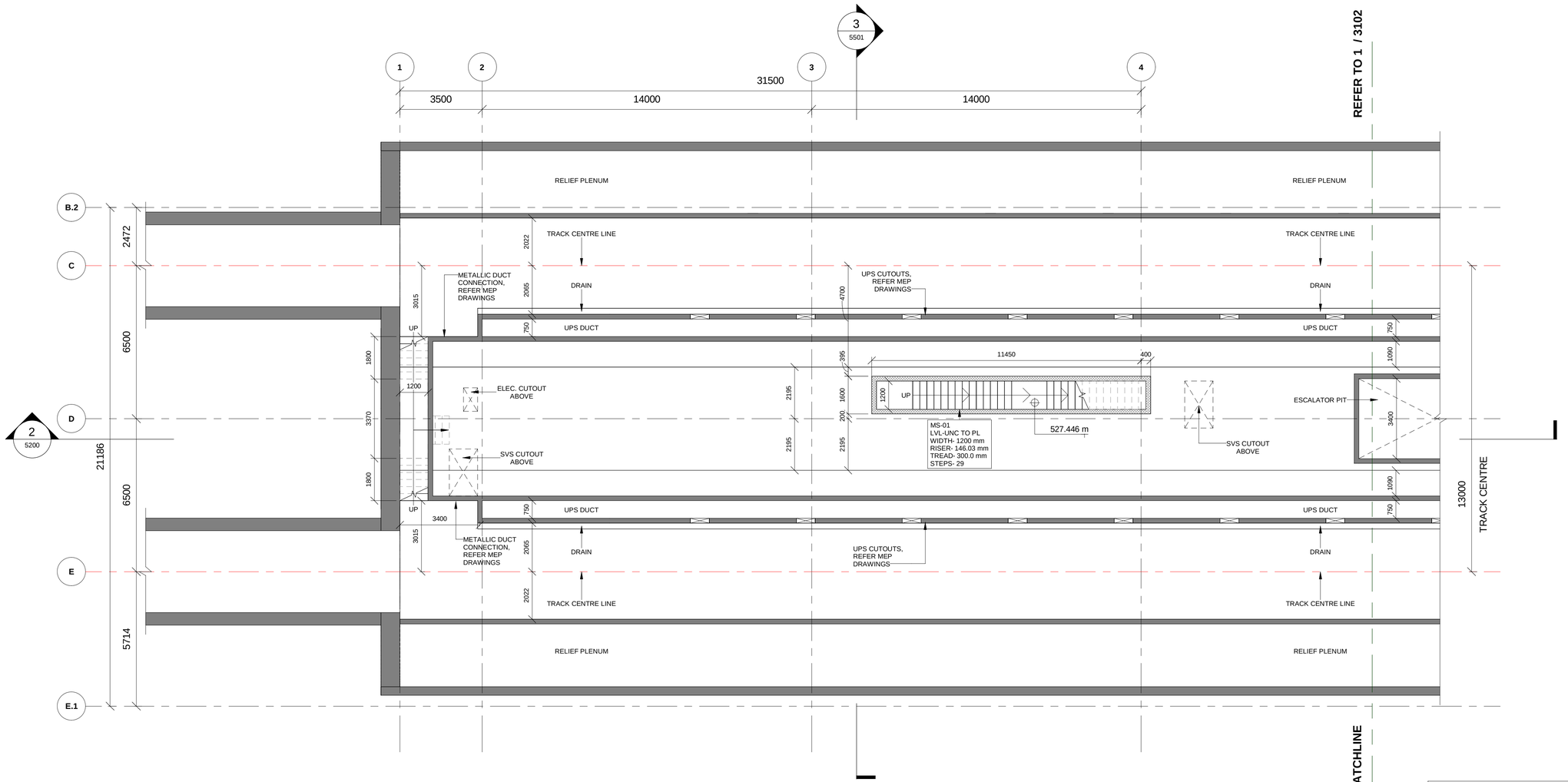
TITLE: **RAIL LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - RA - DRP - 3100

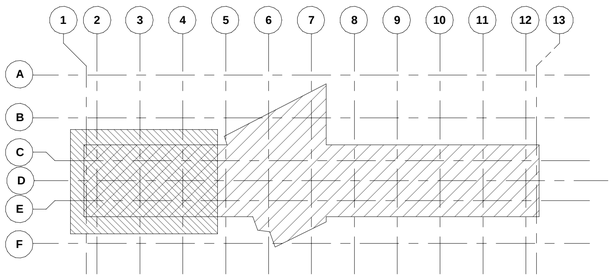
ARCHITECTURE

plot scale 50mm



1 3101 **RAIL LEVEL PLAN (1 OF 4)**

Scale: 1 : 100



KEY PLAN

Door Schedule

Type Mark	Height	Width	Fire Rating
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LEGEND

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- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

ROOM SCHEDULE- TRACK...

Number	Name	Area
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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

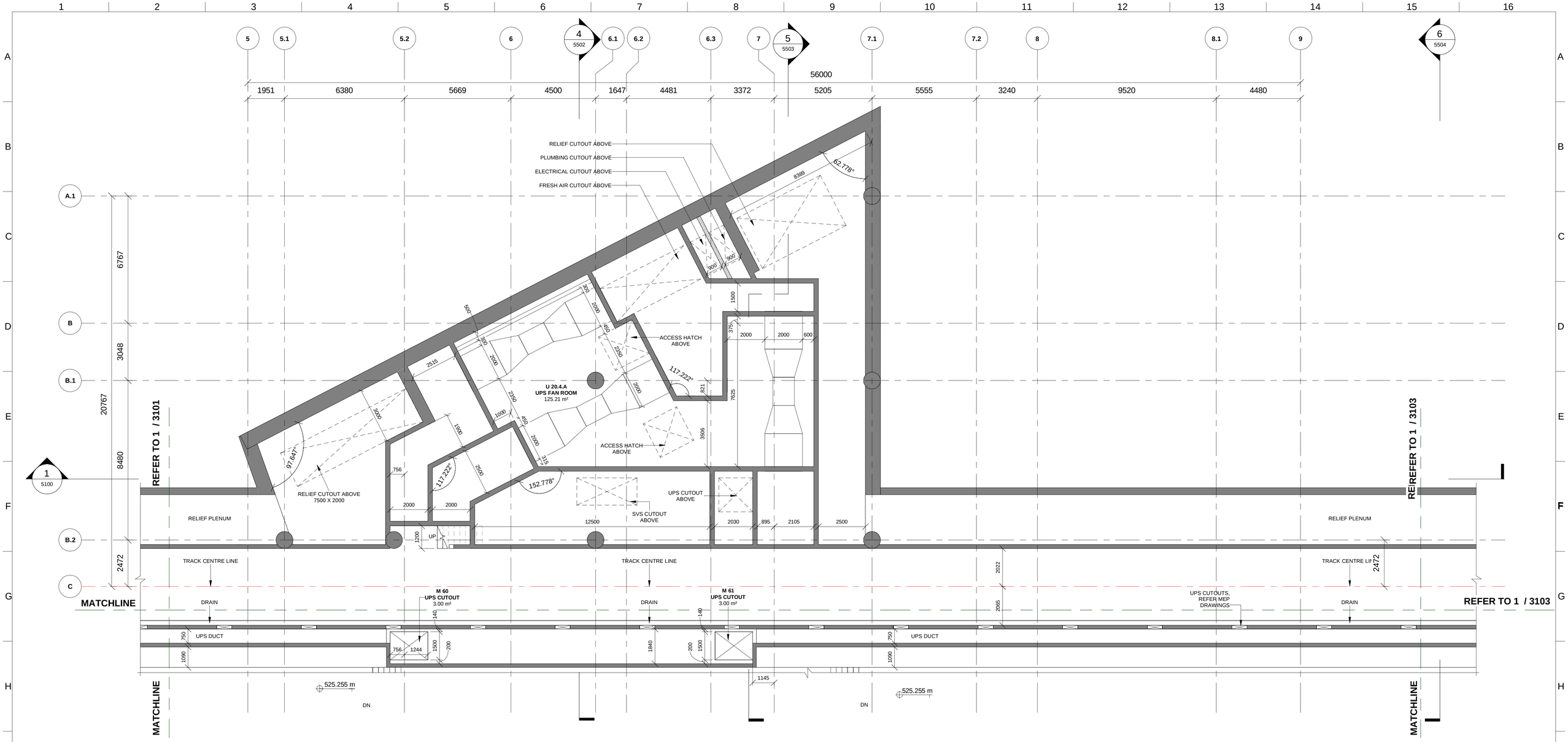
TITLE: **RAIL LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - RA - DRP - 3101

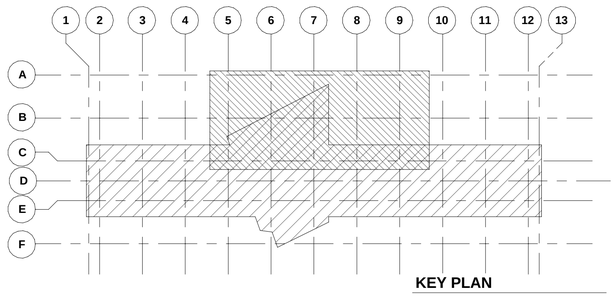
ARCHITECTURE

plot scale 50mm



1 5100

1 | **RAIL LEVEL PLAN (2 OF 4)**
3102 | Scale: 1 : 100



KEY PLAN

ROOM SCHEDULE- TRACK...

Number	Name	Area
M 60	UPS CUTOUT	3.00 m²
M 61	UPS CUTOUT	3.00 m²
M 62	UPS CUTOUT	3.00 m²
M 63	UPS CUTOUT	3.00 m²

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
RS4	3000	2500	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

AECOM-SYSTRA-CEG

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

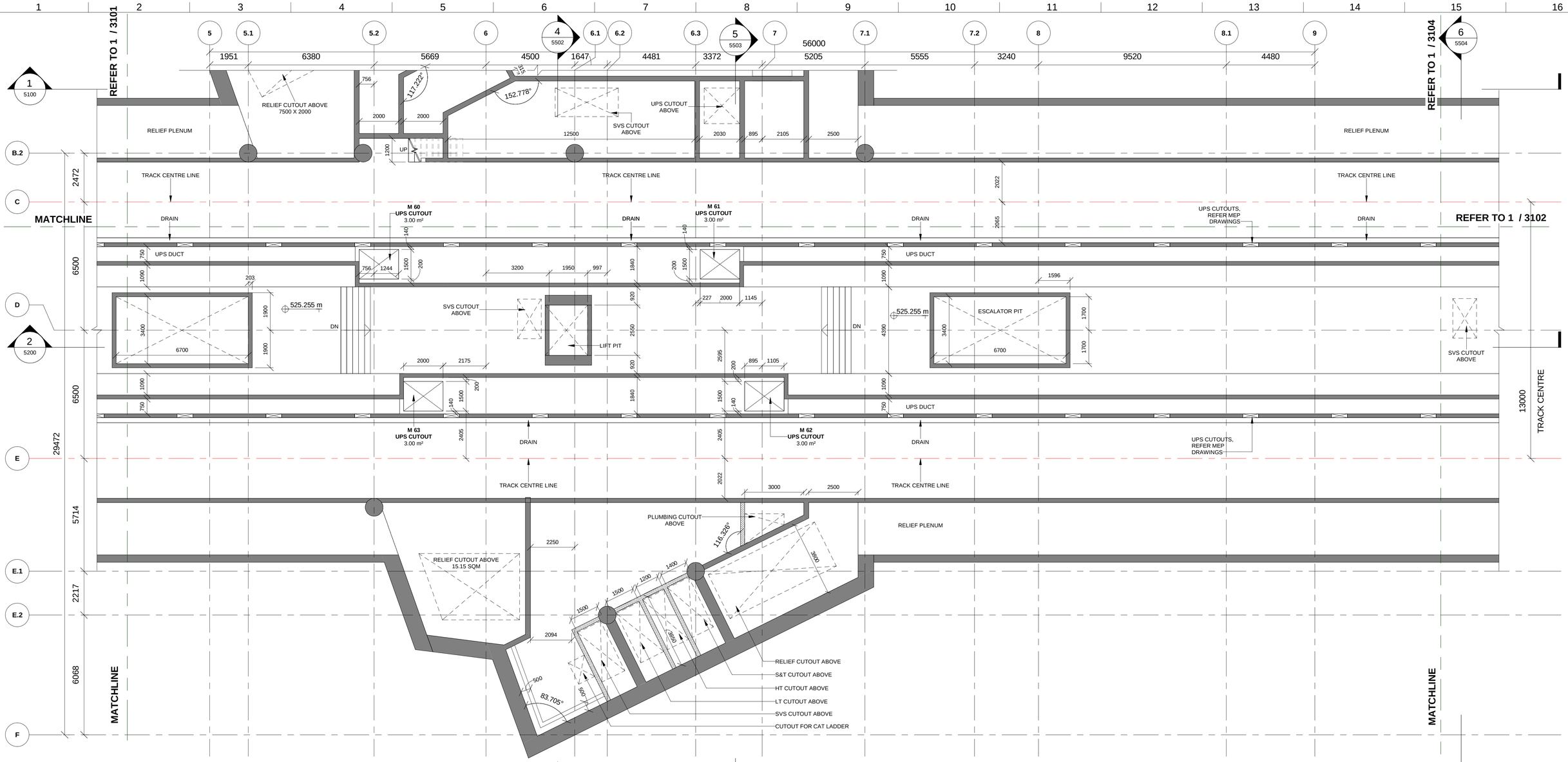
TITLE: **RAIL LEVEL PLAN (2 OF 4)**

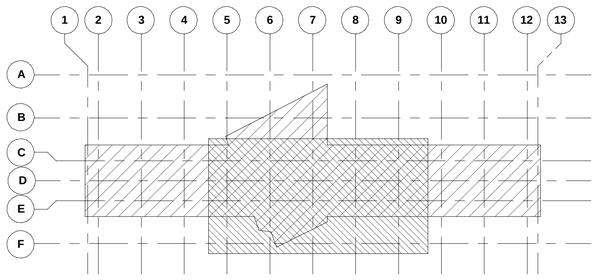
SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - RA - DRP - 3102

ARCHITECTURE

plot scale 50mm





KEY PLAN

1 | **RAIL LEVEL PLAN (3 OF 4)**
3103 | Scale: 1 : 100

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
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D9	2000	750	-
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ROOM SCHEDULE- TRACK...

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M 61	UPS CUTOUT	3.00 m²
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M 63	UPS CUTOUT	3.00 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:	SIGN:	
DATE:	DATE:	DATE:	DATE:	
NAME:	NAME:	NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

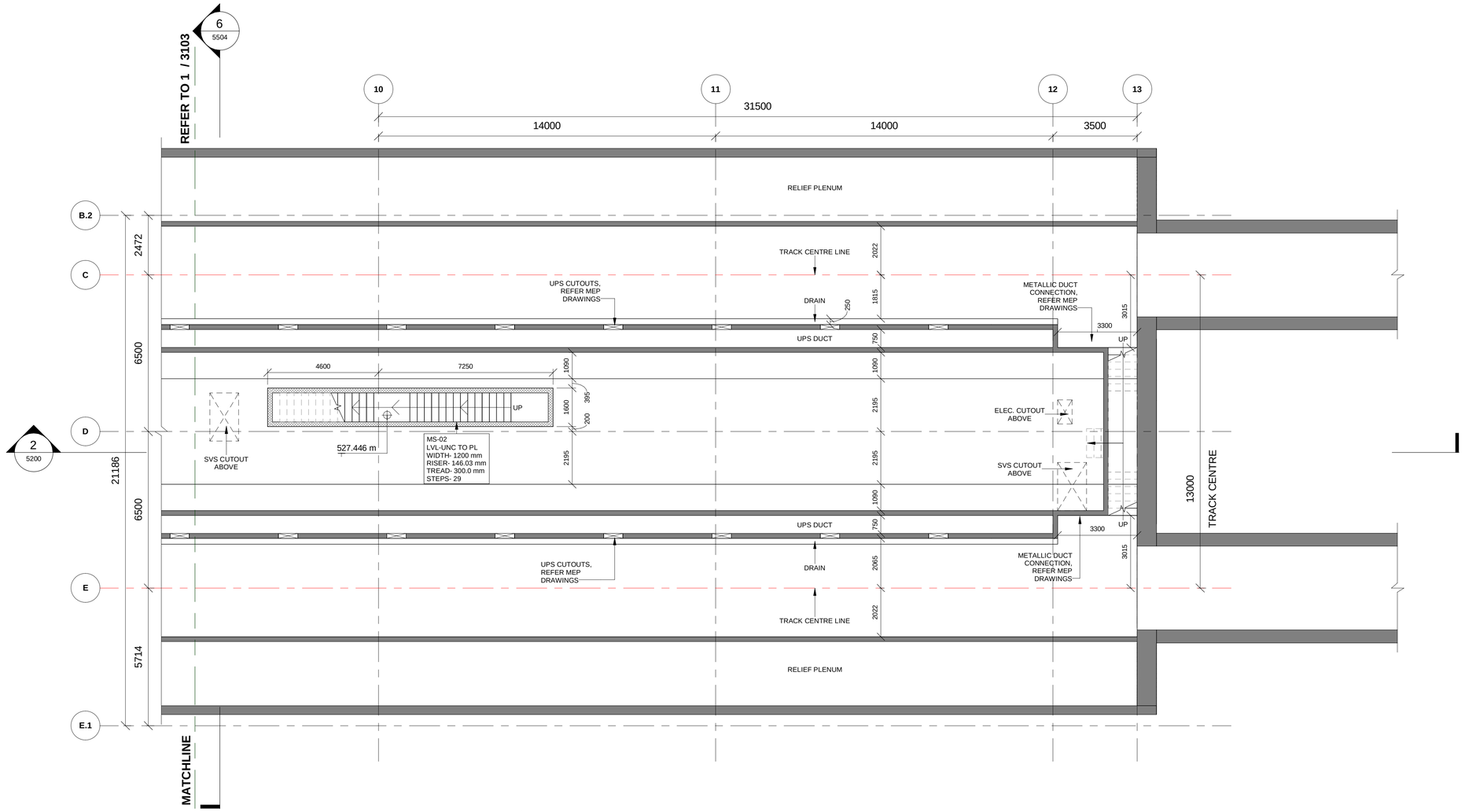
TITLE: **RAIL LEVEL PLAN (3 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

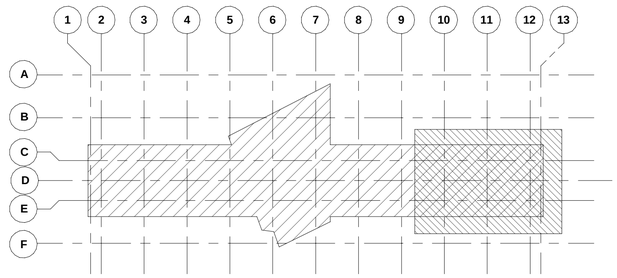
DRG NO: P4D02 - ACM - AR - PRM - BDP - RA - DRP - 3103

ARCHITECTURE

plot scale 50mm



1 | **RAIL LEVEL PLAN (4 OF 4)**
3104 | Scale: 1 : 100



KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

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D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
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ROOM SCHEDULE- TRACK...

Number	Name	Area
M 60	UPS CUTOUT	3.00 m²
M 61	UPS CUTOUT	3.00 m²
M 62	UPS CUTOUT	3.00 m²
M 63	UPS CUTOUT	3.00 m²

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SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIP

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- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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HOD

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AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **RAIL LEVEL PLAN (4 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

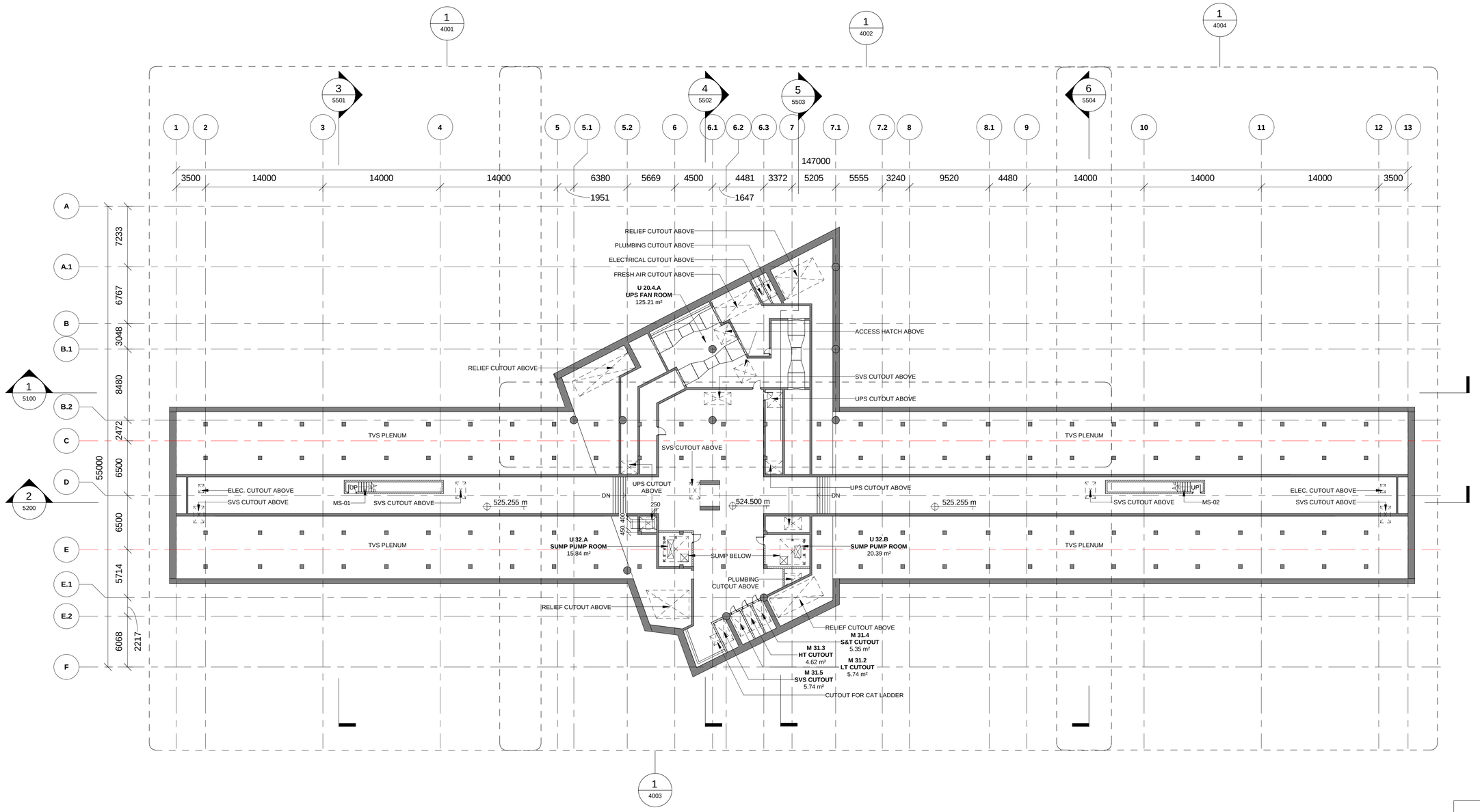
DRG NO: P4D02 - ACM - AR - PRM - BDP - RA - DRP - 3104

ARCHITECTURE

plot scale 50mm

TO SWARGATE STATION

TO SHIVAJI NAGAR STATION



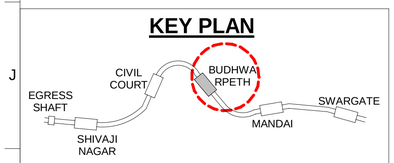
1 UNDERCROFT LEVEL PLAN

4000 Scale: 1 : 250

ROOM SCHEDULE-...

Number	Name	Area
M 31.5	SVS CUTOUT	5.74 m²
U 20.4.A	UPS FAN ROOM	125.21 m²
U 32.A	SUMP PUMP ROOM	15.84 m²
U 32.B	SUMP PUMP ROOM	20.39 m²

KEY PLAN



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DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
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DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

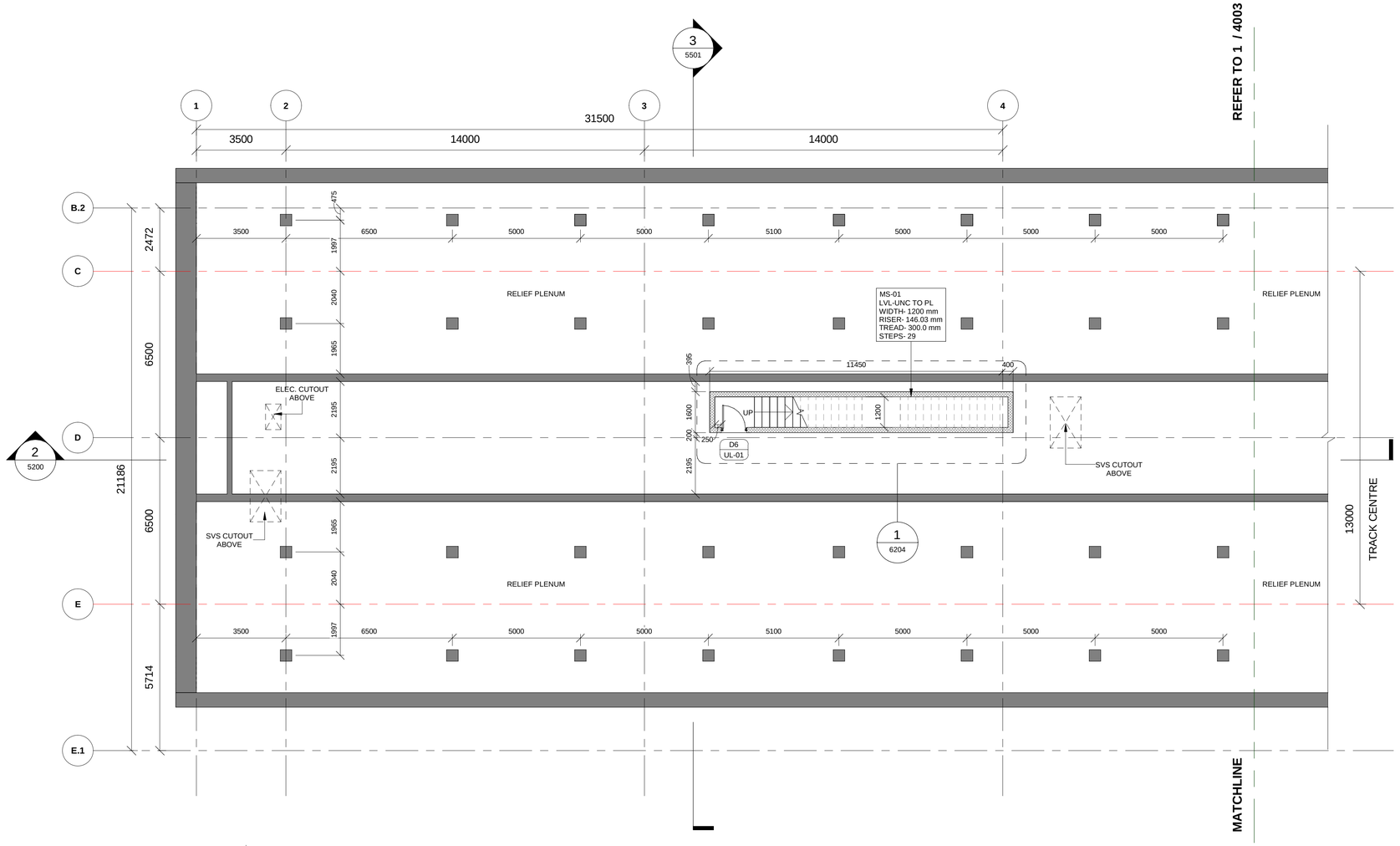
TITLE: **UNDERCROFT LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - UL - DRP - 4000

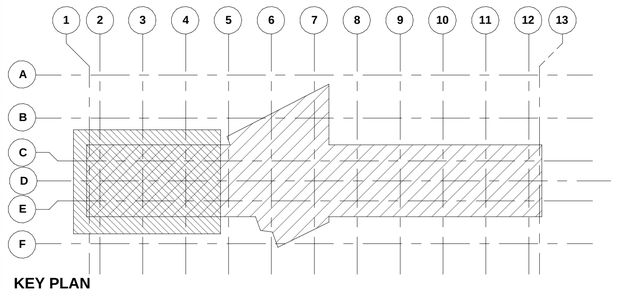
ARCHITECTURE

plot scale 50mm



1 | UNDERCROFT LEVEL PLAN (1 OF 4)

4001 | Scale: 1 : 100



KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR.)
- TOE WALL, 300MM HIGH
- DOUBLE SLAB

Door Schedule

Type Mark	Height	Width	Fire Rating
	2000	2000	2Hr
D1	2400	2000	2Hr
D3	2400	1500	2Hr
D4	2100	1200	2Hr
D4A	2100	1500	2Hr
D6	2100	1000	2Hr
D6a	2100	1000	2Hr
D7	2100	1000	-
D8	2000	750	2Hr
D9	2000	750	-
D10	2100	1000	-
D11	2100	1000	-
RS1	3000	3500	1.5hr(90 min)
RS2	3000	3000	1.5hr(90 min)
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ROOM SCHEDULE-...

Number	Name	Area
M 31.5	SVS CUTOUT	5.74 m²
U 20.4.A	UPS FAN ROOM	125.21 m²
U 32.A	SUMP PUMP ROOM	15.84 m²
U 32.B	SUMP PUMP ROOM	20.39 m²

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

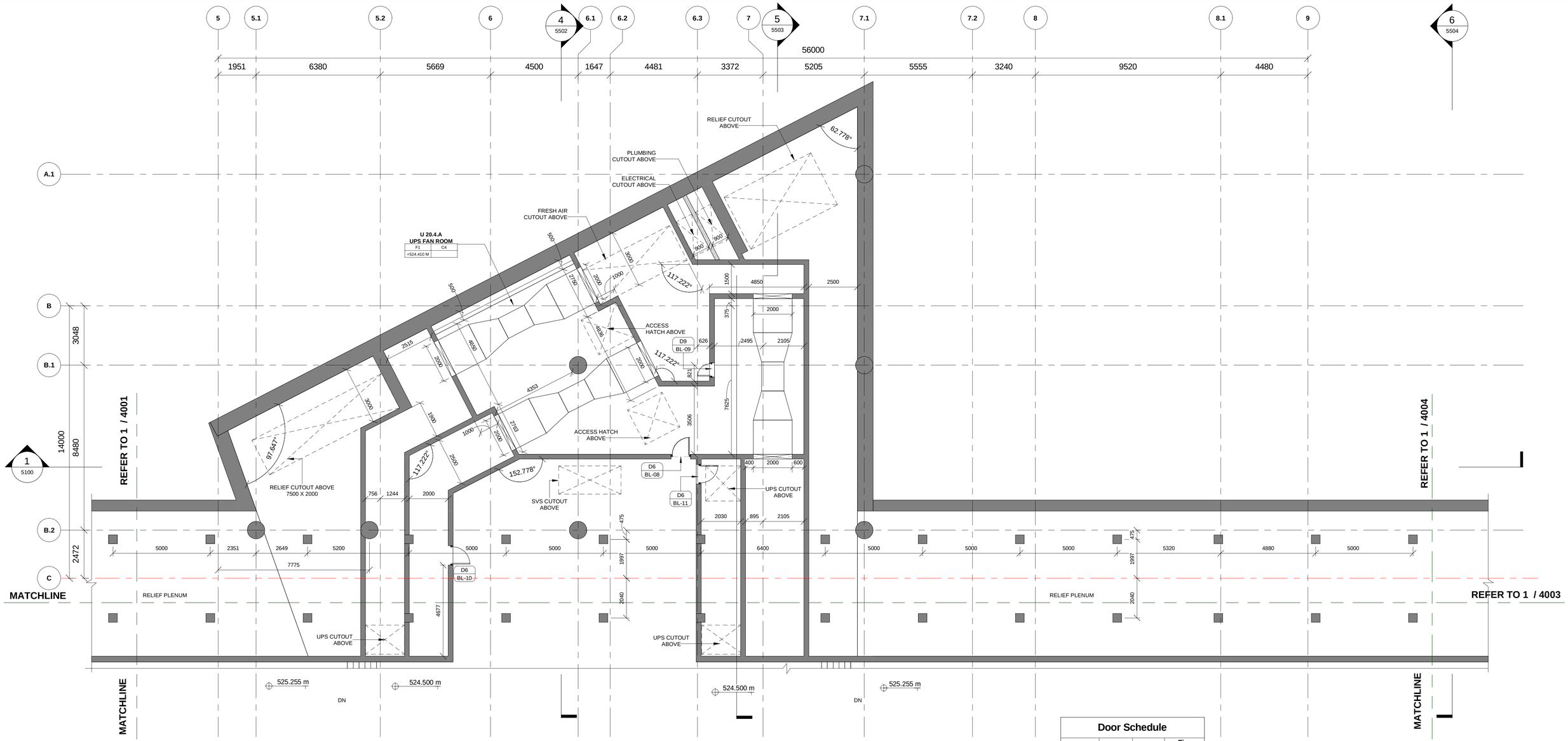
TITLE: **UNDERCROFT LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

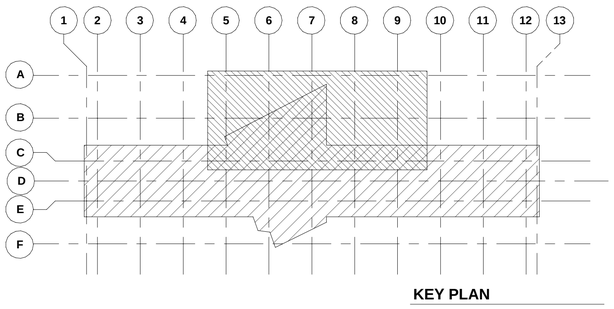
DRG NO: P4D02 - ACM - AR - PRM - BDP - UL - DRP - 4001

ARCHITECTURE

plot scale 50mm



1 **UNDERCROFT LEVEL PLAN (2 OF 4)**
4002
Scale: 1 : 100



KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
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- STR. WALL (AS/STR.)
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Door Schedule

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AECOM-SYSTRA-CEG

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIP

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- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **UNDERCROFT LEVEL PLAN (2 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - UL - DRP - 4002

ARCHITECTURE

plot scale 50mm

REFER TO 1 / 4001

REFER TO 1 / 4004

RELIEF CUTOUT ABOVE 7500 X 2000

SVS CUTOUT ABOVE

UPS CUTOUT ABOVE

RELIEF PLENUM

MATCHLINE

525.255 m

524.500 m

DN

U 32.A
SUMP PUMP ROOM
NA | C4
+524.410 M

SUMP BELOW 3000 X 3000 X 4000

U 32.B
SUMP PUMP ROOM
NA | C4
+524.410 M

PLUMBING CUTOUT ABOVE

RELIEF CUTOUT ABOVE

TRACK CENTRE

RELIEF CUTOUT ABOVE
S&T CUTOUT ABOVE
HT CUTOUT ABOVE
LT CUTOUT ABOVE
SVS CUTOUT ABOVE
CUTOUT FOR CAT LADDER

1 UNDERCROFT LEVEL PLAN (3 OF 4)

4003 Scale: 1 : 100

KEY PLAN

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:		SIGN:	
DATE:	DATE:	DATE:		DATE:	
NAME:	NAME:	NAME:		NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY	

NIA

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

- Proof checked by GC
- Being Given No Objection
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COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

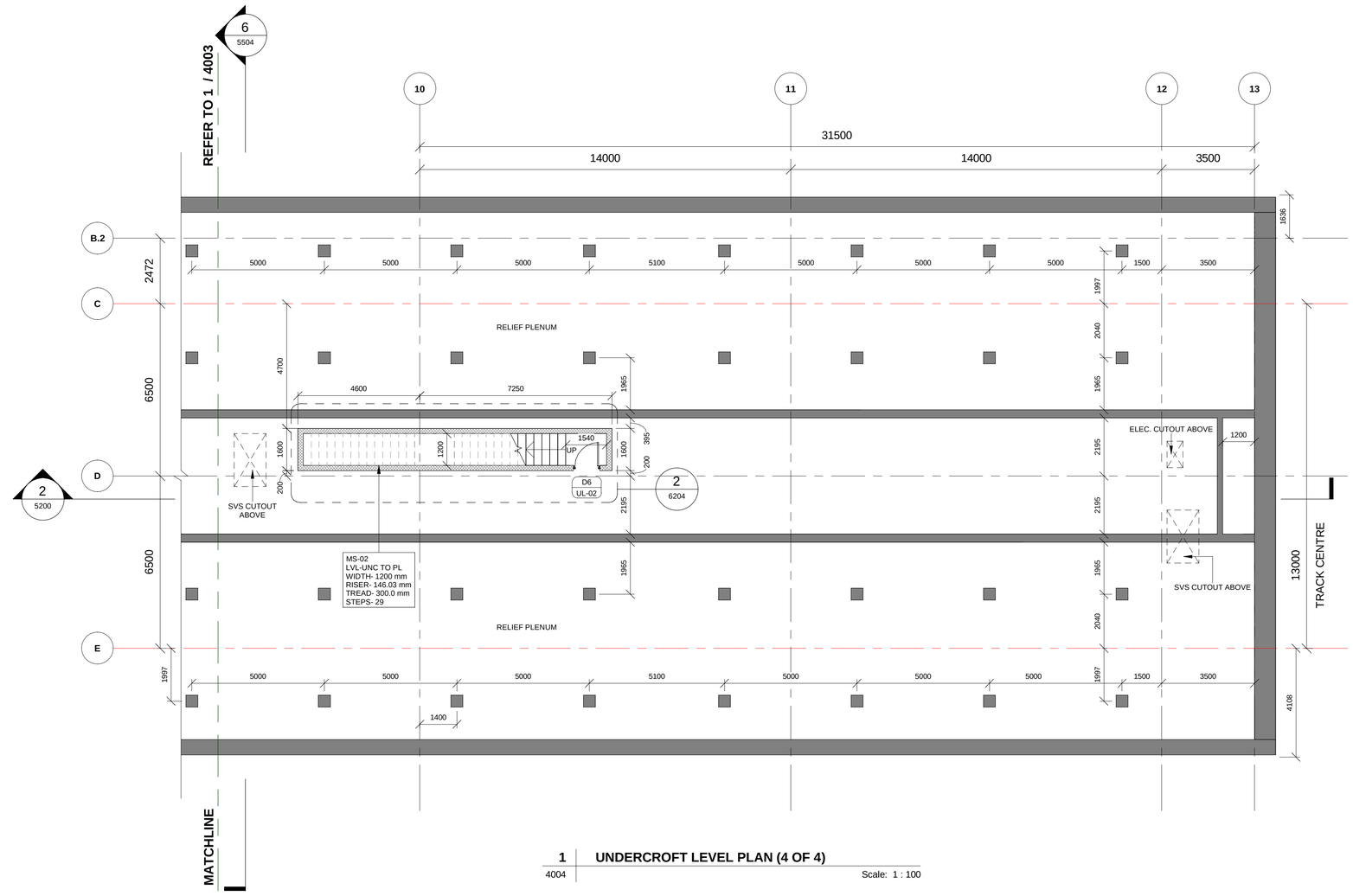
TITLE: **UNDERCROFT LEVEL PLAN (3 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - UL - DRP - 4003

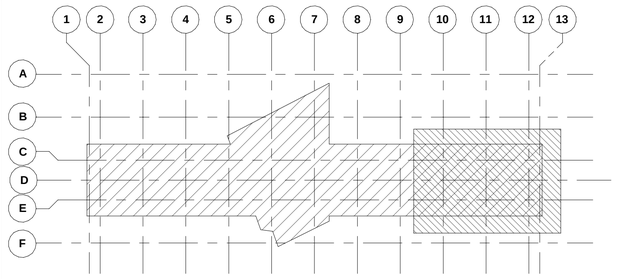
ARCHITECTURE

plot scale 50mm



1 | **UNDERCROFT LEVEL PLAN (4 OF 4)**

4004 | Scale: 1 : 100



KEY PLAN

LEGEND

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N/A

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The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

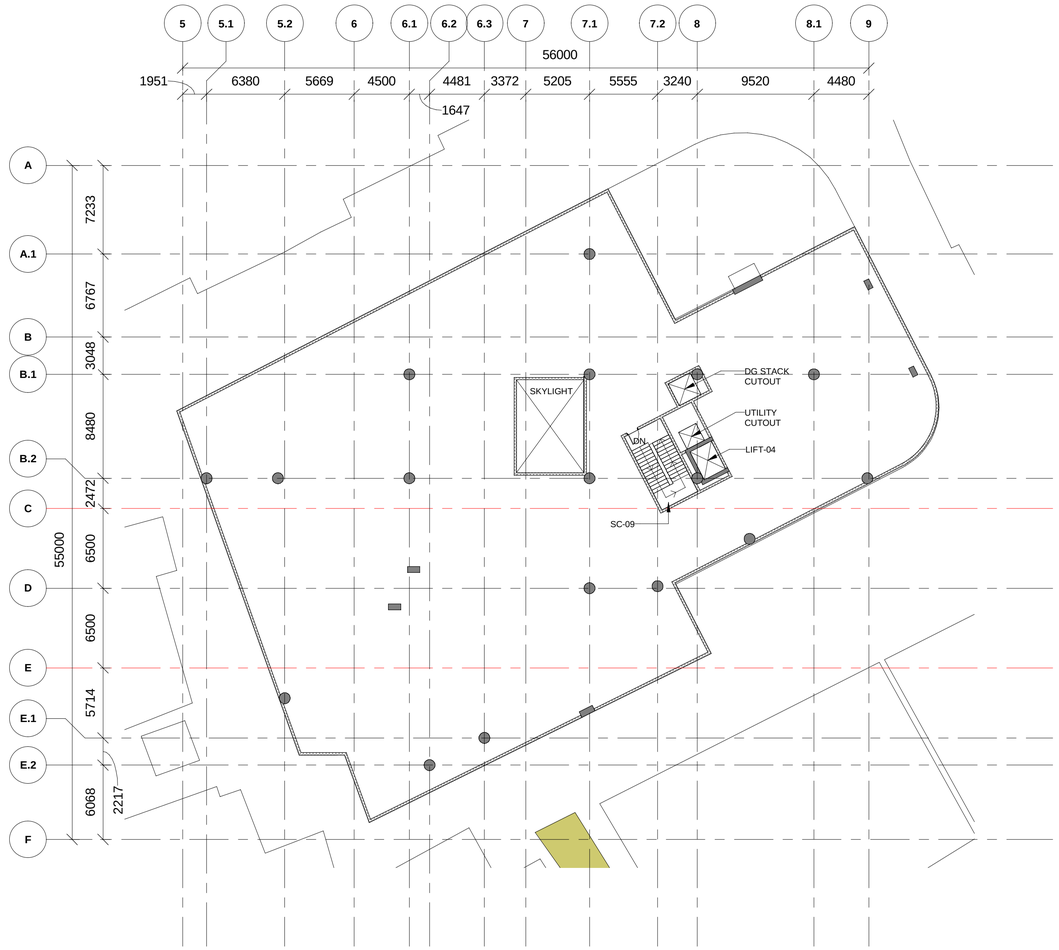
TITLE: **UNDERCROFT LEVEL PLAN (4 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - UL - DRP - 4004

ARCHITECTURE

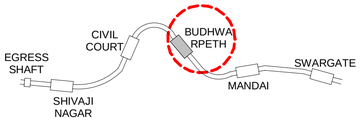
plot scale 50mm



1 TYPICAL PD LEVEL PLAN

5000 Scale: 1 : 250

KEY PLAN



NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIP

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

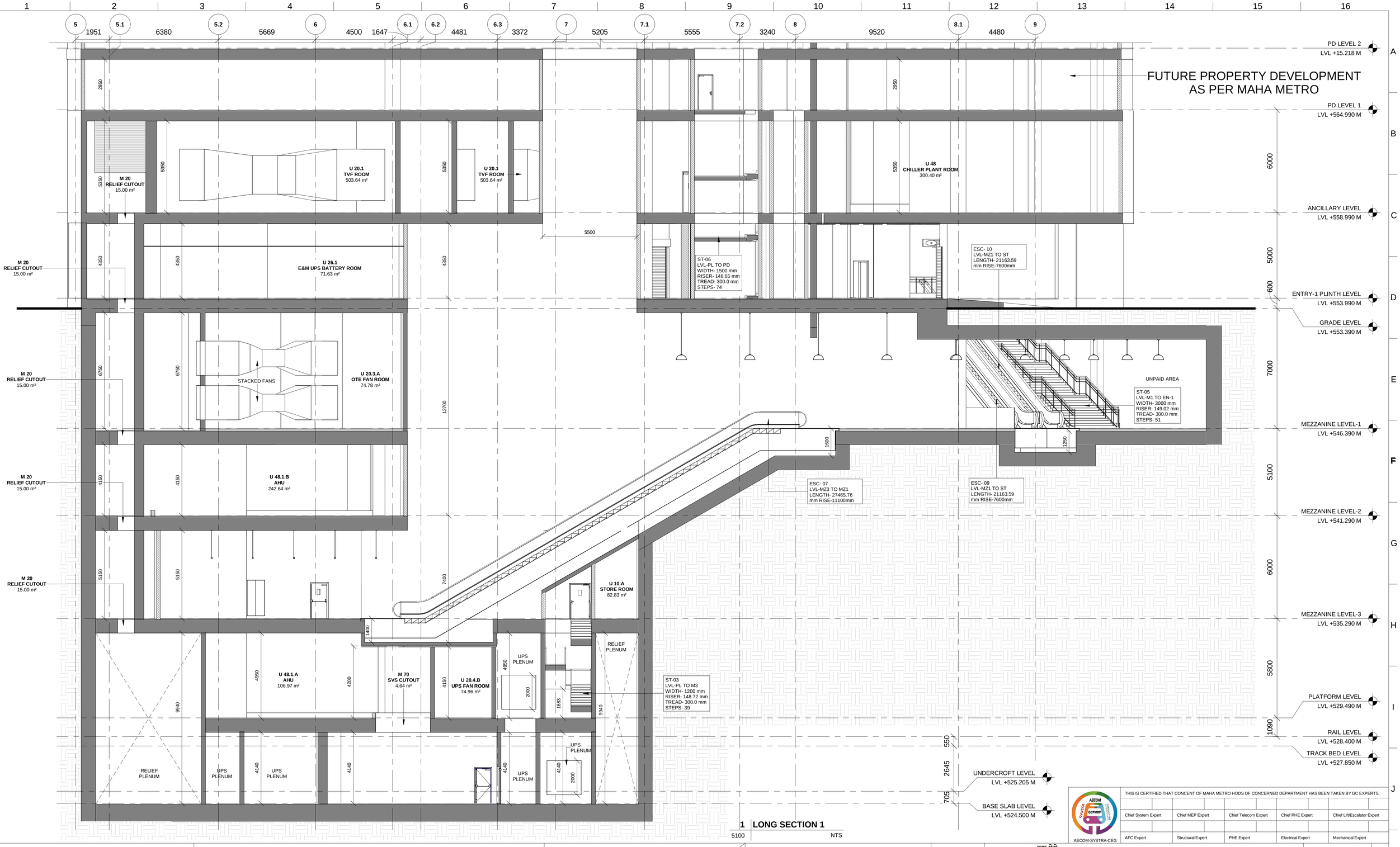
TITLE: **TYPICAL PD LEVEL PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - ZZ - DRP - 5000

ARCHITECTURE

plot scale 50mm



1 **LONG SECTION 1**

5100 NTS

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DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

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REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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HOD

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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **LONG SECTION 1**

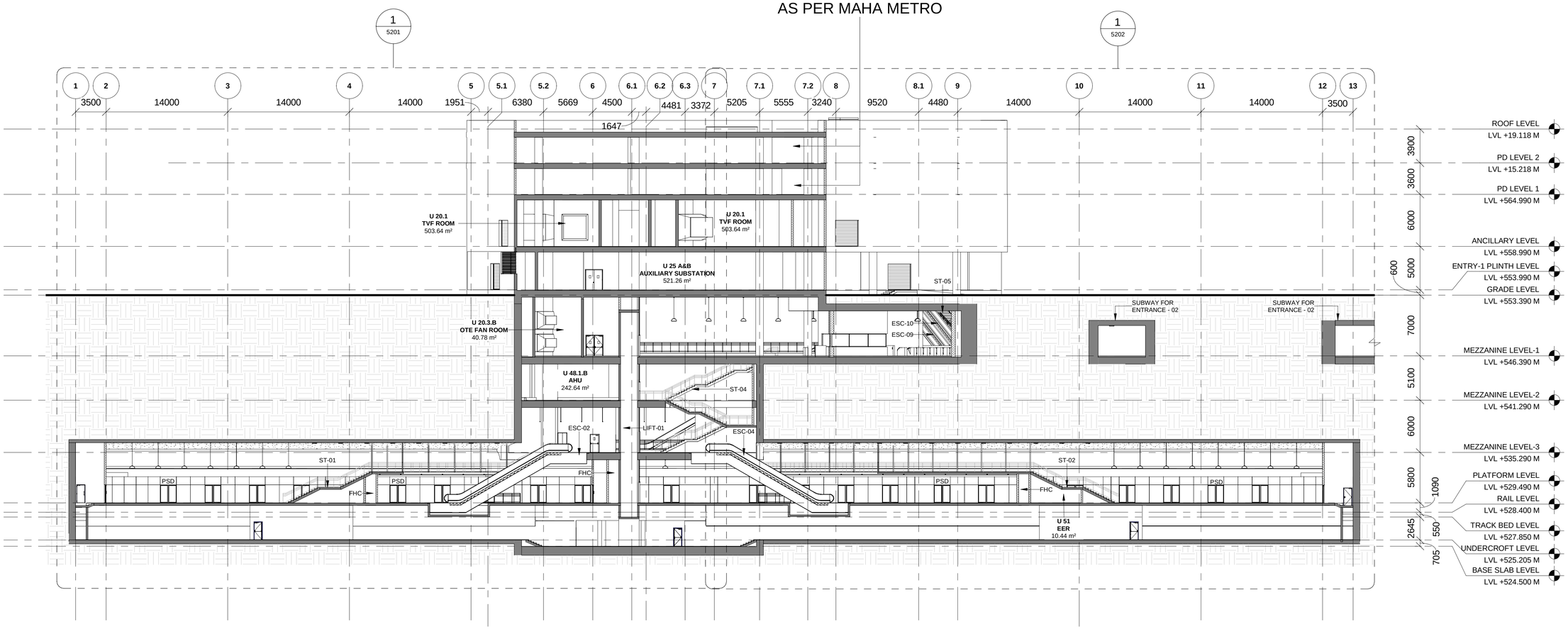
SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5100

ARCHITECTURE

plot scale 50mm

FUTURE PROPERTY DEVELOPMENT
AS PER MAHA METRO



2 LONG SECTION 2

5200 | Scale: 1 : 250

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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DATE:	DATE:
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N/A

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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **LONG SECTION 2**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

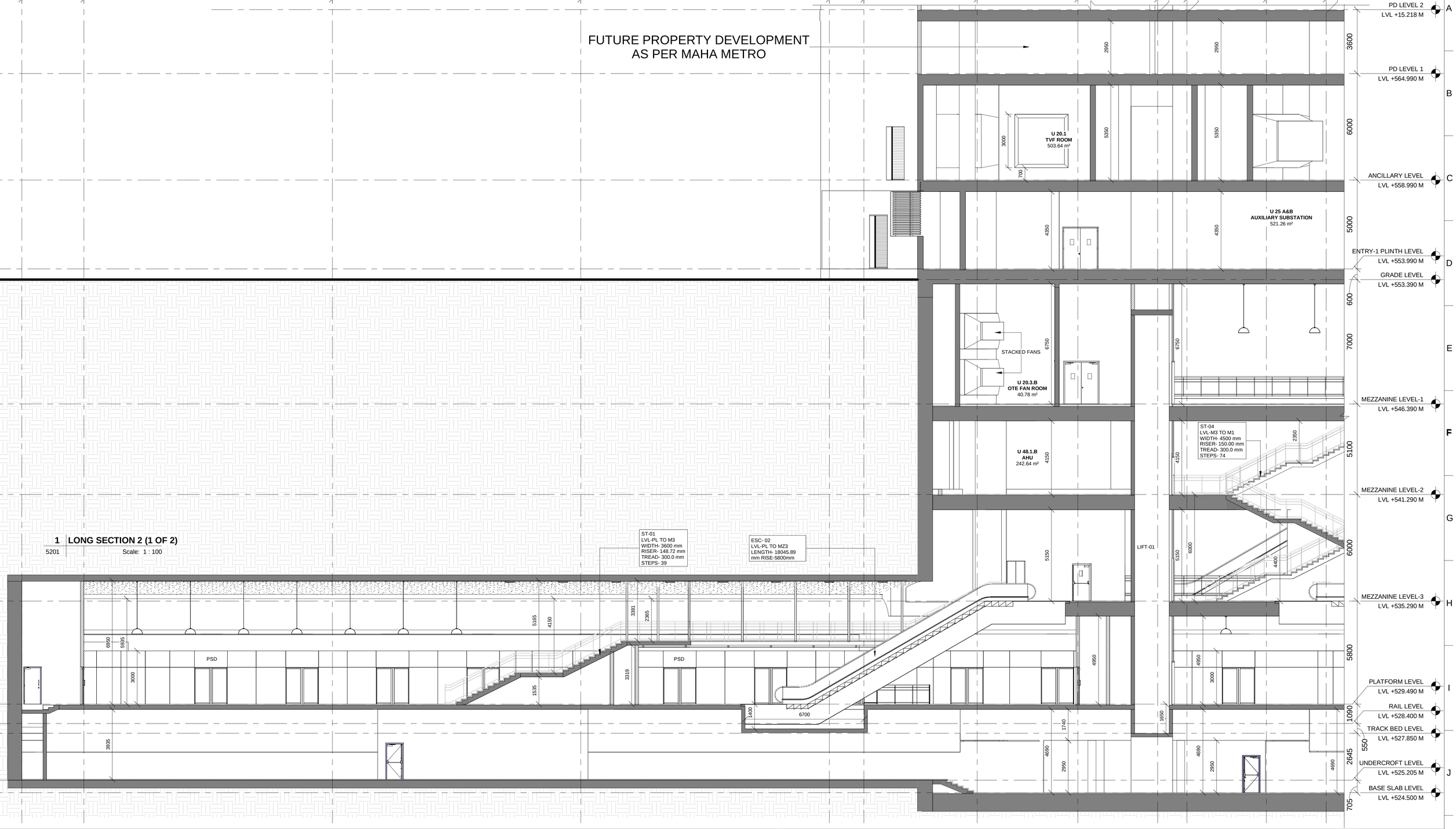
DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5200

ARCHITECTURE

plot scale 50mm

FUTURE PROPERTY DEVELOPMENT
AS PER MAHA METRO

1 LONG SECTION 2 (1 OF 2)
5201 Scale: 1 : 100



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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

☐ Proof checked by GC
☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

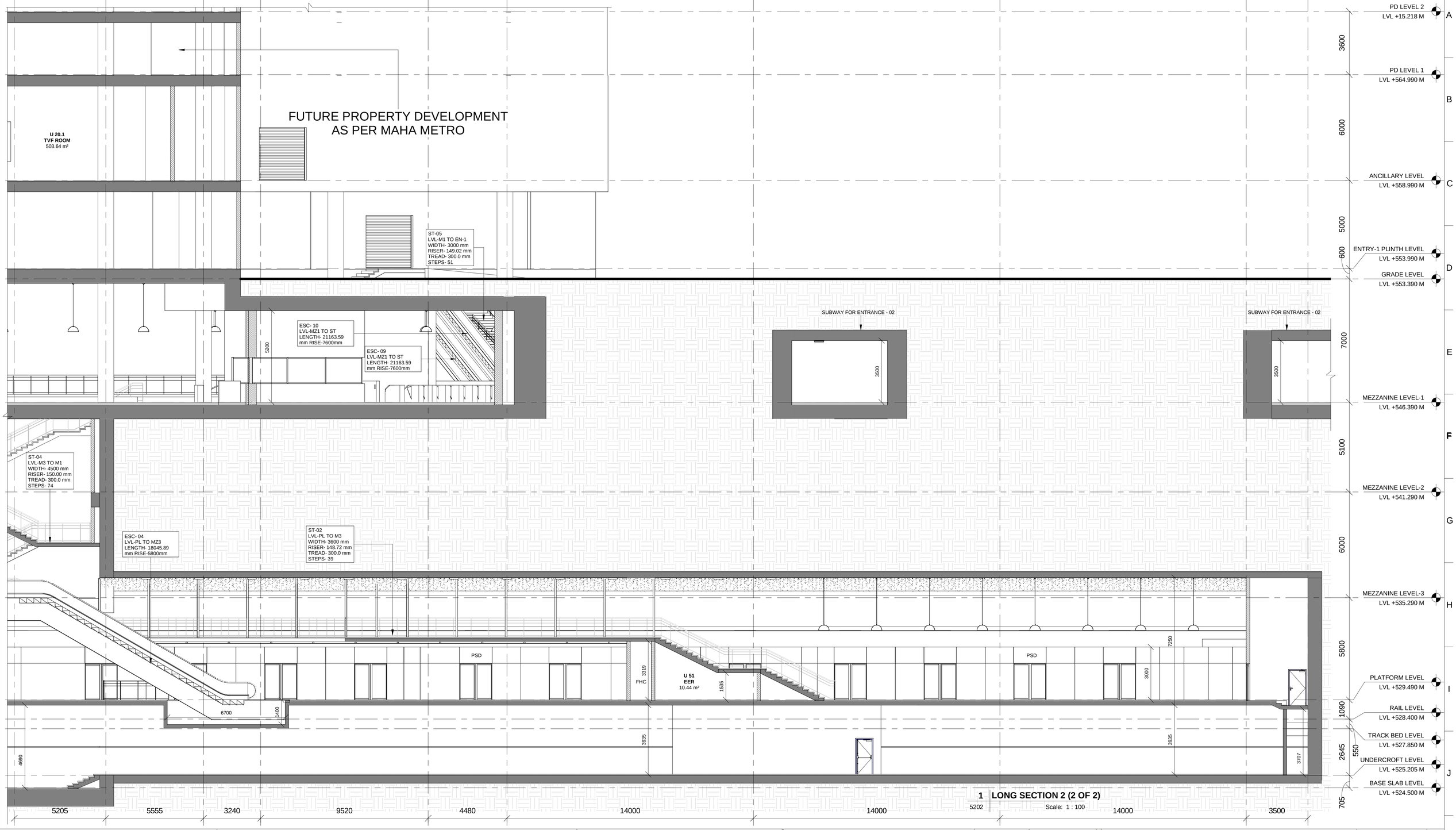
TITLE: **LONG SECTION 2 (1 OF 2)**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5201

ARCHITECTURE

plot scale 50mm



1 **LONG SECTION 2 (2 OF 2)**

Scale: 1 : 100

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AECOM

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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HOD

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

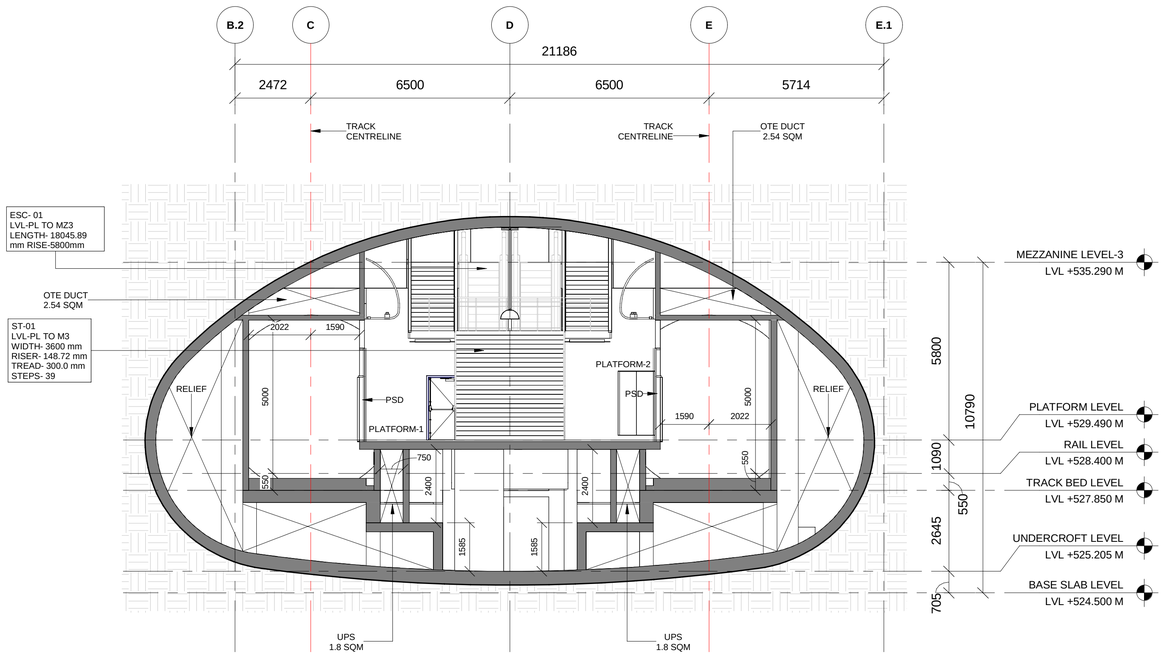
TITLE: **LONG SECTION 2 (2 OF 2)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5202

ARCHITECTURE

plot scale 50mm



3 | CROSS SECTION 3

5501 | Scale: 1 : 100

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **CROSS SECTION 3**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5501

ARCHITECTURE

plot scale 50mm

4 CROSS SECTION 4

5502 NTS

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

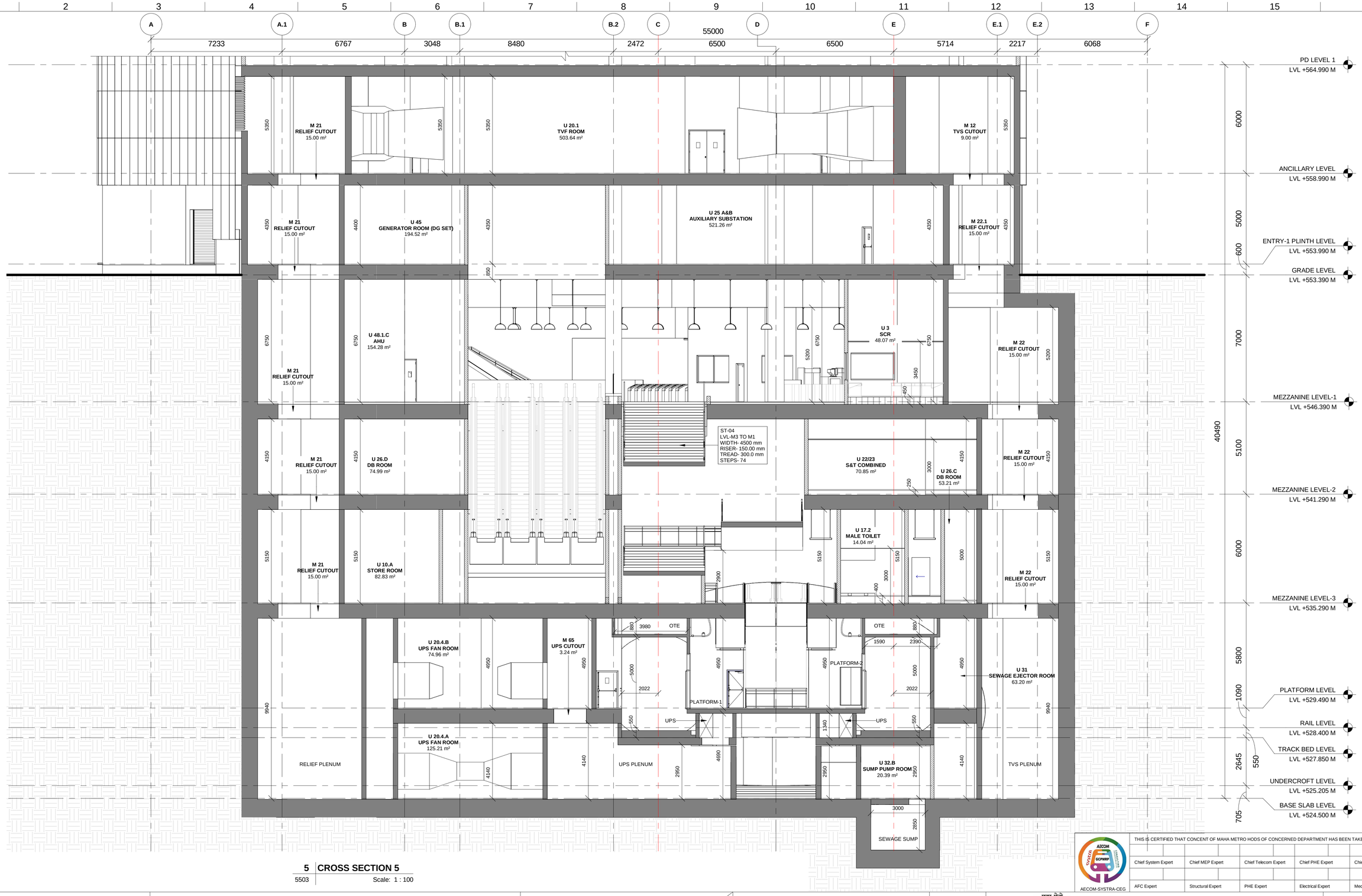
TITLE: **CROSS SECTION 4**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5502

ARCHITECTURE

plot scale 50mm



5 CROSS SECTION 5

5503 Scale: 1 : 100

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

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- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

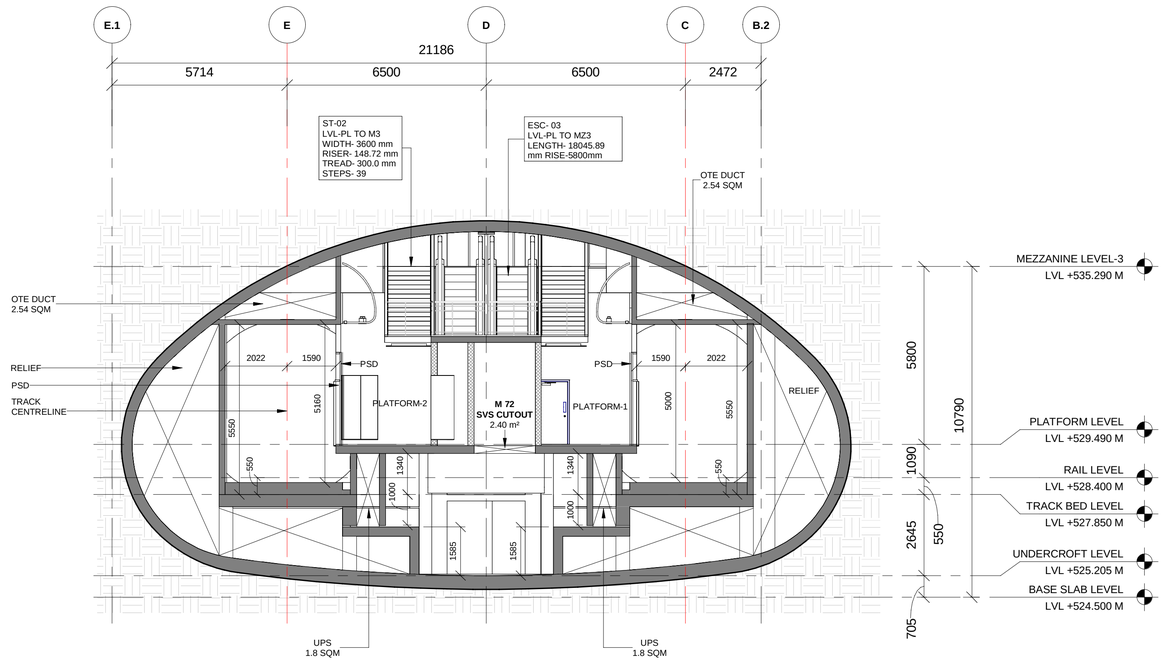
TITLE: **CROSS SECTION 5**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5503

ARCHITECTURE

plot scale 50mm



6 CROSS SECTION 6

5504 Scale: 1 : 100

NOTES:

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **BUDHWARPETH STATION**

TITLE: **CROSS SECTION 6**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - BDP - DSE - 5504

ARCHITECTURE

plot scale 50mm

TO SHIVAJINAGAR STATION

TO SWARGATE STATION

N

SITE BOUNDARY LINE

CENTERLINE OF ELEVATED STATION TRACK

SITE BOUNDARY LINE

ELEVATED STATION

TRACK CENTERLINE

CIVIL COURT BUILDING

FAMILY COURT BUILDING

PARKING SPACE

N RANADE ROAD

DENGLE BRIDGE ROAD

DROP OFF

DP LINE

+550.864 m ROAD LVL

+551.600 m ROAD LVL

+551.650 m SIDEWALK LVL

+549.590 m ROAD LVL

+549.740 m SIDEWALK LVL

COURT'S COMPOUND WALL

+552.050 m ENTRY LVL

LIFT-07

TOWARDS COURT

+551.950 m LANDING LVL

+551.500 m ROAD LVL

ENTRY 4

EXISTING SUBWAY/STAIRCASE

TOWARDS ROAD/FOOTPATH

COURT'S COMPOUND WALL

+551.485 m ROAD LVL

+548.330 m ROAD LVL

SITE DEVELOPMENT PLAN IN ELEVATED STATION DDC'S SCOPE

(INCLUDING SOFT AND HARD LANDSCAPE)

PROPOSED PD BUILDING FOR FUTURE

ENTRY 3

+552.290 m ENTRY LVL

ST-07

ECS-12

ECS-11

ESC-14

ESC-13

ST-08

ELECTRICAL ROOM & ESCALATOR PANEL ROOM

LIFT-06

LIFT-05

+550.740 m ENTRY LVL

ENTRY 2 (FUTURE ENTRY)

+550.340 m GREEN COVER

+551.540 m PLAZA LVL

+550.340 m PLAZA LVL

PLANTER

56800 SKYLIGHT

20150

EXHAUST CUTOUT 4240X2600

FRESH AIR CUTOUT 4240X2600

RELIEF CUTOUT 16.231 SQM

PHE SHAFT

RELIEF CUTOUT 15.417 SQM

ESC-09

ESC-10

ST-06

ST-05

LIFT-03

LIFT-04 PHE SHAFT

ELE SHAFT

AFC, S&T SHAFT

+550.790 m INTERCHANGE LOBBY

PLAZA

RETAIL

SCR

ENTRY 1

INTERCHANGE LOBBY (FROM ELEVATED STATION TO UNDERGROUND STATION)

ENTRY TO ELEVATED STATION

ANCILLARY BUILDING

SITE BOUNDARY LINE

RIVER

TOWARDS SITE BOUNDARY

EXISTING SITE BOUNDARY

RAMP ON TO BASEMENT 1

RAMP UP FROM BASEMENT 1

SW DUCT DOWNWARD FOR PHE TUNDISH

FLOOR LEVELS AT OUTSIDE

NO OBSTRUCTION

SWING DOOR

SUB STATION ROOM

ESTATE OFFICE

UNDER CONSTRUCTION

FOOD COURT

TER

BAR

FLOOR LEVELS AT CONCOURSE & PLATFORM LEVEL

RETAIL BOUTIQUE

ESTATE OFFICE

UNDER CONSTRUCTION

TER

BAR

2 WAY MACHINE

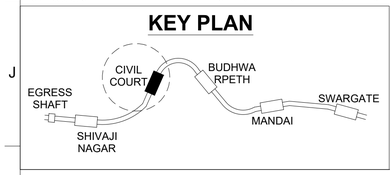
A	2400
A1	7675
B	7675
B1	20150
C	2400

1000

1 GROUND LEVEL MASTER PLAN

Scale: 1 : 500

KEY PLAN



8790	13310	18200	20700	14000	22100	16100	15350	8100	6400	6950
1	2	3	4	5	6	7	8	9	10	11	12

150000

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT		REVIEWED BY	APPROVED BY
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19/06/2021	DATE: 19/06/2021	DATE: 19/06/2021	DATE:19/06/2021	DATE:	DATE:	DATE:	DATE:	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:	NAME:	NAME:	NAME:	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- Proof checked by GC
- Being Given No Objection
- Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

REV NO	DATE	DESCRIPTION	SIGN
B04	26/06/2021	Structural Comments Incorporated	
B03	09/11/2020	GC Comments Incorporated	
B02	15/09/2020	GC Comments Incorporated	
B01	28/02/2020	GC Comments Incorporated	

AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**

The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **CIVIL COURT STATION**

TITLE: **GROUND LEVEL MASTER PLAN**

SCALE: 1:500 | DATE20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - GL - DRP - 1000

ARCHITECTURE

plot scale 50mm

TO SHIVAJINAGAR STATION

TO SWARGATE STATION

SEEPAGE PIT 1200x1200x2450

IG

LIFT-07

546.630 m

RAMP

LANDING

RAMP

LANDING

RAMP

ENTRY 3 (TO N. RANADE STREET) 158.28 m²

ESC-14

ESC-13

SEEPAGE PIT 1200x1200x2450

UP

UP

UP

ST-08

UP

ELET CUT OUT

PHE CUT OUT

LIFT-06

ST-07

ESC-11

ESC-12

UP

UP

UP

LIFT-05

ENTRY 2 (FUTURE ENTRY)

ENTRY 2 (FUTURE ENTRY) 278.87 m²

U 31 SEWAGE EJECTOR ROOM 5.91 m²

SEWAGE PIT BELOW

KNOCKOUT PANELS

U 17.1 MALE TOILET 5.2 m²

U 17.3 BABY CARE 1.89 m²

U 25 SCR 38.32 m²

TVM

ME 77.0 SVS & EVS CUTOUT 6.12 m²

RETAIL 74.91 m²

U 17.2 FEMALE TOILET 5.2 m²

SERVICE TRANSFER AREA

DOUBLE SLAB AT +3000 mm

FHC

LADIES FRISKING BOOTH

DFMD

DFMD

X-RAY

AFC GATES IN GATES

PL12.0 PHE SHAFT 1.80 m²

FHC

EL 12.0 ELECUTOUT 1.16 m²

ELECTRICAL ROOM

ES-01.1

U5.1 & U7.1 EFO&TOM 22.93 m²

LIFT-01

LIFT-02

AFC GATES

OUT GATES

DN

ST-01

ESC-02

ESC-01

DN

DN

ESC-06

ESC-05

ESC-07

ESC-08

DN

ST.03

CONNECTION BRIDGE

ESC-03

ESC-04

PAID AREA 2 (CON) 87.02 m²

ST-02

Retail / Spare Room 106.26 m²

ST 10.1 AFC, S&T SHAFT 0.94 m²

EL 11.1 ELE SHAFT 0.68 m²

ST-06

UP

FHC

LIFT-03

LIFT-04

DN

ST-04

UP

ST-05

PHE SHAFT ABOVE

ES-02.1

ES-01.1

ES-04.1

ES-03.1

ME 40.2 FRESH AIR 9.10 m²

ME 30.2 EXHAUST 9.10 m²

ME 22.2 RELIEF CUTOUT 15.00 m²

STATION WALL BELOW

RELIEF CUTOUT ABOVE

EXHAUST AIR CUTOUT ABOVE

SPARE ROOM 5.63 m²

PL 11.1 PHE SHAFT 1.30 m²

EL 20.1 HT SHAFT 3.05 m²

EL 22.2 LT SHAFT 1.50 m²

U 44B WATER TANKS 180.67 m²

FHC

FRESH AIR CUTOUT ABOVE

RELIEF CUTOUT ABOVE

RWT-01

RWT-02

FWT-01

FWT-02

ME 23.3 RELIEF CUTOUT 15.00 m²

STATION WALL BELOW

STATION WALL BELOW

PHE SHAFT

RELIEF CUTOUT ABOVE

EXHAUST CUTOUT 4240X2600

FRESH AIR CUTOUT 4240X2600

RELIEF CUTOUT 15.417 SQM

DRY CLADDING AS PER SPECIFICATON

ME 82.0 EVS CUTOUT 2.25 m²

5885

U 26G DB ROOM 17.88 m²

U 15.8 SERVICE CORRIDOR 29.57 m²

UT 11.0 UTILITY SHAFT 4.00 m²

UTILITY GALLERY FOR ANCILLARY BUILDING

ANCILLARY BUILDING ABOVE

Z4

Z3

Z2

Z1

P

Q

R

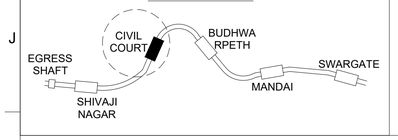
8790 | 13310 | 18200 | 20700 | 14000 | 22100 | 16100 | 15350 | 8100 | 6400 | 6950 — 150000

2400 | 7675 | 7675 | 2400 — 20150

1 CONCOURSE LEVEL KEY PLAN

2000 Scale: 1 : 250

KEY PLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION
B03.1	08/01/21	OTE Cutout Updated to Facilitate Structure & HVAC
B03.2	08/01/21	LT Shaft location Updated as Per Structure
B03.3	08/01/21	Wall Cutout Updated for Better Circulation
B03.4	08/01/21	ASS Ventilation Cutout Updated as Per Structure
B03.5	08/01/21	HVAC Concrete Duct Above OTE Removed & Metal Ducts Proposed
B03.6	08/01/21	Utility Shaft Cutout Relocated to Facilitate Structure
B03.7	08/01/21	Plumbing Cutout Removed & Pipe Sleeve provided to Facilitate Structure
B03.8	08/01/21	Platform & Undercroft Sump Cutouts Updated as Per Structure

NOTE:
opening in the scledule are not final may be changed as per services requirement.

SCHEDULE OF OPENING - CONCOURSE LVL

NOS	EFF. HEIGHT OF OPENING	EFF. WIDTH OF OPENING	SILL LVL	LINTEL LVL	REMARK
01	4100	2000	+000.00	+2100	DOOR OPENING
02	3000	5000	+000.00	+3000	SERVICES OPENING

ROOM SCHEDULE_CONCOURSE...

Number	Name	Area
U 44B	WATER TANKS	180.67 m²
-	SPARE ROOM	5.63 m²
U 15.8	SERVICE CORRIDOR	29.57 m²
-	SPARE ROOM/ RETAIL	106.26 m²
U 17.2	FEMALE TOILET	5.2 m²
U 17.1	MALE TOILET	5.2 m²
-	UNPAID AREA	769.50 m²
-	ENTRY 2 (FUTURE ENTRY)	278.87 m²
-	ENTRY 3 (TO N. RANADE STREET)	158.28 m²
-	PAID AREA 2 (CON)	87.02 m²
U 26G	DB ROOM	17.88 m²
PL12.0	PHE SHAFT	3.10 m²
EL 12.0	ELECUTOUT	1.16 m²
ME 23.3	RELEF CUTOUT	15.00 m²
ME 22.2	RELIEF CUTOUT	15.00 m²
ME 30.2	EXHAUST	9.12 m²
ME 40.2	FRESH AIR	9.12 m²

ROOM SCHEDULE_CONCOURSE...

Number	Name	Area
PL 11.1	PHE SHAFT	1.30 m²
UT 11.0	UTILITY SHAFT	4.00 m²
ST 10.1	AFC, S&T SHAFT	1.05 m²
EL 11.1	ELE SHAFT	1.05 m²
EL 20.1	HT SHAFT	3.05 m²
ME 82.0	EVS CUTOUT	2.25 m²
ME 77.0	SVS & EVS CUTOUT	7.98 m²
U5.1 & U7.1	EFO&TOM	22.93 m²
-	ELECTRICAL ROOM	16.88 m²
-	PAID AREA 1 (CON)	Redundant Room
EL 22.2	LT SHAFT	1.50 m²
-	ENTRY 4 (FROM SUBWAY)	100.24 m²
U 17.3	BABY CARE	1.89 m²
U 31	SEWAGE EJECTOR ROOM	5.91 m²
U 25	SCR	38.32 m²
-	RETAIL	74.91 m²

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

REV NO	DATE	DESCRIPTION	SIGN
B05	13/11/2021	GC Comments Incorporated	
B04	26/06/2021	Structural Comments Incorporated	
B03	09/11/2021	GC Comments Incorporated	
B02	15/09/2020	GC Comments Incorporated	
B01	28/02/2020	GC Comments Incorporated	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	
DATE: 13.11.2021	DATE: 13.11.2021	DATE:	DATE:	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **CIVIL COURT STATION**

TITLE: **CONCOURSE LEVEL KEY PLAN**

SCALE: 1:250 | DATE:13.11.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B05

DRG NO: P4D02 - ACM - AR - PRM - CVC - CL - DRP - 2000

ARCHITECTURE

plot scale 50mm

MATCHLINE

REFER TO 1 / 2004

REFER TO 1 / 2002

MATCHLINE

U 25
SCR

RETAIL
87.67 m²

PROPOSED AREA FOR RETAIL TILL FUTURE ENTRY OPEN FOR PUBLIC.

SWEAGE PIT BELOW 4000X2600X KNOCK-OUT PANEL

ME 77.0
SVS & EVS CUTOUT
7.98 m²

U 31
SEWAGE EJECTOR ROOM

F4	C2
+545.240 m	+0 M

U 17.1
MALE TOILET

F4	C2
+545.240 m	+0 M

U 17.3
BABY CARE

F4	C2
+545.240 m	+0 M

U 17.2
FEMALE TOILET

F4	C2
+545.240 m	+0 M

SERVICE TRANSFER AREA

SERVICE TRANSFER AREA

+545.390 M (FFL)

+545.090 M (FFL)

TVM

FHC

LADIES FRISKING BOOTH

DFMD

IN GATES

X-RAY

DFMD

AFC GATES

PL12.0
PHE SHAFT
3.10 m²

EL 12.0
ELECUTOUT
1.16 m²

+542.628 M (FFL)

ELETRICAL ROOM

+545.090 M (FFL)

+544.167 M (FFL)

+543.859 M (FFL)

ES-01.1
LVL-MEZ 3-CON

U5.1 & U7.1
EFO&TOM

F5	C1
+545.390 M	+3 M

+545.090 M (FFL)

+545.390 M (FFL)

+545.090 M (FFL)

LIFT-01
LVL-PL-CON
LENGTH-1950mm
WIDTH-2550mm
RISE-22000mm

LIFT-02
LVL-PL-CON
LENGTH-1950mm
WIDTH-2550mm
RISE-22000mm

RAILING
(AS PER DETAIL)

+535.090 M (FFL)

ESC- 02
LVL-PL-MZ2
LENGTH- 29024.61 mm
RISE-12000mm

+543.490 M (FFL)

545.090 m

ST-01
LVL-PLT-CON

+535.090 M (FFL)

ESC- 01
LVL-PL-MZ2
LENGTH- 29024.61 mm
RISE-12000mm

ESC- 06
LVL-MZ2-CN
LENGTH- 25320.51 mm
RISE-10000mm

ESC- 05
LVL-MZ2-CN
LENGTH- 25320.51 mm
RISE-10000mm

FFL 545.090 m

+535.090 M (FFL)

TRACK CENTER

STATION WALL BELOW

STATION WALL BELOW

OUT GATES

PHE SHAFT

EXHAUST CUTOUT

FRESH AIR CUTOUT

RELIEF CUTOUT ABOVE

RELIEF CUTOUT
15.417 SQM

MATCHLINE

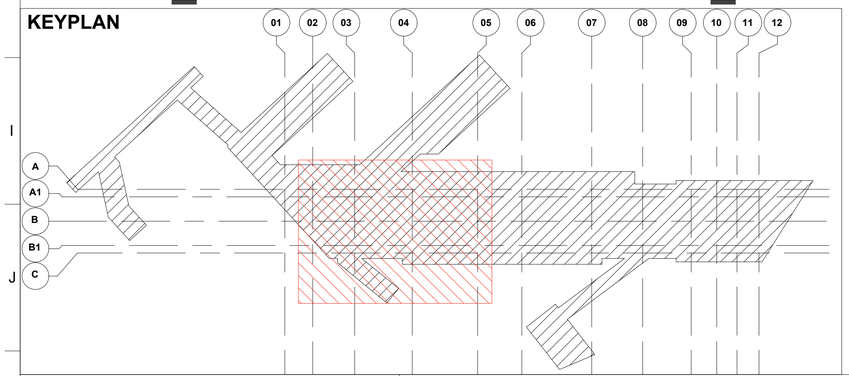
LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE : CONCOURSE

Number	Name	Area
U 44B	WATER TANKS	180.67 m²
-	SPARE ROOM	5.63 m²
U 15.8	SERVICE CORRIDOR	29.57 m²
-	SPARE ROOM	96.30 m²
U 17.2	FEMALE TOILET	4.41 m²
U 17.1	MALE TOILET	4.41 m²
-	UNPAID AREA	769.50 m²
-	ENTRY 2 (FUTURE ENTRY)	278.87 m²
-	ENTRY 3 (TO N. RANADE STREET)	158.28 m²
-	PAID AREA 2 (CON)	87.02 m²
U 26G	DB ROOM	15.58 m²
PL12.0	PHE SHAFT	3.10 m²
EL 12.0	ELECUTOUT	1.16 m²
ME 23.3	RELEF CUTOUT	15.00 m²
ME 22.2	RELIEF CUTOUT	15.00 m²
ME 30.2	EXHAUST	9.10 m²
ME 40.2	FRESH AIR	9.10 m²
PL 11.1	PHE SHAFT	1.30 m²
UT 11.0	UTILITY SHAFT	4.00 m²
ST 10.1	AFC, S&T SHAFT	1.05 m²
EL 11.1	ELE SHAFT	1.05 m²
EL 20.1	HT SHAFT	3.05 m²
ME 82.0	EVS CUTOUT	2.25 m²
ME 77.0	SVS & EVS CUTOUT	7.98 m²
U5.1 & U7.1	EFO&TOM	22.93 m²
-	ELECTRICAL ROOM	16.88 m²
-	PAID AREA 1 (CON)	Redundant Room
EL 22.2	LT SHAFT	1.50 m²
-	ENTRY 4 (FROM SUBWAY)	100.24 m²
U 17.3	BABY CARE	2.36 m²
U 31	SEWAGE EJECTOR ROOM	5.91 m²
U 25	SCR	38.32 m²
-	RETAIL	87.67 m²

KEYPLAN



1 CONCOURSE LEVEL LAYOUT PLAN (1 OF 5)
2001
Scale: 1 : 100

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:
1. THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY. ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY, AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS AND CSD DRAWINGS	
B03	26.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT UNDER GROUND STATION

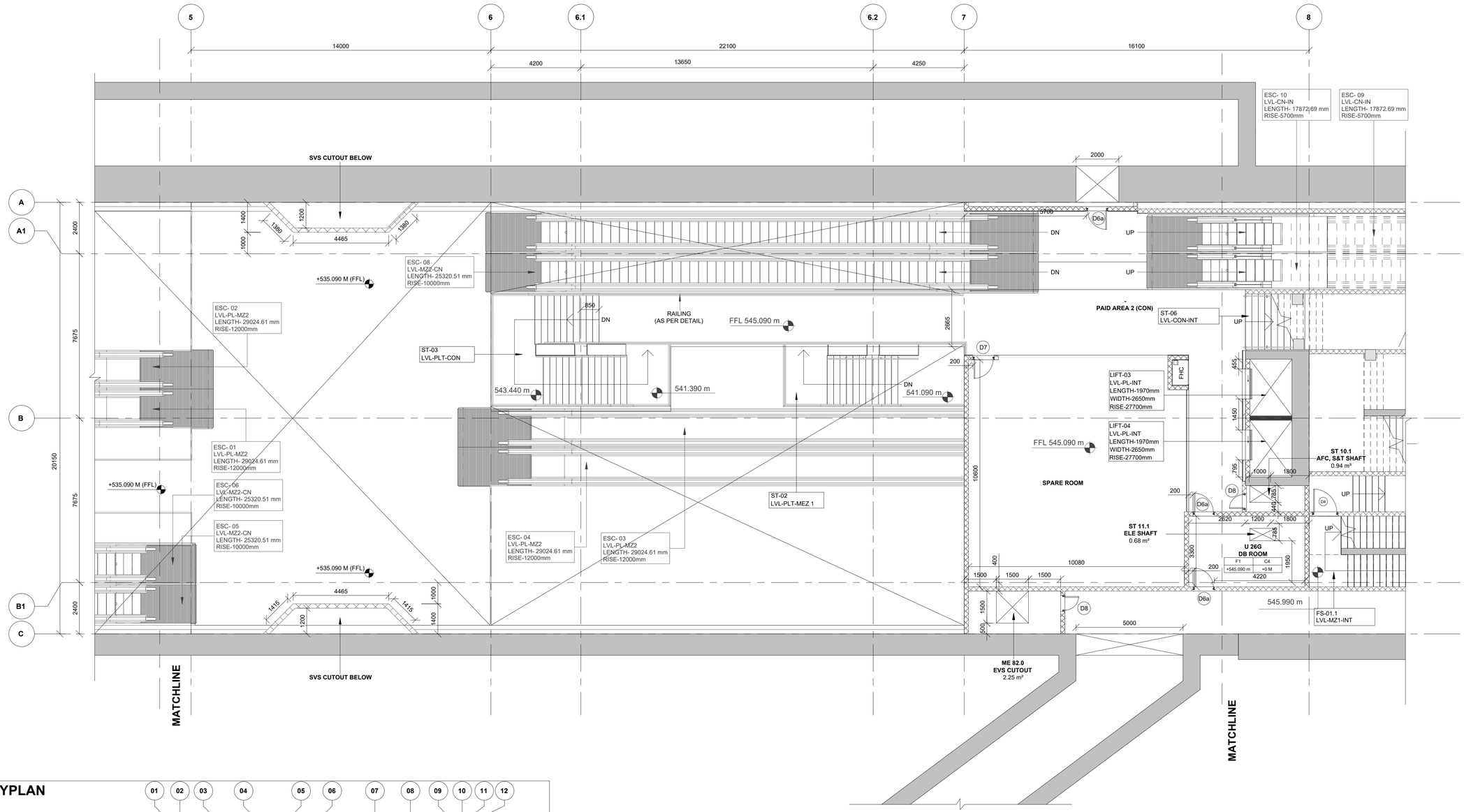
TITLE: CONCOURSE LEVEL LAYOUT PLAN (1 OF 5)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

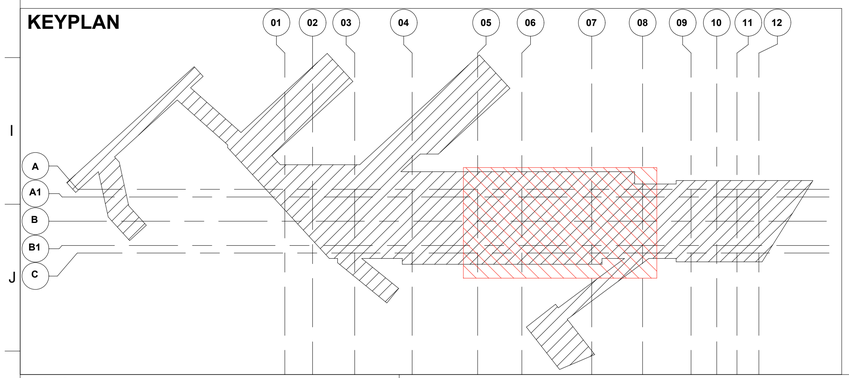
DRG NO: P4D02 - ACM - AR - PRM - CVC - CL - DRP - 2001

ARCHITECTURE

plot scale 50mm



KEYPLAN



1 CONCOURSE LEVEL LAYOUT PLAN (2 OF 5)
2002 Scale: 1 : 100

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE : CONCOURSE

Number	Name	Area
U 44B	WATER TANKS	180.67 m²
-	SPARE ROOM	5.63 m²
U 15.8	SERVICE CORRIDOR	29.57 m²
-	SPARE ROOM	96.30 m²
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EL 11.1	ELE SHAFT	1.05 m²
EL 20.1	HT SHAFT	3.05 m²
ME 82.0	EVS CUTOUT	2.25 m²
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U 25	SCR	38.32 m²
-	RETAIL	87.67 m²

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS AND CSD DRAWINGS	
B03	26.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT UNDER GROUND STATION

TITLE: CONCOURSE LEVEL LAYOUT PLAN (2 OF 5)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

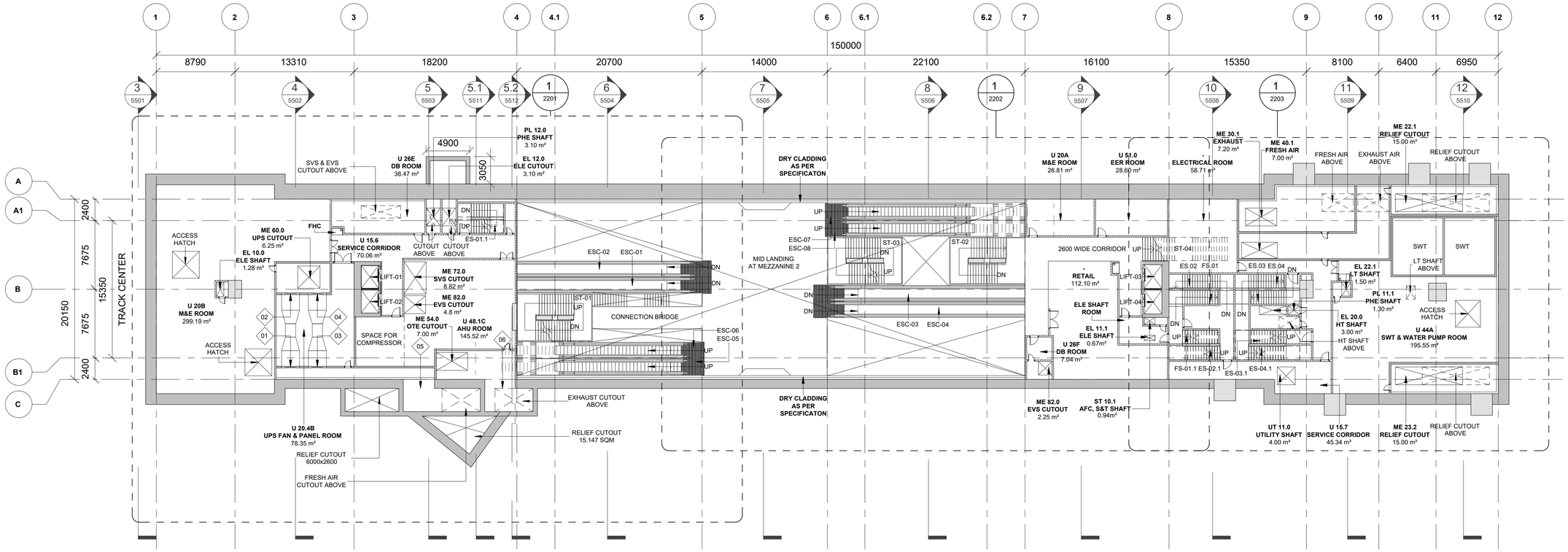
DRG NO: P4D02 - ACM - AR - PRM - CVC - CL - DRP - 2002

ARCHITECTURE

plot scale 50mm

TO SHIVAJINAGAR STATION

TO SWARGATE STATION



1 | MEZZANINE-1 LEVEL KEY PLAN

2200 | Scale: 1 : 250

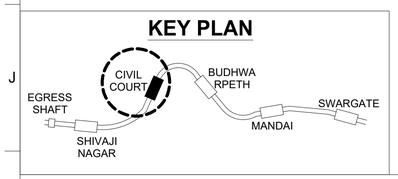
ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
U 20B	M&E ROOM	299.19 m²
U 48.1C	AHU ROOM	145.52 m²
U 23	TER	78.83 m²
U 51.0	EER ROOM	28.60 m²
U 44A	SWT & WATER PUMP ROOM	195.55 m²
U 20.4B	UPS FAN & PANEL ROOM	78.35 m²
U 26E	DB ROOM	38.47 m²
-	ELECTRICAL ROOM	58.71 m²
U 20A	M&E ROOM	26.81 m²
U 15.6	SERVICE CORRIDOR	70.06 m²
ME 82.0	EVS CUTOUT	2.25 m²
ME 72.0	SVS CUTOUT	8.36 m²
ME 82.0	EVS CUTOUT	4.40 m²
PL 12.0	PHE SHAFT	3.10 m²
EL 12.0	ELE CUTOUT	3.10 m²

ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
ME 40.1	FRESH AIR	7.00 m²
ME 30.1	EXHAUST	7.20 m²
UT 11.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
EL 20.0	HT SHAFT	3.00 m²
ST 10.1	AFC, S&T SHAFT	0.94 m²
ME 23.2	RELIEF CUTOUT	15.00 m²
ME 22.1	RELIEF CUTOUT	15.00 m²
ME 60.0	UPS CUTOUT	5.94 m²
EL 10.0	ELE SHAFT	1.28 m²
U 15.7	SERVICE CORRIDOR	45.34 m²
U 26F	DB ROOM	7.04 m²
EL 22.1	LT SHAFT	1.50 m²
-	HT ROOM	9.09 m²
ME 54.0	OTE CUTOUT	7.00 m²
-	RETAIL	112.10 m²

KEY PLAN



THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:	NAME:	NAME:	NAME:	NAME:	
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY	DY. HOD / HOD

N/A

REV NO	DATE	DESCRIPTION	SIGN
B04	20/12/2021	GC COMMENTS INCORPORATED AND CSD DRAWINGS	
B03	09/11/2021	GC Comments Incorporated	
B02	15/09/2020	GC Comments Incorporated	
B01	28/02/2020	GC Comments Incorporated	

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: CIVIL COURT STATION

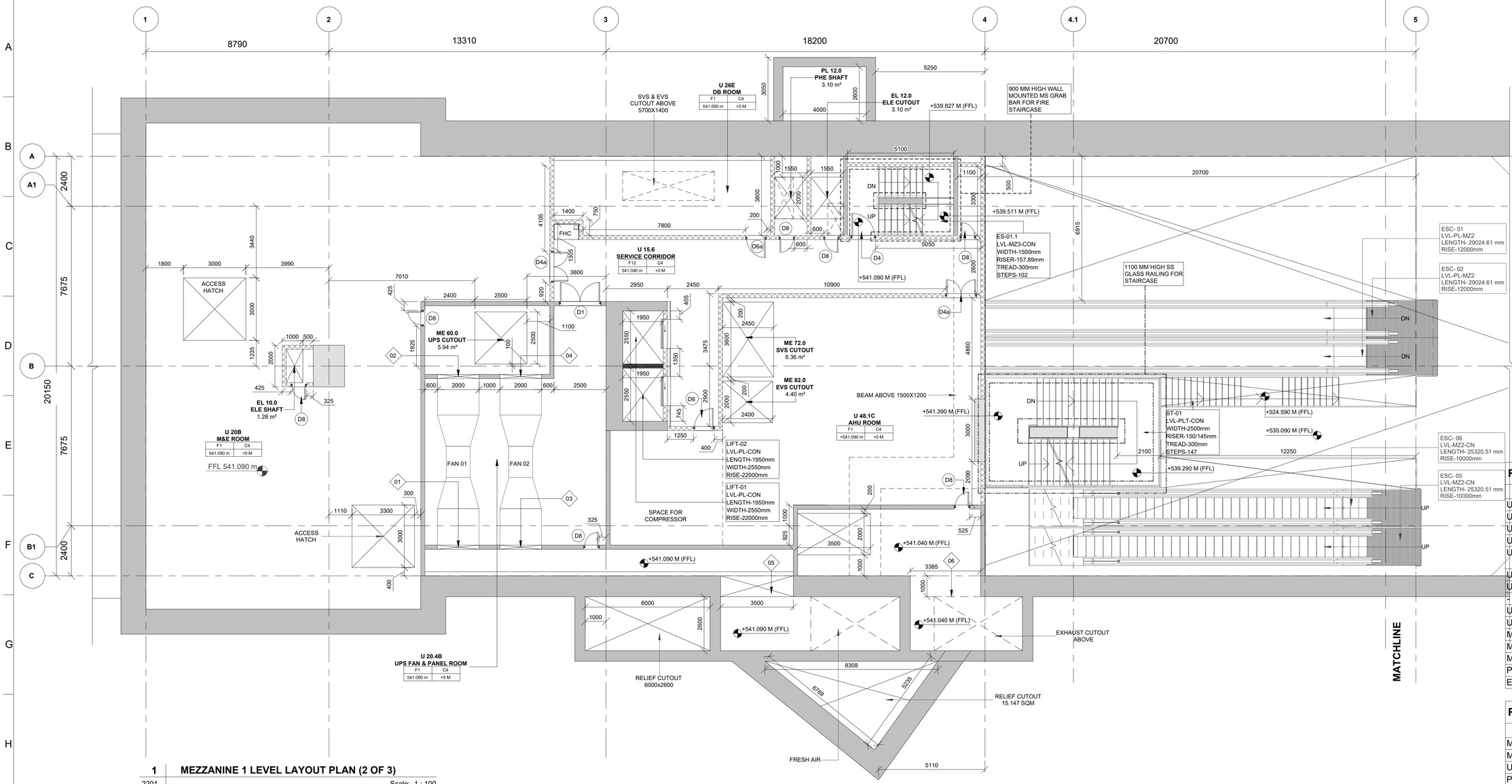
TITLE: MEZZANINE -1 LEVEL KEY PLAN

SCALE: 1:250 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M1 - DRP - 2200

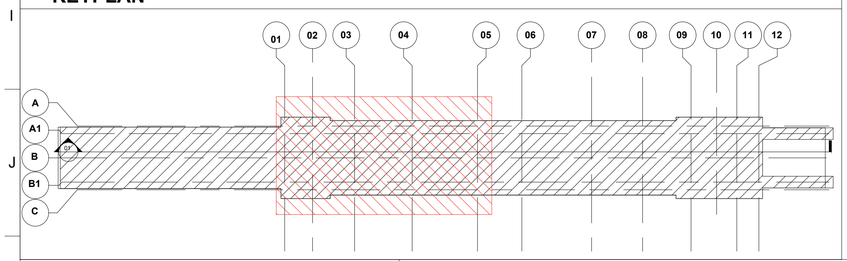
ARCHITECTURE

plot scale 50mm



1 | MEZZANINE 1 LEVEL LAYOUT PLAN (2 OF 3)
2201 | Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
U 20B	M&E ROOM	299.19 m²
U 48.1C	AHU ROOM	145.52 m²
U 23	TER	78.83 m²
U 51.0	EER ROOM	28.60 m²
U 44A	SWT & WATER PUMP ROOM	195.55 m²
U 20.4B	UPS FAN & PANEL ROOM	78.35 m²
U 26E	DB ROOM	38.47 m²
-	ELECTRICAL ROOM	58.71 m²
U 20A	M&E ROOM	26.81 m²
U 15.6	SERVICE CORRIDOR	70.06 m²
ME 82.0	EVS CUTOUT	2.25 m²
ME 72.0	SVS CUTOUT	8.36 m²
ME 82.0	EVS CUTOUT	4.40 m²
PL 12.0	PHE SHAFT	3.10 m²
EL 12.0	ELE CUTOUT	3.10 m²

ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
ME 40.1	FRESH AIR	7.00 m²
ME 30.1	EXHAUST	7.20 m²
UT 11.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
EL 20.0	HT SHAFT	3.00 m²
EL 11.0	ELE SHAFT	1.05 m²
ST 10.1	AFC, S&T SHAFT	2.06 m²
ME 23.2	RELIEF CUTOUT	15.00 m²
ME 22.1	RELIEF CUTOUT	15.00 m²
ME 60.0	UPS CUTOUT	5.94 m²
EL 10.0	ELE SHAFT	1.28 m²
U 15.7	SERVICE CORRIDOR	45.34 m²
U 26F	DB ROOM	7.04 m²
EL 22.1	LT SHAFT	1.50 m²
-	HT ROOM	9.09 m²
ME 54.0	OTE CUTOUT	7.00 m²
-	RETAIL	59.90 m²

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:
1. THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY. ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY, AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS AND CSD DRAWINGS	
B03	12.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT

SIGN:	SIGN:
DATE:	DATE: N/A
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

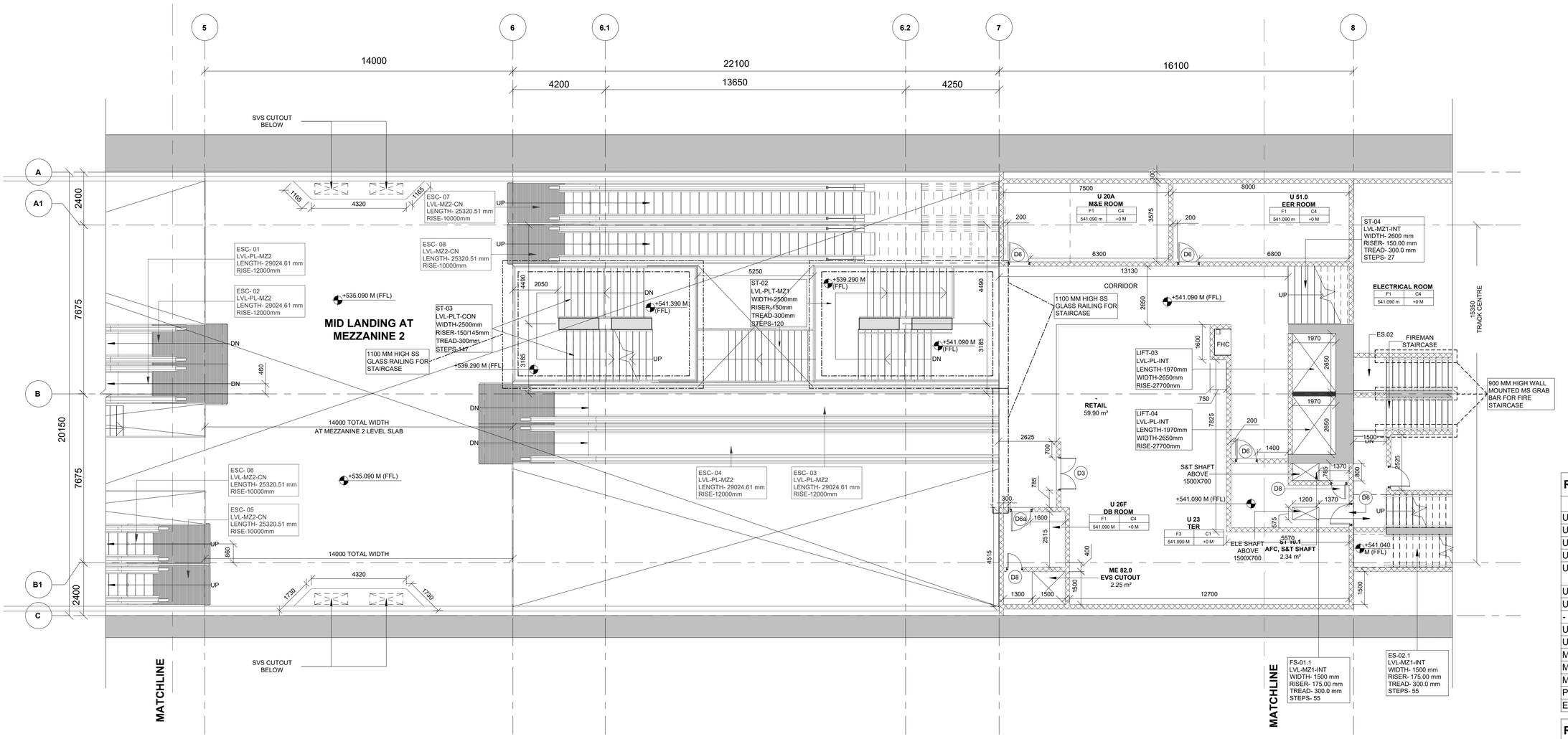
TITLE: MEZZANINE 1 LEVEL LAYOUT PLAN (1 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M1 - DRP - 2201

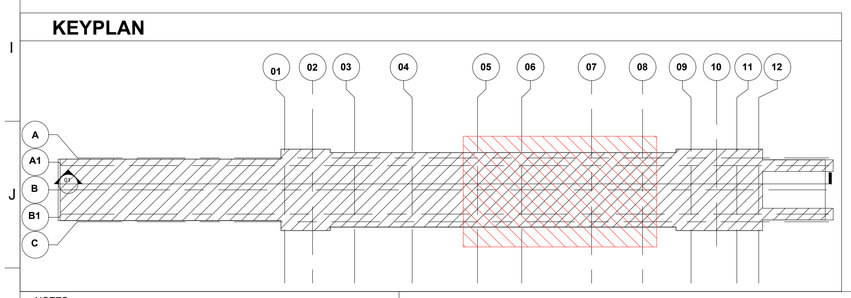
ARCHITECTURE

plot scale 50mm



1 **MEZZANINE 1 LEVEL LAYOUT PLAN (2 OF 3)**
2202 Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
U 20B	M&E ROOM	299.19 m²
U 48.1C	AHU ROOM	145.52 m²
U 23	TER	78.83 m²
U 51.0	EER ROOM	28.60 m²
U 44A	SWT & WATER PUMP ROOM	195.55 m²
U 20.4B	UPS FAN & PANEL ROOM	78.35 m²
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ME 82.0	EVS CUTOUT	4.40 m²
PL 12.0	PHE SHAFT	3.10 m²
EL 12.0	ELE CUTOUT	3.10 m²

ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
ME 40.1	FRESH AIR	7.00 m²
ME 30.1	EXHAUST	7.20 m²
UT 11.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
EL 20.0	HT SHAFT	3.00 m²
EL 11.0	ELE SHAFT	1.05 m²
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EL 22.1	LT SHAFT	1.50 m²
-	HT ROOM	9.09 m²
ME 54.0	OTE CUTOUT	7.00 m²
-	RETAIL	59.90 m²

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWING	
B03	12.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

NIP

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO
DY. HOD
HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

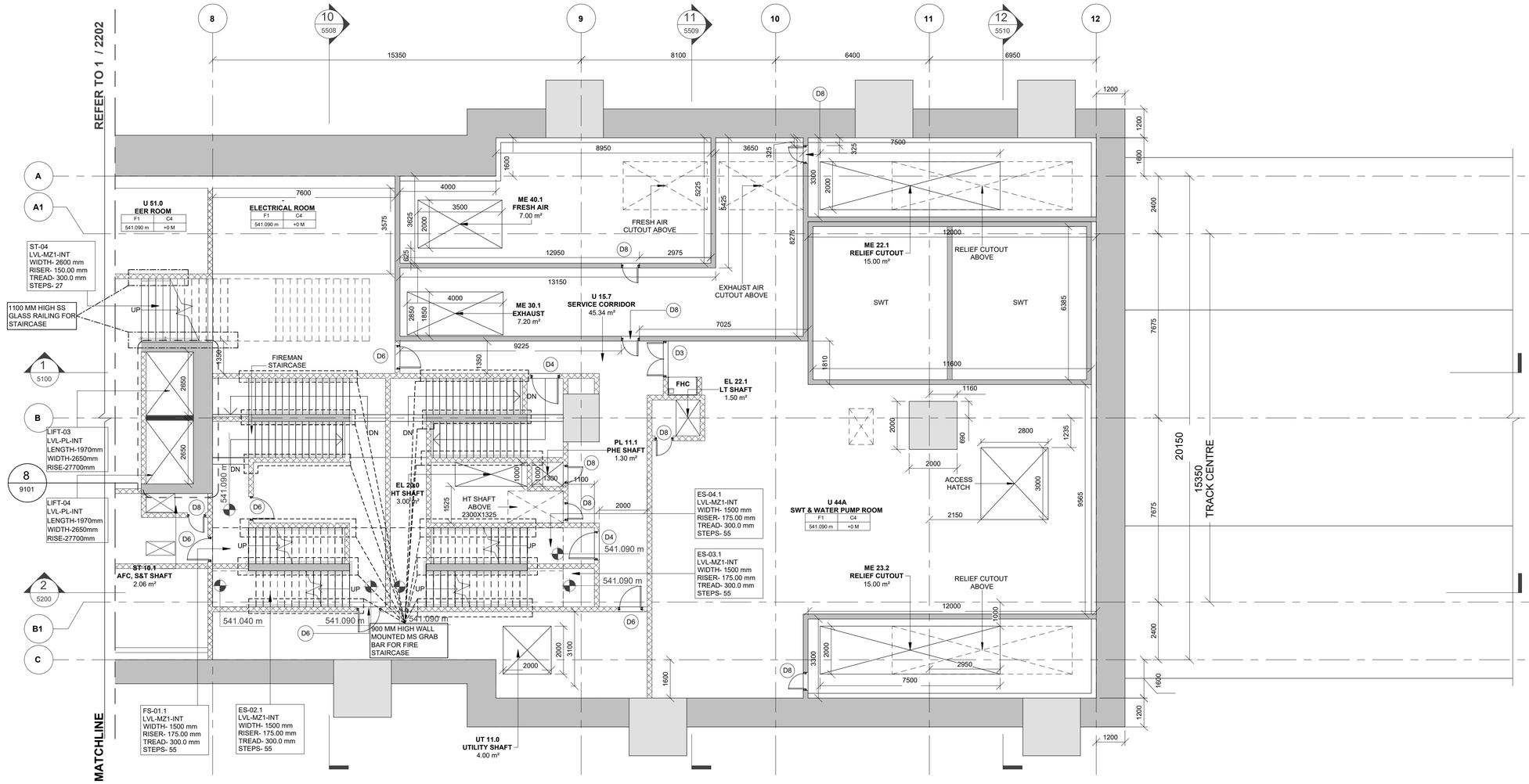
TITLE: MEZZANINE 1 LEVEL LAYOUT PLAN (2 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M1 - DRP - 2202

ARCHITECTURE

plot scale 50mm



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
U 20B	M&E ROOM	299.19 m²
U 48.1C	AHU ROOM	145.52 m²
U 23	TER	78.83 m²
U 51.0	EER ROOM	28.60 m²
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ROOM SCHEDULE_MEZZANINE 1 LEVEL

Number	Name	Area
ME 40.1	FRESH AIR	7.00 m²
ME 30.1	EXHAUST	7.20 m²
UT 11.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
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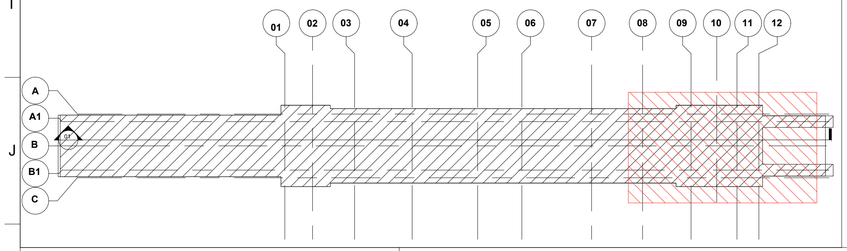
U 26F	DB ROOM	7.04 m²
EL 22.1	LT SHAFT	1.50 m²
-	HT ROOM	9.09 m²
ME 54.0	OTE CUTOUT	7.00 m²
-	RETAIL	59.90 m²

1 | MEZZANINE 1 LEVEL LAYOUT PLAN (3 OF 3)
2203 | Scale: 1 : 100 Scale: 1 : 100

KEYPLAN



FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:
1. THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY. ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY, AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	12.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

TITLE: MEZZANINE 1 LEVEL LAYOUT PLAN (3 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

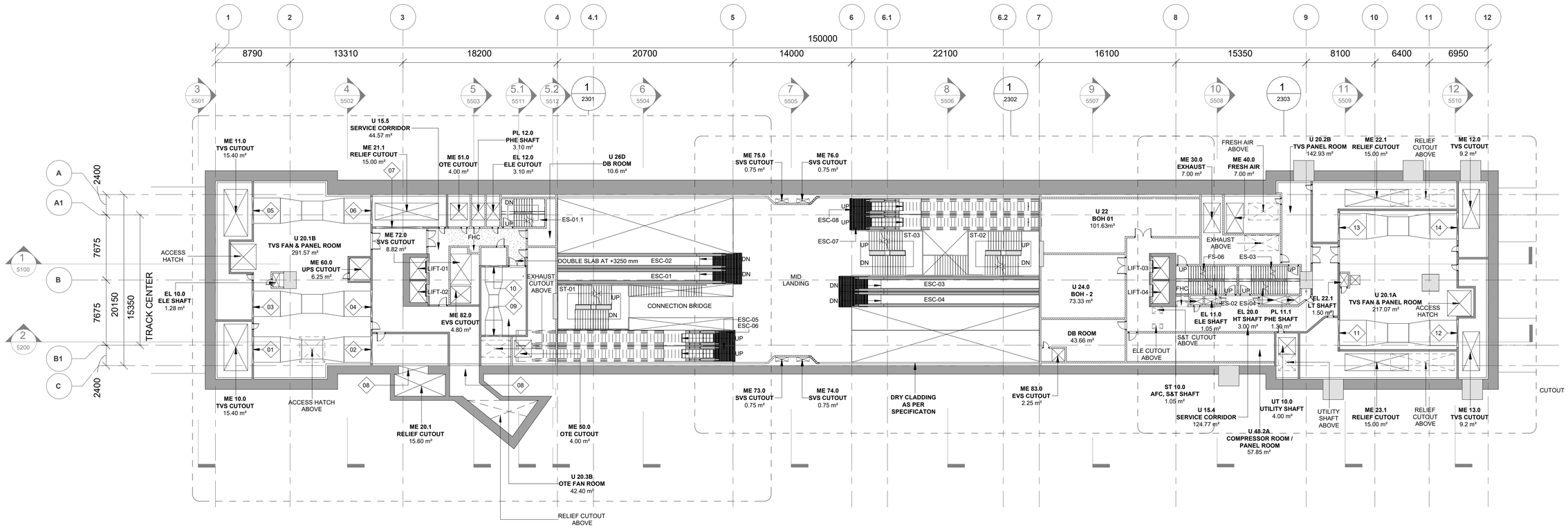
DRG NO: P4D02 - ACM - AR - PRM - CVC - M1 - DRP - 2203

ARCHITECTURE

plot scale 50mm

TO SHIVAJINAGAR STATION

TO SWARGATE STATION



1 MEZZANINE-2 LEVEL KEY PLAN

2300 Scale: 1 : 250

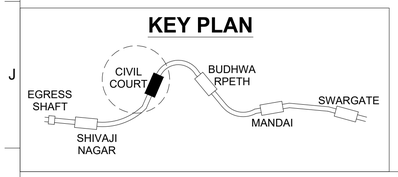
ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
U 20.1A	TVS FAN & PANEL ROOM	217.07 m²
U 48.2A	COMPRESSOR ROOM	57.85 m²
U 26C	DB ROOM	43.66 m²
U 24.0	BOH -2	73.33 m²
U 22	BOH -1	101.63 m²
U 20.2B	TVS PANEL ROOM	142.93 m²
U 15.4	SERVICE CORRIDOR	124.77 m²
U 15.5	SERVICE CORRIDOR	44.57 m²
U 20.3B	OTE FAN ROOM	42.40 m²
U 20.1B	TVS FAN & PANEL ROOM	291.57 m²
U 26D	DB ROOM	6.77 m²
ME 83.0	EVS CUTOUT	2.25 m²
ME 72.0	SVS CUTOUT	8.82 m²
ME 82.0	EVS CUTOUT	4.80 m²
ME 13.0	TVS CUTOUT	9.46 m²
ME 12.0	TVS CUTOUT	9.46 m²
ME 22.1	RELIEF CUTOUT	15.00 m²
ME 23.1	RELIEF CUTOUT	15.00 m²
UT 10.0	UTILITY SHAFT	4.00 m²
ME 61.0	UPS CUTOUT	Redundant Room

ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
PL 11.1	PHE SHAFT	1.30 m²
EL 20.0	HT SHAFT	3.00 m²
EL 11.0	ELE SHAFT	1.05 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
ME 40.0	FRESH AIR	7.00 m²
ME 30.0	EXHAUST	7.00 m²
ME 75.0	SVS CUTOUT	0.75 m²
ME 76.0	SVS CUTOUT	0.75 m²
ME 73.0	SVS CUTOUT	0.75 m²
ME 74.0	SVS CUTOUT	0.75 m²
ME 60.0	UPS CUTOUT	5.94 m²
EL 12.0	ELE CUTOUT	3.10 m²
PL 12.0	PHE SHAFT	3.10 m²
ME 51.0	OTE CUTOUT	4.00 m²
ME 21.1	RELIEF CUTOUT	15.00 m²
ME 50.0	OTE CUTOUT	4.00 m²
ME 10.0	TVS CUTOUT	15.40 m²
ME 11.0	TVS CUTOUT	15.40 m²
EL 10.0	ELE SHAFT	1.28 m²
-	SPARE ROOM	8.68 m²
EL 22.1	LT SHAFT	1.50 m²
ME 20.1	RELIEF CUTOUT	15.60 m²
-	SMR	23.32 m²
-	SPARE ROOM	32.25 m²

KEY PLAN



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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	**Structural Expert**	**PHE Expert**	**Electrical Expert**	**Mechanical Expert**

AECOM-SYSTRA-CEG

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☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:		SIGN:	
DATE: 13.11.2021	DATE: 13.11.2021	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:		DATE:	
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:	NAME:	NAME:	NAME:		NAME:	
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY	

N/A

DY. HOD

HOD

REV NO	DATE	DESCRIPTION	SIGN
B05	13/11/2021	GC Comments Incorporated	
B04	19/06/2021	TVS Comments Incorporated	
B03	09/11/2021	GC Comments Incorporated	
B02	15/09/2020	GC Comments Incorporated	
B01	28/02/2020	GC Comments Incorporated	

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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Fax: 91 124 483 0108, www.aecom.com

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **CIVIL COURT STATION**

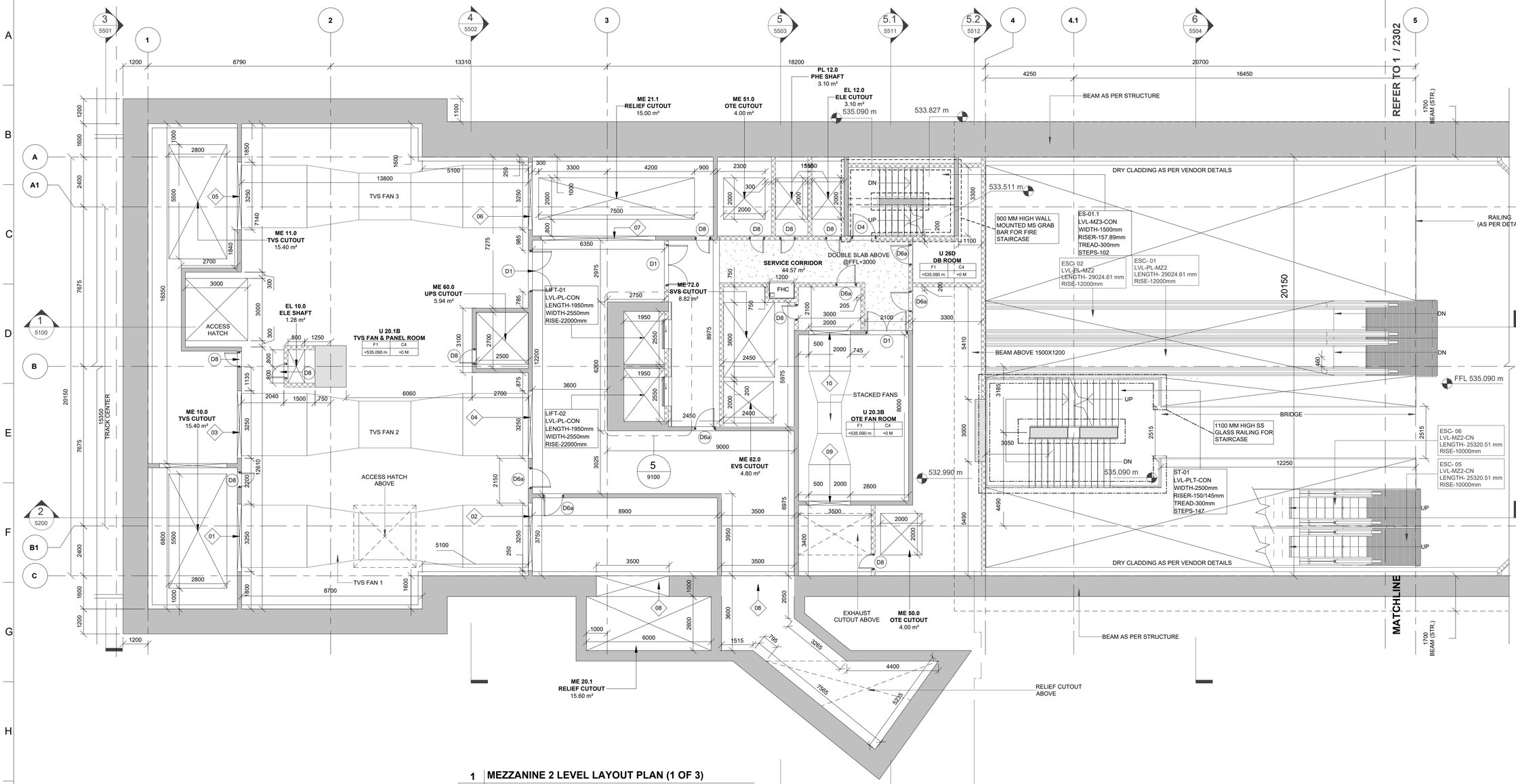
TITLE: **MEZZANINE -2 LEVEL KEY PLAN**

SCALE: 1:250 | DATE: 13.11.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B05

DRG NO: P4D02 - ACM - AR - PRM - CVC - M2 - DRP - 2300

ARCHITECTURE

plot scale 50mm



1 | MEZZANINE 2 LEVEL LAYOUT PLAN (1 OF 3)
2301 | Scale: 1 : 100

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
U 20.1A	TVS FAN & PANEL ROOM	217.07 m²
U 48.2A	COMPRESSOR ROOM	24.94 m²
U 26C	DB ROOM	43.66 m²
U 24.0	BOH - 2	73.33 m²
U 22	BOH - 1	101.63 m²
U 20.2B	TVS PANEL ROOM	142.93 m²
U 15.4	SERVICE CORRIDOR	124.77 m²
U 15.5	SERVICE CORRIDOR	44.57 m²
U 20.3B	OTE FAN ROOM	42.40 m²
U 20.1B	TVS FAN & PANEL ROOM	291.57 m²
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ME 83.0	EVS CUTOUT	2.25 m²
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ME 12.0	TVS CUTOUT	9.46 m²
ME 22.1	RELIEF CUTOUT	15.00 m²
ME 23.1	RELIEF CUTOUT	15.00 m²
UT 10.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
EL 20.0	HT SHAFT	3.00 m²

ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
EL 11.0	ELE SHAFT	1.05 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
ME 40.0	FRESH AIR	7.00 m²
ME 30.0	EXHAUST	7.00 m²
ME 75.0	SVS CUTOUT	0.75 m²
ME 76.0	SVS CUTOUT	0.75 m²
ME 73.0	SVS CUTOUT	0.75 m²
ME 74.0	SVS CUTOUT	0.75 m²
ME 60.0	UPS CUTOUT	5.94 m²
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ME 20.1	RELIEF CUTOUT	15.60 m²
-	SMR	23.32 m²
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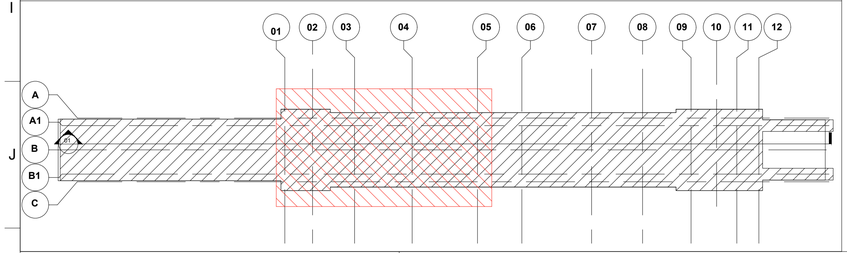
KEYPLAN



FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

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AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

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REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	12.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIP

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: PUNE METRO RAIL PROJECT
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD.

LOCATION: CIVIL COURT STATION\

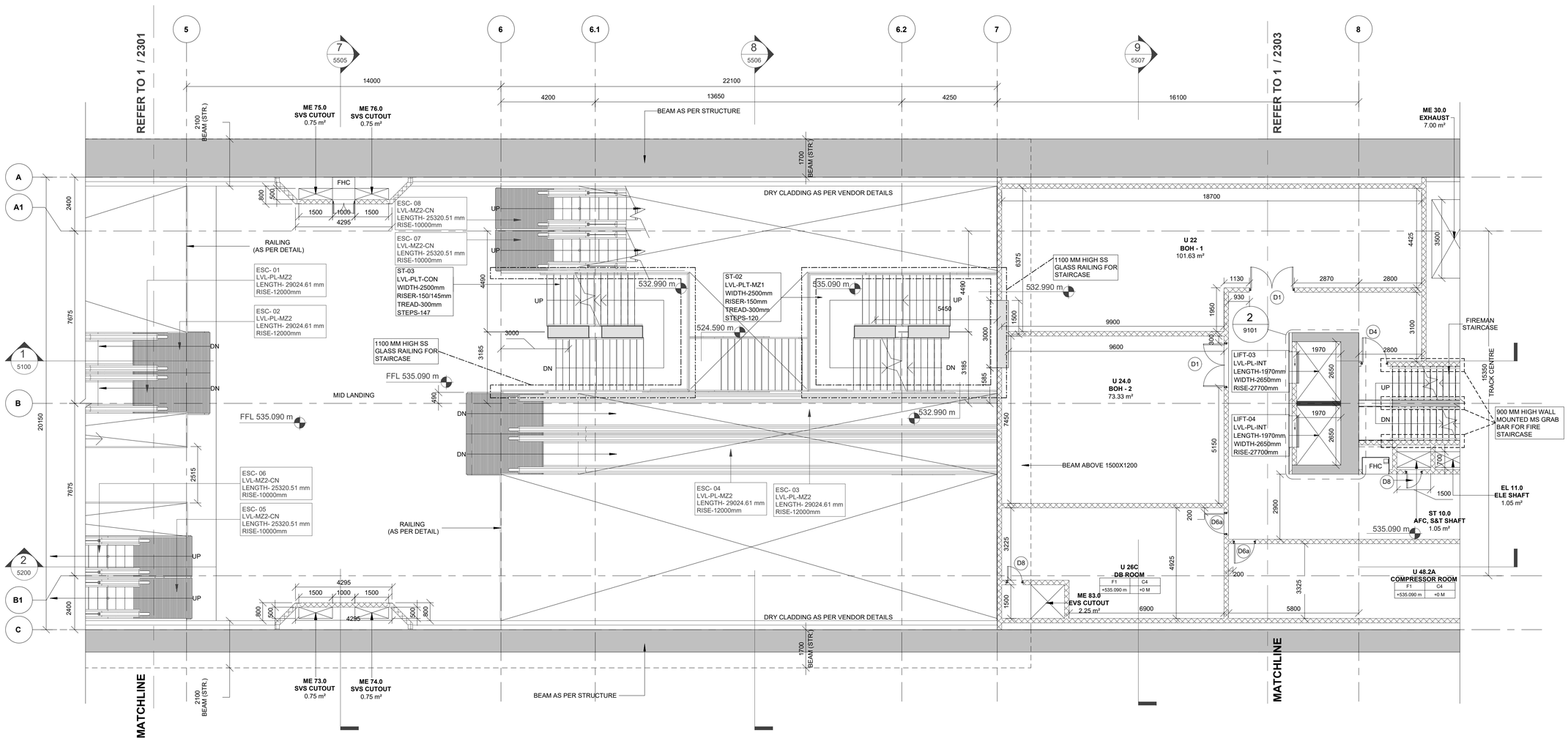
TITLE: MEZZANINE 2 LEVEL LAYOUT PLAN (1 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS:GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M2 - DRP - 2301

ARCHITECTURE

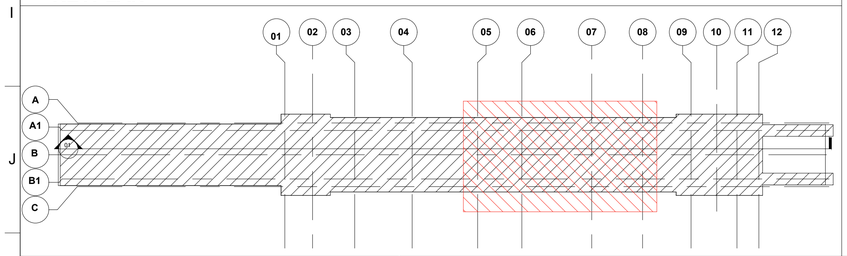
plot scale 50mm



1 MEZZANINE 2 LEVEL LAYOUT PLAN (2 OF 3)

2302 Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 2

Number	Name	Area
U 20.1A	TVS FAN & PANEL ROOM	217.07 m²
U 48.2A	COMPRESSOR ROOM	24.94 m²
U 26C	DB ROOM	43.66 m²
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ME 23.1	RELIEF CUTOUT	15.00 m²
UT 10.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
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ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
EL 11.0	ELE SHAFT	1.05 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
ME 40.0	FRESH AIR	7.00 m²
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FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

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B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.
IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

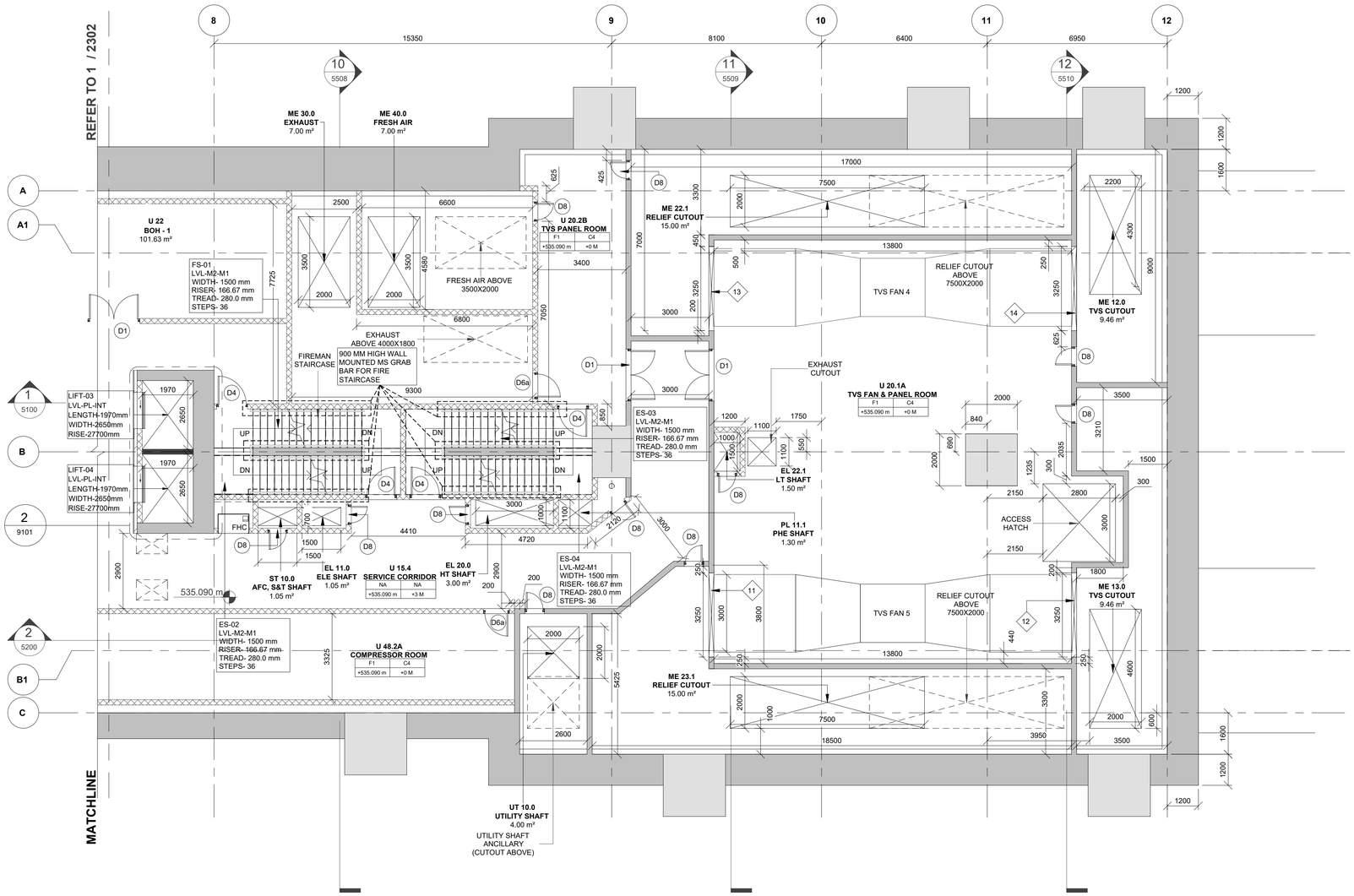
TITLE: MEZZANINE 2 LEVEL LAYOUT PLAN (2 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M2 - DRP - 2302

ARCHITECTURE

plot scale 50mm



1 | MEZZANINE 2 LEVEL LAYOUT PLAN (3 OF 3)
2303 | Scale: 1 : 100

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

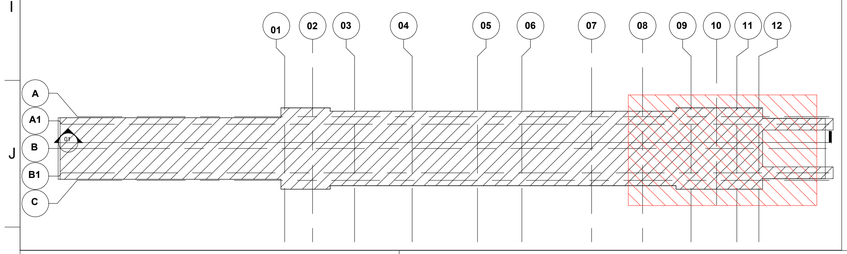
ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
U 20.1A	TVS FAN & PANEL ROOM	217.07 m²
U 48.2A	COMPRESSOR ROOM	24.94 m²
U 26C	DB ROOM	43.66 m²
U 24.0	BOH - 2	73.33 m²
U 22	BOH - 1	101.63 m²
U 20.2B	TVS PANEL ROOM	142.93 m²
U 15.4	SERVICE CORRIDOR	124.77 m²
U 15.5	SERVICE CORRIDOR	44.57 m²
U 20.3B	OTE FAN ROOM	42.40 m²
U 20.1B	TVS FAN & PANEL ROOM	291.57 m²
U 26D	DB ROOM	6.77 m²
ME 83.0	EVS CUTOUT	2.25 m²
ME 72.0	SVS CUTOUT	8.82 m²
ME 82.0	EVS CUTOUT	4.80 m²
ME 13.0	TVS CUTOUT	9.46 m²
ME 12.0	TVS CUTOUT	9.46 m²
ME 22.1	RELIEF CUTOUT	15.00 m²
ME 23.1	RELIEF CUTOUT	15.00 m²
UT 10.0	UTILITY SHAFT	4.00 m²
PL 11.1	PHE SHAFT	1.30 m²
EL 20.0	HT SHAFT	3.00 m²

ROOM SCHEDULE_MEZZANINE 2...

Number	Name	Area
EL 11.0	ELE SHAFT	1.05 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
ME 40.0	FRESH AIR	7.00 m²
ME 30.0	EXHAUST	7.00 m²
ME 75.0	SVS CUTOUT	0.75 m²
ME 76.0	SVS CUTOUT	0.75 m²
ME 73.0	SVS CUTOUT	0.75 m²
ME 74.0	SVS CUTOUT	0.75 m²
ME 60.0	UPS CUTOUT	5.94 m²
EL 12.0	ELE CUTOUT	3.10 m²
PL 12.0	PHE SHAFT	3.10 m²
ME 51.0	OTE CUTOUT	4.00 m²
ME 21.1	RELIEF CUTOUT	15.00 m²
ME 50.0	OTE CUTOUT	4.00 m²
ME 10.0	TVS CUTOUT	15.40 m²
ME 11.0	TVS CUTOUT	15.40 m²
EL 10.0	ELE SHAFT	1.28 m²
-	SPARE ROOM	8.68 m²
EL 22.1	LT SHAFT	1.50 m²
ME 20.1	RELIEF CUTOUT	15.60 m²
-	SMR	23.32 m²
-	SPARE ROOM	32.25 m²

KEYPLAN



NOTES:
1. THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
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6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY, AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	12.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:	SIGN:	
DATE:	DATE:	DATE:	DATE:	
NAME:	NAME:	NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

FLOOR FINISH	CEILING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

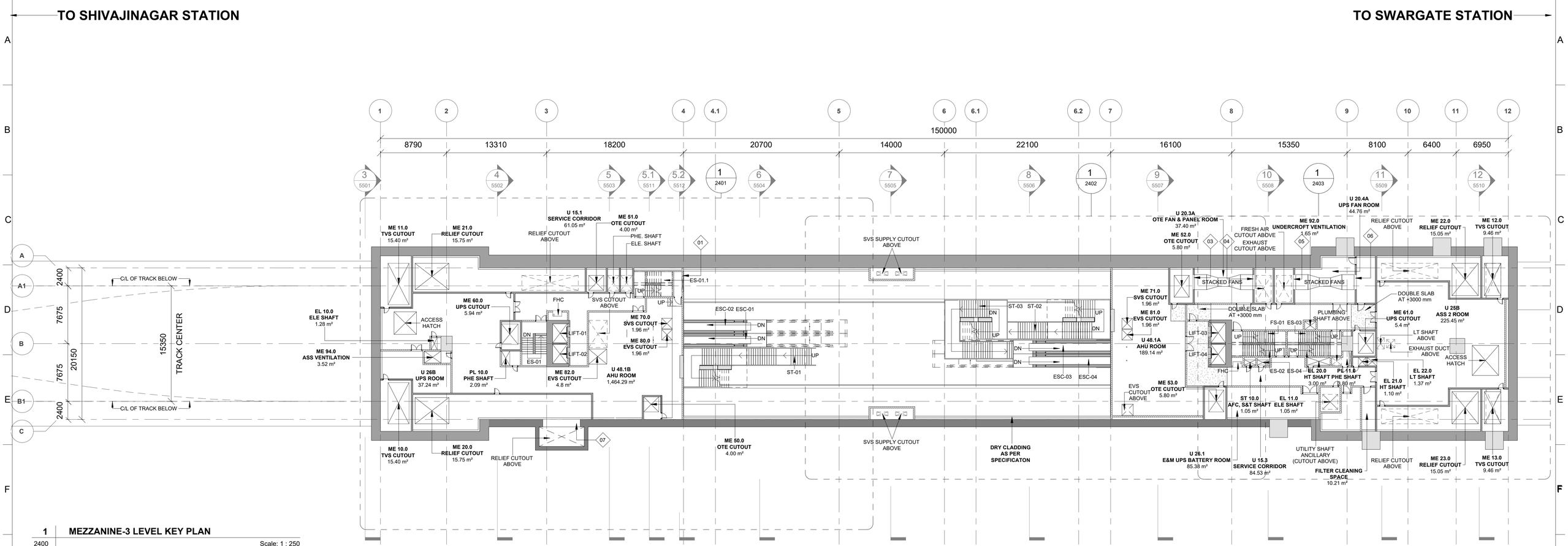
TITLE: MEZZANINE 2 LEVEL LAYOUT PLAN (3 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M2 - DRP - 2303

ARCHITECTURE

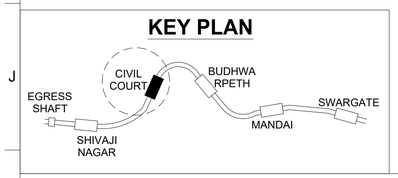
plot scale 50mm



1 **MEZZANINE-3 LEVEL KEY PLAN**

2400 Scale: 1 : 250

KEY PLAN



ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
U 25B	ASS 2 ROOM	225.45 m²
U 26.1	E&M UPS BATTERY ROOM	85.38 m²
U 48.1A	AHU ROOM	189.14 m²
U 20.3A	OTE FAN & PANEL ROOM	37.40 m²
U 20.4A	UPS FAN ROOM	44.76 m²
U 15.3	SERVICE CORRIDOR	84.53 m²
U 48.1B	AHU ROOM	1,464.29 m²
U 26B	DB ROOM	37.24 m²
U 15.1	SERVICE CORRIDOR	61.05 m²
ME 61.0	UPS CUTOUT	5.92 m²
ME 60.0	UPS CUTOUT	5.94 m²
ME 11.0	TVS CUTOUT	15.40 m²
ME 21.0	RELIEF CUTOUT	15.75 m²
ME 10.0	TVS CUTOUT	15.40 m²
ME 20.0	RELIEF CUTOUT	15.75 m²
ME 51.0	OTE CUTOUT	4.00 m²
ME 70.0	SVS CUTOUT	1.96 m²
ME 80.0	EVS CUTOUT	1.96 m²
ME 50.0	OTE CUTOUT	4.00 m²

ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
ME 52.0	OTE CUTOUT	5.80 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
EL 11.0	ELE SHAFT	1.05 m²
EL 20.0	HT SHAFT	3.00 m²
ME 53.0	OTE CUTOUT	5.80 m²
EL 21.0	HT SHAFT	1.10 m²
ME 13.0	TVS CUTOUT	9.46 m²
ME 23.0	RELIEF CUTOUT	15.05 m²
ME 12.0	TVS CUTOUT	9.46 m²
ME 22.0	RELIEF CUTOUT	15.05 m²
PL 11.0	PHE SHAFT	3.80 m²
ME 94.0	ASS VENTILATION	3.52 m²
EL 10.0	ELE SHAFT	1.28 m²
PL 10.0	PHE SHAFT	2.09 m²
-	SPARE ROOM	Redundant Room
ME 71.0	SVS CUTOUT	1.96 m²
ME 81.0	EVS CUTOUT	1.96 m²
EL 22.0	LT SHAFT	1.37 m²
ME 82.0	EVS CUTOUT	4.40 m²
ME 92.0	UNDERCROFT VENTILATION	1.65 m²

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	**Structural Expert**	**PHE Expert**	**Electrical Expert**	**Mechanical Expert**

AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 13.11.2021	DATE: 13.11.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

REV NO	DATE	DESCRIPTION	SIGN
B05	13/11/2021	GC Comments Incorporated	
B04	19/06/2021	TVS Comments Incorporated	
B03	09/11/2021	GC Comments Incorporated	
B02	15/09/2020	GC Comments Incorporated	
B01	28/02/2020	GC Comments Incorporated	

AECOM
AECOM India PVt. Ltd.
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **CIVIL COURT STATION**

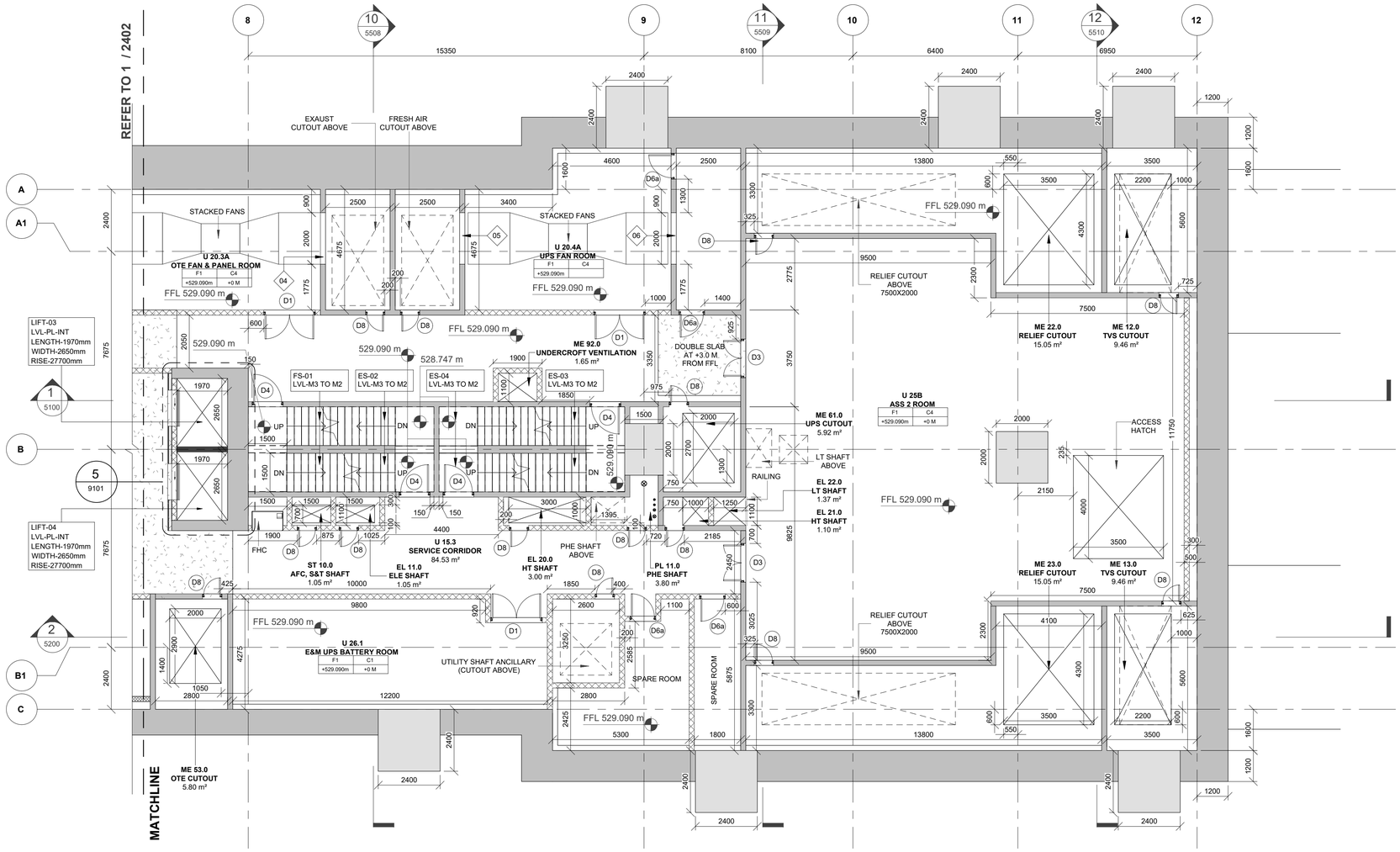
TITLE: **MEZZANINE -3 LEVEL KEY PLAN**

SCALE: 1:250 | DATE: 13.11.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B05

DRG NO: P4D02 - ACM - AR - PRM - CVC - M3 - DRP - 2400

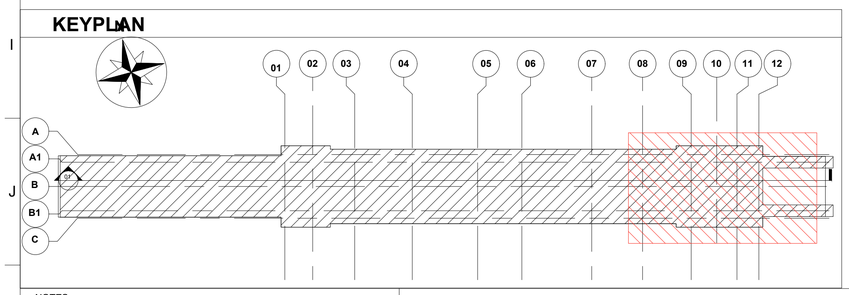
ARCHITECTURE

plot scale 50mm



1 | **MEZZANINE 3 LEVEL LAYOUT PLAN (3 OF 3)**
2403 | Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
U 25B	ASS 2 ROOM	225.45 m²
U 26.1	E&M UPS BATTERY ROOM	85.38 m²
U 48.1A	AHU ROOM	189.14 m²
U 20.3A	OTE FAN & PANEL ROOM	37.40 m²
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ME 61.0	UPS CUTOUT	5.92 m²
ME 60.0	UPS CUTOUT	5.94 m²
ME 11.0	TVS CUTOUT	15.40 m²
ME 21.0	RELIEF CUTOUT	15.75 m²
ME 10.0	TVS CUTOUT	15.40 m²
ME 20.0	RELIEF CUTOUT	15.75 m²
ME 51.0	OTE CUTOUT	4.00 m²
ME 70.0	SVS CUTOUT	1.96 m²
ME 80.0	EVS CUTOUT	1.96 m²
ME 50.0	OTE CUTOUT	4.00 m²

ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
ME 52.0	OTE CUTOUT	5.80 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
EL 11.0	ELE SHAFT	1.05 m²
EL 20.0	HT SHAFT	3.00 m²
ME 53.0	OTE CUTOUT	5.80 m²
EL 21.0	HT SHAFT	1.10 m²
ME 13.0	TVS CUTOUT	9.46 m²
ME 23.0	RELIEF CUTOUT	15.05 m²
ME 12.0	TVS CUTOUT	9.46 m²
ME 22.0	RELIEF CUTOUT	15.05 m²
PL 11.0	PHE SHAFT	3.80 m²
ME 94.0	ASS VENTILATION	3.52 m²
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-	SPARE ROOM	Redundant Room
ME 71.0	SVS CUTOUT	1.96 m²
ME 81.0	EVS CUTOUT	1.96 m²
EL 22.0	LT SHAFT	1.37 m²
ME 82.0	EVS CUTOUT	4.40 m²
ME 92.0	UNDERCROFT VENTILATION	1.65 m²

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

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Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

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REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	26.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME: N/A	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

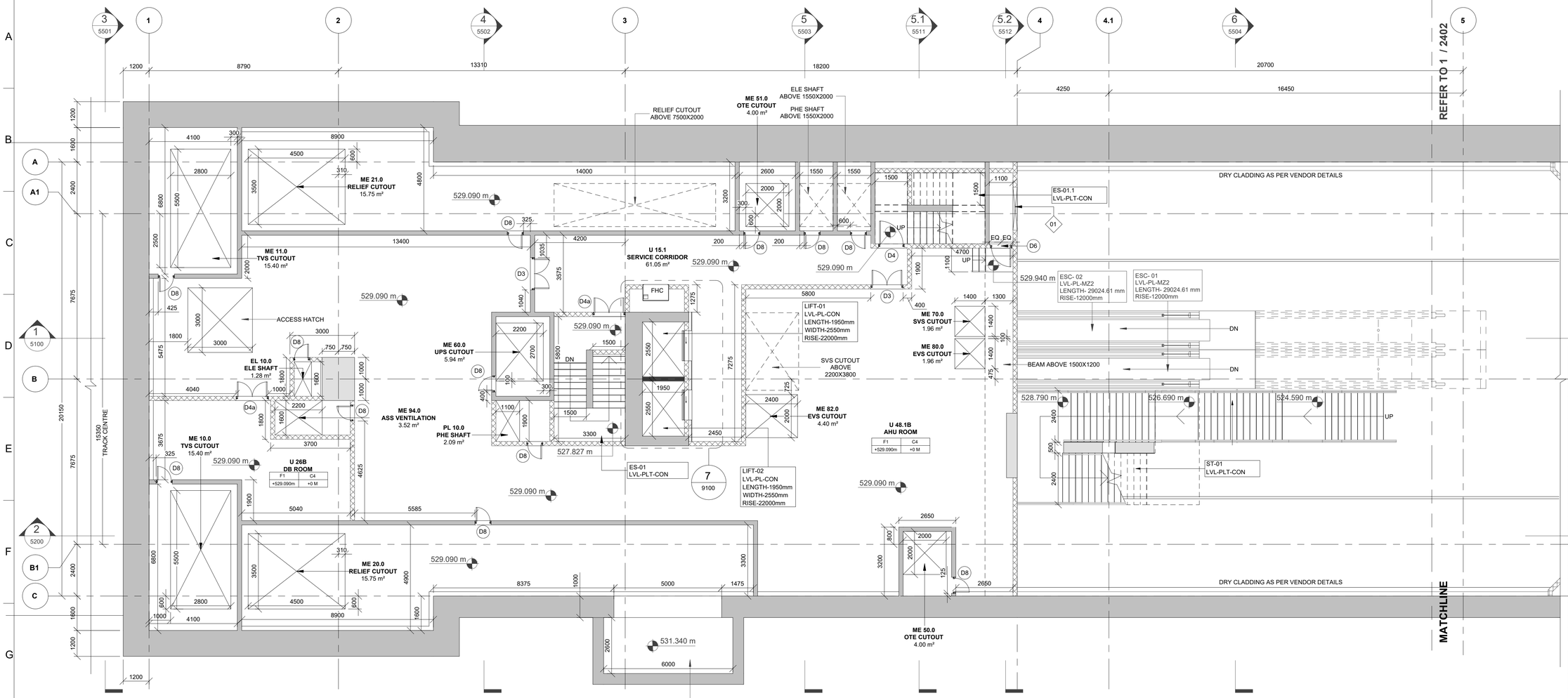
TITLE: MEZZANINE 3 LEVEL LAYOUT PLAN (3 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M3 - DRP - 2403

ARCHITECTURE

plot scale 50mm



1 MEZZANINE 3 LEVEL LAYOUT PLAN (1 OF 3)

2401 Scale: 1 : 100

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

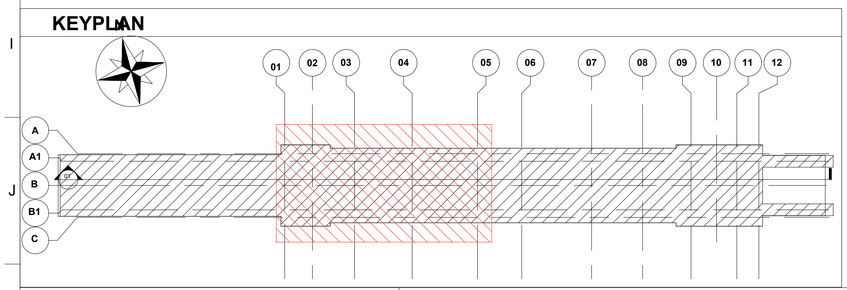
ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
U 25B	ASS 2 ROOM	225.45 m²
U 26.1	E&M UPS BATTERY ROOM	85.38 m²
U 48.1A	AHU ROOM	189.14 m²
U 20.3A	OTE FAN & PANEL ROOM	37.40 m²
U 20.4A	UPS FAN ROOM	44.76 m²
U 15.3	SERVICE CORRIDOR	84.53 m²
U 48.1B	AHU ROOM	1,464.29 m²
U 26B	DB ROOM	37.24 m²
U 15.1	SERVICE CORRIDOR	61.05 m²
ME 61.0	UPS CUTOUT	5.92 m²
ME 60.0	UPS CUTOUT	5.94 m²
ME 11.0	TVS CUTOUT	15.40 m²
ME 21.0	RELIEF CUTOUT	15.75 m²
ME 10.0	TVS CUTOUT	15.40 m²
ME 20.0	RELIEF CUTOUT	15.75 m²
ME 51.0	OTE CUTOUT	4.00 m²
ME 70.0	SVS CUTOUT	1.96 m²
ME 80.0	EVS CUTOUT	1.96 m²
ME 50.0	OTE CUTOUT	4.00 m²

ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
ME 52.0	OTE CUTOUT	5.80 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
EL 11.0	ELE SHAFT	1.05 m²
EL 20.0	HT SHAFT	3.00 m²
ME 53.0	OTE CUTOUT	5.80 m²
EL 21.0	HT SHAFT	1.10 m²
ME 13.0	TVS CUTOUT	9.46 m²
ME 23.0	RELIEF CUTOUT	15.05 m²
ME 12.0	TVS CUTOUT	9.46 m²
ME 22.0	RELIEF CUTOUT	15.05 m²
PL 11.0	PHE SHAFT	3.80 m²
ME 94.0	ASS VENTILATION	3.52 m²
EL 10.0	ELE SHAFT	1.28 m²
PL 10.0	PHE SHAFT	2.09 m²
-	SPARE ROOM	Redundant Room
ME 71.0	SVS CUTOUT	1.96 m²
ME 81.0	EVS CUTOUT	1.96 m²
EL 22.0	LT SHAFT	1.37 m²
ME 82.0	EVS CUTOUT	4.40 m²
ME 92.0	UNDERCROFT VENTILATION	1.65 m²

KEYPLAN



FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:

1. THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL, AND TRAFFIC MANAGEMENT DRAWING.
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6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY, AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	26.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

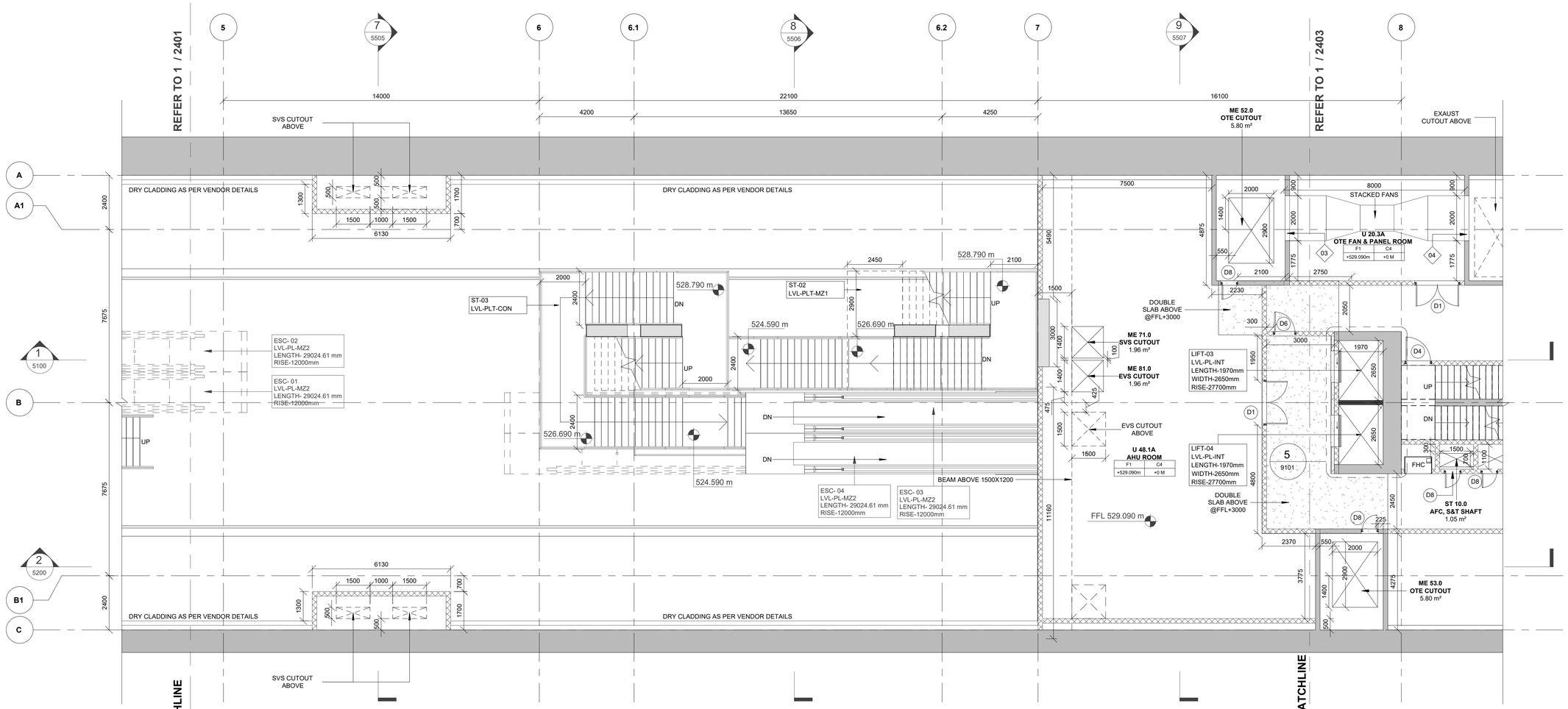
TITLE: MEZZANINE 3 LEVEL LAYOUT PLAN (1 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - M3 - DRP - 2401

ARCHITECTURE

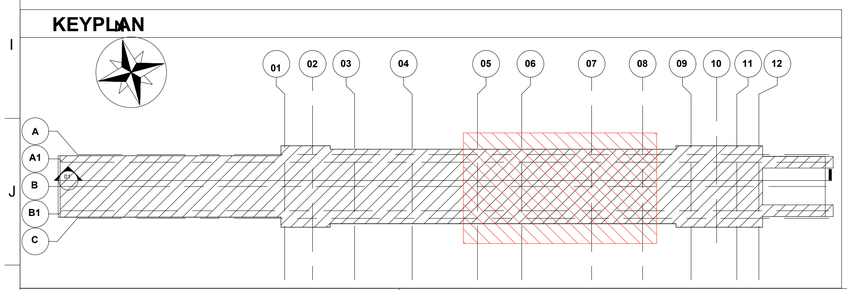
plot scale 50mm



1 | MEZZANINE 3 LEVEL LAYOUT PLAN (2 OF 3)

2402 | Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
U 25B	ASS 2 ROOM	225.45 m²
U 26.1	E&M UPS BATTERY ROOM	85.38 m²
U 48.1A	AHU ROOM	189.14 m²
U 20.3A	OTE FAN & PANEL ROOM	37.40 m²
U 20.4A	UPS FAN ROOM	44.76 m²
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ME 21.0	RELIEF CUTOUT	15.75 m²
ME 10.0	TVS CUTOUT	15.40 m²
ME 20.0	RELIEF CUTOUT	15.75 m²
ME 51.0	OTE CUTOUT	4.00 m²
ME 70.0	SVS CUTOUT	1.96 m²
ME 80.0	EVS CUTOUT	1.96 m²
ME 50.0	OTE CUTOUT	4.00 m²

ROOM SCHEDULE_MEZZANINE 3...

Number	Name	Area
ME 52.0	OTE CUTOUT	5.80 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
EL 11.0	ELE SHAFT	1.05 m²
EL 20.0	HT SHAFT	3.00 m²
ME 53.0	OTE CUTOUT	5.80 m²
EL 21.0	HT SHAFT	1.10 m²
ME 13.0	TVS CUTOUT	9.46 m²
ME 23.0	RELIEF CUTOUT	15.05 m²
ME 12.0	TVS CUTOUT	9.46 m²
ME 22.0	RELIEF CUTOUT	15.05 m²
PL 11.0	PHE SHAFT	3.80 m²
ME 94.0	ASS VENTILATION	3.52 m²
EL 10.0	ELE SHAFT	1.28 m²
PL 10.0	PHE SHAFT	2.09 m²
-	SPARE ROOM	Redundant Room
ME 71.0	SVS CUTOUT	1.96 m²
ME 81.0	EVS CUTOUT	1.96 m²
EL 22.0	LT SHAFT	1.37 m²
ME 82.0	EVS CUTOUT	4.40 m²
ME 92.0	UNDERCROFT VENTILATION	1.65 m²

FLOOR FINISH	CEILING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

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AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

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REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	26.AUG.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV..... " APPROVED ON DATE .....

DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

TITLE: MEZZANINE 3 LEVEL LAYOUT PLAN (2 OF 3)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

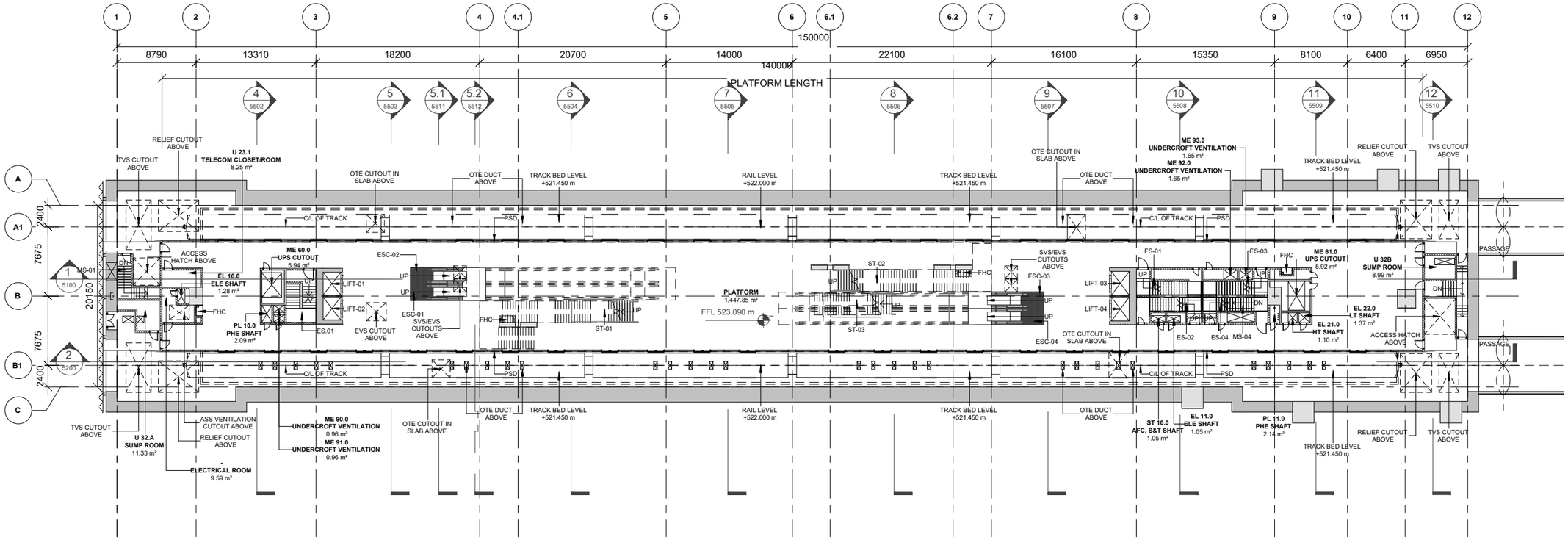
DRG NO: P4D02 - ACM - AR - PRM - CVC - M3 - DRP - 2402

ARCHITECTURE

plot scale 50mm

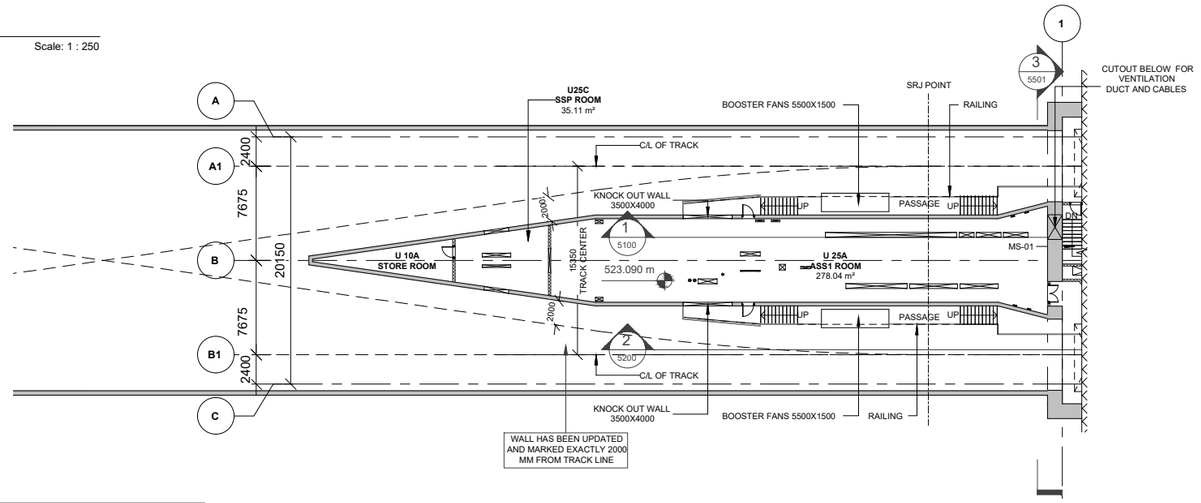
TO SHIVAJINAGAR STATION

TO SWARGATE STATION



1 PLATFORM LEVEL KEY PLAN

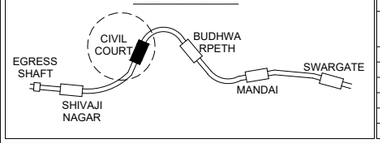
3000 Scale: 1 : 250



ROOM SCHEDULE_PLATFORM LEVEL

Number	Name	Area
U 32B	SUMP ROOM	8.99 m²
-	PLATFORM	1,488.89 m²
U 26A	DB ROOM	4.18 m²
U 23.1	TELECOM CLOSET/ROOM	8.25 m²
-	ELECTRICAL ROOM	9.59 m²
U 32.A	SUMP ROOM	11.33 m²
U 25A	ASS1 ROOM	278.91 m²
U 10A	STORE ROOM	24.21 m²
ME 93.0	UNDERCROFT VENTILATION	1.65 m²
ME 92.0	UNDERCROFT VENTILATION	1.65 m²
EL 20.0	HT SHAFT	3.00 m²
EL 11.0	ELE SHAFT	1.05 m²
ST 10.0	S&T SHAFT	1.05 m²
ME 91.0	UNDERCROFT VENTILATION	0.96 m²
ME 90.0	UNDERCROFT VENTILATION	0.96 m²
ME 60.0	UPS CUTOUT	5.94 m²
ME 61.0	UPS CUTOUT	5.92 m²
EL 21.0	HT SHAFT	1.10 m²
PL 10.0	PHE SHAFT	2.09 m²
PL 11.0	PHE SHAFT	2.14 m²
EL 10.0	ELE SHAFT	1.28 m²
U25C	SSP ROOM	35.11 m²
EL 22.0	LT SHAFT	1.43 m²

KEY PLAN



NOTE:
opening in the schedule are not final may be changed as per services requirement.

SCHEDULE OF OPENING - PLATFORM LVL

NOS	EFF. HEIGHT OF OPENING	EFF. WIDTH OF OPENING	SILL LVL	LINTEL LVL	REMARK
01	2400	2000	+00.00	+2400	DOOR OPENING
02	3500	4000	+00.00	+3500	KNOCKOUT PANEL
03	3500	4000	+00.00	+3500	KNOCKOUT PANEL
04	3250	2000	+00.00	+3250	KNOCKOUT PANEL
05	3250	2000	+00.00	+3250	KNOCKOUT PANEL
06	2400	2000	+00.00	+2400	KNOCKOUT PANEL

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
B05	13/11/2021	GC Comments Incorporated & cut out update as SEM	
B04	26/06/2021	Structural Comments Incorporated	
B03	09/11/2021	GC Comments Incorporated	
B02	15/09/2020	GC Comments Incorporated	
B01	28/02/2020	GC Comments Incorporated	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 13.11.2021	DATE: 13.11.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

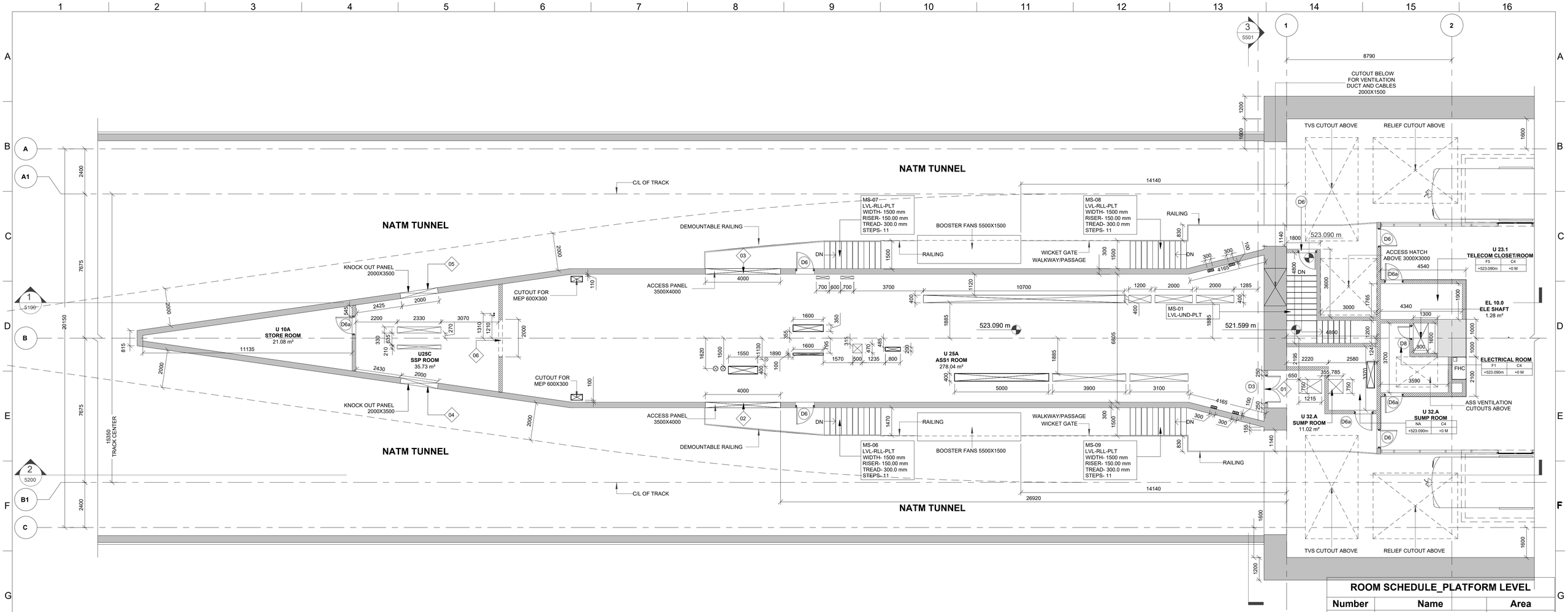
TITLE: PLATFORM LEVEL KEY PLAN

SCALE: 1:250 | DATE: 16.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B05

DRG NO: P4D02 - ACM - AR - PRM - CVC - PT - DRP - 3000

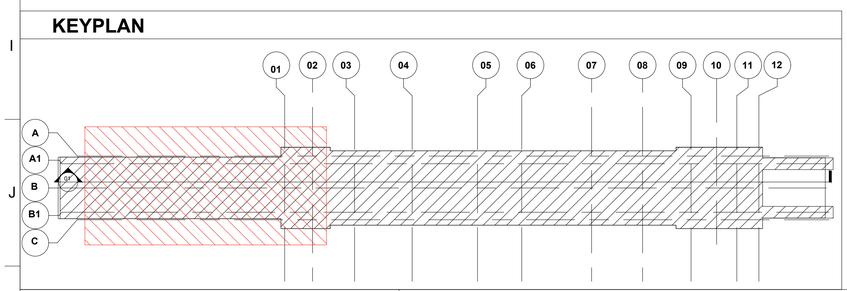
ARCHITECTURE

plot scale 50mm



1 | PLATFORM LEVEL LAYOUT PLAN (1 OF 4)
3001 | Scale: 1 : 100

KEYPLAN



ROOM SCHEDULE_PLATFORM LEVEL

Number	Name	Area
U 32B	SUMP ROOM	8.99 m²
-	PLATFORM	1,438.21 m²
U 26A	DB ROOM	4.18 m²
U 23.1	TELECOM CLOSET/ROOM	8.25 m²
-	ELECTRICAL ROOM	9.59 m²
U 32.A	SUMP ROOM	11.02 m²
U 25A	ASS1 ROOM	278.04 m²
U 10A	STORE ROOM	21.08 m²
ME 93.0	UNDERCROFT VENTILATION	1.65 m²
ME 92.0	UNDERCROFT VENTILATION	1.65 m²
EL 20.0	HT SHAFT	3.00 m²
EL 11.0	ELE SHAFT	1.05 m²
ST 10.0	AFC, S&T SHAFT	1.05 m²
ME 91.0	UNDERCROFT VENTILATION	0.96 m²
ME 90.0	UNDERCROFT VENTILATION	0.96 m²
ME 60.0	UPS CUTOUT	5.94 m²
ME 61.0	UPS CUTOUT	5.92 m²
EL 21.0	HT SHAFT	1.10 m²
PL 10.0	PHE SHAFT	2.09 m²
PL 11.0	PHE SHAFT	2.14 m²
EL 10.0	ELE SHAFT	1.28 m²
U25C	SSP ROOM	35.73 m²
EL 22.0	LT SHAFT	1.37 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

AECOM-SYSTRA-CEG

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Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B04	20.12.2021	AS PER GC COMMENTS CSD DRAWINGS	
B03	26.AUG.2021	AS PER GC COMMENTS	
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B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVT. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

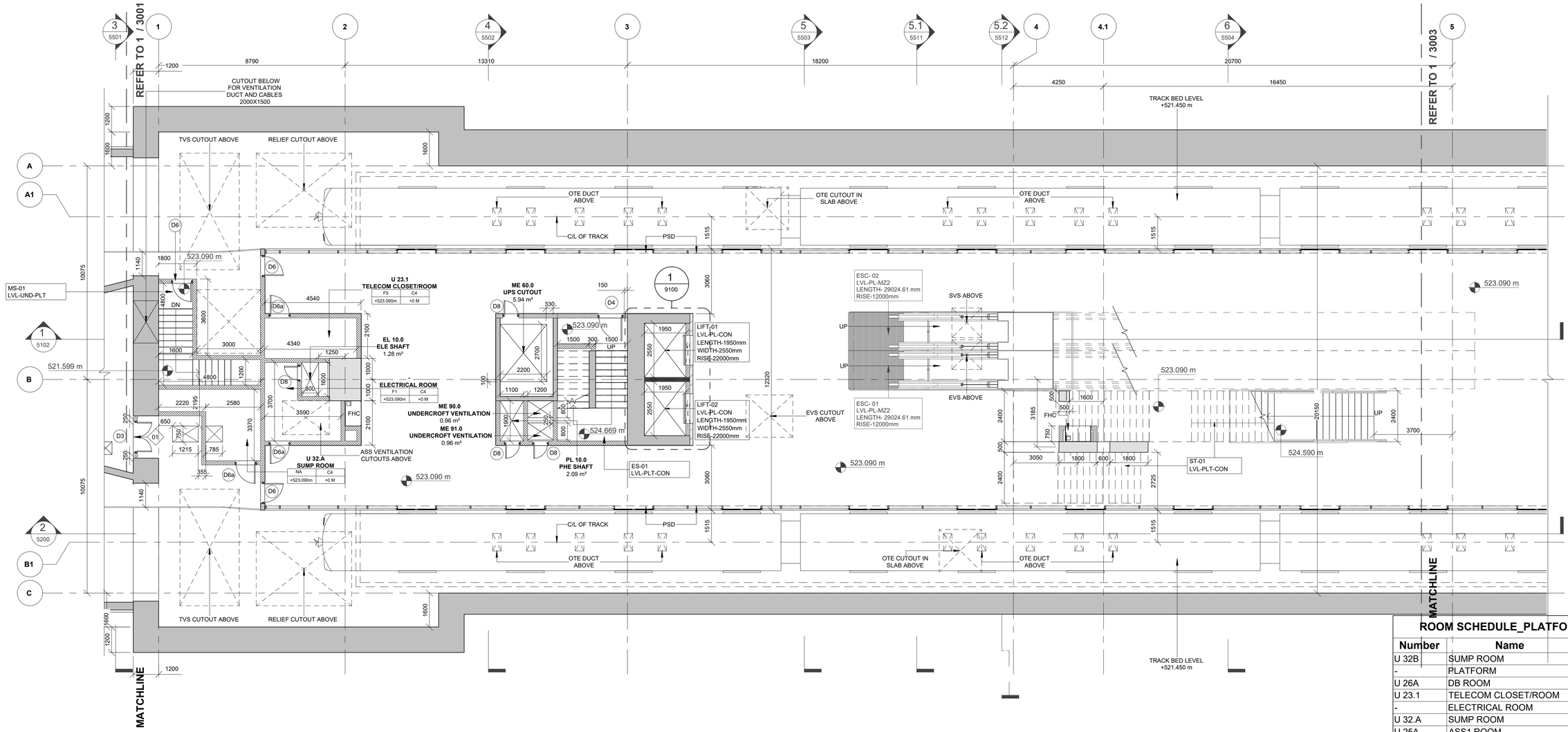
TITLE: PLATFORM LEVEL LAYOUT PLAN (1 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - PT - DRP - 3001

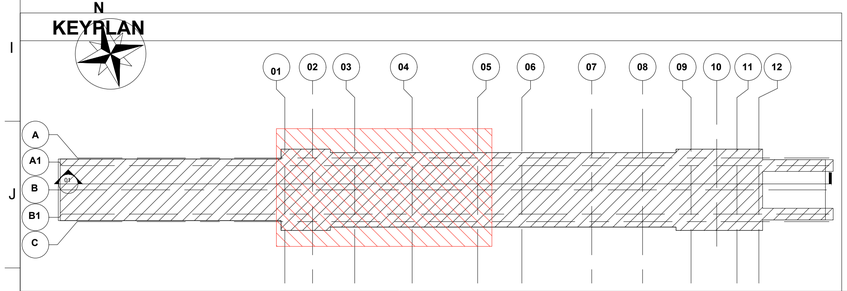
ARCHITECTURE

plot scale 50mm



1 PLATFORM LEVEL LAYOUT PLAN (2 OF 4)

3002 | Scale: 1 : 100



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- DOUBLE SLAB
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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

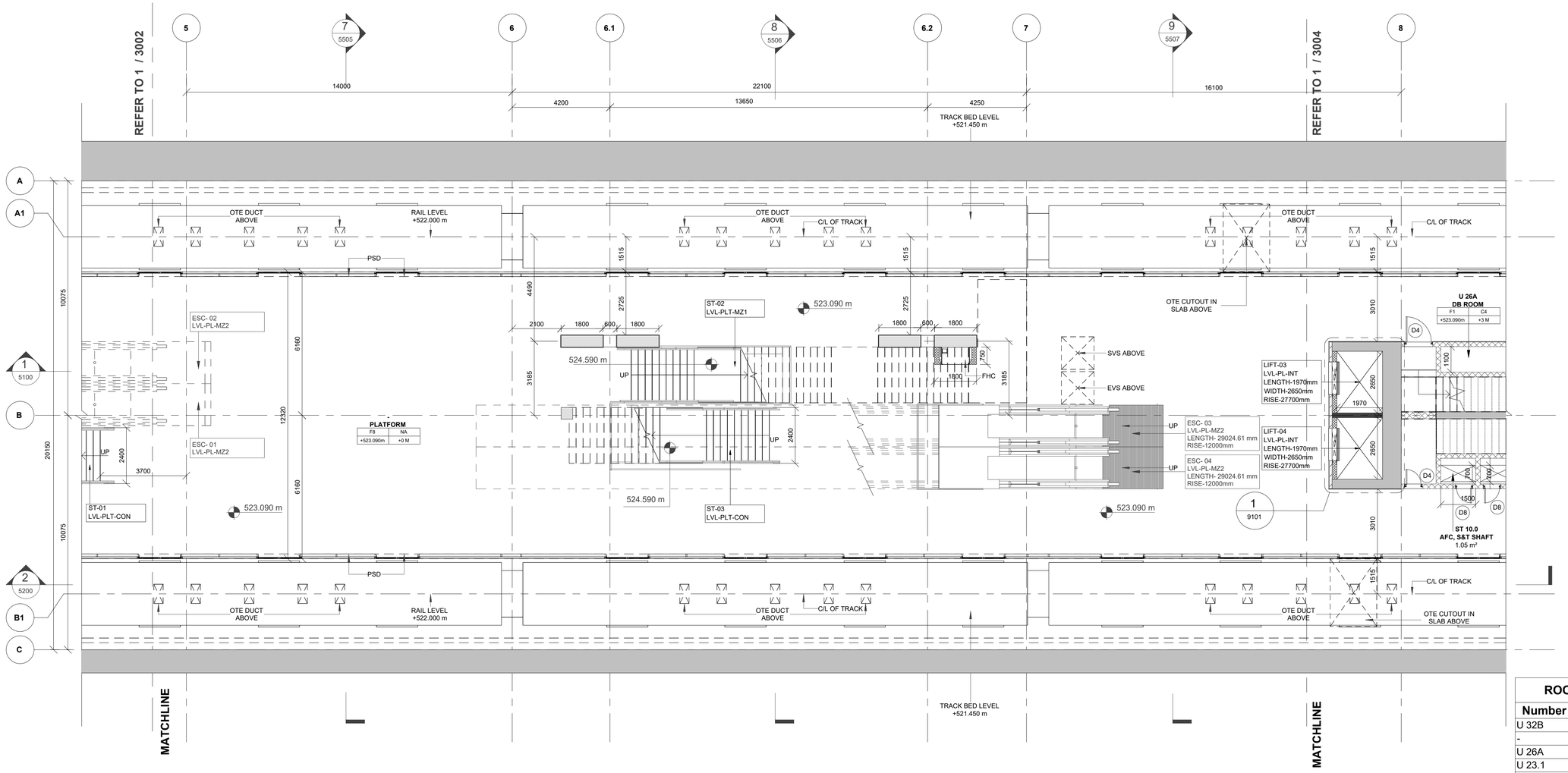
TITLE: PLATFORM LEVEL LAYOUT PLAN (2 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - PT - DRP - 3002

ARCHITECTURE

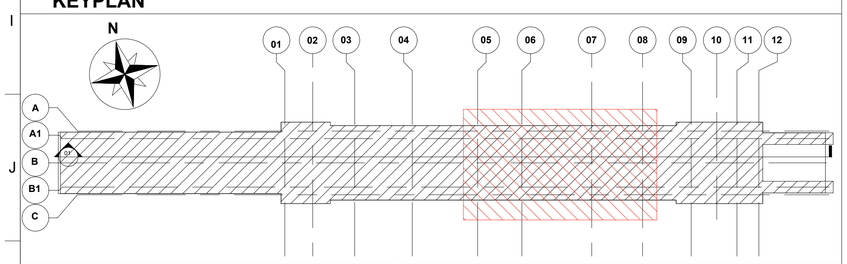
plot scale 50mm



1 PLATFORM LEVEL LAYOUT PLAN (3 OF 4)

3003 Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
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- PLANTER FILLED

ROOM SCHEDULE_PLATFORM LEVEL

Number	Name	Area
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-	PLATFORM	1,438.21 m²
U 26A	DB ROOM	4.18 m²
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U25C	SSP ROOM	35.73 m²
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FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
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SIGN:		SIGN:	
DATE:		DATE:	
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REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

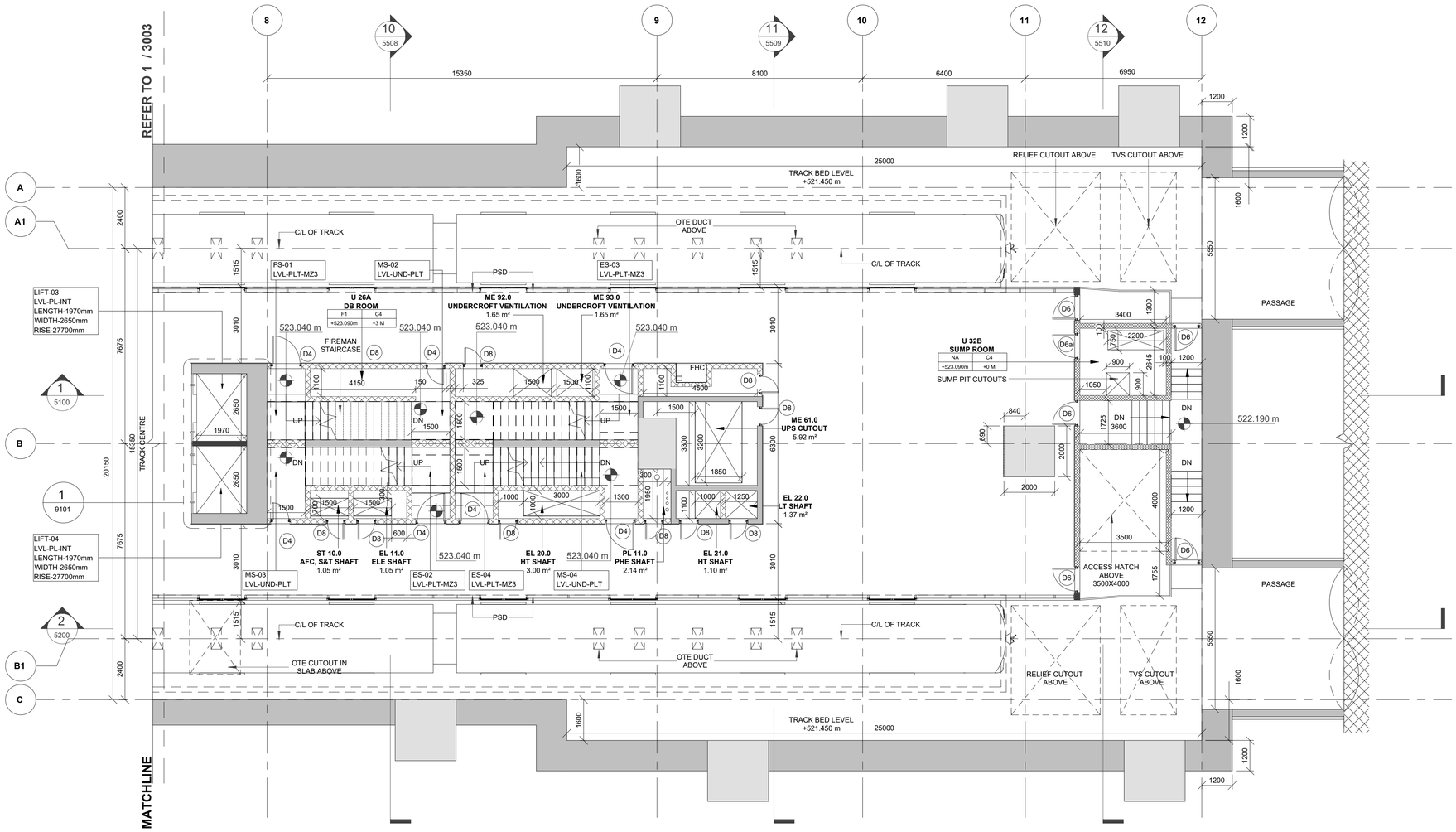
TITLE: PLATFORM LEVEL LAYOUT PLAN (3 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - PT - DRP - 3003

ARCHITECTURE

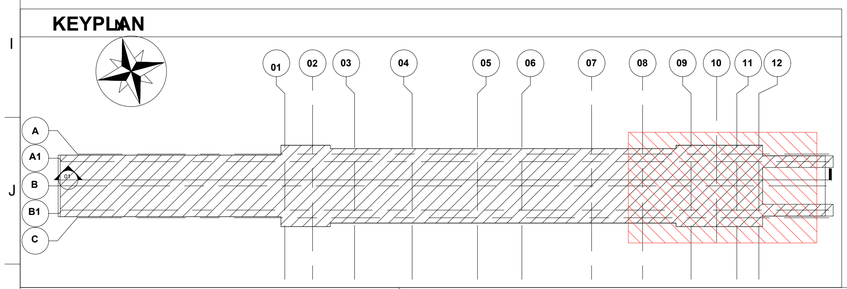
plot scale 50mm



1 | PLATFORM LEVEL LAYOUT PLAN (4 OF 4)

3004 | Scale: 1 : 100

KEYPLAN



LEGEND

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THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR. IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT STATION

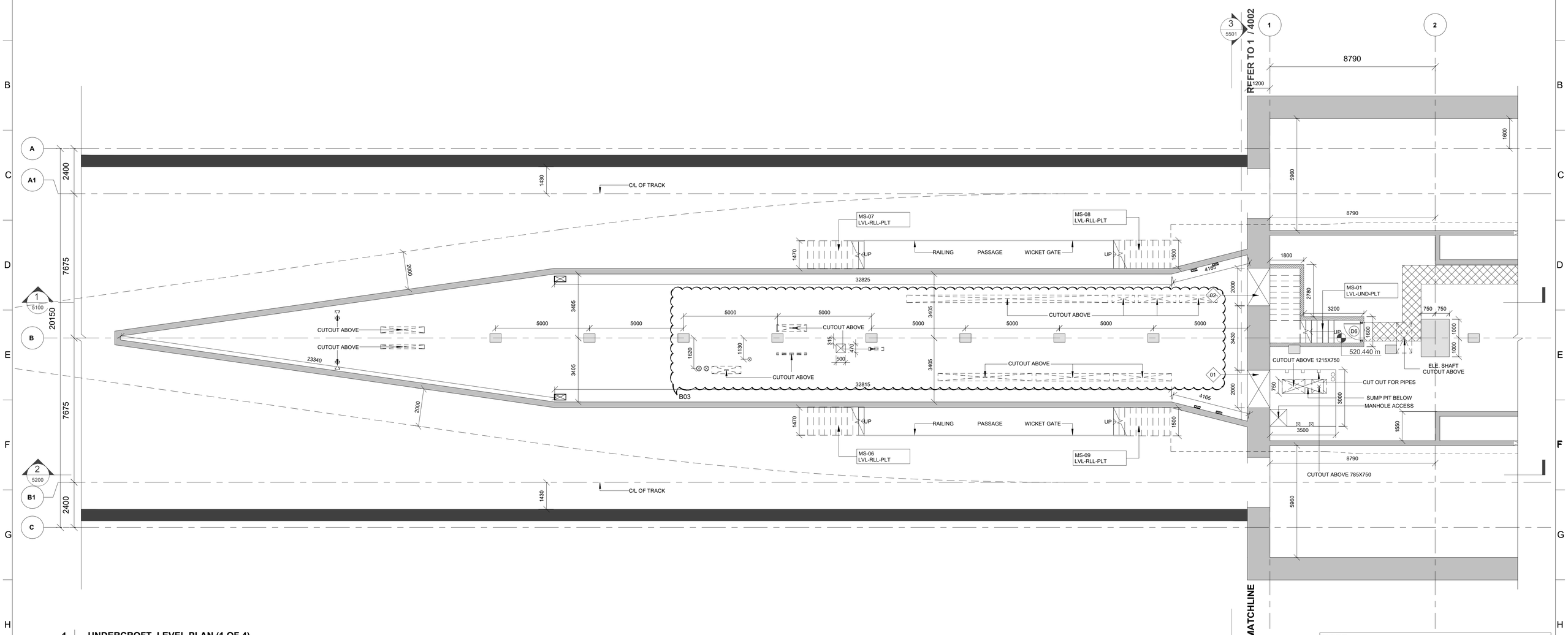
TITLE: PLATFORM LEVEL LAYOUT PLAN (4 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - CVC - PT - DRP - 3004

ARCHITECTURE

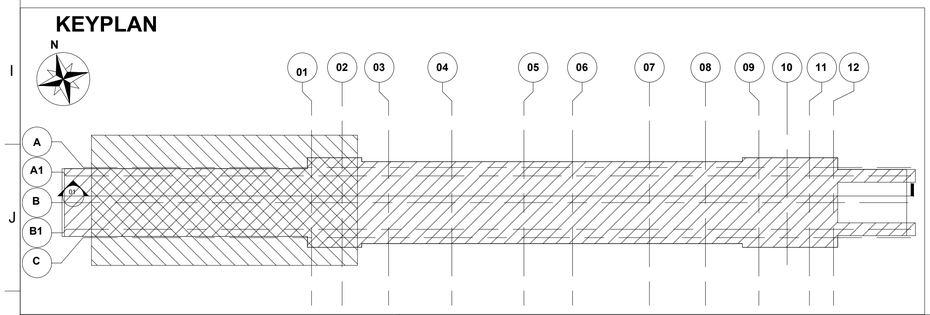
plot scale 50mm



1 UNDERCROFT_LEVEL PLAN (1 OF 4)

4001 Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

FLOOR FINISH	CEILING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

NOTE:
opening in the scledule are not final may be changed as per services requirement.

SCHEDULE OF OPENING - UNDERCROFT LVL

NOS	EFF. HEIGHT OF OPENING	EFF. WIDTH OF OPENING	SILL LVL	LINTEL LVL	REMARK
01	2000	1500	+00.00	+1500	MEP RELATED
02	2000	1500	+00.00	+1500	MEP RELATED
03	2000	3000	+00.00	+2400	MEP RELATED
04	2000	3000	+00.00	+2400	MEP RELATED

REVISION SCHEDULE

Current Revision	Current Revision Date	Current Revision Description
B03.1	13/10/2021	PLATFORM LVL. CUTOUT UPDATED AS PER SEM. B03

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS:

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:
1. THIS DRAWING MUST BE READ CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELECTRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY. ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY, AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	18.OCT.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
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Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT				REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:	SIGN:	SIGN:		
DATE:	DATE:	DATE:	DATE:		
NAME:	NAME:	NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY	APPROVED BY

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **CIVIL COURT UNDER GROUND STATION**

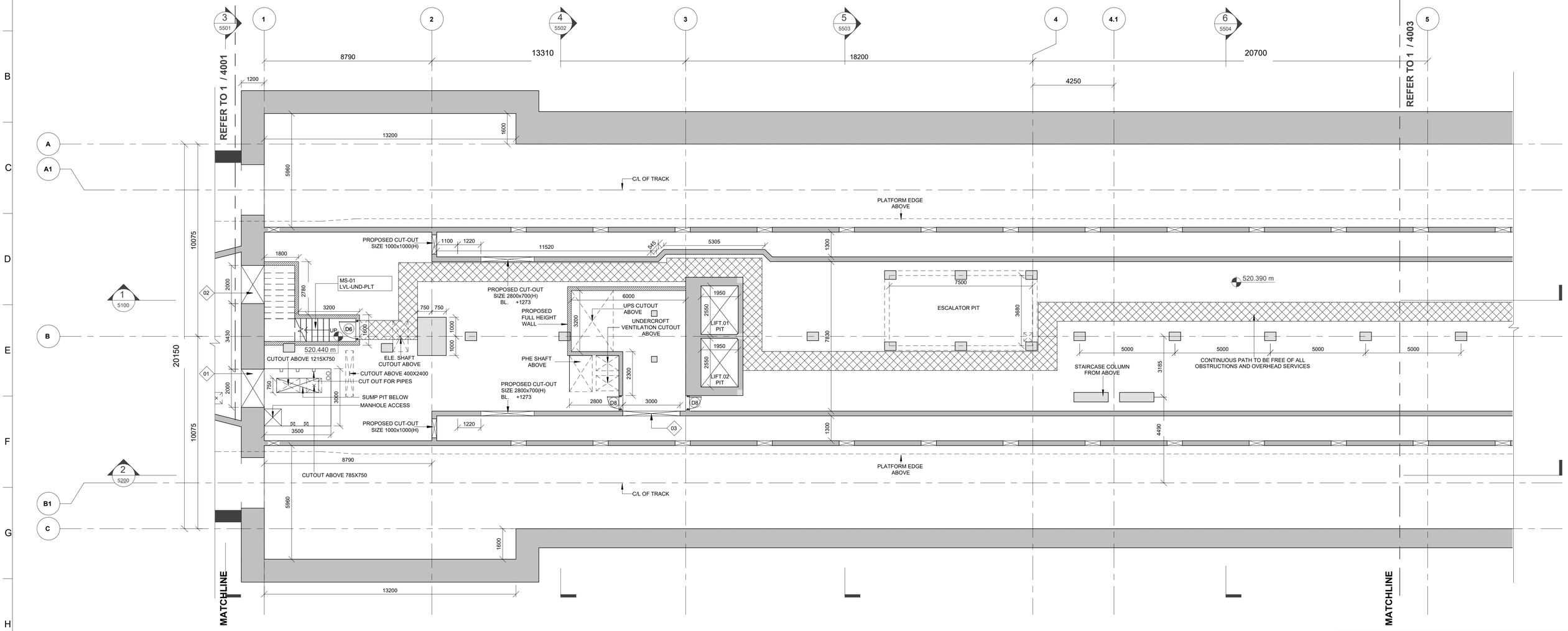
TITLE: **UNDERCROFT_LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - CVC - UL - DRP - 4001

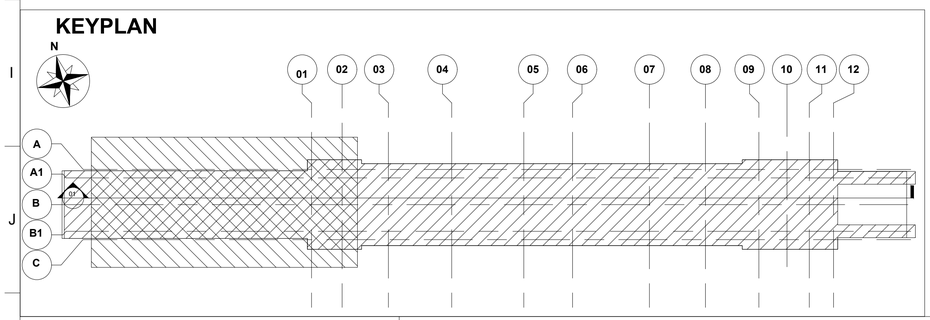
ARCHITECTURE

plot scale 50mm



1 | UNDERCROFT LEVEL LAYOUT PLAN (2 OF 4)
4002 | Scale: 1 : 100

KEYPLAN



FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

NOTE:
opening in the schedule are not final may be changed as per services requirement.

SCHEDULE OF OPENING - UNDERCROFT LVL

NOS	EFF. HEIGHT OF OPENING	EFF. WIDTH OF OPENING	SILL LVL	LINTEL LVL	REMARK
01	2000	1500	+00.00	+1500	MEP RELATED
02	2000	1500	+00.00	+1500	MEP RELATED
03	2000	3000	+00.00	+2400	MEP RELATED
04	2000	3000	+00.00	+2400	MEP RELATED

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

REVISION SCHEDULE

Current Revision	Current Revision Date	Current Revision Description
B03.1	13/10/2021	PLATFORM LVL. CUTOUT UPDATED AS PER SEM. B03

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Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
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13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	18.OCT.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
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PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

NIP

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT UNDER GROUND STATION

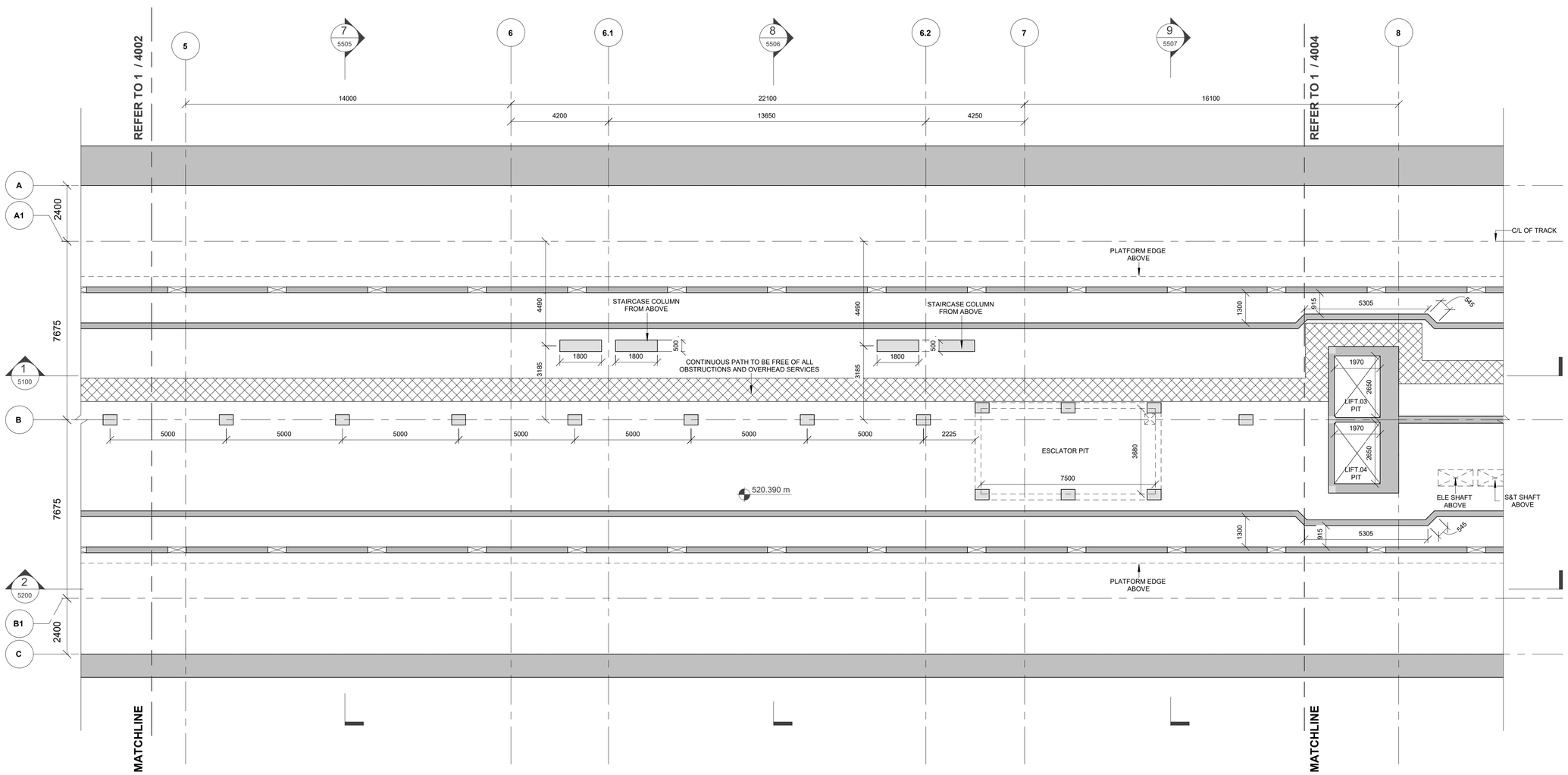
TITLE: UNDERCROFT LEVEL LAYOUT PLAN (2 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - CVC - UL - DRP - 4002

ARCHITECTURE

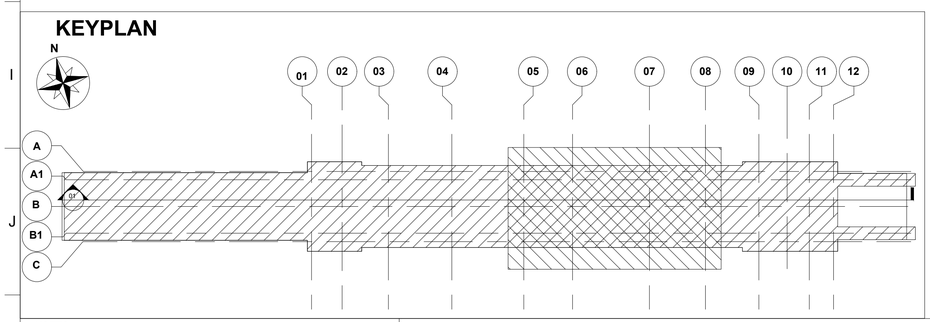
plot scale 50mm



1 | UNDERCROFT_LEVEL PLAN (3 OF 4)

4003 | Scale: 1 : 100

KEYPLAN



NOTE:
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SCHEDULE OF OPENING - UNDERCROFT LVL

NOS	EFF. HEIGHT OF OPENING	EFF. WIDTH OF OPENING	SILL LVL	LINTEL LVL	REMARK
01	2000	1500	+00.00	+1500	MEP RELATED
02	2000	1500	+00.00	+1500	MEP RELATED
03	2000	3000	+00.00	+2400	MEP RELATED
04	2000	3000	+00.00	+2400	MEP RELATED

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

REVISION SCHEDULE

Current Revision	Current Revision Date	Current Revision Description
B03.1	13/10/2021	PLATFORM LVL. CUTOUT UPDATED AS PER SEM. B03

AECOM-SYSTRA-CEG

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Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
B03	18.OCT.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT UNDER GROUND STATION

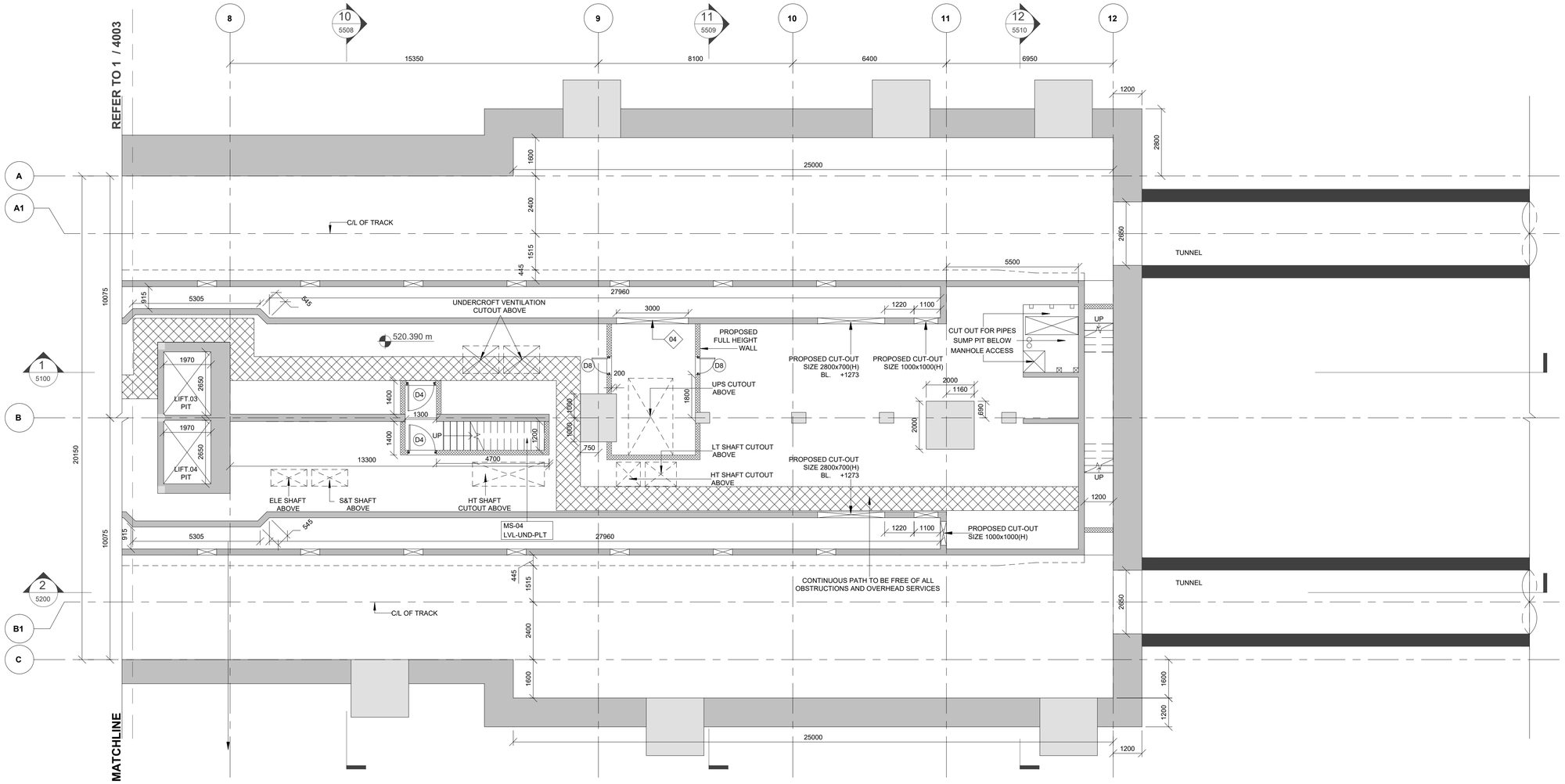
TITLE: UNDERCROFT_LEVEL PLAN (3 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - CVC - UL - DRP - 4003

ARCHITECTURE

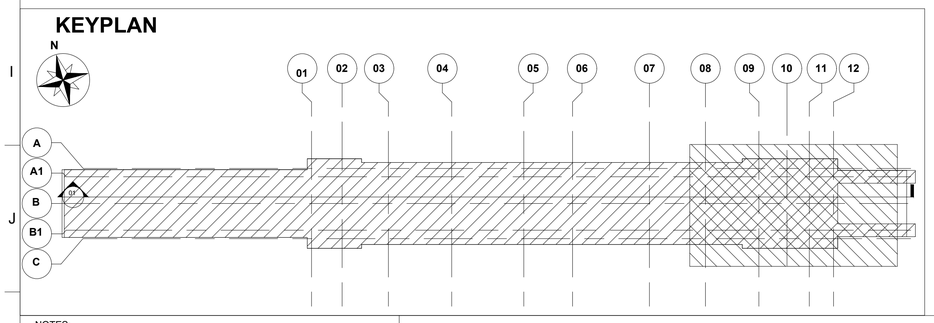
plot scale 50mm



1 UNDERCROFT_LEVEL PLAN (4 OF 4)

4004 Scale: 1 : 100

KEYPLAN



FLOOR FINISH	CEILING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS IN DETAIL

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB
- PLANTER FILLED

NOTE:
opening in the schedule are not final may be changed as per services requirement.

SCHEDULE OF OPENING - UNDERCROFT LVL

NOS	EFF. HEIGHT OF OPENING	EFF. WIDTH OF OPENING	SILL LVL	LINTEL LVL	REMARK
01	2000	1500	+00.00	+1500	MEP RELATED
02	2000	1500	+00.00	+1500	MEP RELATED
03	2000	3000	+00.00	+2400	MEP RELATED
04	2000	3000	+00.00	+2400	MEP RELATED

REVISION SCHEDULE

Current Revision	Current Revision Date	Current Revision Description
B03.1	13/10/2021	PLATFORM LVL. CUTOUT UPDATED AS PER SEM. B03

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert	Chief System Expert
AFC Expert	Structural Expert	Signalling Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	11.OCT.2021	AS PER GC COMMENTS	
B02	15.SEP.2020	AS PER GC COMMENTS	
B01	28.FEB.2020	FIRST ISSUED	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.12.2021	DATE: 20.12.2021	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: CIVIL COURT UNDER GROUND STATION

TITLE: UNDERCROFT LEVEL PLAN (4 OF 4)

SCALE: 1:100 | DATE: 20.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - CVC - UL - DRP - 4004

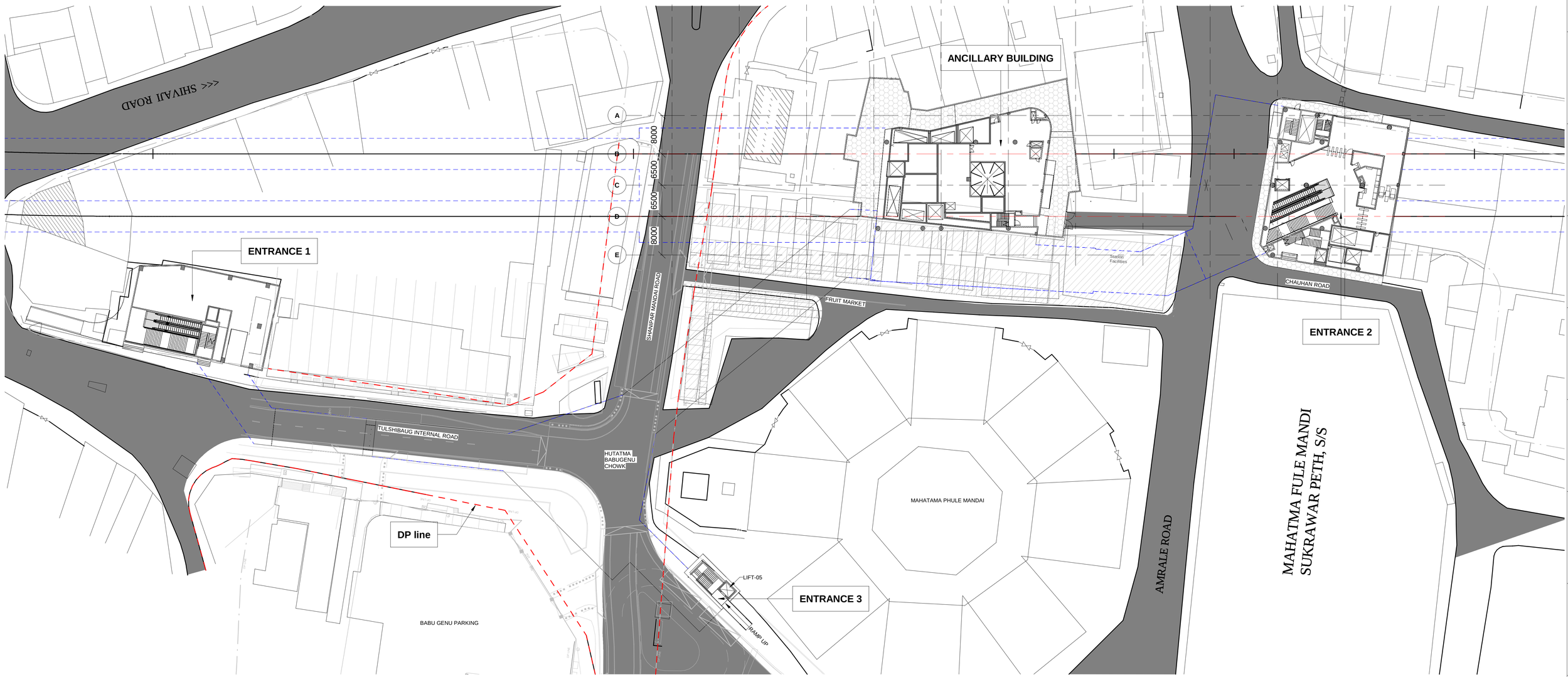
ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

N



1 GROUND FLOOR MASTER PLAN

1000 Scale: 1 : 400

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEAD)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **GROUND FLOOR MASTER PLAN**

SCALE: | DATE:17.10.2020 | STATUS: | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - MNA - DST - 1000

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

N

ENTRANCE 2

RAMP UP

RAMP UP

Station Facilities

TEMPLE

1 / 1102

2 / 5501

1 / 1103

5 / 5503

1 / 5100

TVS CUTOUT ABOVE

ME20.1 RELIEF CUTOUT 14.02 m²

ME10.1 TVS CUTOUT 9.19 m²

ME40 FRESH AIR CUTOUT 8.57 m²

EL10.2 ELECTRICAL CUTOUT 1.45 m²

PL10.2 PLUMBING CUTOUT 0.83 m²

UT11 UTILITY CUTOUT 2.86 m²

DG10 DG STACK 4.27 m²

RELIEF CUTOUT ABOVE

U44B WATER TANK & PUMP ROOM 190.58 m²

SKYLIGHT ABOVE 7000 X 7000

FIRE TANK-1

FIRE TANK-2

ACCESS HATCH 3000 x 3000

RELIEF CUTOUT ABOVE

ME21.3 RELIEF CUTOUT 15.01 m²

U45 DG ROOM 200.76 m²

RWT-2

RWT-1

FHC

ME11.3 TVS CUTOUT 9.00 m²

ME76 EVS CUTOUT 3.00 m²

ME30.3 EXHAUST CUTOUT 9.00 m²

ESC- 09 LVL-MZ1 TO ST LENGTH- 22826.35 mm RISE-8560mm

ESC- 10 LVL-MZ1 TO ST LENGTH- 22826.35 mm RISE-8560mm

ME22.3 RELIEF CUTOUT 15.00 m²

EL12.3 ELECTRICAL CUTOUT 1.59 m²

ME79 SVS CUTOUT 2.03 m²

ME86 EVS CUTOUT 2.02 m²

U26.3B DB ROOM 17.89 m²

EXIT

LIFT 02

LIFT 03

U5.1/U 7.1 TICKETING/ EFO 17.50 m²

ST10.2 S&T CUTOUT 0.90 m²

U30 SCR ROOM 30.20 m²

FHC

ENTRY

ME23.3 RELIEF CUTOUT 15.00 m²

ME41.2 FRESH AIR CUTOUT 9.00 m²

ME31.2 EXHAUST CUTOUT 9.15 m²

PL12 PLUMBING SHAFT 1.18 m²

LOUVERS 6300 x 2960 @FFL+2000

14000 14000 14000 14000 14000 14000 14000 14000

870 1800 7535 3795 4415 9585 2880 2455 1390 1340

1440 2960 7205 1000 535 4335 2260 2715 2785 5650 1700 1300 1535 1130 1020 2005 865

29000 5528 2472 6500 6500 2472 5528

A A.1 B C D D.1 E

4 5 6 7 8 9 10 11

4.1 4.2 4.3 5.1 5.2 6.1 6.2 6.3 6.4 8.1 8.2 9.1 9.2 9.3 9.4 10.1 10.2 10.3 10.4 10.5 10.6 11.1 11.2 11.3

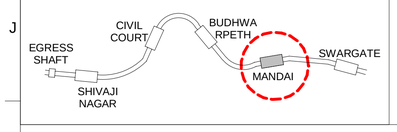
1 GROUND LEVEL PLAN (1 OF 2)

1100 Scale: 1 : 250

ROOM SCHEDULE- GROUND LVL

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U45	DG ROOM	200.76 m²
U44B	WATER TANK & PUMP ROOM	190.58 m²
U30	SCR ROOM	30.20 m²
U26.3B	DB ROOM	17.89 m²
U5.1/U 7.1	TICKETING/ EFO	17.50 m²
ST-17	STAIRCASE	21.68 m²
ST10.2	S&T CUTOUT	0.90 m²
PL12	PLUMBING SHAFT	1.18 m²
PL10.2	PLUMBING CUTOUT	0.83 m²
ME86	EVS CUTOUT	2.02 m²
ME79	SVS CUTOUT	2.03 m²
ME76	EVS CUTOUT	3.00 m²
ME41.2	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.57 m²
ME31.2	EXHAUST CUTOUT	9.15 m²
ME30.3	EXHAUST CUTOUT	9.00 m²
ME23.3	RELIEF CUTOUT	15.00 m²
ME22.3	RELIEF CUTOUT	15.00 m²
ME21.3	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.3	TVS CUTOUT	9.00 m²
ME10.1	TVS CUTOUT	9.19 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²

KEY PLAN



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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **GROUND LEVEL PLAN (1 OF 2)**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - GL - DRP - 1100

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

N

LIFT

01
9014

02
9014

1 GROUND LEVEL PLAN (2 OF 2)

1101 Scale: 1 : 100

ROOM SCHEDULE- GROUND LVL

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U45	DG ROOM	200.76 m²
U44B	WATER TANK & PUMP ROOM	190.58 m²
U30	SCR ROOM	30.20 m²
U26.3B	DB ROOM	17.89 m²
U5.1/U 7.1	TICKETING/ EFO	17.50 m²
ST-17	STAIRCASE	21.68 m²
ST10.2	S&T CUTOUT	0.90 m²
PL12	PLUMBING SHAFT	1.18 m²
PL10.2	PLUMBING CUTOUT	0.83 m²
ME86	EVS CUTOUT	2.02 m²
ME79	SVS CUTOUT	2.03 m²
ME76	EVS CUTOUT	3.00 m²
ME41.2	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.57 m²
ME31.2	EXHAUST CUTOUT	9.15 m²
ME30.3	EXHAUST CUTOUT	9.00 m²
ME23.3	RELIEF CUTOUT	15.00 m²
ME22.3	RELIEF CUTOUT	15.00 m²
ME21.3	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.3	TVS CUTOUT	9.00 m²
ME10.1	TVS CUTOUT	9.19 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²

AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **GROUND LEVEL PLAN (2 OF 2)**

SCALE: 1:250	DATE:17.10.2020	STATUS:	REVISION NO:

DRG NO: P4D02 - ACM - AR - PRM - MNA - GL - DRP - 1101 B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

N

REFER TO 1 / 1103

ROOM SCHEDULE- GROUND LVL

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U45	DG ROOM	200.76 m²
U44B	WATER TANK & PUMP ROOM	190.58 m²
U30	SCR ROOM	30.20 m²
U26.3B	DB ROOM	17.89 m²
U5.1/U 7.1	TICKETING/ EFO	17.50 m²
ST-17	STAIRCASE	21.68 m²
ST10.2	S&T CUTOUT	0.90 m²
PL12	PLUMBING SHAFT	1.18 m²
PL10.2	PLUMBING CUTOUT	0.83 m²
ME86	EVS CUTOUT	2.02 m²
ME79	SVS CUTOUT	2.03 m²
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ME31.2	EXHAUST CUTOUT	9.15 m²
ME30.3	EXHAUST CUTOUT	9.00 m²
ME23.3	RELIEF CUTOUT	15.00 m²
ME22.3	RELIEF CUTOUT	15.00 m²
ME21.3	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.3	TVS CUTOUT	9.00 m²
ME10.1	TVS CUTOUT	9.19 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²

LOUVER SCHEDULE

Mark	Length	Height	Sill Level	Level
V1	6200	3600	1400	PLINTH LEVEL
V2	12500	1700	3000	PLINTH LEVEL
V3	8330	3600	1400	PLINTH LEVEL ENTRY 2
V4	6300	3600	1400	PLINTH LEVEL ENTRY 2
V5	6600	4700	300	ANCILLARY LEVEL
V6a	6220	4700	300	ANCILLARY LEVEL
V6b	1255	4700	300	ANCILLARY LEVEL
V7	11660	1210	2640	ANCILLARY LEVEL
V8	7800	1210	2640	ANCILLARY LEVEL
V9	5000	3400	440	ANCILLARY LEVEL
V10	1400	3400	440	ANCILLARY LEVEL

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEY PLAN

1 GROUND LEVEL PLAN (1 OF 2)

1102 Scale: 1 : 100

NOTES:

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2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY.ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNEMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **GROUND LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - GL - DRP - 1102

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

N

14000 | 14000 | 14000

8.1 1440 | 8.2 1700 | 9 2960 | 9.1 1300 | 9.2 7205 | 9.3 1535 | 9.4 535 | 10 1000 | 10.1 1130 | 10.2 4335 | 10.3 2260 | 10.4 1020 | 10.5 2715 | 11 2005 | 11.1 2785 | 11.2 865 | 11.3 5650

REFER TO 1 / 1102

5528 | 2472 | 6500 | 29000 | 6500 | 2472 | 5528

MATCHLINE

AMRALE ROAD

ME22.3
RELIEF CUTOUT
15.00 m²

ST-06
LVL-AN TO ST
WIDTH- 1200mm
RISER- 171.25 mm
TREAD- 300.0 mm
STEPS- 32

LVL- ST TO AN

5 / 5503

D4 GL-10

D6 GL-08

FFL+ 560.540 m

ROLLING SHUTTER

ENTRY/EXIT

RAMP UP

RS2 GL-18

TVM

FS-02
LVL-M1 TO GL
WIDTH- 1200mm
RISER- 150.00 mm
TREAD- 300.0 mm
STEPS- 57

ME79
SVS CUTOUT
2.03 m²

U26.3B
DB ROOM
F1 | C4
+560.540m

ME86
EVS CUTOUT
2.02 m²

EL12.3
ELECTRICAL CUTOUT
1.59 m²

EXIT

D6a GL-07

560.090 m

FFL+ 560.540 m

U5.1/U 7.1
TICKETING/ EFO
F5 | C1
+560.840m | +3 m

D7 GL-11

4 / 9101

1 / 9105

LIFT-02
LVL-PF TO GL
LENGTH-2550mm
WIDTH-1950mm
RISE-20550mm

ST10.2
S&T CUTOUT
0.90 m²

D7 GL-09

1 / 5100

ESC- 09
LVL-MZ1 TO ST
LENGTH- 22826.35 mm
RISE-8560mm

ESC- 10
LVL-MZ1 TO ST
LENGTH- 22826.35 mm
RISE-8560mm

U30
SCR ROOM
F5 | C1
+560.840m | +3 m

560.540 m

PAC-01

ENTRY

ST-05
LVL-GL TO M1
WIDTH- 2500mm
RISER- 150.00 mm
TREAD- 300.0 mm
STEPS- 57

ST-07
LVL-GL TO AN
WIDTH- 1500mm
RISER- 150.00 mm
TREAD- 300.0 mm
STEPS- 37

ME23.3
RELIEF CUTOUT
15.00 m²

RS2 GL-19

PD CORE/ ENTRY

1 / 9102

560.540 m

LOUVERS
8330 x 3600
@FFL+2000

V3

FFL+ 560.090 m

PL12
PLUMBING SHAFT
1.18 m²

LIFT-03
LVL-GL TO PD
LENGTH-2550mm
WIDTH-1950mm
RISE-9750mm

LOUVERS
6300 x 3600
@FFL+2000

V4

ME31.2
EXHAUST CUTOUT
9.15 m²

ME41.2
FRESH AIR CUTOUT
9.00 m²

KEY PLAN

1 / 1103 **GROUND LEVEL PLAN (2 OF 2)**

Scale: 1 : 100

ROOM SCHEDULE- GROUND LVL

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U45	DG ROOM	200.76 m²
U44B	WATER TANK & PUMP ROOM	190.58 m²
U30	SCR ROOM	30.20 m²
U26.3B	DB ROOM	17.89 m²
U5.1/U 7.1	TICKETING/ EFO	17.50 m²
ST-17	STAIRCASE	21.68 m²
ST10.2	S&T CUTOUT	0.90 m²
PL12	PLUMBING SHAFT	1.18 m²
PL10.2	PLUMBING CUTOUT	0.83 m²
ME86	EVS CUTOUT	2.02 m²
ME79	SVS CUTOUT	2.03 m²
ME76	EVS CUTOUT	3.00 m²
ME41.2	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.57 m²
ME31.2	EXHAUST CUTOUT	9.15 m²
ME30.3	EXHAUST CUTOUT	9.00 m²
ME23.3	RELIEF CUTOUT	15.00 m²
ME22.3	RELIEF CUTOUT	15.00 m²
ME21.3	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.3	TVS CUTOUT	9.00 m²
ME10.1	TVS CUTOUT	9.19 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²

LOUVER SCHEDULE

Mark	Length	Height	Sill Level	Level
V1	6200	3600	1400	PLINTH LEVEL
V2	12500	1700	3000	PLINTH LEVEL
V3	8330	3600	1400	PLINTH LEVEL ENTRY 2
V4	6300	3600	1400	PLINTH LEVEL ENTRY 2
V5	6600	4700	300	ANCILLARY LEVEL
V6a	6220	4700	300	ANCILLARY LEVEL
V6b	1255	4700	300	ANCILLARY LEVEL
V7	11660	1210	2640	ANCILLARY LEVEL
V8	7800	1210	2640	ANCILLARY LEVEL
V9	5000	3400	440	ANCILLARY LEVEL
V10	1400	3400	440	ANCILLARY LEVEL

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **GROUND LEVEL PLAN (2 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS: | REVISION NO: B03

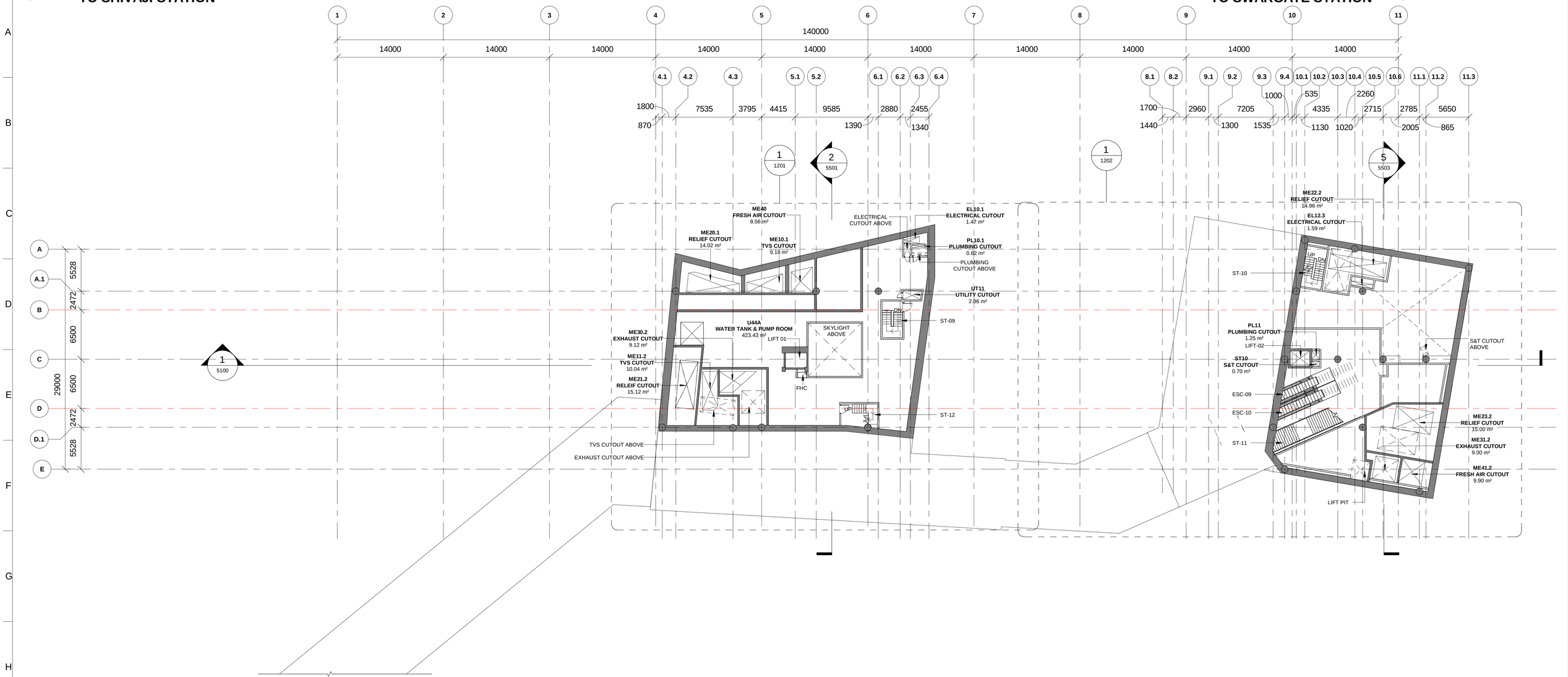
DRG NO: P4D02 - ACM - AR - PRM - MNA - GL - DRP - 1103

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



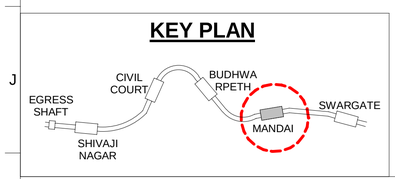
1 SERVICE LEVEL KEY PLAN

1200 | Scale: 1 : 250

ROOM SCHEDULE- SERVICE

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U44A	WATER TANK & PUMP ROOM	423.43 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.25 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME41.2	FRESH AIR CUTOUT	9.90 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME31.2	EXHAUST CUTOUT	9.00 m²
ME30.2	EXHAUST CUTOUT	9.12 m²
ME23.2	RELIEF CUTOUT	15.00 m²
ME22.2	RELIEF CUTOUT	14.96 m²
ME21.2	RELEIF CUTOUT	15.12 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.2	TVS CUTOUT	10.04 m²
ME10.1	TVS CUTOUT	9.18 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²

KEY PLAN



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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
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PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

N/A

- ☐ Proof checked by GC
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
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AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **SERVICE LEVEL KEY PLAN**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - SE - DRP - 1200

REVISION NO: B03

ARCHITECTURE

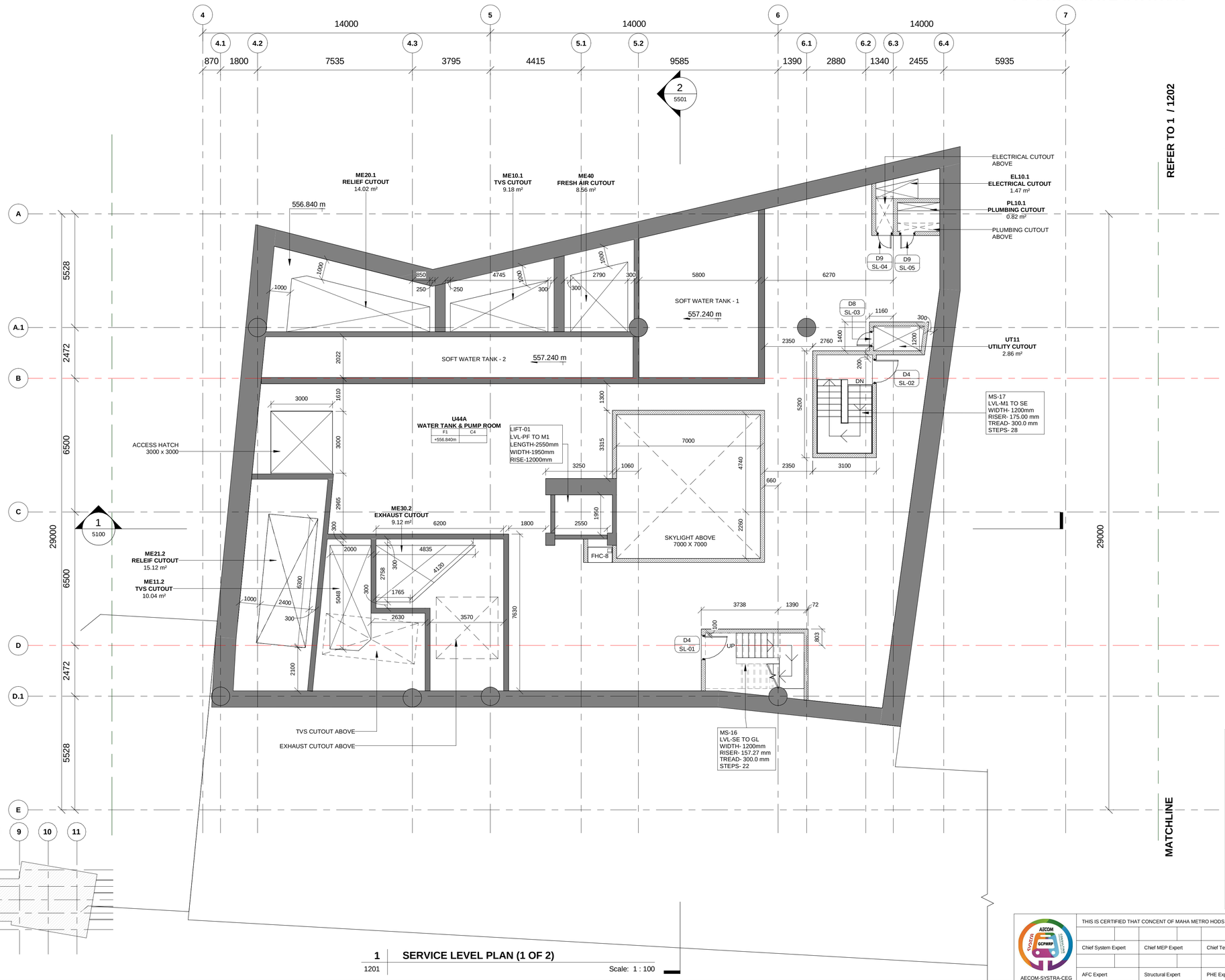
plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 1202

MATCHLINE



ROOM SCHEDULE- SERVICE

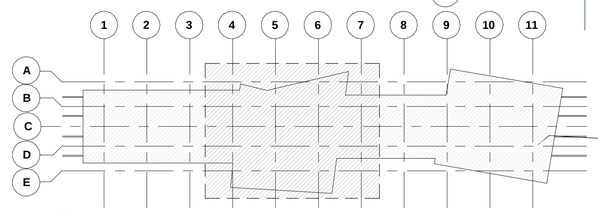
Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U44A	WATER TANK & PUMP ROOM	423.43 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.25 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME41.2	FRESH AIR CUTOUT	9.90 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME31.2	EXHAUST CUTOUT	9.00 m²
ME30.2	EXHAUST CUTOUT	9.12 m²
ME23.2	RELIEF CUTOUT	15.00 m²
ME22.2	RELIEF CUTOUT	14.96 m²
ME21.2	RELEIF CUTOUT	15.12 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.2	TVS CUTOUT	10.04 m²
ME10.1	TVS CUTOUT	9.18 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



KEY PLAN

1 / 1201 SERVICE LEVEL PLAN (1 OF 2)

Scale: 1 : 100

NOTES:

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11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **SERVICE LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - SE - DRP - 1201

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

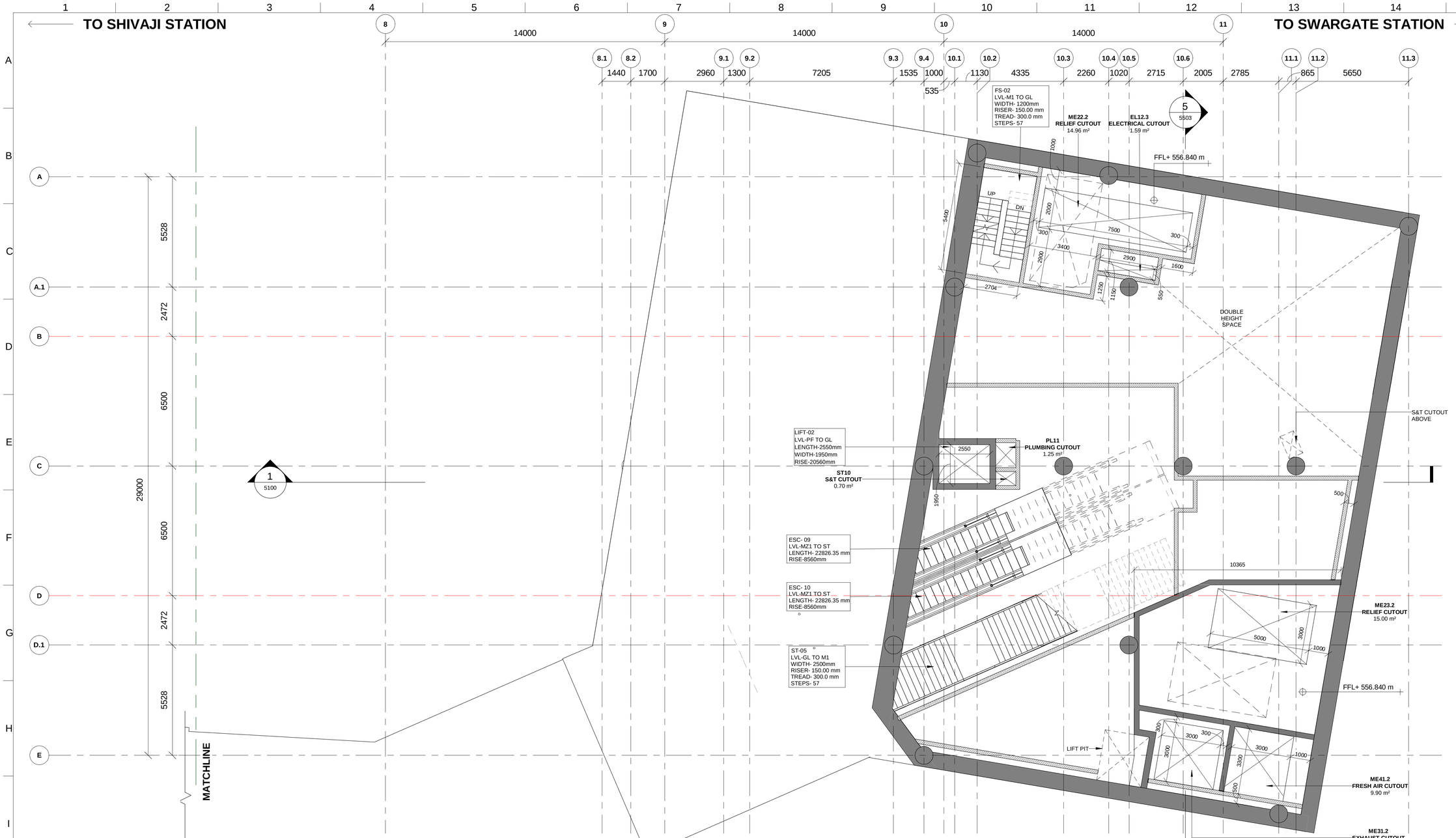
TO SHIVAJI STATION

TO SWARGATE STATION

14000 | 14000 | 14000

8.1 1440 | 8.2 1700 | 9 2960 | 9.1 1300 | 9.2 7205 | 9.3 1535 | 9.4 1000 | 10 535 | 10.1 1130 | 10.2 4335 | 10.3 2260 | 10.4 1020 | 10.5 2715 | 10.6 2005 | 11 2785 | 11.1 865 | 11.2 5650 | 11.3

5528 | 2472 | 6500 | 6500 | 2472 | 5528 | 29000



ROOM SCHEDULE- SERVICE

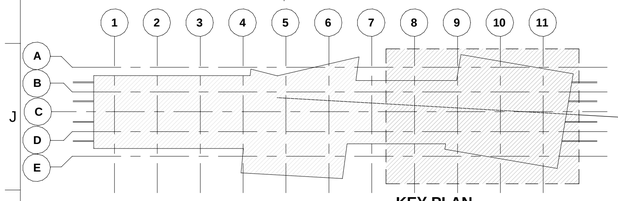
Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U44A	WATER TANK & PUMP ROOM	423.43 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.25 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME41.2	FRESH AIR CUTOUT	9.90 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME31.2	EXHAUST CUTOUT	9.00 m²
ME30.2	EXHAUST CUTOUT	9.12 m²
ME23.2	RELIEF CUTOUT	15.00 m²
ME22.2	RELIEF CUTOUT	14.96 m²
ME21.2	RELEIF CUTOUT	15.12 m²
ME20.1	RELIEF CUTOUT	14.02 m²
ME11.2	TVS CUTOUT	10.04 m²
ME10.1	TVS CUTOUT	9.18 m²
EL12.3	ELECTRICAL CUTOUT	1.59 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



KEY PLAN

1 SERVICE LEVEL PLAN (2 OF 2)

1202 Scale: 1 : 100

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:	DATE:	DATE:	DATE:	DATE:	
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:	NAME:	NAME:	NAME:	NAME:	
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY	

N.A.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **SERVICE LEVEL PLAN (2 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - SE - DRP - 1202

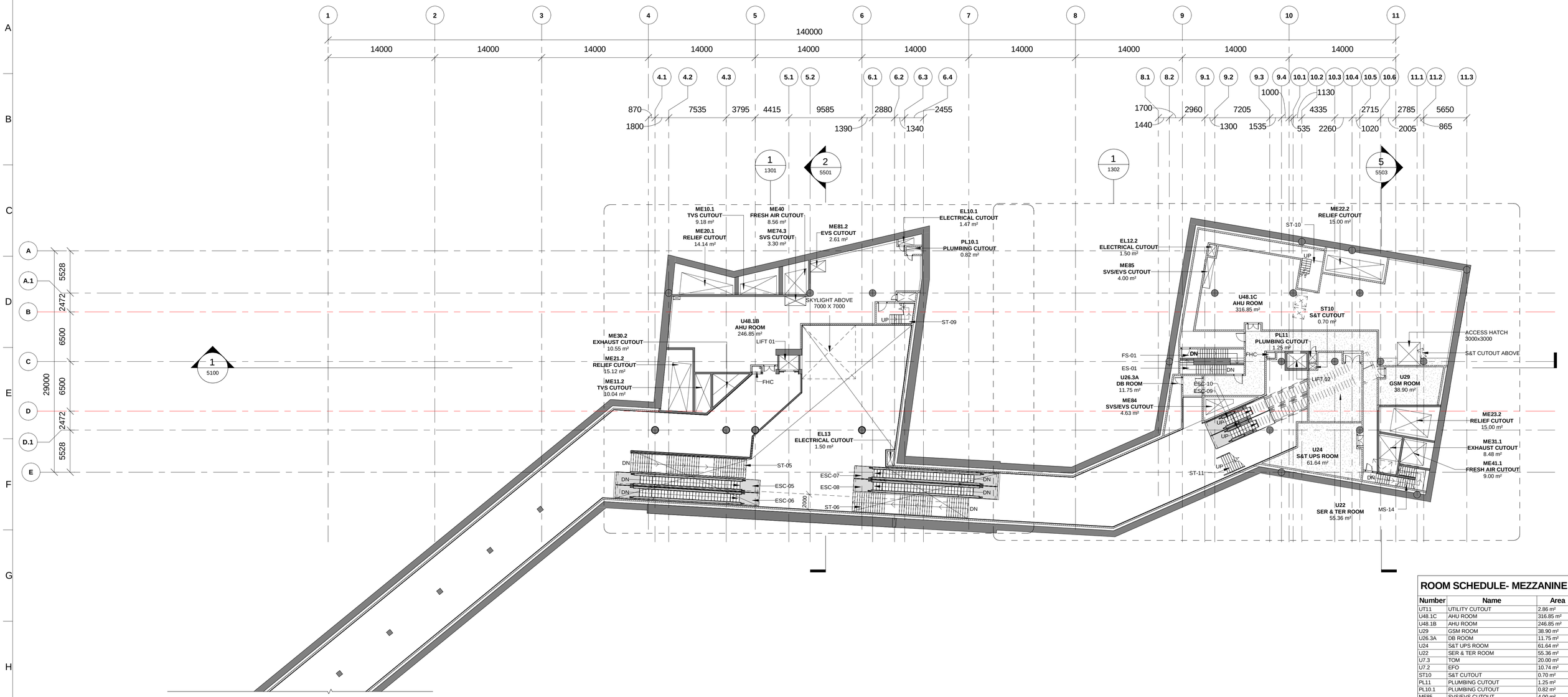
REVISION NO: B03

ARCHITECTURE

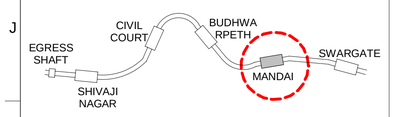
plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



KEY PLAN



1 | MEZZANINE 1 LEVEL KEY PLAN

1300 | Scale: 1 : 250

ROOM SCHEDULE- MEZZANINE 1

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U48.1C	AHU ROOM	316.85 m²
U48.1B	AHU ROOM	246.85 m²
U29	GSM ROOM	38.90 m²
U26.3A	DB ROOM	11.75 m²
U24	S&T UPS ROOM	61.64 m²
U22	SER & TER ROOM	55.36 m²
U7.3	TOM	20.00 m²
U7.2	EFO	10.74 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.25 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME85	SVS/EVS CUTOUT	4.00 m²
ME84	SVS/EVS CUTOUT	4.63 m²
ME81.2	EVS CUTOUT	2.61 m²
ME74.3	SVS CUTOUT	3.30 m²
ME41.1	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME31.1	EXHAUST CUTOUT	8.48 m²
ME30.2	EXHAUST CUTOUT	10.55 m²
ME23.2	RELIEF CUTOUT	15.00 m²
ME22.2	RELIEF CUTOUT	15.00 m²
ME21.2	RELIEF CUTOUT	15.12 m²
ME20.1	RELIEF CUTOUT	14.14 m²
ME11.2	TVS CUTOUT	10.04 m²
ME10.1	TVS CUTOUT	9.18 m²
FS-01	STAIRCASE	11.34 m²
ES-01	STAIRCASE	11.34 m²
EL13	ELECTRICAL CUTOUT	1.50 m²
EL12.2	ELECTRICAL CUTOUT	1.50 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PASSAGE	71.06 m²
-	BOH CORRIDOR	114.87 m²

AECOM-SYSTRA-CEG

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE 1 LEVEL KEY PLAN**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - M1 - DRP - 1300

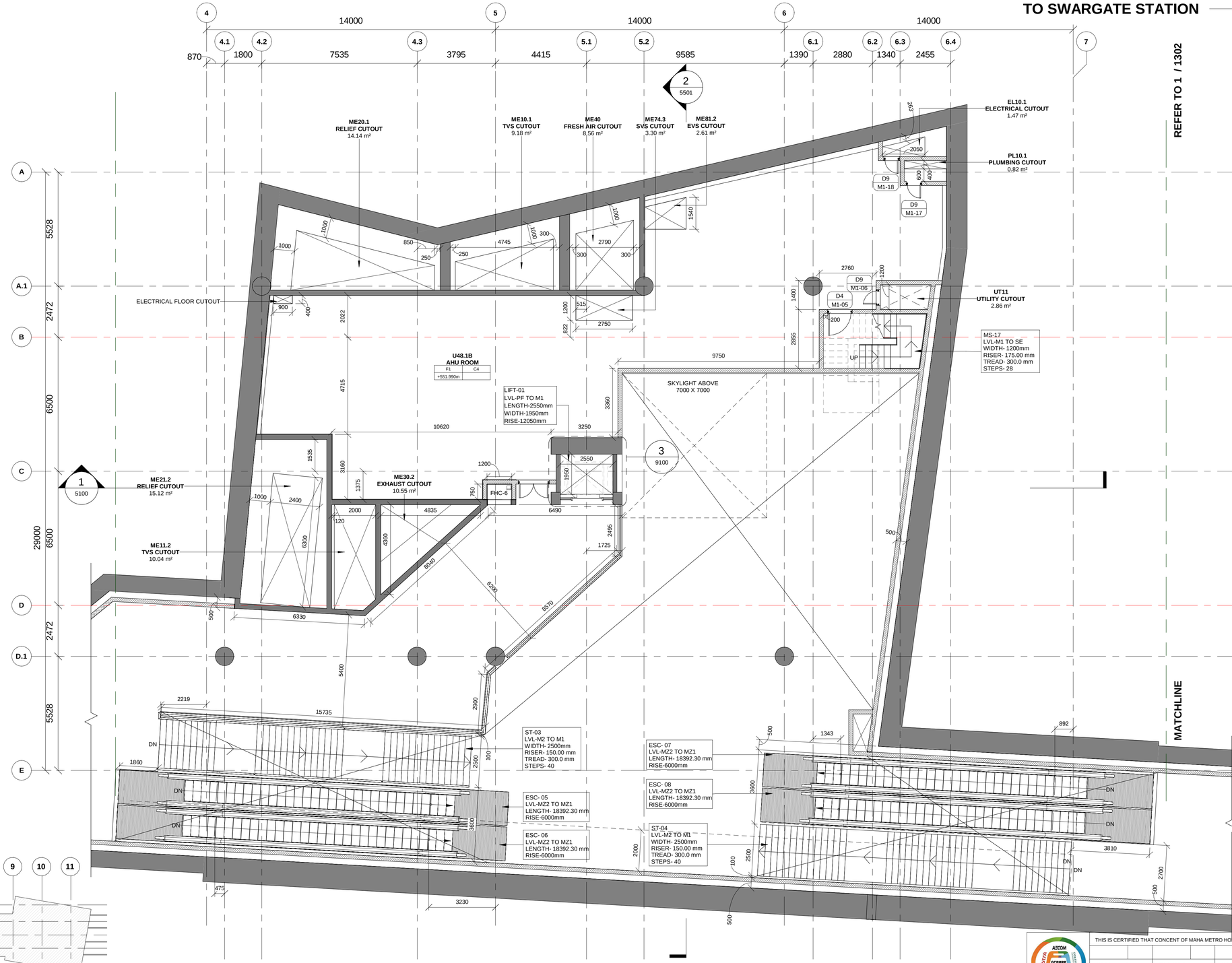
REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



ROOM SCHEDULE- MEZZANINE 1

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U48.1C	AHU ROOM	316.85 m²
U48.1B	AHU ROOM	246.85 m²
U29	GSM ROOM	38.90 m²
U26.3A	DB ROOM	11.75 m²
U24	S&T UPS ROOM	61.64 m²
U22	SER & TER ROOM	55.36 m²
U7.3	TOM	20.00 m²
U7.2	EFO	10.74 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.25 m²
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ME41.1	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME31.1	EXHAUST CUTOUT	8.48 m²
ME30.2	EXHAUST CUTOUT	10.55 m²
ME23.2	RELIEF CUTOUT	15.00 m²
ME22.2	RELIEF CUTOUT	15.00 m²
ME21.2	RELIEF CUTOUT	15.12 m²
ME20.1	RELIEF CUTOUT	14.14 m²
ME11.2	TVS CUTOUT	10.04 m²
ME10.1	TVS CUTOUT	9.18 m²
FS-01	STAIRCASE	11.34 m²
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EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PASSAGE	71.06 m²
-	BOH CORRIDOR	114.87 m²

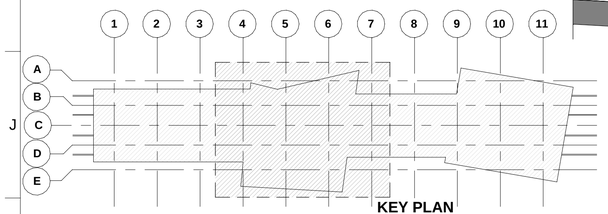
Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEY PLAN



1 MEZZANINE-1 LEVEL PLAN (1 OF 2)

1301 Scale: 1 : 100

NOTES:

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE-1 LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - M1 - DRP - 1301

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 1301

MATCHLINE

ROOM SCHEDULE- MEZZANINE 1

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U48.1C	AHU ROOM	316.85 m²
U48.1B	AHU ROOM	246.85 m²
U29	GSM ROOM	38.90 m²
U26.3A	DB ROOM	11.75 m²
U24	S&T UPS ROOM	61.64 m²
U22	SER & TER ROOM	55.36 m²
U7.3	TOM	20.00 m²
U7.2	EFO	10.74 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.25 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME85	SVS/EVS CUTOUT	4.00 m²
ME84	SVS/EVS CUTOUT	4.63 m²
ME74.3	SVS CUTOUT	3.30 m²
ME41.1	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME31.1	EXHAUST CUTOUT	8.48 m²
ME30.2	EXHAUST CUTOUT	10.55 m²
ME23.2	RELIEF CUTOUT	15.00 m²
ME22.2	RELIEF CUTOUT	15.00 m²
ME21.2	RELIEF CUTOUT	15.12 m²
ME20.1	RELIEF CUTOUT	14.14 m²
ME11.2	TVS CUTOUT	10.04 m²
ME10.1	TVS CUTOUT	9.18 m²
FS-01	STAIRCASE	11.34 m²
ES-01	STAIRCASE	11.34 m²
EL13	ELECTRICAL CUTOUT	1.50 m²
EL12.2	ELECTRICAL CUTOUT	1.50 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PASSAGE	71.06 m²
-	BOH CORRIDOR	114.87 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEY PLAN

1 MEZZANINE-1 LEVEL PLAN (2 OF 2)

1302 Scale: 1 : 100

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N.A.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE-1 LEVEL PLAN (2 OF 2)**

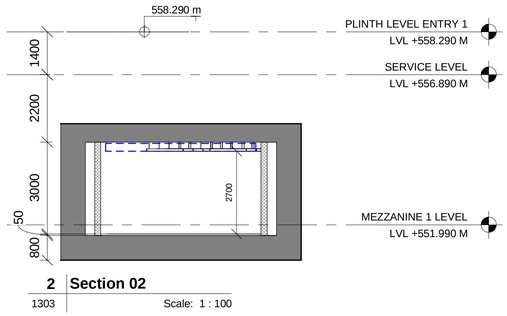
SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - M1 - DRP - 1302

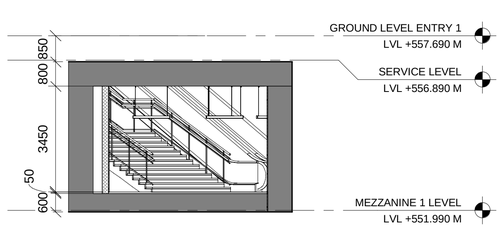
REVISION NO: B03

ARCHITECTURE

plot scale 50mm



2 Section 02
1303 Scale: 1 : 100



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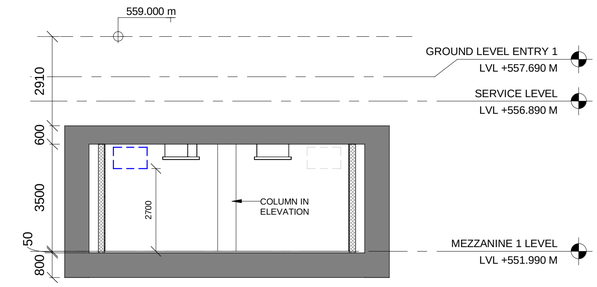

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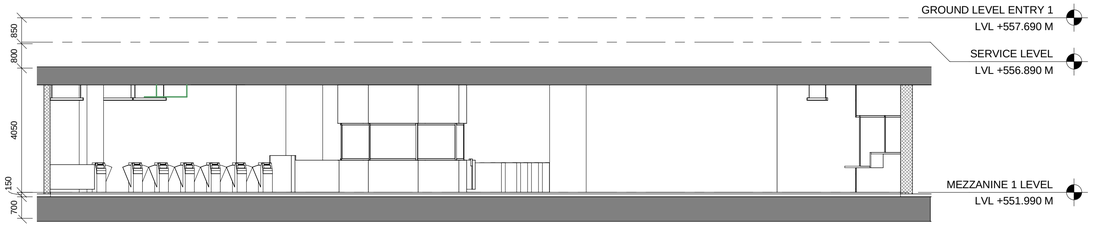

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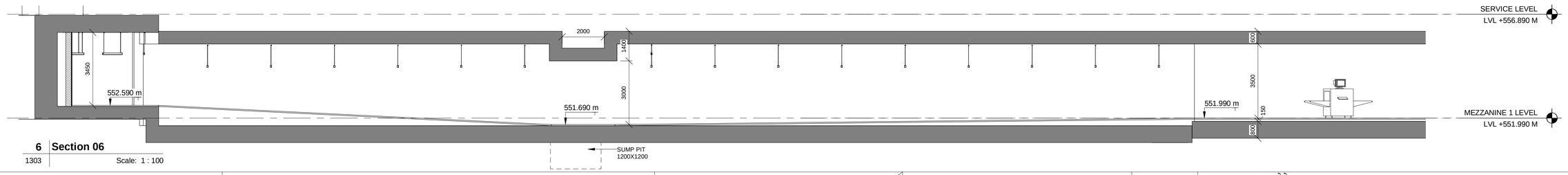

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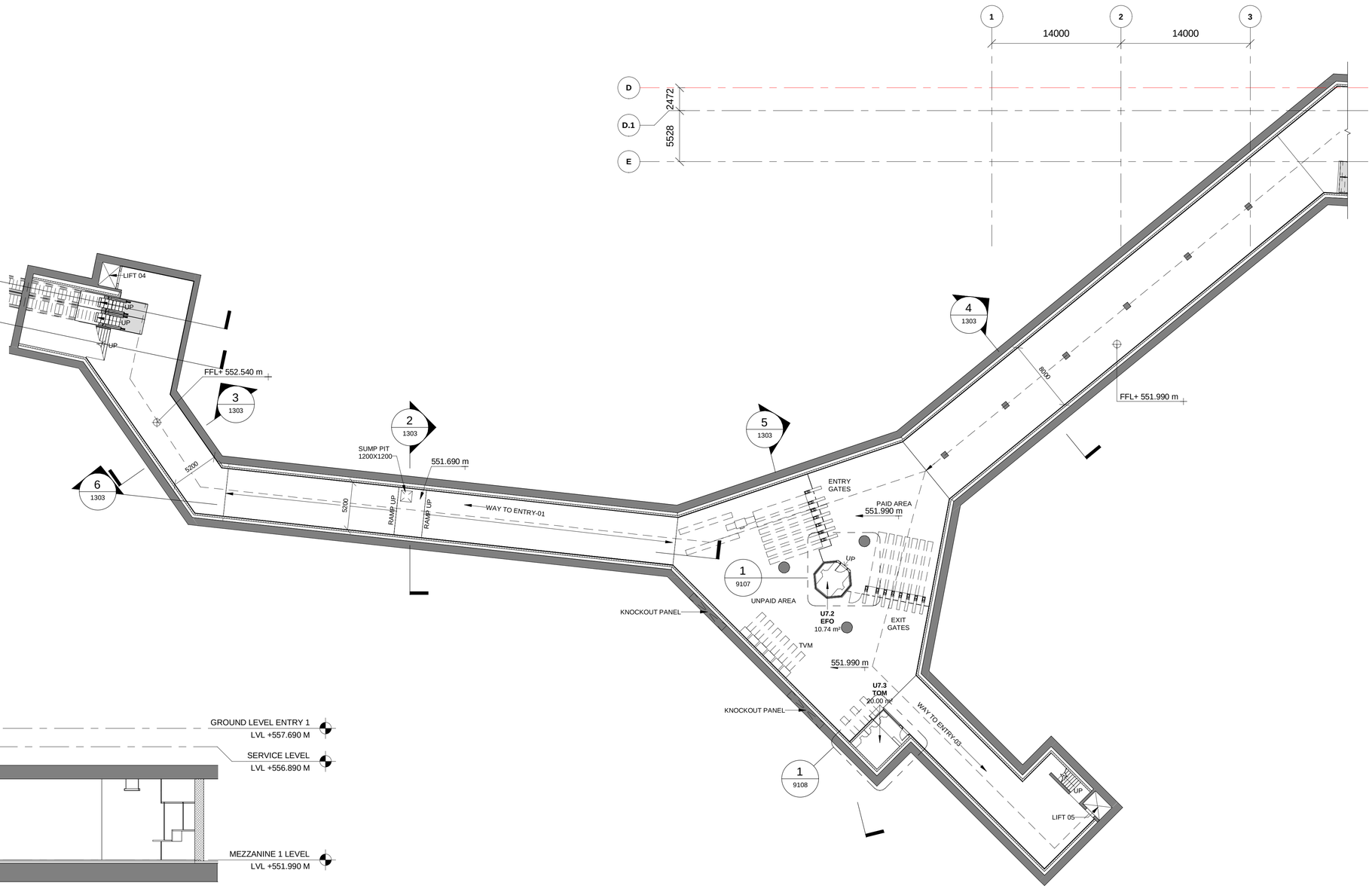
1303 Scale: 1 : 100



1 MEZZANINE 1 LEVEL SUBWAY KEY PLAN
1303 Scale: 1 : 250

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE 1 LEVEL (SUBWAY) KEY PLAN**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - M1 - DRP - 1303

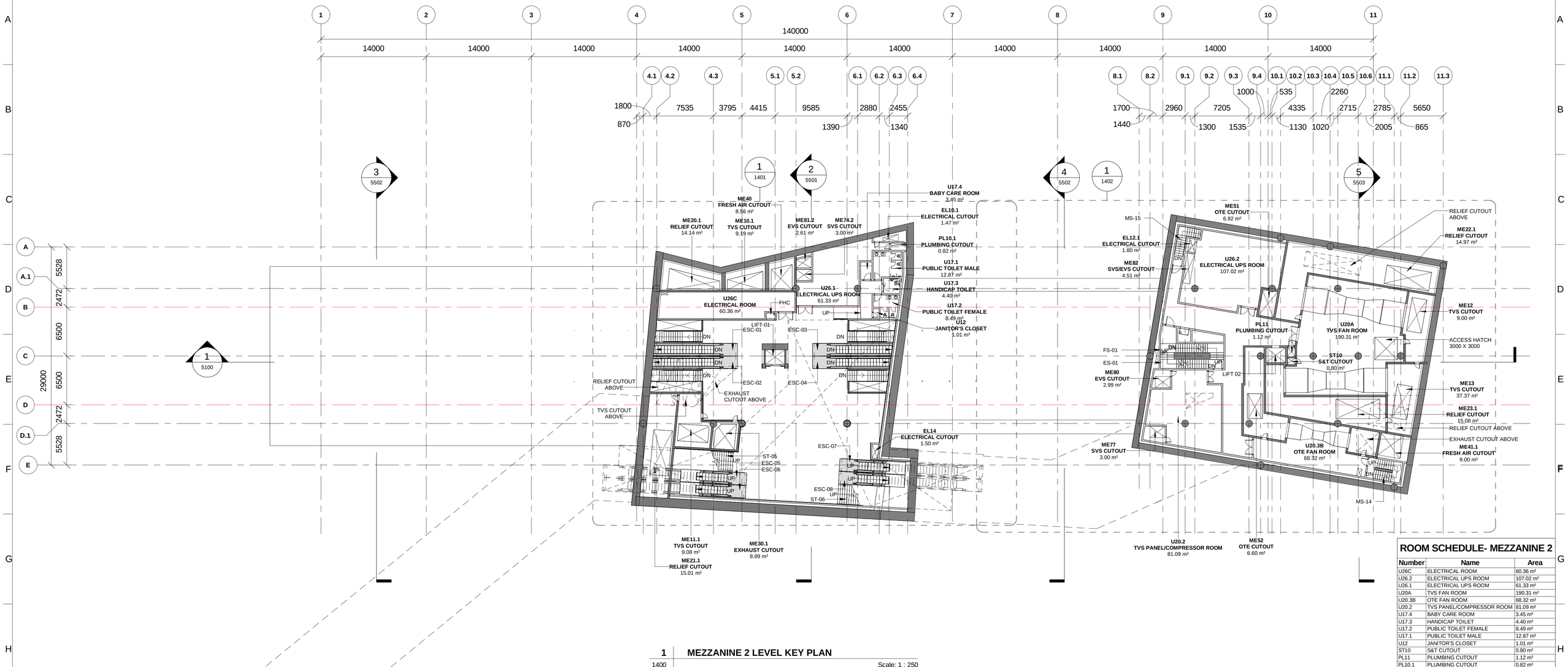
REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



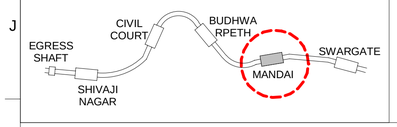
1 MEZZANINE 2 LEVEL KEY PLAN

1400 Scale: 1 : 250

ROOM SCHEDULE- MEZZANINE 2

Number	Name	Area
U26C	ELECTRICAL ROOM	60.36 m²
U26.2	ELECTRICAL UPS ROOM	107.02 m²
U26.1	ELECTRICAL UPS ROOM	61.33 m²
U20A	TVS FAN ROOM	190.31 m²
U20.3B	OTE FAN ROOM	68.32 m²
U20.2	TVS PANEL/COMPRESSOR ROOM	81.09 m²
U17.4	BABY CARE ROOM	3.45 m²
U17.3	HANDICAP TOILET	4.40 m²
U17.2	PUBLIC TOILET FEMALE	8.49 m²
U17.1	PUBLIC TOILET MALE	12.87 m²
U12	JANITOR'S CLOSET	1.01 m²
ST10	S&T CUTOUT	0.80 m²
PL11	PLUMBING CUTOUT	1.12 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME82	SVS/EVS CUTOUT	4.51 m²
ME81.2	EVS CUTOUT	2.61 m²
ME80	EVS CUTOUT	2.99 m²
ME77	SVS CUTOUT	3.00 m²
ME74.2	SVS CUTOUT	3.00 m²
ME52	OTE CUTOUT	6.60 m²
ME51	OTE CUTOUT	6.92 m²
ME41.1	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME30.1	EXHAUST CUTOUT	8.89 m²
ME23.1	RELIEF CUTOUT	15.08 m²
ME22.1	RELIEF CUTOUT	14.97 m²
ME21.1	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.14 m²
ME13	TVS CUTOUT	37.37 m²
ME12	TVS CUTOUT	9.00 m²
ME11.1	TVS CUTOUT	9.08 m²
ME10.1	TVS CUTOUT	9.19 m²
EL14	ELECTRICAL CUTOUT	1.50 m²
EL12.1	ELECTRICAL CUTOUT	1.80 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	BOH CORRIDOR	118.74 m²

KEY PLAN



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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE 2 LEVEL KEY PLAN**

SCALE: 1:250	DATE:17.10.2020	STATUS:	REVISION NO:
			B03

DRG NO: P4D02 - ACM - AR - PRM - MNA - M2 - DRP - 1400

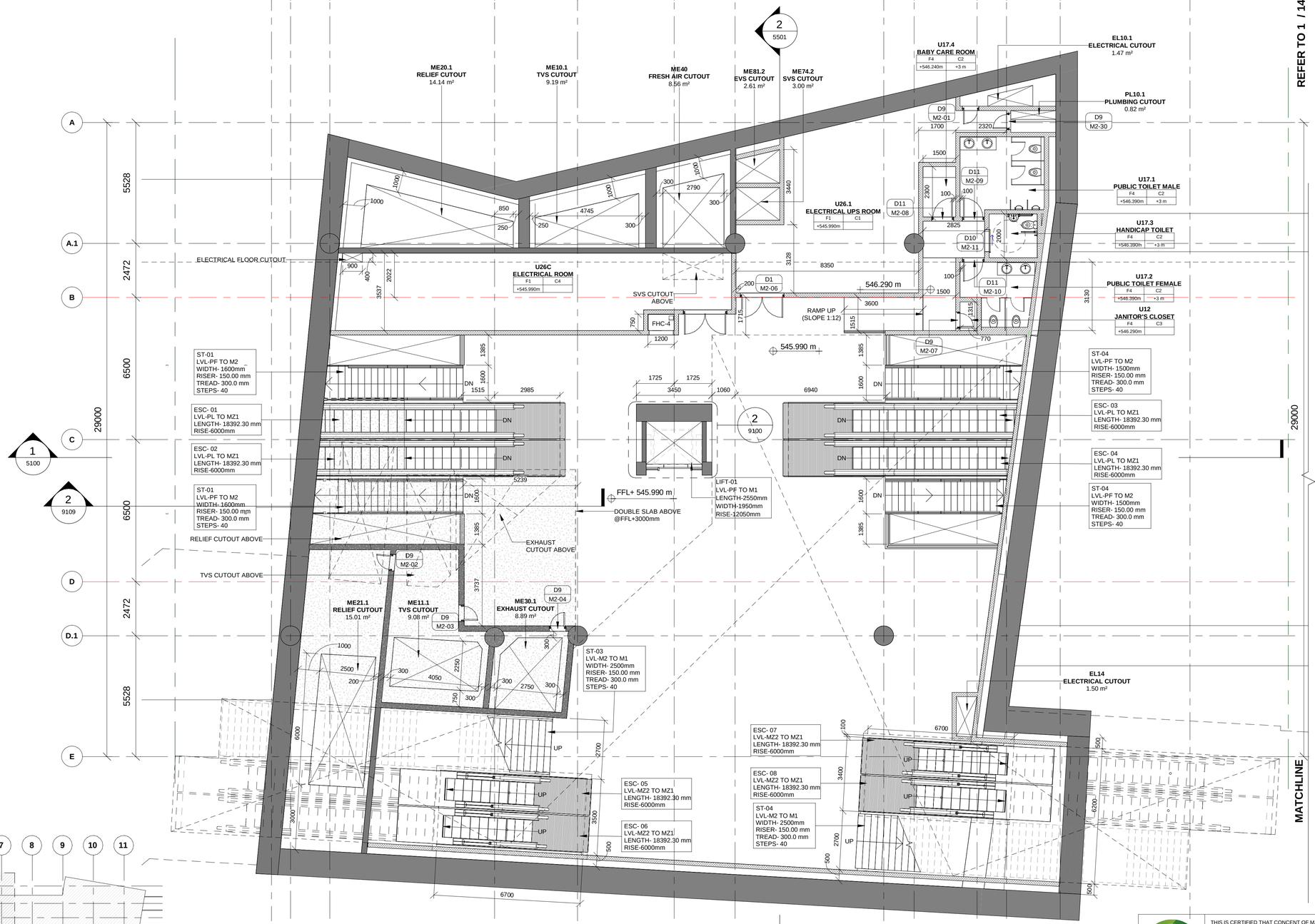
ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 1402



ROOM SCHEDULE- MEZZANINE 2

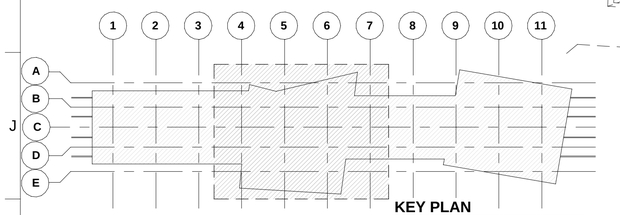
Number	Name	Area
U26C	ELECTRICAL ROOM	60.36 m²
U26.2	ELECTRICAL UPS ROOM	107.02 m²
U26.1	ELECTRICAL UPS ROOM	61.33 m²
U20A	TVS FAN ROOM	190.31 m²
U20.3B	OTE FAN ROOM	68.32 m²
U20.2	TVS PANEL/COMPRESSOR ROOM	81.09 m²
U17.4	BABY CARE ROOM	3.45 m²
U17.3	HANDICAP TOILET	4.40 m²
U17.2	PUBLIC TOILET FEMALE	8.49 m²
U17.1	PUBLIC TOILET MALE	12.87 m²
U12	JANITOR'S CLOSET	1.01 m²
ST10	S&T CUTOUT	0.80 m²
PL11	PLUMBING CUTOUT	1.12 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME82	SVS/EVS CUTOUT	4.51 m²
ME81.2	EVS CUTOUT	2.61 m²
ME80	EVS CUTOUT	2.99 m²
ME77	SVS CUTOUT	3.00 m²
ME74.2	SVS CUTOUT	3.00 m²
ME52	OTE CUTOUT	6.60 m²
ME51	OTE CUTOUT	6.92 m²
ME41.1	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME30.1	EXHAUST CUTOUT	8.89 m²
ME23.1	RELIEF CUTOUT	15.08 m²
ME22.1	RELIEF CUTOUT	14.97 m²
ME21.1	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.14 m²
ME13	TVS CUTOUT	37.37 m²
ME12	TVS CUTOUT	9.00 m²
ME11.1	TVS CUTOUT	9.08 m²
ME10.1	TVS CUTOUT	9.19 m²
EL14	ELECTRICAL CUTOUT	1.50 m²
EL12.1	ELECTRICAL CUTOUT	1.80 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	BOH CORRIDOR	118.74 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



KEY PLAN

1 MEZZANINE-2 LEVEL PLAN (1 OF 2)

1401 Scale: 1 : 100

NOTES:

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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE-2 LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - M2 - DRP - 1401

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 1401

MATCHLINE

ROOM SCHEDULE- MEZZANINE 2

Number	Name	Area
U26C	ELECTRICAL ROOM	60.36 m²
U26.2	ELECTRICAL UPS ROOM	107.02 m²
U26.1	ELECTRICAL UPS ROOM	61.33 m²
U20A	TVS FAN ROOM	190.31 m²
U20.3B	OTE FAN ROOM	68.32 m²
U20.2	TVS PANEL/COMPRESSOR ROOM	81.09 m²
U17.4	BABY CARE ROOM	3.45 m²
U17.3	HANDICAP TOILET	4.40 m²
U17.2	PUBLIC TOILET FEMALE	8.49 m²
U17.1	PUBLIC TOILET MALE	12.87 m²
U12	JANITOR'S CLOSET	1.01 m²
ST10	S&T CUTOUT	0.80 m²
PL11	PLUMBING CUTOUT	1.12 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME82	SVS/EVS CUTOUT	4.51 m²
ME81.2	EVS CUTOUT	2.61 m²
ME80	EVS CUTOUT	2.99 m²
ME77	SVS CUTOUT	3.00 m²
ME74.2	SVS CUTOUT	3.00 m²
ME52	OTE CUTOUT	6.60 m²
ME51	OTE CUTOUT	6.92 m²
ME41.1	FRESH AIR CUTOUT	9.00 m²
ME40	FRESH AIR CUTOUT	8.56 m²
ME30.1	EXHAUST CUTOUT	8.89 m²
ME23.1	RELIEF CUTOUT	15.08 m²
ME22.1	RELIEF CUTOUT	14.97 m²
ME21.1	RELIEF CUTOUT	15.01 m²
ME20.1	RELIEF CUTOUT	14.14 m²
ME13	TVS CUTOUT	37.37 m²
ME12	TVS CUTOUT	9.00 m²
ME11.1	TVS CUTOUT	9.08 m²
ME10.1	TVS CUTOUT	9.19 m²
EL14	ELECTRICAL CUTOUT	1.50 m²
EL12.1	ELECTRICAL CUTOUT	1.80 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	BOH CORRIDOR	118.74 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

MS-15
LVL-PF TO M2
WIDTH- 1200mm
RISER- 176.47 mm
TREAD- 300.0 mm
STEPS- 30

MS-14
LVL-M2 TO M1
WIDTH- 1200mm
RISER- 153.85 mm
TREAD- 300.0 mm
STEPS- 39

LIFT-02
LVL-PF TO GL
LENGTH-2550mm
WIDTH-1950mm
RISE-20560mm

EL12.1 ELECTRICAL CUTOUT 1.80 m²
ME82 SVS/EVS CUTOUT 4.51 m²
U26.2 ELECTRICAL UPS ROOM (F1 +545.990m, C1 +3 m)
ME81.2 EVS CUTOUT 2.61 m²
ME80 EVS CUTOUT 2.99 m²
EVS/SVS CUTOUT ABOVE
U20.2 TVS PANEL/COMPRESSOR ROOM (F1 +545.990m, C4)
ME52 OTE CUTOUT 6.60 m²
ME77 SVS CUTOUT 3.00 m²
FFL+ 545.990 m
DOUBLE SLAB ABOVE @FFL+3000
ME51 OTE CUTOUT 6.92 m²
U20A TVS FAN ROOM (F1 +545.990m, C4)
PL11 PLUMBING CUTOUT 1.12 m²
ST10 S&T CUTOUT 0.80 m²
ACCESS HATCH 3000 X 3000
STACKED FANS
U20.3B OTE FAN ROOM (F1 +545.990m, C4)
RELIEF CUTOUT ABOVE
ME22.1 RELIEF CUTOUT 14.97 m²
ME12 TVS CUTOUT 9.00 m²
ME13 TVS CUTOUT 37.37 m²
ME23.1 RELIEF CUTOUT 15.08 m²
RELIEF CUTOUT ABOVE
EXHAUST CUTOUT ABOVE
ME41.1 FRESH AIR CUTOUT 9.00 m²
EXHAUST CUTOUT ABOVE
EXHAUST CUTOUT ABOVE
ELECTRICAL CUTOUT 1000x600

KEY PLAN

1 MEZZANINE-2 LEVEL PLAN (2 OF 2)

1402 Scale: 1 : 100

AECOM-SYSTRA-CEG

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **MEZZANINE-2 LEVEL PLAN (2 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - M2 - DRP - 1402

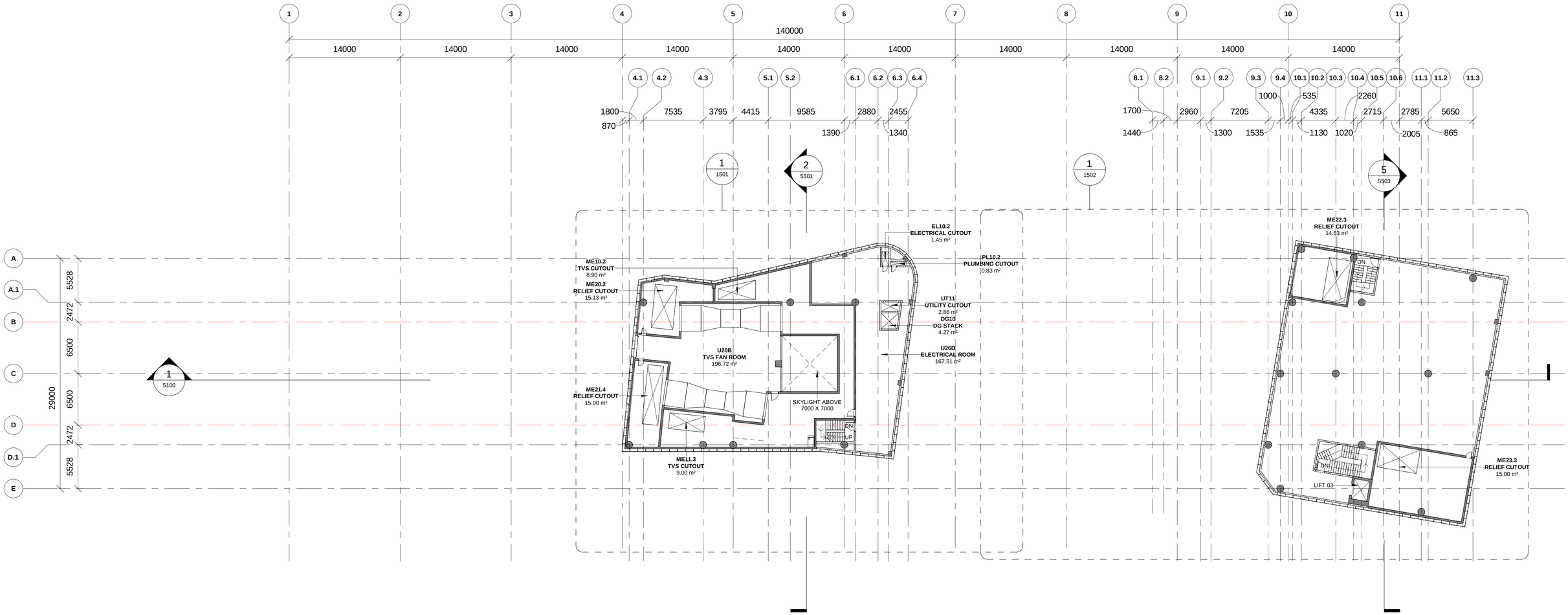
REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



1 | **ANCILLARY LEVEL KEY PLAN**

1500 | Scale: 1 : 250

KEY PLAN

ROOM SCHEDULE- ANCILLARY

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U26D	ELECTRICAL ROOM	167.51 m²
U20B	TVS FAN ROOM	196.72 m²
ST-14	STAIRCASE	29.63 m²
ST-13	STAIRCASE	12.91 m²
PL10.2	PLUMBING CUTOUT	0.83 m²
ME23.3	RELIEF CUTOUT	15.00 m²
ME22.3	RELIEF CUTOUT	14.63 m²
ME21.4	RELIEF CUTOUT	15.00 m²
ME20.2	RELIEF CUTOUT	15.13 m²
ME10.2	TVS CUTOUT	8.90 m²
EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²
-	PLENUM	52.77 m²

AECOM-SYSTRA-CEG

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **ANCILLARY LEVEL KEY PLAN**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - AL01 - DRP - 1500

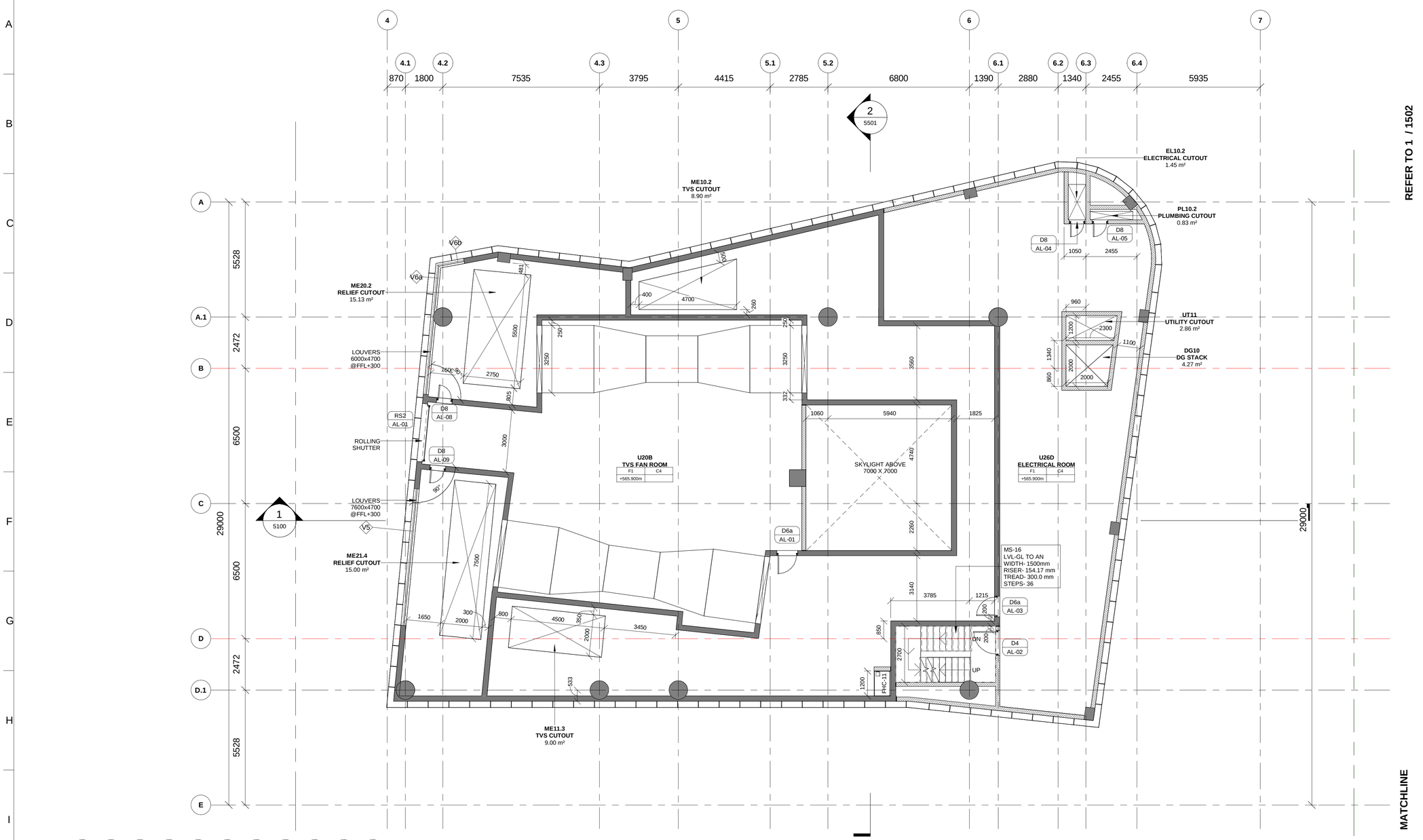
REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



ROOM SCHEDULE- ANCILLARY

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U26D	ELECTRICAL ROOM	167.51 m²
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EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²
-	PLENUM	52.77 m²

LOUVER SCHEDULE

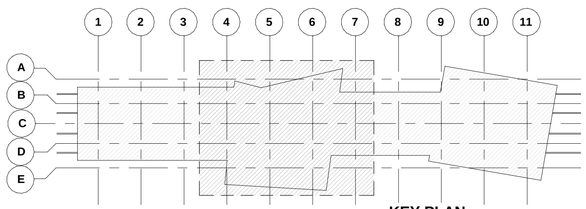
Mark	Length	Height	Sill Level	Level
V1	6200	3600	1400	PLINTH LEVEL
V2	12500	1700	3000	PLINTH LEVEL
V3	8330	3600	1400	PLINTH LEVEL ENTRY 2
V4	6300	3600	1400	PLINTH LEVEL ENTRY 2
V5	6600	4700	300	ANCILLARY LEVEL
V6a	6220	4700	300	ANCILLARY LEVEL
V6b	1255	4700	300	ANCILLARY LEVEL
V7	11660	1210	2640	ANCILLARY LEVEL
V8	7800	1210	2640	ANCILLARY LEVEL
V9	5000	3400	440	ANCILLARY LEVEL
V10	1400	3400	440	ANCILLARY LEVEL

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



KEY PLAN

1 ANCILLARY LEVEL PLAN (1 OF 2)

1501 Scale: 1 : 100

NOTES:

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DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **ANCILLARY LEVEL PLAN (1 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - AL - DRP - 1501

REVISION NO: B03

ARCHITECTURE

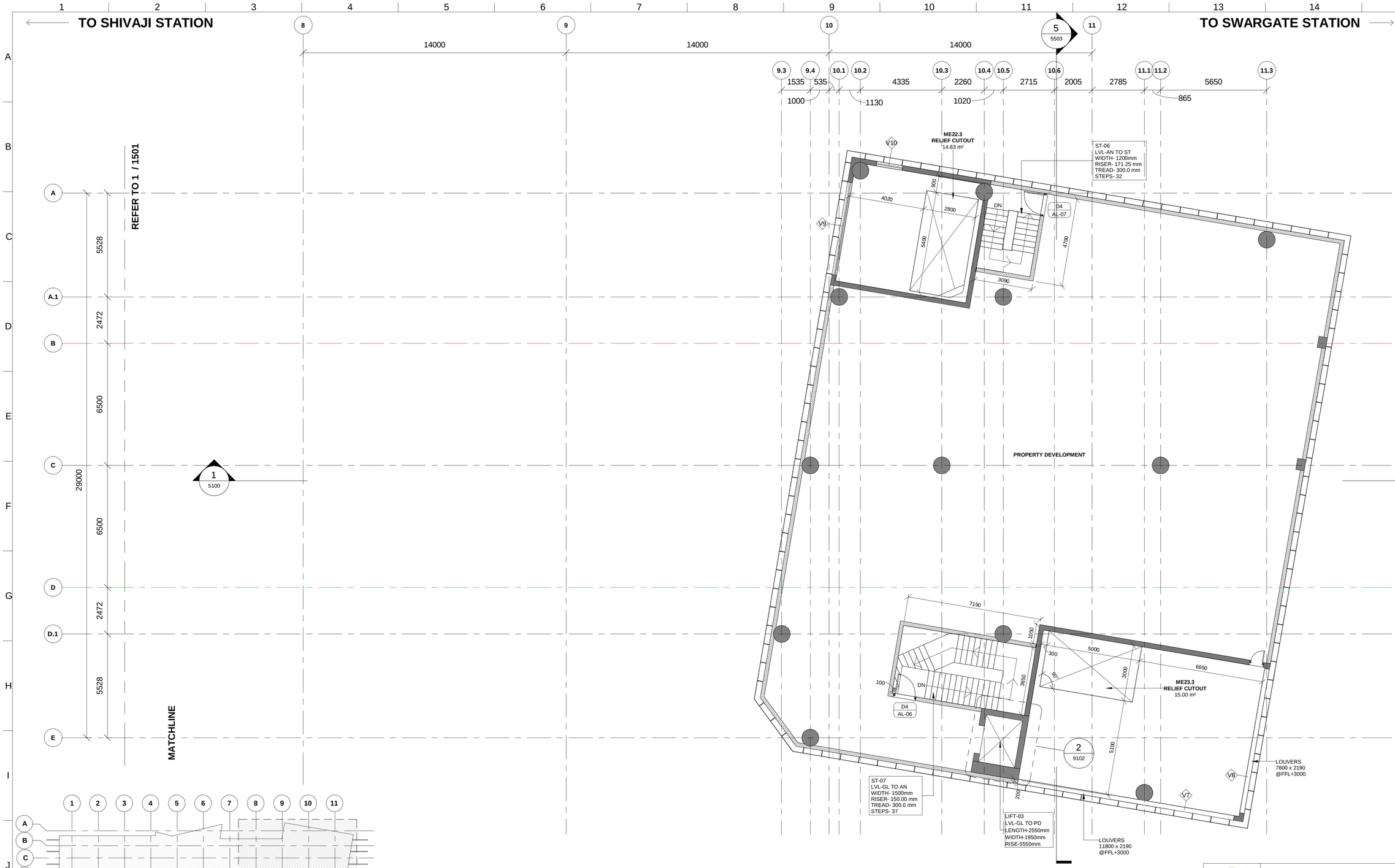
plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 1501

MATCHLINE



ROOM SCHEDULE- ANCILLARY

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U26D	ELECTRICAL ROOM	167.51 m²
U20B	TVS FAN ROOM	196.72 m²
ST-14	STAIRCASE	29.63 m²
ST-13	STAIRCASE	12.91 m²
PL10.2	PLUMBING CUTOUT	0.83 m²
ME23.3	RELIEF CUTOUT	15.00 m²
ME22.3	RELIEF CUTOUT	14.63 m²
ME21.4	RELIEF CUTOUT	15.00 m²
ME20.2	RELIEF CUTOUT	15.13 m²
ME10.2	TVS CUTOUT	8.90 m²
EL10.2	ELECTRICAL CUTOUT	1.45 m²
DG10	DG STACK	4.27 m²
-	PLENUM	52.77 m²

LOUVER SCHEDULE

Mark	Length	Height	Sill Level	Level
V1	6200	3600	1400	PLINTH LEVEL
V2	12500	1700	3000	PLINTH LEVEL
V3	8330	3600	1400	PLINTH LEVEL ENTRY 2
V4	6300	3600	1400	PLINTH LEVEL ENTRY 2
V5	6600	4700	300	ANCILLARY LEVEL
V6a	6220	4700	300	ANCILLARY LEVEL
V6b	1255	4700	300	ANCILLARY LEVEL
V7	11660	1210	2640	ANCILLARY LEVEL
V8	7800	1210	2640	ANCILLARY LEVEL
V9	5000	3400	440	ANCILLARY LEVEL
V10	1400	3400	440	ANCILLARY LEVEL

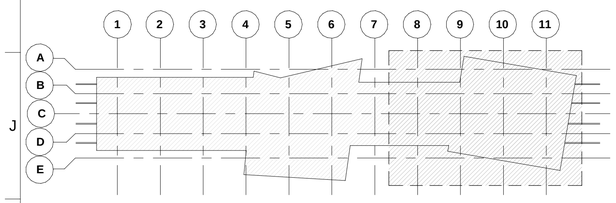
Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEY PLAN



1 ANCILLARY LEVEL PLAN (2 OF 2)

1502 Scale: 1 : 100

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

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☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT						COUNTER SIGNED BY MAHA METRO
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:		SIGN:		
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:	DATE:	DATE:	DATE:		DATE:		
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:	NAME:	NAME:	NAME:		NAME:		DY. HOD
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY		HOD

AECOM
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **ANCILLARY LEVEL PLAN (2 OF 2)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS: | REVISION NO: B03

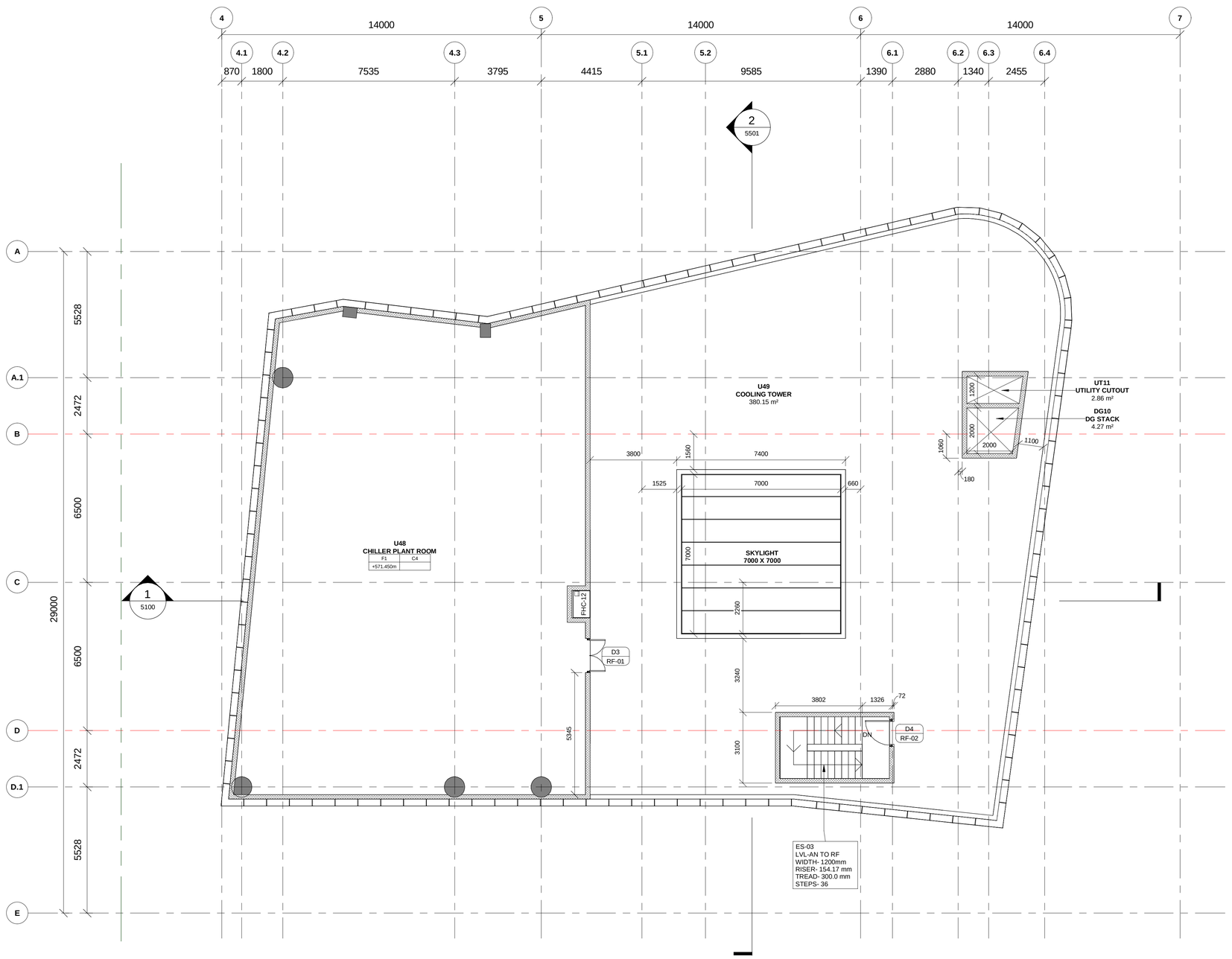
DRG NO: P4D02 - ACM - AR - PRM - MNA - AL01 - DRP - 1502

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



ROOM SCHEDULE- ROOF LEVEL

Number	Name	Area
UT11	UTILITY CUTOUT	2.86 m²
U49	COOLING TOWER	380.15 m²
U48	CHILLER PLANT ROOM	296.97 m²
ST-19	Room	45.89 m²
DG10	DG STACK	4.27 m²

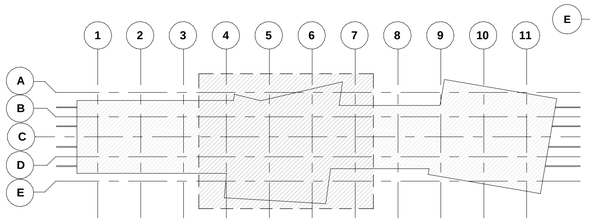
Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

1 ROOF LEVEL PLAN
1601 Scale: 1 : 100



KEY PLAN

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

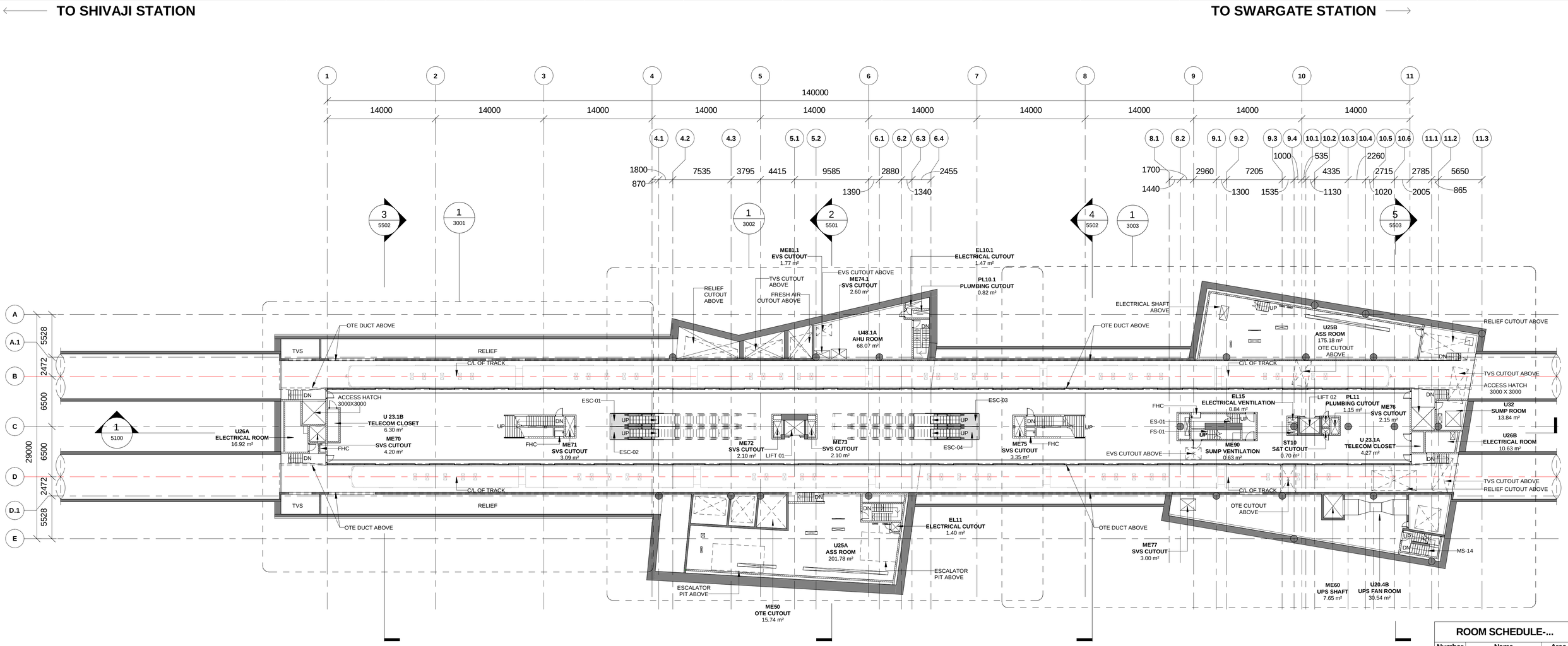
TITLE: **ROOF LEVEL PLAN**

SCALE: 1:100 | DATE:17.10.2020 | STATUS: | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - MNA - AL02 - DRP - 1601

ARCHITECTURE

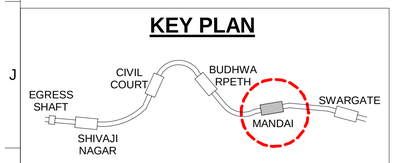
plot scale 50mm



1 PLATFORM LEVEL KEY PLAN

3000 Scale: 1 : 250

KEY PLAN



ROOM SCHEDULE-...

Number	Name	Area
U 23.1B	TELECOM CLOSET	6.30 m²
U 23.1A	TELECOM CLOSET	4.27 m²
U48.1A	AHU ROOM	68.07 m²
U32	SUMP ROOM	13.84 m²
U26B	ELECTRICAL ROOM	10.63 m²
U26A	ELECTRICAL ROOM	16.92 m²
U25B	ASS ROOM	175.18 m²
U25A	ASS ROOM	201.78 m²
U20.4B	UPS FAN ROOM	30.54 m²
ST-06	STAIRCASE	12.24 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.15 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME90	SUMP VENTILATION	0.63 m²
ME81.1	EVS CUTOUT	1.77 m²
ME77	SVS CUTOUT	3.00 m²
ME77	SVS CUTOUT	4.23 m²
ME76	SVS CUTOUT	2.15 m²
ME75	SVS CUTOUT	3.35 m²
ME74.1	SVS CUTOUT	2.60 m²
ME73	SVS CUTOUT	2.10 m²
ME72	SVS CUTOUT	2.10 m²
ME71	SVS CUTOUT	3.09 m²
ME70	SVS CUTOUT	4.20 m²
ME60	UPS SHAFT	7.65 m²
ME50	OTE CUTOUT	15.74 m²
EL15	ELECTRICAL VENTILATION	0.84 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PLATFORM	1,268.35 m²

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **PLATFORM LEVEL KEY PLAN**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - PT - DRP - 3000

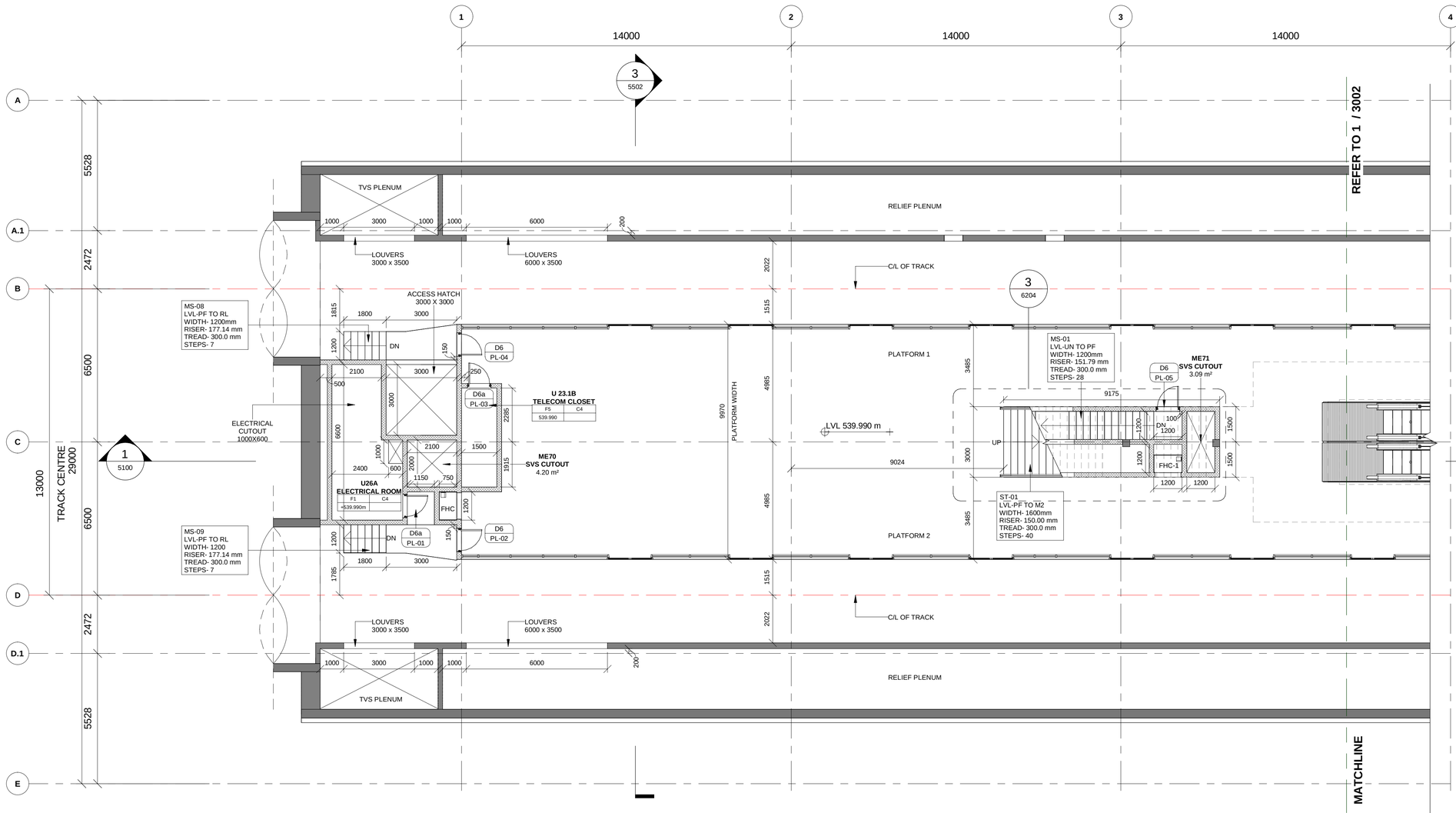
REVISION NO: B03

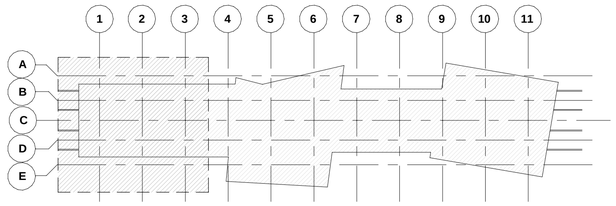
ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION





KEY PLAN

1 PLATFORM LEVEL PLAN (1 OF 3)

3001

Scale: 1 : 100

ROOM SCHEDULE-...

Number	Name	Area
U 23.1B	TELECOM CLOSET	6.30 m²
U 23.1A	TELECOM CLOSET	4.27 m²
U48.1A	AHU ROOM	68.07 m²
U32	SUMP ROOM	13.84 m²
U26B	ELECTRICAL ROOM	10.63 m²
U26A	ELECTRICAL ROOM	16.92 m²
U25B	ASS ROOM	175.18 m²
U25A	ASS ROOM	201.78 m²
U20.4B	UPS FAN ROOM	30.54 m²
ST-06	STAIRCASE	12.24 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.15 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME90	SUMP VENTILATION	0.63 m²
MEB1.1	EVS CUTOUT	1.77 m²
ME77	SVS CUTOUT	3.00 m²
ME77	SVS CUTOUT	4.23 m²
ME76	SVS CUTOUT	2.15 m²
ME75	SVS CUTOUT	3.35 m²
ME74.1	SVS CUTOUT	2.60 m²
ME73	SVS CUTOUT	2.10 m²
ME72	SVS CUTOUT	2.10 m²
ME71	SVS CUTOUT	3.09 m²
ME70	SVS CUTOUT	4.20 m²
ME60	UPS SHAFT	7.65 m²
ME50	OTE CUTOUT	15.74 m²
EL15	ELECTRICAL VENTILATION	0.84 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PLATFORM	1,268.35 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

NOTES:

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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **PLATFORM LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - PT - DRP - 3001

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 3001

REFER TO 1 / 3003

MATCHLINE

MATCHLINE

RELIEF CUTOUT ABOVE

TVS CUTOUT ABOVE

FRESH AIR CUTOUT ABOVE

EVS CUTOUT ABOVE

SVS CUTOUT ABOVE

ME81.1
EVS CUTOUT
1.77 m²

EL10.1
ELECTRICAL CUTOUT
1.47 m²

PL10.1
PLUMBING CUTOUT
0.82 m²

U48.1A
AHU ROOM
F1 | C4
+539.990m

MS-05
LVL-UN TO PF
WIDTH- 900mm
RISER- 172.58 mm
TREAD- 300.0 mm
STEPS- 31

ME74.1
SVS CUTOUT
2.60 m²

ESC- 01
LVL-PL TO MZ1
LENGTH- 18392.30 mm
RISE-6000mm

ESC- 02
LVL-PL TO MZ1
LENGTH- 18392.30 mm
RISE-6000mm

LIFT-01
LVL-PF TO M1
LENGTH-2550mm
WIDTH-1950mm
RISE-12050mm

ME72
SVS CUTOUT
2.10 m²

ME73
SVS CUTOUT
2.10 m²

PLATFORM 1

PLATFORM 2

PLATFORM WIDTH

FFL+ 539.990 m

ESC- 03
LVL-PL TO MZ1
LENGTH- 18392.30 mm
RISE-6000mm

ESC- 04
LVL-PL TO MZ1
LENGTH- 18392.30 mm
RISE-6000mm

MS-07
LVL-PF TO RL
WIDTH- 1200mm
RISER- 161.25 mm
TREAD- 300.0 mm
STEPS- 8

ACCESS PANEL
3500 x 3000

MS-06
LVL-UN TO PF
WIDTH- 1200mm
RISER- 172.58 mm
TREAD- 300.0 mm
STEPS- 31

EL11
ELECTRICAL CUTOUT
1.40 m²

U25A
ASS ROOM
F1 | C4
+539.990m

ESCALATOR PIT ABOVE

ESCALATOR PIT ABOVE

ME50
OTE CUTOUT
15.74 m²

TRACK CENTRE

1 PLATFORM LEVEL PLAN (2 OF 3)

3002 | Scale: 1 : 100

KEY PLAN

ROOM SCHEDULE-...

Number	Name	Area
U 23.1B	TELECOM CLOSET	6.30 m²
U 23.1A	TELECOM CLOSET	4.27 m²
U48.1A	AHU ROOM	68.07 m²
U32	SUMP ROOM	13.84 m²
U26B	ELECTRICAL ROOM	10.63 m²
U26A	ELECTRICAL ROOM	16.92 m²
U25B	ASS ROOM	175.18 m²
U25A	ASS ROOM	201.78 m²
U20.4B	UPS FAN ROOM	30.54 m²
ST-06	STAIRCASE	12.24 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.15 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
ME90	SUMP VENTILATION	0.63 m²
ME81.1	EVS CUTOUT	1.77 m²
ME77	SVS CUTOUT	3.00 m²
ME77	SVS CUTOUT	4.23 m²
ME76	SVS CUTOUT	2.15 m²
ME75	SVS CUTOUT	3.35 m²
ME74.1	SVS CUTOUT	2.60 m²
ME73	SVS CUTOUT	2.10 m²
ME72	SVS CUTOUT	2.10 m²
ME71	SVS CUTOUT	3.09 m²
ME70	SVS CUTOUT	4.20 m²
ME60	UPS SHAFT	7.65 m²
ME50	OTE CUTOUT	15.74 m²
EL15	ELECTRICAL VENTILATION	0.84 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PLATFORM	1,268.35 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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HOD

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **PLATFORM LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - PT - DRP - 3002

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

ROOM SCHEDULE-...

Number	Name	Area
U 23.1B	TELECOM CLOSET	6.30 m²
U 23.1A	TELECOM CLOSET	4.27 m²
U48.1A	AHU ROOM	68.07 m²
U32	SUMP ROOM	13.84 m²
U26B	ELECTRICAL ROOM	10.63 m²
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ME81.1	EVS CUTOUT	1.77 m²
ME77	SVS CUTOUT	3.00 m²
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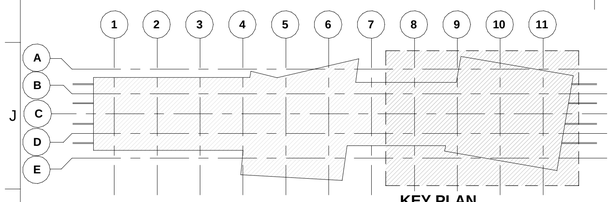
ME50	OTE CUTOUT	15.74 m²
EL15	ELECTRICAL VENTILATION	0.84 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	1.47 m²
-	PLATFORM	1,268.35 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



1 PLATFORM LEVEL PLAN (3 OF 3)

3003 Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **PLATFORM LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - PT - DRP - 3003

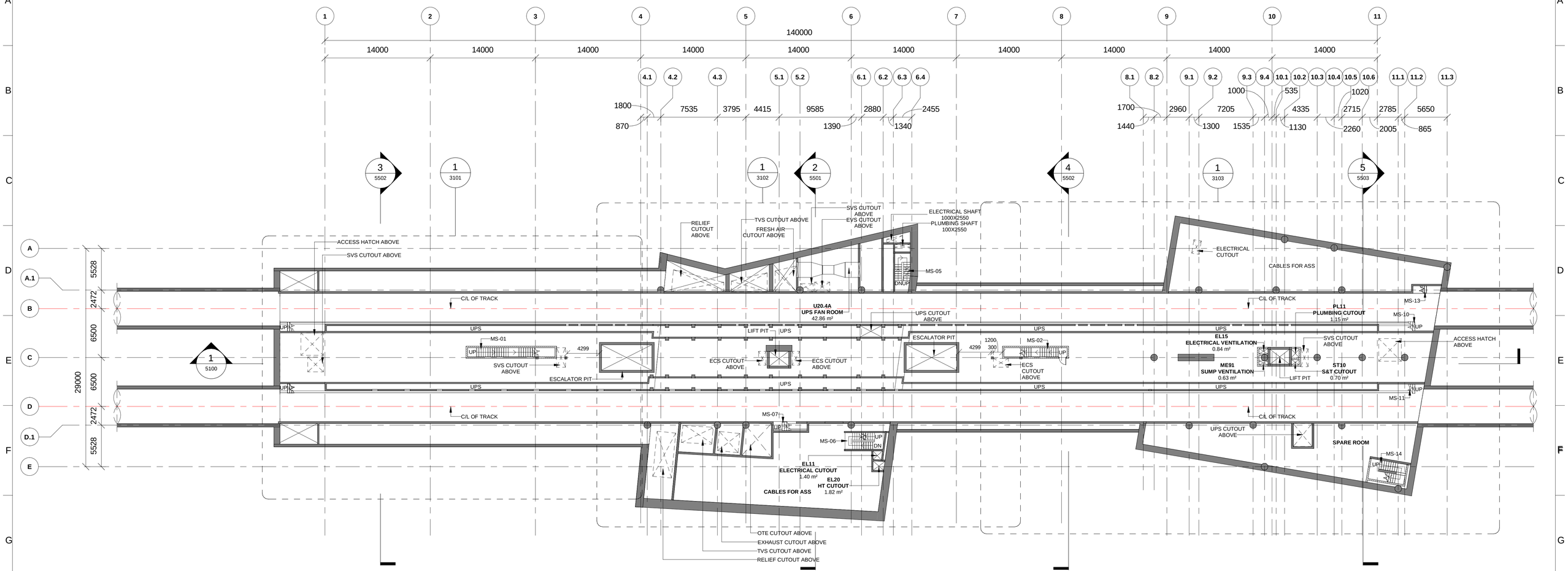
REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

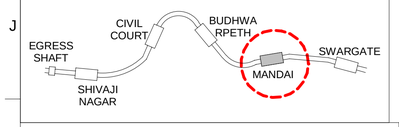
TO SWARGATE STATION



1 | RAIL LEVEL KEY PLAN

3100 | Scale: 1 : 250

KEY PLAN



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COUNTER SIGNED BY MAHA METRO

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **RAIL LEVEL KEY PLAN**

SCALE: 1:250	DATE:17.10.2020	STATUS:	REVISION NO:
			B03

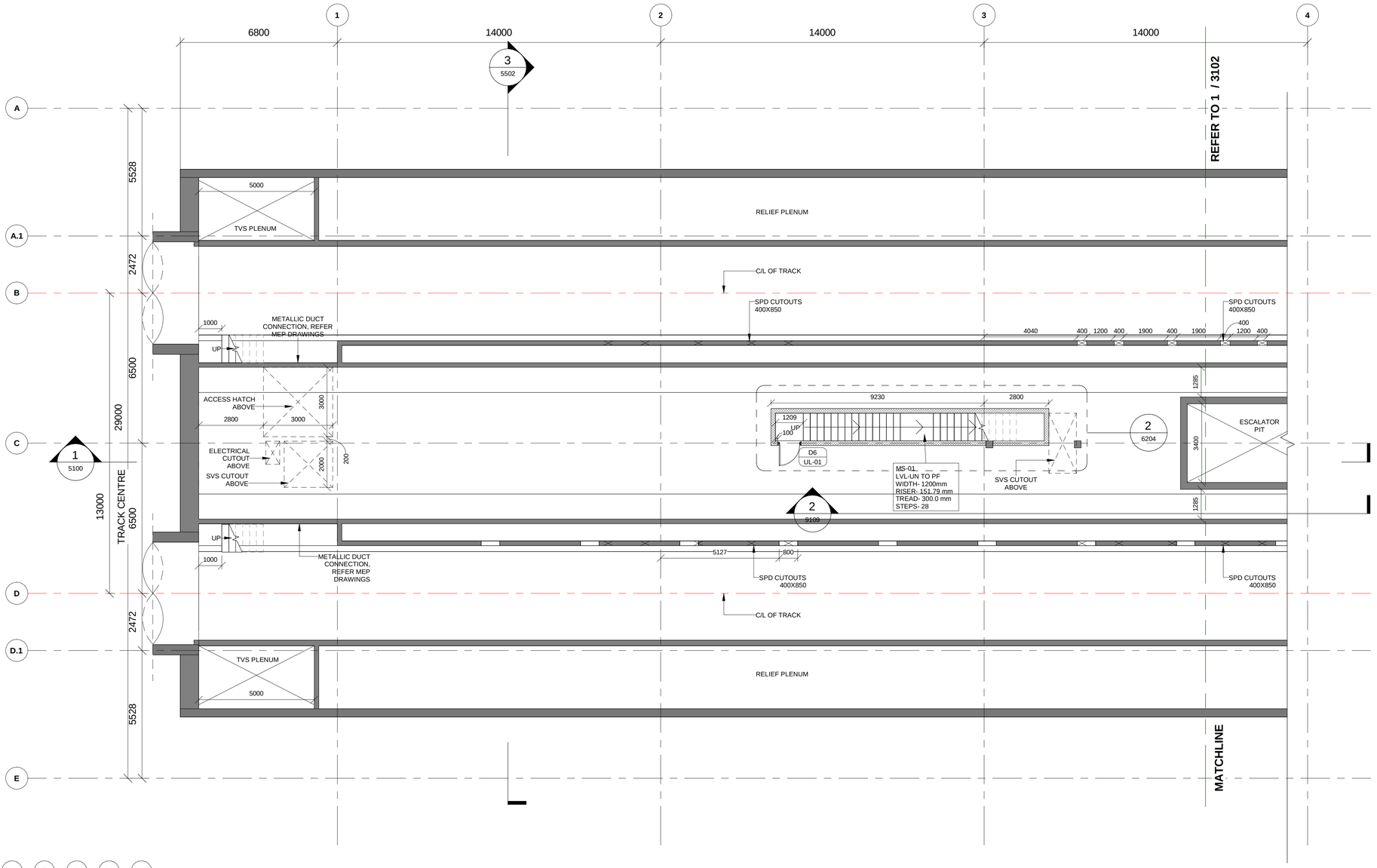
DRG NO: P4D02 - ACM - AR - PRM - MNA - RA - DRP - 3100

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



KEY PLAN

1 | RAIL LEVEL PLAN (1 OF 3)

3101 | Scale: 1 : 100

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

MATCHLINE

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N.I.F.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **RAIL LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - RA - DRP - 3101

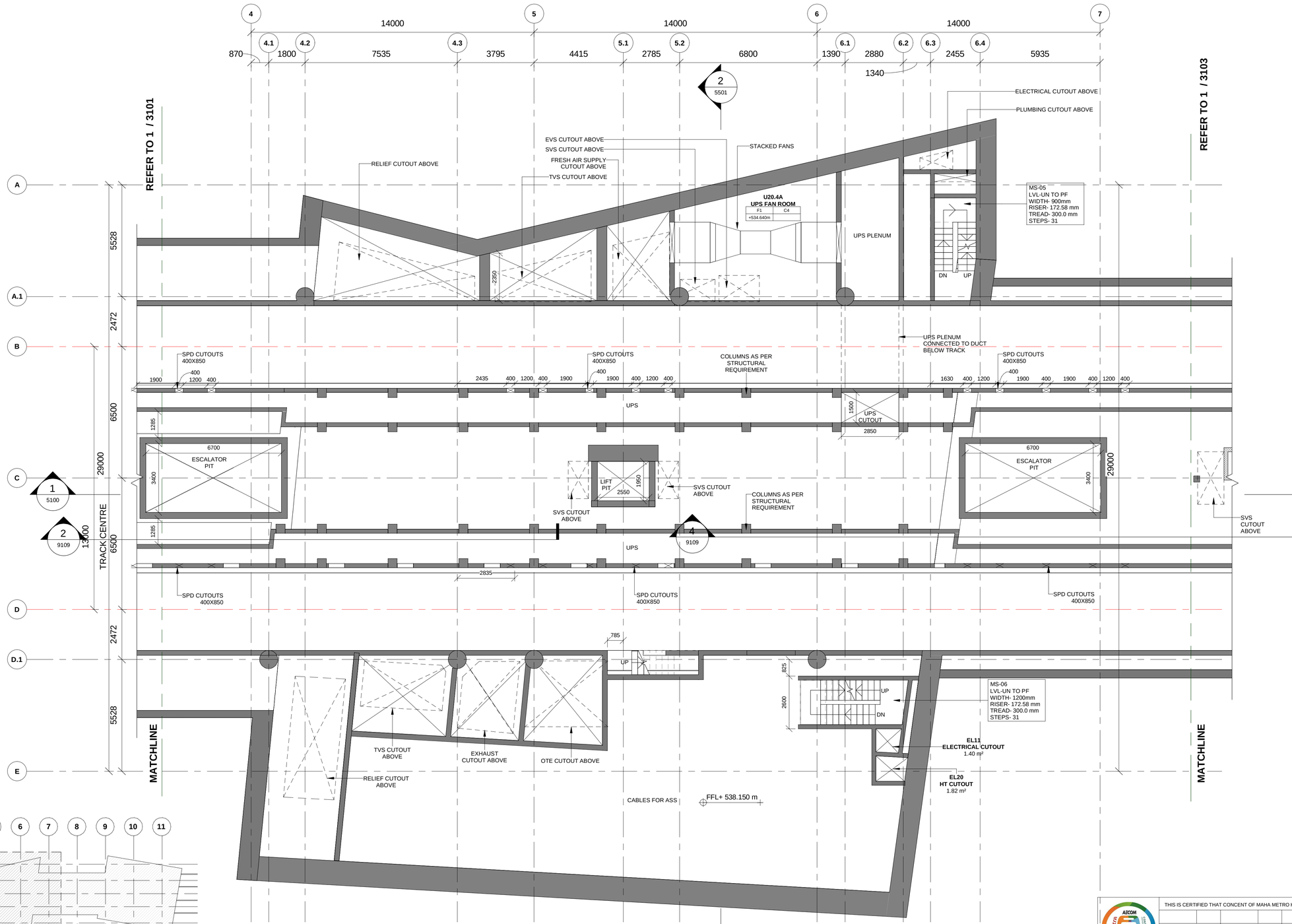
REVISION NO: B03

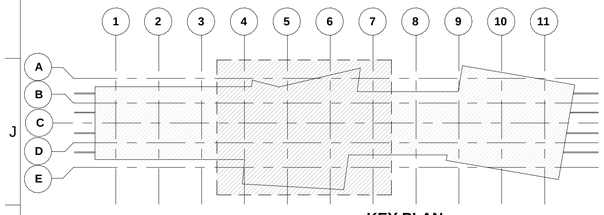
ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION





KEY PLAN

1 | RAIL LEVEL PLAN (2 OF 3)

3102 | Scale: 1 : 100

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **RAIL LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - RA - DRP - 3102

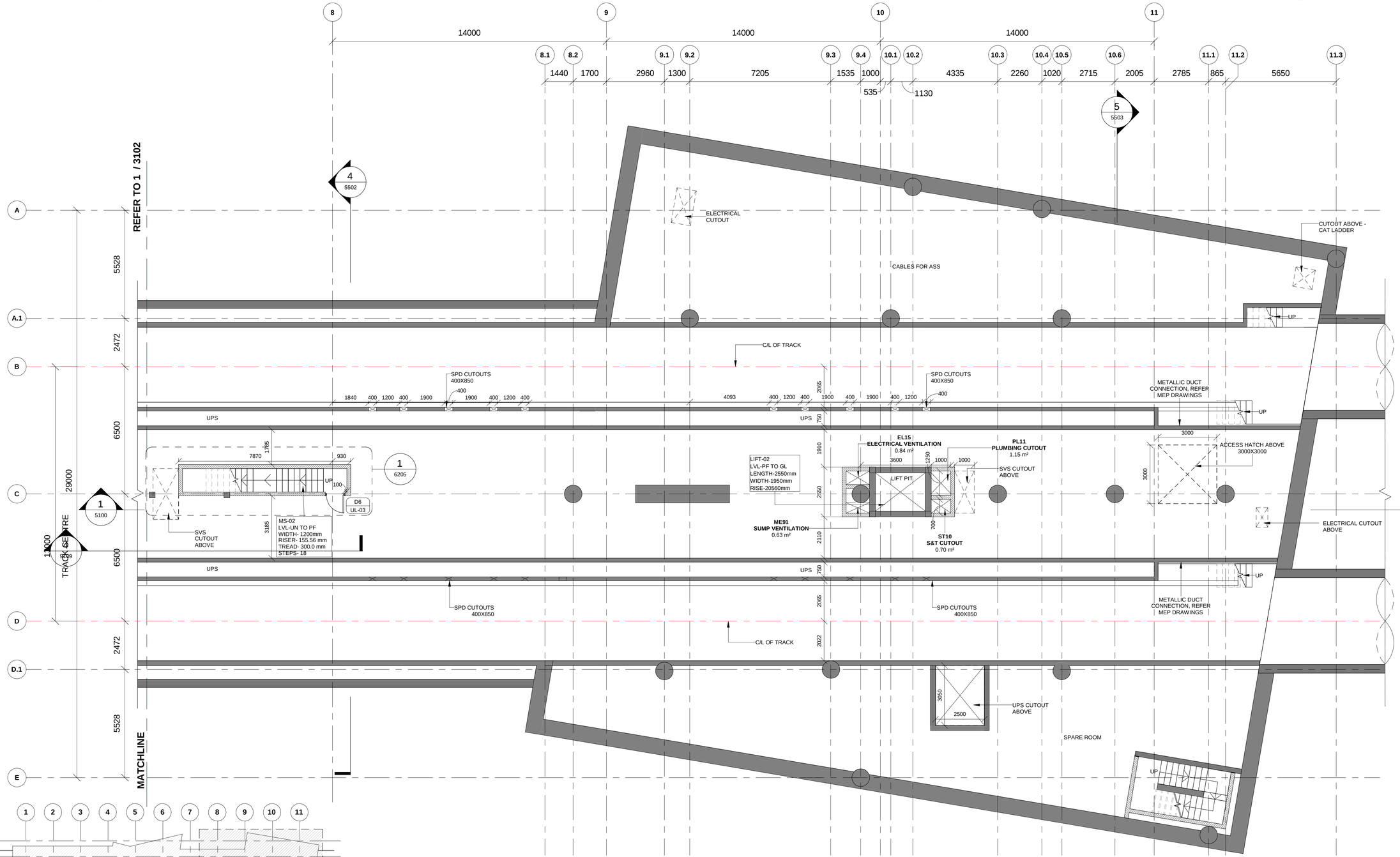
REVISION NO: B03

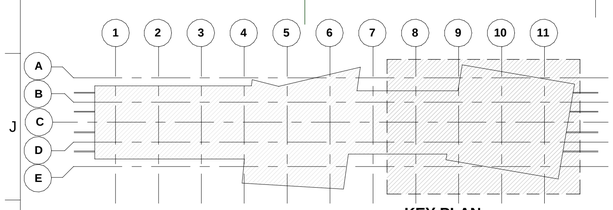
ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION





KEY PLAN

1 | **RAIL LEVEL PLAN (3 OF 3)**

3103 | Scale: 1 : 100

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **RAIL LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - RA - DRP - 3103

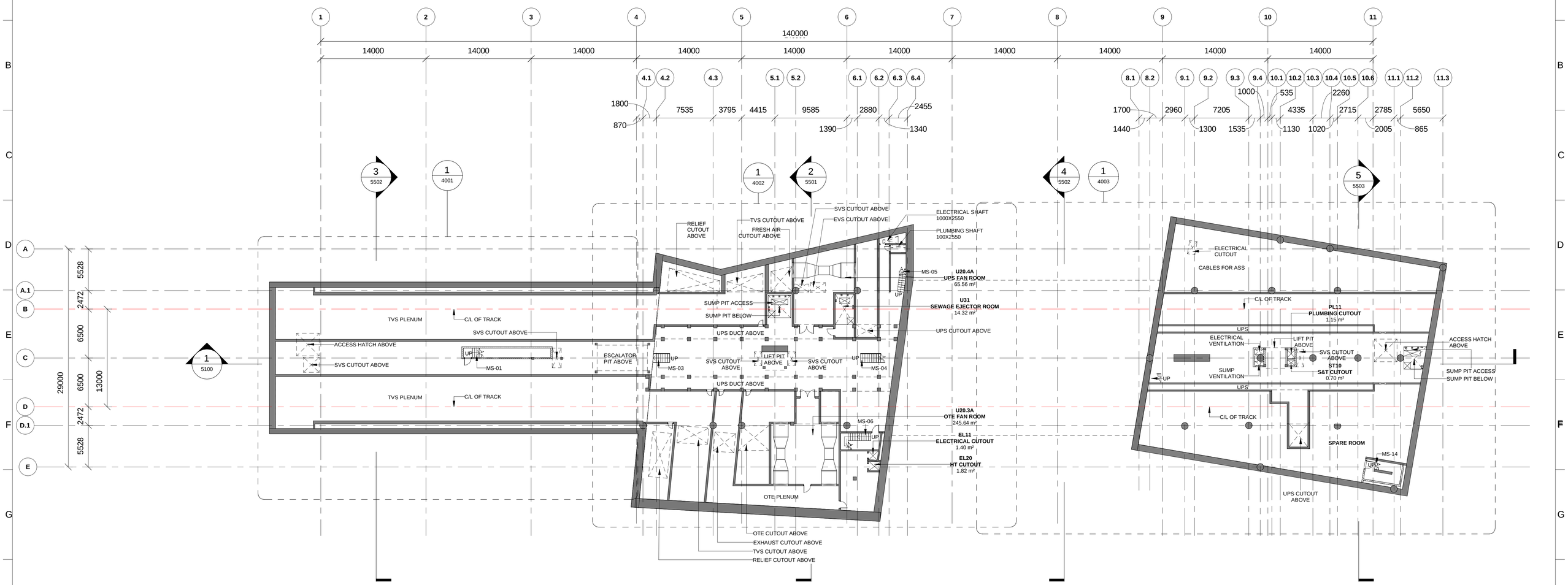
REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION



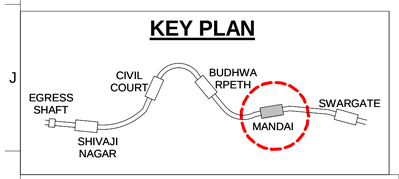
1 UNDERCROFT LEVEL KEY PLAN

4000 Scale: 1 : 250

ROOM SCHEDULE- UNDERCROFT

Number	Name	Area
U31	SEWAGE EJECTOR ROOM	14.32 m²
U20.4A	UPS FAN ROOM	65.56 m²
U20.3A	OTE FAN ROOM	245.64 m²
ST-06	STAIRCASE	12.24 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.15 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
MS-02	STAIRCASE	10.08 m²
MS-01	STAIRCASE	13.96 m²
EL20	HT CUTOUT	1.82 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	4.99 m²
-	STAIRCASE	11.41 m²
-	PLUMBING SHAFT	2.06 m²
-	ELECTRICAL CUTOUT	3.76 m²
-	SPARE ROOM	34.38 m²

KEY PLAN



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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
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DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **UNDERCROFT LEVEL KEY PLAN**

SCALE: 1:250 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - UL - DRP - 4000

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

ROOM SCHEDULE- UNDERCROFT

Number	Name	Area
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U20.4A	UPS FAN ROOM	65.56 m²
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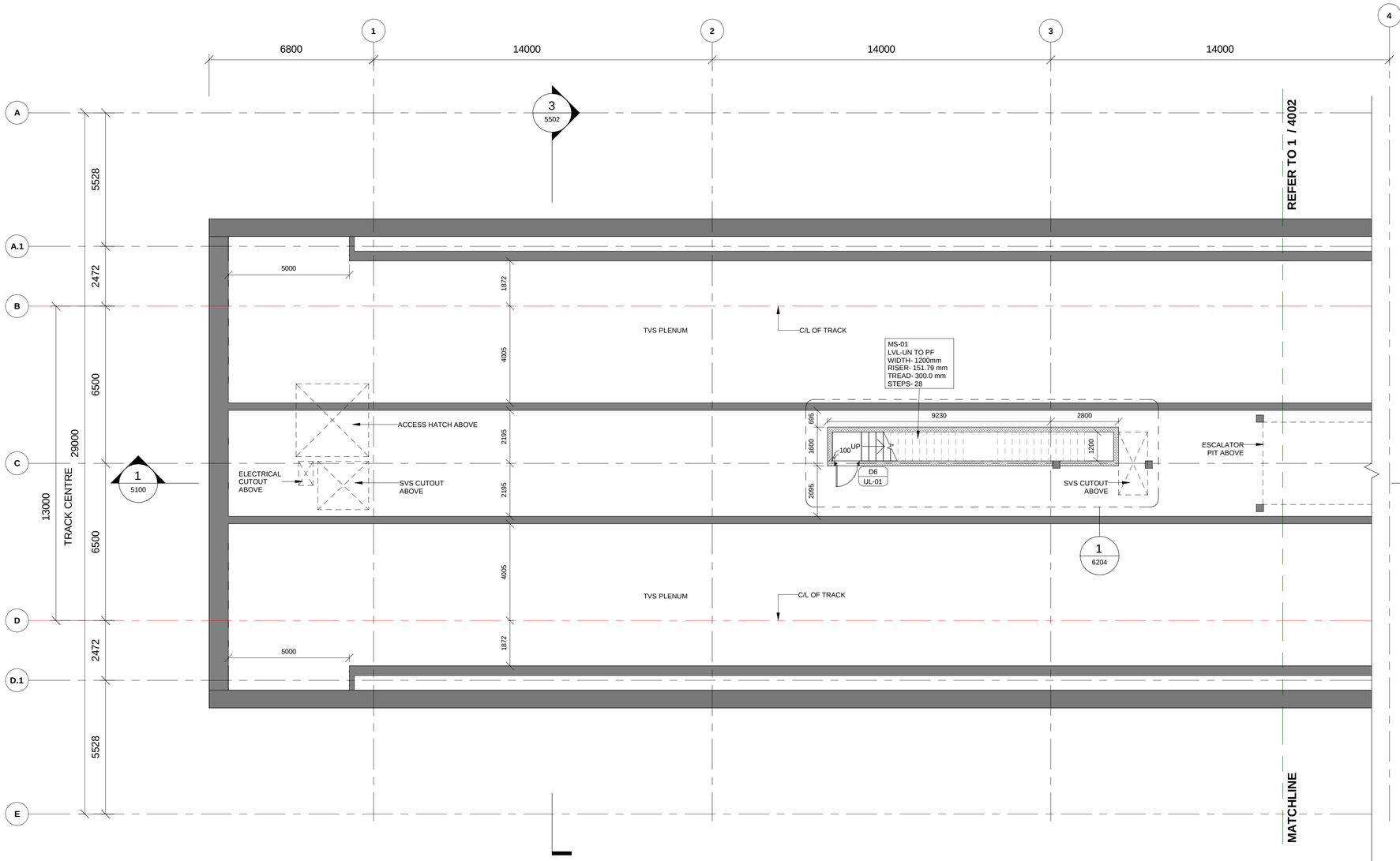
MS-01	STAIRCASE	13.96 m²
EL20	HT CUTOUT	1.82 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	4.99 m²
-	STAIRCASE	11.41 m²
-	PLUMBING SHAFT	2.06 m²
-	ELECTRICAL CUTOUT	3.76 m²
-	SPARE ROOM	34.38 m²

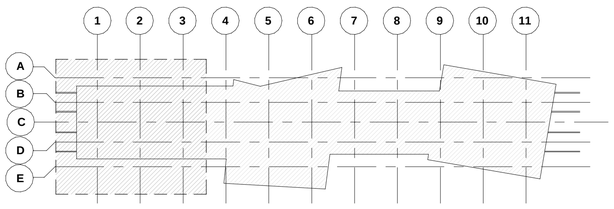


Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



KEY PLAN

1 UNDERCROFT LEVEL PLAN (1 OF 3)

4001 Scale: 1 : 100

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY.ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNEMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
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11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **UNDERCROFT LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - UL - DRP - 4001

REVISION NO: B03

ARCHITECTURE

plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 4001

REFER TO 1 / 4003

MATCHLINE

MATCHLINE

UP

TRACK CENTRE

RELIEF CUTOUT ABOVE

EVS CUTOUT ABOVE

SVS CUTOUT ABOVE

FRESH AIR SUPPLY CUTOUT ABOVE

TVS CUTOUT ABOVE

STACKED FANS

ELECTRICAL CUTOUT ABOVE

PLUMBING CUTOUT ABOVE

SUMP PIT ACCESS

SUMP PIT BELOW 3600MM DEEP

C/L OF TRACK

TVS PLENUM

UPS DUCT ABOVE

SEWAGE PIT ACCESS

SEWAGE PIT BELOW

UPS CUTOUT ABOVE

ESCALATOR PIT ABOVE

FFL+ 534.640 m

SVS CUTOUT ABOVE

LIFT PIT ABOVE

SVS CUTOUT ABOVE

EXHAUST CUTOUT ABOVE

OTE CUTOUT ABOVE

TVS CUTOUT ABOVE

OTE PLENUM

RELIEF CUTOUT ABOVE

U20.4A
UPS FAN ROOM
F1 C4
+534.640m

U31
SEWAGE EJECTOR ROOM
F1 C4
+534.640m

U20.3A
OTE FAN ROOM
F1 C4
+534.640m

MS-05
LVL-UN TO PF
WIDTH- 900mm
RISER- 172.58 mm
TREAD- 300.0 mm
STEPS- 31

MS-04
LVL-UN TO BS
WIDTH- 1200mm
RISER- 166.67 mm
TREAD- 300.0 mm
STEPS- 15

MS-06
LVL-UN TO PF
WIDTH- 1200mm
RISER- 172.58 mm
TREAD- 300.0 mm
STEPS- 31

EL11
ELECTRICAL CUTOUT
1.40 m²

EL20
HT CUTOUT
1.82 m²

ROOM SCHEDULE- UNDERCROFT

Number	Name	Area
U31	SEWAGE EJECTOR ROOM	14.32 m²
U20.4A	UPS FAN ROOM	65.56 m²
U20.3A	OTE FAN ROOM	245.64 m²
ST-06	STAIRCASE	12.24 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.15 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
MS-02	STAIRCASE	10.08 m²
MS-01	STAIRCASE	13.96 m²
EL20	HT CUTOUT	1.82 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	4.99 m²
-	STAIRCASE	11.41 m²
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Door Schedule

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D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEY PLAN

1 | UNDERCROFT LEVEL PLAN (2 OF 3)

4002 | Scale: 1 : 100

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		REVIEWED BY	APPROVED BY
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **UNDERCROFT LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - UL - DRP - 4002

REVISION NO: B03

ARCHITECTURE

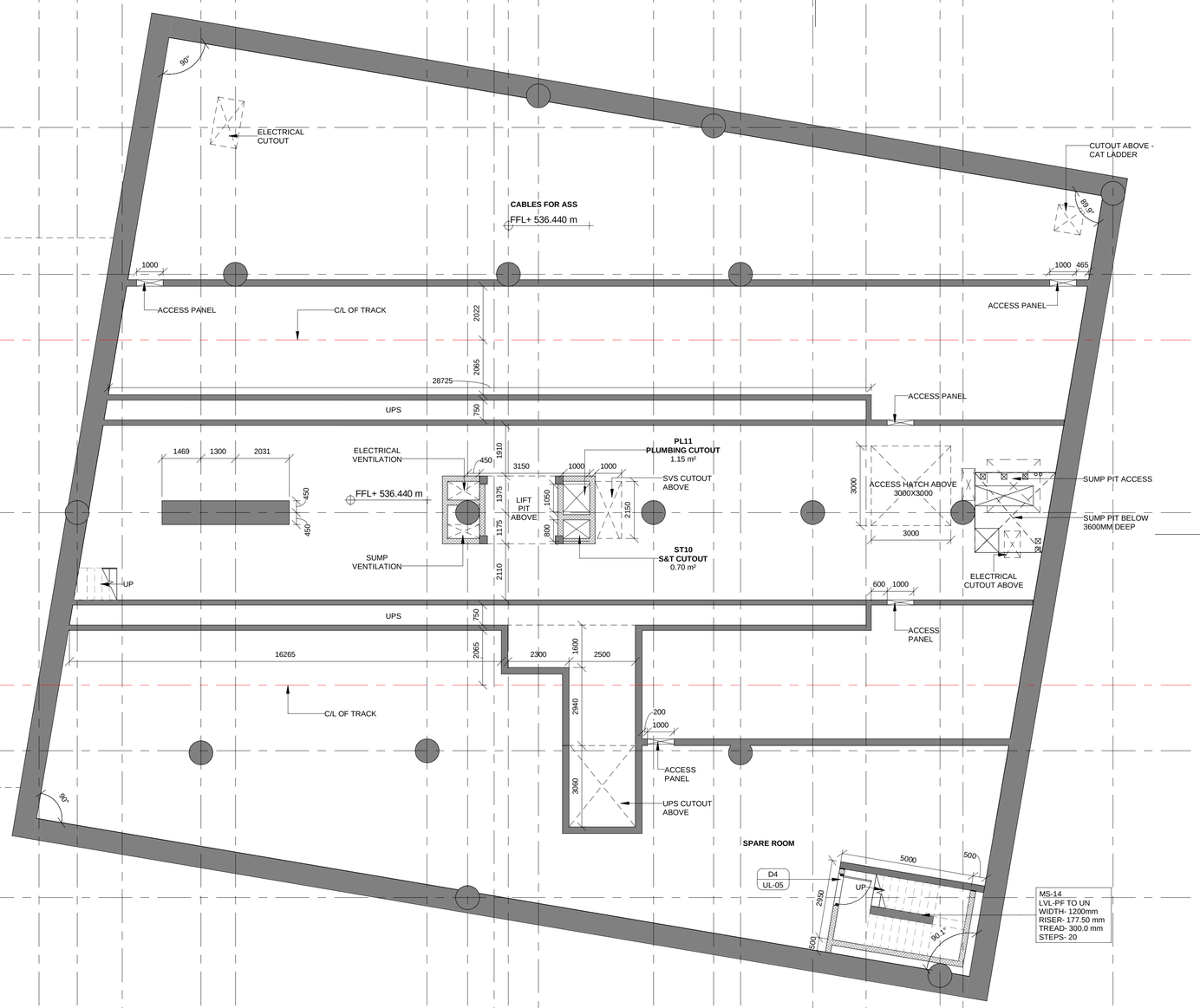
plot scale 50mm

TO SHIVAJI STATION

TO SWARGATE STATION

REFER TO 1 / 4002

MATCHLINE



ROOM SCHEDULE- UNDERCROFT

Number	Name	Area
U31	SEWAGE EJECTOR ROOM	14.32 m²
U20.4A	UPS FAN ROOM	65.56 m²
U20.3A	OTE FAN ROOM	245.64 m²
ST-06	STAIRCASE	12.24 m²
ST10	S&T CUTOUT	0.70 m²
PL11	PLUMBING CUTOUT	1.15 m²
PL10.1	PLUMBING CUTOUT	0.82 m²
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MS-01	STAIRCASE	13.96 m²
EL20	HT CUTOUT	1.82 m²
EL11	ELECTRICAL CUTOUT	1.40 m²
EL10.1	ELECTRICAL CUTOUT	4.99 m²
-	STAIRCASE	11.41 m²
-	PLUMBING SHAFT	2.06 m²
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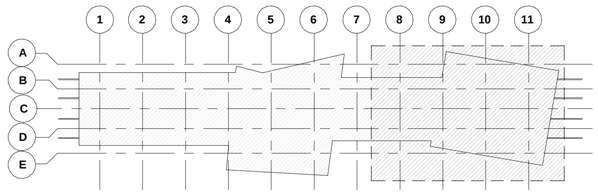
-	SPARE ROOM	34.38 m²

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



KEY PLAN

1 UNDERCROFT LEVEL PLAN (3 OF 3)

4003 Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **UNDERCROFT LEVEL PLAN (3 OF 3)**

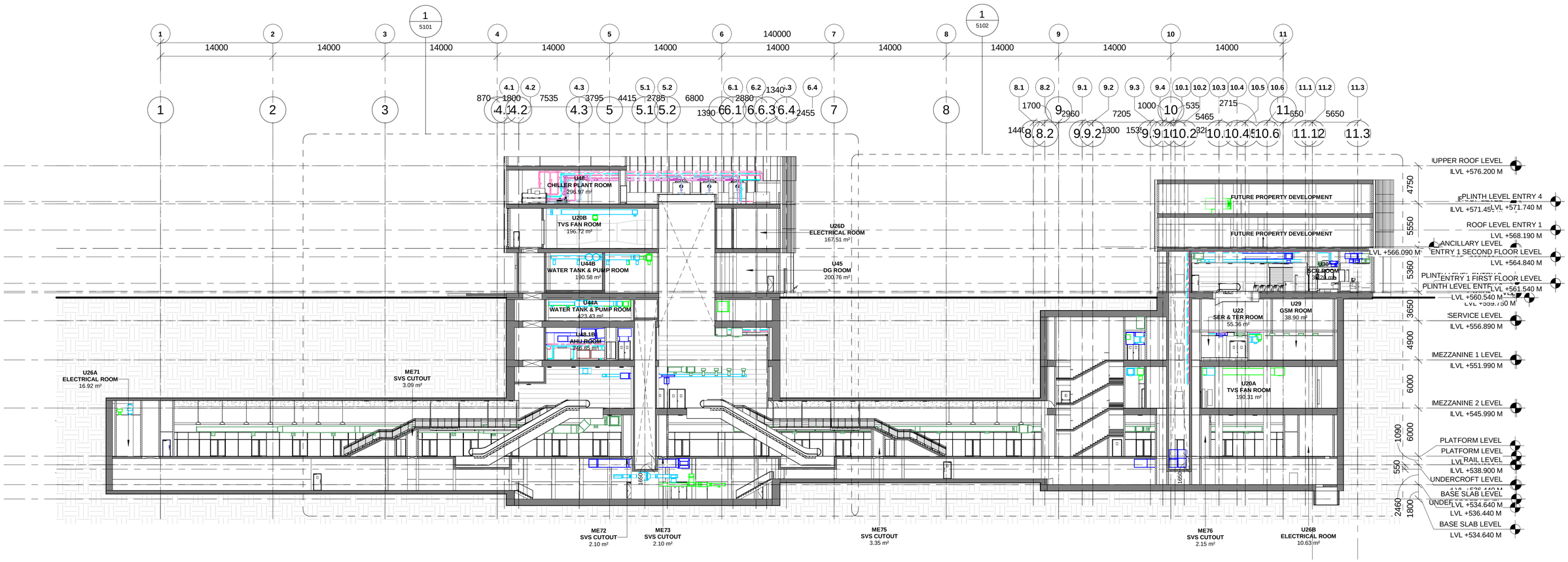
SCALE: 1:100 | DATE:17.10.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - UL - DRP - 4003

REVISION NO: B03

ARCHITECTURE

plot scale 50mm



1 | **LONG SECTION 1**
5100 | Scale: 1 : 250

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
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D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
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DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
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DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

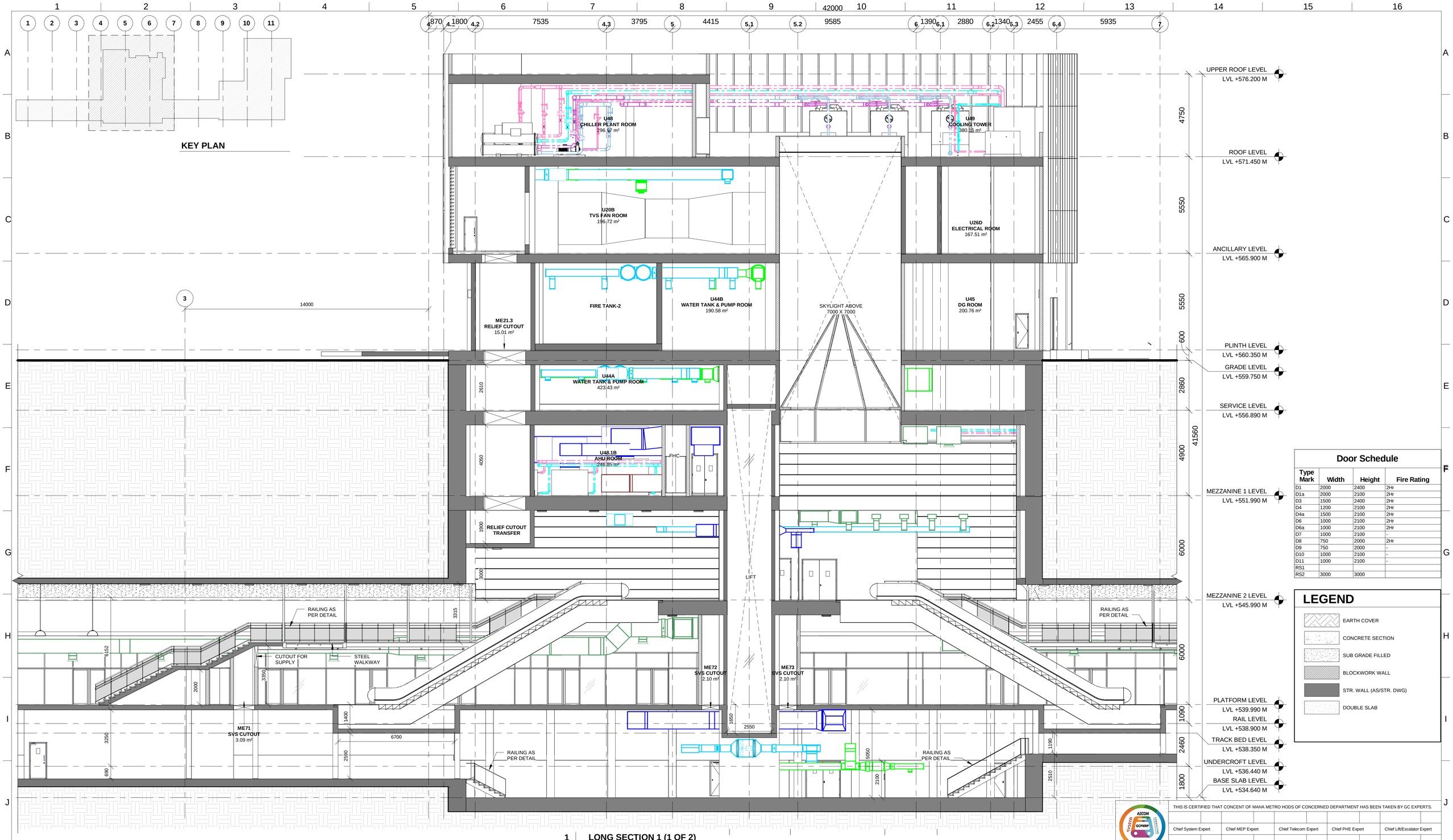
LOCATION: **MANDAI STATION**

TITLE: **LONG SECTION 1**

SCALE: 1:250	DATE:25.09.2020	STATUS:	REVISION NO:
DRG NO: P4D02 - ACM - AR - PRM - MNA - DSE - 5100			B02

ARCHITECTURE

plot scale 50mm



Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

1 LONG SECTION 1 (1 OF 2)

5101 Scale: 1 : 100

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY.ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNEMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY,AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV..... " APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

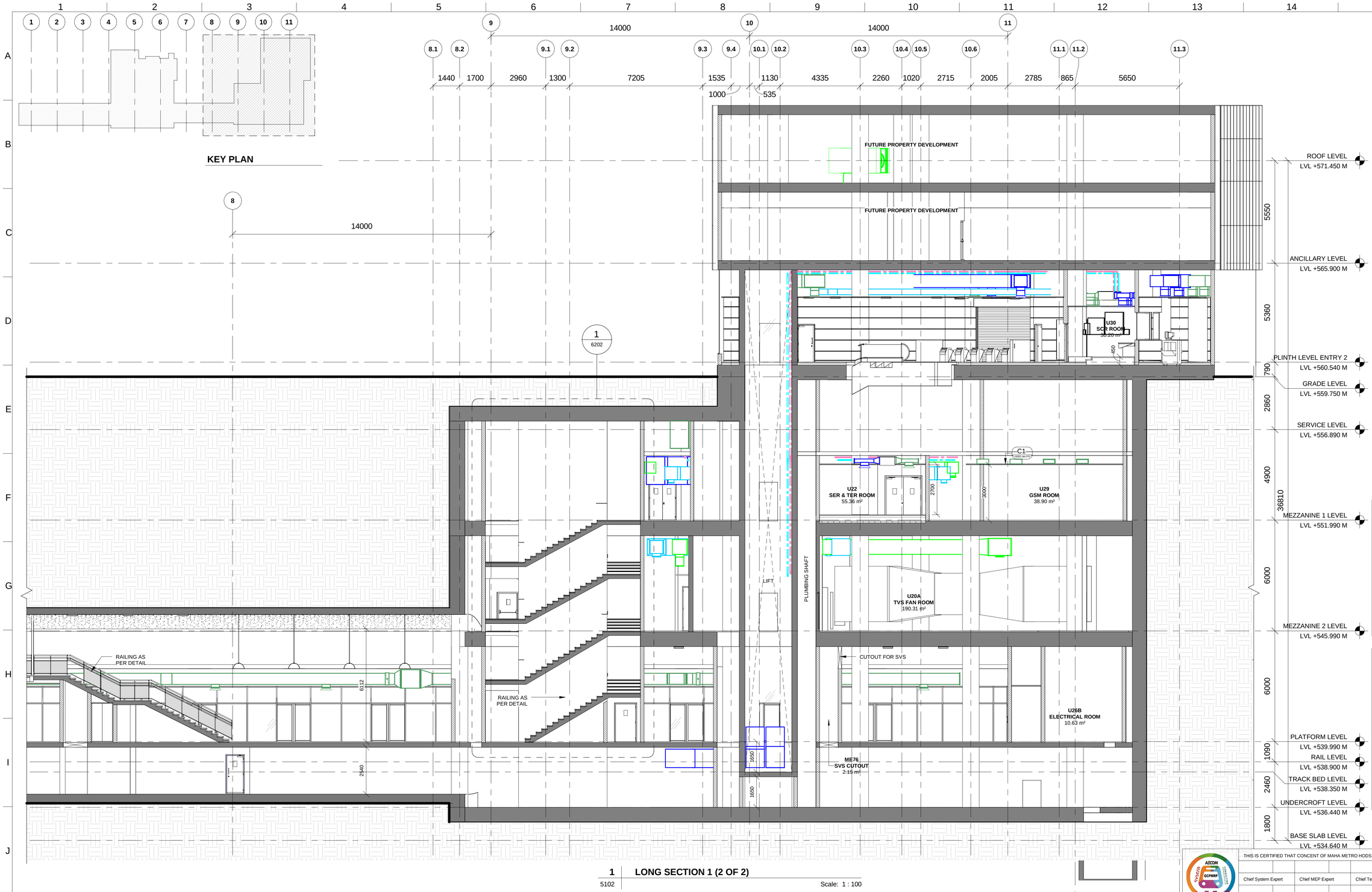
TITLE: **LONG SECTION 1 (1 OF 2)**

SCALE: 1:100 | DATE:25.09.2020 | STATUS: | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - MNA - DSE - 5101

ARCHITECTURE

plot scale 50mm



Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
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D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

1 LONG SECTION 1 (2 OF 2)
5102
Scale: 1 : 100

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE: N/A	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **LONG SECTION 1 (2 OF 2)**

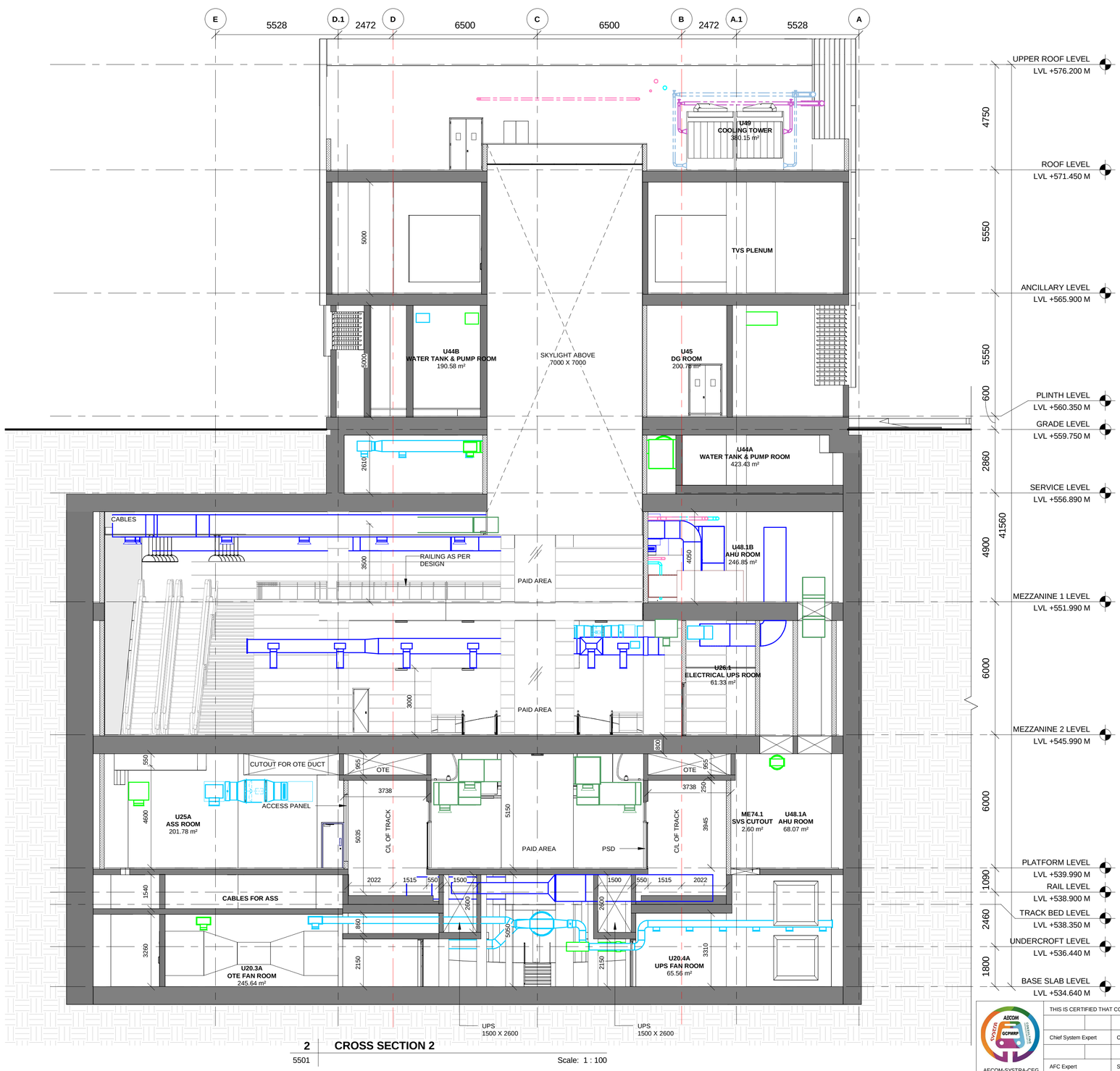
SCALE: 1:100 | DATE:25.09.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - DSE - 5102

REVISION NO: B02

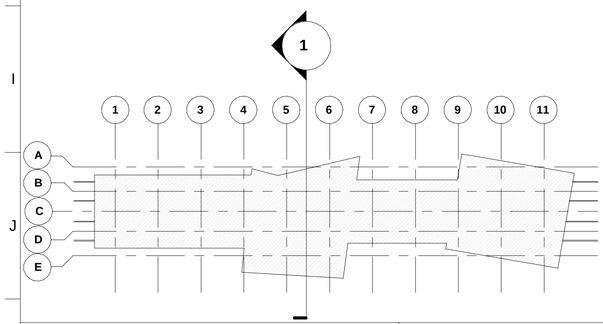
ARCHITECTURE

plot scale 50mm



2 CROSS SECTION 2

5501 Scale: 1 : 100



Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
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D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

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AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **CROSS SECTION 2**

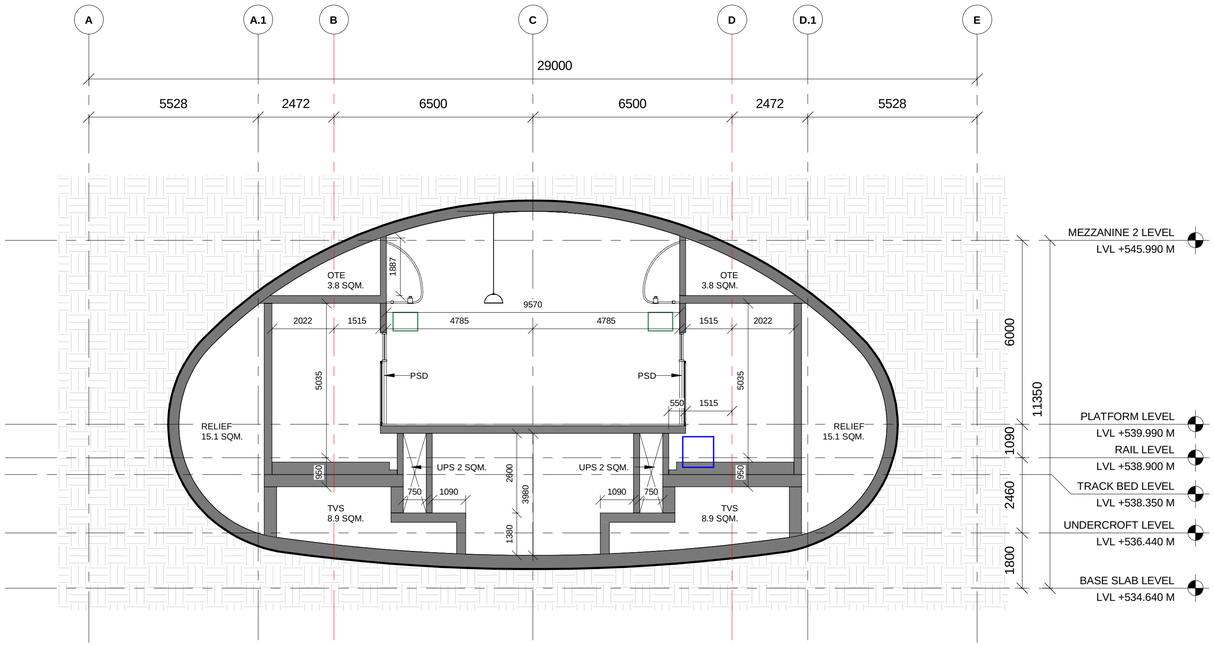
SCALE: 1:100 | DATE:25.09.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - DSE - 5501

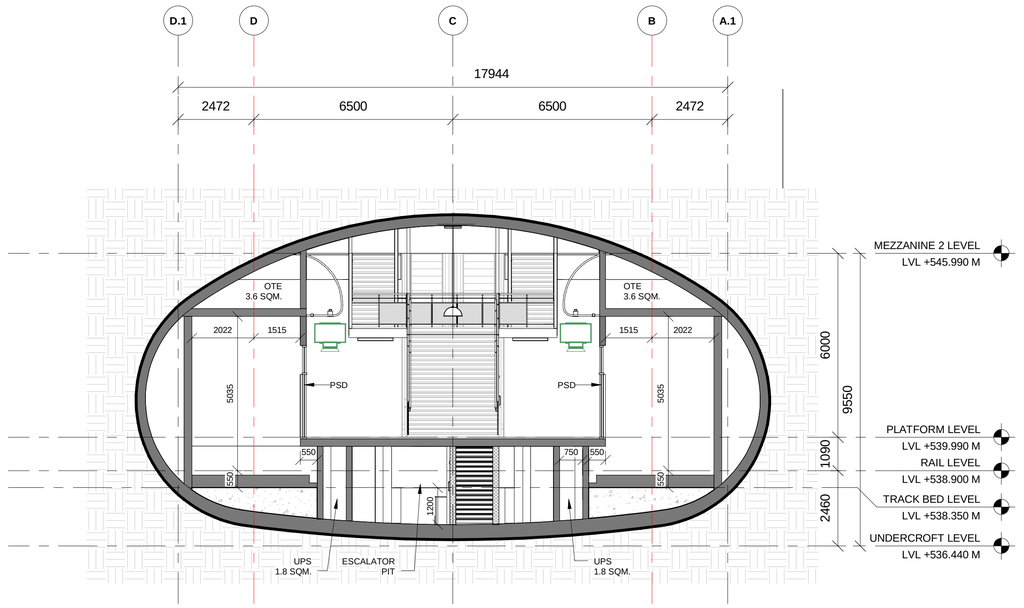
REVISION NO: B02

ARCHITECTURE

plot scale 50mm



3 | **CROSS SECTION 3**
5502 | Scale: 1 : 100



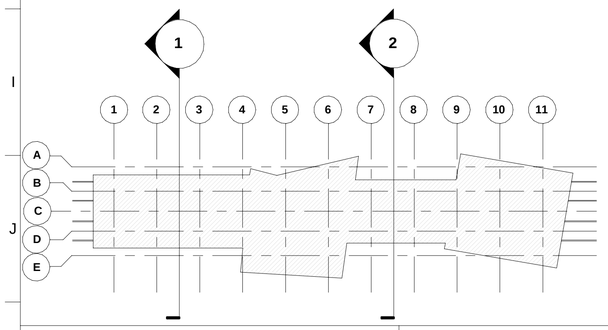
4 | **CROSS SECTION 4**
5502 | Scale: 1 : 100

Door Schedule

Type Mark	Width	Height	Fire Rating
D1	2000	2400	2Hr
D1a	2000	2100	2Hr
D3	1500	2400	2Hr
D4	1200	2100	2Hr
D4a	1500	2100	2Hr
D6	1000	2100	2Hr
D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB



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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **CROSS SECTION 3 & 4**

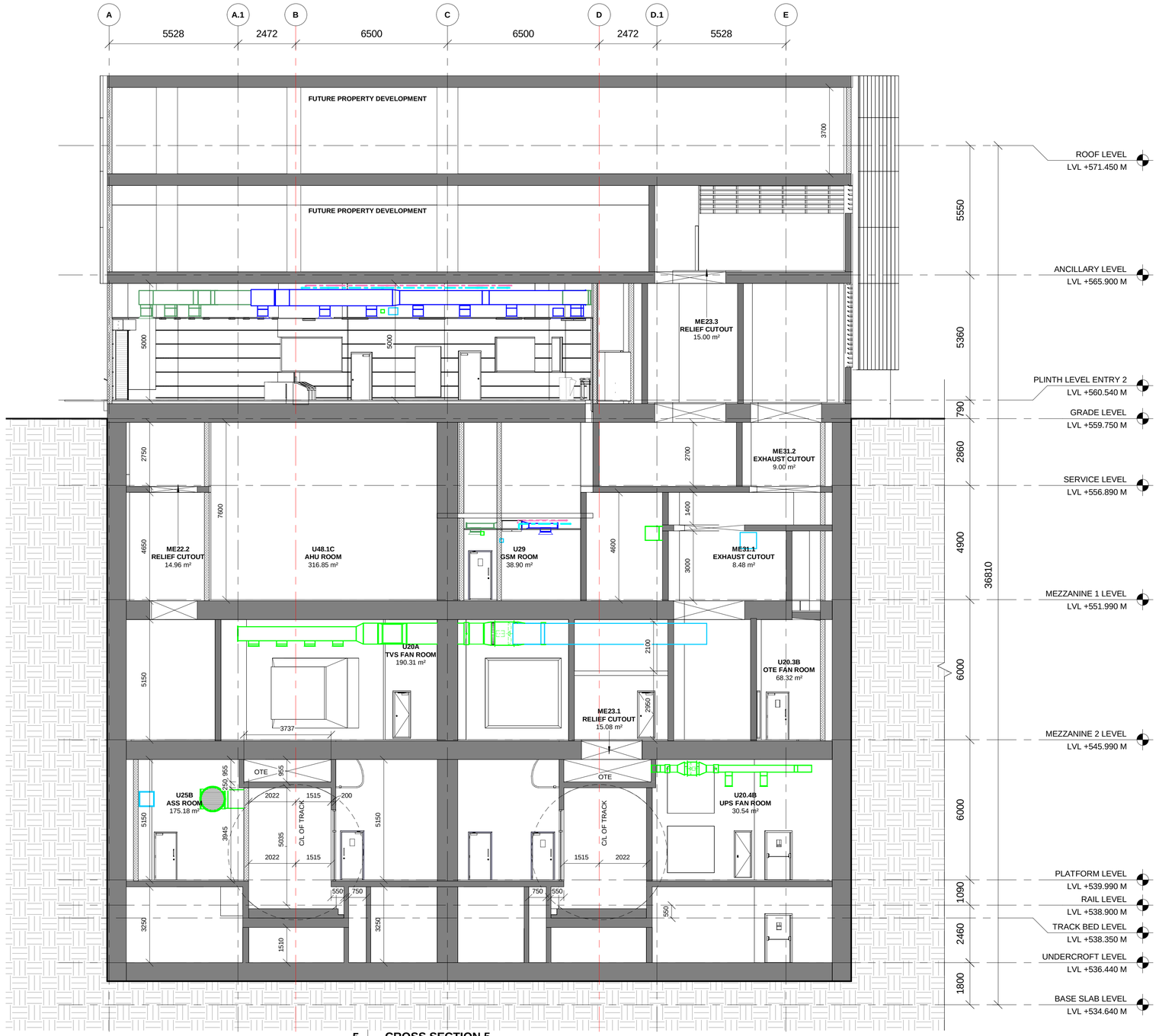
SCALE: 1:100 | DATE:25.09.2020 | STATUS:

DRG NO: P4D02 - ACM - AR - PRM - MNA - DSE - 5502

REVISION NO: B02

ARCHITECTURE

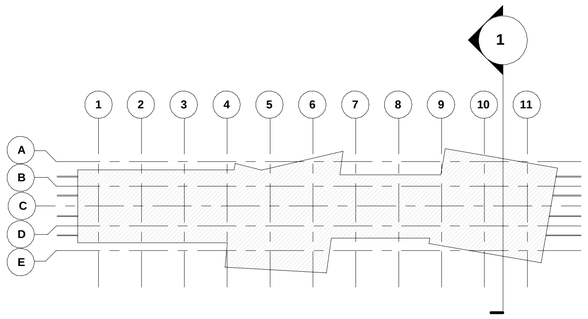
plot scale 50mm



5 CROSS SECTION 5

5503

Scale: 1 : 100



Door Schedule

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D6a	1000	2100	2Hr
D7	1000	2100	-
D8	750	2000	2Hr
D9	750	2000	-
D10	1000	2100	-
D11	1000	2100	-
RS1			
RS2	3000	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE: 08/01/2021	DATE:
NAME:Shubhi Agrawal	NAME:Pragya Khare	NAME:Navendu Pal	NAME:Sushil Verma	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **MANDAI STATION**

TITLE: **CROSS SECTION 5**

SCALE: 1:100 | DATE:25.09.2020 | STATUS:

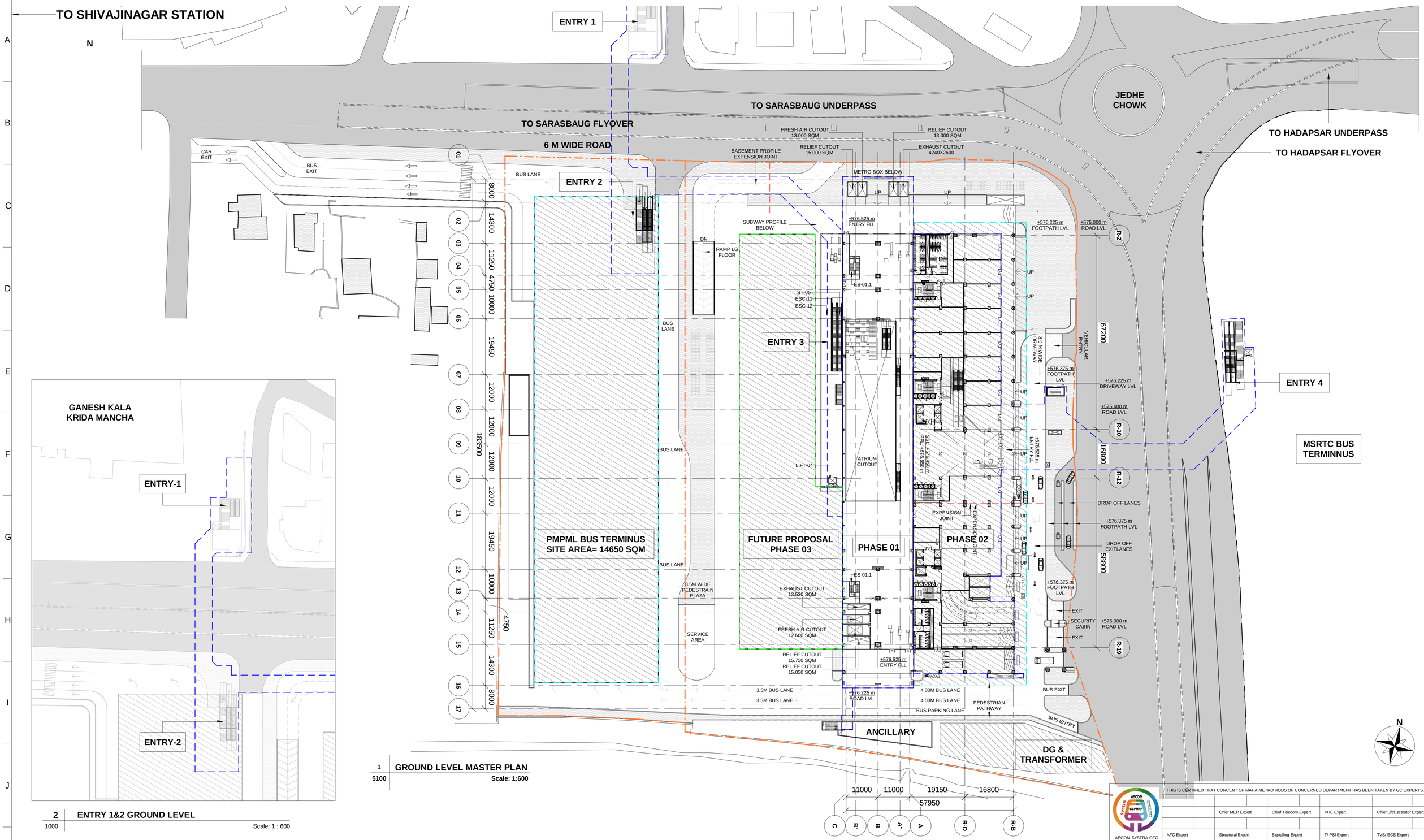
DRG NO: P4D02 - ACM - AR - PRM - MNA - DSE - 5503

REVISION NO: B02

ARCHITECTURE

PUNE METRO

plot scale 50mm



1 | 5100 **GROUND LEVEL MASTER PLAN**
Scale: 1:600

2 | 1000 **ENTRY 1&2 GROUND LEVEL**
Scale: 1 : 600

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME: N.A.	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

TITLE: **GROUND LEVEL MASTER PLAN**

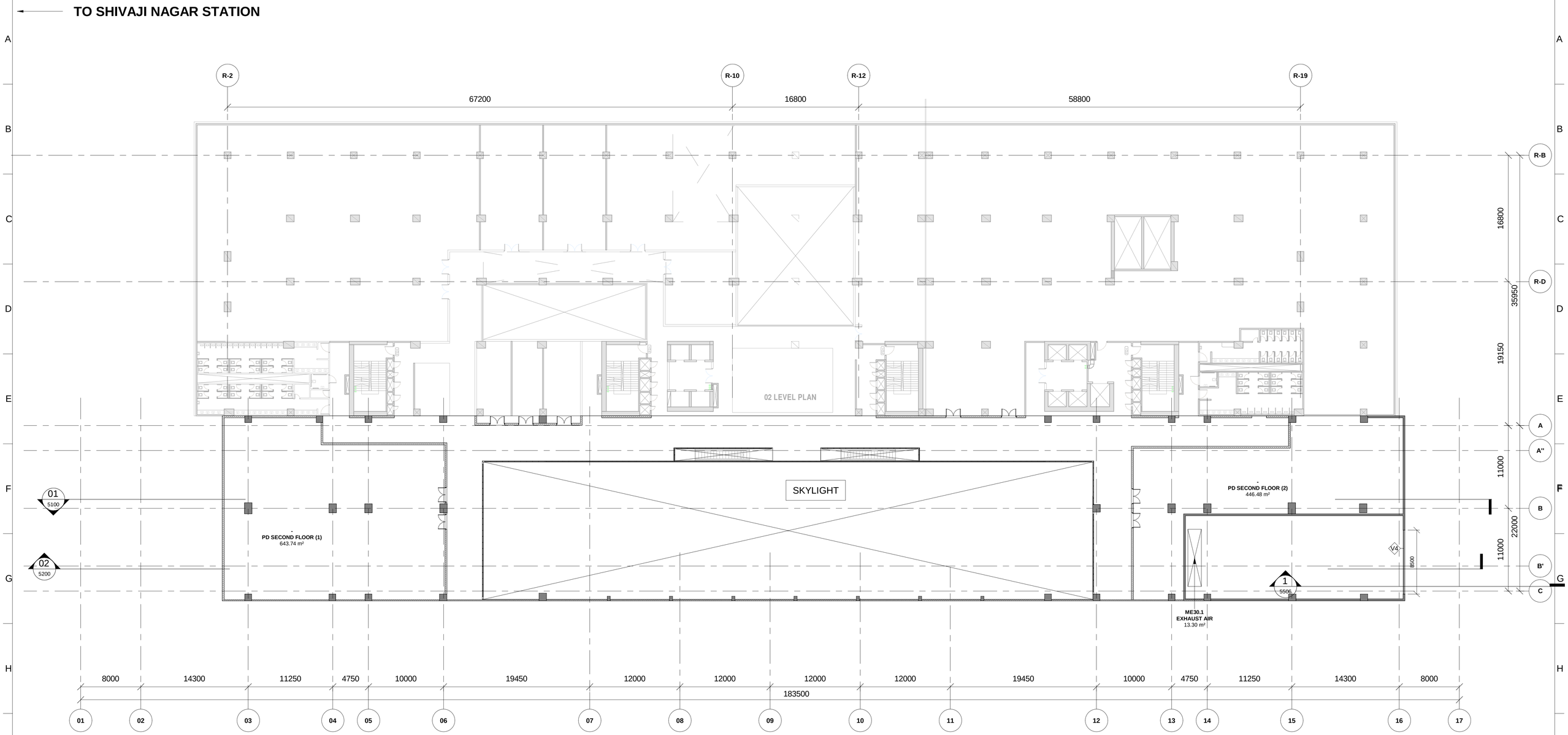
SCALE: 1:600 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B01

DRG NO: P4D02 - ACM - AR - PRM - SGT - GL - DRP - 1000

ARCHITECTURE

plot scale 50mm

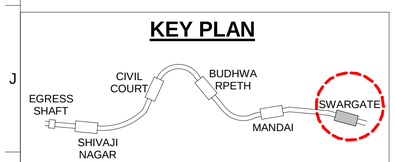
TO SHIVAJI NAGAR STATION



1 PD 2ND FLOOR LEVEL KEY PLAN

1001 Scale: 1 : 250

KEY PLAN



Louver Schedule

Mark	Length	Height	Sill Level	Level
V1	4500	3000	1900	GROUND LEVEL
V2	2925	3000	1900	GROUND LEVEL
V3	2525	3000	1900	GROUND LEVEL
V4	8500	2200	1700	

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added.	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

N.A.

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- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG

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Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert	
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

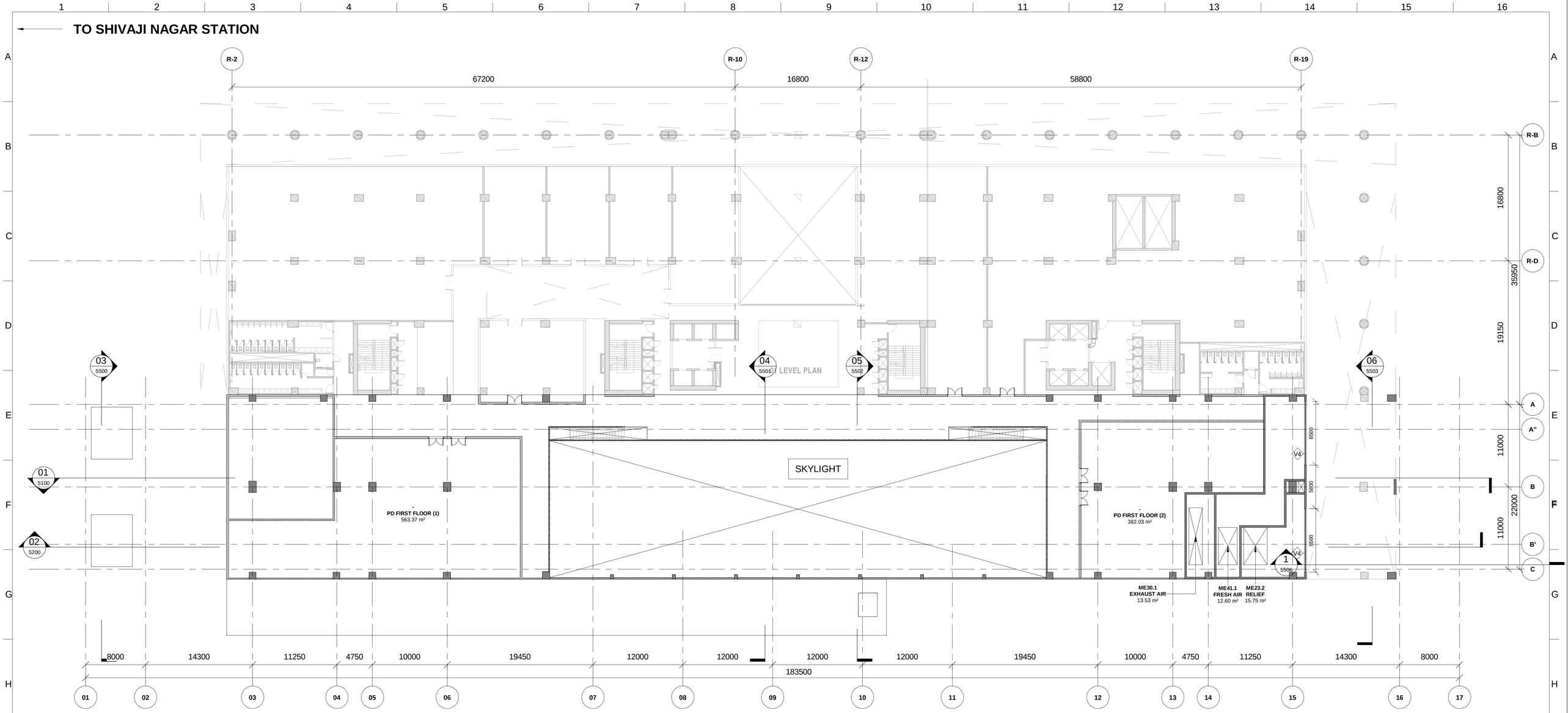
TITLE: **PD 2ND FLOOR LEVEL KEY PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B01

DRG NO: P4D02 - ACM - AR - PRM - SGT - SF - DRP - 1001

ARCHITECTURE

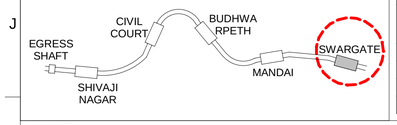
plot scale 50mm



1 PD 1ST FLOOR LEVEL KEY PLAN

1002 Scale: 1 : 250

KEY PLAN



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REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
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PROOF CONSULTANT		REVIEWED BY	APPROVED BY
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)		

N/A

- ☐ Proof checked by GC
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

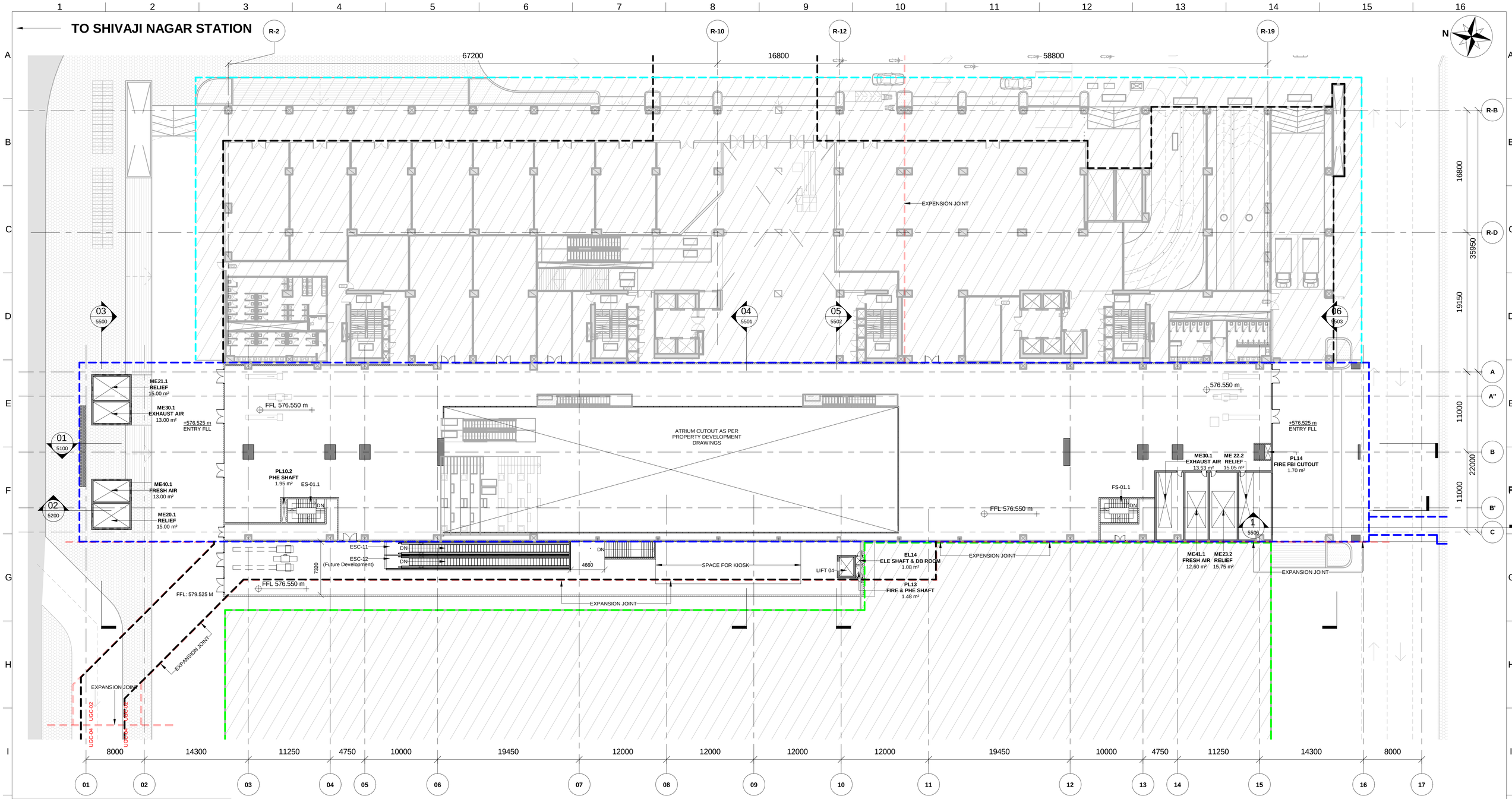
TITLE: **PD 1ST FLOOR LEVEL KEY PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B01

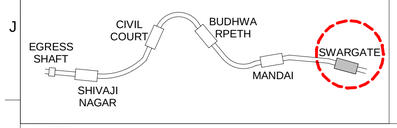
DRG NO: P4D02 - ACM - AR - PRM - SGT - FF - DRP - 1002

ARCHITECTURE

plot scale 50mm



KEY PLAN



REVISION SCHEDULE

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1 GROUND LEVEL KEY PLAN

1100 Scale: 1 : 250

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DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.I.P.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

AECOM-SYSTRA-CEG

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

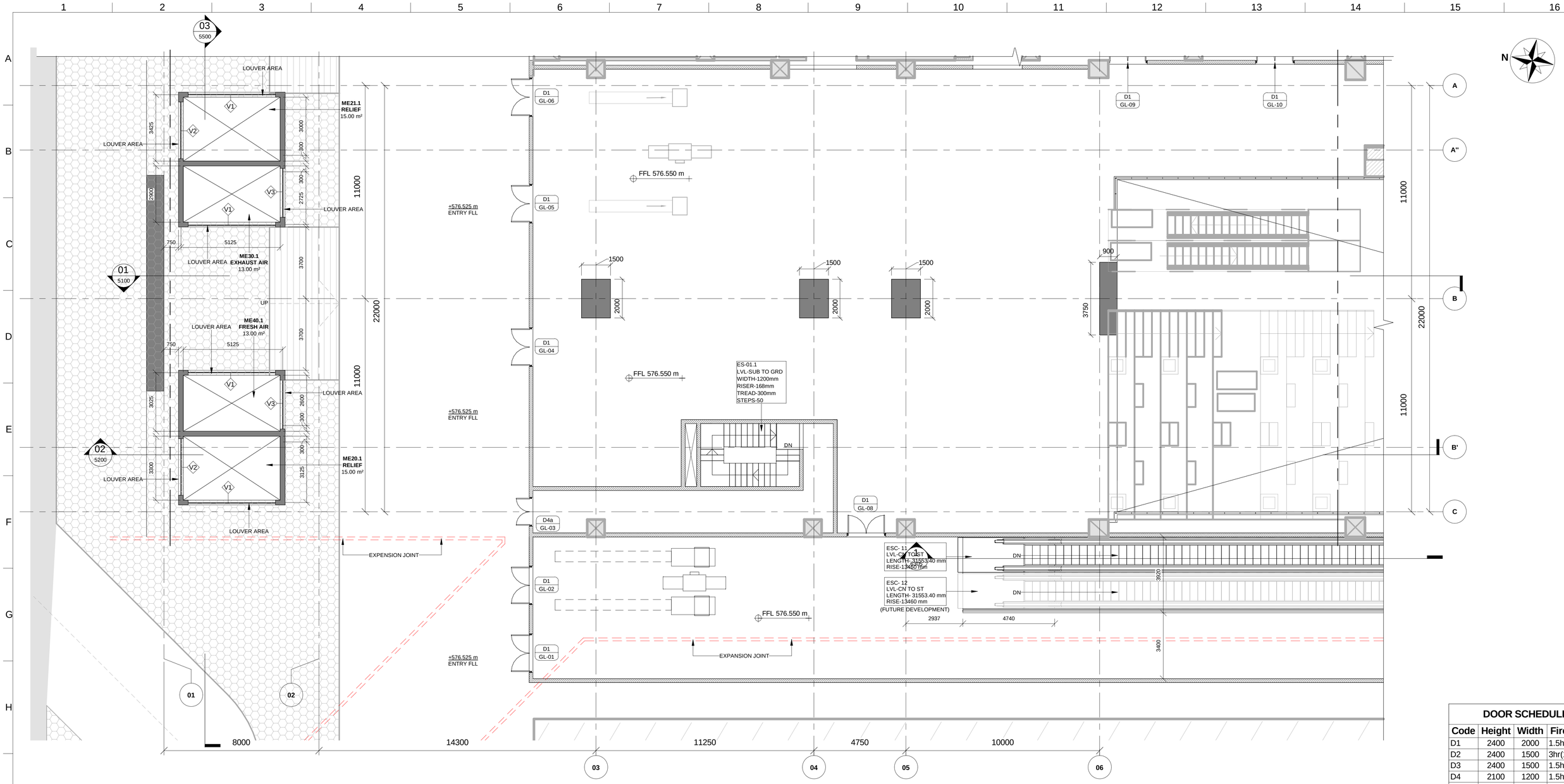
TITLE: **GROUND LEVEL KEY PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - GL - DRP - 1100

ARCHITECTURE

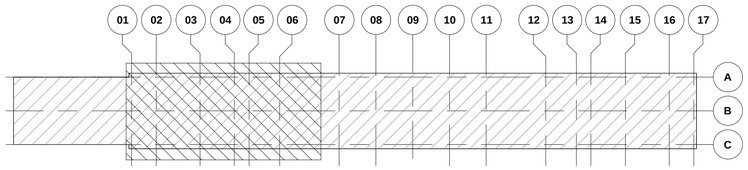
plot scale 50mm



1 GROUND LEVEL PLAN (1 OF 3)

1101 Scale: 1 : 100

KEYPLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

Louver Schedule

Mark	Length	Height	Sill Level	Level
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V2	2925	3000	1900	GROUND LEVEL
V3	2525	3000	1900	GROUND LEVEL
V4	8500	2200	1700	

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Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert / TVS/ ECS Expert

AECOM-SYSTRA-CEG

NOTES:

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13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.
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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY	APPROVED BY

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

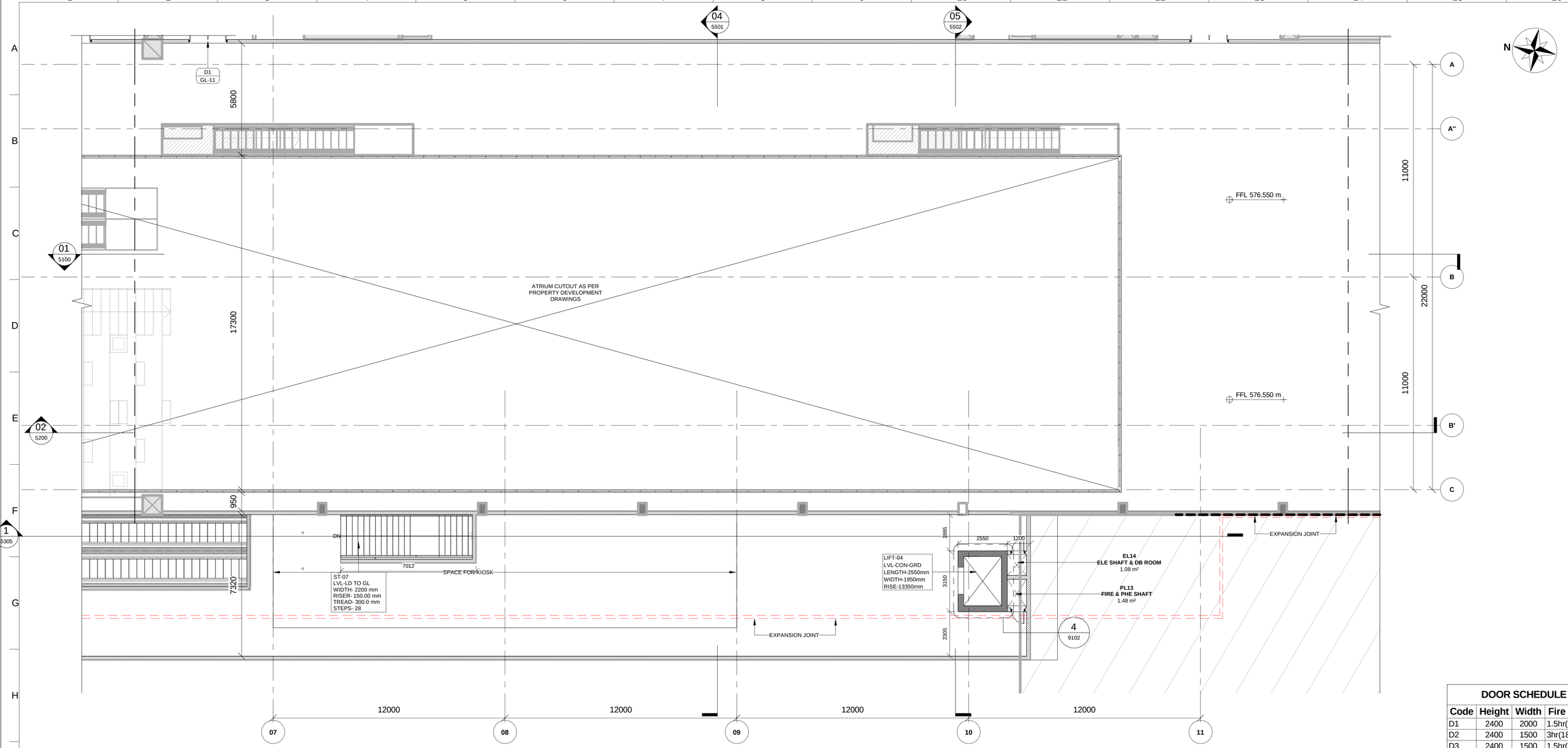
TITLE: **GROUND LEVEL PLAN (1 OF 3)**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - GL - DRP - 1101

ARCHITECTURE

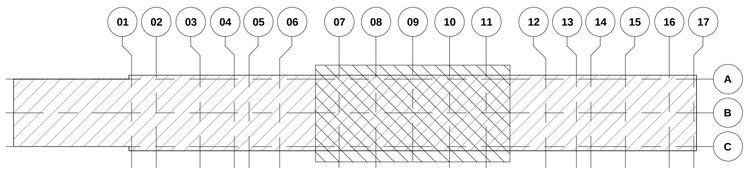
plot scale 50mm



1 GROUND LEVEL PLAN (2 OF 3)

1102 Scale: 1 : 100

KEYPLAN



DOOR SCHEDULE

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D1	2400	2000	1.5hr(90 min)
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D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
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D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

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AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

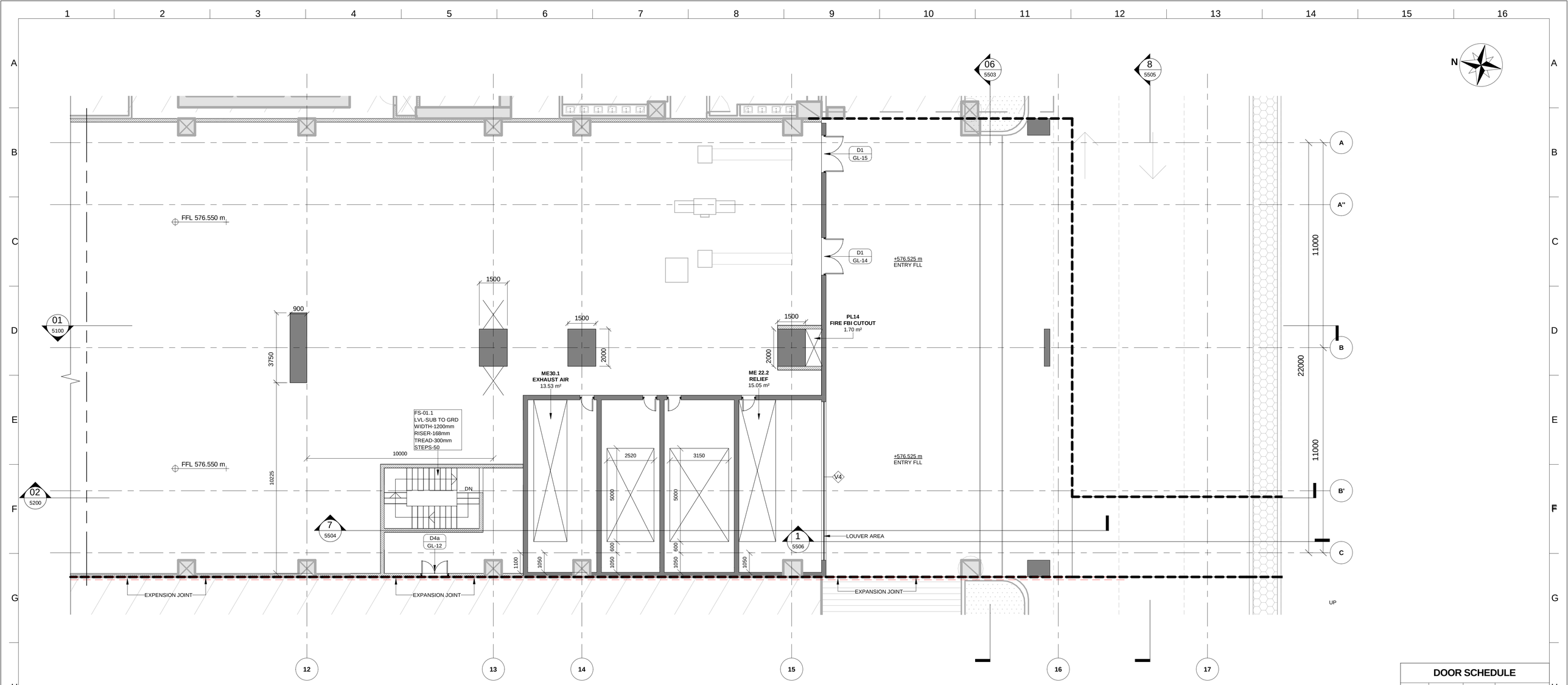
TITLE: **GROUND LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - GL - DRP - 1102

ARCHITECTURE

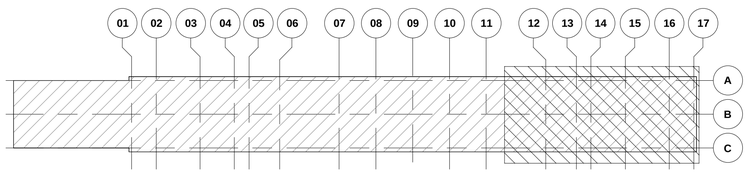
plot scale 50mm



1 **GROUND LEVEL PLAN (3 OF 3)**

1103 Scale: 1 : 100

KEYPLAN



REVISION SCHEDULE

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B03	17/03/2021	Sump pits revised & track staircase added	
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		as per Structural Requirements	
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D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
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Louver Schedule

Mark	Length	Height	Sill Level	Level
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V4	8500	2200	1700	

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:	NAME:	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
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COUNTER SIGNED BY MAHA METRO

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AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

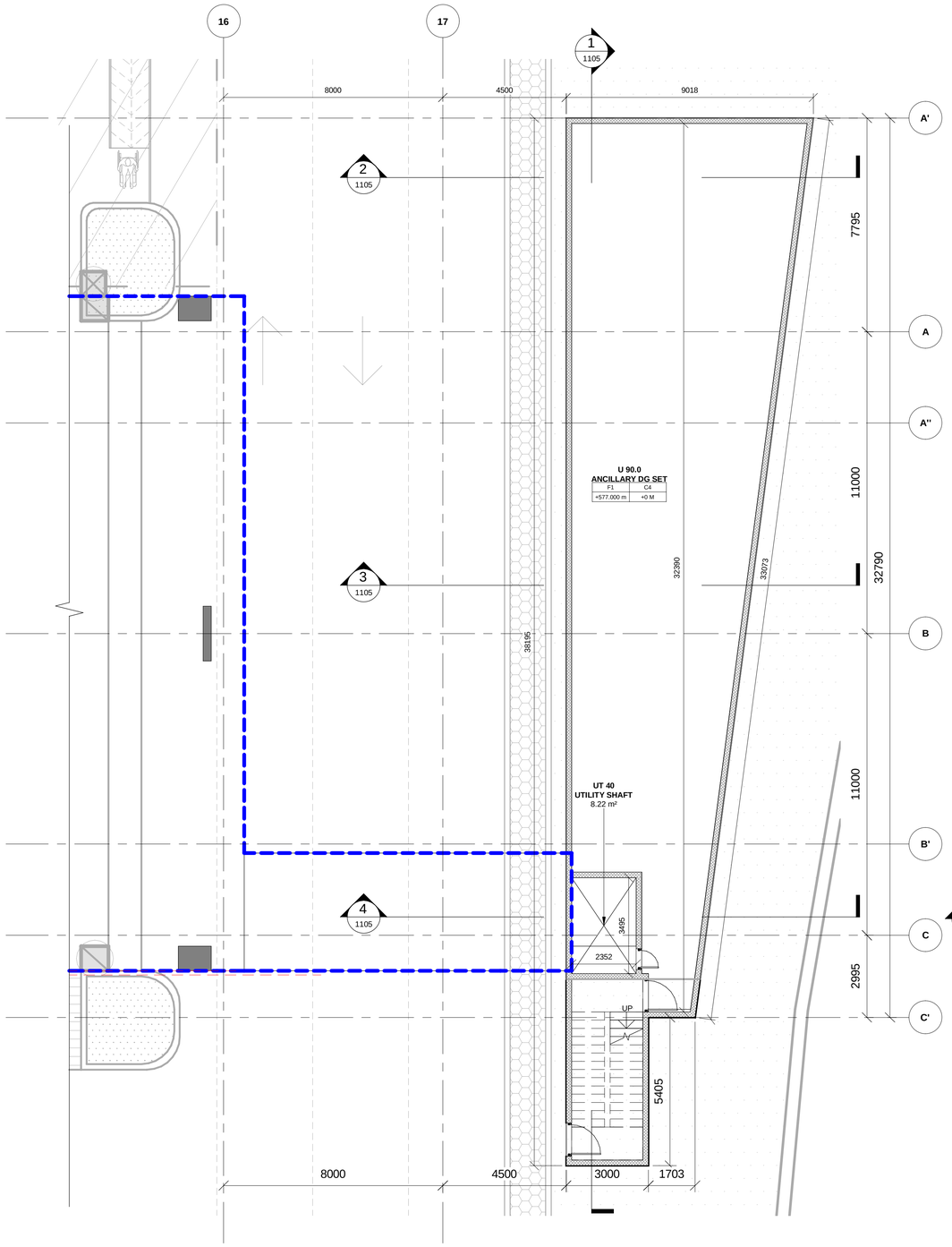
TITLE: **GROUND LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

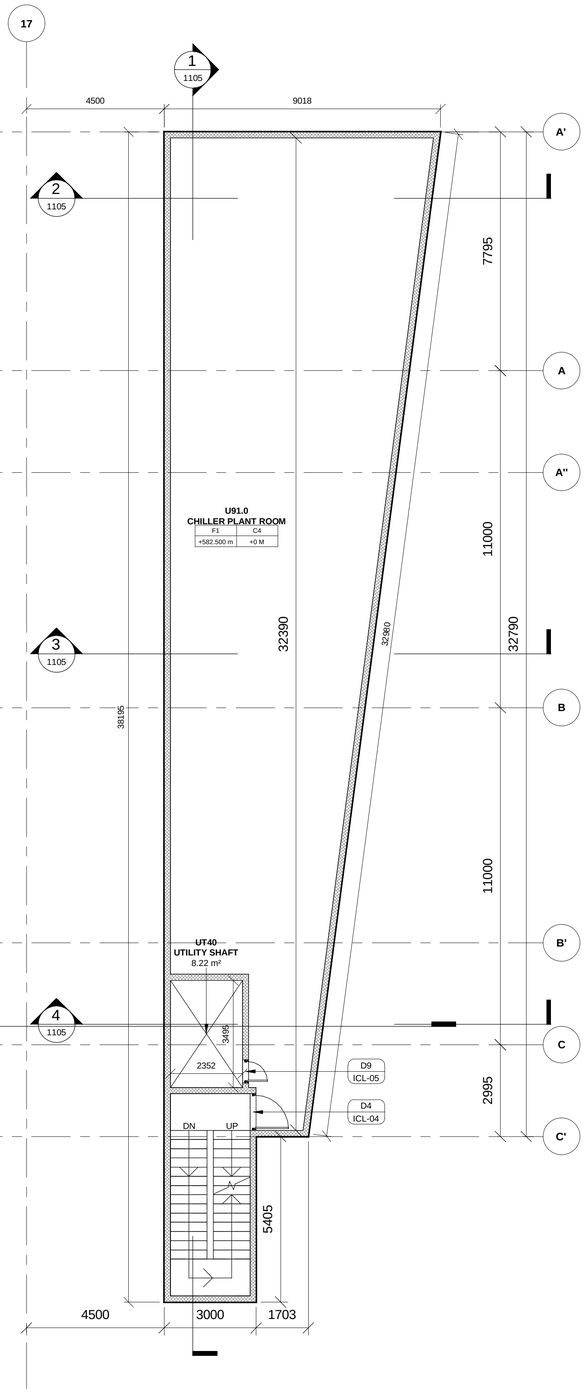
DRG NO: P4D02 - ACM - AR - PRM - SGT - GL - DRP - 1103

ARCHITECTURE

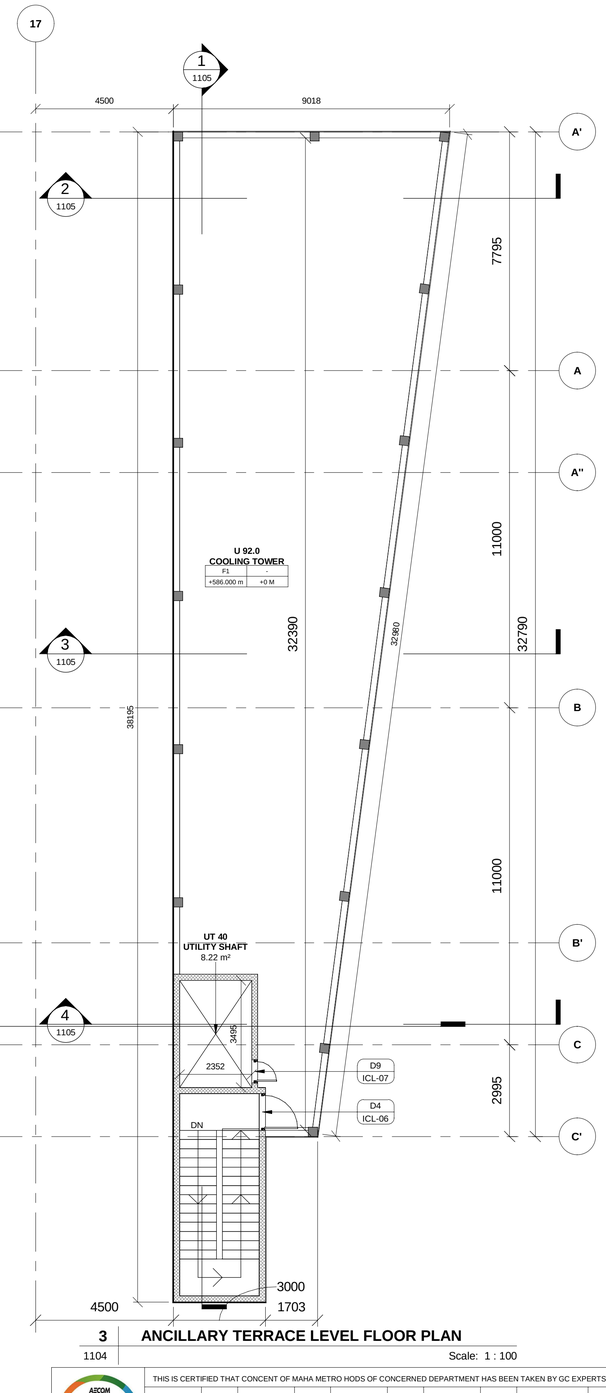
plot scale 50mm



1 | ANCILLARY GROUND FLOOR LEVEL PLAN
1104 Scale: 1 : 100



2 | ANCILLARY FIRST FLOOR LEVEL PLAN
1104 Scale: 1 : 100



3 | ANCILLARY TERRACE LEVEL FLOOR PLAN
1104 Scale: 1 : 100

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
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SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:		SIGN:	
DATE:	DATE:	DATE:		DATE:	
NAME:	NAME:	NAME:		NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

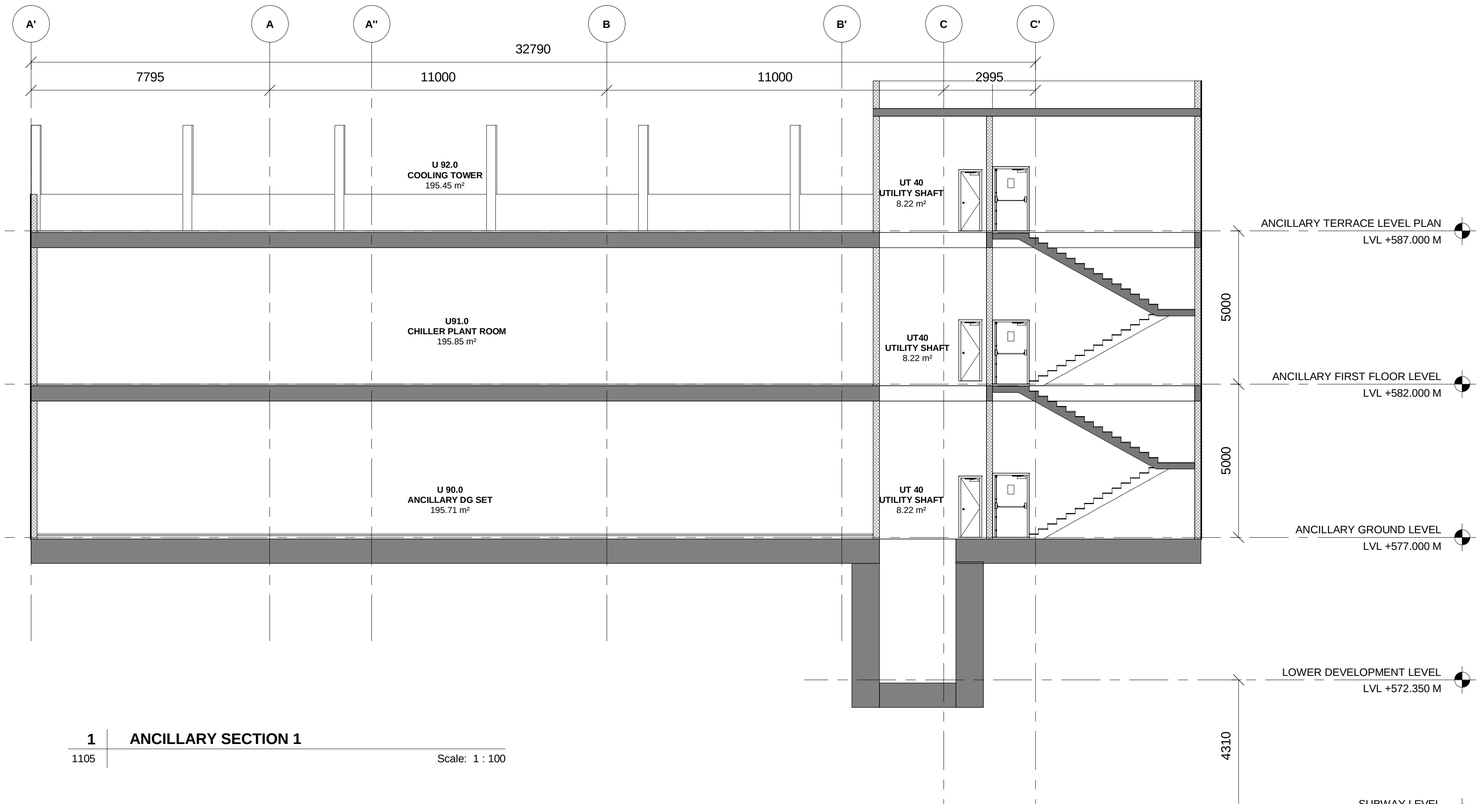
TITLE: **ANCILLARY BUILDING DETAIL 1**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

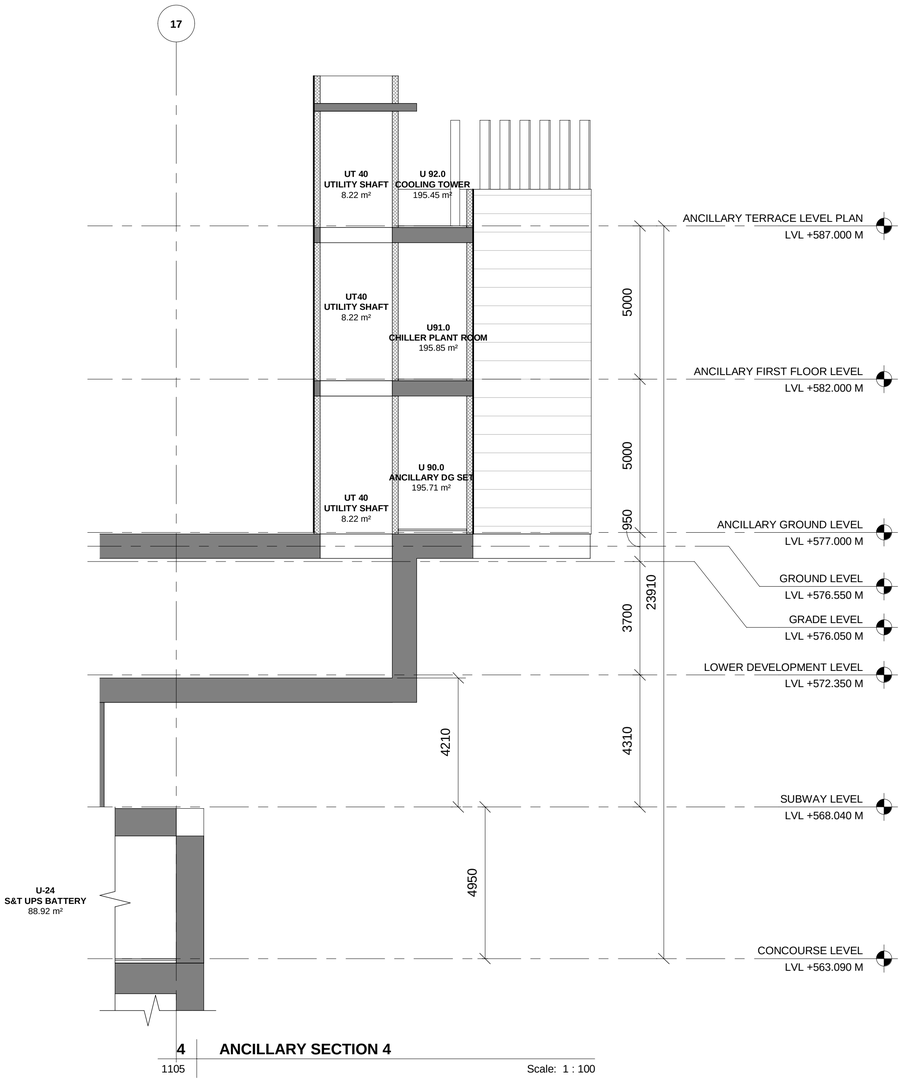
DRG NO: P4D02 - ACM - AR - PRM - SGT - AL - DPR - 1104

ARCHITECTURE

plot scale 50mm



1 | **ANCILLARY SECTION 1**
1105 | Scale: 1 : 100



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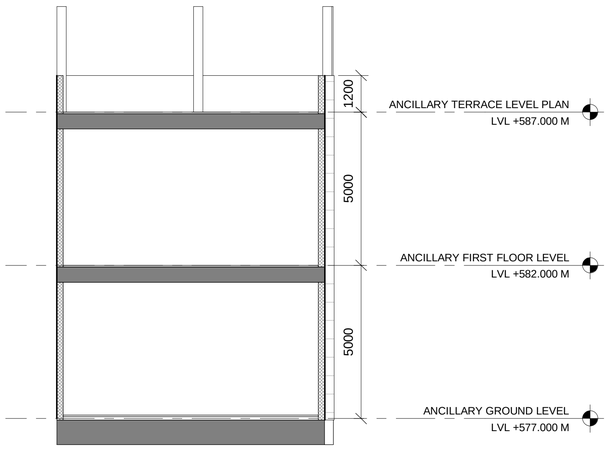
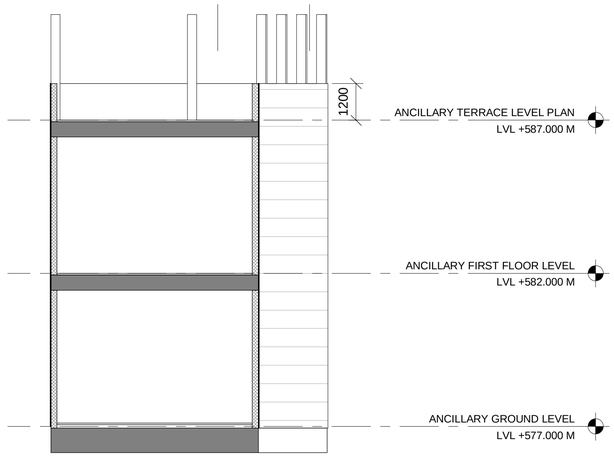
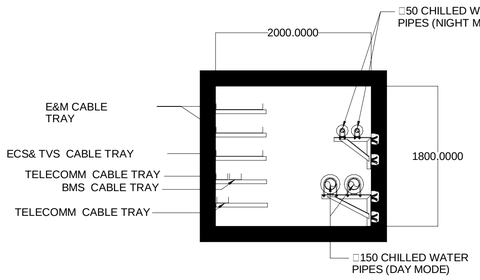
1105 | Scale: 1 : 100



2 | **ANCILLARY SECTION 2**
1105 | Scale: 1 : 100



3 | **ANCILLARY SECTION 3**
1105 | Scale: 1 : 100



AECOM-SYSTRA-CEG

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	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
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NOTES:
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.
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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

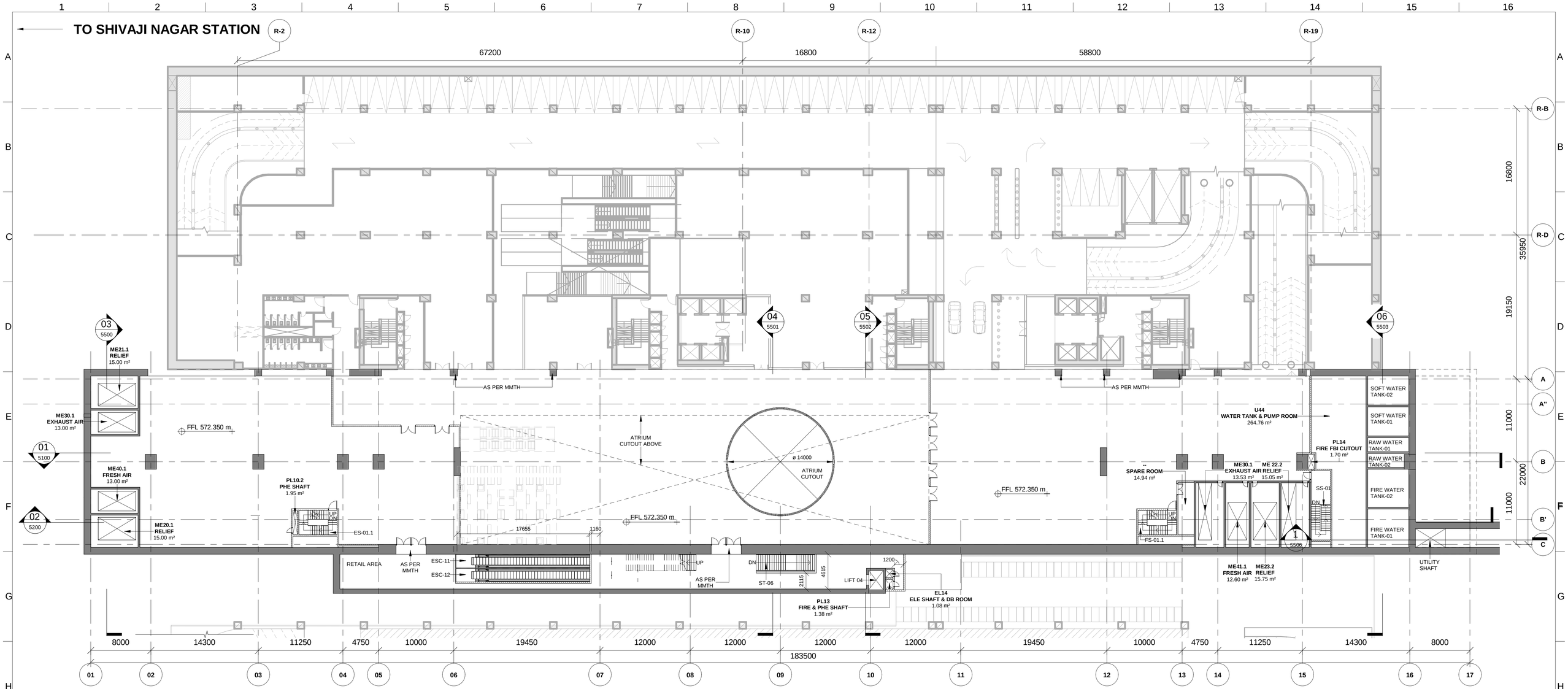
TITLE: **ANCILLARY BUILDING DETAIL 2**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - AL - DPR - 1105

ARCHITECTURE

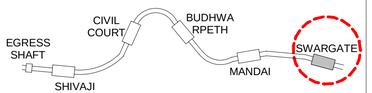
plot scale 50mm



1 LOWER DEVELOPMENT LEVEL KEY PLAN

1200 Scale: 1 : 250

KEY PLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

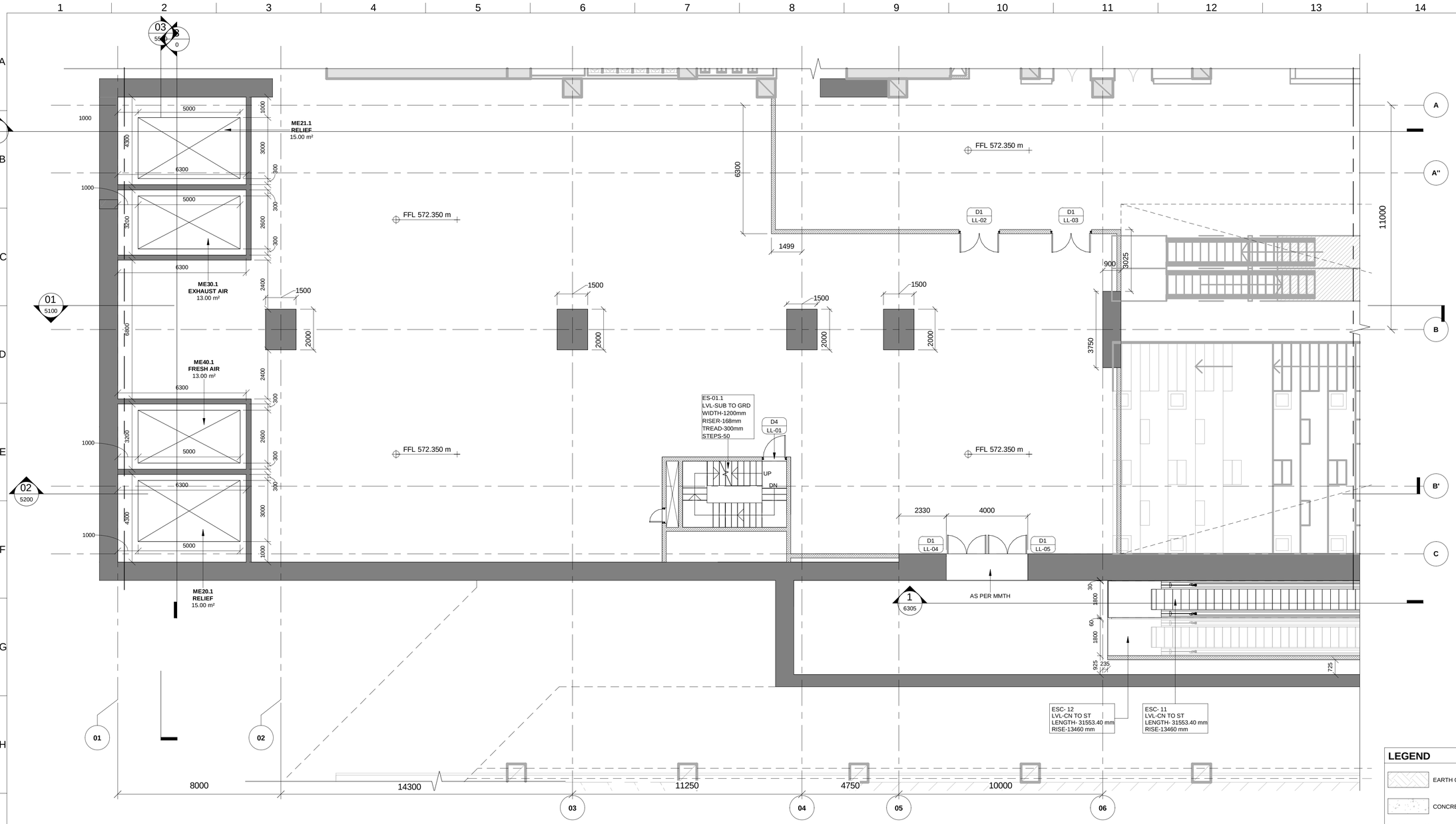
TITLE: **LOWER DEVELOPMENT LEVEL KEY PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - LG - DRP - 1200

ARCHITECTURE

plot scale 50mm

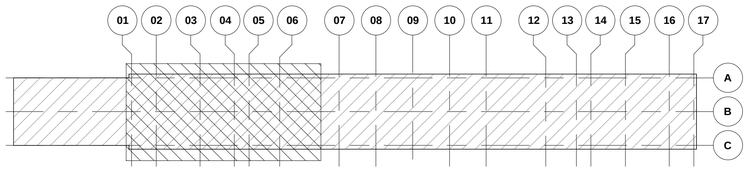


1 LOWER DEVELOPMENT LEVEL PLAN (1 OF 3)

1201

Scale: 1 : 100

KEYPLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

AECOM-SYSTRA-CEG

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Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
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COUNTER SIGNED BY MAHA METRO

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HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

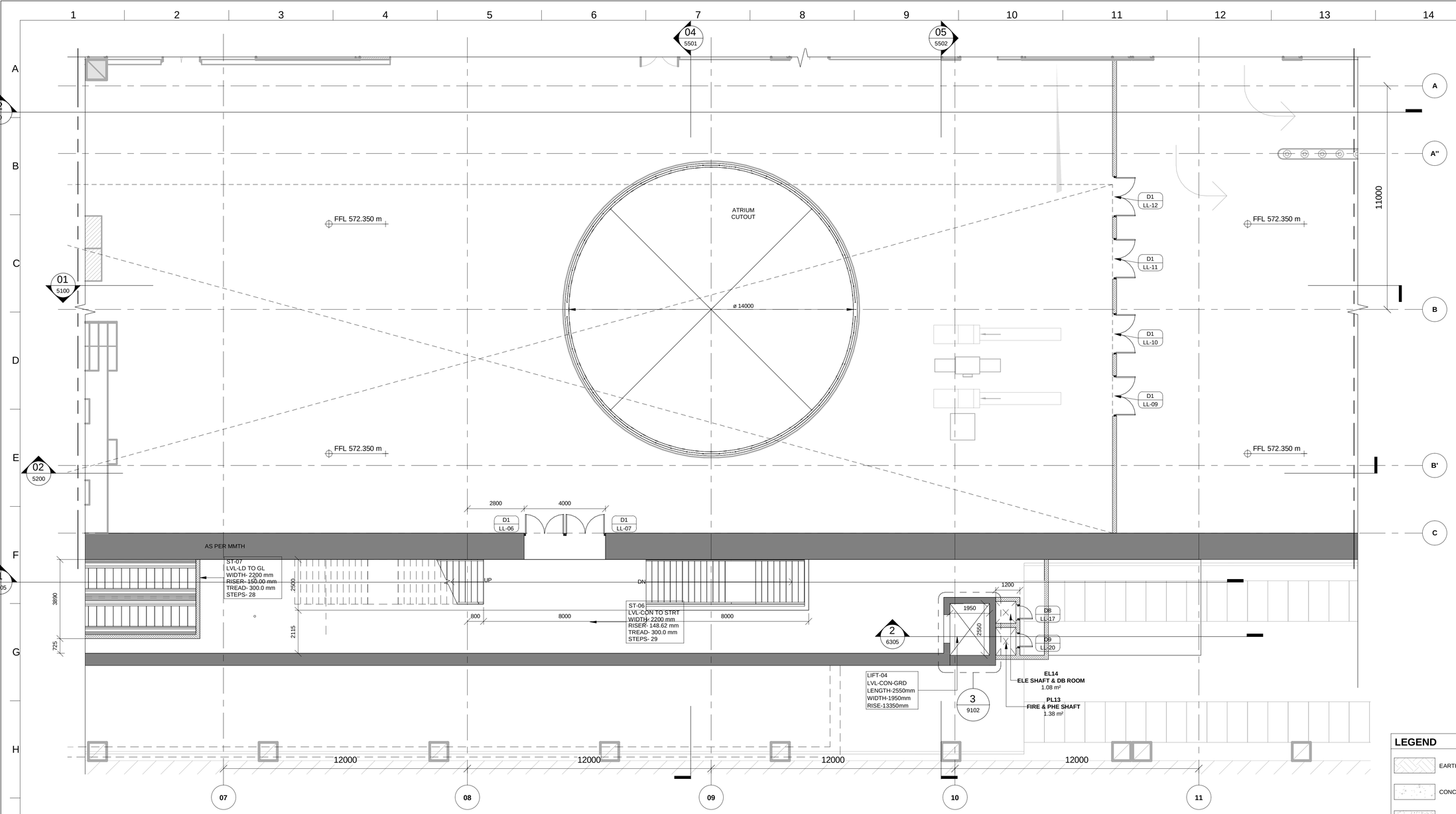
TITLE: **LOWER DEVELOPMENT LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

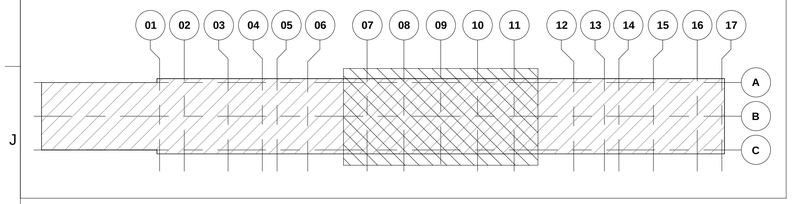
DRG NO: P4D02 - ACM - AR - PRM - SGT - LG - DRP - 1201

ARCHITECTURE

plot scale 50mm



KEYPLAN



1 LOWER DEVELOPMENT LEVEL PLAN (2 OF 3)

1202 Scale: 1 : 100

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

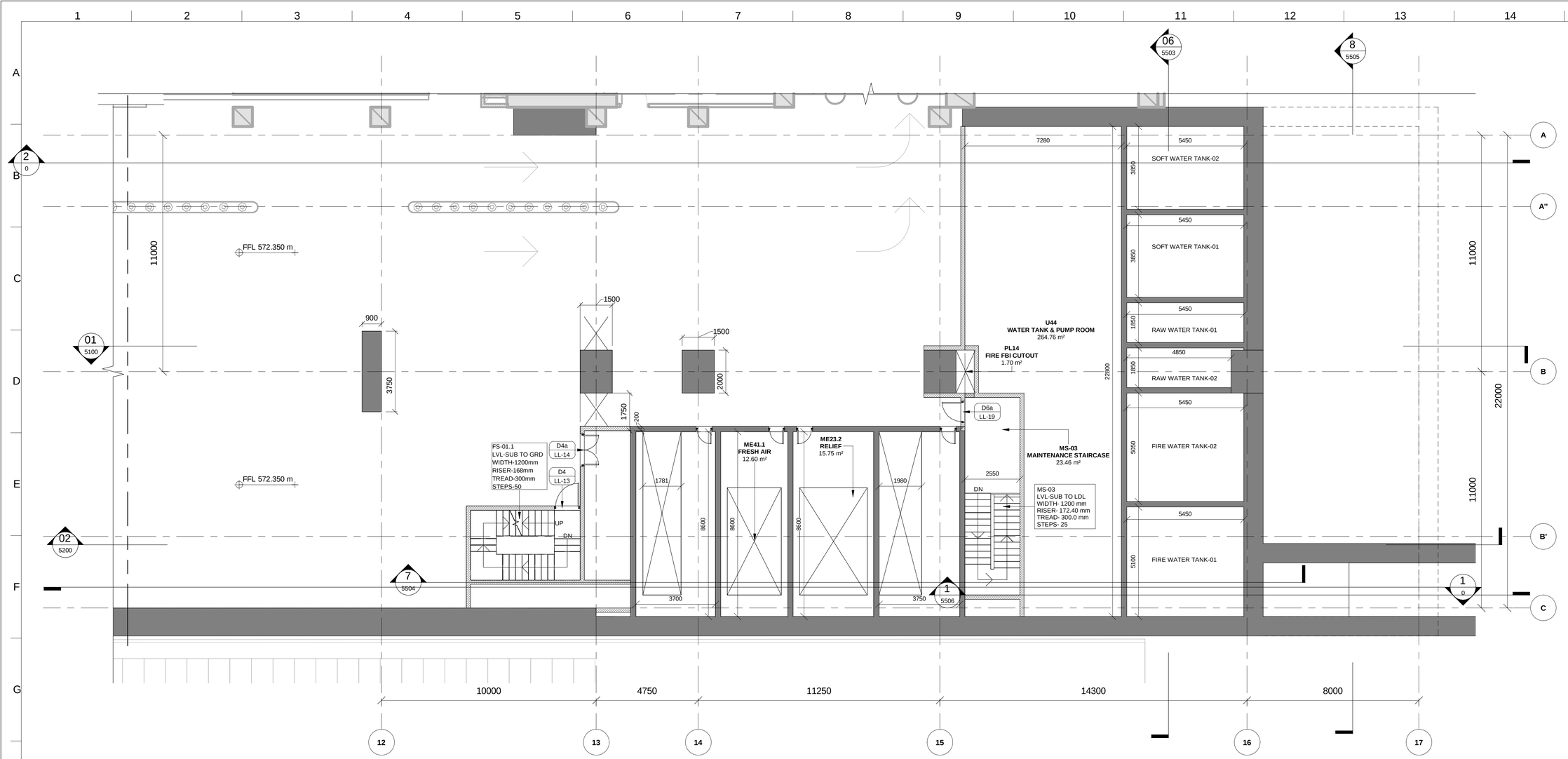
TITLE: **LOWER DEVELOPMENT LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B01

DRG NO: P4D02 - ACM - AR - PRM - SGT - LG - DRP - 1202

ARCHITECTURE

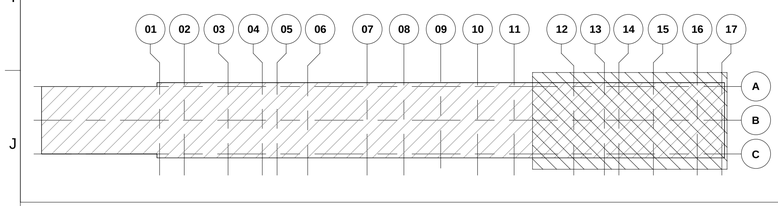
plot scale 50mm



1 LOWER DEVELOPMENT LEVEL PLAN (3 OF 3)

1203 Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
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D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
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D9	2000	750	-
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REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

NOTES:

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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

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DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:	NAME:	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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REVIEWED BY	APPROVED BY
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

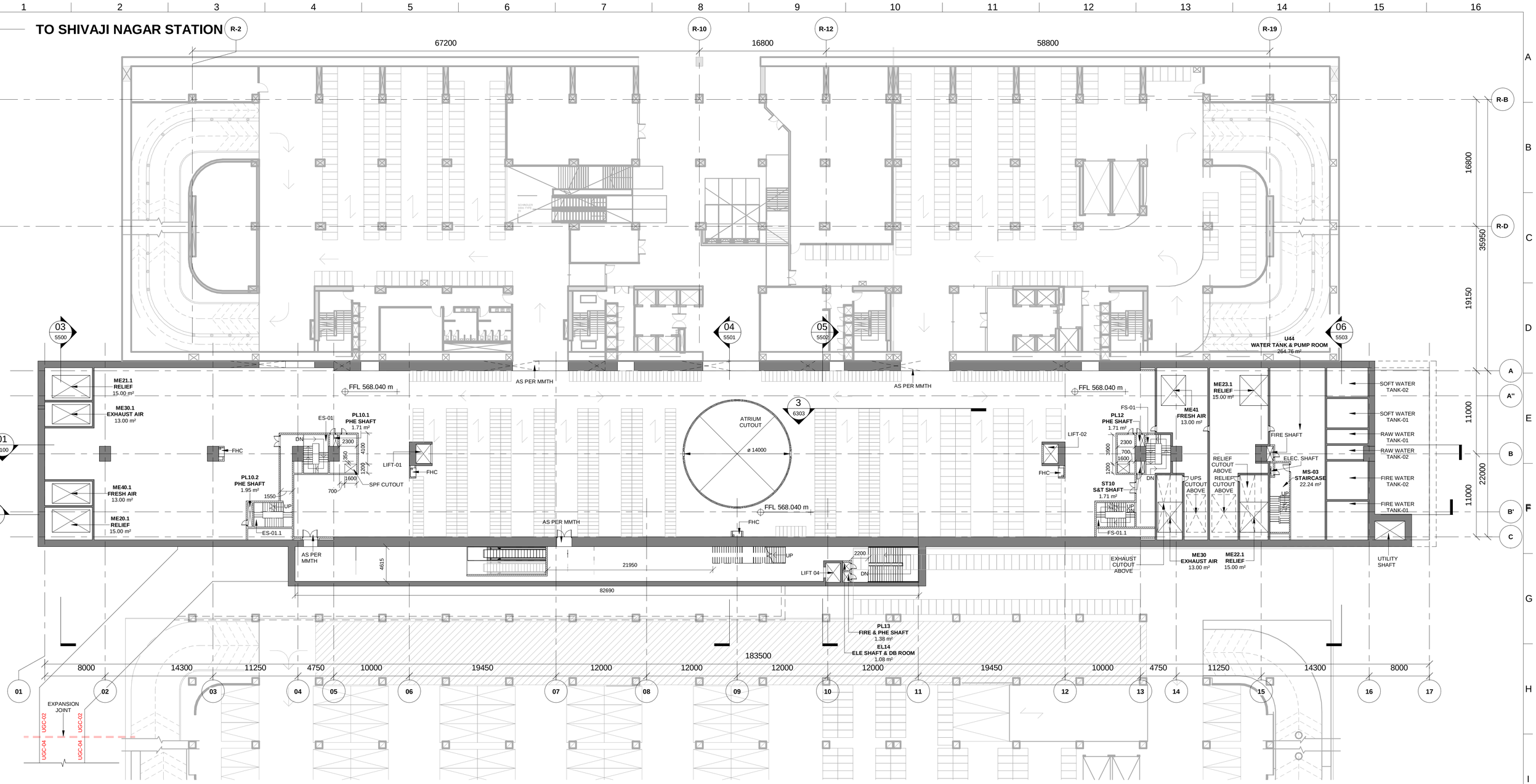
TITLE: **LOWER DEVELOPMENT LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - LG - DRP - 1203

ARCHITECTURE

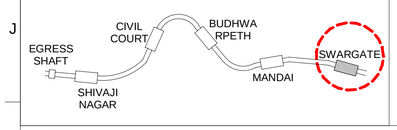
plot scale 50mm



1 SUBWAY LEVEL KEY PLAN

1300 Scale: 1 : 250

KEY PLAN



REVISION SCHEDULE

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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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AECOM-SYSTRA-CEG

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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

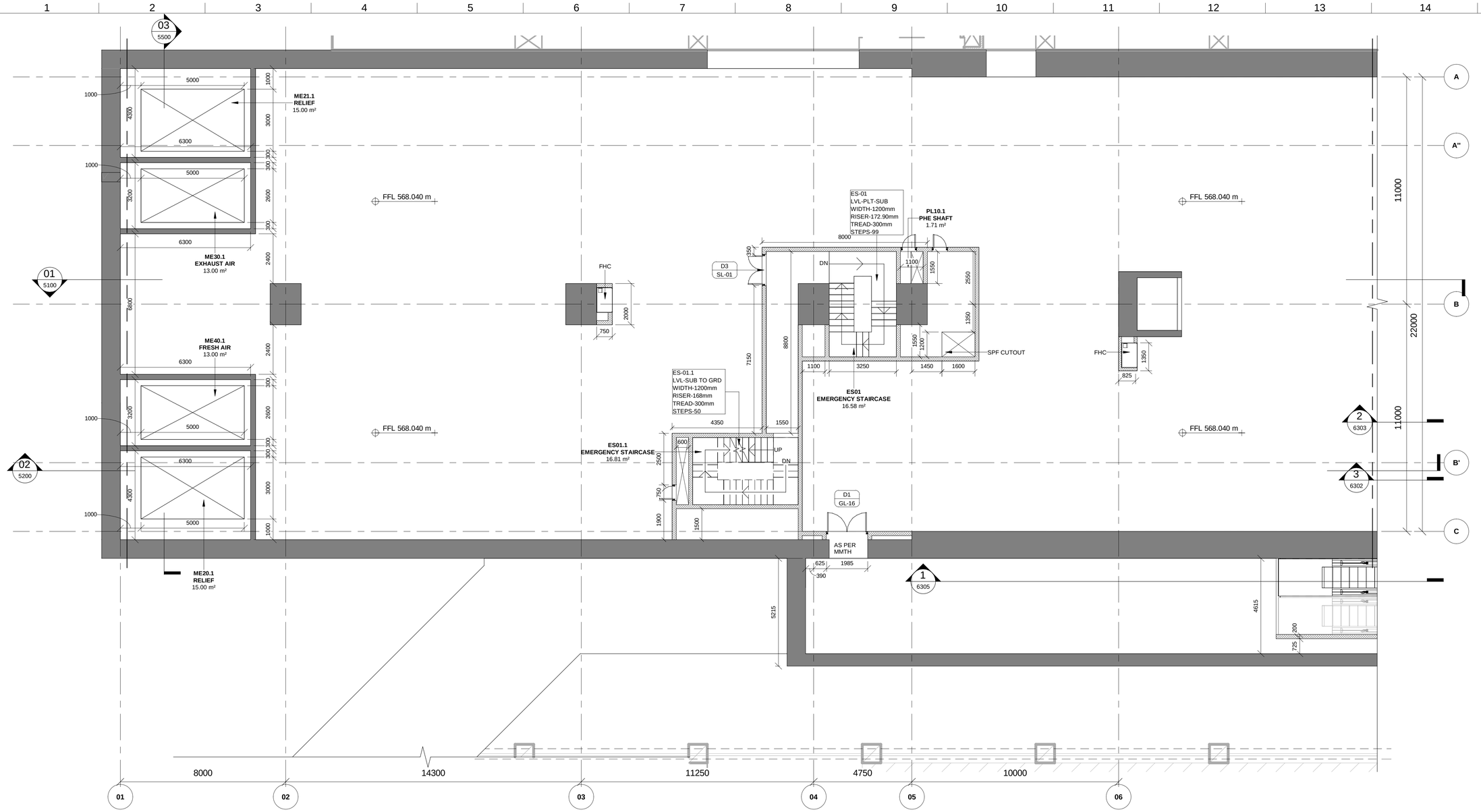
TITLE: **SUBWAY LEVEL KEY PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - SW - DRP - 1300

ARCHITECTURE

plot scale 50mm



1 SUBWAY LEVEL PLAN (1 OF 3)

1301 Scale: 1 : 100

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
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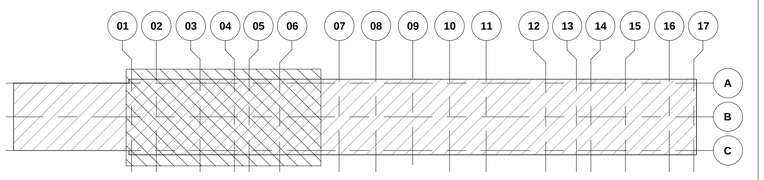
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
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AECOM-SYSTRA-CEG	AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT				REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:	SIGN:	SIGN:		
DATE:	DATE:	DATE:	DATE:		
NAME:	NAME:	NAME:	NAME:		

N/A

☐ Proof checked by GC
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REVIEWED BY	APPROVED BY

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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

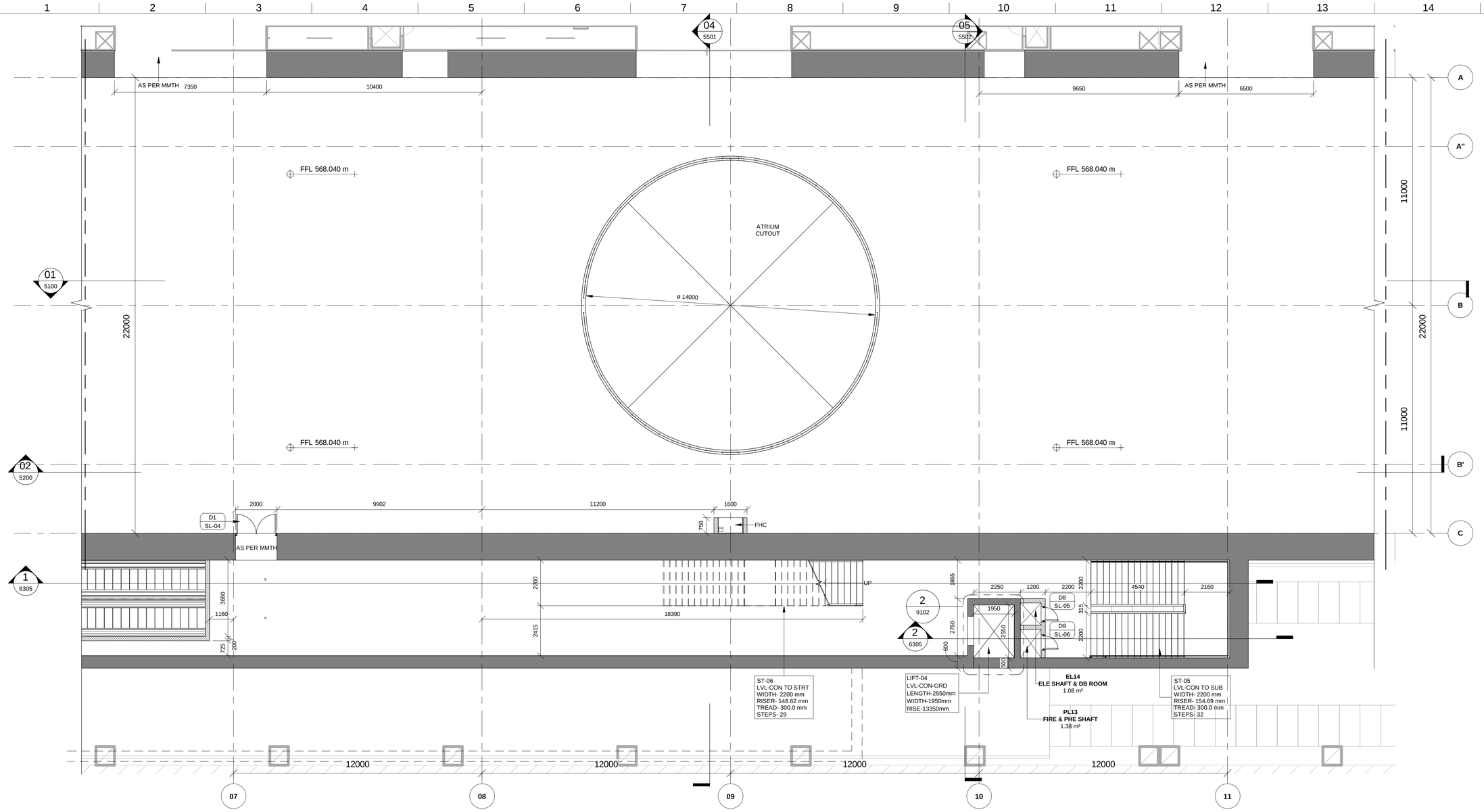
TITLE: **SUBWAY LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - SW - DRP - 1301

ARCHITECTURE

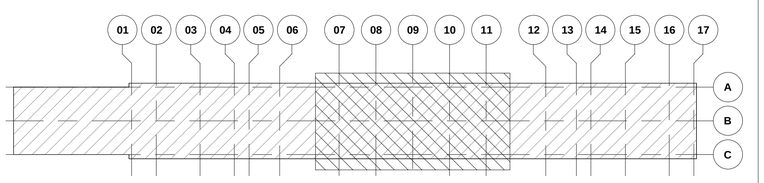
plot scale 50mm



1 SUBWAY LEVEL PLAN (2 OF 3)

1302 Scale: 1 : 100

KEYPLAN



LEGEND

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- CONCRETE SECTION
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- STR. WALL (AS/STR. DWG)
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DOOR SCHEDULE

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
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Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

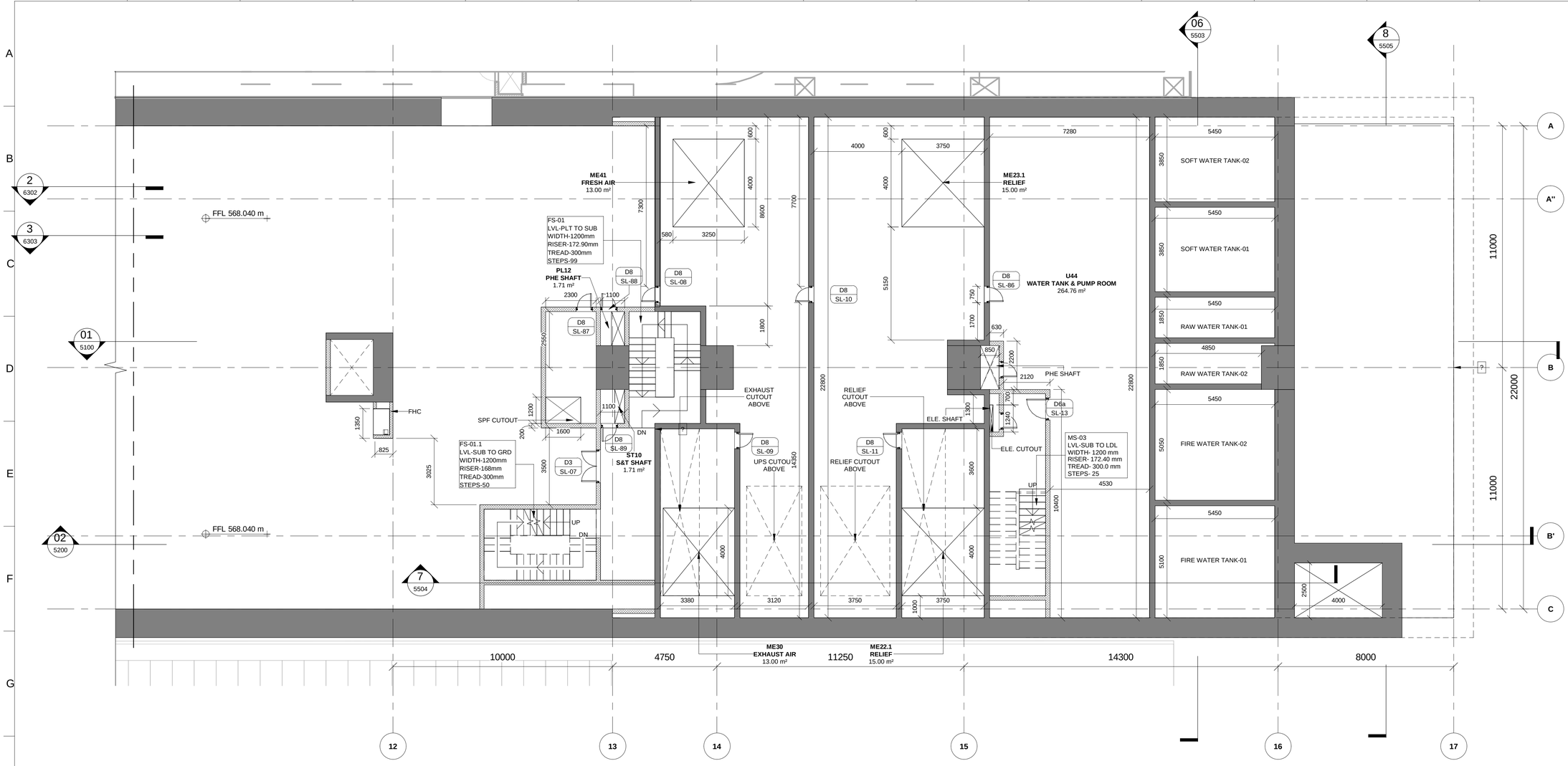
TITLE: **SUBWAY LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - SW - DRP - 1302

ARCHITECTURE

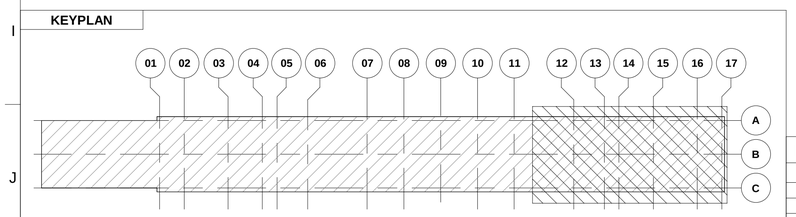
plot scale 50mm



1 SUBWAY LEVEL PLAN (3 OF 3)

1303 Scale: 1 : 100

KEYPLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

NOTES:

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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR			CONTRACTOR	PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.) / APPROVED BY (TEAM LEADER)

N/A

Proof checked by GC

Being Given No Objection

Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

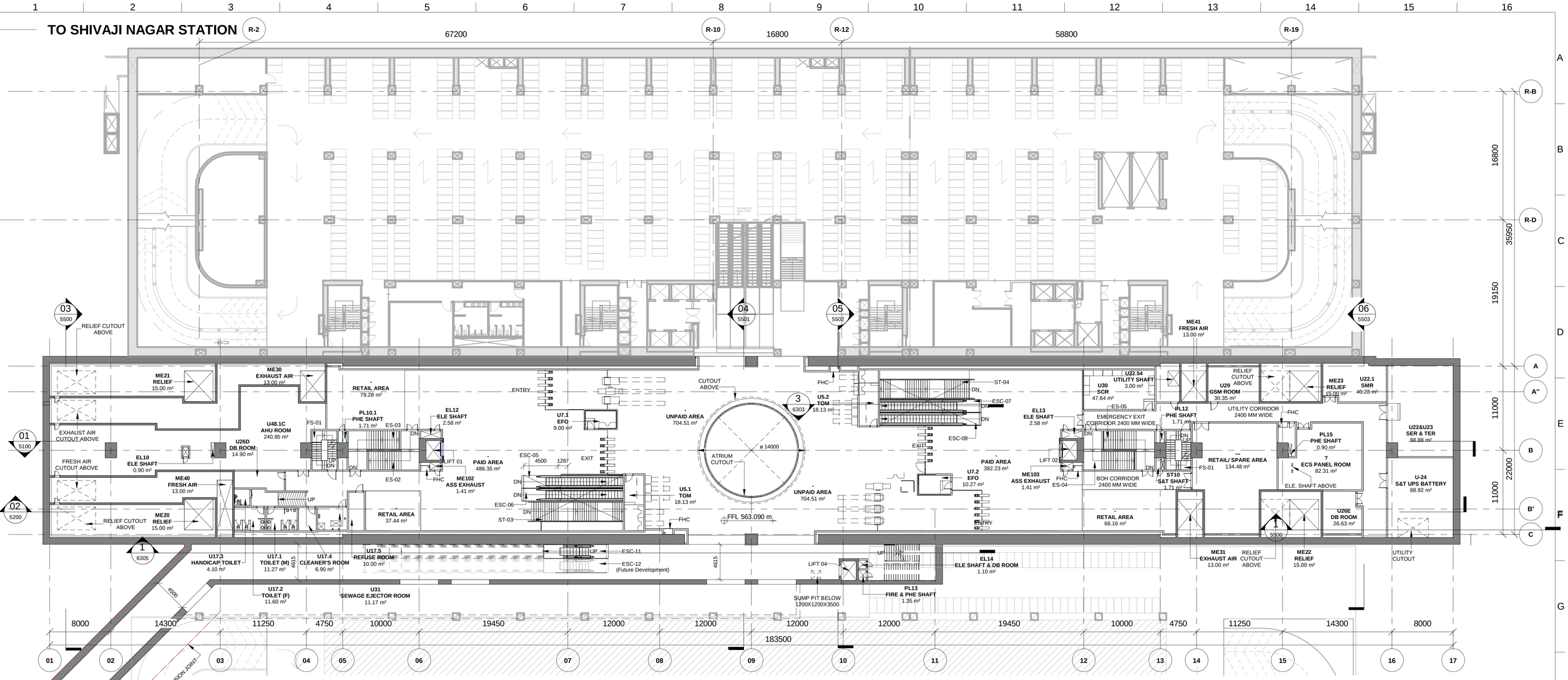
TITLE: **SUBWAY LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - SW - DRP - 1303

ARCHITECTURE

plot scale 50mm



1 CONCOURSE LEVEL KEY PLAN

2000 Scale: 1 : 250

ROOM SCHEDULE - CONCOURSE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U48.1C	AHU ROOM	240.85 m²
-	RETAIL AREA	66.16 m²
U7.1	EFO	9.00 m²
U5.1	TOM	18.13 m²
U5.2	TOM	18.13 m²
U7.2	EFO	10.27 m²
U22&U23	SER & TER	98.88 m²
-	PAID AREA	486.35 m²
-	PAID AREA	382.23 m²
-	UNPAID AREA	704.51 m²
U26D	DB ROOM	14.90 m²
U17.2	TOILET (F)	11.60 m²
U31	SEWAGE EJECTOR ROOM	11.17 m²
U26E	DB ROOM	26.63 m²

ROOM SCHEDULE - CONCOURSE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
ME22	RELIEF	15.00 m²
ME31	EXHAUST AIR	13.00 m²
ME21	RELIEF	15.00 m²
ME20	RELIEF	15.00 m²
ME30	EXHAUST AIR	13.00 m²
ME40	FRESH AIR	13.00 m²
-	RETAIL AREA	37.44 m²
-	RETAIL AREA	79.28 m²
U30	SCR	47.64 m²
U29	GSM ROOM	30.35 m²
ME41	FRESH AIR	13.00 m²
ME23	RELIEF	15.00 m²
U22.54	UTILITY SHAFT	3.00 m²
-	RELIEF PLENUM	80.93 m²

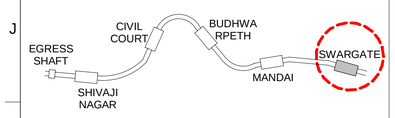
ROOM SCHEDULE - CONCOURSE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
-	FRESH AIR PLENUM	77.17 m²
-	RELIEF PLENUM	80.93 m²
-	EXHAUST AIR PLENUM	124.31 m²
ES02	EMERGENCY STAIRCASE	12.32 m²
ES03	EMERGENCY STAIRCASE	11.99 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES04	EMERGENCY STAIRCASE	11.99 m²
ES05	EMERGENCY STAIRCASE	12.24 m²
FS01	FIREMEN STAIRCASE	16.58 m²
-	BOH CORRIDOR	34.08 m²
EL13	ELE SHAFT	2.58 m²
EL12	ELE SHAFT	2.58 m²
ME103	ASS EXHAUST	1.41 m²
ME102	ASS EXHAUST	1.41 m²

ROOM SCHEDULE - CONCOURSE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
EL14	ELE SHAFT & DB ROOM	1.10 m²
PL13	FIRE & PHE SHAFT	1.35 m²
-	PLENUM	31.98 m²
-	PLENUM	24.15 m²
U17.1	TOILET (M)	11.27 m²
U17.3	HANDICAP TOILET	4.10 m²
U17.5	REFUSE ROOM	10.00 m²
U22.1	SMR	40.28 m²
---	RETAIL/ SPARE AREA	134.48 m²
U17.4	CLEANER'S ROOM	6.90 m²
MLM-69	ASS EXHAUST DUCT	0.94 m²
U-24	S&T UPS BATTERY	88.92 m²
	ECS PANEL ROOM	82.31 m²

KEY PLAN



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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:	DATE:	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:	NAME:	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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- ☐ Proof checked by GC
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REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

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AECOM-SYSTRA-CEG

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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

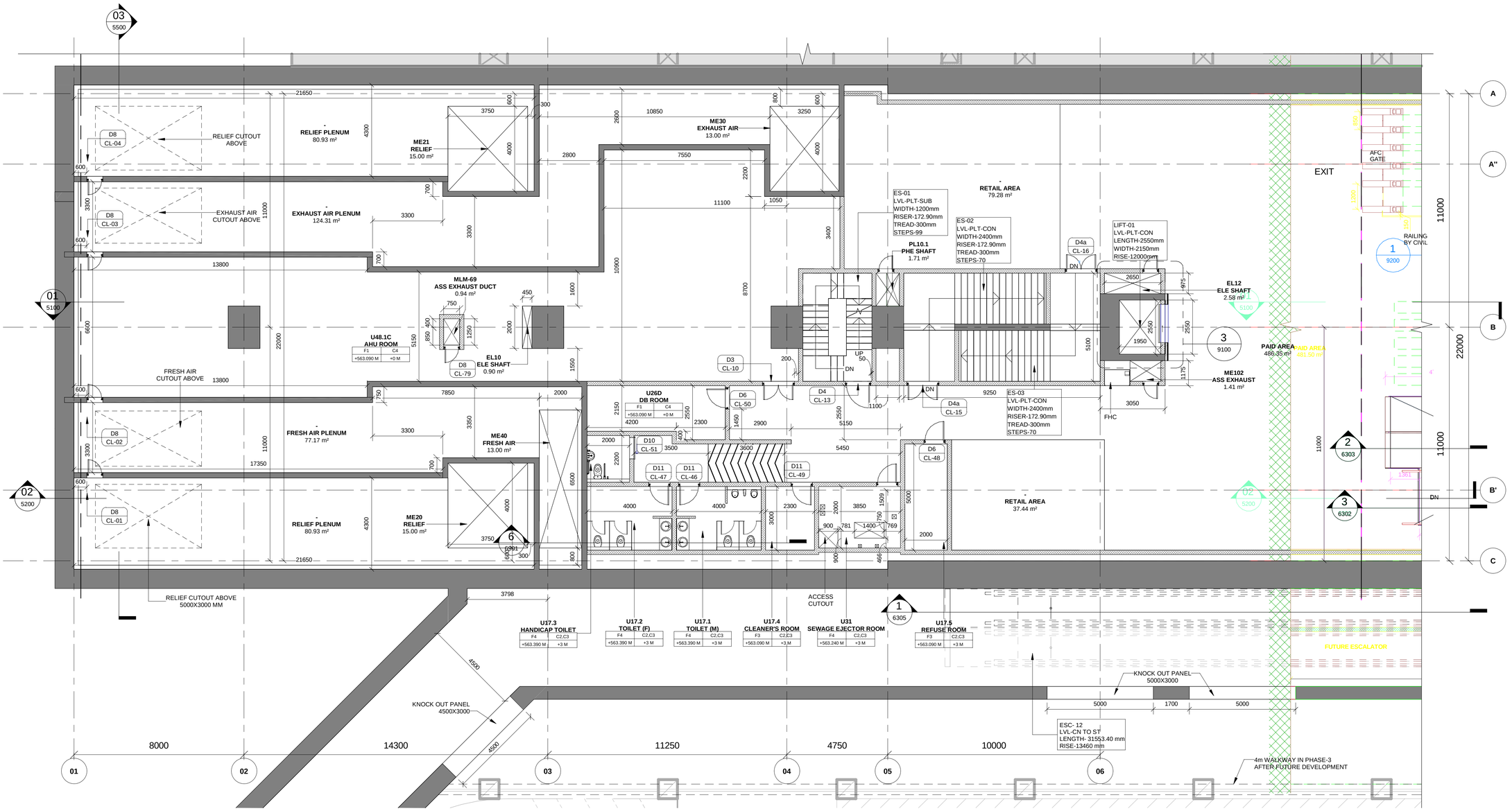
TITLE: **CONCOURSE LEVEL KEY PLAN**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - CL - DPR - 2000

ARCHITECTURE

plot scale 50mm



ROOM SCHEDULE -...

Room No.	Room Name	Area
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-	RETAIL AREA	66.16 m²
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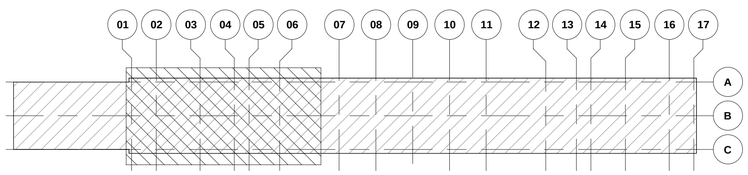
LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEYPLAN



1 | CONCOURSE LEVEL PLAN (1 OF 3)

2001 | Scale: 1 : 100

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR		CONTRACTOR		
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert	
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

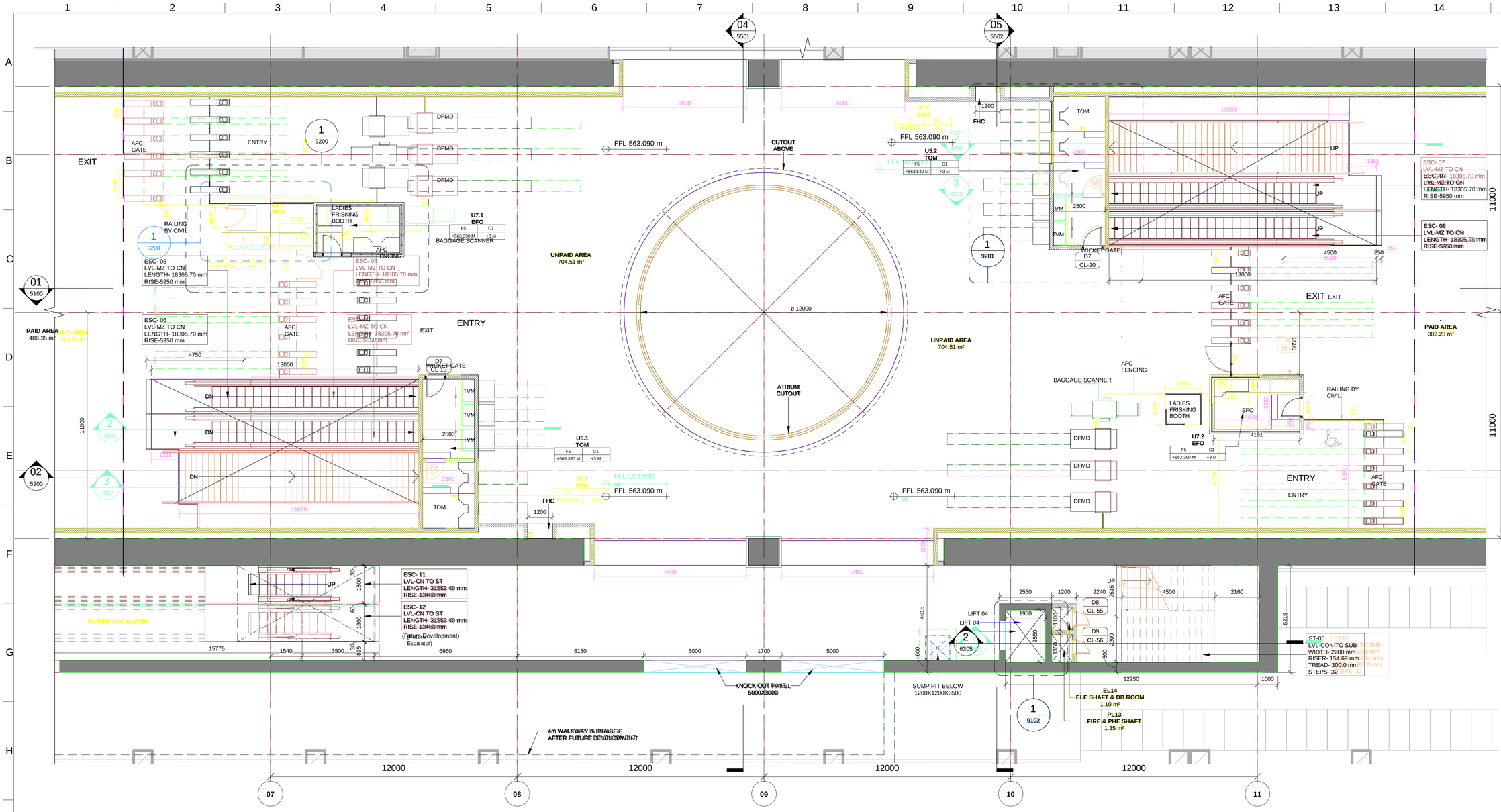
TITLE: **CONCOURSE LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - CL - DRP - 2001

ARCHITECTURE

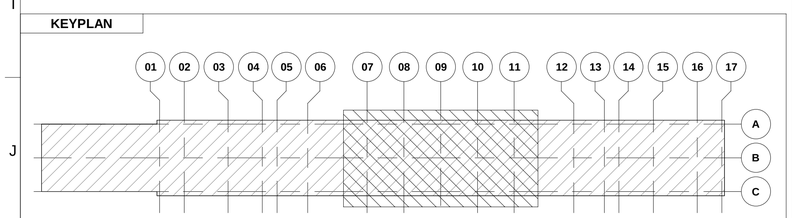
plot scale 50mm



ROOM SCHEDULE -...

Room No.	Room Name	Area
U48.1C	AHU ROOM	240.85 m²
-	RETAIL AREA	66.16 m²
U7.1	EFO	9.00 m²
U5.1	TOM	18.13 m²
U5.2	TOM	18.13 m²
U7.2	EFO	10.27 m²
U22&U23	SER & TER	98.88 m²
-	PAID AREA	486.35 m²
-	PAID AREA	382.23 m²
-	UNPAID AREA	704.51 m²
U26D	DB ROOM	14.90 m²
U17.2	TOILET (F)	11.60 m²
U31	SEWAGE EJECTOR ROOM	11.17 m²
U26E	DB ROOM	26.63 m²
ME22	RELIEF	15.00 m²
ME31	EXHAUST AIR	13.00 m²
ME21	RELIEF	15.00 m²
ME20	RELIEF	15.00 m²
ME30	EXHAUST AIR	13.00 m²
ME40	FRESH AIR	13.00 m²
-	RETAIL AREA	37.44 m²
-	RETAIL AREA	79.28 m²
U30	SCR	47.64 m²
U29	GSM ROOM	30.35 m²
ME41	FRESH AIR	13.00 m²
ME23	RELIEF	15.00 m²
U22.54	UTILITY SHAFT	3.00 m²
-	RELIEF PLENUM	80.93 m²
-	FRESH AIR PLENUM	77.17 m²
-	RELIEF PLENUM	80.93 m²
-	EXHAUST AIR PLENUM	124.31 m²
ES02	EMERGENCY STAIRCASE	12.32 m²
ES03	EMERGENCY STAIRCASE	11.99 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES04	EMERGENCY STAIRCASE	11.99 m²
ES05	EMERGENCY STAIRCASE	12.24 m²
FS01	FIREMEN STAIRCASE	16.58 m²
-	BOH CORRIDOR	34.08 m²
EL13	ELE SHAFT	2.58 m²
EL12	ELE SHAFT	2.58 m²
ME103	ASS EXHAUST	1.41 m²
ME102	ASS EXHAUST	1.41 m²
EL14	ELE SHAFT & DB ROOM	1.10 m²
PL13	FIRE & PHE SHAFT	1.35 m²
U17.1	TOILET (M)	11.27 m²
U17.3	HANDICAP TOILET	4.10 m²
U17.5	REFUSE ROOM	10.00 m²
U22.1	SMR	40.28 m²
---	RETAIL/ SPARE AREA	134.48 m²
U17.4	CLEANER'S ROOM	6.90 m²
MLM-69	ASS EXHAUST DUCT	0.94 m²
U-24	S&T UPS BATTERY	88.92 m²
	ECS PANEL ROOM	82.31 m²

KEYPLAN



DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

1 CONCOURSE LEVEL PLAN (2 OF 3)

2002 Scale: 1 : 100

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY.ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNEMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY,AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.
IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- Proof checked by GC
- Being Given No Objection
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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

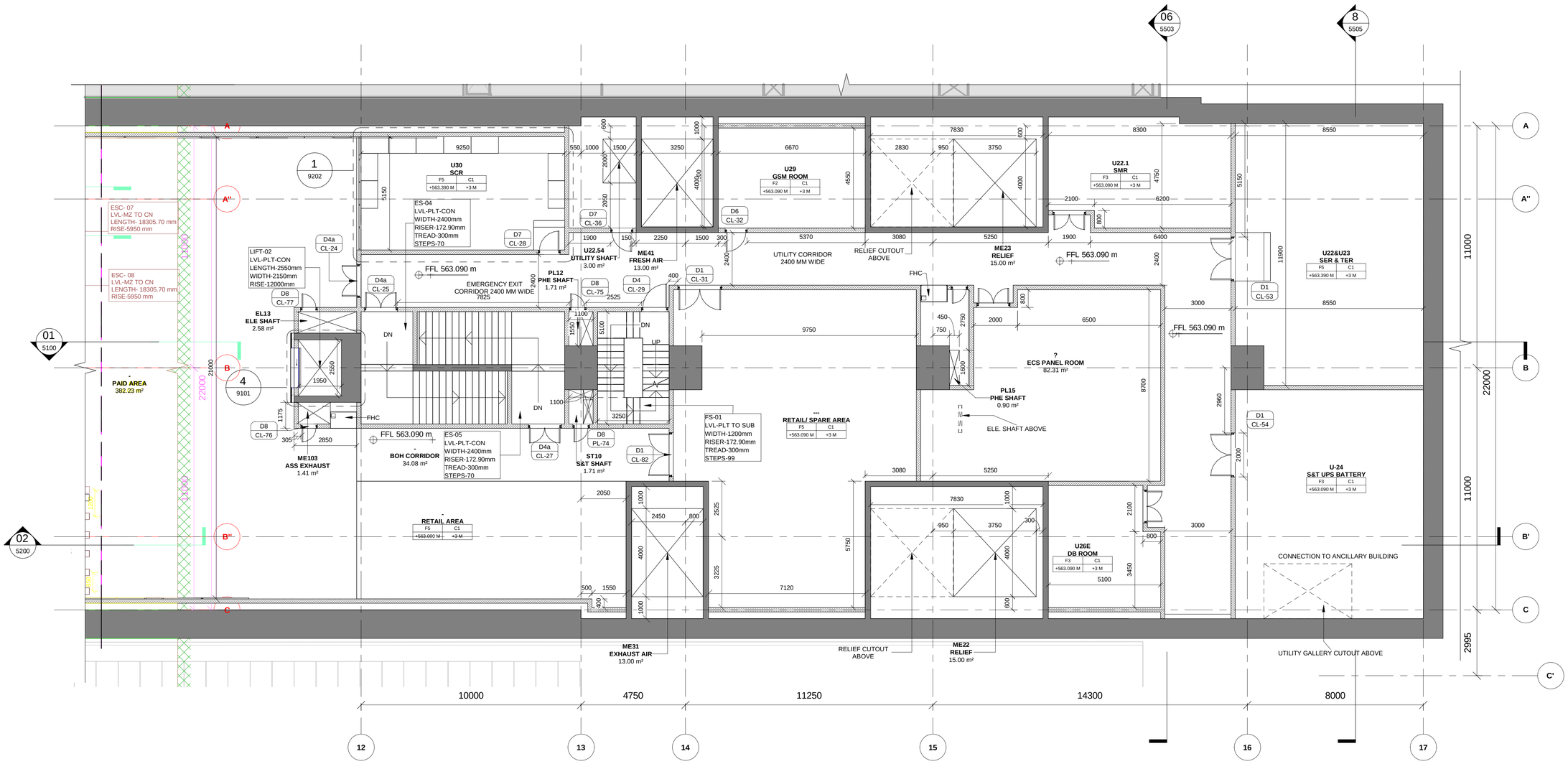
TITLE: **CONCOURSE LEVEL PLAN (2 OF 3)**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - CL - DRP - 2002

ARCHITECTURE

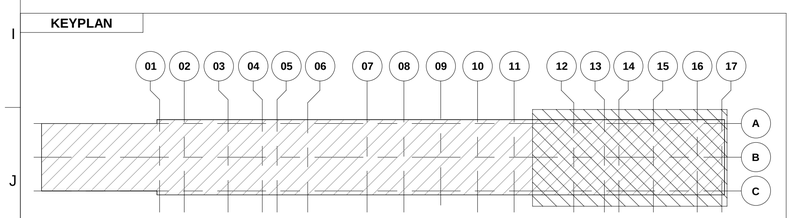
plot scale 50mm



1 CONCOURSE LEVEL PLAN (3 OF 3)

2003 Scale: 1 : 100

KEYPLAN



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D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
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LEGEND

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- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
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ROOM SCHEDULE -...

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MLM-69	ASS EXHAUST DUCT	0.94 m²
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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

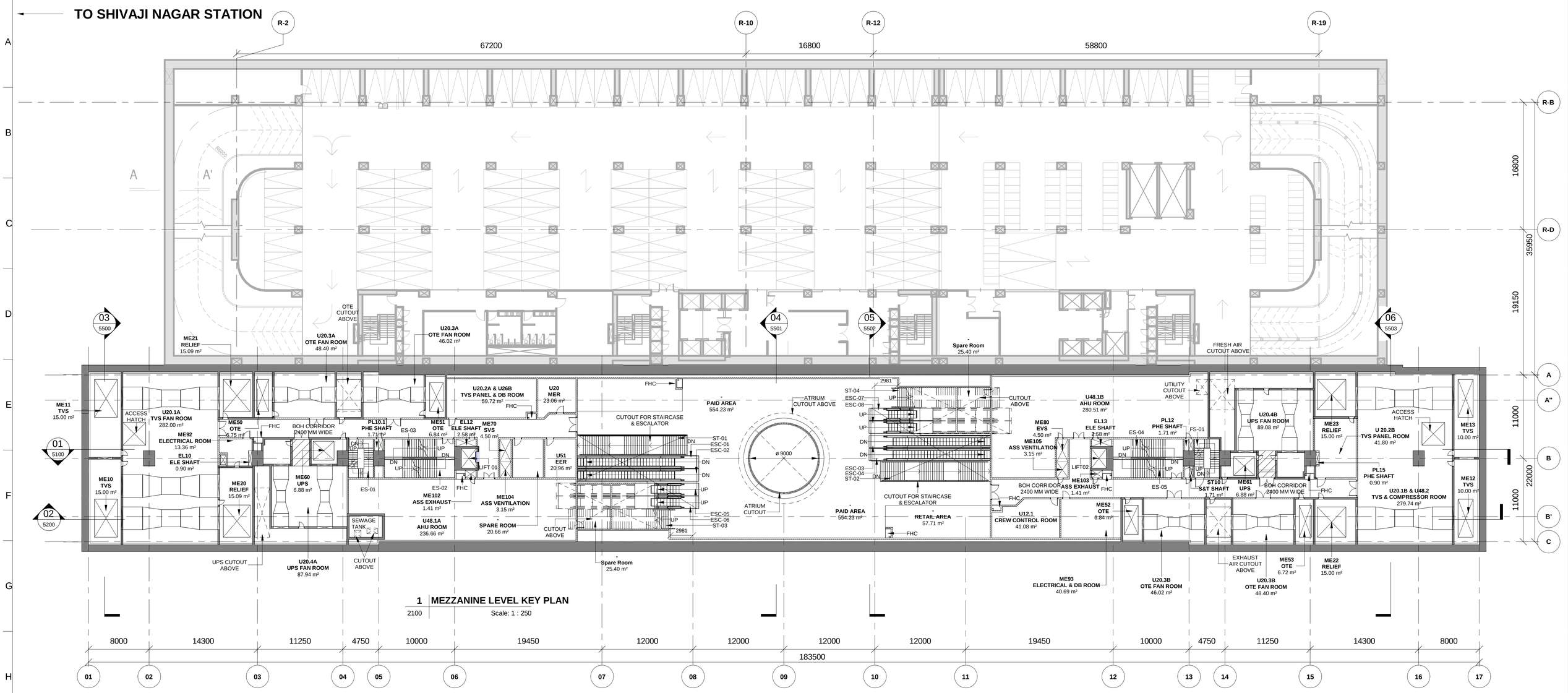
TITLE: **CONCOURSE LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - CL - DRP - 2003

ARCHITECTURE

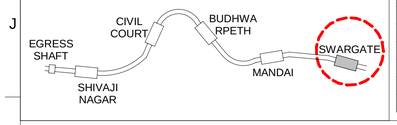
plot scale 50mm



1 MEZZANINE LEVEL KEY PLAN

Scale: 1 : 250

KEY PLAN



ROOM SCHEDULE - MEZZANINE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U20.1A	TVS FAN ROOM	282.00 m²
U20.3A	OTE FAN ROOM	48.40 m²
U20.3A	OTE FAN ROOM	46.02 m²
U20.4A	UPS FAN ROOM	87.94 m²
U20.4B	UPS FAN ROOM	89.08 m²
U20.3B	OTE FAN ROOM	46.02 m²
U20.3B	OTE FAN ROOM	48.40 m²
U20.1B & U48.2	TVS & COMPRESSOR ROOM	279.74 m²
U20.2A & U26B	TVS PANEL & DB ROOM	59.72 m²
-	SPARE ROOM	20.66 m²
ME93	ELECTRICAL & DB ROOM	40.69 m²
U48.1B	AHU ROOM	280.51 m²
U12.1	CREW CONTROL ROOM	41.08 m²
U48.1A	AHU ROOM	236.66 m²
-	PAID AREA	554.23 m²

ROOM SCHEDULE - MEZZANINE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
-	RETAIL AREA	35.74 m²
-	RETAIL AREA	57.71 m²
ME60	UPS	6.88 m²
ME10	TVS	15.00 m²
ME11	TVS	15.00 m²
ME21	RELIEF	15.09 m²
ME50	OTE	6.75 m²
ME20	RELIEF	15.09 m²
ME51	OTE	6.84 m²
ME70	SVS	4.50 m²
ME80	EVS	4.50 m²
ME52	OTE	6.84 m²
ME61	UPS	6.88 m²
ME23	RELIEF	15.00 m²
ME13	TVS	10.00 m²
ME12	TVS	10.00 m²

ROOM SCHEDULE - MEZZANINE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
ME22	RELIEF	15.00 m²
ME53	OTE	6.72 m²
ME92	ELECTRICAL ROOM	13.36 m²
U51	EER	20.96 m²
U20	MER	23.06 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES03	EMERGENCY STAIRCASE	22.79 m²
ES02	EMERGENCY STAIRCASE	23.04 m²
-	BOH CORRIDOR	129.46 m²
-	BOH CORRIDOR	133.32 m²
-	RELIEF PLENUM	29.07 m²
-	RELIEF PLENUM	11.01 m²
-	OTE PLENUM	7.35 m²
-	OTE PLENUM	19.50 m²
-	OTE PLENUM	7.44 m²
-	RELIEF PLENUM	17.10 m²

ROOM SCHEDULE - MEZZANINE LEVEL_250

ROOM NUMBER	ROOM NAME	AREA (sqm.)
-	RELIEF PLENUM	16.57 m²
-	OTE PLENUM	7.38 m²
-	EXHAUST AIR	19.50 m²
-	OTE PLENUM	7.44 m²
FS01	FIREMEN STAIRCASE	16.58 m²
ES04	EMERGENCY STAIRCASE	22.79 m²
ES05	EMERGENCY STAIRCASE	23.04 m²
U 20.2B	TVS PANEL ROOM	41.80 m²
EL12	ELE SHAFT	2.58 m²
EL13	ELE SHAFT	2.58 m²
ME102	ASS EXHAUST	1.41 m²
ME103	ASS EXHAUST	1.41 m²
ME105	ASS VENTILATION	3.15 m²
ME104	ASS VENTILATION	3.15 m²
-	Spare Room	25.40 m²
-	Spare Room	25.40 m²
-	SEWAGE TANK	12.23 m²
MLM-69	ASS EXHAUST DUCT	PROJECT 37 m²

NOTES:

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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 06.05.2021	DATE: 06.05.2021	DATE: 06.05.2021	DATE: 06.05.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PUNE METRO

PUNE METRO RAIL PROJECT
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

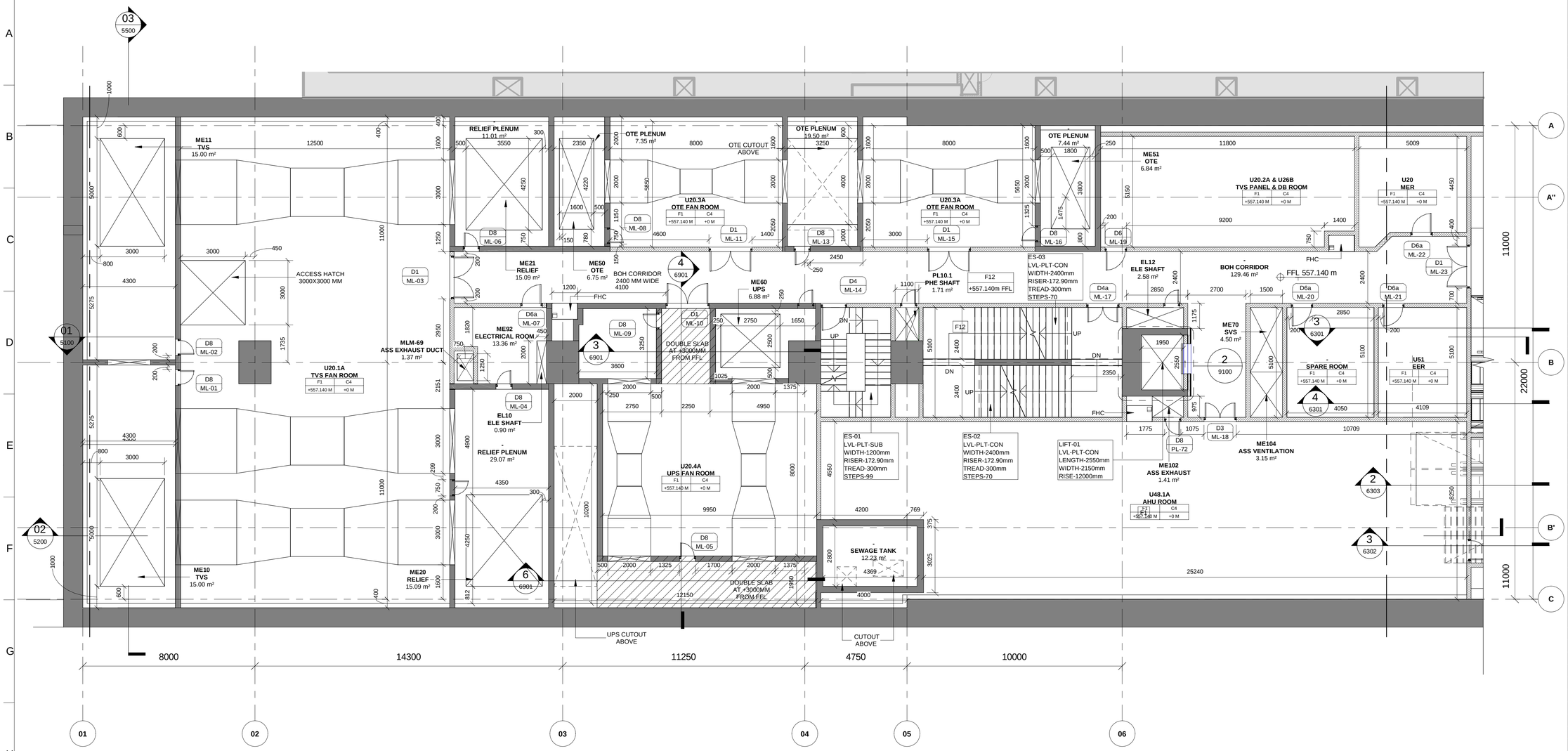
TITLE: **MEZZANINE LEVEL KEY PLAN**

SCALE: 1:250 | DATE:06.05.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - M1 - DRP - 2100

ARCHITECTURE

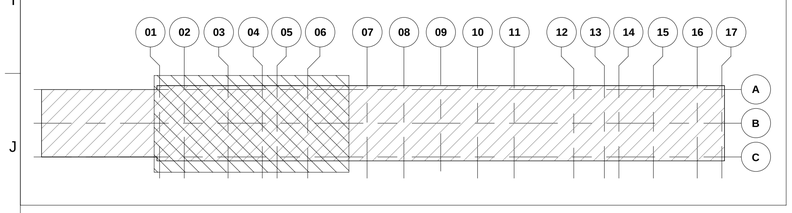
plot scale 50mm



1 MEZZANINE LEVEL PLAN (1 OF 3)

2101 Scale: 1 : 100

KEYPLAN



DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

ROOM SCHEDULE - MEZZANINE LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U20.1A	TVS FAN ROOM	282.00 m²
U20.3A	OTE FAN ROOM	48.40 m²
U20.3A	OTE FAN ROOM	46.02 m²
U20.4A	UPS FAN ROOM	87.94 m²
U20.4B	UPS FAN ROOM	89.08 m²
U20.3B	OTE FAN ROOM	46.02 m²
U20.3B	OTE FAN ROOM	48.40 m²
U20.1B & U48.2	TVS & COMPRESSOR ROOM	279.74 m²
U20.2A & U26B	TVS PANEL & DB ROOM	59.72 m²
-	SPARE ROOM	20.66 m²
ME93	ELECTRICAL & DB ROOM	40.69 m²
U48.1B	AHU ROOM	280.51 m²
U12.1	CREW CONTROL ROOM	41.08 m²
U48.1A	AHU ROOM	236.66 m²
-	PAID AREA	554.23 m²
-	RETAIL AREA	35.74 m²
-	RETAIL AREA	57.71 m²
ME60	UPS	6.88 m²
ME10	TVS	15.00 m²
ME11	TVS	15.00 m²
ME21	RELIEF	15.09 m²
ME50	OTE	6.75 m²
ME20	RELIEF	15.09 m²
ME51	OTE	6.84 m²
ME70	SVS	4.50 m²
ME80	EVS	4.50 m²
ME52	OTE	6.84 m²
ME61	UPS	6.88 m²
ME23	RELIEF	15.00 m²
ME13	TVS	10.00 m²
ME12	TVS	10.00 m²
ME22	RELIEF	15.00 m²
ME53	OTE	6.72 m²
ME92	ELECTRICAL ROOM	13.36 m²
U51	EER	20.96 m²
U20	MER	23.06 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES03	EMERGENCY STAIRCASE	22.79 m²
ES02	EMERGENCY STAIRCASE	23.04 m²
-	BOH CORRIDOR	129.46 m²
-	BOH CORRIDOR	133.32 m²
-	RELIEF PLENUM	29.07 m²
-	RELIEF PLENUM	11.01 m²
-	OTE PLENUM	7.35 m²
-	OTE PLENUM	19.50 m²
-	OTE PLENUM	7.44 m²
-	RELIEF PLENUM	17.10 m²
-	RELIEF PLENUM	16.57 m²
-	OTE PLENUM	7.38 m²
-	EXHAUST AIR	19.50 m²
-	OTE PLENUM	7.44 m²
FS01	FIREMEN STAIRCASE	16.58 m²
ES04	EMERGENCY STAIRCASE	22.79 m²
ES05	EMERGENCY STAIRCASE	23.04 m²
U 20.2B	TVS PANEL ROOM	41.80 m²
EL12	ELE SHAFT	2.58 m²
EL13	ELE SHAFT	2.58 m²
ME102	ASS EXHAUST	1.41 m²
ME103	ASS EXHAUST	1.41 m²
ME105	ASS VENTILATION	3.15 m²
ME104	ASS VENTILATION	3.15 m²
-	Spare Room	25.40 m²
-	Spare Room	25.40 m²
-	SEWAGE TANK	12.23 m²
MLM-69	ASS EXHAUST DUCT	1.37 m²

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

REVISION SCHEDULE

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HOST OR CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Scale: 1 : 1

AECOM-SYSTRA-CEG

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

NOTES:

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2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR			CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

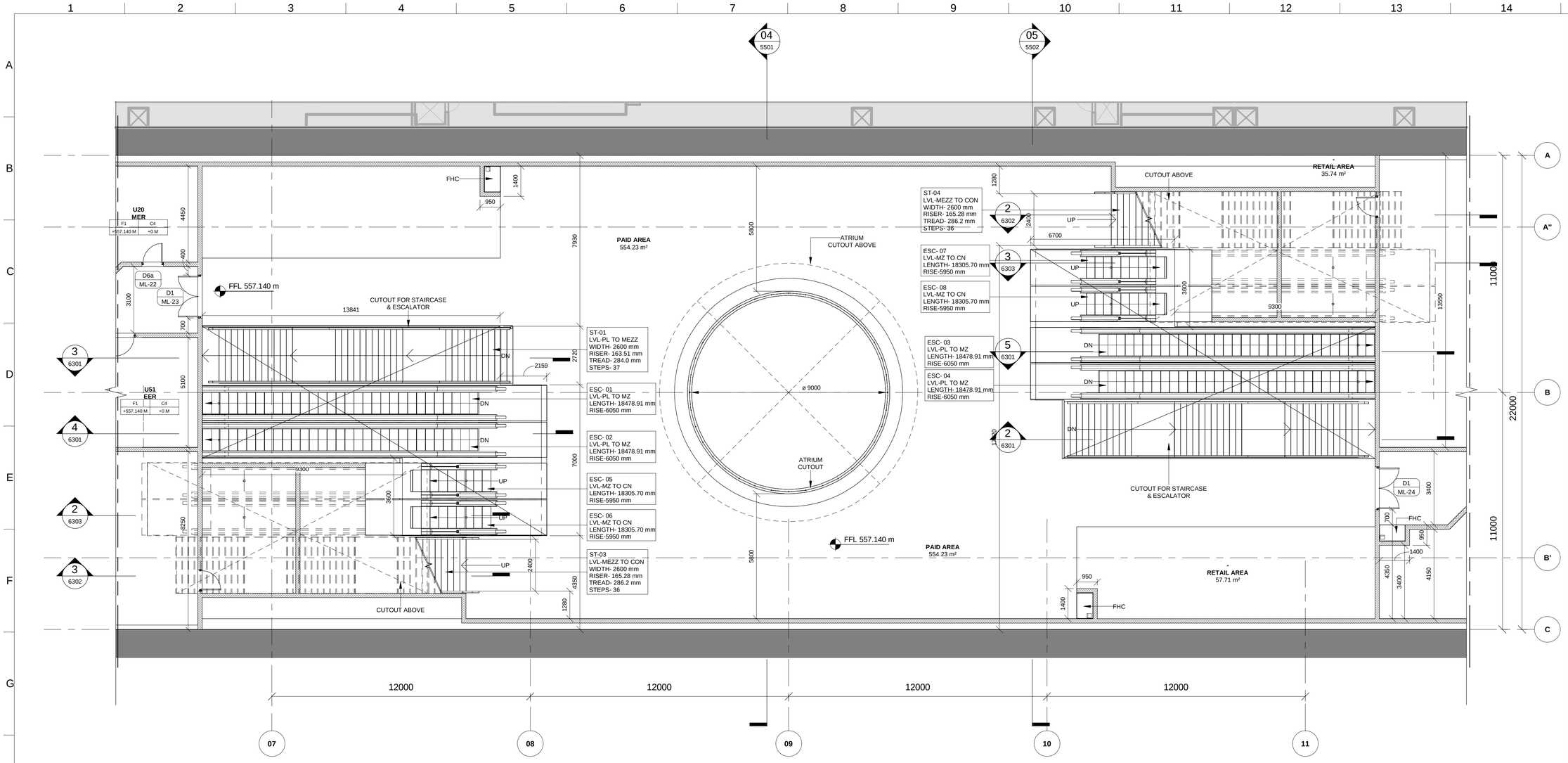
TITLE: **MEZZANINE LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - M1 - DRP - 2101

ARCHITECTURE

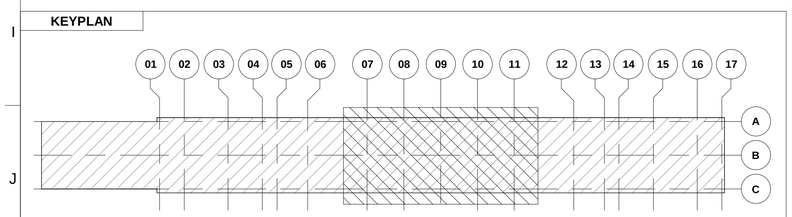
plot scale 50mm



1 MEZZANINE LEVEL PLAN (2 OF 3)

2102 Scale: 1 : 100

KEYPLAN



ROOM SCHEDULE - MEZZANINE LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U20.1A	TVS FAN ROOM	282.00 m²
U20.3A	OTE FAN ROOM	48.40 m²
U20.3A	OTE FAN ROOM	46.02 m²
U20.4A	UPS FAN ROOM	87.94 m²
U20.4B	UPS FAN ROOM	89.08 m²
U20.3B	OTE FAN ROOM	46.02 m²
U20.3B	OTE FAN ROOM	48.40 m²
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ME10	TVS	15.00 m²
ME11	TVS	15.00 m²
ME21	RELIEF	15.09 m²
ME50	OTE	6.75 m²
ME20	RELIEF	15.09 m²
ME51	OTE	6.84 m²
ME70	SVS	4.50 m²
ME80	EVS	4.50 m²
ME52	OTE	6.84 m²
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ME104	ASS VENTILATION	3.15 m²
-	Spare Room	25.40 m²
-	Spare Room	25.40 m²
-	SEWAGE TANK	12.23 m²
MLM-69	ASS EXHAUST DUCT	1.37 m²

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

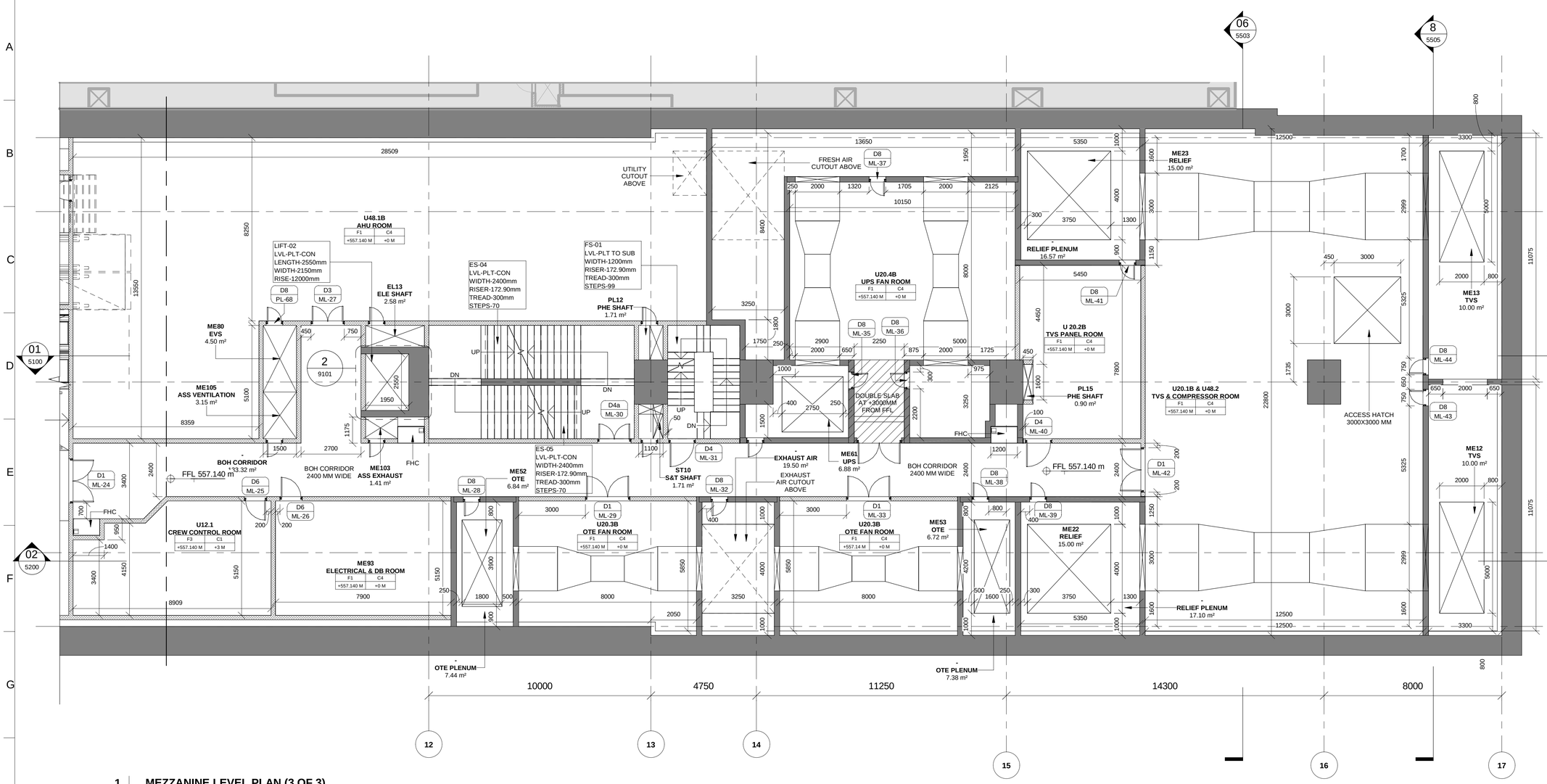
TITLE: **MEZZANINE LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - M1 - DRP - 2102

ARCHITECTURE

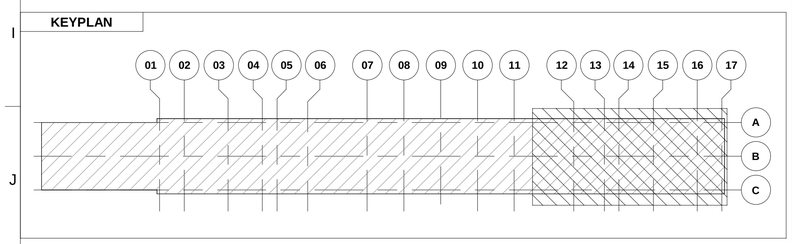
plot scale 50mm



1 MEZZANINE LEVEL PLAN (3 OF 3)

2103 Scale: 1 : 100

KEYPLAN



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D7	2100	1000	-
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D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
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LEGEND

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- CONCRETE SECTION
- SUB GRADE FILLED
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- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

ROOM SCHEDULE - MEZZANINE LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U20.1A	TVS FAN ROOM	282.00 m²
U20.3A	OTE FAN ROOM	48.40 m²
U20.3A	OTE FAN ROOM	46.02 m²
U20.4A	UPS FAN ROOM	87.94 m²
U20.4B	UPS FAN ROOM	89.08 m²
U20.3B	OTE FAN ROOM	46.02 m²
U20.3B	OTE FAN ROOM	48.40 m²
U20.1B & U48.2	TVS & COMPRESSOR ROOM	279.74 m²
U20.2A & U26B	TVS PANEL & DB ROOM	59.72 m²
-	SPARE ROOM	20.66 m²
ME93	ELECTRICAL & DB ROOM	40.69 m²
U48.1B	AHU ROOM	280.51 m²
U12.1	CREW CONTROL ROOM	41.08 m²
U48.1A	AHU ROOM	236.66 m²
-	PAID AREA	554.23 m²
-	RETAIL AREA	35.74 m²
-	RETAIL AREA	57.71 m²
ME60	UPS	6.88 m²
ME10	TVS	15.00 m²
ME11	TVS	15.00 m²
ME21	RELIEF	15.09 m²
ME50	OTE	6.75 m²
ME20	RELIEF	15.09 m²
ME51	OTE	6.84 m²
ME70	SVS	4.50 m²
ME80	EVS	4.50 m²
ME52	OTE	6.84 m²
ME61	UPS	6.88 m²
ME23	RELIEF	15.00 m²
ME13	TVS	10.00 m²
ME12	TVS	10.00 m²
ME22	RELIEF	15.00 m²
ME53	OTE	6.72 m²
ME92	ELECTRICAL ROOM	13.36 m²
U51	EER	20.96 m²
U20	MER	23.06 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES03	EMERGENCY STAIRCASE	22.79 m²
ES02	EMERGENCY STAIRCASE	23.04 m²
-	BOH CORRIDOR	129.46 m²
-	BOH CORRIDOR	133.32 m²
-	RELIEF PLENUM	29.07 m²
-	RELIEF PLENUM	11.01 m²
-	OTE PLENUM	7.35 m²
-	OTE PLENUM	19.50 m²
-	OTE PLENUM	7.44 m²
-	RELIEF PLENUM	17.10 m²
-	RELIEF PLENUM	16.57 m²
-	OTE PLENUM	7.38 m²
-	EXHAUST AIR	19.50 m²
-	OTE PLENUM	7.44 m²
FS01	FIREMEN STAIRCASE	16.58 m²
ES04	EMERGENCY STAIRCASE	22.79 m²
ES05	EMERGENCY STAIRCASE	23.04 m²
U 20.2B	TVS PANEL ROOM	41.80 m²
EL12	ELE SHAFT	2.58 m²
EL13	ELE SHAFT	2.58 m²
ME102	ASS EXHAUST	1.41 m²
ME103	ASS EXHAUST	1.41 m²
ME105	ASS VENTILATION	3.15 m²
ME104	ASS VENTILATION	3.15 m²
-	Spare Room	25.40 m²
-	Spare Room	25.40 m²
-	SEWAGE TANK	12.23 m²
MLM-69	ASS EXHAUST DUCT	1.37 m²

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY,AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "……REV……" APPROVED ON DATE ……

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT		
SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:
NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

N.I.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

TITLE: **MEZZANINE LEVEL PLAN (3 OF 3)**

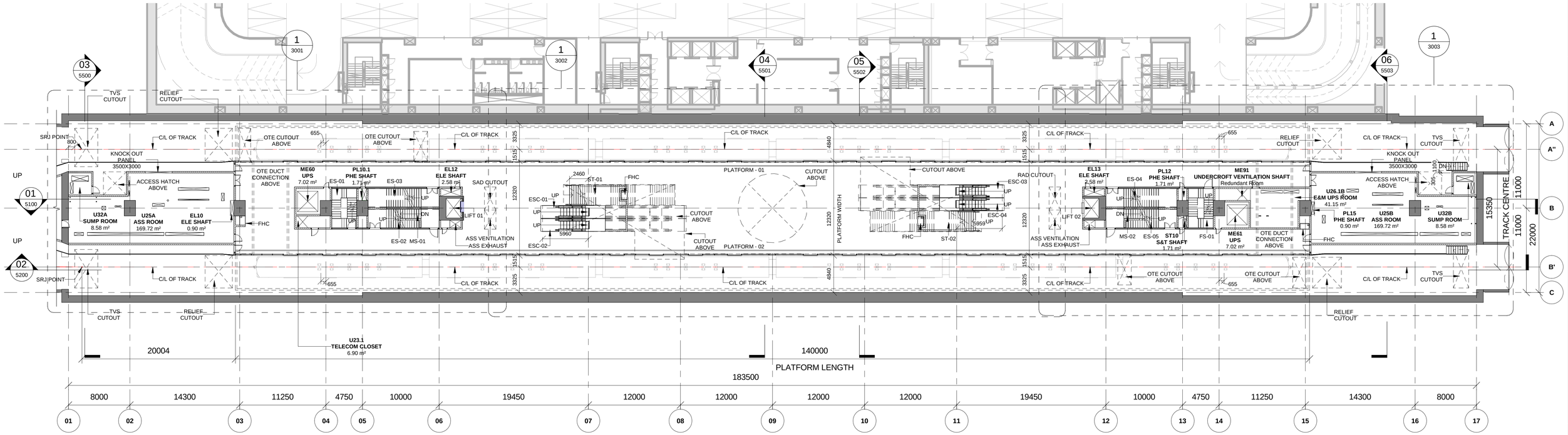
SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - M1 - DRP - 2103

ARCHITECTURE

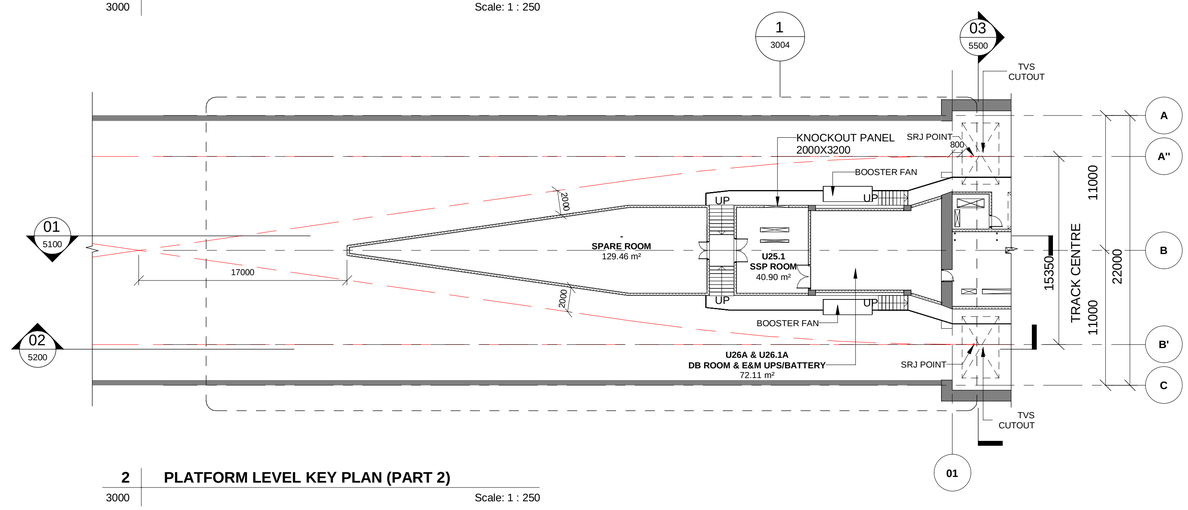
plot scale 50mm

TO SHIVAJI NAGAR STATION



1 | **PLATFORM LEVEL KEY PLAN (PART 1)**

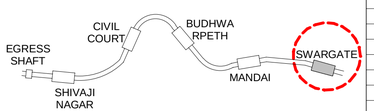
3000 | Scale: 1 : 250



2 | **PLATFORM LEVEL KEY PLAN (PART 2)**

3000 | Scale: 1 : 250

KEY PLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

ROOM SCHEDULE - PLATFORM...

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U25A	ASS ROOM	169.72 m²
U25B	ASS ROOM	169.72 m²
U26.1B	E&M UPS ROOM	41.15 m²
U32A	SUMP ROOM	8.58 m²
U32B	SUMP ROOM	8.58 m²
U26A & U26.1A	DB ROOM & E&M UPS/BATTERY	72.11 m²
U25.1	SSP ROOM	40.90 m²
-	SPARE ROOM	129.46 m²
EL10	ELE SHAFT	0.90 m²
PL15	PHE SHAFT	0.90 m²
ME60	UPS	7.02 m²
ME61	UPS	7.02 m²
U23.1	TELECOM CLOSET	6.90 m²
PL10.1	PHE SHAFT	1.71 m²
PL12	PHE SHAFT	1.71 m²
ST10	S&T SHAFT	1.71 m²
ME91	UNDERCROFT VENTILATION SHAFT	Redundant Room
-	SERVICE CORRIDOR	40.44 m²

ROOM SCHEDULE - PLATFORM...

ROOM NUMBER	ROOM NAME	AREA (sqm.)
-	SERVICE CORRIDOR	26.51 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES02	EMERGENCY STAIRCASE	21.41 m²
ES03	EMERGENCY STAIRCASE	22.44 m²
ES04	EMERGENCY STAIRCASE	22.44 m²
ES05	EMERGENCY STAIRCASE	21.41 m²
FS01	FIREMEN STAIRCASE	16.58 m²
-	SERVICE CORRIDOR	40.44 m²
-	SERVICE CORRIDOR	26.51 m²
EL12	ELE SHAFT	2.58 m²
EL13	ELE SHAFT	2.58 m²

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV....." APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AECOM-SYSTRA-CEG	AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

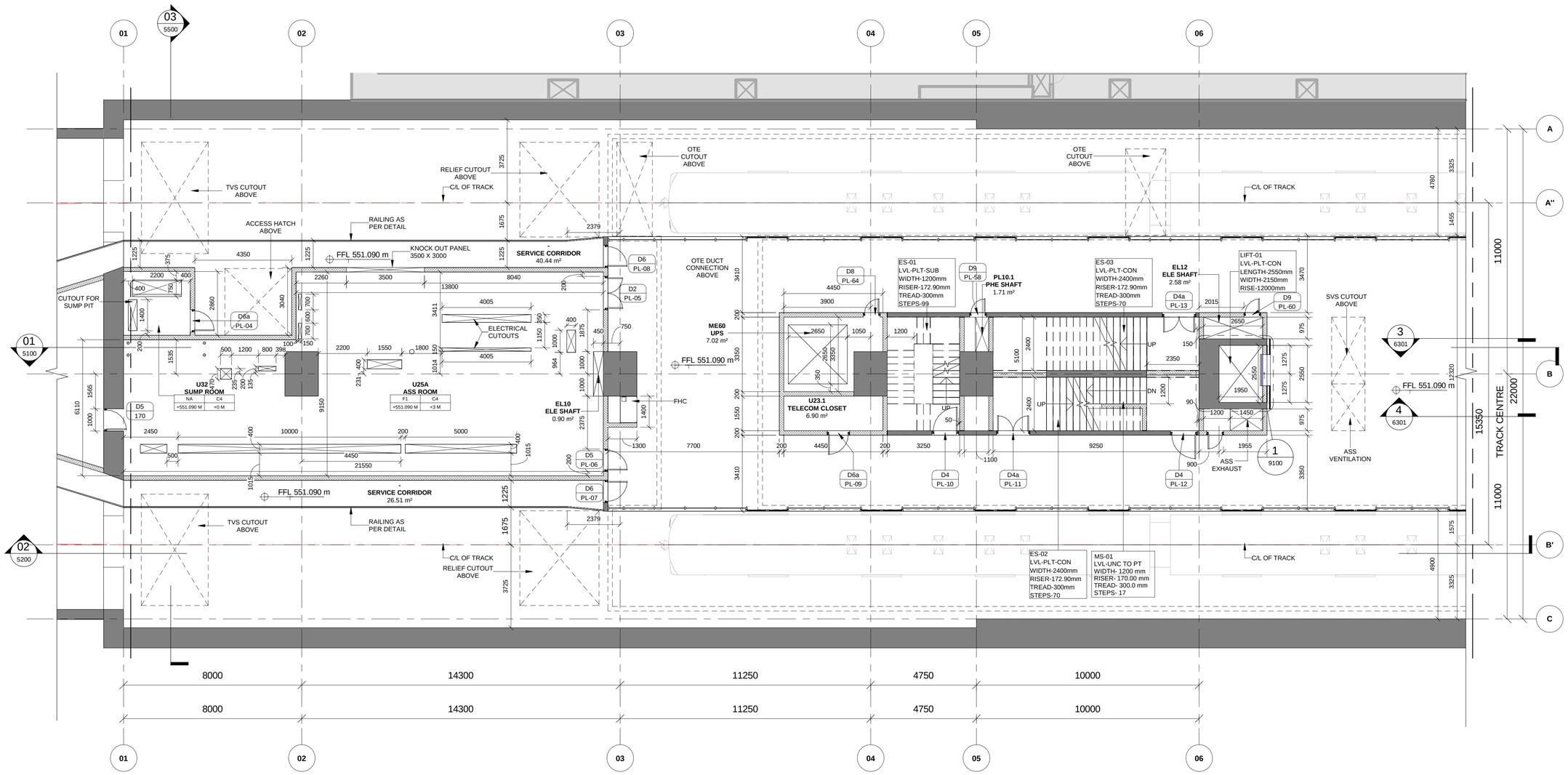
TITLE: **PLATFORM LEVEL KEY PLAN**

SCALE: 1:250	DATE:19.03.2021	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - PT - DRP - 3000

ARCHITECTURE

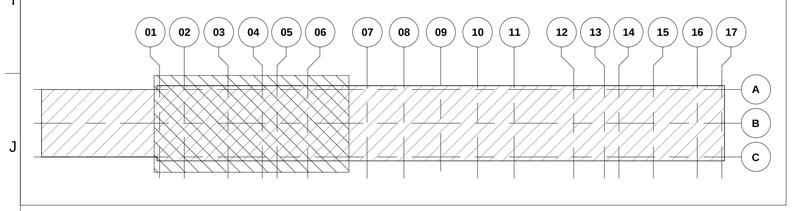
plot scale 50mm



1 PLATFORM LEVEL PLAN (1 OF 4)

3001 | Scale: 1 : 100

KEYPLAN



ROOM SCHEDULE - PLATFORM LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U25A	ASS ROOM	169.72 m²
U25B	ASS ROOM	169.72 m²
U26.1B	E&M UPS ROOM	41.15 m²
U32A	SUMP ROOM	8.58 m²
U32B	SUMP ROOM	8.58 m²
U26A & U26.1A	DB ROOM & E&M UPS/BATTERY	72.11 m²
U25.1	SSP ROOM	40.90 m²
-	SPARE ROOM	129.46 m²
EL10	ELE SHAFT	0.90 m²
PL15	PHE SHAFT	0.90 m²
ME60	UPS	7.02 m²
ME61	UPS	7.02 m²
U23.1	TELECOM CLOSET	6.90 m²
PL10.1	PHE SHAFT	1.71 m²
PL12	PHE SHAFT	1.71 m²
ST10	S&T SHAFT	1.71 m²
ME91	UNDERCROFT VENTILATION SHAFT	Redundant Room
-	SERVICE CORRIDOR	40.44 m²
-	SERVICE CORRIDOR	26.51 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES02	EMERGENCY STAIRCASE	21.41 m²
ES03	EMERGENCY STAIRCASE	22.44 m²
ES04	EMERGENCY STAIRCASE	22.44 m²
ES05	EMERGENCY STAIRCASE	21.41 m²
FS01	FIREMEN STAIRCASE	16.58 m²
-	SERVICE CORRIDOR	40.44 m²
-	SERVICE CORRIDOR	26.51 m²
EL12	ELE SHAFT	2.58 m²
EL13	ELE SHAFT	2.58 m²

OPENING SCHEDULE

NO.	LENGTH	HEIGHT	SILL LVL
1	3500mm	3000mm	FFL +00
2	3500mm	3000mm	FFL +00
3	2000mm	3200mm	FFL +00

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert	
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

NOTES:

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13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "....." REV..... " APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	
DATE: 03.09.2021	DATE: 03.09.2021	DATE: 03.09.2021	DATE: 03.09.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

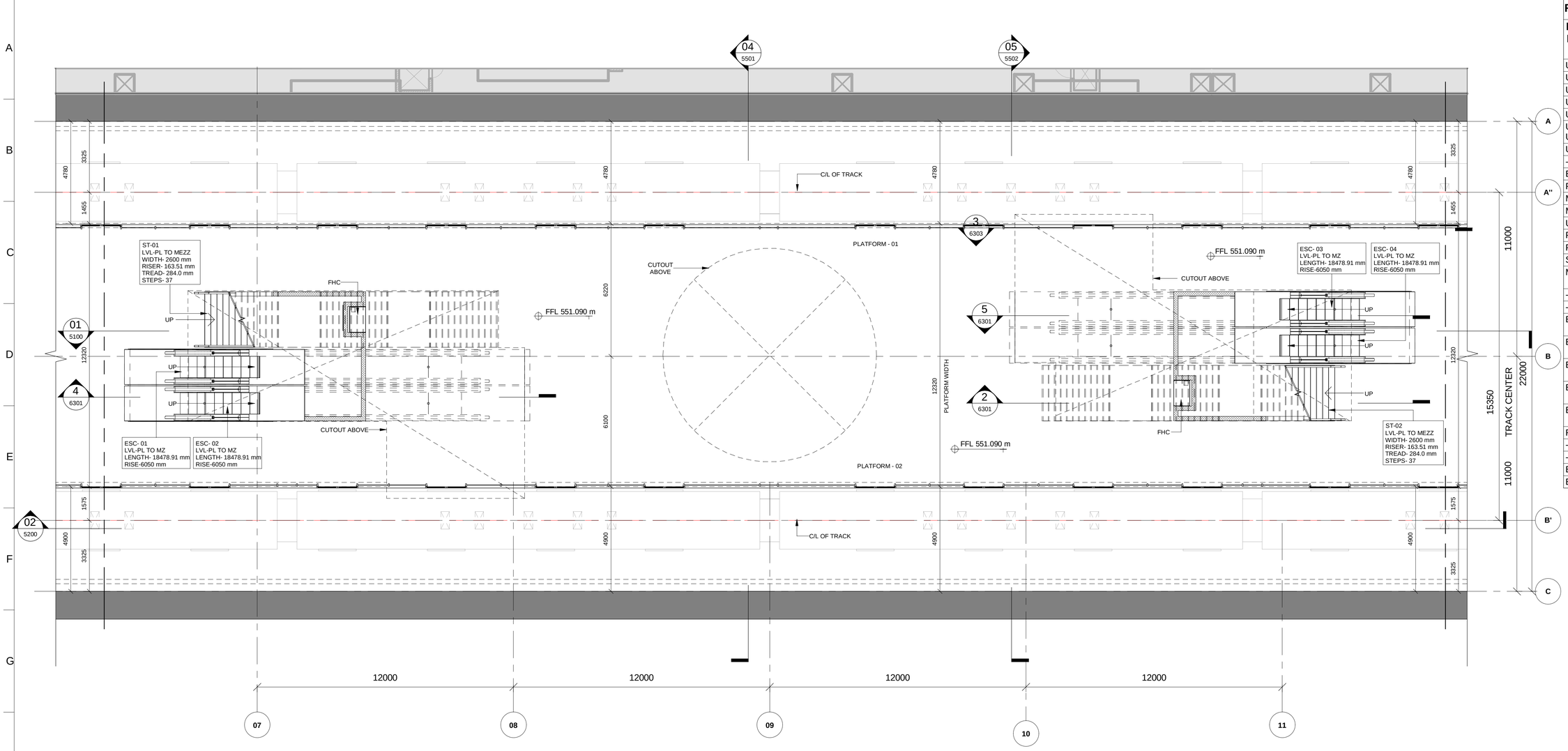
TITLE: **PLATFORM LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE:03.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - PT - DRP - 3001

ARCHITECTURE

plot scale 50mm



1 | **PLATFORM LEVEL PLAN (2 OF 4)**
3002 | Scale: 1 : 100

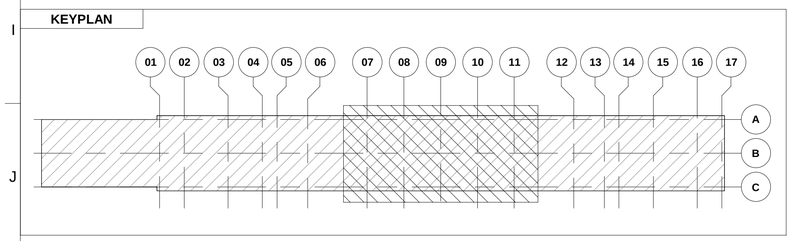
ROOM SCHEDULE - PLATFORM LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U25A	ASS ROOM	169.72 m²
U25B	ASS ROOM	169.72 m²
U26.1B	E&M UPS ROOM	41.15 m²
U32A	SUMP ROOM	8.58 m²
U32B	SUMP ROOM	8.58 m²
U26A & U26.1A	DB ROOM & E&M UPS/BATTERY	72.11 m²
U25.1	SSP ROOM	40.90 m²
-	SPARE ROOM	129.46 m²
EL10	ELE SHAFT	0.90 m²
PL15	PHE SHAFT	0.90 m²
ME60	UPS	7.02 m²
ME61	UPS	7.02 m²
U23.1	TELECOM CLOSET	6.90 m²
PL10.1	PHE SHAFT	1.71 m²
PL12	PHE SHAFT	1.71 m²
ST10	S&T SHAFT	1.71 m²
ME91	UNDERCROFT VENTILATION SHAFT	Redundant Room
-	SERVICE CORRIDOR	40.44 m²
-	SERVICE CORRIDOR	26.51 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES02	EMERGENCY STAIRCASE	21.41 m²
ES03	EMERGENCY STAIRCASE	22.44 m²
ES04	EMERGENCY STAIRCASE	22.44 m²
ES05	EMERGENCY STAIRCASE	21.41 m²
FS01	FIREMEN STAIRCASE	16.58 m²
-	SERVICE CORRIDOR	40.44 m²
-	SERVICE CORRIDOR	26.51 m²
EL12	ELE SHAFT	2.58 m²
EL13	ELE SHAFT	2.58 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

KEYPLAN



REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

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AECOM-SYSTRA-CEG

Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert	
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

NOTES:

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7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY,AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "……REV……" APPROVED ON DATE ……

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

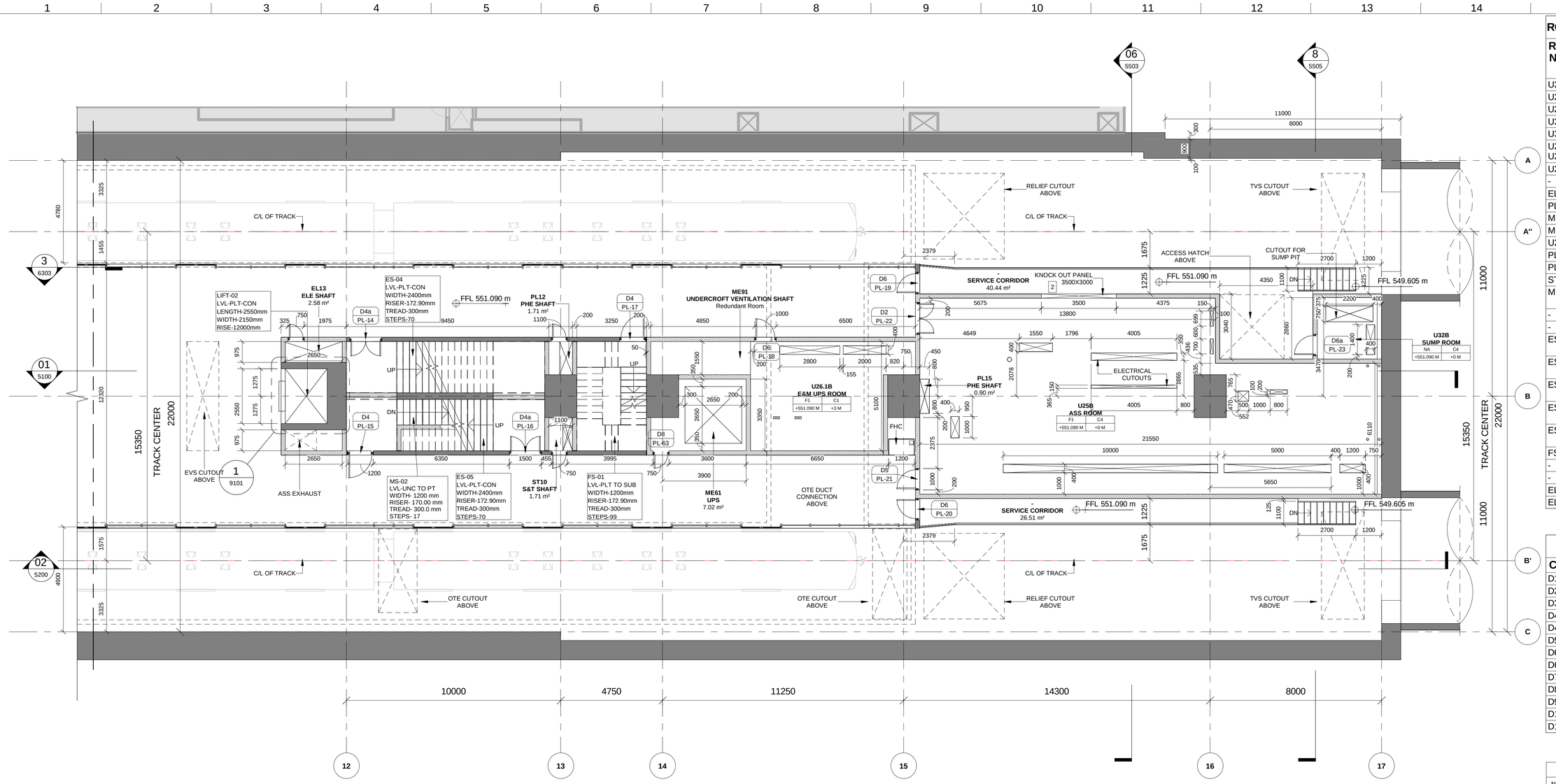
TITLE: **PLATFORM LEVEL PLAN (2 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - PT - DRP - 3002

ARCHITECTURE

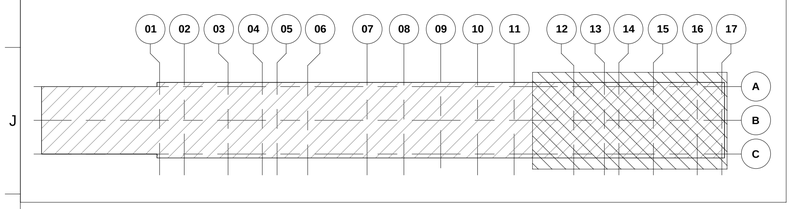
plot scale 50mm



1 PLATFORM LEVEL PLAN (3 OF 4)

3003 — Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

ROOM SCHEDULE - PLATFORM LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U25A	ASS ROOM	169.72 m²
U25B	ASS ROOM	169.72 m²
U26.1B	E&M UPS ROOM	41.15 m²
U32A	SUMP ROOM	8.58 m²
U32B	SUMP ROOM	8.58 m²
U26A & U26.1A	DB ROOM & E&M UPS/BATTERY	72.11 m²
U25.1	SSP ROOM	40.90 m²
-	SPARE ROOM	129.46 m²
EL10	ELE SHAFT	0.90 m²
PL15	PHE SHAFT	0.90 m²
ME60	UPS	7.02 m²
ME61	UPS	7.02 m²
U23.1	TELECOM CLOSET	6.90 m²
PL10.1	PHE SHAFT	1.71 m²
PL12	PHE SHAFT	1.71 m²
ST10	S&T SHAFT	1.71 m²
ME91	UNDERCROFT VENTILATION SHAFT	Redundant Room
-	SERVICE CORRIDOR	40.44 m²
-	SERVICE CORRIDOR	26.51 m²
ES01	EMERGENCY STAIRCASE	16.58 m²
ES02	EMERGENCY STAIRCASE	21.41 m²
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-	SERVICE CORRIDOR	26.51 m²
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EL13	ELE SHAFT	2.58 m²

DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
D4	2100	1200	1.5hr(90 min)
D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

OPENING SCHEDULE

NO.	LENGTH	HEIGHT	SILL LVL
1	3500mm	3000mm	FFL +00
2	3500mm	3000mm	FFL +00
3	2000mm	3200mm	FFL +00

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
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B03.2	04/09/2021	Updated Brick wall under Public Staircase	

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

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AECOM-SYSTRA-CEG

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

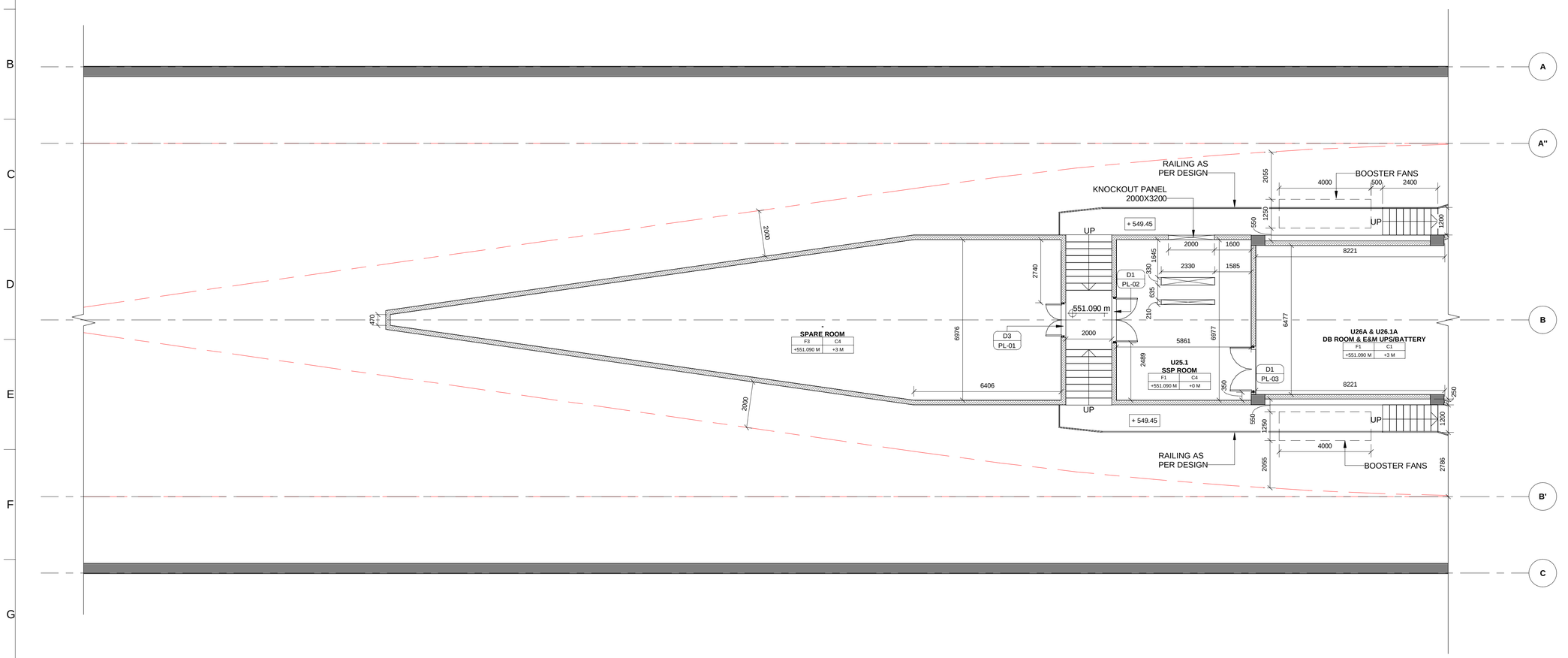
TITLE: **PLATFORM LEVEL PLAN (3 OF 4)**

SCALE: 1:100 | DATE:19.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - PT - DRP - 3003

ARCHITECTURE

plot scale 50mm



ROOM SCHEDULE - PLATFORM LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
U25A	ASS ROOM	169.72 m²
U25B	ASS ROOM	169.72 m²
U26.1B	E&M UPS ROOM	41.15 m²
U32A	SUMP ROOM	8.58 m²
U32B	SUMP ROOM	8.58 m²
U26A & U26.1A	DB ROOM & E&M UPS/BATTERY	72.11 m²
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D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
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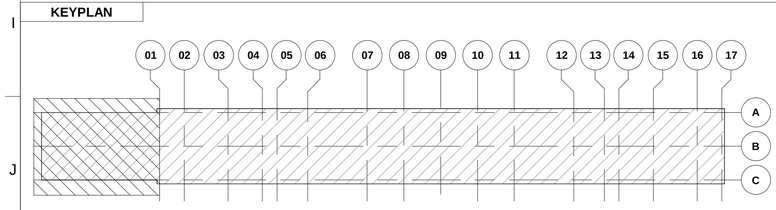
OPENING SCHEDULE

NO.	LENGTH	HEIGHT	SILL LVL
1	3500mm	3000mm	FFL +00
2	3500mm	3000mm	FFL +00
3	2000mm	3200mm	FFL +00

1 PLATFORM LEVEL PLAN (4 OF 4)

3004 Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

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B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

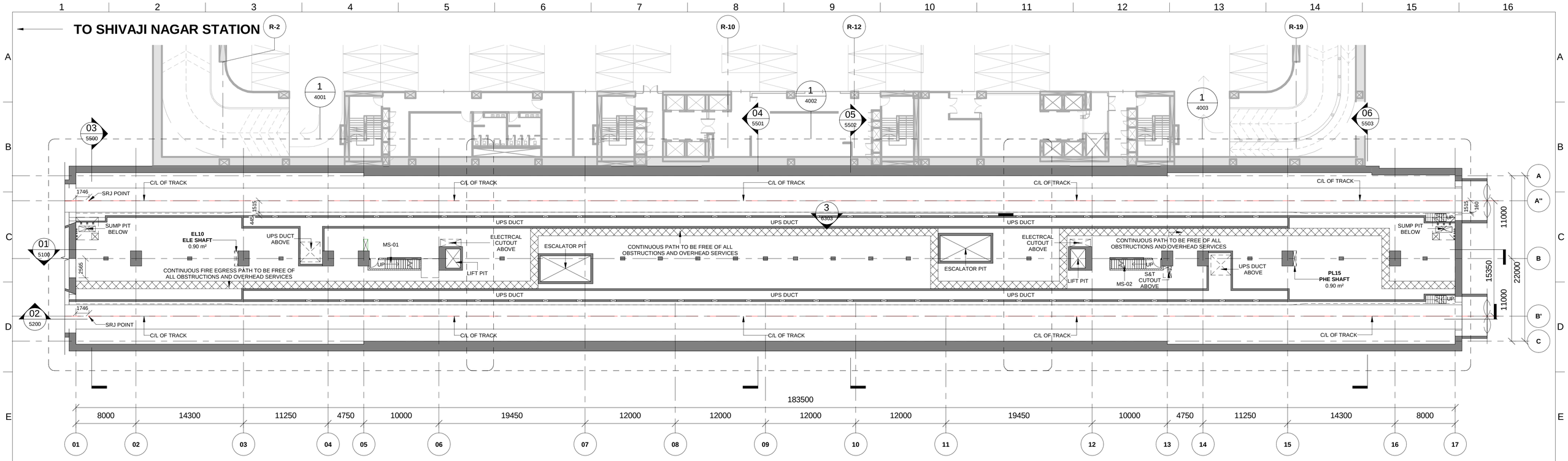
TITLE: **PLATFORM LEVEL PLAN (4 OF 4)**

SCALE: 1:100 | DATE:19.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - PT - DRP - 3004

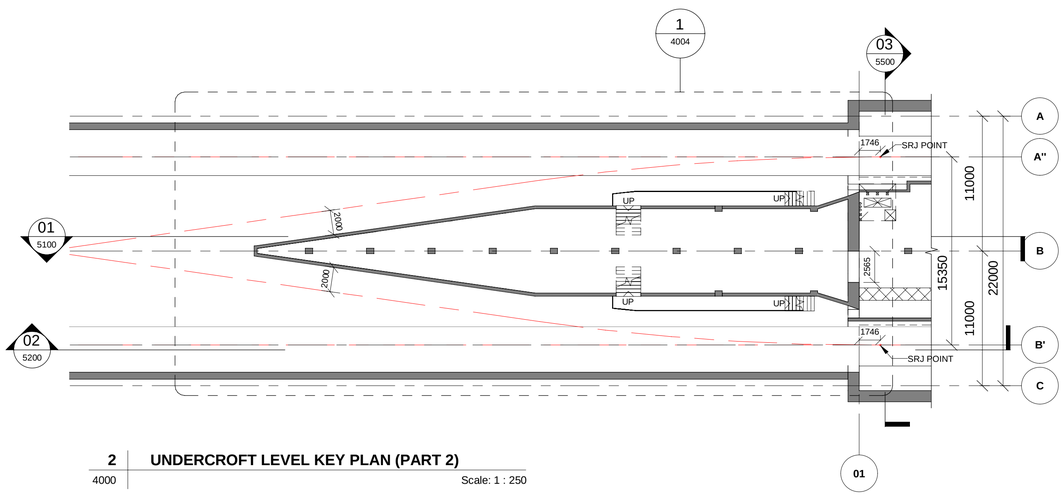
ARCHITECTURE

plot scale 50mm



1 4000 **UNDERCROFT LEVEL KEY PLAN (PART 1)**

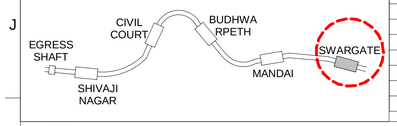
Scale: 1 : 250



2 4000 **UNDERCROFT LEVEL KEY PLAN (PART 2)**

Scale: 1 : 250

KEY PLAN



REVISION SCHEDULE

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B03.1	04/09/2021	Updated RCC wall around E. Staircase	
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ROOM SCHEDULE - UNDERCROFT LEVEL

ROOM NUMBER	ROOM NAME	AREA (sqm.)
MS-01	MAINTAINENCE STAIRCASE	8.04 m²
MS-02	MAINTAINENCE STAIRCASE	8.04 m²

NOTES:

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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR			CONTRACTOR	PROOF CONSULTANT	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

Proof checked by GC

Being Given No Objection

Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert	
AECOM-SYSTRA-CEG	AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

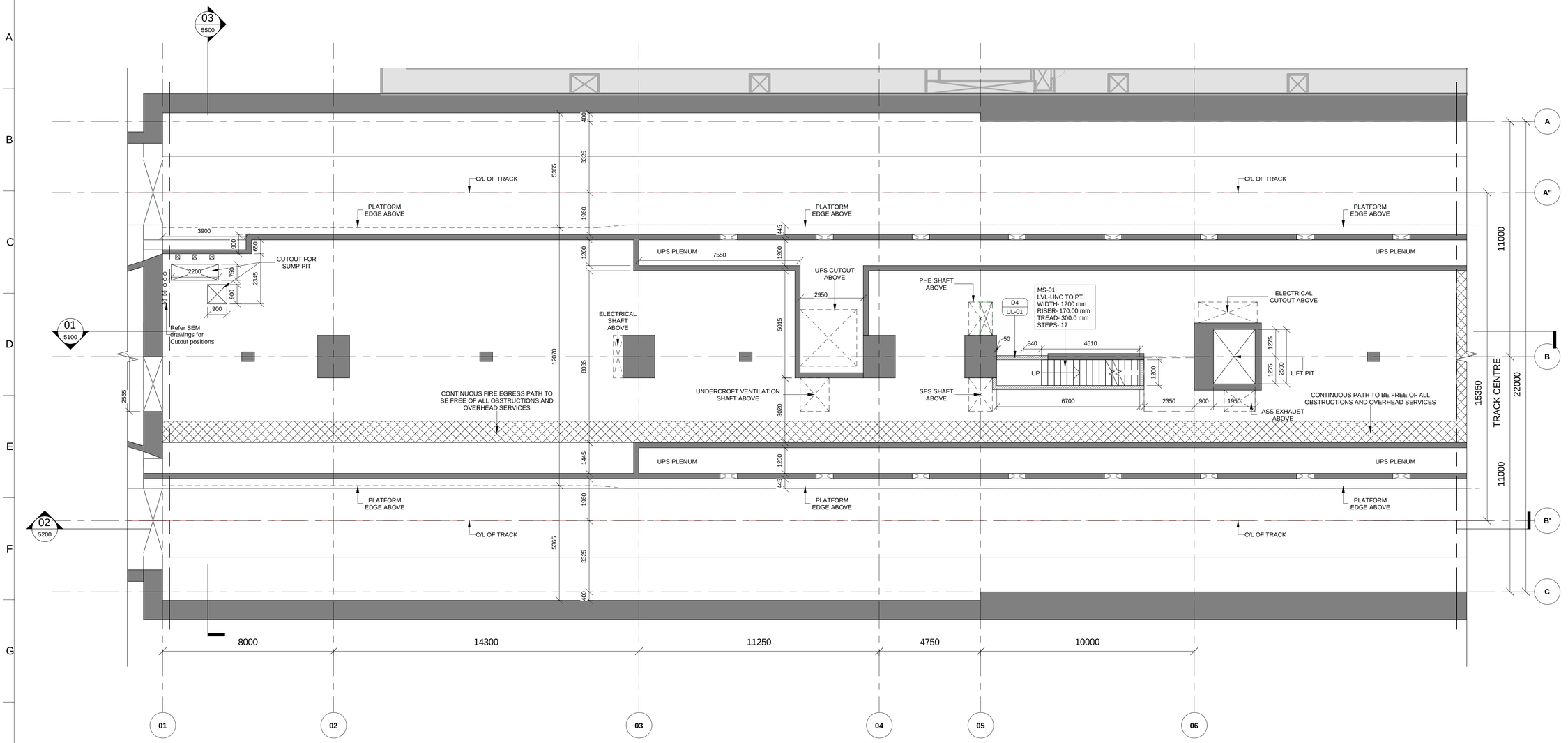
TITLE: **UNDERCROFT LEVEL KEY PLAN**

SCALE: 1:250 | DATE:19.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - UL - DRP - 4000

ARCHITECTURE

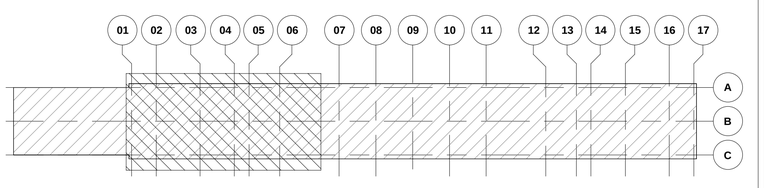
plot scale 50mm



1 UNDERCROFT LEVEL PLAN (1 OF 4)

4001 Scale: 1 : 100

KEYPLAN



DOOR SCHEDULE

Code	Height	Width	Fire Rating
D1	2400	2000	1.5hr(90 min)
D2	2400	1500	3hr(180 min)
D3	2400	1500	1.5hr(90 min)
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D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AECOM-SYSTRA-CEG	AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

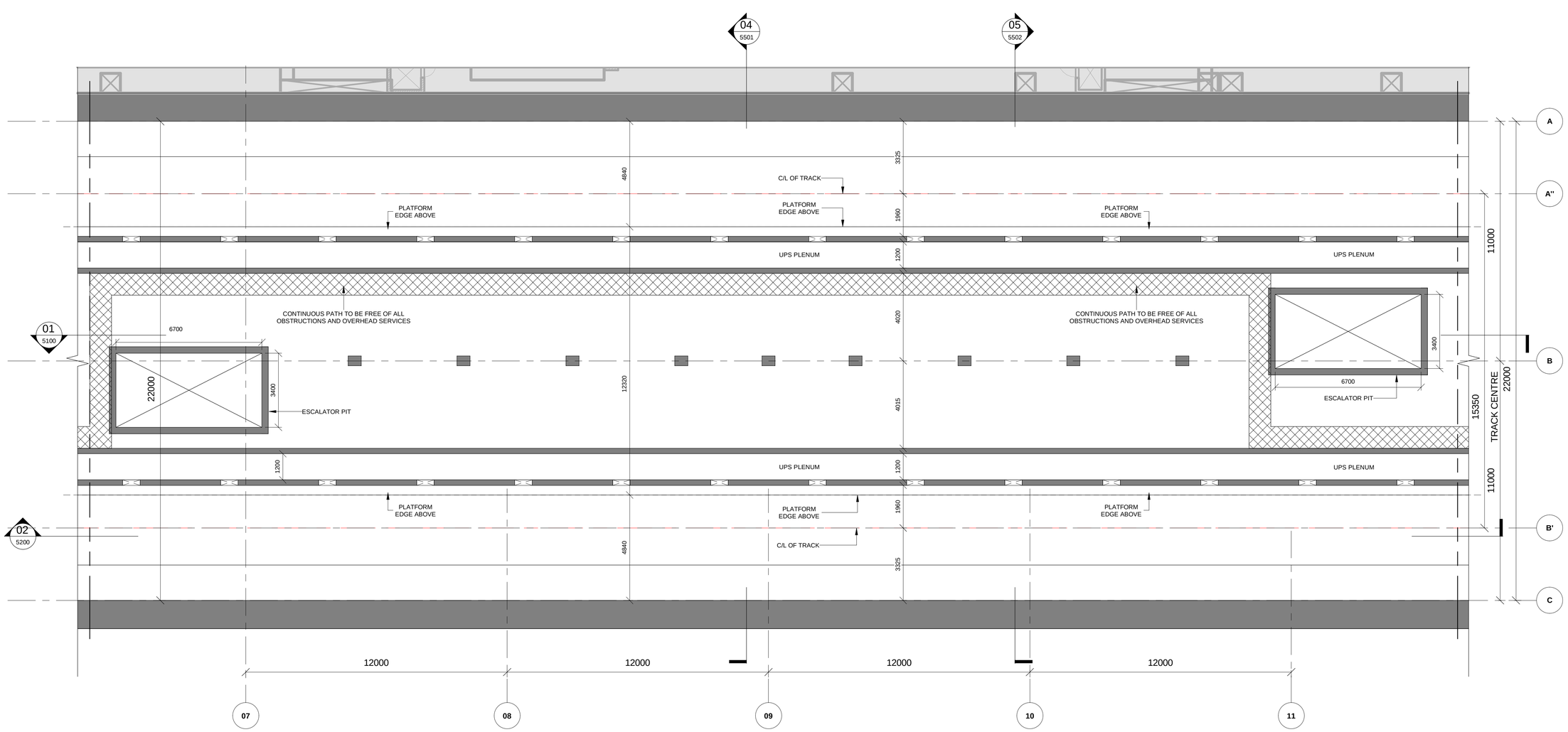
TITLE: **UNDERCROFT LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE:19.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - UL - DRP - 4001

ARCHITECTURE

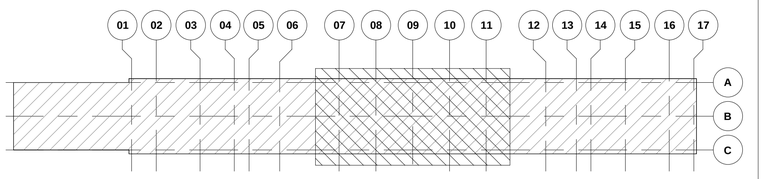
plot scale 50mm



1 UNDERCROFT LEVEL PLAN (2 OF 4)

4002 Scale: 1 : 100

KEYPLAN



DOOR SCHEDULE

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D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
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B03.2	04/09/2021	Updated Brick wall under Public Staircase	

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

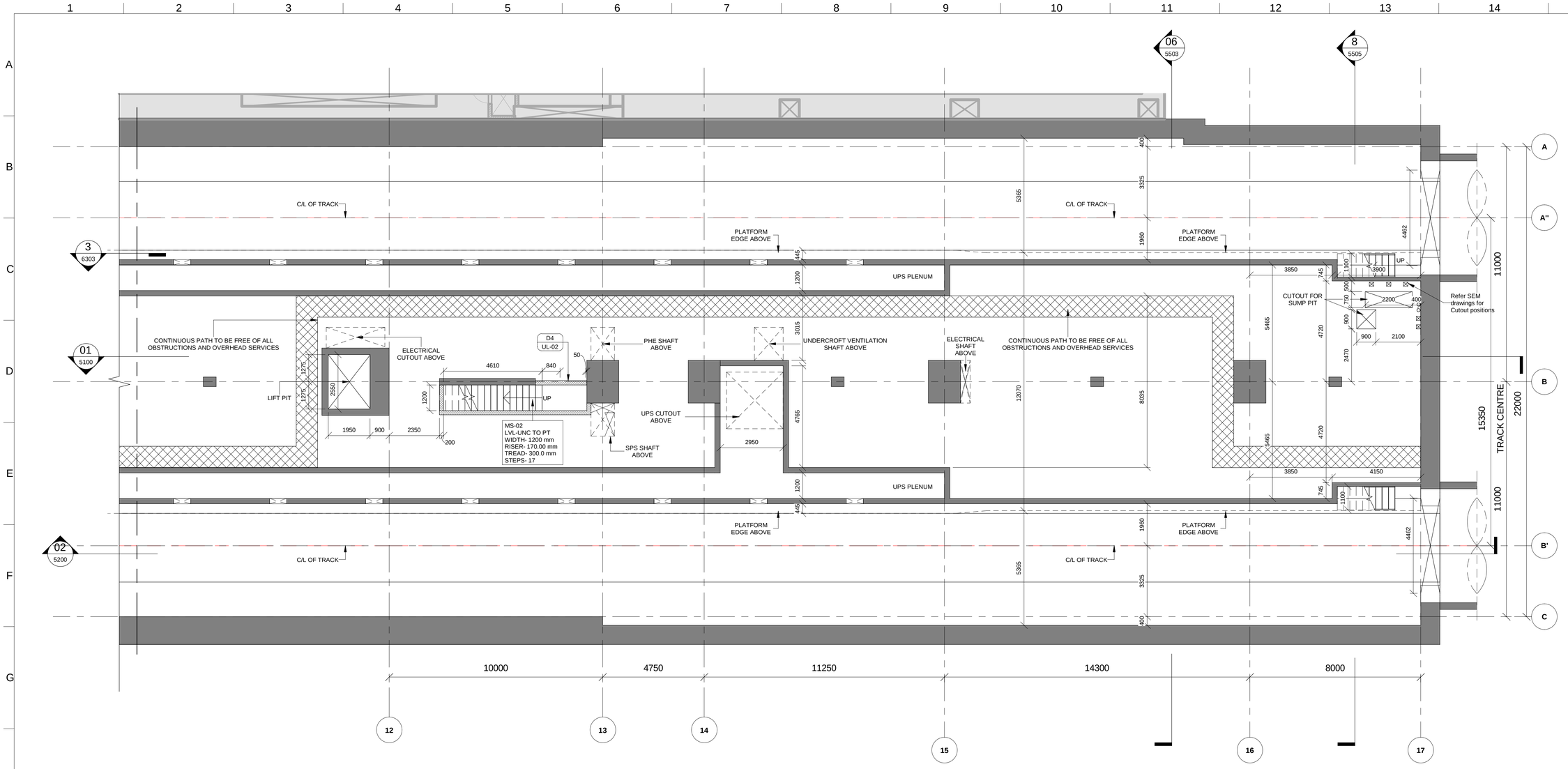
TITLE: **UNDERCROFT LEVEL PLAN (2 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - UL - DRP - 4002

ARCHITECTURE

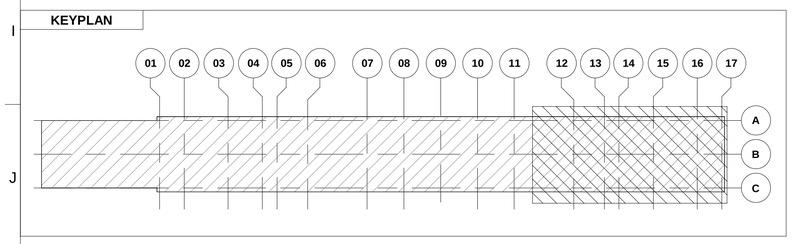
plot scale 50mm



1 UNDERCROFT LEVEL PLAN (3 OF 4)

4003 Scale: 1 : 100

KEYPLAN



DOOR SCHEDULE

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D4a	2100	1500	1.5hr(90 min)
D5	2100	1000	3hr(180 min)
D6	2100	1000	1.5hr(90 min)
D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
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AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

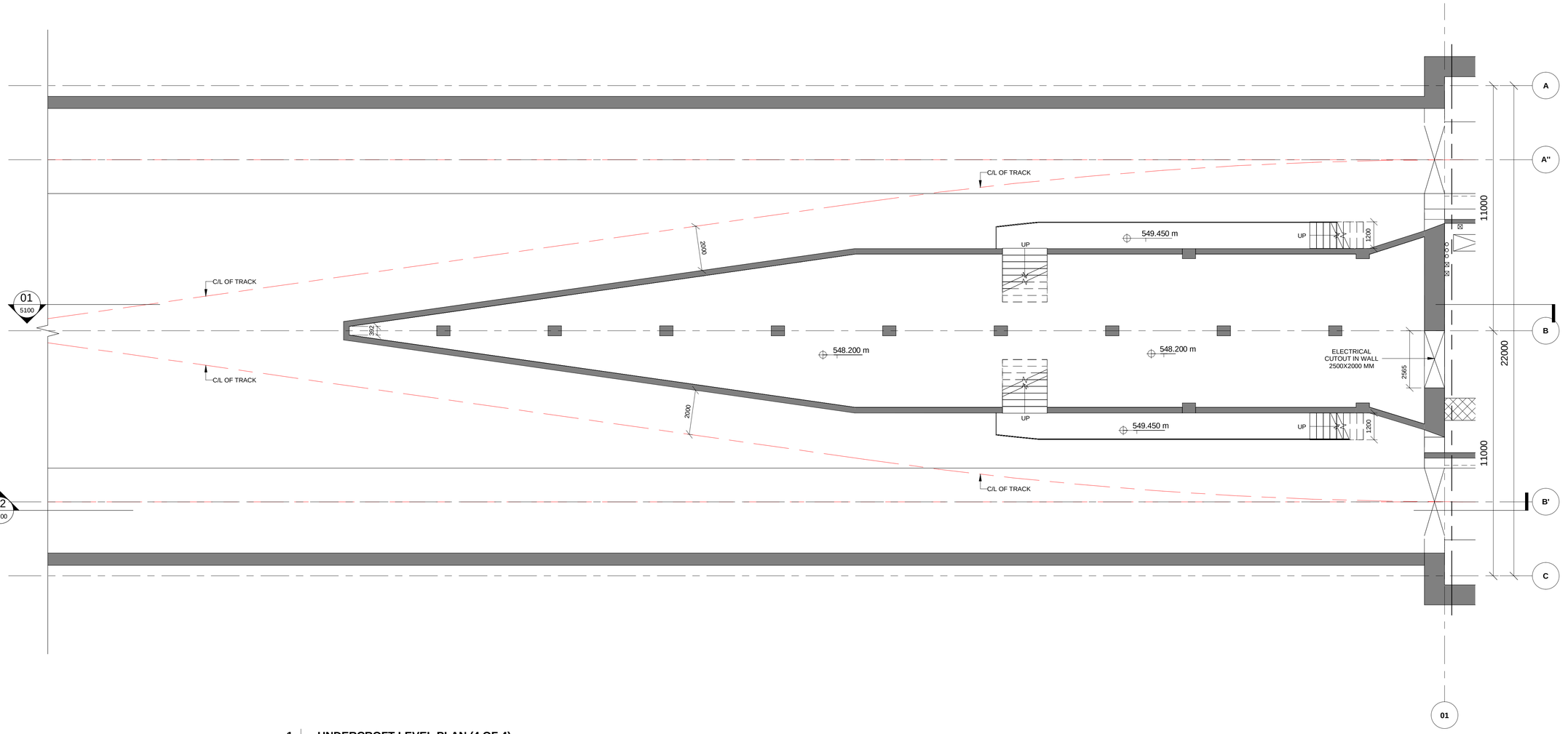
TITLE: **UNDERCROFT LEVEL PLAN (3 OF 4)**

SCALE: 1:100 | DATE:19.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - UL - DRP - 4003

ARCHITECTURE

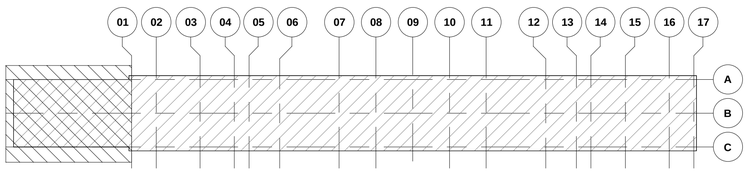
plot scale 50mm



1 UNDERCROFT LEVEL PLAN (4 OF 4)

4004 Scale: 1 : 100

KEYPLAN



DOOR SCHEDULE

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D6a	2100	1000	1.5hr(90 min)
D7	2100	1000	-
D8	2000	750	1.5hr(90 min)
D9	2000	750	-
D10	2000	1000	1.5hr(90 min)
D11	2100	1000	1.5hr(90 min)

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

REVISION SCHEDULE

REV. NO.	DATE	DESCRIPTION	SIGN.
B03	17/03/2021	Sump pits revised & track staircase added	
		Booster fans updated, UPS cutouts shown	
B03.1	04/09/2021	Updated RCC wall around E. Staircase	
		as per Structural Requirements	
B03.2	04/09/2021	Updated Brick wall under Public Staircase	

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE: 19.03.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

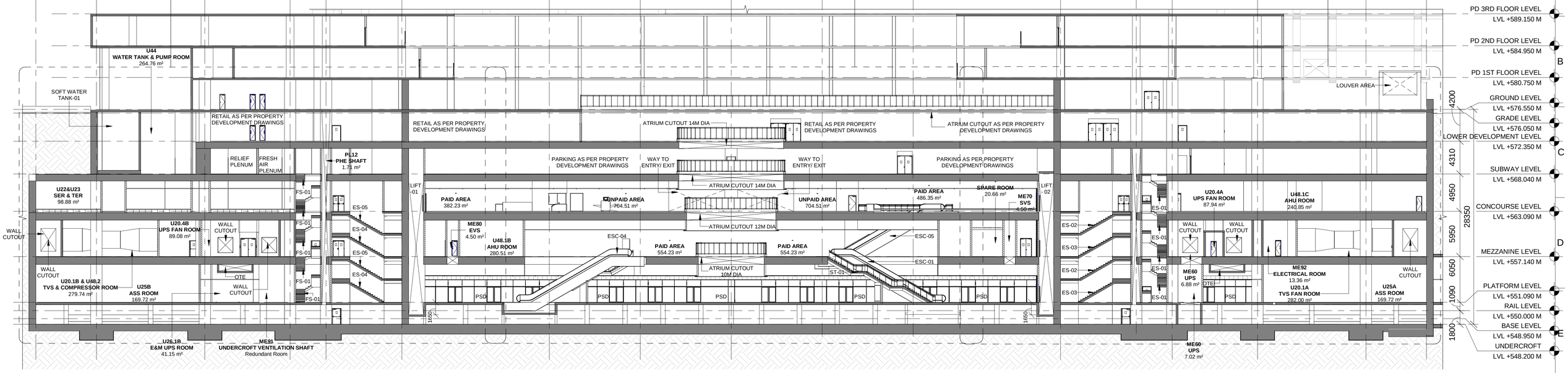
TITLE: **UNDERCROFT LEVEL PLAN (4 OF 4)**

SCALE: 1:100 | DATE:19.03.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SGT - UL - DRP - 4004

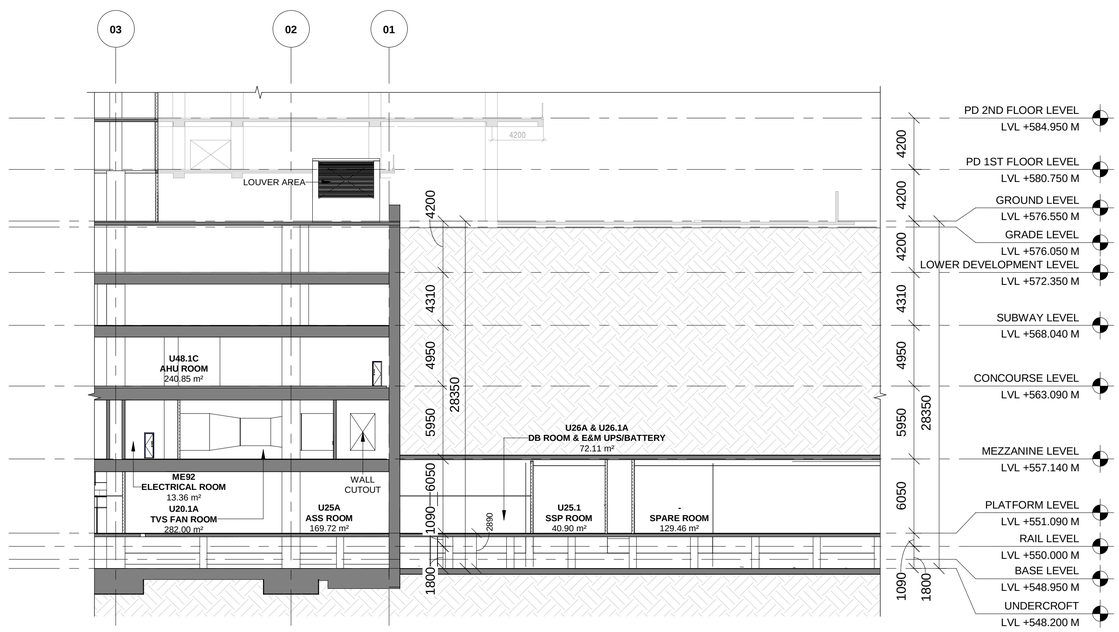
ARCHITECTURE

plot scale 50mm



01 | **LONG SECTION - 01 (PART-1)**

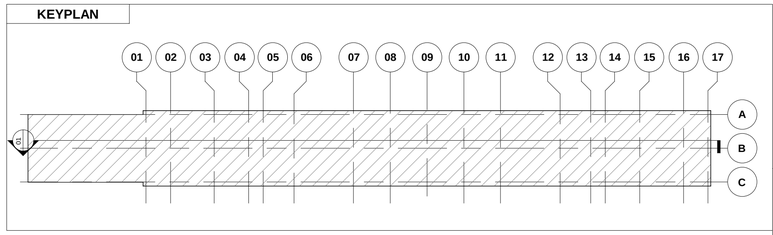
5100 | Scale: 1 : 250



00 | **LONG SECTION - 01 (PART-2)**

5100 | Scale: 1 : 250

KEYPLAN



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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

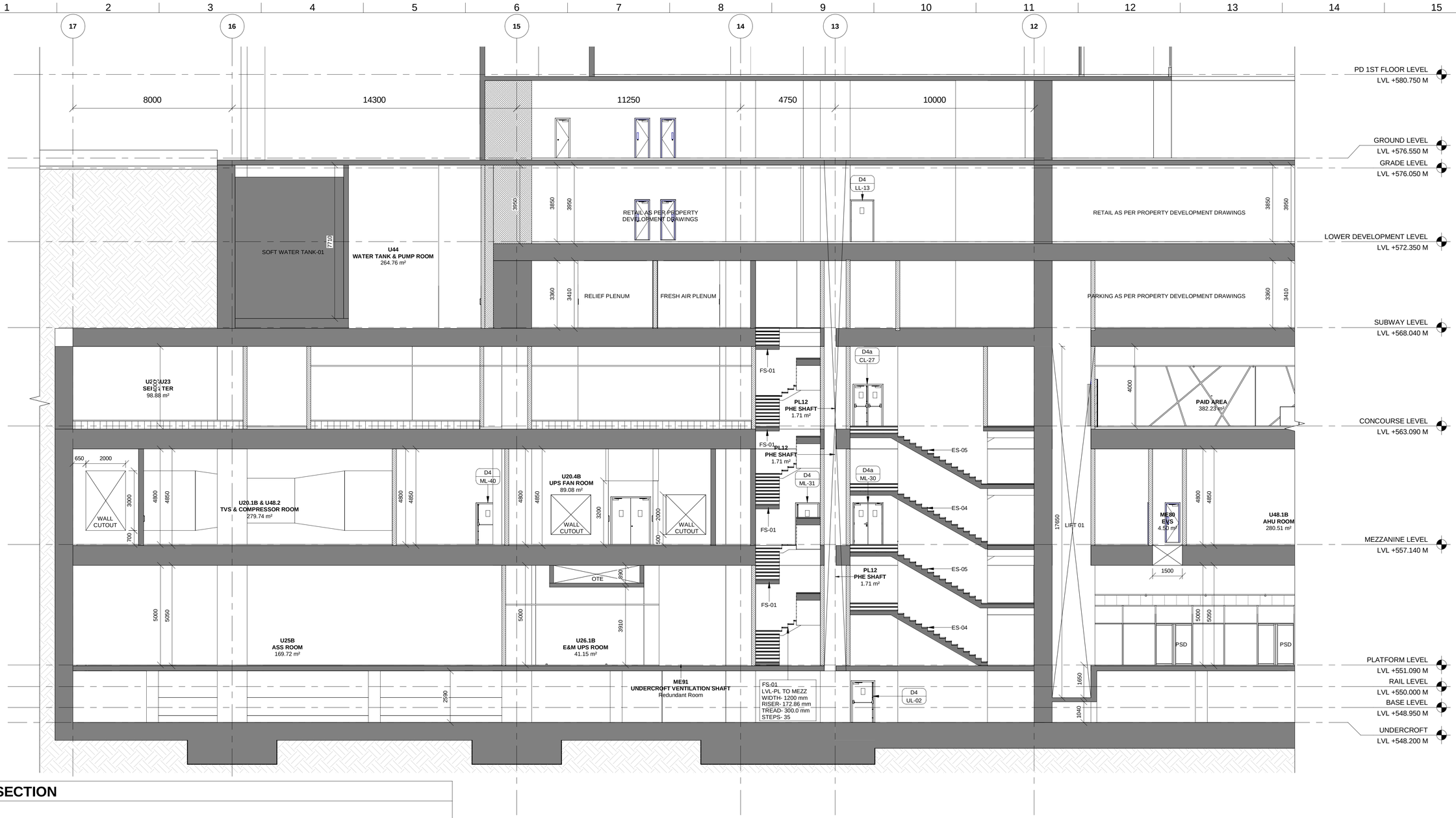
TITLE: **LONG SECTION - 01**

SCALE: 1:250	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B02

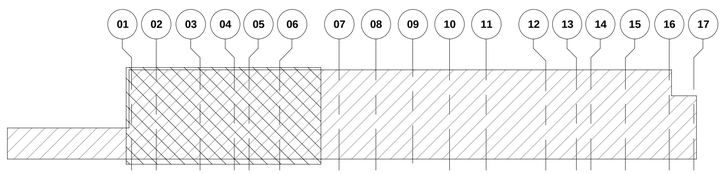
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5100

ARCHITECTURE

plot scale 50mm



KEY SECTION



1 **LONG SECTION - 01 (1 OF 4)**

5101 Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
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TVS/ ECS Expert			

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

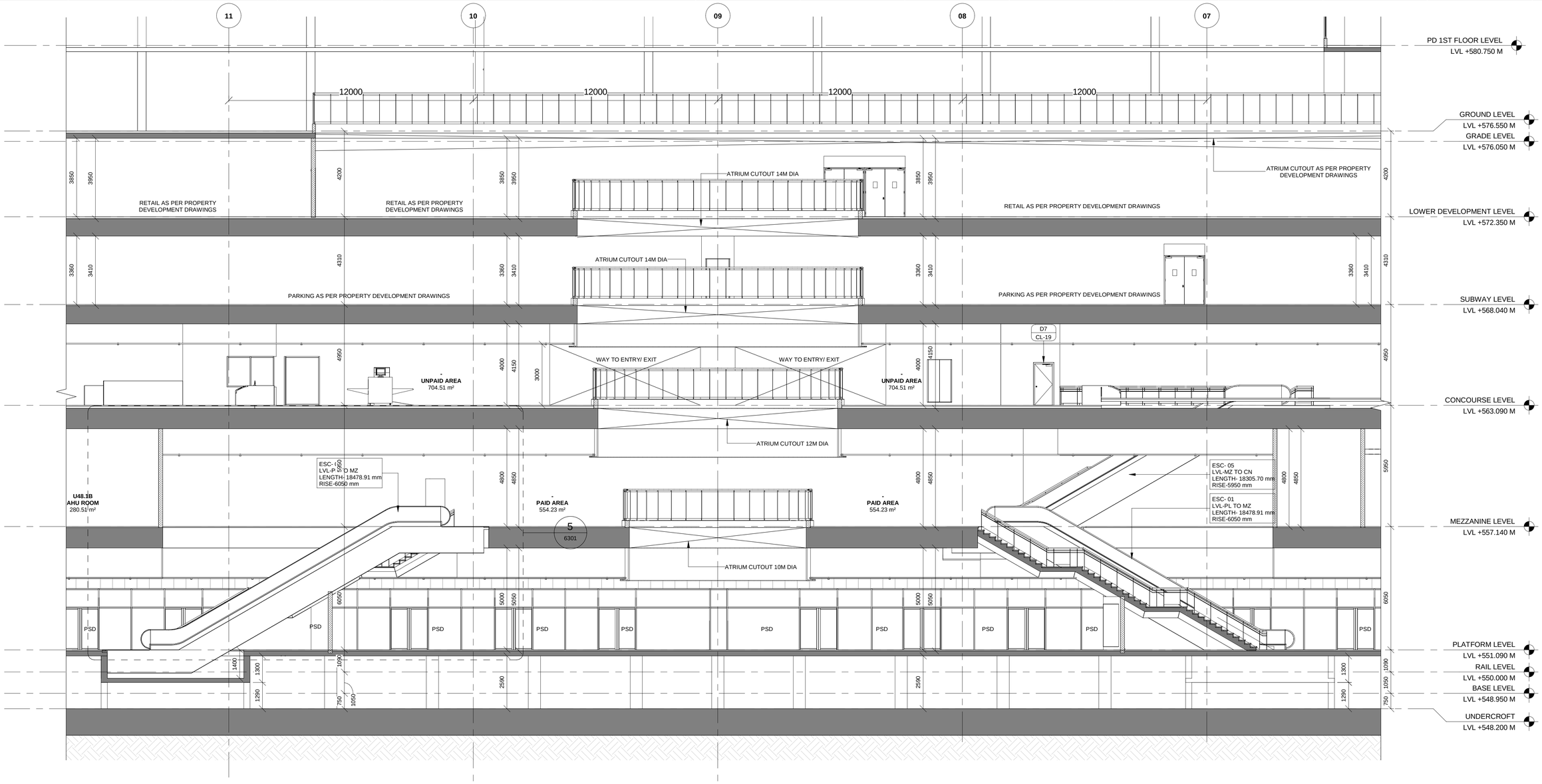
TITLE: **LONG SECTION - 01 (1 OF 4)**

SCALE: 1:100	DATE:15.09.2020	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:
			B02

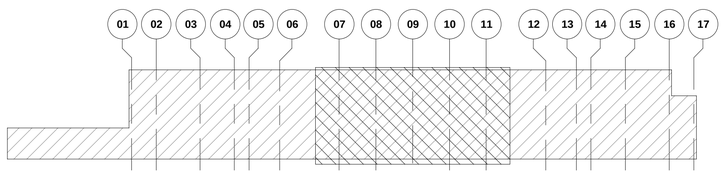
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5101

ARCHITECTURE

plot scale 50mm



KEY SECTION



1 **LONG SECTION - 01 (2 OF 4)**

5102 Scale: 1 : 100

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

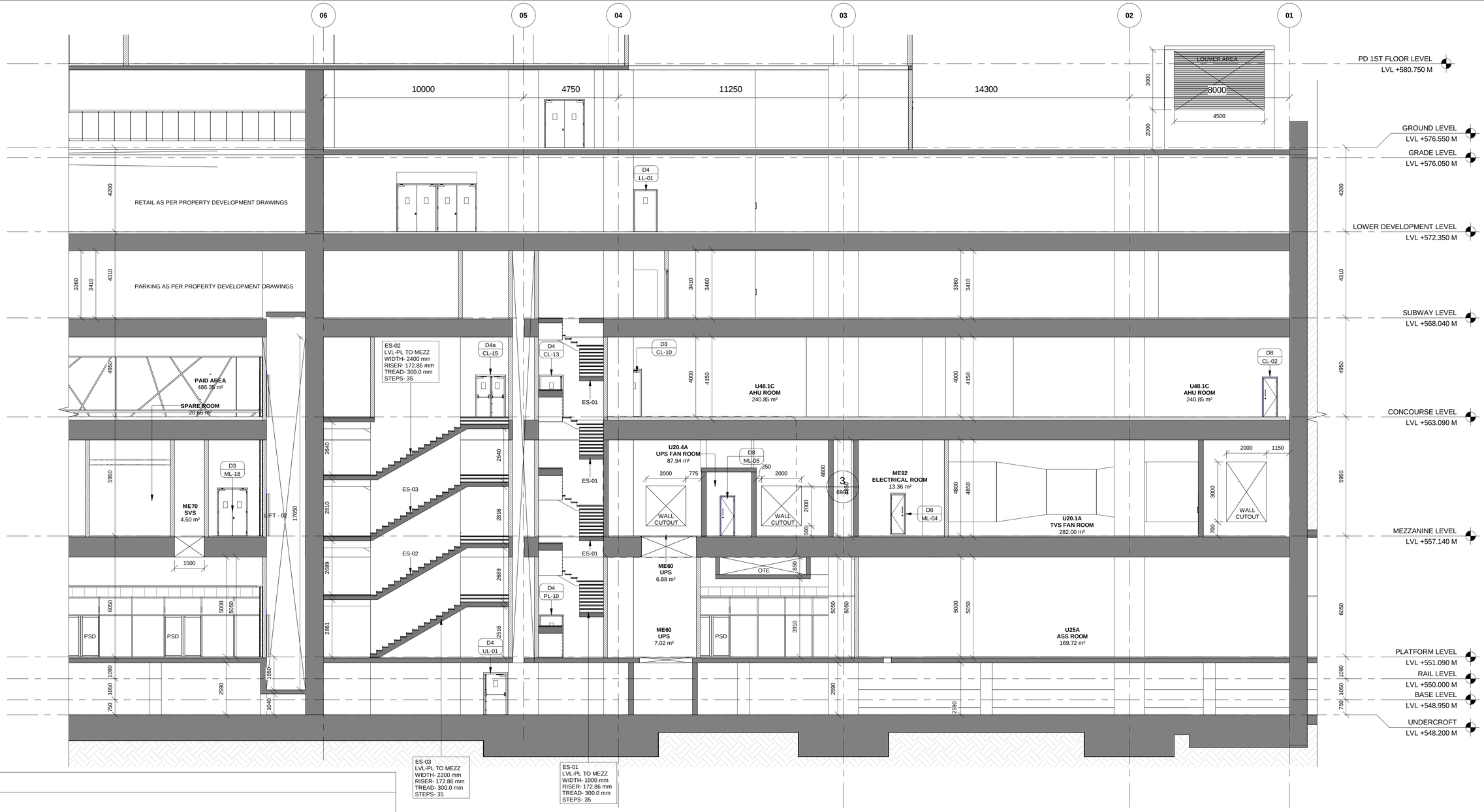
TITLE: **LONG SECTION - 01 (2 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

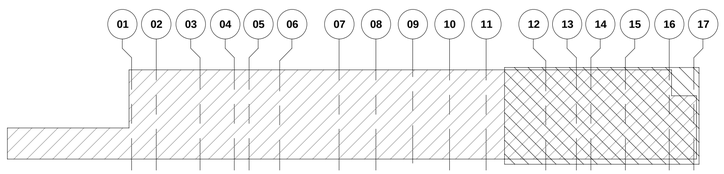
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5102

ARCHITECTURE

plot scale 50mm



KEY SECTION



1 **LONG SECTION - 01 (3 OF 4)**

5103 Scale: 1 : 100

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT		REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

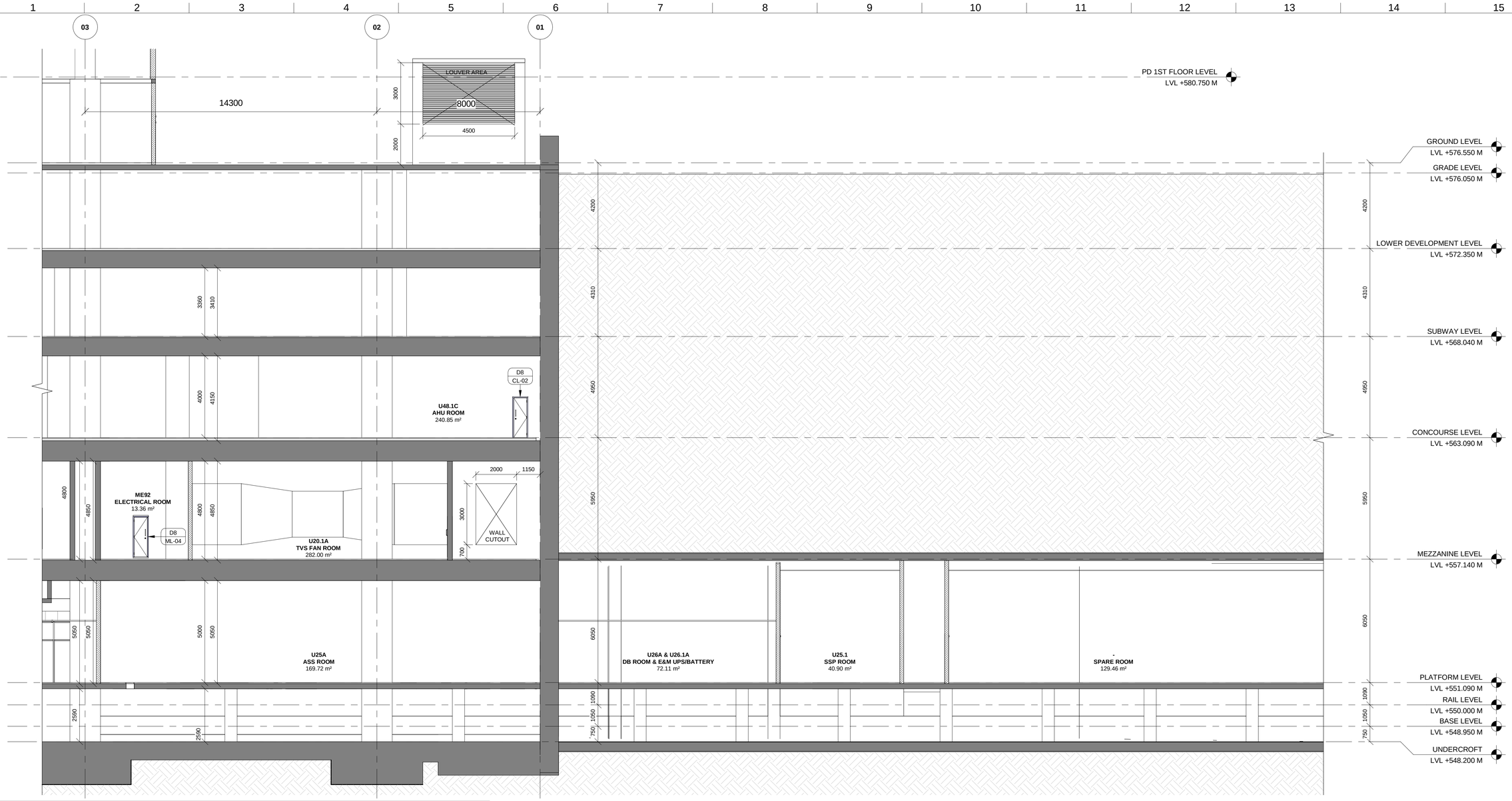
TITLE: **LONG SECTION - 01 (3 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

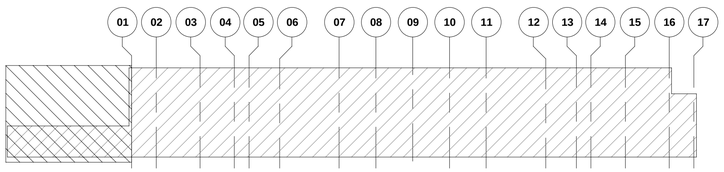
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5103

ARCHITECTURE

plot scale 50mm



KEY SECTION



1 LONG SECTION - 01 (4 OF 4)

5104 Scale: 1 : 100

NOTES:

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13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

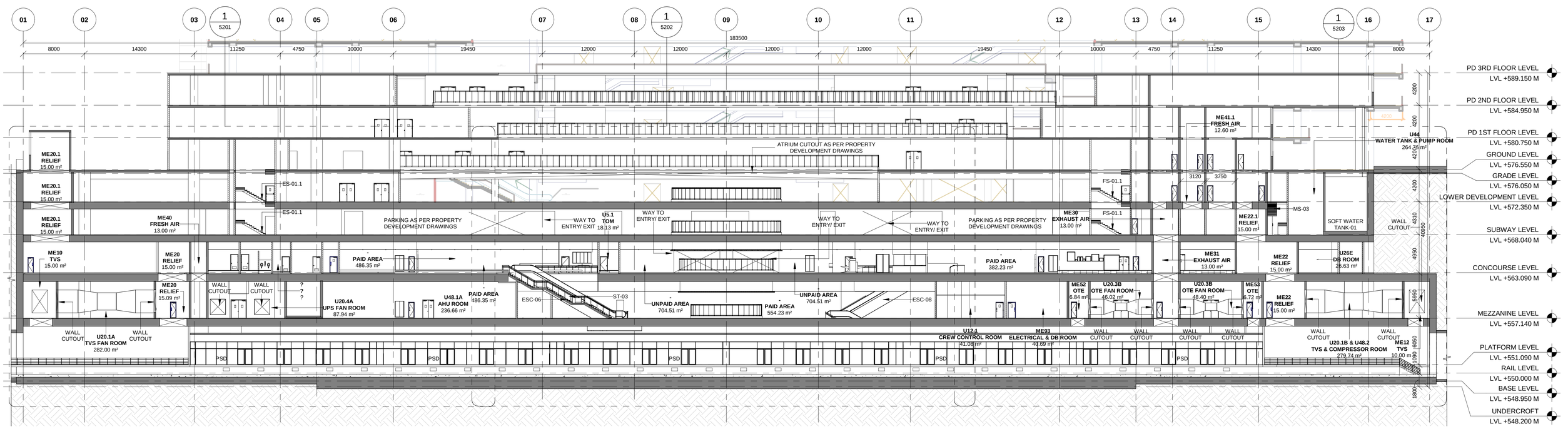
TITLE: **LONG SECTION - 01 (4 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5104

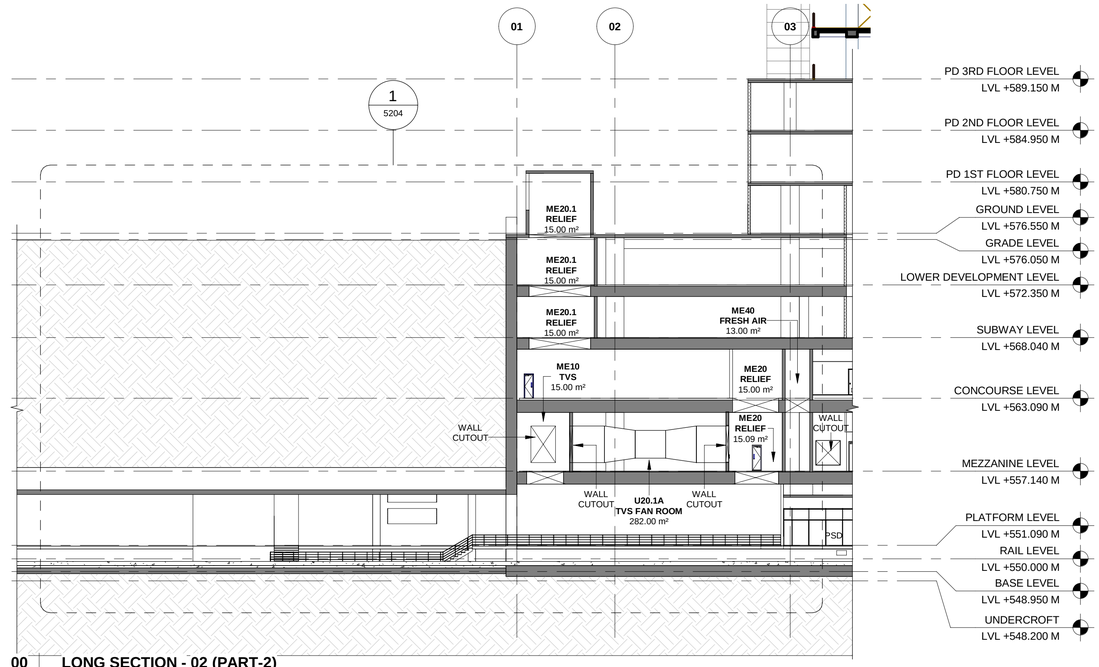
ARCHITECTURE

plot scale 50mm



02 LONG SECTION - 02 (PART-1)

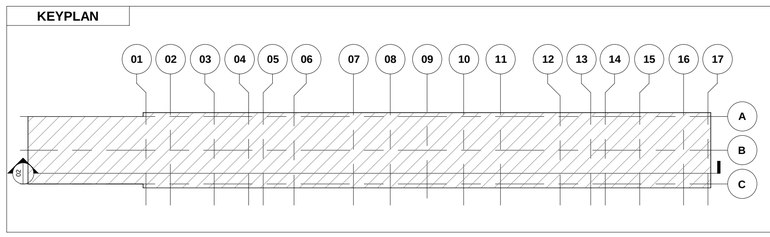
5200 Scale: 1 : 250



00 LONG SECTION - 02 (PART-2)

5200 Scale: 1 : 250

KEYPLAN



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AECOM-SYSTRA-CEG	AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

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AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

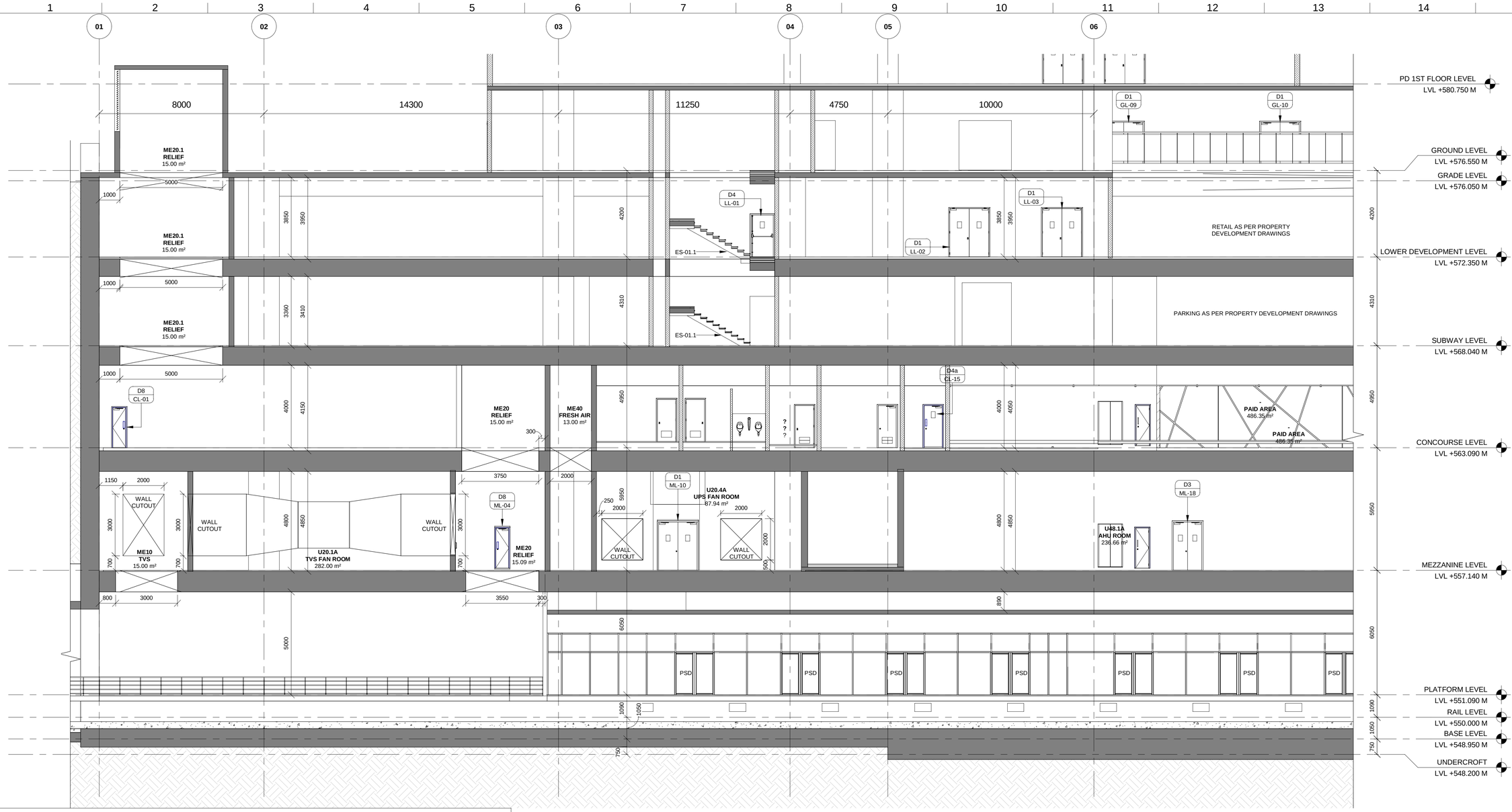
TITLE: **LONG SECTION - 02**

SCALE: 1:250 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

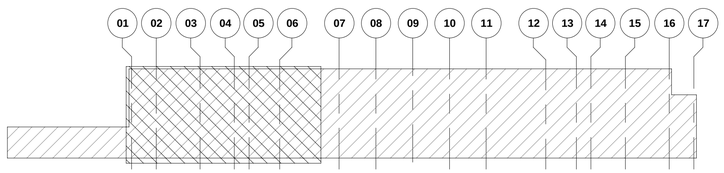
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5200

ARCHITECTURE

plot scale 50mm



KEY SECTION



1 **LONG SECTION - 02 (1 OF 4)**
5201 Scale: 1 : 100

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
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REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

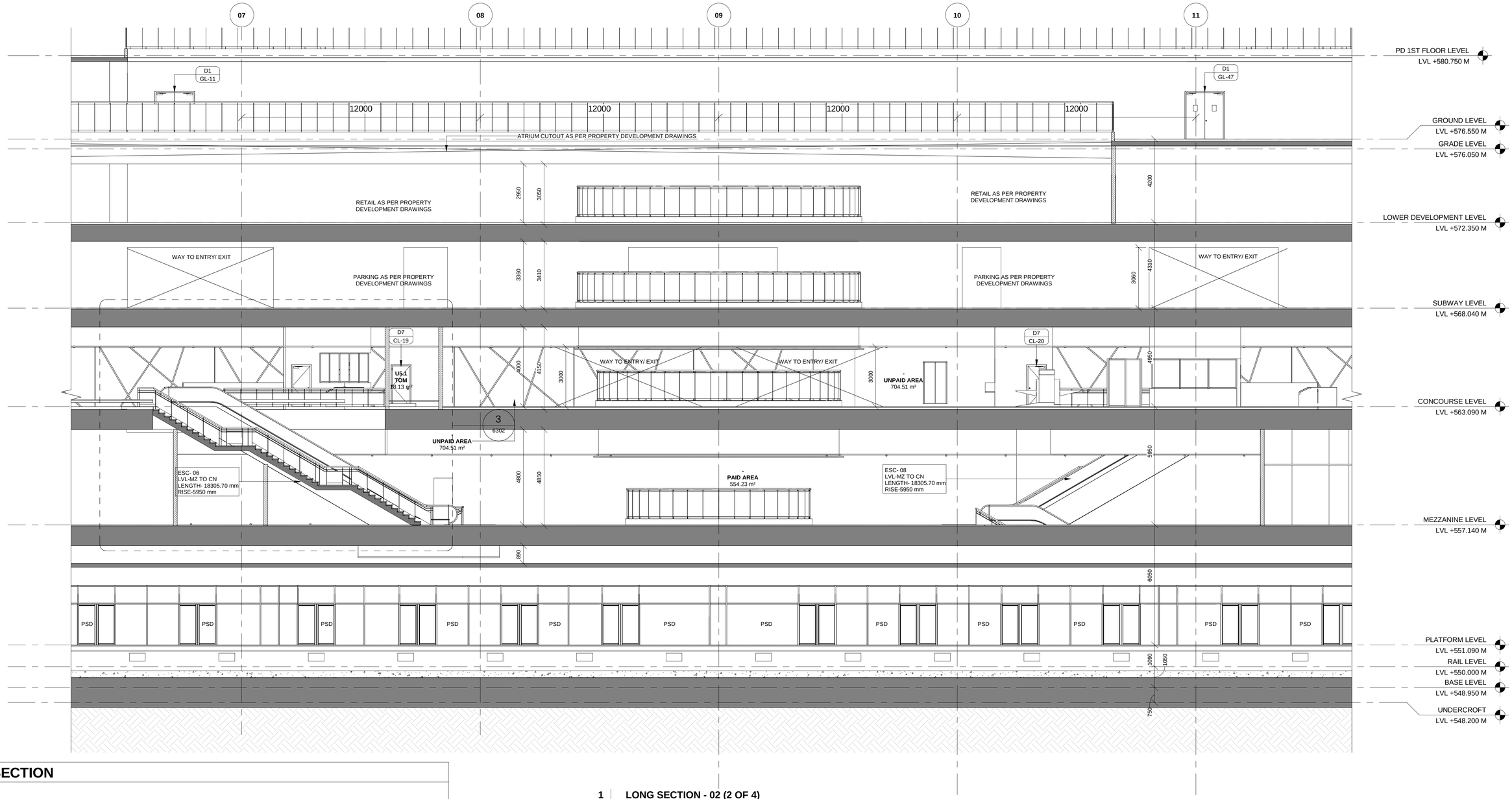
TITLE: **LONG SECTION - 02 (1 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5201

ARCHITECTURE

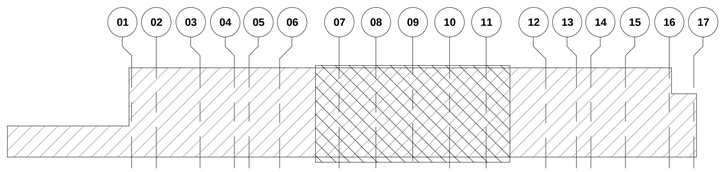
plot scale 50mm



1 LONG SECTION - 02 (2 OF 4)

5202 Scale: 1 : 100

KEY SECTION



NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
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NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N.A.

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

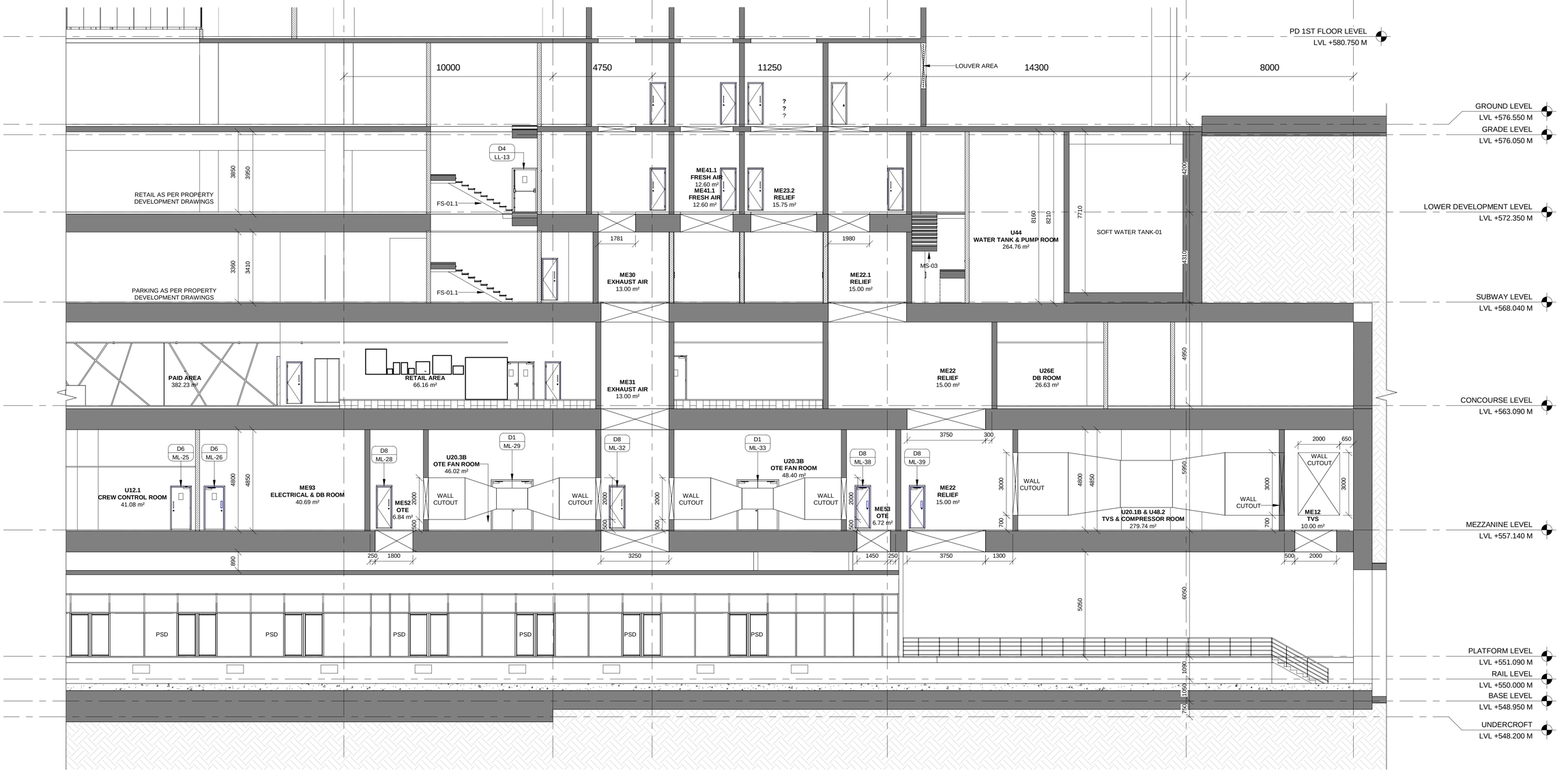
TITLE: **LONG SECTION - 02 (2 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5202

ARCHITECTURE

plot scale 50mm



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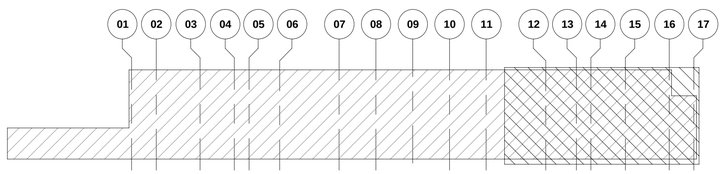

1 | LONG SECTION - 02 (3 OF 4)

5203 | Scale: 1 : 100

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9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
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11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY	APPROVED BY
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

AECOM-SYSTRA-CEG

	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

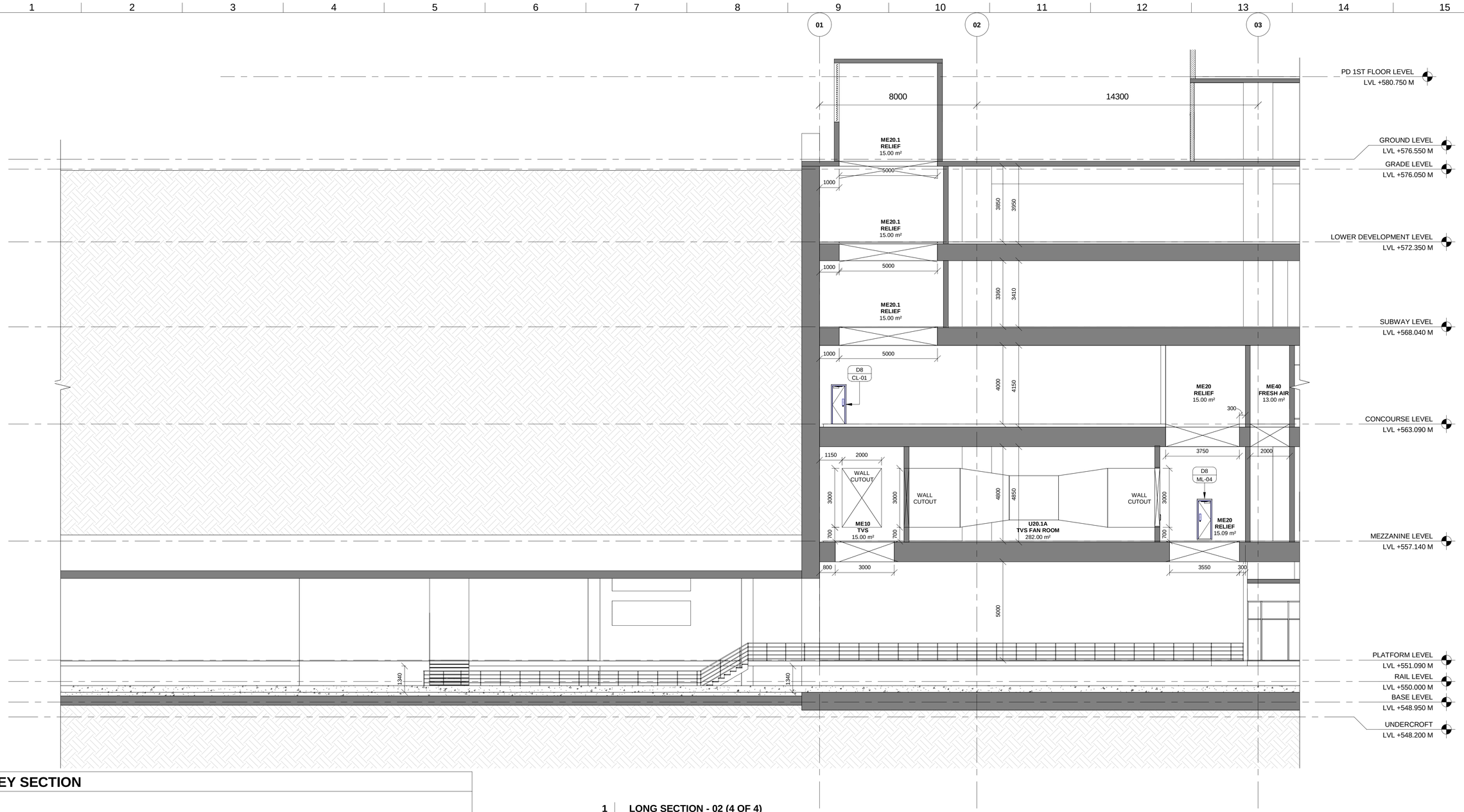
TITLE: **LONG SECTION - 02 (3 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5203

ARCHITECTURE

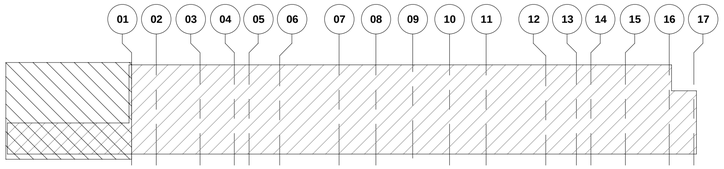
plot scale 50mm



1 | **LONG SECTION - 02 (4 OF 4)**

5204 | Scale: 1 : 100

KEY SECTION



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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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HOD

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	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

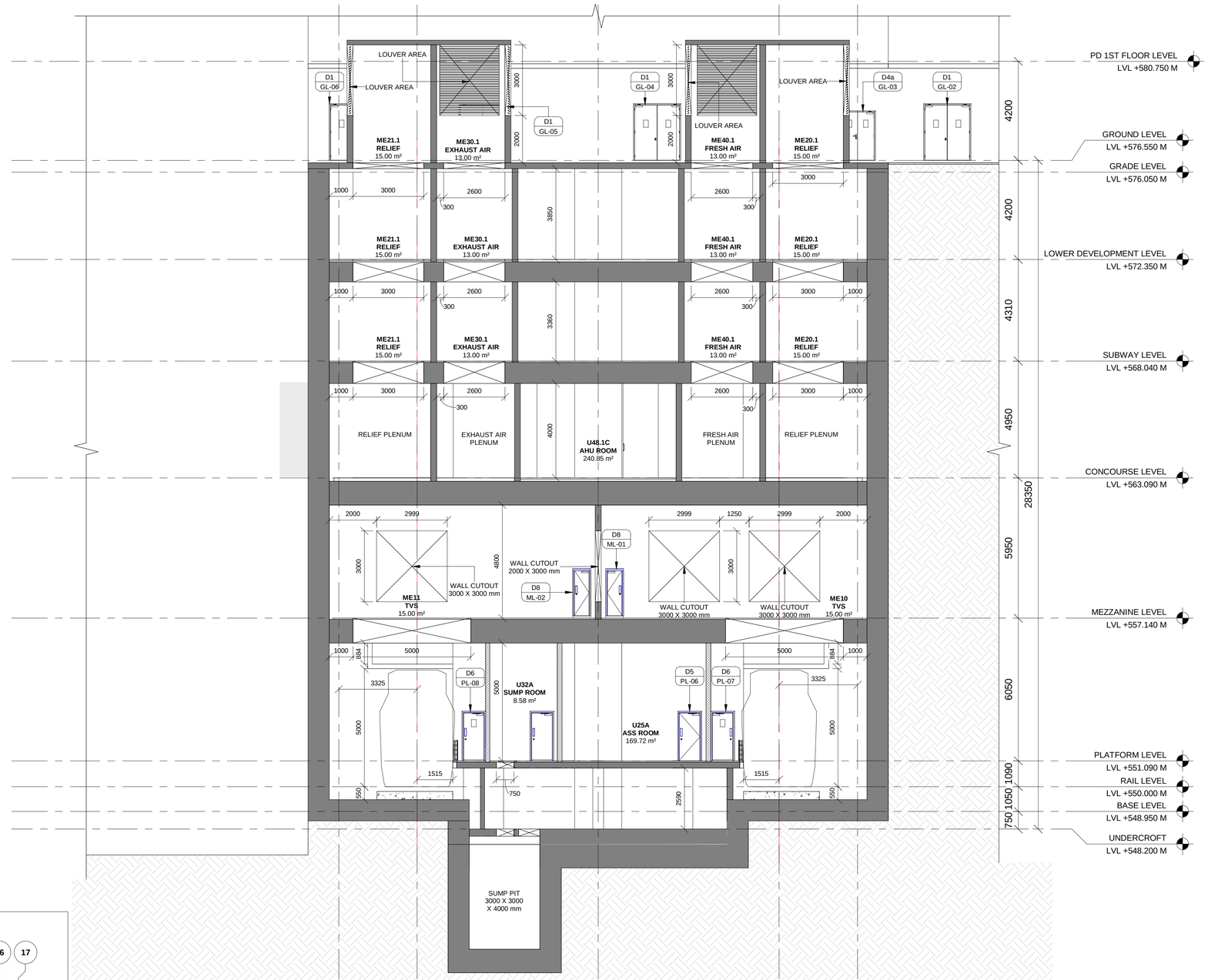
TITLE: **LONG SECTION -02 (4 OF 4)**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5204

ARCHITECTURE

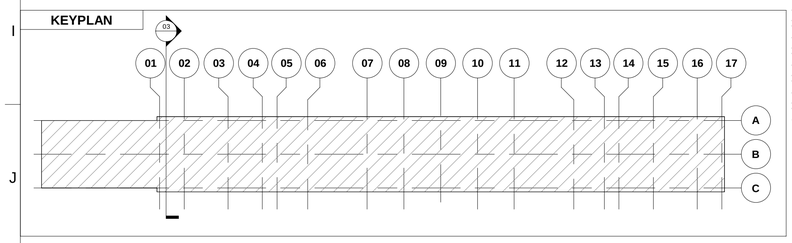
plot scale 50mm



03 **CROSS SECTION - 03**

5500 Scale: 1 : 100

KEYPLAN



NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
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B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR			CONTRACTOR	CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:		SIGN:	
DATE:	DATE:	DATE:		DATE:	
NAME:	NAME:	NAME:		NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

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AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

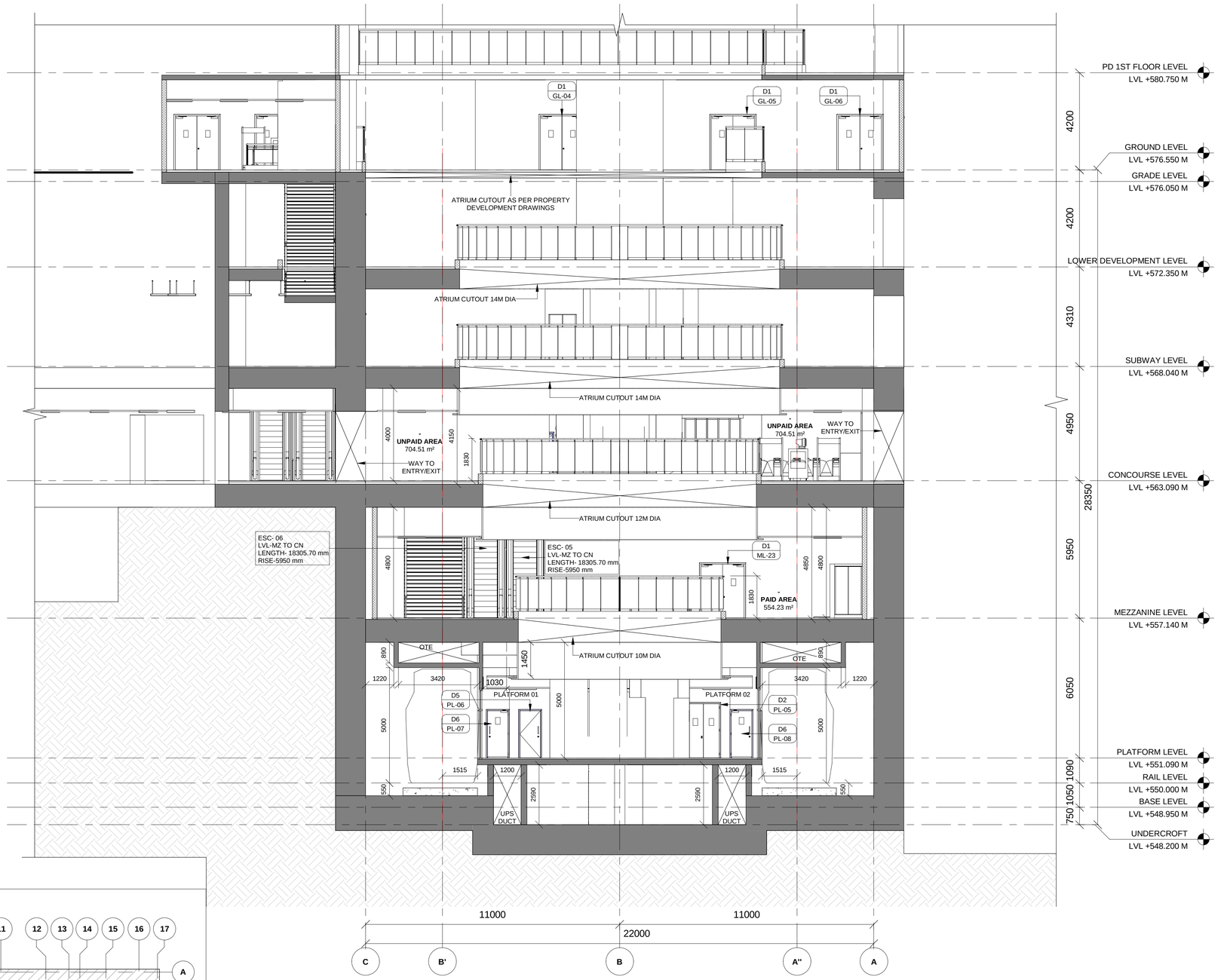
TITLE: **CROSS SECTION - 03**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

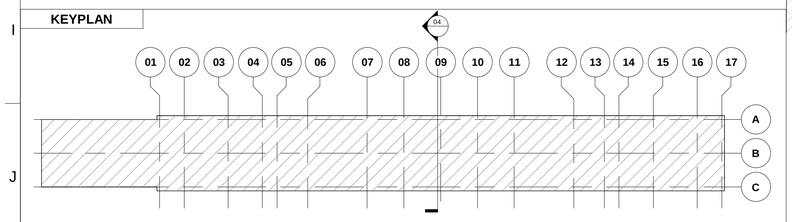
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5500

ARCHITECTURE

plot scale 50mm



KEYPLAN



04 | **CROSS SECTION - 04**

5501 | Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT		
SIGN:	SIGN:	
DATE:	DATE:	
NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	

N.A.

- ☐ Proof checked by GC
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SIGN:		SIGN:	
DATE:		DATE:	
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REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

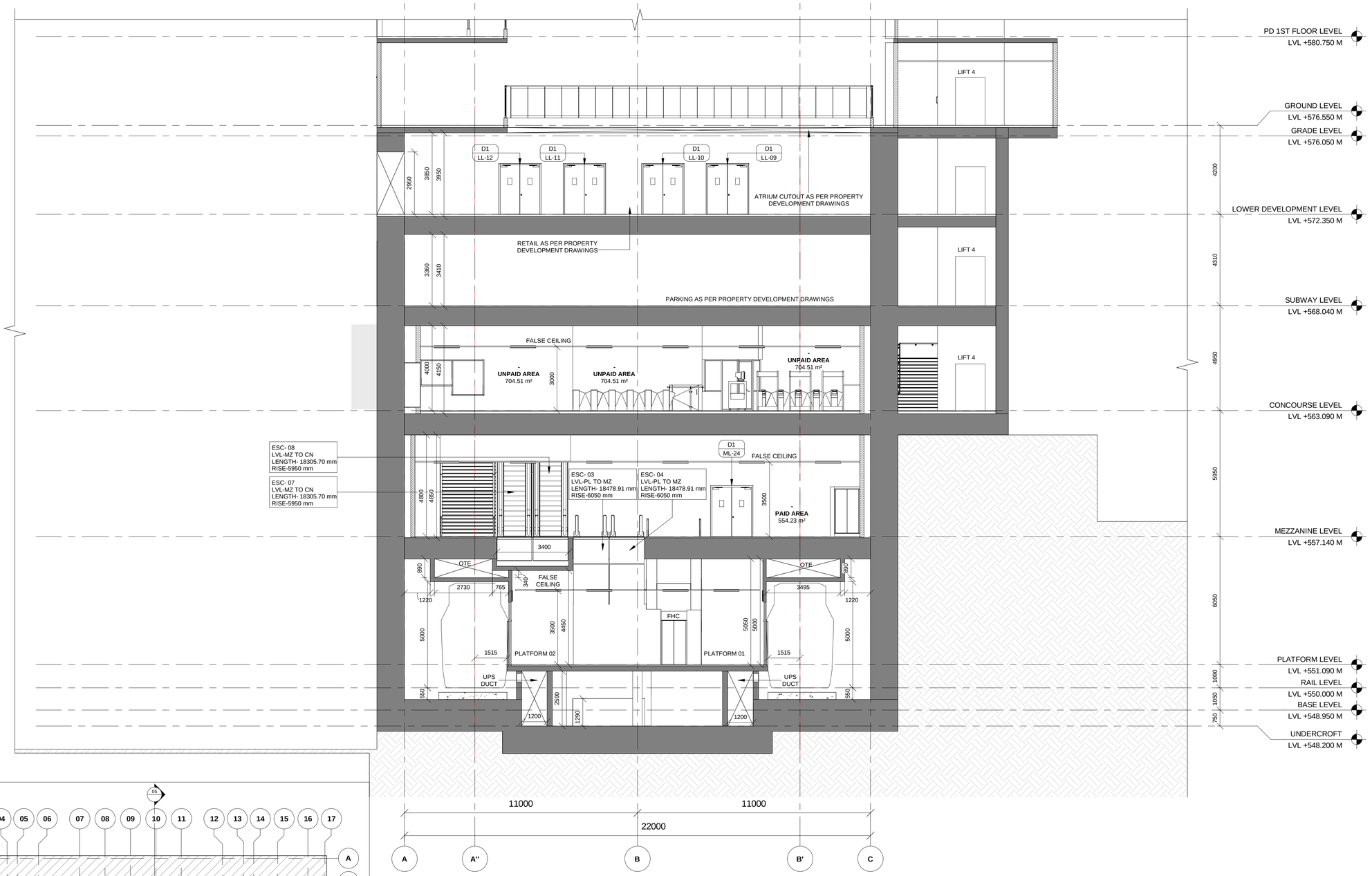
TITLE: **CROSS SECTION - 04**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

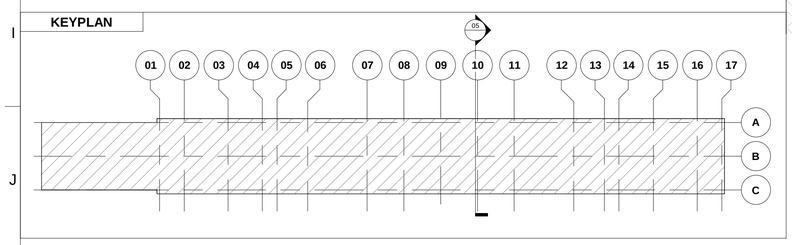
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5501

ARCHITECTURE

plot scale 50mm



KEYPLAN



05 | **CROSS SECTION - 05**

5502 | Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

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DDC / CONTRACTOR			CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
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SIGN:		SIGN:	
DATE:		DATE:	
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REVIEWED BY		APPROVED BY	

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(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

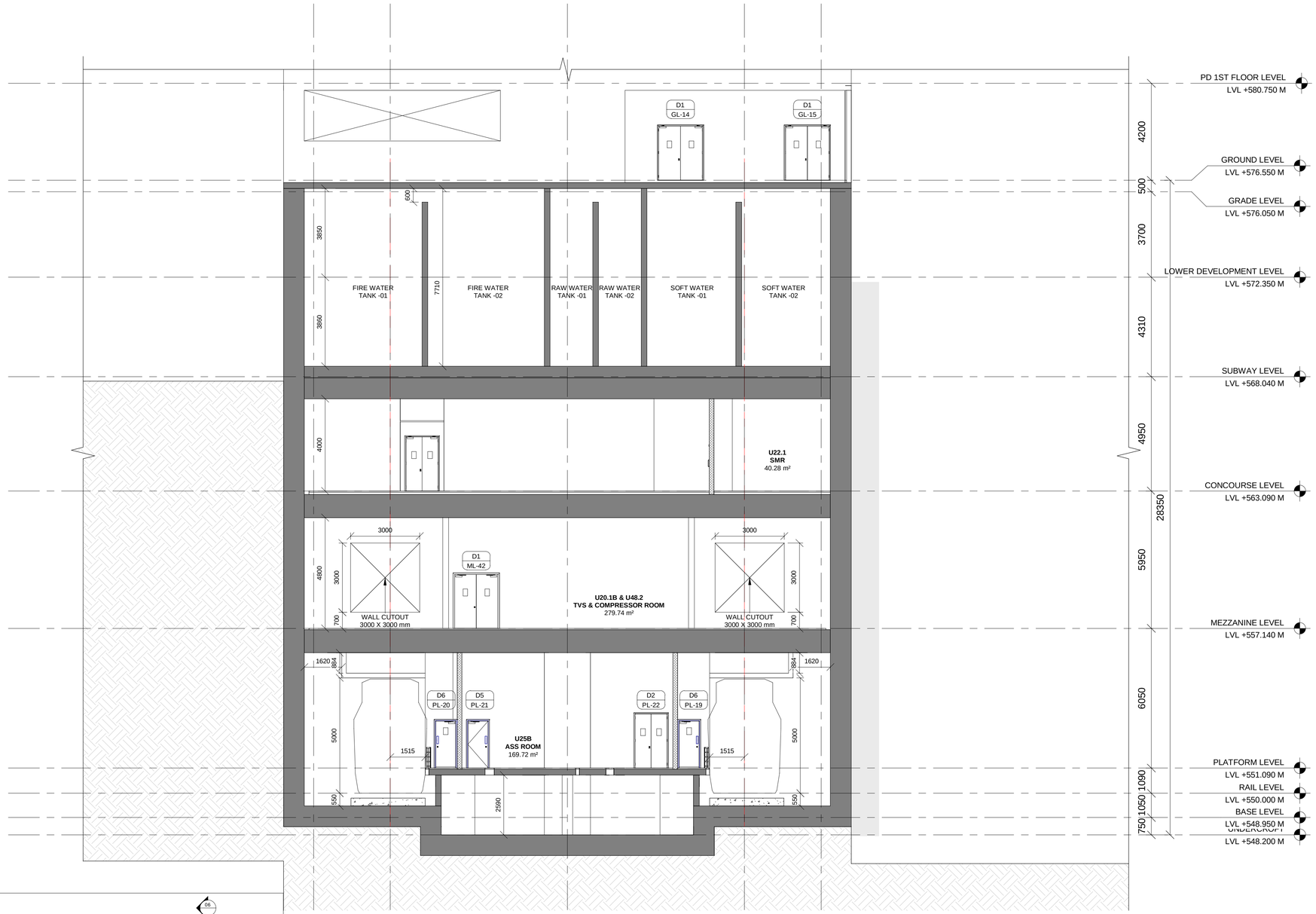
TITLE: **CROSS SECTION - 05**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

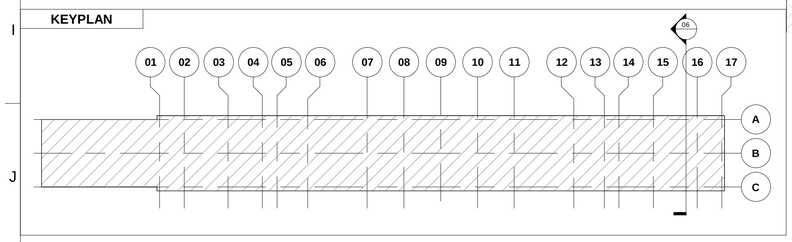
DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5502

ARCHITECTURE

plot scale 50mm



KEYPLAN



06 | **CROSS SECTION - 06**

5503 | Scale: 1 : 100

NOTES:

1. THIS DRAWING MUST BE READ CONJUCTION WITH ALL RELEVENT ARCHITECTURAL, STRUCTURAL, PLUMBING & FIRE FIGHTING, ELETRICAL, AND TRAFFIC MANAGEMENT DRAWING.
2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY,AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B03	03.09.2021	Revised as per GC's Comments	
B02	20.09.2020	GFC drawings revised	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

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THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DDC / CONTRACTOR				CONTRACTOR	PROOF CONSULTANT					
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:	SIGN:		SIGN:	
DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE: 15.09.2020	DATE:	DATE:	DATE:	DATE:		DATE:	
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME: Anand Selvaraj	NAME:	NAME:	NAME:	NAME:		NAME:	
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY	REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY	

N/A

DY. HOD

HOD

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert	
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SWARGATE STATION**

TITLE: **CROSS SECTION - 06**

SCALE: 1:100 | DATE:15.09.2020 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B02

DRG NO: P4D02 - ACM - AR - PRM - SGT - DSE - 5503

ARCHITECTURE

plot scale 50mm

PCMC STATION

GROUND LEVEL

Number	Name	Area
U 7.2	TICKET OFFICE	11.45 m²
U 45	DG ROOM	227.52 m²
M40	FRESH AIR	9.00 m²
ME30	EXHAUST AIR	9.00 m²
ME41	EXHAUST AIR	10.90 m²
ME31	FRESH AIR	9.66 m²
ME24.1	RELIEF	15.50 m²

GROUND LEVEL

ME21.2	RELIEF	16.19 m²
PL11.1	FIRE/PLUMBING SHAFT	1.05 m²
ME20.2	RELIEF	15.77 m²
ME70.2	SVS	7.05 m²
ME80.2	EVS	7.05 m²
ME22.1	RELIEF	16.12 m²
EL14	ELECTRICAL SHAFT	0.53 m²
EL15	DB ROOM	12.52 m²
-	UNPAID AREA	314.28 m²
-	STAIRCASE	22.07 m²
-	TOM	218.19 m²

TO SWARGATE STATION

N

175000

12000 | 12200 | 11300 | 11150 | 24750 | 13600 | 2500 | 11100 | 25250 | 11150 | 10800 | 13200 | 16000

1936

RAMP UP

TOM 218.19 m²

ST-09

DN DN DN

ESC.20

ESC.21

ENTRANCE 5

DROP OFF

COLUMN LOCATION FOR MSRTC DEVELOPMENT NEAR GRID 12 HAS BEEN MOVED TOWARDS GRID 11 BY 2.5M

LIFT - 09

ELEC SHAFT

PHE SHAFT

1970

20632

DROP OFF

PLUMBING SHAFT BELOW

MSRTC SCOPE (below ground)

STATION SCOPE (below ground)

+551.50 M

+551.35 M

+551.50 M

+551.0 M

+551.0 M

DROP OFF AREA

DROP OFF

ESC.05

+551.600 m FFL

DN

DN

ESC.06

DN

ST.03

LIFT - 03

MS.03

ACCESS HATCH

RAMP FOR PHASE-2

ME21.2 RELIEF 16.19 m²

U 7.2 TICKET OFFICE 11.45 m²

DN UP

UP

+551.600 m

ME20.2 RELIEF 15.77 m²

RAMP UP

UP

+551.000 m

EL15 DB ROOM 12.52 m²

ENTRANCE 1

BUS ENTRY

M40 FRESH AIR 9.00 m²

ME30 EXHAUST AIR 9.00 m²

ME70.2 SVS 7.05 m²

ME80.2 EVS 7.05 m²

LOUVERS Height= 4000mm

LOUVERS Height= 4000mm

EL12 DG SHAFT 1.76 m²

ACCESS HATCH

1000 MM DEEP TRENCH

LOUVERS Height= 4000mm

FS.01

DN

U 45 DG ROOM 227.52 m²

1000

5055

ME22.1 RELIEF 16.12 m²

ME24.1 RELIEF 15.50 m²

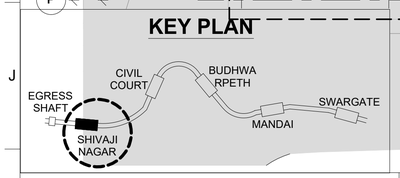
ME41 EXHAUST AIR 10.90 m²

ME31 FRESH AIR 9.66 m²

1 / 1103

A 6500 B 3325 C 28500 7675 D 15350 TRACK CENTER 7675 E 3325 F

KEY PLAN



2 / 1101

1 / 1100 **GROUND LEVEL KEY PLAN**

Scale: 1 : 250

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	22.09.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 22.09.2021	DATE: 22.09.2021	DATE:22.09.2021	DATE: 22.09.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:	SIGN:	
DATE:	DATE:	DATE:	DATE:	
NAME:	NAME:	NAME:	NAME:	
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY	

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

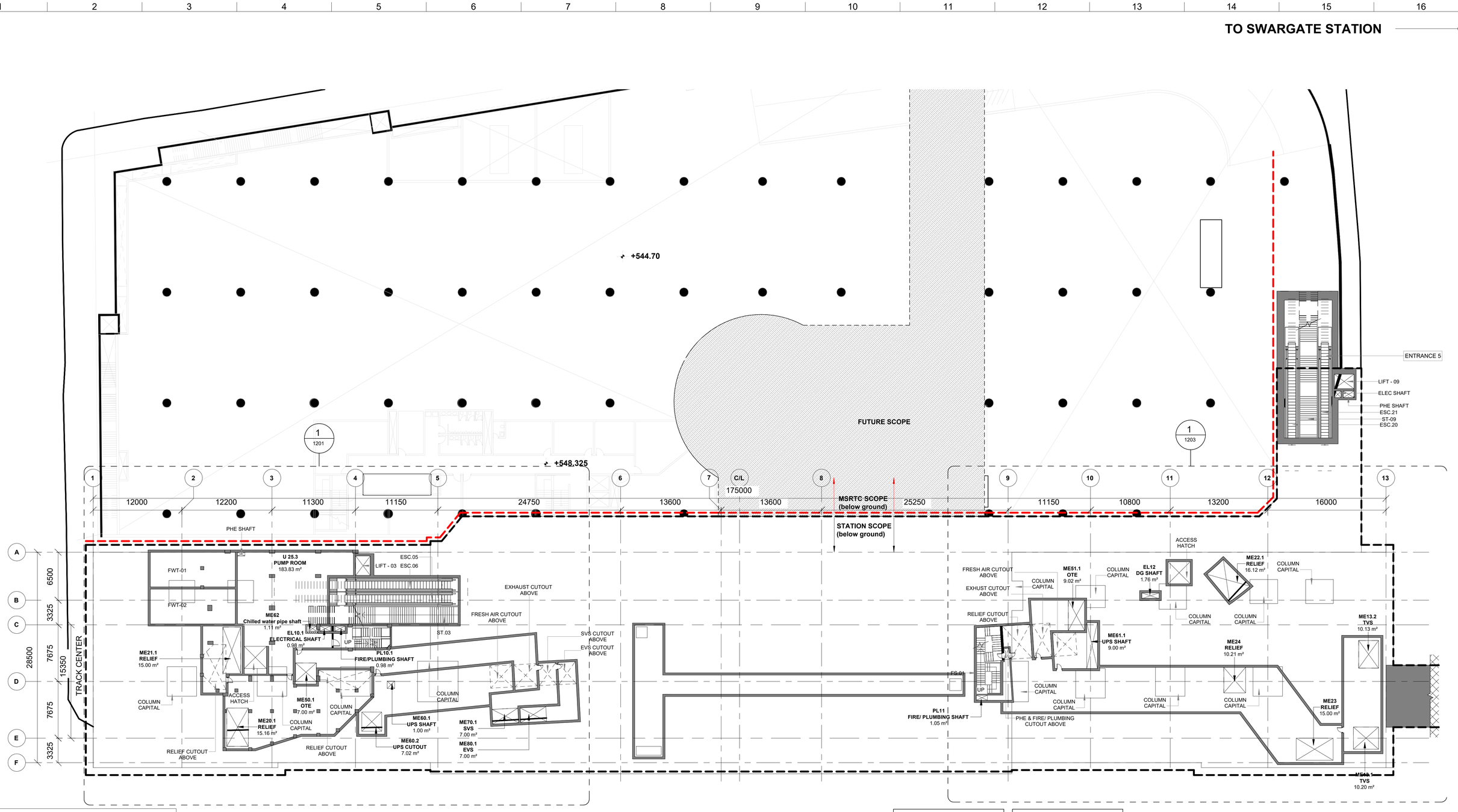
TITLE: **GROUND LEVEL KEY PLAN**

SCALE: 1:250 | DATE: 22.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

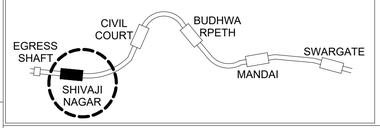
DRG NO: P4D02 - ACM - AR - PRM - SJO - GL - DRP - 1100

ARCHITECTURE

plot scale 50mm



KEY PLAN



1 TOP OF BOX KEY PLAN

1200 Scale: 1 : 250

TOP OF BOX

Number	Name	Area
ME21.1	RELIEF	15.00 m²
ME20.1	RELIEF	15.16 m²
ME50.1	OTE	7.00 m²
EL10.1	ELECTRICAL SHAFT	0.98 m²
PL10.1	FIRE/PLUMBING SHAFT	0.98 m²
ME60.1	UPS SHAFT	1.00 m²
ME70.1	SVS	7.00 m²
ME80.1	EVS	7.00 m²

TOP OF BOX

Number	Name	Area
ME13.1	TVS	10.20 m²
ME13.2	TVS	10.13 m²
ME24	RELIEF	10.21 m²
EL12	DG SHAFT	1.76 m²
ME61.1	UPS SHAFT	9.00 m²
ME51.1	OTE	9.02 m²
U 25.3	PUMP ROOM	183.83 m²
ME60.2	UPS CUTOUT	7.02 m²
ME62	Chilled water pipe shaft	1.11 m²

AECOM-SYSTRA-CEG

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	Chief MEP Expert	Chief Telecom Expert	PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	Signalling Expert	T/ PSI Expert	TVS/ ECS Expert

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	23.09.2021	GFC drawings revised	
B02	20.09.2020	GFC drawings revised	
B01	28.02.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 11.09.2021	DATE: 11.09.2021	DATE: 11.09.2021	DATE: 11.09.2021	DATE:
NAME: Abhishek Raj	NAME:Suraj Kaurav	NAME:Shubhi Agrawal	NAME:Anand Kumar	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM

AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SHIVAJI NAGAR STATION**

TITLE: **TOP OF BOX KEY PLAN**

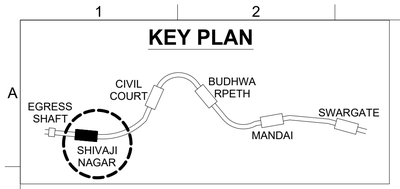
SCALE: 1:250 | DATE:11.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - TB - DRP - 1200

ARCHITECTURE

plot scale 50mm

KEY PLAN

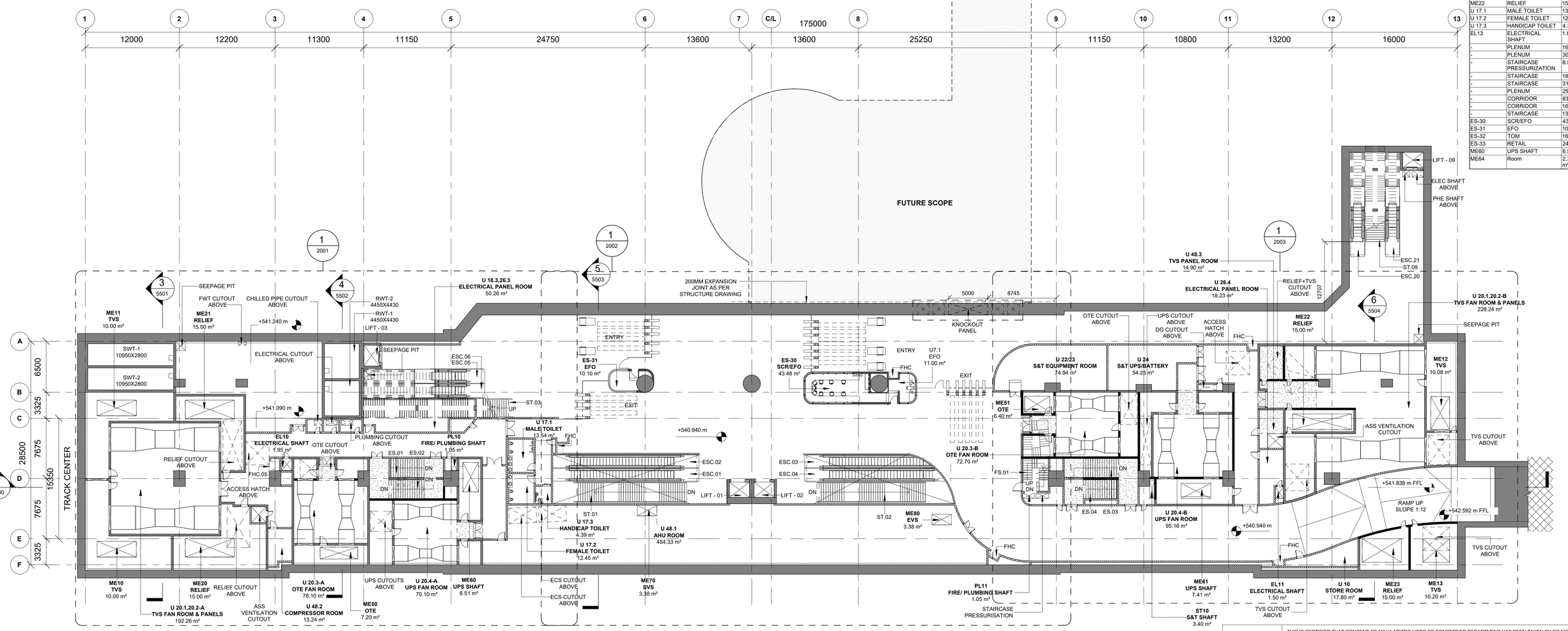


TOWARDS SHIVAJI NAGAR RAILWAY STATION

TO SWARGATE STATION

CONCOURSE LEVEL

Number	Name	Area
U 20.1,20.2-A	TVS FAN ROOM & PANELS	192.26 m²
U 48.2	COMPRESSOR ROOM	13.24 m²
U 20.3-A	OTE FAN ROOM	78.10 m²
U 20.4-A	UPS FAN ROOM	70.10 m²
U 18.3,26.3	ELECTRICAL PANEL ROOM	50.26 m²
U 48.1	AHU ROOM	454.33 m²
U 20.3-B	OTE FAN ROOM	72.70 m²
U 22/23	S&T EQUIPMENT ROOM	74.94 m²
U 20.4-B	UPS FAN ROOM	95.16 m²
U 24	S&T UPS/BATTERY	54.25 m²
U 20.1,20.2-B	TVS FAN ROOM & PANELS	228.24 m²
U 10	STORE ROOM	17.80 m²
U 25.1	PUMP ROOM	167.94 m²
U 48.3	TVS PANEL ROOM	14.90 m²
U 26.4	ELECTRICAL PANEL ROOM	18.23 m²
ME10	TVS	10.00 m²
ME20	RELIEF	15.00 m²
ME11	TVS	10.00 m²
ME21	RELIEF	15.00 m²
ME50	OTE	7.20 m²
ME70	SVS	3.38 m²
ME80	EVS	3.38 m²
ME51	OTE	6.40 m²
ME23	RELIEF	15.00 m²
ME12	TVS	10.08 m²
ME22	RELIEF	15.00 m²
U 17.1	MALE TOILET	13.54 m²
U 17.2	FEMALE TOILET	12.45 m²
U 17.3	HANDICAP TOILET	4.39 m²
EL13	ELECTRICAL SHAFT	1.81 m²
-	PLENUM	16.34 m²
-	PLENUM	30.11 m²
-	STAIRCASE PRESSURIZATION	8.50 m²
-	STAIRCASE	18.16 m²
-	STAIRCASE	31.13 m²
-	PLENUM	29.85 m²
-	CORRIDOR	83.97 m²
-	CORRIDOR	160.51 m²
-	STAIRCASE	13.85 m²
ES-30	SCR/EFO	43.48 m²
ES-31	EFO	10.10 m²
ES-32	TOM	16.94 m²
ES-33	RETAIL	24.95 m²
ME60	UPS SHAFT	6.51 m²
ME64	Room	2,381.39 m²



1 | **CONCOURSE LEVEL KEY PLAN**

2000 | Scale: 1 : 250

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	22.09.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

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DDC / CONTRACTOR			CONTRACTOR	
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 22.09.2021	DATE: 22.09.2021	DATE:22.09.2021	DATE: 22.09.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

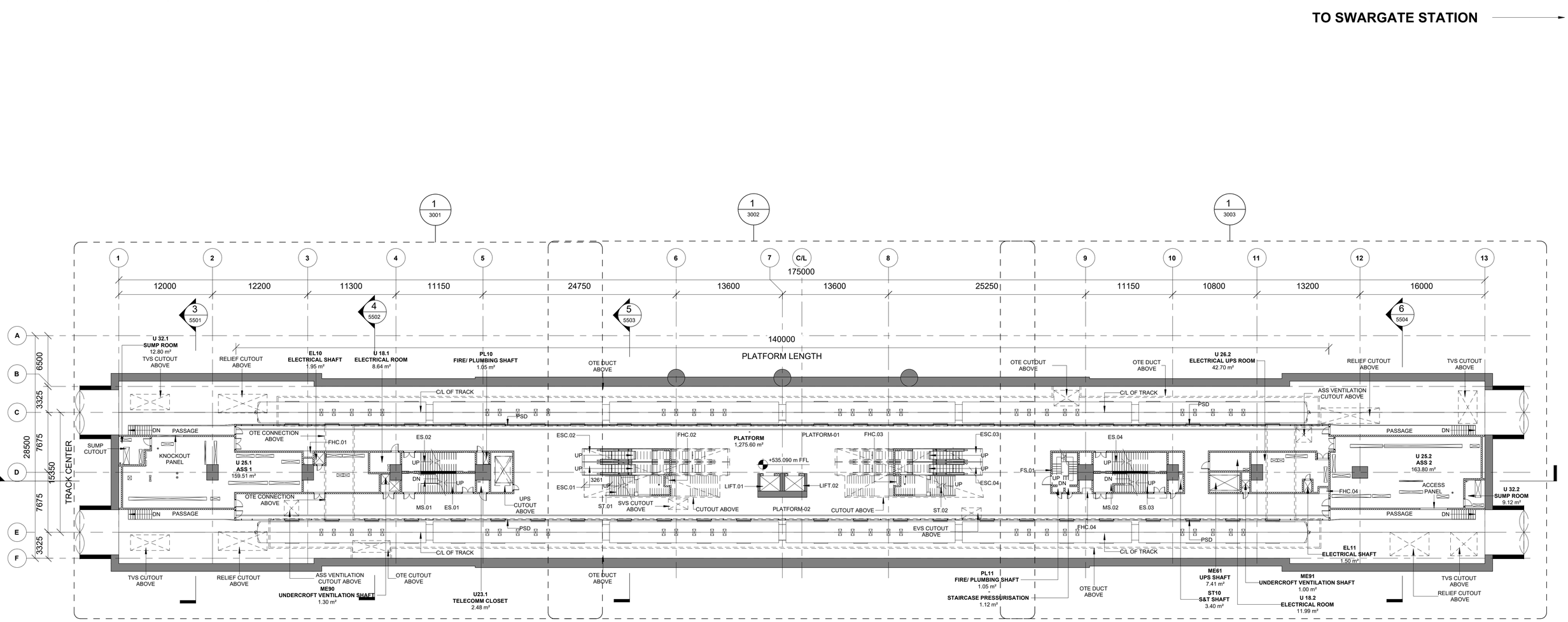
TITLE: **CONCOURSE LEVEL KEY PLAN**

SCALE: 1:250 | DATE: 22.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - CL - DRP - 2000

ARCHITECTURE

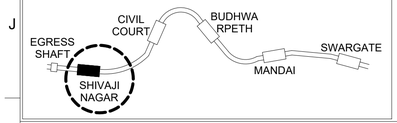
plot scale 50mm



1 PLATFORM LEVEL KEY PLAN

3000 Scale: 1 : 250

KEY PLAN



PLATFORM

Number	Name	Area
U 32.1	SUMP ROOM	12.80 m²
U 25.1	ASS 1	159.51 m²
U 18.1	ELECTRICAL ROOM	8.64 m²
U 18.2	ELECTRICAL ROOM	11.99 m²
U 26.2	ELECTRICAL UPS ROOM	42.70 m²
U 25.2	ASS 2	163.80 m²
U 32.2	SUMP ROOM	9.12 m²
EL10	ELECTRICAL SHAFT	1.95 m²
ME90	UNDERCROFT VENTILATION SHAFT	1.30 m²
PL10	FIRE/ PLUMBING SHAFT	1.05 m²
PL11	FIRE/ PLUMBING SHAFT	1.05 m²
ST10	S&T SHAFT	3.40 m²

PLATFORM

Number	Name	Area
ME61	UPS SHAFT	7.41 m²
ME91	UNDERCROFT VENTILATION SHAFT	1.00 m²
EL11	ELECTRICAL SHAFT	1.50 m²
U26.1	ELECTRICAL UPS ROOM	38.28 m²
ES-02	EMERGENCY STAIRCASE	22.95 m²
ES-01	EMERGENCY STAIRCASE	22.62 m²
FS01	FIRE STAIRCASE	13.85 m²
ES-04	EMERGENCY STAIRCASE	22.93 m²
ES-03	EMERGENCY STAIRCASE	21.69 m²
U23.1	TELECOMM CLOSET	2.48 m²

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	22.09.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 22.09.2021	DATE: 22.09.2021	DATE:22.09.2021	DATE: 22.09.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT				
SIGN:	SIGN:	SIGN:		SIGN:
DATE:	DATE:	DATE:		DATE:
NAME:	NAME:	NAME:		NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY		APPROVED BY

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

TITLE: **PLATFORM LEVEL KEY PLAN**

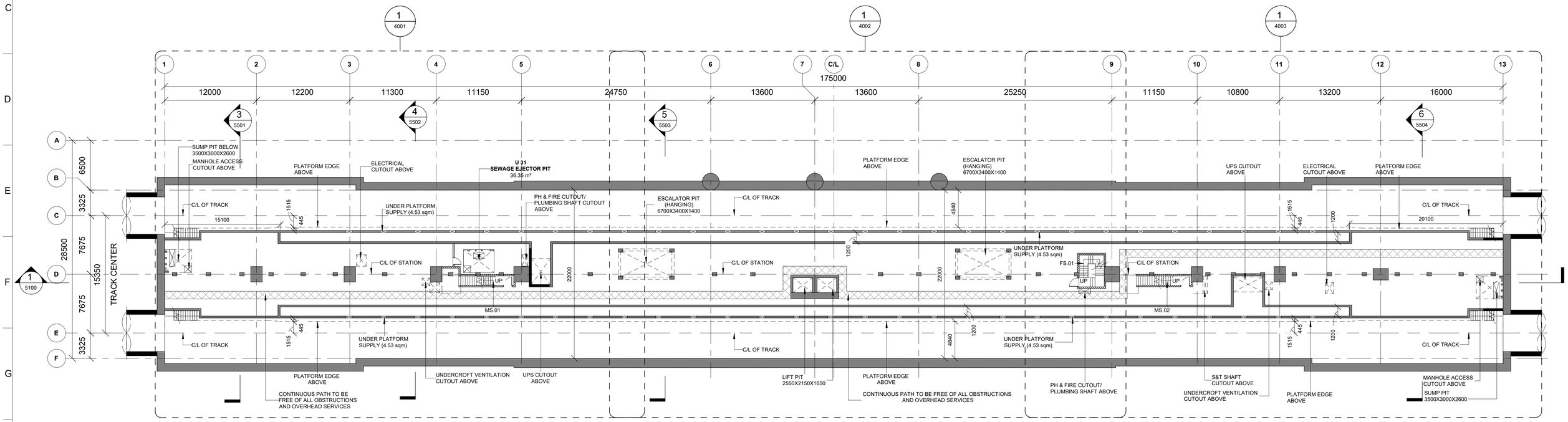
SCALE: 1:250 | DATE: 22.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - PT - DRP - 3000

ARCHITECTURE

plot scale 50mm

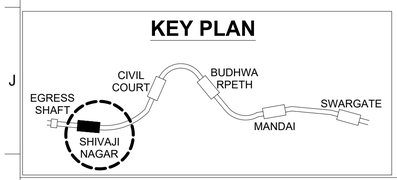
TO SWARGATE STATION



1 4000 **UNDERCROFT LEVEL KEY PLAN**

Scale: 1 : 250

KEY PLAN



UNDERCROFT

Number	Name	Area
U 31	SEWAGE EJECTOR PIT	36.35 m²

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B03	22.09.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 22.09.2021	DATE: 22.09.2021	DATE:22.09.2021	DATE: 22.09.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

☐ Proof checked by GC
☐ Being Given No Objection
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SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: PUNE METRO RAIL PROJECT
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD

LOCATION: SHIVAJI NAGAR STATION

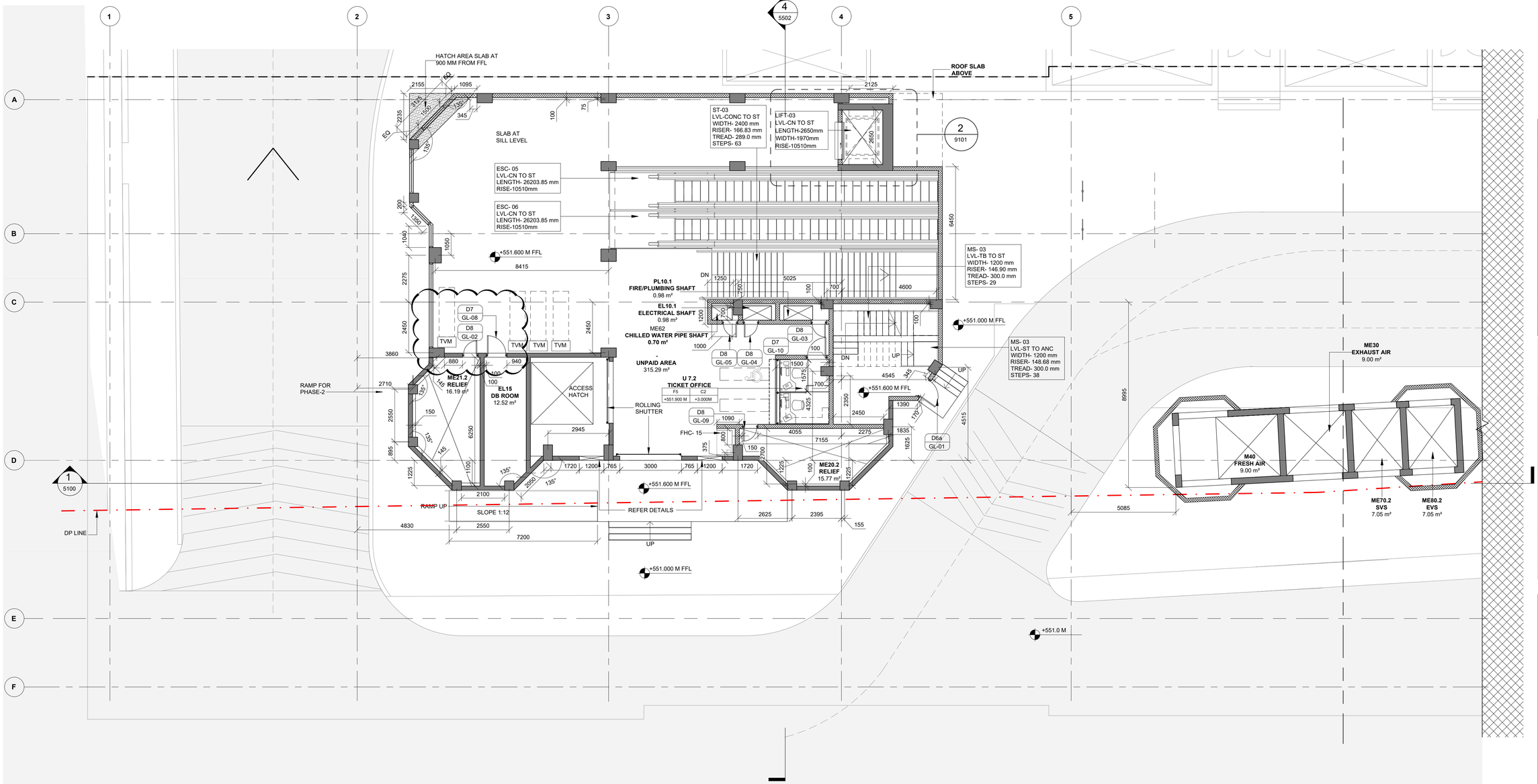
TITLE: UNDERCROFT LEVEL KEY PLAN

SCALE: 1:250 | DATE: 22.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - UL - DRP - 4000

ARCHITECTURE

plot scale 50mm



GROUND LEVEL

Number	Name	Area
U 7.2	TICKET OFFICE	11.45 m²
U 45	DG ROOM	227.52 m²
M40	FRESH AIR	9.00 m²
ME30	EXHAUST AIR	9.00 m²
ME41	EXHAUST AIR	10.90 m²
ME31	FRESH AIR	9.66 m²
ME24.1	RELIEF	15.50 m²
ME21.2	RELIEF	16.19 m²
PL10.1	FIRE/PLUMBING SHAFT	0.98 m²
ME20.2	RELIEF	15.77 m²
ME70.2	SVS	7.05 m²
ME62	CHILLED WATER PIPE SHAFT	0.70 m²
ME80.2	EVS	7.05 m²
ME22.1	RELIEF	16.12 m²
EL14	ELECTRICAL SHAFT	0.53 m²
EL15	DB ROOM	12.52 m²
-	UNPAID AREA	315.29 m²
-	STAIRCASE	22.07 m²
	TOM	218.19 m²

REVISION SCHEDULE

REV. NO.	DESCRIPTION	DATE
B03.1	COLUMNS MODIFIED AS PER STRUCTURE DESIGN	04.09.2021
B03.2	TOM UPDATED AS PER LAYOUT	04.09.2021
B03.3	MS-3 UPDATED	04.09.2021

DOOR SCHEDULE

Type Mark	Width (mm)	Height (mm)	Fire Rating
D1	2000	2400	1.5hr(90 min)
D2	1500	2400	3hr(180 min)
D3	1500	2400	1.5hr(90 min)
D4	1200	2100	1.5hr(90 min)
D4A	1500	2100	1.5hr(90 min)
D5	1000	2100	3hr(180 min)
D6	1000	2100	1.5hr(90 min)
D6a	1000	2100	1.5hr(90 min)
D6c			
D6d			
D7	1000	2100	
D8	750	2000	1.5hr(90 min)
D8	750	2000	-
D10	1000	2100	-
D11	1000	2100	
RS1	3500	3000	
RS3	5000	3000	
RS4	2500	3000	

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

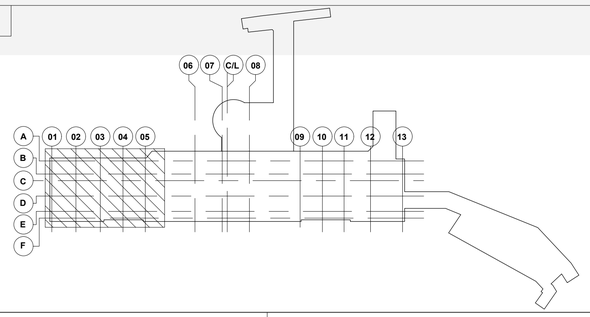
FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

LOUVER SCHEDULE

Mark	Length	Height	Sill Level	Level
V1	2400	4000	1850	PLINTH LEVEL
V2	1900	4000	1850	PLINTH LEVEL
V3	3200	4000	1850	PLINTH LEVEL
V4	1900	4000	1850	PLINTH LEVEL
V5	4240	4000	1850	PLINTH LEVEL
V6	2890	4000	1850	PLINTH LEVEL
V7	4350	4000	1850	PLINTH LEVEL
V8	2995	3200	550	ANCILLARY LEVEL
V9	2980	3200	550	ANCILLARY LEVEL
V10	9152	3200	550	ANCILLARY LEVEL
V11	2400	3700	1350	PLINTH LEVEL
V12	2050	3700	1350	PLINTH LEVEL

KEYPLAN



2 GROUND LEVEL PLAN (1 OF 4)

1101 Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B02	20.09.2020	GFC drawings revised	
B01	28.02.2020	GFC drawings revised	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 28.08.2021	DATE: 28.08.2021	DATE: 28.08.2021	DATE: 28.08.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

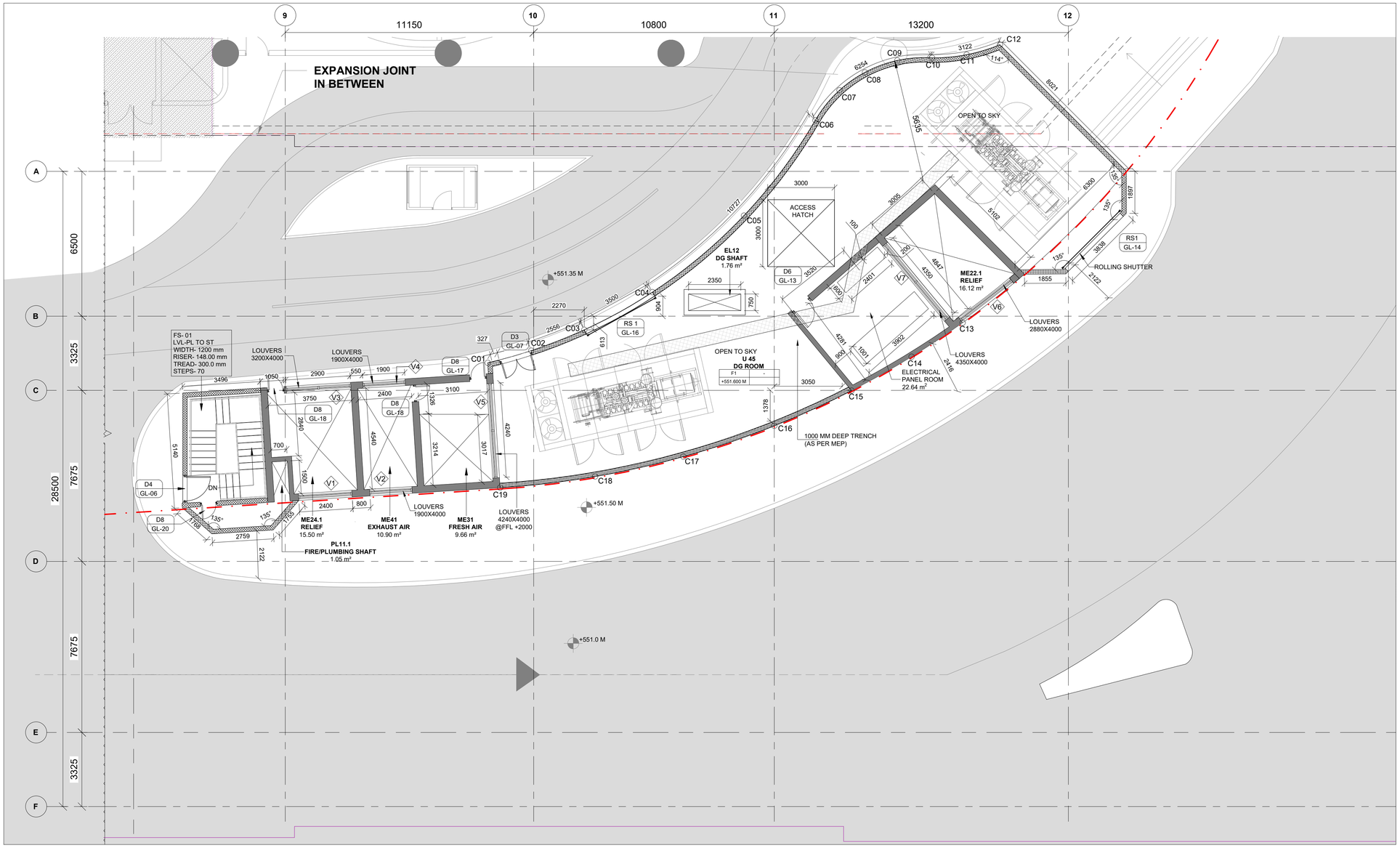
TITLE: **GROUND LEVEL PLAN (1 OF 4)**

SCALE: 1:100 | DATE: 04.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - GL - DRP - 1101

ARCHITECTURE

plot scale 50mm



COORDINATES		
POINTS	EASTING	NORTHING
C01	45437.865	8906.171
C02	47391.615	9455.399
C03	49769.971	10387.219
C04	52833.852	12079.151
C05	56939.133	15512.147
C06	60144.499	19797.539
C07	61224.781	21135.675
C08	62366.674	21940.467
C09	63820.620	22474.623
C10	65384.444	22591.060
C11	66936.263	22732.373
C12	68428.021	23182.671
C13	66753.105	10707.751
C14	64458.939	9181.604
C15	61766.527	7662.662
C16	58300.000	6081.618
C17	54214.208	4700.299
C18	50254.409	3809.208
C19	45993.756	3308.316

GROUND LEVEL

Number	Name	Area
U 7.2	TICKET OFFICE	11.45 m²
U 45	DG ROOM	227.52 m²
M40	FRESH AIR	9.00 m²
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ME24.1	RELIEF	15.50 m²
ME21.2	RELIEF	16.19 m²
PL11.1	FIRE/PLUMBING SHAFT	1.05 m²
ME20.2	RELIEF	15.77 m²
ME70.2	SVS	7.05 m²
ME80.2	EVS	7.05 m²
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EL14	ELECTRICAL SHAFT	0.53 m²
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-	UNPAID AREA	314.28 m²
-	STAIRCASE	22.07 m²
-	TOM	218.19 m²

REVISION SCHEDULE

REV. NO.	DESCRIPTION	DATE
B03.1	Room modified as per MEP approval	07.09.2021
B03.2	Elevation updated as per MD requirement	07.09.2021

LEGEND

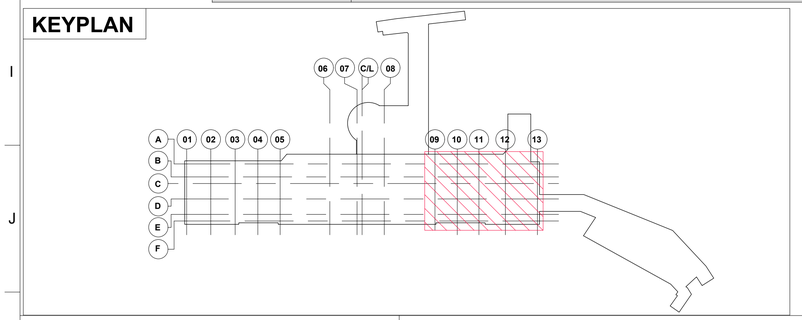
- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

KEYPLAN



1 | GROUND LEVEL PLAN (2 OF 4)

1103 | Scale: 1 : 100

LOUVER SCHEDULE

Mark	Length	Height	Sill Level	Level
V1	2400	4000	1850	PLINTH LEVEL
V2	1900	4000	1850	PLINTH LEVEL
V3	2900	4000	1850	PLINTH LEVEL
V4	1900	4000	1850	PLINTH LEVEL
V5	4240	4000	1850	PLINTH LEVEL
V6	2890	4000	1850	PLINTH LEVEL
V7	4350	4000	1850	PLINTH LEVEL
V8	2995	3200	550	ANCILLARY LEVEL
V9	2980	3200	550	ANCILLARY LEVEL
V10	9152	3200	550	ANCILLARY LEVEL
V11	2400	3700	1350	PLINTH LEVEL
V12	2050	3700	1350	PLINTH LEVEL

NOTES:

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2. ALL LEVELS ARE IN METERS AND DIMENSIONS ARE IN MILLIMETER.
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4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
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6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
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12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN

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IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV..... " APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.09.2021	DATE: 20.09.2021	DATE: 20.09.2021	DATE: 20.09.2021	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

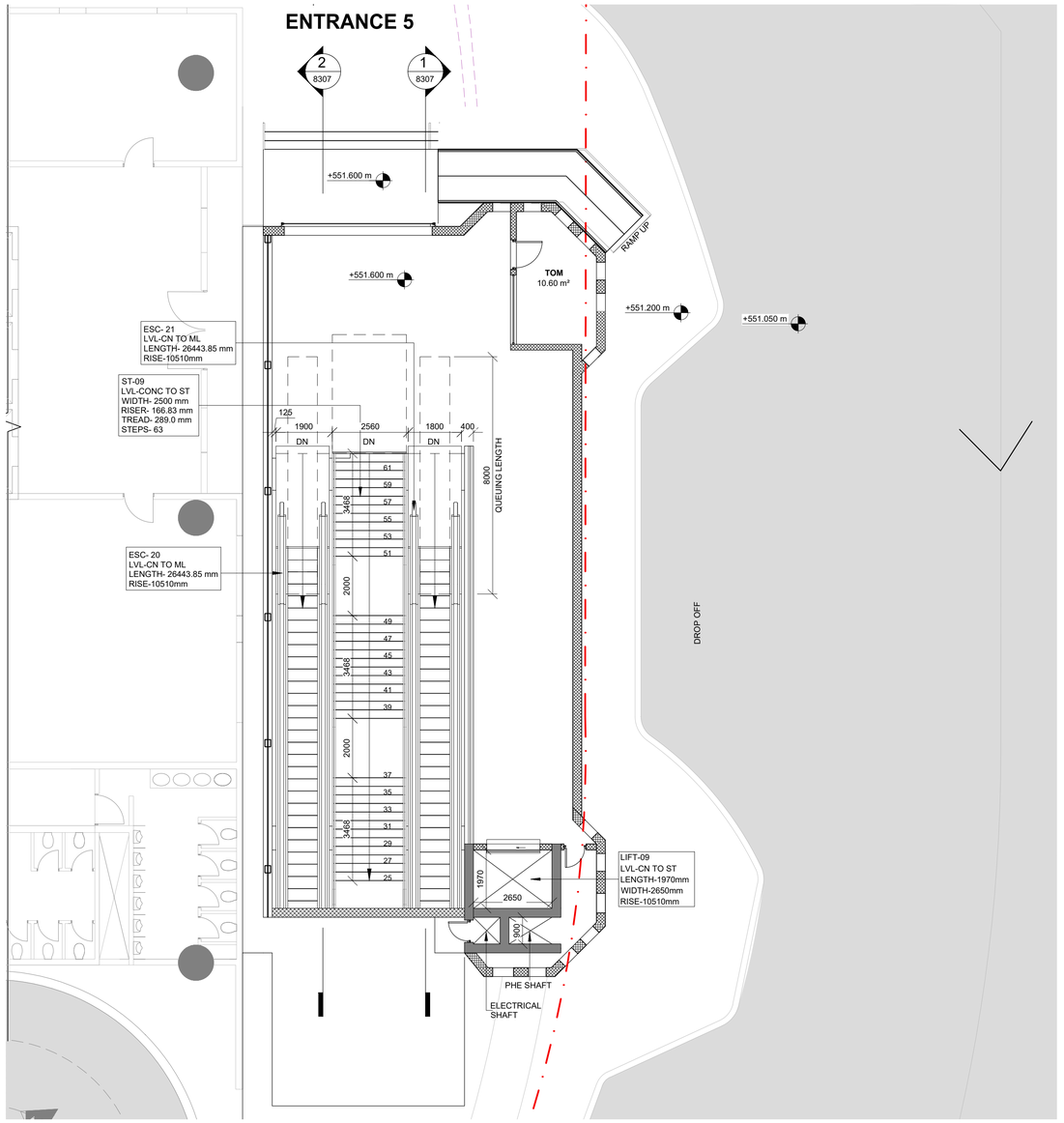
TITLE: **GROUND LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE: 20.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - GL - DRP - 1103

ARCHITECTURE

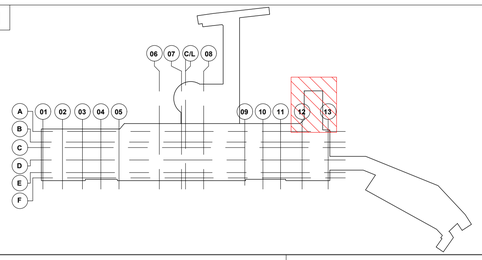
plot scale 50mm



2 **GROUND LEVEL PLAN (4 OF 4)**

1105 Scale: 1 : 100

KEYPLAN



NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 20.09.2021	DATE 20.09.2021	DATE: 20.09.2021	DATE: 20.09.2021	DATE:
NAME: Abhishek Raj	NAME: Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIP

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD.**

LOCATION: **SHIVAJI NAGAR STATION**

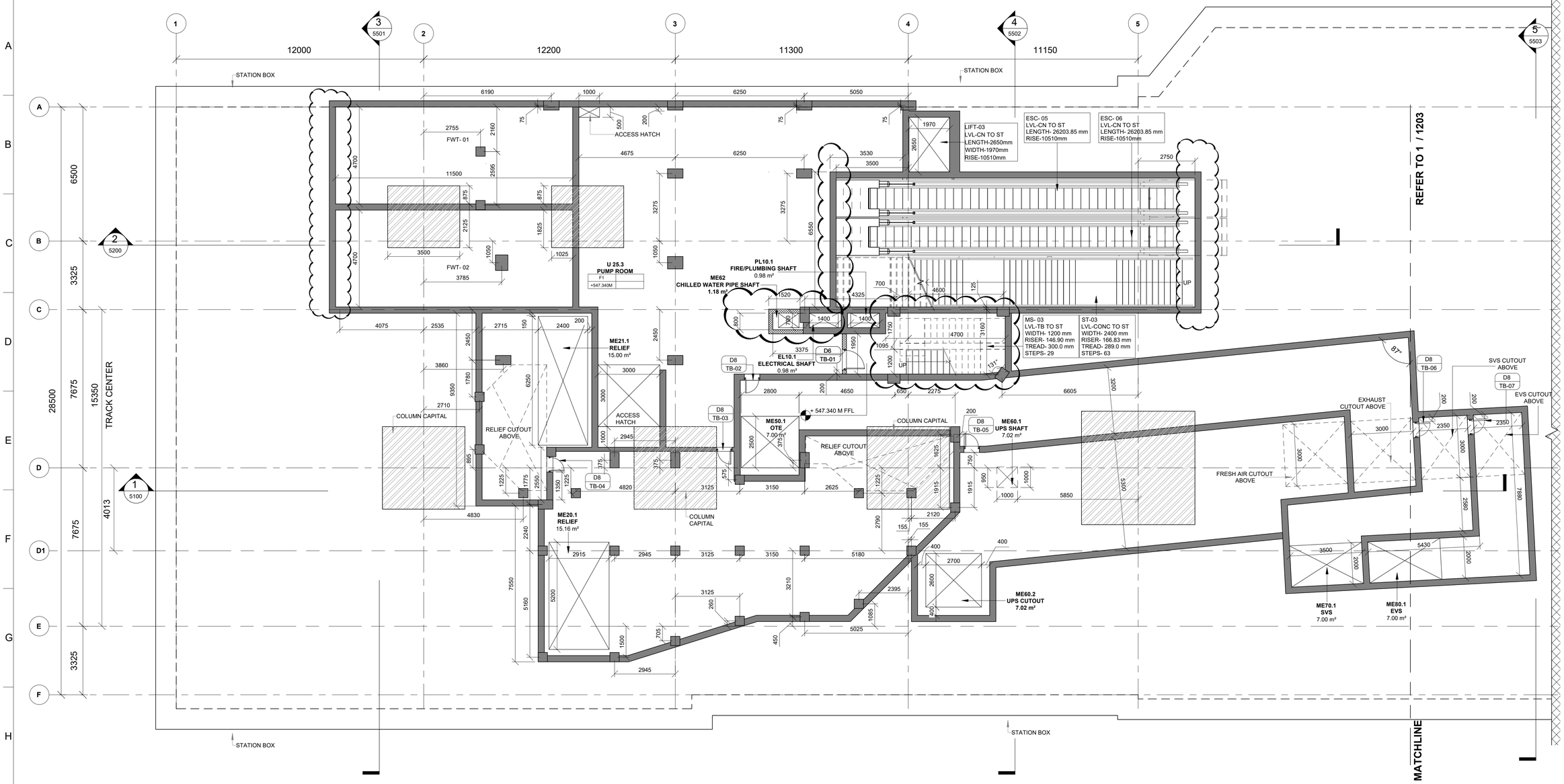
TITLE: **GROUND LEVEL PLAN (4 OF 4)**

SCALE: 1:100 | DATE: 20.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B01

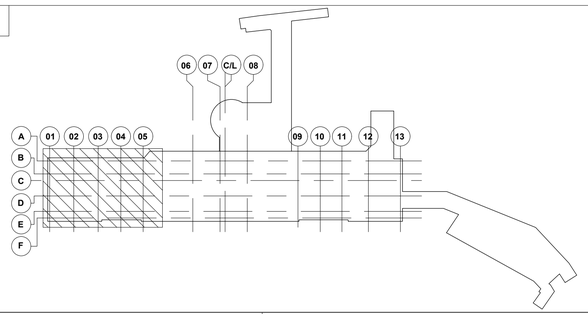
DRG NO: P4D02 - ACM - AR - PRM - SJO - 1105

ARCHITECTURE

plot scale 50mm



KEYPLAN



1 | **TOP OF BOX PLAN (1 OF 2)**
1201 | Scale: 1 : 100

TOP OF BOX

Number	Name	Area
ME21.1	RELIEF	15.00 m²
ME20.1	RELIEF	15.16 m²
ME50.1	OTE	7.00 m²
EL10.1	ELECTRICAL SHAFT	0.98 m²
PL10.1	FIRE/PLUMBING SHAFT	0.98 m²
ME60.1	UPS SHAFT	7.02 m²
ME70.1	SVS	7.00 m²
ME80.1	EVS	7.00 m²
ME13.1	TVS	10.20 m²
ME13.2	TVS	10.13 m²
ME24	RELIEF	10.21 m²
EL12	DG SHAFT	1.76 m²
ME61.1	UPS SHAFT	9.00 m²
ME51.1	OTE	9.02 m²
U 25.3	PUMP ROOM	163.99 m²
ME60.2	UPS CUTOUT	7.02 m²
ME62	Chilled water pipe shaft	1.18 m²

REVISION SCHEDULE

REV. NO.	DESCRIPTION	DATE
B02.1	Fire water tanks moved to top of box level	08.07.2020
B02.2	Staircase MS-04 added	08.07.2020

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
B02	08.08.2020	AS PER GC COMMENTS	
B01		AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 24.08.2021	DATE: 24.08.2021	DATE:24.08.2021	DATE: 24.08.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

☐ Proof checked by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO
DY. HOD
HOD

ECR- SJO-AR-01

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

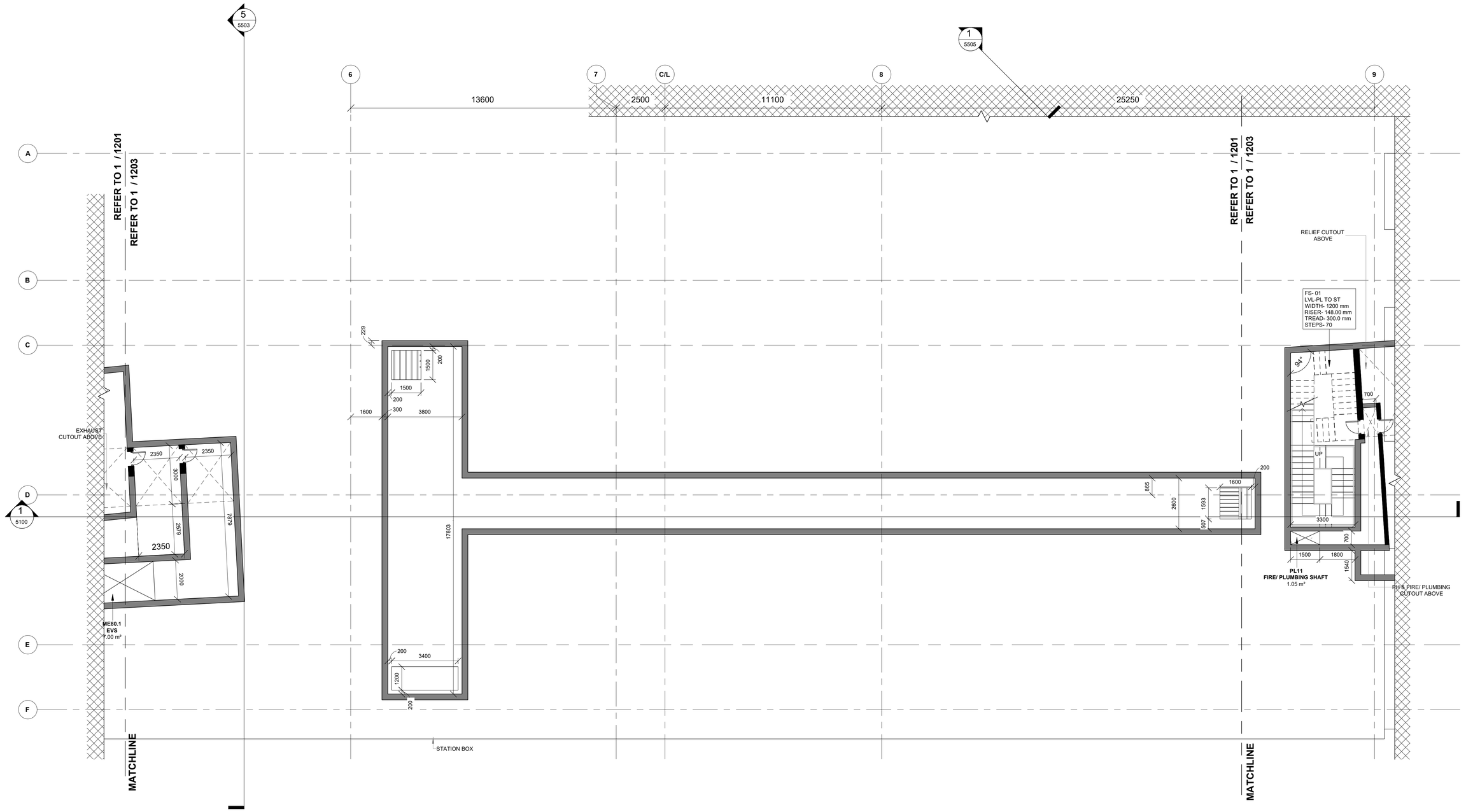
TITLE: **TOP OF BOX PLAN (1 OF 2)**

SCALE: 1:100 | DATE: 24.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - TB - DRP - 1201

ARCHITECTURE

plot scale 50mm



1 ENLARGED TOP OF BOX PLAN (2 OF 3)

1202 Scale: 1 : 100

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 23.12.2021	DATE: 23.12.2021	DATE:23.12.2021	DATE: 23.12.2021	DATE:
NAME: Abhishek Raj	NAME:Shubhi Agarwal	NAME: Abhijit Pegu	NAME: Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

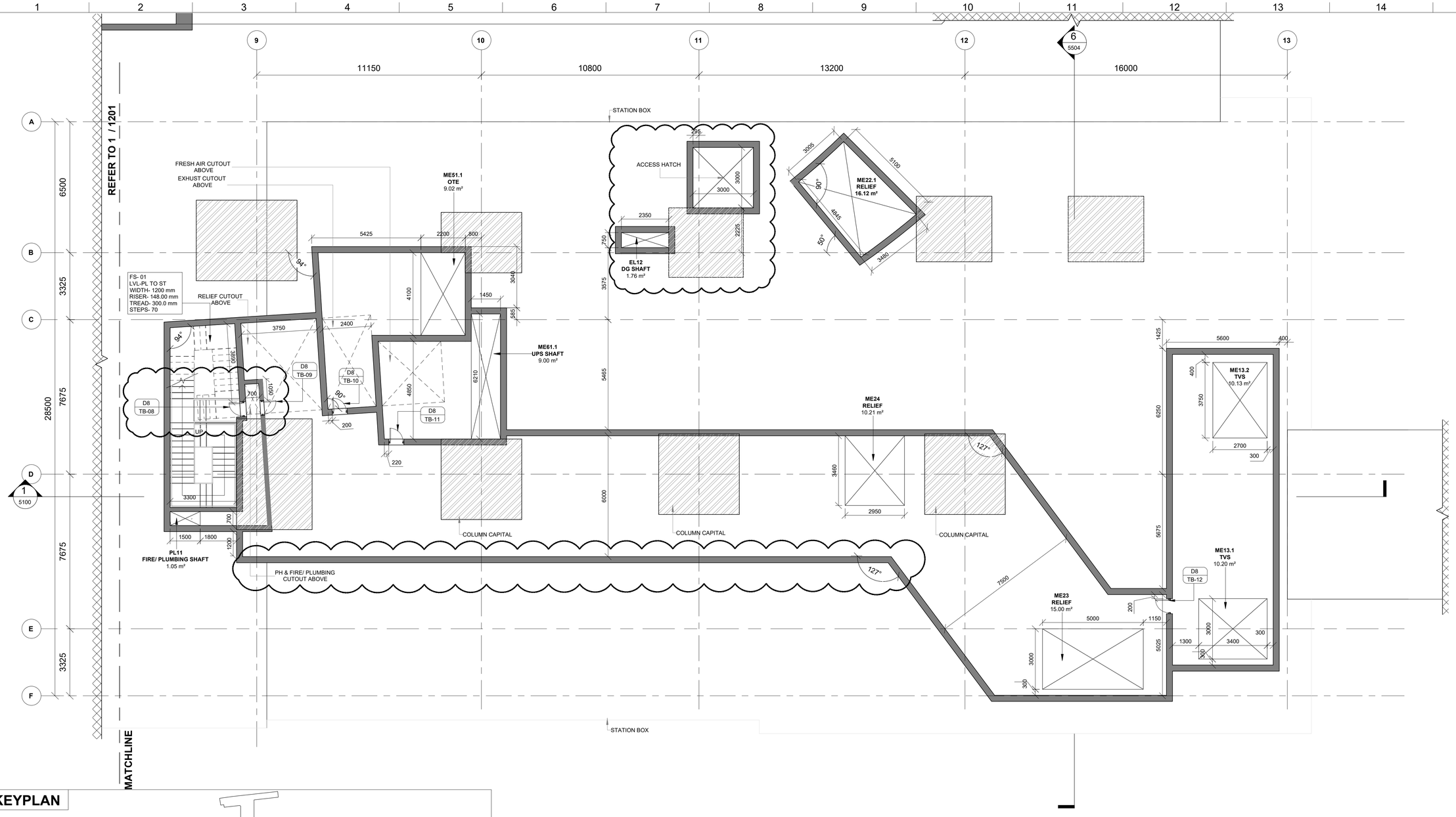
TITLE: **TOP OF BOX PLAN (2 OF 3)**

SCALE: 1:100 | DATE: 23.12.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B01

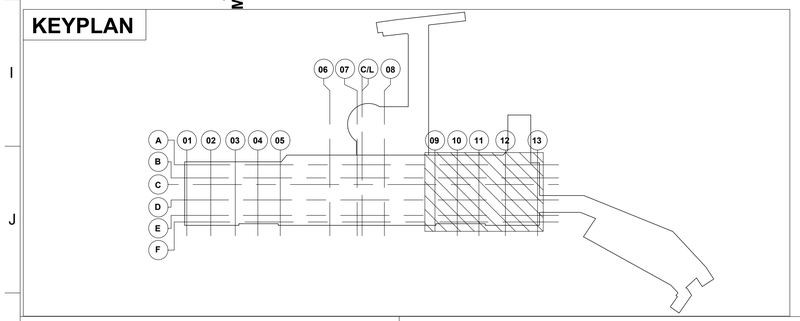
DRG NO: P4D02 - ACM - AR - PRM - SJO - 1202

ARCHITECTURE

plot scale 50mm



KEYPLAN



1 TOP OF BOX PLAN (2 OF 2)

1203 — Scale: 1 : 100

TOP OF BOX

Number	Name	Area
ME21.1	RELIEF	15.00 m²
ME20.1	RELIEF	15.16 m²
EL10.1	ELECTRICAL SHAFT	0.98 m²
PL10.1	FIRE/PLUMBING SHAFT	0.98 m²
ME60.1	UPS SHAFT	7.02 m²
ME70.1	SVS	7.00 m²
ME80.1	EVS	7.00 m²
ME13.1	TVS	10.20 m²
ME13.2	TVS	10.13 m²
ME24	RELIEF	10.21 m²
EL12	DG SHAFT	1.76 m²
ME61.1	UPS SHAFT	9.00 m²
ME51.1	OTE	9.02 m²
U 25.3	PUMP ROOM	164.91 m²
ME60.2	UPS CUTOUT	7.02 m²
ME62	Chilled water pipe shaft	1.18 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

REVISION NOTE:

WALL SHIFTED AS PER THE HEADROOM & CLEARANCE.

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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3. GROUND LEVEL WHERE SHOWN, ARE INDICATIVE. ACTUAL LEVELS SHALL BE TAKEN FROM SURVEY DRAWINGS AND SHALL BE CONFIRMED AT SITE.
4. RCC DIMENSIONS OF EXTERNAL ELEMENTS ARE INDICATIVE ONLY AND SUBJECT TO STRUCTURAL DESIGN.
5. RAIL LEVEL SHOWN IN ARCHITECTURAL DRAWING IS INDICATIVE ONLY.ABSOLUTE RAIL LEVEL SHALL BE DERIVED FROM THE ALIGNEMENT DRAWING.
6. DIAPHRAGM WALL TO SUIT THE FINAL TRACK ALIGNMENT.
7. INFORMATION ON ACTUAL SIZE OF CUTOUT AND OPENINGS SHALL BE AS PER E&M DESIGN.
8. ESCALATOR AND LIFT SIZES ARE INDICATIVE ONLY,AND FINAL SIZES SHALL BE AS PER MANUFACTURER'S REQUIREMENT AS FINALIZED BY MAHA METRO AND THEIR PIT DRAINAGE TO BE AS PER E&M DRAWINGS.
9. REFER PLUMBING DRAWINGS FOR PLUMBING AND DRAINAGE LAYOUT.
10. STRUCTURAL WALL PROFILE AND TBM SHAFT SIZES TO SUIT THE FINAL TRACK ALIGNMENT AND AS PER CONTRACTOR'S DESIGN.
11. ALL ABOVE GROUND STRUCTURES TO BE DESIGNED AS PER DETAILED ARCHITECTURAL DWGS.
12. FOR FINISHES REFER FINISHED DRAWINGS AND TYPICAL DETAIL DRAWINGS.
13. THIS DRAWING WILL BE REVISED ON FINALIZATION OF FINISHES AND ABOVE GROUND STRUCTURES.

REV NO	DATE	DESCRIPTION	SIGN
B02	08.08.2020	AS PER GC COMMENTS	
B01		AS PER GC COMMENTS	

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.

IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "..... REV..... " APPROVED ON DATE .....

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 16.07.2021	DATE: 16.07.2021	DATE:16.07.2021	DATE: 16.07.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM India Pvt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
Fax: 91 124 483 0108, www.aecom.com

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN PROOF CHECKED INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC/ NO OBJECTION.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

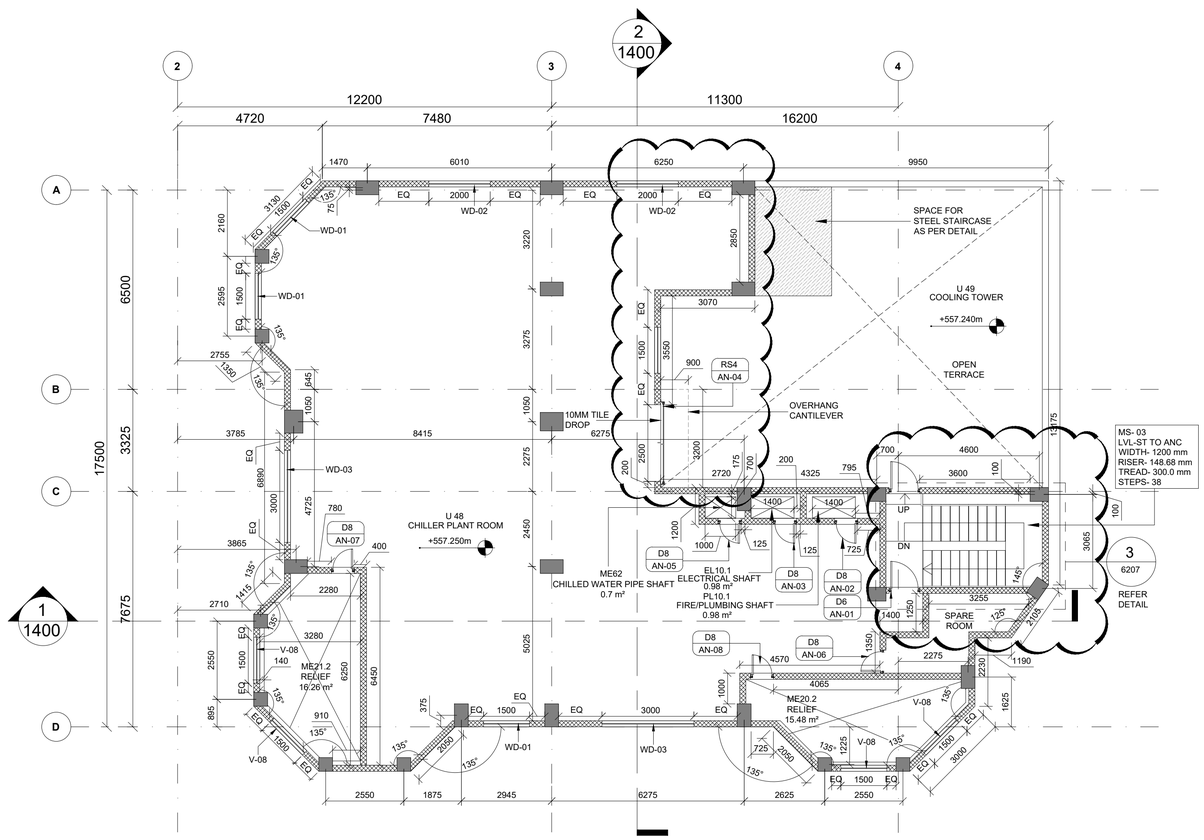
TITLE: **TOP OF BOX PLAN (2 OF 2)**

SCALE: 1:100 | DATE:16.07.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - TB - DRP - 1203

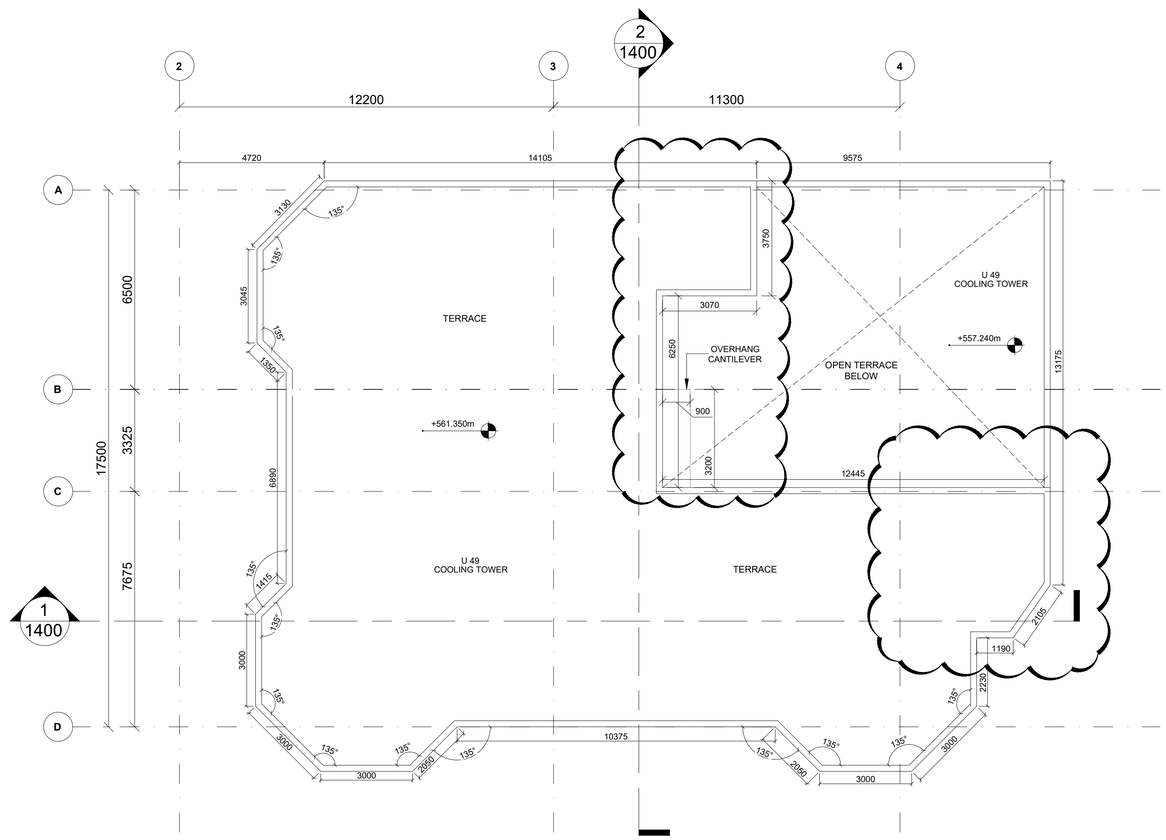
ARCHITECTURE

plot scale 50mm



1 | ANCILLARY LEVEL PLAN

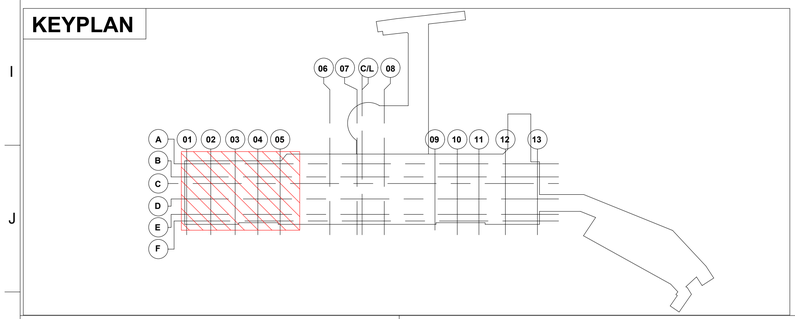
1400 | Scale: 1 : 100



1 | ENTRY -1 ROOF LEVEL PLAN

1400 | Scale: 1 : 100

KEYPLAN



REVISION SCHEDULE

REV. NO.	DESCRIPTION	DATE
B04.1	Chiller Plant room as per MEP	12.10.2021
B04.2	Cooling Tower	12.10.2021

ANCILLARY LEVEL

Number	Name	Area
U 49	COOLING TOWER	432.74 sqm
U 48	CHILLER PLANT ROOM	253.37 sqm
-	SARE ROOM	7.06 sqm

LOUVER SCHEDULE

Mark	Length	Height	Sill Level	Level
V8	1500	8000	1100 (+552.700 M)	ANCILLARY LEVEL

WNDOW SCHEDULE

Mark	Length	Height	Sill Level	Level
WD1	1500	3000	900	ANCILLARY LEVEL
WD2	2000	3000	900	ANCILLARY LEVEL
WD3	3000	3000	900	ANCILLARY LEVEL

NOTES:

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REV NO	DATE	DESCRIPTION	SIGN
B04	12.10.2021	AS PER GC COMMENTS	
B03	09.09.2021	AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 12.10.2021	DATE: 12.10.2021	DATE:12.10.2021	DATE: 12.10.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

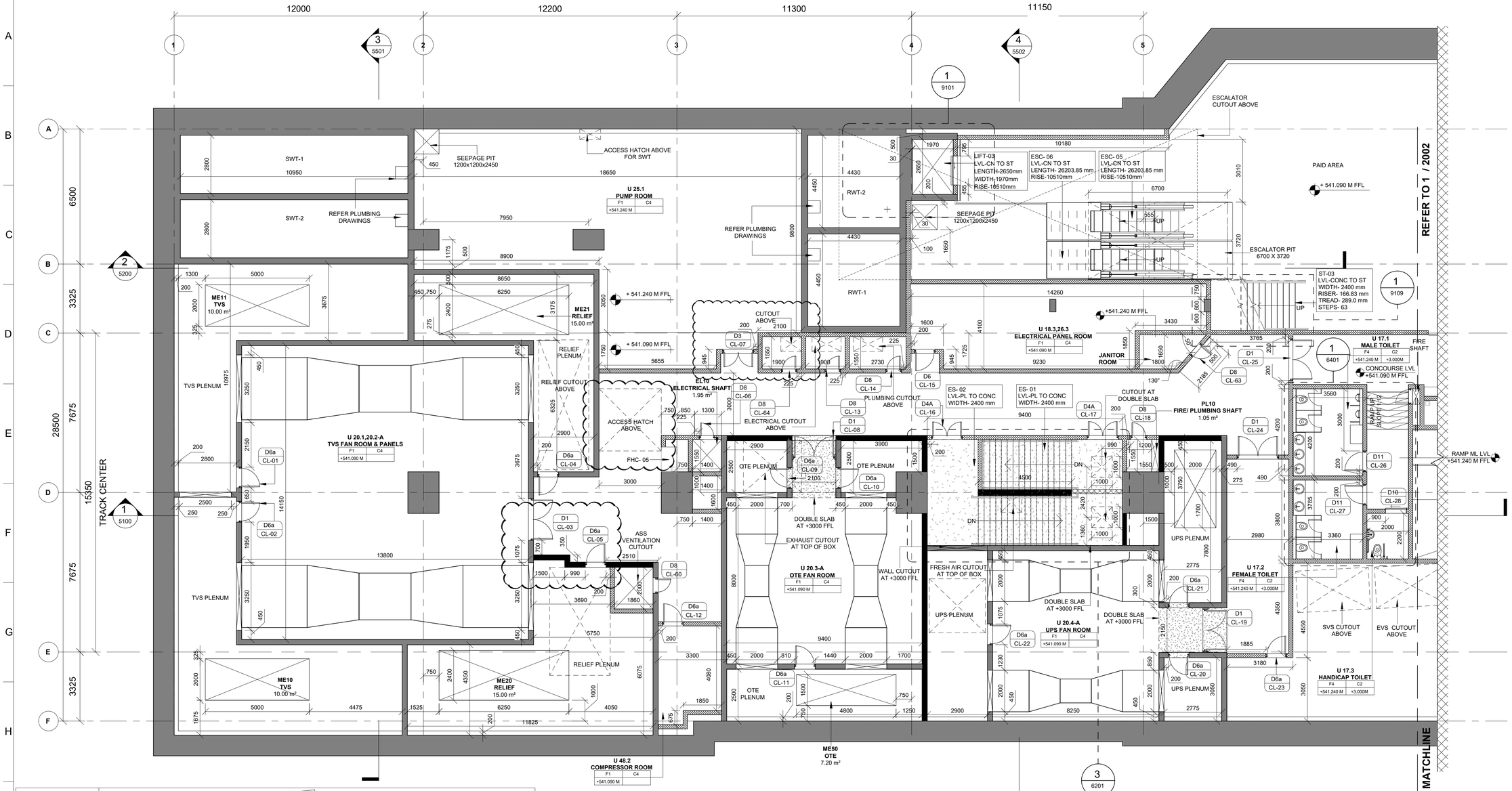
TITLE: **ANCILLARY & ROOF LEVEL PLAN**

SCALE: 1:100 | DATE:12.10.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B04

DRG NO: P4D02 - ACM - AR - PRM - SJO - AL - DRP - 1400

ARCHITECTURE

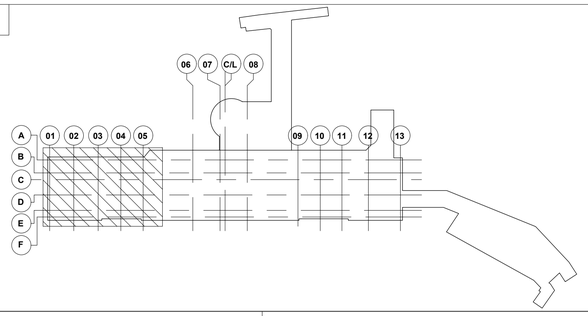
plot scale 50mm



1 CONCOURSE LEVEL PLAN (1 OF 5)

2001 Scale: 1 : 100

KEYPLAN



Revisions:
01. Door swings are changed at some locations.
02. MEP cutouts are revised at concourse and platform level.
03.Refer ES-01, ES-02, ES-03 & ES-04 to the detailed drawings (B02).
04.Other changes are clouded as revision.

CONCOURSE LEVEL

Number	Name	Area
U 20.1,20.2-A	TVS FAN ROOM & PANELS	192.27 m²
U 48.2	COMPRESSOR ROOM	13.24 m²
U 20.3-A	OTE FAN ROOM	80.04 m²
U 20.4-A	UPS FAN ROOM	72.13 m²
U 18.3,26.3	ELECTRICAL PANEL ROOM	39.75 m²
U 48.1	AHU ROOM	454.17 m²
U 20.3-B	OTE FAN ROOM	75.25 m²
U 22/23	S&T EQUIPMENT ROOM	74.94 m²
U 20.4-B	UPS FAN ROOM	95.16 m²
U 24	S&T UPS/BATTERY	54.25 m²
U 20.1,20.2-B	TVS FAN ROOM & PANELS	231.35 m²
U 10	STORE ROOM	17.80 m²
U 25.1	PUMP ROOM	173.51 m²
U 48.3	TVS PANEL ROOM	14.90 m²
U 26.4	ELECTRICAL PANEL ROOM	18.23 m²
ME10	TVS	10.00 m²
ME20	RELIEF	15.00 m²
ME11	TVS	10.00 m²
ME21	RELIEF	15.00 m²
ME50	OTE	7.20 m²
ME70	SVS	3.38 m²
ME80	EVS	3.38 m²
ME51	OTE	6.40 m²
ME23	RELIEF	15.00 m²
ME13	TVS	10.20 m²
ME12	TVS	10.08 m²
ME22	RELIEF	15.00 m²
U 17.1	MALE TOILET	13.54 m²
U 17.2	FEMALE TOILET	12.45 m²
U 17.3	HANDICAP TOILET	4.39 m²
EL13	ELECTRICAL SHAFT	1.81 m²
-	PLENUM	16.34 m²
-	PLENUM	30.11 m²
-	STAIRCASE PRESSURIZATION	2.32 m²
-	STAIRCASE	18.16 m²
-	STAIRCASE	31.13 m²
-	PLENUM	29.85 m²
-	CORRIDOR	81.93 m²
-	CORRIDOR	153.82 m²
-	STAIRCASE	13.85 m²
ES-30	SCR/EFO	43.48 m²
ES-31	EFO	10.10 m²
ES-32	TOM	16.94 m²
ES-33	RETAIL	24.95 m²
ME60	UPS SHAFT	7.50 m²

REVISION SCHEDULE

REV. NO.	DESCRIPTION	DATE
B02.1	Soft water tanks moved to concourse level	08.07.2020
B02.2	Plenum doors added	08.07.2020

LEGEND

EARTH COVER
CONCRETE SECTION
SUB GRADE FILLED
BLOCKWORK WALL
STR. WALL (AS/STR. DWG)
DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

NOTES:
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REV NO	DATE	DESCRIPTION	SIGN
B03	13.08.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 13.08.2021	DATE: 13.08.2021	DATE: 13.08.2021	DATE: 13.08.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

AECOM-SYSTRA-CEG

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

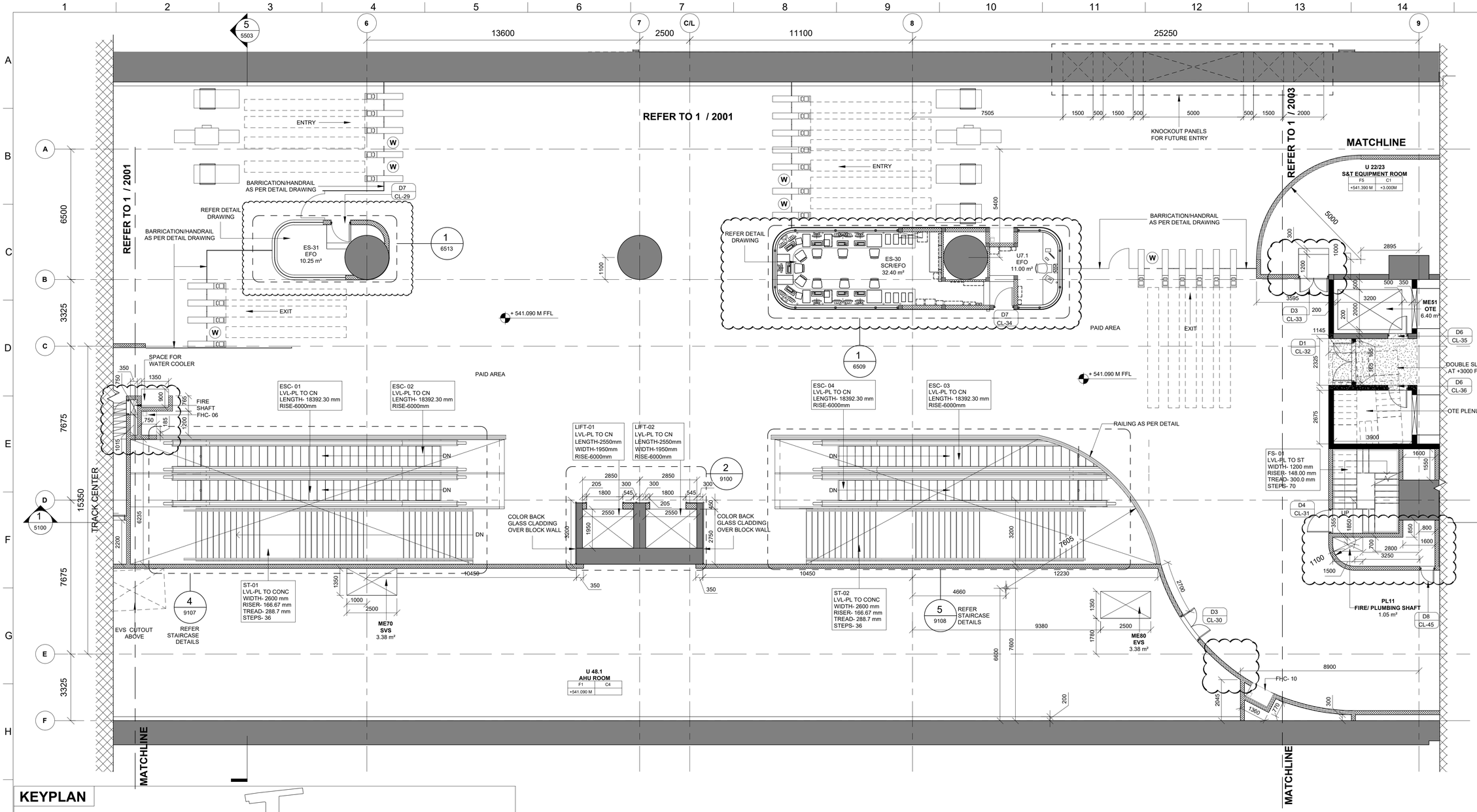
TITLE: **CONCOURSE LEVEL PLAN (1 OF 5)**

SCALE: 1:100 | DATE:13.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

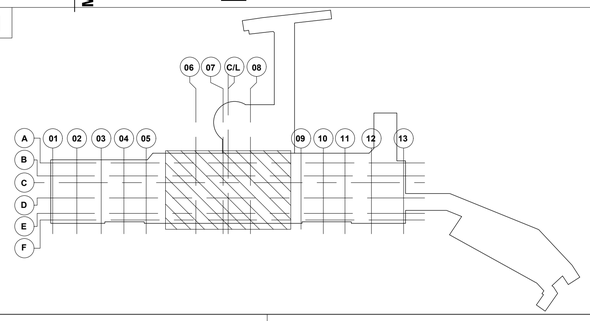
DRG NO: P4D02 - ACM - AR - PRM - SJO - CL - DRP - 2001

ARCHITECTURE

plot scale 50mm



KEYPLAN



1 | **CONCOURSE LEVEL PLAN (2 OF 5)**
2002 | Scale: 1 : 100

Revisions:
01. Door swings are changed at some locations.
02. MEP cutouts are revised at concourse and platform level.
03.Refer ES-01, ES-02, ES-03 & ES-04 to the detailed drawings (B02).
04.Other changes are clouded as revision.

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ES-33	RETAIL	24.95 m²
ME60	UPS SHAFT	7.50 m²

REVISION SCHEDULE

REV. NO.	DESCRIPTION	DATE
B02.1	AFC gates revised	08.07.2020
B02.2	SCR design changed	08.07.2020

LEGEND

EARTH COVER
CONCRETE SECTION
SUB GRADE FILLED
BLOCKWORK WALL
STR. WALL (AS/STR. DWG)
DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 13.08.2021	DATE: 13.08.2021	DATE: 13.08.2021	DATE: 13.08.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

AECOM
AECOM India PVt. Ltd.
9/F, Infinity Tower C, DLF Cyber City, Phase II,
Gurgaon 122 002, India Tel: 91 124 483 0100
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PROOF CONSULTANT			
SIGN:	SIGN:	SIGN:	SIGN:
DATE:	DATE:	DATE:	DATE:
NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

NIL

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

AECOM-SYSTRA-CEG

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS.

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

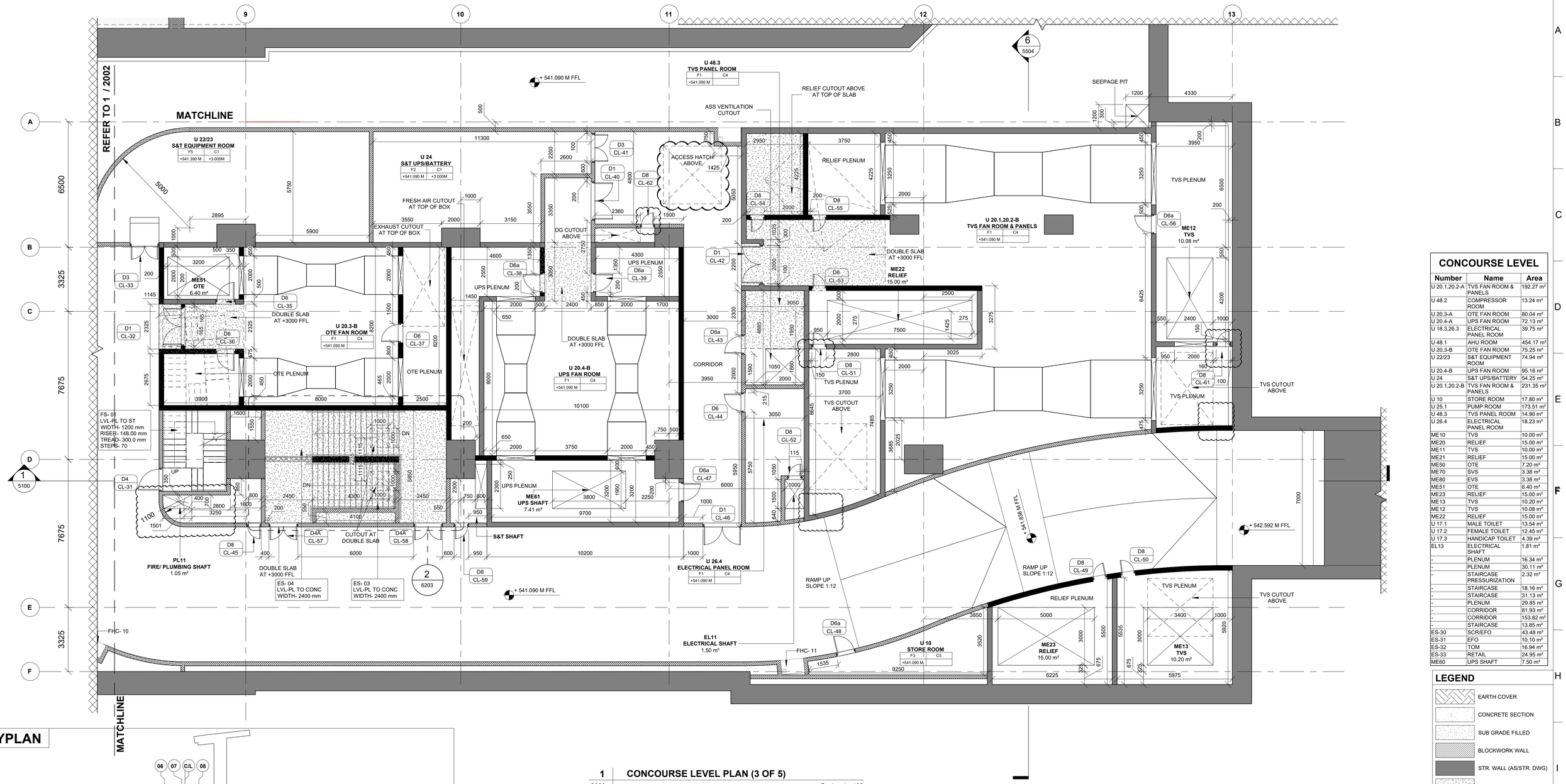
TITLE: **CONCOURSE LEVEL PLAN (2 OF 5)**

SCALE: 1:100 | DATE:13.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

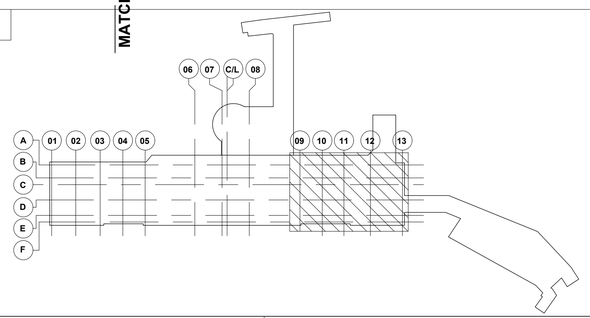
DRG NO: P4D02 - ACM - AR - PRM - SJO - CL - DRP - 2002

ARCHITECTURE

plot scale 50mm



KEYPLAN



1 | CONCOURSE LEVEL PLAN (3 OF 5)
2003 | Scale: 1 : 100

CONCOURSE LEVEL

Number	Name	Area
U 20.1,20.2-A	TVS FAN ROOM & PANELS	192.27 m²
U 48.2	COMPRESSOR ROOM	13.24 m²
U 20.3-A	OTE FAN ROOM	80.04 m²
U 20.4-A	UPS FAN ROOM	72.13 m²
U 18.3,26.3	ELECTRICAL PANEL ROOM	39.75 m²
U 48.1	AHU ROOM	454.17 m²
U 20.3-B	OTE FAN ROOM	75.25 m²
U 22/23	S&T EQUIPMENT ROOM	74.94 m²
U 20.4-B	UPS FAN ROOM	95.16 m²
U 24	S&T UPS/BATTERY	54.25 m²
U 20.1,20.2-B	TVS FAN ROOM & PANELS	231.35 m²
U 10	STORE ROOM	17.80 m²
U 25.1	PUMP ROOM	173.51 m²
U 48.3	TVS PANEL ROOM	14.90 m²
U 26.4	ELECTRICAL PANEL ROOM	18.23 m²
ME10	TVS	10.00 m²
ME20	RELIEF	15.00 m²
ME11	TVS	10.00 m²
ME21	RELIEF	15.00 m²
ME50	OTE	7.20 m²
ME70	SVS	3.38 m²
ME80	EVS	3.38 m²
ME51	OTE	6.40 m²
ME23	RELIEF	15.00 m²
ME13	TVS	10.20 m²
ME12	TVS	10.08 m²
ME22	RELIEF	15.00 m²
U 17.1	MALE TOILET	13.54 m²
U 17.2	FEMALE TOILET	12.45 m²
U 17.3	HANDICAP TOILET	4.39 m²
EL13	ELECTRICAL SHAFT	1.81 m²
-	PLENUM	16.34 m²
-	PLENUM	30.11 m²
-	STAIRCASE PRESSURIZATION	2.32 m²
-	STAIRCASE	18.16 m²
-	STAIRCASE	31.13 m²
-	PLENUM	29.85 m²
-	CORRIDOR	81.93 m²
-	CORRIDOR	153.82 m²
-	STAIRCASE	13.85 m²
ES-30	SCR/EFO	43.48 m²
ES-31	EFO	10.10 m²
ES-32	TOM	16.94 m²
ES-33	RETAIL	24.95 m²
ME60	UPS SHAFT	7.50 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

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01. Door swings are changed at some locations.
02. MEP cutouts are revised at concourse and platform level.
03.Refer ES-01, ES-02, ES-03 & ES-04 to the detailed drawings (B02).
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AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN
B03	13.08.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

NIA

- Proof checked by GC
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SIGN:		SIGN:	
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

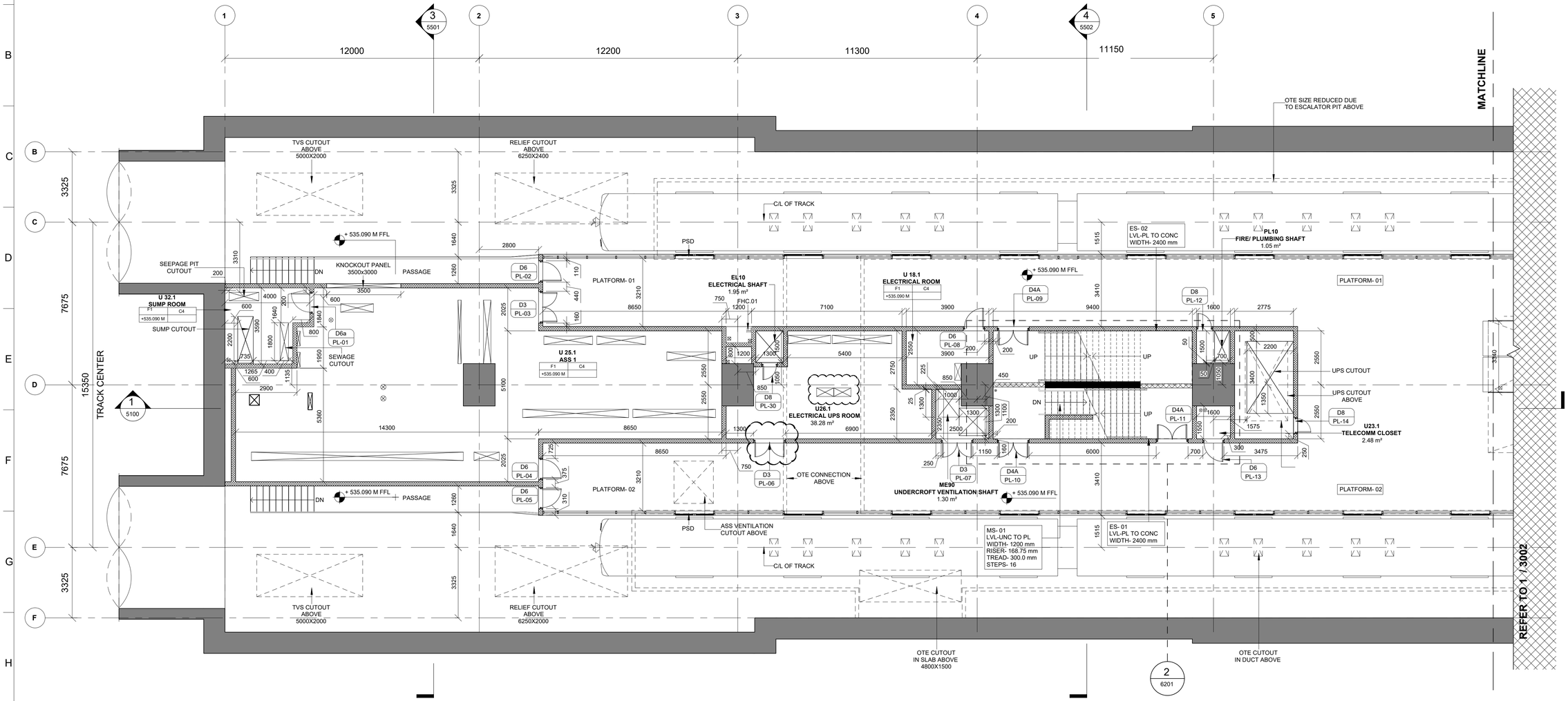
TITLE: **CONCOURSE LEVEL PLAN (3 OF 5)**

SCALE: 1:100 | DATE:13.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - CL - DRP - 2003

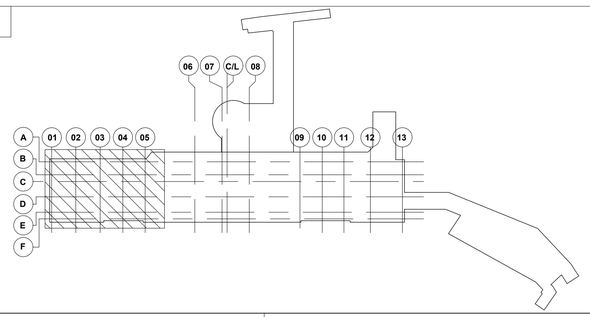
ARCHITECTURE

plot scale 50mm



1 | **PLATFORM LEVEL PLAN (1 OF 3)**
3001 | Scale: 1 : 100

KEYPLAN



PLATFORM

Number	Name	Area
U 32.1	SUMP ROOM	12.02 m²
U 25.1	ASS 1	160.29 m²
U 18.1	ELECTRICAL ROOM	8.64 m²
U 18.2	ELECTRICAL ROOM	11.99 m²
U 26.2	ELECTRICAL UPS ROOM	44.31 m²
U 25.2	ASS 2	162.90 m²
U 32.2	SUMP ROOM	11.09 m²
EL10	ELECTRICAL SHAFT	1.95 m²
ME90	UNDERCROFT VENTILATION SHAFT	1.30 m²
PL10	FIRE/ PLUMBING SHAFT	1.05 m²
PL11	FIRE/ PLUMBING SHAFT	1.05 m²
ST10	S&T SHAFT	3.40 m²
ME61	UPS SHAFT	7.41 m²
ME91	UNDERCROFT VENTILATION SHAFT	1.00 m²
EL11	ELECTRICAL SHAFT	1.50 m²
U26.1	ELECTRICAL UPS ROOM	38.28 m²
ES-02	EMERGENCY STAIRCASE	22.95 m²
ES-01	EMERGENCY STAIRCASE	22.62 m²
FS01	FIRE STAIRCASE	13.85 m²
ES-04	EMERGENCY STAIRCASE	22.93 m²
ES-03	EMERGENCY STAIRCASE	22.68 m²
U23.1	TELECOMM CLOSET	2.48 m²

Revision Schedule

Revision No.	Revision Date	Revision Description
B02.2	10/07/2020	Door position revised

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

Revisions:
01. Door swings are changed at some locations.
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DATE:	DATE:
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REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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REVIEWED BY		APPROVED BY	
SIGN:		SIGN:	
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PROJECT: **PUNE METRO RAIL PROJECT**
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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

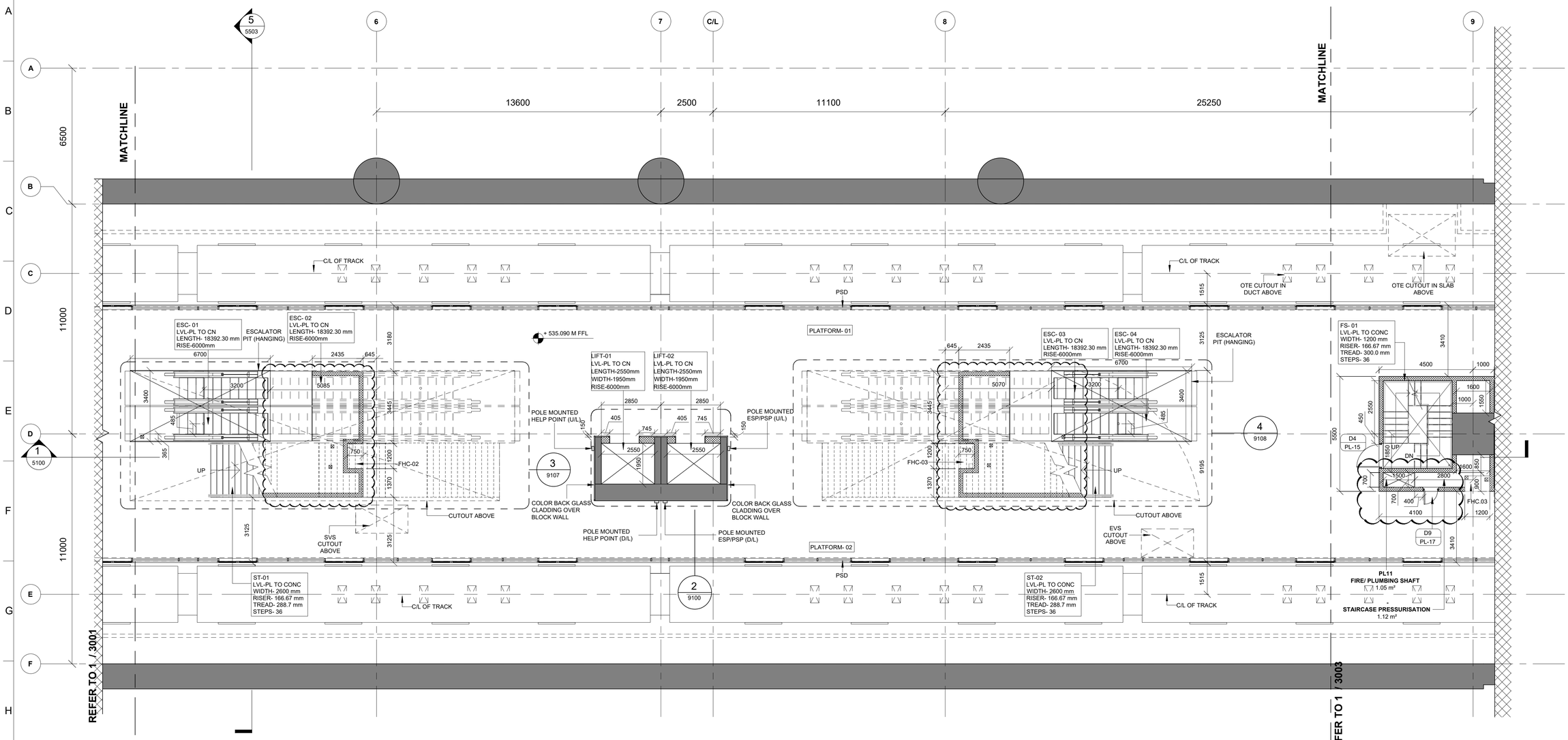
TITLE: **PLATFORM LEVEL PLAN (1 OF 3)**

SCALE: 1:100 | DATE:13.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - PT - DRP - 3001

ARCHITECTURE

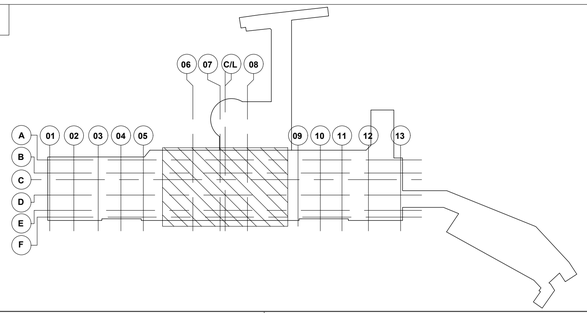
plot scale 50mm



1 PLATFORM LEVEL PLAN (2 OF 3)

3002 Scale: 1 : 100

KEYPLAN



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NAME:	NAME:	NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)	REVIEWED BY	APPROVED BY

N/A

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COUNTER SIGNED BY MAHA METRO

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

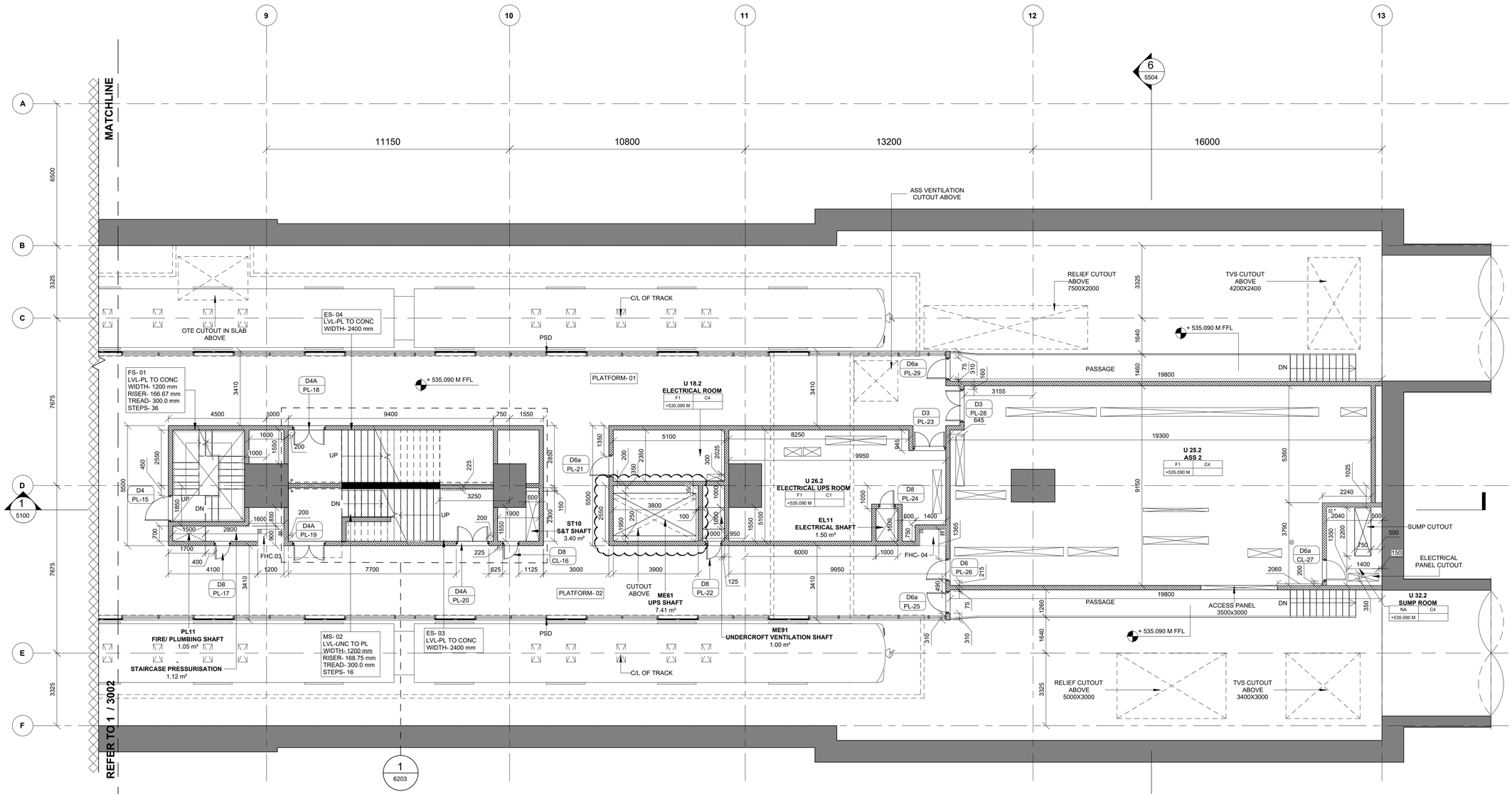
TITLE: **PLATFORM LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE: 13.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - PT - DRP - 3002

ARCHITECTURE

plot scale 50mm



PLATFORM

Number	Name	Area
U 32.1	SUMP ROOM	12.02 m²
U 25.1	ASS 1	160.29 m²
U 18.1	ELECTRICAL ROOM	8.64 m²
U 18.2	ELECTRICAL ROOM	11.99 m²
U 26.2	ELECTRICAL UPS ROOM	44.31 m²
U 25.2	ASS 2	162.90 m²
U 32.2	SUMP ROOM	11.09 m²
EL10	ELECTRICAL SHAFT	1.95 m²
ME90	UNDERCROFT VENTILATION SHAFT	1.30 m²
PL10	FIRE/ PLUMBING SHAFT	1.05 m²
PL11	FIRE/ PLUMBING SHAFT	1.05 m²
ST10	S&T SHAFT	3.40 m²
ME61	UPS SHAFT	7.41 m²
ME91	UNDERCROFT VENTILATION SHAFT	1.00 m²
EL11	ELECTRICAL SHAFT	1.50 m²
U26.1	ELECTRICAL UPS ROOM	38.28 m²
ES-02	EMERGENCY STAIRCASE	22.95 m²
ES-01	EMERGENCY STAIRCASE	22.62 m²
FS01	FIRE STAIRCASE	13.85 m²
ES-04	EMERGENCY STAIRCASE	22.93 m²
ES-03	EMERGENCY STAIRCASE	22.68 m²
U23.1	TELECOMM CLOSET	2.48 m²

LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

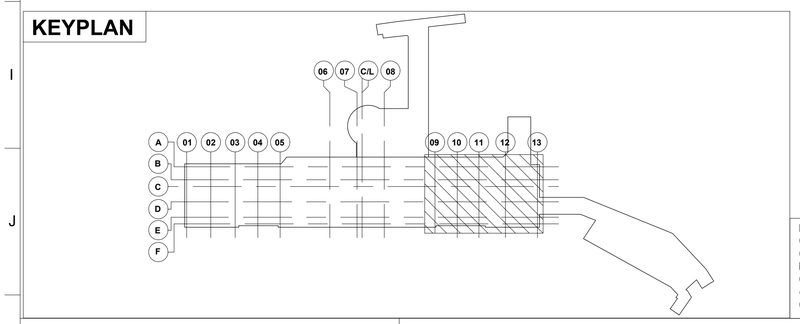
FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

1 PLATFORM LEVEL PLAN (3 OF 3)
3003
Scale: 1 : 100

KEYPLAN



Revisions:
01. Door swings are changed at some locations.
02. MEP cutouts are revised at concourse and platform level.
03.Refer ES-01, ES-02, ES-03 & ES-04 to the detailed drawings (B02).
04.Other changes are clouded as revision.

THIS IS CERTIFIED THAT CONCENT OF MAHA METRO HODS OF CONCERNED DEPARTMENT HAS BEEN TAKEN BY GC EXPERTS

Chief System Expert	Chief MEP Expert	Chief Telecom Expert	Chief PHE Expert	Chief Lift/Escalator Expert
AFC Expert	Structural Expert	PHE Expert	Electrical Expert	Mechanical Expert

AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN
B03	13.08.2021	AS PER GC COMMENTS	
B02	15.09.2020	AS PER GC COMMENTS	

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 13.08.2021	DATE: 13.08.2021	DATE: 13.08.2021	DATE: 13.08.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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9/F, Infinity Tower C, DLF Cyber City, Phase II,
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PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

- ☐ Proof checked by GC
- ☐ Being Given No Objection
- ☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO
DY. HOD
HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

TITLE: **PLATFORM LEVEL PLAN (3 OF 3)**

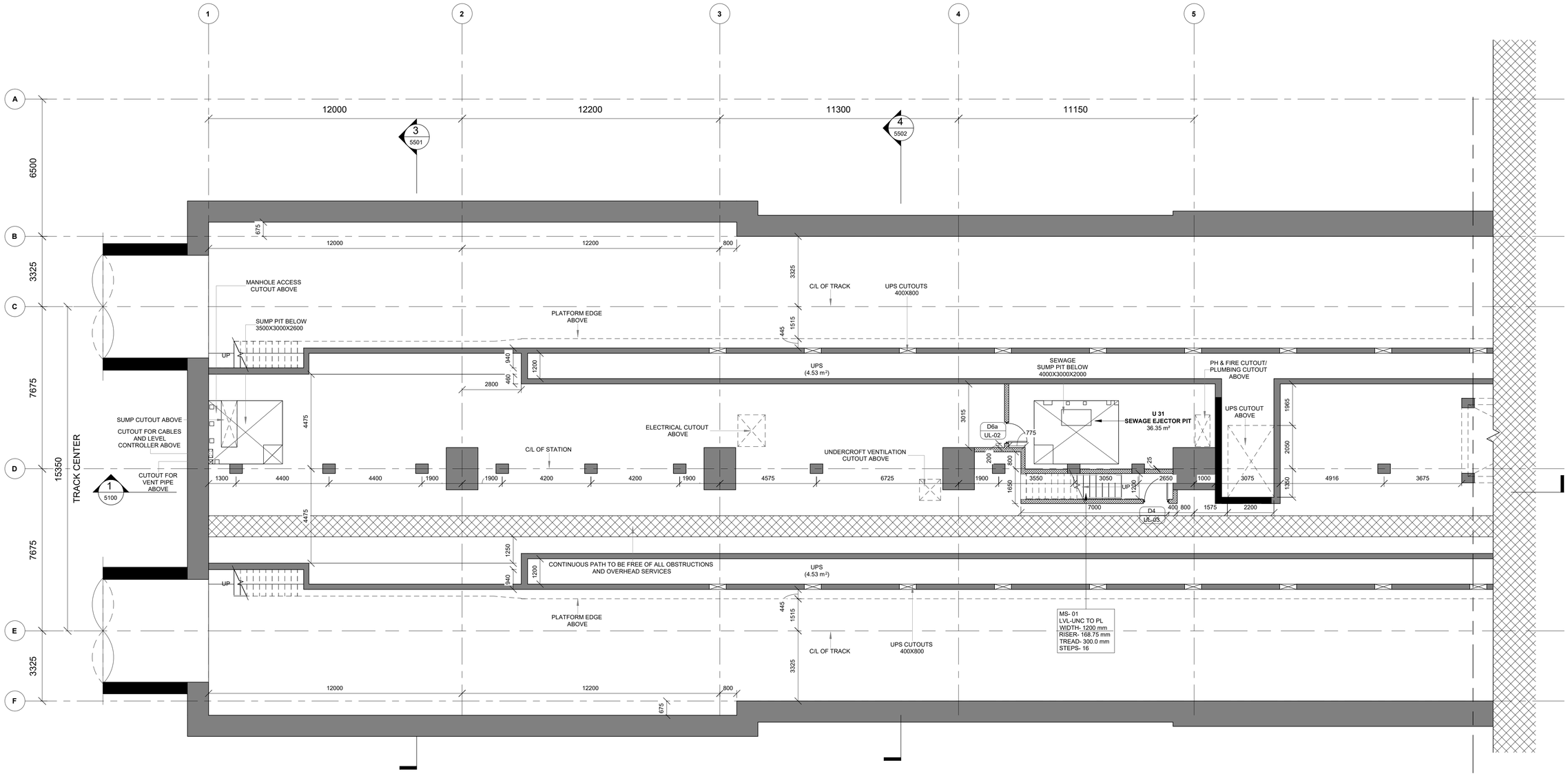
SCALE: 1:100 | DATE:13.08.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - PT - DRP - 3003

ARCHITECTURE

plot scale 50mm

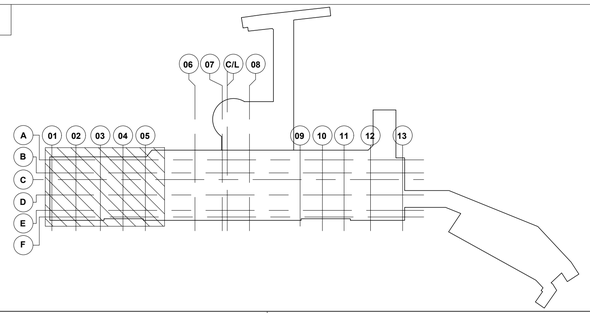
UNDERCROFT		
Number	Name	Area
U 31	SEWAGE EJECTOR PIT	36.35 m²



1 | UNDERCROFT LEVEL PLAN (1 OF 3)

4001 | Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

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AECOM-SYSTRA-CEG

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REV NO	DATE	DESCRIPTION	SIGN

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DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 23.09.2021	DATE: 23.09.2021	DATE:23.09.2021	DATE: 23.09.2021	DATE:
NAME:Abhishek Raj	NAME:Shubhi Agarwal	NAME:Abhijit Pegu	NAME:Anand Selvaraj	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

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PROOF CONSULTANT				
SIGN:	SIGN:			
DATE:	DATE:			
NAME:	NAME:			
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)			

N/A

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SIGN:		SIGN:	
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NAME:		NAME:	
REVIEWED BY		APPROVED BY	

AECOM-SYSTRA-CEG
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

TITLE: **UNDERCROFT LEVEL PLAN (1 OF 3)**

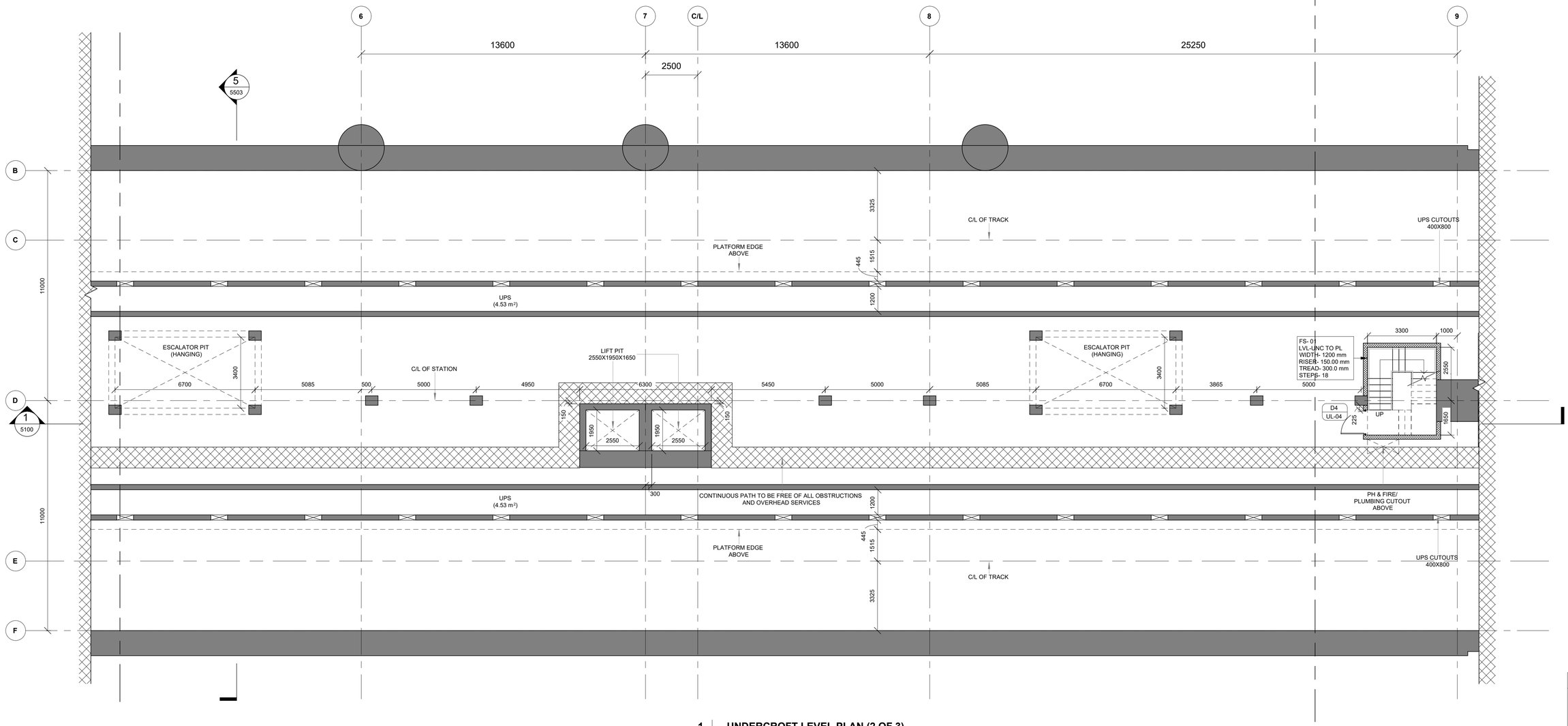
SCALE: 1:100	DATE: 23.09.2021	STATUS: GOOD FOR CONSTRUCTION	REVISION NO:

DRG NO: P4D02 - ACM - AR - PRM - SJO - UL - DRP - 4001 | B03

ARCHITECTURE

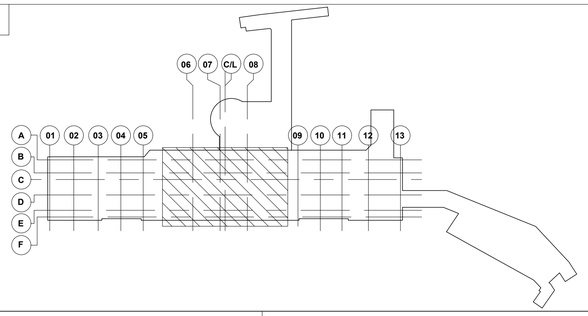
plot scale 50mm

UNDERCROFT		
Number	**Name**	**Area**
U 31	SEWAGE EJECTOR PIT	36.35 m²



1 | **UNDERCROFT LEVEL PLAN (2 OF 3)**
4002 | Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILLING FINISH
FLOOR LEVEL	CEILING HEIGHT

REFER FLOORING & CEILING DRAWINGS FOR DETAIL

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REV NO	DATE	DESCRIPTION	SIGN
B03	22.09.2021	AS PER GC COMMENTS	
B02	08.08.2020	AS PER GC COMMENTS	

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DATE: 23.09.2021	DATE: 23.09.2021	DATE:23.09.2021	DATE: 23.09.2021	DATE:
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SIGN:	SIGN:		
DATE:	DATE:		
NAME:	NAME:		

N.A.

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COUNTER SIGNED BY MAHA METRO

DY. HOD

HOD

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AECOM-SYSTRA-CEG

PROJECT: **PUNE METRO RAIL PROJECT**
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, Maharashtra, India

CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

TITLE: **UNDERCROFT LEVEL PLAN (2 OF 3)**

SCALE: 1:100 | DATE: 23.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - UL - DRP - 4002

ARCHITECTURE

plot scale 50mm

UNDERCROFT		
Number	Name	Area
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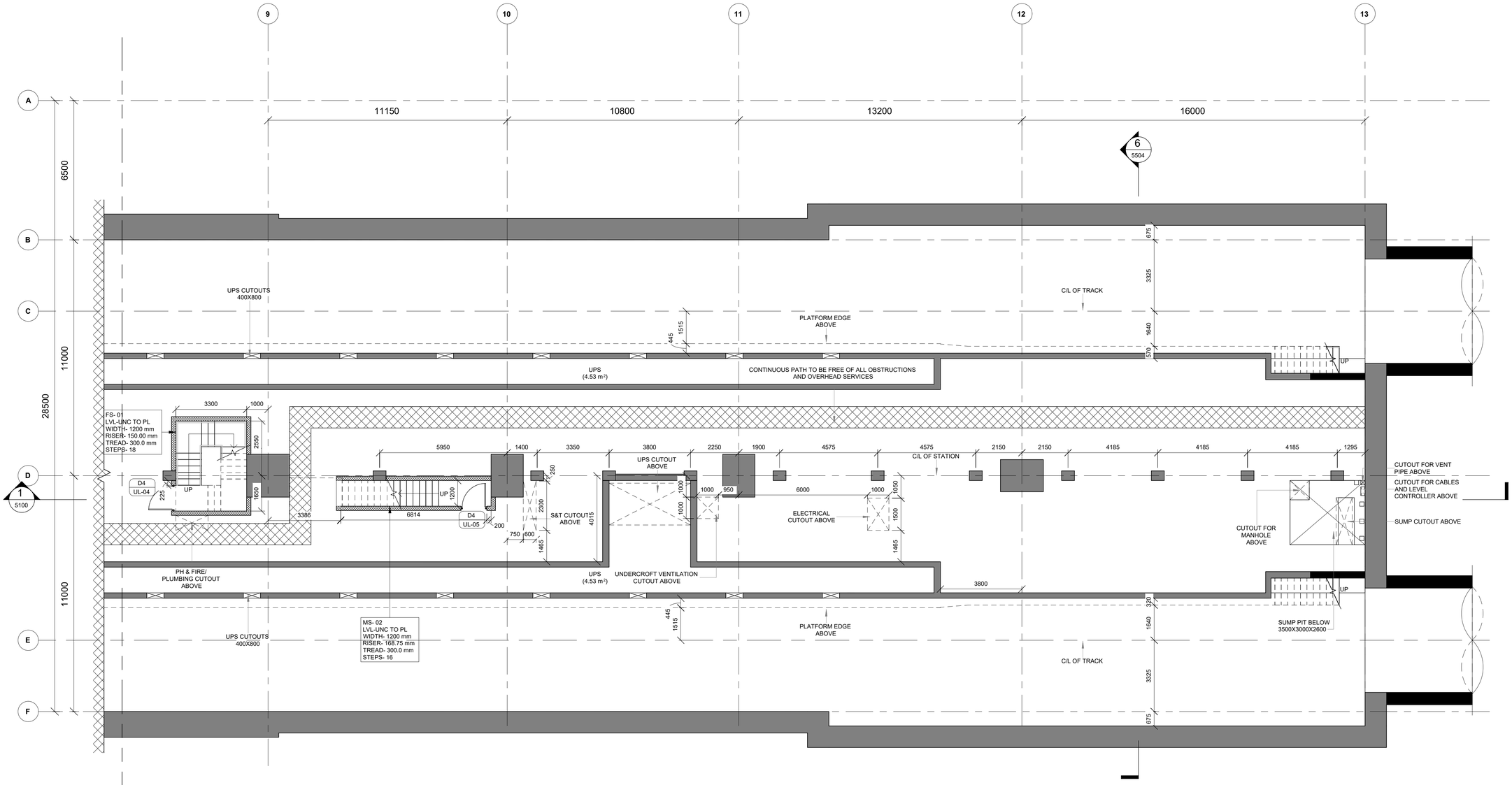
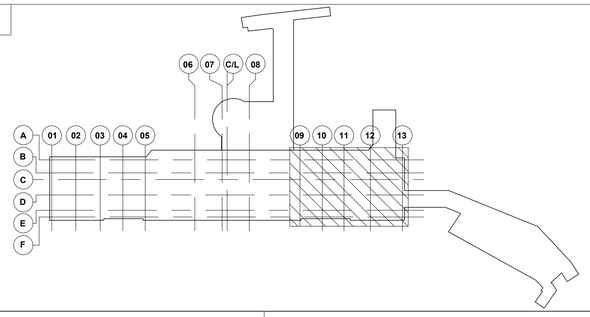


1 | UNDERCROFT LEVEL PLAN (3 OF 3)

4003 | Scale: 1 : 100

KEYPLAN



LEGEND

- EARTH COVER
- CONCRETE SECTION
- SUB GRADE FILLED
- BLOCKWORK WALL
- STR. WALL (AS/STR. DWG)
- DOUBLE SLAB

FINISHES TAG

FLOOR FINISH	CEILING FINISH
FLOOR LEVEL	CEILING HEIGHT

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DATE: 23.09.2021	DATE: 23.09.2021	DATE:23.09.2021	DATE: 23.09.2021	DATE:
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DATE:	DATE:
NAME:	NAME:
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

N/A

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DY. HOD

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CLIENT: **MAHARASHTRA METRO RAIL CORPORATION LTD**

LOCATION: **SHIVAJI NAGAR STATION**

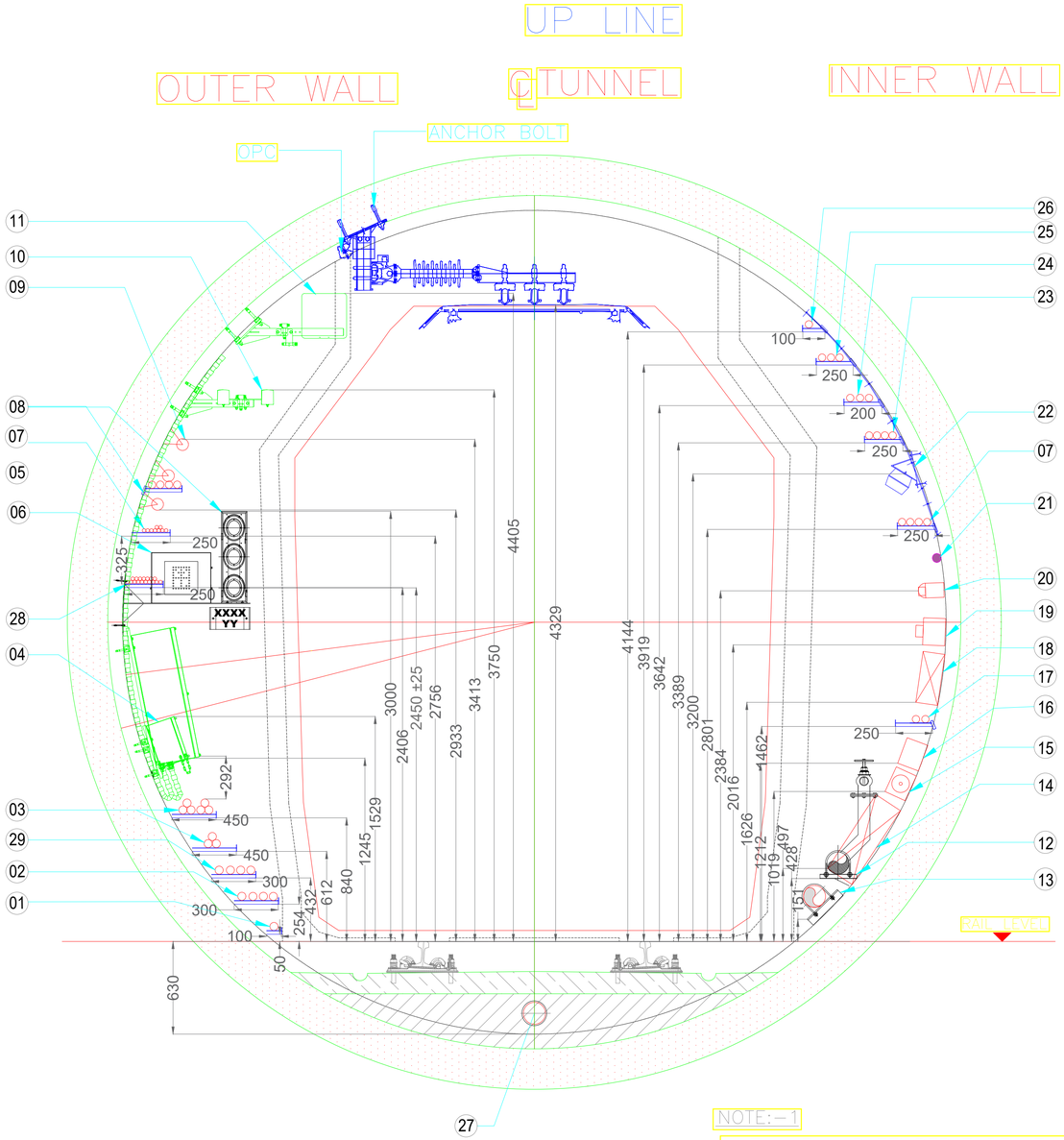
TITLE: **UNDERCROFT LEVEL PLAN (3 OF 3)**

SCALE: 1:100 | DATE: 23.09.2021 | STATUS: GOOD FOR CONSTRUCTION | REVISION NO: B03

DRG NO: P4D02 - ACM - AR - PRM - SJO - UL - DRP - 4003

ARCHITECTURE

plot scale 50mm



S.NO	BRACKET SIZE IN mm	LEVEL IN mm FROM TOP OF RAIL	SERVICES
1	100	50	TUNNEL EARTH WIRE
2	300	254	3.3kV CABLES(55ø)
3	450	612/840	33kV CABLES(55ø)
4	—	1245/1529	LOCATION SIGNAL TERMINATION BOX/JB/TRE BOX
5	250	2756	SIGNAL DATA CABLES
6	—	—	ROUTE INDICATOR
7	250	2801	TVS POWER CABLES/ TVS CONTROL CABLES
8	—	3000	3 ASPECT SIGNAL
9	—	2933/3413	LEAKY CO-AXIAL CABLES
10	—	3750	CBTC
11	—	4405	VTS ANTENA
12	—	428	150MM FIRE MAIN PIPE & FH/NOV BY E&M CONTRACTOR
13	—	151	200MM PUMP DISCHARGE PIPE
14	—	497	JUNCTION BOX (400(W)+600(H)+200(D))
15	—	1019	MANUAL CALL POINT
16	—	1212	POWER SOCKET OUTLET
17	250	1462	TRACK SIDE POWER CABLES
18	—	1626	HELP POINT (350(H)+200(W)+150(D))
19	—	2016	TELECOM PROJECTOR SPEAKER (185+150(D))
20	—	2384	BOX CAMERA (450(L)+100(H)+150(W)
21	—	—	NOTE 1
22	—	3200	TUNNEL LIGHT
23	250	3389	TRACK SIDE LTG/TELECOM POWER CABLE TRAY
24	200	3642	TELECOM DATA CABLE TRAY SIZE 200MM
25	250	3919	COMMUNICATION CABLES BLUE LIGHTING STATION CONTROL & POWER CABLES
26	100	4144	LINEAR HEAT DETECTION CABLES
27	—	—	DRAIN PIPE
28	250	2406	SIGNAL POWER CABLES
29	300	432	25kV CABLES(55ø)

LEGEND	DESCRIPTION
	TUNNEL LIGHT FIXTURE AT EVERY 8 METERS
	POWER SOCKET –AT EVERY 50 METERS
	EMERGENCY TELEPHONE
	FIRE HYDRANT PIPE 150mm DIA WITH VALVE AT EVERY 50 METERS

NOTE:–1

1. TUNNEL AIR TEMPERATURE AT 100 MTS FAR (ON EACH TUNNEL UP AND DOWN) TOTAL: 4 NUMBERS]
2. TUNNEL WALL TEMPERATURE AT 200 MTS (225 MM DEPTH), 150 MTS (50 MM DEPTH) ON EACH TUNNEL, UP AN DOWN]
3. TUNNEL AIR VELOCITY SENSOR AT 175 MTS ON EACH SIDE. (UP AND DOWN, LHS AND RHS)

NOTES:

1. 33KV CABLES ARE RUNNING ON OUTER WALL, AS PER INFORMATION RECEIVED FROM RESPECTIVE CONTRACTOR
2. SIGNALLING CABLES ARE RUNNING ON OUTER WALL, AS PER INFORMATION RECEIVED FROM RESPECTIVE CONTRACTOR
3. THESE DRAWINGS PREPARED BASED ON CONTRACTOR INPUT
4. SHEAR CONNECTORS SHOULD BE POST DRILLED BY THE CIVIL CONTRACT
5. THESE DRAWINGS PREPARED BASED ON CONTRACTOR INPUT
6. CURVE OF THE BRACKET TO BE MAINTAINED AS PER THE TUNNEL ALIGNMENT DRAWING.
7. DISTANCE BETWEEN THE TWO BRACKETS SHOULD BE 1 TO 1.5 MTR BASED ON SITE CONDITION.

NOTES:

THE RESPONSIBILITY OF CONTROL, CHECK & VERIFICATION OF ACCURACY, CORRECTNESS, COMPLETENESS, INTEGRATION & FULL COMPLIANCE OF THE CONTRACT PROVISIONS IN RESPECT OF DESIGN, ANALYSIS AND DRAWINGS RESTS WITH THE DETAILED DESIGN CONSULTANT / DETAILED DESIGN CONSULTANT & CONTRACTOR.
IT IS CERTIFIED THAT THERE IS NO CHANGE IN THIS GFCD FROM THE ALREADY APPROVED CR DWG NO. "……REV……" APPROVED ON DATE ……

DDC / CONTRACTOR				CONTRACTOR
SIGN:	SIGN:	SIGN:	SIGN:	SIGN:
DATE: 03.03.2021	DATE: 03.03.2021	DATE: 03.03.2021	DATE: 03.03.2021	DATE:
NAME: SR	NAME: TSK	NAME: JD	NAME: JD	NAME:
DRAWN BY	DESIGN BY	CHECKED BY	APPROVED BY	ACCEPTED BY

NOT APPLICABLE

AECOM India Private Ltd.

REV NO	DATE	DESCRIPTION	SIGN

THIS DRAWING INCLUDING ITS DESIGN AND DETAILING HAS BEEN **PROOF CHECKED** INDEPENDENTLY AND FOUND SUITABLE FOR THE EXECUTION PURPOSE AND IS RECOMMENDED FOR GFC / NO OBJECTION'.

PROOF CONSULTANT	
SIGN:	SIGN:
DATE:	DATE:
NAME: ---	NAME: ---
REVIEWED BY (STRUCT. ENGG.)	APPROVED BY (TEAM LEADER)

☐ Proof checked & Approved by GC
☐ Being Given No Objection
☐ Issued As Good For Construction.

SIGN:		SIGN:	
DATE:		DATE:	
NAME:	---	NAME:	---
REVIEWED BY		APPROVED BY	

SYSTRA-AECOM-EGIS-RITES
(GENERAL CONSULTANT TO PUNE METRO RAIL PROJECT)

COUNTER SIGNED BY MAHARASHTRA METRO RAIL CORPORATION LTD.

DY. HOD

HOD

PROJECT: PUNE METRO RAIL PROJECT
The Orion Building, 1st Floor, Opposite Don Bosco Center, Near Saint Mira's Girls College, Koregaon Park, Pune - 411001, MH, India

CLIENT: MAHARASHTRA METRO RAIL CORPORATION LTD.

LOCATION: REACH 4

TITLE: TYPICAL TUNNEL BRACKET DETAILS

SCALE: 1:20 | DATE: 03.03.2021 | STATUS: DEFINITIVE DESIGN | REVISION NO: A

DRG NO: P4D02-ACM-TN-PES-PP4-DRP-0001

plot scale 50mm

7. Parent Company Undertaking

THIS UNDERTAKING is issued on the _____ day of _____

BY _____ [whose registered office is at] / [of] _____ ("the Parent Company").

in favour of

Maharashtra Metro Rail Corporation Limited together with its successors and assigns, (the Employer"):

.....

.....

.....

WHEREAS

(A) By a Contract for _____in respect of Pune Metro Rail Project

Contract No: _____/_____ ("the Contract") made between

(1) Maharashtra Metro Rail Corporation Limited (the "Employer")

and

(2) _____ (the "Contractor") the Contractor has agreed to design, execute, complete and remedy any defects in the works ("the Works") upon the terms and conditions contained in the Contract.

(B) Pursuant to the terms of the Contract, the Contractor has agreed to procure the provision of an undertaking in the terms hereof.

(C) The Parent Company is the beneficial owner of ____ % [see Note 1] of the issued share capital of [the Contractor] [see Note 2].

(D) At the request of the Contractor, the Parent Company has agreed to provide this undertaking.

NOW IT IS HEREBY UNDERTAKEN AND AGREED as follows:

1. In consideration of the Employer entering into the Contract with the Contractor, the Parent Company hereby undertakes to the Employer that, without information to the Employer, it will not [and will ensure that none of the companies referred to in Recital (C) will] [see Note 5]:

    a. Sell, transfer, assign or otherwise dispose of or deal with ownership of the whole

or any part of EITHER [the share holding or other interest in the [Contractor] [see Note 3] OR [the share holdings or other interests] [see Note 4] referred to in Recital (C) in any way which will affect the beneficial ownership and control in [the Contractor] [see Note 3] of the Parent Company [and the other companies referred to in Recital (C)] [see Note 5]; and

b. take any action which may result in the Contractor being unable to comply with its obligations or perform in any way its duties under the Contract [or take any action which may result in [the Member forming part of the Contractor] [see Note 3] being unable to comply with its obligations or perform in any way its duties under the [Consortium or other relevant] agreement] [see Note 6]

until such time as the Works shall have been completed, all the Contractor's obligations under the Contract shall have been performed and the Defects Liability Period (as defined in the Contract) for the whole and every part of the Works shall have elapsed and further that it will ensure [that the Member forming part of the Contractor will take all steps necessary to ensure [see Note 6] compliance by the Contractor with the provisions of the Contract.

2. The obligations of the Parent Company under this Undertaking shall remain in full force and effect and shall not be affected or discharged in any way and the Parent Company hereby waives notice of:

a. any suspension of the Works, variation or amendment to the Contract (including without limitation extension of time for performance) or any concession or waiver by the Employer in respect of the Contractor's obligations [and/or the obligations of [_____] [see Note 7]

b. any provision of the Contract being or becoming illegal, invalid, void, voidable or unenforceable;

c. the termination of the Contract or of the employment of the Contractor and/or [_____] [see Note 7] under the Contract for any reason;

d. any forbearance or waiver of any right of action or remedy the Employer may have against the Contractor [and/or [_____]] [see Note 7] or negligence by the Employer in enforcing any such right of action or remedy;

e. any bond, undertaking, security or other guarantee held or obtained by the Employer for any of the obligations of the Contractor [and/or [_____]] [see Note 7] under the Contract or any release or waiver thereof.

3. This Undertaking shall extend to any variation of or amendment to the Contract and to any agreement supplemental thereto agreed between the Employer and the Contractor [and/or [_____]] [see Note 7] and for the avoidance of doubt the Parent Company hereby authorises the Employer and the Contractor [and/or [_____]] [see Note 7] to make any such amendment, variation or supplemental agreement.

4. All documents arising out of or in connection with this Undertaking shall be served:

a. upon the Employer, at _____ marked for the attention of _____

b. upon the Parent Company, at _____

5. The Employer and the Parent Company may change their respective nominated addresses for service of documents to another address but only by prior written notice to each other. All demands and notices must be in writing.

6. This Undertaking shall be governed by and construed according to the laws for the time being in force in India and the Parent Company agrees to submit to the exclusive jurisdiction of the courts at Pune, Maharashtra, India.

IN WITNESS where of this Undertaking has been executed as a deed on the date first before written.

Name:
Designation:
Date of Board resolution authorizing executant to execute this undertaking
Place:

Notes:
(For preparation of but not for inclusion in the engrossment of this Undertaking)

1. If the Parent Company is not the immediate parent company, the chain of ownership must be recited, identifying each company in the chain and the shareholdings or other interests in each subsidiary.

2. If the Contractor is a Consortium, that fact and the Consortium or other relevant agreement must be recited. In such case, insert the name of the Members of the Consortium in respect of which the parent company undertaking is being given. In such a case, the parent company of each of the Members is required to give the undertaking.

3. If Note 2 applies, refer to the Member relating to that Parent Company (which is giving this undertaking) and not the Contractor.

4. If Note 1 applies, use this alternative.

5. If Note 1 applies, add this provision.

6. If Note 2 applies, add this provision.

7. If Note 2 applies, add this provision and insert the name of the Member.

8. The notarized copy of the board resolution of the Parent Company must also accompany this Undertaking. In case the Parent Company is a foreign entity, then such board resolution should be notarized by a notary in its home country followed by the consularisation by the Indian Embassy there, or apostilised as per Hague Convention, as the case may be.

8. Parent Company Guarantee

THIS GUARANTEE is made the _____ day of _____

BY _____ whose registered office is at _____ [and _____ whose registered office is at _____] ("the Guarantor").

To Maharashtra Metro Rail Corporation Limited together with its successors and assigns, "the Employer") of:

.....

.....

.....

WHEREAS

(A) By a Contract for _____of Pune Metro Rail Project

Contract No: _____ ("the Contract") made between

(1) Maharashtra Metro Rail Corporation Limited (the “Employer”)

and

(2) _____ (the “Contractor") the Contractor has agreed to design, execute, complete and remedy any defects in the works ("the Works") upon the terms and conditions contained in the Contract.

(B) Pursuant to the terms of the Contract, the Contractor has agreed to procure the provision of a guarantee in the terms hereof. [see Note 1]

(C) At the request of the Contractor, the Guarantor has agreed to guarantee performance of the Contract by the [Contractor] [see Note 2] as set out herein.

IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the Employer entering into the Contract with the Contractor, the Guarantor irrevocably and unconditionally guarantees to the Employer as a primary obligation and not as a surety due performance by the [Contractor] [see Note 2] of all of its obligations and liabilities under and in accordance with the Contract save that nothing herein shall be construed as imposing greater obligations or liabilities on the Guarantor than are imposed on the [Contractor] [see Note 2] in the Contract.

2. The obligations of the Guarantor under this Guarantee shall remain in full force and effect and shall not be affected or discharged in any way by and the Guarantor hereby waives notice of:

a. any suspension of the Works, variation to or amendment of the Contract (including without limitation extension of time for performance) or any concession or waiver by the Employer in respect of the Contractor's obligations [and/or the obligations of _____] [see Note 3] under the Contract;

b. any provision of the Contract being or becoming illegal, invalid, void, voidable or unenforceable;

c. the termination of the Contract or of the engagement of the Contractor [and / or _____] [see Note 3] under the Contract for any reason;

d. any forbearance or waiver of any right of action or remedy the Employer may have against the Contractor [and / or _____] [see Note 3] or negligence by the Employer in enforcing any such right of action or remedy;

e. any bond, undertaking, security or other guarantee held or obtained by the Employer for any of the obligations of the Contractor [and / or _____] [see Note 3] under the Contract or any release or waiver thereof.

3. This Guarantee shall extend to any variation of or amendment to the Contract and to any agreement supplemental thereto agreed between the Employer and the Contractor [and/or ____] [see Note 3] and for the avoidance of doubt the Guarantor hereby authorises the Employer and the Contractor [and/or _____] [see Note 3] to make any such amendment, variation or supplemental agreement.

4. This Guarantee is a continuing guarantee and accordingly shall cover all of the obligations and liabilities of the [Contractor] [see Note 2] under the Contract and remain in full force and effect until all the said obligations and liabilities of the Contractor shall have been carried out, completed and discharged in accordance with the Contract. This Guarantee is in addition to any other security which the Employer may at any time hold and may be enforced without first having recourse to any such security or taking any steps or proceedings against the Contractor.

5. Until expiry of the Defects Liability Period (as defined in the Contract) for the whole and every part of the Works, the Guarantor shall not on any ground whatsoever make any claim or threaten to make any claim whether by proceedings or otherwise against the Contractor [and/or _____] [see Note 3] for the recovery of any sum paid by the Guarantor pursuant to this Guarantee. Any such claim shall be subordinate to any claims (contingent or otherwise) which the Employer may have against the Contractor [and/or _____] [see Note 3] arising out of or in connection with the Contract until such time as such claims shall be satisfied by the Contractor [and/or _____] [see Note 3] or the Guarantor as the case may be. To that intent the Guarantor shall not claim or have the benefit of any security which the Employer holds or may hold for any monies or liabilities due or incurred by the Contractor [and/or _____] [see Note 3] to the Employer and, in case the Guarantor receives any sum from the Contractor [and/or _____] [see Note 3] in respect of any payment by the Guarantor hereunder, the Guarantor shall hold such sum in trust for the Employer for so long as any sum is payable (contingently or otherwise) under this Guarantee.

6. The Employer shall be entitled to assign the benefit of this Guarantee at any time without the consent of the Guarantor or the [Contractor] [see Note 2] being required.

7. All documents arising out of or in connection with this Guarantee shall be served:

a. upon the Employer, at _____ marked for the attention of _____

b. upon the Guarantor, at _____ India [see Note 5]

8. The Employer and the Guarantor may change their respective nominated addresses for service of documents to another address but only by prior written notice to each other. All demands and notices must be in writing.

9. This Guarantee shall be governed by and construed according to the laws for the time being in force in India and the Guarantor agrees to submit to the exclusive jurisdiction of the courts at Pune, Maharashtra, India.

IN WITNESS whereof this Guarantee has been executed as a deed on the date first before written

Name:
Designation:
Date of Board resolution authorizing executant to execute this undertaking
Place:

Notes:
(For preparation of but not inclusion in the engrossment of this Guarantee)

1. If the Contractor is a Consortium, that fact and the Consortium or other relevant agreement and the relationship of the Guarantor to the concerned Members forming part of the Contractor must be recited.

2. If Note 1 applies, replace the word "Contractor" with name of the concerned Member of the Consortium being guaranteed.

3. If Note 1 applies, add additional wording and insert the name the concerned Member of the Consortium being guaranteed.

4. The notarized copy of the board resolution of the Guarantor must also accompany this Guarantee. In case the Guarantor is a foreign entity, then such board resolution should be notarized by a notary in its home country followed by the consularisation by the Indian Embassy there, or apostilised as per Hague Convention, as the case may be.

5. The address for service shall be in India.

6.8. **License Fee**: The Selected Bidder shall pay to Maha-Metro as per the LOA issued and executed Agreement, quarterly in advance, all payments requested as per rates indicated in the table.

S. No.	Item	Rate
A. Monthly Recurring Charges: Prevailing charges shall be increased @ 10% per annum on compounding basis after completion of every year of License Period		
1.	License Fee for Space (License Fee for space per station in GSM/CDMA room [approx... 10 sqm in area] at each metro station as per Annexure-1) [In case, if handed over space is more than 15% (1.15 times) of 10 sqm, then license Fee will be increased on pro rata basis] If additional space is required for utilities/microwave tower, then license Fee will be increased on pro rata basis.	The rate to be filled online as per Annexure – 15.
2.	License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater and Maintenance charges for Space including Supervision Charges for tunnel entry. (Entry in tunnel will be restricted to availability of power block in the section.)	Rs. 22,100/- per station/month + GST
B	**Variable Charges: Third Party Dependent (MSEDCL Power)**	
3	Electrical Installation Charges and Energy consumption charges as per installed Energy Meter.	As per Annexure 10.5 and 10.6
4	Air-Conditioning Charges (Considering 1 number of FCU working and 1 FCU standby.) **Note:-** In case AC is not utilized, the recurring charges shall be waived off.	{[Total TR installed in GSM/CDMA room X 0.75 (Working TR) X 1.494] KVA X 24 hrs X (Number of Days in particular month) X (Unit charges as per concerned DISCOM)}
C	**One Time Lump-Sum Charges: Non-Refundable**	
5	One-time fixed charges for installation of FCU with all associated item **Note:-** In case AC is not required, these charges shall not be levied.	Rs. 1,14,000/- per TR + GST
6	Clamp of LCX cable in Tunnels	Rs 475/- per running meter + GST
D	**Deposits:**	
7	Refundable Electrical Consumption Deposit (Interest Free)	Rs. 5,000/- per KVA per station
8	Interest Free Security Deposit/ Performance Security	Equivalent to 12 months License Fee (License Fee shall be the sum of Items at Sr No 01 to 04 under the head "A: Monthly Recurring

S. No.	Item	Rate
		Charges" of this table) applicable for final year of License agreement for Licensed premises.
E	**Dark Fiber Between Stations**	If dark fiber is required inside the tunnel to create backhaul connectivity, then the same may be allowed with all cost to be borne by the bidder.

Note: Bidder is required to quote price against A(1) in the financial bid as per Annexure-15. Work shall be awarded to the Bidder quoting highest sum (H1) of all 5 stations.

6. **License Fee**:

6.1 The Licensee shall pay to Maha-Metro for Five (5) stations as per LOA and Agreement, quarterly in advance, all payments requested as per details and rates indicated in the table below-

S. No.	Item	Rate
A. Monthly Recurring Charges: Prevailing charges shall be increased @ 10% per annum on compounding basis after completion of every year of License Period		
1.	License Fee for Space (License Fee for space per station in GSM/CDMA room [approx... 10 sqm in area] at each metro station as per Annexure-1) [In case, if handed over space is more than 15% (1.15 times) of 10 sqm, then license Fee will be increased on pro rata basis] If additional space is required for utilities/microwave tower, then license Fee will be increased on pro rata basis.	Rs.----------per station/ month (Accepted rates of Selected Bidder) + GST
2.	License Fee for Spaces on Cable Tray (Station & Tunnel) and for Indoor Antenna/Repeater and Maintenance charges for Space including Supervision Charges for tunnel entry. (Entry in tunnel will be restricted to availability of power block in the section.)	Rs. 22,100/- per station/month + GST
B	**Variable Charges: Third Party Dependent (MSEDCL Power)**	
3	Electrical Installation Charges and Energy consumption charges as per installed Energy Meter.	As per Annexure 10.5 and 10.6
4	Air-Conditioning Charges (Considering 1 number of FCU working and 1 FCU standby.) **Note:-** In case AC is not utilized, the recurring charges shall be waived off.	{[Total TR installed in GSM/CDMA room X 0.75 (Working TR) X 1.494] KVA X 24 hrs X (Number of Days in particular month) X (Unit charges as per concerned DISCOM)}
C	**One Time Lump-Sum Charges: Non-Refundable**	
5	One-time fixed charges for installation of FCU with all associated item **Note:-** In case AC is not required, these charges shall not be levied.	Rs. 1,14,000/- per TR + GST
6	Clamp of LCX cable in Tunnels	Rs. 475/- per running meter + GST
D	**Deposits:**	
7	Refundable Electrical Consumption Deposit (Interest Free)	Rs. 5,000/- per KVA per station

S. No.	Item	Rate
8	Interest Free Security Deposit/ Performance Security	Equivalent to 12 months License Fee (License Fee shall be the sum of Items at Sr No 01 to 04 under the head "A: Monthly Recurring Charges" of this table) applicable for final year of License agreement for Licensed premises.
E	**Dark Fiber Between Stations**	If dark fiber is required inside the tunnel to create backhaul connectivity, then the same may be allowed with all cost to be borne by the bidder.

6.19 Stages of Activity:

SN	Activity / Key Date	Stage of Activity	Time Period
1	A1	Letter of Acceptance	-
2	A2	Submission of Interest Free Security Deposit (IFSD) / Performance Security (PS/PBG) - 100% of IFSD/PS/PBG in the form of Bank Guarantee (BG)/Fixed Deposit Receipt (FDR)/DD/PO to Maha-Metro by the Selected Bidder	Within 30 days from A1
3	A3	Intimation of date of handing over of first station	As per site availability
4	A4	Payment of First Quarterly License Fee/Advance License Fee by Licensee to Maha-Metro	Within 7 days from A3
5	A5	Handing over of stations (or first location) to Selected Bidder	-
6	A6	Signing of License Agreement after handing over of the first location	Within 45 days from A5
7	A7	Payment of one time Lump-Sum Charges for the handed over stations and section along with the License Fee in a single installment (Non-Refundable)	Along with A4
8	KD1	Commencement of Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) for public/passengers of respective location/station	Within 45 days of handing over of respective location / station

Note:

1. *Duration of License period - 09 years from the date of signing of License Agreement subject to Lock-in period of 2 years.*
2. *Commencement of License Fee – Licensee fee shall commence immediately from date of Signing of License Agreement.*
3. *If KD1 is not achieved, then Penalty shall be levied at 1% of the license fee quoted per station per month for each day of delay extending beyond 1 month before proposed ROD (Revenue Operations Date).*

10. Stages of Activity:

SN	Activity / Key Date	Stage of Activity	Time Period
1	A1	Letter of Acceptance	-
2	A2	Submission of Interest Free Security Deposit (IFSD) / Performance Security (PS/PBG) - 100% of IFSD/PS/PBG in the form of Bank Guarantee (BG)/Fixed Deposit Receipt (FDR)/DD/PO to Maha-Metro by the Selected Bidder	Within 30 days from A1
3	A3	Intimation of date of handing over of first station	As per site availability
4	A4	Payment of First Quarterly License Fee/Advance License Fee by Licensee to Maha-Metro	Within 7 days from A3
5	A5	Handing over of stations (or first location) to Selected Bidder	-
6	A6	Signing of License Agreement after handing over of the first location	Within 45 days from A5
7	A7	Payment of one time Lump-Sum Charges for the handed over stations and section along with the License Fee in a single installment (Non-Refundable)	Along with A4
8	KD1	Commencement of Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) for public/passengers of respective location/station	Within 45 days of handing over of respective location / station

Note:

1. *Duration of License period - 09 years from the date of signing of License Agreement subject to Lock-in period of 2 years.*
2. *Commencement of License Fee – Licensee fee shall commence immediately from date of Signing of License Agreement.*
3. *If KD1 is not achieved, then Penalty shall be levied at 1% of the license fee quoted per station per month for each day of delay extending beyond 1 month before proposed ROD (Revenue Operations Date).*

MAHARASHTRA METRO RAIL CORPORATION LIMITED

Pune Metro Rail Project

Joint Venture of Govt. of India & Govt. of Maharashtra

CIN: U60100MH2015SGC262054

Date: 13 Jul 2022

CORRIGENDUM-V

Tender No: **P1TL-02/2022 dated 11 June 2022**

Name of Work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Reference: Further to Tender Documents dated 11 June 2022, Corrigendum-I dated 17 June 2022, Corrigendum-II dated 20 June 2022, Corrigendum-III dated 02 July 2022 and Corrigendum -IV dated 07 July 2022.

Extension of tender submission date and opening date as under:

Activity (Event)	As per Corrigendum-III	Revised
Date & Time of submission of tender	Online submission up-till 15.00 Hrs on **16/07/2022** at Maha-Metro's e-tender portal.	Online submission up-till 15.00 Hrs on **28/07/2022** at Maha-Metro's e-tender portal.
Date and Time of opening of tender	On **16/07/2022** at 15.30 Hrs or as decided by Maha-Metro at Procurement Section Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001	On **28/07/2022** at 15.30 Hrs or as decided by Maha-Metro at Procurement Section Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001

ED (Procurement & Contracts),
Pune Metro Rail Project,
Maharashtra Metro Rail Corporation Limited.

MAHARASHTRA METRO RAIL CORPORATION LIMITED

Pune Metro Rail Project

Joint Venture of Govt. of India & Govt. of Maharashtra

CIN: U60100MH2015SGC262054

Date: 27 Jul 2022

CORRIGENDUM-VI

Tender No.: P1TL-02/2022 dated 11 Jun 2022

Name of Work: Licensing of Space for In-building Solutions (IBS) for providing Shared Mobile (Cellular) Coverage (2G/3G/4G/5G) in Tunnels Section and Underground Stations of Shivajinagar, Civil Court, Budhwar Peth, Mandai and Swargate of North -South Corridor of Pune Metro Rail Project (PMRP).

Reference: Further to **Tender Documents** dated 11 Jun 2022, **Corrigendum I** dated 17 Jun 2022, **Corrigendum II** dated 20 Jun 2022, **Corrigendum III** dated 02 Jul 2022, **Corrigendum IV** dated 7 Jul 2022 and **Corrigendum V** dated 13 Jul 2022

Extension of bid submission date and opening date is as under:

Activity (Event)	As per Corrigendum-V	Revised
Date & Time of submission of Tender:	Online submission up-till 15.00 Hrs on **28/07/2022** at Maha-Metro's e-tender portal.	Online submission up-till 15.00 Hrs on **04/08/2022** at Maha-Metro's e-tender portal.
Date & Time of Opening of Tender:	On **28/07/2022** at 15.30 Hrs or as decided by Maha-Metro at Procurement Section Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001	On **04/08/2022** at 15.30 Hrs or as decided by Maha-Metro at Procurement Section, First Floor, The Orion, Arjun Mansukhani Marg, Opp. Don Bosco youth Centre, Koregaon Park Road, Pune 411 001

ED (Procurement & Contracts),
Pune Metro Rail Project,
Maharashtra Metro Rail Corporation Limited.