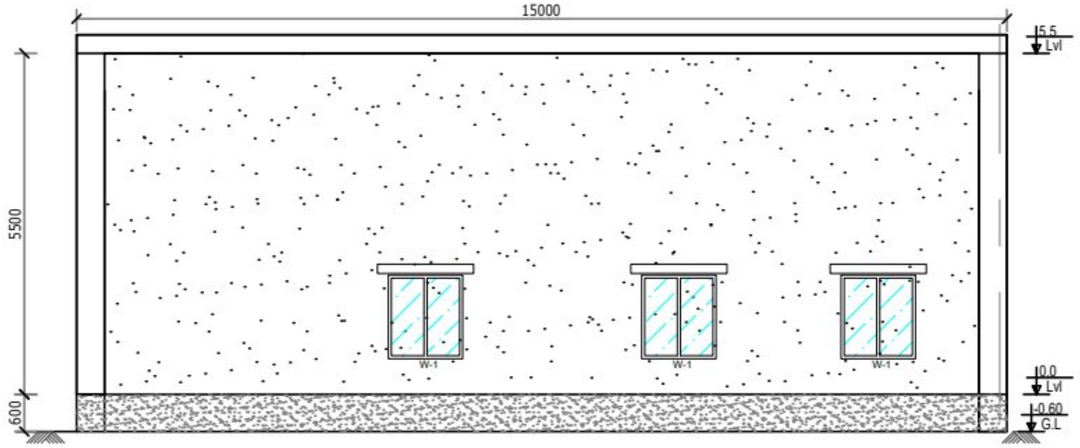
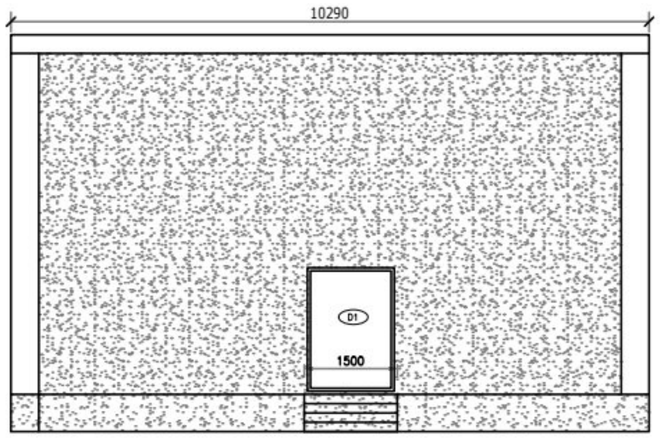
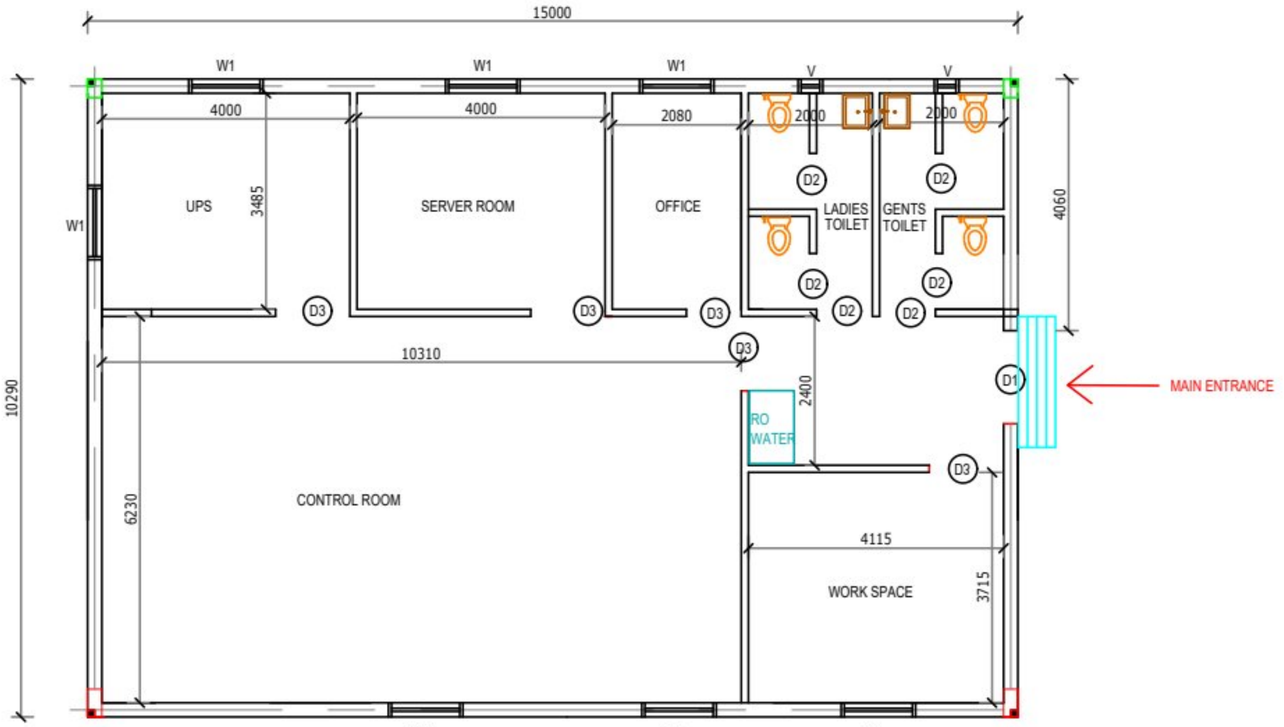



SIDE ELEVATION




FRONT ELEVATION




ATMS COMMAND & CONTROL CENTER LAYOUT PLAN

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
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| | | |

DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
Flat 411, Sai Sukhdham, Road No 1, Miyapur, Hyderabad- 500049.

CONCESSIONAIRE:
NHIT EASTERN PROJECTS PVT.LTD.
Unit No. 325, 3rd Floor, D-21 Corporate Park, Sector 21, Dawarka, New Delhi - 110077

INDEPENDENT ENGINEER:
Marc Technocrats Limited in JV with Bloom Companies LLC in Association with Asian Geotech Research Services

CLIENT:
NATIONAL HIGHWAYS AUTHORITY OF INDIA
G-5 & 6, Sector-10, Dwarka, New Delhi – 110 075.

NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: PLAN

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | NHAI/STR/AD/1001 | R0 |

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| OPENING SCHEDULE | |
|---|---|
| DOOR D1 | 1.5m X 2.1m |
| DOOR D2 | 0.9m X 2.1m |
| DOOR D3 | 1.2m X 2.1m |
| WINDOW W1 | 1.2m X 1.2m |
| VENTILATOR V | 0.6m X 0.45m |

NOTE :-

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRES.
   DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. ALL MATERIALS, WORKMANSHIP, AND SPECIFICATIONS SHALL BE FOLLOWED AS PER RELEVANT I.S. CODES AND CONTRACT GUIDELINES.
3. RCC WORK OF M20 SHALL BE USED IN FOOTING, COLUMNS, BEAMS AND SLABS. AND ALL RCC WORK SHALL BE CARRIED OUT AS PER IS: 456-2000
4. ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY CONFIRMING TO LATEST IS-1786. AND GRADE OF REINFORCEMENT STEEL SHALL BE FE500.
5. ALL BRICK SHALL BE SOUND, HARD, WELL BURNT WITH UNIFORM SIZE AND SHAPE AND THE MINIMUM CRUSHING STRENGTH SHALL BE 75kg/cm
6. THE MORTAR USED SHALL CONFIRM TO IS: 2250. MORTAR MIX IN 230thk. WALLS SHALL BE IN 1:6 C.M
7. MORTAR MIX IN 115thk. WALLS SHALL BE IN 1:4 C.M WITH 2 BARS OF 6M DIA IN EVERY FOURTH LAYER AND CONTINUED INTO THE INTERSECTING WALLS. COURSE SHALL BE BUILT AFTER THE FORMWORK OF THE SLAB OR BEAM, IS REMOVED.
9. INTERNAL PLASTERING 12MM THICK IN TWO COATS USING SCREENED SAND WITH BASE COAT OF 8MM THICK IN CM (1:6) AND TOP COAT OF 4MM THICK IN CM (1:4) WITH DUBARA SPONGE FINISHING
10. EXTERNAL PLASTERING 20MM THICK IN TWO COATS USING SCREENED SAND WITH BASE COAT OF 16MM THICK IN CM(1:6) AND TOP COAT OF 4MM THICK IN CM(1:4) WITH DUBARA SPONGE FINISHING
11. 6MM PLASTER OF MIX 1:4 (1 CEMENT 2 COARSE SAND 2 FINE SAND) SHALL BE APPLIED TO THE CEILING.
12. 40MM THICK DAMP PROOF COURSE SHALL BE PROVIDED AND LAID WITH CEMENT CONCRETE OF PROPORTION 1:2:4 (1 CEMENT 2 COARSE SAND 4 GRADED STONE AGGREGATE OF 12.5MM NORMAL SIZE)
13. ROOF TOP SHALL BE FINISHED WITH 1:6 COARSE SAND AND CEMENT SLURRY WITH WATER PROOFING CHEMICAL.
14. WALL PAINT :- DISTEMPERING SHALL BE DONE WITH OIL BOUND WASHABLE DISTEMPER OVER INTERNAL WALLS AND SNOWCEM OVER EXTERNAL WALLS
15. WOOD PAINTING SHALL BE DONE WITH PINK OR GREY PRIMER WITH 2 COATS ENAMEL PAINT
16. MS WORK PAINTING SHALL BE DONE WITH PRIMER WITH 2 COATS ENAMEL PAINT
17. 4MM THICK GLASS PAN SHALL BE SUPPLIED AND FIXED IN Z SECTION WINDOW AND VENTILATOR.
18. FLOORING WITH VITRIFIED TILES APPROVED QUALITY OF APPROVED SIZE 600 X 600 MM OR EQUIVALENT AND THICKNESS BETWEEN 8 TO 10MM FOR ALL ROOMS AND ANTI SKID TILES FOR TOILETS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER-IN -CHARGE,
19. DOOR FRAME SHALL BE TEAK WOOD OR EQUIVALENT WITH 30MM THICK FLUSH DOOR SHALL PROVIDED INCLUDING ALL ACCESSORIES ISI MARKED STAINLESS STEEL, AND HINGES WITH NECESSARY SCREWS AND ALUMINUM FITTINGS.
20. WINDOWS AND VENTILATORS WITH ALL ACCESSORIES SHALL BE OF UPVC OR APPROVED MAKE AND QUALITY AS DIRECTED BY ENGINEER-IN -CHARGE,
21. 30MM THICK FLUSH DOOR SHALL INCLUDE ISI MARKED STAINLESS STEEL, AND HINGES WITH NECESSARY SCREWS AND ALUMINUM FITTINGS.
22. M S WORK (DOOR/WINDOW/VENTILATOR) SHALL BE PRODDED AND FIXED WITH MS Z SECTION SINGLE SHUTTER WINDOW WITH GRILL.
23. WIRING FOR LIGHT POINT/FAN POINT/EXHAUST FAN POINT/CALL BELL POINT SHALL BE DONE WITH 1.5 SQMM PVC INSULATED COPPER CORE CABLE IN SURFACE /RECESSED PVC CONDUIT WITH PLAN SWITCH SUITABLE SIZE GI BOX AND EARTHING OF THE POINT SHALL BE DONE WITH SHALL BE DONE WITH1.5 SQ. MM PVC INSULTED COPPER CONDUCTOR SINGLE CORE CABLE ETC.AS REQUIRED FOR HAVELLS WIRE AND SWITCHES.
24. WIRING FOR POWER POINT SHALL BE DONE WITH 2X4 SQUARE MM EARTH WIRE.
25. WATER SUPPLY AND SANITARY ITEMS SHALL BE PROVIDED AS PER APPROVED QUALITY AND AS DIRECTED BY ENC.

| REV. | DESCRIPTION OF REVISIONS | DATE |
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DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
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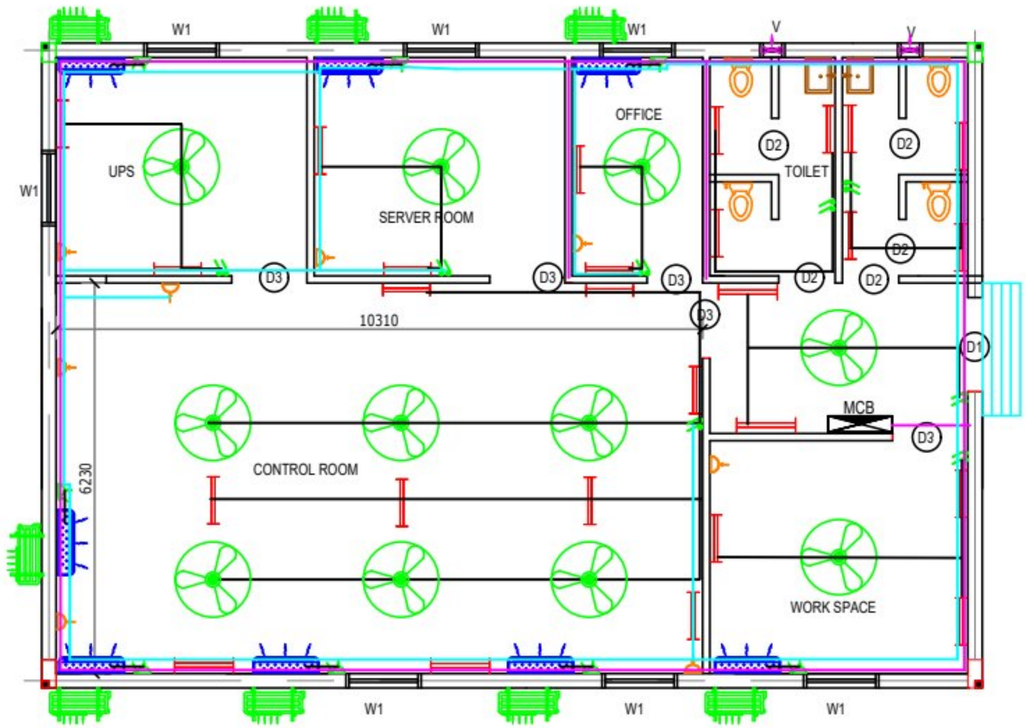
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

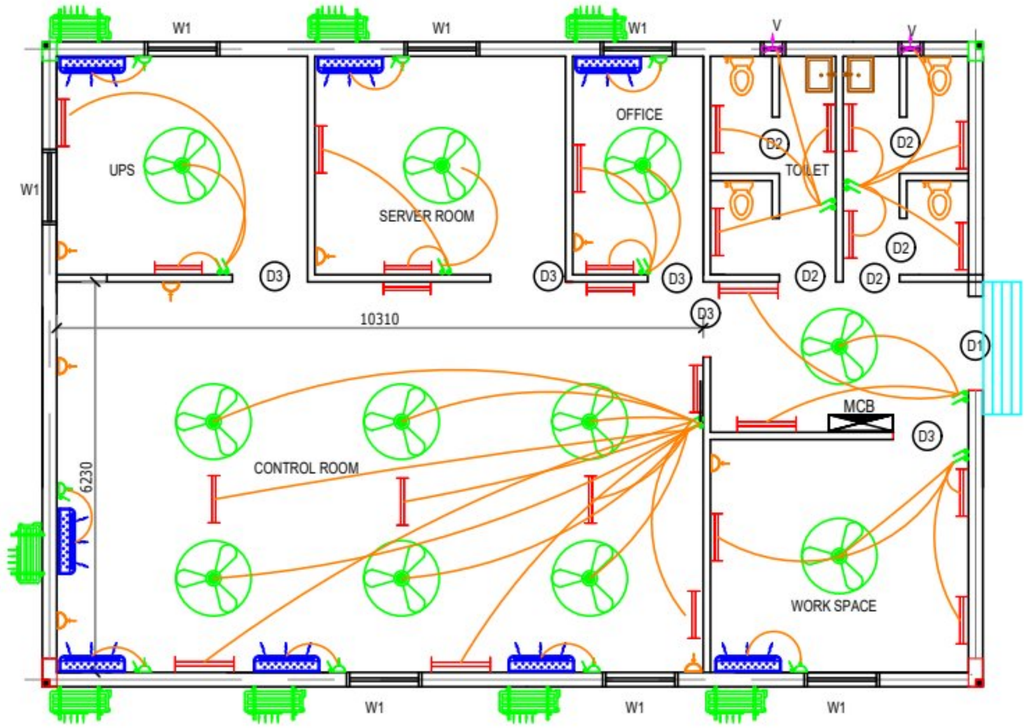
DETAILS: PLAN

| DATE: | SCALE: | DRAWING NO.: | REV. |
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ATMS COMMAND & CONTROL CENTER LAYOUT PLAN
ELECTRICAL AND CONDUIT LAYOUT




ATMS COMMAND & CONTROL CENTER LAYOUT PLAN
ELECTRICAL WIRING LAYOUT

| S.NO | SYMBOL | DESCRIPTION | HEIGHT |
|---|---|---|---|
| 1. | TB | 1X40W T8 BOX TYPE FLU. FT. IN QUARTER | 2100 MM |
| 2. | L | 1X9 W CFL BULKHEAD FT. | 2100 MM |
| 3. | F | 1200 MM SWEEP CEILING FAN | CEILING |
| 4. | | EXHAUST FAN | VENT. |
| 5. | | 16A PLUG POINT ON SWITCH BOARD. | 1500 MM |
| 6. | | SWITCH | 1500 MM |
| 7. | | 3X5A COMPUTER UPS POWER POINT | 1200 MM |
| 8. | | MCB DB | 2700 MM |
| 9. | | AC INDOOR UNIT | 2400 MM |
| 10. | | AC OUTDOOR UNIT | 2400 MM |

LEGEND:

| S.NO | SYMBOL | DESCRIPTION |
|---|---|---|
| 1. | | 25MM PVC CONDUIT FOR POINT WIRING |
| 2. | | 25MM PVC CONDUIT FOR CIRCUIT WIRING |
| 3. | | 25MM PVC CONDUIT FOR POWER WIRING |

NOTES:-

1. FOR POINT & CKT. WIRING ISI MARK PVC CONDUIT & ACCESSORIES SHALL BE USED. THE PVC CONDUIT SHALL BE OF 1.6MM WALL THK. PREFERABLY MAKES ARE PRECESION/DIMOND.
2. FOR POINT & CKT. WIRING ISI MARK PVC INSULATED STANDARD COPPER WIRE SHALL BE USED. PREFERABLY MAKES OF FINOLEX/CONA/ATLAS.
3. FOR EARTHING OF LIGHT & FAN POINT ISI MARK 1.0SQ. MM PVC INSULATED COPPER WIRE OF GREEN COLOUR SHALL BE USED.
4. FOR EARTHING THE 3RD PIN OF 5 AMP & 15 AMP POWER PLUG POINTS 2.5 SQ. MM/4 SQ. MM BARE COPPER WIRE SHALL BE USED.
5. FOR PIANO TYPE SWITCHES AND ACCESSORIES BEARING ISI MARKINGSHALL BE USED FOR CONTROLLING LIGHT/ FAN POINTS. THE THREE PIN 5 AMP & 6 PIN, 5 AMP EARTHING THE 3RD PIN OF 5 AMP & 15 AMP POWER PLUG POINTS. 2.5 SQ.MM/4 SQ. MM BARE COPPER WIRE SHALL BE USED. 15 AMP SOCKET OUT SHALL BE WITH PIANOTYPE SWITCHES & HAVING ISI MARKING. THE PREFERABLE MAKES ARE ANCHOR/ LEADER.
6. THE 3PIN, 5 AMPS & 6 PIN, 5 AMPS/15 AMPS SOCKET OUTLETS & 5 AMPS/15AMPS SWITCHES SHALL BE IN SEPARATE UNIT.
7. SUITABLE SIZES OF M.S. BOX SHALL BE USED FOR HOUSING LIGHT & FAN SWITCH BOARDS & ALSO FOR THE 3 PIN, 5 AMPS & 6 PIN, 5/15 AMPS SOCKET OUTLETS.
8. THE LOCATIONS OF LIGHTS & FANS AS MARKED ON THE DRAWING ARE TENTATIVE. ANY CHANGES IF REQUIRED, THERE IN ACCORDING TO THE SIDE CONDITIONSTHEN SAME SHALL BE FOLLOWED DURING EXECUTION OF WORK AFTER HAVING APPROVAL FROM ELECT. CONSULTANT.
9. ALL THE SWITCHBOARDS FOR LIGHT & FANS SHALL BE AT A HEIGHT 1500 MM FROM FINISHED FLOOR LEVEL.
10. ALL THE POWER OUTLETS OF 6 PIN 5/15 AMPS SHALL BE PROVIDED AT A HEIGHT OF1500 MM FROM FINISHED FLOOR LEVEL UNTIL & UNLESS SPECIFIED OTHERWISE.
11. THROUGH ONE NUMBER 25MM DIA. PVC. CONDUIT MAXIMUM 3 NOS. CKT. FOR LIGHTING CAN BE DRAWN.WHERE AS IN CASE OF POWER CKT. ONLY 2 NOS. 2X 4 SQ.MM CKT. CAN BE DRAWN ALONG WITH EARTH WIRE AS REQUIRED.

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

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CLIENT:
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G-5 & 6, Sector-10, Dwarka, New Delhi – 110 075.

NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

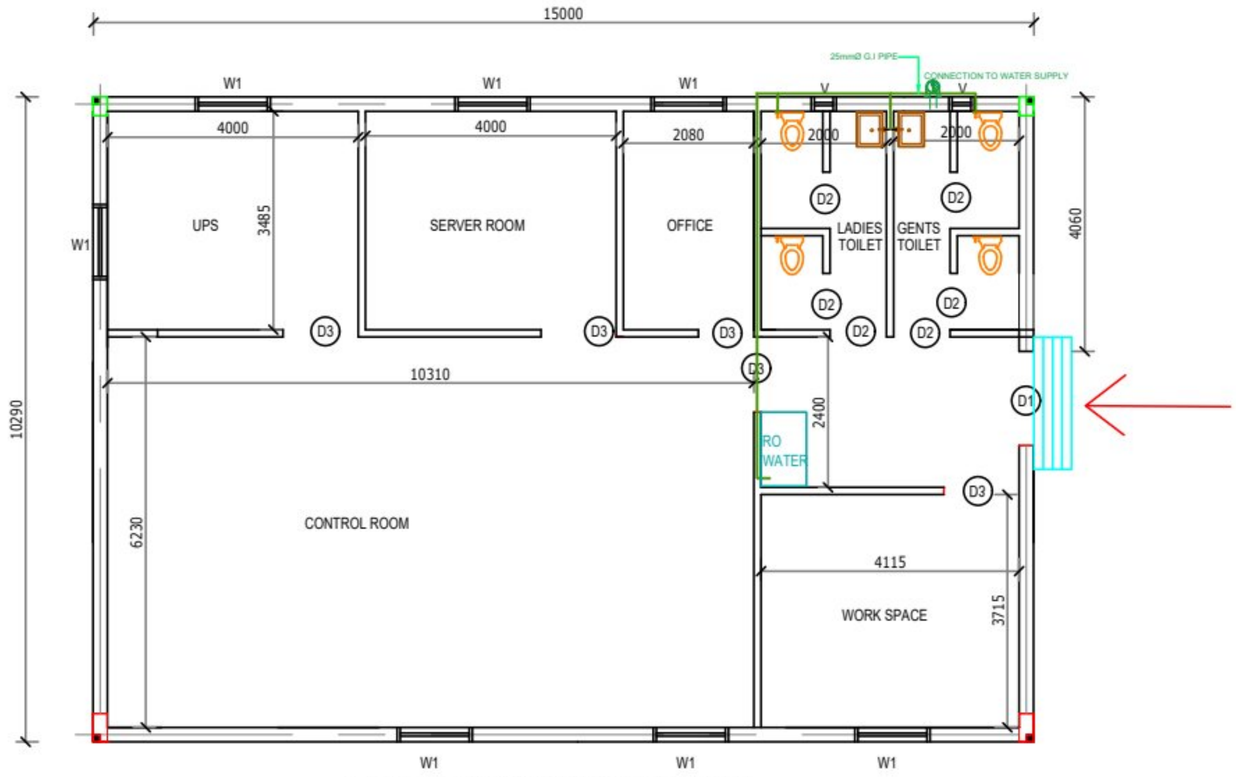
TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: ELECTRICAL LAYOUT PLAN

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| SEPT 2026 | AS SHOWN ABOVE | NHAI/STR/AD/1003 | R0 |

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# WATER SUPPLY LAYOUT




ATMS COMMAND & CONTROL CENTER LAYOUT PLAN

## LEGEND : -

| Symbol | Description |
|---|---|
| | WATER SUPPLYPIPE 38MM Ø |
| | WATER SUPPLY PIPE 25MM Ø |
| | WATER METER |

## NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.
2. ALL MATERIALS, WORKMANSHIP, AND SPECIFICATIONS SHALL BE FOLLOWED AS PER RELEVANT I.S. CODES AND CONTRACT GUIDELINES.
3. ALL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCH./STR./ELEC. AND OTHER DRAWINGS
4. IN CASE OF ANY DISCREPANCIES, THE SAME SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER IN CHARGE.

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
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DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
Flat 411, Sai Sukhdham, Road No 1,
Miyapur, Hyderabad- 500049.

CONCESSIONAIRE:
NHIT EASTERN PROJECTS PVT.LTD.
Unit No. 325, 3rd Floor, D-21 Corporate Park,
Sector 21, Dawarka, New Delhi - 110077

INDEPENDENT ENGINEER:
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G-5 & 6, Sector-10, Dwarka, New Delhi – 110 075.

NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

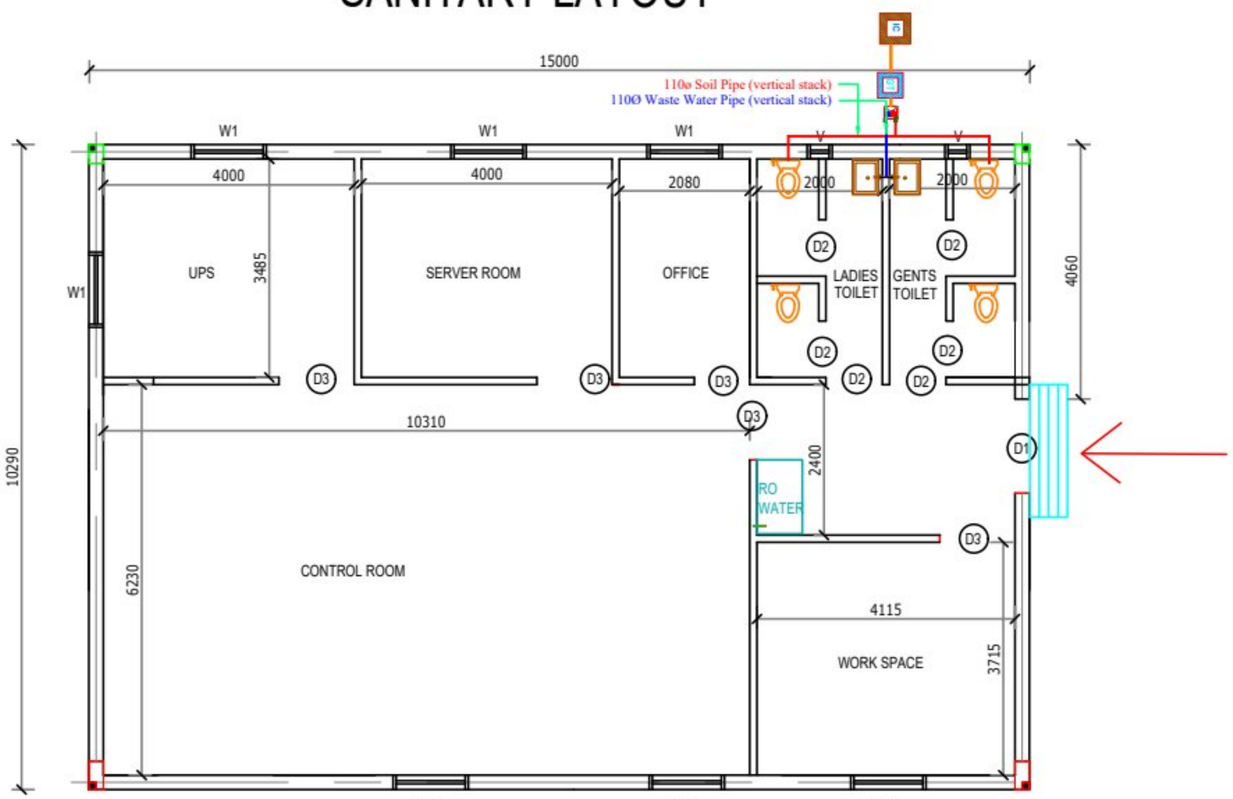
TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: WATER SUPPLY LAYOUT PLAN

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | NHAI/STR/AD/1004 | R0 |

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# SANITARY LAYOUT




ATMS COMMAND & CONTROL CENTER LAYOUT PLAN

## LEGEND : -

| Symbol | Description |
|---|---|
| | 110Ø SOIL PIPE (VERTICAL STACK) |
| | 110Ø Waste Water |
| | 110Ø Soil Pipe |
| | 110Ø WASTE WATER PIPE |
| GT | GallyTrap |
| IC | INSPECTION CHAMBER |

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.
2. ALL MATERIALS, WORKMANSHIP, AND SPECIFICATIONS SHALL BE FOLLOWED AS PER RELEVANT I.S. CODES AND CONTRACT GUIDELINES.
3. ALL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCH./STR./ELEC. AND OTHER DRAWINGS
4. IN CASE OF ANY DISCREPANCIES, THE SAME SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER IN CHARGE.

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|---|---|---|
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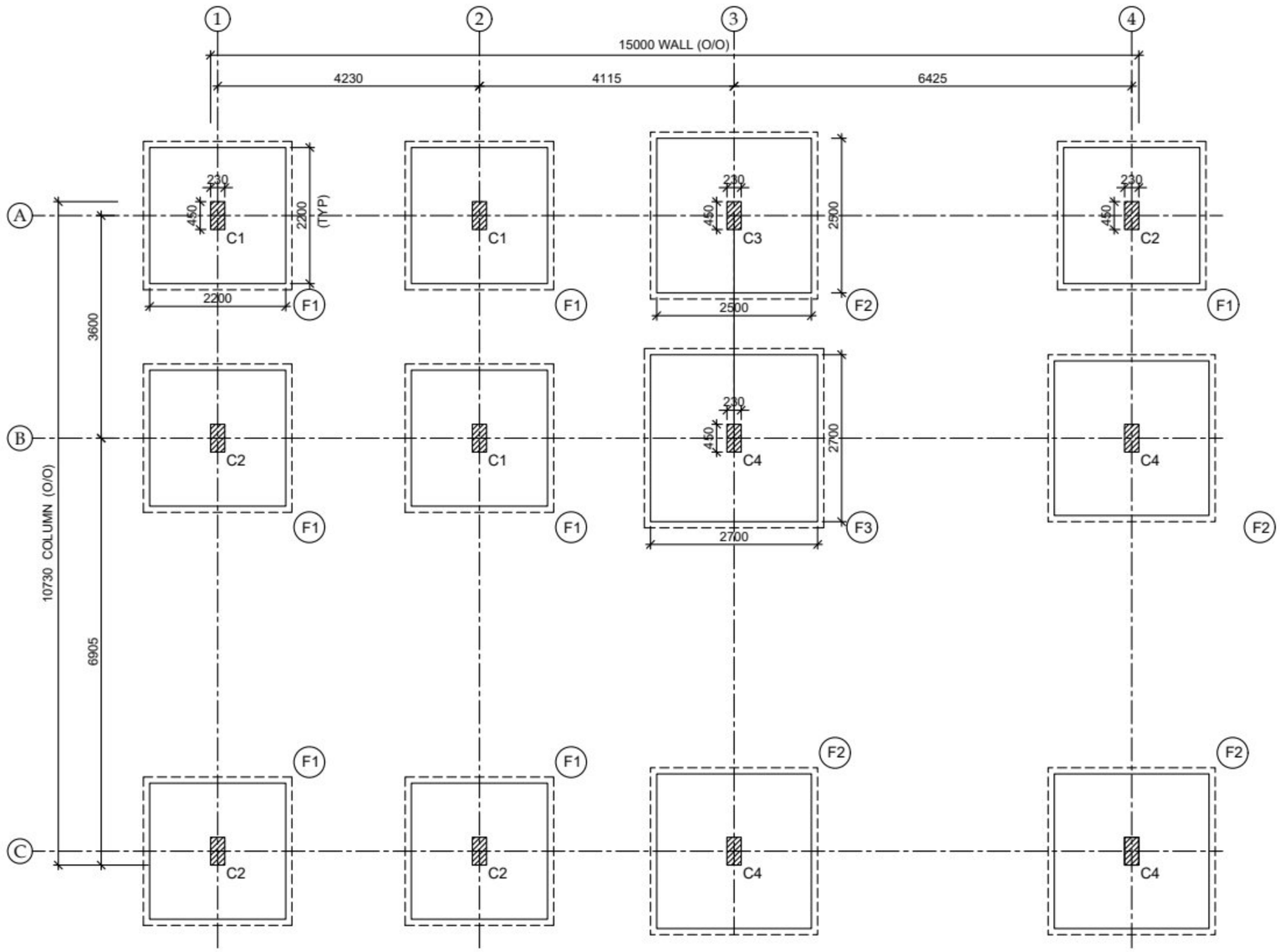
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: SANITARY LAYOUT PLAN

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | NHAI/STR/AD/1005 | R0 |

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COLUMN MARKOUT PLAN & FOUNDATION PLAN

LEGEND:

| | |
|---|---|
| | - GROUND LEVEL |
| T.O.C | - TOP OF CONCRETE |
| F.F.L | - FINISHED FLOOR LEVEL |
| F.G.L | - FINISHED GROUND LEVEL |
| F.R.L | - FINISHED ROAD LEVEL |
| F.N.L | - FOUNDATION LEVEL |
| Y | - HYSD BARS |
| T | - TOP BAR |
| B | - BOTTOM BAR |
| - - - | - TOP BAR |
| ——— | - BOTTOM BAR |

NOTES:-

1. ALL DIMENSIONS ARE IN MM AND ALL LEVELS ARE IN METERS.
2. DO NOT SCALE THE DRAWING. FOLLOW WRITTEN DIMENSIONS ONLY.
3. GRADE OF CONCRETE :M25
4. GRADE OF STEEL : Fe500
5. CLEAR COVER FOR
   - FOOTINGS = 50MM
   - COLUMNS = 40MM
   - BEAMS = 30MM
   - SLABS = 30MM
6. SBC OF SOIL AT FOUNDING LEVEL SHALL NOT BE LESS THAN 10T/M² TO BE CONFIRM BEFORE STARTING UP OF EXECUTION.
7. THE STRUCTURE IS DESIGNED FOR GROUND ONLY
8. SEISMIC ZONE-III IS CONSIDERED.
9. DEVEL0PMENT LENGTH / LAP LENGTH OF BAR = 50d.

REFFERENCE STRUCTURAL DRAWINGS

1. AMA/NH53/ATM/STR/002 : PLINTH BEAM LAYOUT & REINF. DETAILS
2. AMA/NH53/ATM/STR/003 : TIE BEAM LAYOUT & REINF. DETAILS
3. AMA/NH53/ATM/STR/004 : ROOF BEAM LAYOUT & REINF. DETAILS

| REV. | DESCRIPTION OF REVISIONS | DATE |
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TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: MARK OUT PLAN, REINF. DETAILS OF COLUMNS & FOOTINGS

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/001 ( SH 1 of 2) | R0 |

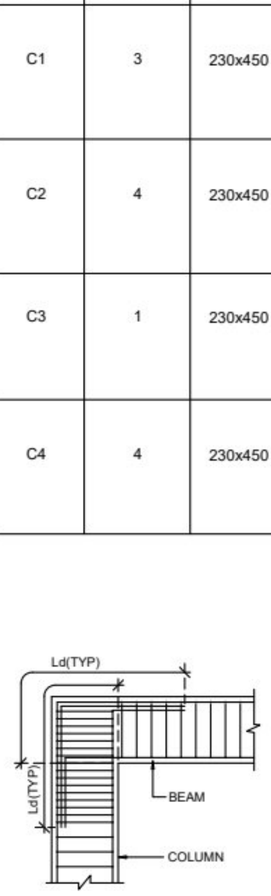
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## SCHEDULE OF COLUMN REINFORCEMENT:

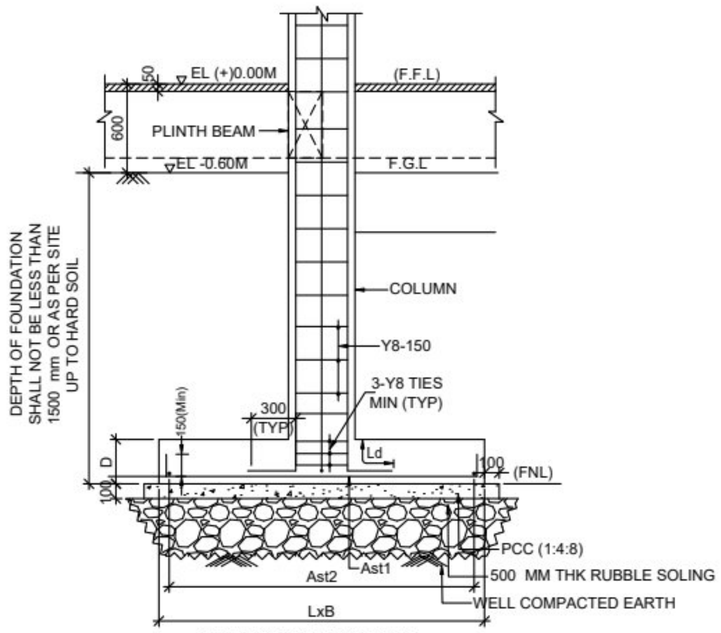
| S.NO. | COLUMN MARK | NUMBER OF COLUMNS | COLUMN SIZE | REINFORCEMENT DETAILS |
|---|---|---|---|---|
| 1. | C1 | 3 | 230x450 | 6-Y16+2-Y20; Y8-150 |
| 2. | C2 | 4 | 230x450 | 2-Y16+6-Y20; Y8-150 |
| 3. | C3 | 1 | 230x450 | 8-Y20; Y8-150 |
| 4. | C4 | 4 | 230x450 | 4-Y20+4-Y25; Y8-150 |

## SCHEDULE OF FOUNDATIONS:

| FDN. MKD. | FOUNDATION SIZE | | | REINFORCEMENT DETAIL | | NO. OF FOUND. |
|---|---|---|---|---|---|---|
| | LENGTH (L) | BREADTH (B) | THK. (D) | BAR MKD. (AST1) (BOTTOM) | BAR MKD. (AST2) (BOTTOM) | |
| F1 | 2200 | 2200 | 300 | Y10-150 | Y10-150 | 7 |
| F2 | 2500 | 2500 | 350 | Y10-125 | Y10-125 | 4 |
| F3 | 2700 | 2700 | 400 | Y10-125 | Y10-125 | 1 |



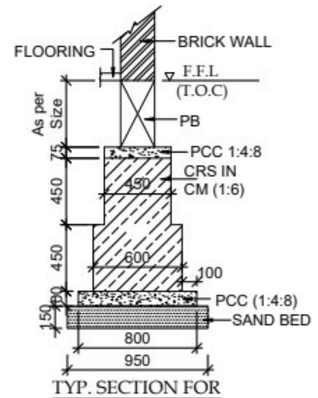

REINFORCEMENE DETAIL AT END BEAM
COLUMN JUNCTION FOR DUCTILE DETAILING



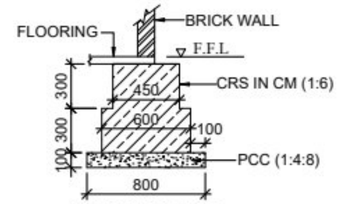

TYP. CS OF FOOTING

**IMP NOTE :**

1. ENSURE SBC 10T/M² BEFORE STARTING UP OF EXECUTION.
2. BACK FILLING SHALL BE WITH SUITABLE EARTH OR MURRUM



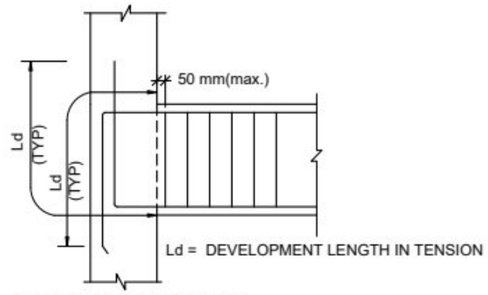

TYP. SECTION FOR
EXTERNAL BRICK WALL




TYP. SECTION FOR
INTERNAL BRICK WALL
(WHERE EVER REQUIRED)

**LEGEND:**

| | |
|---|---|
| | - GROUND LEVEL |
| T.O.C | - TOP OF CONCRETE |
| F.F.L | - FINISHED FLOOR LEVEL |
| F.G.L | - FINISHED GROUND LEVEL |
| F.R.L | - FINISHED ROAD LEVEL |
| F.N.L | - FOUNDATION LEVEL |
| Y | - HYSD BARS |
| T | - TOP BAR |
| B | - BOTTOM BAR |
| - - - | - TOP BAR |
| ——— | - BOTTOM BAR |




TYP. COLUMN/BEAM
JUNCTION DETAILING

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
Flat 411, Sai Sukhdham, Road No 1, Miyapur, Hyderabad- 500049

CONCESSIONAIRE:
NHIT EASTERN PROJECTS PVT.LTD.
Unit No. 325, 3rd Floor, D-21 Corporate Park, Sector 21, Dawarka, New Delhi - 110077

INDEPENDENT ENGINEER:
Marc Technocrats Limited in JV with Bloom Companies LLC in Association with Asian Geotech Research Services
BLOOM COMPANIES, LLC

CLIENT:
NATIONAL HIGHWAYS AUTHORITY OF INDIA
G-5 & 6, Sector-10, Dwarka, New Delhi – 110 075.

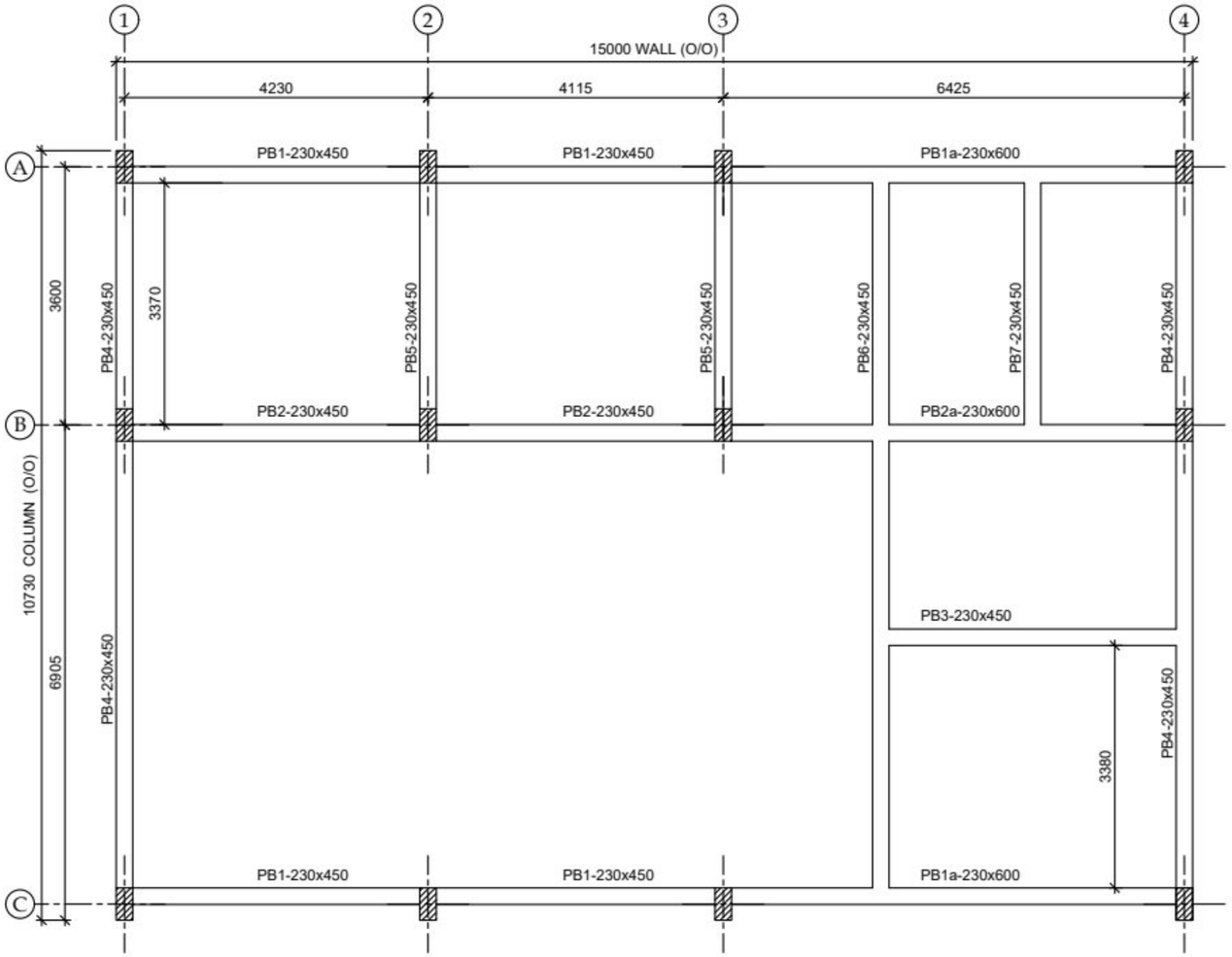
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

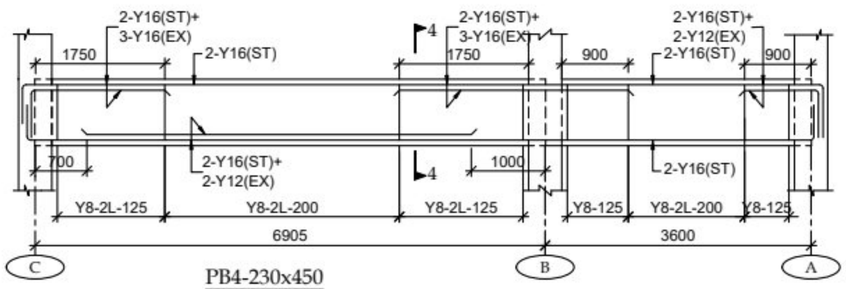
DETAILS: REINF. DETAILS OF COLUMNS & FOOTINGS

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/001( SH 2 OF 2) | R0 |

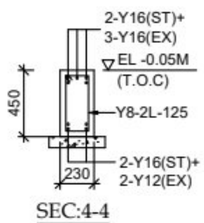
Scanned with OKEN Scanner



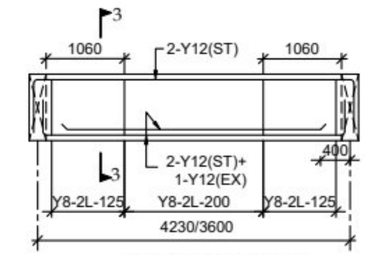

PLINTH BEAM LAYOUT @ EL (-0.05M)(T.O.C)



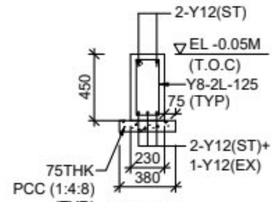

PB4-230x450
(2 Nos)



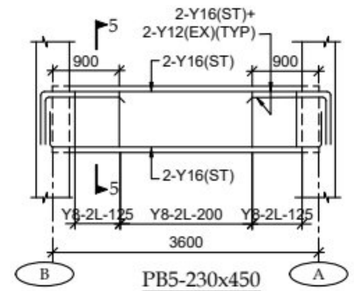

SEC:4-4



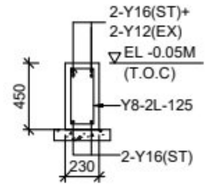

PB3 & PB7-230x450
(1 No.)




SEC:3-3




PB5-230x450
(2 No.)




SEC:5-5

REFERENCE DRAWINGS:

1. FOR NOTES & MARK OUT PLAN, REINF. DETAILS OF COLUMNS & FOOTINGS REFER DRG. NO.AMA/NH53/ATM/STR/001

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
Flat 411, Sai Sukhdham, Road No 1,
Miyapur, Hyderabad- 500049

CONCESSIONAIRE:
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Sector 21, Dawarka, New Delhi - 110077

INDEPENDENT ENGINEER:
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Research Services
BLOOM COMPANIES, LLC

CLIENT:
NATIONAL HIGHWAYS AUTHORITY OF INDIA
G-5 & 6, Sector-10, Dwarka, New Delhi – 110 075.

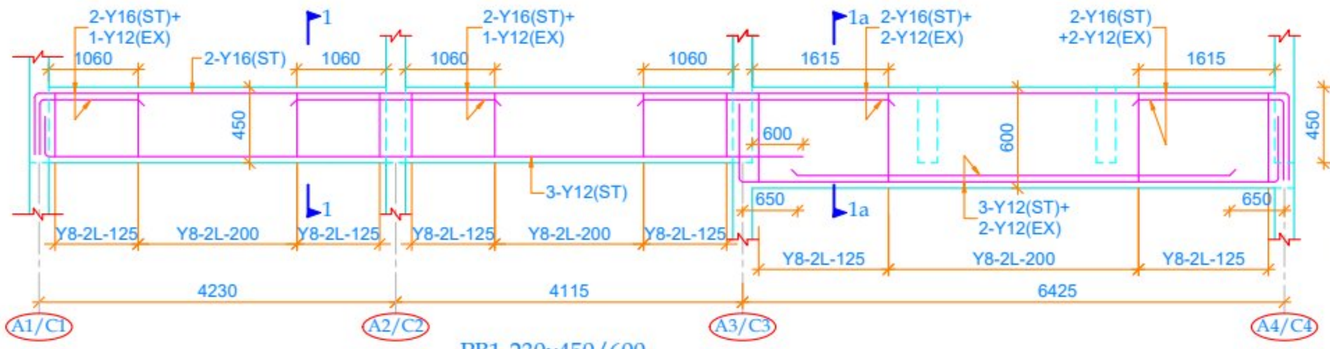
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

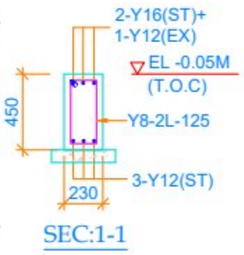
DETAILS: PLINTH BEAM LAYOUT & REINF.DETAILS OF ATM BLOCK

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/002 ( SH1 OF 2) | R0 |

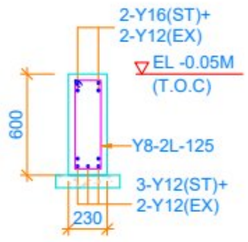
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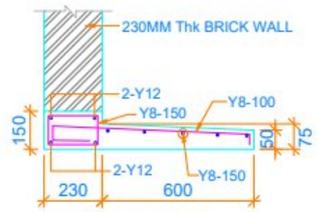

PB1-230x450/600
(2 NoS)



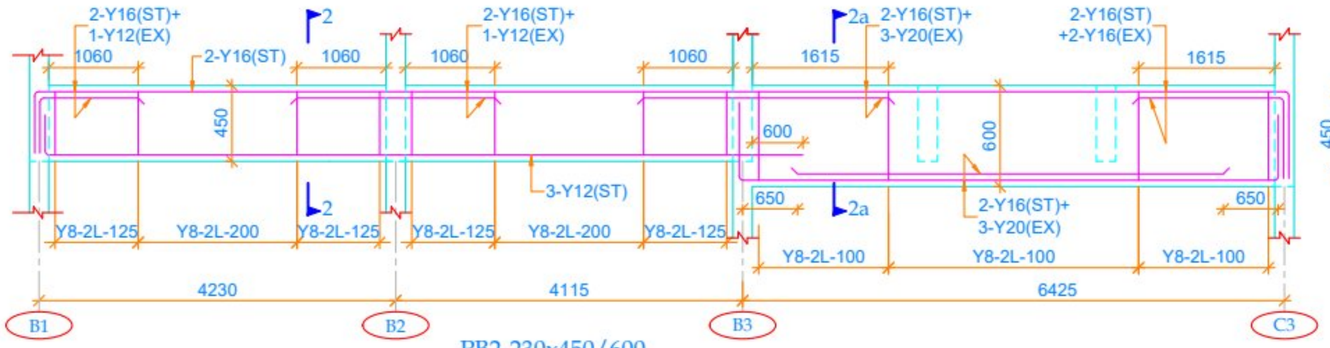

SEC:1-1



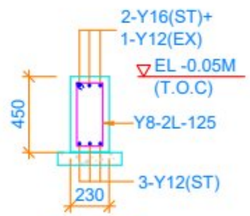

SEC:1a-1a



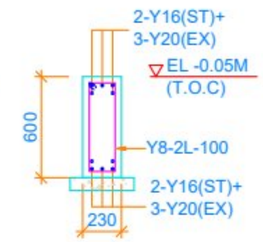

LINTEL BEAM
WITH SUNSHADE



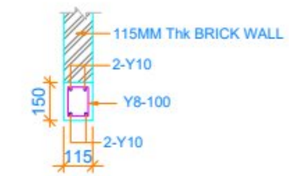

PB2-230x450/600
(1 No)



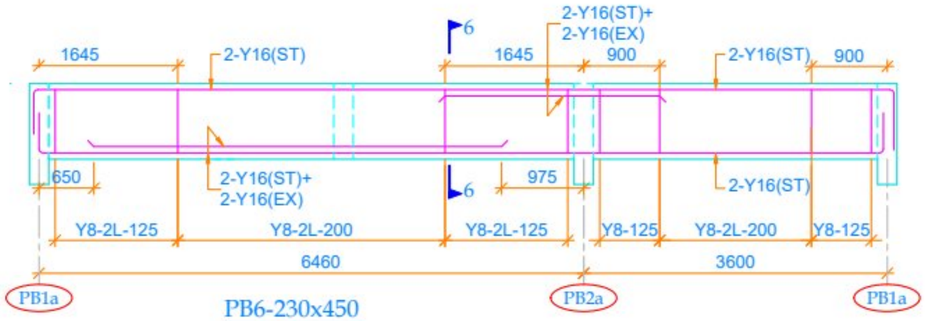

SEC:2-2



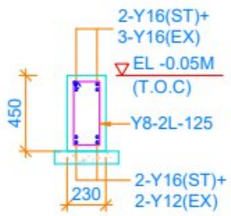

SEC:2a-2a




LINTEL BEAM
WITHOUT SUNSHADE
(internal walls)




PB6-230x450
(1 No)




SEC:6-6

REFERENCE DRAWINGS:

1. FOR NOTES & MARK OUT PLAN, REINF. DETAILS OF COLUMNS & FOOTINGS REFER DRG. NO.AMA/NH53/ATM/STR/001

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
Flat 411, Sai Sukhdham, Road No 1,
Miyapur, Hyderabad- 500049

CONCESSIONAIRE:
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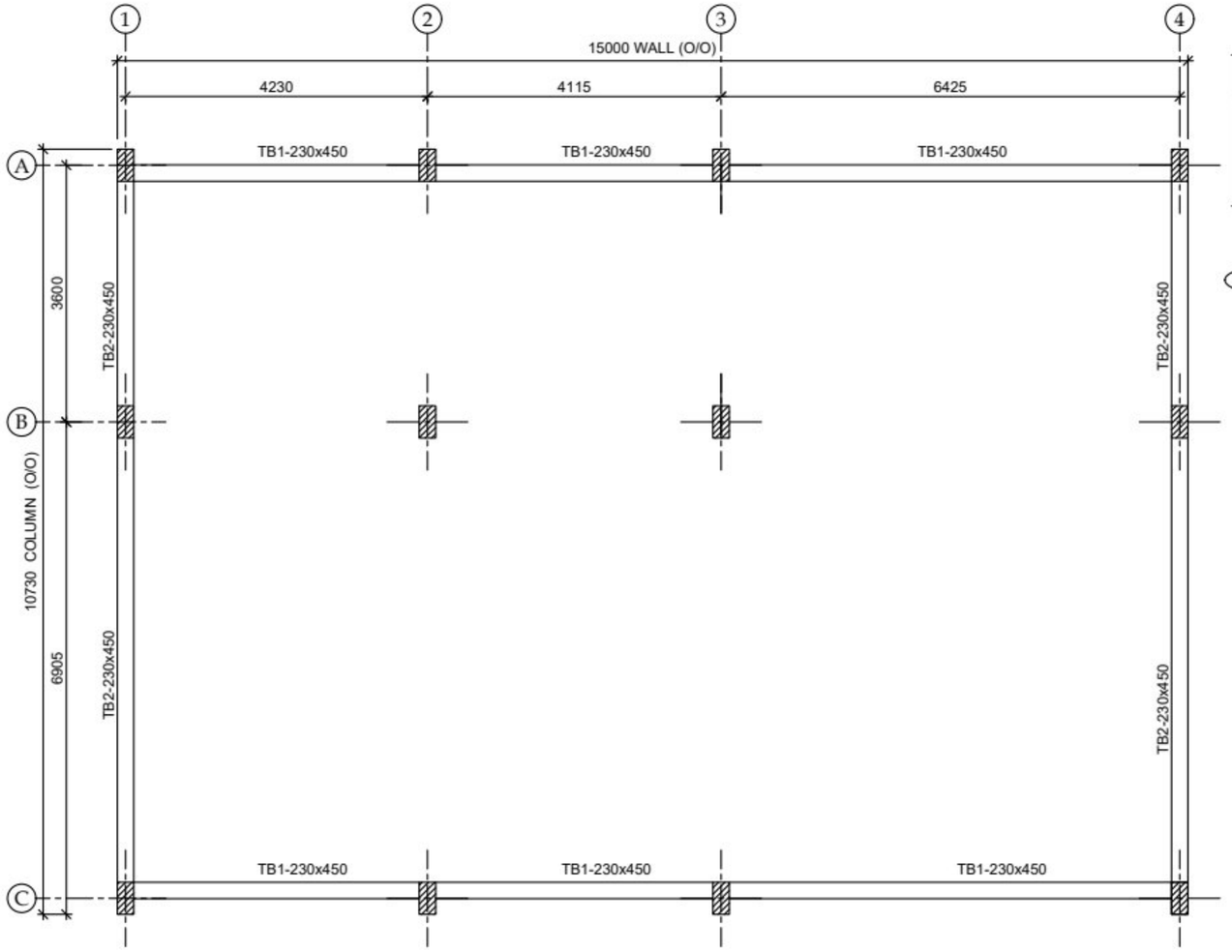
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

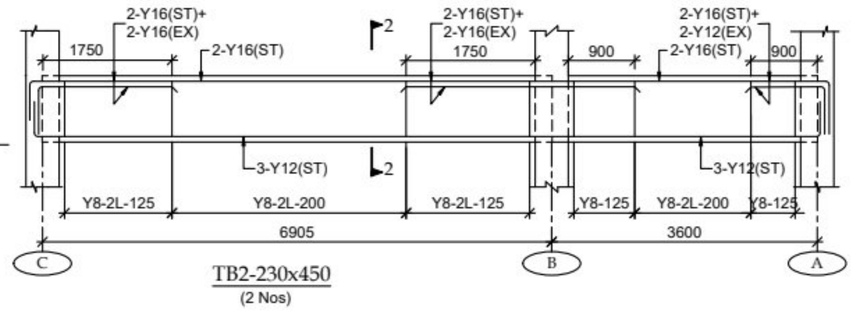
TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: PLINTH BEAM LAYOUT & REINF.DETAILS OF ATM BLOCK

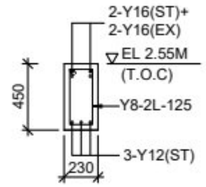
| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/002 ( SH 2 OF 2) | R0 |

Scanned with OKEN Scanner



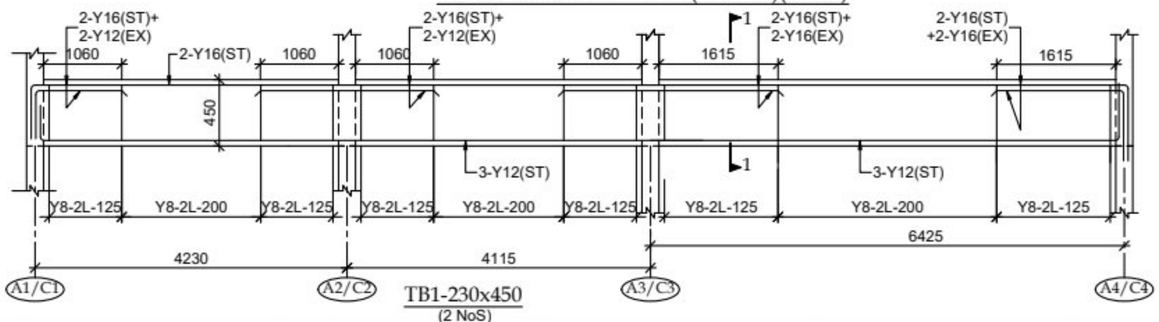




TB2-230x450
(2 Nos)

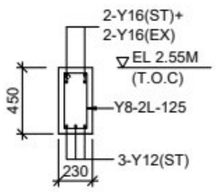



SEC:2-2

## TIE BEAM LAYOUT @ EL (+2.55 M)(T.O.C)




TB1-230x450
(2 NoS)




SEC:1-1

REFERENCE DRAWINGS:

1. FOR NOTES & MARK OUT PLAN, REINF. DETAILS OF COLUMNS & FOOTINGS REFER DRG. NO.AMA/NH53/ATM/STR/001

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
Flat 411, Sai Sukhdham, Road No 1,
Miyapur, Hyderabad- 500049

CONCESSIONAIRE:
NHIT EASTERN PROJECTS PVT.LTD.
Unit No. 325, 3rd Floor, D-21 Corporate Park,
Sector 21, Dwarka, New Delhi - 110077

INDEPENDENT ENGINEER:
Marc Technocrats Limited in JV with Bloom Companies LLC in Association with Asian Geotech Research Services

CLIENT:
NATIONAL HIGHWAYS AUTHORITY OF INDIA
G-5 & 6, Sector-10, Dwarka, New Delhi – 110 075.

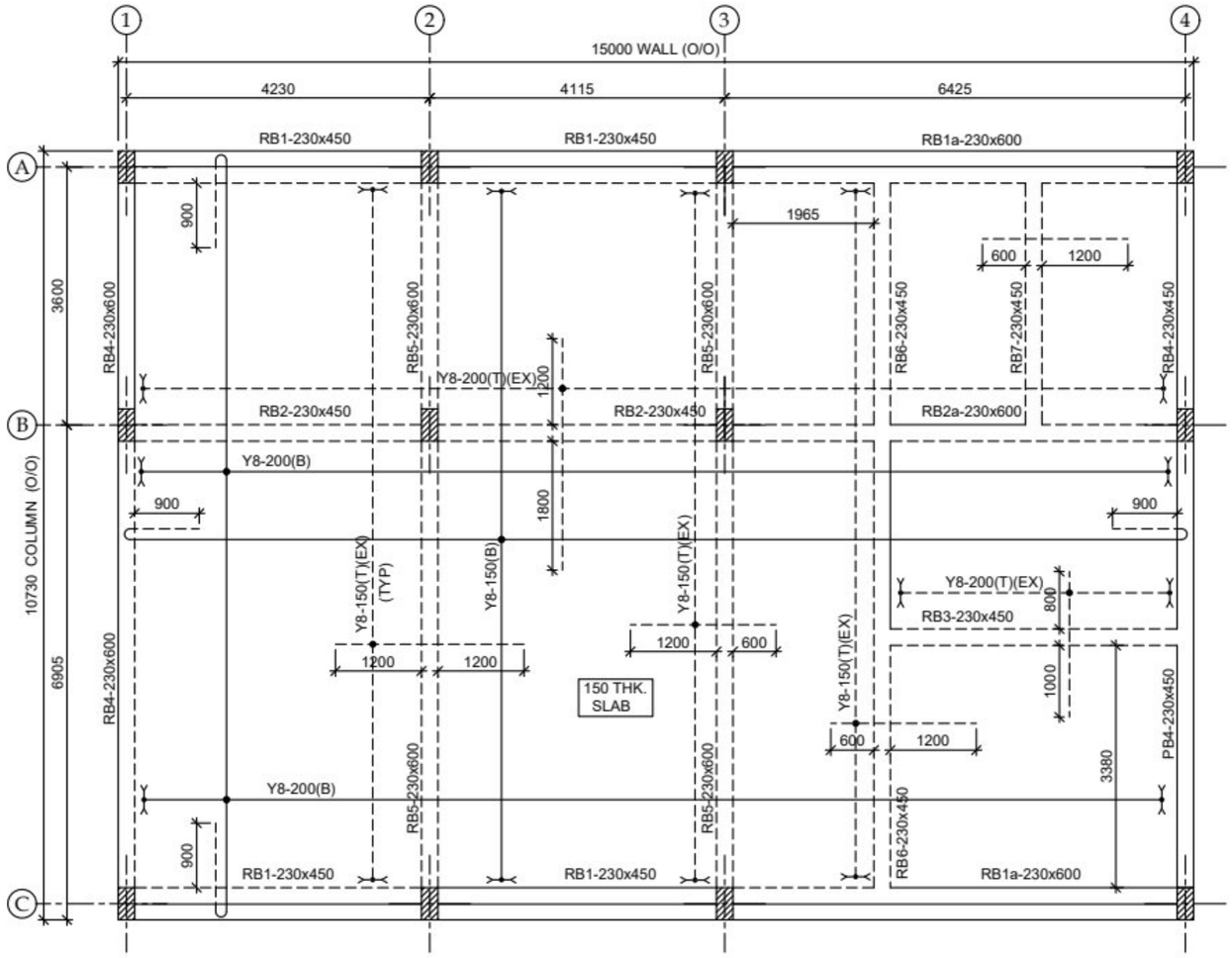
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

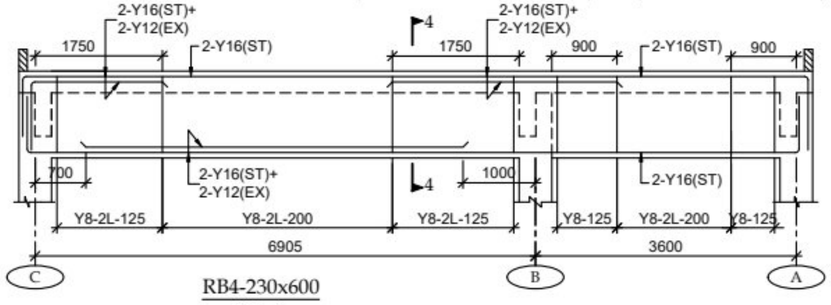
DETAILS: TIE BEAM LAYOUT & REINF.DETAILS OF ATM BLOCK

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/003 | R0 |

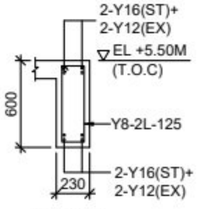
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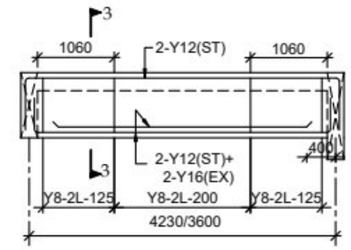

ROOF BEAM LAYOUT @ EL (+5.50m)(T.O.C)
(PROVIDE DISTRIBUTION REIN (Y8-200) WHEREVER REQUIRED)



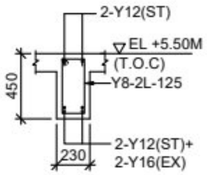

RB4-230x600
(2 Nos)



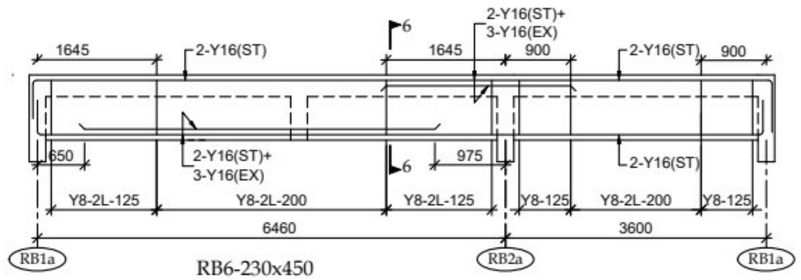

SEC:4-4



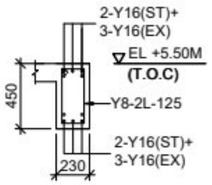

RB3/RB7 -230x450
(1 No.)




SEC:3-3




RB6-230x450
(1 No)




SEC:6-6

REFERENCE DRAWINGS:

1. FOR NOTES & MARK OUT PLAN, REINF. DETAILS OF COLUMNS & FOOTINGS REFER DRG. NO.AMA/NH53/ATM/STR/001

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

DESIGN CONSULTANT:
SAMHITHA DESIGN CONSULTANTS
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CONCESSIONAIRE:
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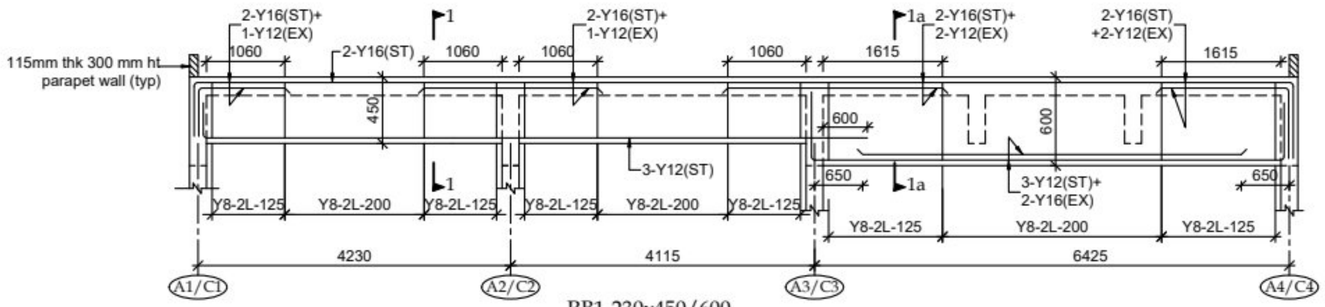
NAME OF WORK:
PROJECT NAME: *Tolling, Operation, Maintenance & Transfer of AMRAVATI - TARSOD section from Km 166+725 to Km 422+700 of Old NH-06 (New NH-53) in the state of Maharashtra*

TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: ROOF BEAM & SLAB LAYOUT & REINF.DETAILS OF ATM BLOCK

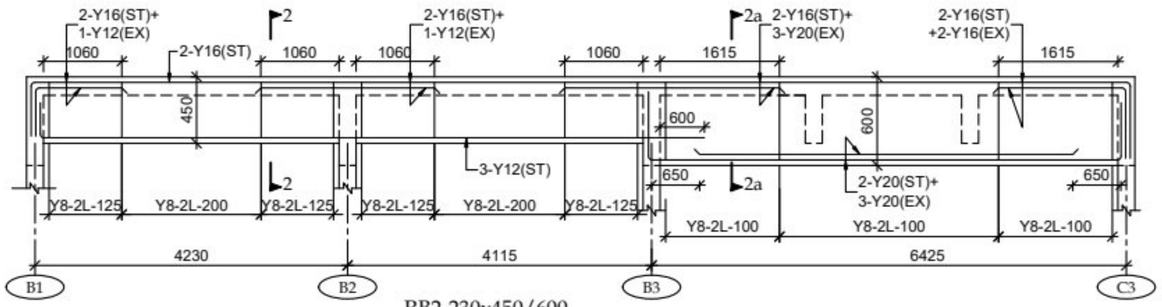
| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/004 ( Sh1 of 2) | R0 |

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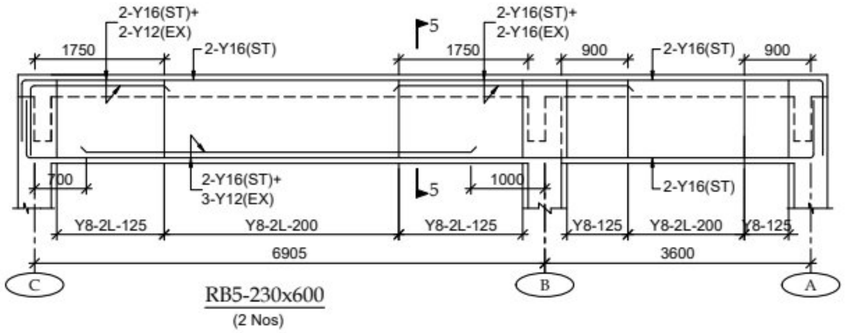

RB1-230x450/600

(2 NoS)



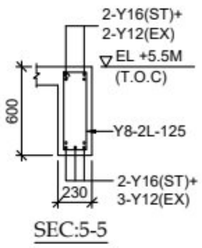

RB2-230x450/600

(1 No)

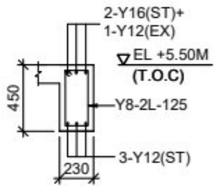



RB5-230x600

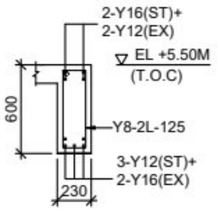
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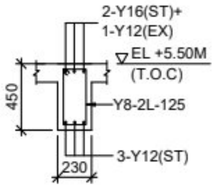

SEC:5-5



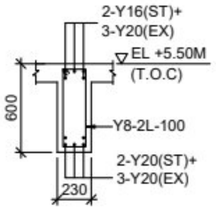

SEC:1-1




SEC:1a-1a




SEC:2-2




SEC:2a-2a

REFERENCE DRAWINGS:

1. FOR NOTES & MARK OUT PLAN, REINF. DETAILS OF COLUMNS & FOOTINGS REFER DRG. NO.AMA/NH53/ATM/STR/001

| REV. | DESCRIPTION OF REVISIONS | DATE |
|---|---|---|
| | | |

DESIGN CONSULTANT:
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TITLE: ATMS COMMAND & CONTROL CENTER

DETAILS: ROOF BEAM & SLAB LAYOUT & REINF.DETAILS OF ATM BLOCK

| DATE: | SCALE: | DRAWING NO.: | REV. |
|---|---|---|---|
| SEPT 2026 | AS SHOWN ABOVE | AMA/NH53/ATM/STR/004 ( Sh2 of 2) | R0 |

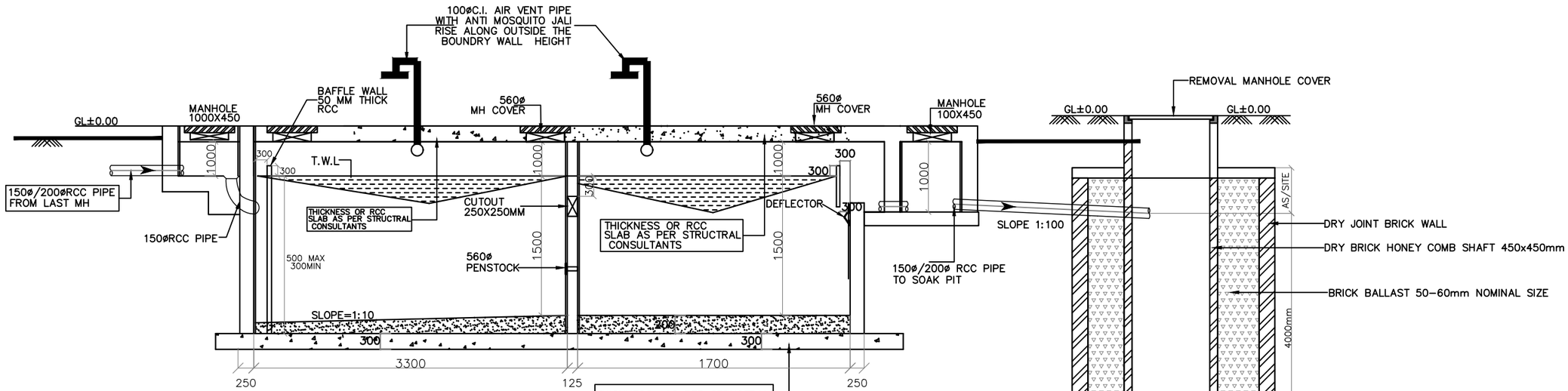
Scanned with OKEN Scanner

## NOTES

| | |
|---|---|
| 1. | ALL DIMENSIONS ARE IN M.M. |
| 2. | THE BACK FILL AROUND THE LINING SHOULD BE CLEAN CRUSHED STONE OR GRAVEL. |
| 3. | THE COARSE GRAVEL SHALL BE PLACED IN THE BOTTOM. |
| 4. | FOR LOCATION OF SOAK PIT REFER RELEVANT SEWERAGE SYSTEM DRG. |

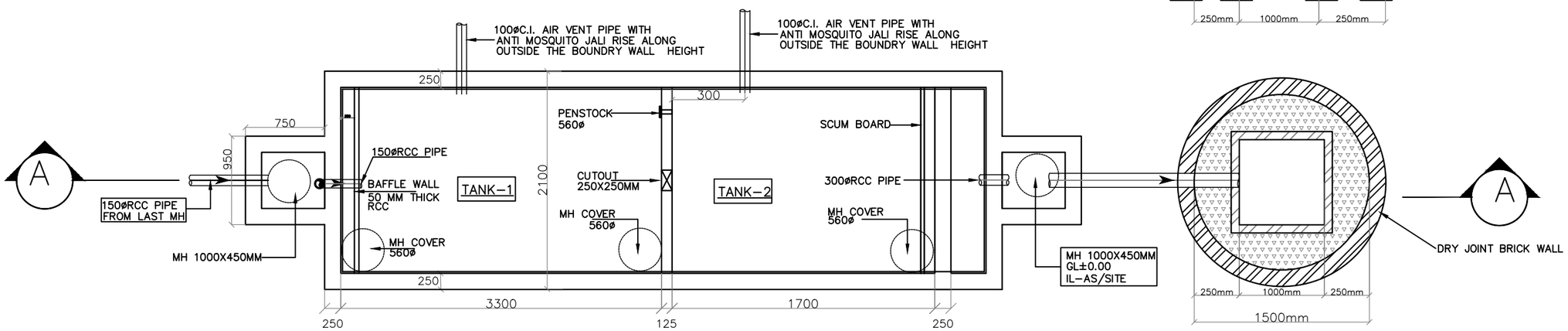
**SEPTIC TANK BY OTHERS USERS**

| USER'S | LENGTH T1 | LENGTH T2 | WIDTH | HEIGHT |
|---|---|---|---|---|
| 310–390 | 3300mm | 1700mm | 1600mm | 4000mm |




SECTION –AA




PLAN
SEPTIC TANK




PLAN
SOAK PIT

SCALE: –N.T.S

# SEPTIC TANK & SOAK PIT DETAIL

ANV DESIGN ASSOCIATES HISAR

| REV | DATE | DESCRIPTION | DRN. | ENGR. |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

CLIENT: NHIT Western Project Private Limited

INDEPENDENT ENGINEER: K and J Projects Private Limited in association with Ms MVK Infrabuild Pvt. Ltd.

AUTHORITY ENGINEER:

EPC CONTRACTOR:

PROOF CONSULTANT:

SAFETY CONSULTANT:

DESIGN CONSULTANT: M/S ANV DESIGN ASSOCIATES 129,NEAR MELA GROUND,SHIV NAGAR,HISAR,HARYANA,127046

PROJECT:

| | |
|---|---|
| PREPARED | MM |
| DESIGNED | MK |
| CHECKED | SR |
| APPROVED | SP |

TITLE: SEPTIC TANK AND SOAKPIT DETAILS

DATE: APR,2025

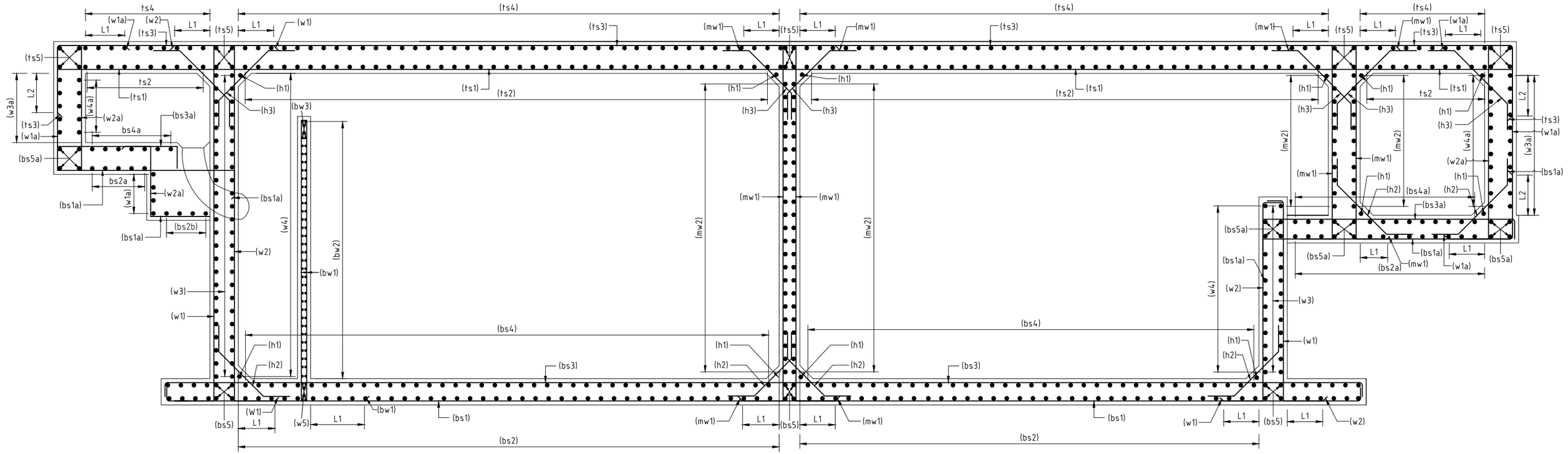
SCALE: NTS

SIZE: A2

DRG. NO: ANV-ATMS-01

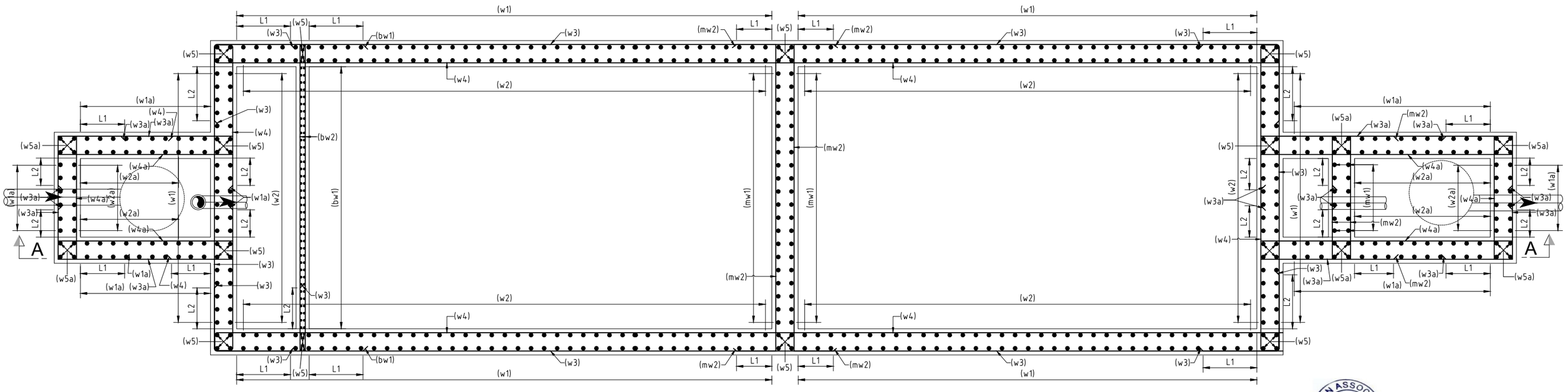
SHEET: 01

REV: R0




## SECTION A-A

SCALE : 1/30




## SECTIONAL PLAN

SCALE : 1/30

ANV DESIGN ASSOCIATES HISAR

| REV | DATE | DESCRIPTION | DRN. | ENGR. |
|---|---|---|---|---|
| | | | | |

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INDEPENDENT ENGINEER: K and J Projects Private Limited in association with Ms MVK Infrabuild Pvt. Ltd.

AUTHORITY ENGINEER:

EPC CONTRACTOR:

PROOF CONSULTANT:

SAFETY CONSULTANT:

DESIGN CONSULTANT: M/S ANV DESIGN ASSOCIATES 129,NEAR MELA GROUND,SHIV NAGAR,HISAR,HARYANA,127046

PROJECT:

| | |
|---|---|
| PREPARED | MM |
| DESIGNED | MK |
| CHECKED | SR |
| APPROVED | SP |

TITLE: **REINFORCE**MENT SECTIONAL DETAILS

SCALE: NTS

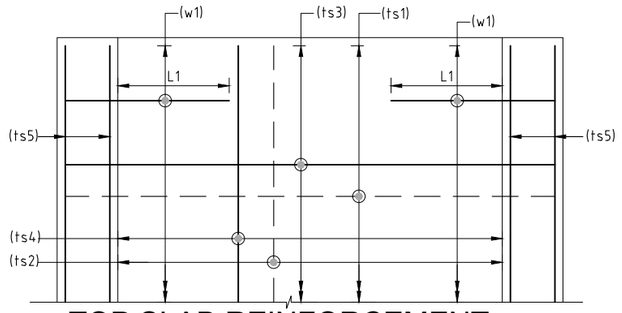
SIZE: A2

DRG. NO: ANV-ATMS-02

SHEET: 02

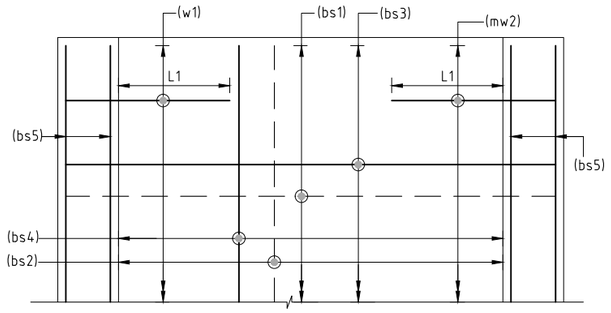
REV: R0

DATE: APR,2025




## TOP SLAB REINFORCEMENT

SCALE : 1/15




## BOTTOM SLAB REINFORCEMENT

SCALE : 1/15

| LEGEND | |
|---|---|
| TOP BAR/EARTH FACE BAR | ——— |
| BOTTOM/NON EARTH FACE BAR | — — — |

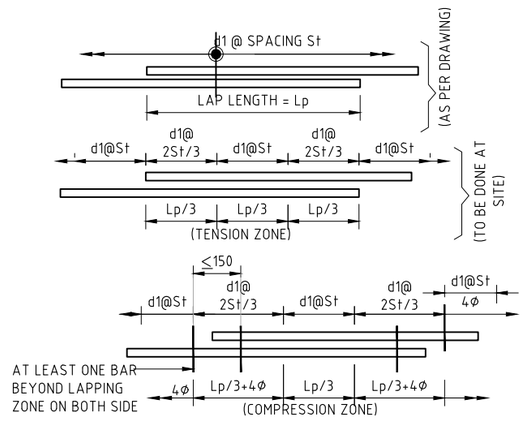
## NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS IN METERS AND CHAINAGES IN KILOMETERS UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. BAR SHOWN IN THE DRAWING ARE NOT TO BE COUNTED, ONLY WRITTEN DATA SHALL BE FOLLOWED.
4. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBE AS FOLLOWS:
   RCC BOX – M30
5. REINFORCING STEEL SHALL BE OF THERMO MECHANICALLY TREATED (TMT) BARS. (GRADE DESIGNATION Fe 500D) CONFORMING TO IS:1786.
6. CLEAR COVER TO OUTERMOST STEEL SHALL BE 50mm.
7. MIN. DEVELOPMENT LENGTH TO BE 40d
8. LAP SHALL BE STAGGERED AND SUITABLY PLACED. LAP LENGTH SHALL BE PROVIDED AS PER THE TABLE GIVEN BELOW, CONFORMING TO CLAUSE 15.2.5.1 OF IRC:112-2020

| FAVORABLE BOND CONDITION | |
|---|---|
| LAP LENGTH | % LAP AT ANY SECTION IS |
| 40d | <25% |
| 46d | BETWEEN 25-33% |
| 56d | BETWEEN 33-50% |
| 60d | >50% |

| UNFAVORABLE BOND CONDITION | |
|---|---|
| LAP LENGTH | % LAP AT ANY SECTION IS |
| 58d | <25% |
| 66d | BETWEEN 25-33% |
| 80d | BETWEEN 33-50% |
| 86d | >50% |

WHERE,
d = DIAMETER OF BAR.
ARRANGEMENT OF TRANSVERSE REINFORCEMENT IN LAP ZONE:-




## REINFORCEMENT SCHEDULE:

### SEPTIC TANK

| | BAR No. | BAR SHAPE | DIA (mm) | SPACING/ Nos.. |
|---|---|---|---|---|
| TOP SLAB | (ts1) | 200 ⌊ ⌋ 200 | 10 | 200 |
| | (ts2) | 200 ⌊ ⌋ 200 | 10 | 200 |
| | (ts3) | L2 ⌊ ⌋ L2 | 10 | 200 |
| | (ts4) | 200 ⌊ ⌋ 200 | 10 | 200 |
| | (ts5) | ——— | 10 | 2 x 4 |
| WALL | (w1) | ⌊ L1 / L1 | 16 | 200 |
| | (w2) | ⌊ 200 / 200 | 12 | 200 |
| | (w3) | 200 ⌊ ⌋ 200 | 10 | 150 |
| | (w4) | 200 ⌊ ⌋ 200 | 10 | 300 |
| | (w5) | ——— | 10 | 2 x 4 |
| | (w1a) | ⌊ L1 / L1 | 10 | 200 |
| | (w2a) | ⌊ 200 / 200 | 10 | 200 |
| | (w3a) | 200 ⌊ ⌋ 200 | 10 | 200 |
| | (w4a) | 200 ⌊ ⌋ 200 | 10 | 200 |
| | (w5a) | ——— | 10 | 2 x 4 |
| MID WALL | (mw1) | ⌊ L1 / L1 | 16 | 200 |
| | (mw2) | 200 ⌊ ⌋ 200 | 16 | 200 |
| BOTTOM SLAB | (bs1) | L2 ⌊ ⌋ L2 | 12 | 200 |
| | (bs2) | 200 ⌊ ⌋ 200 | 10 | 150 |
| | (bs3) | 200 ⌊ ⌋ 200 | 16 | 200 |
| | (bs4) | 200 ⌊ ⌋ 200 | 12 | 150 |
| | (bs5) | ——— | 10 | 2 x 4 |
| | (bs1a) | L2 ⌊ ⌋ L2 | 12 | 200 |
| | (bs2a) | 200 ⌊ ⌋ 200 | 10 | 150 |
| | (bs3a) | 200 ⌊ ⌋ 200 | 16 | 200 |
| | (bs4a) | 200 ⌊ ⌋ 200 | 12 | 150 |
| | (bs5a) | ——— | 10 | 2 x 4 |
| | (bw1) | L2 ⌊ ⌋ L2 | 10 | 200 |
| | (bw2) | 200 ⌊ ⌋ 200 | 12 | 200 |
| | (bw3) | ——— | 10 | 2 x 4 |
| HAUNCH | (h1) | 200 200 / 200 200 | 10 | 180 |
| | (h2) | 200 200 / 200 200 | 10 | 180 |
| | (h3) | ——— | 10 | 1 x 4 |
| BAR CURTAILMENT | L1 | | 2000 | |
| | L2 | | 2000 | |

ANV DESIGN ASSOCIATES HISAR

| REV | DATE | DESCRIPTION | DRN. | ENGR. |
|---|---|---|---|---|
| | | | | |

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PROJECT:

| | |
|---|---|
| PREPARED | MM |
| DESIGNED | MK |
| CHECKED | SR |
| APPROVED | SP |

TITLE: SEPTIC TANK REINFORCEMENT DETAILS

DATE: APR,2025

SCALE: NTS

SIZE: A2

DRG. NO: ANV-ATMS-03

SHEET: 03

REV: R0