

RFP No. HML / INFRA / 01 / 2021

**REQUEST FOR PROPOSAL (RFP)
FOR SELECTION OF
DESIGN & BUILD CONTRACTOR
FOR DEVELOPMENT OF PHYSICAL INFRASTRUCTURE AND
CONSTRUCTION OF ADMINISTRATIVE BLOCK AT
MEDIPARK IN CHENGALPATTU DISTRICT, TAMIL NADU**

**VOLUME IV
SCHEDULE OF WORKS**

**SCHEDULE 8
INTENT DRAWINGS**



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(A Govt. of India Enterprise)
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Contents

1. SOIL REPORTS	4
1.1. SOIL BORE LOG PROFILE	4
1.2. SPOT LEVELS	6
2. MASTER PLAN	7
3. LOCATION OF UTILITIES	8
4. ROAD AND STORM WATER DRAIN NETWORK	9
4.1. ROAD LAYOUT	9
4.2. STORM WATER DRAIN LAYOUT	10
4.3. TYPICAL CROSS SECTION	11
4.4. ROAD PROFILE	12
4.5. DRAIN PROFILE	13
4.6. PIPE CULVERT DETAILS	14
4.7. DRAIN CROSS SECTION DETAILS	15
4.8. SITE GRADING DETAILS	16
5. ELECTRICAL NETWORK	17
5.1. 11KV OVERHEAD LINES AND STREET LIGHTING LOCATION LAYOUT	17
5.2. TRANSFORMER, DG, YARD, MAIN ELECTRICAL ROOM, LT UNDERGROUND CABLE ROUTING LAYOUT	18
5.3. 11KV OVER HEADLINES DISTRIBUTION DETAIL	19
5.4. LT DISTRIBUTION SINGLE LINE DIAGRAM	20
6. WATER SUPPLY SYSTEM	21
6.1. WATER SUPPLY NETWORK	21
6.2. OVERHEAD TANK – PLAN AND SECTION	22
6.3. UNDERGROUND SUMP – PLAN AND SECTION	23
7. WASTEWATER SYSTEM	24
7.1. SEWERAGE NETWORK	24
7.2. STP – PLAN AND SECTION	25
8. ADMINISTRATIVE BUILDING	26
8.1. ADMINISTRATIVE BUILDING - PLAN AND SECTION	26
8.2. ADMINISTRATIVE BUILDING - WATER SUPPLY	27
8.3. ADMINISTRATIVE BUILDING – LIGHTING LAYOUT	28
8.4. ADMINISTRATIVE BUILDING – POWER LAYOUT	29
8.5. ADMINISTRATIVE BUILDING – SINGLE LINE DIAGRAM	30
9. ENTRANCE GATE AND SECURITY ROOM	31
9.1. ENTRANCE GATE – PLAN AND ELEVATION	31
9.2. ENTRANCE GATE AND SECURITY ROOM – STRUCTURAL DETAILS	32

9.3.	SECURITY ROOM – PLAN	33
9.4.	SECURITY ROOM – STRUCTURAL DETAILS	34

1. SOIL REPORTS

1.1. SOIL BORE LOG PROFILE

BH No:	BH-02
Type of Boring :	Rotary
Inclination :	Vertical

Ground Water Table :	Not Encountered
Date Started :	28th July 2016
Date Completed :	28th July 2016

Description of Strata	Soil Classification	Depth from ground surface (m)	SPT Details				Samples			Ground Water Level	Remarks
			15	30	45	N	Type	Lab Ref No.	Depth (m)		
(1)	(2)	(3)	(4)				(5)	(6)	(7)	(8)	(9)
Dark Grayish Brown Clayey Sand	SC	3.00	10	12	15	27	SPT	BH-02/1	1.5	Not Encountered	
			9	21	23	44	SPT	BH-02/2	3.0		
Brownish Silty fine to medium Very Dense Sand	SP - SM	6.00	28	57	53 Blows for 7 cm		SPT	BH-02/3	4.5		
Brownish Poorlygraded Sand			75 Blows for 5 cm				SPT	BH-02/4	6.0		
Weathered Rocky Material		10.00	Samples Collected								
Bore Hole Terminated at the Depth of 10.00 Metres											

BH No:	BH-04
Type of Boring :	Rotary
Inclination :	Vertical

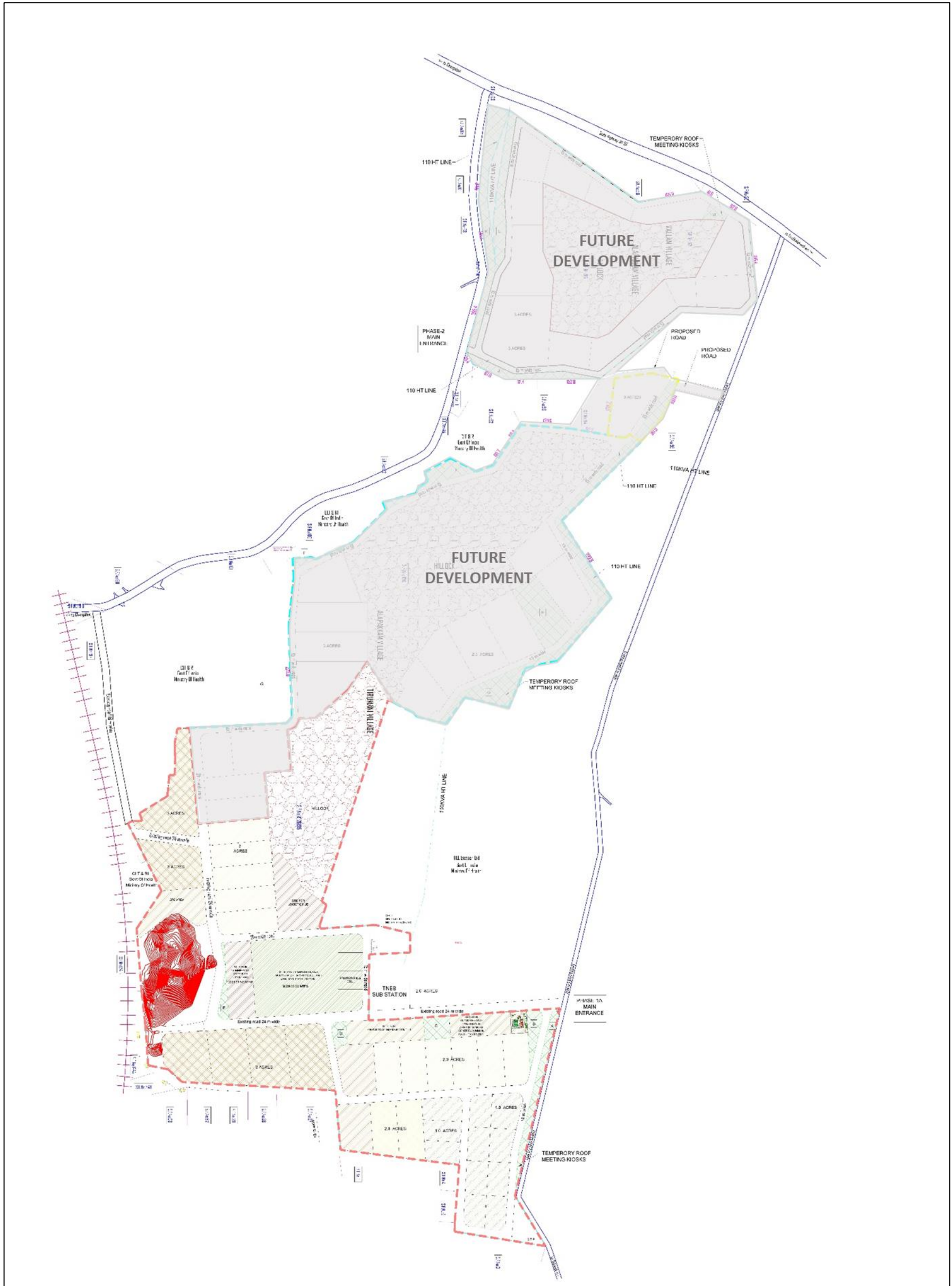
Ground Water Table :	Not Encountered
Date Started :	29th July 2016
Date Completed :	29th July 2016

Description of Strata	Soil Classification	Depth from ground surface (m)	SPT Details				Samples			Ground Water Level	Remark
			15	30	45	N	Type	Lab Ref No.	Depth (m)		
(1)	(2)	(3)	(4)				(5)	(6)	(7)	(8)	(9)
Dark Grayish Brown Silty Gravelly Sand	GM-SM	3.00	13	16	20	36	SPT	BH-02/1	1.5	Not Encountered	
			48	50 Blows for 7 cm			SPT	BH-02/2	3.0		
Dark Grayish Poorlygraded Sand	SP	6.00	50 Blows for 8 cm				SPT	BH-02/3	4.5		
			50 Blows for 5 cm				SPT	BH-02/4	6.0		
Small Broken Core Pieces of Weathered Rock		10.00	Samples Collected								
Bore Hole Terminated at the Depth of 10.00 Metres											

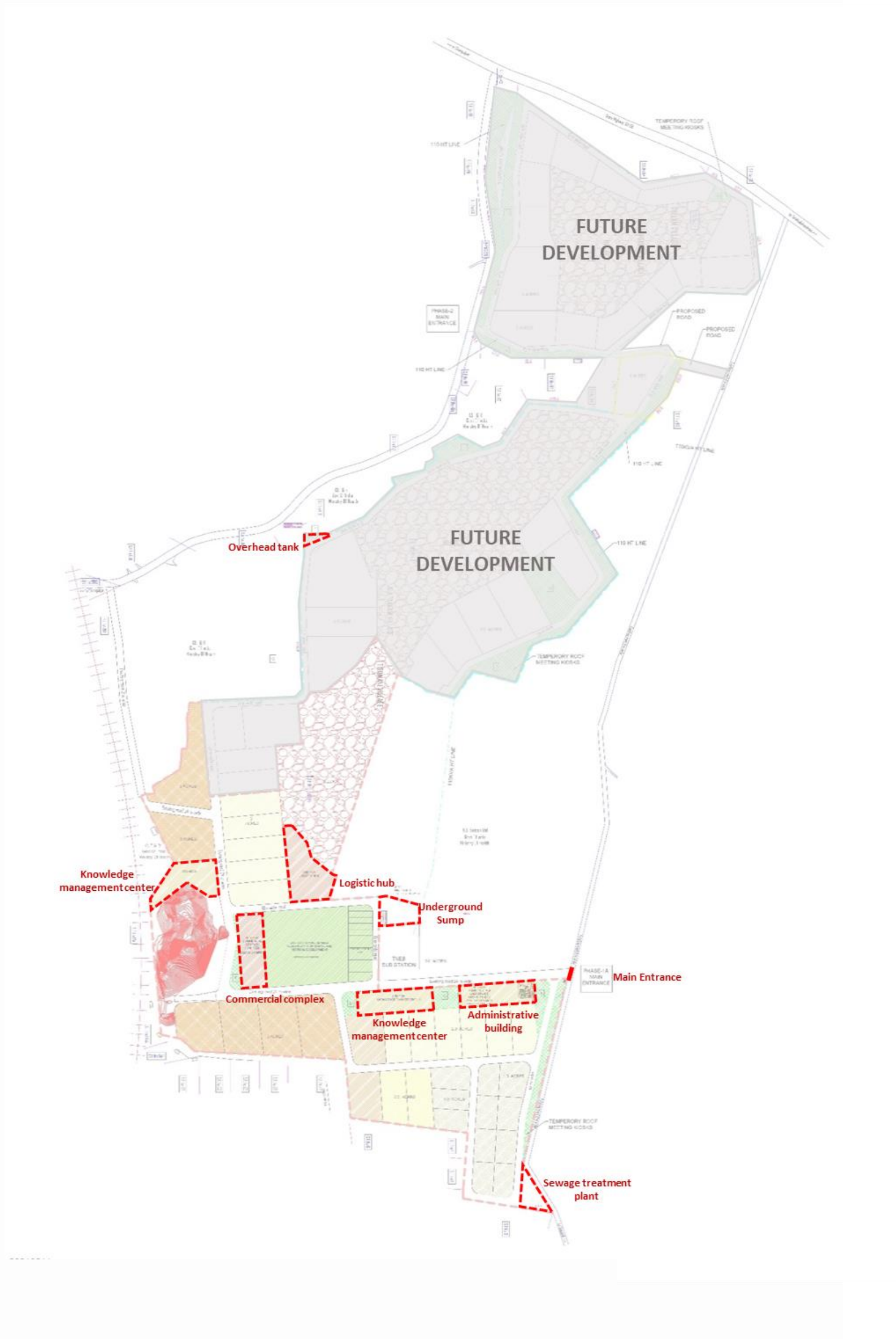
1.2.



2. MASTER PLAN

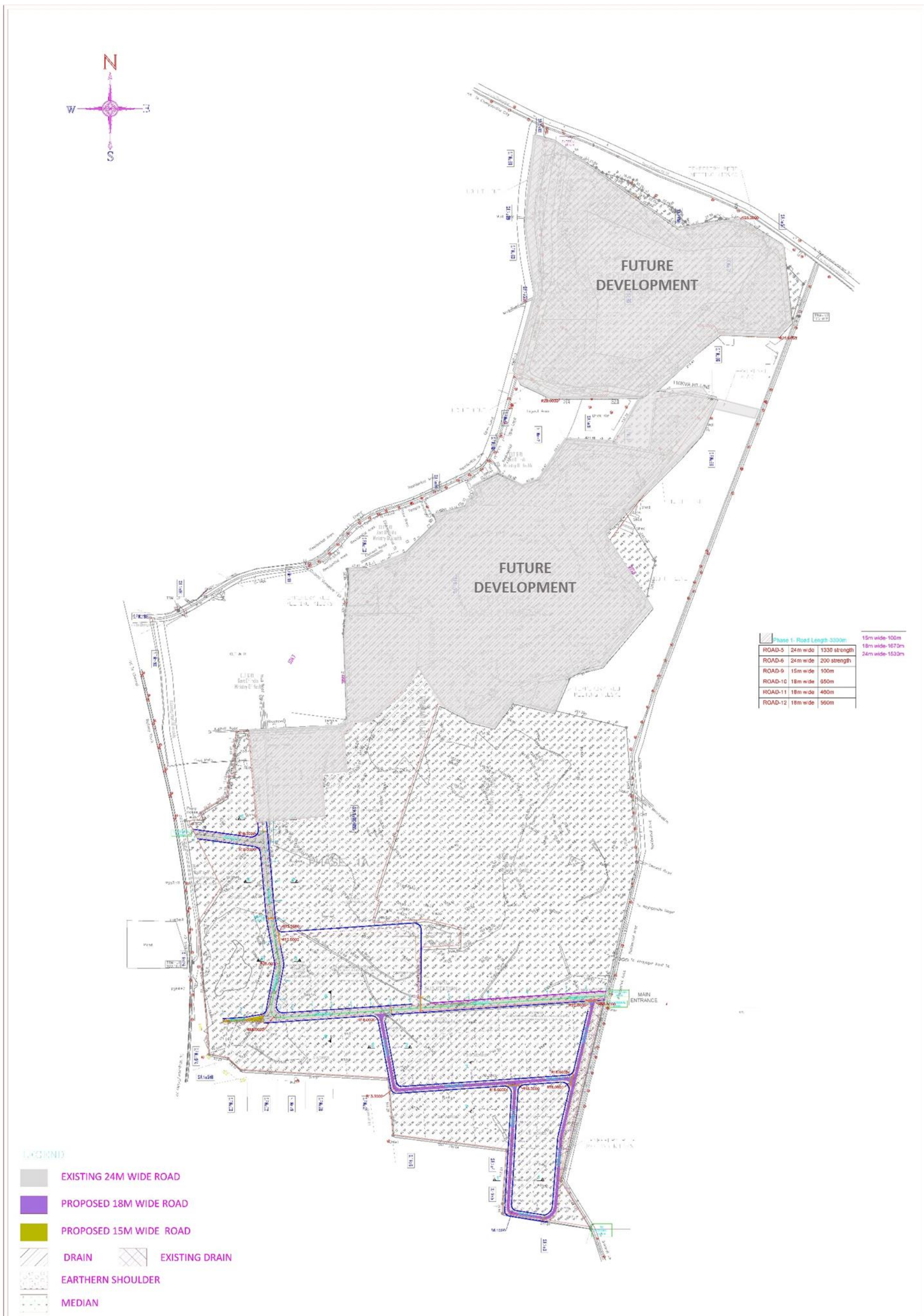


3. LOCATION OF UTILITIES

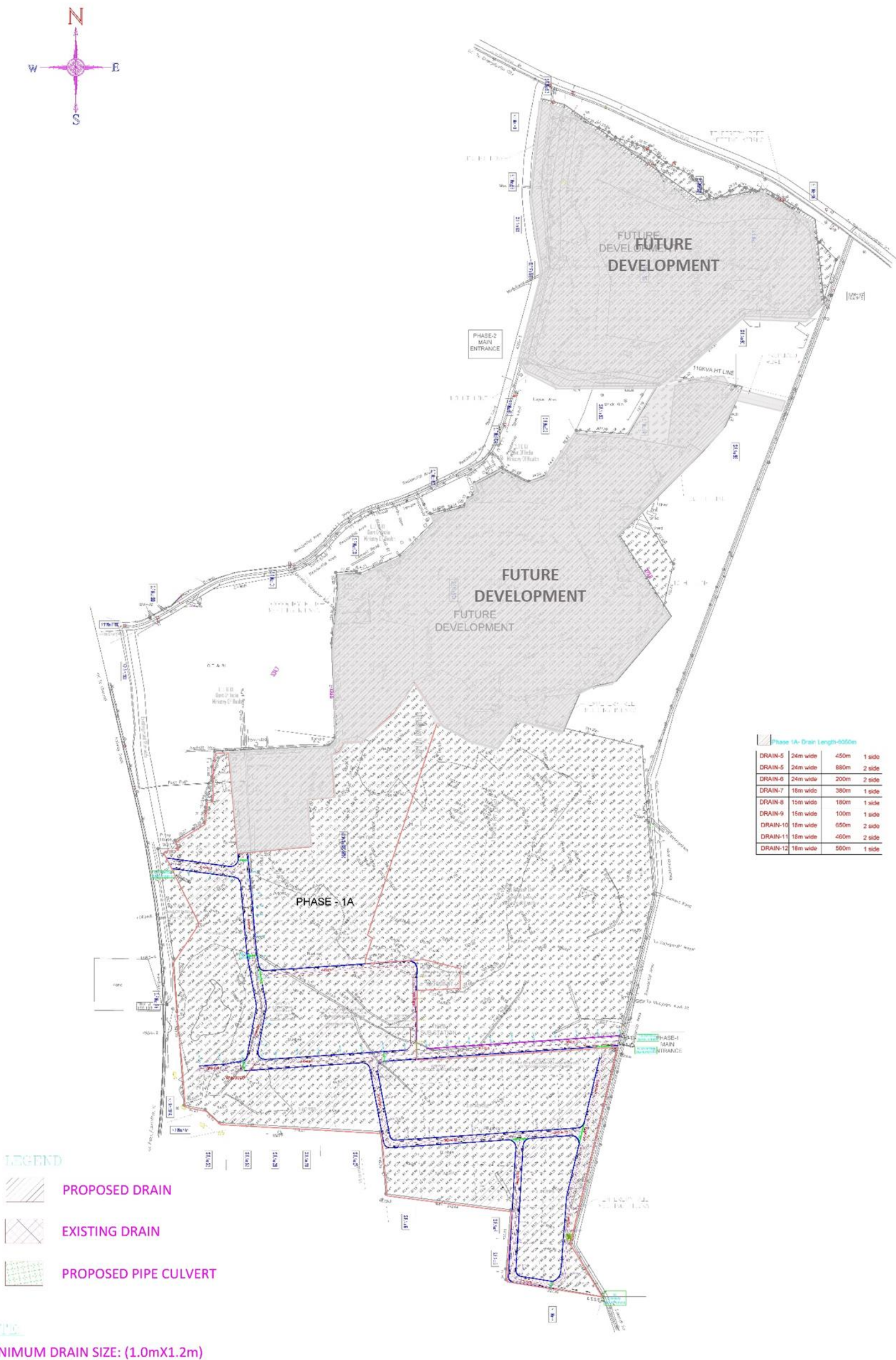


4. ROAD AND STORM WATER DRAIN NETWORK

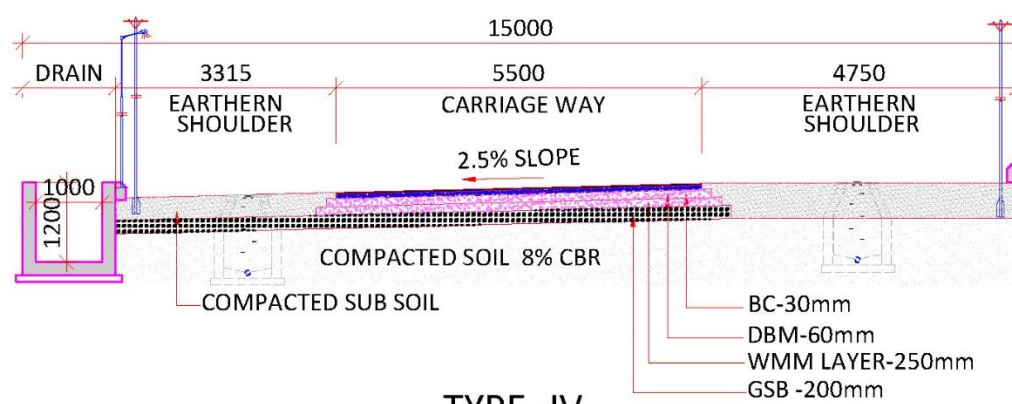
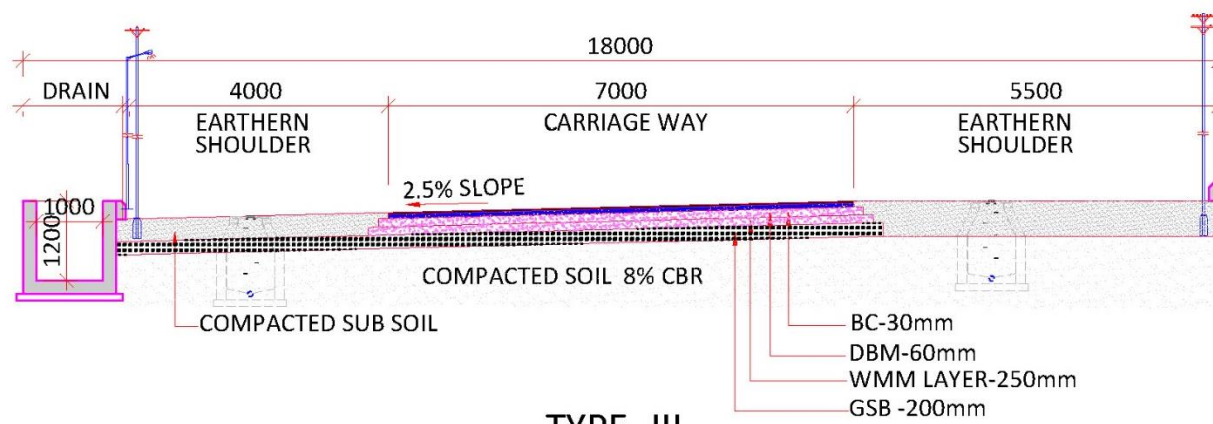
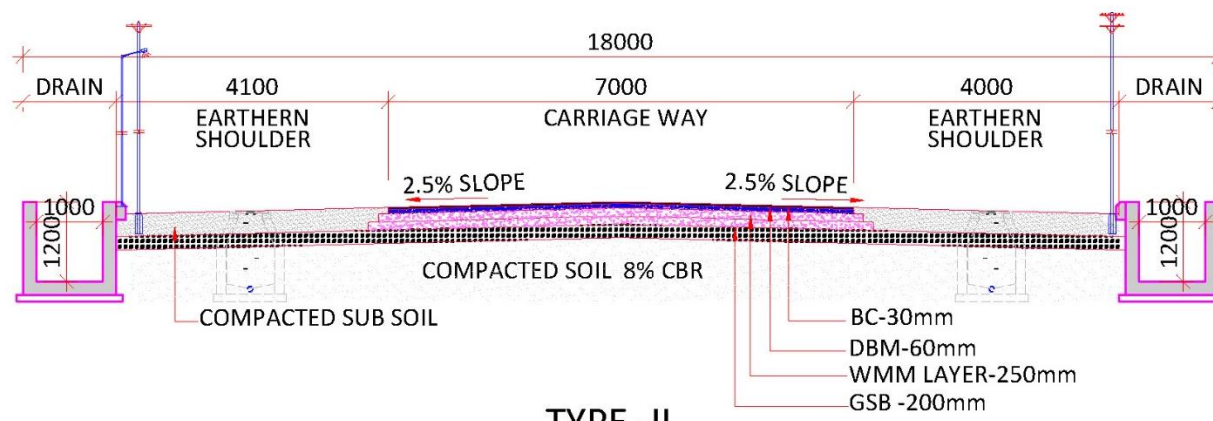
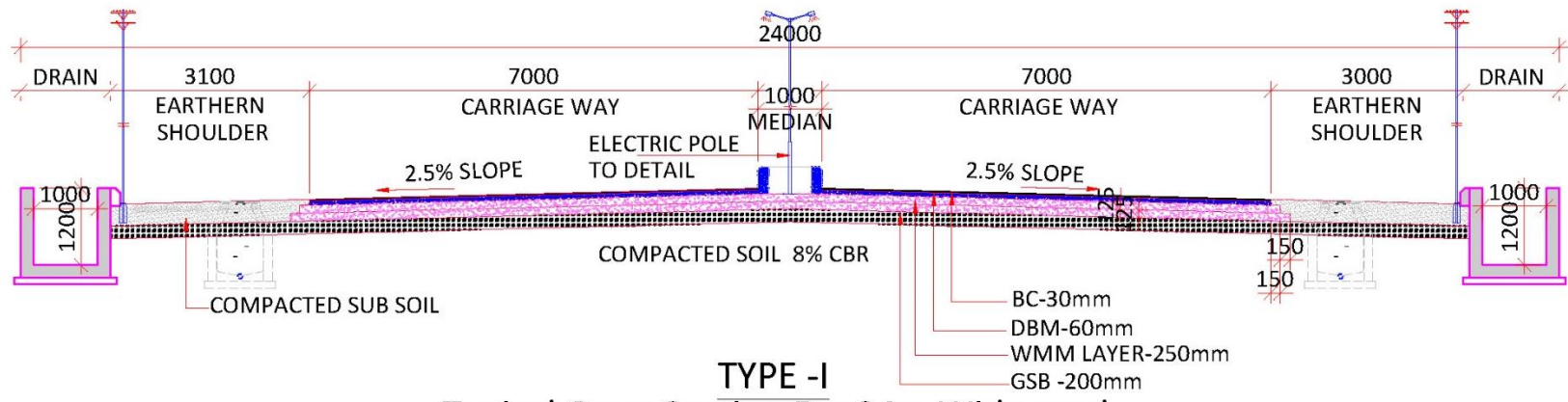
4.1. ROAD LAYOUT



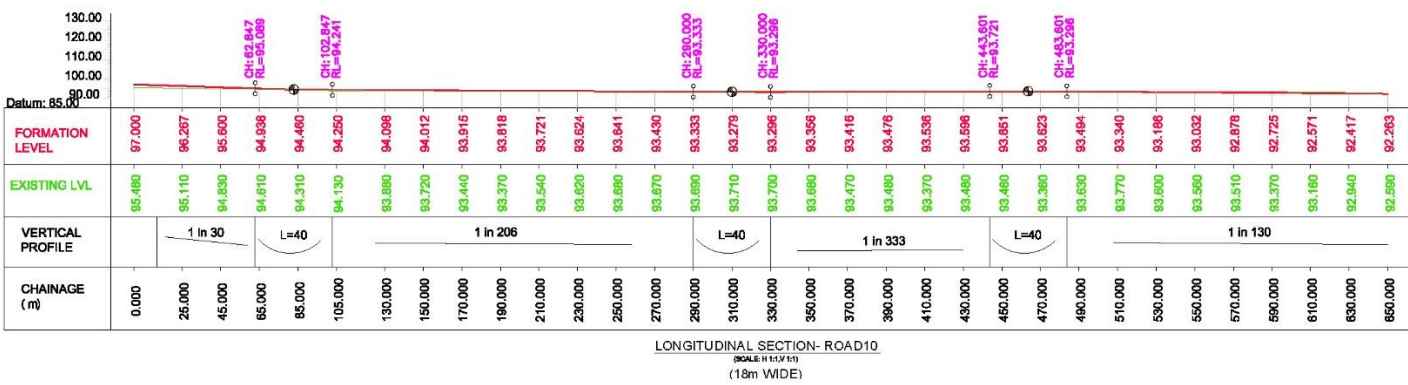
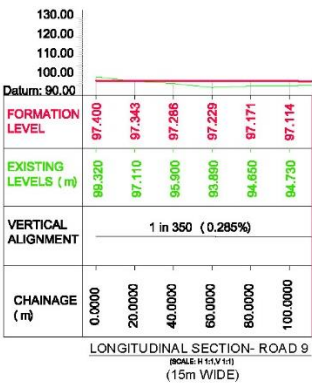
4.2. STORM WATER DRAIN LAYOUT



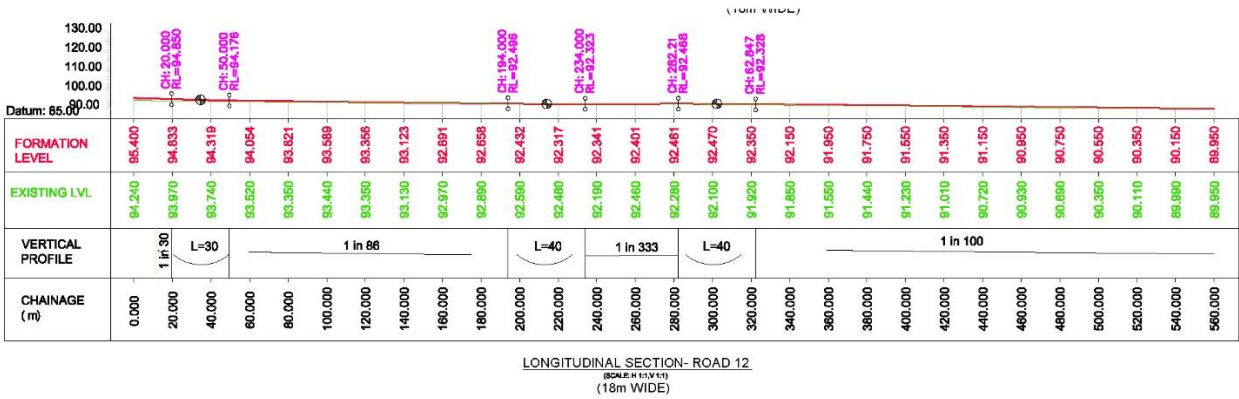
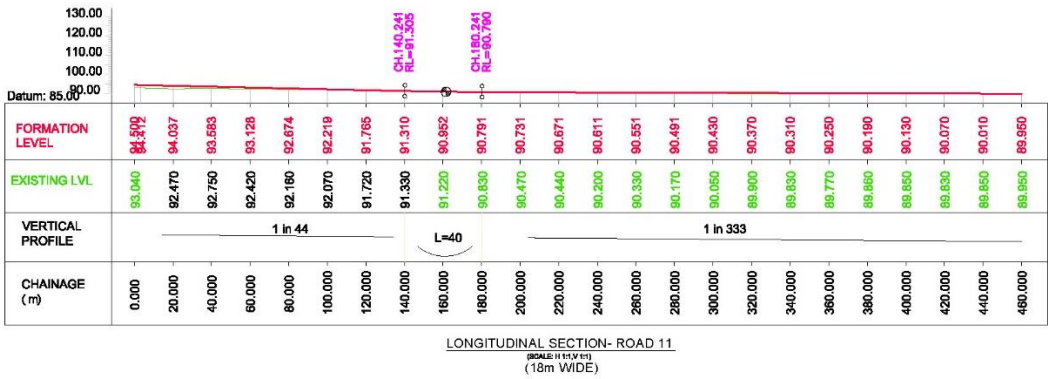
4.3. TYPICAL CROSS SECTION



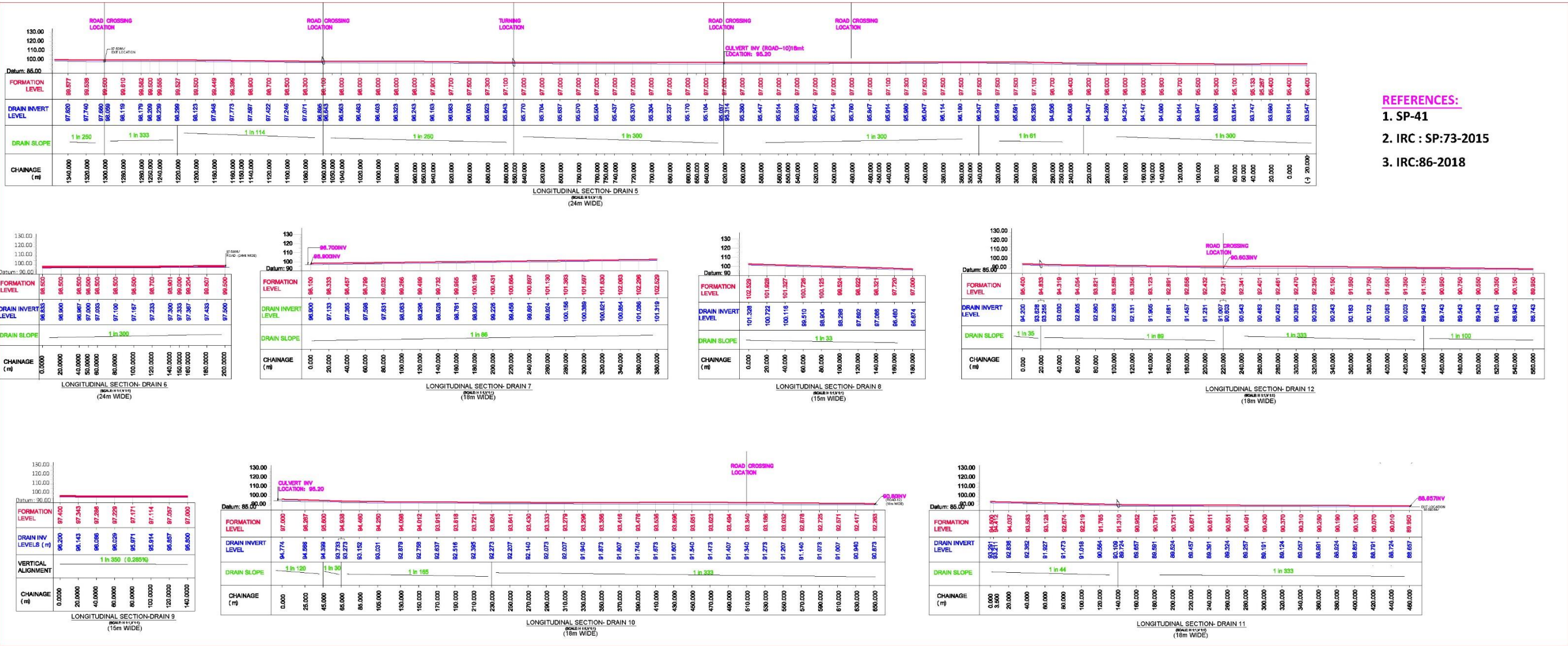
4.4. ROAD PROFILE



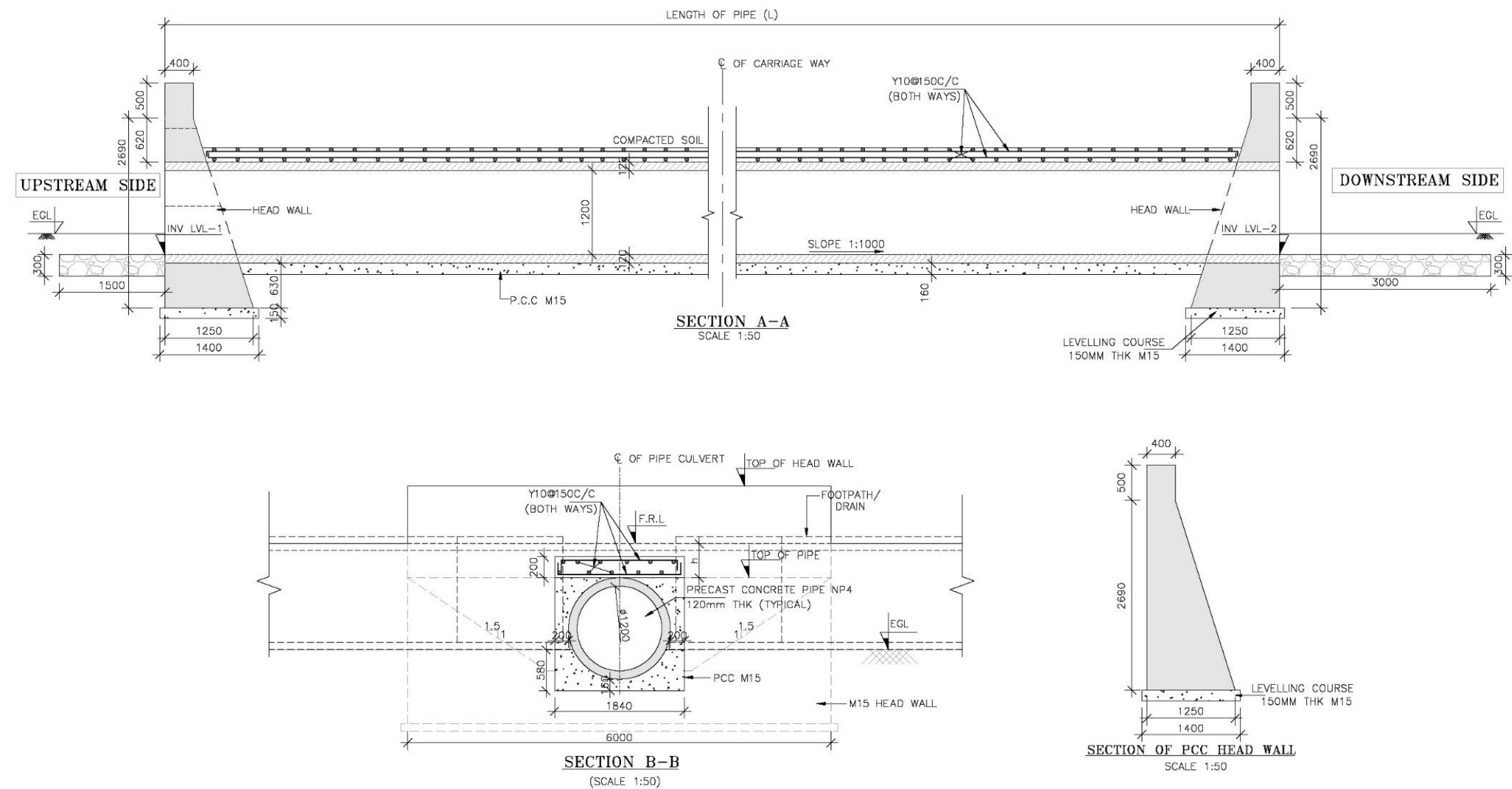
- REFERENCES:
1. SP-41
 2. IRC : SP:73-2015
 3. IRC:86-2018



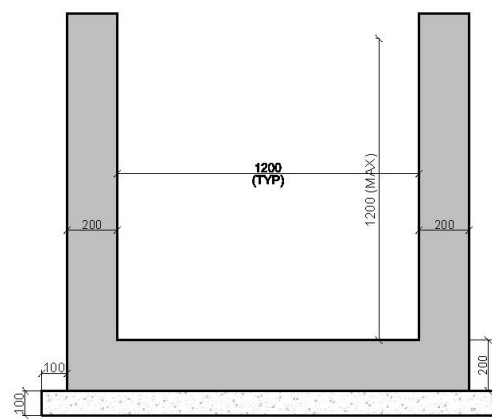
4.5. DRAIN PROFILE



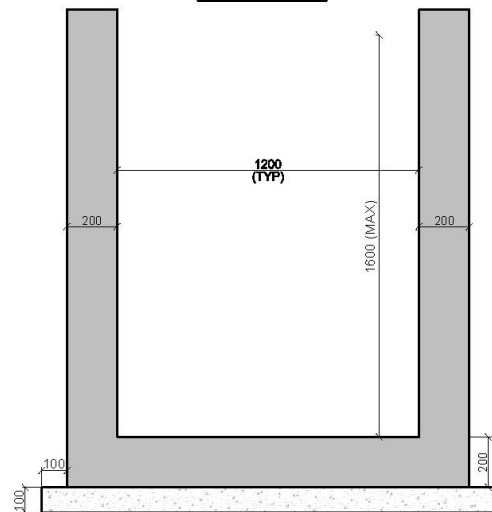
4.6. PIPE CULVERT DETAILS



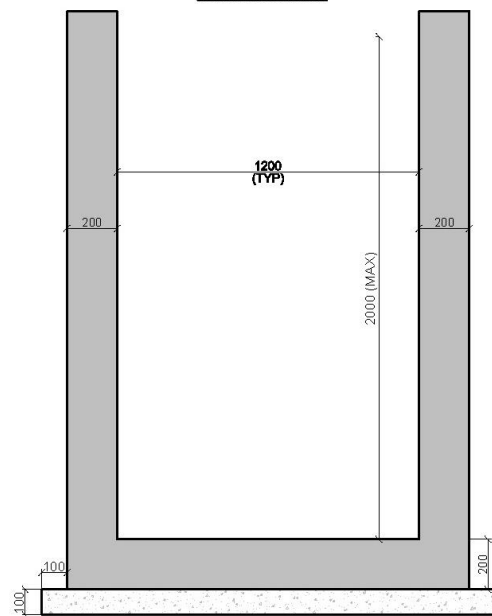
4.7. DRAIN CROSS SECTION DETAILS



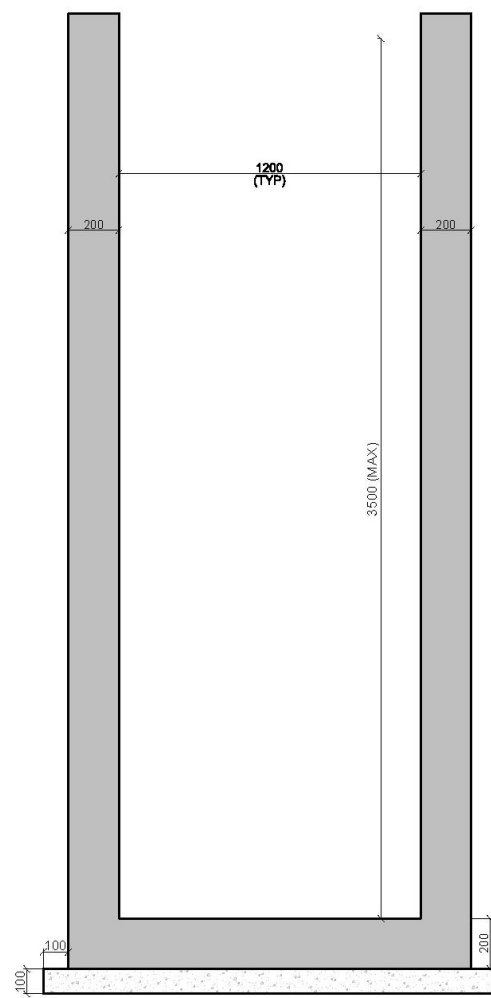
DRAIN WITH RC SLAB
(CONCRETE DIMENSION)



DRAIN WITH RC SLAB
(CONCRETE DIMENSION)



DRAIN WITH RC SLAB
(CONCRETE DIMENSION)

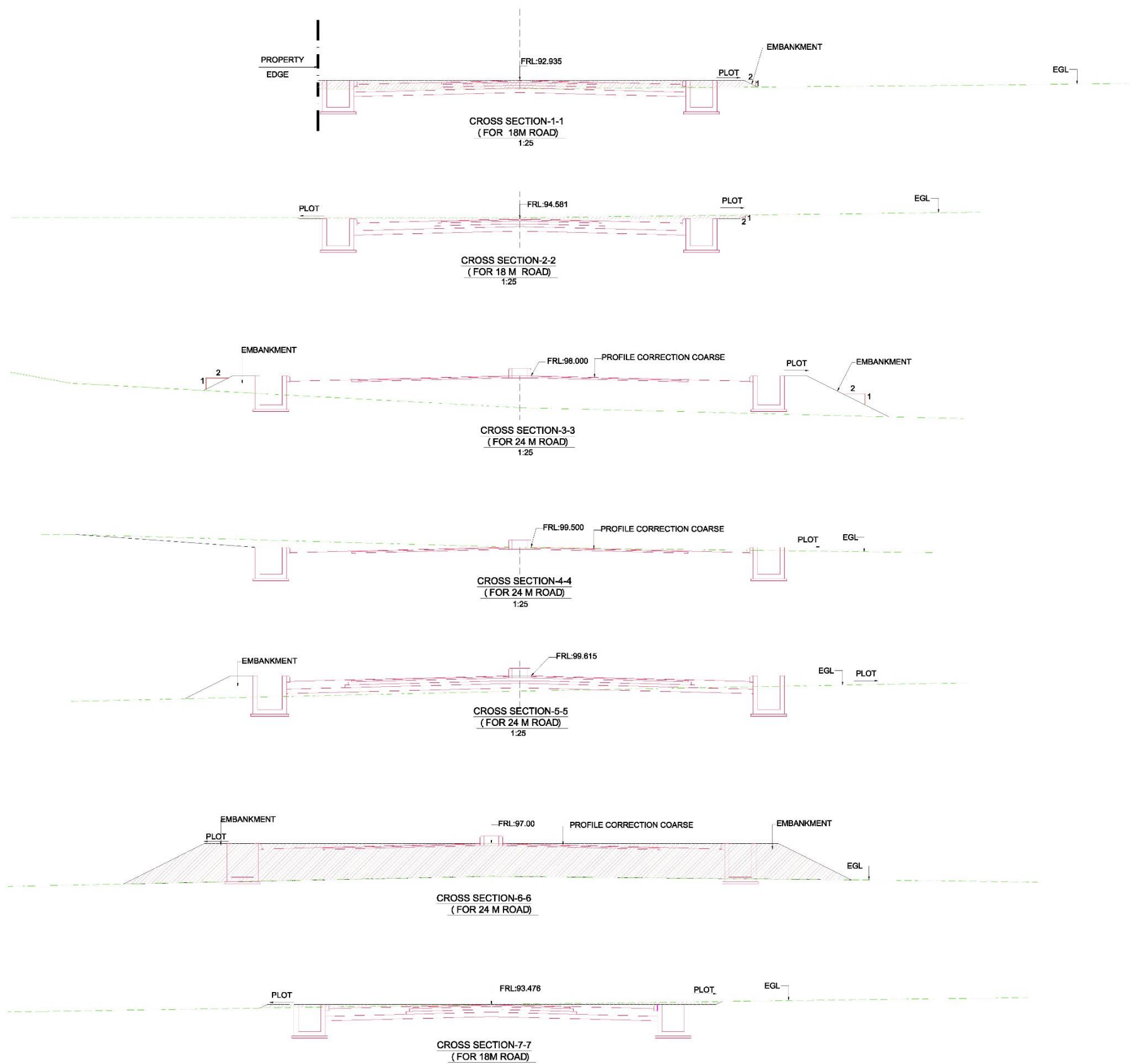


DRAIN WITH RC SLAB
(CONCRETE DIMENSION)

NOTE:

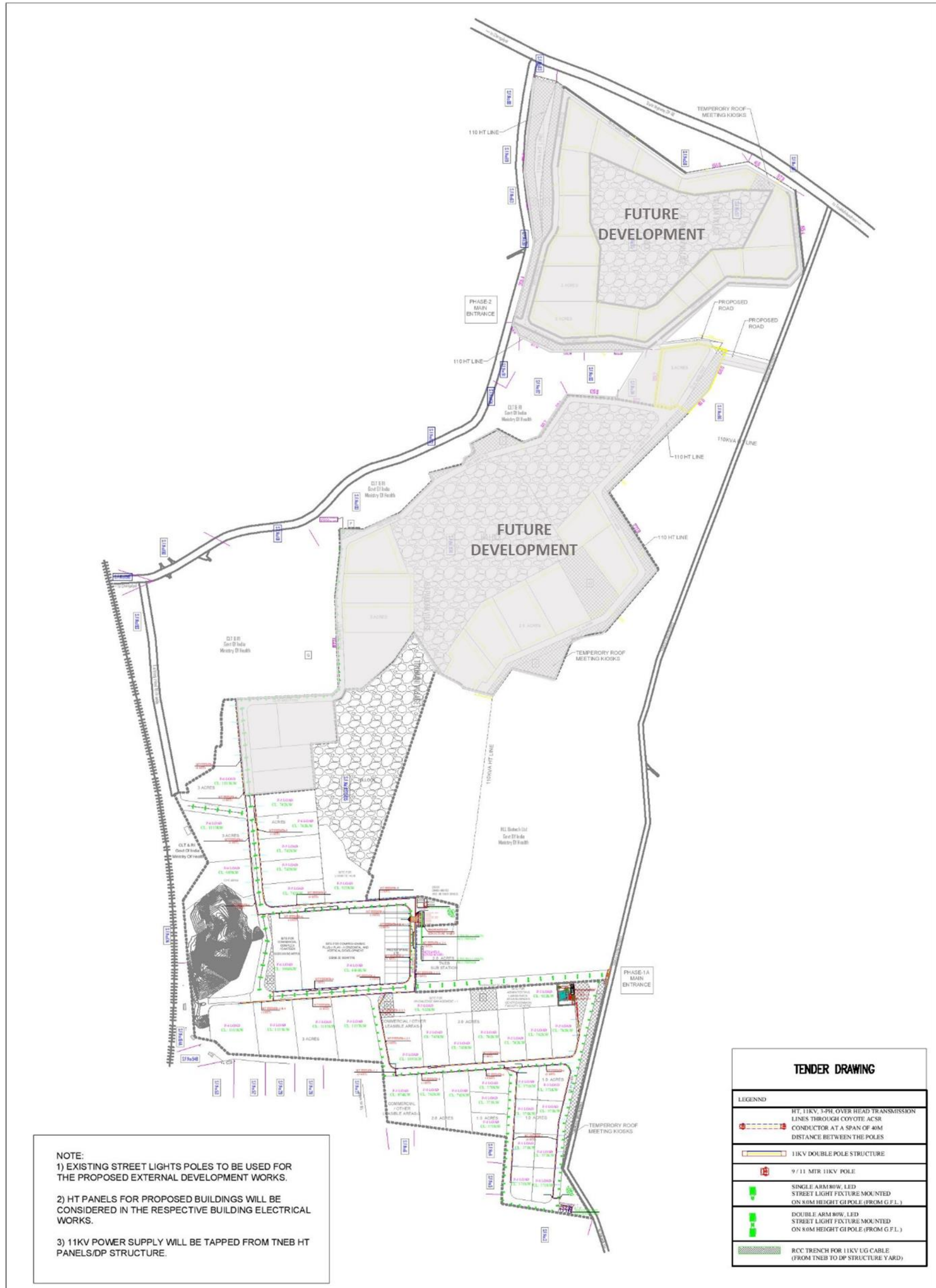
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED & ALL LEVELS AND CHAINAGES ARE IN METRES.
2. GRADE OF CONCRETE SHALL BE VIBRATED RCC M20
3. CLEAR COVER TO MAIN REINFORCEMENT :-
EARTH FACE = 75mm
OTHER FACE = 40mm
4. GRADE OF STEEL SHALL BE Fe-500

4.8. SITE GRADING DETAILS

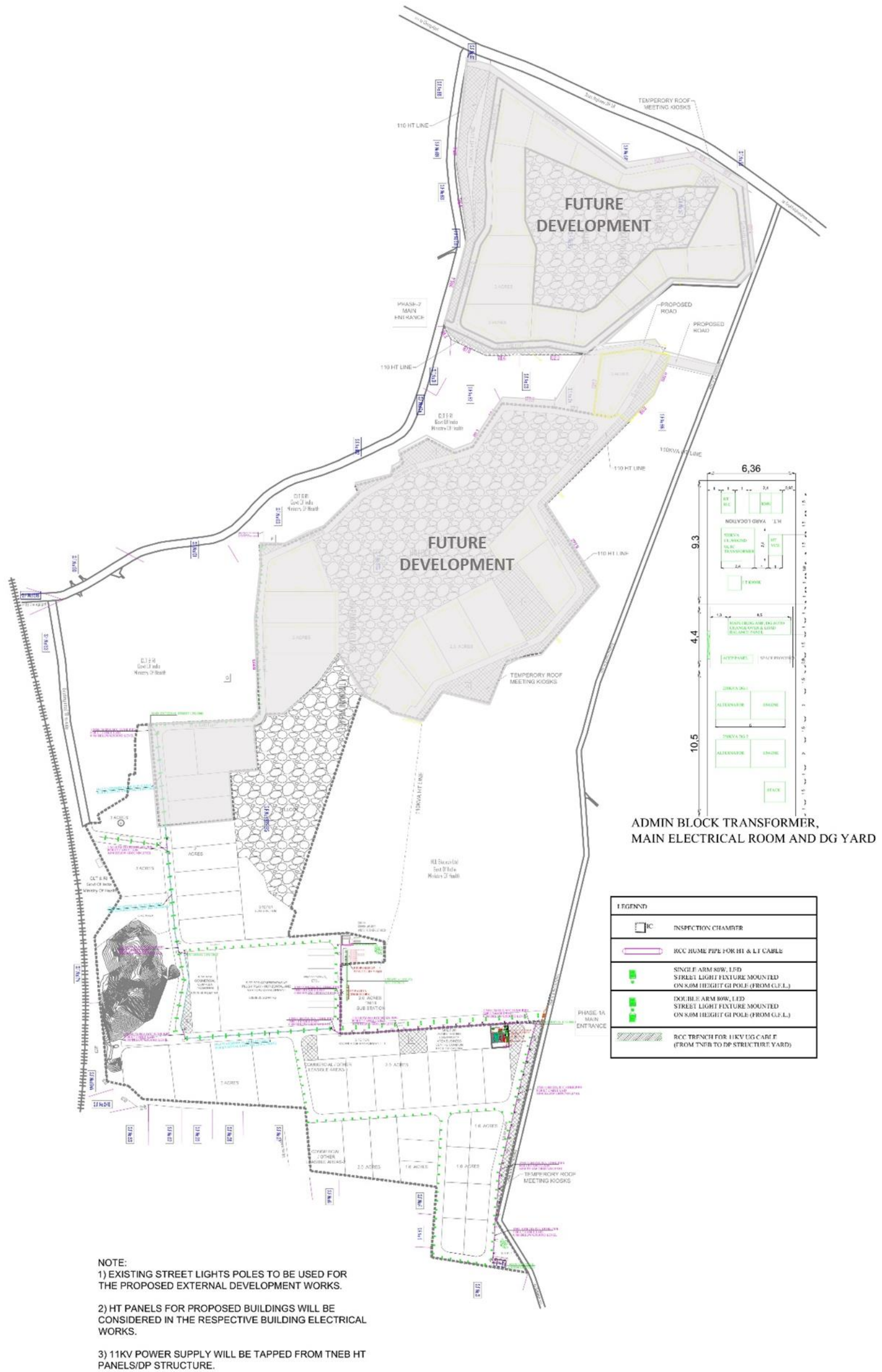


5. ELECTRICAL NETWORK

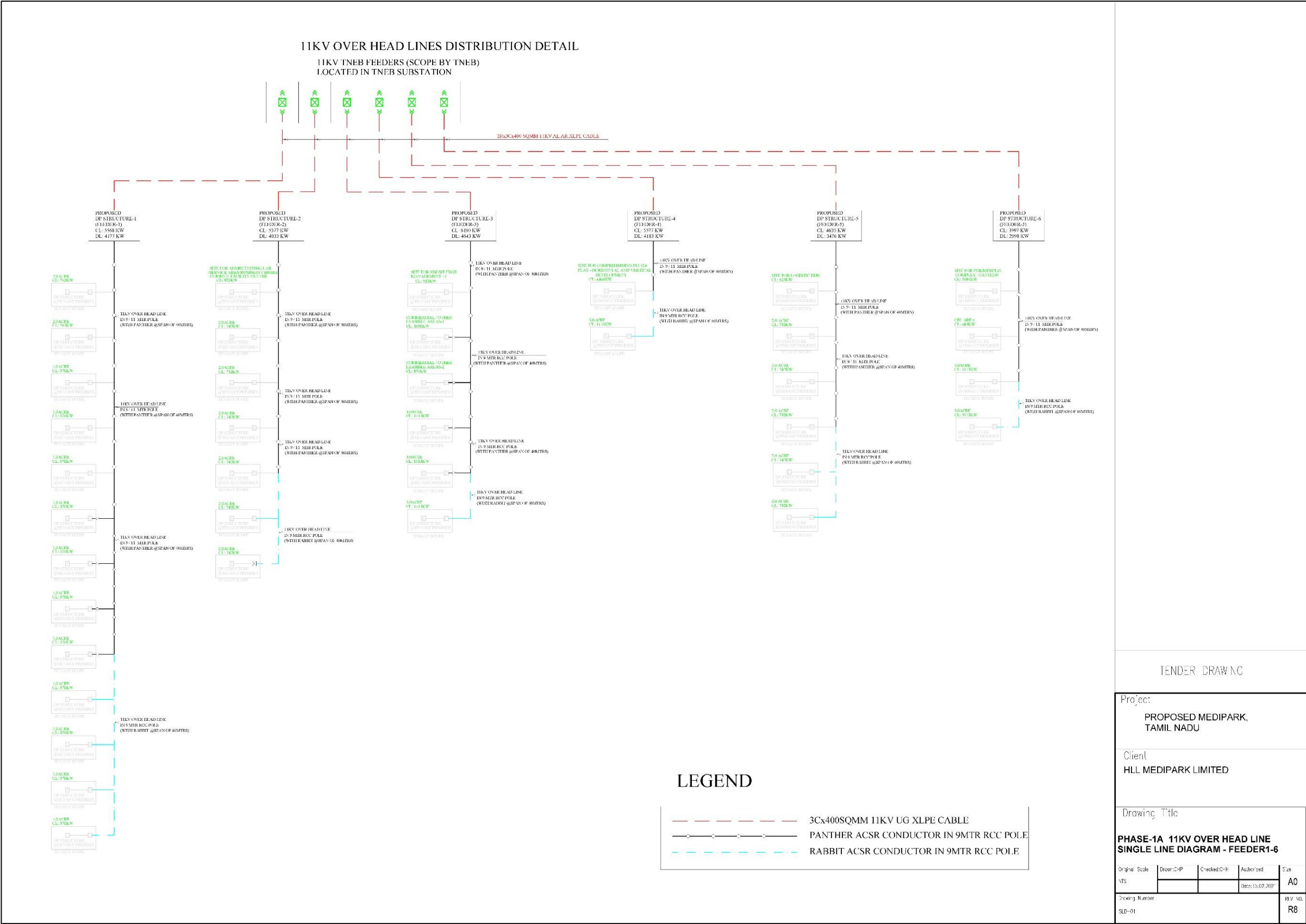
5.1. 11KV OVERHEAD LINES AND STREET LIGHTING LOCATION LAYOUT



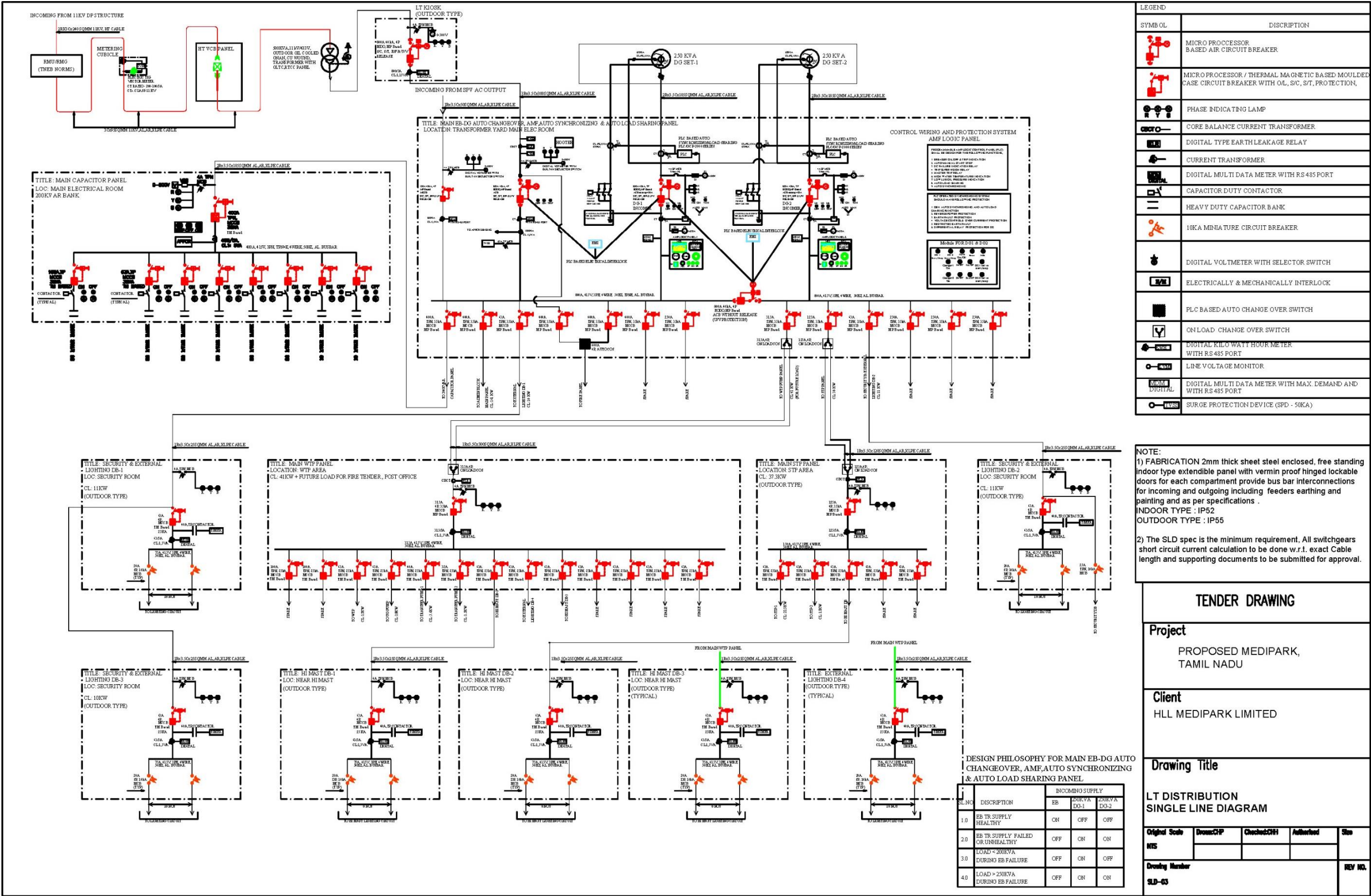
5.2. TRANSFORMER, DG, YARD, MAIN ELECTRICAL ROOM, LT UNDERGROUND CABLE ROUTING LAYOUT



5.3. 11KV OVER HEADLINES DISTRIBUTION DETAIL

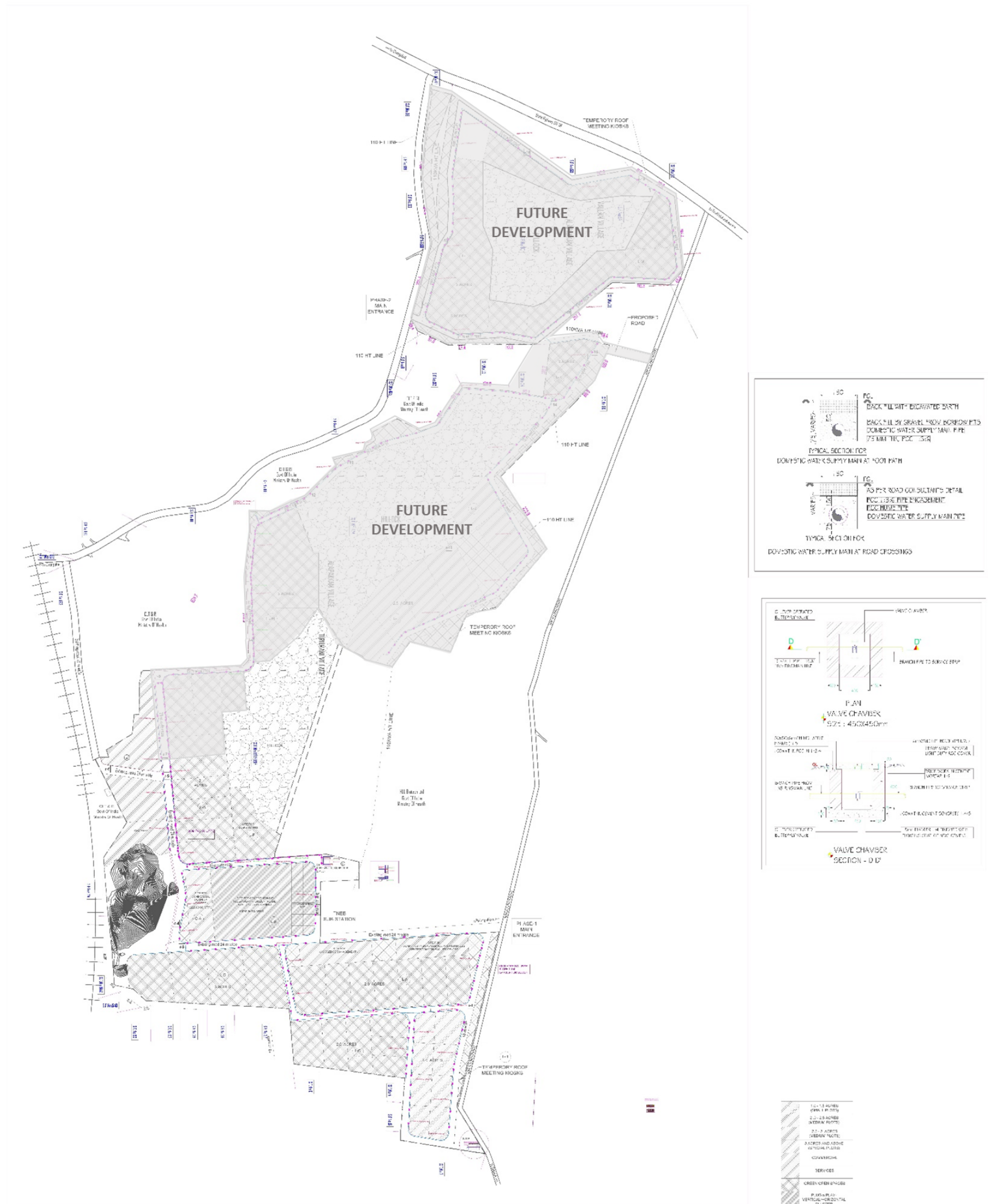


5.4. LT DISTRIBUTION SINGLE LINE DIAGRAM



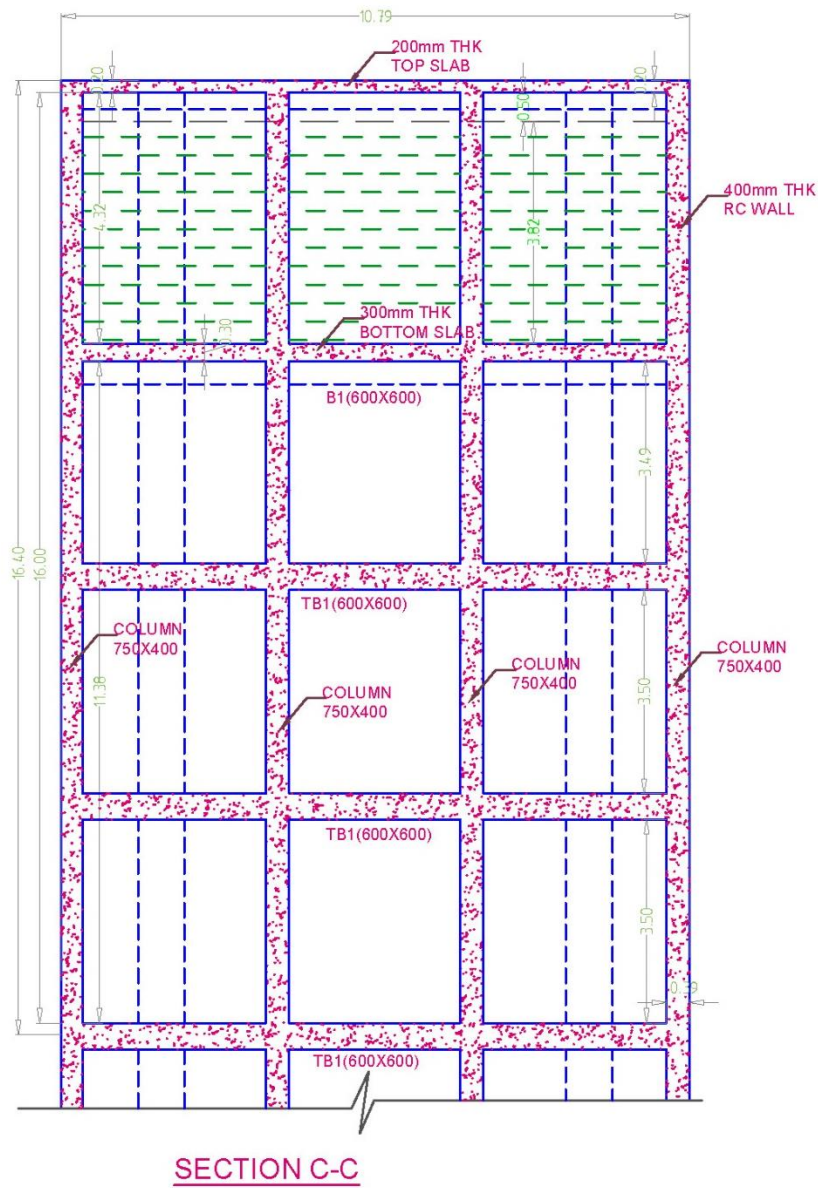
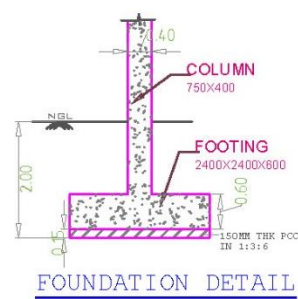
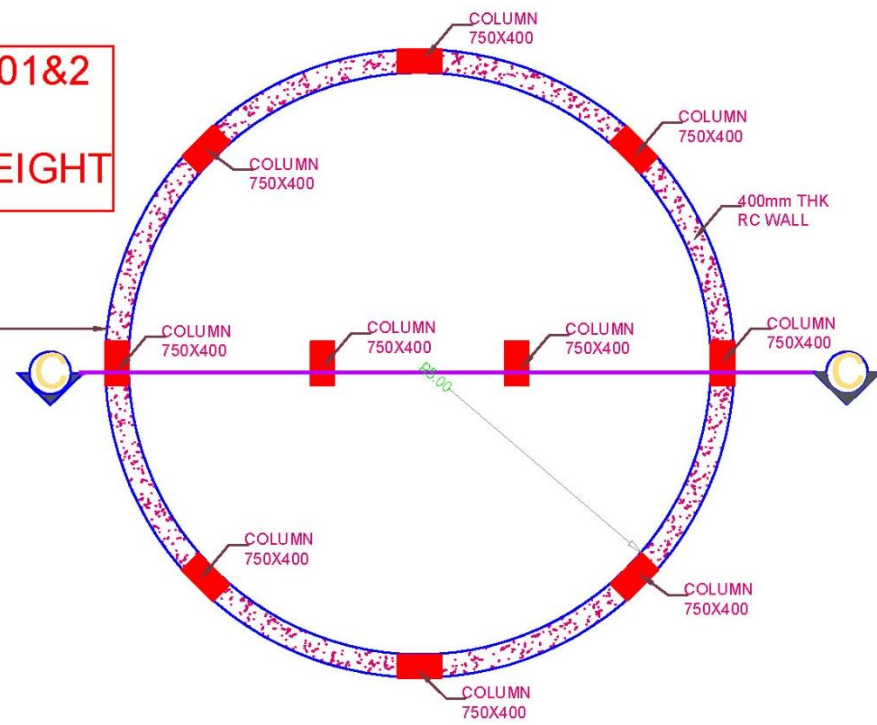
6. WATER SUPPLY SYSTEM

6.1. WATER SUPPLY NETWORK



6.2. OVERHEAD TANK – PLAN AND SECTION

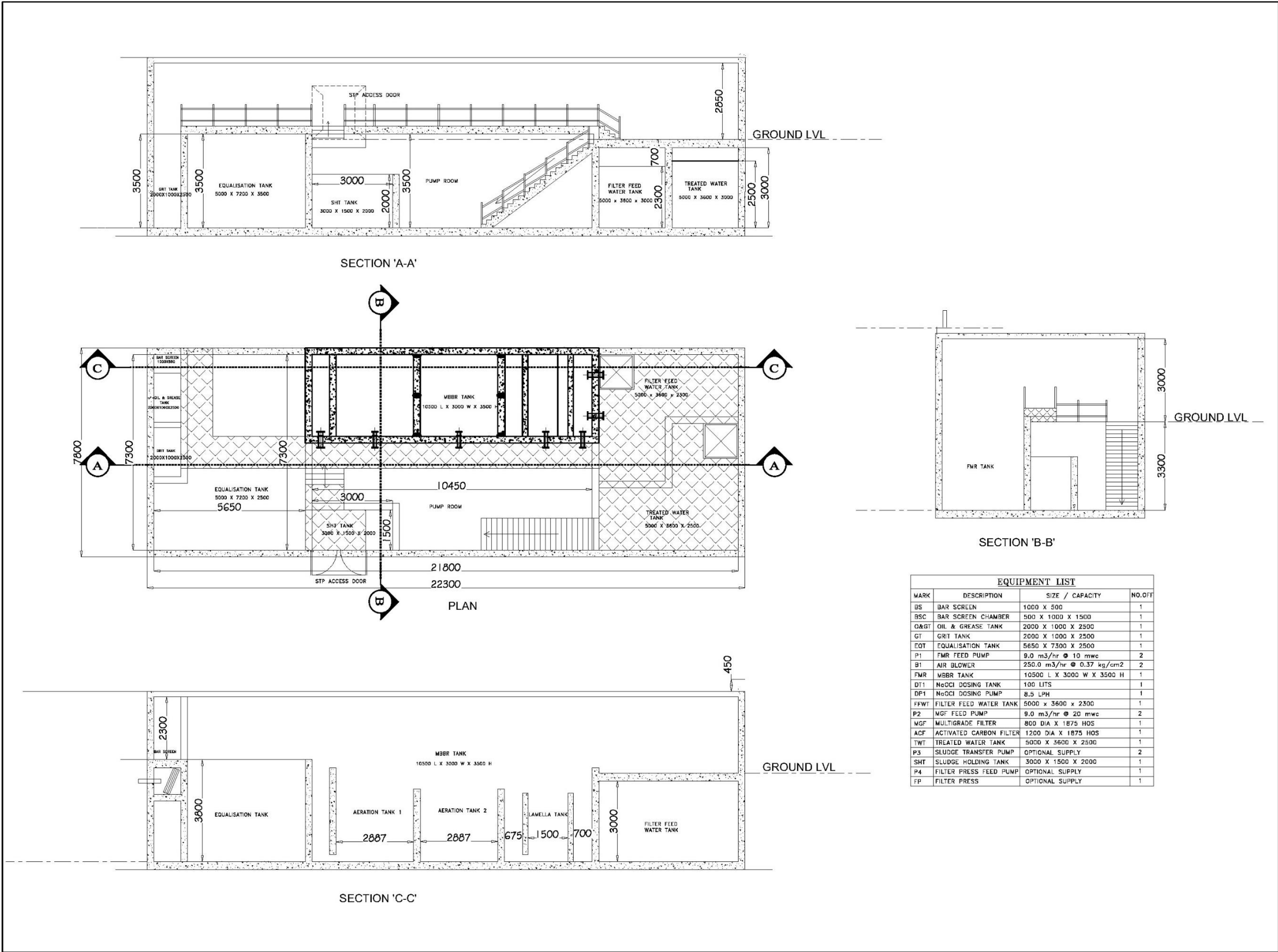
PROPOSED OHT FOR PHASE-01&2
CAP-3,00,000 LTS
CIRCULAR TYPE TANK-16m HEIGHT



The image contains two architectural drawings for a water treatment facility:

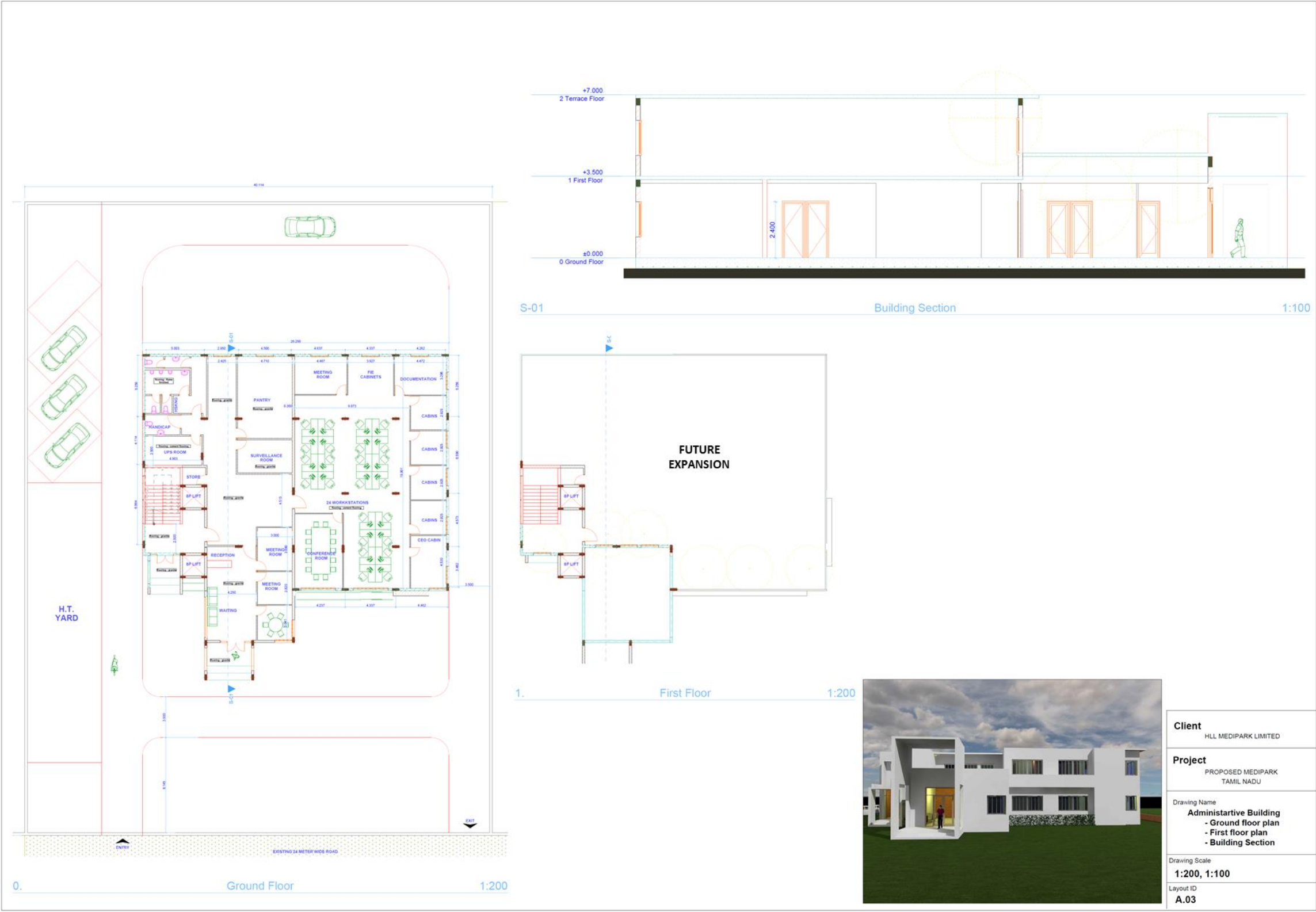
- PLAN:** A top-down view of the facility. It shows a large rectangular area divided into several sections. On the left is the "PROPOSED RAW WATER TANK" with a capacity of 9,00,000 LTS and dimensions 20m x 18m x 2.5m + 0.300FB. On the right is the "PROPOSED TREATED WATER TANK" with a capacity of 3,00,000 LTS and dimensions 20m x 6m x 2.5m + 0.300FB. Between them is the "PROPOSED PUMP ROOM ABOVE SUMP" with dimensions 10m x 8m x 2.8m-HIGHT. The plan includes various structural details like beams (400x750, 250x600), columns (250x450), and walls (250mm THK RCC). Dimensions are given in meters, with a total width of 24.6m and a total length of 24.2m.
- SECTION-A-A:** A cross-sectional view of the facility. It shows the vertical arrangement of the tanks and the pump room. The raw water tank is on the left, followed by the pump room above the sump, and the treated water tank on the right. The section shows the 2.8m height of the pump room, the 2.5m depth of the tanks, and the 0.3m freeboard. It also shows the structural details of the slabs (200mm THK TOP SLAB, 200mm THK BOTTOM SLAB), beams, and walls. The natural ground level is indicated on the left.

7.2. STP – PLAN AND SECTION

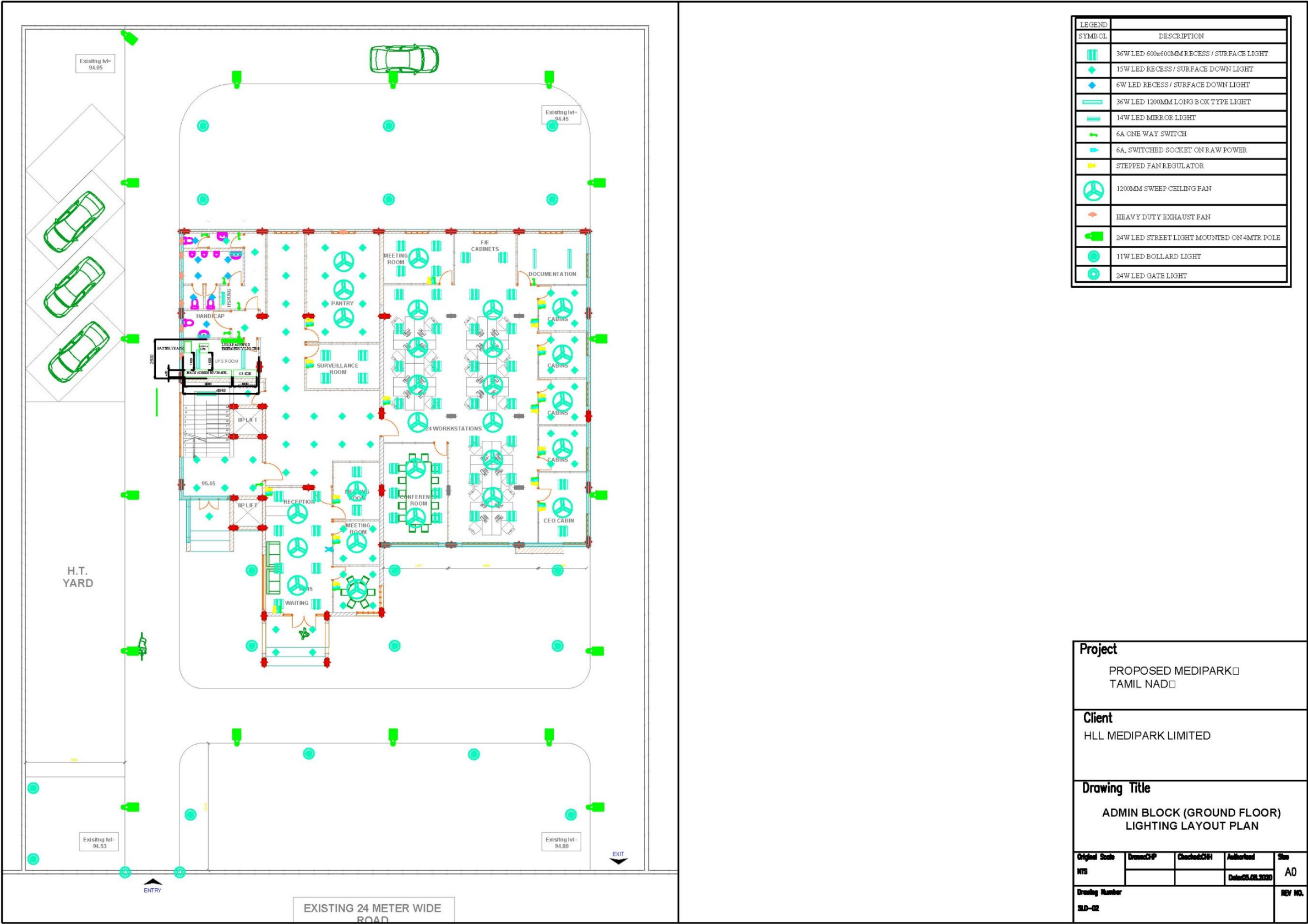


8. ADMINISTRATIVE BUILDING

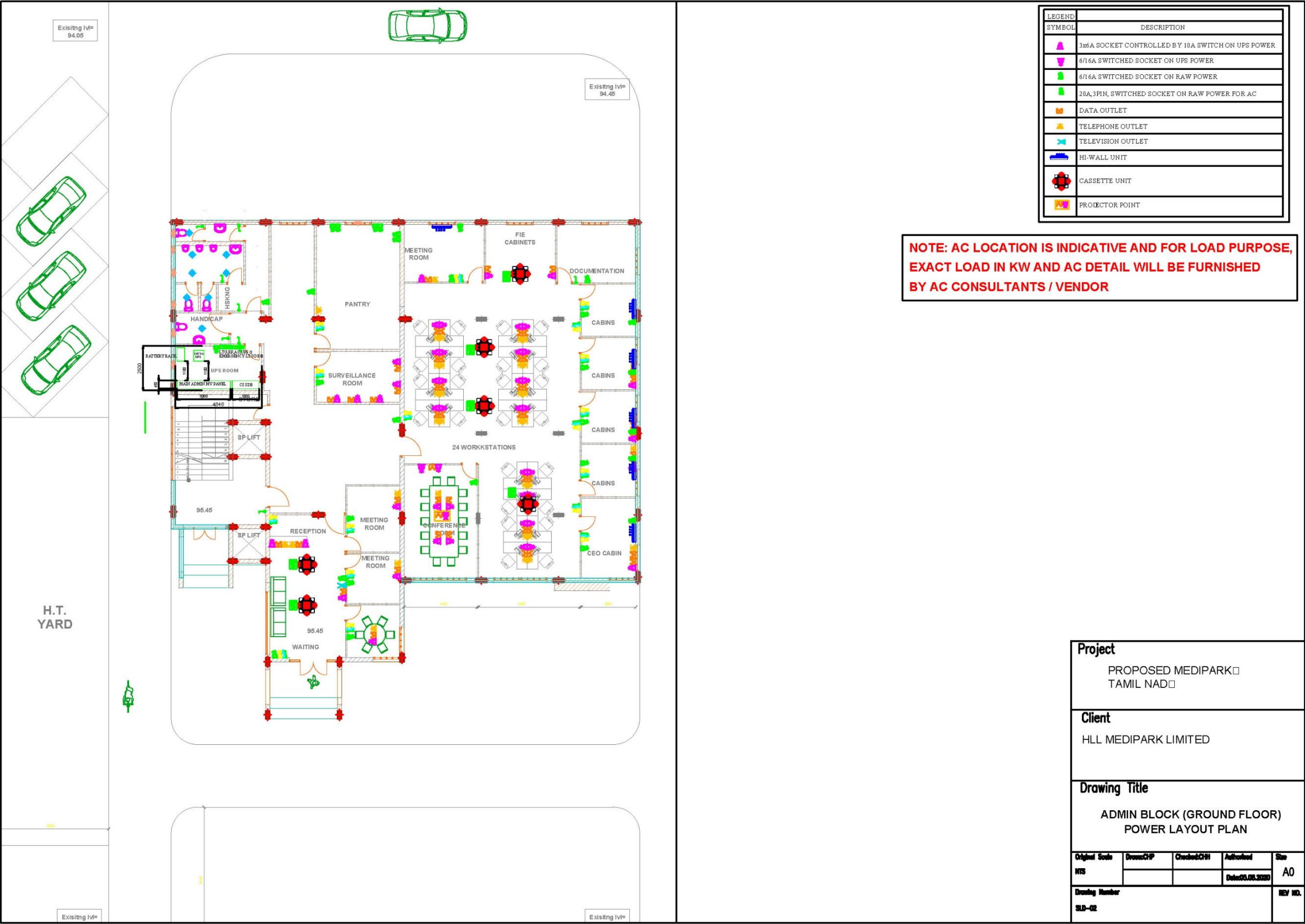
8.1. ADMINISTRATIVE BUILDING - PLAN AND SECTION



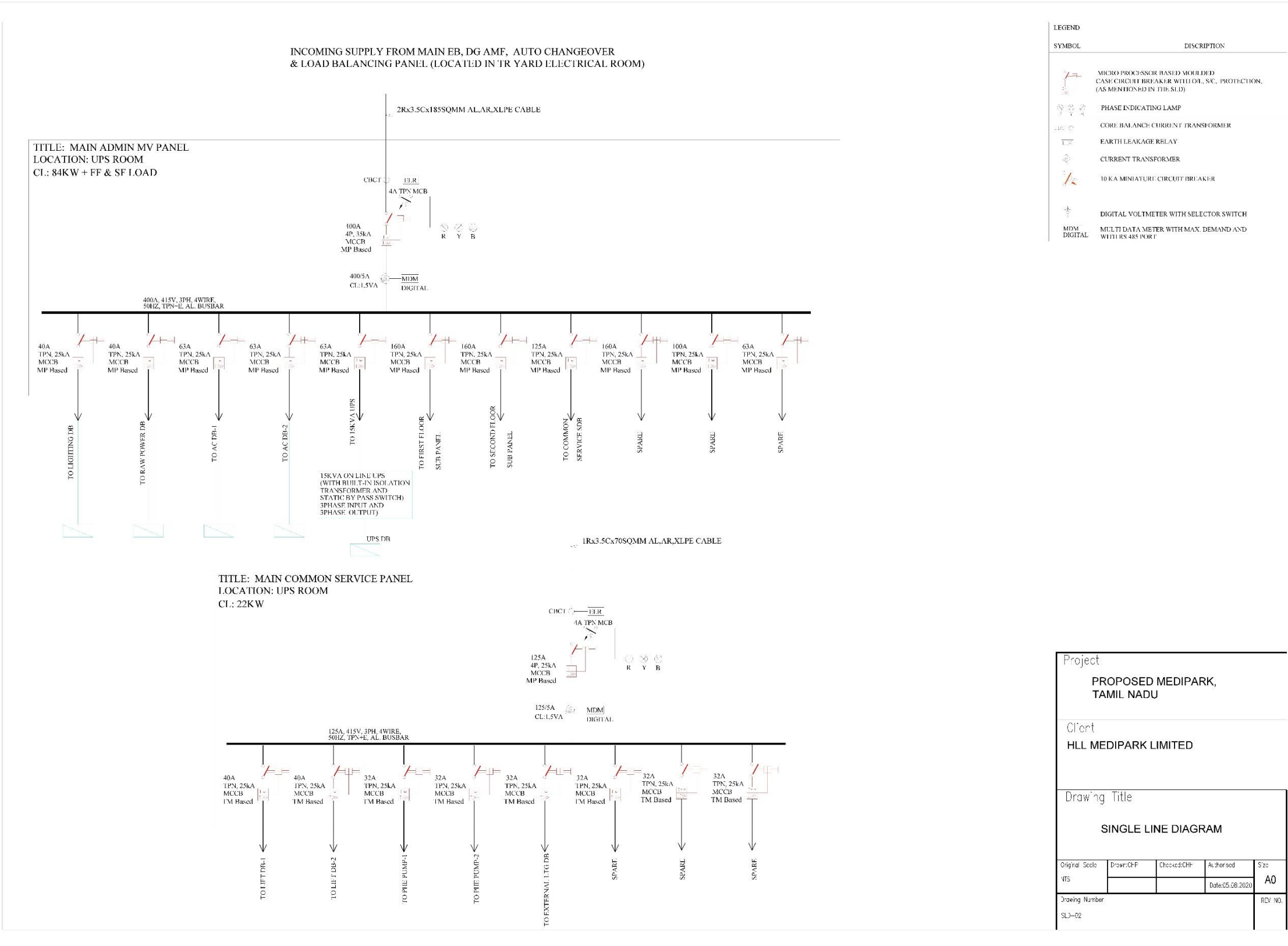
8.3. ADMINISTRATIVE BUILDING – LIGHTING LAYOUT



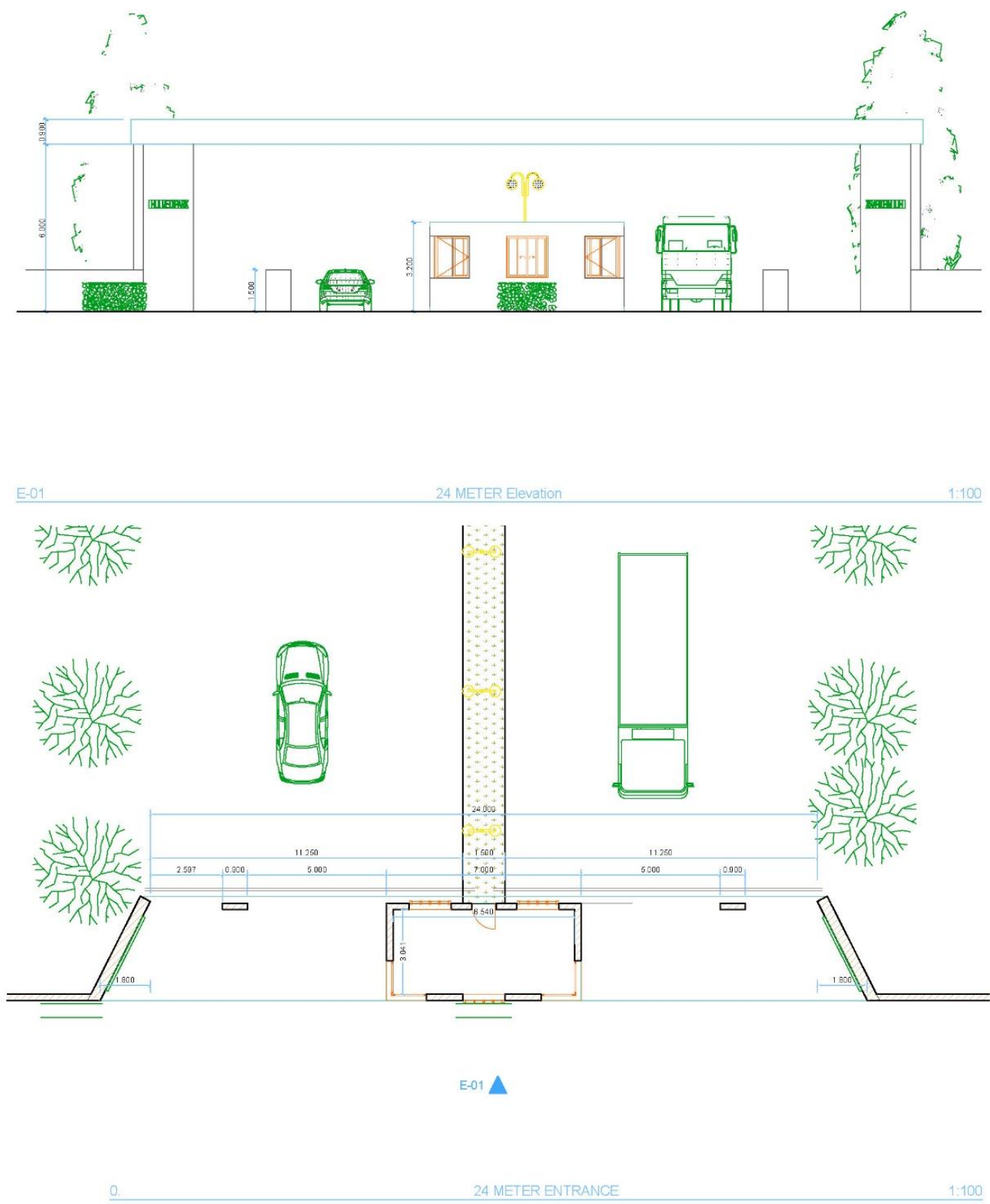
8.4. ADMINISTRATIVE BUILDING – POWER LAYOUT



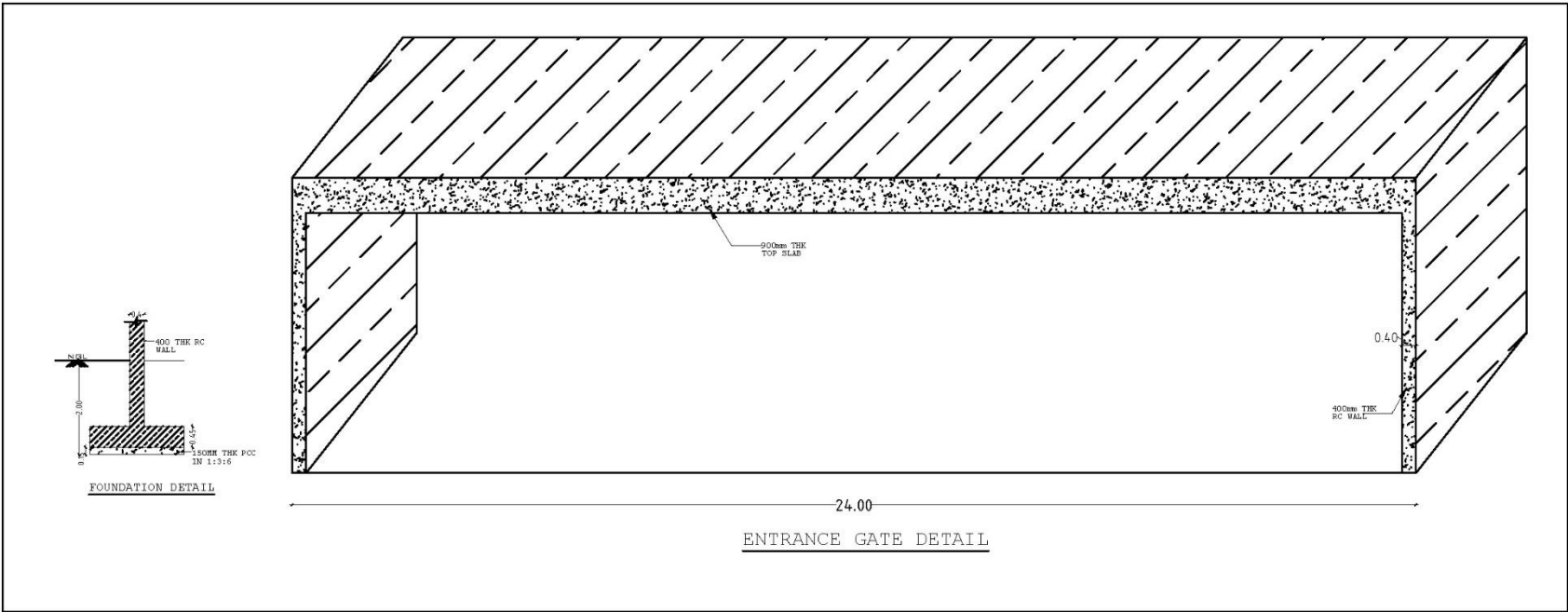
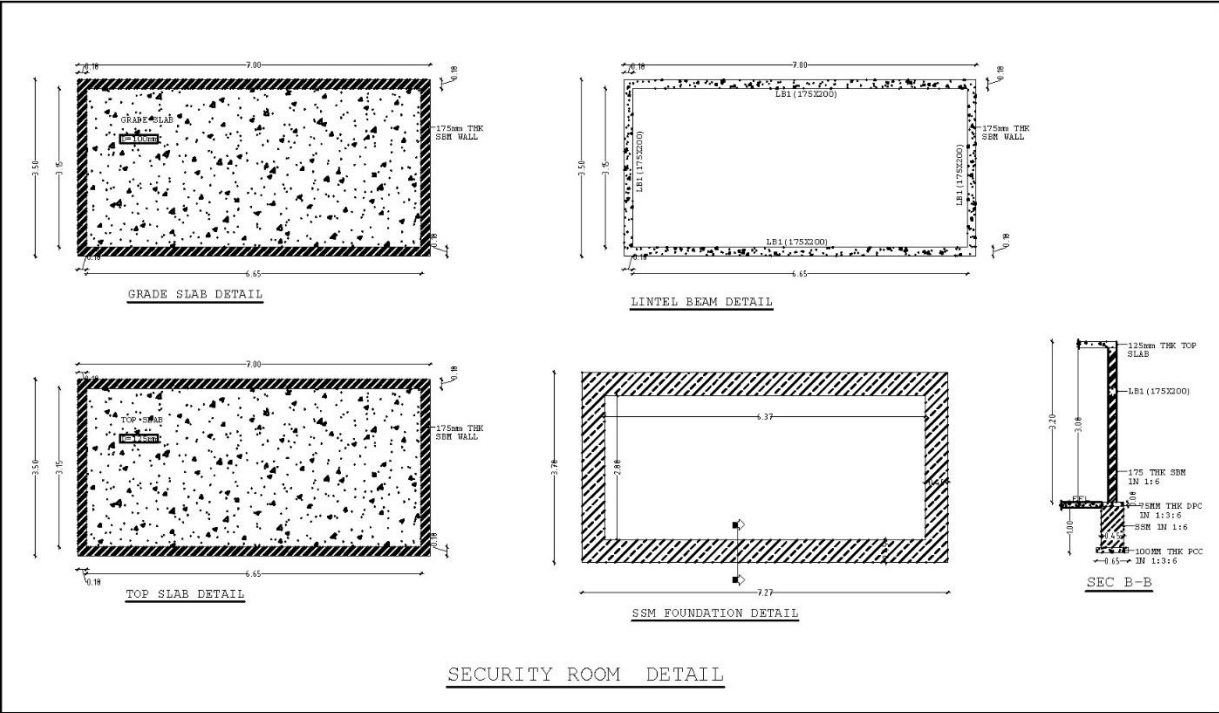
8.5. ADMINISTRATIVE BUILDING – SINGLE LINE DIAGRAM

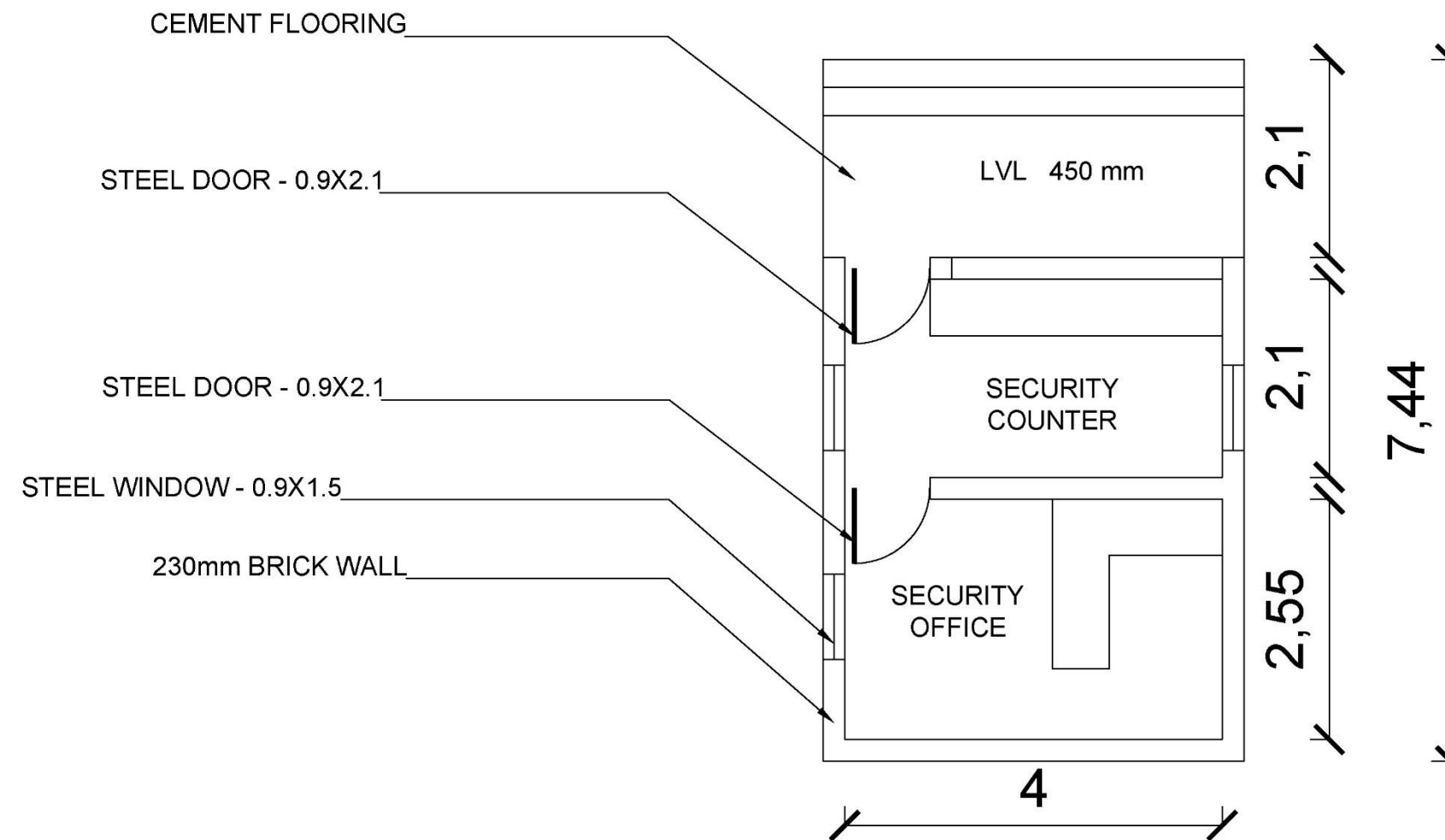


9. ENTRANCE GATE AND SECURITY ROOM
9.1. ENTRANCE GATE – PLAN AND ELEVATION



9.2. ENTRANCE GATE AND SECURITY ROOM – STRUCTURAL DETAILS



9.3. SECURITY ROOM – PLAN

9.4. SECURITY ROOM – STRUCTURAL DETAILS

