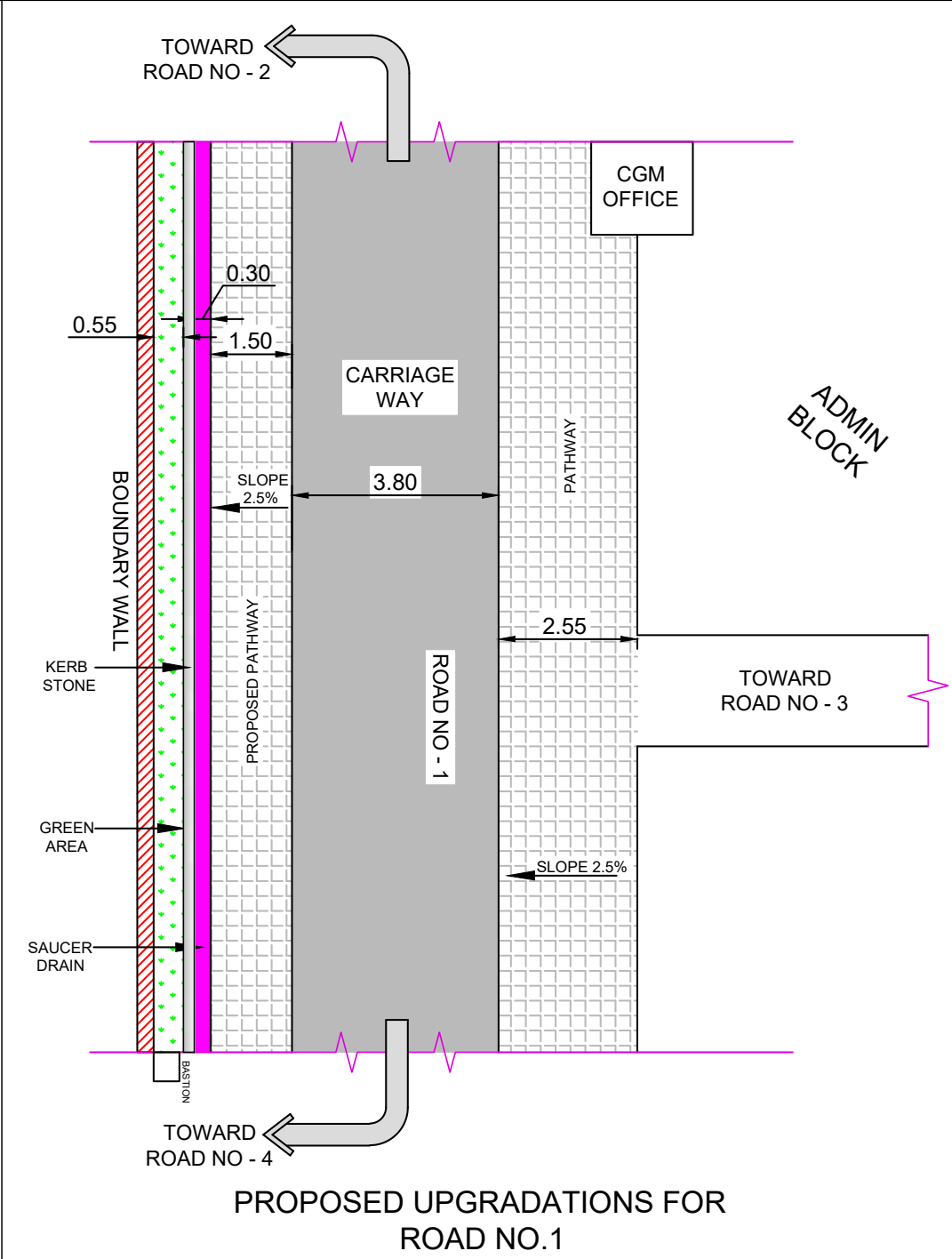
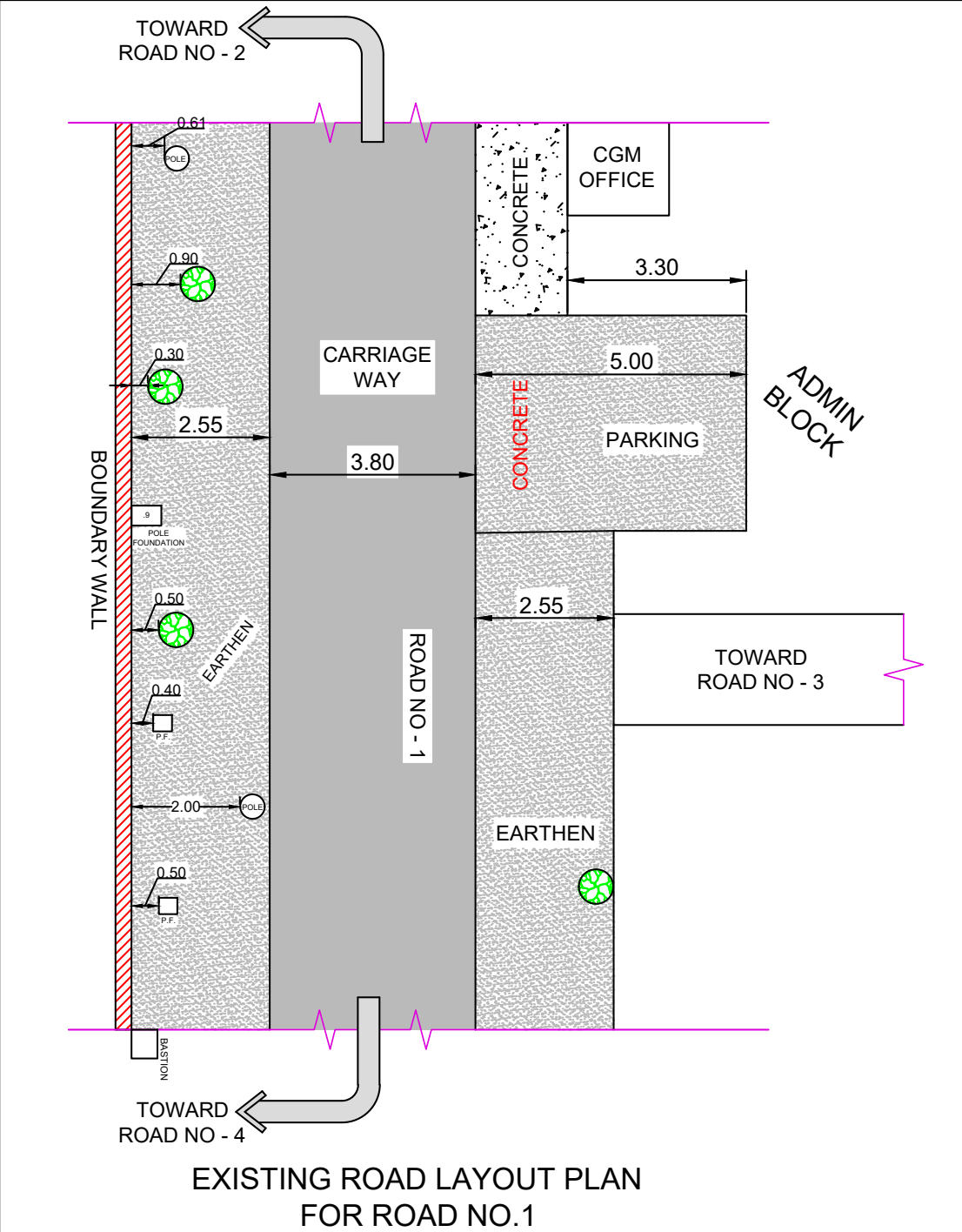




This drawings is only for Tender Purpose

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CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE		
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA		
DRAWING	DRONE SURVEY WITH ELEVATION LEVELS & CONTOURS		
SCALE	NTS	DATE	23-01-2025
DRAWN	NITESH JAIN	CHECKED	APPROVED
		AJAY RATHORE	
DRG. NO :	RD/MH/AMBRT/02	REVISIONS	
		0	



KEY PLAN :-

LEGEND	DESCRIPTION
	BOUNDARY WALL
	SAUCER DRAIN
	GREEN AREA
	KERB STONE
	CARRIAGE WAY
	PATHWAY

SUBMITTED BY
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CLIENT

ARMOURED VEHICLES NIGAM LIMITED
A GOVERNMENT OF INDIA ENTERPRISE,
MINISTRY OF DEFENCE

PROJECT
COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA

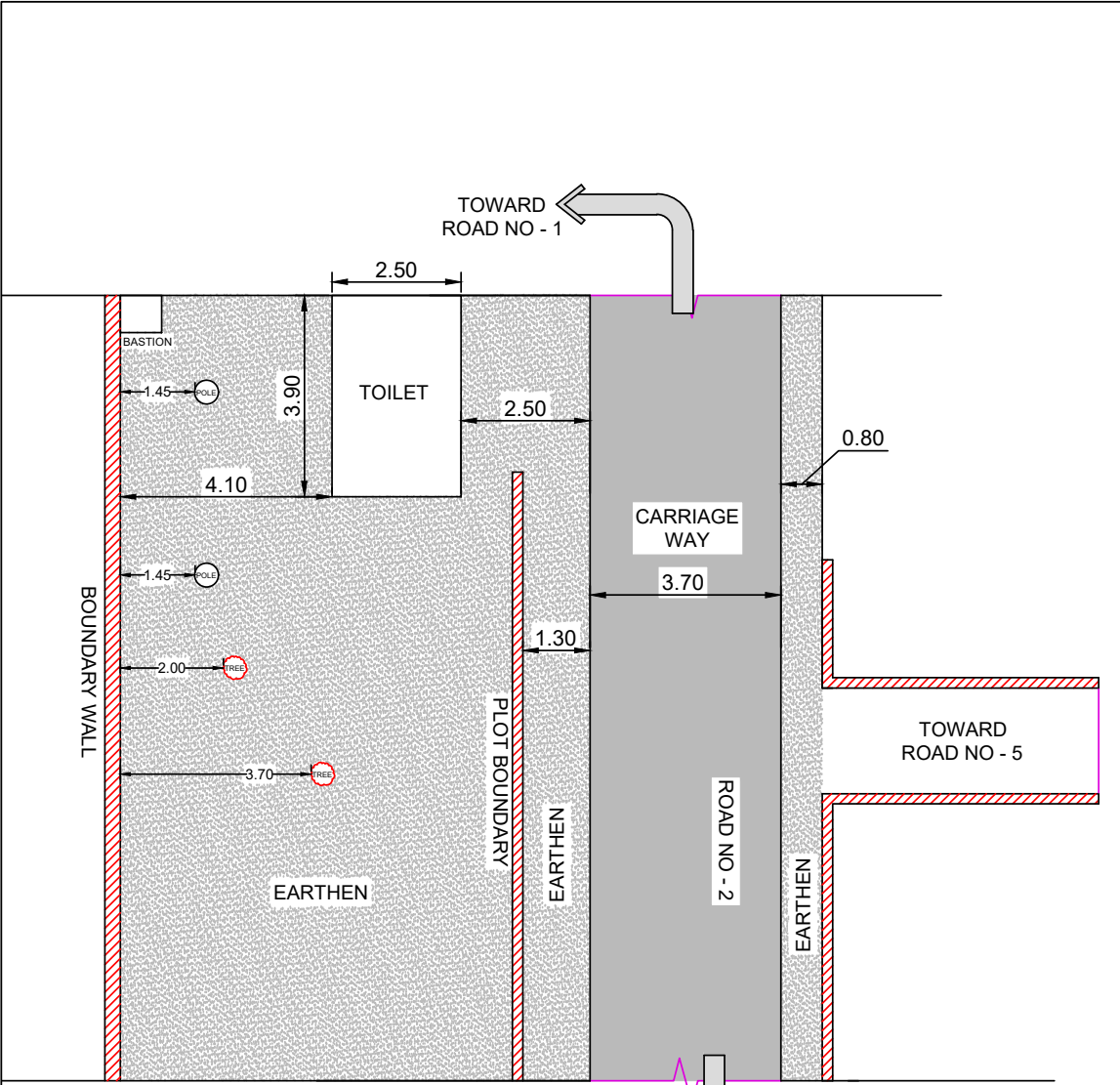
DRAWING
TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-01

SCALE	NTS	DATE	23-01-2025
DRAWN NITESH JAIN	CHECKED AJAY RATHORE	APPROVED	

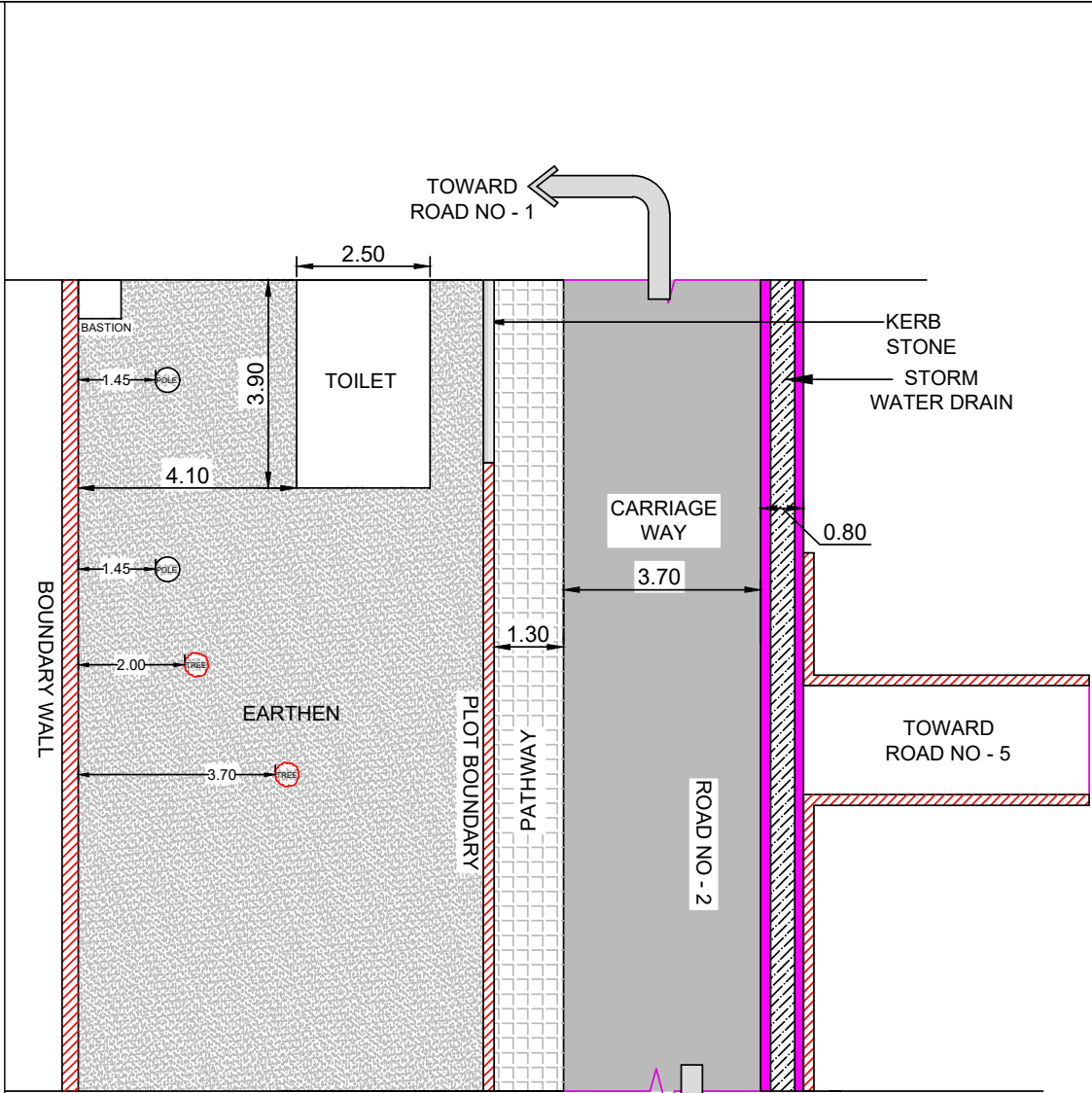
DRG. NO :	RD/MH/AMBRT/03	REVISIONS
		0

Road No. - 1		Services Upgradations	
Road Upgradation			
Road Length (m)	75	Saucer Drain	One Side
Existing Carriage Way (m)	3.8	Drain Section	N/A
Proposed Carriage Way (m)	3.8	Sewer	N/A
Kerb Stone	One Side	Water Supply	N/A
Pathway (m)	Both Side (60 mm)		

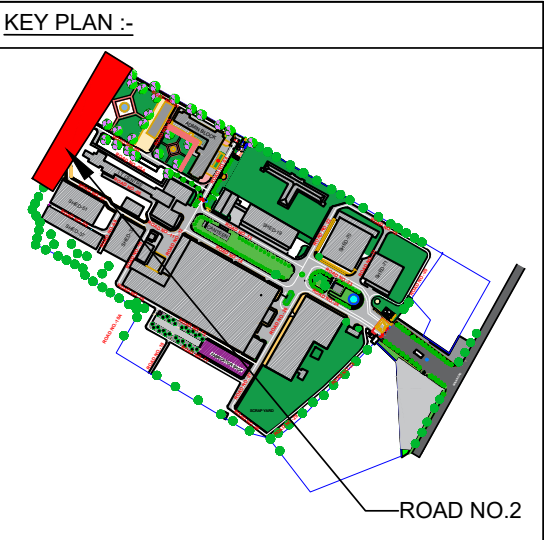
Remarks:
To protect the foundations of the poles and trees (as indicated in the plan), it is proposed to maintain a pathway with a width of 1.5 meters, followed by a saucer drain and kerb stones.
The cycle parking behind the Admin Block will be removed and relocated to Road No. 2 to enhance the facade of the Admin Block.



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.2



PROPOSED UPGRADATIONS FOR
ROAD NO.2



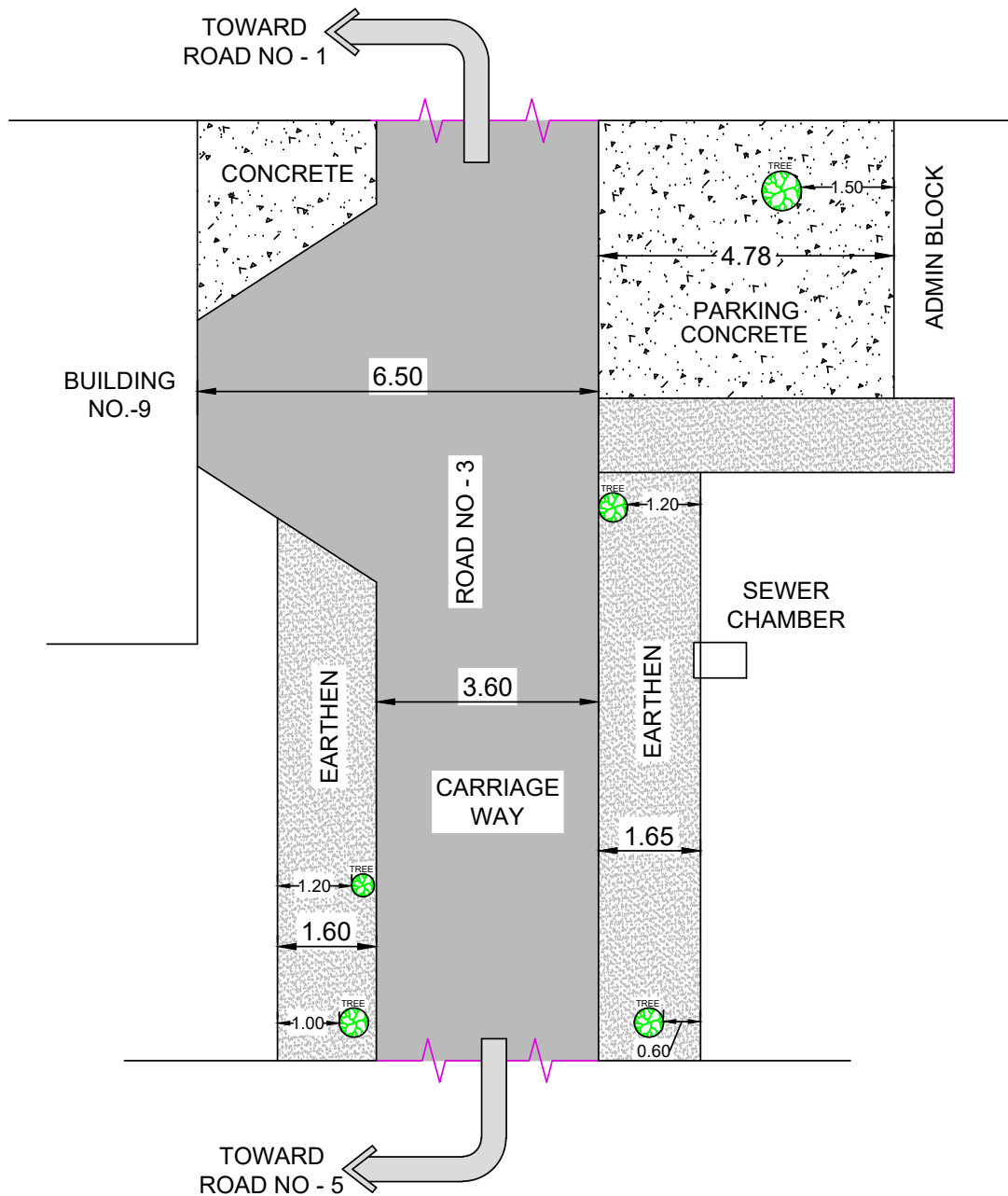
LEGEND	DESCRIPTION
	BOUNDARY WALL
	KERB STONE
	CARRIAGE WAY
	STORM WATER DRAIN
	PATHWAY
	EARTHEN

SUBMITTED BY
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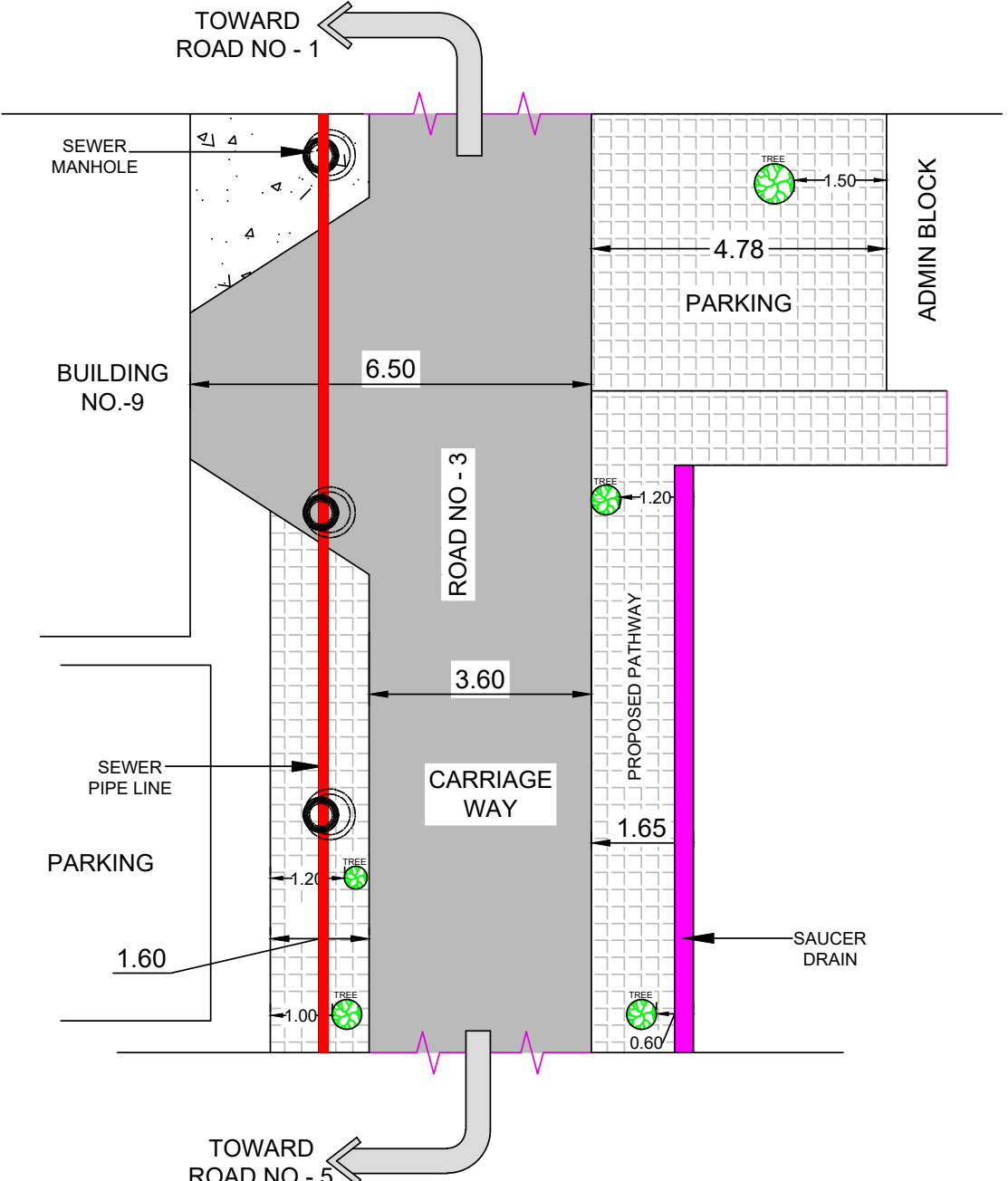
CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-02

SCALE	NTS	DATE	23-01-2025	
DRAWN	NITESH JAIN	CHECKED	AJAY RATHORE	APPROVED
DRG. NO :	RD/MH/AMBRT/04	REVISIONS		

Road No. - 2				
Road Upgradation		Services Upgradations		
Road Length (m)	145	Saucer Drain Laying	N/A	
Existing Carriage Way (m)	27	Drain Section Laying	One Side - 450 mm	
Proposed Carriage Way (m)	27	Sewer Laying	N/A	
Kerb Stone	One Side	Water Supply Laying	N/A	
Pathway (m)	One Side (60 mm)			
Remarks: There is a plot boundary located 1.3 meters from the carriageway near the boundary wall. Without disturbing the plot boundary, it is proposed to provide a 1.3 meter wide pathway made of interlocking blocks. On the other side of the road, a drainage system with a 0.45-meter section is proposed. The top of the drain will be kept 0.2 meters above the existing road level, as this is a peripheral road.				



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.3



PROPOSED UPGRADATIONS FOR
ROAD NO.3

KEY PLAN :-

LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	TREE
	PATHWAY
	SAUCER DRAIN
	CONCRETE

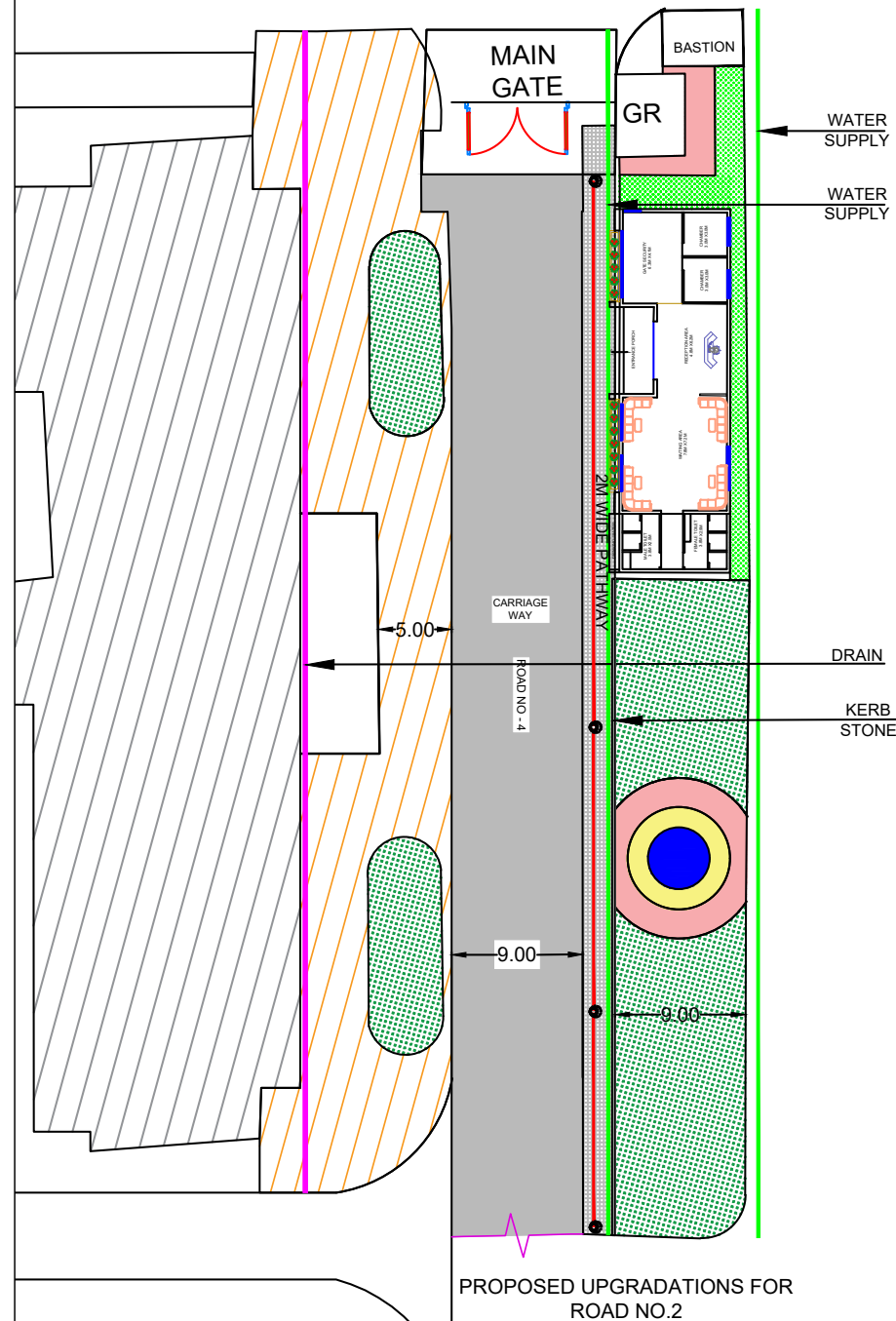
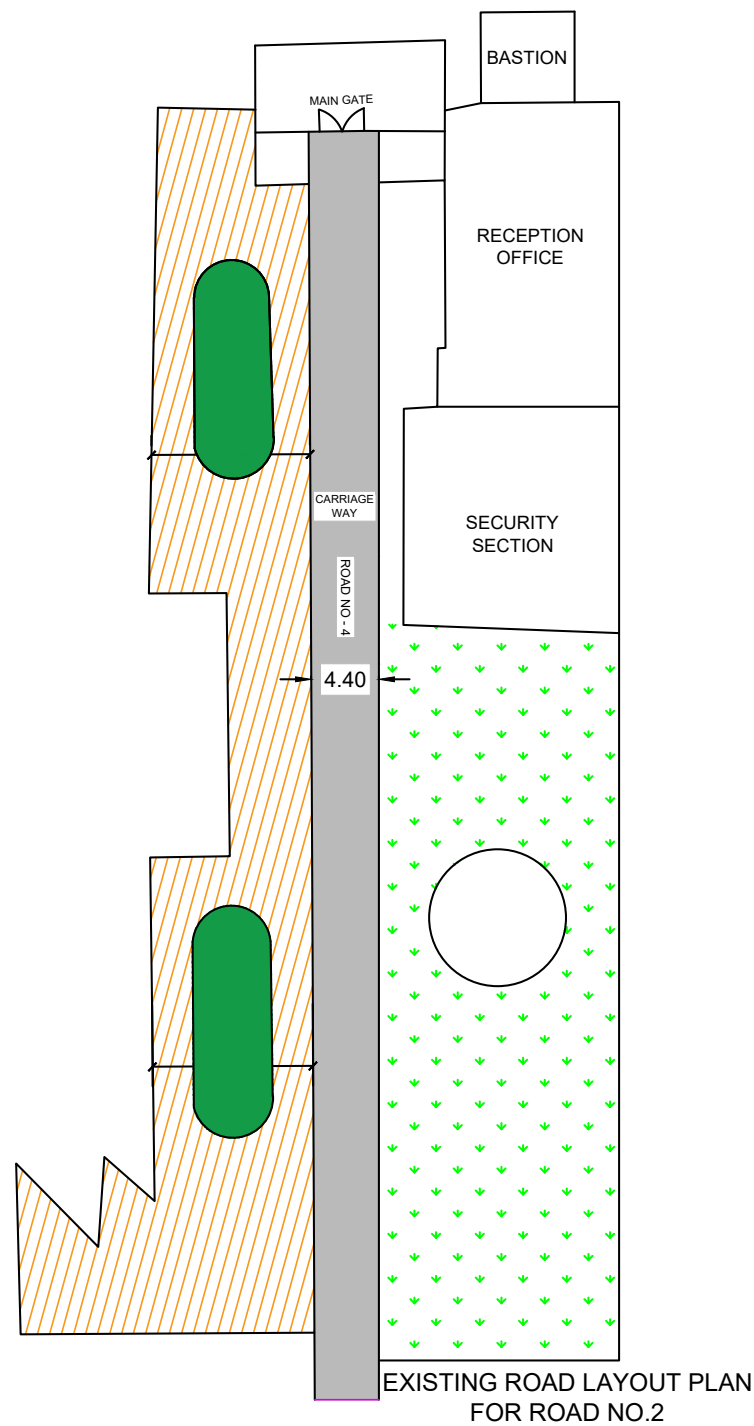
SUBMITTED BY
WAPCOS
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CLIENT 	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-03
SCALE	NTS
DATE	23-01-2025
DRAWN	NITESH JAIN
CHECKED	APPROVED
DRG. NO :	RD/MH/AMBRT/05
REVISIONS	

Road Upgradation	
Road Length (m)	75
Existing Carriage Way (m)	2.0
Proposed Carriage Way (m)	3.6
Kerb Stone	N/A
Pathway (m)	Both Side (60 mm)

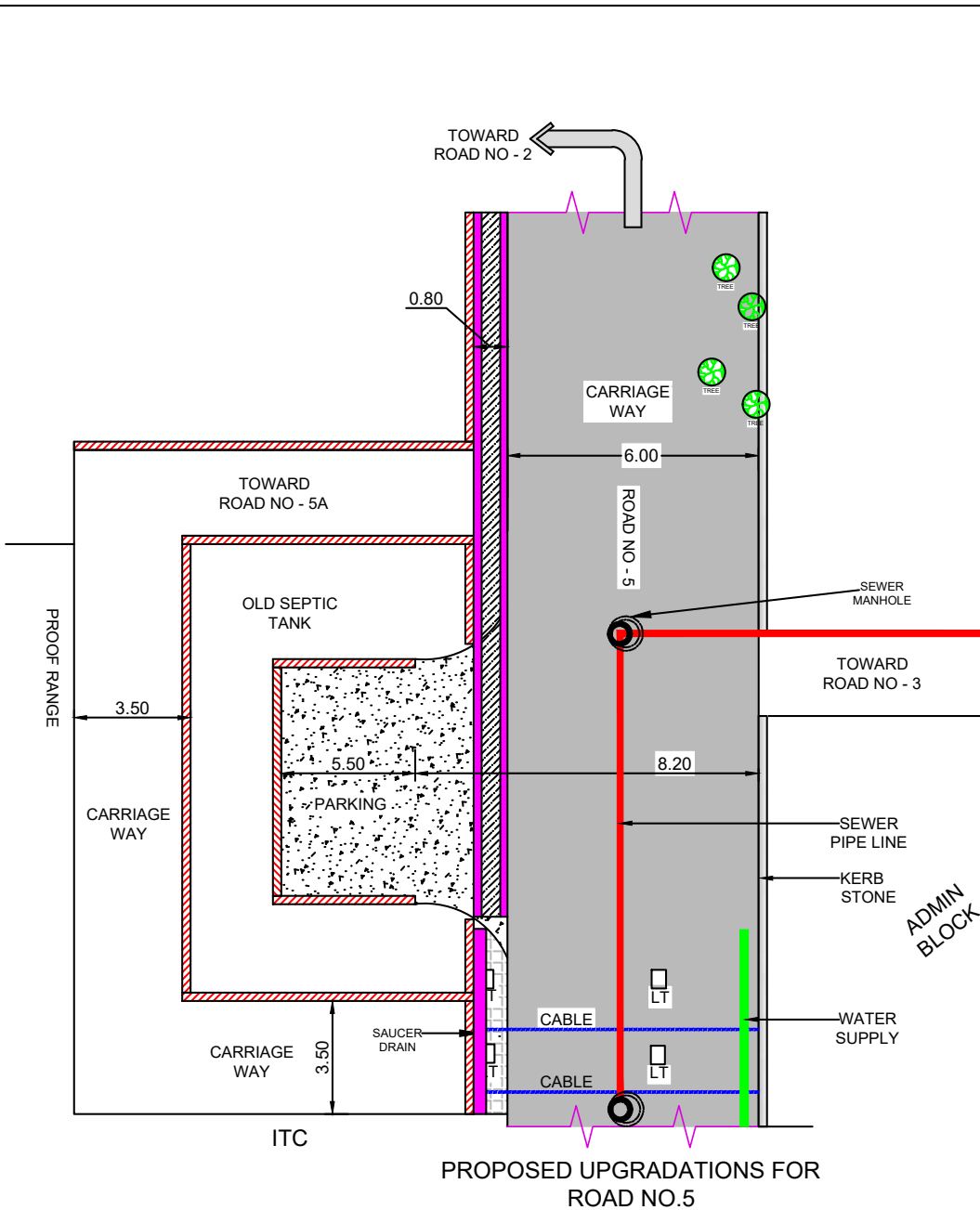
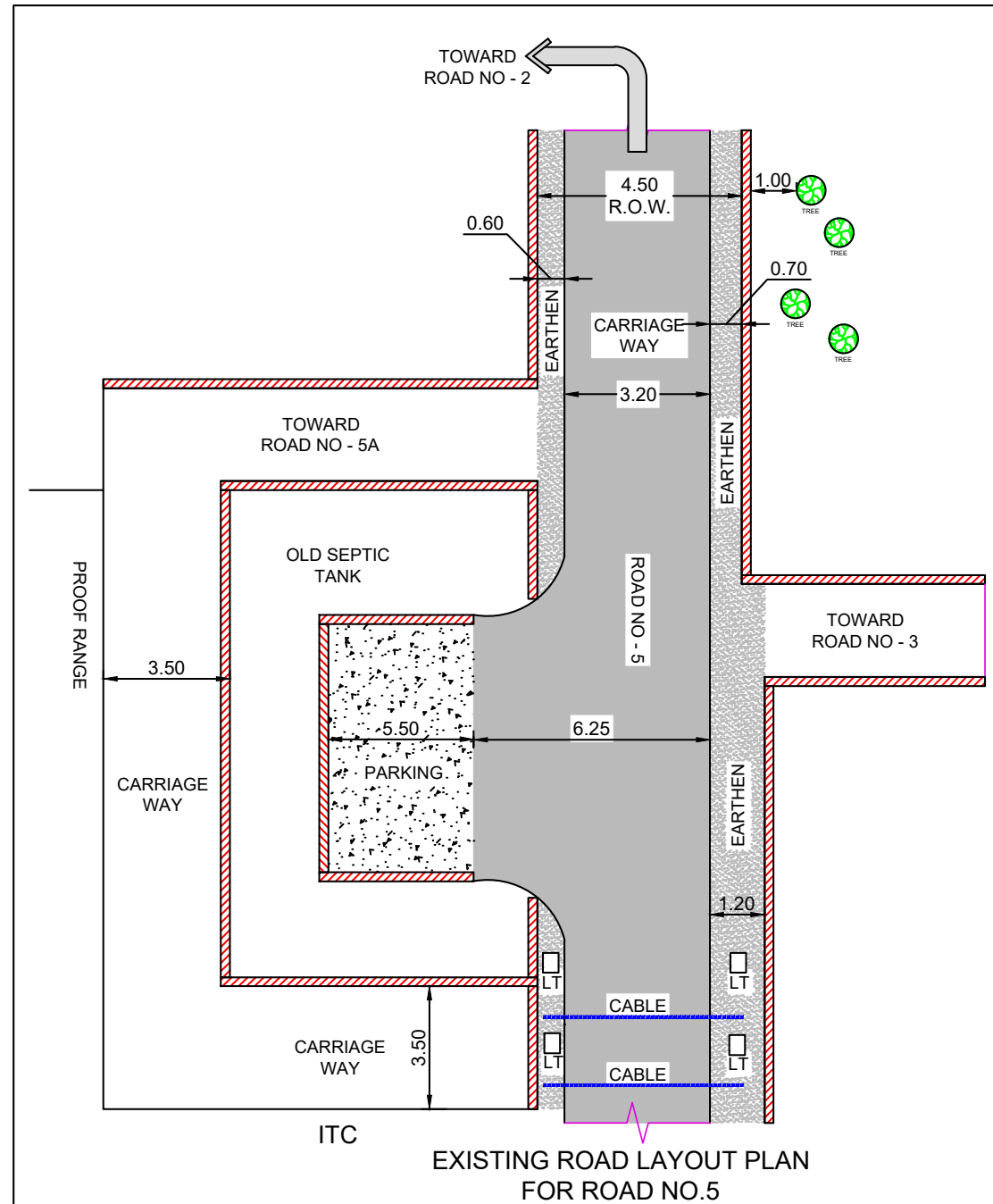
Remarks.
As indicated in the plan, there is an existing cycle parking area in front of Building No. 9, which shall be removed. A dedicated centralized cycle parking facility will be constructed near Building No. 9. At the location of the existing parking area, a pathway is proposed to enhance the road aesthetics. Near Building No. 9 towards Road No. 5, a dedicated centralized cycle parking facility is proposed. Instead of widening the road, it is proposed to use 80mm-thick paver blocks that can withstand traffic loads. The designed sewerage network (Manhole Type A) will pass near Building No. 3, where pathway is also proposed. On the other side of the road, after the proposed pathway, a saucer drain will be installed and connected to the proposed drainage network through a chamber. During the pathway construction, the existing trees shall be preserved.

Road No. - 3 Services Upgradations	
Saucer Drain Laying	One Side
Drain Section Laying	N/A
Sewer Laying	One Side
Water Supply Laying	N/A



KEY PLAN :-	
LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	TREE
	PATHWAY
	SAUCER DRAIN
	CONCRETE
	KERB STONE
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PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-04
SCALE	NTS
DATE	23-01-2025
DRAWN	CHECKED
NITESH JAIN	AJAY RATHORE
APPROVED	
DRG. NO :	RD/MH/AMBRT/06
REVISIONS	
0	

Road Upgradation		Road No. - 4		Services Upgradations	
Road Length (m)	100	Saucer Drain Laying	N/A		
Existing Carriage Way (m)	4.5	Drain Section Laying	One Sided - 450 mm		
Proposed Carriage Way (m)	0	Sewer Laying	One Sided - Type A		
Kerb Stone	One Side	Water Supply Laying	Yes - One Sided		
Pathway (m)	Proposed one Side (80mm)				
Remarks: As indicated in the existing plan, the Reception Office and Service Section Building will be renovated and merged into a single unit, following the proposed road layout. The existing pathway outside the Admin Block Building will remain unchanged, and the existing carriageway will be widened to a 9-meter-wide road. The existing fountain will be demolished and redeveloped as per the approved design. Outside the renovated building, kerb stones are proposed after the pathway to separate the carriageway. Below This Pathway, Sewerage Network shall be laid & Stormwater drainage system with a 450mm section is proposed adjacent to the Admin Block.					



KEY PLAN :-

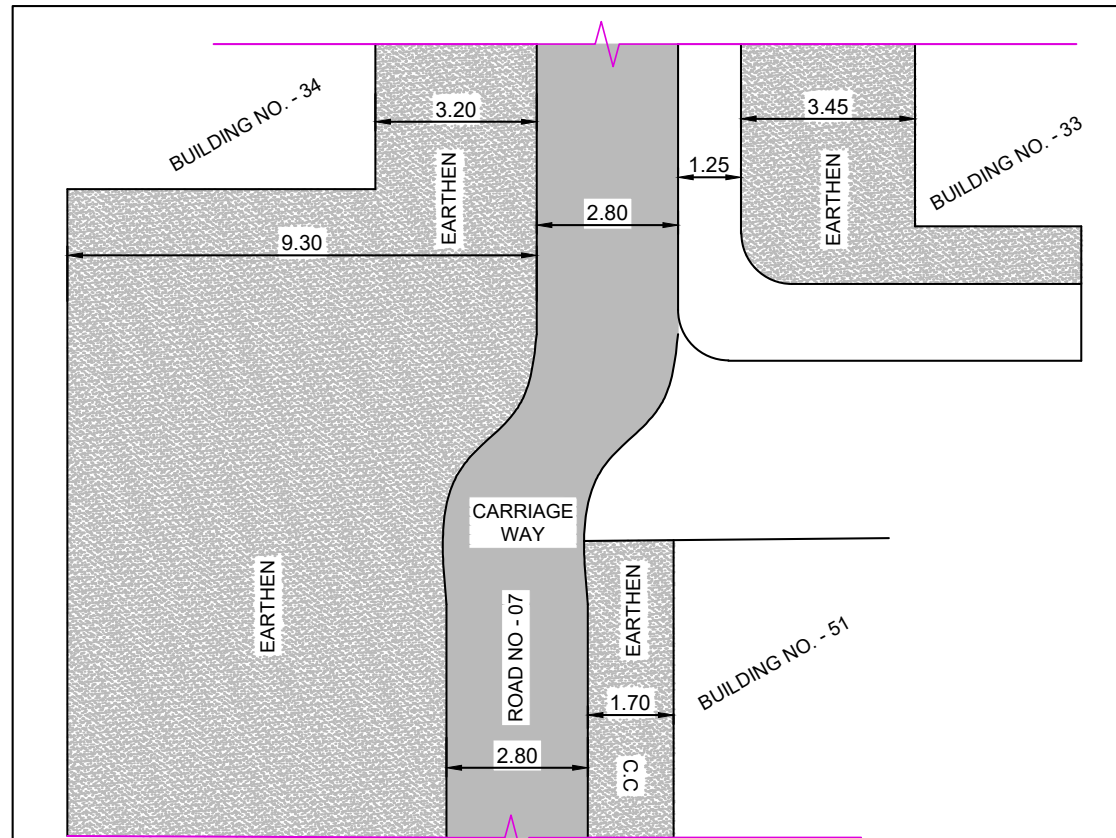
LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	TREE
	WATER SUPPLY
	SAUCER DRAIN
	CONCRETE
	BOUNDARY WALL
	KERB STONE
	CABLE
	LT

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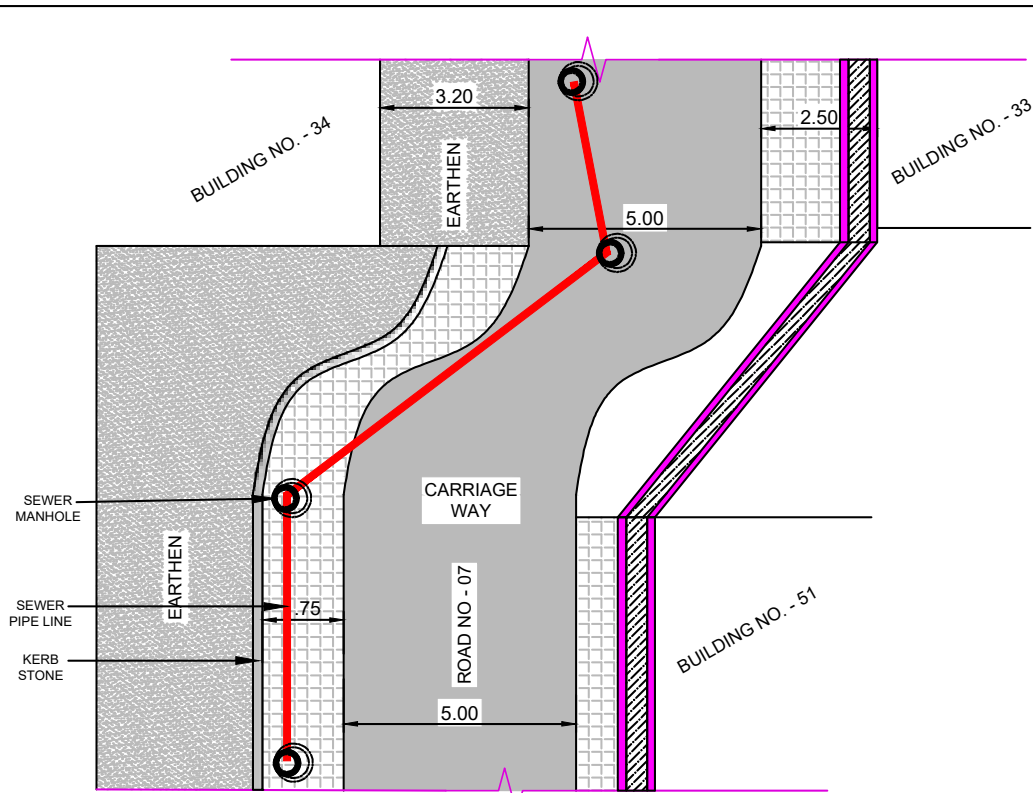
CLIENT 	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-05
SCALE NTS	DATE 23-01-2025
DRAWN NITESH JAIN	CHECKED AJAY RATHORE
DRG. NO : RD/MH/AMBRT/07	REVISIONS 0

Road Upgradation		Road No. - 5	
Road Length (m)	127	Services Upgradations	
Existing Carriage Way (m)	3	Saucer Drain Laying	One Side - From Road no.4 to Parking
Proposed Carriage Way (m)	6	Drain Section Laying	One Sided - 450 mm with Perforated Cover
Kerb Stone	One Side	Sewer Laying	Yes - Type B - center of the Road
Pathway (m)	One Sided Up to Parking (60 mm)	Water Supply Laying	Yes - One Sided

Remarks:
As indicated in the drawing, the existing road has a 3-meter carriageway. Due to its proximity to the Admin Block and the need for parking area access, this road requires widening. The proposed carriageway width is 6 meters, along with a 1.5-meter-wide pathway. For this purpose, the existing boundary of the Admin Block Building will need to be demolished, and road widening is proposed, which may result in the cutting down of some trees.
Additionally, a stormwater drainage system with a 450mm section with perforated covers is proposed.
A sewerage network is also present along this road with Type B manholes. Due to space constraints, the sewerage network will be routed through the center of the road.
At the end of the pathway, there is a provision for kerb stones.

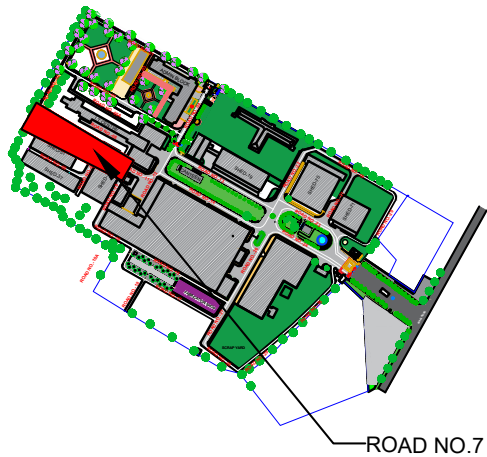


EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.7



PROPOSED UPGRADATIONS FOR
ROAD NO.7

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	EARTHEN
	STORM WATER DRAIN

Road No. - 7			
Road Upgradation		Services Upgradations	
Road Length (m)	130	Saucer Drain Laying	N/A
Existing Carriage Way (m)	2.8	Drain Section Laying	450mm Along Building 33 & Building 51
Proposed Carriage Way (m)	5	Sewer Laying	One Sided, Opposite of Drain Laying - Type B & C
Kerb Stone	One Side	Water Supply Laying	One Sided, Along Building 33
Pathway (m)	Both Side (50 mm)		
Remarks As indicated in the drawing, the existing carriageway of the road is 2.8 meters and the proposed carriageway is 5 meters. The road widening will be carried out adjacent to Building 33 and Building 51, as shown in the road plan. Widening of the Road: Near Building 33, there is a proposal for road widening of 2.2 meters, resulting in a total carriageway width of 5 meters. Due to the irregular longitudinal shape of the road, after Building No. 34, the widening proposal shifts to the side of Building No. 34, where ample space is available. Pathway, Drainage & Sewerage: As indicated in the drawing, drainage is laid along Buildings 33 and 51 at a level 0.3 meters above the existing road level (outside the traffic movement area). The proposed drainage section is 0.45 meters. Adjacent to the drainage section and up to the carriageway, a pathway approximately 1.75 meters wide is proposed. Near Building 51, a space of 1.7 meters is available. Out of this, 0.75 meters will be utilized for drainage, while the remaining 0.95 meters will be used for a pathway. Road widening is not considered on this side due to space constraints. Instead, the widening is proposed on the opposite side of the road (after Building No. 34) where approximately 8 to 9 meters of space is available. On this side, a road widening of 2.2 meters is proposed, resulting in an effective carriageway width of 5 meters. Beyond the widened carriageway, a 1.75 meter wide pathway is proposed, followed by kerb stones. Sewerage Network: The type of manholes running along this road are Type B and Type C, which require 3 to 4 meters of space during execution. Between Building No. 33 and Building No. 34, the sewerage network will be constructed in the middle of the road. After this stretch, near Building No. 51, the manholes will be placed on the opposite side of the road.			

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CLIENT	ARMoured VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE		
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA		
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-07		
SCALE	NTS	DATE	23-01-2025
DRAWN	NITESH JAIN	CHECKED	APPROVED
		AJAY RATHORE	
DRG. NO :	RD/MH/AMBRT/08	REVISIONS	
		0	

KEY PLAN :-



LEGEND

DESCRIPTION

	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	BOUNDARY WALL
	STORM WATER DRAIN

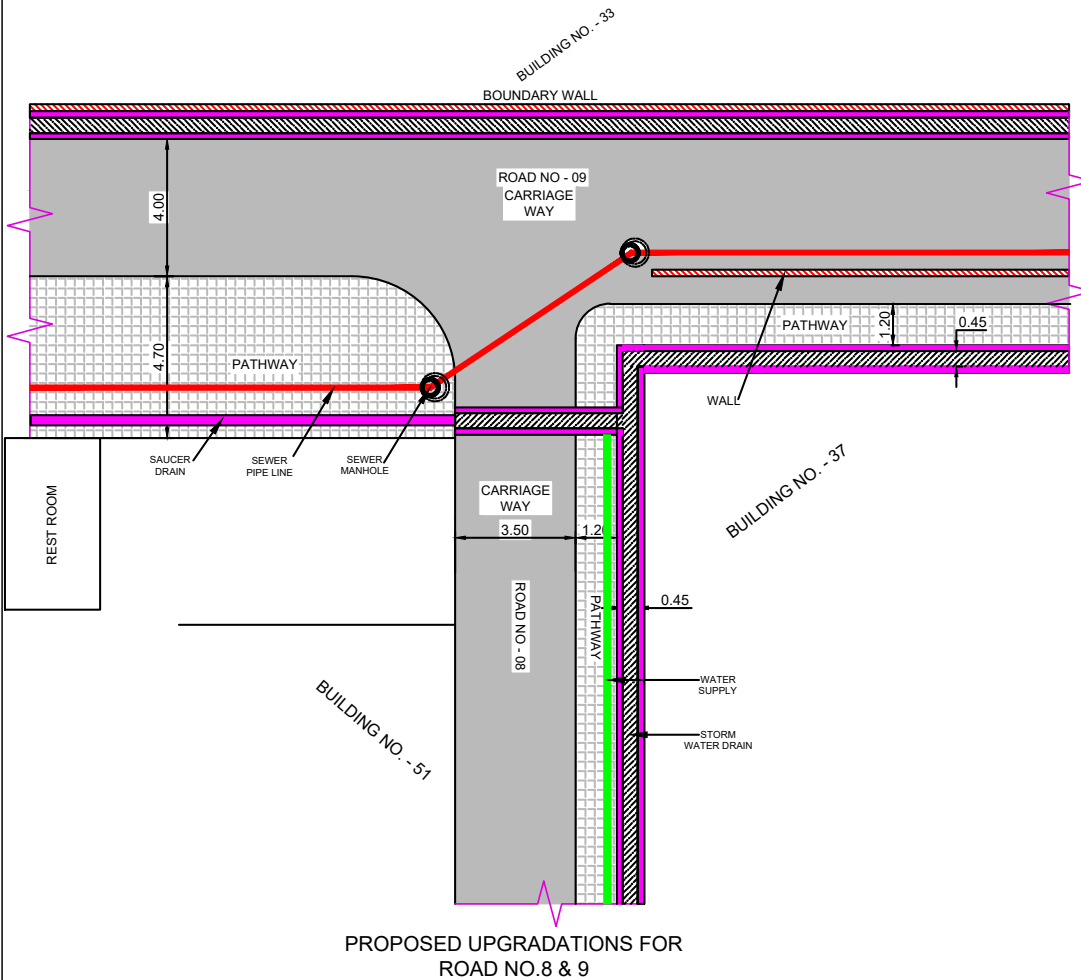
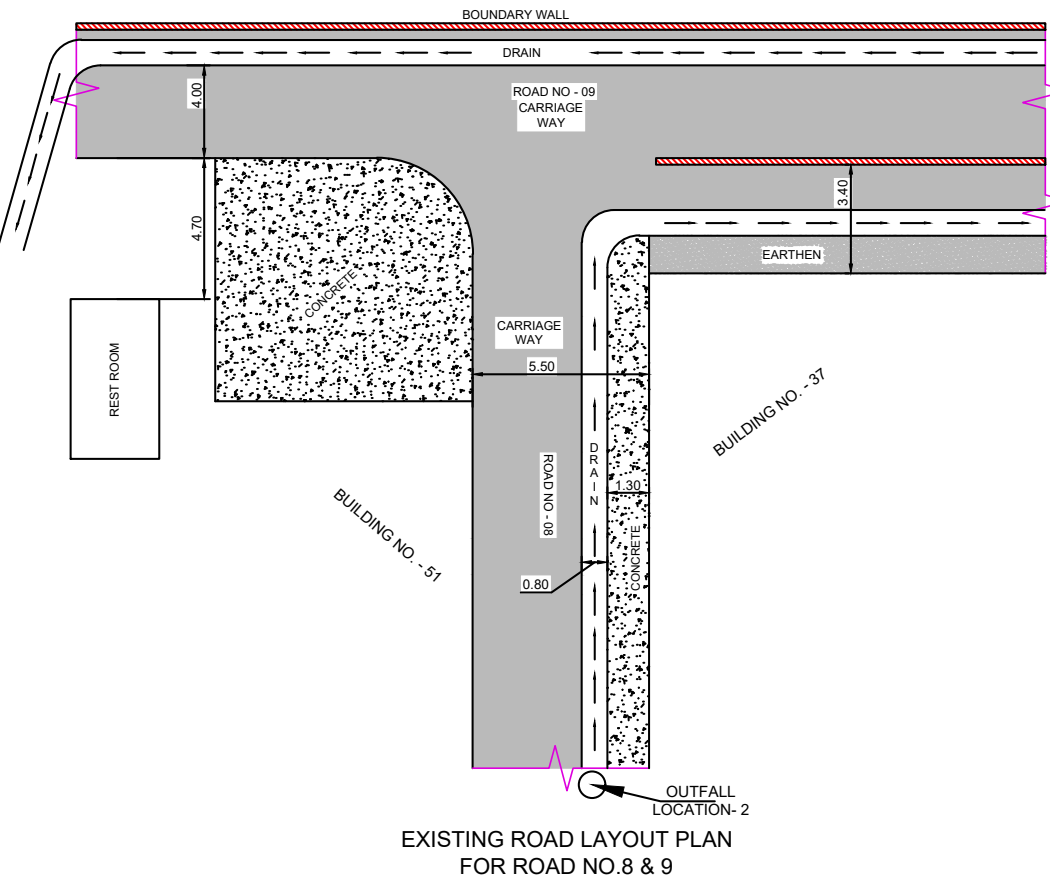
SUBMITTED BY
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CLIENT
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MINISTRY OF DEFENCE

PROJECT
COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA

DRAWING
TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-08 & 09

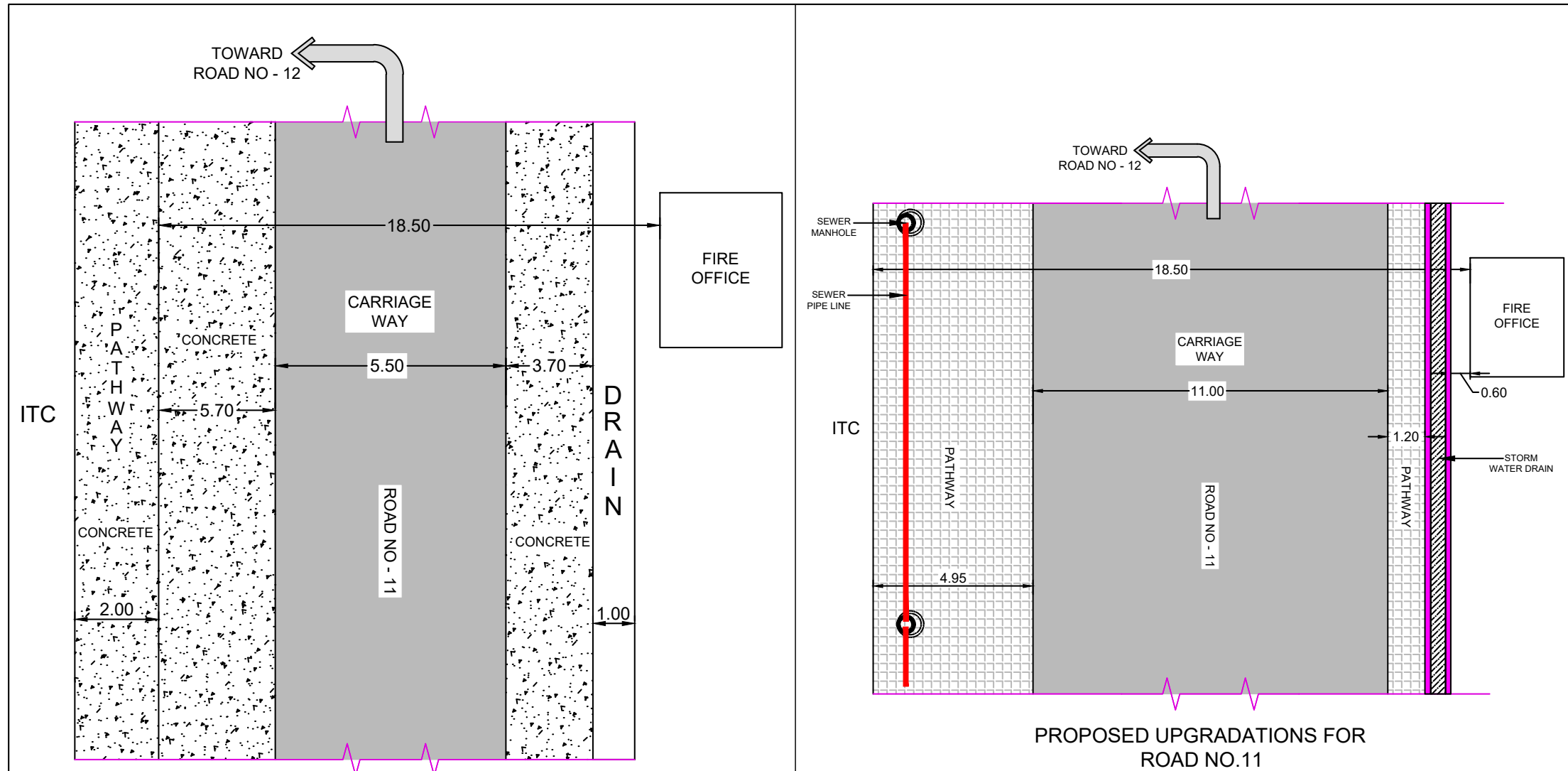
SCALE	NTS	DATE	23-01-2025	
DRAWN	NITESH JAIN	CHECKED	AJAY RATHORE	APPROVED
DRG. NO :	RD/MH/AMBRT/09	REVISIONS		



Road Upgradation		Road No. - 8 & 9		Services Upgradations	
Road Length (m)	88 & 80			Saucer Drain Laying	One Side
Existing Carriage Way (m)	3.5 & 4.0			Drain Section Laying	450mm
Proposed Carriage Way (m)	3.5 & 4.0			Sewer Laying	Type C
Kerb Stone	N/A			Water Supply Laying	Yes
Pathway (m)	One Side (5.1 m)				

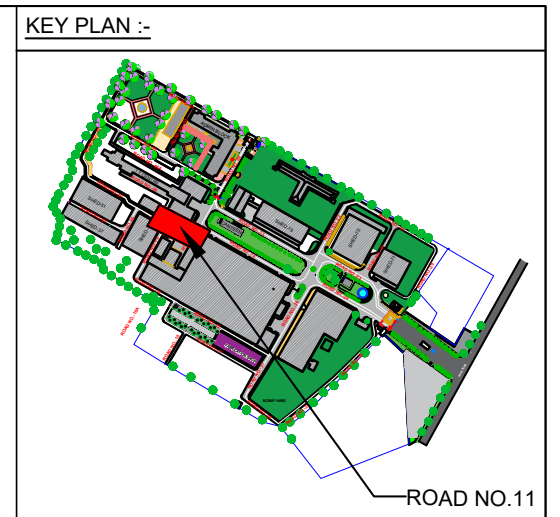
Remarks :
Road No. 8:
In Road No. 8, the space available between Building 31 and Building 37 is 3.5 meters. The existing drainage, marked at 0.8 meters, will be dismantled and a new drainage system is proposed adjacent to Building No. 37. Following this, a 1.2-meter-wide pathway is proposed, and the remaining 3.5 meters is designated as the carriage way. The proposed water supply network will be laid below the pathway. There is no sewerage network planned for this road.

Road No. 9:
In Road No. 9, the existing carriage way is 4 meters wide. Along this road, there is a drainage system of 0.7 meters in width, and PCC (Plain Cement Concrete) of 4.7 meters is present. A proposed drainage network with a 0.45-meter section is planned on the side of Building No. 33, extending toward the outfall location. On this side of the road, the water supply network is also proposed to be laid.
On the opposite side of the road, a sewerage network is planned. As per the Design results, The manholes in this section are Type C, which require a diameter of at least 4.0 meters during execution. It is proposed to execute the sewer network in Road No. 9 at the middle of the road between Building 33 and Building 37. However, in the stretch between Building 33 and Building 51, the sewer network should be executed near Building No. 51.
After the execution of the sewerage network, a pathway with an approximate width of 1.2 meters is proposed in this stretch. At the end of this pathway, a saucer drain is proposed.



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.11

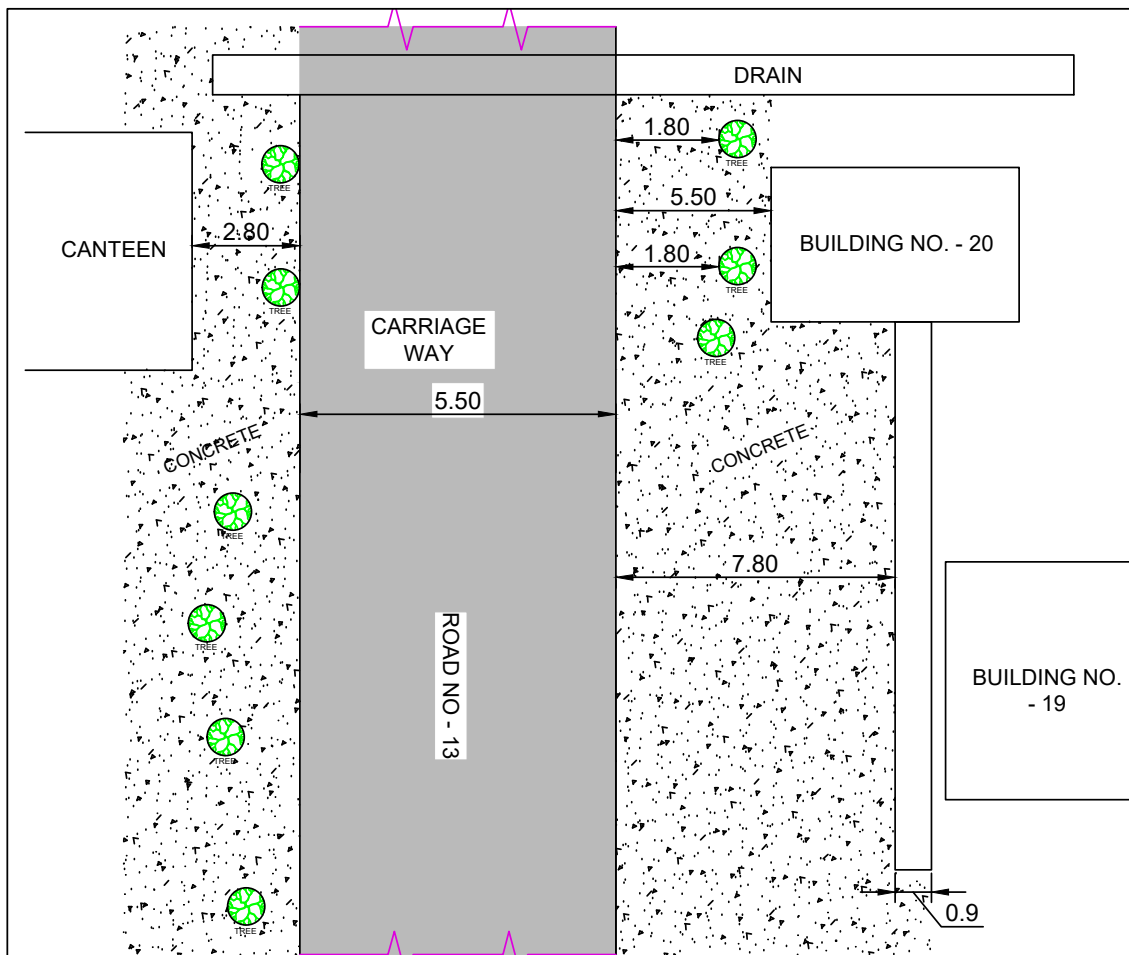
PROPOSED UPGRADATIONS FOR
ROAD NO.11



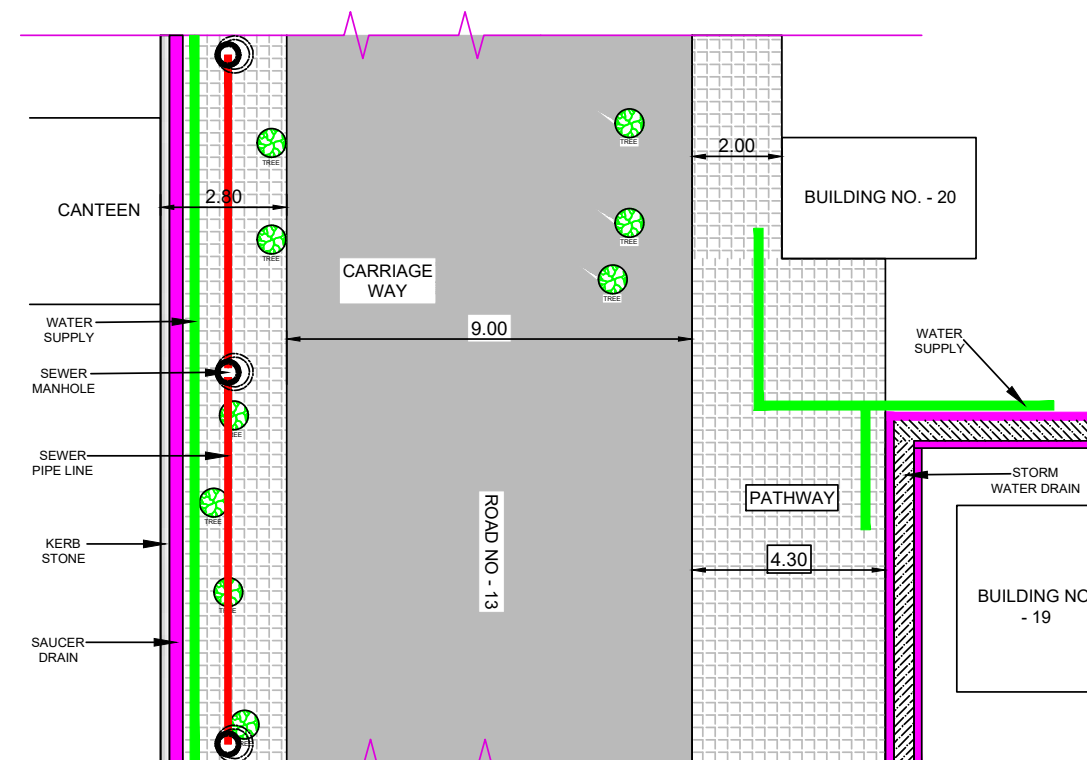
LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	STORM WATER DRAIN

Road No. - 11			
Road Upgradation		Services Upgradations	
Road Length (m)	45	Sewer Drain Laying	N/A
Existing Carriage Way (m)	5.5	Drain Section Laying	25.0
Proposed Carriage Way (m)	11.0	Sewer Laying	Yes - Type A
Pathway (m)	Both Side (50 mm)	Water Supply Laying	Yes - Crossing
Zero Stone	N/A		
Remarks : While moving toward Road No. 12 in the Left Side the existing road layout consists of a 2.0 meter wide pathway followed by 5.70 meters of PCC works and a 5.5 meter wide carriage way. On the left side of the carriage way there is a CC work patch with a width of 3.7 meters. Beyond the CC patch lies the existing drainage network.			
Proposed Upgradation: Sewerage Network A sewerage network with Type A manholes is proposed to be laid beneath the existing pathway near the ITC building. The existing drainage network will be dismantled, and a new drainage section with a width of 0.45 meters is proposed.			
Carriage way Widening The existing 5.5-meter carriage way will be widened to 11 meters on the side where the sewerage network is being laid.			
Pathway Proposals Along the ITC Building: A 2.2-meter-wide pathway is proposed above the sewerage network. Near the Fire Office: On this side of the road, beyond the existing carriage way, a 3.9-meter-wide pathway is proposed.			

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CLIENT	ARMOURED VEHICLES NIGAM LIMITED A GOVERNMENT OF INDIA ENTERPRISE, MINISTRY OF DEFENCE		
PROJECT	COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA		
DRAWING	TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-11		
SCALE	NTS	DATE	23-01-2025
DRAWN	NITESH JAIN	CHECKED	APPROVED
		AJAY RATHORE	
DRG. NO :	RD/MH/AMBRT/10	REVISIONS	
		0	



EXISTING ROAD LAYOUT PLAN
FOR ROAD NO.13



PROPOSED UPGRADATIONS FOR
ROAD NO.13

KEY PLAN :-



LEGEND	DESCRIPTION
	SEWER PIPELINE
	SEWER MANHOLE
	CARRIAGE WAY
	PATHWAY
	BOUNDARY WALL
	STORM WATER DRAIN
	WATER SUPPLY
	TREE
	SAUCER DRAIN
	KERB STONE

Road Upgradation		Services Upgradations	
Road Length (m):	155	Saucer Drain Laying	One Sided
Existing Carriage Way (m):	5.5	Drain Section Laying	One Sided: 0.45m Near Building 19
Proposed Carriage Way (m):	9	Sewer Laying	One Sided Near Canteen Type B
Kerb Stone	One Side (Along Canteen)	Water Supply Laying	One Sided Near Canteen
Pathway (m):	Both Side (80 mm)		
Remark :-			
Road No. 13 lies between Building 19 and the Canteen with an existing carriageway of 5.5 meters. The boundary of the Canteen is located 2.80 meters away from the existing carriageway. On the other side toward Building 19 and Building 20, there is space available 7.80 meters and 5.5 meters, respectively. This road has a camber slope toward the Canteen building. For Building No. 13, there is an existing drainage system with a width of 0.9 meters.			
Proposed Upgradation:			
Drainage			
The existing drainage near Building 19 is recommended to be dismantled and reconstructed adjacent to the building to accommodate stormwater drainage.			
Sewerage Network			
There is a sewerage network passing through this road, with a Type B manhole. This type of manhole requires at least 3 meters of diameter width during execution. It is proposed to lay the sewerage line adjacent to the Canteen building.			
Road Widening			
The existing carriageway of 5.5 meters will be widened to 9 meters. The road widening will take place between Building No. 19 and Building No. 20, requiring 3.5 meters of widening. This may result in some trees being in the way, which may need to be cut down.			
Pathway			
Near Building No. 20 will have a 2-meter pathway & Building No. 19 will have a 4.3-meter pathway after the road widening and drainage construction.			
Near the Canteen:			
On the side of the road near the Canteen, there is 2.8 meters of available space after the carriageway. This space will be developed into a pathway, beneath which sewer and water supply services will be laid.			
At the edge of the pathway, toward the Canteen, there is a proposal for a saucer drain followed by kerb stones.			

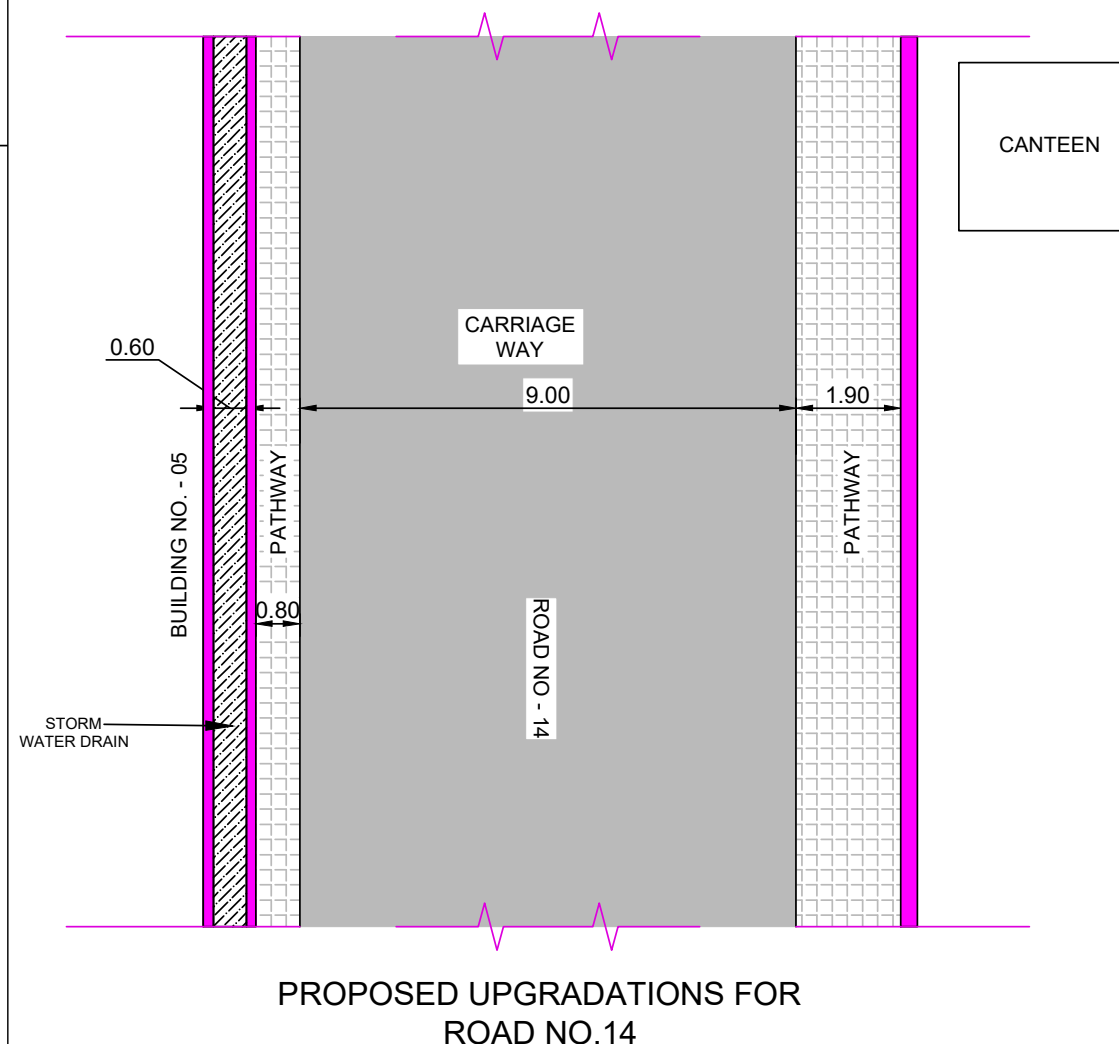
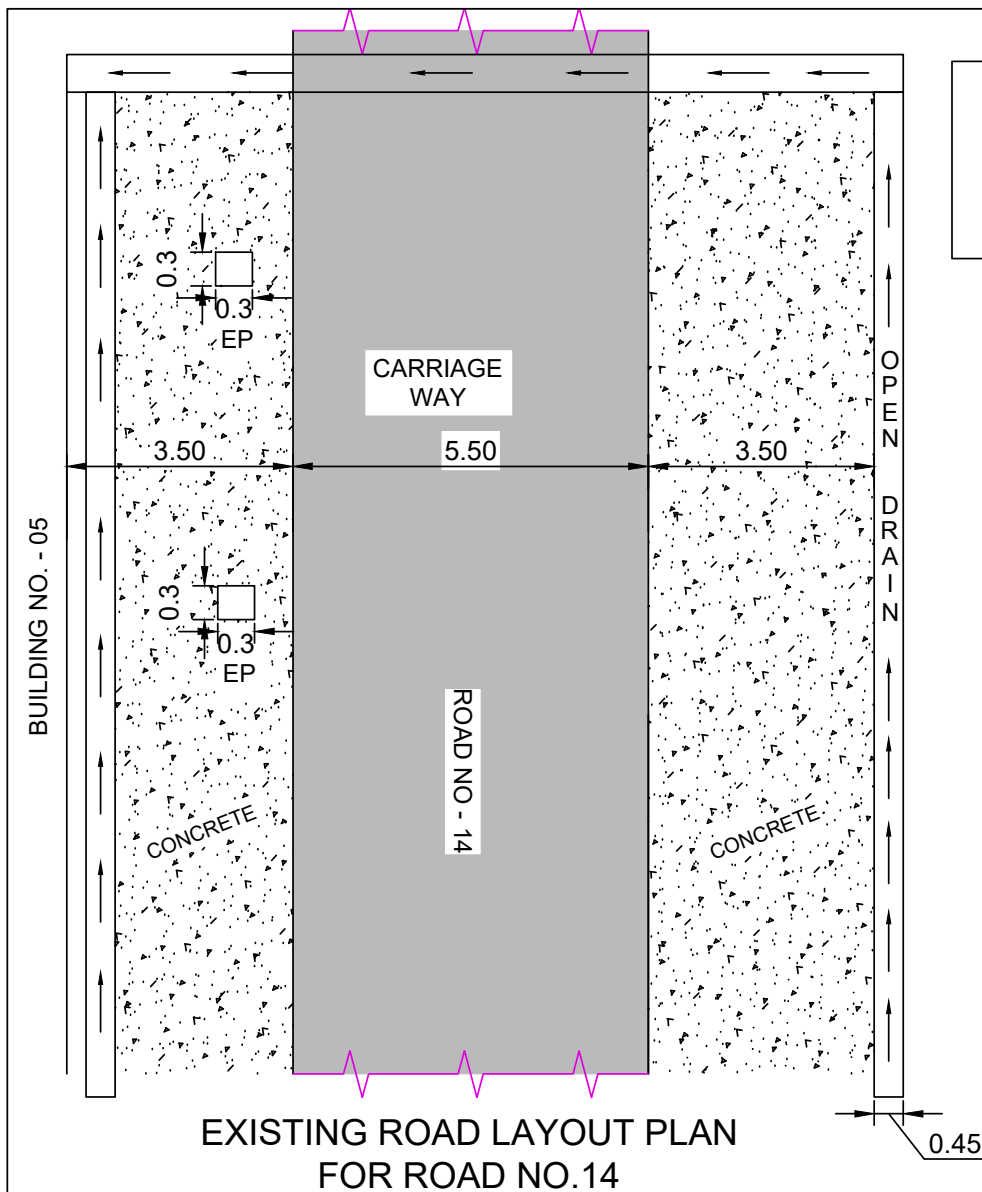
SUBMITTED BY
ROPEWAYS DIVISION, 2ND FLOOR, PLOT NO.- 62, INSTITUTIONAL AREA, SECTOR-18, GURGAON - 122015 (HARYANA)
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CLIENT
ARMOURED VEHICLES NIGAM LIMITED
A GOVERNMENT OF INDIA ENTERPRISE,
MINISTRY OF DEFENCE

PROJECT
COMPREHENSIVE UPGRADATION OF ROADS, PATHWAYS, & LANDSCAPING AT MTPF-AVNL AMBERNATH, MAHARASHTRA

DRAWING
TYPICAL LAYOUT PLAN OF EXISTING ROAD & PROPOSED UPGRADATIONS: ROAD-13

SCALE	NTS	DATE	23-01-2025
DRAWN	NITESH JAIN	CHECKED	APPROVED
		AJAY RATHORE	
DRG. NO. :	RD/MH/AMBRT/11	REVISIONS	



KEY PLAN :-



LEGEND	DESCRIPTION
	CARRIAGE WAY
	PATHWAY
	SAUCER DRAIN
	STORM WATER DRAIN

Road Upgradation	
Road Length (m)	15.4
Existing Carriage Way (m)	5.5
Proposed Carriage Way (m)	9
Kerb Stone	One Side
Footway (m)	Both Side (80 mm)

Remarks

Road No. 14 connects Road No. 12 and Road No. 25 and provides access to Building No. 5 and the Canteen. The existing carriageway of the road is 5.5 meters wide. On one side toward Building No. 5, there is a space of 3.5 meters available from the carriageway. On the other side (toward the Canteen), there is a space of 3.95 meters, which is built with PCC. The camber of the road slopes toward the Canteen.

Proposed Upgradation.

Drainage Network

A drainage network is proposed to pass through the side of the road near Building No. 5. On the side near the Canteen, a saucer drain is proposed to handle stormwater runoff. The drainage section near Building No. 5 is proposed to be 0.6 meters wide to cater to stormwater from the building.

Road Widening

The existing carriageway of 5.5 meters will be widened to 9 meters by extending 3.5 meters toward the both side from Center.

Footway Construction

Near Building No. 5. After the construction of the drainage system, the remaining space of 0.60 meters will be utilized for a pathway. During this process, any existing electric poles, earthing pits, or trees encountered can be retained while integrating them into the pathway design.

Toward the Canteen. After road widening, there will be a total space availability of 2.20 meters. Out of this, 1.9 meters will be utilized for the construction of a pathway. The remaining 0.30 meters will be used for a saucer drain to manage stormwater runoff effectively.

Road No. - 14

Services Upgradations	
Saucer Drain Laying	One Side
Drain Section Laying	One Side
Sewer Laying	N/A
Water Supply Laying	Crossing

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COMPREHENSIVE UPGRADATION OF ROADS,
PATHWAYS, & LANDSCAPING AT
MTPF-AVNL AMBERNATH, MAHARASHTRA

DRAWING

TYPICAL LAYOUT PLAN OF EXISTING ROAD
& PROPOSED UPGRADATIONS: ROAD-14

SCALE	NTS	DATE	23-01-2025				
DRAWN		CHECKED		APPROVED			
NITESH JAIN		AJAY RATHORE					
DRG. NO :	RD/MH/AMBRT/12			REVISIONS			
				0			