

Chennai Metro Rail Policy for issuing No Objection Certificate for any Development/ Construction inside 'Metro Protection Zone'.

Preface:

Currently, for any development proposal or planning permission within 50m from the center of the metro alignment, NOC is to be obtained from CMRL. CMRL will issue 'No Objection Certificate' to any Development/ construction proposal within the Metro Protection Zone on receipt of application from Development authorities.

The purpose of issuing NOC is to ensure that,

- the proposed development does not affect the existing CMRL structures.
- the proposed development does not infringe with the proposed CMRL alignment.

Now, the NOC policy have been framed separately for (I) completed corridors and (II) proposed/ under implementation corridors of CMRL as below.

NOC Policy guidelines:

(I) For completed Corridors of CMRL:

A. Underground (UG) section:

In case of Underground section, the Metro Protection Zone will be 11 m on either side from end of UG structures. Figure 1 to 3 indicates the cross section of Metro Protection Zone for Tunnels, Cut & Cover/ ramps and UG stations. This Metro Protection Zone for CMRL operational corridors are available in CMRL website in KML format.

- Any developments inside this ZONE requires NOC from CMRL.
- The area above UG structures as well as 3.5 m on either side from edge of UG structure is defined as ZONE-I.
- The balance area of 7.5m on either side of ZONE-I is defined as ZONE-II.

1.1 Prohibited activities in the ZONE-I:

1. Deep foundation/ pile foundation works/ Anchoring works (Ground anchors/ Rock anchors).
2. Bore wells, bore holes, dredging or any similar works.
3. Use of explosives for controlled blasting.

1.2 Restricted activities in the ZONE-I:

1. Deep excavation and trenches for basement works.
2. Installation/replacement of Utilities, conduits, or any similar works.
3. Construction of underground passageways.

If any development or part falls within ZONE I, following criteria is to be considered:

1. Allowable Pressure on Tunnel top level should not exceed 60 KPa.

1.3 Restricted activities in the ZONE-II:

1. If pile foundations are proposed inside ZONE-II, then debonding is to be done as shown in figure 4.
2. Excavations/bore wells/ bore holes.

B. At-Grade/ Elevated Section:

In case of At-Grade/ Elevated sections (above ground structures), the Metro Protection Zone will be 5m on either side from edge of the CMRL structures. Figure 5 & 7 indicates the Metro Protection Zone for Viaduct, Ramps and Elevated stations including entry and exit structures.

- Any developments inside this ZONE require NOC from CMRL.
- The area within 2m on either side from edge of CMRL At-Grade/ Elevated structure is defined as ZONE-I.
- The balance area of 3m on either side of ZONE-I is defined as ZONE-II.

2.1 Prohibited activities in the ZONE-I:

1. Any type of excavation/construction works.
2. Movement or operation of cranes, hoists and other lifting equipments.
3. Installation/replacement of Utilities, conduits, or any similar works.
4. Erection of scaffolding and other temporary structures.
5. Storage of goods.
6. Use of explosives.

2.2 Restricted activities in the ZONE-II:

1. Installation or replacement of utilities, conduits, or any similar works.
2. Drilling of Anchors.

3. Vibration/ explosives for controlled blasting.

The prohibited activities listed above are not allowed inside the Metro Protection Zone whereas the restricted activities listed above will be permitted by CMRL only after detailed analysis and safety considerations.

C. Regularization/ Re-Classification of lands:

No NOC is required from CMRL even-though the property falls within Metro Protection Zone.

(II) For Proposed/ under implementation corridors (both Elevated and Underground sections) of CMRL:

In case of proposed/ under implementation corridors, the Metro Protection Zone for CMRL will be 50m on the either side of centre line of CMRL alignment (both above ground and below ground sections).

(III) Mandatory Documents to be enclosed with application.

1. Land Plan of the subjected area.
2. Design report of proposed structures including foundation along with base pressure calculations.
3. Structural details and drawings of the proposed structures.
4. Any other statutory documents to substantiate the above.

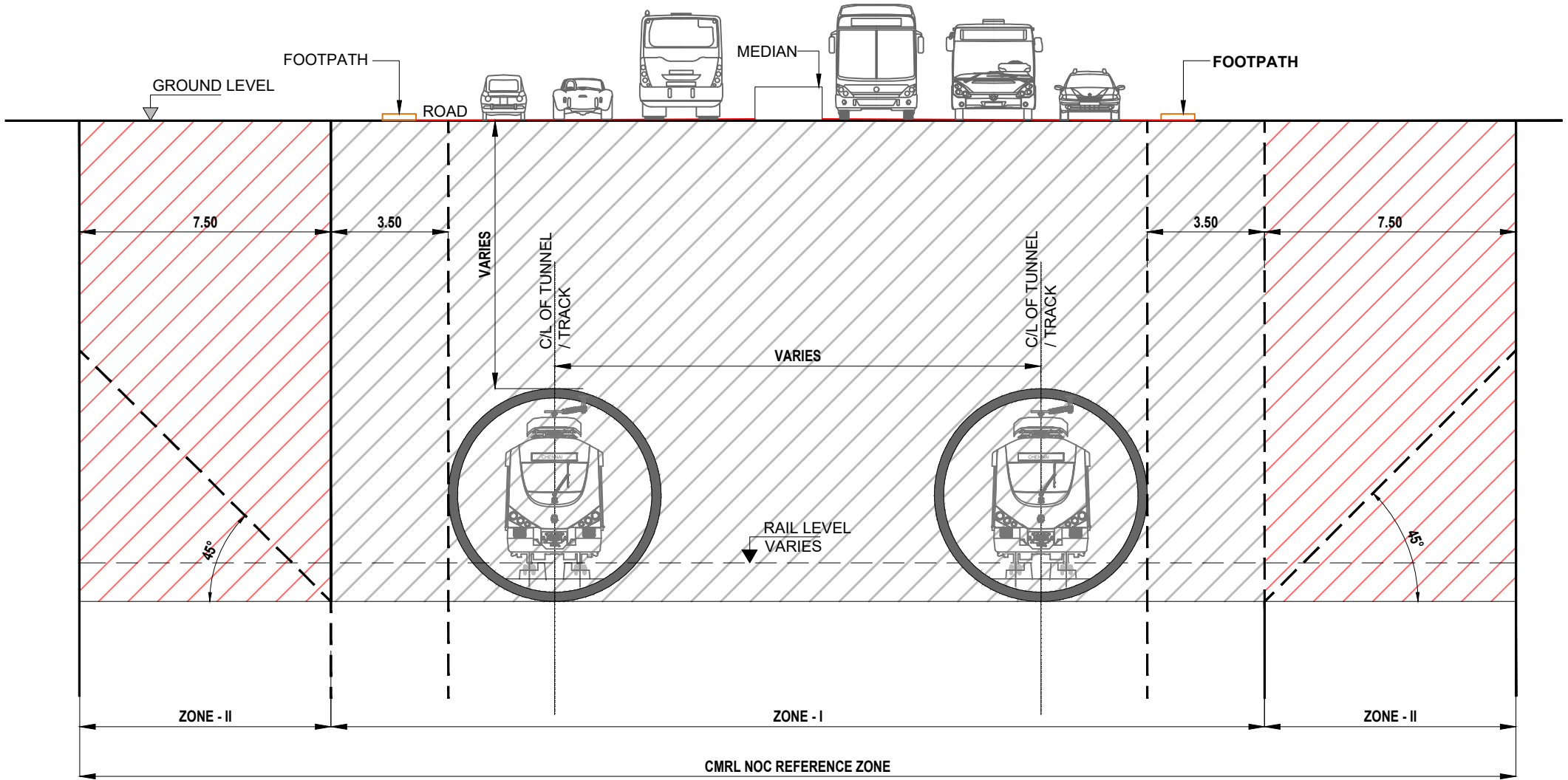
(IV) Procedure:

- a. Joint General Manager (Architecture), CMRL is in-charge for receiving the applications sent by Approval Authority (CMDA/ GCC/ Municipal Corporation/ Panchayat Union etc) either directly or on Single Window Portal (SWP).
- b. The application shall be verified at site by CMRL with respect to CMRL Alignment.
- c. If land acquisition is proposed on the subjected property/land then Land section of CMRL shall verify the land take issues associated with the subject property and provide clearance/ remarks.
- d. After Land clearance, the application shall be reviewed by Structural team based on the development proposal given and its proximity to the alignment.

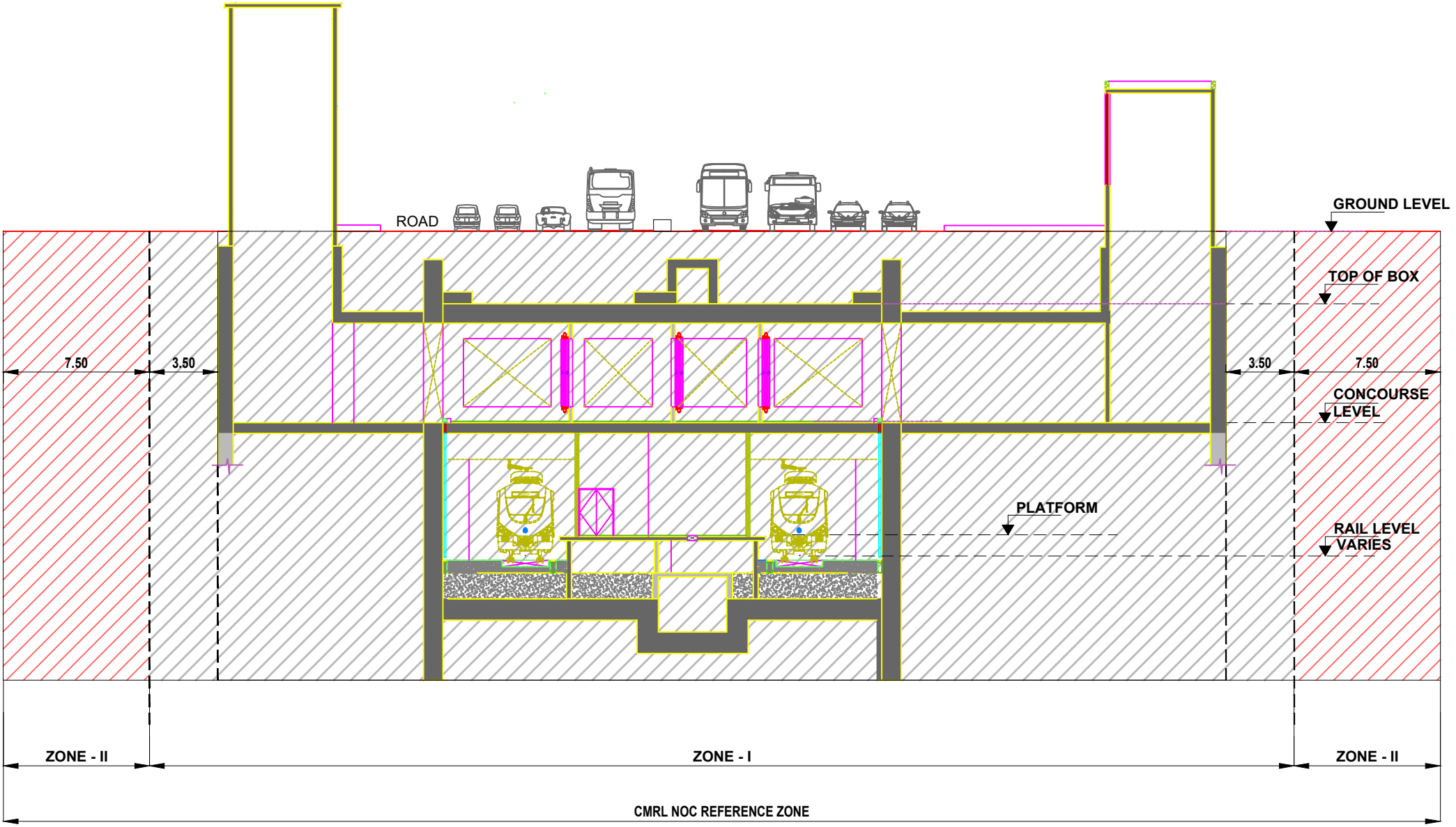
- e. In case any additional details/document required, same shall be communicated in Online portal / directly to approval authority (CMDA/ GCC/ Municipal Corporation/ Panchayat Union etc).
- f. On technical clearance, the application shall be sent to CMRL Authority for approval. On approval by Director (Projects) through Chief General Manager- PP&D, NOC letters will be issued through single window portal/ directly to approval authority (CMDA/ GCC/ Municipal Corporation/ Panchayat Union etc). On rejection of application, same will be communicated to Development Authority.

(V) Timeline:

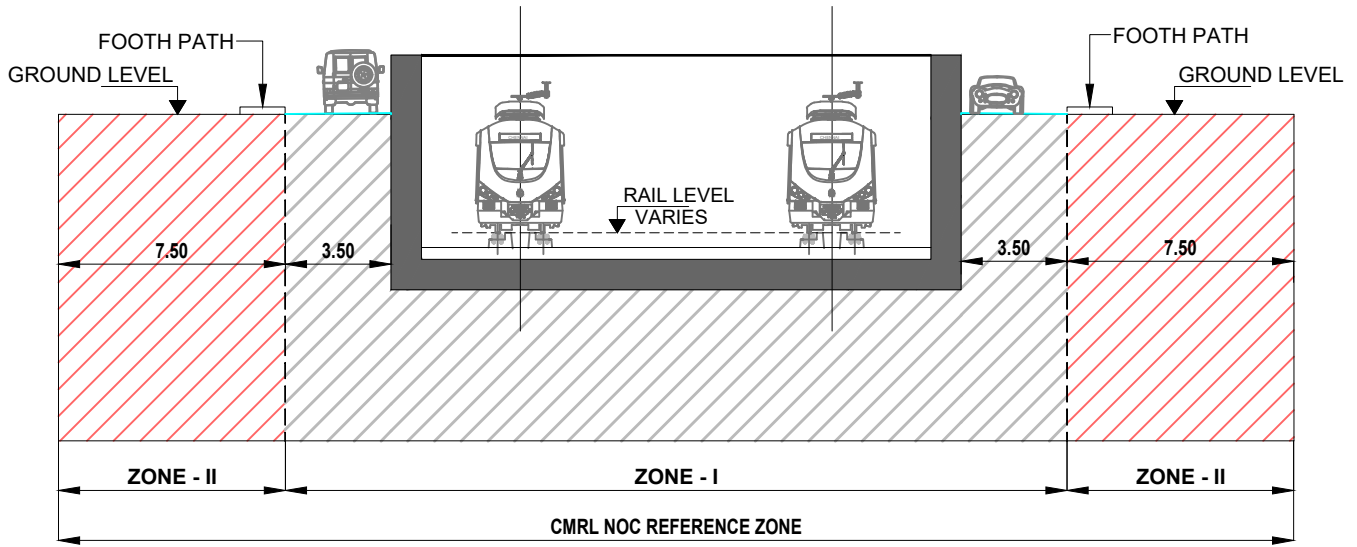
The reply to NOC application shall be sent through single window portal/ directly to approval authority (CMDA/ GCC/ Municipal Corporation/ Panchayat Union etc) within 30 days from the receipt of all necessary documents.



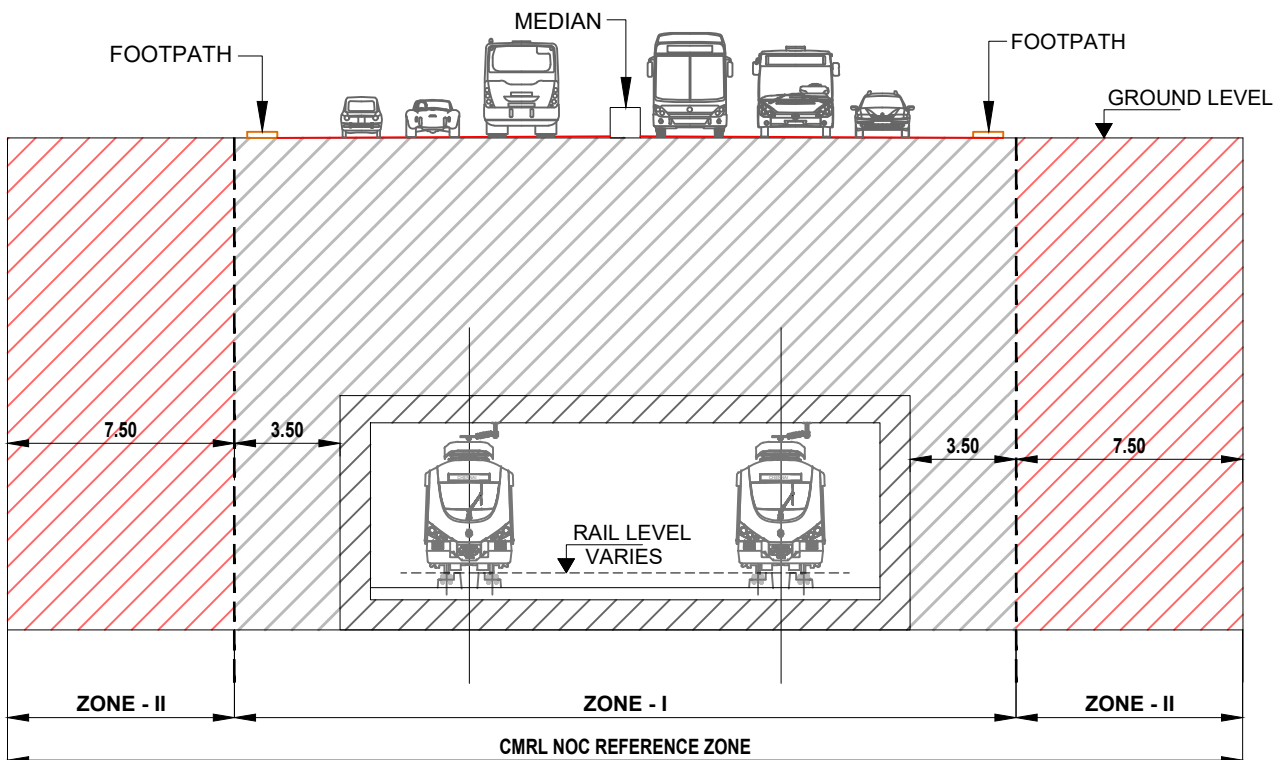
CROSS SECTION OF TUNNEL



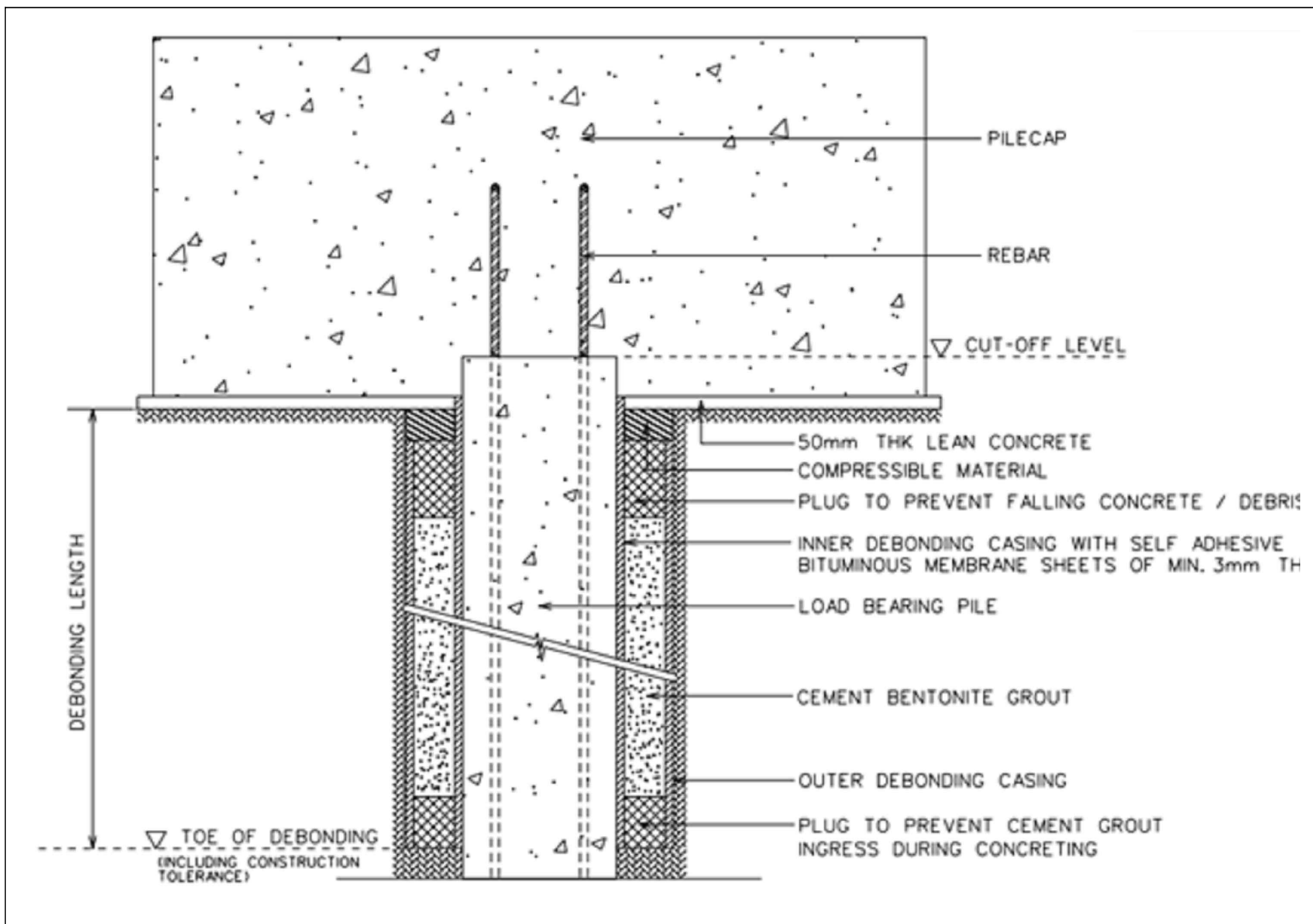
CROSS SECTION AT UNDER GROUND STATION

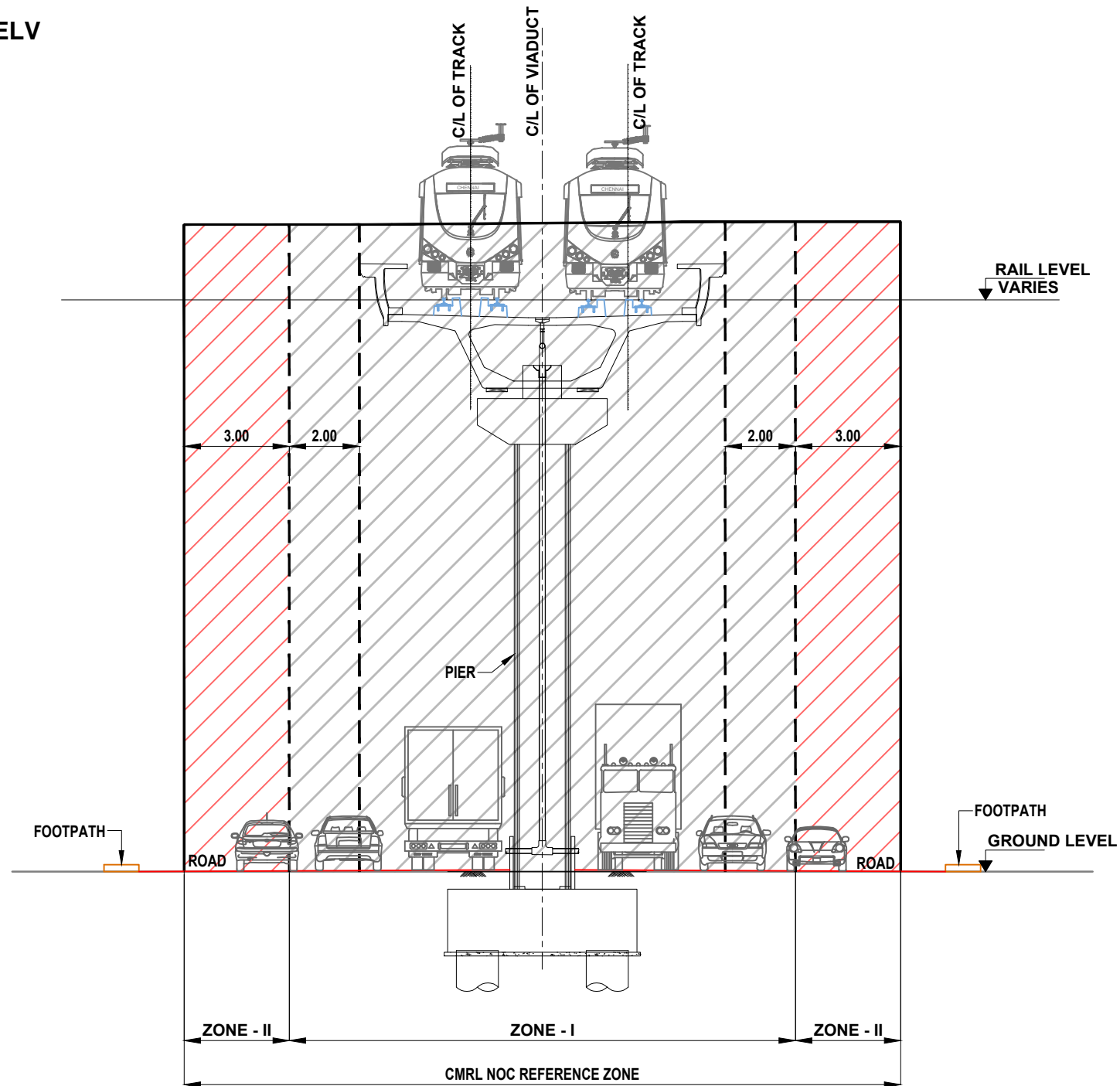


CROSS SECTION AT RAMP AREA

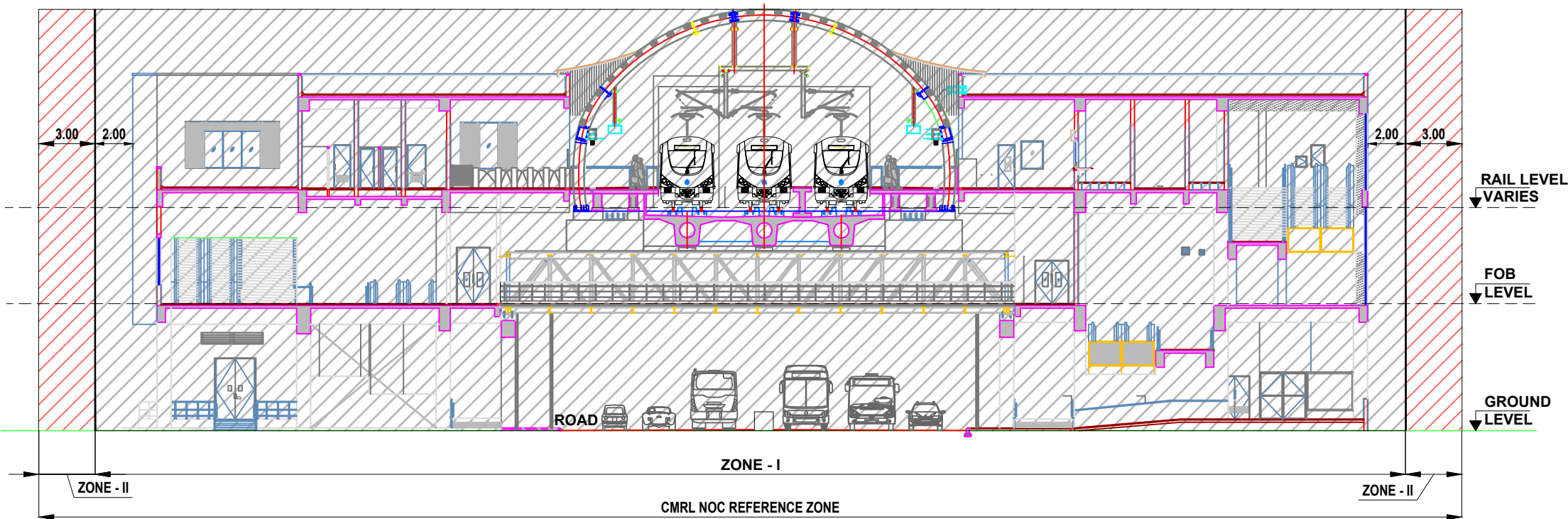


CROSS SECTION AT BOX SECTION

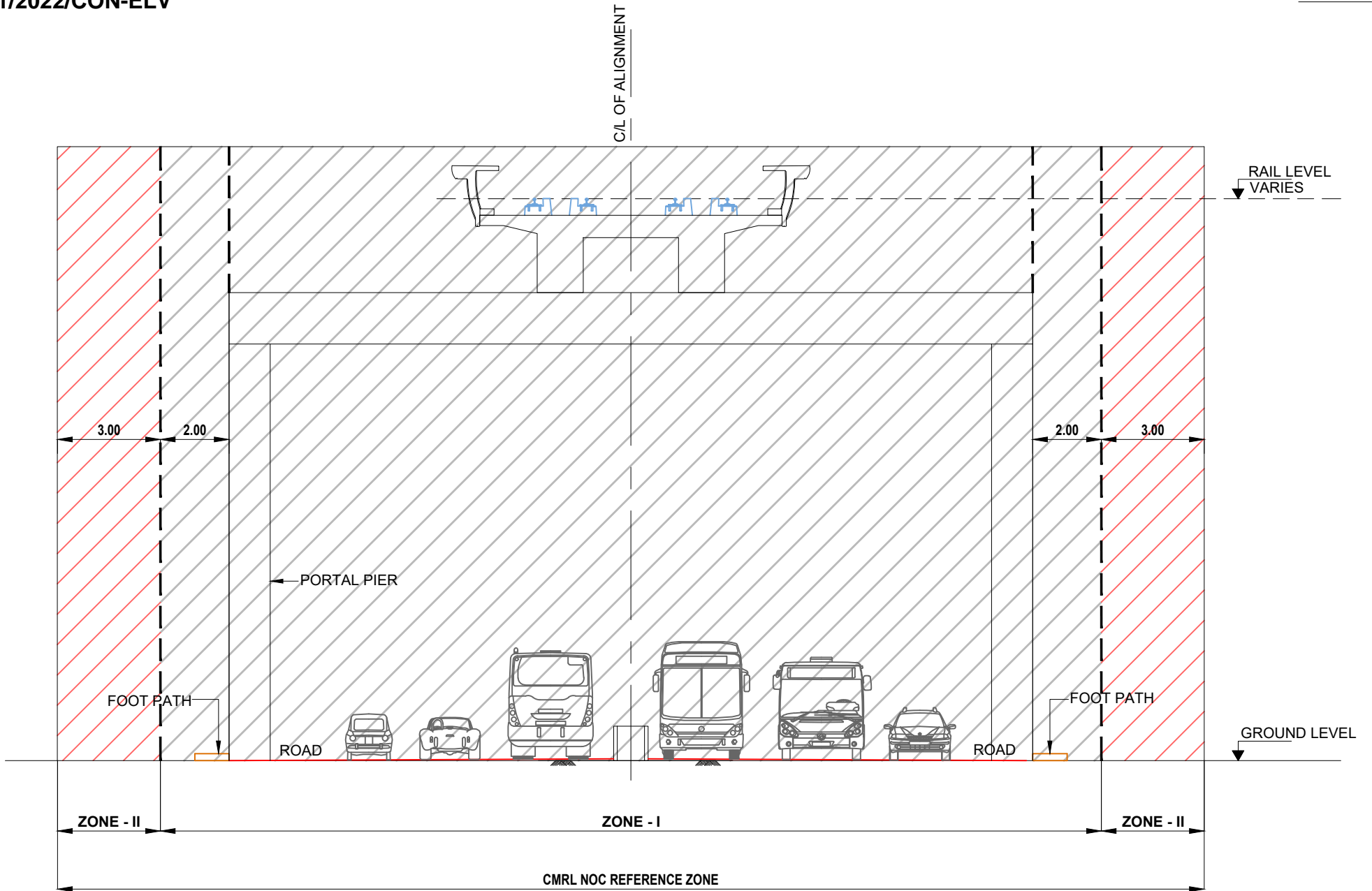




CROSS SECTION OF VIADUCT



CROSS SECTION AT ELEVATED STATION



VIADUCT CROSS SECTION AT PORTAL PIER

