

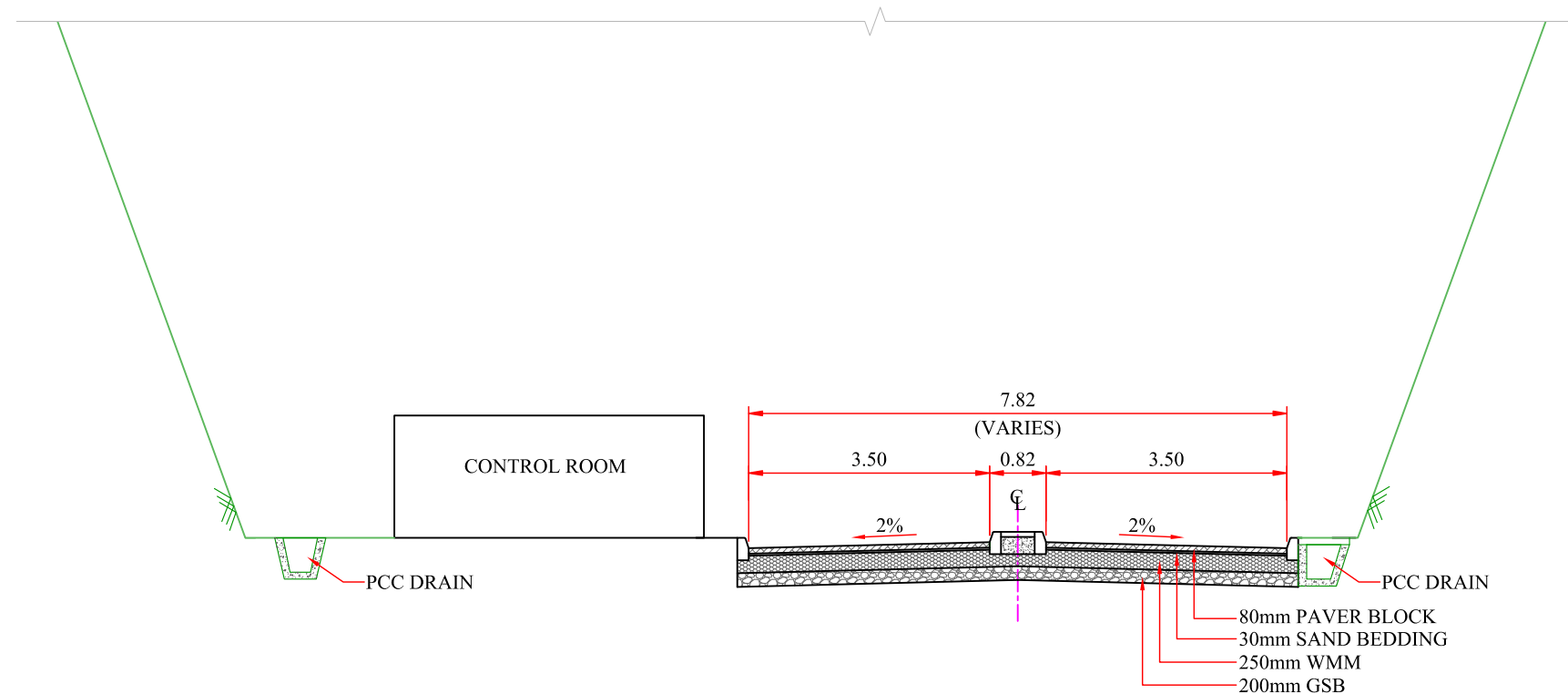


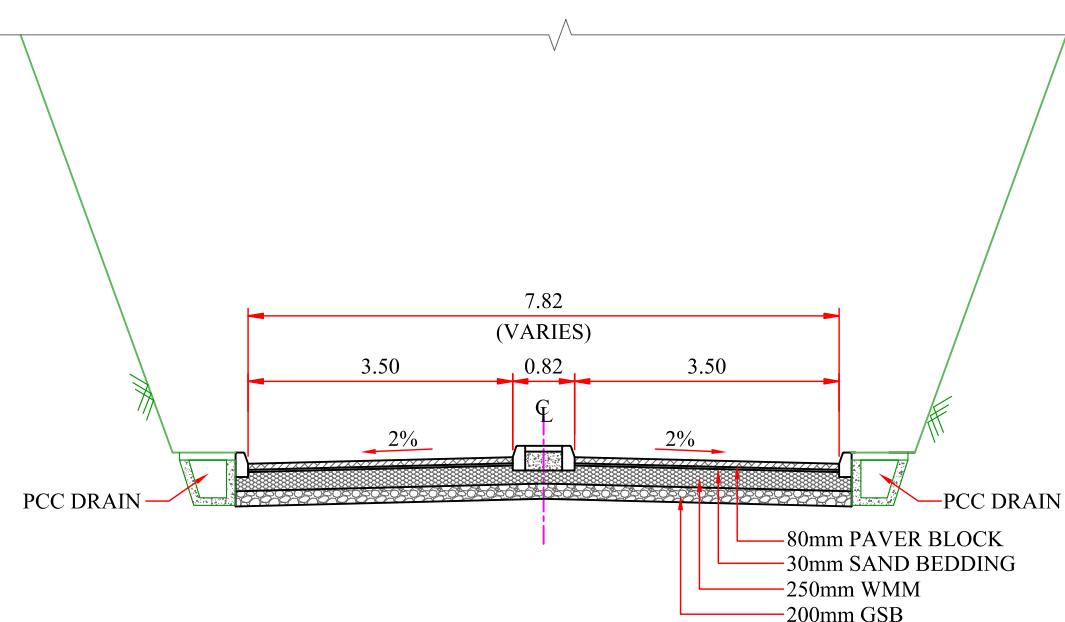
FORMATION LEVELS	1369.500	1369.000	1368.500	1368.000	1367.500	1367.000	1366.500	1365.900	1365.300	1364.700	1364.100	1363.500	1362.900	1362.300	1361.700	1361.100	1360.500	1359.900	1359.300	1358.700	1358.100	1357.500	1356.900	1356.300	1355.700	1355.100	1354.500	1353.900	1353.300	1352.700	1352.100	1351.500	1350.900	1350.300	1349.700	1348.773	1347.846	1346.919	1345.992	1345.065	1344.138	1343.211	1342.284	1341.357	1340.430	1339.503																																																																																																																																																																																																																																																																																																																						
Existing GL/RL	1376.731	1381.449	1386.168	1390.504	1393.483	1387.105	1387.387	1401.246	1402.608	1405.473	1395.681	1403.015	1420.795	1423.858	1427.127	1433.986	1436.412	1437.819	1436.105	1433.518	1432.031	1433.268	1435.864	1434.789	1435.188	1432.977	1424.645	1418.874	1411.018	1405.452	1398.054	1393.369	1392.626	1389.081	1388.223	1374.473	1364.529	1367.655	1359.005	1359.080	1365.900	1365.345	1363.639	1341.989	1340.617	1339.864																																																																																																																																																																																																																																																																																																																						
LEVEL DIFFERENCE	-7.230	-12.449	-17.667	-22.504	-25.983	-20.104	-20.886	-35.346	-37.307	-40.773	-31.580	-39.514	-57.895	-61.557	-65.426	-72.886	-75.911	-77.918	-76.805	-74.817	-73.931	-75.768	-78.964	-78.488	-79.488	-77.876	-70.145	-64.973	-57.718	-52.751	-45.953	-41.868	-41.726	-38.780	-38.523	-25.700	-16.683	-20.737	-13.014	-14.015	-21.761	-22.135	-21.356	-0.632	-0.156																																																																																																																																																																																																																																																																																																																							
HORIZONTAL	L=24.309m		R=75.000m L=42.267m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m		L R=-30.000m L=23.981m</	

- NOTES:
- ALL DIMENSIONS ARE IN mm. & LEVELS ARE IN m. UNLESS OTHERWISE SPECIFIED.
  - DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
  - REQUIREMENT OF ADDITIONAL ROCK SUPPORT SYSTEM SHALL BE DECIDED AT SITE BASED ON MONITORING RESULTS.
  - GRADE OF SHOTCRETE SHALL BE M25.
  - GRADE OF STRUCTURAL STEEL SHALL BE Fe 250.
  - GRADE OF REINFORCEMENT FOR ROCK BOLT SHALL BE Fe 500.
  - THE GROUT SHALL CONSIST OF CEMENT MORTAR (CEMENT / SAND) OF INDICATIVE M15.

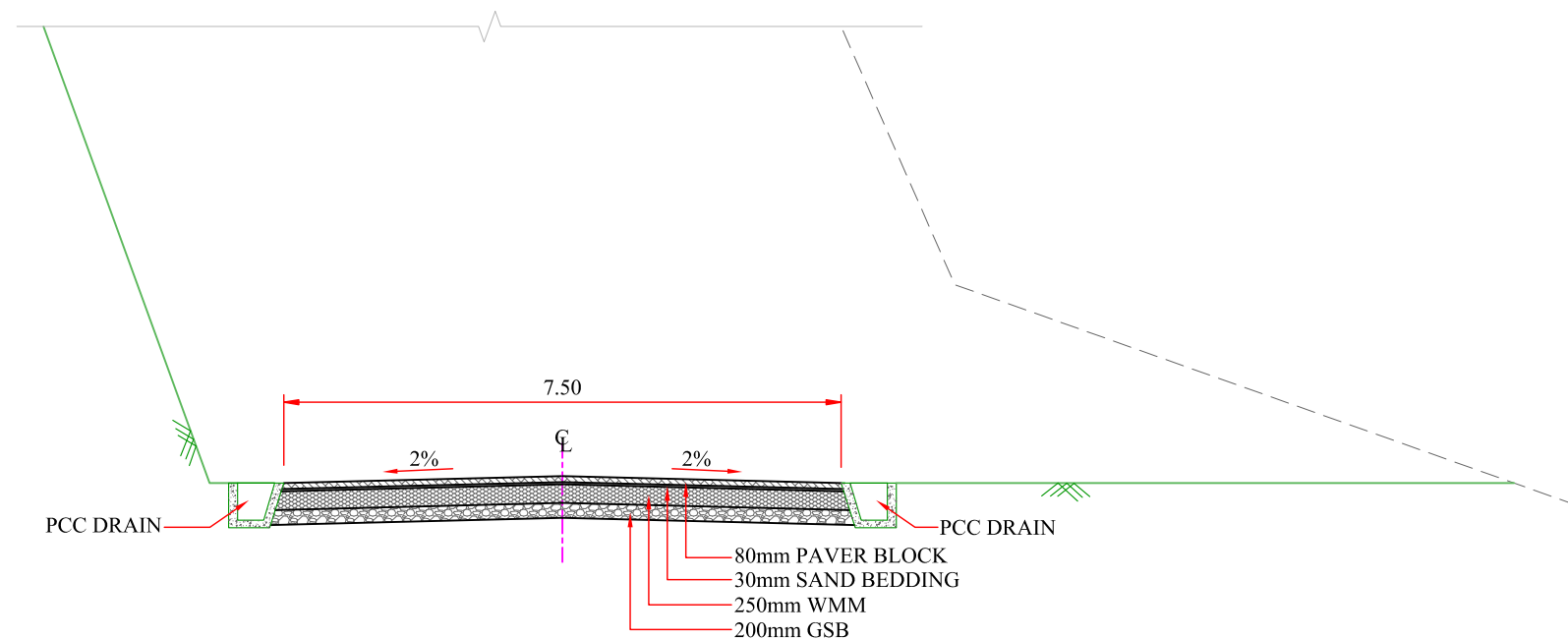
				Project Title :				Client :				Drawing Title : SUPPORT DETAILS FOR PORTAL SLOPES				Design Consultant :			
				Consultancy Services for Preparation of Detailed Project Report for Tunnel Car Parking at Kemtpy Fall (Mussoorie) in the State of Uttarakhand				 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. Ministry of Road Transport & Highways, Government of India				Drawing Number : VKSIMPL/P-136/NHIDCL/SLOPES/01 Scale : NTS Drawn By : Designed By : Checked By : Date : July 2023				 VK S INFRATECH MANAGEMENT PVT. LTD. Consulting Engineers, Planners & Managers Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096 (Ph: 011-45061563)			
Revision Details				By	Chk	Date	Suffix												



**TYPICAL CROSS SECTION OF APPROACH ROAD  
NEAR ENTRY PORTAL (AT CH: 0+105)**




**TYPICAL CROSS SECTION OF APPROACH ROAD  
NEAR EXIT PORTAL (AT CH: 0+345)**



**TYPICAL CROSS SECTION OF APPROACH ROAD  
AT EXIT (CH: 0+400 )**

Revision	By	Chk	Date	Suffix

Project Title :  
**Consultancy Services for Preparation of Detailed  
Project Report for Tunnel Car Parking at Kemtpy Fall  
(Mussoorie) in the State of Uttarakhand**

Client :  
  
**NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION  
LTD.**  
Ministry of Road Transport & Highways, Government of India

Drawing Title :  
**TYPICAL CROSS SECTION**  
Drawing Number :  
VKSIMPL/P-136/NHIDCL/TCS/01  
Scale :  
1:100  
Drawn By :  
Designed By :  
Checked By :  
Date :  
JULY 2023

Design Consultant :  
 **VKS INFRATECH MANAGEMENT PVT. LTD.**  
*Consulting Engineers, Planners & Managers*  
**Raghunath Bhawan, B-17/882, Block-B, Opp Prachin  
Shiv Mandir, New Ashok Nagar, Delhi - 110096  
(Ph: 011-45061563)**