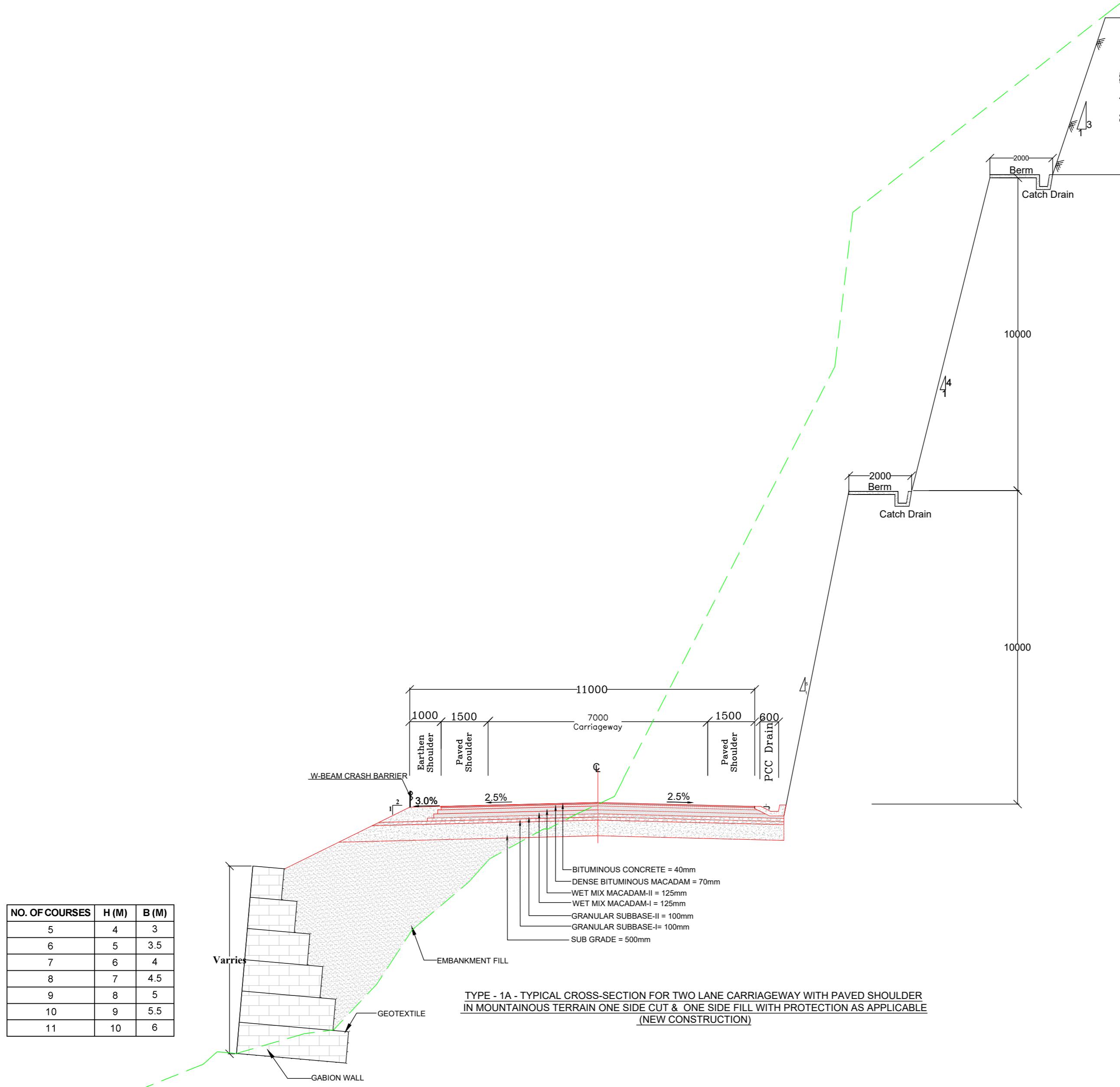


TYPICAL CROSS SECTION



NO. OF COURSES	H (M)	B (M)
5	4	3
6	5	3.5
7	6	4
8	7	4.5
9	8	5
10	9	5.5
11	10	6

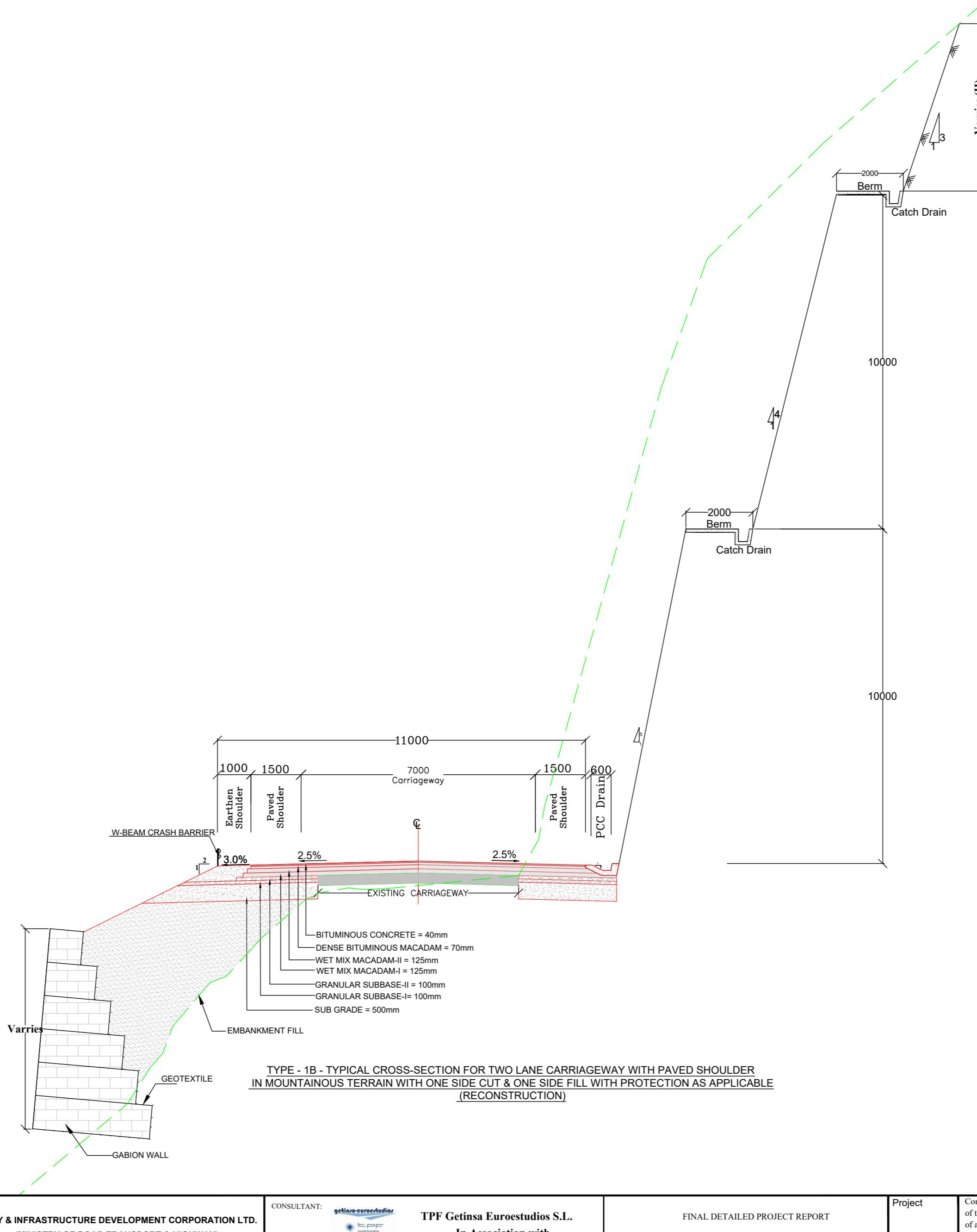
TYPE - 1A - TYPICAL CROSS-SECTION FOR TWO LANE CARRIAGEWAY WITH PAVED SHOULDER
IN MOUNTAINOUS TERRAIN ONE SIDE CUT & ONE SIDE FILL WITH PROTECTION AS APPLICABLE
(NEW CONSTRUCTION)

NOTE:-

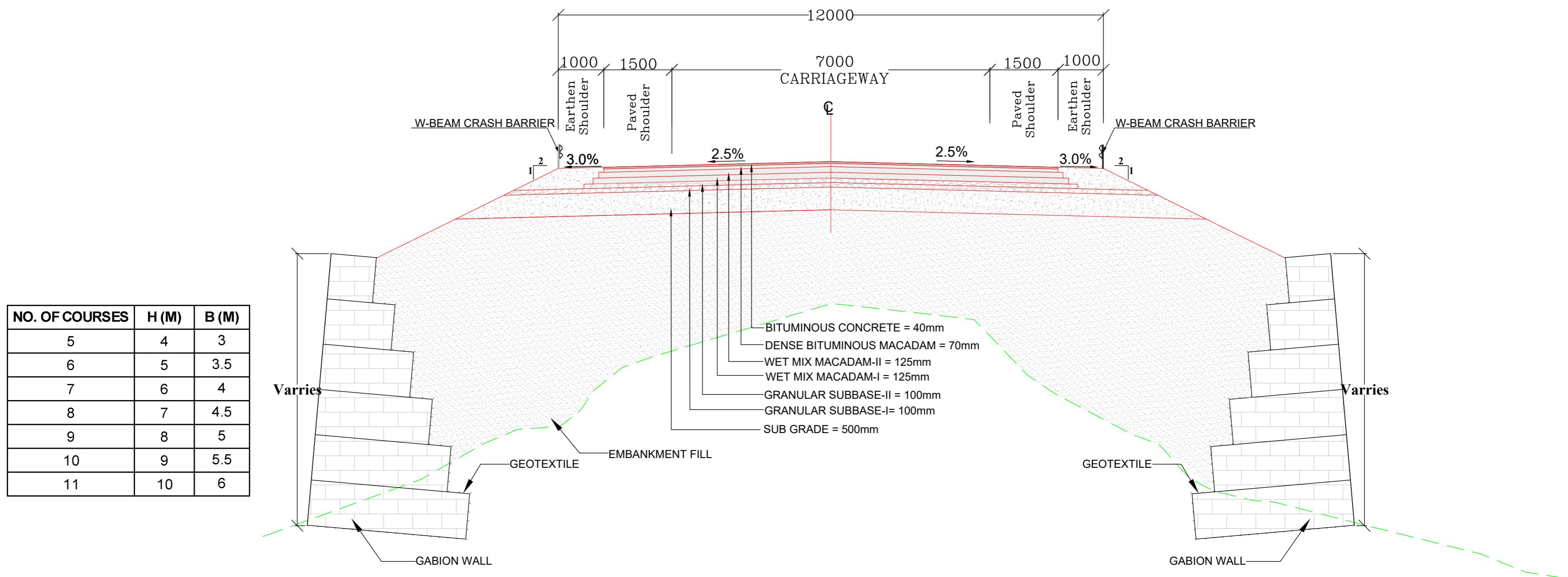
NOTE:

- All Dimensions are in millimeters except otherwise specified**
- For Details of Section ("A") Kindly refer the standard drawing .**
- 3. Retaining wall is provided where height of embankment is greater than 2m.**
- 4. Toe wall is provided where height of embankment is less than 2m.**
- 5. Extra widening will be Provided where radius of horizontal curve is less than 300m.**
- 6. PROW Varies From 24 - 100m.**

ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT:   	TPF Getinsa Euroestudios S.L. In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	Project FINAL DETAILED PROJECT REPORT	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Draga Tunnel of appox. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Goh road portion. (ii) Vaipo Tunnel of approx length 10.00 Km under Sinthan Pass and its approach roads on Goha - Kellani - Khatabal road portion & the extended road section from Goha side approach road of Sudhmahadev - Draga tunnel up to Kheleti town.
R0	Oct.-2019					Designed: <input type="checkbox"/>	Scale :- N.T.S.
R1	Apr.-2020					Drawn: <input type="checkbox"/>	Drawing Title
						Checked: <input type="checkbox"/>	TYPICAL CROSS SECTION
						Approved: <input type="checkbox"/>	Drawing No. RCPL-TPF-3-BHC-01-R1



ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT:  TPF Getinsa Euroestudios S.L. In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	FINAL DETAILED PROJECT REPORT	Project	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Drang Tunnel of approx. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohar road portion. (ii) 'i' also Tunnel of approx length 10.00 Km under Sinthan Pass and its approach roads on Goha - Khella ni - Khanaal road portion & the extended road section from Goha side approach road of Sudhmahadav Drang tunnel upto Khella ni town.
R0	Oct.-2019					Designed: Drawn: Checked: Approved:	Scale :- N.T.S.
R1	Apr.-2020						Drawing Title TYPICAL CROSS SECTION
							Drawing No. RCPL-TPF-3-BHC-02-R1

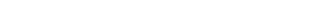


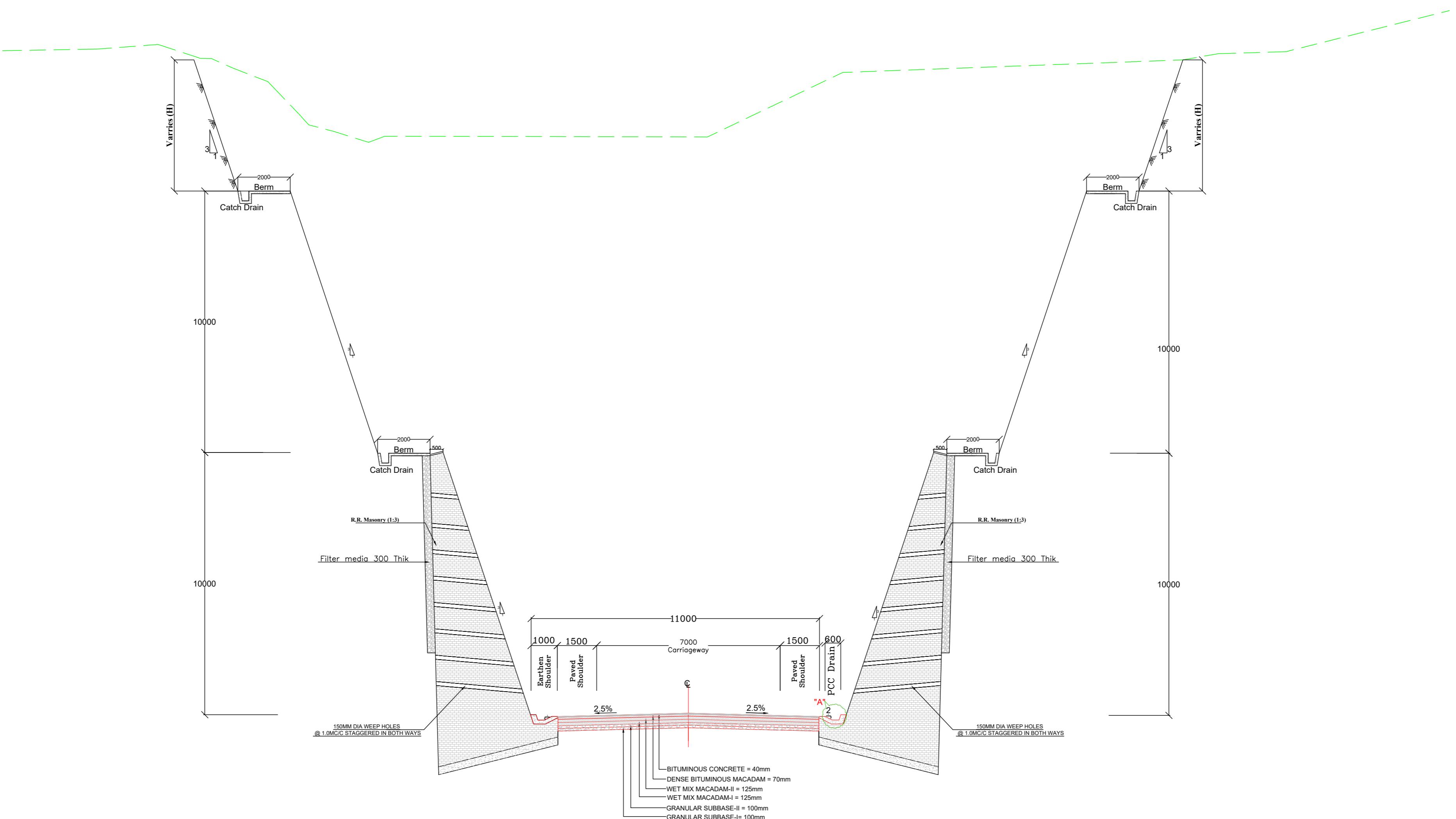
TYPE - 2 - TYPICAL CROSS-SECTION FOR TWO LANE CARRIAGEWAY WITH PAVED SHOULDER
IN MOUNTAINOUS TERRAIN WITH BOTH SIDE FILL & WITH PROTECTION ON EITHER SIDE AS APPLICABLE
(NEW CONSTRUCTION)

NOTE:-

NOTE:-

- All Dimensions are in millimeters except otherwise specified**
- For Details of Section ("A") Kindly refer the standard drawing .**
- Retaining wall is provided where height of embankment is greater than 2m.**
- Toe wall is provided where height of embankment is less than 2m.**
- Extra widening will be Provided where radius of horizontal curve is less than 300m.**
- PROW Varies From 24 - 100m.**

ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT:  TPF Getinsa Euroestudios S.L. In Association with  RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	Project FINAL DETAILED PROJECT REPORT	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir: (i) Sudhmahadev - Dargah Tunnel of approx. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohpora portion. (ii) Vailoo Tunnel of approx. length 10.00 Km under Srinagar Pass and its approach roads on Gohra - Khellani - Kharbal road portion & the extended road section from Gohra side approach road of Sudhmahadev-Dargah tunnel up to Khellani town.	
R0	Oct.-2019						
R1	Apr.-2020						



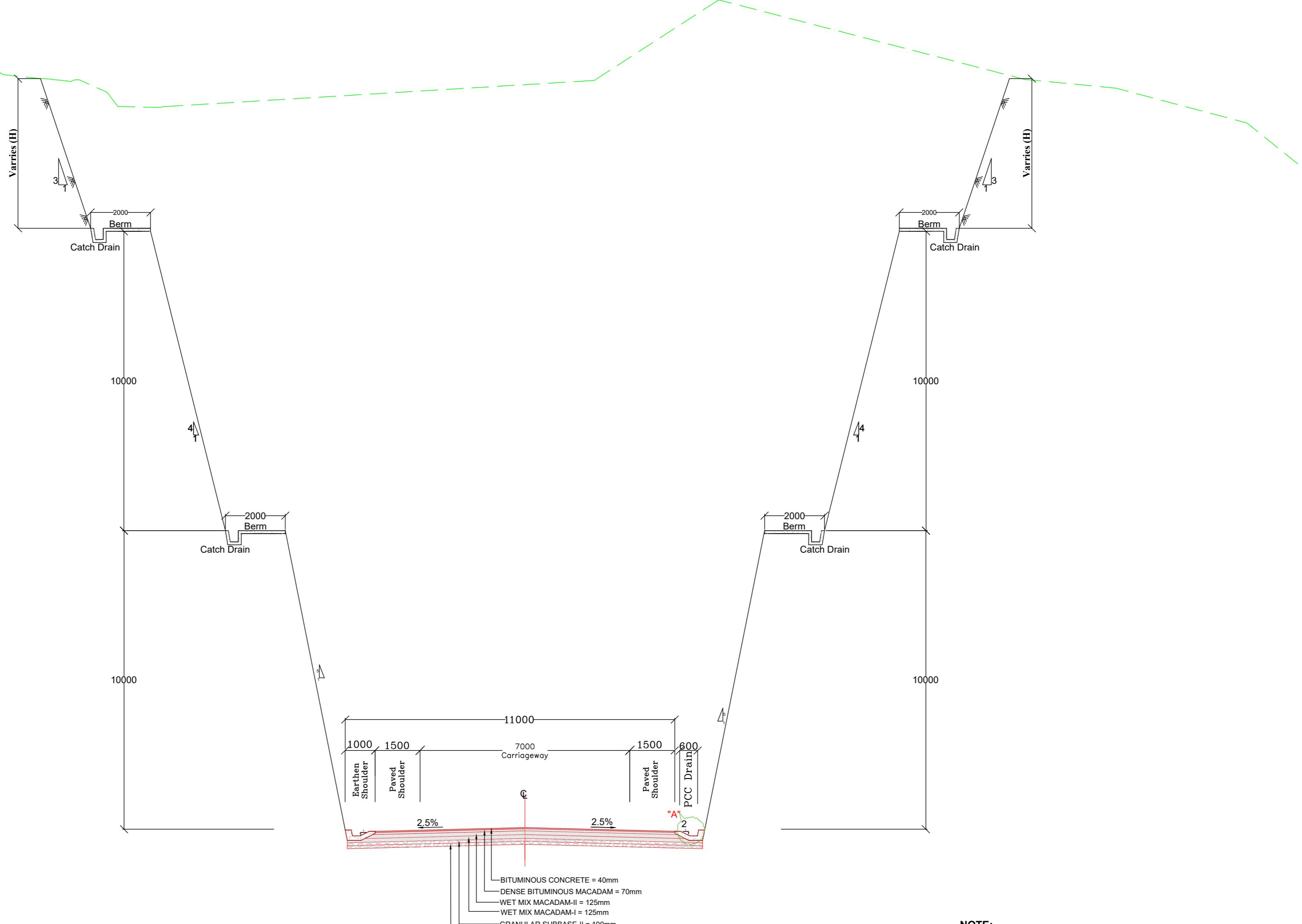
TYPE - 3- TYPICAL CROSS-SECTION FORTWO LANE CARRIAGEWAY WITH PAVED SHOULDER
IN MOUNTAINOUS TERRAIN WITH BOTH SIDE CUT & WITH PROTECTION ON EITHER SIDE AS APPLICABLE
(NEW CONSTRUCTION)

NOTE:-

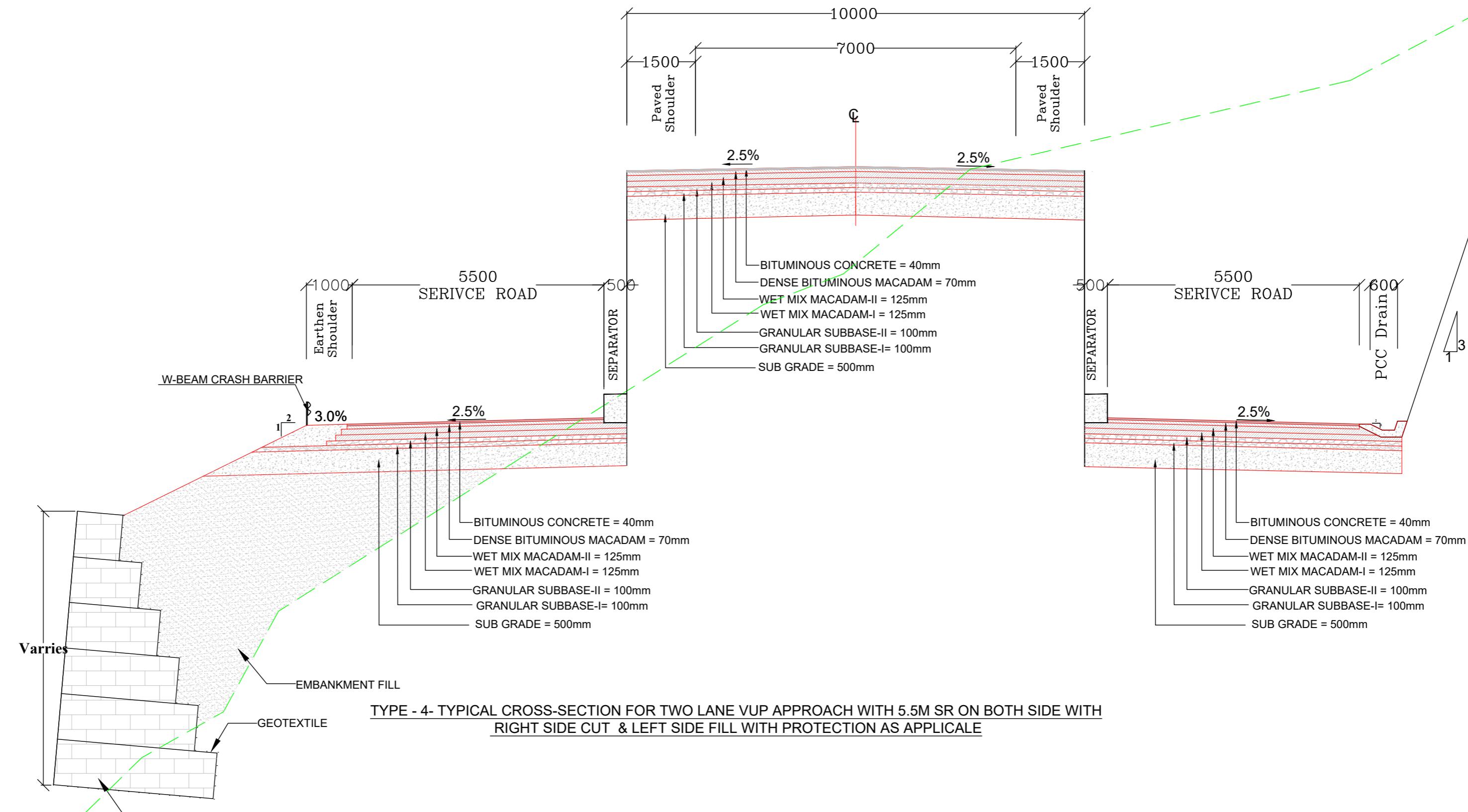
NOTE:

1. All Dimensions are in millimeters except otherwise specified
2. For Details of Section ("A") Kindly refer the standard drawing .
3. Retaining wall is provided where height of embankment is greater than 2m.
4. Toe wall is provided where height of embankment is less than 2m.
5. Extra widening will be Provided where radius of horizontal curve
is less than 300m.
6. PROW Varies From 24 - 100m.

ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA 	CONSULTANT:   	TPF Getinsa Euroestudios S.L. In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	Project	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Drang Tunnel of appox. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohar road portion (ii) Viloo Tunnel of approx length 10.00 Km under Sinthan Pass and its approach roads on Goha - Kehllian - Khanabal road portion & the extended road section from Goha side approach road of Sudhmahadev Drang tunnel upto Kehllian town.		
R0	Oct.-2019	FINAL DETAILED PROJECT REPORT			Designed:				
R1	Apr.-2020				Drawn:				
					Checked:				
					Approved:				
		Drawing Title			TYPICAL CROSS SECTION				
					Drawing No. RCPL-TPF-3-BHC-04-R1				



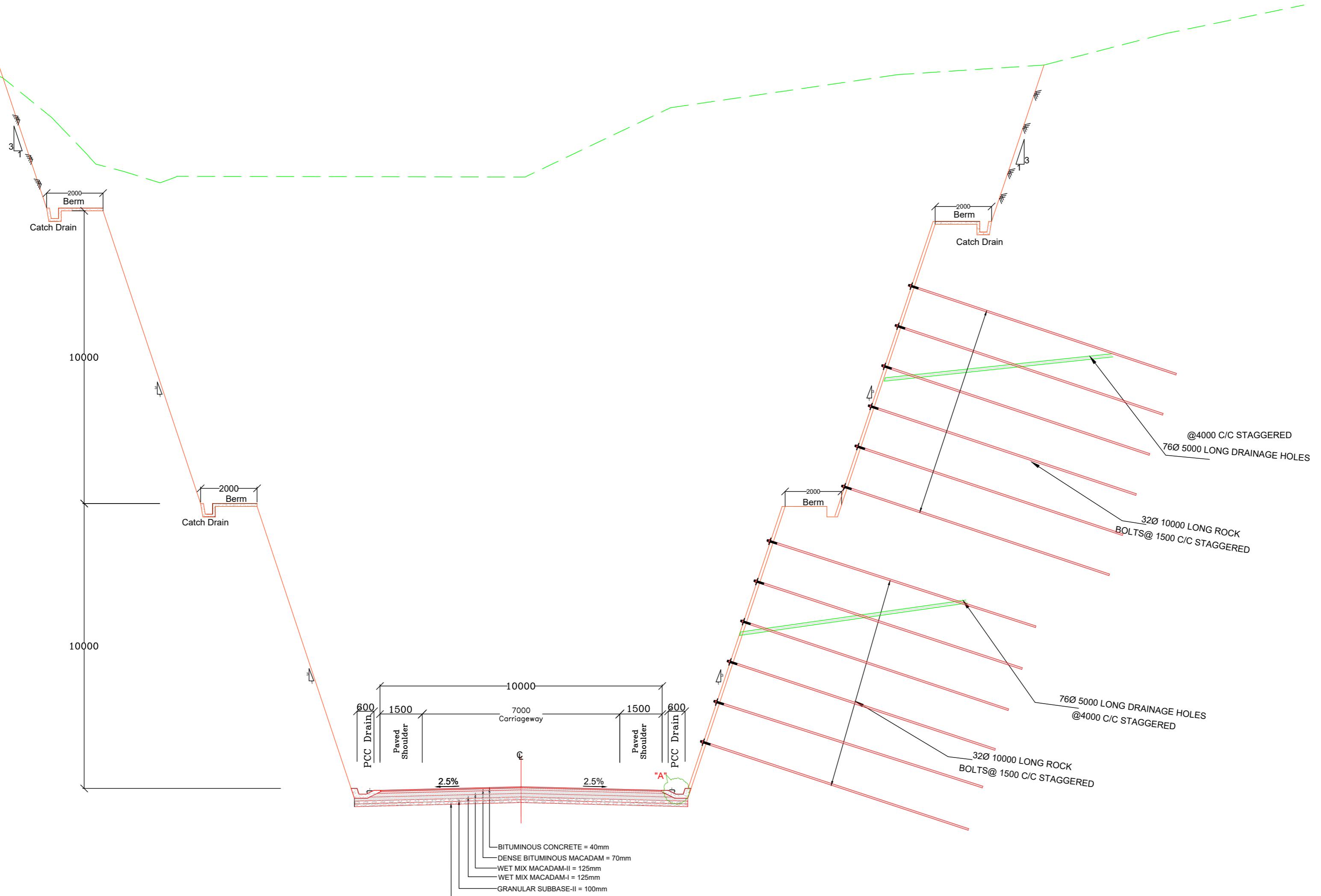
ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT: getinsa-euroestudios TPF In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	FINAL DETAILED PROJECT REPORT	Project	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Dranga Tunnel of approx. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohla road portion. (ii) Vailoo Tunnel of approx length 10.00 Km under Sinthan Pass and its approach roads on Goha - Khellani - Khanabal road portion & the extended road section from Goha side approach road of Sudhmahadev Daranga tunnel upto Khellani town.
R0	Oct.-2019						
R1	Apr.-2020						
					Designed: Drawn: Checked: Approved:	Scale :- N.T.S.	Drawing Title TYPICAL CROSS SECTION
							Drawing No. RCPL-TPF-3-BHC-05-R1



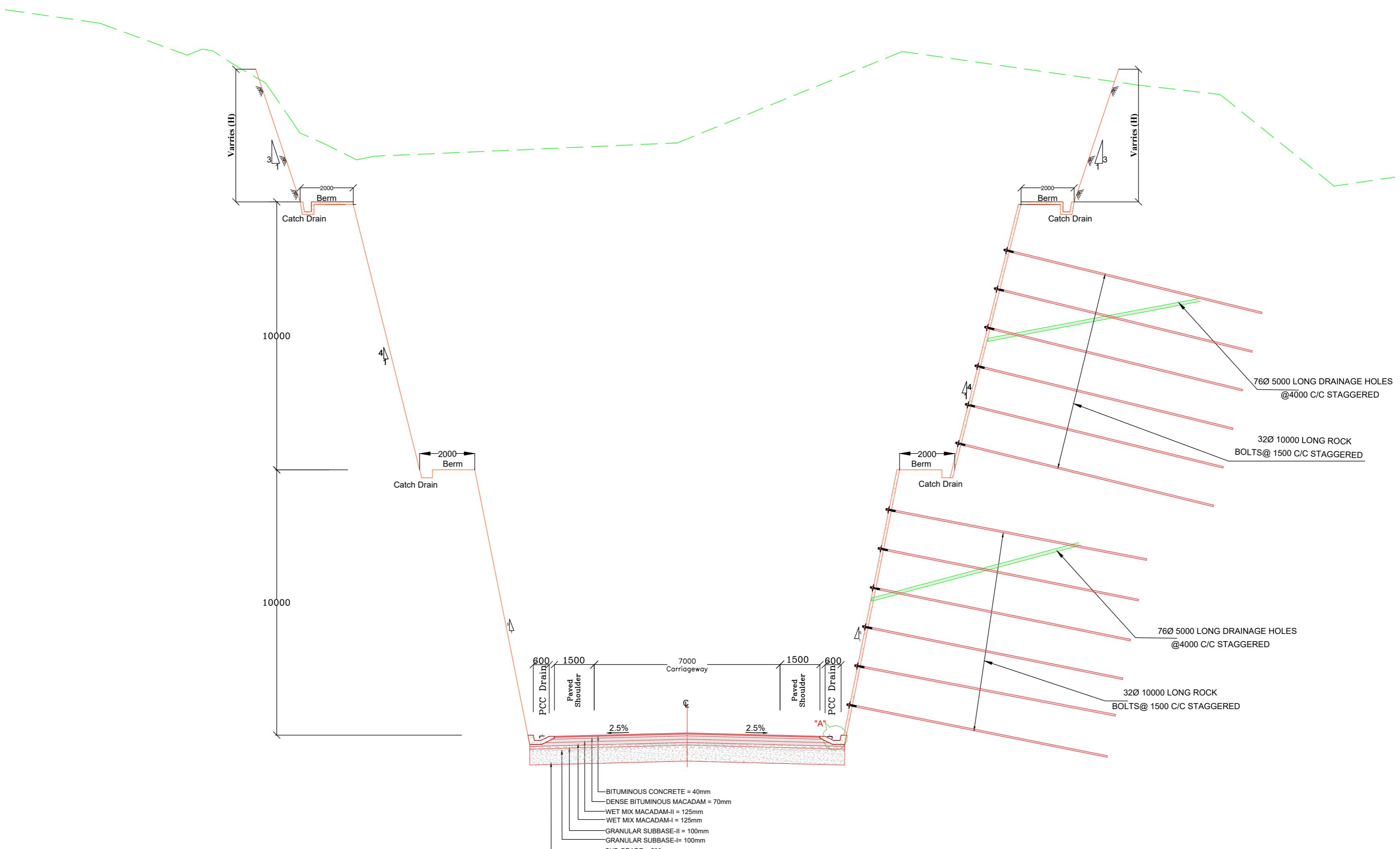
NOTE:-

1. All Dimensions are in millimeters except otherwise specified
2. For Details of Section ("A") Kindly refer the standard drawing .
3. Retaining wall is provided where height of embankment is greater than 2m.
4. Toe wall is provided where height of embankment is less than 2m.
5. Extra widening will be Provided where radius of horizontal curve is less than 300m.
6. PROW Varies From 24 - 100m.

ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT: getinsa-eurostudios TPF In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	FINAL DETAILED PROJECT REPORT	Project	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Dranga Tunnel of approx. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohla road portion. (ii) Vailoo Tunnel of approx length 10.00 Km under Srinagar Pass and its approach roads on Gohla - Khellani - Khanabal road portion & the extended road section from Gohla side approach road of Sudhmahadev Daranga tunnel upto Khellani town.	
R0	Oct.-2019				Designed: Checked: Approved:	Scale :- N.T.S.		
R1	Apr.-2020						Drawing Title	TYPICAL CROSS SECTION
							Drawing No.	RCPL-TPF-3-BHC-06-R1



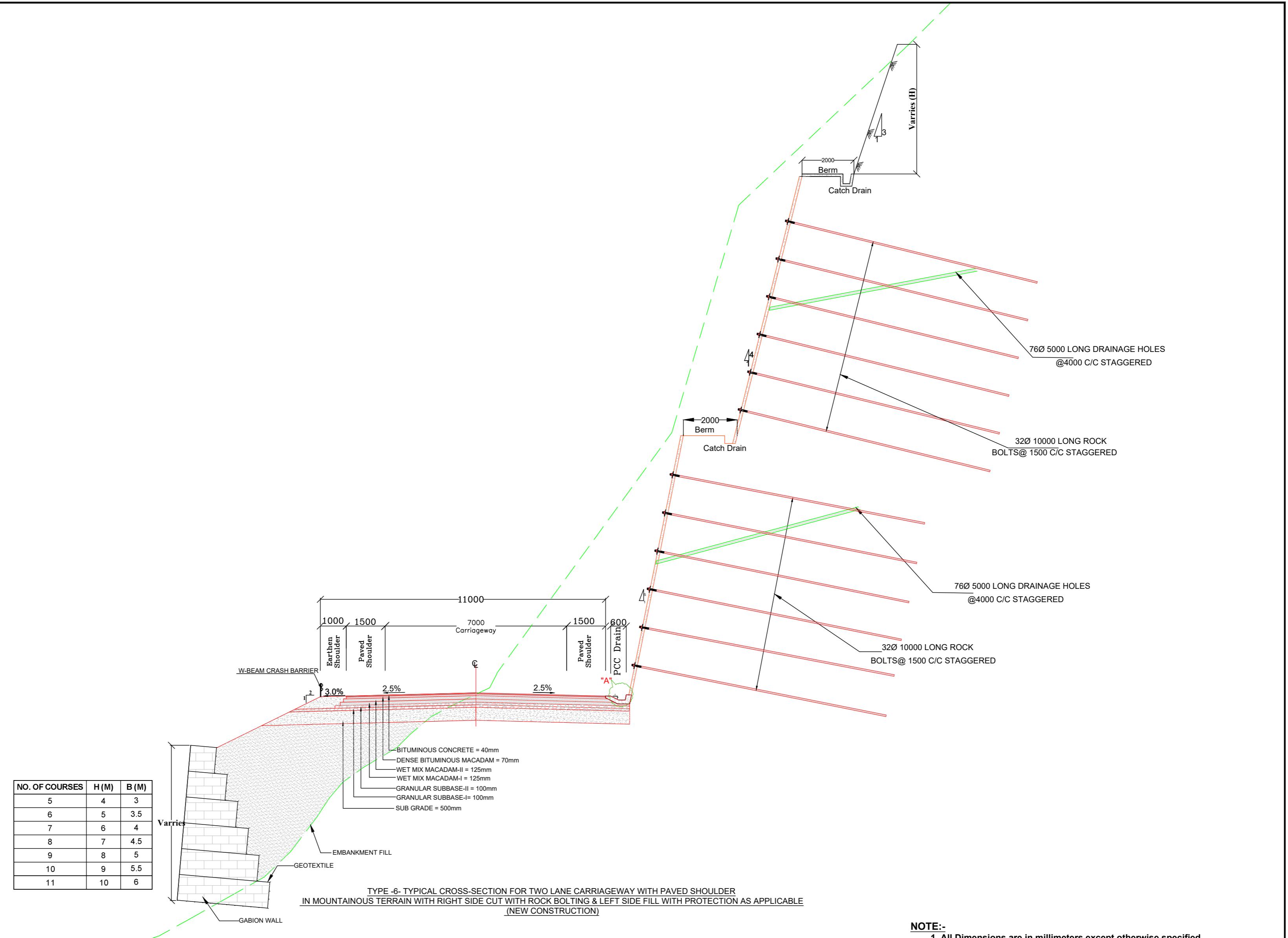
ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT: getinsa-euroestudios TPF Getinsa Euroestudios S.L. In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	FINAL DETAILED PROJECT REPORT	Project	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Dranga Tunnel of approx. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohla road portion. (ii) Vailoo Tunnel of approx length 10.00 Km under Srinagar Pass and its approach roads on Gohla - Khellani - Khanabal road portion & the extended road section from Gohla side approach road of Sudhmahadev Daranga tunnel upto Khellani town.
R0	Oct.-2019						
R1	Apr.-2020						
Designated:	Checked:	Approved:	Scale :- N.T.S.	Drawing Title	TYPICAL CROSS SECTION		
							Drawing No. RCPL-TPF-3-BHC-07-R1



NOTE:-

1. All Dimensions are in millimeters except otherwise specified
2. For Details of Section ("A") Kindly refer the standard drawing .
3. Retaining wall is provided where height of embankment is greater than 2m.
4. Toe wall is provided where height of embankment is less than 2m.
5. Extra widening will be Provided where radius of horizontal curve is less than 300m.
6. PROW Varies From 24 - 100m.

ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA	CONSULTANT: getinsa-euroestudios TPF In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	FINAL DETAILED PROJECT REPORT	Project	Consultancy Services for Preparation of Detailed Project Report and providing Pre-Construction activities in respect of the following stretches on NH-244 (old NH-1B) in the State of Jammu & Kashmir. (i) Sudhmahadev - Dranga Tunnel of approx. length 4.5 Km and its approach roads on Chenani - Sudhmahadev - Gohla road portion. (ii) Vailoo Tunnel of approx length 10.00 Km under Sinthan Pass and its approach roads on Goha - Khellani - Khanabal road portion & the extended road section from Goha side approach road of Sudhmahadev Daranga tunnel upto Khellani town.
R0	Oct.-2019						
R1	Apr.-2020						
					Designed: Drawn: Checked: Approved:	Scale :- N.T.S.	Drawing Title TYPICAL CROSS SECTION
							Drawing No. RCPL-TPF-3-BHC-08-R1



NO. OF COURSES	H (M)	B (M)
5	4	3
6	5	3.5
7	6	4
8	7	4.5
9	8	5
10	9	5.5
11	10	6

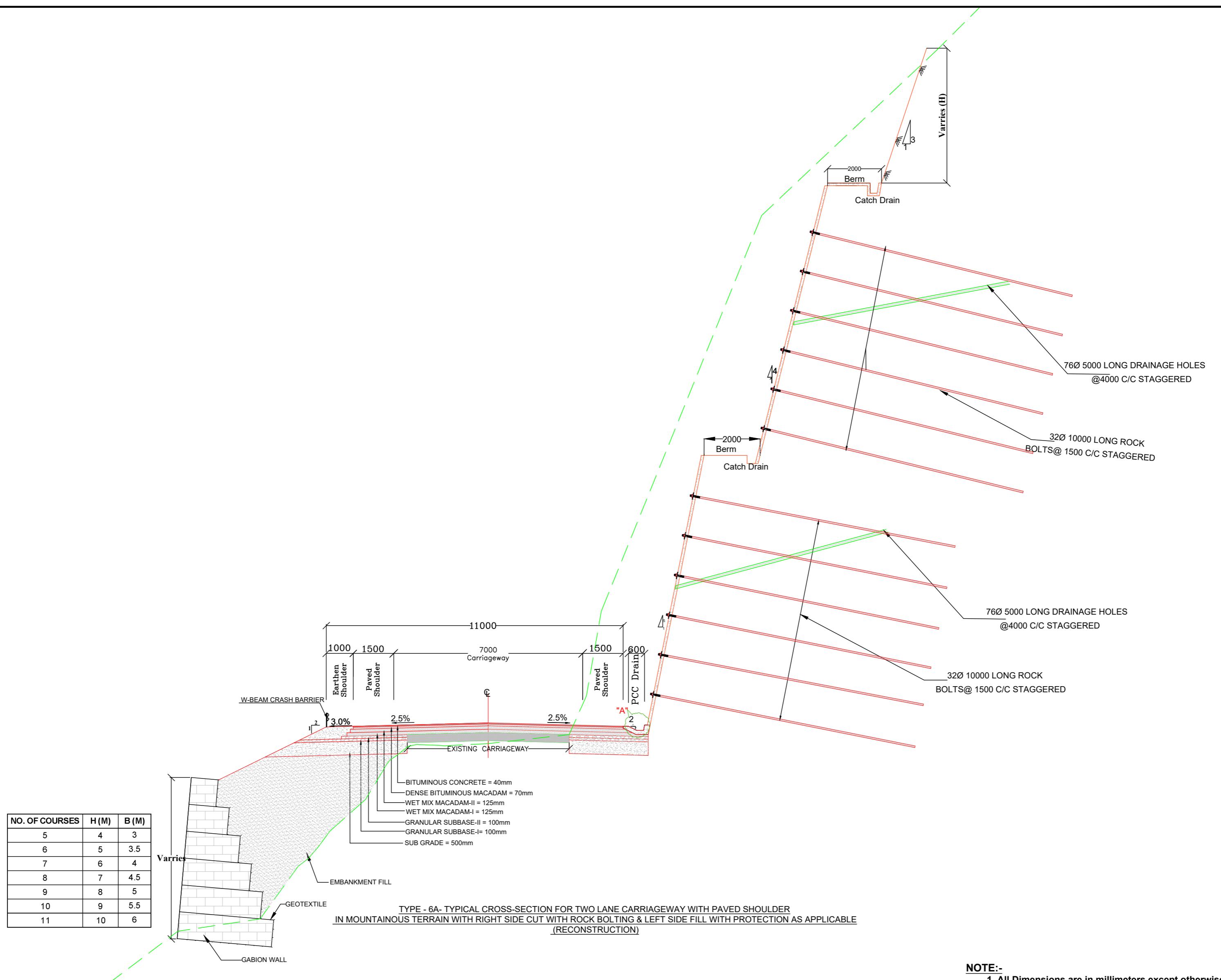
TYPE -6- TYPICAL CROSS-SECTION FOR TWO LANE CARRIAGeway WITH PAVED SHOULDER
IN MOUNTAINous TERRAIN WITH RIGHT SIDE CUT WITH ROCK BOLTING & LEFT SIDE FILL WITH PROTECTION AS APPLICABLE
(NEW CONSTRUCTION)

NOTE:-

NOTE:-

- All Dimensions are in millimeters except otherwise specified**
- For Details of Section ("A") Kindly refer the standard drawing .**
- 3. Retaining wall is provided where height of embankment is greater than 2m.**
- 4. Toe wall is provided where height of embankment is less than 2m.**
- 5. Extra widening will be Provided where radius of horizontal curve
is less than 300m.**
- 6. PROW Varies From 24 - 100m.**

ISSUE	DATE	AMENDMENT \ ISSUE DESCRIPTION	CLIENT NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT & HIGHWAY) GOVERNMENT OF INDIA 	CONSULTANT:   	TPF Getinsa Euroestudios S.L. In Association with RODIC CONSULTANTS PVT. LTD. 1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING NEW DELHI - 110001 (INDIA)	Project FINAL DETAILED PROJECT REPORT
R0	Oct.-2019					Designed: <input type="checkbox"/>
R1	Apr.-2020					Drawn: <input type="checkbox"/>
						Checked: <input type="checkbox"/>
						Approved: <input type="checkbox"/>
					Scale :- N.T.S.	
					Drawing Title	TYPICAL CROSS SECTION
					Drawing No.	RCPL-TPF-3-BHC-09-R1



NO. OF COURSES	H (M)	B (M)
5	4	3
6	5	3.5
7	6	4
8	7	4.5
9	8	5
10	9	5.5
11	10	6

TYPE - 6A- TYPICAL CROSS-SECTION FOR TWO LANE CARRIAGEWAY WITH PAVED SHOULDER
IN MOUNTAINOUS TERRAIN WITH RIGHT SIDE CUT WITH ROCK BOLTING & LEFT SIDE FILL WITH PROTECTION AS APPLICABLE
(RECONSTRUCTION)

NOTE:-

NOTE:-

- All Dimensions are in millimeters except otherwise specified**
- For Details of Section ("A") Kindly refer the standard drawing .**
- Retaining wall is provided where height of embankment is greater than 2m.**
- Toe wall is provided where height of embankment is less than 2m.**
- Extra widening will be Provided where radius of horizontal curve is less than 300m.**
- PROW Varies From 24 - 100m.**