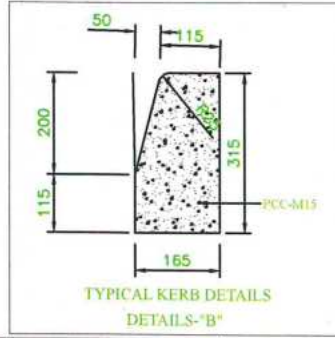
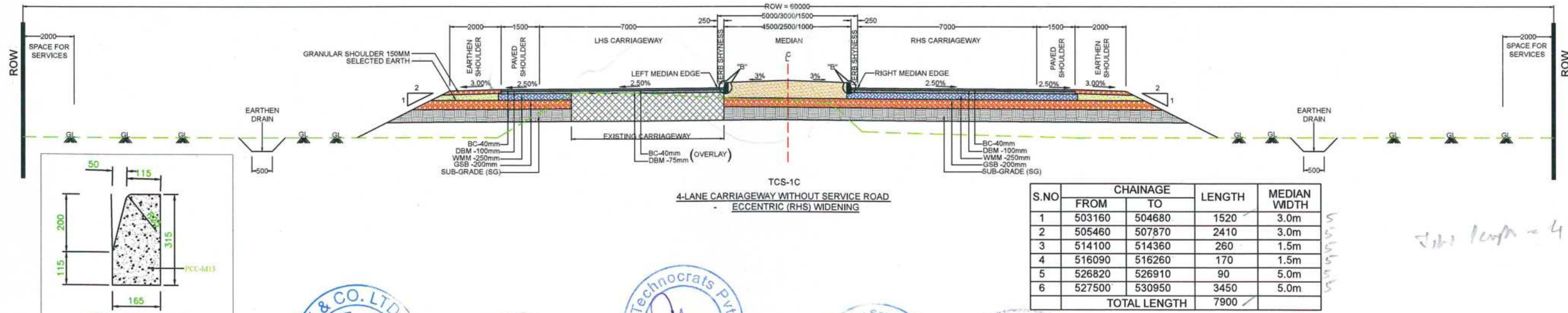
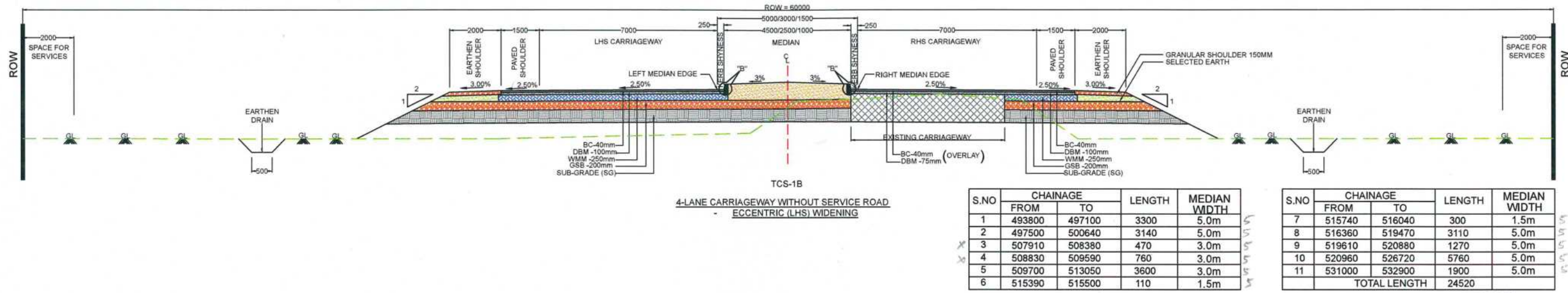
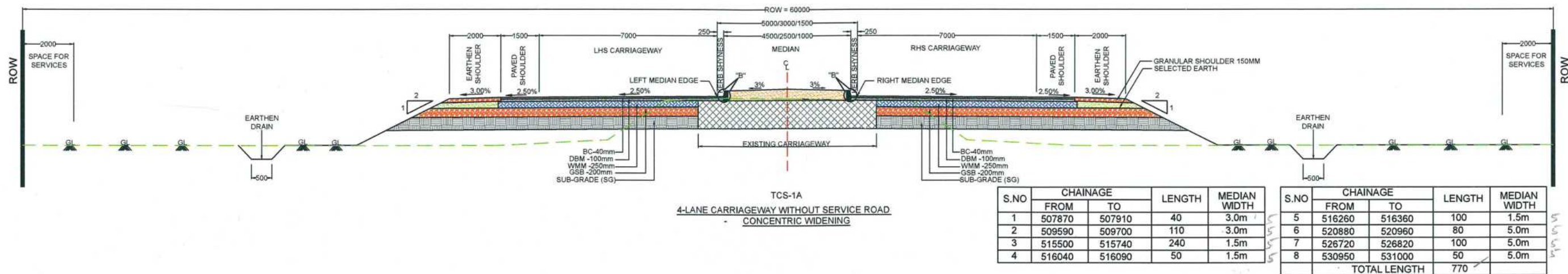


(TYPICAL CROSS SECTION)



REV	DATE	DESCRIPTION OF REVISIONS
R02	DEC-20	CHANGE MEDIAN WIDTH
R01	NOV-20	CHANGE IN TCS-5.6 & 7A
R0	MAR-20	FOR APPROVAL

CLIENT :

NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

EPC CONTRACTOR :

M/s Gannon Dunkerley & Co. Ltd.
86A, Terna Road (South)
14th Floor, Terna's 7th Floor
Kharadi, Pune-411004

DESIGN CONSULTANT :

M/s Estatic Engineering Consultants Pvt. Ltd.
Sec-145, 2nd Floor, HUDA
Shopping Center, Sector-55
Gurgaon-122011, Haryana

PROOF CONSULTANT :

Marc Technocrats Private Limited.
Corp. Office: Max House, SCO-1,
Sector-6-7, Droning Road Opp. Devi Lal
Park, Bahadurgarh, Haryana-124507
Tel. +91-1276-645290
E-mail: met_10@rediffmail.com

SAFETY CONSULTANT :

G-Engineering Advisory Services Pvt. Ltd.
S/O-102, HUDA Shopping Center,
Sector-55 Gurgaon-122011, Haryana
Tel. +91-1224-4295802, 05 Fax: 024-2592006
E-mail: info@g-eng.in, www.g-eng.in

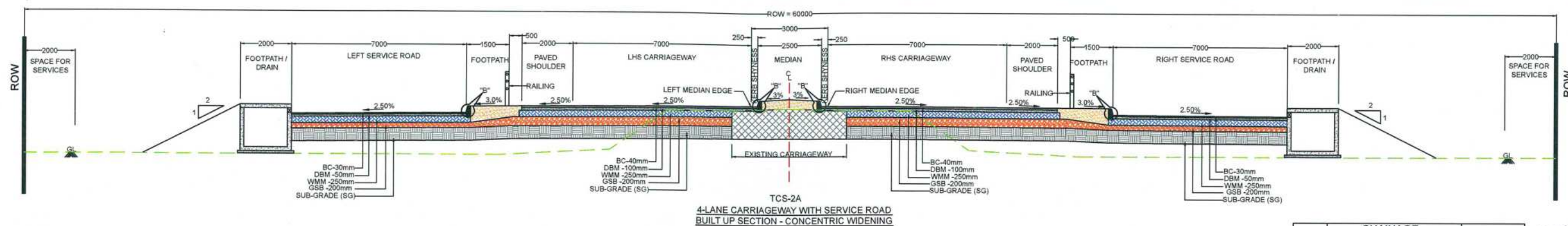
AUTHORITY ENGINEER :

Voyants Solutions Pvt. Ltd.
BPTV Park, Centre 403, 4th,
Block A, Jal Vayu Yuh, Sector
30, Gurgaon, Haryana 122001

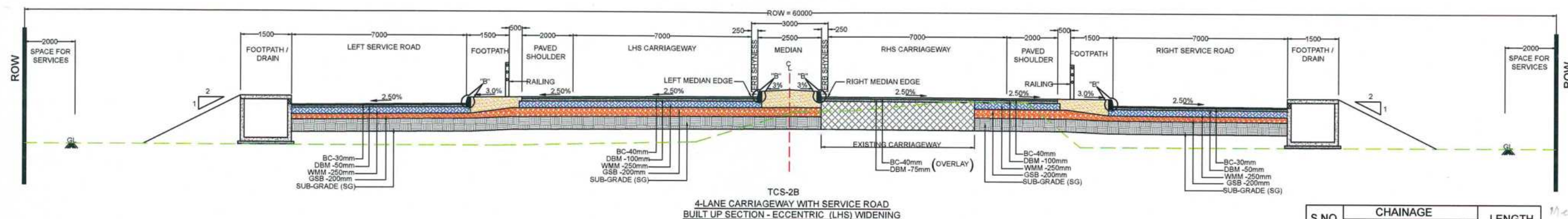
PROJECT :
FOUR LANE OF JHANJI TO
DEMOW SECTION FROM KM. 491+050
TO 535+250 (DESIGN KM. 490+800 TO
KM. 534+800) OF NH-57 IN THE STATE
OF ASSAM UNDER SARDP ON
ENGINEERING PROCUREMENT &
CONSTRUCTION (EPC) MODE.

DRAWN BY	Mr. DEV	STATUS :	DETAILED DESIGN
DESIGNED BY	Mr. A.K.	TITLE :	TYPICAL CROSS SECTIONS
CHECKED BY	Sh. L.K.	DRG NO. :	NHIDCL/GDCL/G-ENG/19038/TCS01
APPROVED BY	Sh. A.G.		
DATE	DEC-20		

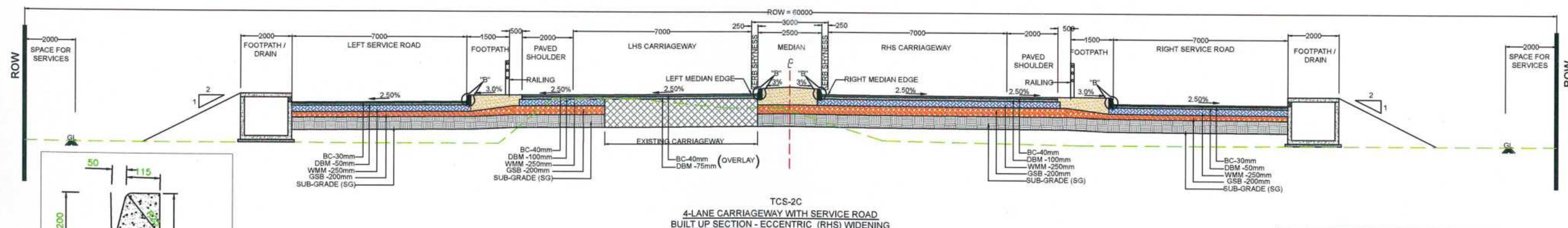
NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.



S.NO	CHAINAGE		LENGTH
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1	501280	501890	610
	TOTAL LENGTH		610



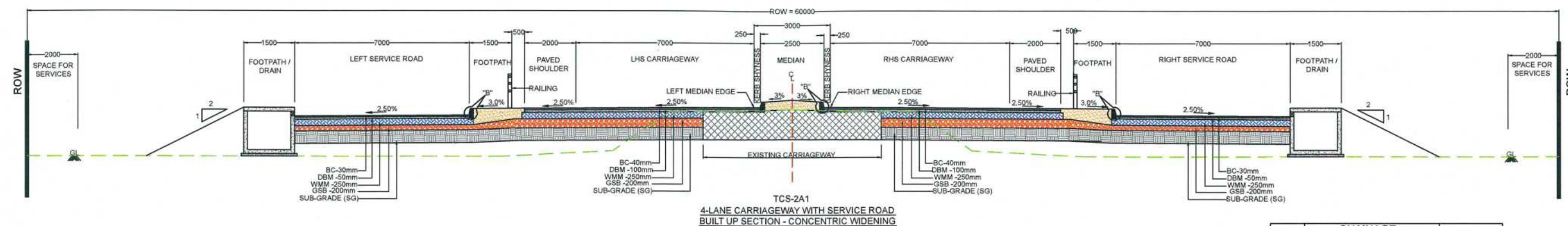
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	FROM	TO	
1	534370	534810	440
	TOTAL LENGTH		440



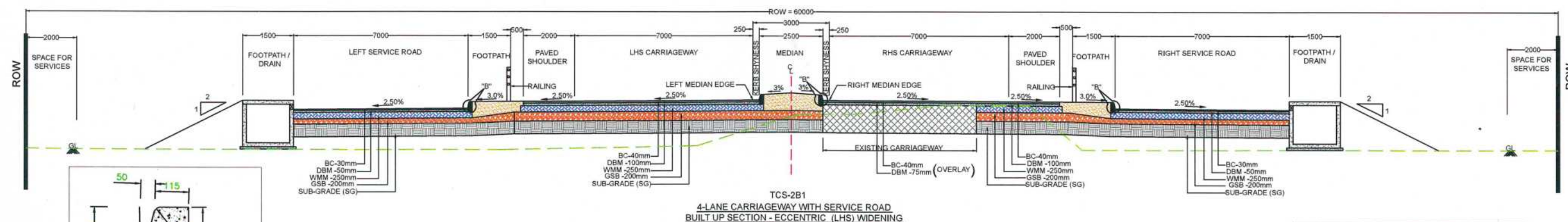
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	FROM	TO	
1	502810	503160	350
	TOTAL LENGTH		350

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

			CLIENT :	EPC CONTRACTOR :	DESIGN CONSULTANT :	PROOF CONSULTANT :	SAFETY CONSULTANT :	AUTHORITY ENGINEER :	PROJECT :	1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.					
R02	DEC-20	CHANGE MEDIAN WIDTH	 NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED	 M/s Gannon Dunkerley & Company Ltd. Plot No. 19, Sector-55, Gurgaon - 750046	 M/s Ecstasy Engineering Consultants Pvt. Ltd. SCO-102, HUDA Shopping Center-Sector-55 Gurgaon-122011 (Hr) INDIA	 Marc Technocrats Private Limited. Corporate Office: Marc House SCO-1, Sector-6-7, DDA Road Opp. Devi Lal Park, Bahadurgarh, Haryana-124507 Tel. +91-1276-645290 E-mail: mct_rk@rediffmail.com	 G-Engineering Advisory Services Pvt. Ltd. SOCO-102, HUDA Shopping Center, Sector-55 Gurgaon-122011 (Hr) INDIA Tel. +91-1276-645290/05 Fax: 124-2592006 E-mail info@g-eng.in web www.g-eng.in	 Voyant Solutions Pvt. Ltd. BPT Park Centre, 803, 4th Floor, Plot No. 19, Sector-55, Gurgaon, Haryana 122001	FOUR LANE OF JHANJHI TO DEMOW SECTION FROM KM. 491+050 TO 535+250 (DESIGN KM. 490+800 TO KM. 534-800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE.	DRAWN BY	Mr. DEV	STATUS :	DETAILED DESIGN		
R01	NOV-20	CHANGE IN TCS -5.6 & 7A								DESIGNED BY	Mr. A K			TITLE :	TYPICAL CROSS SECTIONS
R0	MAR-20	FOR APPROVAL								CHECKED BY	Sh. L.K	APPROVED BY	Sh. A.G		
REV	DATE	DESCRIPTION OF REVISIONS								DATE:	DEC -20				



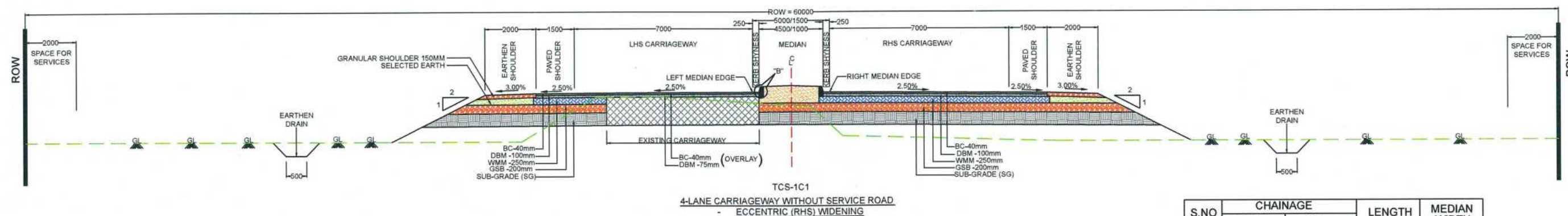
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	TOTAL LENGTH		360



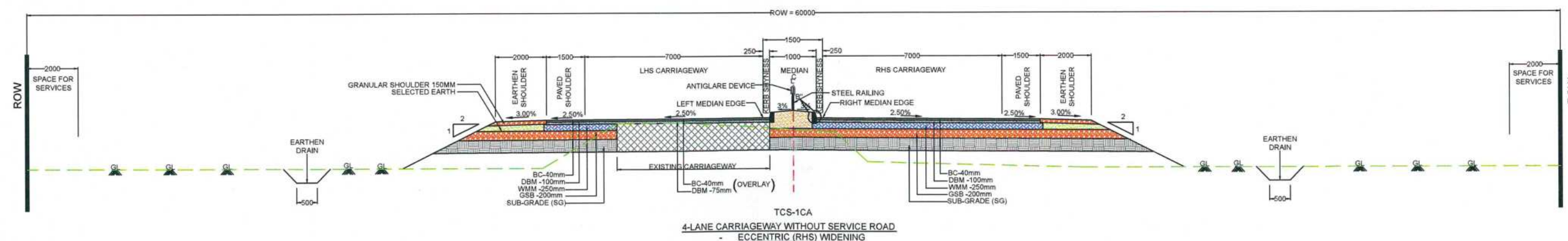
S.NO	CHAINAGE		LENGTH
	FROM	TO	
1	532900	533240	340
	TOTAL LENGTH		340

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

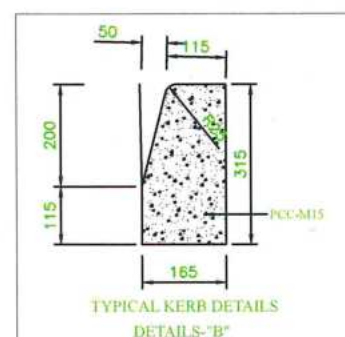
			CLIENT :-	EPCC CONTRACTOR :-	DESIGN CONSULTANT :-	PROOF CONSULTANT :-	SAFETY CONSULTANT :-	AUTHORITY ENGINEER :-	PROJECT :-	T. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.					
									FOUR LANE OF JHANJHI TO DEMON SECTION FROM KM. 481+050 TO 535+250 (DESIGN KM. 490+800 TO KM. 534+800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE.	DRAWN BY	Mr. DEV	STATUS :-	DETAILED DESIGN		
R02	DEC-20	CHANGE MEDIAN WIDTH		M/s Gannon Dunkerley & Company Ltd.	M/s Eashtec Engineering Consultants Pvt. Ltd.	Marc Technocrats Private Limited.	G-Engineering Advisory Services Pvt. Ltd.	Voyants Solutions Pvt. Ltd.		DESIGNED BY	Mr. A.K				
R01	NOV-20	CHANGE IN TCS -5.6 & 7A	NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED	Plot No. 70A, Torana Road (South), Hauz Khas, 7th Floor, New Delhi - 110016	SCO-102, HUDRA Shopping Center, Sector-67, Dividing Road Opp. Devi Lal Park, Bahadurgarh, Haryana-124507 Tel: +91-1276-645290	Office: Main House, SCO-1, Sector-67, Dividing Road Opp. Devi Lal Park, Bahadurgarh, Haryana-124507 Tel: +91-1276-645290	SCO-102, HUDRA Shopping Center, Sector-67, Dividing Road Opp. Devi Lal Park, Bahadurgarh, Haryana-124507 Tel: +91-1276-645290	Plot No. 70A, Torana Road (South), Hauz Khas, 7th Floor, New Delhi - 110016		CHECKED BY	Sh. L.K	TITLE :-	DETAILED CROSS SECTIONS		
R0	MAR-20	FOR APPROVAL								APPROVED BY	Sh. A.G				
REV	DATE	DESCRIPTION OF REVISIONS								DATE:	DEC -20	DRG. NO. :-	NHIDCL/GDCL/G-ENG/19038/TCS/2		



S.NO	CHAINAGE		LENGTH	MEDIAN WIDTH
	FROM	TO		
1	491600	492150	550	1.5m ✓
2	492550	493700	1250	1.5m ✓
3	493700	493800	100	5.0m ✓
4	497100	497500	400	5.0m ✓
TOTAL LENGTH			2200	2300

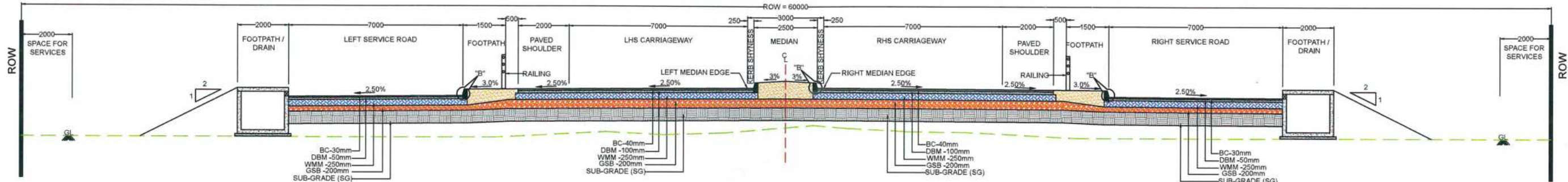


S.NO	CHAINAGE		LENGTH
	FROM	TO	
1	492150	492550	400
TOTAL LENGTH			400 ✓

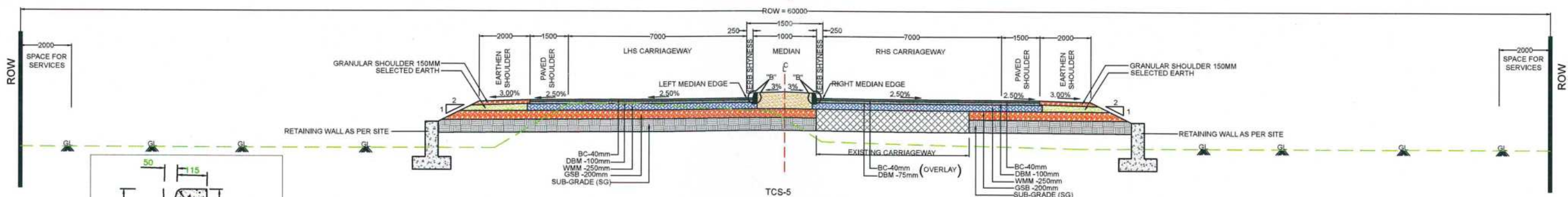


REV	DATE	DESCRIPTION OF REVISIONS	CLIENT	DESIGN CONSULTANT	PROFESSIONAL CONSULTANT	SAFETY CONSULTANT	AUTHORITY ENGINEER	PROJECT	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	STATUS	TITLE	DRG. NO.
R02	DEC-20	CHANGE MEDIAN WIDTH	NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED	M/s. Ecstatic Engineering Consultants Pvt. Ltd.	Marc Technocrats Private Limited.	G-Engineering Advisory Services Pvt. Ltd.	Voyants Solutions Pvt. Ltd.	FOUR LANE OF JHAIHI TO DEMOW SECTION FROM KM. 481+050 TO 535+250 (DESIGN KM. 490+800 TO KM. 534+800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE.	Mr. DEV	Mr. A.K	Sh. L.K	Sh. A.G	DEC.-20	Detailed Design	TYPICAL CROSS SECTIONS	NHIDCL/GDCL/G-ENG/19038/TCS/2A1
R01	NOV-20	CHANGE IN TCS -5.6 & 7A														
R0	MAR-20	FOR APPROVAL														
REV	DATE	DESCRIPTION OF REVISIONS														

S.NO	CHAINAGE		LENGTH	MEDIAN WIDTH
	FROM	TO		
1	508380	508830	450	3.0m
2	519470	519610	140	5.0m
3	526910	527500	590	5.0m
	TOTAL LENGTH		1180	



S.NO	CHAINAGE		LENGTH
	FROM	TO	
1	501890	502290	400
	TOTAL LENGTH		400



A cross-sectional diagram of a typical kerb. The kerb has a top width of 115 units and a base width of 185 units. The total height is 200 units, with a vertical face on the left that is 115 units high. The top surface is sloped, with a vertical height of 50 units from the top edge to the start of the slope. The sloped surface has a vertical height of 115 units and a horizontal width of 165 units. The material is labeled 'PCC-M15'.

S.NO	CHAINAGE		LENGTH
	FROM	TO	
1	515020	515110	90
TOTAL LENGTH			90

R02	DEC-20	CHANGE MEDIAN WIDTH
R01	NOV-20	CHANGE IN TCS -5,6 &7A
R0	MAR-20	FOR APPROVAL
REV	DATE	DESCRIPTION OF REVISIONS



NATIONAL HIGHWAY AND
INFRASTRUCTURE DEVELOPMENT
CORPORATION LIMITED

EPC CONTRACTOR
M/s Cannon Dunkerley & Company Ltd.
#6, Topsan Road (South)
Thane Street, 7th Floor
Kolkata - 700046

DESIGN CONSULTANT -

 M/s Ecstatic Engineering
Consultants Pvt. Ltd.
SCO 108, 2nd Floor HUDA
Shopping Center, Sector-55
Gurgaon-122011 (Hr) INDIA

PROOF CONSULTANT

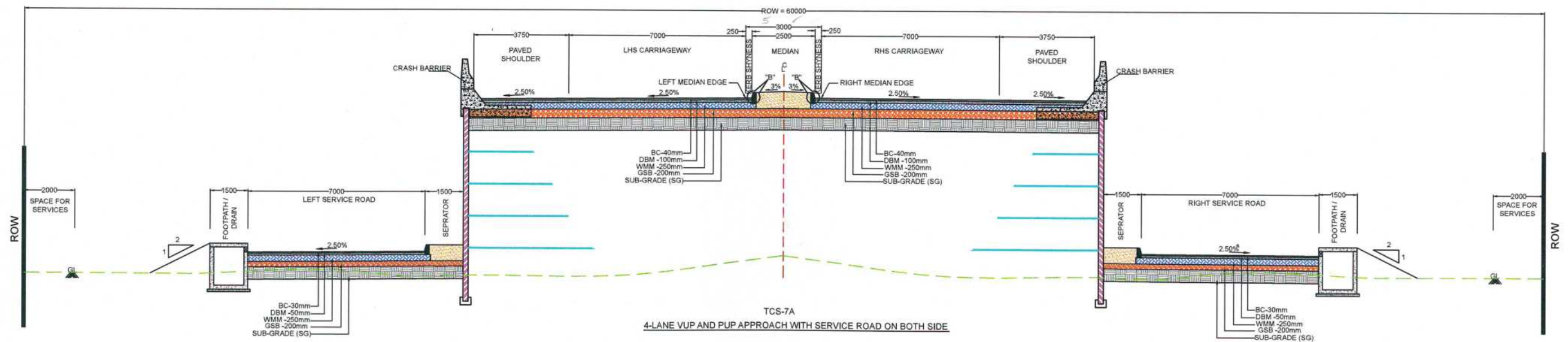
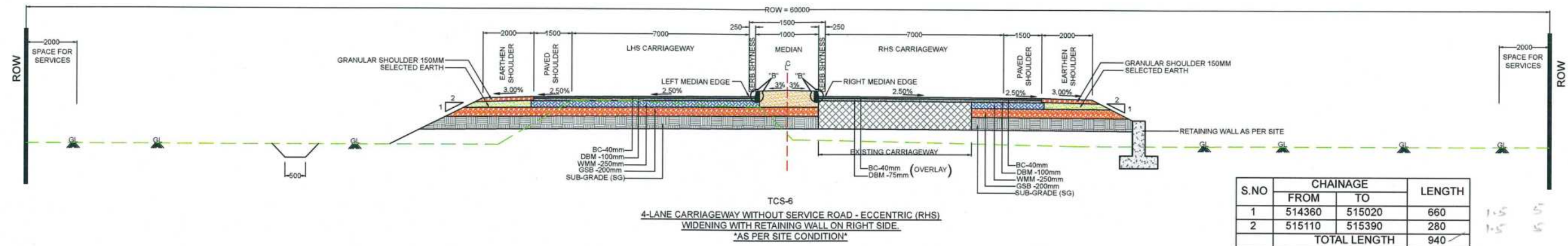
Marc Technocrats Private Limited
Corp. Office- Marc House, SCO-1,
Sector-6-7, Daridwala Road Opp. Devi Lal
Park, Bahadurgarh, Haryana-124507
Tel: +91-1276-645290
E-mail: met_rti@rediffmail.com

G-Engineering Advisory Services Pvt. Ltd.
SCO-102, HUDA Shopping Center,
Sector-55 Gurugram-122011 (Hr) INDIA
Tel +91-124-4295802, 03 Fax: 124-2392006
E-mail info@eng-in.com web: www.g-eng.in

Voyants Solutions Pvt. Ltd.
BPTF Park, Centre, 403, 4th,
Block A, Jal Vayu Vihar, Sec
30, Gurugram, Haryana 12200






PROJECT:	FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM. 491+05 TO 535+250 (DESIGN KM. 490+800 TO KM. 534+800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE
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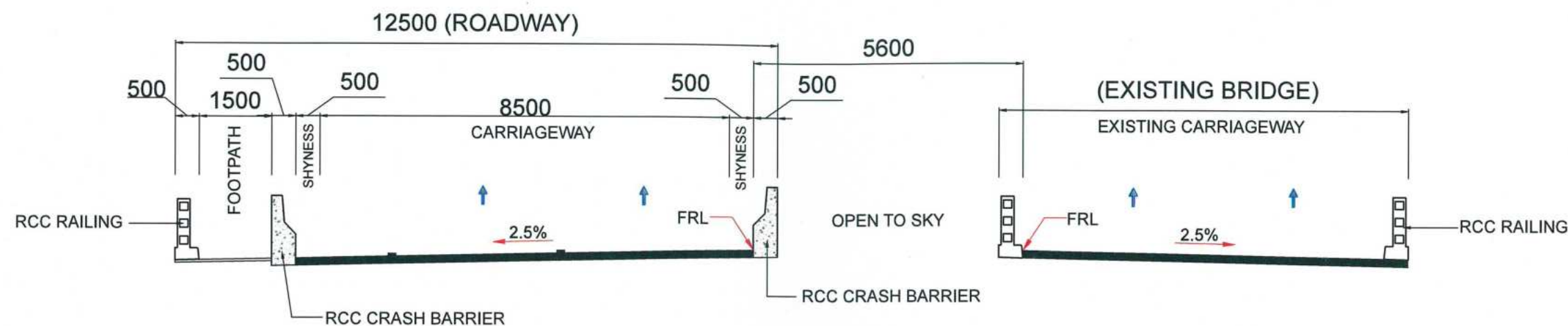
I. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.			
DRAWN BY	Mr. DEV	STATUS :	DETAILED DESIGN
DESIGNED BY	Mr. A. K	TITLE :	TYPICAL CROSS SECTIONS
CHECKED BY	Sh. L. K		
APPROVED BY	Sh. A. G		
DATE:	DEC -20	DRG. NO :	NHIDCL/GDCL/G-ENG/19038/TCS/03



S.NO	CHAINAGE		LENGTH
	FROM	TO	
1	490800	491600	800
2	502290	502810	520
3	500640	501280	640
4	504680	505460	780
5	513300	514100	800
6	533240	534010	770
TOTAL LENGTH			3510

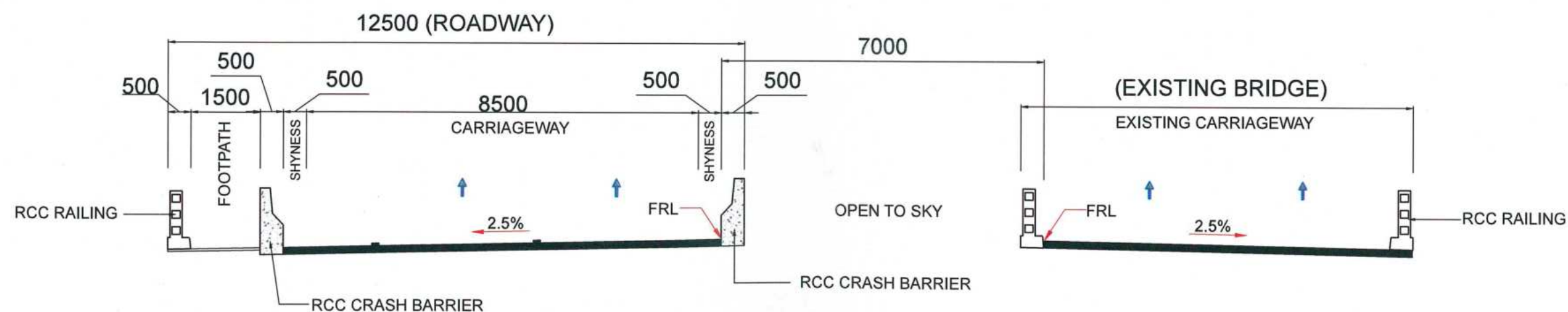
NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

			CLIENT :	EPC CONTRACTOR  M/S Gannon Dunkerley & Company Ltd. 86A, Virginia Road, South Hanteegor, 7th Floor Kolkata-700094	DESIGN CONSULTANT -  M/s Estaste Engineering Consultants Pvt. Ltd. SCO-103, 2nd Floor, HUDA Shopping Center, Sector-55 Gurugram-122011 (Hr.) INDIA	PROOF CONSULTANT -  Marc Technocrats Private Limited. Corpor Office Marc House SCO-1, Sector-67, Drivind Road Opp Devi Lal Park, Bahadurgarh, Haryana-124507 Tel : +91-1276-665290 E-mail : mct_rtk@rediffmail.com	SAFETY CONSULTANT  G-Engineering Advisory Services Pvt. Ltd. SCO-102, HUDA Shopping Center, Sector-55 Gurugram-122011 (Hr.) INDIA Tel : +91-1276-665290 Fax : 124-2392096 E-mail info@g-eng.in web : www.g-eng.in	AUTHORITY ENGINEER -  Voyant Solutions Pvt. Ltd. IT Park Centre, 403, 4th Floor, 2nd Main Vengal Street, 30, Gurugram, Haryana 122001	PROJECT : FOUR LANING OF JHANJI TO DEMOW SECTION FROM KM. 491+050 TO 535+250 (DESIGN KM. 490+800 TO KM. 534+800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE.	DRAWN BY Mr. DEV DESIGNED BY Mr. A K CHECKED BY Sh. L.K APPROVED BY Sh. A.G DATE: DEC -20	STATUS : DRG NO.:	DETAILED DESIGN TYPICAL CROSS SECTIONS NHIDCL/GDCL/G-ENG/19038/TCS/04
REV	DATE	DESCRIPTION OF REVISIONS										



TYPICAL CROSS SECTION OF MINOR BRIDGE
MEDIAN WIDTH 5.6M

S.NO	CHAINAGE
1	500+578

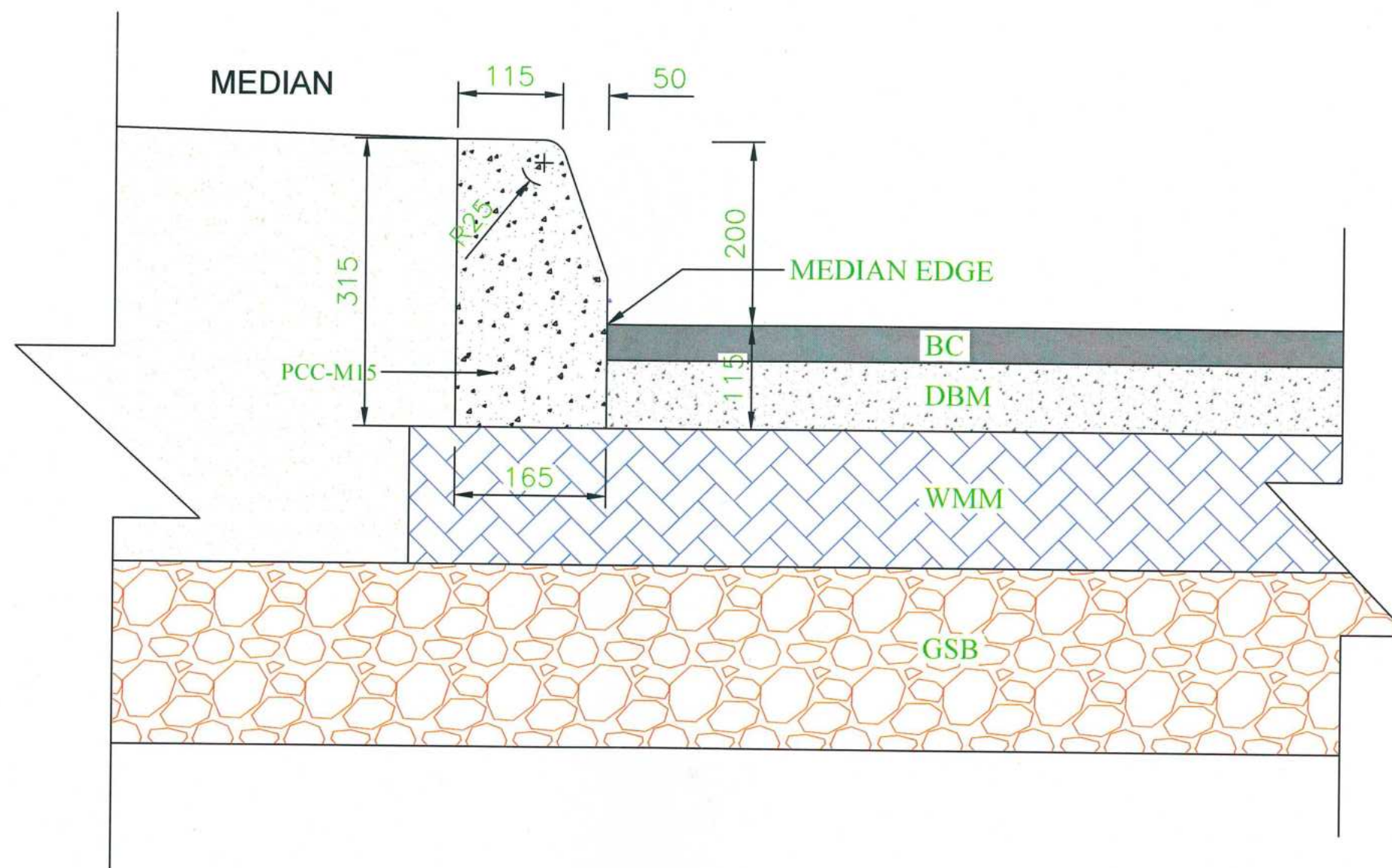


TYPICAL CROSS SECTION OF MAJOR/MINOR BRIDGE
MEDIAN WIDTH 7.0M

S.NO	CHAINAGE
1	508+454
2	516+938
3	523+271

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

			CLIENT :	M/s Gannon Dunkerley & Company Ltd. 80/90, Vignala Road (South) Himmat Nagar, 7th Floor Kullu - 167664	DESIGN CONSULTANT : M/s Ecstacy Engineering Consultants Pvt Ltd SCO-67, 2nd Jyoti Road, Shopping Centre, Sector-55 Gurgaon-122011 (HR) INDIA	PROJECT CONSULTANT :- Marc Technocrats Private Limited. Corp. Office-Marc House SCO-1, Sector-6-7, Dividing Road Opp. Devi Lal Park, Bahadurgarh, Haryana-124507 Tel.: +91-1276-645290 E-mail mct_rd@rediffmail.com	SAFETY CONSULTANT : G-Engineering Advisory Services Pvt.Ltd. SCO-102 HUDA Shopping Center Sector-55 Gurugram-122011 HR INDIA G-ENG Tel. +91-124-229802, 83 Fax. 124-2392006 E-mail info@g-eng.in web www.g-eng.in	AUTHORITY ENGINEER :- Voyants Solutions Pvt. Ltd. BIFT Phase II, Sector, 408, 4th Floor, A, Sub-Vihar Vihar, Sector 30, Gurugram, Haryana-122007	PROJECT : FOUR LANING OF JHANJHI TO DEMOW SECTION FROM KM. 491+050 TO 535+250 DESIGN PKM. 490+000 TO KM. 534+800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE.	DRAWN BY Mr. DEV DESIGNED BY Mr. A K CHECKED BY Sh. L.K APPROVED BY Sh. A.G	STATUS : TITLE : TYPICAL CROSS SECTIONS	DATE: DEC -20	DRG NO. : NHIDCL/GDCL/G-ENG/19038/TCS/
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TYPICAL KERB DETAILS

REV	DATE	DESCRIPTION OF REVISIONS	CLIENT	EPD CONTRACTOR	DESIGN CONSULTANT	PROJECT CONSULTANT	SAFETY CONSULTANT	AUTHORITY ENGINEER	PROJECT	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY	DATE	STATUS	TITLE	DRG. NO.
R02	DEC-20	CHANGE MEDIAN WIDTH	NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED	M/s Gannon Dunkerley & Company Ltd.	M/s Ecstatic Engineering Consultants Pvt. Ltd.	Maro Technocrats Private Limited.	G-Engineering Advisory Services Pvt. Ltd.	Volantis Solutions Pvt. Ltd.	FOUR LANE OF JHANIHI TO DEMOW SECTION FROM KM. 491+050 TO 535+250 (DESIGN KM. 490+800 TO KM. 534+800) OF NH-37 IN THE STATE OF ASSAM UNDER SARDP ON ENGINEERING PROCUREMENT & CONSTRUCTION (EPC) MODE.	Mr. DEV	Mr. A. K.	Sh. L. K.	Sh. A. G.	DEC -20	DETAILED DESIGN	TYPICAL DETAILS OF KERB	NHIDCL/GDCL/G-ENG/19038/TCS/06

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.