

← MORAN

DIGBOI →

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	44
RADIUS (m)	400
CURVE LENGTH (m)	56.529
HIP EASTING (X)	772315.2
HIP NORTHING (Y)	3023895.2
TRANSITION LEADING (m)	115
TRANSITION TRAILING (m)	115
DESIGN SPEED	100 KMPH

MATCH LINE

DESCRIPTION	EXISTING	PROPOSED
Chainage		44+065
Structure Type		BOX CULVERT
Span/Dia		1X6X3
Invert Level		
Imp.Prop.		New 2Lane

DESCRIPTION	EXISTING	PROPOSED
Chainage		44+515
Structure Type		BOX CULVERT
Span/Dia		1X6X4
Invert Level		
Imp.Prop.		New 2Lane

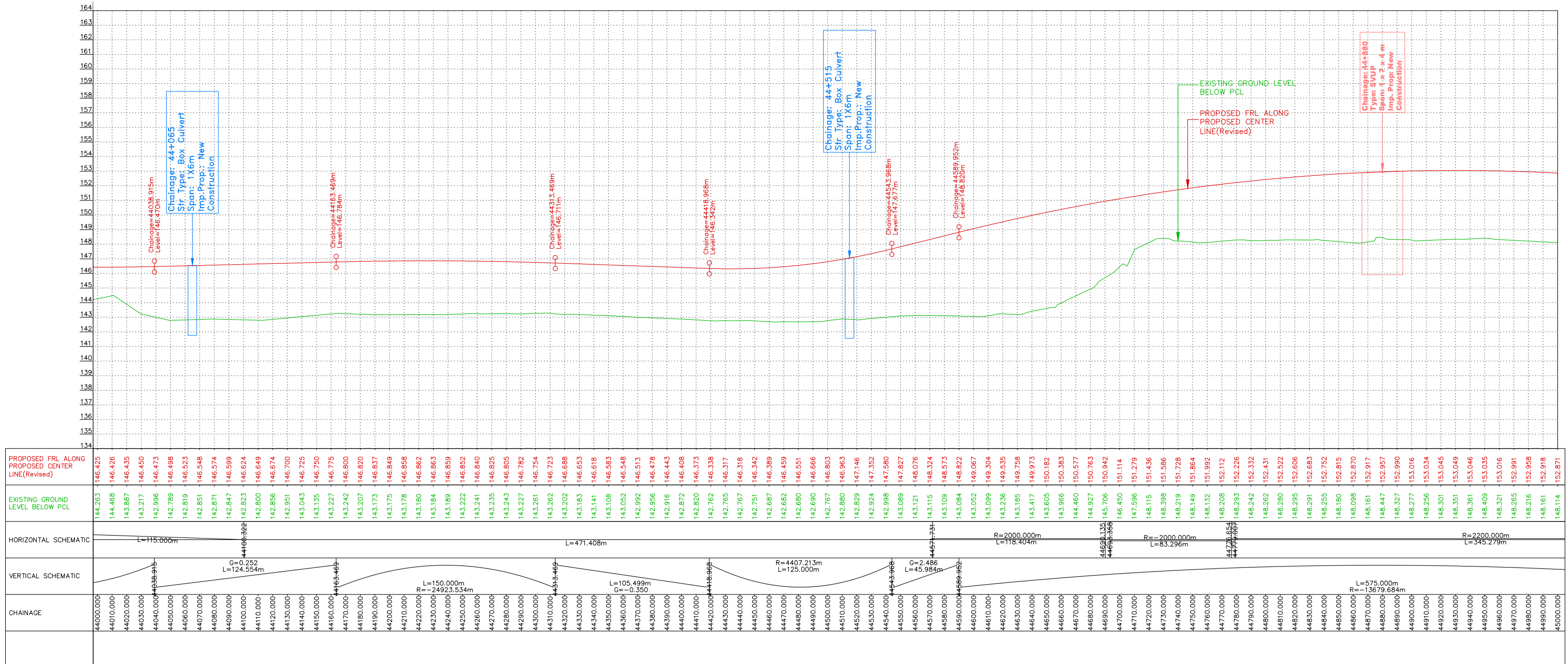
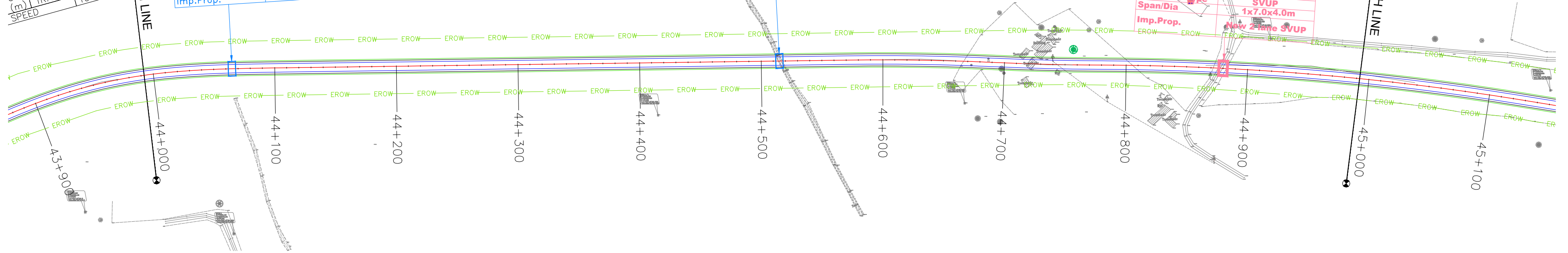
HORIZONTAL CURVE DETAILS	
CURVE NUMBER	45
RADIUS (m)	2000
CURVE LENGTH (m)	118.404
HIP EASTING (X)	772988.4
HIP NORTHING (Y)	3023915.3
TRANSITION LEADING (m)	0
TRANSITION TRAILING (m)	0
DESIGN SPEED	100 KMPH

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	46
RADIUS (m)	-2000
CURVE LENGTH (m)	83.296
HIP EASTING (X)	773092.4
HIP NORTHING (Y)	3023910.8
TRANSITION LEADING (m)	0
TRANSITION TRAILING (m)	0
DESIGN SPEED	100 KMPH

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	47
RADIUS (m)	2200
CURVE LENGTH (m)	345.279
HIP EASTING (X)	773309.4
HIP NORTHING (Y)	3023910.4
TRANSITION LEADING (m)	0
TRANSITION TRAILING (m)	0
DESIGN SPEED	100 KMPH

DESCRIPTION	EXISTING	PROPOSED
Chainage		44+880
Structure Type		SVUP
Span/Dia		1x7.0x4.0m
Invert Level		
Imp.Prop.		New 2Lane SVUP

MATCH LINE



CLIENT :



NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)

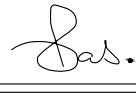
DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN: U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
			
SCALE :	HOR 1:2500 VER 1:250	SHEET SIZE	A2

TITLE :

Plan and Profile
(km 44+000 to km 45+000)

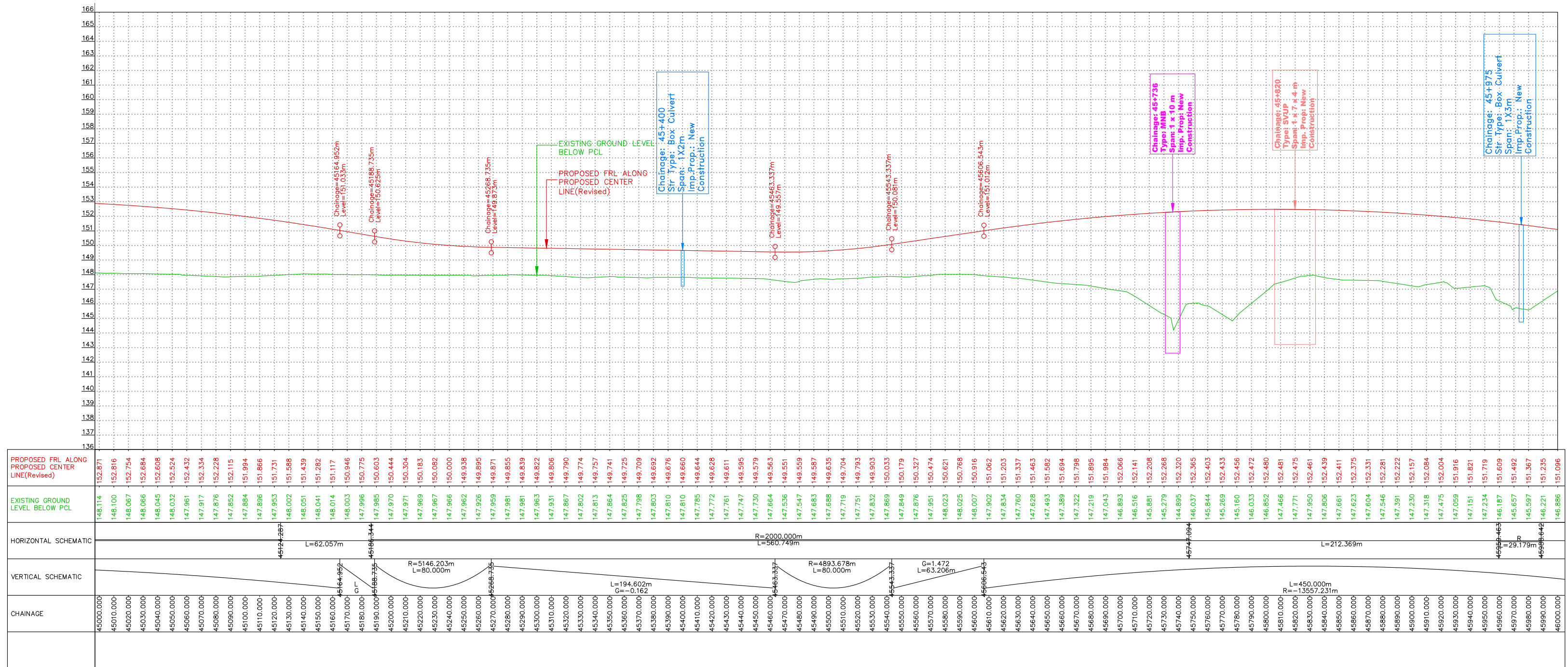
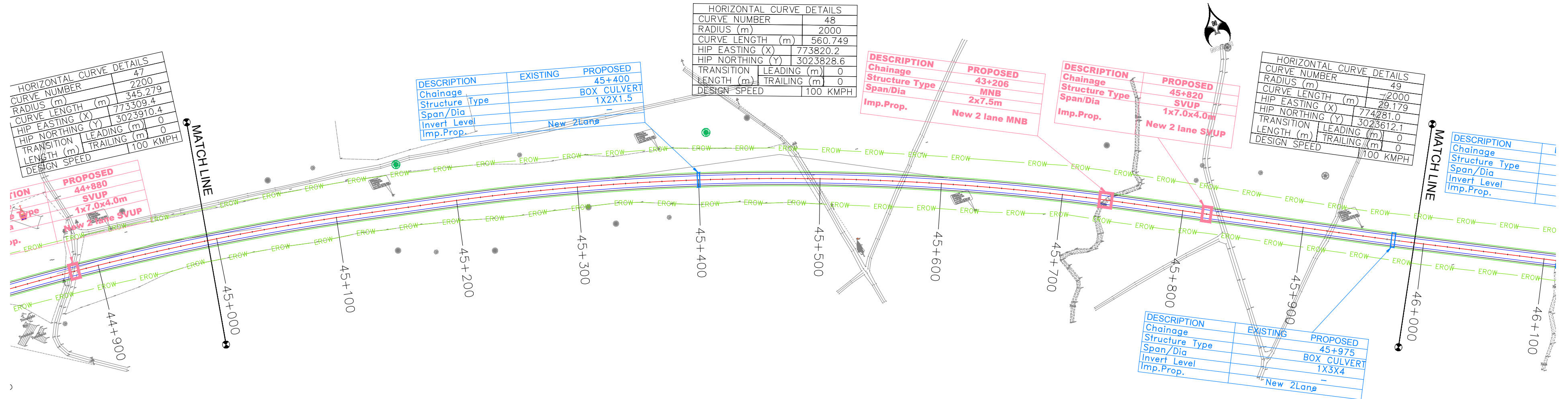
DRG. No. :
VSPL/1718-082/DPR/PKG-4/S5/PP- 18

REVISION:R1

MARCH 2023

← MORAN

DIGBOI →



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MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

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403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
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Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	HOR 1:2500 VER 1:250	SHEET SIZE	A2

TITLE :

Plan and Profile
(km 45+000 to km 46+000)

DRG. No. :
VSPL/1718-082/DPR/PKG-4/S5/PP- 19

REVISION:R1

MARCH 2023

← MORAN

DIGBOI →



HORIZONTAL CURVE DETAILS	
CURVE NUMBER	49
RADIUS (m)	2000
CURVE LENGTH (m)	29.179
HIP EASTING (X)	774781.0
HIP NORTHING (Y)	3023612.1
TRANSITION LEADING (m)	0
LENGTH (m) TRAILING (m)	0
DESIGN SPEED	100 KMPH

DESCRIPTION	EXISTING	PROPOSED
Chainage		46+112
Structure Type		BOX CULVERT
Span/Dia		1X3X3
Invert Level		
Imp.Prop.		New 2Lane

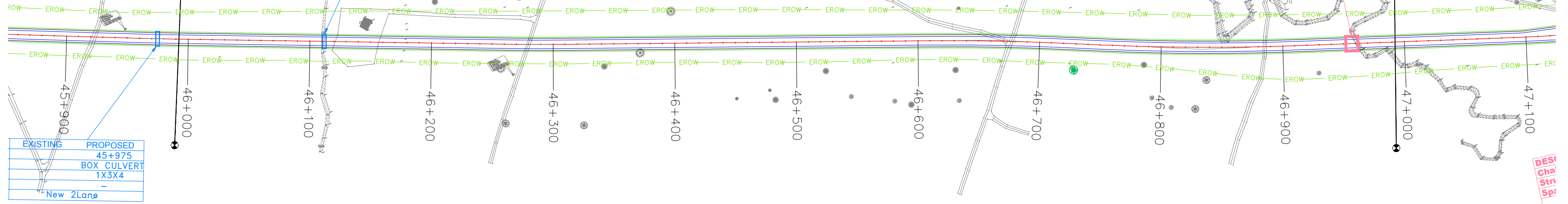
HORIZONTAL CURVE DETAILS	
CURVE NUMBER	50
RADIUS (m)	2000
CURVE LENGTH (m)	50.136
HIP EASTING (X)	774564.7
HIP NORTHING (Y)	3023483.9
TRANSITION LEADING (m)	0
LENGTH (m) TRAILING (m)	0
DESIGN SPEED	100 KMPH

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	51
RADIUS (m)	2000
CURVE LENGTH (m)	106.496
HIP EASTING (X)	774909.8
HIP NORTHING (Y)	3023338.2
TRANSITION LEADING (m)	0
LENGTH (m) TRAILING (m)	0
DESIGN SPEED	100 KMPH

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	52
RADIUS (m)	2000
CURVE LENGTH (m)	161.698
HIP EASTING (X)	775065.0
HIP NORTHING (Y)	3023262.7
TRANSITION LEADING (m)	0
LENGTH (m) TRAILING (m)	0
DESIGN SPEED	100 KMPH

DESCRIPTION	PROPOSED
Chainage	46+957
Structure Type	MNB
Span/Dia	2x10.0m
Imp.Prop.	New 2 lane MNB

DESCRIPTION	EXISTING
Chainage	
Structure Type	
Span/Dia	
Invert Level	
Imp.Prop.	



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ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
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Gurgaon-122001, Haryana, India
CIN: U74140HR2004PTC046918
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E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

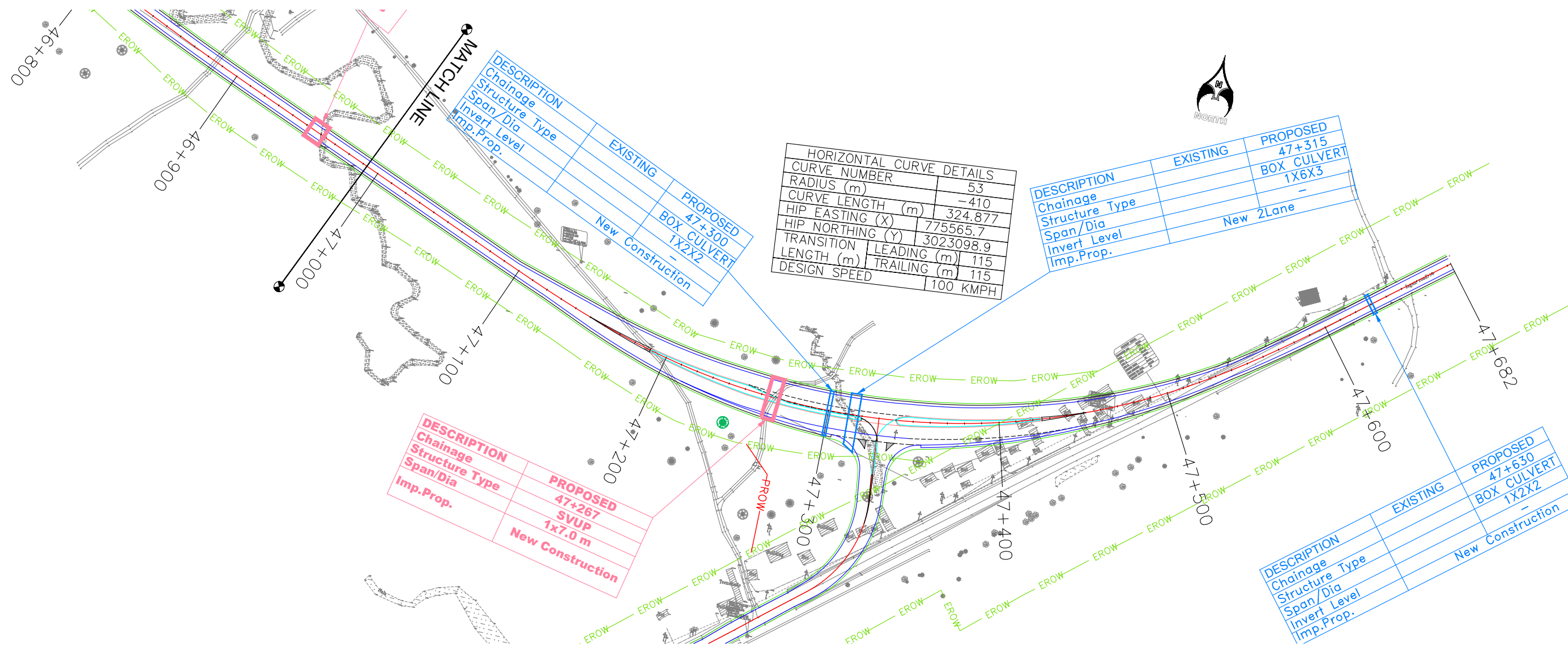
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	HOR 1:2500 VER 1:250	SHEET SIZE	A2

TITLE :

Plan and Profile
(km 46+000 to km 47+000)

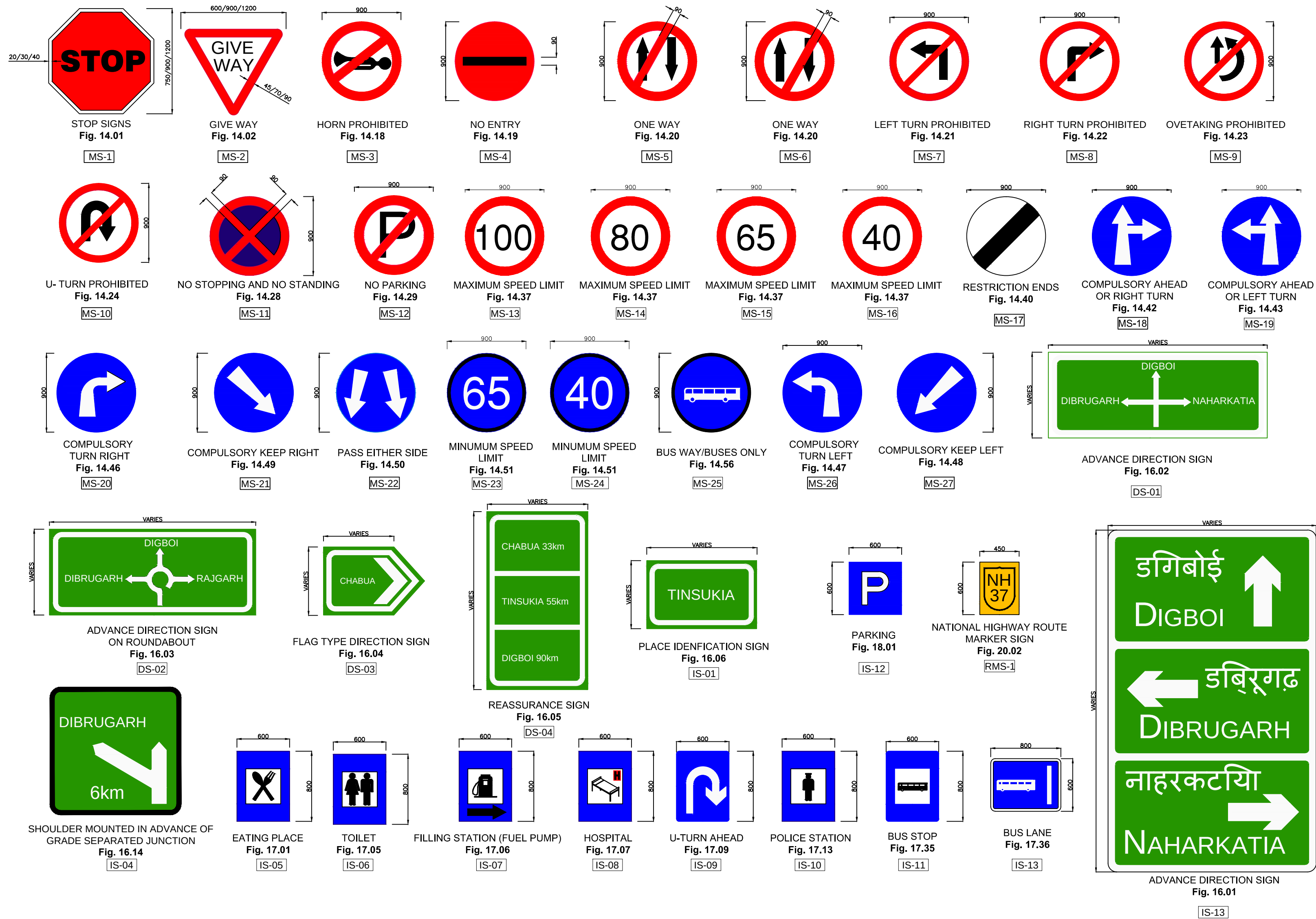
DRG. No. :
VSPL/1718-082/DPR/PKG-4/S5/PP- 20

REVISION:R1 MARCH 2023



CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT: VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurugram-122001, Haryana, India CIN: U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detailed Project Report				DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE : Plan and Profile (km 47+000 to km 47+682)	
							PD/PS	SS/SP	DGR	SKC		
												
							SCALE : HOR 1:2500 VER 1:250		SHEET SIZE	A2		
			REV.	DATE	DESCRIPTION							
											DRG. No. : VSPL/1718-082/DPR/PKG-4/S5/PP- 21	
											REVISION:R1	MARCH 2023

☰ **Miscellaneous Drawings (For Road Work)** ☰



Note:
1. The dimension of the road sign given as in as per 100kmph design speed, dimension should be change of design speed according to IRC-67-2012 table no. 14.1, 14.2, 14.4

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ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
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Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

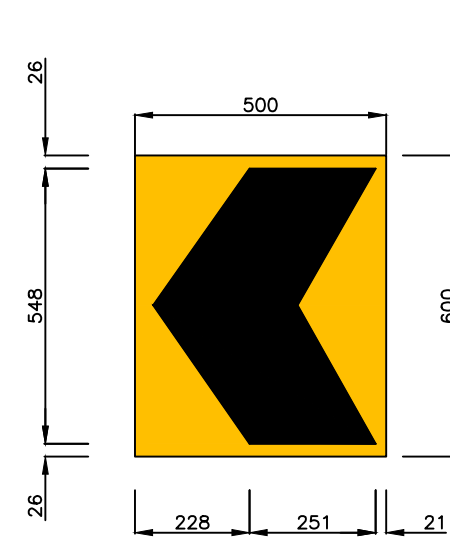
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
<i>Sas.</i>	<i>SP</i>	<i>dubh...</i>	<i>SKC</i>
SCALE :	1:35	SHEET SIZE	A2

TITLE :
Road Sign & Road Delineators
DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 01 (Sheet 01 of 03)
REVISION:R1
MARCH 2022

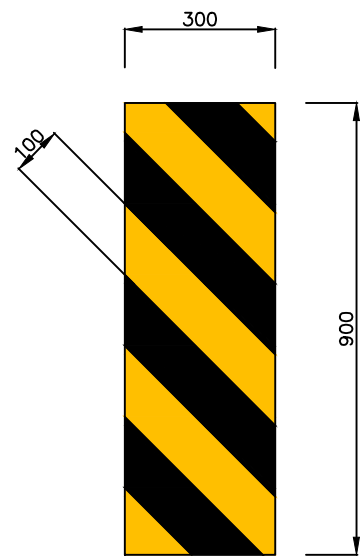


Note:
1. The dimension of the road sign given as in as per 80kmph design speed, dimension should be change of design speed according to IRC-67-2012 table no. 15.1

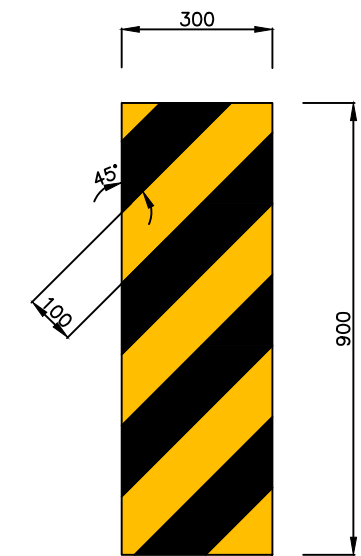
CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA		PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)		DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurugram-122001, Haryana, India CIN- U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in		Detailed Project Report		DESIGNED BY PD/PS 	DRAWN BY SS/SP 	CHECKED BY DGR 	APPROVED BY SKC 	TITLE : Road Sign & Road Delineators	
								DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 01 (Sheet 02 of 03)					
						SCALE : 1:30		SHEET SIZE A2		REVISION:R1		MARCH 2022	
						REV.	DATE	DESCRIPTION					



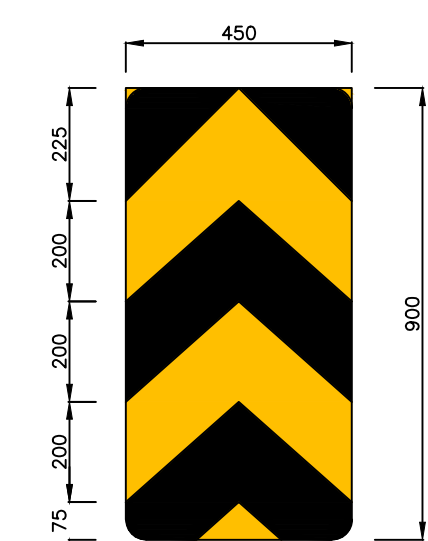
SINGLE CHEVRON
Fig. 15.72
TA-1
SCALE 1:15000



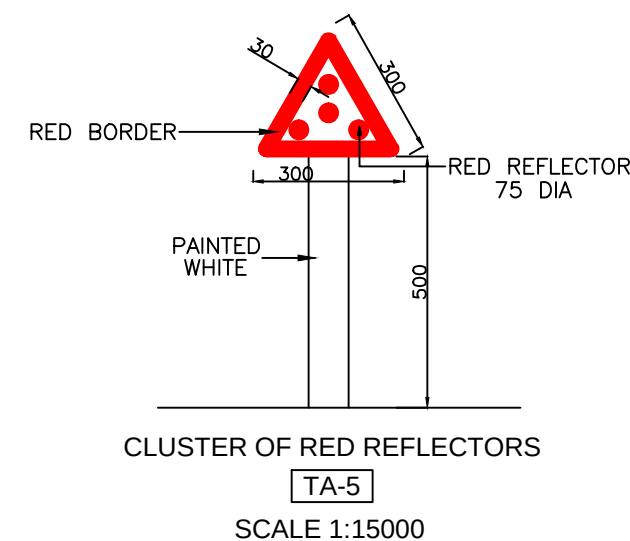
OBJECT HAZARD (LEFT)
Fig. 15.76
TA-2
SCALE 1:15000



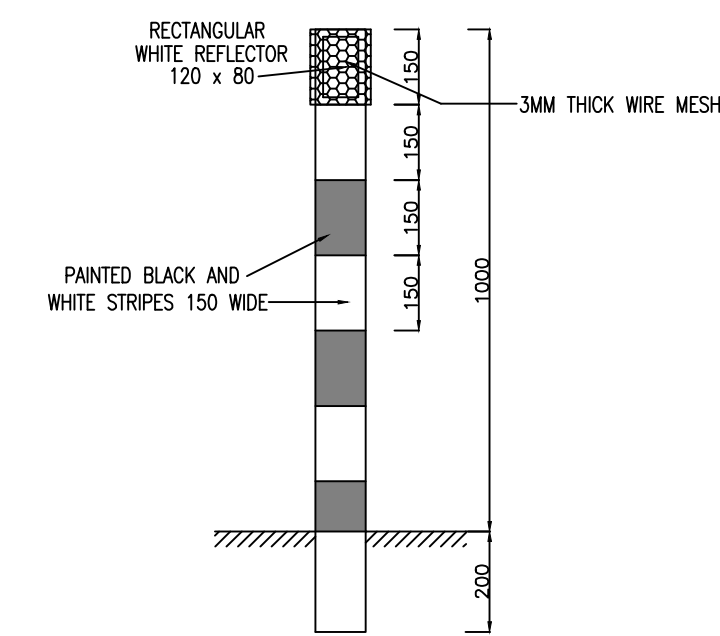
OBJECT HAZARD (RIGHT)
Fig. 15.77
TA-3
SCALE 1:15000



TWO WAY HAZARD MARKER
Fig. 15.78
TA-4
SCALE 1:15000



CLUSTER OF RED REFLECTORS
TA-5
SCALE 1:15000

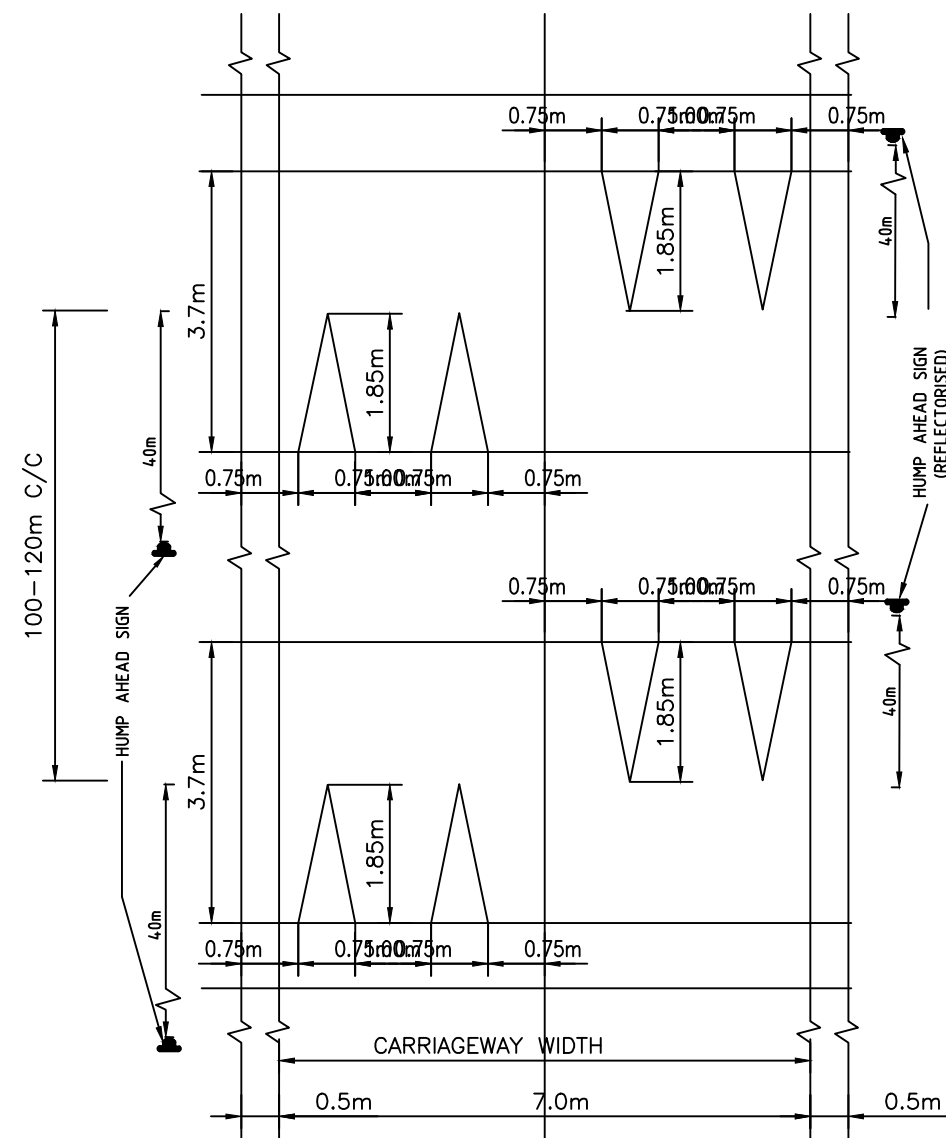


ROAD DELINEATORS WITH RECTANGULAR REFLECTOR
TA-6
SCALE 1:15000

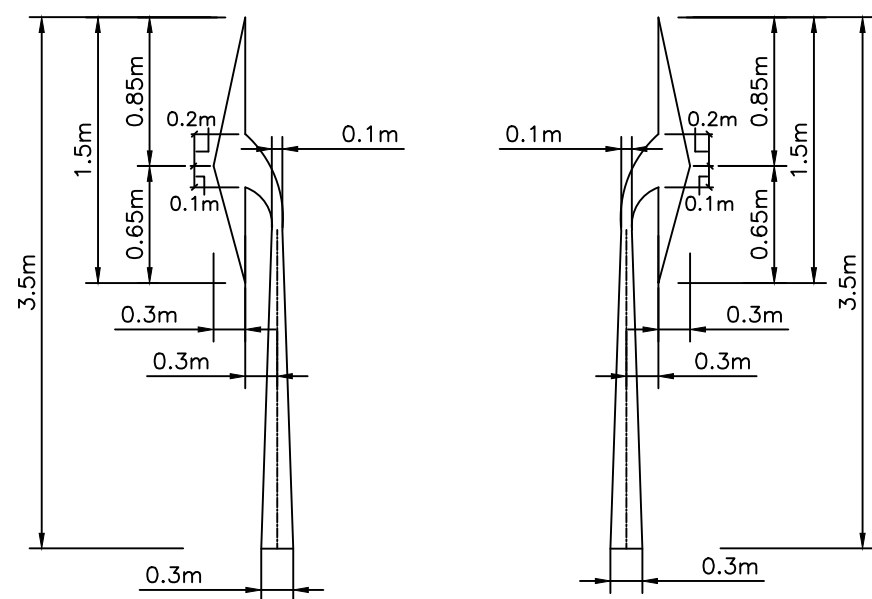
Notes:

1. Road signs shall be erected as per IRC:67-2012.
2. Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012
3. Route marker signs, letters and numerals shall be erected as per IRC:2-1968.
4. Spacing of TA2 on kerb face shall be 250mm C/C and that on metal beam crash barrier shall be 3000mm C/C. The number of reflector at island/median tips shall be as instructed by the Engineer, but in no case shall be less than five number at a tip.
5. CS1 can also be used for compulsory right turn and straight ahead by rotating.
6. All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
7. Besides the above, standards and specifications mentioned in IRC:67-2012 shall be followed strictly whenever applicable.

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					PD/PS	SS/SP	DGR	SKC	Road Sign & Road Delineators		
									DRG. No. :		
					SCALE :		AS SHOWN	SHEET SIZE	A2	VSPL/1718-082/DPR/PKG-4/MIS- 01 (Sheet 03 of 03)	
			REV.	DATE	DESCRIPTION					REVISION:R1	

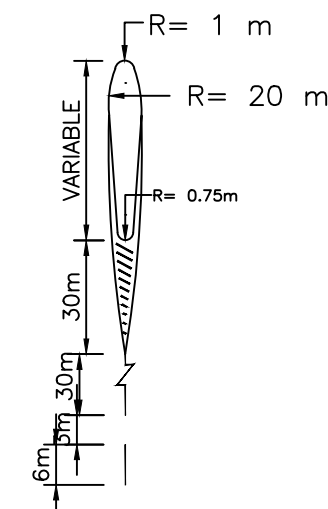


BM-04 TYPICAL DETAIL FOR SPEED BREAKER
(SCALE 1:100)

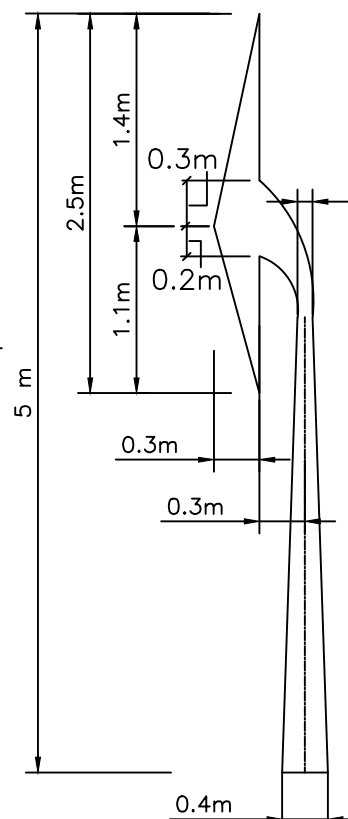


AM 02
(SCALE 1:20)

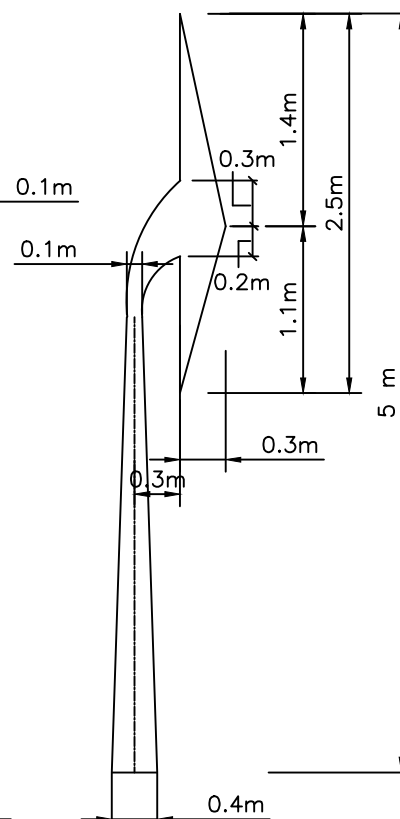
AM 03
(SCALE 1:20)



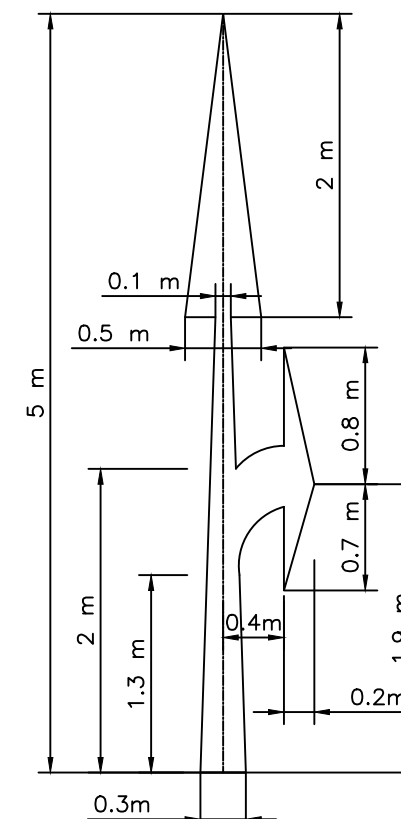
AM 08
(SCALE 1:20)



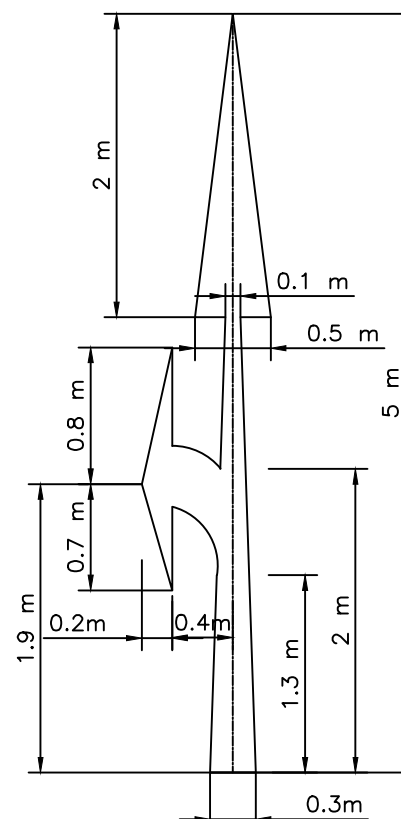
AM 09
(SCALE 1:20)



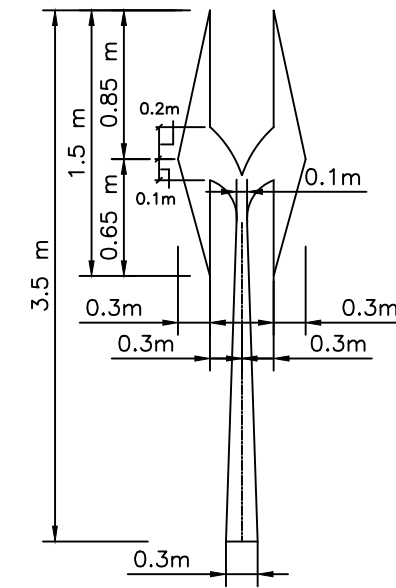
AM 10
(SCALE 1:20)



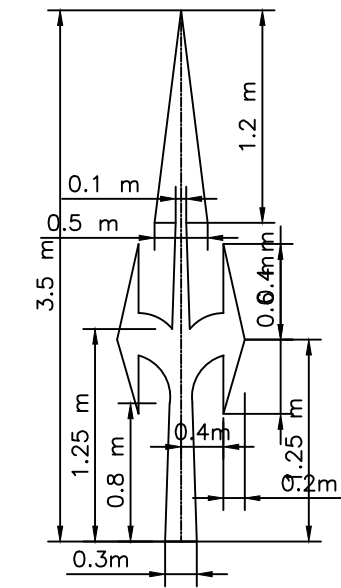
AM 12
(SCALE 1:20)



AM 11
(SCALE 1:20)



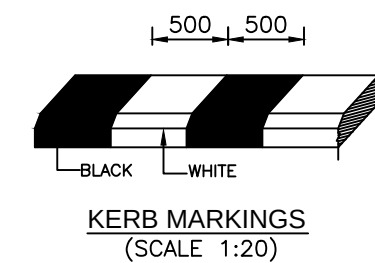
AM 06
(SCALE 1:20)



AM 07
(SCALE 1:20)

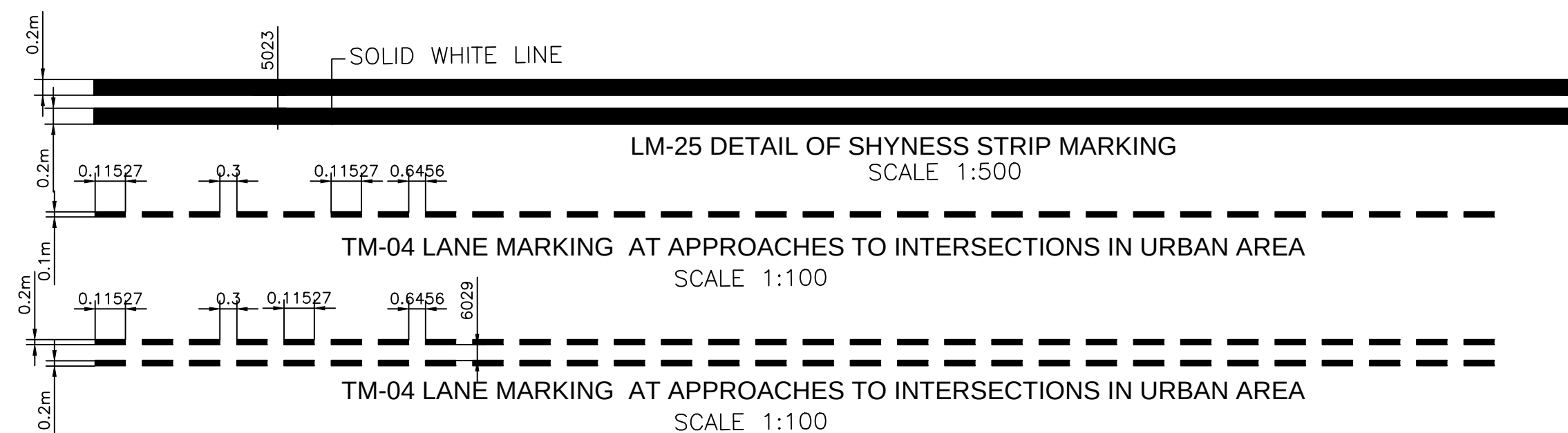
ARROW MARKING FOR ROUTE DIRECTION

TOTAL LENGTH OF MARKING (M)	SPACING BETWEEN BARS OR CHEVRONS (MM)	
	LOW SPEED (75 KM/H)	HIGH SPEED (75 KM/H)
< 5.7	2100	--
5.7 to 22.5	3500	--
>22.5	5000	--
< 10.5	--	4000
> 10.5	--	6000



KERB MARKINGS
(SCALE 1:20)

DIAGONAL MARKING IN ADVANCE OF DIRECTIONAL ISLAND



LM-25 DETAIL OF SHYNESS STRIP MARKING
SCALE 1:500

TM-04 LANE MARKING AT APPROACHES TO INTERSECTIONS IN URBAN AREA
SCALE 1:100

TM-04 LANE MARKING AT APPROACHES TO INTERSECTIONS IN URBAN AREA
SCALE 1:100

Notes:

- All the arrows are in white colour.
- Provided first arrow at distance of 15m from mouth of intersection & second at 30m from first arrow.
- Size of arrow shall be 3.5m (As per fig.21 of IRC:35-2015) for design speed is less than 50km/hr.

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DESIGN CONSULTANT:

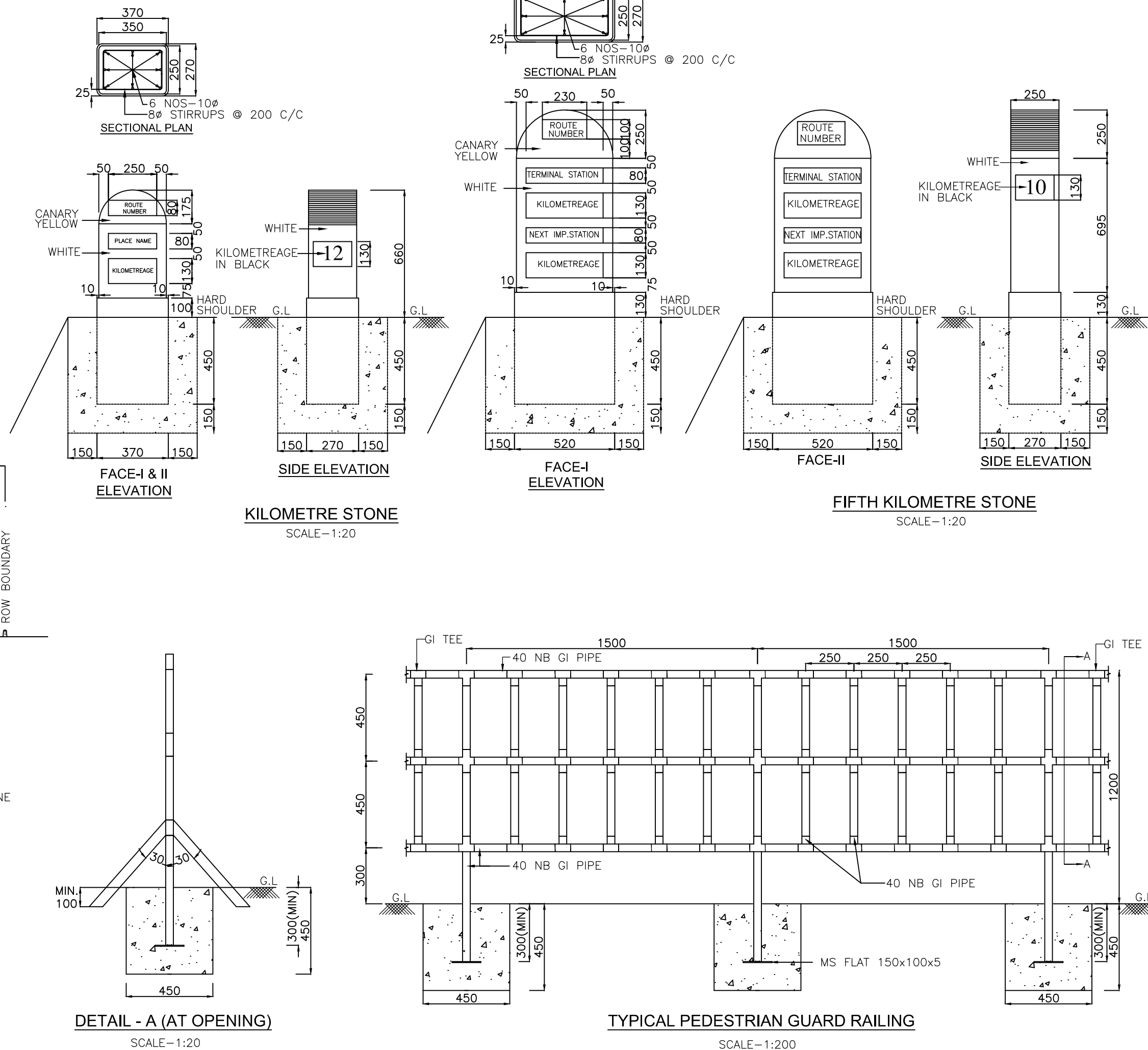


VOYANTS SOLUTIONS PVT LTD.
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Detailed Project Report

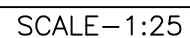
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :
PD/PS	SS/SP	DGR	SKC	
				Road / Kerb Marking
SCALE : N.T.S				DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 02 (Sheet 04 of 04)
SHEET SIZE A2				REVISION:R1
MARCH 2022				

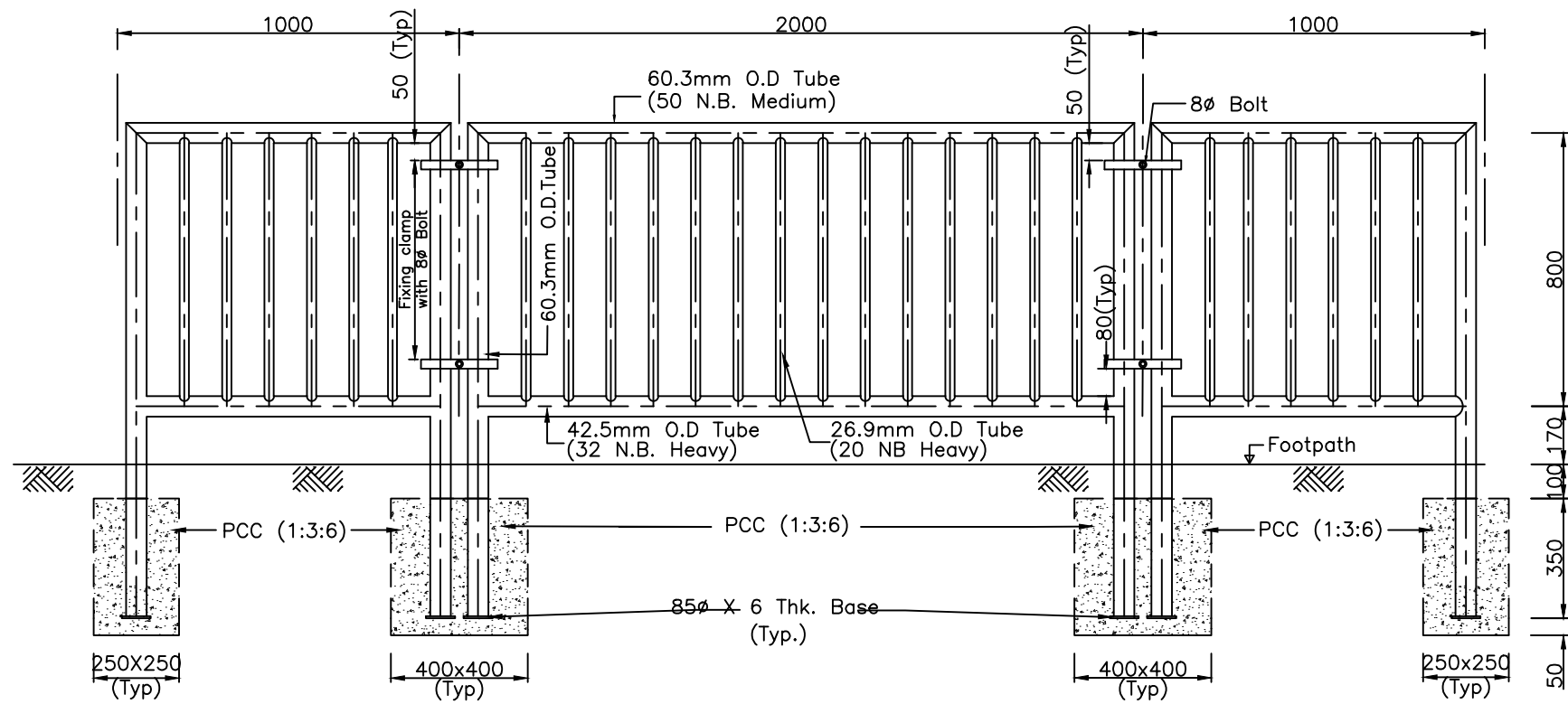


1. Details of kilometre stone and 5th kilometre stone are generally based on IRC:8-1980
2. Details of 200m stones are generally based on IRC:26-1967.
3. The distance stones shall be provided on left side of the road as shown independently for each direction of traffic flow.
4. The letters and numerals on distance stones shall be as per IRC:8-1980.
5. Details of boundary stones are generally based on IRC:25-1967.
6. Besides the above, standards and specifications mentioned in IRC : SP : 84-2014 shall be followed strictly whenever applicable.
7. All dimensions are in millimetres unless otherwise mentioned.

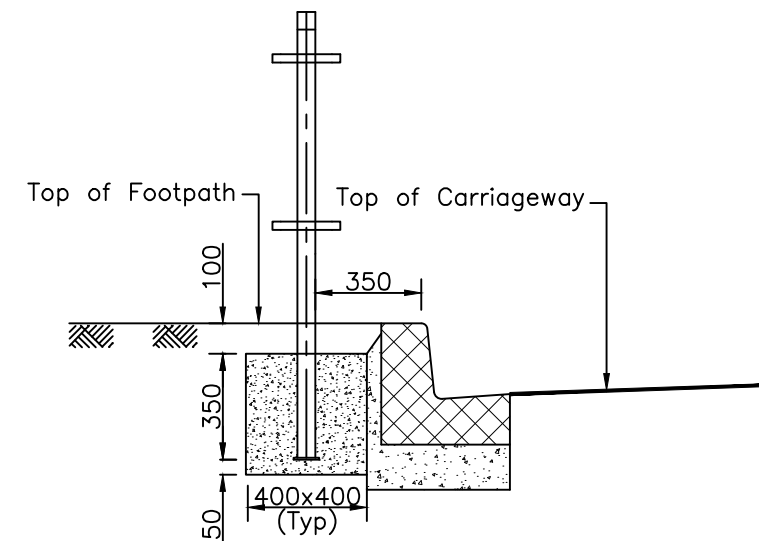
TITLE : Typical Deatils of Distance Stone, Boundary Stone & Guard Post	
DRG. No. : VSP/L/1718-082/DPR/PKG-4/MIS- 03	
REVISION:R1	MARCH 2022



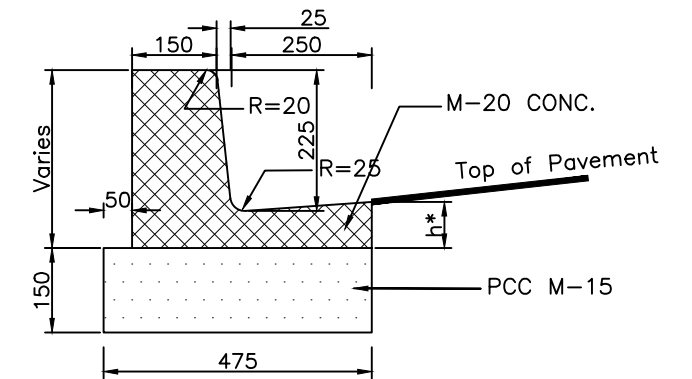
	KERBED ROAD	UN-KERBED ROADS
MINIMUM CLEARANCE (C)	>6 cm	2-3 METRE
BOTTOM EDGE OF SIGN HEIGHT (H) SHOULD BE	>2m ABOVE KERB	>1.5m ABOVE CROWN OF THE PAVEMENT



Typical Details for Pedestrian Guard Rail (PGR)

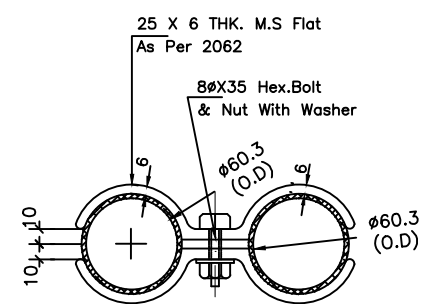


Side View of PGR

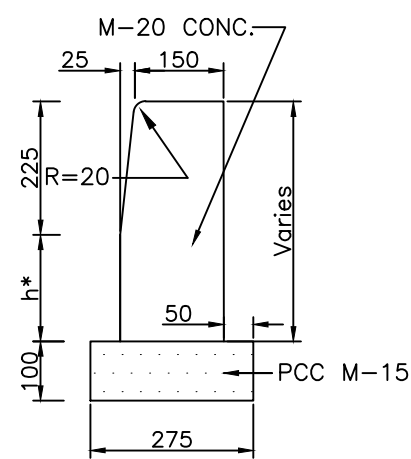


Kerb with Channel

*h - Depends on thickness (BC + DBM)

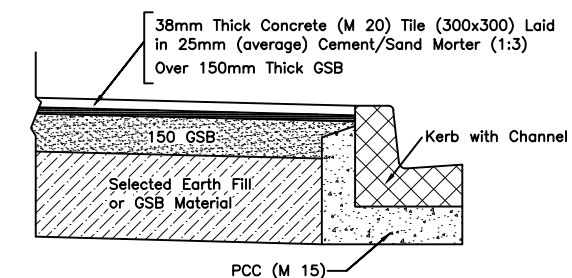


Details of Fixing Clamp
(Pedestrian Guard Rail)



Kerb

*h - Depends on thickness (BC + DBM)



Details of Footpath

Notes:

- All dimensions are in millimetres unless otherwise mentioned.
- All fillet welds shall be 3 mm thick.
- Details of pedestrian guard rails are for typical modules in straight. Length of modules shall need some adjustments to fit in the individual runs of the fencing between discontinuities at locations of cross roads, driveways etc. A fencing plan finalising the details shall be prepared by the concessioner/contractor after final setting out and as approved by the Engineer.
- After erection, kerbs shall be painted with one coat of primer and two coats of colour paint. All colour paints shall be ready mix oil bound and shall be approved by the Engineer.
- Kerb shall be provided at every location except some selected stretches where kerb with channel shall be provided.
- Besides the above, standards and specifications mentioned in IRC : SP : 84-2014 shall be followed strictly whenever applicable.

CLIENT :



**NATIONAL HIGHWAYS AND INFRASTRUCTURE
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GOVERNMENT OF INDIA

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

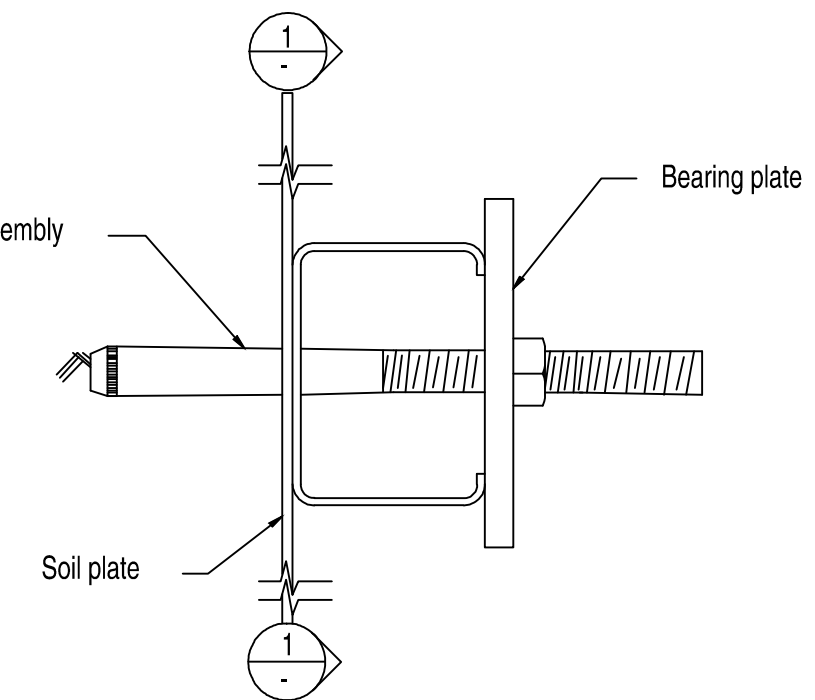
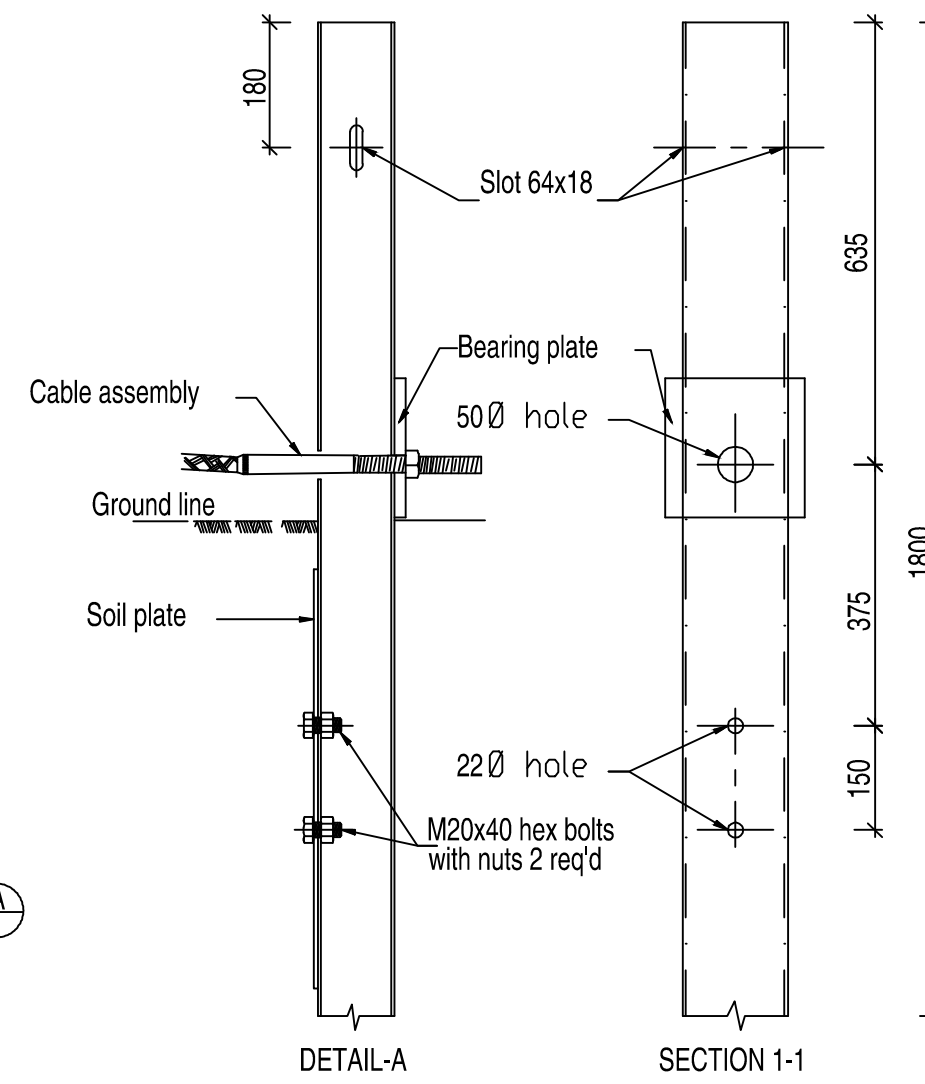
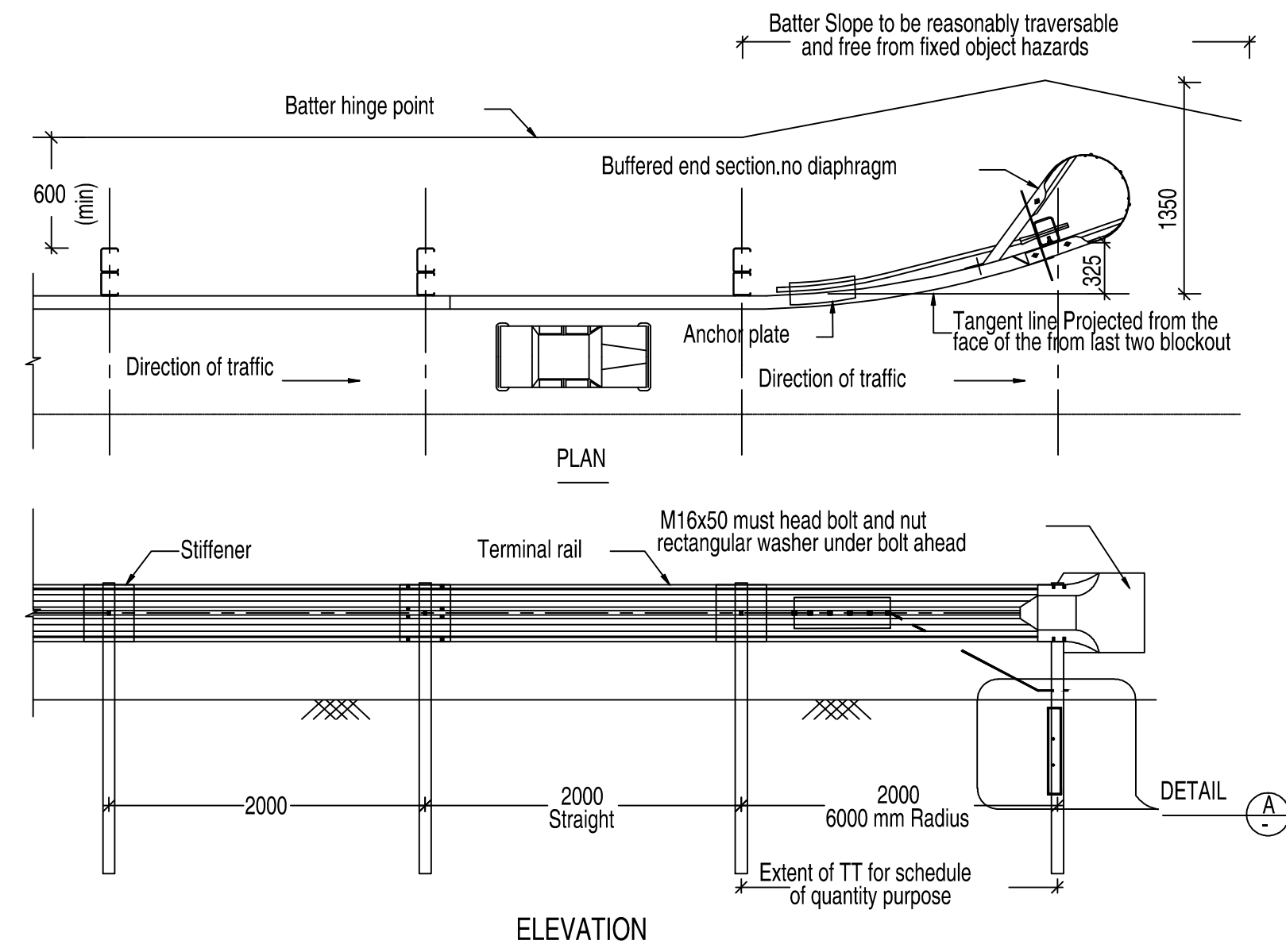
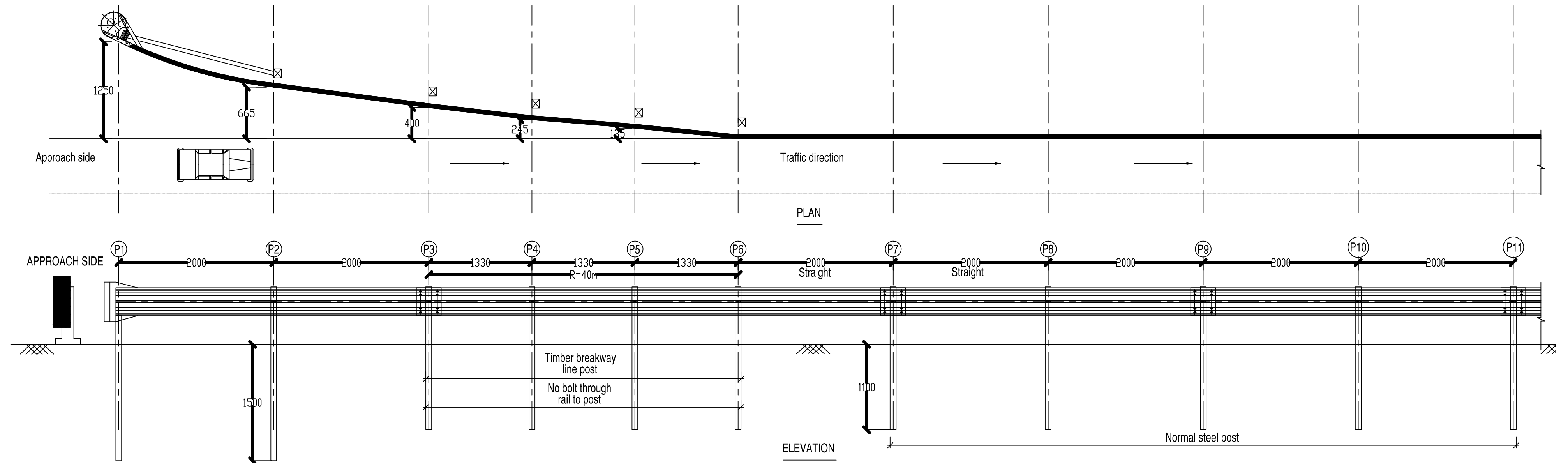


VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE : Typical Deatils of Kerb, Kerb with Channel Footpath & Pedestrial Guard Rail
PD/PS	SS/SP	DGR	SKC	
				DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 05
SCALE :	N.T.S	SHEET SIZE	A2	REVISION:R1
				MARCH 2022



- Notes:
1. All dimensions are in millimeter unless otherwise specified.
 2. Hot dipped galvanized section as per mort & h specification shall be used for vertical post & spacer.
 3. Thickness of W-beam shall be 3 mm.
 4. Thickness of channel section shall be 5 mm.

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GOVERNMENT OF INDIA

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CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN- U74140HR2004PTC046918
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E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

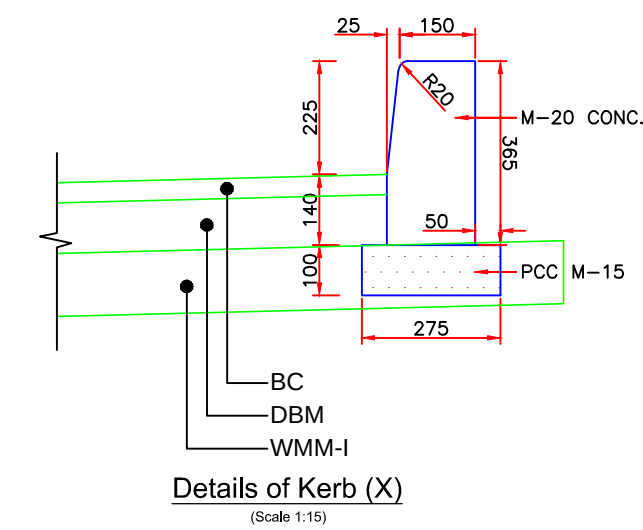
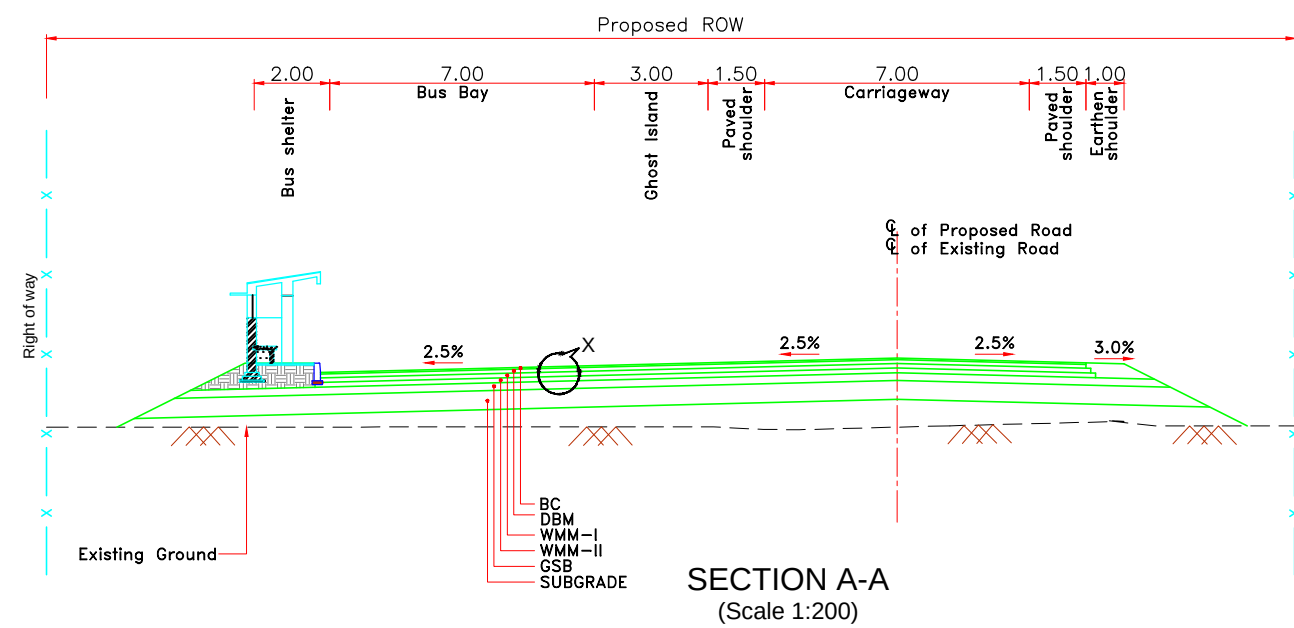
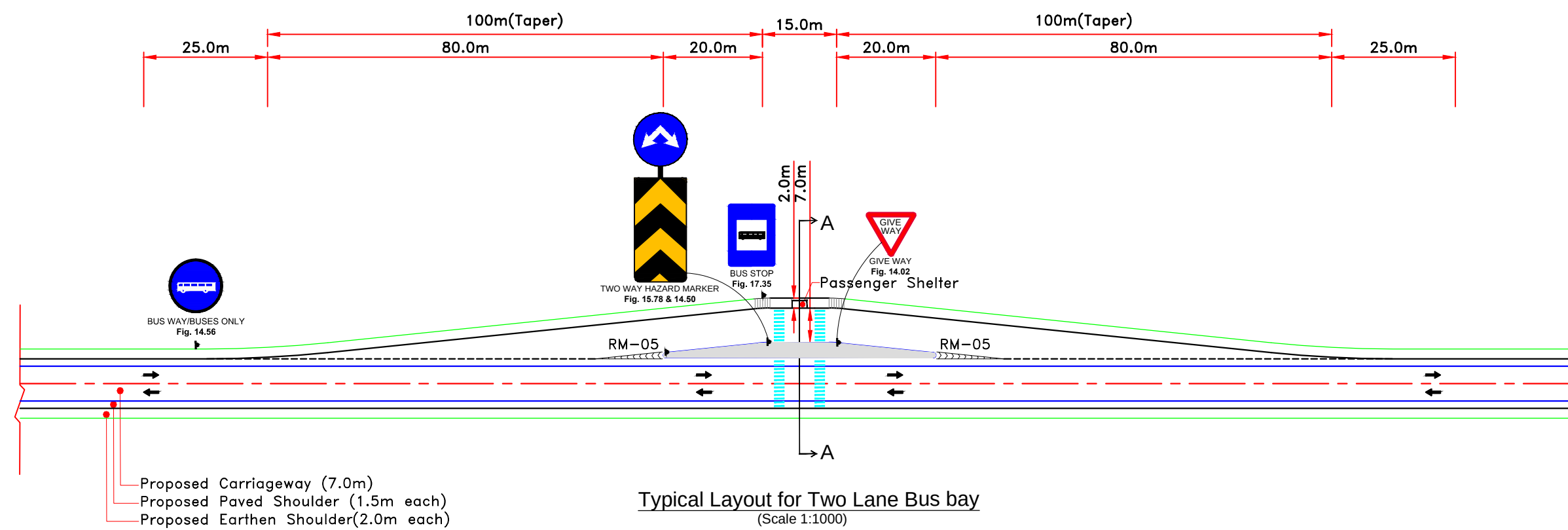
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :
PD/PS	SS/SP	DGR	SKC	Typical Details of Metal Beam Crash Barrier
				DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 06 (Sheet 01 of 03)
SCALE :	N.T.S	SHEET SIZE	A2	REVISION:R1
				MARCH 2022

Path: C:\Users\rbw2\Desktop\7.Miscellaneous Drawings_Two Lane_VIS_07_Busbay.dwg

◀ MORAN

DIGBOI ▶



Note:

1. All dimensions are in meter unless otherwise specified.

CLIENT :

**NATIONAL HIGHWAYS AND INFRASTRUCTURE
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GOVERNMENT OF INDIA

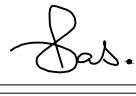
PROJECT :
**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
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E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV. DATE DESCRIPTION

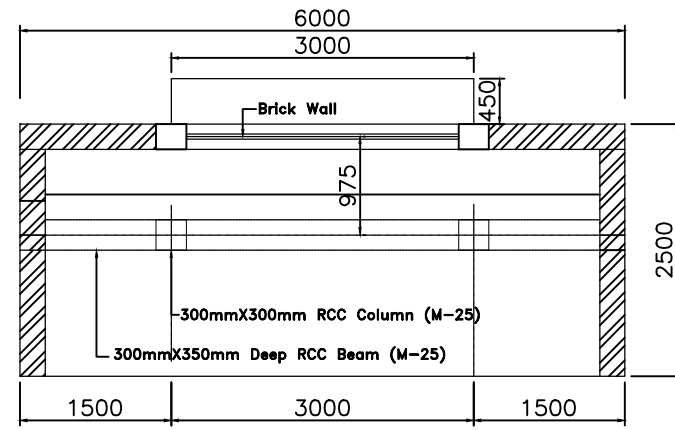
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
			
SCALE :	AS SHOWN	SHEET SIZE	A2

TITLE :
Typical Detail of Bus Bay

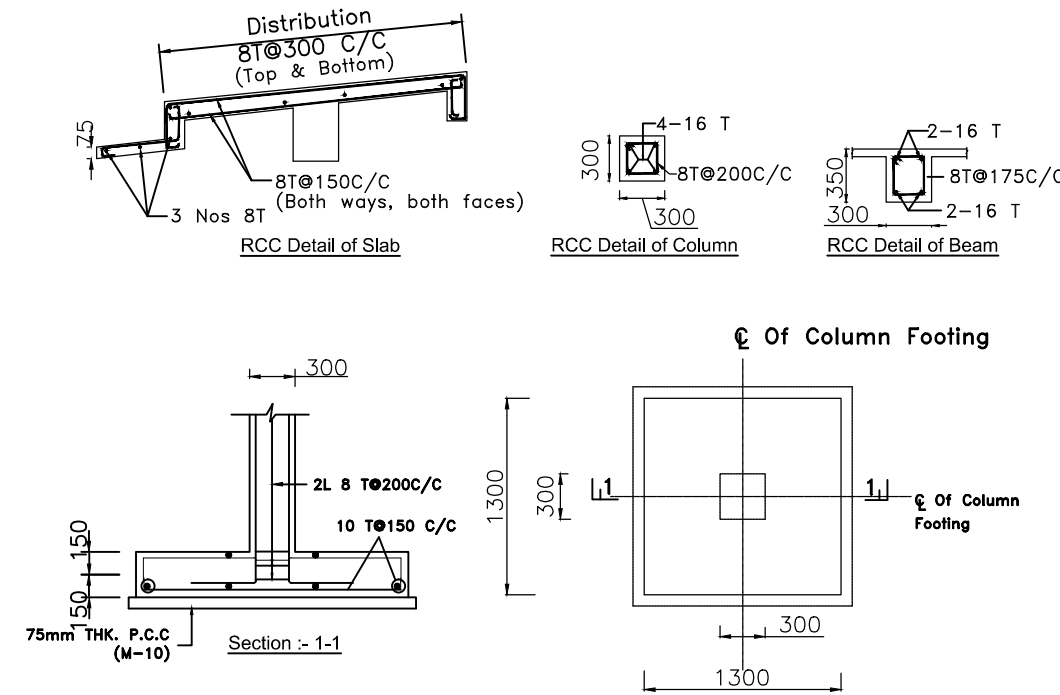
DRG. No. :
VSPL/1718-082/DPR/PKG-4/MIS- 07

REVISION:R1

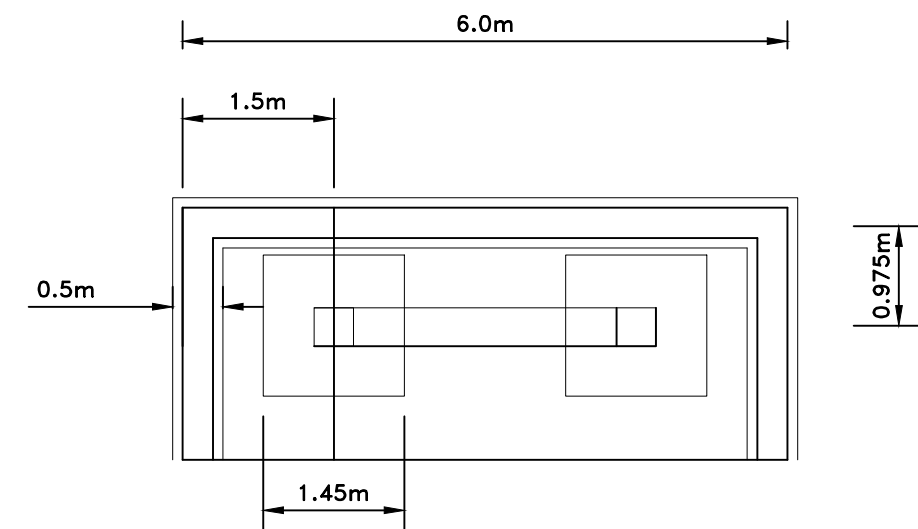
MARCH 2022



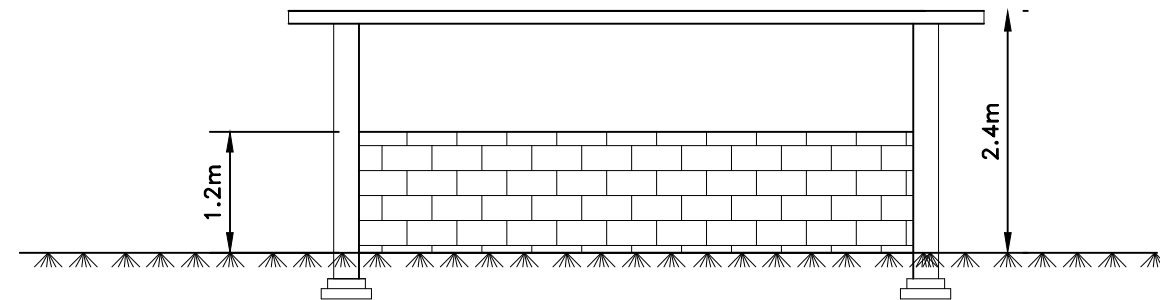
Plan of Passenger Shelter
Scale 1:75



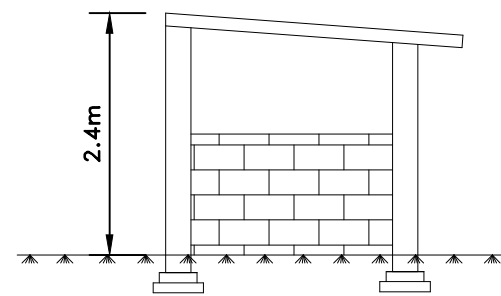
Plan Showing Column Foundation
Scale 1:50



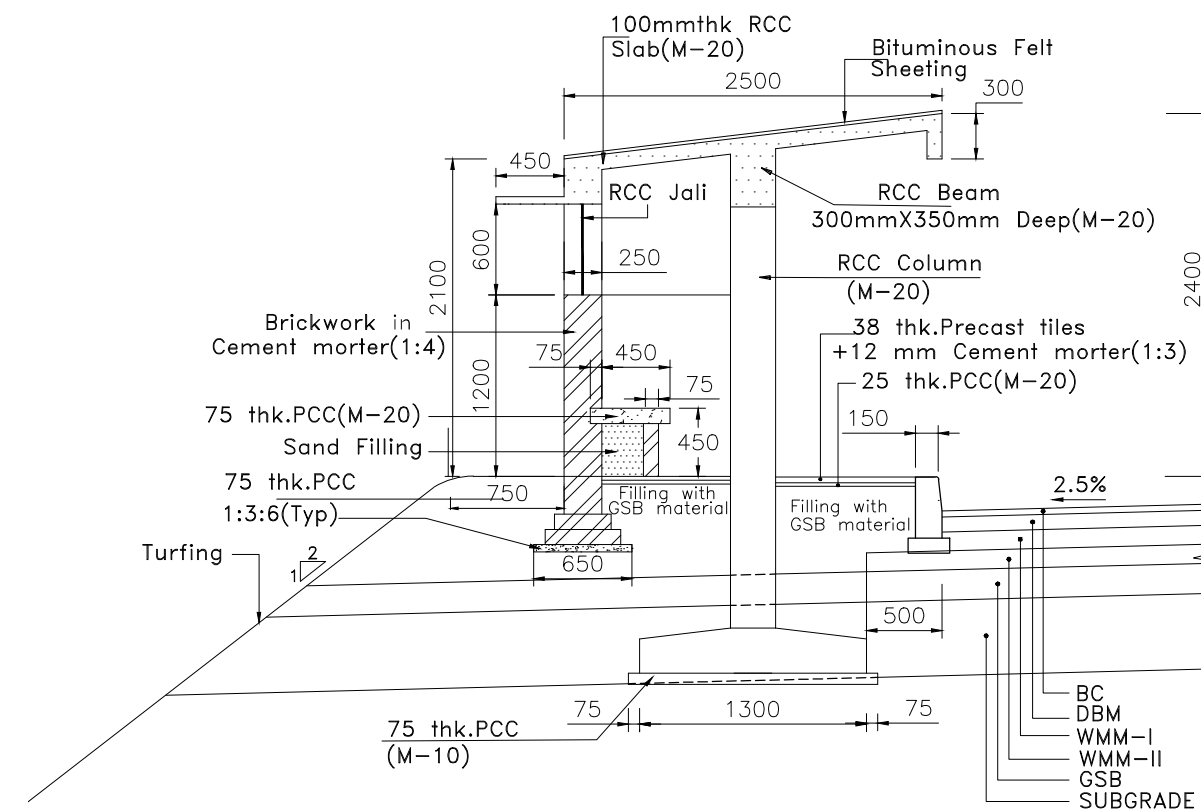
Foundation Plan
Scale 1:75



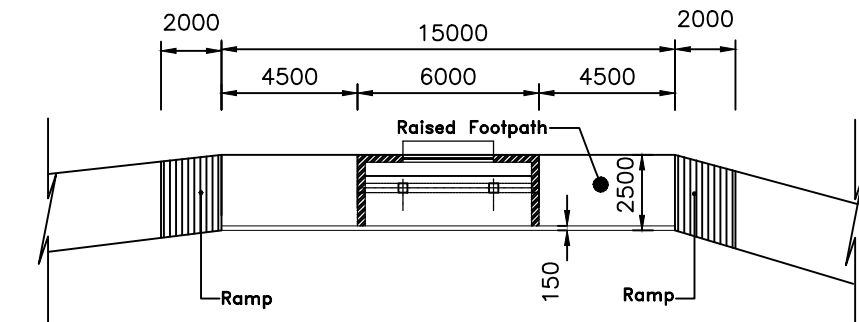
Front Elevation
Scale 1:75



Side Elevation
Scale 1:75



Section of Passenger Shelter
Scale 1:50



Location of Passenger Shelter
Scale 1:250

CLIENT :



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GOVERNMENT OF INDIA

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

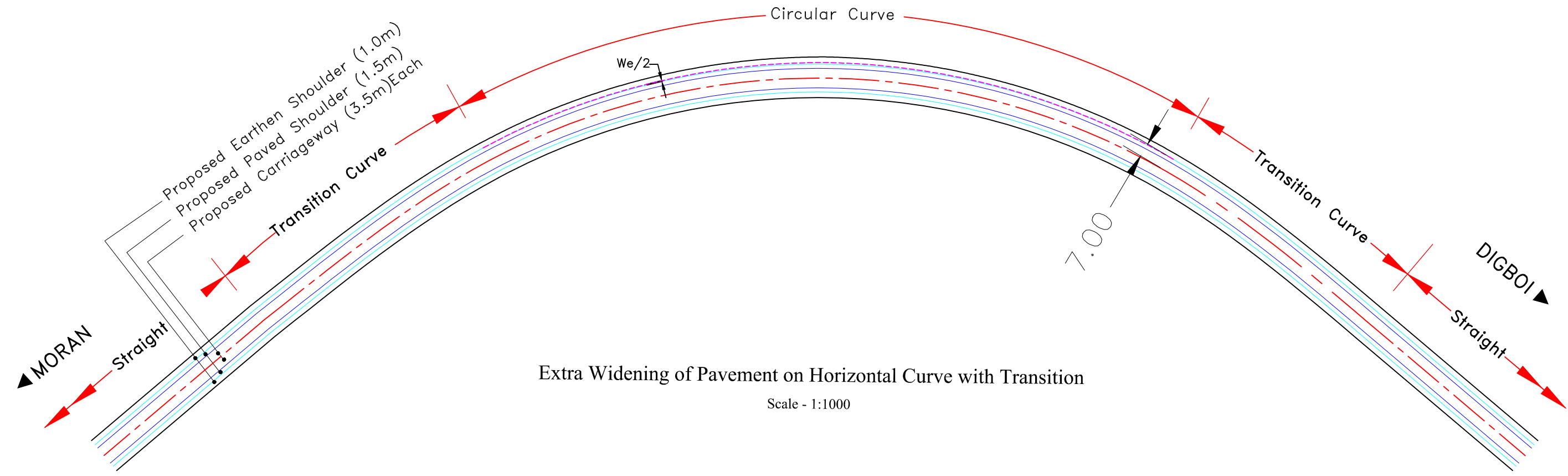


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Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

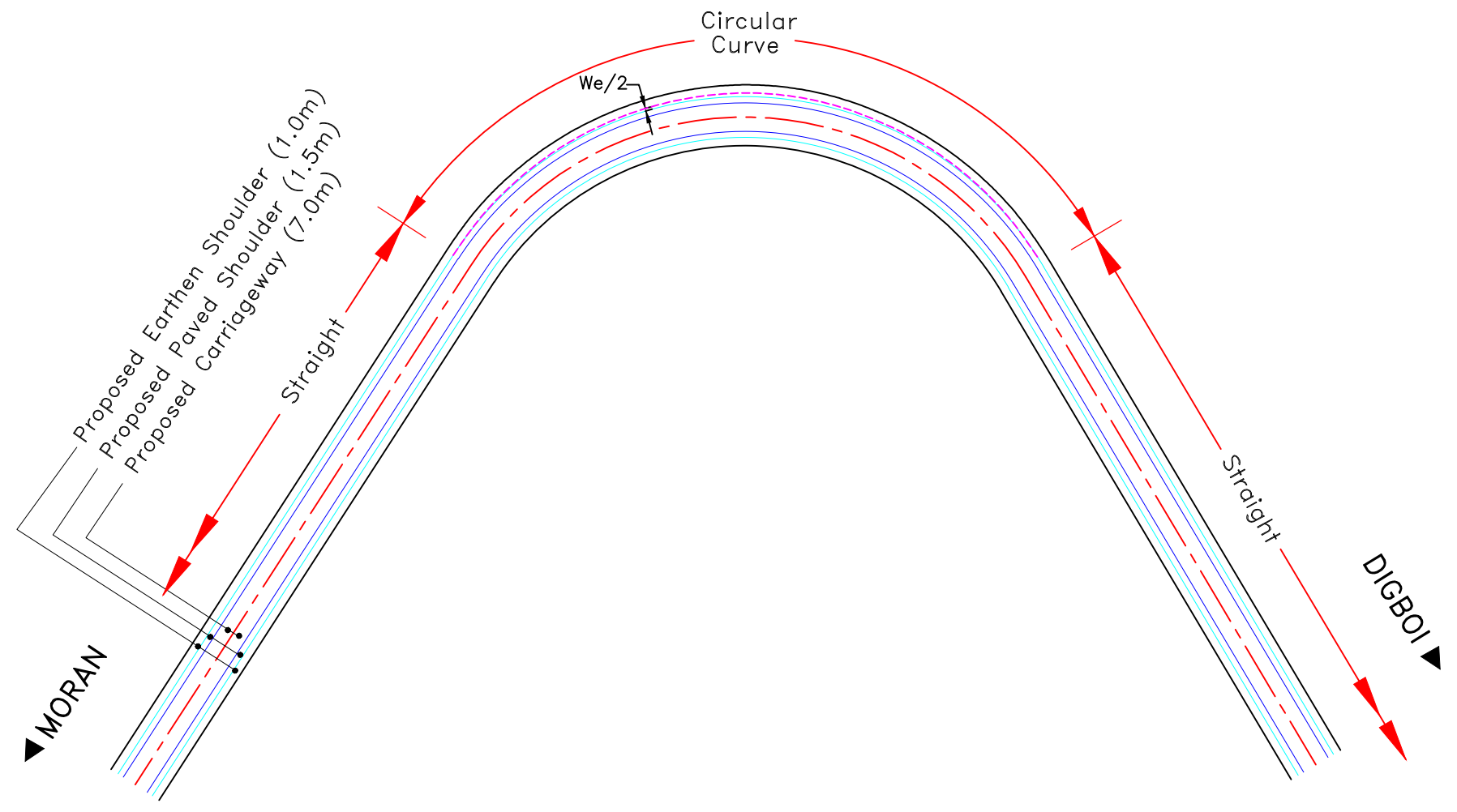
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :
PD/PS	SS/SP	DGR	SKC	Typical Detail Passenger Shelter
				DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 08
SCALE :	N.T.S	SHEET SIZE	A2	REVISION:R1
				MARCH 2022



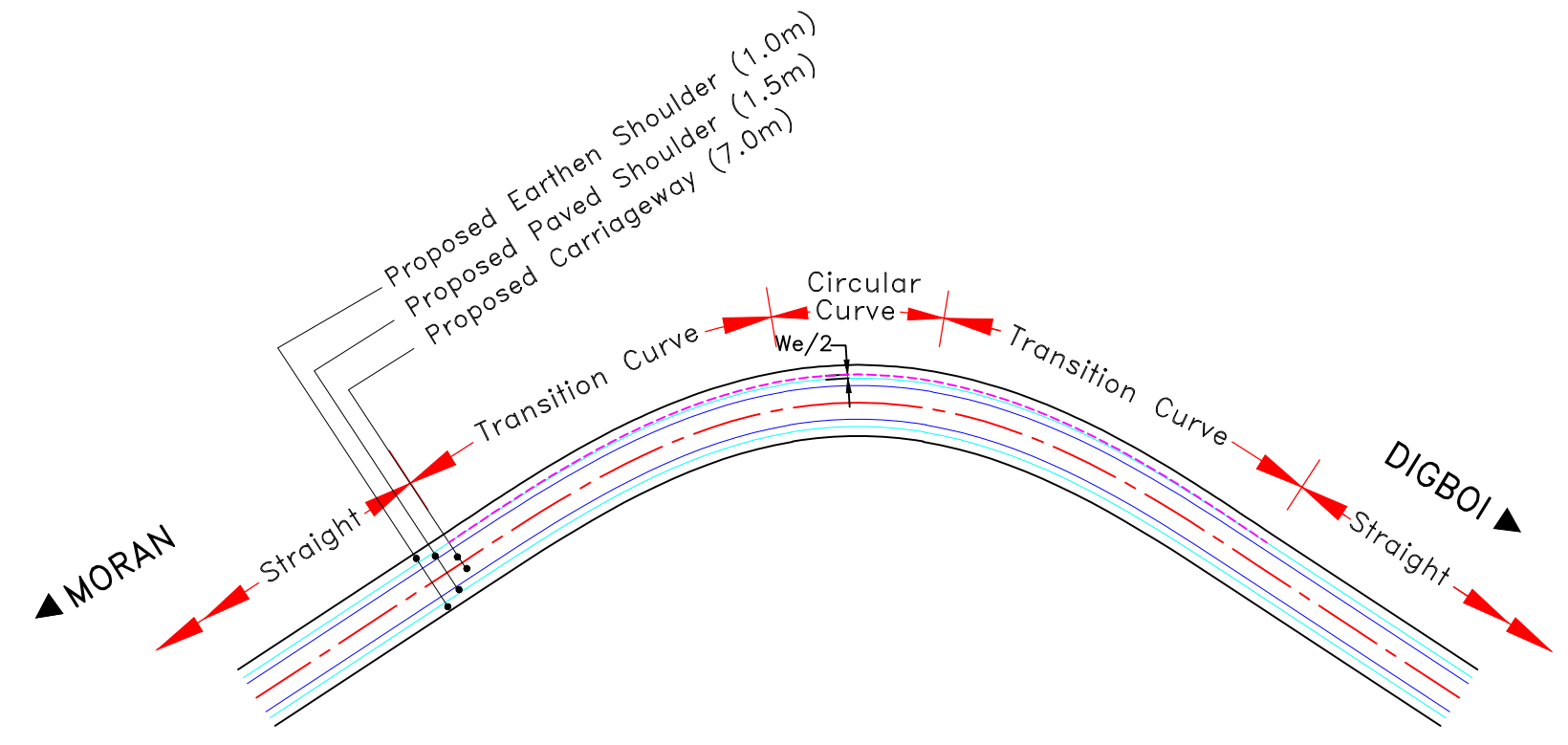
Extra Widening of Pavement on Horizontal Curve with Transition

Scale - 1:1000



Extra Widening of Pavement on Horizontal Curve (Without Transition)

Scale - 1:1000



Extra Widening of Pavement on Sharp Curve

Scale - 1:2500

Notes:

- 1.All dimensions are in metres unless otherwise mentioned.
- 2.Standards and specifications mentioned in IRC:SP:73-2015 shall be followed strictly whenever applicable.
- 3.This drawing is applicable for the stretches with raised median.

CLIENT :



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GOVERNMENT OF INDIA

PROJECT :

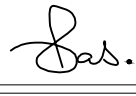
CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)

DESIGN CONSULTANT:



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403, 4th Floor, Park Centra,
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Gurugram-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

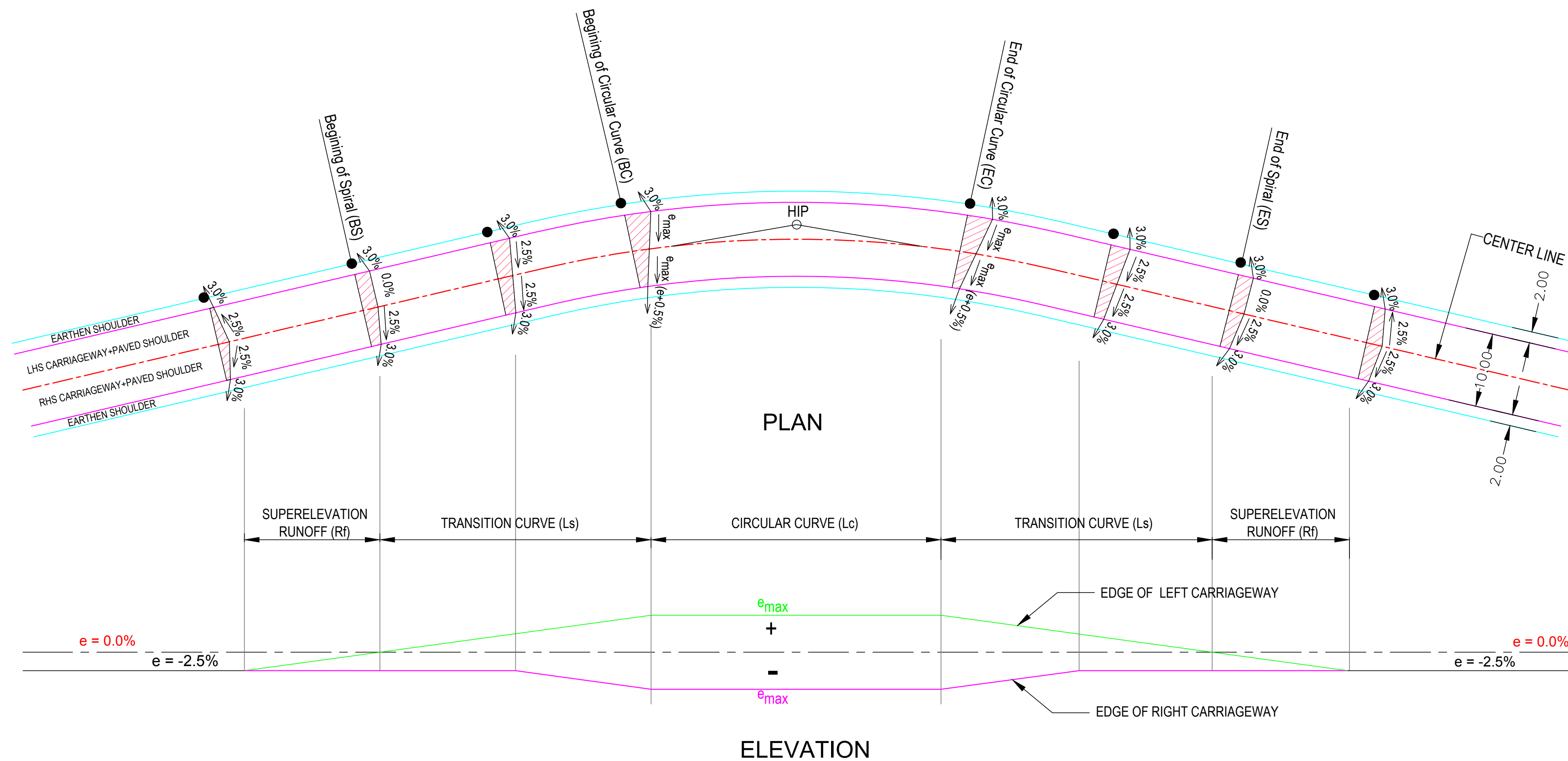
Detailed Project Report		
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
			
SCALE :	N.T.S.	SHEET SIZE	A2

TITLE :	
Typical Details of Extra Widening	
DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 09	
REVISION:R1	MARCH 2022

◀ MORAN

DIGBOI ►



Notes:

1. $R_f = L_s \times 2.5 / e$
2. Maximum Superelevation ($e_{\max}$) = $v^2 / (225 \times R)$ Limited to 5%
3. Besides the above, standards and specifications mentioned in IRC:SP:73-2015 shall be followed strictly whenever applicable.
4. All dimensions are in metres unless otherwise mentioned.

CLIENT :



**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA**

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

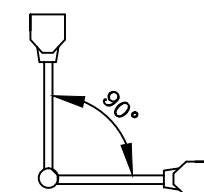
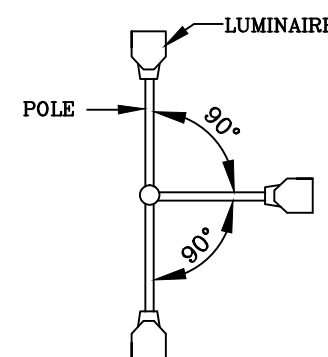
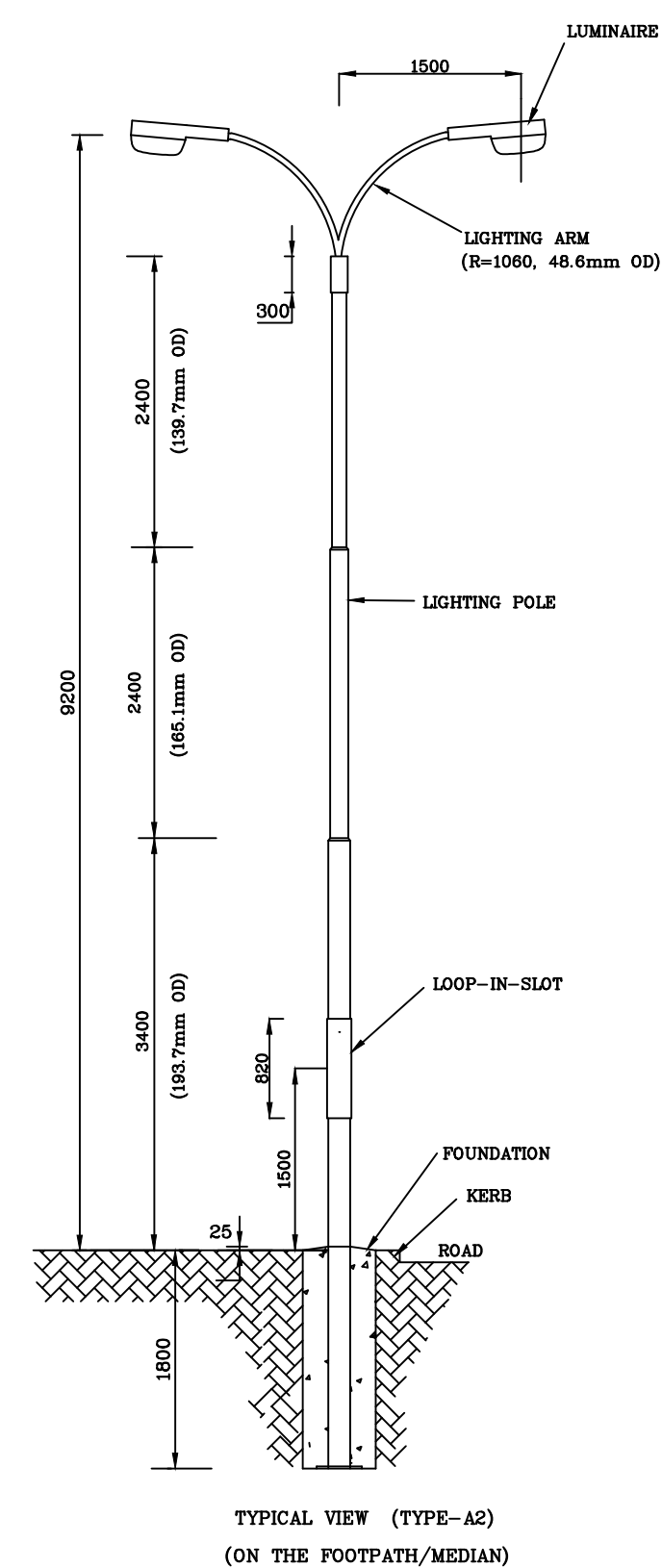
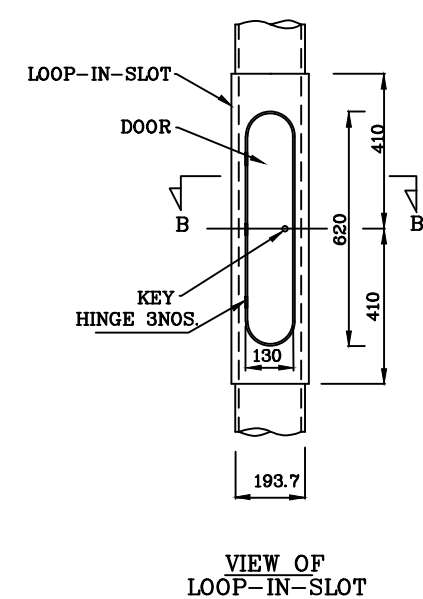
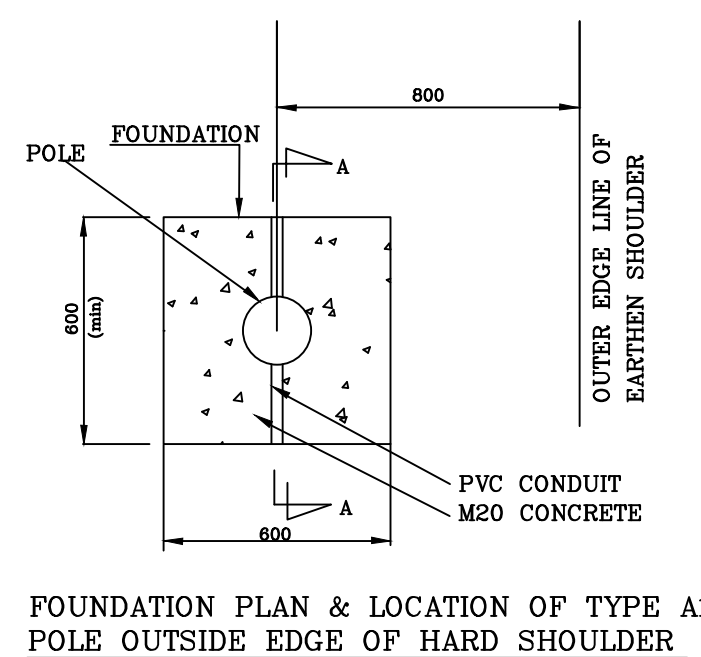
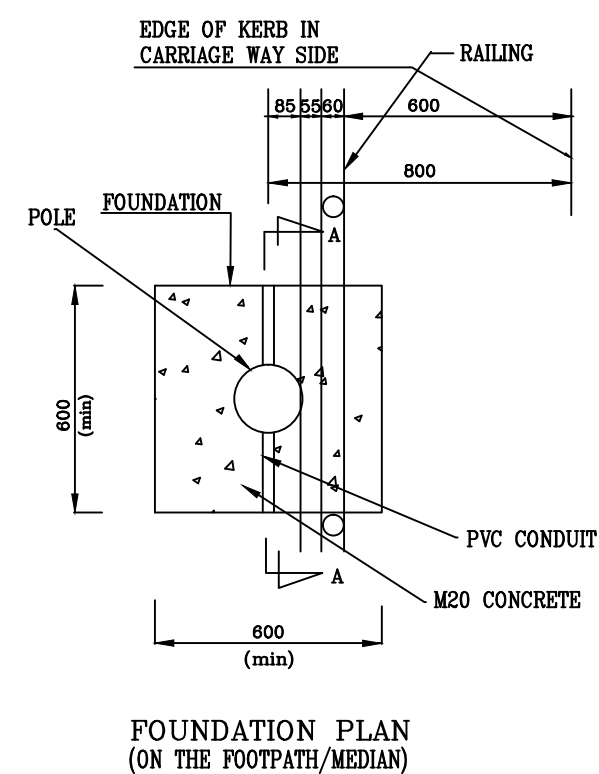
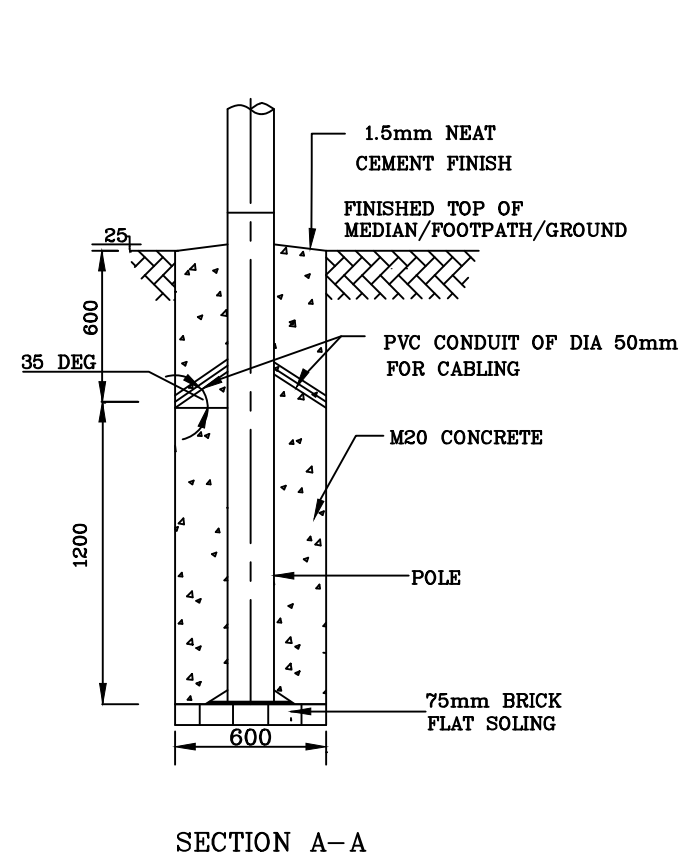
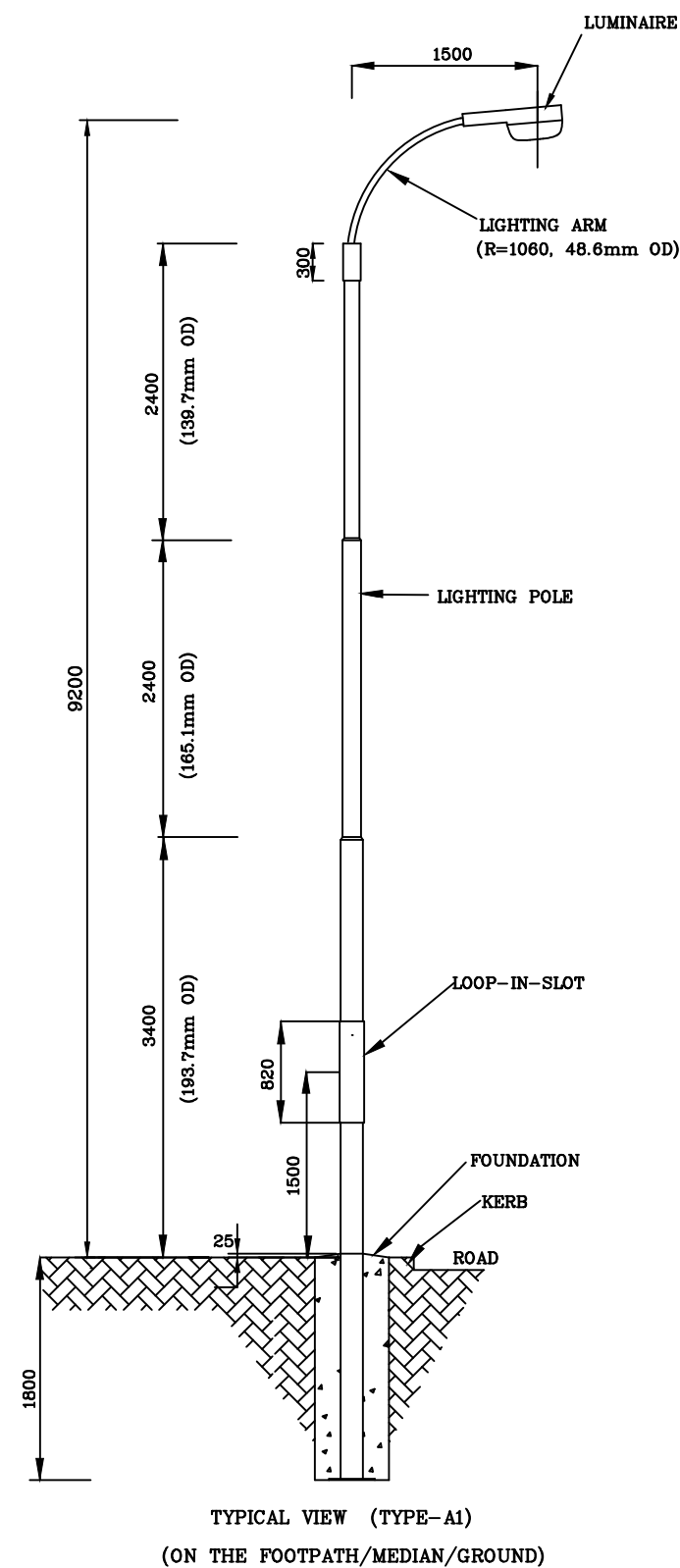


VOYANTS SOLUTIONS PVT LTD.
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Gurugram-122001, Haryana, India
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Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE : Details of Superelevation
PD/PS	SS/SP	DGR	SKC	
				
SCALE :	N.T.S.	SHEET SIZE	A2	DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 10
				REVISION:R1 MARCH 2022



Notes:

1. All dimensions are in millimetres unless otherwise mentioned.
2. Pole type- 410SP46 as per IS:2713 (P.T.- 1 to 3) :1980
3. Dimensions are indicative, may vary during execution of work
4. Besides the above, standards and specifications mentioned in IRC : SP : 84-2014 shall be followed strictly whenever applicable.

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GOVERNMENT OF INDIA

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ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
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CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

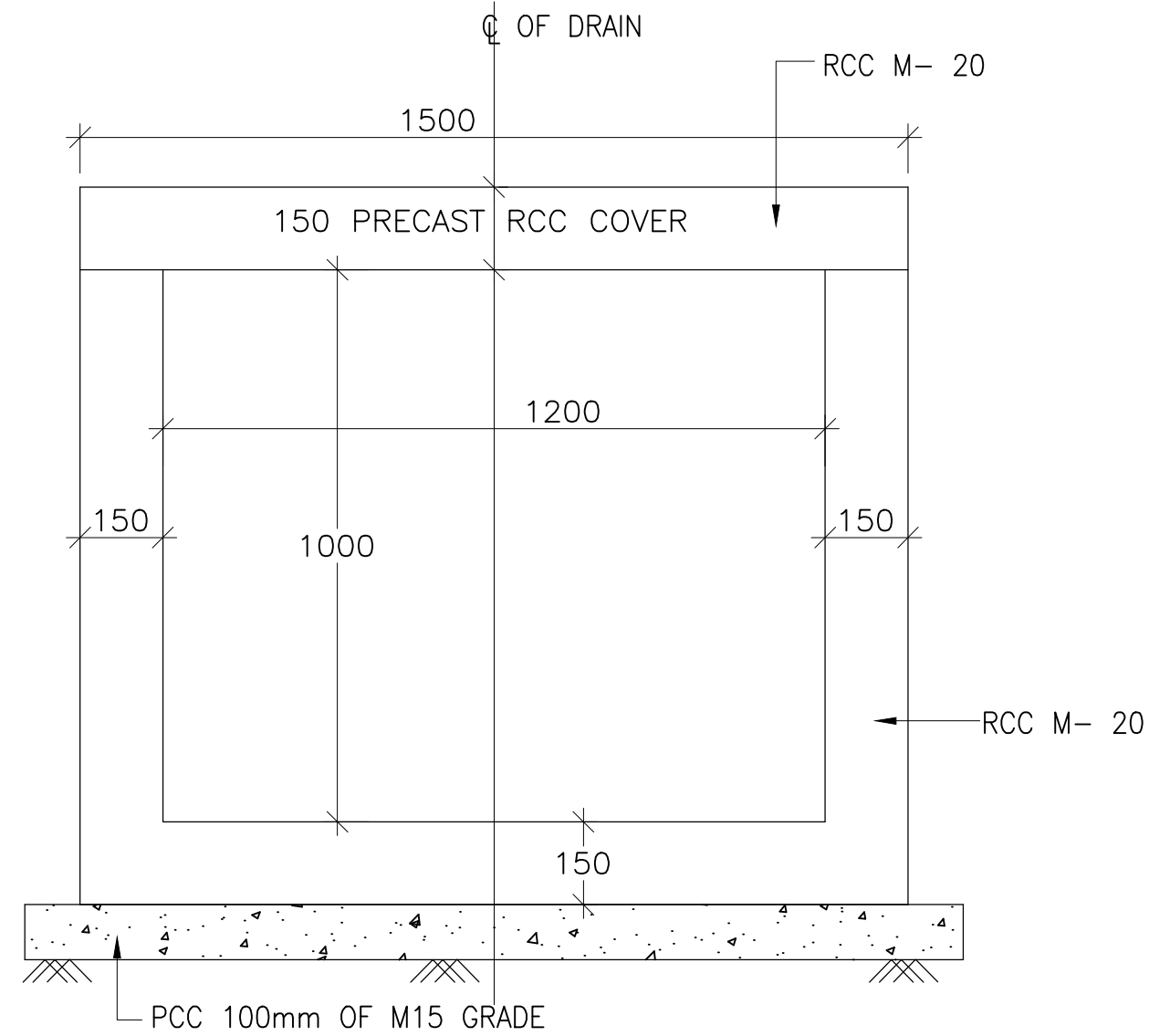
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	N.T.S	SHEET SIZE	A2

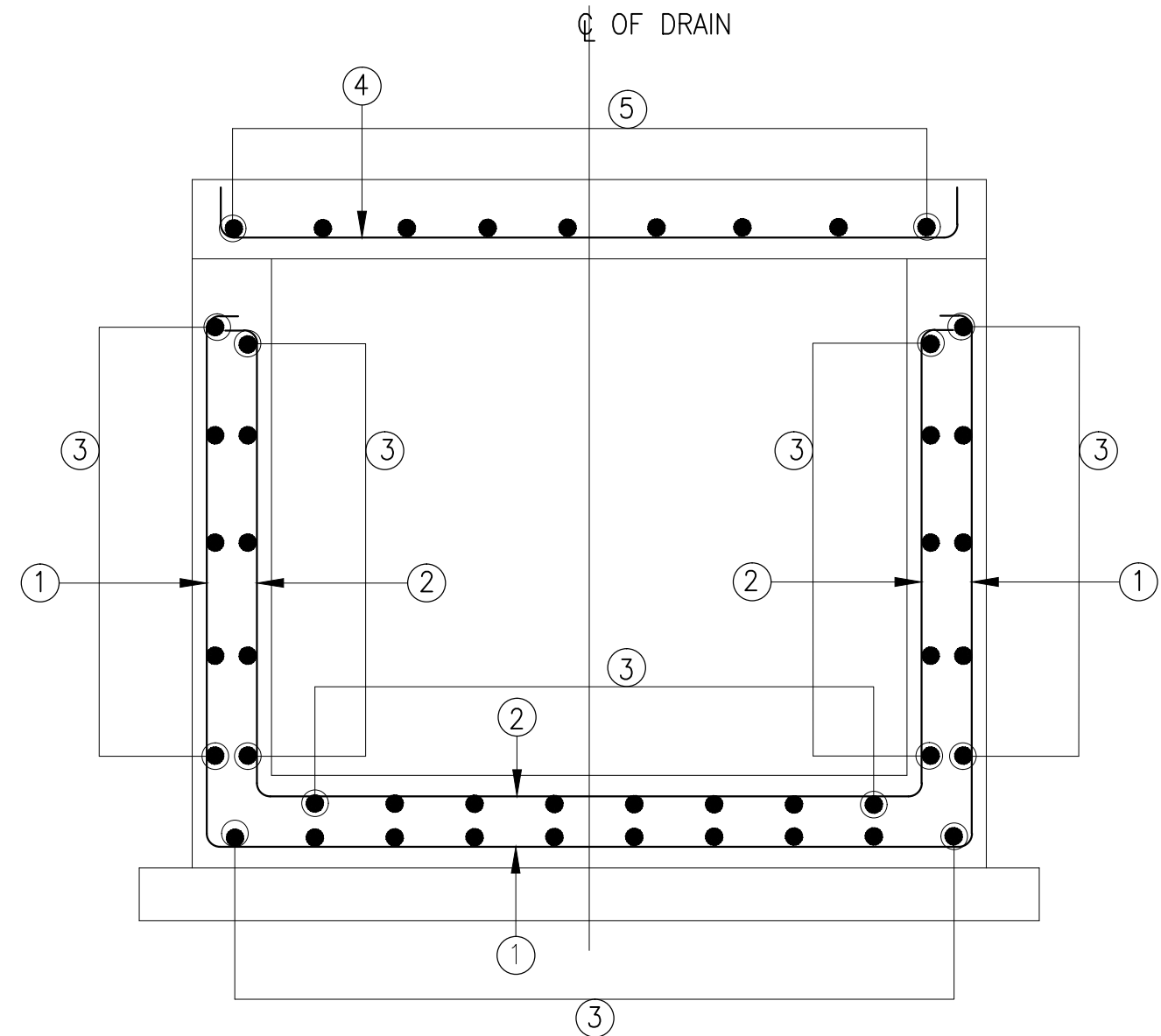
TITLE :
**Typical Details of Single Arm
and Double Arm Street
Lighting Arrangement**

DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS-	11
REVISION:R1	MARCH 2022

DETAILS OF DRAIN AT BUILT UP SECTION



DETAILS OF DRAIN CROSS SECTION
AT 2 LANE BUILT UP SECTION
(SCALE 1:25)



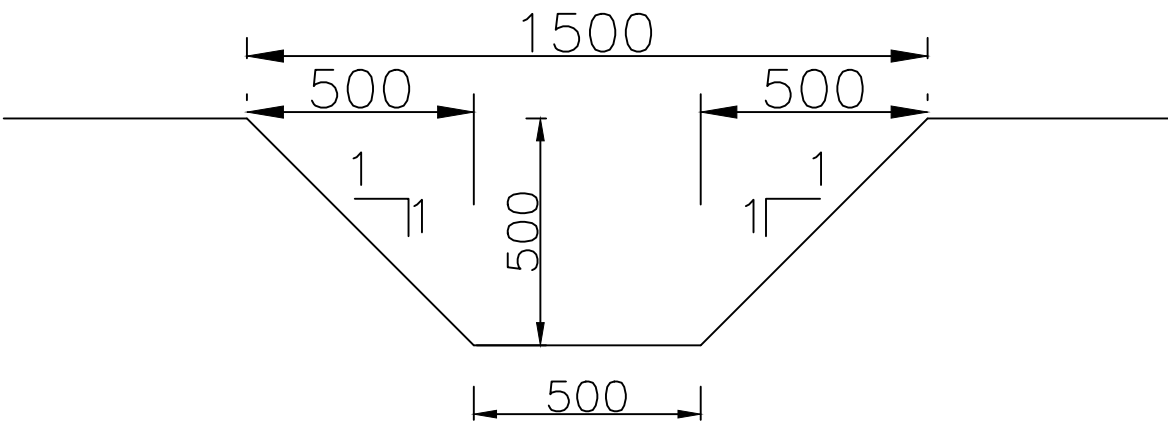
REINFORCEMENT DETAIL OF DRAIN
(SCALE 1:25)

REINF. SCHEDULE

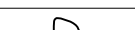
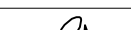
BAR MARK	SHAPE OF BARS (NOT TO SCALE)	BAR DIA. in mm.	SPACING in mm.
①		10	200
②		8	200
③		8	250
④		10	200
⑤		8	250

Notes:

1. All dimensions are in millimetres unless otherwise mentioned.
2. Standards and specifications mentioned in IRC : SP: 73-2017 shall be followed strictly whenever applicable.



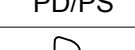
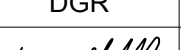
Trapezoidal Unlined Drain

CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurugram-122001, Haryana, India CIN- U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detailed Project Report				DESIGNED BY DRAWN BY CHECKED BY APPROVED BY		TITLE : Typical Details of Drain	
			PD/PS 		SS/SP 		DGR 		SKC 	
			REV. DATE		DESCRIPTION		SCALE : N.T.S.		SHEET SIZE A2	
DRG. No. : VSPL/1718-082/DPR/PKG-4/MIS- 12										
REVISION:R1								MARCH 2022		

☰ ***TBM & GPS List*** ☰

PATH: F:\Working_Software_Sett\March_2023\1718-082_Pkg-4\8.TBM & GPS List\TBM & GPS List_PKG-4_Sec-5.dwg

GPS List (Sec-5)_NH-38				
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2	GPS - 1A	761280.061	3029466.539	151.125
3	GPS - 2	761353.444	3029519.443	150.091
4	GPS - 2A	763249.487	3027992.205	155.894
5	GPS - 3	763268.843	3027798.059	154.635
6	GPS - 3A	764219.761	3025672.397	141.989
7	GPS - 4	764338.468	3025490.794	140.338
8	GPS - 4A	766171.353	3023375.229	138.782
9	GPS - 5	766332.030	3023254.625	139.702
10	GPS - 5A	769050.438	3022786.823	141.459
11	GPS - 6	769164.808	3022820.607	140.861
12	GPS - 6A	772301.937	3023788.110	143.977
13	GPS - 7	772424.116	3023770.441	143.946
14	GPS - 7A	775493.111	3022988.679	152.732
15	GPS -8	775670.452	3023156.570	152.743

CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurugram-122001, Haryana, India CIN- U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detailed Project Report		DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE : TBM & GPS List of NH-38			
					PD/PS	SS/SP	DGR	SKC				
												
			REV.	DATE	DESCRIPTION	SCALE :		N.T.S.	SHEET SIZE	A2	DRG. No. : VSPL/1718-082/DPR/PKG-4/S5/List- 01	
												REVISION:R1

TBM Pilar List (Sec-5)_NH-38				
1	PILLAR-1	762547.442	3029505.0410	151.492
2	PILLAR-2	762754.867	3029358.1310	152.8580
3	PILLAR-3	762954.639	3029212.4430	152.6770
4	PILLAR-4	763066.3150	3028984.4410	151.0030
5	PILLAR-5	763143.8980	3028777.7900	153.4660
6	PILLAR-6	763187.1710	3028476.6540	155.7870
7	PILLAR-7	763231.9320	3028196.9650	155.9850
8	PILLAR-8	763321.6670	3027557.7100	150.3020
9	PILLAR-9	763361.5210	3027313.5870	153.2700
10	PILLAR-10	763401.4380	3027084.6430	151.4130
11	PILLAR-11	763416.1680	3026881.3910	143.5450
12	PILLAR-12	763471.8090	3026557.8340	142.9140
13	PILLAR-13	763602.4750	3026309.9170	144.2580
14	PILLAR-14	763762.0590	3026141.1940	142.9630
15	PILLAR-15	763942.5990	3025903.2550	145.6760
16	PILLAR-16	764462.1320	3025282.4610	139.6230
17	PILLAR-17	764696.8620	3025044.2270	139.7450
18	PILLAR-18	764911.3820	3024807.1950	140.3410
19	PILLAR-19	765019.5890	3024666.0740	140.6410
20	PILLAR-20	765227.6720	3024455.0470	142.2040
21	PILLAR-21	765227.6720	3024455.0480	142.2050
22	PILLAR-22	765352.7250	3024266.5920	140.2300
23	PILLAR-23	765482.1410	3024084.1630	137.5440
24	PILLAR-24	765482.1410	3024084.1640	137.5450
25	PILLAR-25	765713.7800	3023850.9850	136.9720
26	PILLAR-26	765982.8610	3023563.0130	138.4080
27	PILLAR-27	765982.8610	3023563.0120	138.4060
28	PILLAR-28	766489.8680	3023142.7890	139.7280
29	PILLAR-29	766660.0050	3023054.2420	138.7610
30	PILLAR-30	766906.1840	3022887.3600	139.5700
31	PILLAR-31	767117.7030	3022693.5420	139.2390
32	PILLAR-32	767117.7070	3022693.5390	139.2350
33	PILLAR-33	767161.6800	3022599.0300	137.8680
34	PILLAR-34	767324.4840	3022280.2740	139.5250

TBM Pilar List (Sec-5)_NH-38				
35	PILLAR-35	767526.8690	3022221.7600	139.7720
36	PILLAR-36	768073.8780	3022413.2440	140.0860
37	PILLAR-37	768289.0230	3022504.4490	141.3180
38	PILLAR-38	768565.2200	3022606.4750	140.7400
39	PILLAR-39	768833.9720	3022691.6530	140.8780
40	PILLAR-40	769415.8300	3022900.1330	141.5350
41	PILLAR-41	769645.2750	3023022.5230	142.1790
42	PILLAR-42	769901.0900	3023079.3320	142.1800
43	PILLAR-43	770155.9940	3023184.9990	142.1220
44	PILLAR-44	770426.0690	3023299.5280	141.3610
45	PILLAR-45	770760.0180	3023409.2090	141.9740
46	PILLAR-46	771058.5120	3023487.8430	143.7380
47	PILLAR-47	771330.7890	3023560.6040	141.9770
48	PILLAR-48	771585.0590	3023634.0920	142.0550
49	PILLAR-49	771777.6330	3023657.7150	141.9920
50	PILLAR-50	772054.1740	3023695.1780	148.2890
51	PILLAR-51	772772.7200	3023868.8160	143.1230
52	PILLAR-52	773024.7700	3023879.1890	146.6820
53	PILLAR-53	773276.2110	3023932.9290	148.6180
54	PILLAR-54	773506.2420	3023890.6930	148.1700
55	PILLAR-55	773726.2600	3023862.5130	147.9550
56	PILLAR-56	773960.1450	3023737.3040	147.7000
57	PILLAR-57	774260.4000	3023629.7370	146.7400
58	PILLAR-58	774538.1050	3023468.6170	148.7780
59	PILLAR-59	775149.8130	3023281.9420	149.5170
60	PILLAR-60	775348.6050	3023179.1870	152.5400
61	PILLAR-61	757872.265	3037358.627	138.926
62	PILLAR-62	757884.876	3037052.329	139.137
63	PILLAR-63	757937.173	3036764.897	138.986

CLIENT :



PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



Detailed Project Report

REV.	DATE	DESCRIPTION

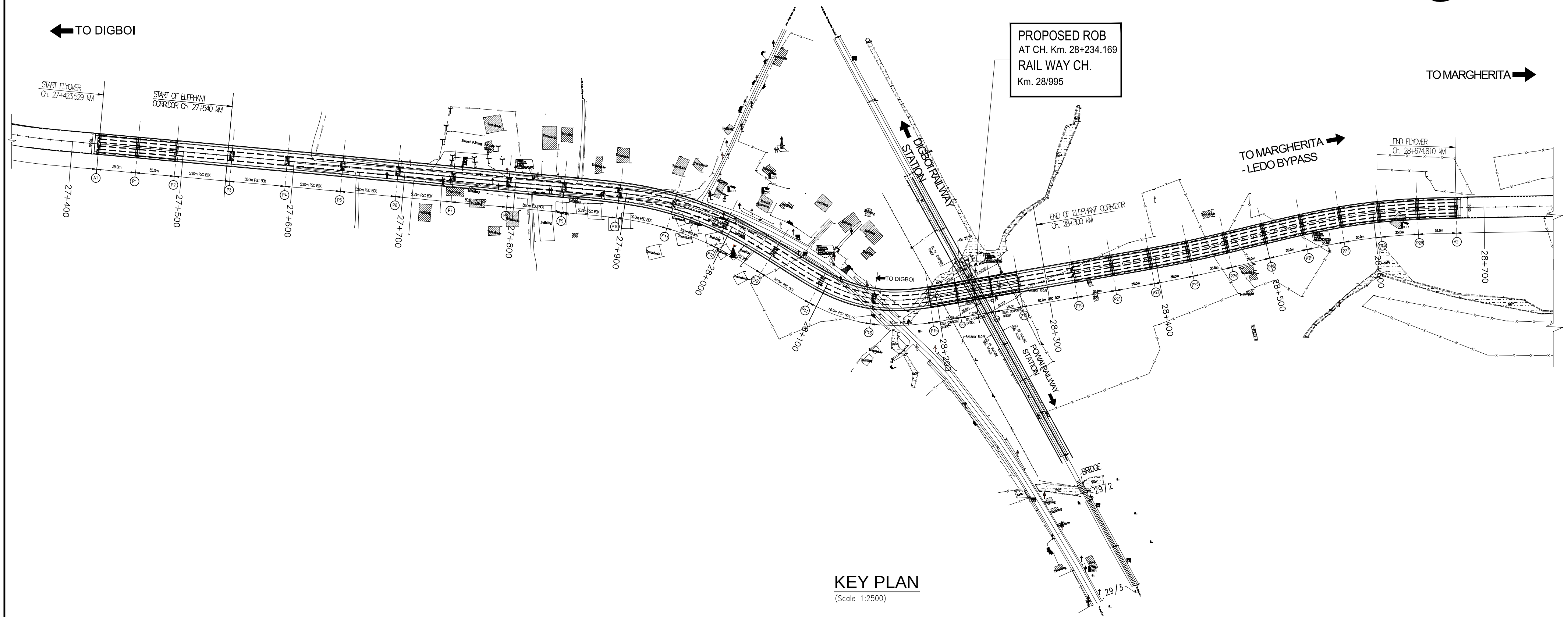
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	N.T.S.	SHEET SIZE	A2

TITLE :
**TBM & GPS List
of NH-38**

DRG. No. :
VSPL/1718-082/DPR/PKG-4/S5/List- 02

REVISION:R1
March 2023

≡ STRUCTURE WORKS ≡

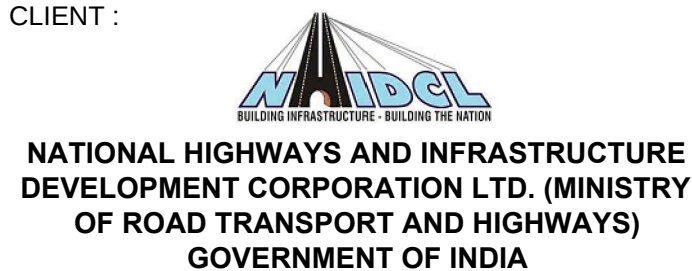


KEY PLAN
(Scale 1:2500)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES. UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

CLIENT :



PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)

DESIGN CONSULTANT:

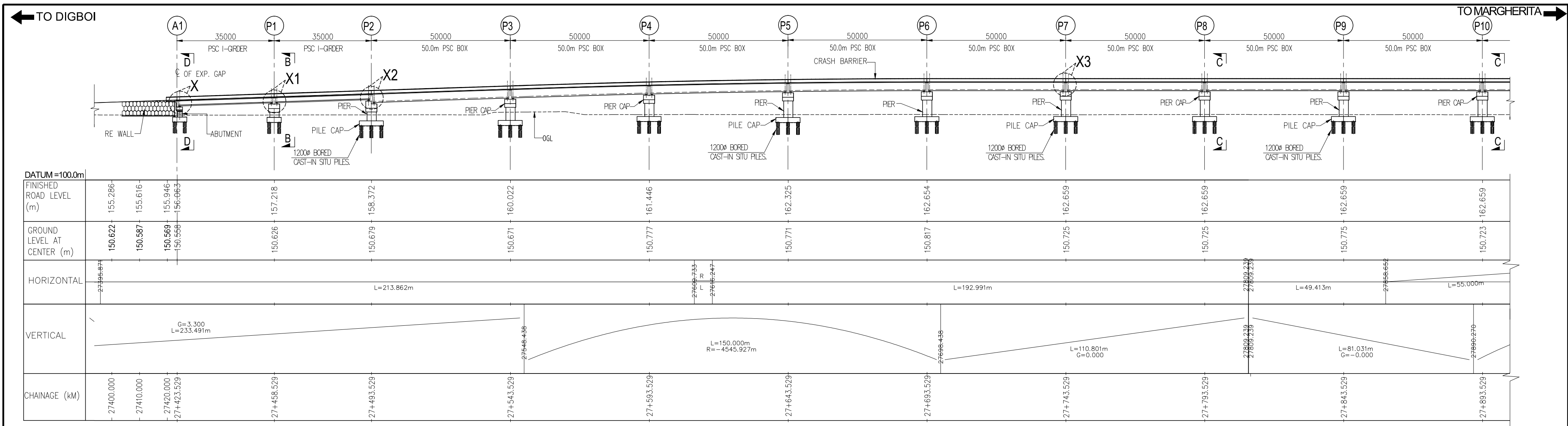


Detailed Project Report

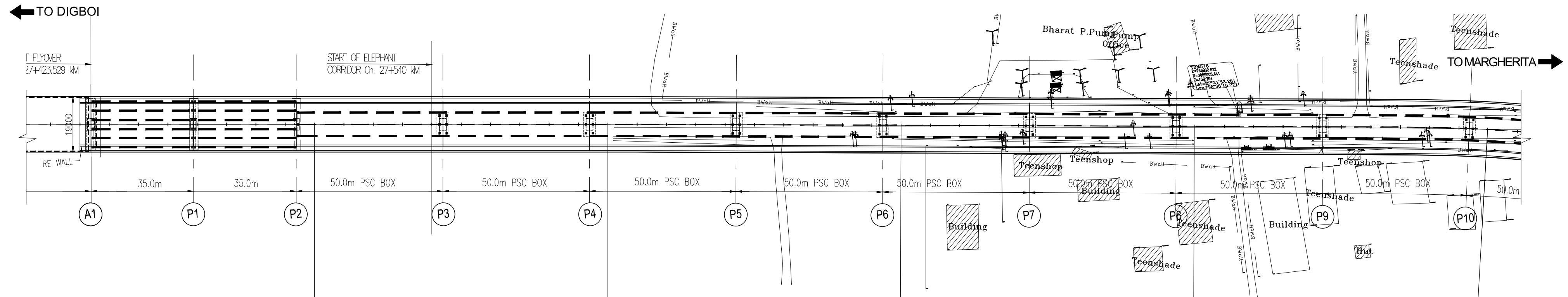
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SLM	G. Das	SG	SKC
SCALE :	AS SHOWN	SHEET SIZE	A2

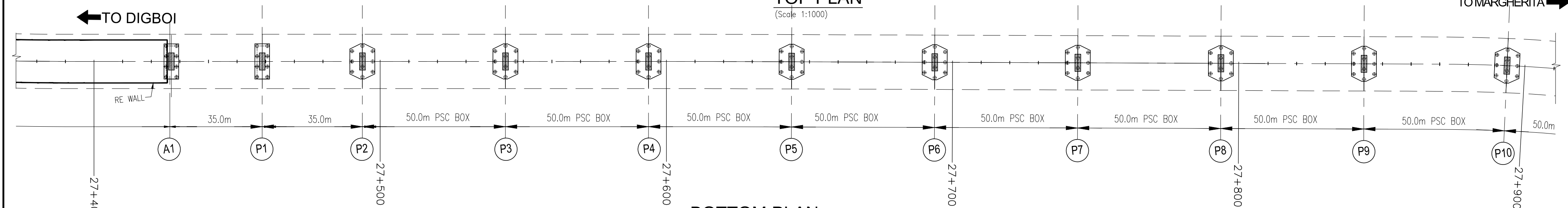
TITLE : GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE ROB CUM ELEPHANT UNDERPASS AT Km. Ch.- 28+234.169		
DRG. No. : VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01	(Sht. 1 of 6)	
REVISION:	R1	March, 2023



SECTION ELEVATION
(Scale 1:1000)



TOP PLAN
(Scale 1:1000)



BOTTOM PLAN
(Scale 1:1000)

CLIENT :



NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD. (MINISTRY
OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

PROJECT :

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FREIGHT MOVEMENTS IN INDIA UNDER
BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)

DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SLM	G. Das	SG	SKC
			
SCALE :	AS SHOWN	SHEET SIZE	A2

TITLE :

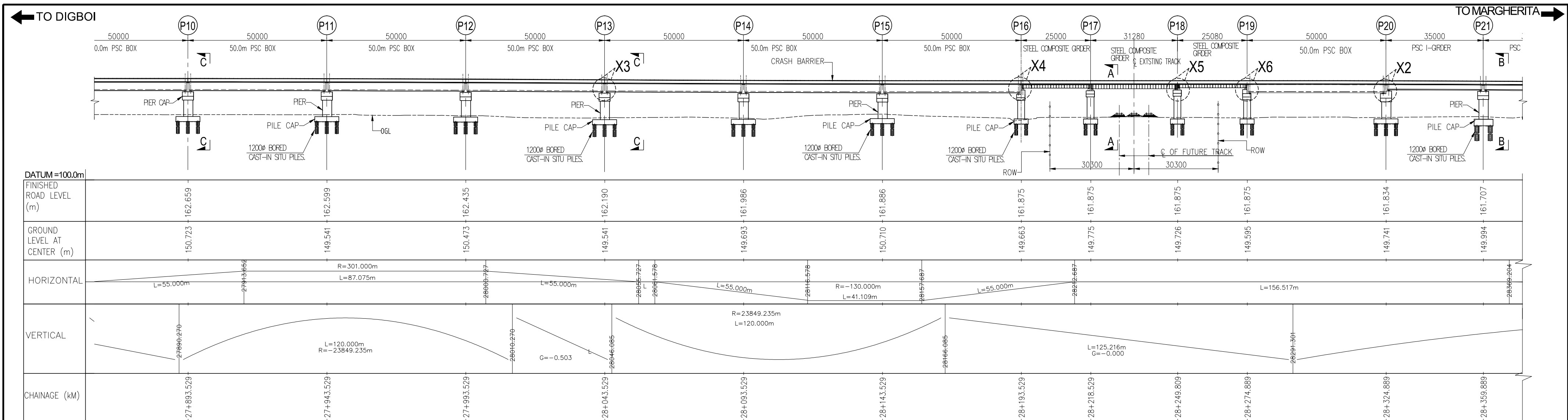
GENERAL ARRANGEMENT DRAWING
OF MAJOR BRIDGE ROB CUM ELEPHANT
UNDERPASS AT Km. Ch.- 28+234.169

DRG. No. : (Sht. 2 of 6)
VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01

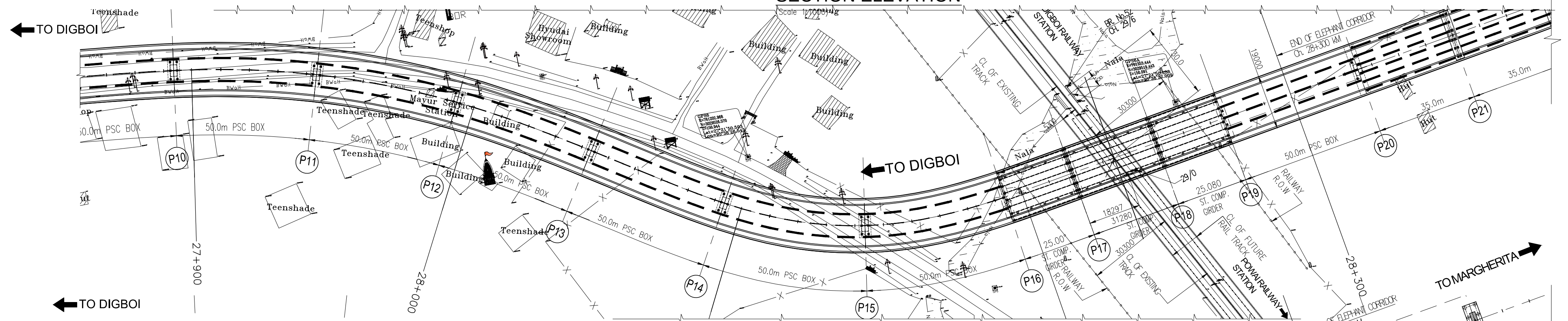
REVISION:

R1

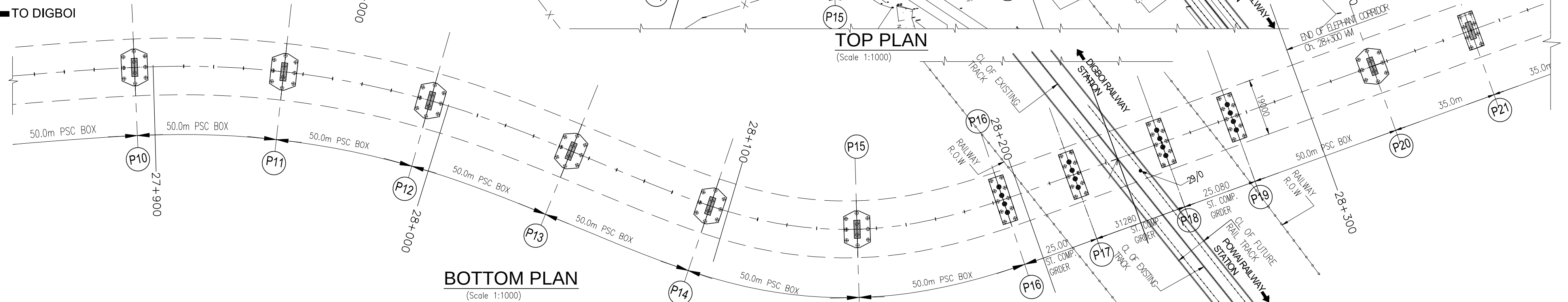
March, 2023



SECTION ELEVATION

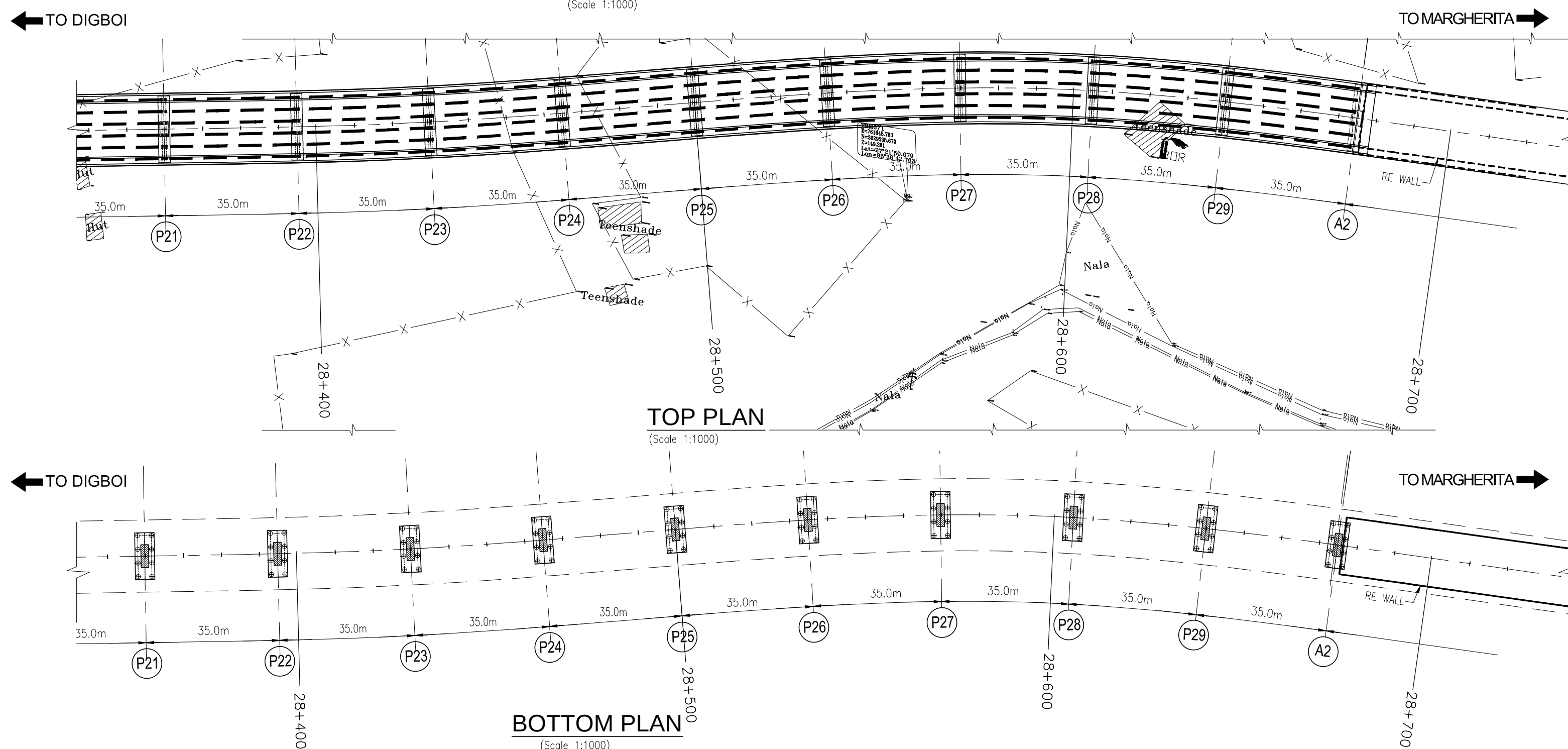
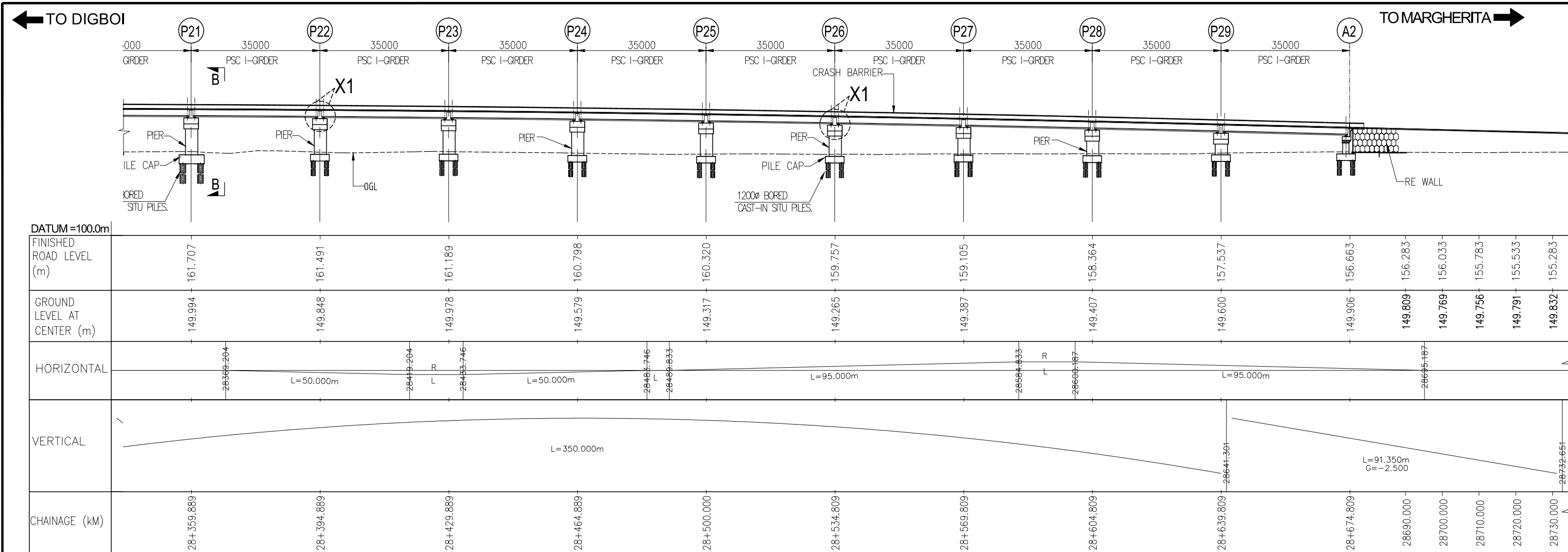


TOP PLAN



BOTTOM PLAN

CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurgaon-122001, Haryana, India CIN- U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detaild Project Report				TITLE : GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE ROB CUM ELEPHANT UNDERPASS AT Km. Ch.- 28+234.169			
			DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRG. No. : (Sht. 3 of 6) VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01			
			SLM	G. Das	SG	SKC	REVISION: R1 March, 2023			
										
			SCALE :	AS SHOWN	SHEET SIZE	A2				
REV.	DATE	DESCRIPTION								



NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES AND CHAINAGES ARE IN KILOMETRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT HIGHWAY PLAN AND PROFILE DRAWING.
- EACH UNIT OF PROPOSED STRUCTURE IS DESIGNED FOR TWO LANES OF IRC CLASS 70R LOADING WITH TWO LANES OF IRC CLASS A LOADING OR ONE LANE OF IRC CLASS 70R LOADING WITH FOUR LANES OF IRC CLASS A LOADING OR SIX LANES OF IRC CLASS A LOADING WHICHEVER GOVERNS WITH APPROPRIATE LANE REDUCTION FACTOR AS PER PROVISION OF IRC: 6-2017. FURTHER THE PROPOSED STRUCTURE IS ALSO CHECKED FOR IRC CLASS SPECIAL VEHICLE (SV) LOADING AS PER PROVISION OF IRC: 6-2017.
- GRADE OF CONCRETE FOR VARIES ELEMENTS SHALL BE AS FOLLOWS:
 - PSC BOX GIRDER M50
 - PSC I-GIRDER M50
 - RCC DECK SLAB.....M45
 - ABUTMENT / ABUTMENT CAP.....M35
 - PIER / PIER CAPM40
 - PILE / PILE CAPM35
 - RCC RETURN/RETAINING WALL.....M30
 - CRASH BARRIER.....M40
 - APPROACH SLABM30
 - PCC LEVELING COURSEM15
- GRADE OF STEEL SHALL BE Fe-500 (H.Y.S.D. REBAR CONFORMING TO IS-1786)
- BACK FILLING BEHIND THE STRUCTURE SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2014 HAVING PROPERTIES $\phi > 30^\circ$, $C=0$, $\gamma = 2.0T/M^3$
- SOFT AND LOOSE PATCHES IN THE BEARING AREA ARE TO BE REPLACED BY COMPACTED GRANULAR FILLS WITH LAYERS NOT EXCEEDING 300MM.
- COMPRESSIBLE FILLER BOARD SHALL BE PROVIDED IN ALL EXPANSION GAPS AND SEALED WITH POLY-SULPHIDE SEALANT.
- 600MM THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SIDE WALLS AND WING WALLS AS PER IR:78-2014.
- WEARING COAT 65MM THICK ASPHALTIC CONCRETE OVER WATER PROOFING MEMBRANE.
- ALL THE LEVELS AND CAMBERS TO BE VERIFIED WITH RESPECT TO PLAN & PROFILE DRAWINGS BEFORE STARTING UP OF EXCAVATION. ANY DISCREPANCY NOTED SHOULD BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
- BACK FILLING BEHIND WALLS SHALL BE DONE SIMULTANEOUSLY ON EITHER SIDE OF THE STRUCTURE WITH HEIGHT DIFFERENCE NOT MORE THAN 1.0M. BACK FILLING SHALL BE DONE ONLY AFTER THE TOP SLAB IS CONCRETED AND CURED FOR 14 DAYS.

CLIENT :



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FREIGHT MOVEMENTS IN INDIA UNDER
BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



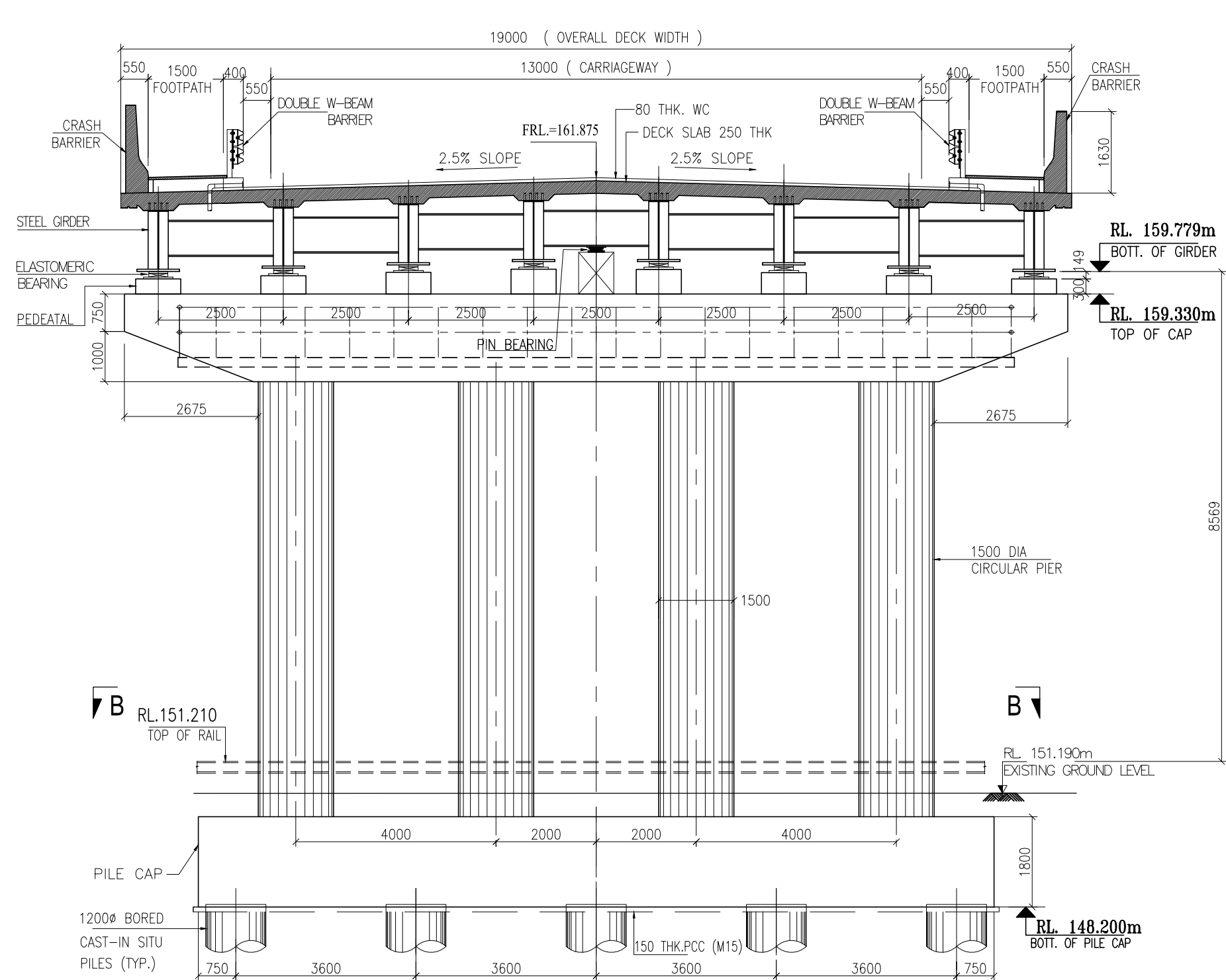
VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN- U74140HR2004PTC046918
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Detailed Project Report

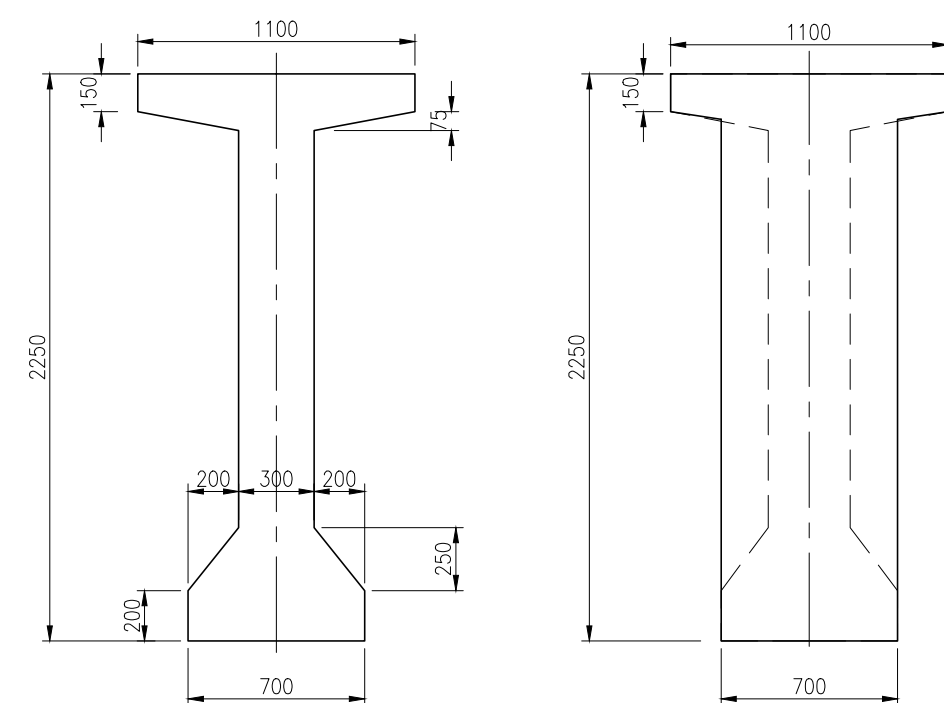
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SLM	G. Das	SG	SKC
SCALE :	AS SHOWN	SHEET SIZE	A2

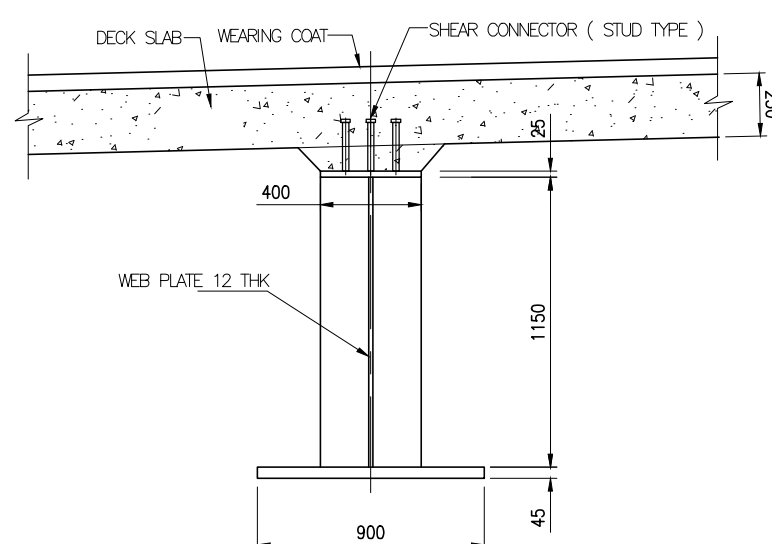
TITLE :		
GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE ROB CUM ELEPHANT UNDERPASS AT Km. Ch.- 28+234.169		
DRG. No. :		(Sht. 4 of 6)
VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01		
REVISION:	R1	March, 2023



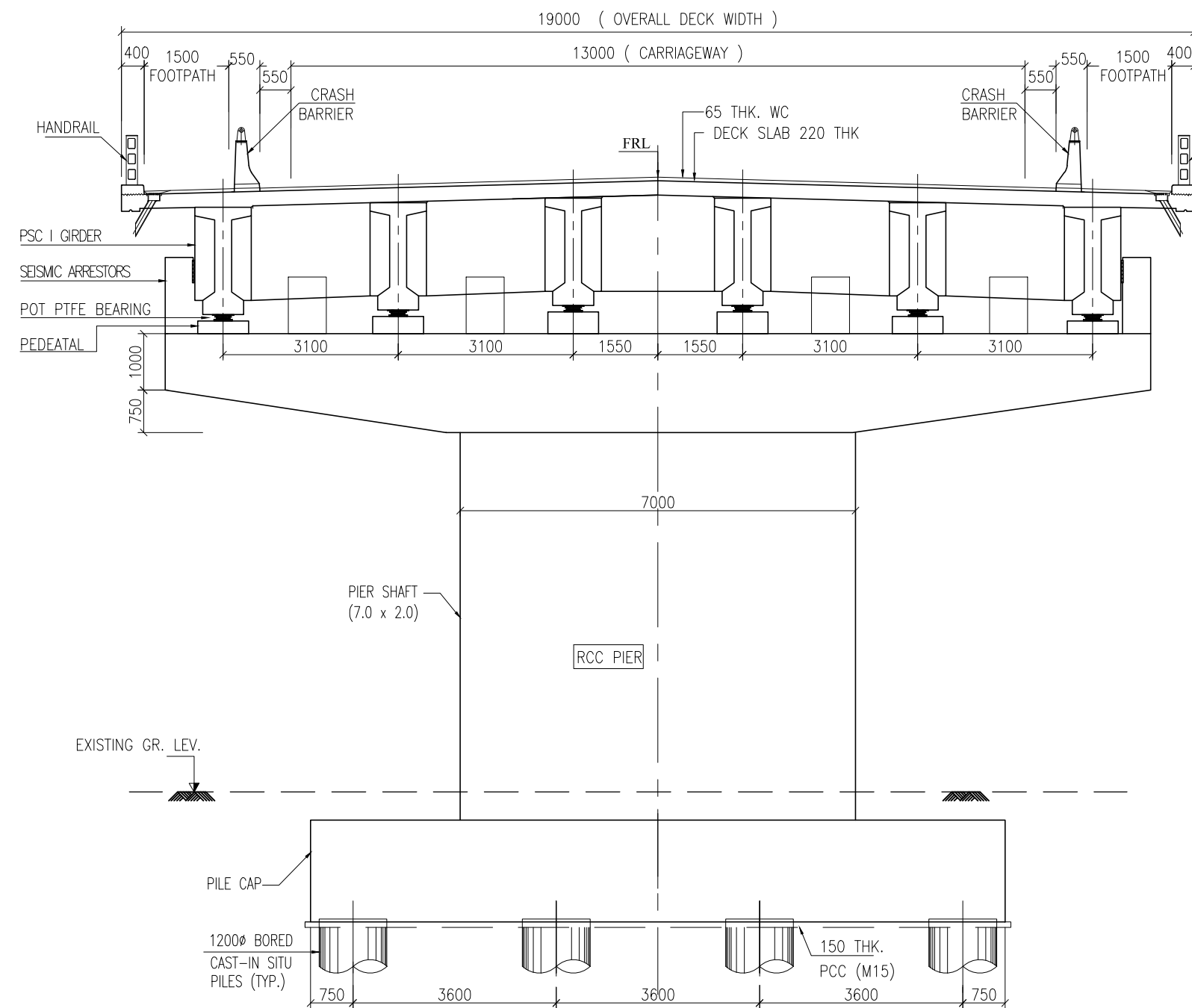
SECTION A - A
(SCALE 1:100)



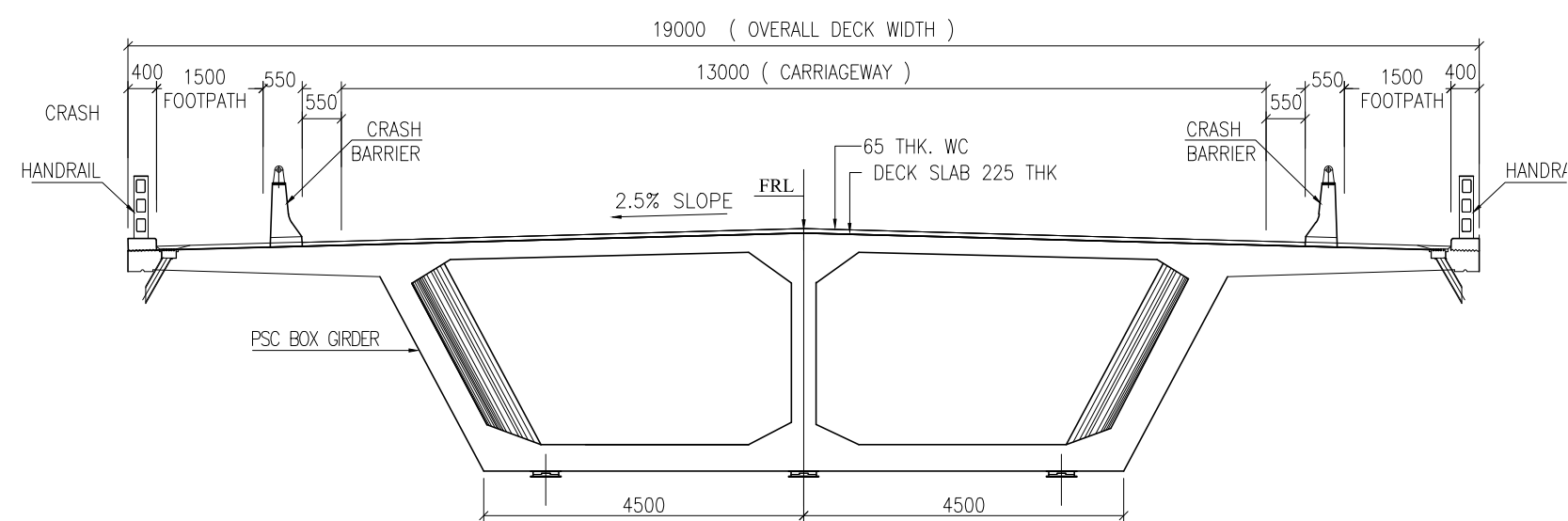
SECTION AT MID SPAN
SECTION AT END SUPPORT
DIMENSION DETAILS OF PRECAST PSC GIRDER (35.0m SPAN)
(SCALE 1:30)



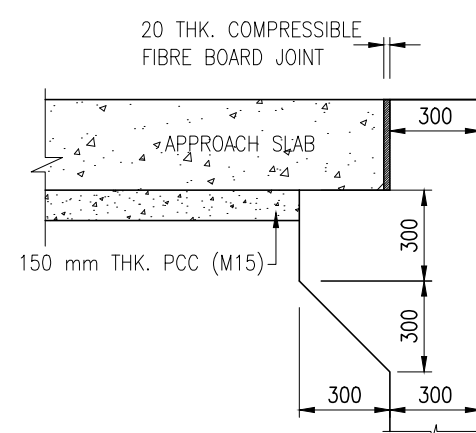
SECTION FOR 25.080m SPAN
(STEEL COMPOSITE GIRDER)
REF. DRG. RDSO/B/11773
(SCALE 1:25)



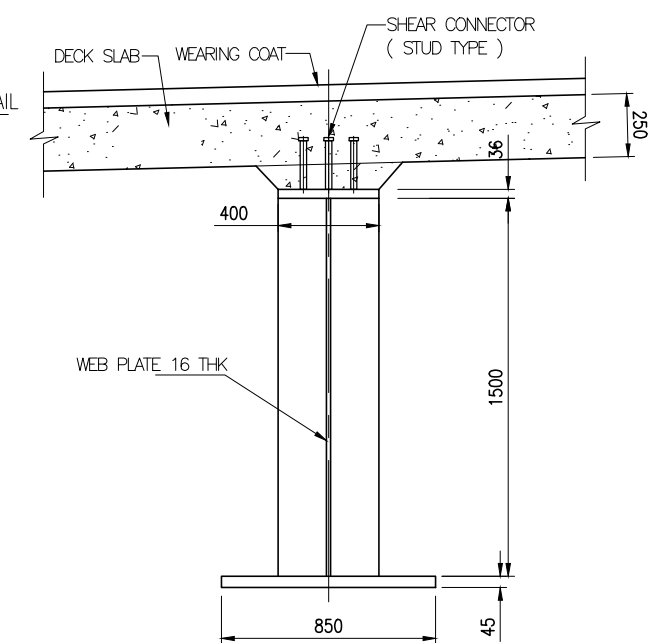
SECTION B - B
(SCALE 1:100)



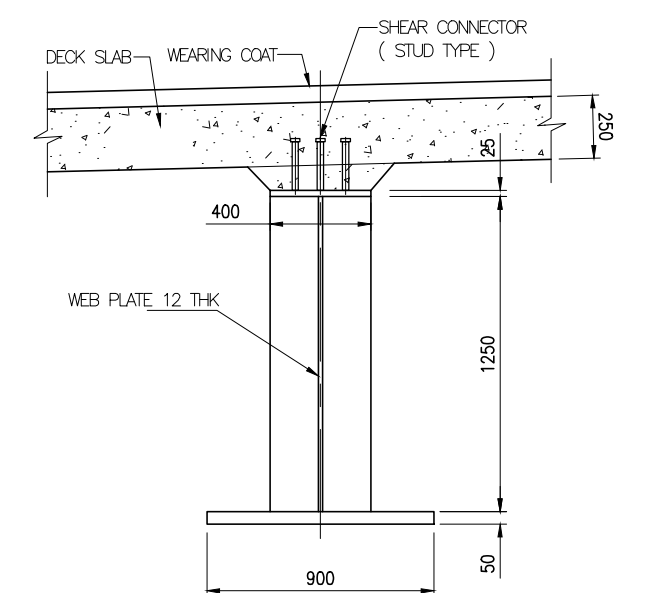
DIMENSION OF PSC BOX GIRDER
(SCALE 1:100)



DETAILS - Z
(SCALE 1:25)



SECTION FOR 37.20m SPAN
(STEEL COMPOSITE GIRDER)
REF. DRG. RDSO/B/11775
(SCALE 1:25)



SECTION FOR 31.280m SPAN
(STEEL COMPOSITE GIRDER)
REF. DRG. RDSO/B/11774
(SCALE 1:25)

NOTES :-

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M UNLESS MENTIONED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. FOR KEY PLAN, PROPOSED CHAINAGE & LOCATION REFER RELEVANT HIGHWAY DRAWING.
4. FOR NOTE DETAILS REFER DWG NO: VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01 (Sht. 04)

CLIENT :



**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD. (MINISTRY
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PROJECT :

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FREIGHT MOVEMENTS IN INDIA UNDER
BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



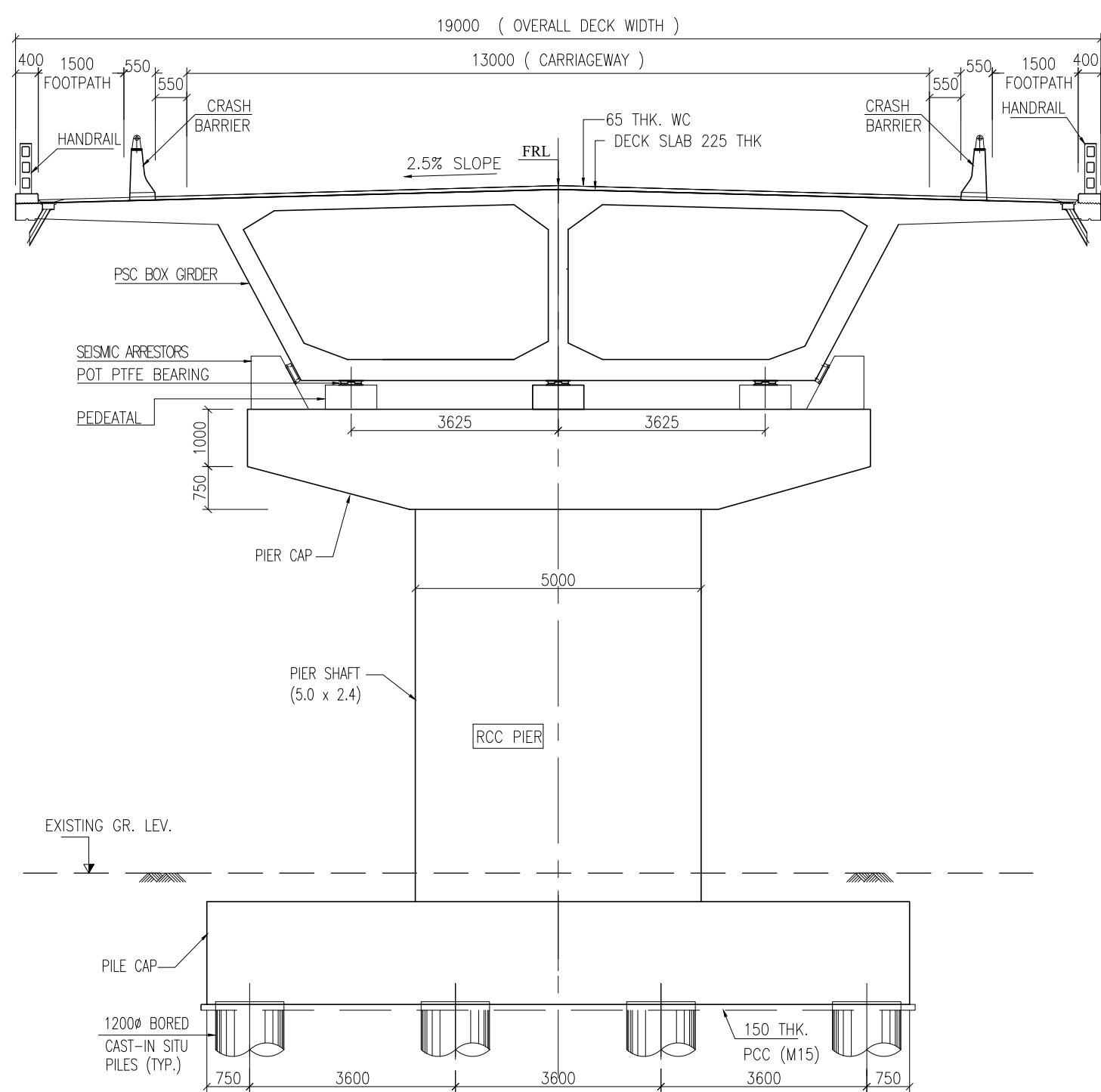
VOYANTS SOLUTIONS PVT LTD.
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Detailed Project Report

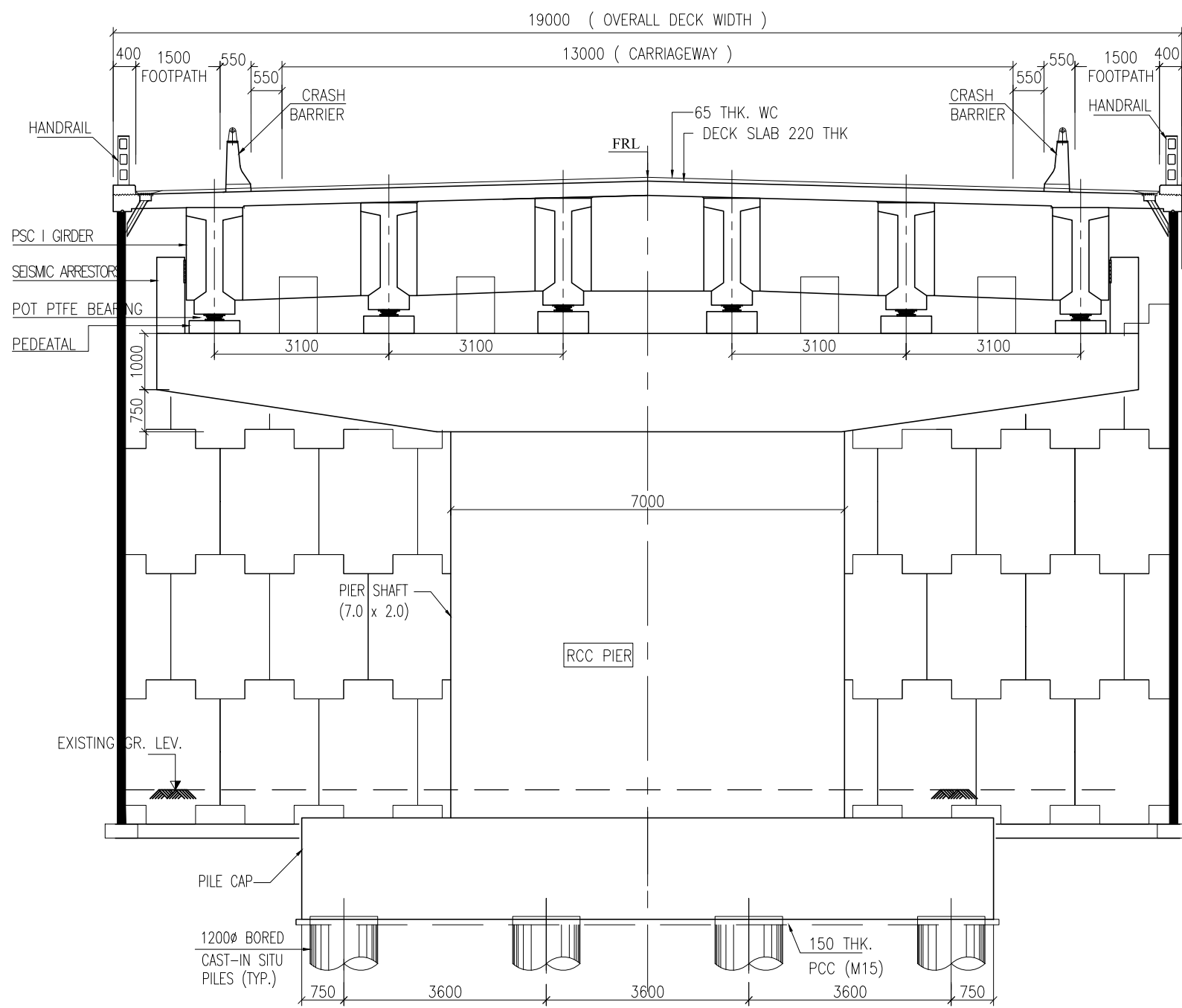
REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SLM	G. Das	SG	SKC
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
SCALE :	AS SHOWN	SHEET SIZE	A2

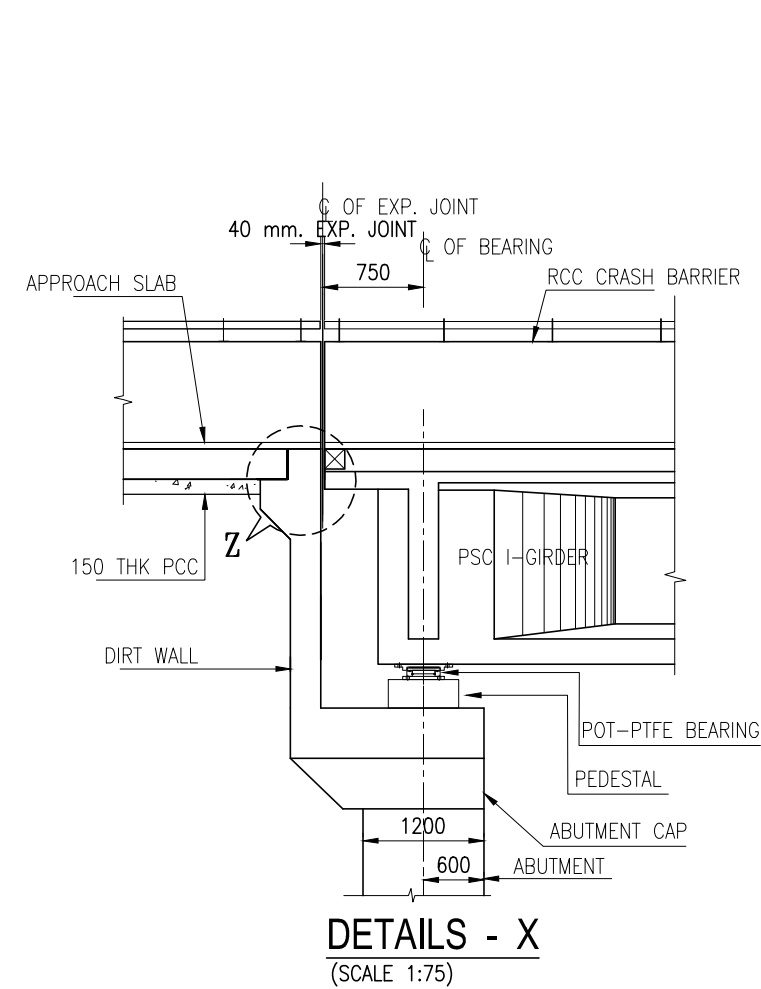
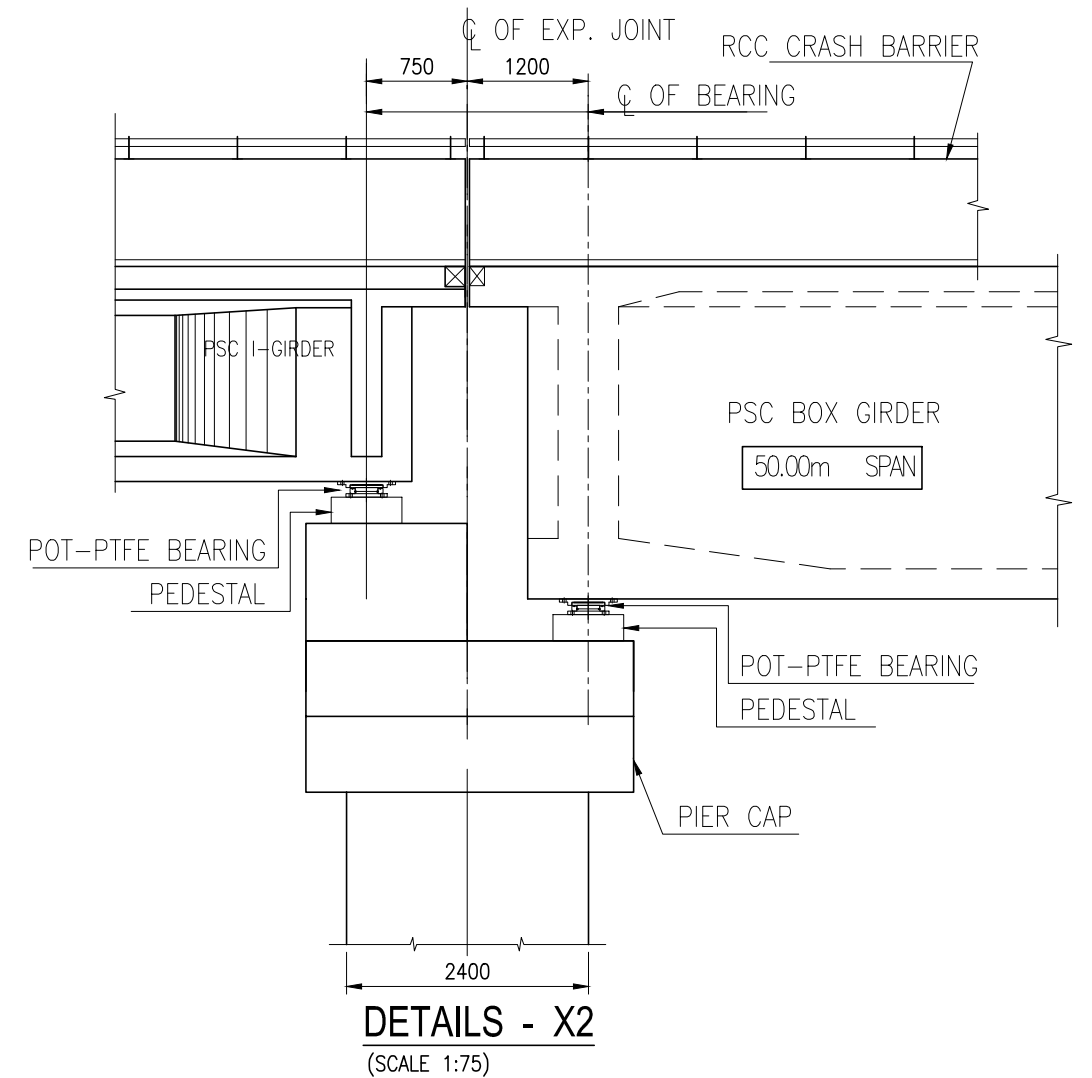
TITLE :	GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE ROB CUM ELEPHANT UNDERPASS AT Km. Ch.- 28+234.169		
DRG. No. :	VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01 (Sht. 5 of 6)		
REVISION:	R1	March, 2023	



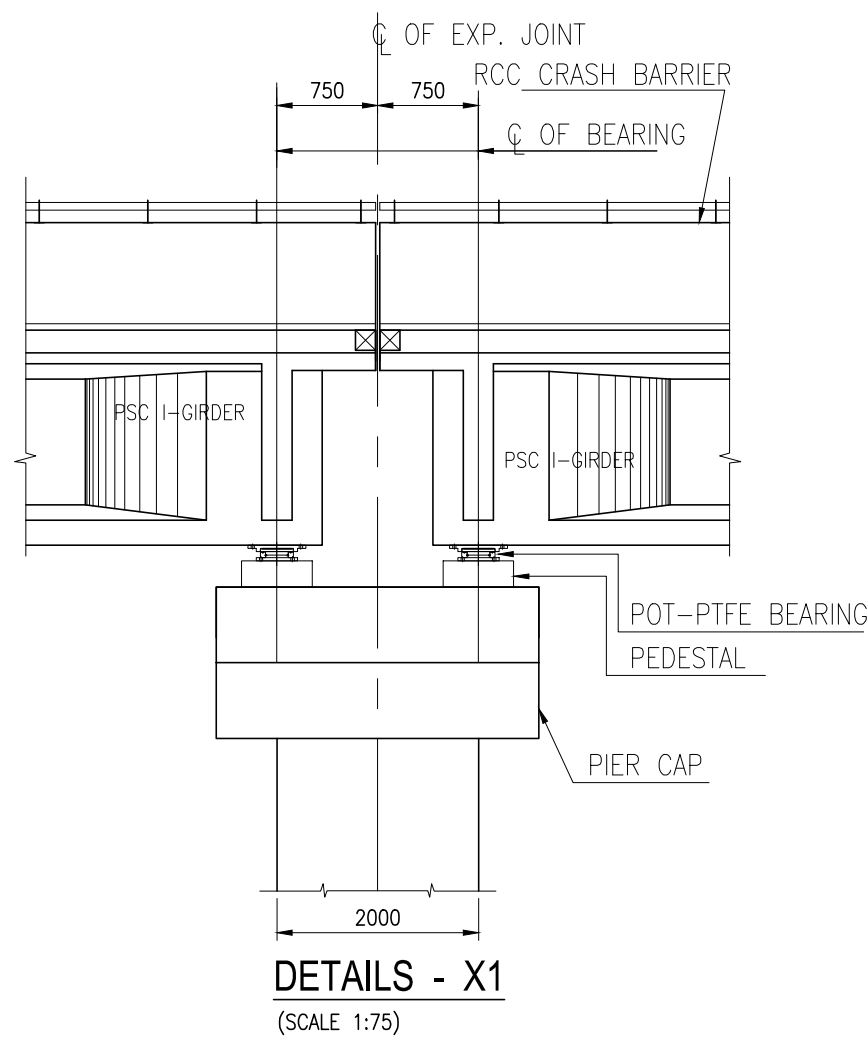
SECTION C - C
(SCALE 1:100)



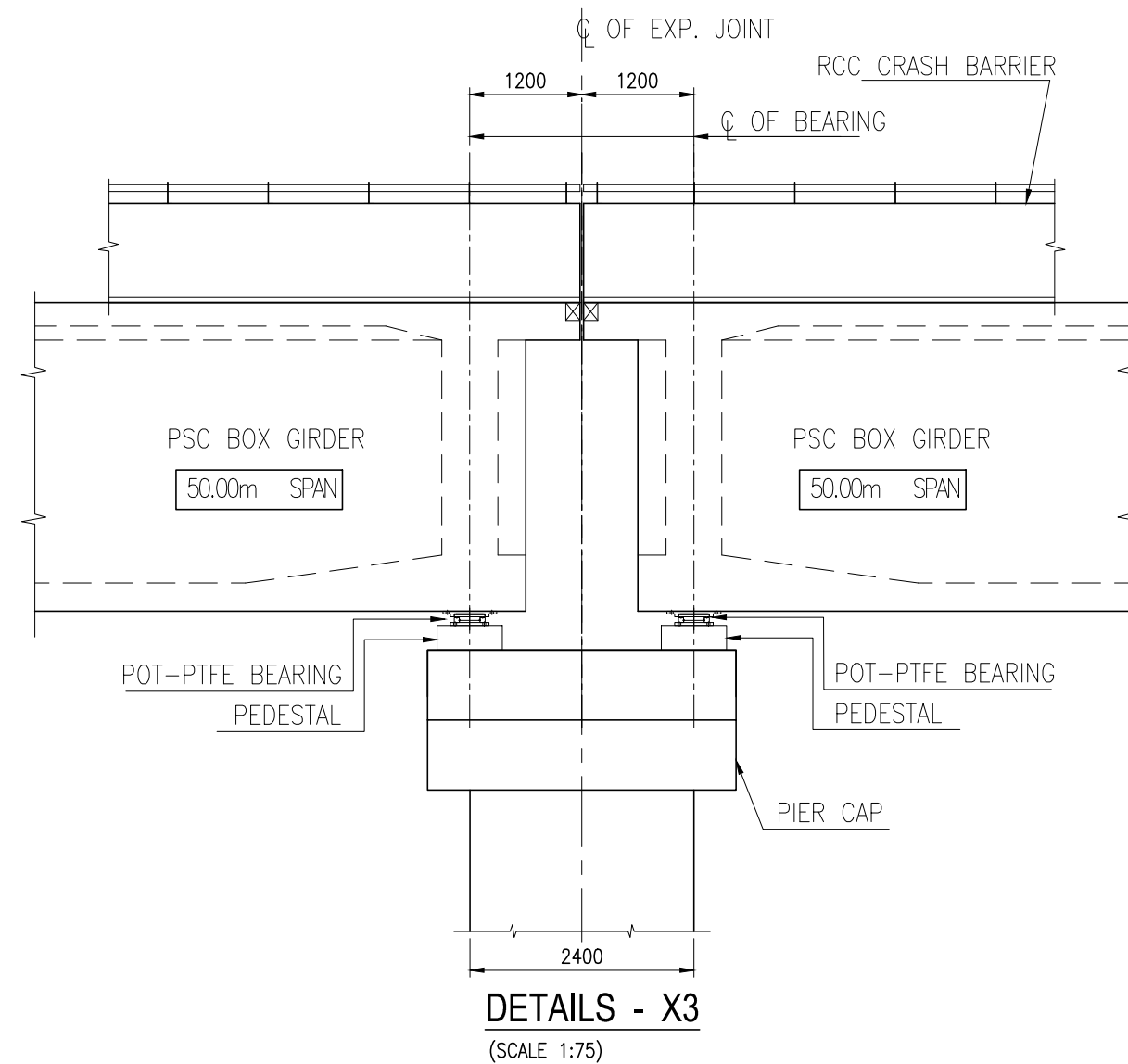
SECTION B - B
(SCALE 1:100)



DETAILS - X
(SCALE 1:75)



DETAILS - X1
(SCALE 1:75)



DETAILS - X3
(SCALE 1:75)

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GOVERNMENT OF INDIA**

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND
FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF
FREIGHT MOVEMENTS IN INDIA UNDER
BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



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Detaild Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SLM	G. Das	SG	SKC
SCALE :	AS SHOWN	SHEET SIZE	A2

TITLE :		
GENERAL ARRANGEMENT DRAWING OF MAJOR BRIDGE ROB CUM ELEPHANT UNDERPASS AT Km. Ch.- 28+234.169		
DRG. No. :	(Sht. 6 of 6)	
VSPL/1718-082/DPR/TRB/PKG-4/SEC-5/ROBEUP-01		
REVISION:	R1	March, 2023